# LOCATION HYDRAULIC REPORT

Florida Department of Transportation

District 1

S.R. 70 from U.S. 27 to C.R. 29

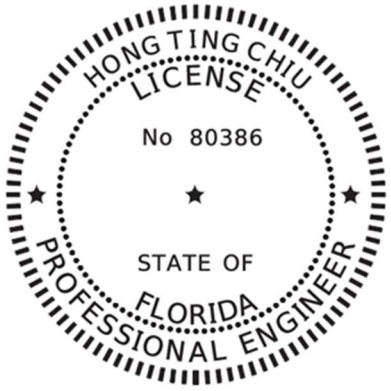
Highlands County, Florida

Financial Management Number: 414506-1-22-01 & 414506-4-52-01

ETDM Number: 3054

July 2026

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated May 26, 2022, and executed by Federal Highway Administration and FDOT.




This item has been digitally signed and sealed by Hong Ting Chiu, P.E. on the date adjacent to the seal.

Signature must be verified on any electronic copies.

# EXECUTIVE SUMMARY

The Florida Department of Transportation (FDOT), District One, is conducting a Project Development and Environment (PD&E) Study to evaluate the proposed widening of approximately 7.0 miles of State Road (S.R.) 70 from west of Jefferson Avenue/Placid Lakes Boulevard (Milepost (MP) 10.217) to east of County Road (C.R.) 29 (MP 17.245) in Highlands County, Florida.

The purpose of this PD&E study is to evaluate the need for capacity improvements for emergency evacuations, correct existing inadequate roadway cross-slope and substandard geometry, increase vehicular safety, and enhance economic competitiveness within a designated Rural Area of Economic Concern. This study provides engineering and environmental analysis and documentation to establish the optimal type and location of improvements to S.R. 70. The results of the study will aid Highlands County, FDOT District 1, and the FDOT Office of Environmental Management (OEM) in determining the type, preliminary design and location of the proposed improvements.

The existing S.R. 70 facility consists of a two-lane undivided facility with 12 feet (ft) travel lanes (one in each direction) and 10-ft shoulders (5-ft paved). Stormwater runoff is collected in roadside ditches and discharges to either offsite areas or existing stormwater management facilities (SMF). Within the limits of this report, from MP 14.490 to MP 17.245, existing stormwater management facilities are documented in a separate Pond Siting Report. There are five cross drains, ranging in size from 24-inch pipes to 30-inch pipes.

The proposed action is to increase the capacity of the existing two-lane undivided roadway by widening it to a four-lane divided roadway to accomplish the project purpose and need. Within the limits of this study, FDOT evaluated four project build alternatives with three project segments. The three segments are separated for analysis so this study can best address the local transportation needs. Segment A extends from Jefferson Avenue/Placid Lakes Boulevard to east of Placid View Drive, Segment B extends from east of Placid View Drive to Ekhoff Lane, and Segment C extends from Ekhoff Lane to C.R. 29.

The PD&E limits have been split into two Design segments with U.S. 27 as the breakline. The limits west of U.S. 27 (MP 10.217 to MP 14.490) are covered under 414506-3, while the limits east of U.S. 27 (MP 14.490 to MP 17.245) are covered under 414506-4. The limits west of U.S. 27 (MP 10.217 to MP 14.490) is concurrently being evaluated under a separate Location Hydraulic Report. This report only evaluates the limits east of U.S. 27 (MP 14.490 to 17.245).

The purpose of this Location Hydraulic Report is to address base floodplain encroachments resulting from the roadway improvements evaluated in the PD&E Study. In accordance with Executive Order 11988 "Floodplain Management", United States

Department of Transportation (U.S.D.O.T.) Order 5650.2, "Floodplain Management Protection", and Federal-Aid Policy Guide 23 Code of Federal Regulations (CFR) 650A, the floodplain must be protected. The intent of these regulations is to avoid or minimize highway encroachments within the 100-year base floodplains and to avoid supporting land use development that is incompatible with floodplain values. Based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs), there is no regulatory floodway within the limits of this project.

Floodplain impacts due to the proposed roadway widening and stormwater management facilities were analyzed and quantified based on the Interconnected Channel and Pond Routing (ICPR) model. The analysis uses a volumetric approach to estimate the approximate right-of-way needs to satisfy the floodplain storage requirements. Four floodplain compensation (FPC) sites are proposed to compensate for the floodplain encroachment in these areas. The report analyzed five cross drains in existing and proposed conditions to ensure no rise in headwater elevation. Based on coordination with Highlands County, the approach is consistent with the local floodplain management programs.

The proposed hydraulics will perform in a manner equal to or better than the existing conditions due to the mitigation measures including the FPC sites and replacement of the existing cross drain structures. The floodplain stages will not be increased, and the cross drains will have adequate capacity as to not impact headwaters nor cause backflow or roadway overtopping that is not already present in the existing condition. The project will not impact the current capability to provide emergency services or evacuation. Therefore, the level of encroachment is determined to be not significant.

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# 1.0 PROJECT OVERVIEW

## 1.1 Project Description

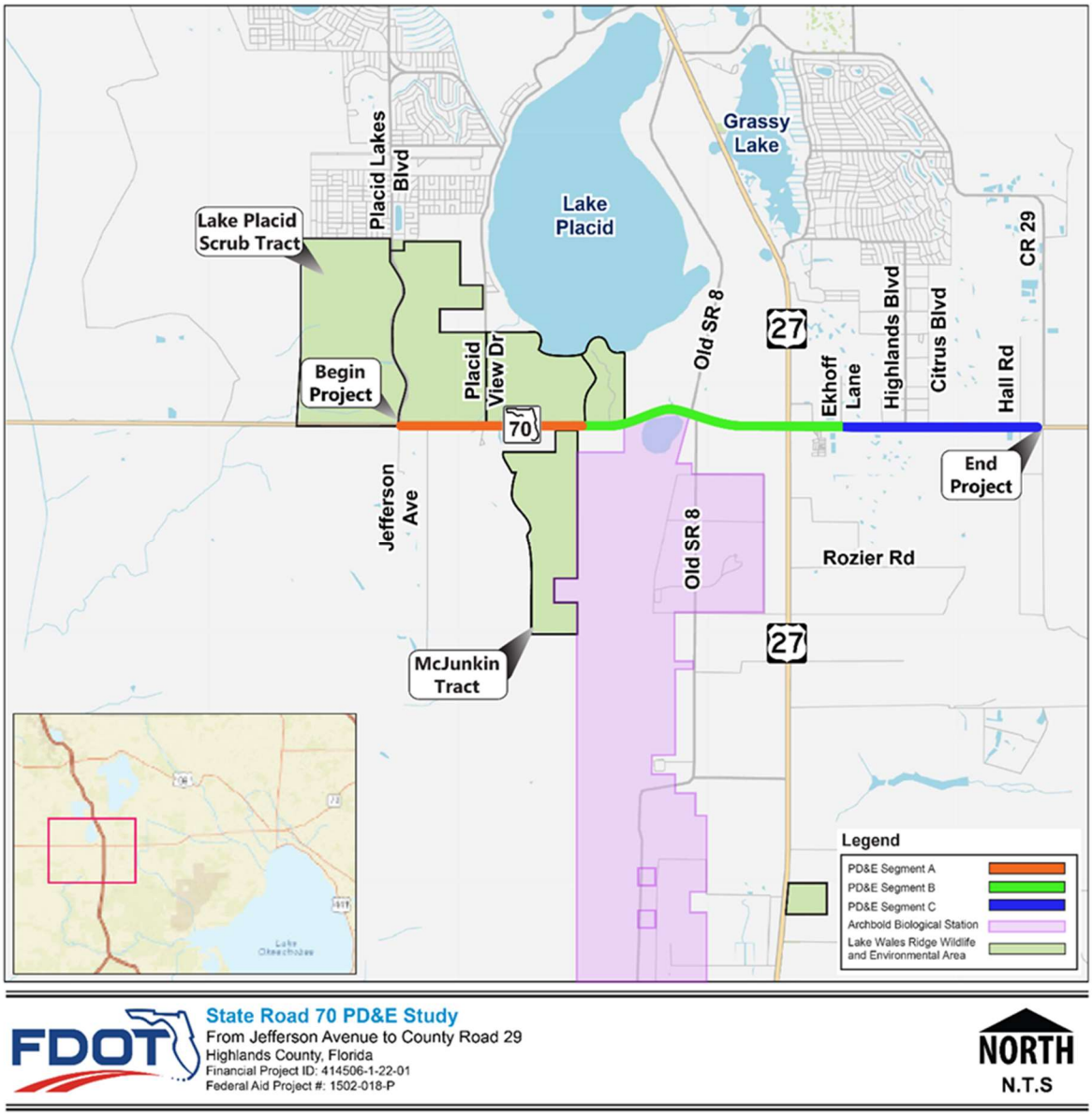
The Florida Department of Transportation (FDOT) is conducting a Project Development and Environment (PD&E) study to evaluate options for widening State Road (S.R.) 70 in Highlands County. The project limits cover approximately seven miles of S.R. 70 beginning west of Jefferson Avenue/Placid Lakes Boulevard (Milepost (MP) 10.217) and ending at County Road (C.R.) 29 (MP 17.245). Due to the length of the corridor and differing existing right-of-way (ROW) widths, the project was divided into three (3) segments to aid in the description of the corridor, the project limits and segments are shown in **Figure 1-1**. S.R. 70 is a Strategic Intermodal System (SIS) facility with daily truck percentages as high as 33% and it is a designated emergency evacuation route. The PD&E study limits have been divided into two Design segments due to concurrent PD&E and Design phases, with U.S. 27 as the breakline. 414506-3 is west of U.S. 27 and 414506-4 is east of U.S. 27.

The objective of the PD&E study is to evaluate widening the existing two-lane undivided roadway to a four-lane divided roadway. Project improvements will include wildlife crossing features, roadway signing and pavement markings, a shared use path, and the construction of stormwater management facilities, including treatment ponds and floodplain compensation sites.

The project was evaluated through FDOT's Efficient Transportation Decision Making (ETDM) process as project #3054. An ETDM Programming Screen Summary Report containing comments from the Environmental Technical Advisory Team (ETAT) was published on July 7, 2016. The ETAT evaluated the project's effects on various social, cultural, natural, and physical resources.

Upon completion, the study will meet all requirements of the National Environmental Policy Act of 1969 (NEPA) as administered for the FDOT by the FDOT Office of Environmental Management (OEM) and the requirements of other federal and state laws to qualify the proposed project for federal-aid funding.

**Figure 1-1: Project Location Map**




## 1.2 Purpose and Need

The purpose of this project is to improve operational conditions for emergency evacuations along the S.R. 70 corridor from Jefferson Avenue to C.R. 29. The Florida Division of Emergency Management (FDEM) Statewide Regional Evacuation Study Program determined the segment of S.R. 70 between United States (U.S.) 27 to east of the end project limits at C.R. 29 to be a critical segment with the longest vehicle queues among all roadways in the Central Florida region. The need for the project is based on the following primary and secondary criteria:

## PRIMARY CRITERIA

### OPERATIONAL CONDITIONS: Improve Operational Capacity for Emergency Evacuations

This widening project is anticipated to improve traffic operations along S.R. 70 where emergency evacuation traffic modeling performed by the FDEM identified the roadway to include a critical segment with highest vehicle queues. Although nearly all roadways will have extended vehicle queues during an emergency evacuation, S.R. 70 from U.S. 27 to east of the end project limit demonstrated evacuation vehicle queues lasting among the longest time periods in the region under multiple evacuation scenarios.

Delay caused by traffic congestion contributes to prolonged clearance times. According to the Florida Statewide Regional Evacuation Study Program, key transportation improvement projects can impact the anticipated evacuation clearance times. The widening of S.R. 70 is anticipated to reduce evacuating vehicle queues and thereby reduce the clearance time during an evacuation by:

- Increasing the capacity of the roadway to accommodate evacuating vehicles, and
- Improving shoulders and roadside slopes to meet current criteria in order to better accommodate removal of disabled vehicles which can obstruct evacuating vehicles during an emergency.

## SECONDARY CRITERIA

### ROADWAY DEFICIENCIES: Correct Existing Inadequate Cross-Section and Substandard Geometrics

The entire project segment of S.R. 70 is included in Florida's Strategic Intermodal System (SIS). These facilities generally support major flows of interregional, interstate, and international travel and commerce. Facilities on the SIS are subject to special standards and criteria for number of lanes, design speed, access, level of service and other requirements. For SIS facilities, the minimum design speed is 65 miles per hour (mph) within C1 Natural or C2 Rural context classifications, and 50 mph within a C3C (Suburban Commercial) context classification. Cross sectional elements and geometrics along the existing S.R. 70 corridor are inadequate for an SIS facility with these context classifications.

The existing S.R. 70 facilities exhibit the following:

- Shoulder widths are required to be a minimum of 10 feet (ft) in width with five-ft paved. Existing S.R. 70 includes substandard eight-foot (ft) shoulders with four-ft paved.
- Front slopes are required at 1:6 or flatter for fill heights up to five-ft. For significant sections of the project limits, S.R. 70 includes existing front slopes steeper than 1:6.
- A clear zone with 36-ft of recoverable terrain free of obstructions is required from through travel lanes. Deficient existing clear zones provide recoverable areas less than 18-ft in some segments.
- An offset of 12-ft is required to guardrail. Existing guardrail offsets are less than seven-ft from the travel lanes.

The improvements to S.R. 70 will widen the existing shoulders, flatten roadside slopes, extend clear zones, and increase offsets to guardrails to meet the respective criteria.

Further, the primary function of SIS highway components is to provide for efficient interregional traffic movements. Access is highly regulated to accommodate high-speed and high-volume facilities that support these movements. FDOT criteria state that controlled access segments of the SIS highway component shall be consistent with Access Class 2 or 3 of the Florida Administrative Code (FAC) Rule 14-97. These access classifications include restrictive medians which physically prevent vehicle crossings. The widening of S.R. 70 to a four-lane divided facility will introduce a median capable of restricting these movements.

**SAFETY: Increase Vehicular Safety**

Historical crash data was collected and evaluated as part of this study. Crash data was acquired for the time periods spanning from January 1, 2015 to December 31, 2019, and from January 1, 2020 to October 31, 2022.

For the five-year study period from 2015 through 2019, the crash data collected within the entire PD&E study limits showed a total of 82 crashes, including two (2) fatalities, 35 injury crashes (causing 92 injuries) and 45 property damage only crashes. The project portion from the western terminus near Lightsey Ranch Road to U.S. 27 had 37 crashes

and the calculated crash rate of 0.755 per million vehicle miles (MVM) in this section was less than the statewide average crash rate of 0.802 MVM for comparable facilities (6% lower). The portion from U.S. 27 to C.R. 29 had 45 crashes and the calculated crash rate of 1.590 MVM in this section exceeded the statewide average crash rate of 0.802 MVM (98% higher).

For the study period spanning January 1, 2020 – October 31, 2022, the crash data collected within the entire PD&E showed a total of 71 crashes, including nine (9) fatalities, 33 injury crashes (causing 66 injuries) and 33 property damage only crashes. The project portion from the western terminus near Lightsey Ranch Road to U.S. 27 had 40 crashes and the calculated crash rate of 1.441 MVM in this section exceeded the statewide average crash rate of 0.802 MVM for comparable facilities (80% higher). The section from U.S. 27 to C.R. 29 had 31 crashes and the calculated crash rate of 1.932 MVM in this section exceeded the statewide average crash rate of 0.802 MVM (141% higher).

**ECONOMIC DEVELOPMENT: Rural Area of Opportunity**

The Governor of the State of Florida pursuant to Florida Statute (FS) Section 228.0656(7) issued Executive Order 11-81 which included Highlands County among six counties identified as the South-Central Rural Area of Opportunity. The Florida Department of Economic Opportunity, Rural Economic Development Initiative (REDI) established a Sebring Highlands County Catalyst industrial development project adjacent to the Sebring Airport in Highlands County. The objective of the project is to create a significant economic effect to the entire region that will result in the development of high-wage and highly skilled jobs.

The REDI Sebring Highlands County Catalyst development is consistent with the stated goals for the Florida SIS which includes strengthening the linkage between transportation and economic development, assisting rural area of opportunity and enhancing economic competitiveness. The catalyst site connects to S.R. 70 via a second SIS highway component, U.S. 27, which intersects S.R. 70 within the project limits. The S.R. 70 corridor is the nearest east-west SIS highway component providing interregional connectivity from the catalyst site directly to both coasts.

As described above, the existing project limits of the S.R. 70 are deficient for multiple criteria governing SIS highway components. Widening improvements to S.R. 70 will

enhance its ability to function as a SIS highway component and accomplish SIS objectives for interregional transportation linked to economic development.

## 1.3 Existing Facility

### 1.3.1 Existing Typical Section

S.R. 70 is designated as a rural principal arterial highway, an SIS highway, and an evacuation route throughout the limits of this study. The existing S.R. 70 facility consists of a two-lane undivided roadway with 12-ft travel lanes, five-ft paved shoulders and open roadside ditches within varying existing ROW widths from 45-ft to 214-ft as shown in **Figure 1-2**.

**Figure 1-2: Existing Typical Section**




The MP ranges along with a description of the existing segments are as follows:

***Segment A – MP 10.217 to MP 12.349***

Segment A begins at the western project limit at Jefferson Avenue/Placid Lakes Boulevard (MP 10.217) and extends 2.1 miles to approximately 1.18 miles east of Placid View Drive (MP 12.349). The eastern half of Segment A is located within the Lake Placid urban area buffer beginning just west of Placid View Drive and extending 1.2 miles through the eastern limit of the segment. This segment contains a narrow, existing ROW corridor with a width ranging from 60-ft to 66-ft.

The entirety of Segment A runs parallel to the Florida Gas Transmission (FGT) gas pipeline easement, located approximately 30-ft south of the ROW, and to the north by both a Florida Power & Light (FPL) overhead transmission easement and the Lake Wales Ridge Wildlife and Environmental Area (LWRWEA). The properties bordering Segment A are a mix of agricultural, residential, and conservation parcels.

***Segment B – MP 12.349 to MP 15.090***

Segment B begins approximately 1.18 miles east of Placid View Drive (MP 12.349) and extends 2.7 miles to Ekhoff Lane (MP 15.090). Segment B is typically located within the Lake Placid urban area except for the section from just east of Old S.R. 8 through U.S. 27. This segment contains an existing ROW corridor with a typical width of 200-ft. There is an approximately 750-ft segment of the roadway located east of U.S. 27 where the existing ROW varies from 164 to 214-ft.

The western end of this segment is bordered to the south by an existing FGT gas pipeline easement. The FGT easement crosses underneath S.R. 70 just west of Nursery Lane and proceeds east along the northern side of S.R. 70 up until the Old S.R. 8 intersection. At Old S.R. 8, the FGT easement once again crosses underneath S.R. 70 and continues south along the southern leg of Old S.R. 8. There are also existing FPL overhead electric transmission lines located along the northern edge of the existing ROW throughout the entirety of the segment.

Segment B is bordered along its northern side by the LWRWEA for approximately 2,000-ft from the beginning segment limits to just west of Nursery Lane. Segment B is also bordered to the south by the Archbold Biological Station from just west of Nursery Lane to the South Central Florida Express (SCFE) railroad crossing (Crossing No. 627642Y).

The western limits of Segment B typically contain a combination of agricultural and conservation parcels while the eastern limits are a combination of residential, agricultural, and industrial parcels. Segment B also contains a major intersection with U.S. 27, which is a SIS component and a designated evacuation route.

***Segment C – MP 15.090 to MP 17.245***

Segment C begins at Ekhoff Lane (MP 15.090) and extends 2.2 miles to the eastern project limit at C.R. 29 (MP 17.245). Nearly all of Segment C is located within the Lake Placid urban area buffer. The urban buffer limits continue 1.9 miles from the western boundary of the segment to just east of Hall Road. The existing ROW is typically 200-ft in width from Ekhoff Lane to approximately 1,600-ft west of Hall Road (MP 16.691). The existing ROW varies from 45 to 65-ft from MP 16.691 to the end project limit at C.R. 29.

Segment C also contains existing FPL overhead electric transmission lines along the northern edge of the existing ROW from the beginning of the segment limit to approximately 400-ft east of Citrus Boulevard.

The adjacent land use along the north side of Segment C is predominantly low density residential. There is an existing parallel local road network providing access to most of these residential parcels. The adjacent land use along the south side of Segment C is predominantly citrus groves and other agricultural uses.

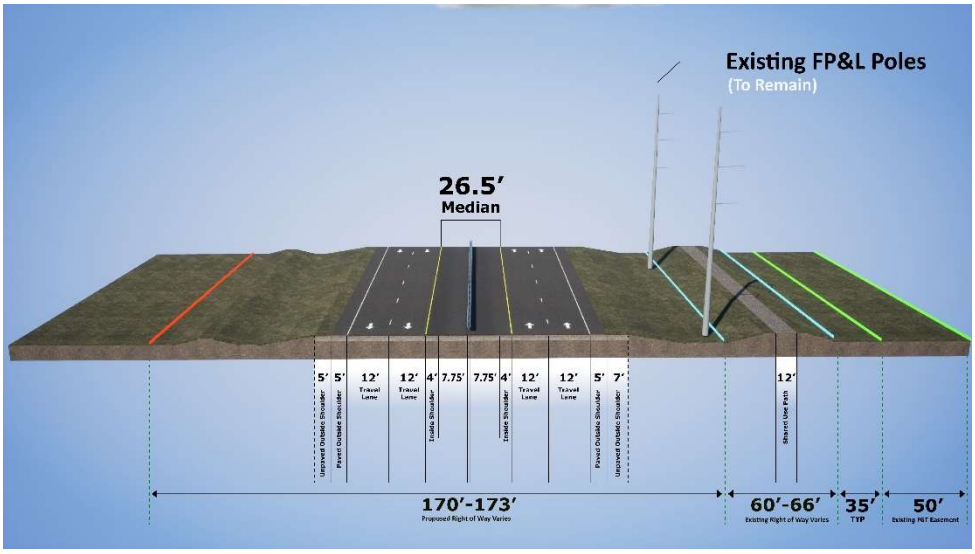
## 1.4 Proposed Improvements

To meet the Purpose and Need, the Preferred Alternative will widen S.R. 70 from two to four lanes throughout the study limits. A description of the proposed corridor through each segment is provided within the sections below. For more information regarding the Preferred Alternative please see the *Preliminary Engineering Report* (PER).

### 1.4.1 Segment A - MP 10.217 to MP 12.349

Segment A is a four-lane typical section with median guardrail that maintains the existing southern S.R. 70 ROW boundary and realigns the roadway to the far north (**Figure 1-3**) to avoid impacting the existing FP&L poles. The typical section consists of a 26.5-ft paved median. The roadway features 12-ft travel lanes, a 12-ft shared use path within the existing ROW, and open roadside ditches/linear stormwater treatment ponds. The design, target, and posted speeds are 65 mph. A median width variation has been approved for this segment. The proposed ROW for this typical section varies from 170 to 173-ft.

**Figure 1-3: Segment A Preferred Alternative Typical Section**

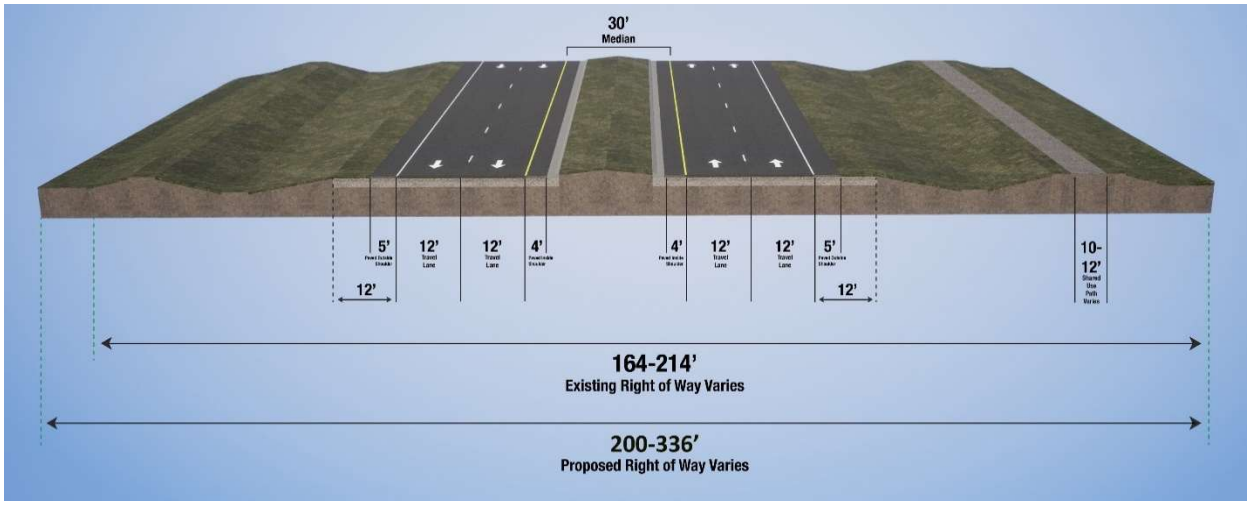



This alternative impacts the LWRWEA and existing FPL easement located on the north side of the roadway; however, this alternative avoids impacts to the FGT easement along the south side of the corridor. Based on coordination with Florida Fish and Wildlife Conservation (FWC), FDOT will mitigate for the loss of approximately 46.37 acres of impacts to the LWRWEA and further evaluate the wildlife crossings within this segment during the design phase of this project.

### 1.4.2 Segment B - MP 12.349 to MP 15.090

Segment B includes 12-ft travel lanes, a 30-ft median including four-ft paved median shoulders, and a Type E curb and gutter. A 10 to 12-ft shared use path is proposed on the south side of the roadway (**Figure 1-4**). The design, target, and posted speeds are 55 mph; a SIS design speed variation has been approved for this segment. The proposed ROW width is 200 to 336-ft. The existing two-lane roadway is offset to the north within the existing ROW; therefore, the roadway will be expanded to the north to avoid the gas lines on the south side.

**Figure 1-4: Segment B Preferred Alternative Typical Section**




### 1.4.3 Segment C - MP 15.090 to MP 17.245

Segment C has two typical sections, the first is from MP 15.090 to MP 16.845. This typical section consists of a 40-ft median, 12-ft travel lanes, and open roadside ditches. A 12-ft shared use path is included on the south side. The total proposed ROW width varies from 215 to 359-ft, (**Figure 1-5**) with the existing ROW being 45 to 200-ft. The widening will occur to the south. The design, target, and posted speeds are 65 mph.

From MP 16.845 to MP 17.245, there is a canal located on the south side of the existing corridor. The proposed typical section accommodates the canal in the proposed ROW. The total proposed ROW is 313 to 322-ft, widening to the south. The existing ROW is 45 to 65-ft. The typical section with the canal consists of a 40-ft median, 12-ft travel lanes, and open roadside ditches (**Figure 1-6**).

**Figure 1-5: Segment C Preferred Alternative Typical Section (MP 15.090 to MP 16.845)**

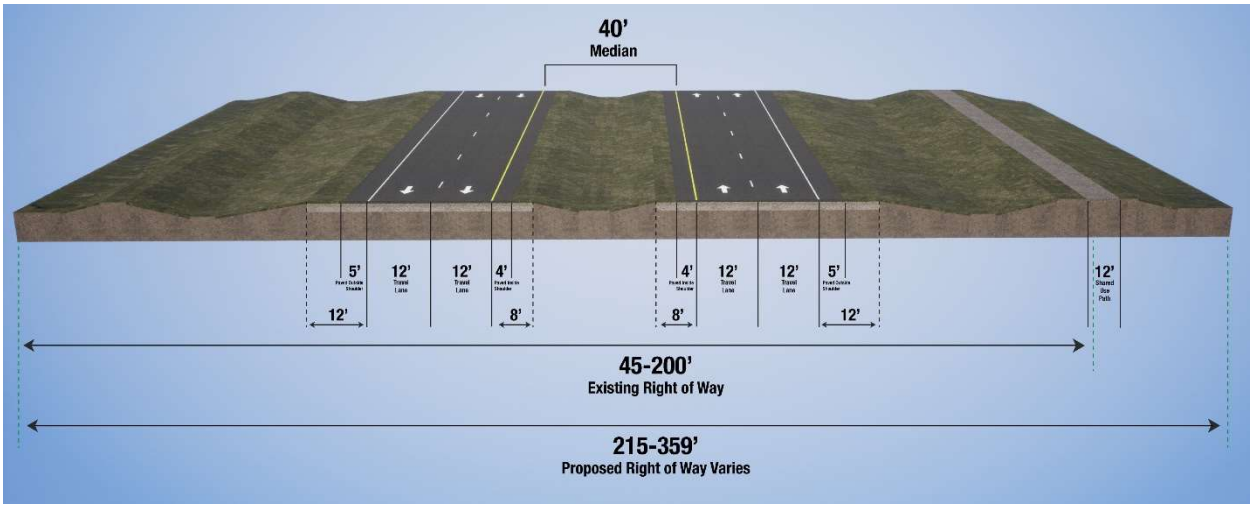
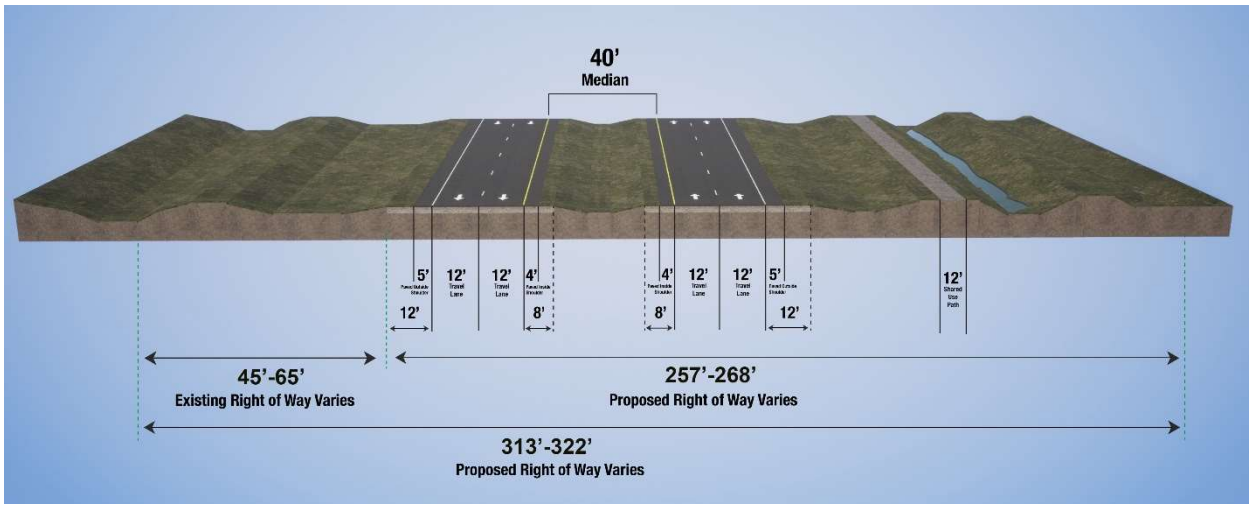



**Figure 1-6: Segment C Preferred Typical Section (MP 16.845 to MP 17.245)**



# 2.0 DRAINAGE REFERENCE AND RESOURCE INFORMATION

## 2.1 Data Sources

**Correspondence and Meetings (see Appendix G)**

- Southwest Florida Water Management District (SWFWMD) Pre-Application Meeting (May 2, 2024)
- Drainage Kickoff Meeting (May 13, 2024)
- Pond Siting Meeting (September 9, 2024)
- Access Management Meeting (October 29, 2024)
- Pond Siting Report (PSR) Checkpoint #1 Meeting (February 4, 2025)
- PSR Checkpoint #2 Meeting (March 7, 2025)
- PSR Checkpoint #3 Meeting (July 28, 2025)
- Local floodplain management agency (email dated July 8, 2026)

**Technical Reference and Regulation Material**

- FDOT Drainage Manual (January 2025)
- FDOT Drainage Design Guide (January 2024)
- SWFWMD Environmental Resource Permit (ERP) Applicant's Handbook Volume I (June 2024)
- SWFWMD ERP Applicant's Handbook Volume II (October 2025)

**Aerial Photography, Maps, Plan, and Survey**

- United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Highlands County Soil Survey (2024)
- FEMA FIRMs – Community-Panel No.: 12055C0529C and 12055C0533C, effective November 18, 2015
- 2023 FDOT Aerial Photography
- National Wetlands Inventory (NWI) Wetlands Data
- Highlands County Property Line (GIS)
- LiDAR

**Reports and Studies**

- PSR S.R. 70 from C.R. 29 to Lonesome Island Road (FPID 414506-5) under development concurrently
- Drainage Design Report – S.R. 25 (U.S. 27) at S.R. 70 Intersection Improvements (FPID 439827-1) (2019) by Dewberry Engineers Inc. – ERP Permit No. 25519.001
- SWFWMD RAI Response (FPID 194437-3-52-01) – ERP Permit No. 27810.000

# 3.0 EXISTING DRAINAGE CHARACTERISTICS

## 3.1 Watershed Descriptions

The limits of this Location Hydraulic Report are from U.S. 27 (MP 14.490) to east of C.R. 29 (MP 17.245) which covers a portion of Segment B and all of Segment C. These limits are covered under design segment 414506-4, while the remaining portion from MP 10.217 to MP 14.490, covered under 414506-3, is concurrently being evaluated in a separate Location Hydraulic Report.

The existing drainage patterns were determined using USGS and LiDAR data. The off-site drainage basins are shown in the exhibits in **Appendix B**. The roadway drains through roadside ditches to the five existing cross drains within the project limits. Refer to **Table 3-1** for a description of the existing cross drains.

**Table 3-1 Existing Cross Drain Summary**

| No | Station | Type | Existing Description |
|---|---|---|---|
| CD-9 | STA. 1279+20 | Pipe Culvert | (1) 24" Pipe |
| CD-10 | STA. 1303+51 | Pipe Culvert | (1) 30" Pipe |
| CD-11 | STA. 1318+21 | Pipe Culvert | (1) 24" Pipe |
| CD-12 | STA. 1335+24 | Pipe Culvert | (1) 24" Pipe |
| CD-13 | STA. 1365+25 | Pipe Culvert | (1) 24" Pipe |

## 3.2 Soil Characteristics

A review of the USDA NRCS Highlands County Soil Survey was conducted to assess the general soil characteristics within the project area. The survey provides hydrologic soil group (HSG) classifications, estimated seasonal high groundwater table (SHGWT) depths, and drainage characteristics that influence floodplain compensation (FPC) performance. **Table 3-2** summarizes the primary soil types, HSG classifications, and estimated SHGWT depths for each drainage basin. A soils map is included in **Appendix B**.

**Table 3-2 Project Soil Conditions**

| Begin STA | End STA | Map Unit | Soil Name | Hydrologic Soil Group | Estimated SHGWT Depth (ft) |
|---|---|---|---|---|---|
| 1266+52 | 1312+49 | 1 | Paola Sand | A | >6.67 |
| | | 9 | Astatula Sand | A | >6.67 |
| | | 45 | Paola-Basinger Sand | A | >6.67 |
| 1312+49 | 1354+84 | 45 | Paola-Basinger Sand | A | >6.67 |
| 1354+84 | 1428+72 | 8 | Immokalee Sand | B/D | 0.5 - 1.5 |
| | | 13 | Felda Fine Sand | A/D | >6.67 |
| | | 20 | Samsula Muck | A/D | 0.0 |
| | | 21 | Hontoon Muck | A/D | 0 |
| | | 26 | Tequesta Muck | A/D | 0 |
| | | 45 | Paola-Basinger Sand | A | >6.67 |

## 3.3 Geotechnical Investigation

To support the FPC site selection process, Tierra, Inc. conducted geotechnical borings at each proposed FPC location. These investigations provided site-specific verification of SHGWT elevations.

The preliminary geotechnical borings data, along with the Highlands County Soil Survey, is included in **Appendix F** for reference.

## 3.4 FEMA Floodplain Information

Within the project limits, S.R. 70 traverses a diversity of landforms. The Lake Wales Ridge is a geographical region with higher terrain on the western portion of the project near U.S. 27. The Lake Wales Ridge is a wavy topographic landscape dispersed with small, isolated depressions. At the eastern edge of the ridge there is a sharp incline just west of L-7 Ranch Road that flattens out into the expansive Okeechobee Plains on the eastern portion of the project.

The applicable FEMA FIRMs (community-panel numbers 12055C0529C and 12055C0533C, effective November 18, 2015) show the 100-year flood hazard areas along the project corridor are designated as Zone A, which means that no base flood elevations have been determined. Refer to the FEMA FIRM in **Appendix B**. When compared with the topography, the FEMA flood hazard areas do not include all the isolated depressions along the project corridor, and since no base flood elevations have

been determined, an Interconnected Channel and Pond Routing (ICPR) model was created and used to determine the 100-year floodplain elevation for the project area.

## 3.5 Flooding Problems

FDOT Heartland Operations Center personnel was contacted by the previous study to acquire information related to past problems or flooding along the project corridor. FDOT Heartland Operations previously confirmed that there were no complaints of flooding on S.R. 70 along the job limits. One flooding complaint near the Sunshine RV Park east of US 27 was mentioned during the project's kick-off meeting. Refer to **Appendix G** for the kick-off meeting notes and correspondence. In 2024, Sunshine RV Park was issued a permit (ERP 1523.004) from SWFWMD to expand an existing pond to provide additional stormwater storage and reduce internal flooding. The constructed pond discharges to the FDOT right-of-way, and outfalls to the existing 30-inch cross drain (CD-10) east of Sunshine RV Park. The design will need to maintain the hydraulic connection from the pond outfall within the FDOT right-of-way to the cross drain.

# 4.0 PROPOSED DRAINAGE DESIGN

Stormwater runoff from S.R. 70 will be collected and conveyed to the stormwater management facilities through roadside ditches and/or storm drain systems. These stormwater management facilities will provide water quality and water quantity. The design of the drainage and stormwater facilities will comply with the standards set forth by the FDOT Drainage Manual, FDOT Drainage Design Guide, and the SWFWMD ERP Applicant's Handbook Volume II. For more information regarding the proposed drainage design, refer to the S.R. 70 PD&E Study Pond Siting Report.

## 4.1 Floodplain Impacts

Impacts to the 100-year floodplain will occur in three ways:

1. Transverse impacts resulting from the cross-drain extensions and bridge widening.
2. Longitudinal impacts resulting from the road widening in areas of 100-year floodplain.
3. Impacts due to stormwater management facilities located adjacent to wetland and storage areas.

## 4.2 Cross Drains

The five existing cross drains have been analyzed in the existing and proposed conditions using the modeling program HY-8.

All flow rates for the 50-year, 100-year, and 500-year design events were collected from the ICPR model results. The maximum inflow rate to the upstream node was used in the cross drain analysis. Size, upstream and downstream inverts were based on collected survey data. Tailwater conditions were based on the peak stage at the downstream node of each cross drain for each design storm.

Due to the increased pipe lengths, the proposed cross drains have been upsized to perform hydraulically in a manner equal to or greater than the existing condition, and backwater surface elevations are not expected to increase. Refer to **Table 4-1** for a comparison of the pre-condition and post-condition headwater stages. As a result, there will be no significant change in flood risk. The results are summarized in the Flood Data Table in **Table 4-2**. Refer to **Appendix C** for the Cross Drain Analysis and **Appendix E** for cross drain photos.

**Table 4-1 Cross Drain Headwater Elevation**

| Cross Drain | Existing Structures | Proposed Structures | Headwater Elevation (feet) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Pre-Condition | | | Post-Condition | | |
| | | | 50-Yr Storm | 100-Yr Storm | 500-Yr Storm | 50-Yr Storm | 100-Yr Storm | 500-Yr Storm |
| CD-9 | 1 - 24" RCP | 1 - 30" RCP | 123.93 | 124.49 | 125.43 | 123.72 | 124.06 | 125.56 |
| CD-10 | 1 - 30" RCP | 1 - 36" RCP | 119.32 | 119.91 | 123.38 | 119.04 | 119.41 | 121.66 |
| CD-11 | 1 - 24" RCP | 1 - 30" RCP | 116.00 | 116.36 | 117.43 | 115.91 | 116.17 | 116.95 |
| CD-12 | 1 - 24" RCP | 1 - 30" RCP | 110.99 | 111.76 | 114.64 | 110.66 | 111.08 | 112.76 |
| CD-13 | 1 - 24" RCP | 1 - 30" RCP | 98.65 | 100.02 | 104.70 | 98.42 | 99.34 | 102.68 |

**Table 4-2 Flood Data Table**

| Cross Drain | Design Flood | | Base Flood | | Overtopping Flood | | | | Greatest Flood | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2% Prob. | 50 YR Freq. | 1% Prob. | 100 YR Freq. | | | | | | | | |
| | Discharge | Stage | Discharge | Stage | Discharge | Stage | Prob % | Freq. Yr. | Discharge | Stage | Prob % | Freq. Yr. |
| CD-9 | 10.36 | 123.72 | 14.69 | 124.06 | 29.57 | 125.54 | 0.22 | 456 | 30.48 | 125.56 | 0.2 | 500 |
| CD-10 | 24.32 | 119.04 | 32.39 | 119.41 | | | | | 62.98 | 121.66 | 0.2 | 500 |
| CD-11 | 8.23 | 115.91 | 10.36 | 116.17 | | | | | 16.82 | 116.95 | 0.2 | 500 |
| CD-12 | 16.65 | 110.66 | 21.75 | 111.08 | | | | | 36.31 | 112.76 | 0.2 | 500 |
| CD-13 | 15.48 | 98.42 | 20.25 | 99.34 | | | | | 34.87 | 102.68 | 0.2 | 500 |

## 4.3 Floodplain Compensation

The 100-year floodplain elevations and areas were determined by the ICPR model. There are 49 sub-basins in the ICPR model, and the proposed roadway improvements will impact the 100-year floodplain within seven of the 49 sub-basins.

Floodplain mitigation alternatives included in this report include an analysis based on the "cup for cup" compensation methodology.

**Considered Alternatives**

**"Cup for Cup" Approach:** Floodplain encroachment volumes from the proposed roadway section were estimated between the SHGWT elevation and 100-year floodplain elevation for each sub-basin. Encroachment volumes were based on the topographical survey taken within the right-of-way. Impacts to a group of sub-basins which were hydraulically connected were compensated for within a single FPC alternative. This

limited the required amount of FPC sites and allowed for the combination of those sites where impacts were minor. The bottom elevation of the FPC sites were based on estimated SHGWT elevations from geotechnical borings and surveyed high water marks (stain lines). Refer to **Table 4-3** for a summary of the estimated floodplain impact volumes.

**Modeling:** Runoff volume from the impacted areas will be redirected away from the floodplains to the stormwater management facilities. This will result in a reduction of the floodplain impact caused by the roadway fill. Therefore, modeling will be utilized to demonstrate no impacts or reduced impacts are associated with the proposed roadway improvements. Updates to the ICPR model will be performed in the permitting phase to refine, reduce, or eliminate FPC sites. A preliminary comparison of the redirected runoff volume and the encroachment volume has been performed, see **Appendix D**.

## Table 4-3 Floodplain Impact Summary

| Floodplain Name | ICPR Sub-basin Name | Floodplain Location (CL Construction) | | 100-year Floodplain Elevation (ft, NAVD) | Impact Volume (ac-ft) | Preferred Floodplain Compensation Site |
|---|---|---|---|---|---|---|
| | | From Station | To Station | | | |
| 1301 | 106 | 1298+20 | 1313+14 | 119.19 | 4.02 | FPC 1301A |
| | 107 | 1297+05 | 1314+70 | 118.65 | 0.43 | |
| 1303 | 109 | 1318+00 | 1325+30 | 115.99 | 1.98 | FPC 1303A |
| | 108 | 1314+70 | 1320+15 | 115.99 | 0.18 | |
| 1306 | 109A | 1324+11 | 1335+00 | 114.06 | 0.27 | FPC 1306A |
| | 109B | 1325+30 | 1335+00 | 112.86 | 0.18 | |
| 1309 | 119 | 1370+39 | 1377+14 | 80.00 | 1.08 | FPC 1309C |
| N/A | 105 | 1293+42 | 1297+04 | 117.91 | 0.00 | No impacts/ No FPC |
| | 106A | 1301+32 | 1305+60 | 119.55 | 0.00 | |
| | 106B | 1297+10 | 1301+32 | 119.19 | 0.00 | |
| | 107A | 1298+26 | 1303+21 | 117.81 | 0.00 | |
| | 107B | 1300+63 | 1304+88 | 116.99 | 0.00 | |
| | 107C | 1302+49 | 1306+86 | 118.21 | 0.00 | |
| | 109C | 1314+06 | 1323+27 | 116.20 | 0.00 | |
| | 112 | 1333+33 | 1346+55 | 109.21 | 0.00 | |
| | 126A | 1399+28 | 1414+00 | 44.08 | 0.00 | |
| | 127C | 1399+25 | 1408+53 | 44.07 | 0.00 | |
| | 120A | 1381+29 | 1387+92 | 48.52 | 0.00 | |
| | 126 | 1399+29 | 1414+00 | 42.80 | 0.00 | |
| | 122 | 1391+32 | 1395+69 | 46.30 | 0.00 | |
| | 124 | 1395+69 | 1399+29 | 45.15 | 0.00 | |

## Table 4-3 Floodplain Impact Summary (Continued)

| Floodplain Name | ICPR Sub-basin Name | Floodplain Location (CL Construction) | | 100-year Floodplain Elevation (ft, NAVD) | Impact Volume (ac-ft) | Preferred Floodplain Compensation Site |
|---|---|---|---|---|---|---|
| | | From Station | To Station | | | |
| N/A | 101 | 1267+61 | 1280+21 | See runoff and encroachment volume comparison in Appendix D. | | |
| | 102 | 1266+48 | 1280+15 | | | |
| | 103 | 1280+21 | 1293+42 | | | |
| | 104 | 1279+85 | 1293+43 | | | |
| | 110 | 1320+14 | 1328+23 | | | |
| | 111 | 1328+23 | 1328+23 | | | |
| | 114 | 1346+55 | 1357+05 | | | |
| | 115 | 1351+58 | 1358+45 | | | |
| | 115A | 1346+21 | 1351+58 | | | |
| | 116 | 1357+05 | 1366+51 | | | |
| | 117 | 1357+07 | 1370+39 | | | |
| | 123 | 1391+32 | 1395+69 | | | |
| | 123A | 1391+32 | 1396+80 | | | |
| | 125 | 1395+69 | 1399+28 | | | |
| | 125A | 1396+83 | 1399+28 | | | |
| | 127 | 1399+28 | 1412+57 | | | |
| | 127A | 1399+28 | 1407+65 | | | |
| | 127B | 1407+65 | 1412+28 | | | |
| | 100 | 1412+28 | 1271+68 | Floodplain within ROW/ No FPC | | |
| | 113 | 1334+99 | 1343+22 | Permitted pond/ No FPC | | |
| | 109D | 1314+69 | 1318+20 | | | |
| | 118 | 1366+51 | 1391+32 | Seepage slope/ No FPC | | |
| | 120 | 1375+96 | 1391+32 | | | |
| | 120B | 1386+22 | 1391+32 | | | |
| | 128 | 1412+57 | 1428+77 | Outside project limits. Floodplain encroachment evaluated in segment to the east. | | |
| | 128A | 1413+43 | 1428+55 | | | |
| | 128B | 1414+00 | 1428+67 | | | |
| | 128C | 1412+82 | 1415+96 | | | |

### 4.3.1 Floodplain Compensation Site 1301A

Floodplain 1301 includes ICPR model sub-basins 106 and 107. The roadway corridor will encroach upon the 100-year floodplain within these sub-basins and impact 4.45 acre-ft of floodplain. Additionally, the floodplain encroachment volumes by the proposed offsite SMF 1301 alternatives A, B, and C, is 0.10 acre-ft, 0.32 acre-ft, and 0.89 acre-ft, respectively. Refer to the floodplain calculations in **Appendix D** and the floodplain map in **Appendix B**.

FPC 1301A is an offsite floodplain compensation site located in tree crops northeast of the S.R. 70 and Ekhoff Lane intersection near the western end of Flagler Street. The site is directly adjacent to the S.R. 70 right-of-way.

The site-specific data provided by Tierra, Inc. estimates the SHGWT to be at elevation 117.65 ft. The site provides 4.96 acre-ft of floodplain compensation. The FPC site can also compensate for the floodplain impacts caused by either SMF 1301A or SMF1302B. SMF 1302C would be located on the same site as FPC 1301A, therefore, if SMF 1302C is selected as the preferred pond site then FPC 1301A is no longer an option. For more information regarding the proposed drainage design, refer to the S.R. 70 PD&E Study Pond Siting Report.

### 4.3.2 Floodplain Compensation Site 1303A

Floodplain 1303 includes ICPR model sub-basins 108 and 109. The roadway corridor will encroach upon the 100-year floodplain within these sub-basins and impact 2.16 acre-ft of floodplain. Refer to the floodplain calculations in **Appendix D** and the floodplain map in **Appendix B**.

FPC 1303A is an offsite floodplain compensation site located in tree crops south of the S.R. 70 and Broward Avenue intersection near a freshwater marsh. The site is directly adjacent to the S.R. 70 right-of-way. FPC 1303A was the only alternative evaluated given the impact is primarily located south of S.R. 70 surrounding the impacted depression.

The site-specific data provided by Tierra, Inc. estimates the SHGWT to be at elevation 114.5 ft. The site provides 2.41 acre-ft of floodplain compensation.

### 4.3.3 Floodplain Compensation Site 1306A

Floodplain 1306 includes ICPR model sub-basins 109A and 109B. The roadway corridor will encroach upon the 100-year floodplain within these sub-basins and impact 0.45 acre-ft of floodplain. Refer to the floodplain calculations in **Appendix D** and the floodplain map in **Appendix B**.

FPC 1306A is an offsite floodplain compensation site located in tree crops south of the S.R. 70 and Highlands Boulevard intersection near a freshwater marsh. The site is directly

adjacent to the S.R. 70 right-of-way. FPC 1306A was the only alternative evaluated given the impact is primarily located south of S.R. 70 surrounding the impacted depression.

The site-specific data provided by Tierra, Inc. estimates the SHGWT to be at elevation 108.5 ft. The site provides 0.76 acre-ft of floodplain compensation.

### 4.3.4 Floodplain Compensation Site 1309C

Floodplain 1309 includes ICPR model sub-basin 119. The roadway corridor will encroach upon the 100-year floodplain within the sub-basin and impact 1.08 acre-ft of floodplain. Refer to the floodplain calculations in **Appendix D** and the floodplain map in **Appendix B**.

FPC 1309C is an offsite floodplain compensation site located in a rural residential lot southeast of the S.R. 70 and Bear Road intersection. Additionally, the proposed FPC 1309C area is located within a parcel that currently contains a residential property. Implementation of the FPC design will require the relocation or removal of this house to accommodate the proposed earthworks. A review of the topographic survey indicates that the site exhibits varying ground elevations across the parcel. This variation in levels will be an important consideration during detailed design to ensure that flood storage volumes are accurately balanced and that the proposed works integrate smoothly with existing ground levels. There is no designated FEMA shape within this parcel.

The site-specific data provided by Tierra, Inc. did not encounter ground water down to an elevation of 85.7 ft. Therefore, the average of two borings taken near S.R. 70 were used to estimate the SHGWT at an elevation of 77.2 ft. The site provides 1.14 acre-ft of floodplain compensation.

## 4.4 Project Classification

The floodplain is located in a non-urbanized, low density land use area with encroachments classified as “minimal encroachments”. Minimal encroachments on a floodplain occur when there is floodplain involvement, but the impacts on human life, transportation facilities, and natural and beneficial floodplain values are not significant and can be resolved with minimal efforts. Normally, these minimal efforts to address the impacts will consist of applying the Department’s drainage design standards and following the Water Management District’s procedures to achieve results that will not increase or significantly change the flood elevations and/or limits.

## 4.5 Risk Evaluation

There is no change in flood “Risk” associated with this project. The floodplain is located in a non-urbanized, low density area with encroachments classified as “minimal encroachments”.

## 4.6 PD&E Manual Requirements with Minimal Encroachment

The following items must be addressed per Part 2, Chapter 13.2.2.5, FDOT Project Development & Environment Manual, to document the anticipated impacts and risks associated with encroachment classified as "minimal encroachments".

a. General description of the project including location, length, existing and proposed typical sections, drainage basins, and cross drains.
   ***Refer to Section 1 through 4 of this report.***
b. Determination of whether the proposed action is in the base floodplain.
   ***The proposed action is in the base floodplain. Refer to Section 3 and 4 of this report.***
c. The history of flooding of the existing facilities and/or measures to minimize any impacts due to the proposed improvements;
   ***Refer to Section 3.5 of this report. The proposed floodplain compensation sites are summarized in Table 4-3. The size of the cross drains within the project study limits have been increased to minimize impacts and sizes are reflected in Table 4-1.***
d. Determination of whether the encroachment is longitudinal or transverse, and if it is a longitudinal encroachment, an evaluation and discussion of practicable avoidance alternatives.
   ***There will be both longitudinal and transverse impacts to the floodplain due to the proposed increase in the number of travel lanes. The steepest allowable roadway encroachment slopes will be used to minimize longitudinal impacts. The extension or replacement of the existing cross drains will produce transverse floodplain impacts. With the existing roadway bisecting these areas of floodplain, there are no economically feasible avoidance alternatives.***
e. The practicability of avoidance alternatives and/or measures to minimize impacts.
   ***The project design will make every effort to minimize the floodplain impacts resulting from the required roadway fill. The steepest allowable roadway embankment slopes will be used within the floodplain areas to minimize the floodplain impacts. Floodplain impacts will be compensated by constructing floodplain compensation sites. Four floodplain compensation sites are identified for the proposed roadway widening.***
f. Impact of the project on emergency services and evacuation.

***The proposed cross drains and floodplain compensation areas will perform hydraulically in a manner equal to or greater than the existing condition, and backwater surface elevations are not expected to increase. As a result, there will be no significant change in flood risk, and there will not be a significant change in the potential for interruption or termination of emergency service or in emergency evacuation routes.***

g. Impacts of the project on the base flood, likelihood of flood risk, overtopping, location of overtopping, backwater.

   ***The proposed cross drains and floodplain compensation areas will perform hydraulically in a manner equal to or greater than the existing condition, and backwater surface elevations are not expected to increase. As a result, there will be no significant change in flood risk or overtopping.***

h. Determination of the impact of the project on regulatory floodways, if any, and documentation of coordination with FEMA and local agencies to determine the requirements for the project to be developed consistent with the regulatory floodway.

   ***There is no regulatory floodway within the limits of the project.***

i. The impacts on natural and beneficial floodplain values, and measures to restore and preserve these values (this information may also be addressed as part of the wetland impact evaluation and recommendations).

   ***The S.R. 70 PD&E Study Pond Siting Report and Natural Resources Evaluation Report addresses these items and are prepared under a separate cover.***

j. Consistency of the project with the local floodplain development plan or the land use elements in the Local Government Comprehensive Plan (LGCP), and the potential of encouraging development in the base floodplain.

   ***The project will remain consistent with local floodplain development plans. The project will not support base floodplain development that is incompatible with existing floodplain management programs. See correspondence with the local floodplain management agencies in Appendix G.***

k. Measures to minimize flood-plain impacts associated with the project, and measures to restore and preserve the natural and beneficial flood-plain values impacted by the project.

   ***The project design will make every effort to minimize the floodplain impacts resulting from the required roadway fill. The steepest allowable roadway embankment slopes will be used within the floodplain areas to minimize the***

***floodplain impacts. Floodplain impacts will be compensated by constructing floodplain compensation sites. Four floodplain compensation sites are identified for the proposed roadway widening.***

l. A map showing project, location, and impacted floodplains. A FIRM Map should be used if available. If not, other maps (e.g., US Geological Survey (USGS), USACE, Soil Conservation Service (SCS), Bureau of Land Management, U.S. Forest Service, or best available information from the WMDs) may be used. Copies of applicable maps should be included in the appendix.

***A copy of the FIRM and watershed maps are included in Appendix B.***

m. Results of any risk assessments performed.

***The proposed cross drains and floodplain compensation areas will perform hydraulically in a manner equal to or greater than the existing condition, and backwater surface elevations are not expected to increase. As a result, there will be no significant change in flood risk.***

# 5.0 CONCLUSIONS

The proposed improvement will perform hydraulically in a manner equal to or greater than the existing condition, and backwater surface elevations are not expected to increase. Thus, there will be no significant adverse impacts on natural and beneficial floodplain values. There will be no significant change in flood risk, and there will not be a significant change in the potential for interruption or termination of emergency service or emergency evacuation routes. Therefore, it has been determined that this encroachment is not significant.

# APPENDIX A

# CONCEPT PLANS

## INDEX OF RFP CONCEPT PLANS


| SHEET NO. | SHEET DESCRIPTION |
|---|---|
| 1 | KEY SHEET |
| 1A | NOTES TO REVIEWERS |
| 2 | SIGNATURE SHEET |
| 3-10 | DRAINAGE MAPS |
| 11-14 | TYPICAL SECTION |
| 15-22 | TYPICAL SECTION DETAILS |
| 23-24 | PROJECT LAYOUT |
| 25 | GENERAL NOTES |
| 26-47 | ROADWAY PLANS |
| 48-69 | ROADWAY PROFILES |
| 70-91 | SHARED USE PATH PROFILES |
| 92-102 | MEDIAN OPENING DETAILS |
| 103 | ROADWAY SOIL SURVEY |
| 104-156 | CROSS SECTIONS |
| 157-166 | TEMPORART TRAFFIC CONTROL PLAN |


# STATE OF FLORIDA
# DEPARTMENT OF TRANSPORTATION

# RFP CONCEPT PLANS

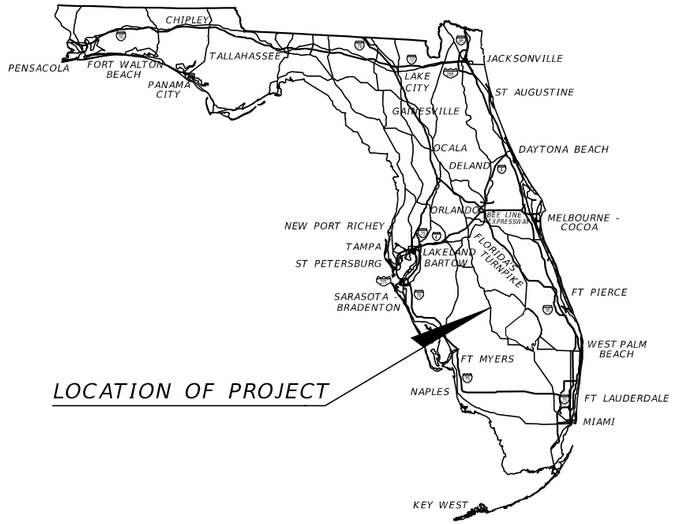
## FINANCIAL PROJECT ID: 414506-4-52-01

(FEDERAL FUNDS)

HIGHLANDS COUNTY (09060)

STATE ROAD NO. 70

WIDENING FROM M.P. 14.490 TO M.P. 17.245




| | |
|---|---|
| PROJECT LOCATION URL: | https://tinyurl.com/muvc9vbb |
| PROJECT LIMITS: | BEGIN M.P. 14.490 – END M.P. 17.245 |
| EXCEPTIONS: | NONE |
| BRIDGE LIMITS: | N/A |
| RAILROAD CROSSING: | N/A |

RFP CONCEPT PLAN
INITIAL SUBMITTAL:
FEBRUARY 7, 2025


RFP CONCEPT PLANS
DEVELOPED BY:

BRETT M. HENSLEY, P.E. NO.: 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256
(904) 596-7987


FDOT PROJECT MANAGER:

JOSEPH M. LAUK, P.E.

| CONSTRUCTION CONTRACT NO. | FISCAL YEAR | SHEET NO. |
|---|---|---|
| | 27 | 1 |

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

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## NOTES TO REVIEWERS:

1. THE TECHNICAL MEMORANDUM FOR DETERMINATION OF SEASONAL HIGH WATER TABLE AND BASE CLEARANCE ELEVATION DATED OCTOBER 4, 2024 IS THE BASIS OF THE BASE CLEARANCE WATER ELEVATION LINE DEPICTED IN THE PROFILE VIEW. THE PRELIMINARY ROADWAY PGL PROVIDES 3 FEET OF BASE CLEARANCE FOR THE BASE CLEARANCE WATER ELEVATION LINE. FURTHER PGL REFINEMENT WILL BE INCORPORATED AS DESIGN SURVEY, POND SITING REPORT, AND POND DESIGN UPDATES BECOME AVAILABLE.

2. THE BEGIN/END PROJECT LIMITS SHOWN IN THE PLANS MATCH THE PD&E LIMITS FOR 414506-1-22-01. THE BEGIN/END CONSTRUCTION LIMITS HAVE BEEN ADJUSTED BASED ON COORDINATION WITH ADJACENT SEGMENTS.

3. THE TYPICAL SECTION PACKAGE WAS APPROVED ON 6/18/2024.

4. THE PAVEMENT DESIGN PACKAGE WAS SUBMITTED FOR APPROVAL ON 12/4/2024 AND IS AWAITING FINAL DISTRICT APPROVAL.

5. THE INITIAL RFP CONCEPT PLANS FOR SEGMENT 14 (FPID 414506-5-52-01) WAS SUBMITTED ON 12/20/2024. THE INITIAL RFP CONCEPT PLANS SUBMITTAL FOR SEGMENT 12 (FPID 414506-3-52-01) IS SCHEULDED FOR 3/7/2025. IT IS ASSUMED THAT SEGMENT 13 WIL BE LET CONCURRENTLY WITH SEGMENTS 12 AND 14 AS PART OF AN ADJUSTED SCORE DESIGN-BUILD.

6. THE CROSS SECTION OF THE REALIGNED SOUTHERN CANAL IS INTENDED TO MATCH EXISTING. THE SLOPE RATIOS, BOTTOM DEPTH, BERM HEIGHT, AND CROSS SECTIONAL AREA ARE A BEST FIT OF THE EXISTING CANAL. PROPOSED EARTHWORK AND TCE REQUIREMENTS WILL BE ADJUSTED IN PHASE II PLANS TO AVOID OPPORTUNITY TO TRAP WATER AT THE BACK OF BERM TIE-DOWN.

7. DESIGN VARIATIONS:
   - DESIGN SPEED (SEE DESIGN REPORT FOR DETAILS)
   - MEDIAN OPENING SPACING (SEE DESIGN REPORT FOR DETAILS)
   - OUTSIDE FLUSH SHOULDER FOR HIGH-SPEED CURB AND GUTTER ROADWAYS (SEE DESIGN REPORT FOR DETAILS)

8. THE PROPOSED GROUND SURFACE FOR DRIVEWAYS AND PONDS WILL BE PROVIDED WITHIN THE PHASE II PLANS.

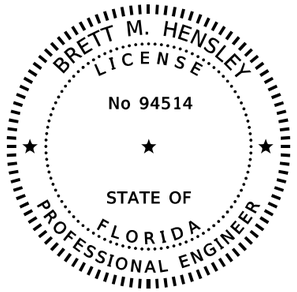
9. THE PROPOSED POND RIGHT-OF-WAY DEPICTED IS BASED ON THE PRELIMINARY PD&E LOCATIONS. THE POND SITING PROCESS IS ONGOING AND RIGHT-OF-WAY WILL BE UPDATED IN FUTURE SUBMITTALS.

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

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | NOTES TO REVIEWERS | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | 1A |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |



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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

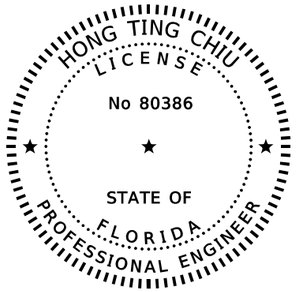
ON THE DATE ADJACENT TO THE SEAL.

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HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256
BRETT M. HENSLEY, P.E. NO. 94514

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.


| SHEET NO. | SHEET DESCRIPTION |
|---|---|
| 1 | KEY SHEET |
| 2 | SIGNATURE SHEET |
| 11-14 | TYPICAL SECTION |
| 15-22 | TYPICAL SECTION DETAILS |
| 23-24 | PROJECT LAYOUT |
| 25 | GENERAL NOTES |
| 26-47 | ROADWAY PLANS |
| 48-69 | ROADWAY PROFILES |
| 70-91 | SHARED USE PATH PROFILES |
| 92-102 | MEDIAN OPENING DETAILS |
| 104-156 | CROSS SECTIONS |
| 157-166 | TEMPORART TRAFFIC CONTROL PLAN |


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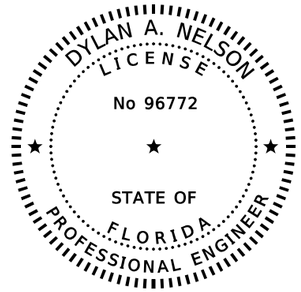
ON THE DATE ADJACENT TO THE SEAL.

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HNTB CORPORATION
201 N FRANKLIN STREET
SUITE 1200
TAMPA, FL 33602
HONG TING CHIU, P.E. NO. 80386

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.


| SHEET NO. | SHEET DESCRIPTION |
|---|---|
| 2 | SIGNATURE SHEET |
| 3-10 | DRAINAGE MAPS |


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TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FL 33637
DYLAN A. NELSON, P.E. NO. 96772

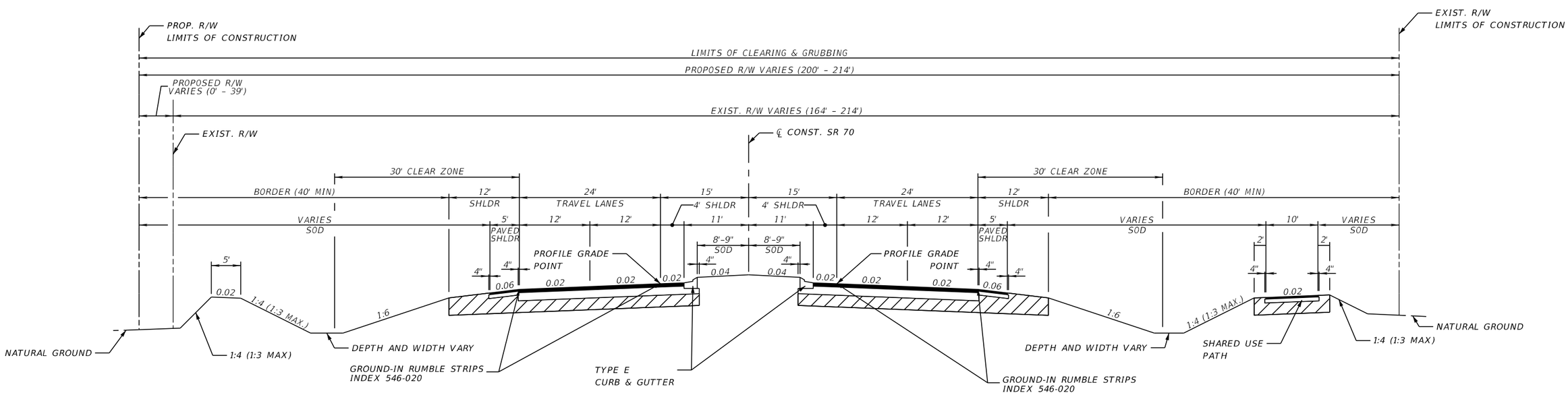
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.


| SHEET NO. | SHEET DESCRIPTION |
|---|---|
| 2 | SIGNATURE SHEET |
| 103 | ROADWAY SOIL SURVEY |


| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | SIGNATURE SHEET | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>P.E. LICENSE NUMBER 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD<br>SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |



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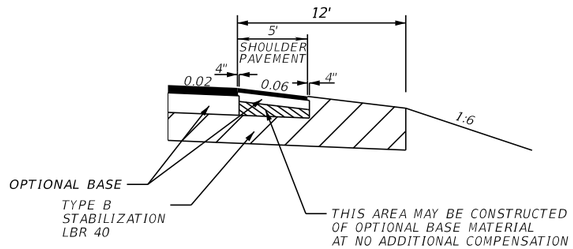



# TYPICAL SECTION NO. 1

## SR 70

## ℄ CONST. SR 70

## STA. 1271+50.32 TO STA. 1298+27.57




SHOULDER PAVEMENT DETAIL

### TRAVEL LANES, TURN LANES, & INSIDE PAVED SHOULDERS (3-FT BASE CLEARANCE)

OPTIONAL BASE GROUP 9
TYPE SP (TRAFFIC E) (PG 76-22) (3.50")
FC-5 (PG 76-22) (0.75")

### TRAVEL LANES, TURN LANES, & INSIDE PAVED SHOULDERS (2-FT BASE CLEARANCE)

OPTIONAL BASE GROUP 12
TYPE SP (TRAFFIC E) (PG 76-22) (3.50")
FC-5 (PG 76-22) (0.75")

### SHARED USE PATH

OPTIONAL BASE GROUP 1
TYPE SP (TRAFFIC B) (1.50")

### OUTSIDE PAVED SHOULDERS (3-FT BASE CLEARANCE)

OPTIONAL BASE GROUP 2
TYPE SP (TRAFFIC E) (PG 76-22) (1.50")
FC-5 (PG 76-22) (0.75")

### OUTSIDE PAVED SHOULDERS (2-FT BASE CLEARANCE)

OPTIONAL BASE GROUP 4
TYPE SP (TRAFFIC E) (PG 76-22) (1.50")
FC-5 (PG 76-22) (0.75")

### SIDE STREET TURNOUTS

OPTIONAL BASE GROUP 3
TYPE SP (TRAFFIC B) (1.50")

### U-TURN BULB OUT CONSTRUCTION

OPTIONAL BASE GROUP 9
TYPE SP (TRAFFIC E) (PG 76-22) (3.50")

### TRAFFIC DATA

| | | |
|---|---|---|
| CURRENT YEAR | = 2022 | AADT = 5600 |
| ESTIMATED OPENING YEAR | = 2030 | AADT = 7400 |
| ESTIMATED DESIGN YEAR | = 2050 | AADT = 12500 |

K = 9.5% D = 59.9% T = 32.0%
DESIGN HOUR T = 16.0%
DESIGN SPEED = 55 MPH
POSTED SPEED = 55 MPH
TARGET SPEED = 55 MPH

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD
BRETT M. HENSLEY, P.E.
P.E. LICENSE NUMBER 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

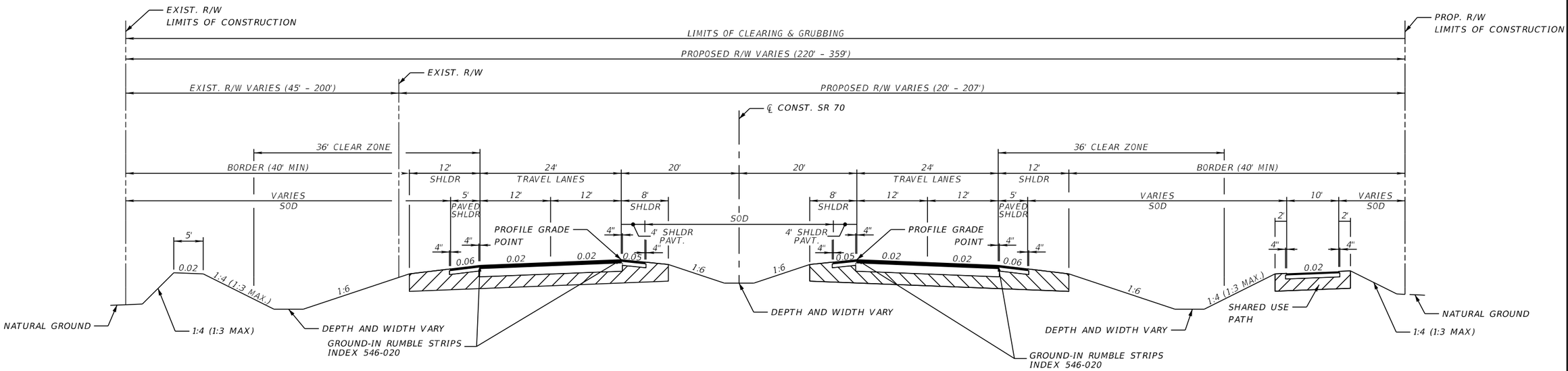
TYPICAL SECTION

SHEET NO.

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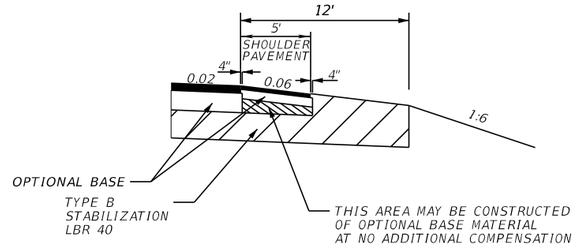
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# TYPICAL SECTION NO. 2

## SR 70

## ℄ CONST. SR 70
## STA. 1298+27.57 TO STA. 1303+63.00
## STA. 1371+50.00 TO STA. 1391+47.98




SHOULDER PAVEMENT DETAIL

### TRAFFIC DATA

| | | |
|---|---|---|
| CURRENT YEAR | = 2022 | AADT = 5600 |
| ESTIMATED OPENING YEAR | = 2030 | AADT = 7600 |
| ESTIMATED DESIGN YEAR | = 2050 | AADT = 12500 |

K = 9.5% D = 59.9% T = 32.0%
DESIGN HOUR T = 16.0%
DESIGN SPEED = 65 MPH
POSTED SPEED = 65 MPH
TARGET SPEED = 65 MPH

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD
BRETT M. HENSLEY, P.E.
P.E. LICENSE NUMBER 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

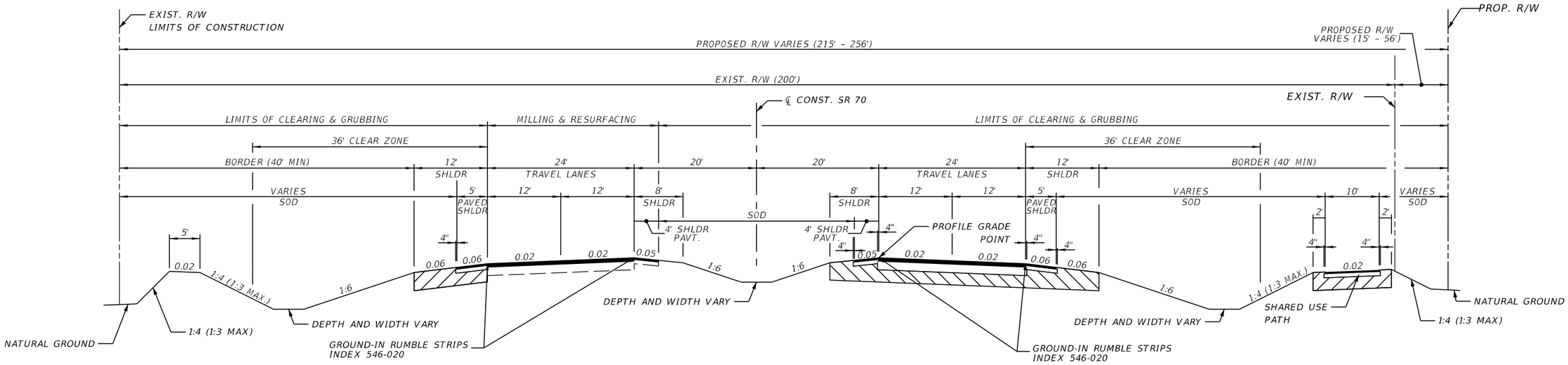
TYPICAL SECTION

SHEET NO.

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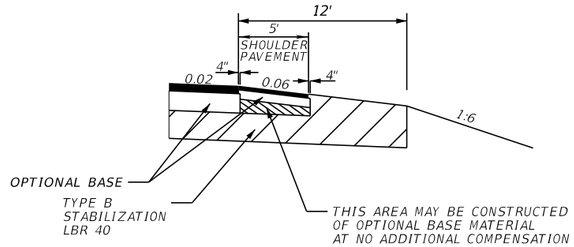
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# TYPICAL SECTION NO. 3

## SR 70

## ℄ CONST. SR 70
## STA. 1303+63.00 TO STA. 1371+50.00




SHOULDER PAVEMENT DETAIL

### TRAVEL LANE MILLING & RESURFACING

MILL FOR DEPTH (3.75")
TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

### PAVED SHOULDER MILLING & RESURFACING

MILL FOR DEPTH (3.75")
TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

NOTE: SEE TYPICAL SECTION DETAIL SHEET (4 – 6) FOR CROSS SLOPE CORRECTION DETAILS.

### TRAFFIC DATA

| | | |
|---|---|---|
| CURRENT YEAR | = 2022 | AADT = 5600 |
| ESTIMATED OPENING YEAR | = 2030 | AADT = 7600 |
| ESTIMATED DESIGN YEAR | = 2050 | AADT = 12500 |

K = 9.5% D = 59.9% T = 32.0%
DESIGN HOUR T = 16.0%
DESIGN SPEED = 65 MPH
POSTED SPEED = 65 MPH
TARGET SPEED = 65 MPH

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD
BRETT M. HENSLEY, P.E.
P.E. LICENSE NUMBER 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

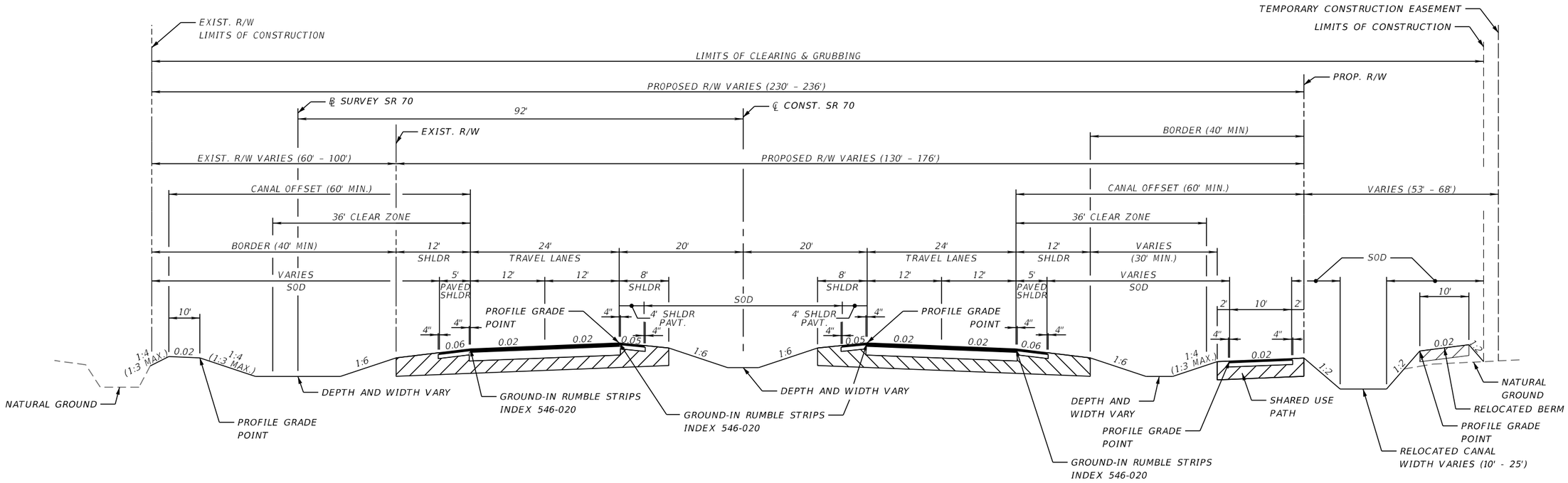
TYPICAL SECTION

SHEET NO.

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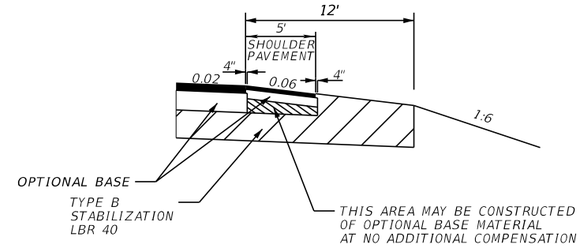
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# TYPICAL SECTION NO. 4

## SR 70

## ℄ CONST. SR 70
## STA. 1391+47.98 TO STA. 1414+00.00




SHOULDER PAVEMENT DETAIL

### TRAFFIC DATA

| | | |
|---|---|---|
| CURRENT YEAR | = 2022 | AADT = 5600 |
| ESTIMATED OPENING YEAR | = 2030 | AADT = 7600 |
| ESTIMATED DESIGN YEAR | = 2050 | AADT = 12500 |

K = 9.5% D = 59.9% T = 32.0%
DESIGN HOUR T = 16.0%
DESIGN SPEED = 65 MPH
POSTED SPEED = 65 MPH
TARGET SPEED = 65 MPH

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD
BRETT M. HENSLEY, P.E.
P.E. LICENSE NUMBER 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

TYPICAL SECTION

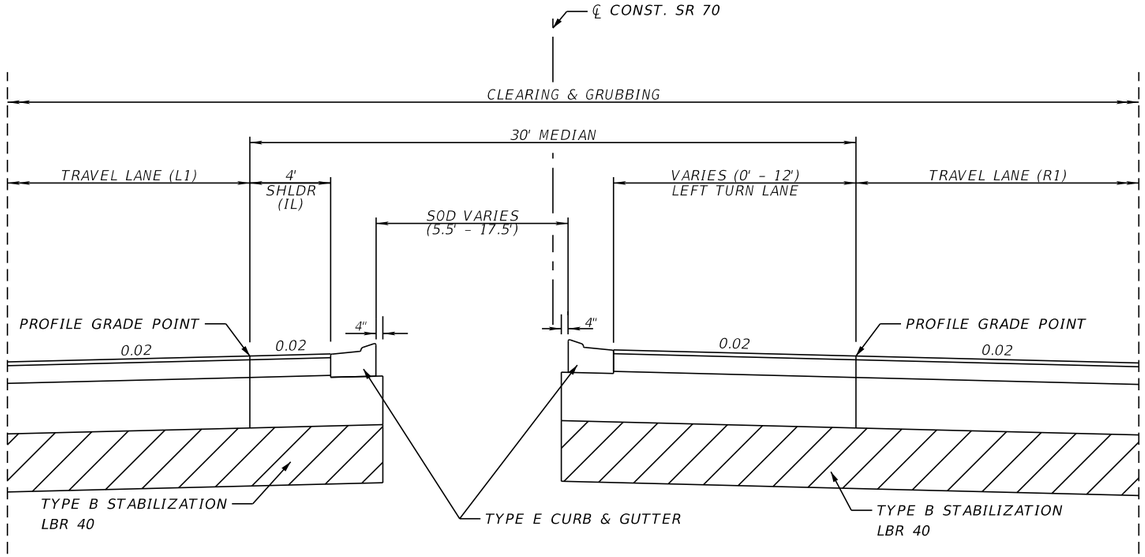
SHEET NO.

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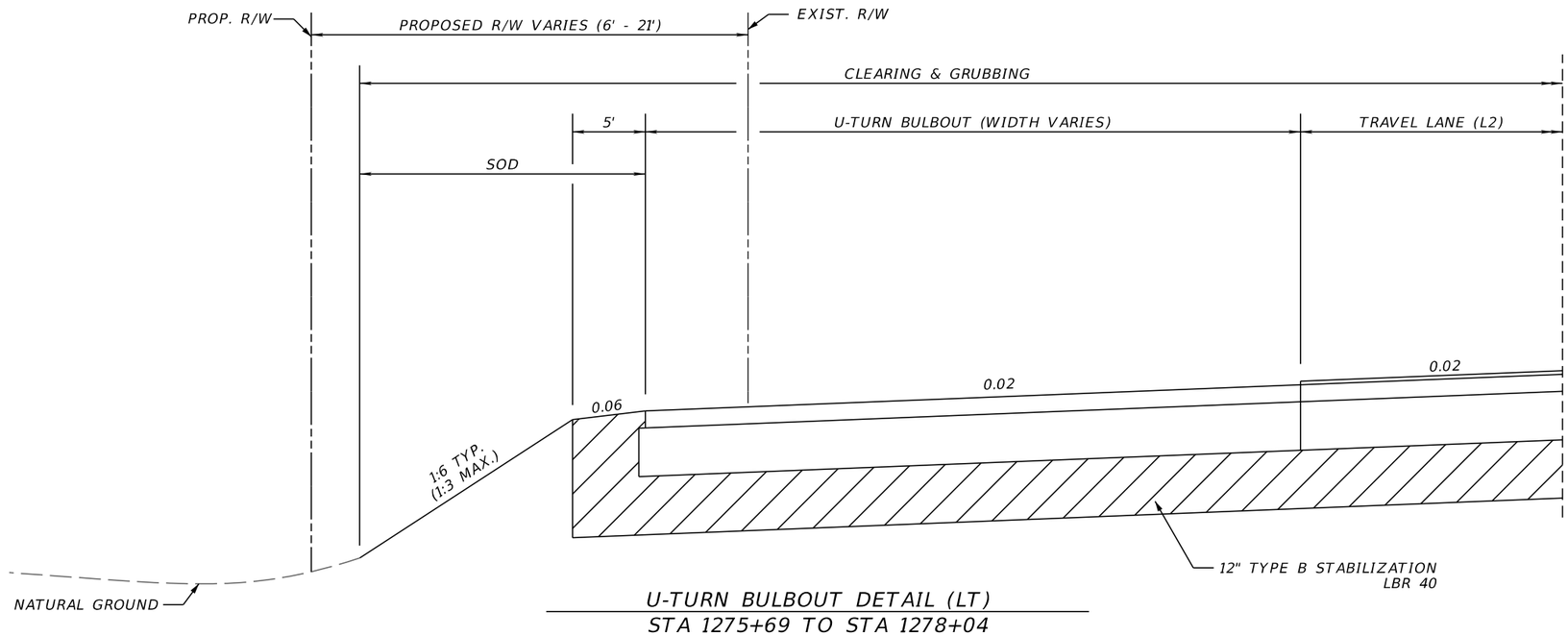
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NOTE: MIRROR DETAIL FOR WB LEFT TURN LANES.




## LEFT TURN LANE DETAIL

STA 1271+50 TO STA 1277+01
STA 1281+83 TO STA 1285+04
STA 1288+93 TO STA 1292+90
STA 1294+36 TO STA 1297+79




## U-TURN BULBOUT DETAIL (LT)

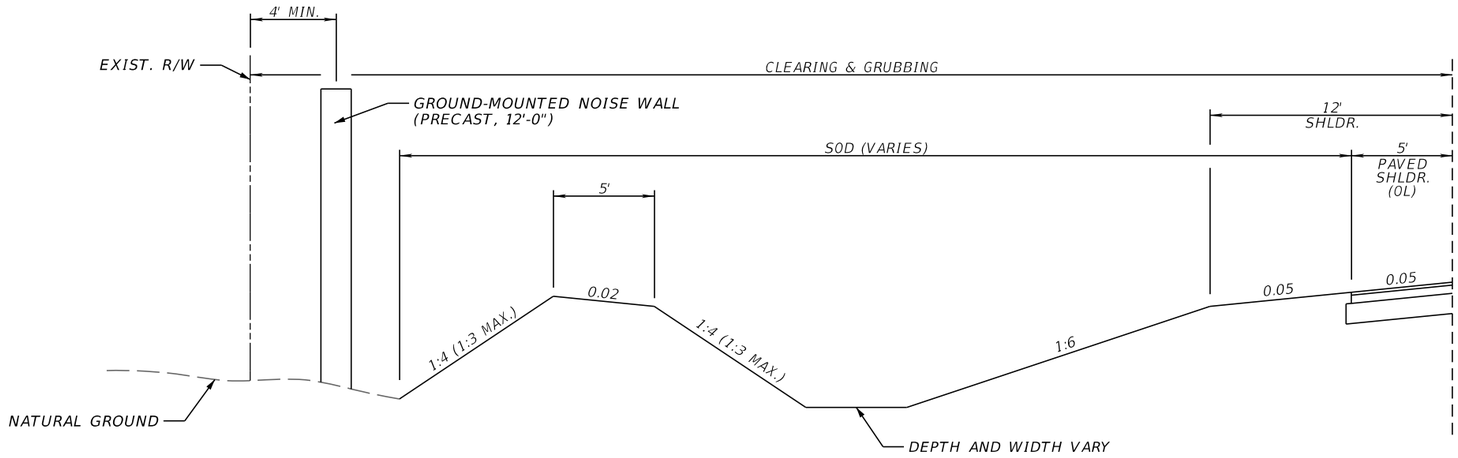
STA 1275+69 TO STA 1278+04

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | TYPICAL SECTION DETAIL (1) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>P.E. LICENSE NUMBER 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD<br>SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

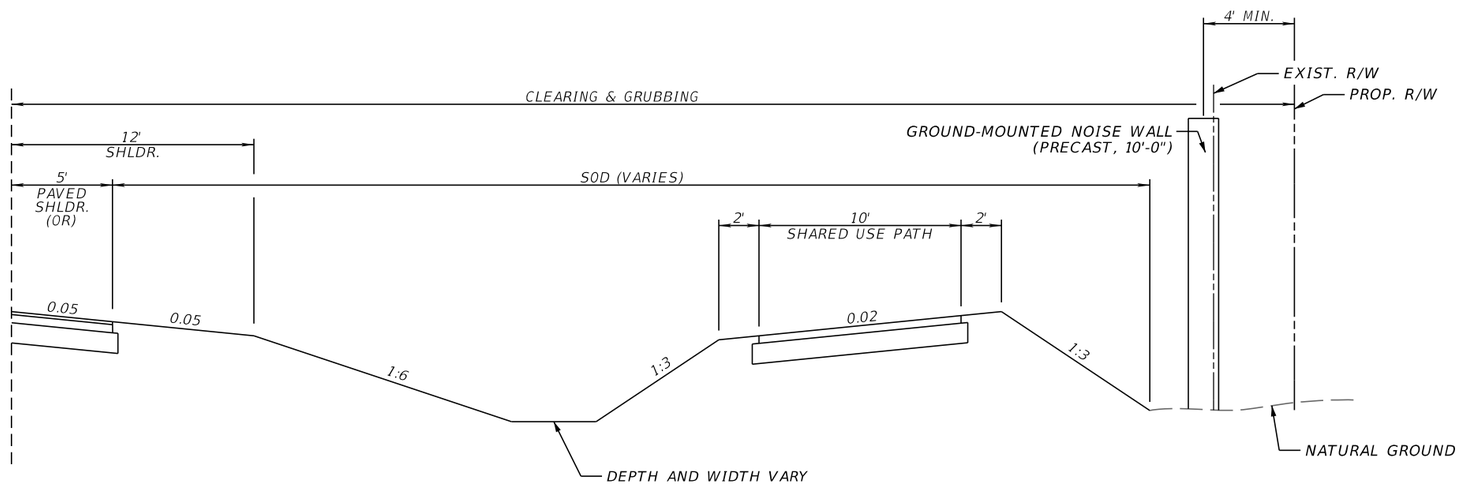
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NOISE WALL DETAIL (LT)
STA 1289+20 TO STA 1293+00




NOISE WALL DETAIL (RT)
STA 1282+55 TO STA 1293+23

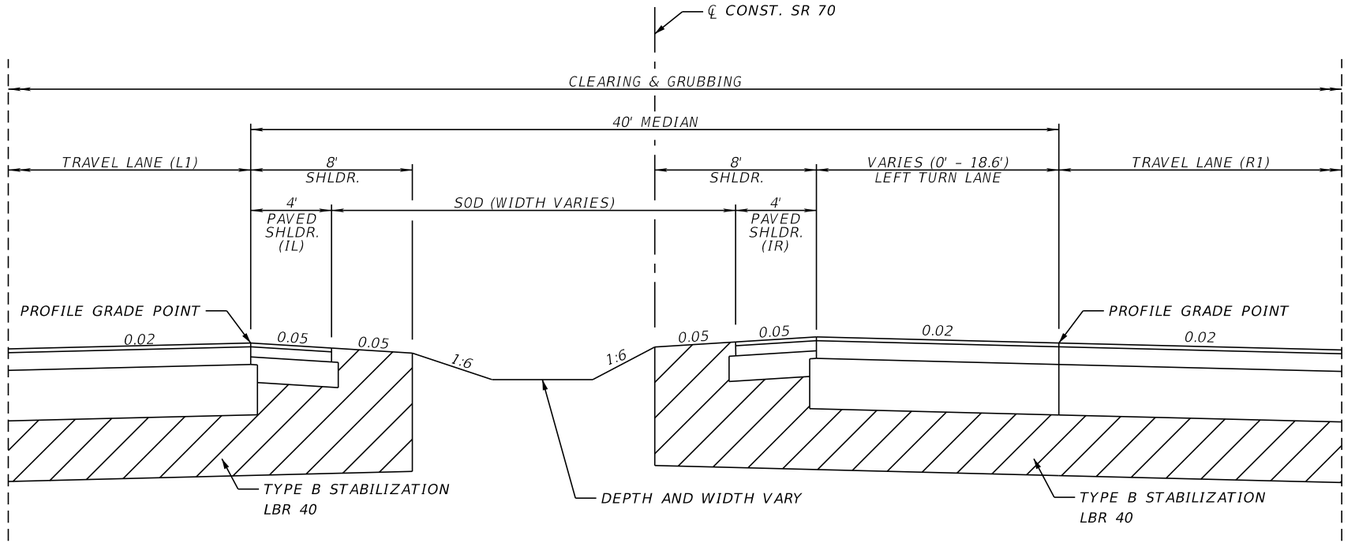
| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | TYPICAL SECTION DETAIL (2) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>P.E. LICENSE NUMBER 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD<br>SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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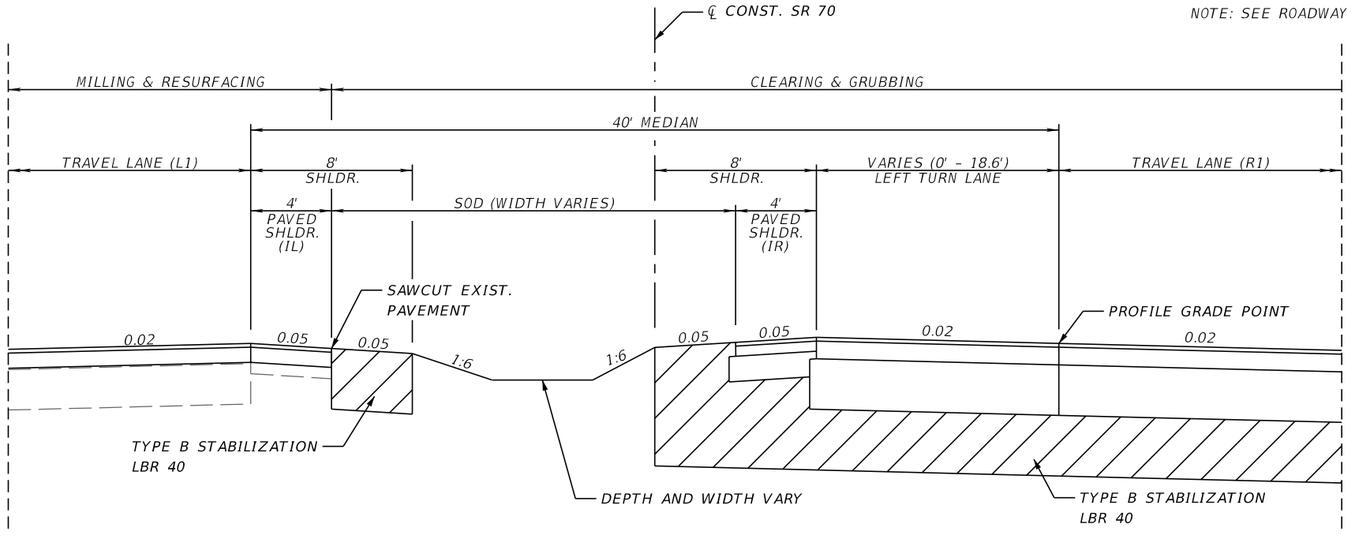
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NOTE: MIRROR DETAIL FOR WB LEFT TURN LANES.




## LEFT TURN LANE DETAIL
STA 1302+20 TO STA 1303+63
STA 1386+65 TO STA 1391+40
STA 1394+31 TO STA 1398+78

NOTE: SEE ROADWAY PLANS FOR EXACT LIMITS OF SAWCUT AND MILLING.




## LEFT TURN LANE DETAIL
STA 1303+63 TO STA 1306+21
STA 1315+01 TO STA 1319+32
STA 1327+72 TO STA 1332+53
STA 1341+28 TO STA 1346+01
STA 1361+24 TO STA 1365+97

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | TYPICAL SECTION DETAIL (3) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>P.E. LICENSE NUMBER 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD<br>SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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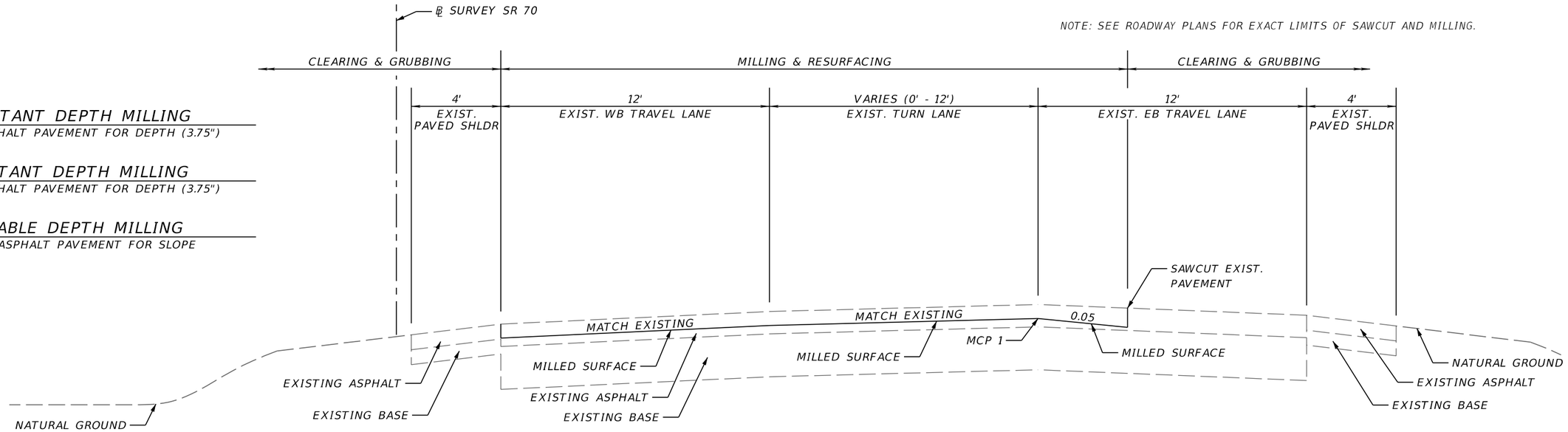
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NOTE: SEE ROADWAY PLANS FOR EXACT LIMITS OF SAWCUT AND MILLING.

**L2 CONSTANT DEPTH MILLING**
MILL EXIST. ASPHALT PAVEMENT FOR DEPTH (3.75")

**L1 CONSTANT DEPTH MILLING**
MILL EXIST. ASPHALT PAVEMENT FOR DEPTH (3.75")

**IL VARIABLE DEPTH MILLING**
MILL EXIST. ASPHALT PAVEMENT FOR SLOPE



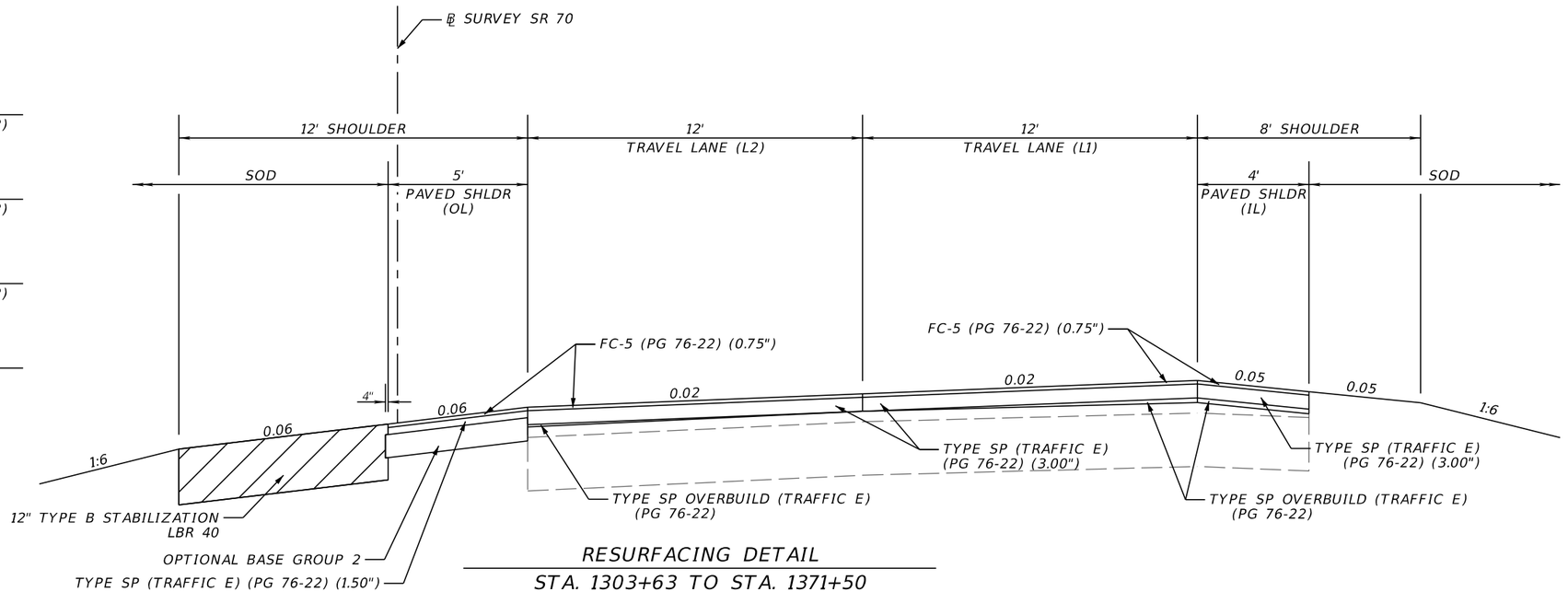

## MILLING DETAIL
STA. 1303+63 TO STA. 1371+50

**IL RESURFACING**
TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

**L2 RESURFACING**
TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

**L1 RESURFACING**
TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

**OL RECONSTRUCTION**
OPTIONAL BASE GROUP 2
TYPE SP (TRAFFIC E) (PG 76-22) (1.50")
FC-5 (PG 76-22) (0.75")




## RESURFACING DETAIL
STA. 1303+63 TO STA. 1371+50

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | TYPICAL SECTION DETAIL (4) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>P.E. LICENSE NUMBER 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD<br>SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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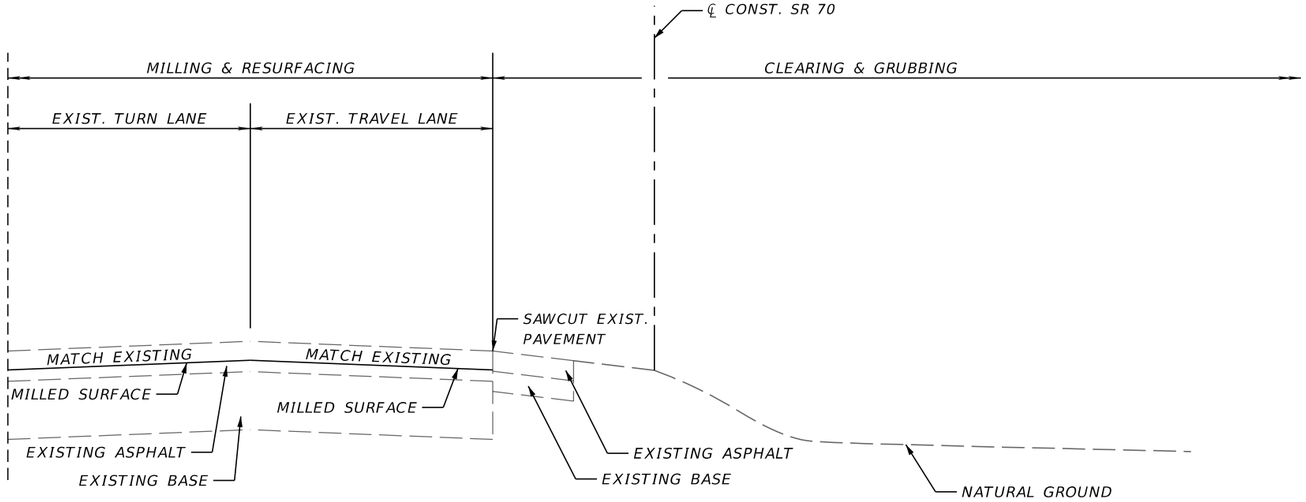
NOTE: SEE ROADWAY PLANS FOR EXACT LIMITS OF SAWCUT AND MILLING.

## EXIST. TURN LANE CONSTANT DEPTH MILLING

MILL EXIST. ASPHALT PAVEMENT FOR DEPTH (3.75")

## EXIST. TRAVEL LANE CONSTANT DEPTH MILLING

MILL EXIST. ASPHALT PAVEMENT FOR DEPTH (3.75")




## MILLING DETAIL (LEFT TURN LANE)

STA. 1321+13 TO STA. 1325+20

## L1 RESURFACING

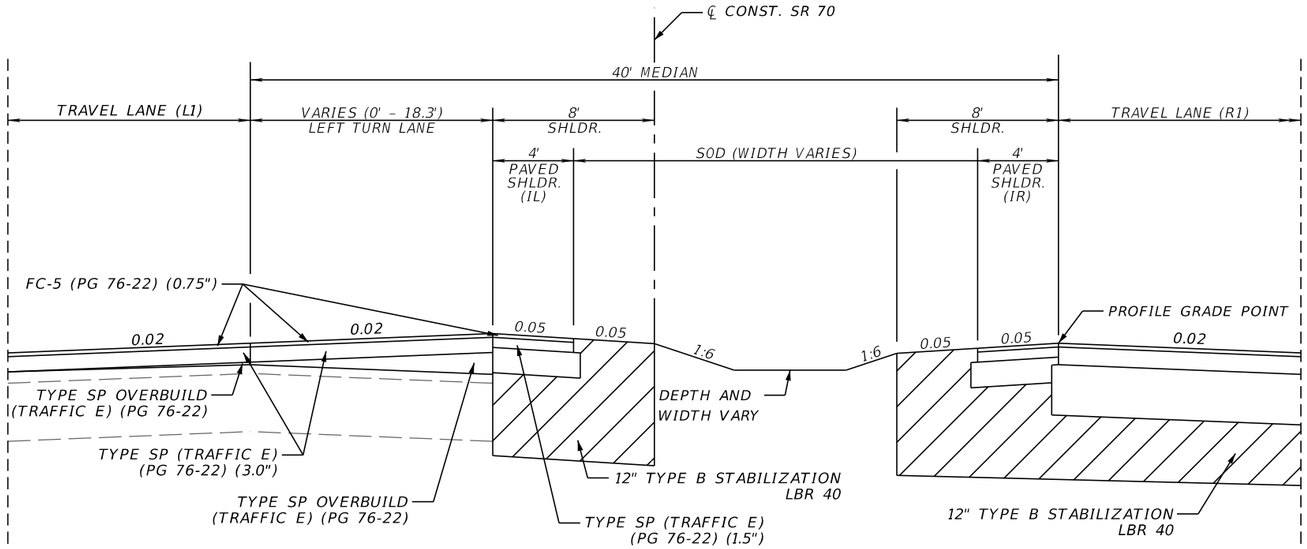
TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

## LEFT TURN LANE RESURFACING

TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

## OL CONSTRUCTION

OPTIONAL BASE GROUP 2
TYPE SP (TRAFFIC E) (PG 76-22) (1.50")
FC-5 (PG 76-22) (0.75")




## RESURFACING DETAIL (LEFT TURN LANE)

STA. 1321+13 TO STA. 1325+20

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |


ENGINEER OF RECORD
BRETT M. HENSLEY, P.E.
P.E. LICENSE NUMBER 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# TYPICAL SECTION DETAIL (5)

SHEET NO.


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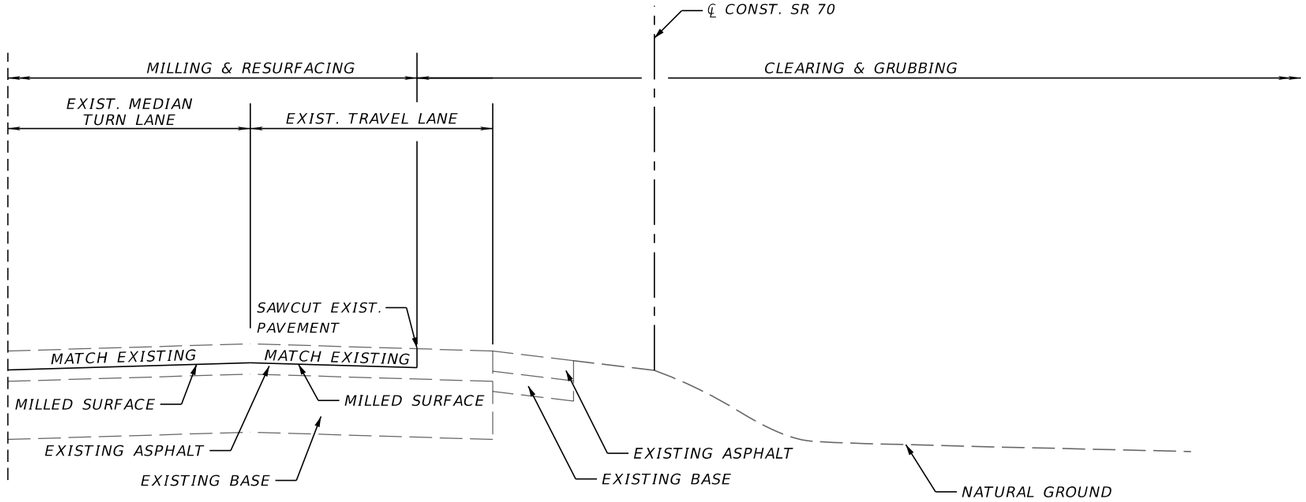
NOTE: SEE ROADWAY PLANS FOR EXACT LIMITS OF SAWCUT AND MILLING.

## EXIST. TURN LANE CONSTANT DEPTH MILLING

MILL EXIST. ASPHALT PAVEMENT FOR DEPTH (3.75")

## EXIST. TRAVEL LANE CONSTANT DEPTH MILLING

MILL EXIST. ASPHALT PAVEMENT FOR DEPTH (3.75")




## MILLING DETAIL (LEFT TURN LANE)
STA 1347+17 TO STA 1351+64

## L1 RESURFACING

TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

## LEFT TURN LANE RESURFACING

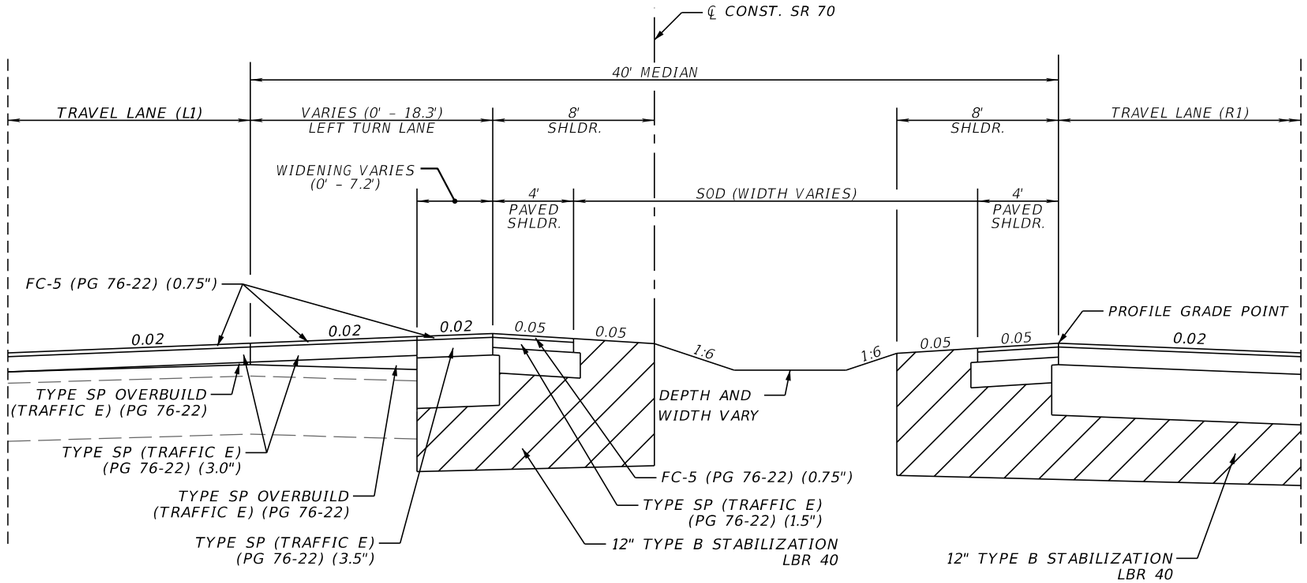
TYPE SP OVERBUILD (TRAFFIC E) (PG 76-22)
TYPE SP (TRAFFIC E) (PG 76-22) (3.00")
FC-5 (PG 76-22) (0.75")

## LEFT TURN LANE WIDENING

OPTIONAL BASE GROUP 9
TYPE SP (TRAFFIC E) (PG 76-22) (3.50")
FC-5 (PG 76-22) (0.75")

## OL CONSTRUCTION

OPTIONAL BASE GROUP 2
TYPE SP (TRAFFIC E) (PG 76-22) (1.50")
FC-5 (PG 76-22) (0.75")




## RESURFACING DETAIL (LEFT TURN LANE)
STA 1347+17 TO STA 1351+64

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |


ENGINEER OF RECORD
BRETT M. HENSLEY, P.E.
P.E. LICENSE NUMBER 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# TYPICAL SECTION DETAIL (6)

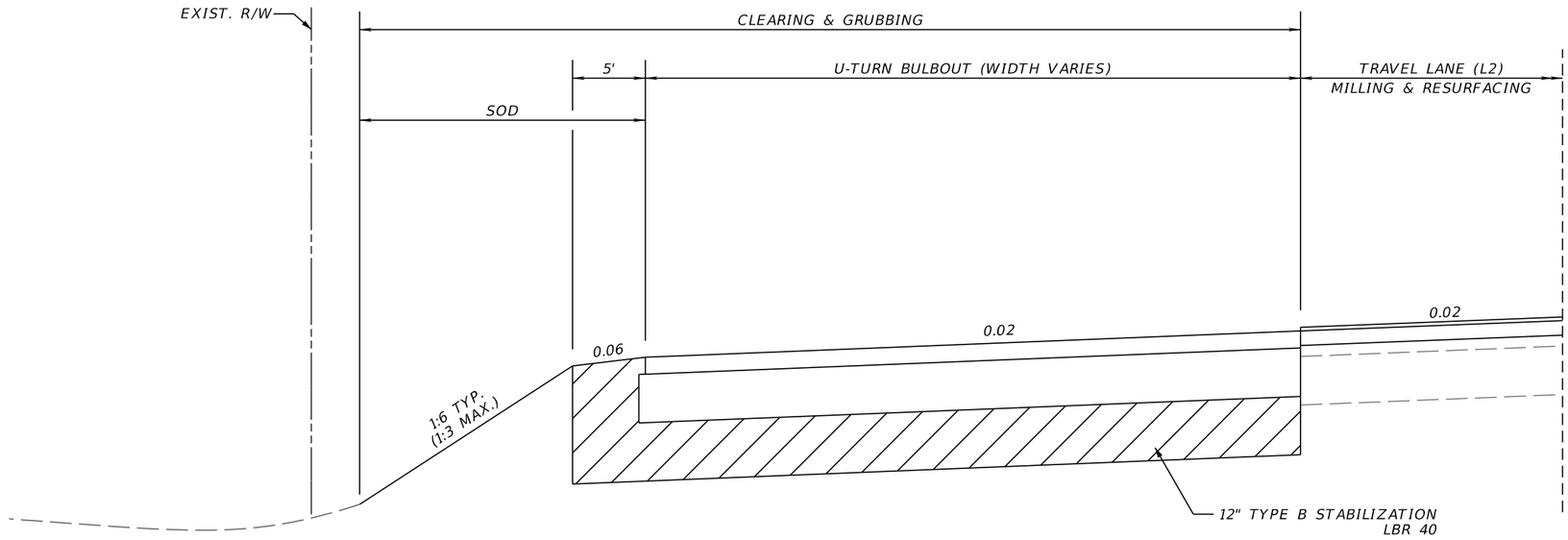
SHEET NO.


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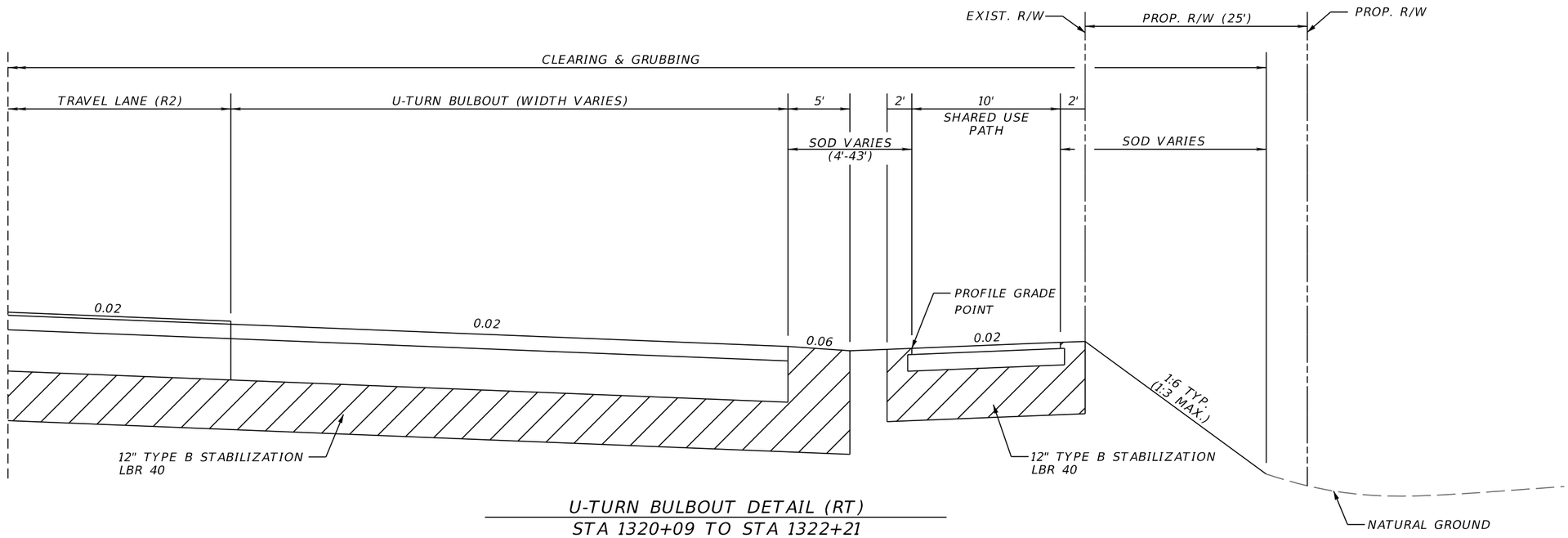




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## U-TURN BULBOUT DETAIL (LT)
## STA 1305+19 TO STA 1307+30



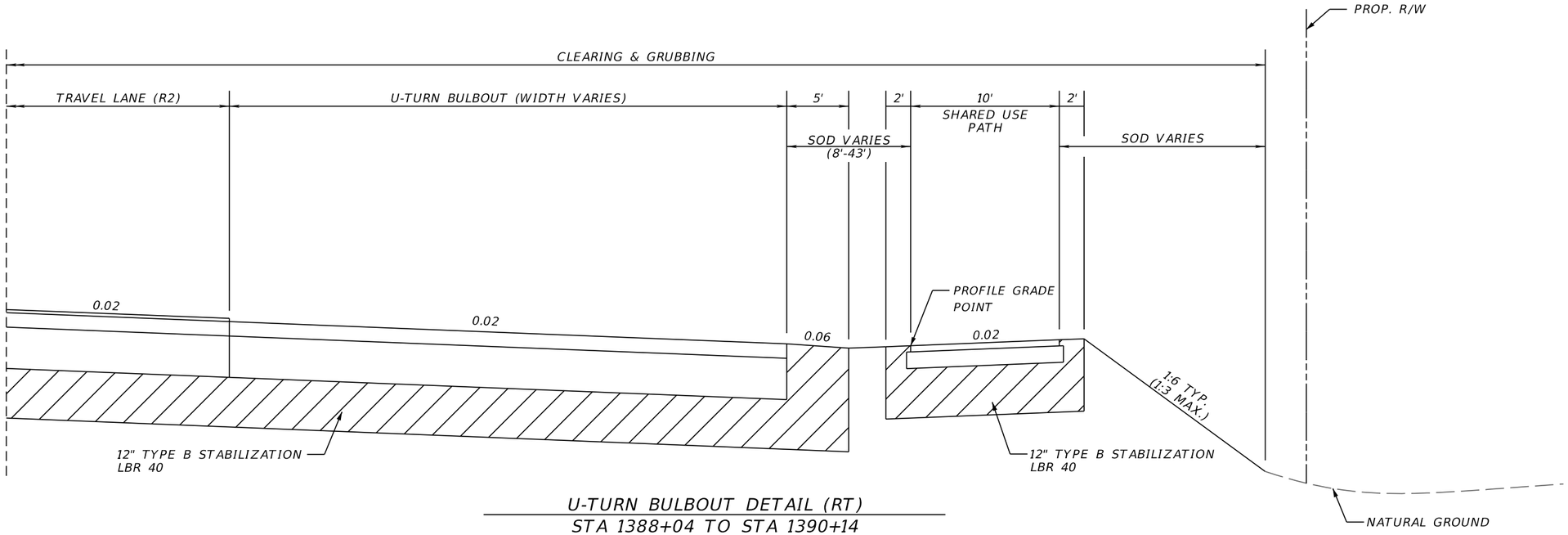

## U-TURN BULBOUT DETAIL (RT)
## STA 1320+09 TO STA 1322+21

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | TYPICAL SECTION DETAIL (7) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>P.E. LICENSE NUMBER 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD<br>SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

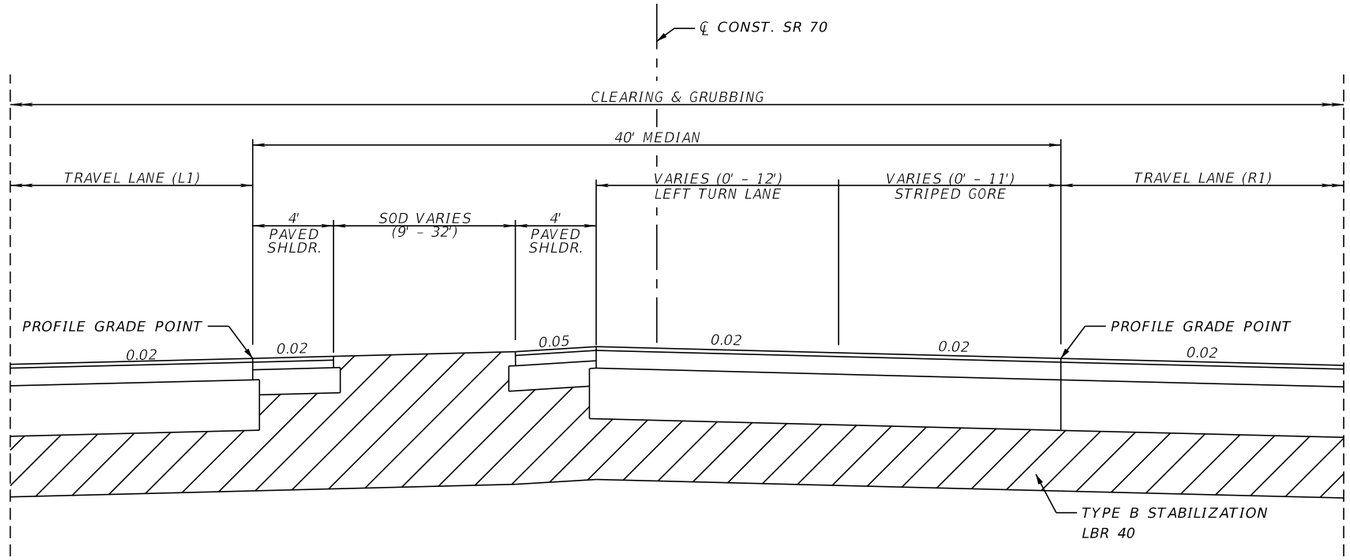
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RUL 61G15-23.004, F.A.C.



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## U-TURN BULBOUT DETAIL (RT)
## STA 1388+04 TO STA 1390+14



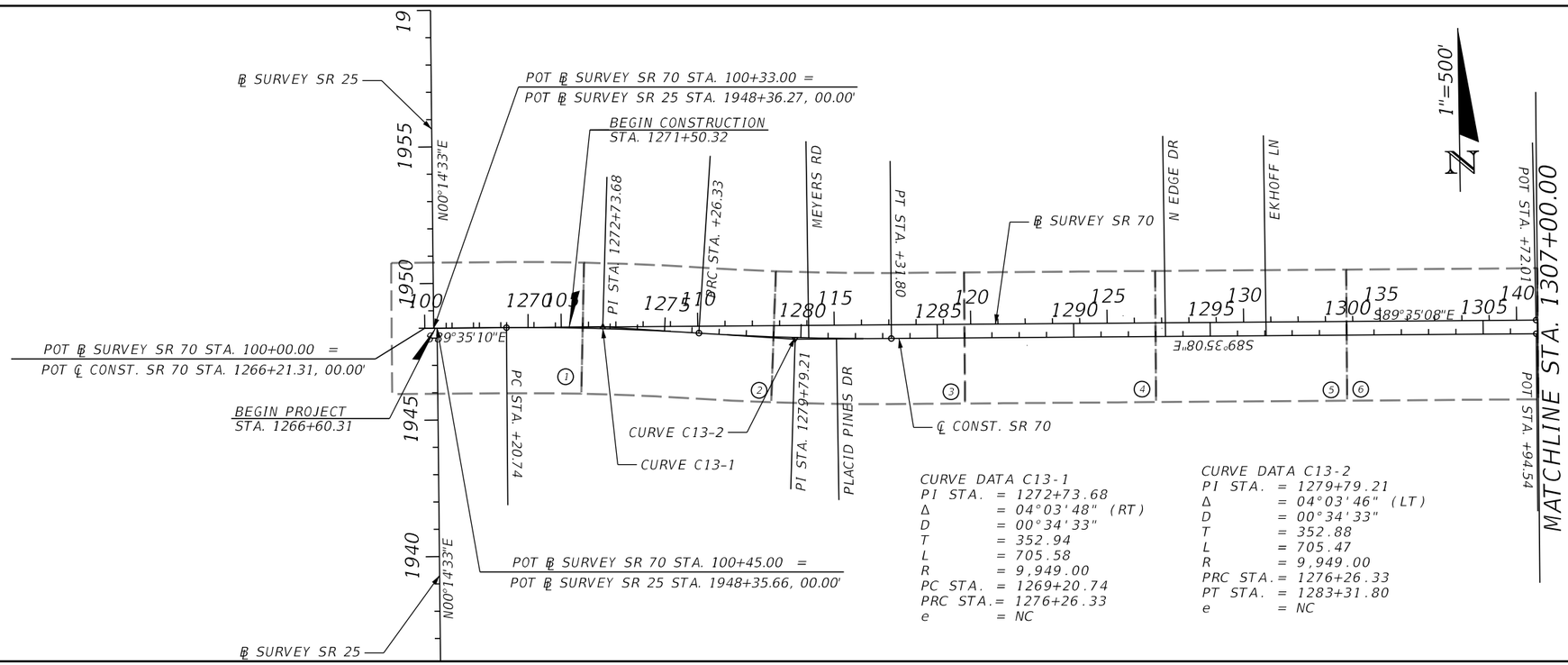

## LEFT TURN LANE DETAIL (RT)
## STA 1407+15 TO STA 1411+62

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | TYPICAL SECTION DETAIL (8) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>P.E. LICENSE NUMBER 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD<br>SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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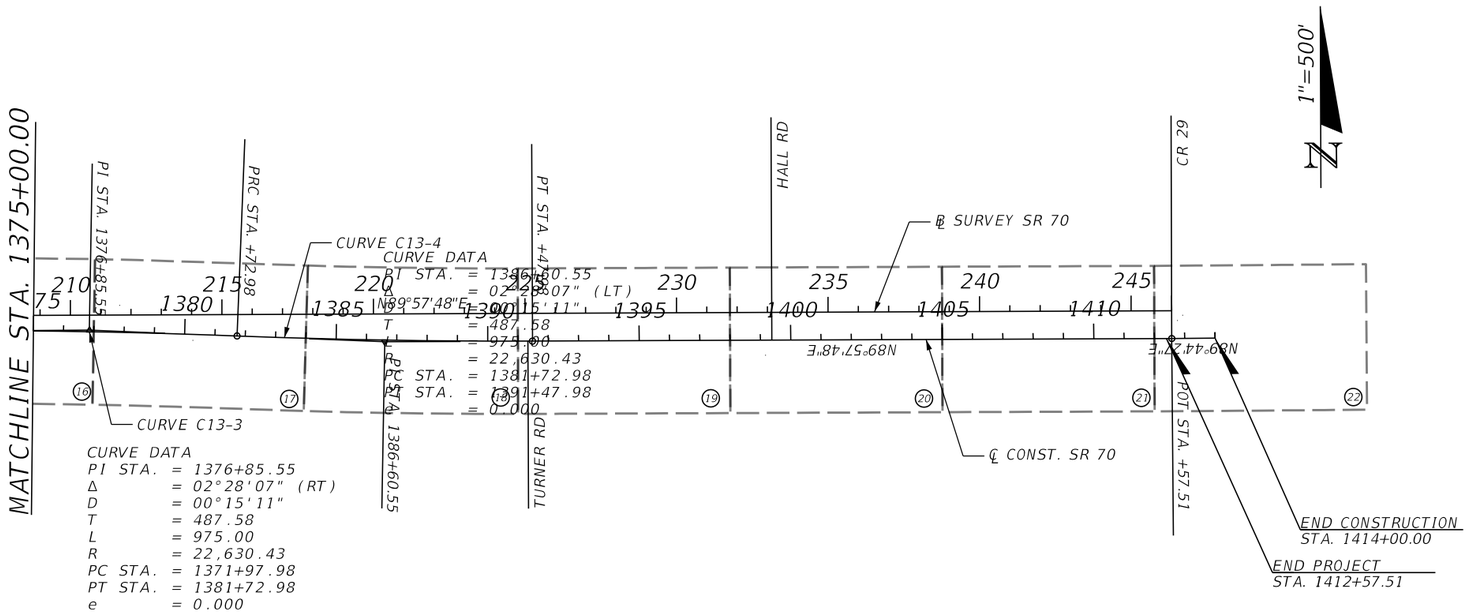



| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PROJECT LAYOUT | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | PROJECT LAYOUT | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |



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## GENERAL NOTES

1. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

   TAYLOR HENNINGE, PSM LS7279
   5701 DIVISION DRIVE, SUITE A
   FORT MYERS, FL 33905
   239-275-8875

2. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

3. UTILITY AGENCY OWNERS:

| COMPANY | CONTACT | TELEPHONE NUMBERS | EMAIL ADDRESS |
|---|---|---|---|
| CENTURYLINK COMMUNICATIONS LLC | STEVE MANN | 407-861-3533 | STEPHEN.L.MANN@LUMEN.COM |
| COMCAST | CESAR RIVERA | 407-353-5944 | CESAR_RIVERA@COMCAST.COM |
| DUKE ENERGY - DISTRIBUTION | MARK MANNER | 863-678-4476 | MARK.MANNER@DUKE-ENERGY.COM |
| DUKE ENERGY - FIBER | JULIAN JORDAN | 813-407-8777 | JULIAN.JORDAN@DUKE-ENERGY.COM |
| DUKE ENERGY - TRANSMISSION | SCOTT VANVELZOR | 813-909-1241 | SVANVELZOR@PIKE.COM |
| FLORIDA POWER & LIGHT - DISTRIBUTION | MARTIN MIKHAIL | 561-993-6825 | MARTIN.MIKHAIL@FPL.COM |
| FLORIDA POWER & LIGHT - TRANSMISSION | CRAIG LEDBETTER | 561-803-7942 | CRAIG.LEDBETTER@FPL.COM |
| GLADES ELECTRIC COOPERATIVE, INC. | COLIN EVANS | 863-531-5034 | CEVANS@GLADESELECTRIC.COM |
| HIGHLANDS COUNTY - TRAFFIC | EDWARD CARDONA | 863-402-6536 | ECARDONA@HCBCC.ORG |
| LEVEL 3 COMMUNICATIONS DBA CENTURYLINK NATIONAL | FRANCISCO AZURI | 786-266-1713 | FRANCISCO.AZURI@LUMEN.COM |

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

GENERAL NOTES

SHEET NO.



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1"=50'

EXIST. R/W

SR 25 (SB)

N00°14'33"E

1950

1949

1948

1947

946

℄ SURVEY SR 25

EQUATION:
STA. 225+65.58 BK =
STA. 100+00.00 AH

+45.89
100.20' LT.

EXIST. R/W

PROPOSED R/W

+73.64
103.42' LT.

+73.98
92.00' LT.

EXIST. R/W

175.11
53.44' LT.

CONST. TYPE E
CURB & GUTTER

SR 70 (WB)

℄ SURVEY. SR 70

65 225 1266 100 1267 101 1268 102 1269 103 1270 104 1271 105 12

END PROJECT FPID 414506-3
BEGIN PROJECT FPID 414506-4
STA. 1266+60.31

℄ CONST. SR 70

SR 70 (EB)

PC STA. 1270+20.74

END CONSTRUCTION FPID 414506-3
BEGIN CONSTRUCTION FPID 414506-4
STA. 1271+50.32

MATCHLINE STA. 1272+00.00

EXIST. R/W

+46.50
111.80' RT.

EXIST. R/W

CONST. SHARED USE PATH

10'

4" CPP #1
UNABLE TO LOCATE
WEST INVERT

4" CPP #1
UNABLE TO LOCATE
NORTH INVERT

4" CPP #1
UNABLE TO LOCATE
SOUTH INVERT

INV EL 131.40'

INV EL 132.62

INV EL 123.49'

INV EL 126.17'

INV EL 123.99'

INV EL 131.74'

133.01'

L 134.91'

LEGEND

PAVED SHLDR

DITCH CENTERLINE

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD
BRETT M. HENSLEY, P.E.
P.E. LICENSE NUMBER 94514
HNTB CORPORATION
4651 SALISBURY ROAD
SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

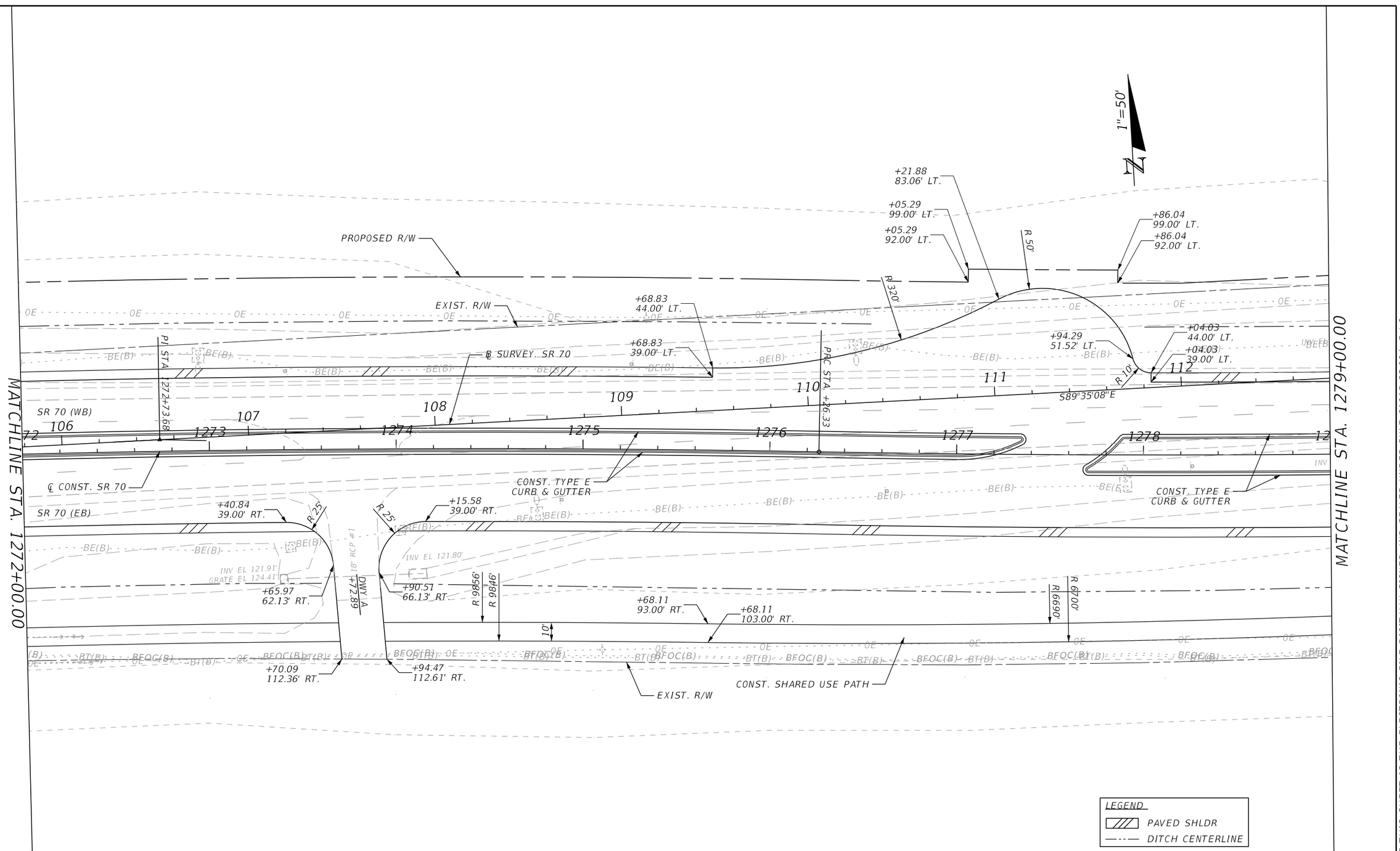
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (1)

SHEET NO.



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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (2)

SHEET NO.

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1"=50'

N

MATCHLINE STA. 1279+00.00

MATCHLINE STA. 1286+00.00

PROPOSED R/W

EXIST. R/W

℄ SURVEY. SR 70

+16.22
100.05' LT.

+19.33
95.47' LT.

+16.39
95.38' LT.

+19.49
90.92' LT.

+31.44
95.84' LT.

+31.73
87.39' LT.

+82.15
39.00' LT.

+69.07
39.00' LT.

MYERS RD

R 50'

S89°35'08"E

PI STA. +31.80

SR 70 (WB)

+54.27
3.00' LT.

+04.27
11.00' LT.

S89°35'08"E

CONST. TYPE E
CURB & GUTTER

℄ CONST. SR 70

CONST. TYPE E
CURB & GUTTER

SR 70 (EB)

24" RCP #1

INV EL 119.49

INV EL 120.09

INV EL 119.78

INV EL 120.22

18" CMP #1

PI STA. 1279+79.21

+75.06
39.00' RT.

+00.44
83.56' RT.

+00.77
93.56' RT.

+26.08
87.46' RT.

+26.47
101.83' RT.

R 6699'

R 6700'

10'

+27.57
39.00' RT.

+50.66
70.93' RT.

+27.57
44.00' RT.

+10.68
46.98' RT.

+47.37
90.19' RT.

+49.78
100.23' RT.

+49.78
103.84' RT.

+47.65
101.08' RT.

PLACID PINES DR

CONST. SHARED USE PATH

PROPOSED R/W

EXIST. R/W

BEGIN GROUND-MOUNTED NOISE WALL
(PRECAST, 10'-0")
STA 1282+54.73, 99.80' RT

SUNSHINE RV RESORT

113 114 115 116 117 118 119

1279 1280 1281 1282 1283 1284 1285

LEGEND

PAVED SHLDR

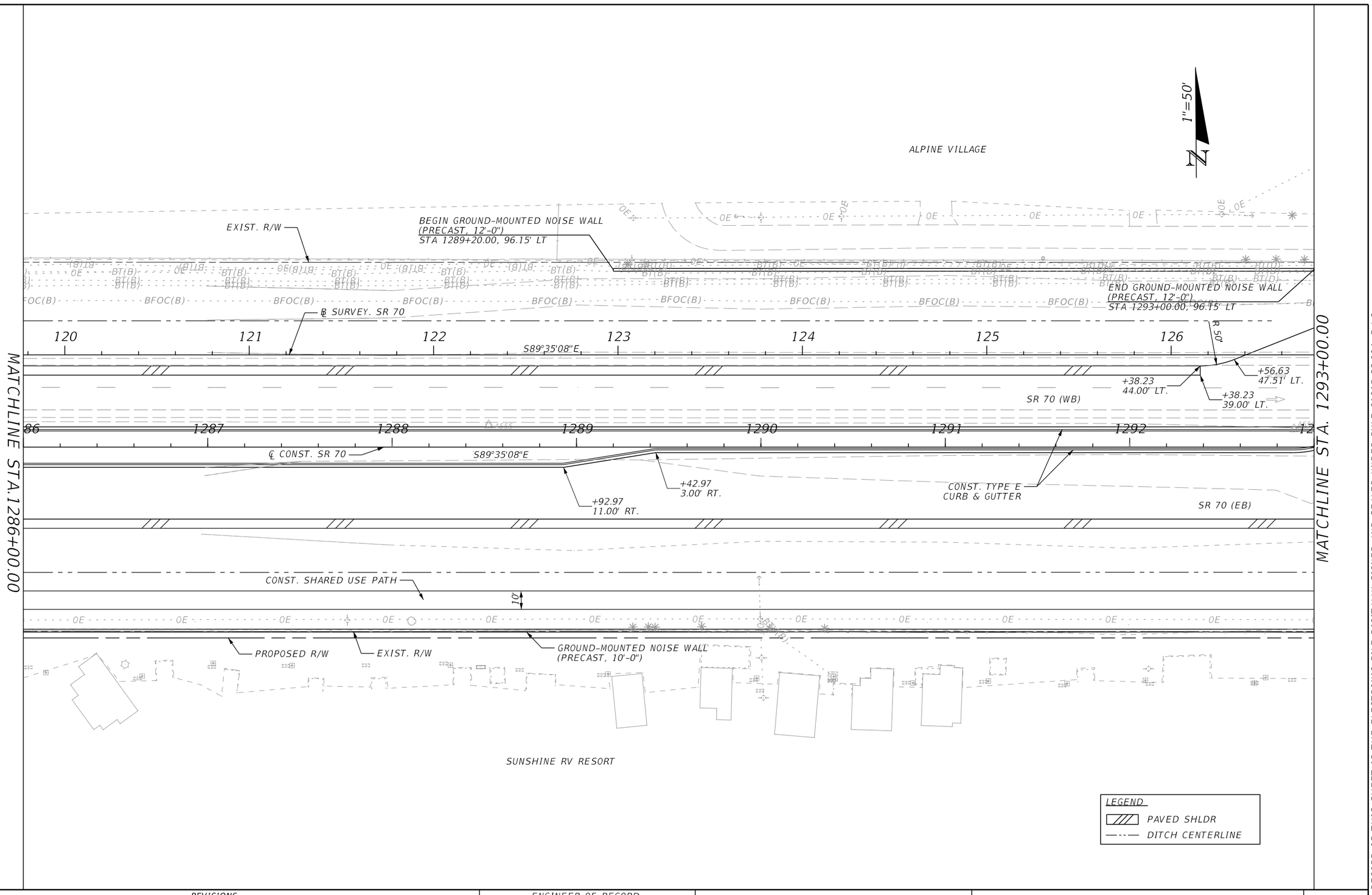
DITCH CENTERLINE

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| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ROADWAY PLAN (3) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |



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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

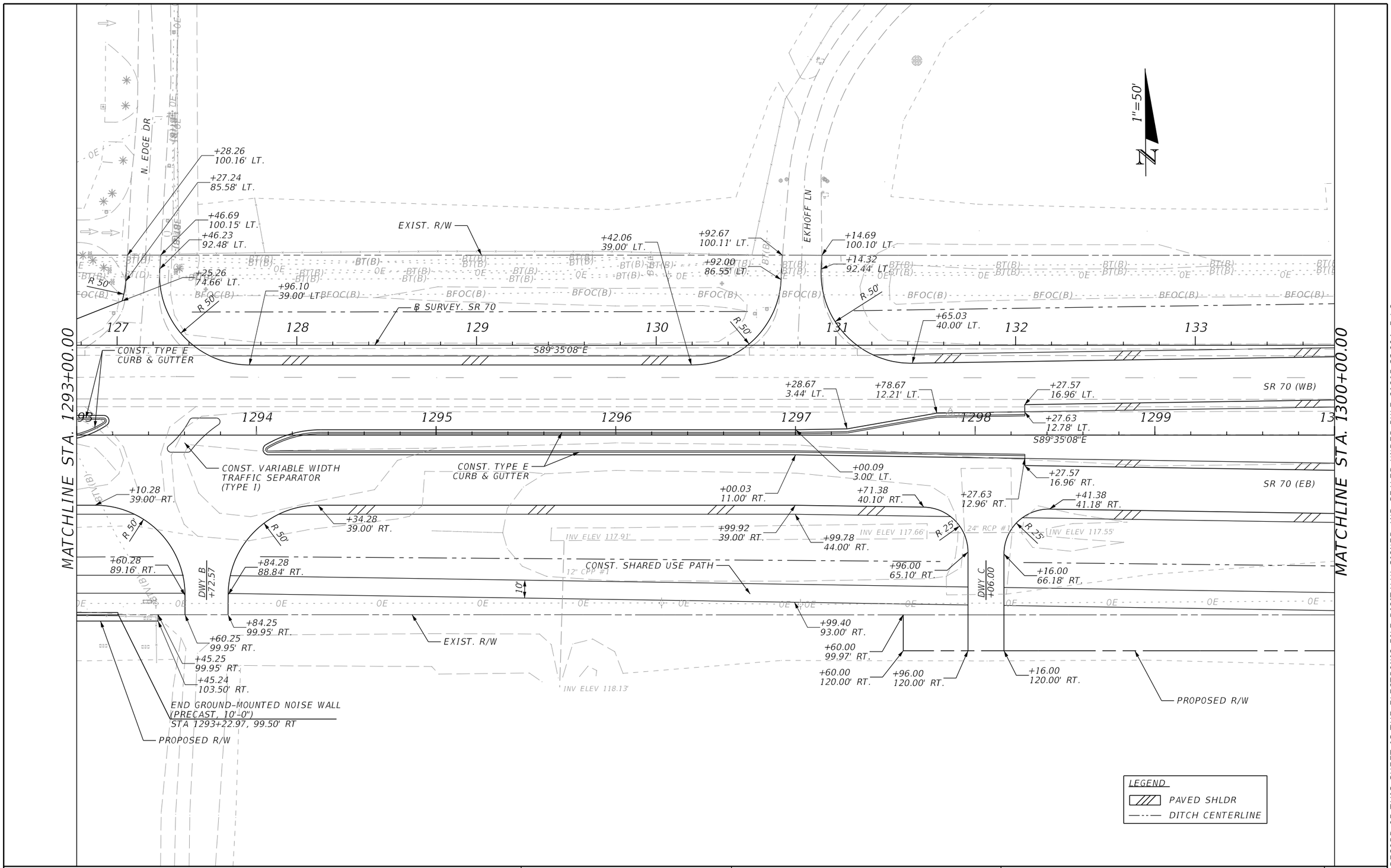
# ROADWAY PLAN (4)

SHEET NO.

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

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|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (5)

SHEET NO.

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aserrano 2/7/2025 4:22:47 PM

1"=50'

MATCHLINE STA. 1300+00.00

MATCHLINE STA. 1307+00.00

+00.00
110.00' LT.

+00.00
100.05' LT.

EXIST. R/W

PROPOSED R/W

END NEW CONSTRUCTION (WB)
BEGIN MILLING & RESURFACING
STA. 1303+63.00

+00.00
110.00' LT.

+00.00
100.01' LT.

BT(B) OE BFOC(B)

+54.42
79.27' LT.

R 320'

R 50'

PI STA. 7+22.01

INV ELEV 114.45'

134 135 136 137 138 139 140

+24.78
49.00' LT.

S89°35'08"E

℄ SURVEY. SR 70

+18.56
49.00' LT.

+24.82
44.00' LT.

SR 70 (WB)

+18.56
44.00' LT.

+25.00
20.00' LT.

℄ CONST. SR 70

+25.03
16.00' LT.

00 1301 1302 1303 1304 1305 1306 13

+25.03
16.00' RT.

S89°35'08"E

INV ELEV 114.63'

+25.00
20.00' RT.

+69.50
8.00' RT.

+24.82
44.00' RT.

SR 70 (EB)

+19.52
20.00' RT.

+24.78
49.00' RT.

10'

+95.18
120.00' RT.

EXIST. R/W

CONST. SHARED USE PATH

+95.04
115.00' RT.

PROPOSED R/W

PROPOSED R/W

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

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

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (6)

SHEET NO.



c:\caddlib\pw\bhensley\sediv\d0241360\PLANRD06.dgn : CL - PLAN 6 [SHEET]
aserrano 2/7/2025 4:22:48 PM

1"=50'

MATCHLINE STA. 1307+00.00

MATCHLINE STA. 1314+00.00

EXIST. R/W

+09.81
100.02' LT.
+21.01
100.02' LT.

+21.06
55.11' LT.

+02.92
64.27' LT.

+16.12
74.07' LT.

R 50'

R 25'

DWY D STA +96.14

+30.25
49.00' LT.

+25.49
49.00' LT.

℄ SURVEY. SR 70

S89°39'53"E

141 142 143 144 145 146 147

R 10'

+30.25
44.00' LT.

+93.37
49.00' LT.

+25.49
44.00' LT.

+93.37
44.00' LT.

SR 70 (WB)

07 1308 1309 1310 1311 1312 1313 13

A559

A560

CONST. TYPE E
CURB & GUTTER

℄ CONST. SR 70

S89°39'53"E

SR 70 (EB)

10'

CONST. SHARED USE PATH

EXIST. R/W

PROPOSED R/W

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ROADWAY PLAN (7) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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aserrano 2/7/2025 4:22:54 PM

MATCHLINE STA. 1314+00.00

MATCHLINE STA. 1321+00.00

1"=50'

N

BROWARD AVE

+05.48
110.00' LT.

+05.53
100.09' LT.

PROPOSED R/W

EXIST. R/W

+05.48
110.00' LT.

+05.53
100.13' LT.

+05.58
100.16' LT.

+25.18
100.16' LT.

℄ SURVEY, SR 70

INV ELEV 114.02'

+79.93
54.92' LT.

R 60'

R 60'

+65.15
49.00' LT.

+39.36
65.22' LT.

+67.51
49.00' LT.

148 149 150 151 152 153 154

S89°39'53"E

SR 70 (WB)

14 1315 1316 1317 1318 1319 1320 13

A561

INV ELEV 113.68'

℄ CONST. SR 70

S89°39'53"E

SR 70 (EB)

+00.73
20.00' RT.

+50.73
8.00' RT.

CONST. VARIABLE WIDTH
TRAFFIC SEPARATOR
(TYPE I)

+09.23
49.00' RT.

+09.23
44.00' RT.

R 10'

+18.32
54.83' RT.

R 50'

R 320'

10'

EXIST. R/W

CONST. SHARED USE PATH

+85.00
79.27' RT.

PROPOSED R/W

+00.00
115.00' RT.

+00.00
131.00' RT.

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (8)

SHEET NO.



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aserrano 2/7/2025 4:23:03 PM

MATCHLINE STA. 1321+00.00

MATCHLINE STA. 1328+00.00

1"=50'

N

EXIST. R/W

℄ SURVEY SR 70

155 156 157 158 159 160 161

S89°39'53"E

+19.77
20.09' LT.

+19.77
16.00' LT.

SR 70 (WB)

+69.77
7.95' LT.

℄ CONST. SR 70

21 1322 1323 1324 1325 1326 1327 13

A562 A563

S89°39'53"E

+20.86
44.00' RT.

SR 70 (EB)

+71.58
20.00' RT.

R 320'

+20.86
49.00' RT.

+00.00
98.00' RT.

10'

EXIST. R/W

+99.83
108.00' RT.

CONST. SHARED USE PATH

+00.00
125.00' RT.

+00.00
131.00' RT.

PROPOSED R/W

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

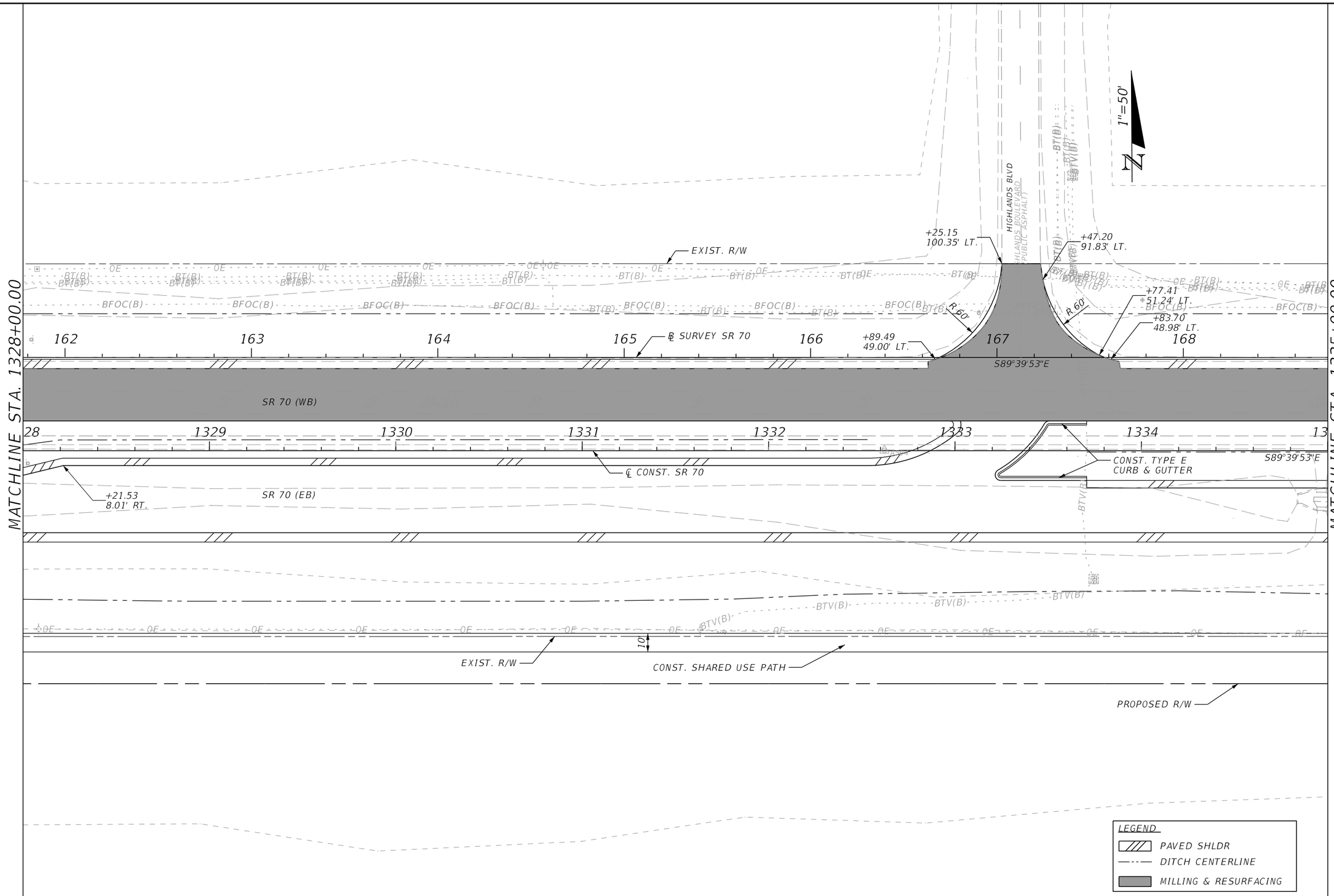
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (9)

SHEET NO.



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aserrano 2/7/2025 4:23:12 PM




| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ROADWAY PLAN (10) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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aserrano 2/7/2025 4:23:14 PM

PROPOSED R/W

1"=50'

N

+46.75
100.42' LT.

EXIST. R/W

BT(B) OE BFOC(B)

INV ELEV 108.48'

169 170 171 172 173 174 175

℄ SURVEY SR 70

S89°39'53"E

SR 70 (WB)

MATCHLINE STA. 1335+00.00

1335 1336 1337 1338 1339 1340 1341 1342

INV ELEV 108.39'

S89°39'53"E

℄ CONST. SR 70

SR 70 (EB)

+78.37
8.00' RT.

+28.37
20.00' RT.

MATCHLINE STA. 1342+00.00

CONST. SHARED USE PATH

10'

EXIST. R/W

PROPOSED R/W

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (11)

SHEET NO.

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aserrano 2/7/2025 4:23:15 PM

MATCHLINE STA. 1342+00.00

MATCHLINE STA. 1349+00.00

PROP. R/W

+46.75
100.50' LT.

EXIST. R/W

+46.66
100.55' LT.

+46.77
92.38' LT.

CITRUS BLVD
(PUBLIC ASPHALT)

+66.60
100.55' LT.

+66.81
92.86' LT.

1"=50'

N

BT(B) BFOC(B) OE

R 50'

+18.93
49.00' LT.

+95.56
49.00' LT.

176 177 178 179 180 181 182

℄ SURVEY SR 70

S89°39'53"E

+23.41
44.00' LT.

+91.22
44.00' LT.

SR 70 (WB)

42 1343 1344 1345 1346 1347 1348 13

S89°39'53"E

SR 70 (EB)

CONST. VARIABLE WIDTH
TRAFFIC SEPARATOR
(TYPE I)

+62.98
44.00' RT.

R 25

DWY E
+93.98

R 25

+24.98
44.00' RT.

+87.98
69.00' RT.

+99.98
69.00' RT.

CONST. SHARED USE PATH

10'

EXIST. R/W

+87.98
125.00' RT.

+99.98
125.00' RT.

PROPOSED R/W

+20.00
125.00' RT.

+20.00
153.00' RT.

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

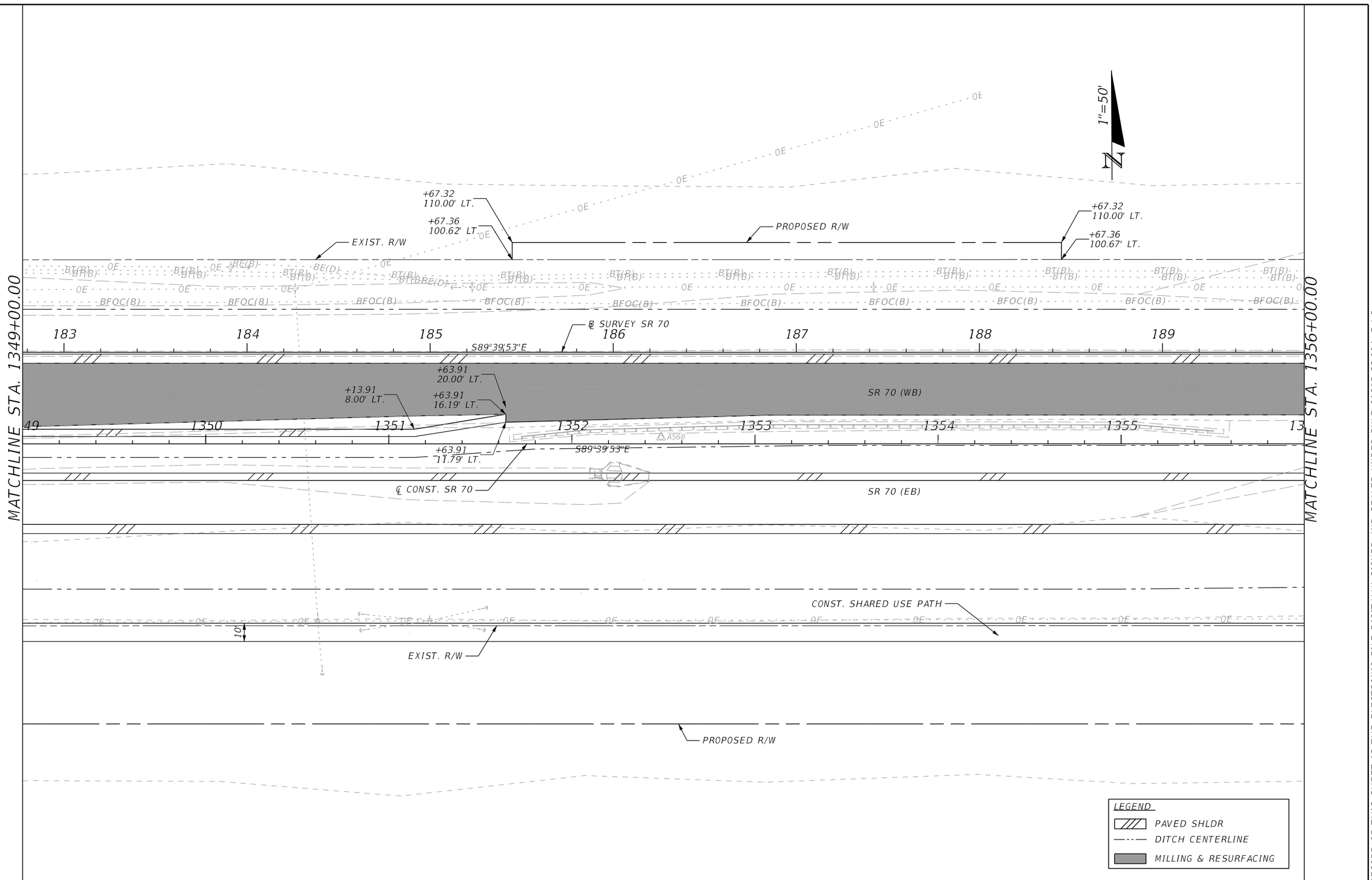
# ROADWAY PLAN (12)

SHEET NO.

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aserrano 2/7/2025 4:23:18 PM




| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (13)

SHEET NO.

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aserrano 2/7/2025 4:23:20 PM

MATCHLINE STA. 1356+00.00

MATCHLINE STA. 1363+00.00

1"=50'

N

+67.29
115.00' LT.

+67.36
100.70' LT.

PROPOSED R/W

+67.29
115.00' LT.

+67.36
100.72' LT.

EXIST. R/W

PI STA. +54.24

℄ SURVEY SR 70

S89°39'53"E

N89°57'48"E

190 191 192 193 194 195 196

A570

SR 70 (WB)

1356 1357 1358 1359 1360 1361 1362

℄ CONST. SR 70

S89°39'53"E

N89°57'48"E

SR 70 (EB)

PI STA. +76.96

+74.60
8.00' RT.

+24.60
20.00' RT.

BT(B) OE BFOC(B)

101'

EXIST. R/W

CONST. SHARED USE PATH

PROPOSED R/W

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

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| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ROADWAY PLAN (14) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |



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aserrano 2/7/2025 4:23:24 PM

MATCHLINE STA. 1363+00.00

MATCHLINE STA. 1370+00.00

1"=50'

N

BEAR ROAD

+43.05
100.64' LT.

+43.20
97.88' LT.

+61.22
100.64' LT.

+62.08
90.75' LT.

EXIST. R/W

R 50'

R 50'

+12.27
49.00' LT.

+90.24
49.00' LT.

℄ SURVEY SR 70

N89°57'48"E

+10.41
44.00' LT.

+88.45
44.00' LT.

SR 70 (WB)

CONST. TYPE E
CURB & GUTTER

℄ CONST. SR 70

SR 70 (EB)

INV ELEV 96.15'

10'

EXIST. R/W

CONST. SHARED USE PATH

PROPOSED R/W

+62.55
153.00' RT.

PROPOSED R/W

+72.46
155.00' RT.

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (15)

SHEET NO.

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aserrano 2/7/2025 4:23:27 PM

MATCHLINE STA. 1370+00.00

MATCHLINE STA. 1377+00.00

1"=50'

EXIST. R/W

GRAVEL

ASPHALT

BT(B)

BFOC(B)

OE

END MILLING AND RESURFACING (WB)
BEGIN NEW CONSTRUCTION (WB)
STA. 1371+50.00

℄ SURVEY SR 70

N89°57'48"E

204 205 206 207 208 209 210

1371 1372 1373 1374 1375 1376

+50.00
44.00' LT.

+50.00
19.28' LT.

+50.00
15.66' LT.

+97.98
49.00' LT.

+97.98
16.00' LT.

+97.98
44.00' LT.

+97.98
20.00' LT.

+69.54
69.09' LT.

+85.49
68.87' LT.

+44.62
44.00' LT.

+10.42
44.00' LT.

R 25'

R 22630'

DWY FL 77.52

INV ELEV 89.42

INV ELEV 89.48

BT CMP #1

SR 70
(ASPHALT)

SR 70 (WB)

℄ CONST. SR 70

PI STA. 1376+85.55

PC STA. +97.98

SR 70 (EB)

+85.47
44.00' RT.

EXIST. R/W

+05.07
97.06' RT.

10'

+05.16
107.06' RT.

CONST. SHARED USE PATH

R 19500'

R 19490'

+84.02
110.98' RT.

+85.92
154.98' RT.

PROPOSED R/W

FINISHED FLOOR 82.12'

1 STORY CBS
RESIDENTIAL

LEGEND

PAVED SHLDR

DITCH CENTERLINE

MILLING & RESURFACING

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

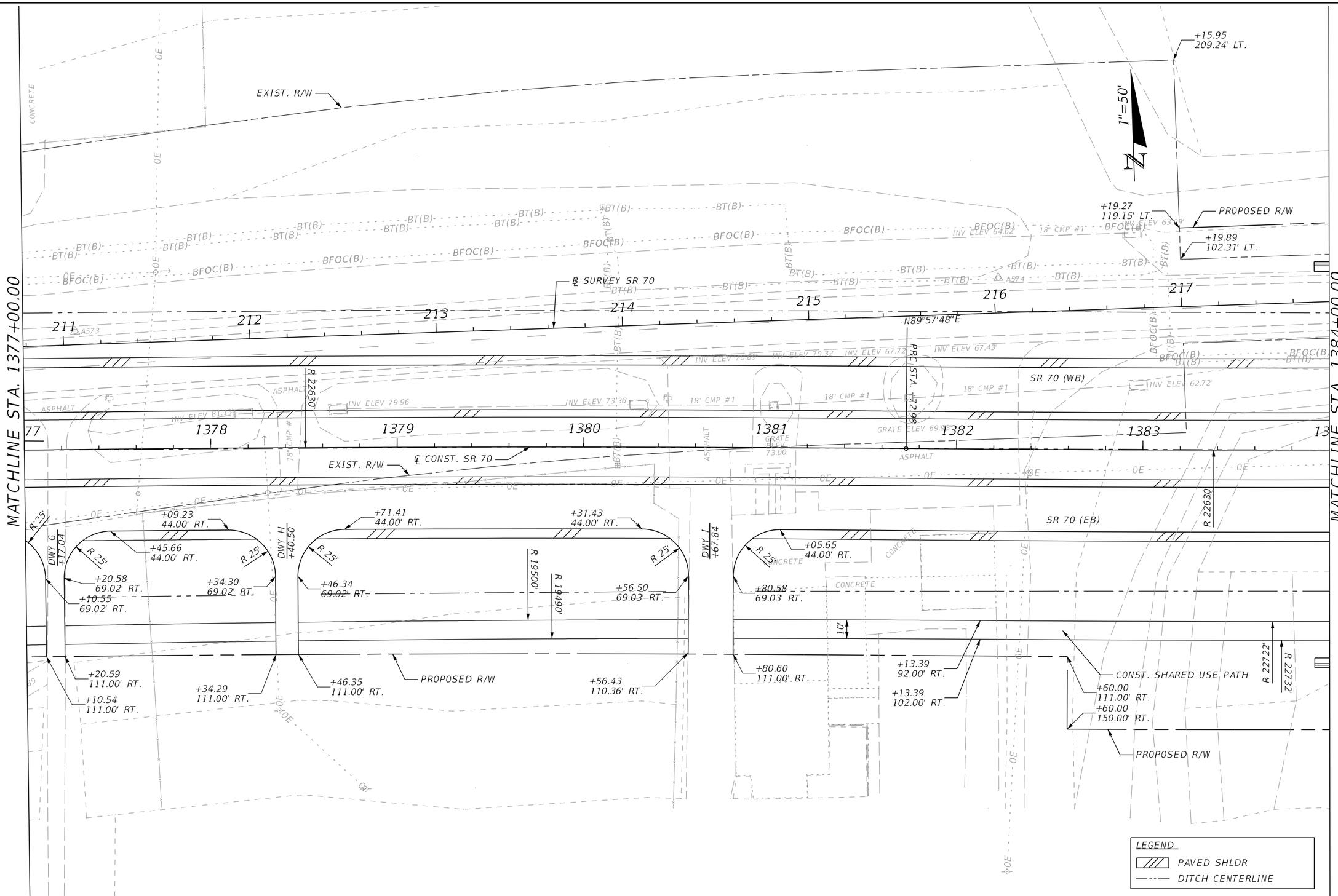
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (16)

SHEET NO.



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aserrano 2/7/2025 4:23:32 PM




| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (17)

SHEET NO.

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aserrano 2/7/2025 4:23:46 PM

MATCHLINE STA. 1384+00.00

MATCHLINE STA. 1391+00.00

1"=50'

PROPOSED R/W

EXIST. R/W

+14.52
127.95' LT.

+14.90
111.10' LT.

EXIST. R/W

℄ SURVEY SR 70

A575

N89°57'48"E

218 219 220 221 222 223 224

+52.32
132.59' LT.

+28.18
132.55' LT.

+28.20
94.08' LT.

+52.30
94.08' LT.

ASPHALT

GRAVEL

INV ELEV 42

BFOC(B) BT(B)

R 50'

+40.25

+77.99
44.00' LT.

+00.00
44.06' LT.

SR 70 (WB)

℄ CONST. SR 70

84 1385 1386 1387 1388 1389 1390

R 22630'

+89.61
8.00' LT.

0E

PI STA. 1386+60.55

+54.20
44.00' RT.

+54.20
49.00' RT.

+63.27
54.82' RT.

R 10'

R 50'

R 320'

+64.33
44.00' RT.

+64.33
49.00' RT.

SR 70 (EB)

+73.40
44.00' RT.

R 50'

+29.94
79.21' RT.

10'

R 22722'

R 22732'

CONST. SHARED USE PATH

PROPOSED R/W

LEGEND

PAVED SHLDR

DITCH CENTERLINE

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ROADWAY PLAN (18) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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aserrano 2/7/2025 4:23:51 PM

MATCHLINE STA. 1391+00.00

MATCHLINE STA. 1398+00.00

1"=50'

+33.35
132.52' LT.

+49.44
132.48' LT.

EXIST. R/W

REMOVE EXISTING GUARDRAIL

+65.47
131.13' LT.

+89.47
131.05' LT.

REMOVE EXISTING GUARDRAIL

225 226 227 228 229 230 231

+33.37
69.02' LT.

+49.42
69.01' LT.

N89°57'48"E

℄ SURVEY SR 70

+65.47
69.00' LT.

+89.47
69.00' LT.

+74.42
44.00' LT.

+40.47
44.00' LT.

+14.47
44.00' LT.

+89.64
44.00' LT.

+08.30
44.00' LT.

+39.61
20.00' LT.

SR 70 (WB)

1391 1392 1393 1394 1395 1396 1397 1398

N89°57'48"E

℄ CONST. SR 70

+93.09
44.00' RT.

SR 70 (EB)

+80.89
8.00' RT.

+30.89
20.00' RT.

+43.11
93.97' RT.

+47.98
92.00' RT.

+47.98
102.00' RT.

+23.19
93.92' RT.

+16.23
104.00' RT.

TURNER RD

R 22722'

R 22732'

R 50'

10'

PROPOSED R/W

CONST. SHARED USE PATH

+43.08
157.00' RT.

+23.22
157.00' RT.

+16.26
150.00' RT.

+16.27
157.00' RT.

PROPOSED TCE

PROPOSED R/W

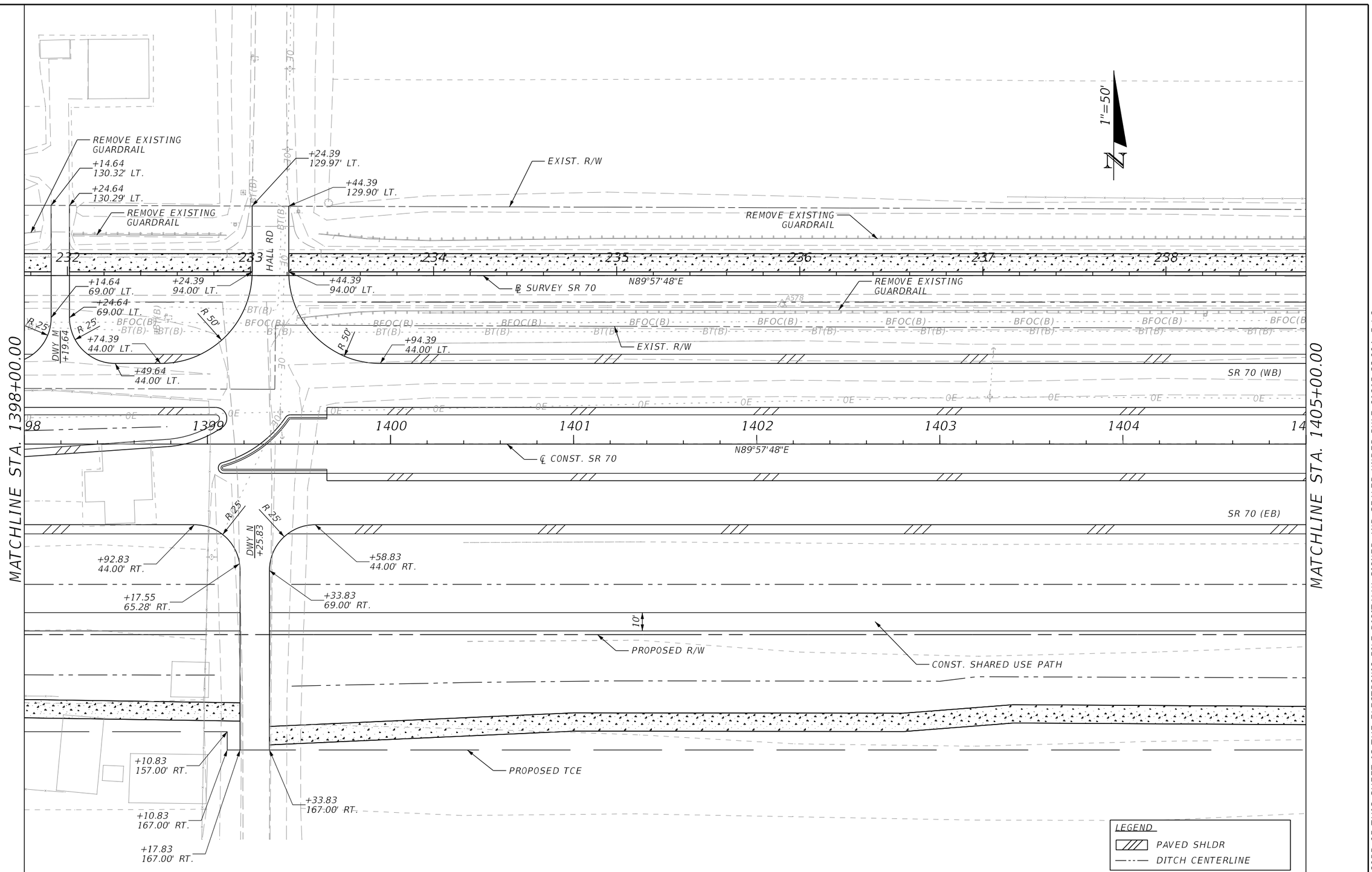
LEGEND
PAVED SHLDR
DITCH CENTERLINE

| REVISIONS | | | | ENGINEER OF RECORD | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | | ROADWAY PLAN (19) | SHEET NO. |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION | BRETT M. HENSLEY, P.E.<br>LICENSE NUMBER: 94514<br>HNTB CORPORATION<br>4651 SALISBURY ROAD, SUITE 320<br>JACKSONVILLE, FL 32256 | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | | | 70 | HIGHLANDS | 414506-4-52-01 | | |

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aserrano 2/7/2025 4:23:52 PM




| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (20)

SHEET NO.

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1"=50'

℄ SURVEY SR 70

EXIST. R/W

REMOVE EXISTING GUARDRAIL

239 240 241 242 243 244 245

N89°57'48"E

REMOVE EXISTING GUARDRAIL

EXIST. R/W

SR 70 (WB)

+12.48
44.00' LT.

R 440'

+84.09
49.87' LT.

R 65'

INV ELEV 37.31'

INV ELEV 39.60'

24" CPP #3

INV ELEV 40.09'

CONST. TYPE E CURB & GUTTER

MATCHLINE STA. 1405+00.00

1405 1406 1407 1408 1409 1410 1411 1412+00.00

MATCHLINE STA. 1412+00.00

N89°57'48"E

℄ CONST. SR 70

+15.00
3.00' LT.

+14.98
20.00' RT.

SR 70 (EB)

CONST. VARIABLE WIDTH TRAFFIC SEPARATOR (TYPE I)

+90.47
44.00' RT.

R 25'

10'

PROPOSED R/W

CONST. SHARED USE PATH

PROPOSED TCE

LEGEND

PAVED SHLDR

DITCH CENTERLINE

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (21)

SHEET NO.



c:\caddlib\pw\bhensley\sediv\d0241360\PLANRD08.dgn : CL - PLAN 5 [SHEET]
aserrano 2/7/2025 4:24:02 PM

REMOVE EXISTING GUARDRAIL
+43.27
175.30' LT.
+69.45
175.03' LT.
CR 29
STA. 246+33.78 BK
STA. 10+00.00 AH
+75.32
103.42' LT.
REMOVE EXISTING GUARDRAIL
+37.68
103.67' LT.
246
10
11
12
13
14
15
16
N89°57'48"E
℄ SURVEY SR 70
REMOVE EXISTING GUARDRAIL
R 65
R 65
+28.87
49.87' LT.
R 440'
END PROJECT FPID 414506-4
BEGIN PROJECT FPID 414506-5
STA. 1412+57.51
CONST. VARIABLE WIDTH TRAFFIC SEPARATOR (TYPE I)
SR 70 (WB)
12
1413
1414
1415
1416
1417
1418
14
N89°44'27"E
CONST. VARIABLE WIDTH TRAFFIC SEPARATOR (TYPE I)
℄ CONST. SR 70
SR 70 (EB)
MATCHLINE STA. 1412+00.00
PI STA. 1412+51
+60.23
44.00' RT.
+63.96
44.00' RT.
R 25'
R 25
R 25
R 25
+26.00
44.00' RT.
DWY O
+28.50
DWY P
+92.81
+01.02
69.85' RT.
END CONSTRUCTION FPID 414506-4
BEGIN CONSTRUCTION FPID 414506-5
STA. 1414+00.00
+88.95
68.15' RT.
+35.51
69.76' RT.
PROPOSED R/W
12'
CONST. SHARED USE PATH
+15.46
68.23' RT.
PROPOSED TCE
+37.80
171.93' RT.
+17.79
171.85' RT.
+05.65
166.80' RT.
+05.78
171.80' RT.
+04.51
172.00' RT.
+92.50
172.00' RT.
PROPOSED TCE
PROPOSED R/W
+49.32
172.00' RT.
PROPOSED R/W

LEGEND
PAVED SHLDR
DITCH CENTERLINE

1"=50'

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

BRETT M. HENSLEY, P.E.
LICENSE NUMBER: 94514
HNTB CORPORATION
4651 SALISBURY ROAD, SUITE 320
JACKSONVILLE, FL 32256

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# ROADWAY PLAN (22)

SHEET NO.

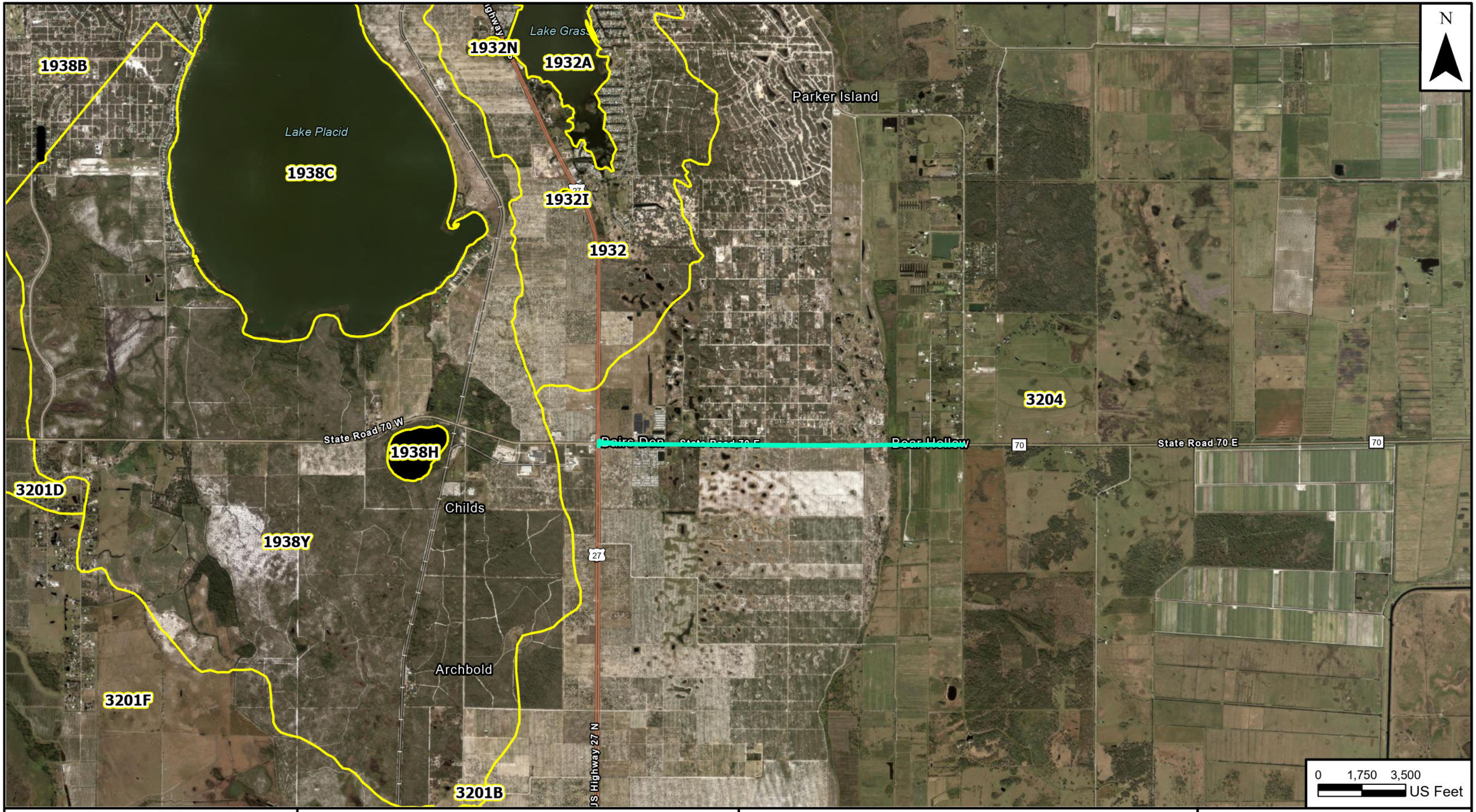


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# APPENDIX B

# EXHIBITS

I. WBIDs/Watershed Map
II. FDOT Straight Line Diagram
III. Soils Map
IV. FEMA Firm Map
V. ICPR Nodal Map
VI. Land Use Map
VII. Water Management District Location Map
VIII. Drainage Map Exhibit




**Prepared For : D1**

FDOT

**Location Hydraulic Report**

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

**Legend**

Project Limit
Project Limit

WBIDs
WBIDs

**Exhibit I**

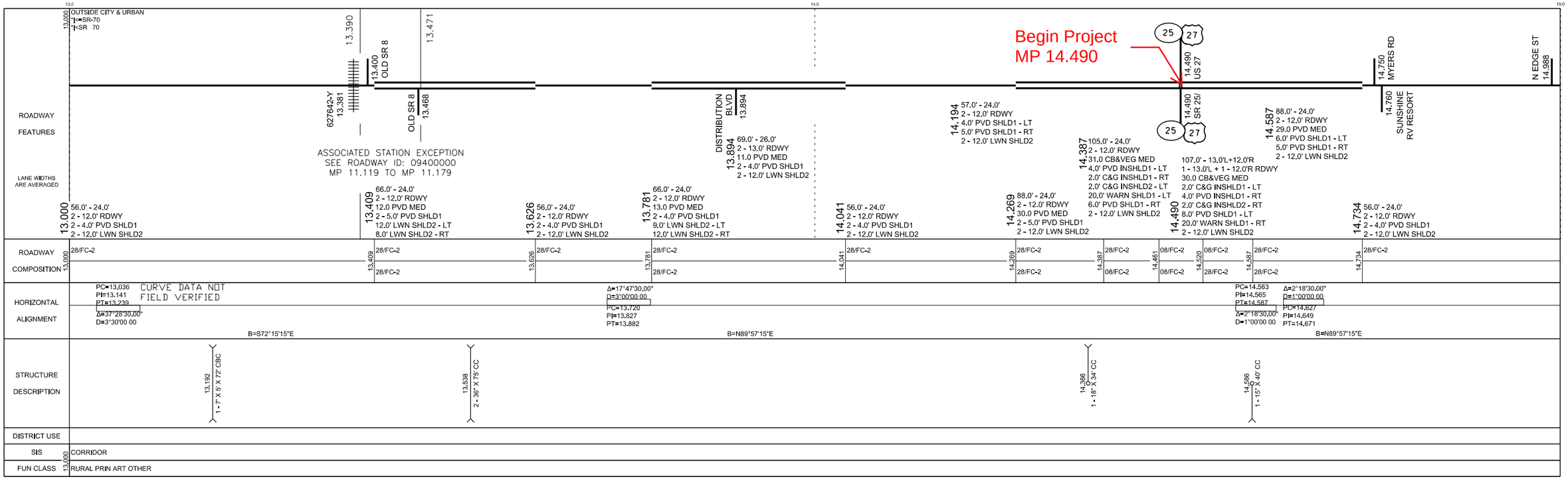
WBID/Watershed Map

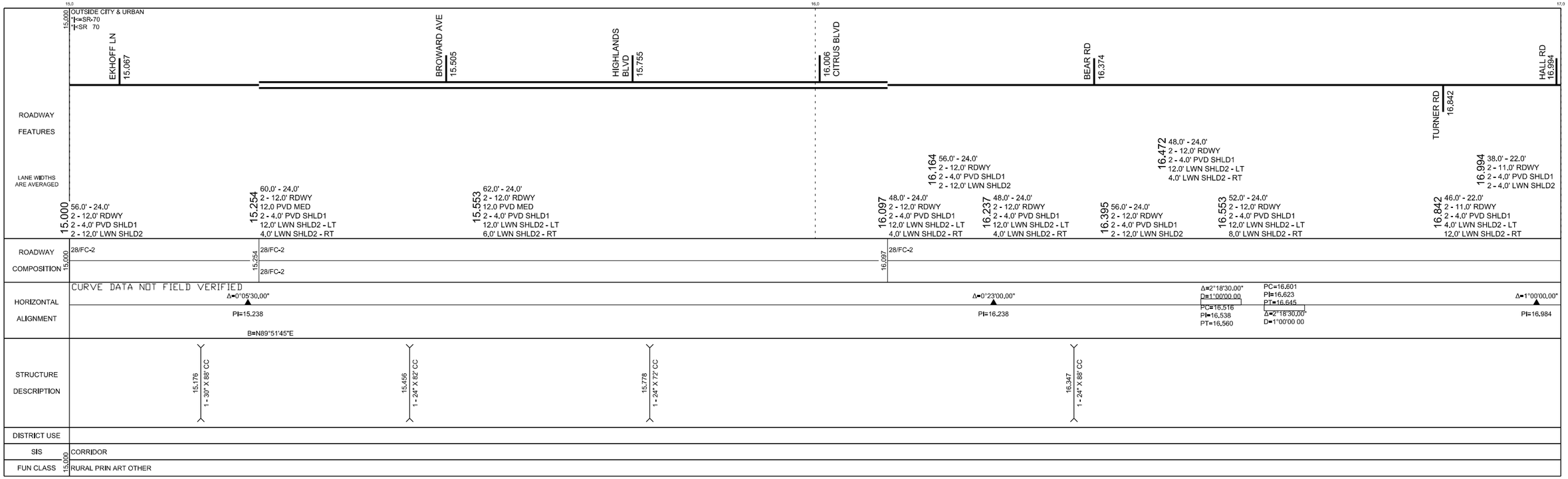
| | 5 YR INV | SLD REV | BMP | EMP | INV | SLD REV |
|---|---|---|---|---|---|---|
| DATE | 02/01/2023 | 04/17/2023 | 14.194 | 14.794 | 08/14/2024 | 8/20/24(CONST.) |
| BY | FTE | FTE | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

# STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

| SECTION STATUS | INT. or US ROUTE NO. | STATE ROAD NO. | COUNTY | DISTRICT | ROADWAY ID | SHEET NO: |
|---|---|---|---|---|---|---|
| 02 | | SR 70 | HIGHLANDS | 01 | 09060000 | 3 OF 7 |




Version: 1.4.2.27 04/17/2023

| | 5 YR INV | SLD REV | BMP | EMP | INV | SLD REV |
|---|---|---|---|---|---|---|
| DATE | 02/01/2023 | 04/17/2023 | | | | |
| BY | FTE | FTE | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

# STRAIGHT LINE DIAGRAM OF ROAD INVENTORY

| SECTION STATUS | INT. or US ROUTE NO. | STATE ROAD NO. | COUNTY | DISTRICT | ROADWAY ID | SHEET NO. |
|---|---|---|---|---|---|---|
| 02 | | SR 70 | HIGHLANDS | 01 | 09060000 | 4 OF 7 |

17.0 | 18.0 | 19.0 | 20.0

**ROADWAY FEATURES**

17.000 OUTSIDE CITY & URBAN
"|<=SR-70
"|<SR 70

29
CR 29
17.245

End Project
MP 17.245

LONESOME ISLAND RD
19.791

LANE WIDTHS ARE AVERAGED

17.000
38.0' - 22.0'
2 - 11.0' RDWY
2 - 4.0' PVD SHLD1
2 - 4.0' LWN SHLD2

18.207
38.0' - 22.0'
2 - 11.0' RDWY
2 - 4.0' WARN SHLD1
2 - 4.0' LWN SHLD2

**ROADWAY COMPOSITION**

17.000 28/FC-2

**HORIZONTAL ALIGNMENT**

CURVE DATA NOT FIELD VERIFIED

PI=17.543
Δ=2°00'00.00"
B=S88°00'00"E

PI=18.203
Δ=3°00'00.00"
B=N89°00'00"E

PI=18.688
Δ=3°00'00.00"
B=S88°00'00"E

PI=19.080
Δ=2°00'00.00"

PI=19.483
Δ=2°00'00.00"
B=N88°00'00"E

**STRUCTURE DESCRIPTION**

17.900
1 - 36" X 42" CMP

19.251
1 - 120" X 60" CMP

**DISTRICT USE**

**SIS**

17.000 CORRIDOR

**FUN CLASS**

17.000 RURAL PRIN ART OTHER

20.0 | 21.0 | 22.0 | 23.0

**ROADWAY FEATURES**

20.000 OUTSIDE CITY & URBAN
"|<=SR-70
"|<SR 70

DENCO RD
20.288

21.038
SOUTHWIND RD

MARCIA GROVE RD
21.269

CANAL
HARNEY POND

LANE WIDTHS ARE AVERAGED

20.000
38.0' - 22.0'
2 - 11.0' RDWY
2 - 4.0' WARN SHLD1
2 - 4.0' LWN SHLD2

21.269
46.0' - 22.0'
2 - 11.0' RDWY
2 - 4.0' WARN SHLD1
4.0' LWN SHLD2 - LT
12.0' LWN SHLD2 - RT

21.534
46.0' - 22.0'
2 - 11.0' RDWY
2 - 4.0' PVD SHLD1
4.0' LWN SHLD2 - LT
12.0' LWN SHLD2 - RT

21.742
38.0' - 22.0'
2 - 11.0' RDWY
2 - 4.0' PVD SHLD1
2 - 4.0' LWN SHLD2

22.254
48.0' - 22.0'
2 - 11.0' RDWY
2 - 8.0' WARN SHLD1
2 - 5.0' LWN SHLD2

22.409
35.0' - 20.0'
2 - 10.0' RDWY
2 - 4.0' WARN SHLD1
3.0' LWN SHLD2 - LT
4.0' LWN SHLD2 - RT

**ROADWAY COMPOSITION**

20.000 28/FC-2

**HORIZONTAL ALIGNMENT**

CURVE DATA NOT FIELD VERIFIED
PI=20.015
Δ=2°00'00.00"
B=N90°00'00"E

**STRUCTURE DESCRIPTION**

21.017
2 - 120" X 60" CMP

22.320
#0920
121.4'
BR
22.343

22.645
1 - 88" X 60" CMP

**DISTRICT USE**

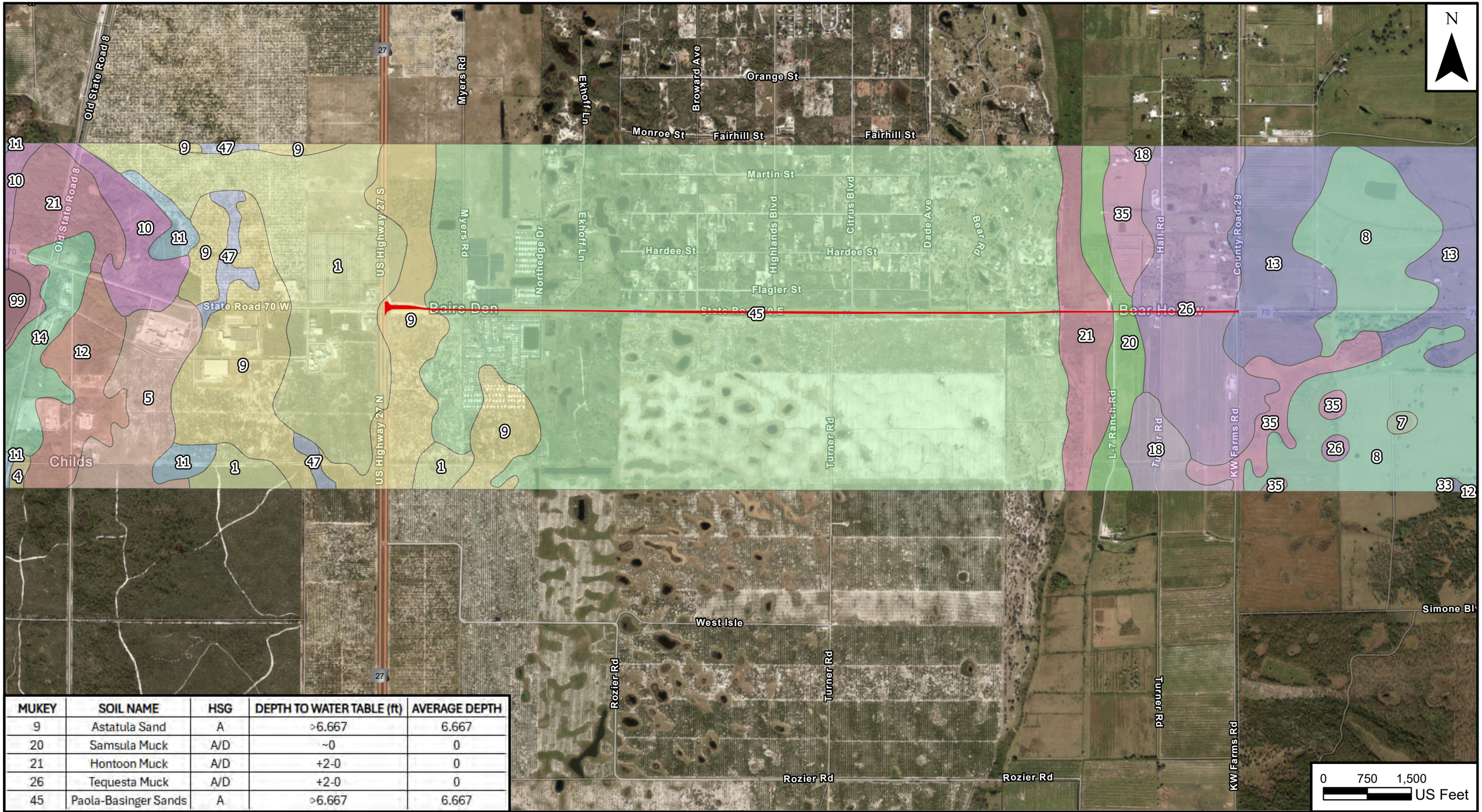
**SIS**

20.000 CORRIDOR

**FUN CLASS**

20.000 RURAL PRIN ART OTHER

Version: 1.4.2.27 04/17/2023




| MUKEY | SOIL NAME | HSG | DEPTH TO WATER TABLE (ft) | AVERAGE DEPTH |
|---|---|---|---|---|
| 9 | Astatula Sand | A | >6.667 | 6.667 |
| 20 | Samsula Muck | A/D | ~0 | 0 |
| 21 | Hontoon Muck | A/D | +2-0 | 0 |
| 26 | Tequesta Muck | A/D | +2-0 | 0 |
| 45 | Paola-Basinger Sands | A | >6.667 | 6.667 |

**Prepared For : D1**

FDOT

## Location Hydraulic Report

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

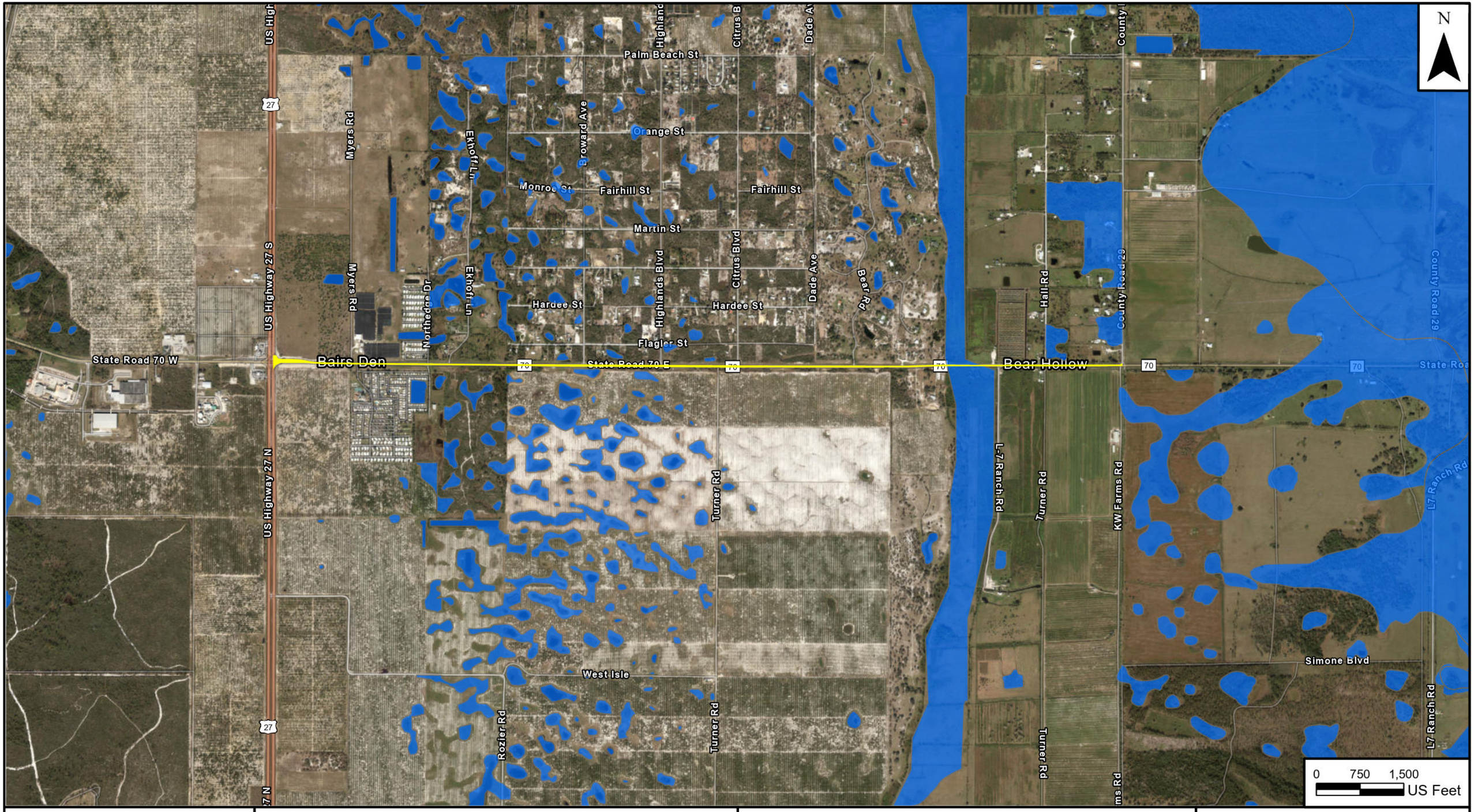
**Legend**

**Project Limit**
- Project Limit

**Soil MUKEY & HSG**
- 1,A
- 10,A/D
- 11,A
- 12,A/D
- 13,A/D
- 14,A
- 18,C/D
- 2,A
- 20,A/D
- 21,A/D
- 24,C/D
- 25,C/D
- 26,A/D
- 28,A
- 33,A/D
- 35,A/D
- 38,A/D
- 4,A
- 45,A
- 47,A
- 5,A
- 6,A
- 7,A/D
- 8,B/D
- 9,A
- 99,WATER

**Exhibit III**

Soils Map




**Prepared For : D1**

FDOT

## Location Hydraulic Report

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

**Legend**

**Project Limit**

Project Limit

**FEMA Flood Map**

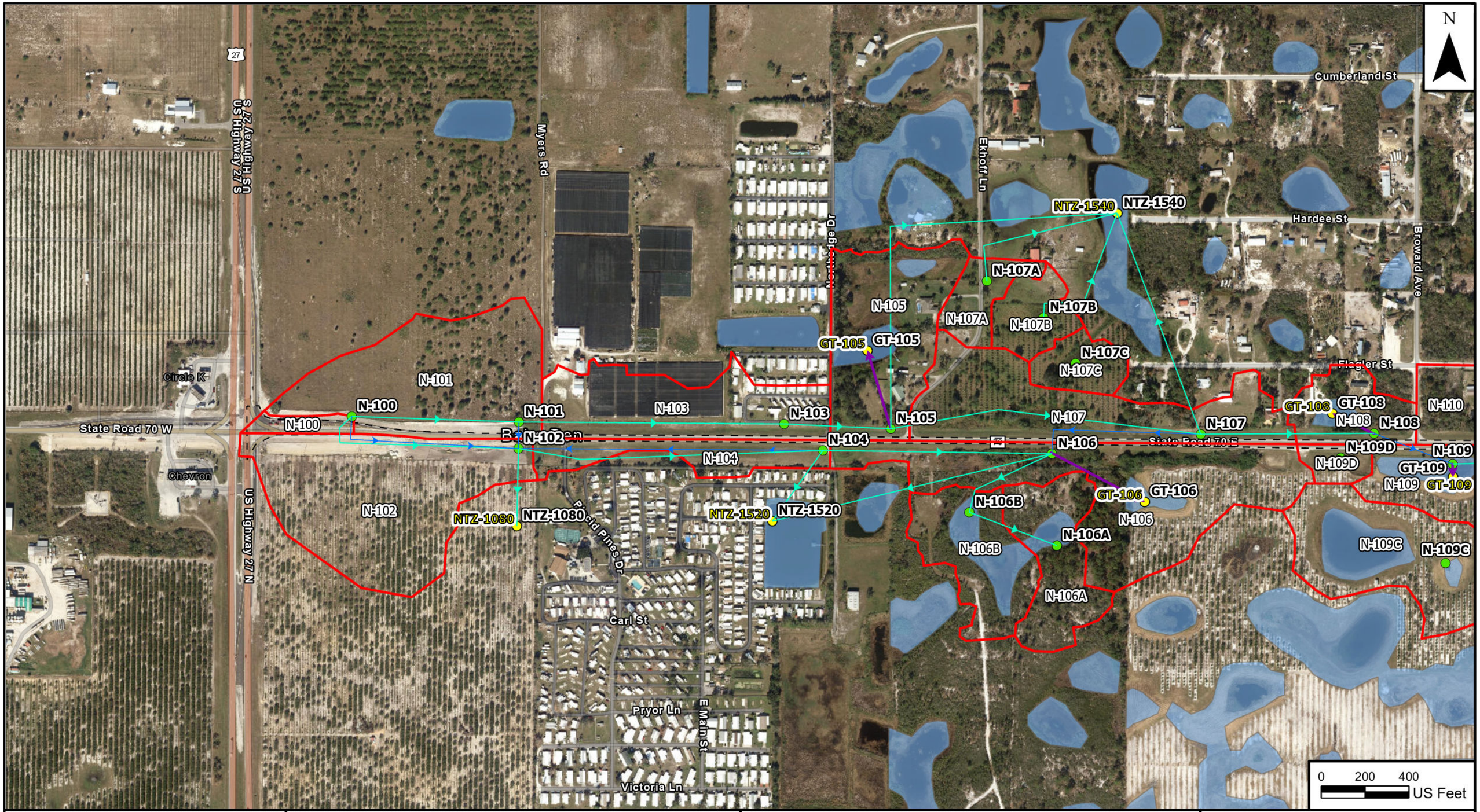
Flood Zones

A

AE

## Exhibit IV

FEMA Firm Map
Panels 12055C0529C, 12055C0533C,
(Effective 11-18-15)




**Prepared For : D1**

FDOT

## Location Hydraulic Report

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

**Legend**

**HYDRO-STRUCTURES**
STRUCTURE TYPES
- Pipe
- Weir
- Percolation

**ICPR NODES**
NODE TYPES
- Stage/Area
- Time/Stage

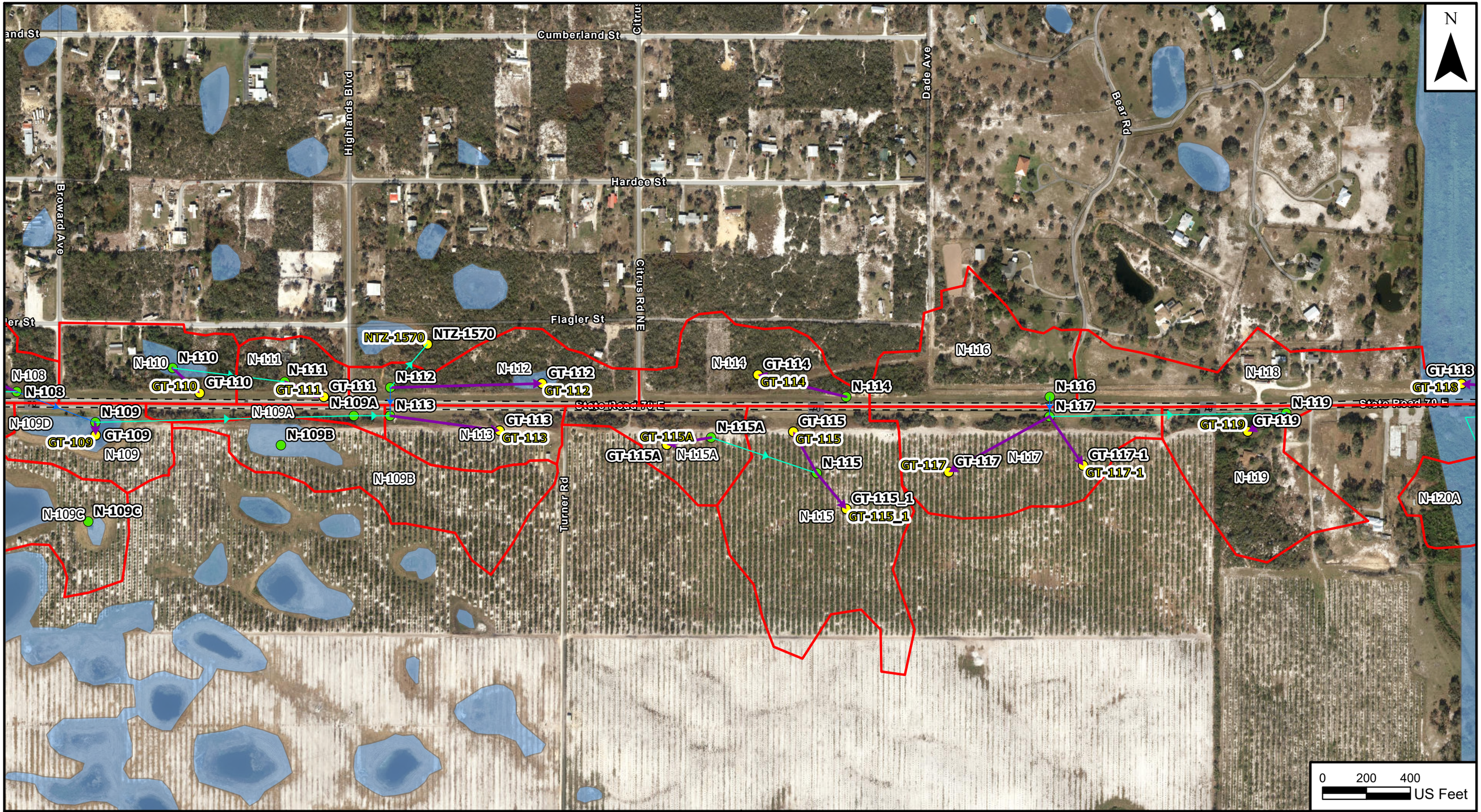
**ICPR BASINS**
- ICPR BASINS

**Project Limit**
- Project Limit

**FEMA**
Flood Zones
- A
- AE

## Exhibit V

ICPR Model Segment 13




**Prepared For : D1**

FDOT

## Location Hydraulic Report

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

**Legend**

**HYDRO-STRUCTURES**
STRUCTURE TYPES
- Pipe
- Weir
- Percolation

**ICPR NODES**
NODE TYPES
- Stage/Area
- Time/Stage

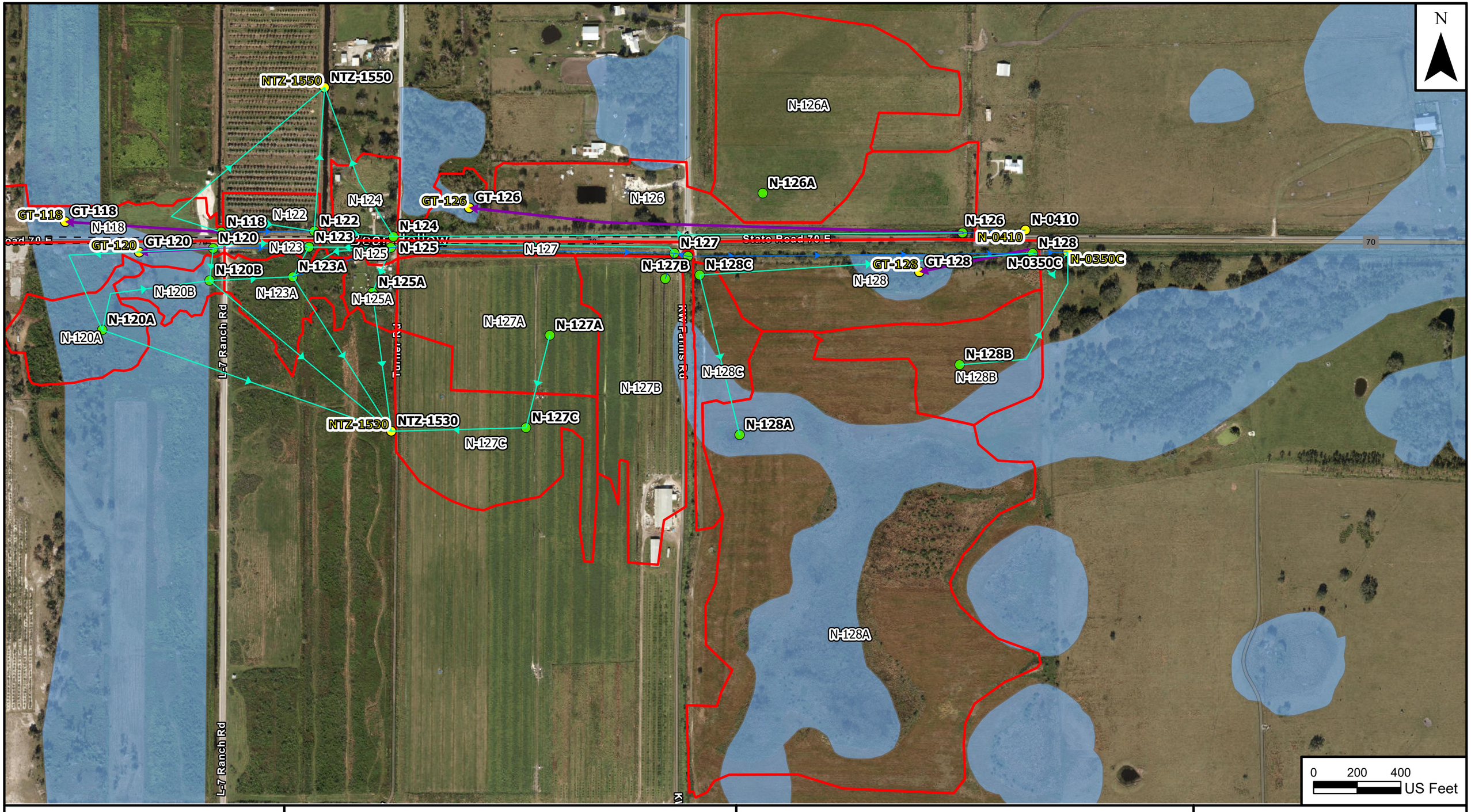
**ICPR BASINS**
- ICPR BASINS

**Project Limit**
- Project Limit

**FEMA**
Flood Zones
- A
- AE

## Exhibit V

ICPR Model Segment 13




**Prepared For : D1**

FDOT

## Location Hydraulic Report

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

**Legend**

**HYDRO-STRUCTURES**
STRUCTURE TYPES
- Pipe
- Weir
- Percolation

**ICPR NODES**
NODE TYPES
- Stage/Area
- Time/Stage

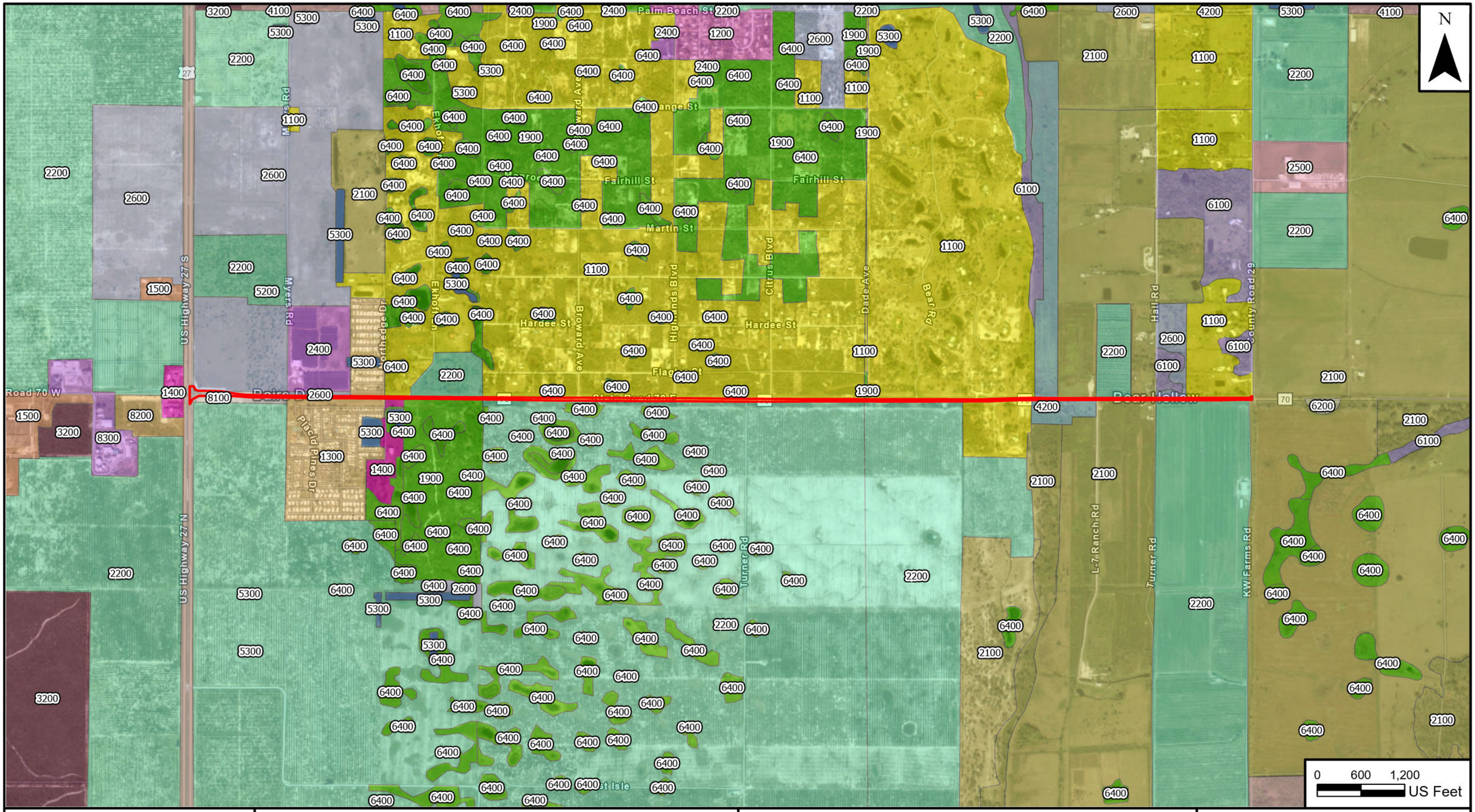
**ICPR BASINS**
- ICPR BASINS

**Project Limit**
- Project Limit

**FEMA**
Flood Zones
- A
- AE

## Exhibit V

ICPR Model Segment 13




**Prepared For : D1**

FDOT

## Location Hydraulic Report

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

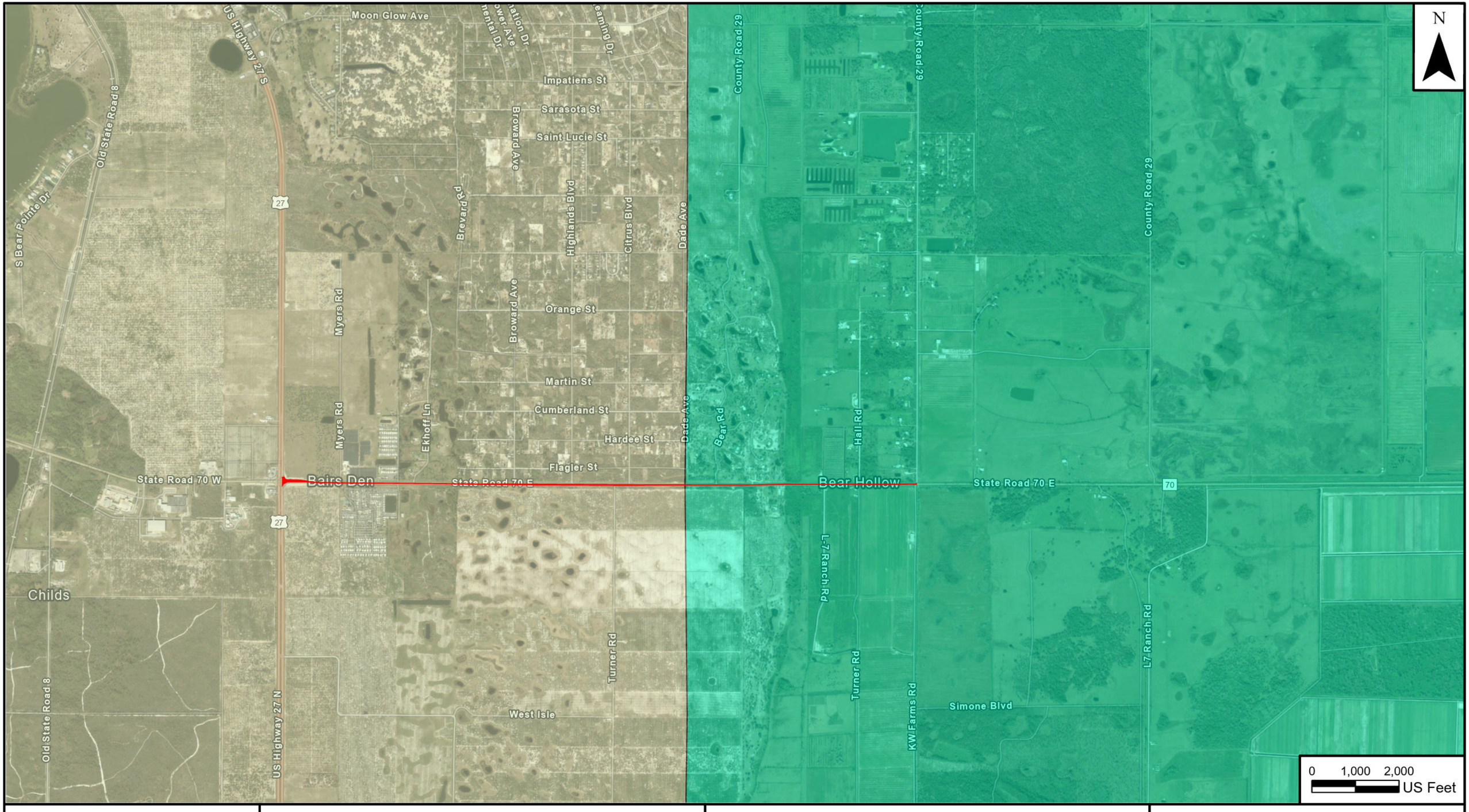
**Legend**

**Project Limit**
- Project Limit

**Land Use**
- 1100,Residential Low Density
- 1200,Residential Medium Density
- 1300,Residential High Density
- 1400,Commercial and Services
- 1500,Industrial
- 1900,Open Land
- 2100,Cropland and Pastureland
- 2200,Tree Crops
- 2400,Nurseries and Vineyards
- 2500,Specialty Farms
- 2600,Other Open Lands <Rural>
- 3200,Shrub and Brushland
- 4100,Upland Coniferous Forests
- 4200,Upland Hardwood Forests
- 4400,Tree Plantations
- 5200,Lakes
- 5300,Reservoirs
- 6100,Wetland Hardwood Forests
- 6200,Wetland Coniferous Forests
- 6300,Wetland Forested Mixed
- 6400,Vegetated Non-Forested Wetlands
- 8100,Transportation
- 8200,Communications
- 8300,Utilities

**Exhibit VI**

Existing Land Use Map




**Prepared For : D1**

FDOT

**Location Hydraulic Report**

S.R. 70 from US 27 to County Road 29
(M.P. 14.490-17.245)
Highlands County, Florida
FPID: 414506-4-52-01

**Legend**

WMD
- SFWMD
- SWFWMD

Project Limit
- Project Limit

**Exhibit VII**

Water Management District
Location Map




LEGEND

- FLOW DIRECTION
- BASIN BOUNDARY
- PARCEL LINE
- FEMA FLOODPLAIN

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |


ENGINEER OF RECORD

HONG TING CHIU, P.E.
P.E. LICENSE NUMBER 80386
HNTB CORPORATION
201 N FRANKLIN STREET SUITE 1200
TAMPA, FL 33602


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# EXHIBIT VIII
# FPC DRAINAGE MAP

SHEET NO. 1

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fescobar 5/5/2026 10:47:29 AM




| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

HONG TING CHIU, P.E.
P.E. LICENSE NUMBER 80386
HNTB CORPORATION
201 N FRANKLIN STREET SUITE 1200
TAMPA, FL 33602

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# EXHIBIT VIII
# FPC DRAINAGE MAP

SHEET NO.
2

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fescobar 5/5/2026 10:47:39 AM

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| | | | |

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HONG TING CHIU, P.E.
P.E. LICENSE NUMBER 80386
HNTB CORPORATION
201 N FRANKLIN STREET SUITE 1200
TAMPA, FL 33602

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# EXHIBIT VIII
# FPC DRAINAGE MAP

SHEET NO. 3

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

c:\caddlib\pw\hntb_awaller\sediv\d0260826\DRMPRD1395.dgn : CL-8 - PLAN 3 [SHEET]
fescobar 5/5/2026 10:47:49 AM




LEGEND

- FLOW DIRECTION
- BASIN BOUNDARY
- PARCEL LINE
- WETLAND LINE

| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

HONG TING CHIU, P.E.
P.E. LICENSE NUMBER 80386
HNTB CORPORATION
201 N FRANKLIN STREET SUITE 1200
TAMPA, FL 33602

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# EXHIBIT VIII
# FPC DRAINAGE MAP

SHEET NO. 4

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

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ZONE A

ZONE A

0 50 200
Feet

END PROJECT
1412+57.51

EXIST. ROW

122

124

126

225

230

235

240

245

SR 70

123

125

127

1390

1395

1400

1405

1410

℄ CONST. SR 70

120B

123A

125A

127A

PROP. ROW

END CONSTRUCTION
1414+00.00

127B

128C

ZONE A

127C

LEGEND

- FLOW DIRECTION
- BASIN BOUNDARY
- PARCEL LINE
- WETLAND LINE
- FEMA FLOODPLAIN

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |


ENGINEER OF RECORD

HONG TING CHIU, P.E.
P.E. LICENSE NUMBER 80386
HNTB CORPORATION
201 N FRANKLIN STREET SUITE 1200
TAMPA, FL 33602

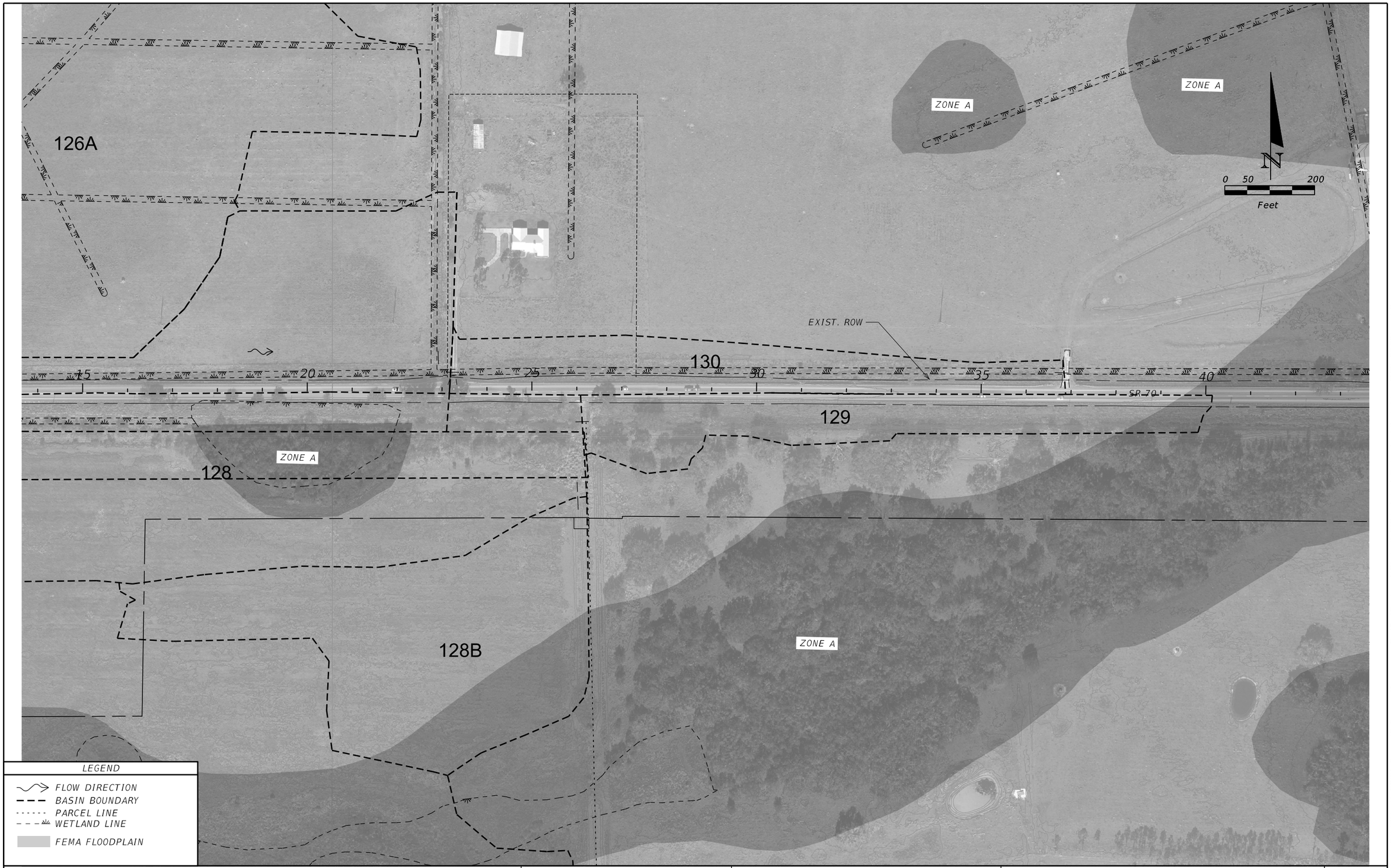

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# EXHIBIT VIII
# FPC DRAINAGE MAP

SHEET NO. 5


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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

ENGINEER OF RECORD

HONG TING CHIU, P.E.
P.E. LICENSE NUMBER 80386
HNTB CORPORATION
201 N FRANKLIN STREET SUITE 1200
TAMPA, FL 33602

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| 70 | HIGHLANDS | 414506-4-52-01 |

# EXHIBIT VIII
# FPC DRAINAGE MAP

SHEET NO. 6

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

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# APPENDIX C

# CROSS DRAIN ANALYSIS

# HY-8 Culvert Analysis Report – CD-9

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 10.36 cfs

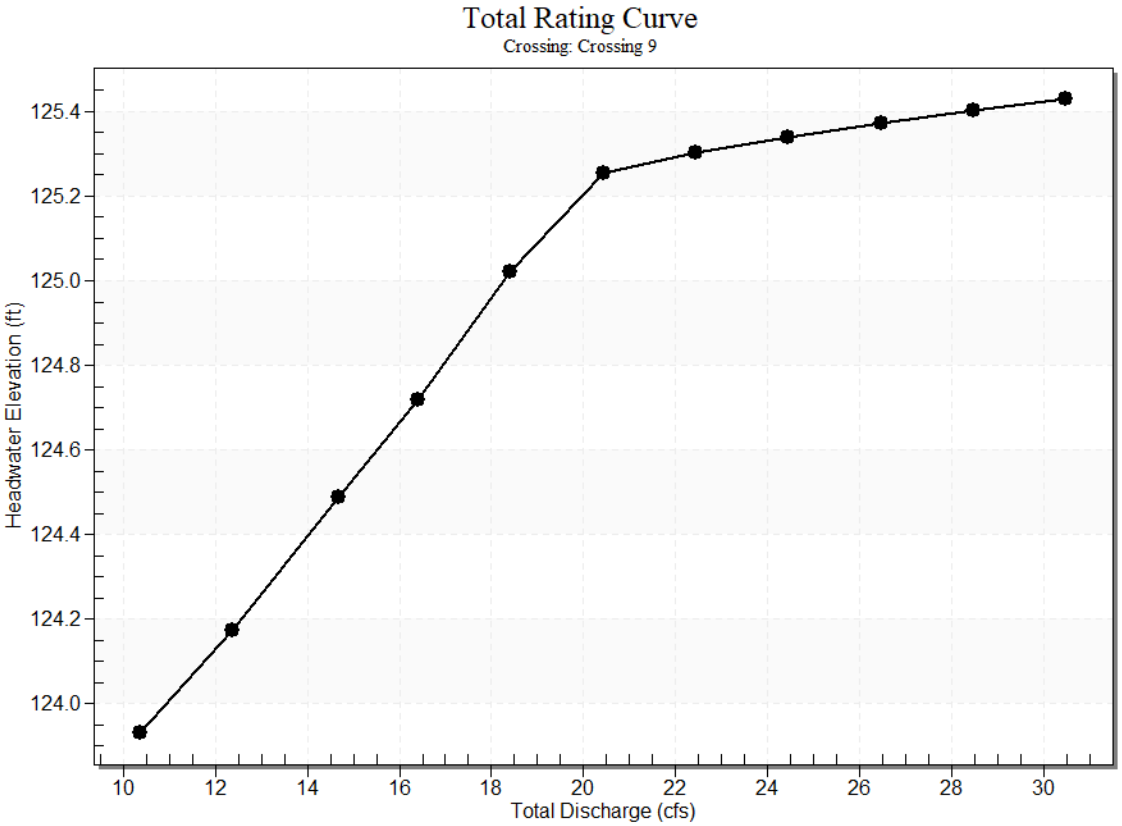
Design Flow: 14.69 cfs

Maximum Flow: 30.48 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 9**

| Headwater Elevation (ft) | Total Discharge (cfs) | Pre CD-9 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **123.93** | 10.36 | 10.36 | 0.00 | 1 |
| **124.17** | 12.37 | 12.37 | 0.00 | 1 |
| **124.49** | 14.69 | 14.69 | 0.00 | 1 |
| **124.72** | 16.40 | 16.40 | 0.00 | 1 |
| **125.02** | 18.41 | 18.41 | 0.00 | 1 |
| **125.25** | 20.42 | 19.77 | 0.62 | 17 |
| **125.30** | 22.43 | 19.91 | 2.51 | 7 |
| **125.34** | 24.44 | 19.98 | 4.46 | 6 |
| **125.37** | 26.46 | 20.01 | 6.43 | 5 |
| **125.40** | 28.47 | 20.03 | 8.43 | 5 |
| **125.43** | 30.48 | 20.04 | 10.42 | 4 |
| **125.22** | 19.62 | 19.62 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 9




## Culvert Data: Pre CD-9

### Table 1 - Culvert Summary Table: Pre CD-9

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **10.36 cfs** | 10.36 cfs | 123.93 | 1.75 | 4.272 | 4-FFf | 1.47 | 1.15 | 2.00 | 4.02 | 3.30 | 0.00 |
| **12.37 cfs** | 12.37 cfs | 124.17 | 2.00 | 4.512 | 4-FFf | 2.00 | 1.26 | 2.00 | 4.08 | 3.94 | 0.00 |
| **14.69 cfs** | 14.69 cfs | 124.49 | 2.32 | 4.829 | 4-FFf | 2.00 | 1.38 | 2.00 | 4.15 | 4.68 | 0.00 |
| **16.40 cfs** | 16.40 cfs | 124.72 | 2.59 | 5.060 | 4-FFf | 2.00 | 1.46 | 2.00 | 4.17 | 5.22 | 0.00 |
| **18.41 cfs** | 18.41 cfs | 125.02 | 2.96 | 5.362 | 4-FFf | 2.00 | 1.54 | 2.00 | 4.20 | 5.86 | 0.00 |
| **20.42 cfs** | 19.77 cfs | 125.25 | 3.23 | 5.593 | 4-FFf | 2.00 | 1.60 | 2.00 | 4.23 | 6.29 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **22.43 cfs** | 19.91 cfs | 125.30 | 3.25 | 5.642 | 4-FFf | 2.00 | 1.60 | 2.00 | 4.25 | 6.34 | 0.00 |
| **24.44 cfs** | 19.98 cfs | 125.34 | 3.27 | 5.679 | 4-FFf | 2.00 | 1.61 | 2.00 | 4.28 | 6.36 | 0.00 |
| **26.46 cfs** | 20.01 cfs | 125.37 | 3.28 | 5.712 | 4-FFf | 2.00 | 1.61 | 2.00 | 4.31 | 6.37 | 0.00 |
| **28.47 cfs** | 20.03 cfs | 125.40 | 3.28 | 5.742 | 4-FFf | 2.00 | 1.61 | 2.00 | 4.33 | 6.38 | 0.00 |
| **30.48 cfs** | 20.04 cfs | 125.43 | 3.28 | 5.769 | 4-FFf | 2.00 | 1.61 | 2.00 | 4.36 | 6.38 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

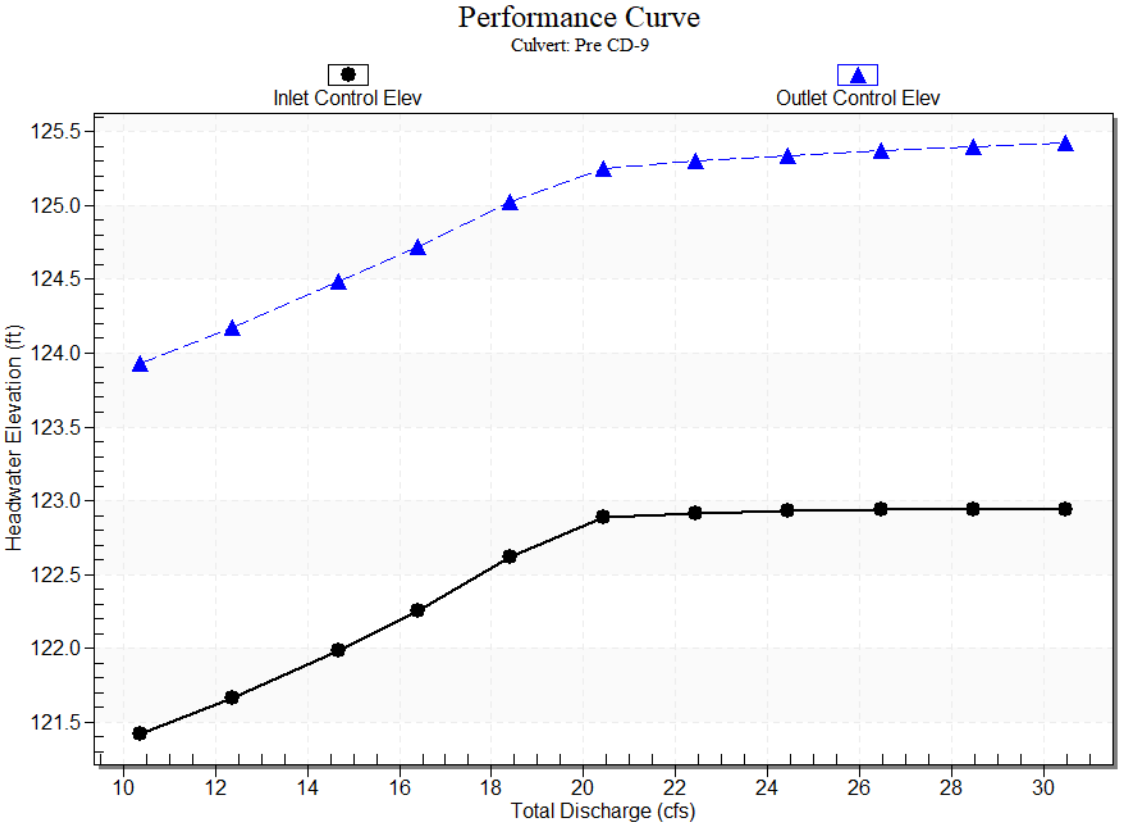
Inlet Elevation (invert): 119.66 ft,

Outlet Elevation (invert): 119.49 ft

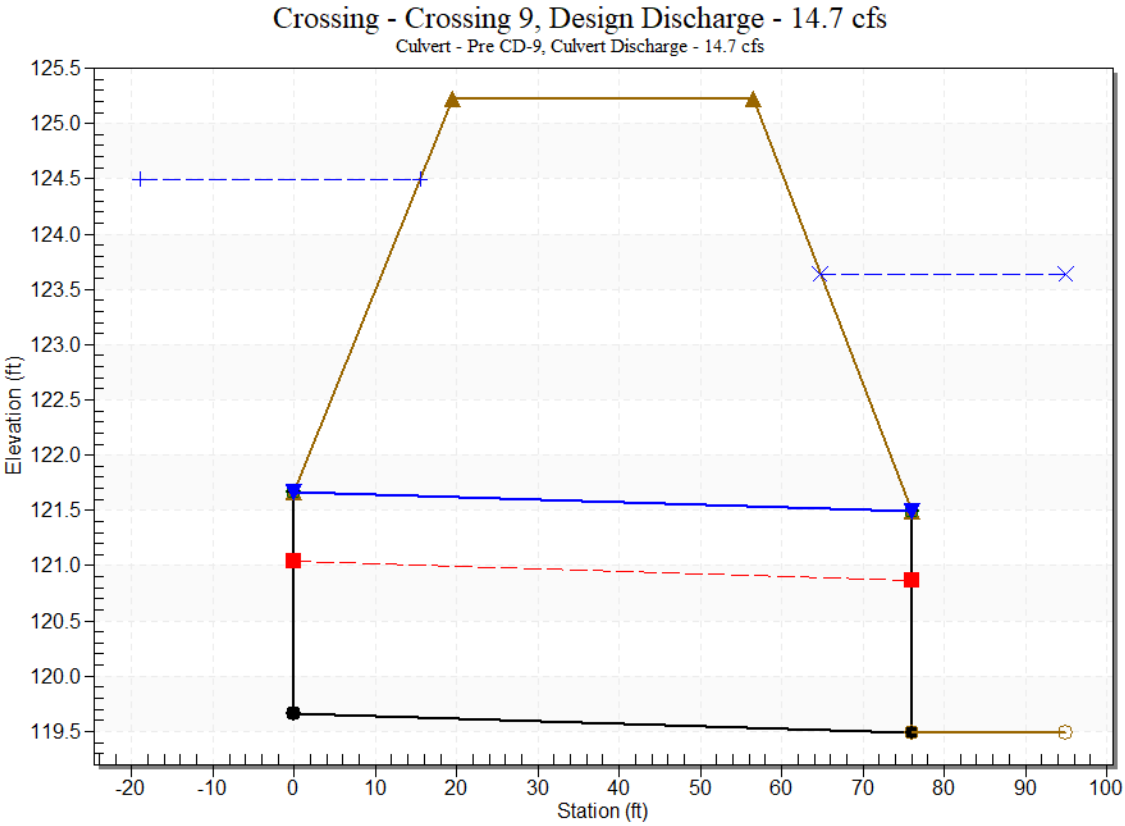
Culvert Length: 76.00 ft,

Culvert Slope: 0.0022

### Culvert Performance Curve Plot: Pre CD-9



## Water Surface Profile Plot for Culvert: Pre CD-9




## Site Data - Pre CD-9

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 119.66 ft

Outlet Station: 76.00 ft

Outlet Elevation: 119.49 ft

Number of Barrels: 1

## Culvert Data Summary - Pre CD-9

Barrel Shape: Circular

Barrel Diameter: 2.00 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Mitered to Conform to Slope

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 9

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 9)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **10.36** | 123.51 | 123.51 | 0.00 |
| **14.69** | 123.64 | 123.64 | 0.00 |
| **30.48** | 123.85 | 123.85 | 0.00 |

## Tailwater Channel Data - Crossing 9

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 9

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 37.00 ft

Crest Elevation: 125.22 ft

Roadway Surface: Paved

Roadway Top Width: 37.00 ft

# HY-8 Culvert Analysis Report – CD-10

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 24.32 cfs

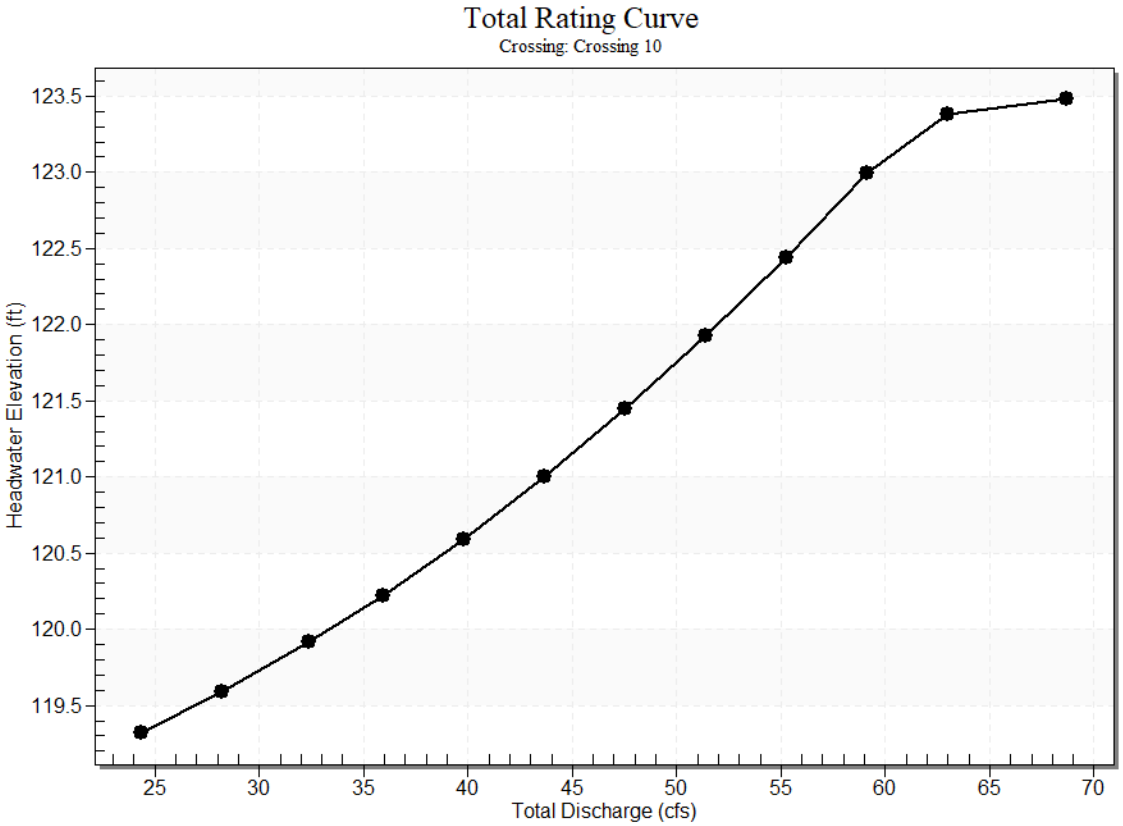
Design Flow: 32.39 cfs

Maximum Flow: 62.98 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 10**

| Headwater Elevation (ft) | Total Discharge (cfs) | Pre CD-10 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **119.32** | 24.32 | 24.32 | 0.00 | 1 |
| **119.59** | 28.19 | 28.19 | 0.00 | 1 |
| **119.91** | 32.39 | 32.39 | 0.00 | 1 |
| **120.22** | 35.92 | 35.92 | 0.00 | 1 |
| **120.59** | 39.78 | 39.78 | 0.00 | 1 |
| **121.00** | 43.65 | 43.65 | 0.00 | 1 |
| **121.44** | 47.52 | 47.52 | 0.00 | 1 |
| **121.92** | 51.38 | 51.38 | 0.00 | 1 |
| **122.44** | 55.25 | 55.25 | 0.00 | 1 |
| **122.99** | 59.11 | 59.11 | 0.00 | 1 |
| **123.38** | 62.98 | 61.67 | 1.26 | 19 |
| **123.33** | 61.38 | 61.38 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 10




## Culvert Data: Pre CD-10

### Table 1 - Culvert Summary Table: Pre CD-10

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **24.32 cfs** | 24.32 cfs | 119.32 | 2.54 | 4.692 | 4-FFf | 2.50 | 1.68 | 2.50 | 4.16 | 4.95 | 0.00 |
| **28.19 cfs** | 28.19 cfs | 119.59 | 2.85 | 4.956 | 4-FFf | 2.50 | 1.81 | 2.50 | 4.18 | 5.74 | 0.00 |
| **32.39 cfs** | 32.39 cfs | 119.91 | 3.22 | 5.284 | 4-FFf | 2.50 | 1.94 | 2.50 | 4.20 | 6.60 | 0.00 |
| **35.92 cfs** | 35.92 cfs | 120.22 | 3.57 | 5.591 | 4-FFf | 2.50 | 2.03 | 2.50 | 4.22 | 7.32 | 0.00 |
| **39.78 cfs** | 39.78 cfs | 120.59 | 4.01 | 5.963 | 4-FFf | 2.50 | 2.12 | 2.50 | 4.24 | 8.10 | 0.00 |
| **43.65 cfs** | 43.65 cfs | 121.00 | 4.48 | 6.370 | 4-FFf | 2.50 | 2.20 | 2.50 | 4.26 | 8.89 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **47.52 cfs** | 47.52 cfs | 121.44 | 5.00 | 6.814 | 4-FFf | 2.50 | 2.27 | 2.50 | 4.27 | 9.68 | 0.00 |
| **51.38 cfs** | 51.38 cfs | 121.92 | 5.55 | 7.293 | 4-FFf | 2.50 | 2.32 | 2.50 | 4.29 | 10.47 | 0.00 |
| **55.25 cfs** | 55.25 cfs | 122.44 | 6.13 | 7.809 | 4-FFf | 2.50 | 2.36 | 2.50 | 4.31 | 11.26 | 0.00 |
| **59.11 cfs** | 59.11 cfs | 122.99 | 6.75 | 8.360 | 4-FFf | 2.50 | 2.39 | 2.50 | 4.33 | 12.04 | 0.00 |
| **62.98 cfs** | 61.67 cfs | 123.38 | 7.17 | 8.751 | 4-FFf | 2.50 | 2.29 | 2.50 | 4.35 | 12.56 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

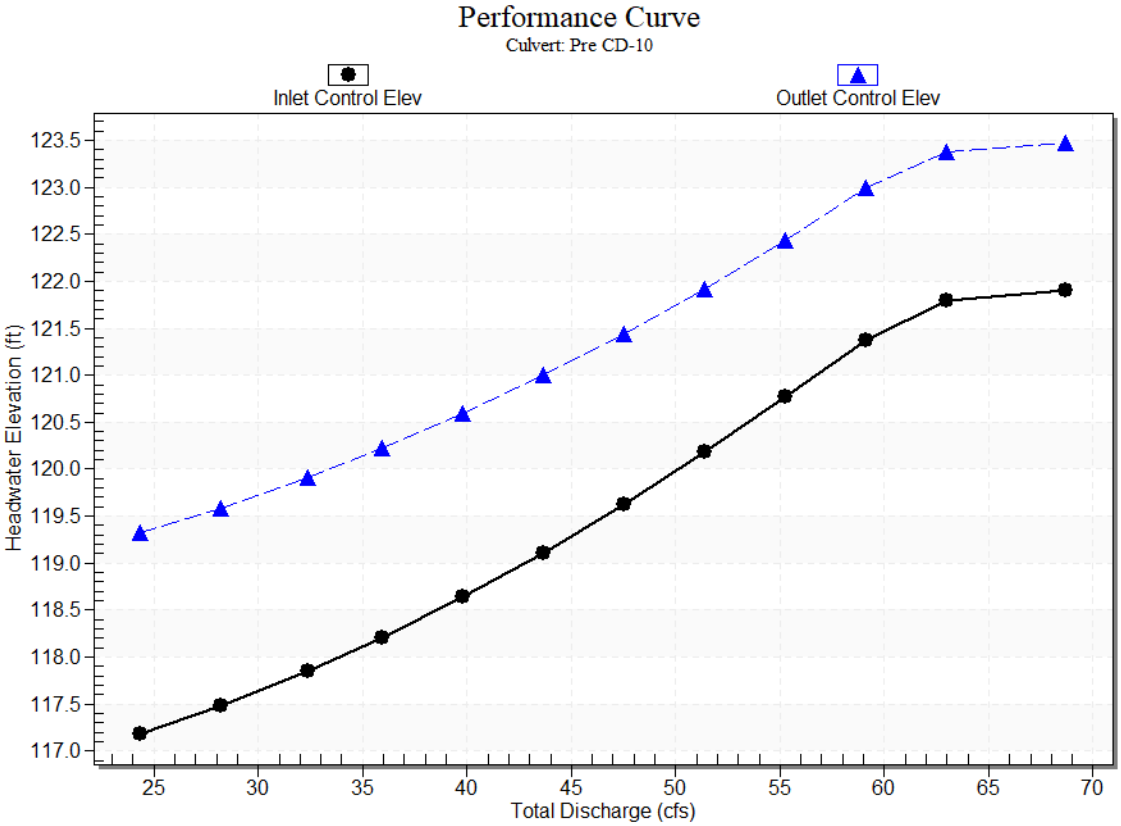
Inlet Elevation (invert): 114.63 ft,

Outlet Elevation (invert): 114.45 ft

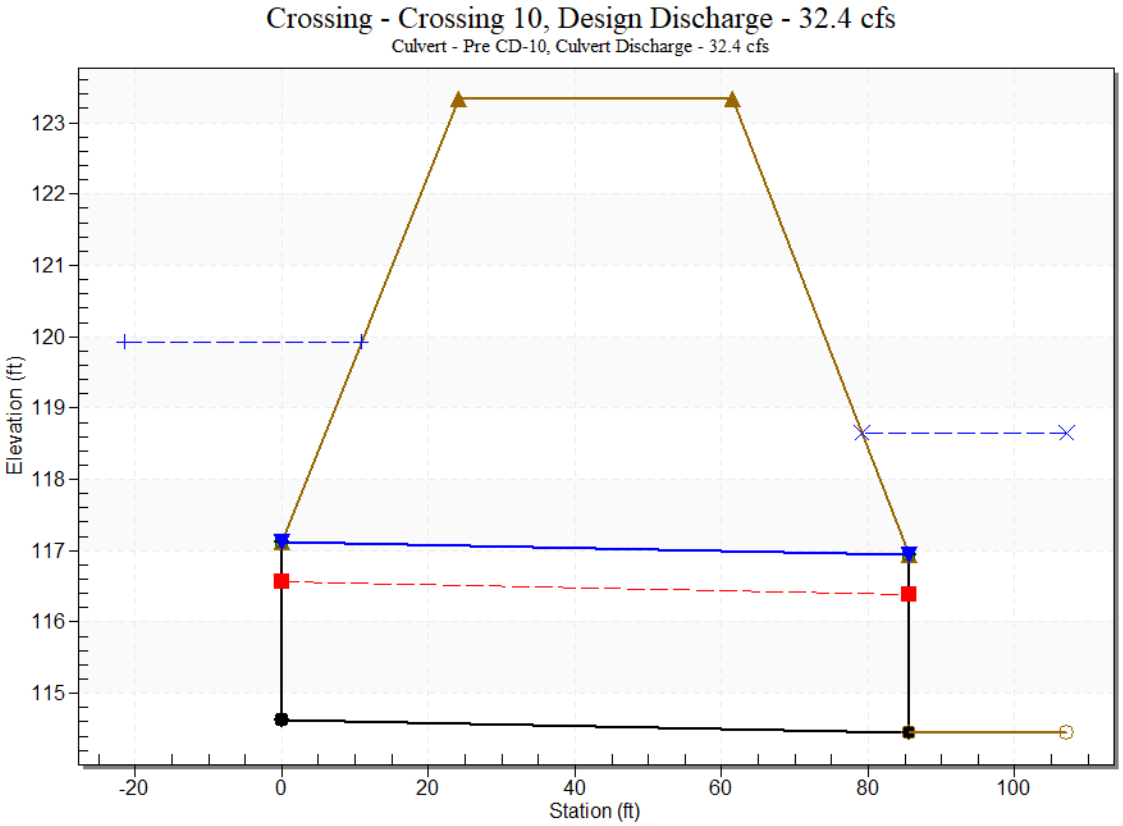
Culvert Length: 85.62 ft,

Culvert Slope: 0.0021

### Culvert Performance Curve Plot: Pre CD-10



## Water Surface Profile Plot for Culvert: Pre CD-10




## Site Data - Pre CD-10

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 114.63 ft

Outlet Station: 85.62 ft

Outlet Elevation: 114.45 ft

Number of Barrels: 1

## Culvert Data Summary - Pre CD-10

Barrel Shape: Circular

Barrel Diameter: 2.50 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 10

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 10)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **24.32** | 118.61 | 118.61 | 0.00 |
| **32.39** | 118.65 | 118.65 | 0.00 |
| **62.98** | 118.80 | 118.80 | 0.00 |

## Tailwater Channel Data - Crossing 10

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 10

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 37.40 ft

Crest Elevation: 123.33 ft

Roadway Surface: Paved

Roadway Top Width: 37.40 ft

# HY-8 Culvert Analysis Report – CD-11

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 8.23 cfs

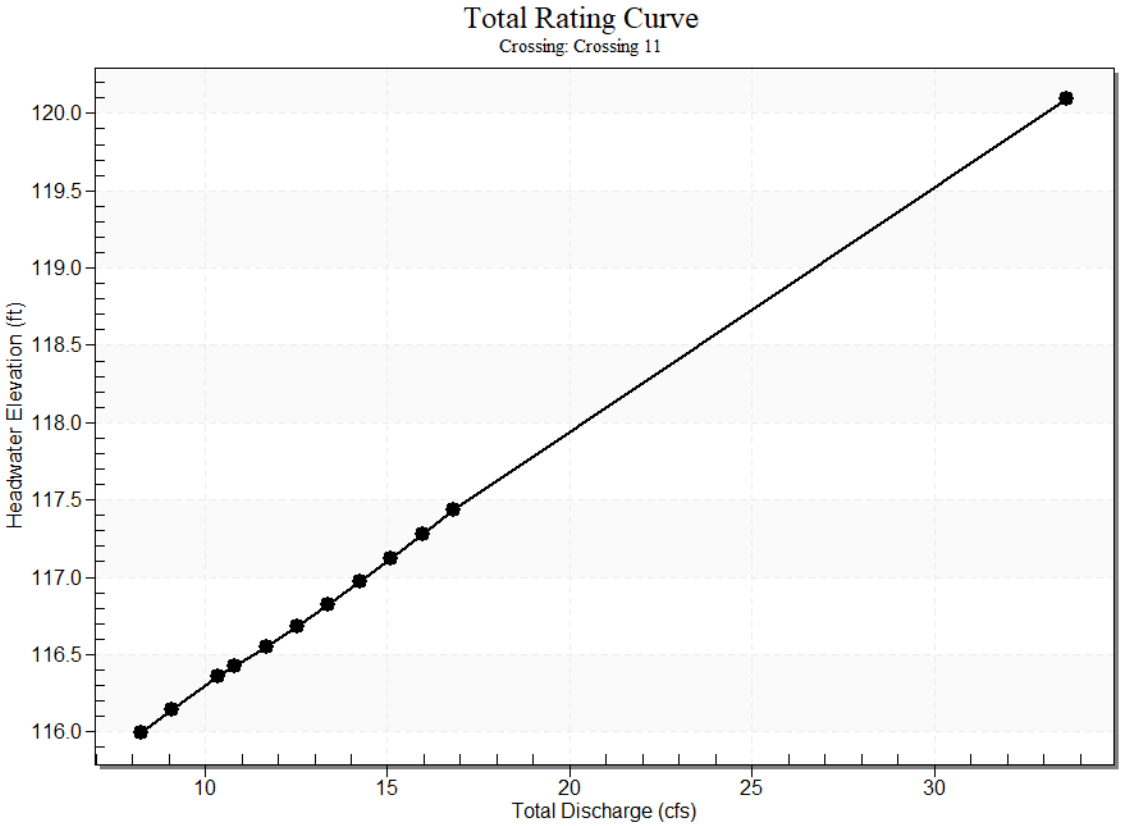
Design Flow: 10.36 cfs

Maximum Flow: 16.82 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 11**

| Headwater Elevation (ft) | Total Discharge (cfs) | Pre CD-11 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **116.00** | 8.23 | 8.23 | 0.00 | 1 |
| **116.14** | 9.09 | 9.09 | 0.00 | 1 |
| **116.36** | 10.36 | 10.36 | 0.00 | 1 |
| **116.42** | 10.81 | 10.81 | 0.00 | 1 |
| **116.55** | 11.67 | 11.67 | 0.00 | 1 |
| **116.69** | 12.53 | 12.53 | 0.00 | 1 |
| **116.83** | 13.38 | 13.38 | 0.00 | 1 |
| **116.97** | 14.24 | 14.24 | 0.00 | 1 |
| **117.12** | 15.10 | 15.10 | 0.00 | 1 |
| **117.27** | 15.96 | 15.96 | 0.00 | 1 |
| **117.43** | 16.82 | 16.82 | 0.00 | 1 |
| **120.09** | 32.59 | 32.59 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 11




## Culvert Data: Pre CD-11

### Table 1 - Culvert Summary Table: Pre CD-11

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **8.23 cfs** | 8.23 cfs | 116.00 | 1.47 | 1.976 | 3-M1f | 1.06 | 1.02 | 2.00 | 2.08 | 2.62 | 0.00 |
| **9.09 cfs** | 9.09 cfs | 116.14 | 1.56 | 2.120 | 3-M1f | 1.13 | 1.08 | 2.00 | 2.17 | 2.89 | 0.00 |
| **10.36 cfs** | 10.36 cfs | 116.36 | 1.68 | 2.336 | 4-FFf | 1.22 | 1.15 | 2.00 | 2.30 | 3.30 | 0.00 |
| **10.81 cfs** | 10.81 cfs | 116.42 | 1.73 | 2.401 | 4-FFf | 1.26 | 1.18 | 2.00 | 2.33 | 3.44 | 0.00 |
| **11.67 cfs** | 11.67 cfs | 116.55 | 1.81 | 2.531 | 4-FFf | 1.33 | 1.23 | 2.00 | 2.40 | 3.71 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **12.53 cfs** | 12.53 cfs | 116.69 | 1.89 | 2.665 | 4-FFf | 1.40 | 1.27 | 2.00 | 2.46 | 3.99 | 0.00 |
| **13.38 cfs** | 13.38 cfs | 116.83 | 1.98 | 2.805 | 4-FFf | 1.48 | 1.32 | 2.00 | 2.52 | 4.26 | 0.00 |
| **14.24 cfs** | 14.24 cfs | 116.97 | 2.07 | 2.950 | 4-FFf | 1.56 | 1.36 | 2.00 | 2.59 | 4.53 | 0.00 |
| **15.10 cfs** | 15.10 cfs | 117.12 | 2.16 | 3.099 | 4-FFf | 1.66 | 1.40 | 2.00 | 2.65 | 4.81 | 0.00 |
| **15.96 cfs** | 15.96 cfs | 117.27 | 2.26 | 3.254 | 4-FFf | 2.00 | 1.44 | 2.00 | 2.72 | 5.08 | 0.00 |
| **16.82 cfs** | 16.82 cfs | 117.43 | 2.36 | 3.414 | 4-FFf | 2.00 | 1.48 | 2.00 | 2.78 | 5.35 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

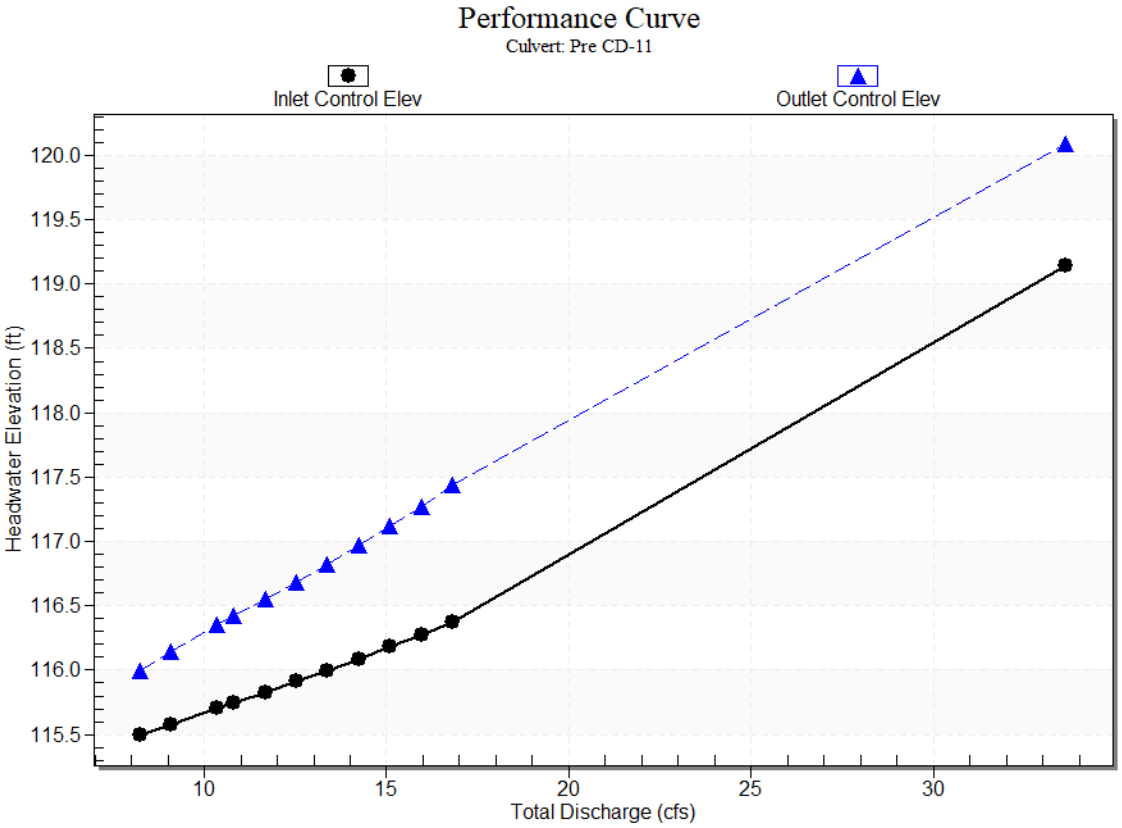
Inlet Elevation (invert): 114.02 ft,

Outlet Elevation (invert): 113.68 ft

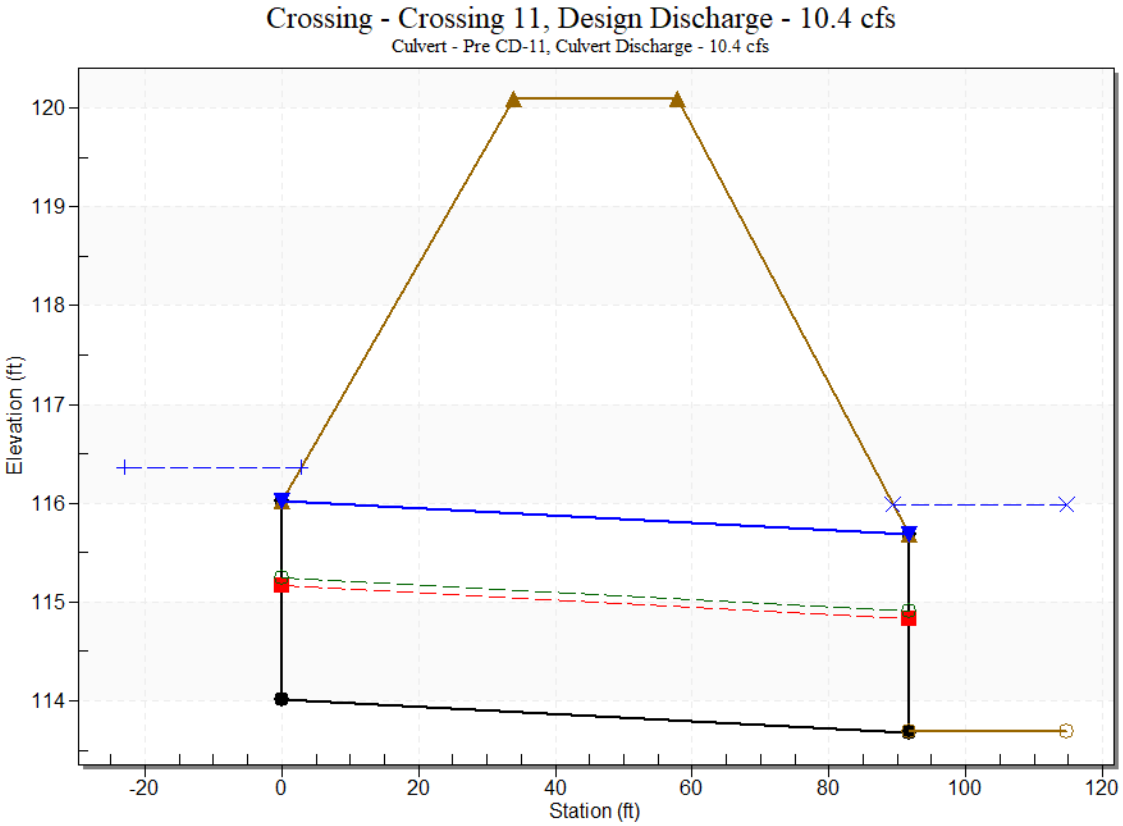
Culvert Length: 91.77 ft,

Culvert Slope: 0.0037

### Culvert Performance Curve Plot: Pre CD-11



## Water Surface Profile Plot for Culvert: Pre CD-11




## Site Data - Pre CD-11

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 114.02 ft

Outlet Station: 91.77 ft

Outlet Elevation: 113.68 ft

Number of Barrels: 1

## Culvert Data Summary - Pre CD-11

Barrel Shape: Circular

Barrel Diameter: 2.00 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 11

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 11)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **8.23** | 115.77 | 115.77 | 0.00 |
| **10.36** | 115.99 | 115.99 | 0.00 |
| **16.82** | 116.47 | 116.47 | 0.00 |

## Tailwater Channel Data - Crossing 11

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 11

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 1300.00 ft

Crest Elevation: 120.09 ft

Roadway Surface: Paved

Roadway Top Width: 24.00 ft

# HY-8 Culvert Analysis Report – CD-12

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 16.65 cfs

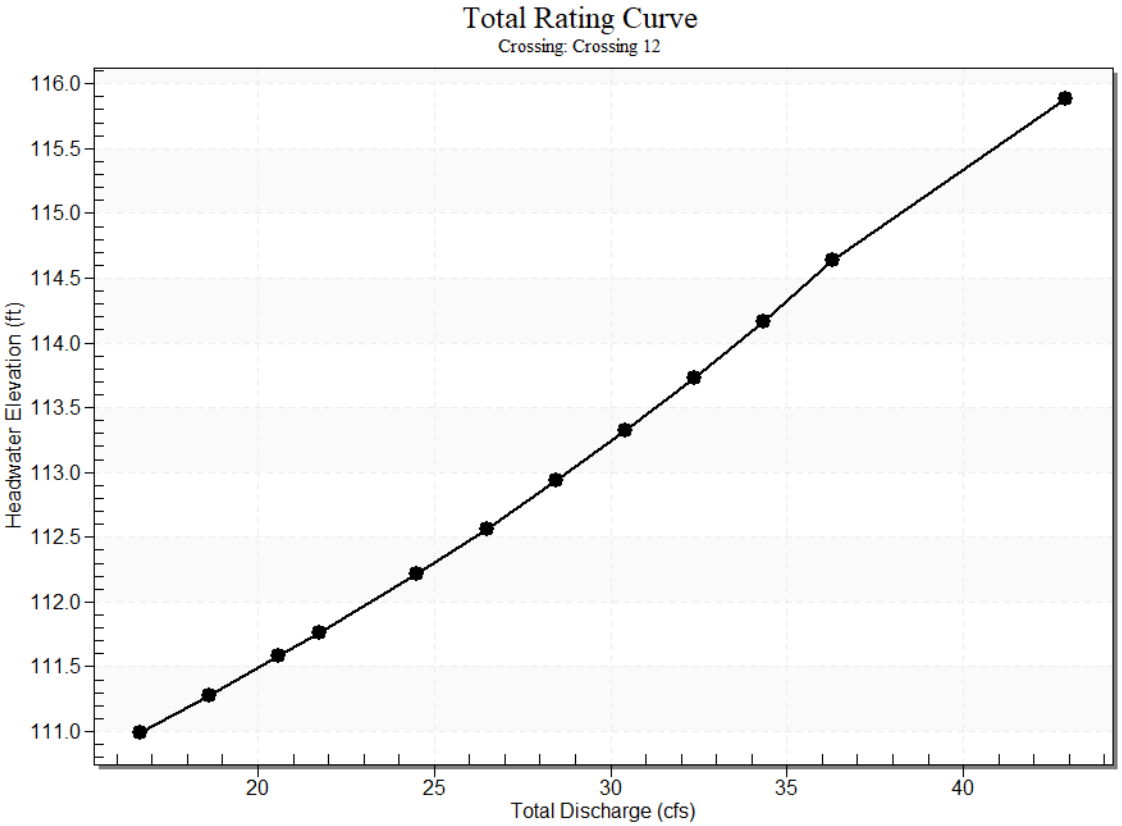
Design Flow: 21.75 cfs

Maximum Flow: 36.31 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 12**

| Headwater Elevation (ft) | Total Discharge (cfs) | Pre CD-12 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **110.99** | 16.65 | 16.65 | 0.00 | 1 |
| **111.28** | 18.62 | 18.62 | 0.00 | 1 |
| **111.58** | 20.58 | 20.58 | 0.00 | 1 |
| **111.76** | 21.75 | 21.75 | 0.00 | 1 |
| **112.22** | 24.51 | 24.51 | 0.00 | 1 |
| **112.57** | 26.48 | 26.48 | 0.00 | 1 |
| **112.94** | 28.45 | 28.45 | 0.00 | 1 |
| **113.33** | 30.41 | 30.41 | 0.00 | 1 |
| **113.73** | 32.38 | 32.38 | 0.00 | 1 |
| **114.17** | 34.34 | 34.34 | 0.00 | 1 |
| **114.64** | 36.31 | 36.31 | 0.00 | 1 |
| **115.83** | 41.04 | 41.04 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 12




## Culvert Data: Pre CD-12

### Table 1 - Culvert Summary Table: Pre CD-12

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **16.65 cfs** | 16.65 cfs | 110.99 | 2.34 | 2.513 | 7-M2c | 2.00 | 1.47 | 1.47 | 1.07 | 6.72 | 0.00 |
| **18.62 cfs** | 18.62 cfs | 111.28 | 2.59 | 2.796 | 7-M2c | 2.00 | 1.55 | 1.55 | 1.14 | 7.11 | 0.00 |
| **20.58 cfs** | 20.58 cfs | 111.58 | 2.86 | 3.102 | 7-M2c | 2.00 | 1.63 | 1.63 | 1.20 | 7.52 | 0.00 |
| **21.75 cfs** | 21.75 cfs | 111.76 | 3.04 | 3.278 | 7-M2c | 2.00 | 1.67 | 1.67 | 1.24 | 7.77 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **24.51 cfs** | 24.51 cfs | 112.22 | 3.50 | 3.738 | 7-M2c | 2.00 | 1.75 | 1.75 | 1.38 | 8.41 | 0.00 |
| **26.48 cfs** | 26.48 cfs | 112.57 | 3.86 | 4.087 | 7-M2c | 2.00 | 1.80 | 1.80 | 1.49 | 8.90 | 0.00 |
| **28.45 cfs** | 28.45 cfs | 112.94 | 4.24 | 4.458 | 7-M2c | 2.00 | 1.84 | 1.84 | 1.59 | 9.42 | 0.00 |
| **30.41 cfs** | 30.41 cfs | 113.33 | 4.65 | 4.845 | 7-M2c | 2.00 | 1.87 | 1.87 | 1.69 | 9.96 | 0.00 |
| **32.38 cfs** | 32.38 cfs | 113.73 | 5.07 | 5.252 | 7-M2c | 2.00 | 1.89 | 1.89 | 1.79 | 10.52 | 0.00 |
| **34.34 cfs** | 34.34 cfs | 114.17 | 5.51 | 5.687 | 7-M2t | 2.00 | 1.88 | 1.90 | 1.90 | 11.15 | 0.00 |
| **36.31 cfs** | 36.31 cfs | 114.64 | 5.97 | 6.163 | 4-FFf | 2.00 | 1.76 | 2.00 | 2.00 | 11.56 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

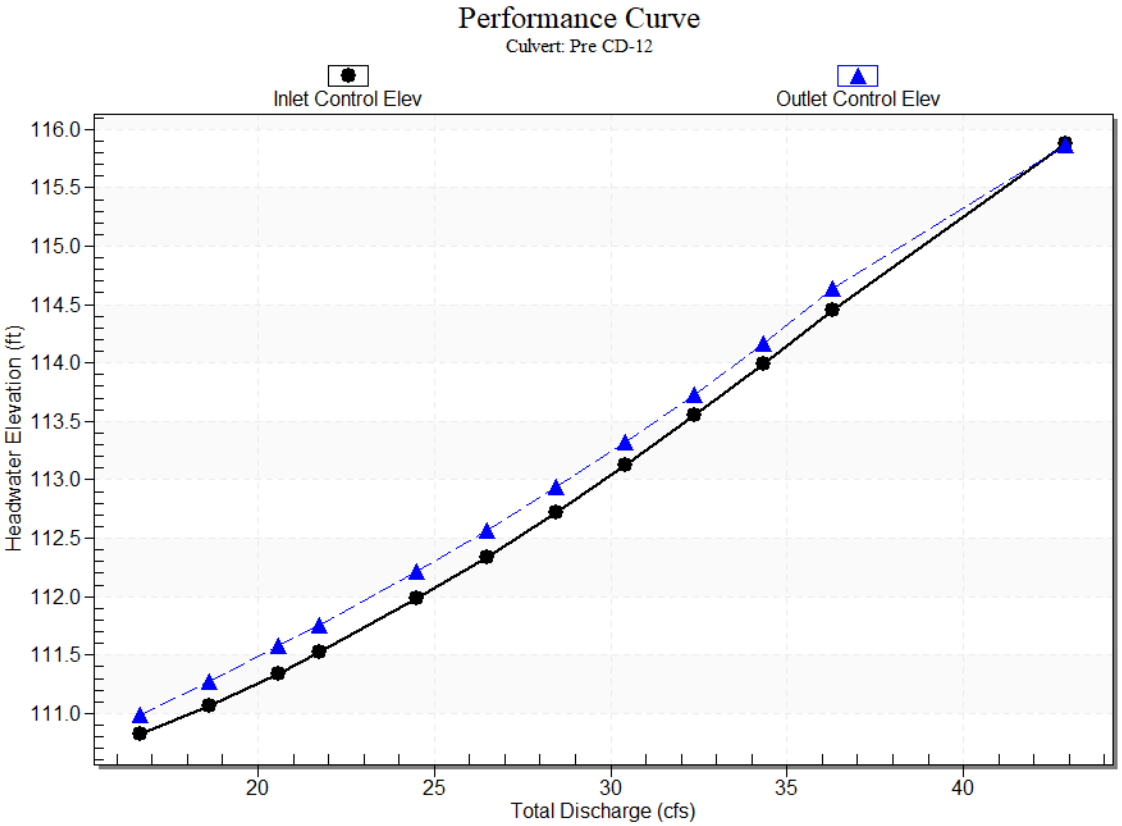
Inlet Elevation (invert): 108.48 ft,

Outlet Elevation (invert): 108.39 ft

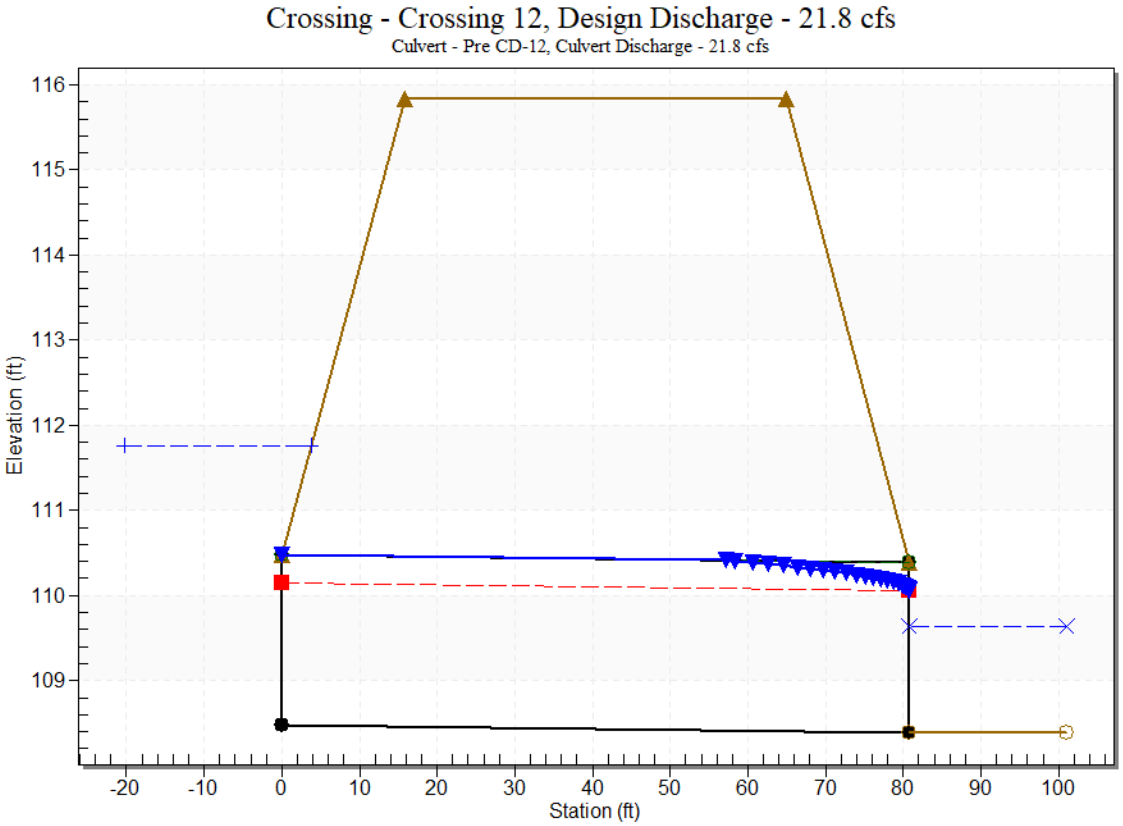
Culvert Length: 80.80 ft,

Culvert Slope: 0.0011

## Culvert Performance Curve Plot: Pre CD-12



## Water Surface Profile Plot for Culvert: Pre CD-12




## Site Data - Pre CD-12

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 108.48 ft

Outlet Station: 80.80 ft

Outlet Elevation: 108.39 ft

Number of Barrels: 1

## Culvert Data Summary - Pre CD-12

Barrel Shape: Circular

Barrel Diameter: 2.00 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 12

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 12)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **16.65** | 109.46 | 109.46 | 0.00 |
| **21.75** | 109.63 | 109.63 | 0.00 |
| **36.31** | 110.39 | 110.39 | 0.00 |

## Tailwater Channel Data - Crossing 12

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 12

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 49.00 ft

Crest Elevation: 115.83 ft

Roadway Surface: Paved

Roadway Top Width: 49.00 ft

# HY-8 Culvert Analysis Report – CD-13

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 15.48 cfs

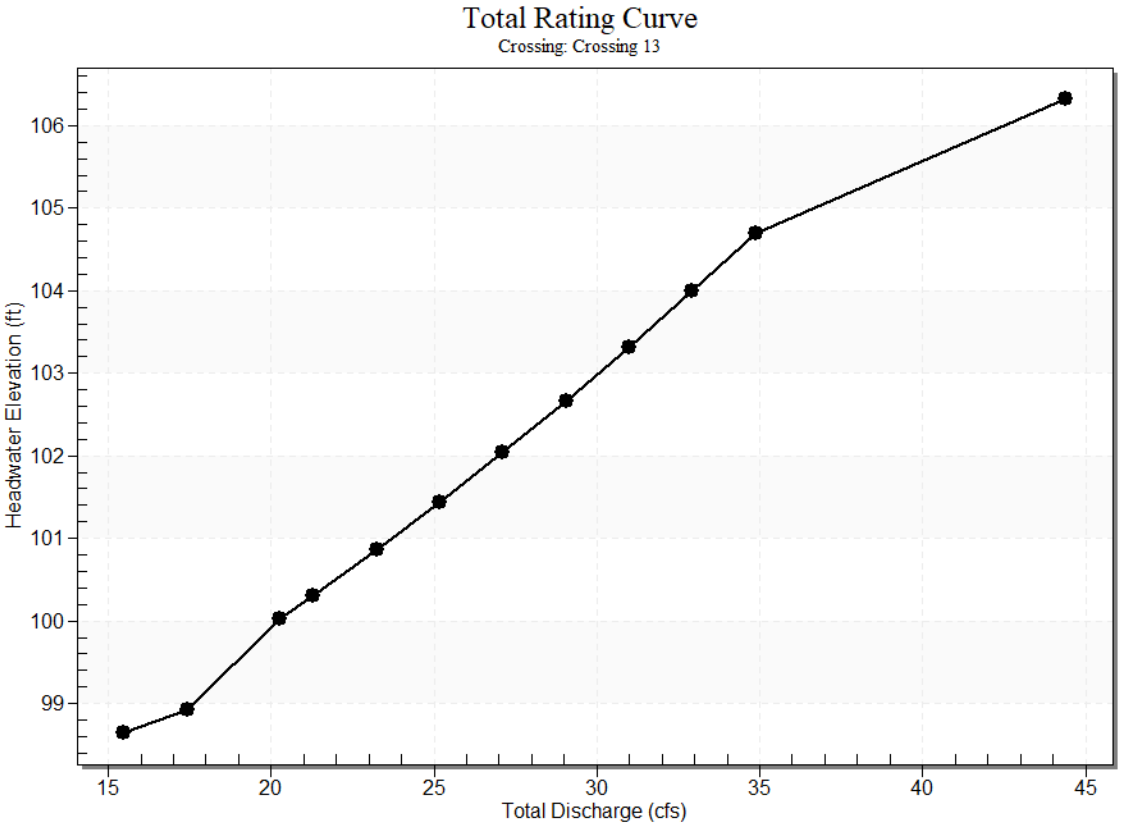
Design Flow: 20.25 cfs

Maximum Flow: 34.87 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 13**

| Headwater Elevation (ft) | Total Discharge (cfs) | Pre CD-13 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **98.65** | 15.48 | 15.48 | 0.00 | 1 |
| **98.93** | 17.42 | 17.42 | 0.00 | 1 |
| **100.02** | 20.25 | 20.25 | 0.00 | 1 |
| **100.31** | 21.30 | 21.30 | 0.00 | 1 |
| **100.86** | 23.24 | 23.24 | 0.00 | 1 |
| **101.43** | 25.17 | 25.17 | 0.00 | 1 |
| **102.04** | 27.11 | 27.11 | 0.00 | 1 |
| **102.66** | 29.05 | 29.05 | 0.00 | 1 |
| **103.32** | 30.99 | 30.99 | 0.00 | 1 |
| **104.00** | 32.93 | 32.93 | 0.00 | 1 |
| **104.70** | 34.87 | 34.87 | 0.00 | 1 |
| **106.23** | 40.75 | 40.75 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 13




## Culvert Data: Pre CD-13

### Table 1 - Culvert Summary Table: Pre CD-13

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **15.48 cfs** | 15.48 cfs | 98.65 | 2.20 | 2.438 | 7-M2c | 2.00 | 1.42 | 1.42 | 0.58 | 6.50 | 0.00 |
| **17.42 cfs** | 17.42 cfs | 98.93 | 2.43 | 2.720 | 7-M2c | 2.00 | 1.50 | 1.50 | 1.34 | 6.87 | 0.00 |
| **20.25 cfs** | 20.25 cfs | 100.02 | 2.82 | 3.810 | 4-FFf | 2.00 | 1.61 | 2.00 | 2.46 | 6.45 | 0.00 |
| **21.30 cfs** | 21.30 cfs | 100.31 | 2.97 | 4.097 | 4-FFf | 2.00 | 1.65 | 2.00 | 2.60 | 6.78 | 0.00 |
| **23.24 cfs** | 23.24 cfs | 100.86 | 3.28 | 4.647 | 4-FFf | 2.00 | 1.71 | 2.00 | 2.85 | 7.40 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **25.17 cfs** | 25.17 cfs | 101.43 | 3.62 | 5.223 | 4-FFf | 2.00 | 1.77 | 2.00 | 3.10 | 8.01 | 0.00 |
| **27.11 cfs** | 27.11 cfs | 102.04 | 3.98 | 5.825 | 4-FFf | 2.00 | 1.81 | 2.00 | 3.36 | 8.63 | 0.00 |
| **29.05 cfs** | 29.05 cfs | 102.66 | 4.37 | 6.453 | 4-FFf | 2.00 | 1.85 | 2.00 | 3.61 | 9.25 | 0.00 |
| **30.99 cfs** | 30.99 cfs | 103.32 | 4.77 | 7.107 | 4-FFf | 2.00 | 1.88 | 2.00 | 3.86 | 9.87 | 0.00 |
| **32.93 cfs** | 32.93 cfs | 104.00 | 5.20 | 7.786 | 4-FFf | 2.00 | 1.90 | 2.00 | 4.12 | 10.48 | 0.00 |
| **34.87 cfs** | 34.87 cfs | 104.70 | 5.64 | 8.492 | 4-FFf | 2.00 | 1.85 | 2.00 | 4.37 | 11.10 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

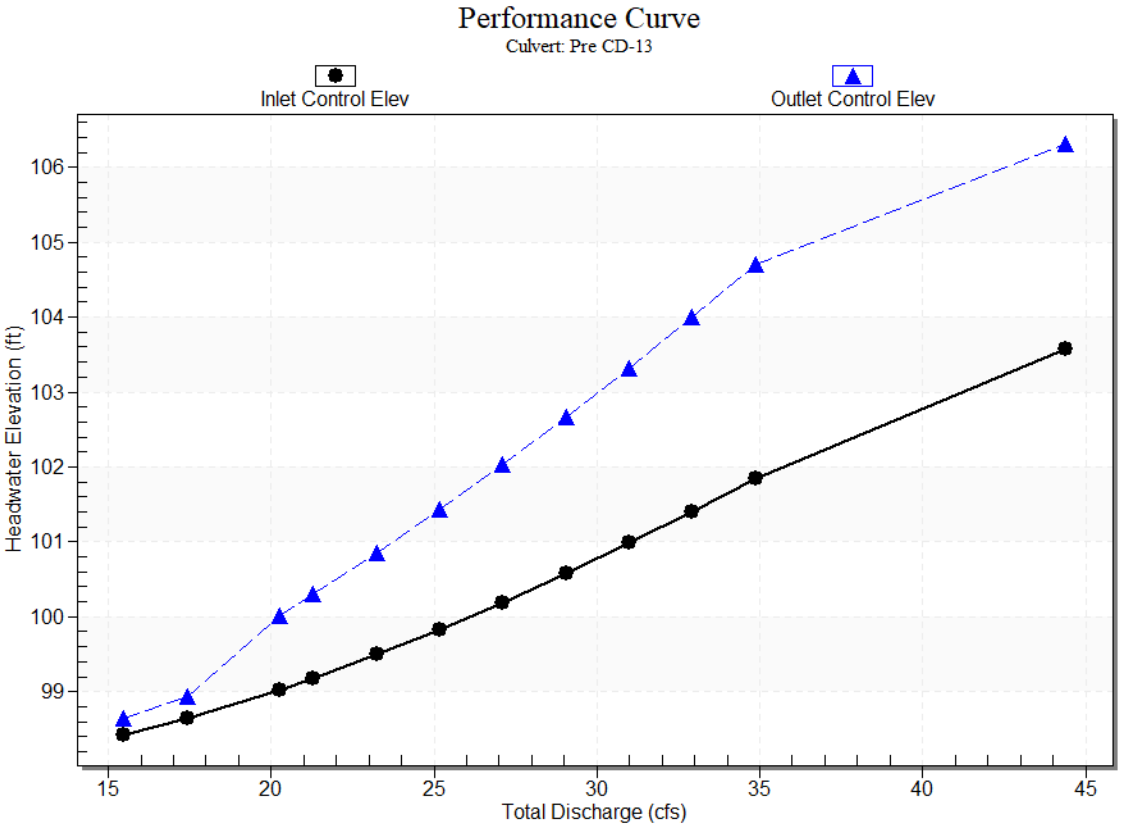
Inlet Elevation (invert): 96.21 ft,

Outlet Elevation (invert): 96.15 ft

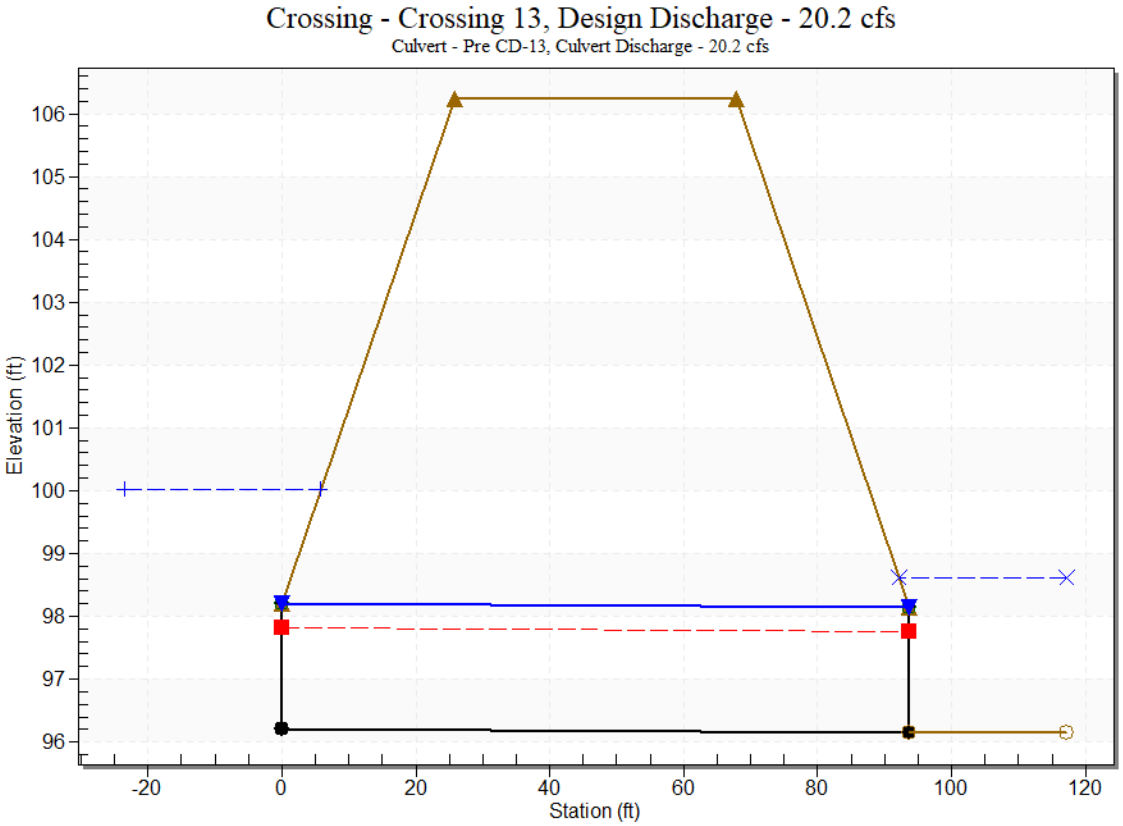
Culvert Length: 93.70 ft,

Culvert Slope: 0.0006

### Culvert Performance Curve Plot: Pre CD-13



## Water Surface Profile Plot for Culvert: Pre CD-13




## Site Data - Pre CD-13

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 96.21 ft

Outlet Station: 93.70 ft

Outlet Elevation: 96.15 ft

Number of Barrels: 1

## Culvert Data Summary - Pre CD-13

Barrel Shape: Circular

Barrel Diameter: 2.00 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 13

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 13)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **15.48** | 96.73 | 96.73 | 0.00 |
| **20.25** | 98.61 | 98.61 | 0.00 |
| **34.87** | 100.52 | 100.52 | 0.00 |

## Tailwater Channel Data - Crossing 13

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 13

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 42.00 ft

Crest Elevation: 106.23 ft

Roadway Surface: Paved

Roadway Top Width: 42.00 ft

# HY-8 Culvert Analysis Report – CD-9

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 10.36 cfs

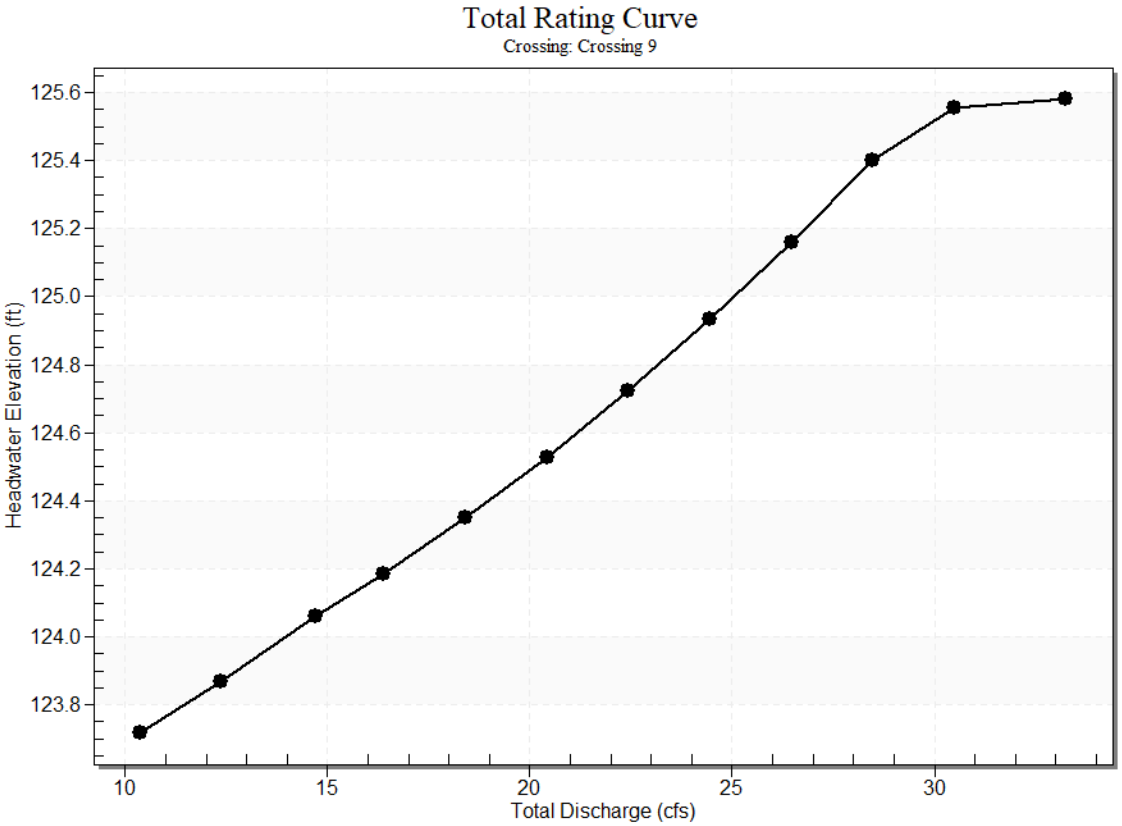
Design Flow: 14.69 cfs

Maximum Flow: 30.48 cfs

### Table 1 - Summary of Culvert Flows at Crossing: Crossing 9

| Headwater Elevation (ft) | Total Discharge (cfs) | Post CD-9 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **123.72** | 10.36 | 10.36 | 0.00 | 1 |
| **123.87** | 12.37 | 12.37 | 0.00 | 1 |
| **124.06** | 14.69 | 14.69 | 0.00 | 1 |
| **124.19** | 16.40 | 16.40 | 0.00 | 1 |
| **124.35** | 18.41 | 18.41 | 0.00 | 1 |
| **124.53** | 20.42 | 20.42 | 0.00 | 1 |
| **124.72** | 22.43 | 22.43 | 0.00 | 1 |
| **124.93** | 24.44 | 24.44 | 0.00 | 1 |
| **125.16** | 26.46 | 26.46 | 0.00 | 1 |
| **125.40** | 28.47 | 28.47 | 0.00 | 1 |
| **125.56** | 30.48 | 29.60 | 0.78 | 19 |
| **125.54** | 29.57 | 29.57 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 9




## Culvert Data: Post CD-9

### Table 1 - Culvert Summary Table: Post CD-9

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **10.36 cfs** | 10.36 cfs | 123.72 | 1.57 | 5.379 | 4-FFf | 1.51 | 1.08 | 2.50 | 5.37 | 2.11 | 0.00 |
| **12.37 cfs** | 12.37 cfs | 123.87 | 1.74 | 5.528 | 4-FFf | 1.70 | 1.18 | 2.50 | 5.43 | 2.52 | 0.00 |
| **14.69 cfs** | 14.69 cfs | 124.06 | 1.92 | 5.720 | 4-FFf | 1.96 | 1.29 | 2.50 | 5.50 | 2.99 | 0.00 |
| **16.40 cfs** | 16.40 cfs | 124.19 | 2.05 | 5.846 | 4-FFf | 2.50 | 1.37 | 2.50 | 5.52 | 3.34 | 0.00 |
| **18.41 cfs** | 18.41 cfs | 124.35 | 2.22 | 6.009 | 4-FFf | 2.50 | 1.45 | 2.50 | 5.55 | 3.75 | 0.00 |
| **20.42 cfs** | 20.42 cfs | 124.53 | 2.39 | 6.187 | 4-FFf | 2.50 | 1.53 | 2.50 | 5.58 | 4.16 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **22.43 cfs** | 22.43 cfs | 124.72 | 2.57 | 6.382 | 4-FFf | 2.50 | 1.61 | 2.50 | 5.60 | 4.57 | 0.00 |
| **24.44 cfs** | 24.44 cfs | 124.93 | 2.77 | 6.592 | 4-FFf | 2.50 | 1.68 | 2.50 | 5.63 | 4.98 | 0.00 |
| **26.46 cfs** | 26.46 cfs | 125.16 | 2.98 | 6.818 | 4-FFf | 2.50 | 1.75 | 2.50 | 5.66 | 5.39 | 0.00 |
| **28.47 cfs** | 28.47 cfs | 125.40 | 3.22 | 7.060 | 4-FFf | 2.50 | 1.82 | 2.50 | 5.68 | 5.80 | 0.00 |
| **30.48 cfs** | 29.60 cfs | 125.56 | 3.36 | 7.215 | 4-FFf | 2.50 | 1.85 | 2.50 | 5.71 | 6.03 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

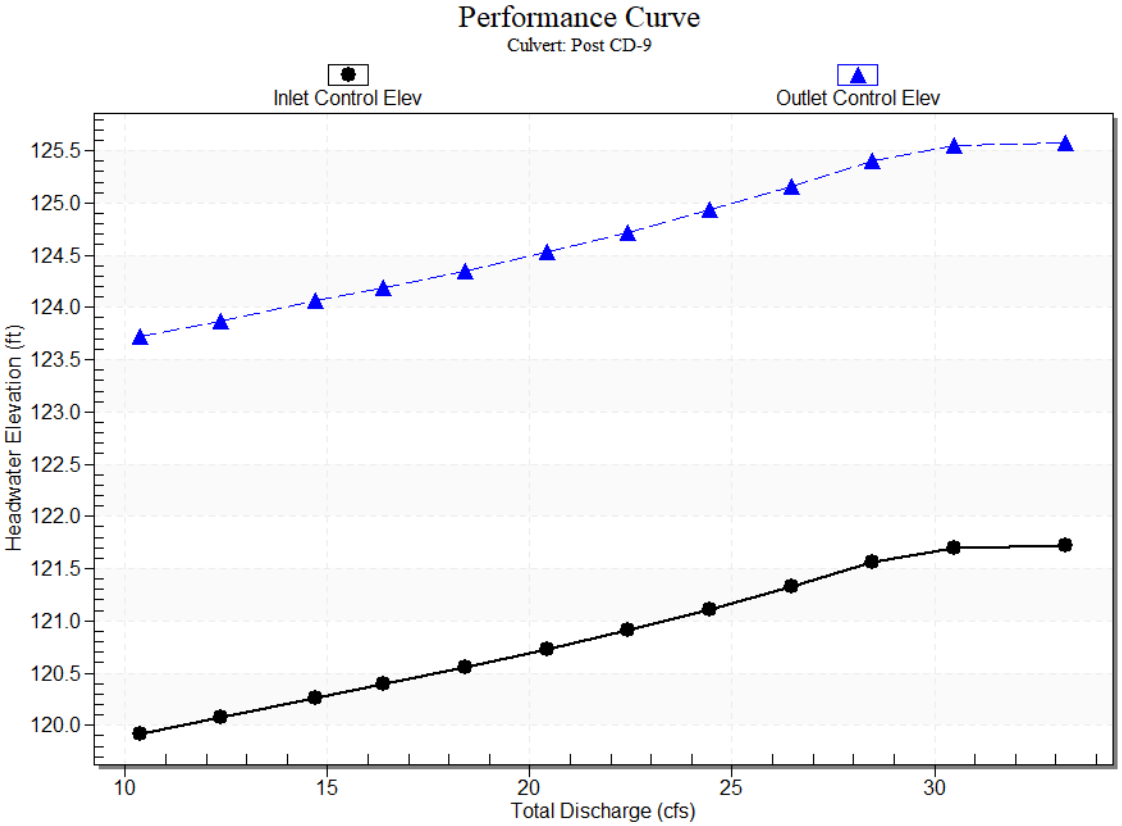
Inlet Elevation (invert): 118.34 ft,

Outlet Elevation (invert): 118.14 ft

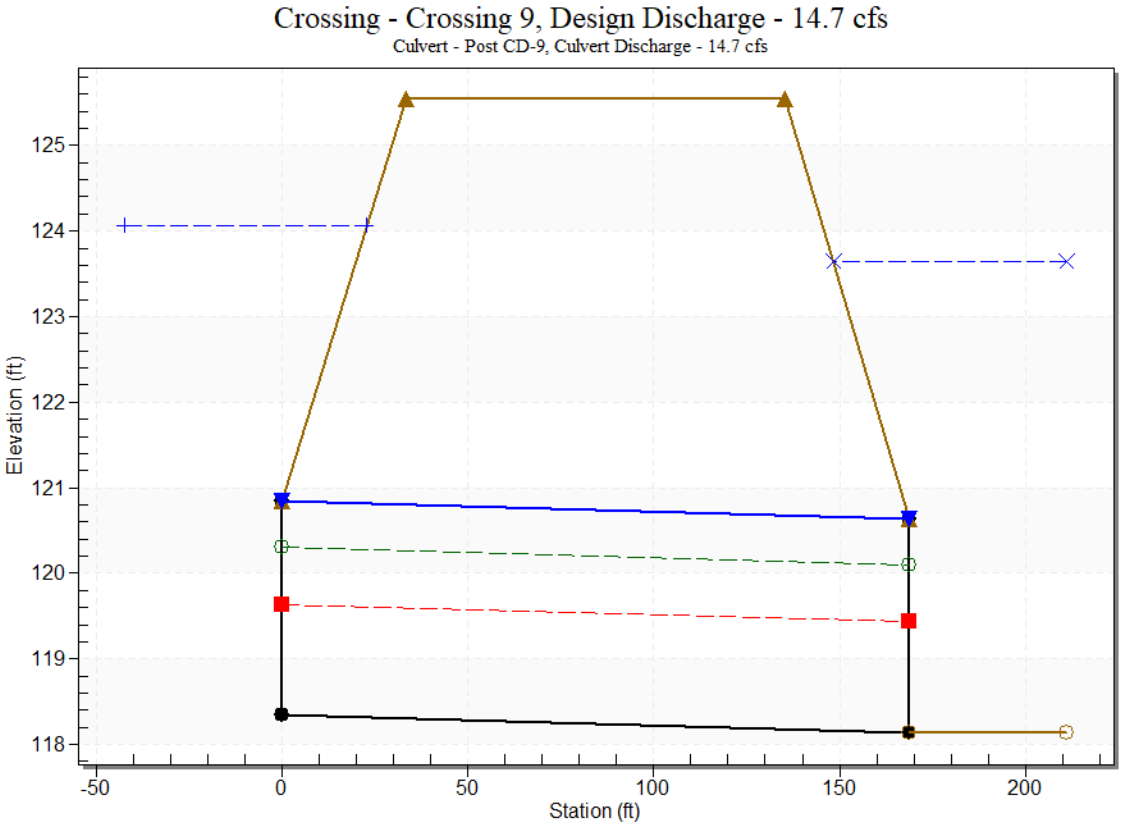
Culvert Length: 168.78 ft,

Culvert Slope: 0.0012

### Culvert Performance Curve Plot: Post CD-9



## Water Surface Profile Plot for Culvert: Post CD-9




## Site Data - Post CD-9

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 118.34 ft

Outlet Station: 168.78 ft

Outlet Elevation: 118.14 ft

Number of Barrels: 1

## Culvert Data Summary - Post CD-9

Barrel Shape: Circular

Barrel Diameter: 2.50 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Mitered to Conform to Slope (Ke=0.7)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 9

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 9)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **10.36** | 123.51 | 123.51 | 0.00 |
| **14.69** | 123.64 | 123.64 | 0.00 |
| **30.48** | 123.85 | 123.85 | 0.00 |

## Tailwater Channel Data - Crossing 9

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 9

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 149.10 ft

Crest Elevation: 125.54 ft

Roadway Surface: Paved

Roadway Top Width: 102.00 ft

# HY-8 Culvert Analysis Report – CD-10

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 24.32 cfs

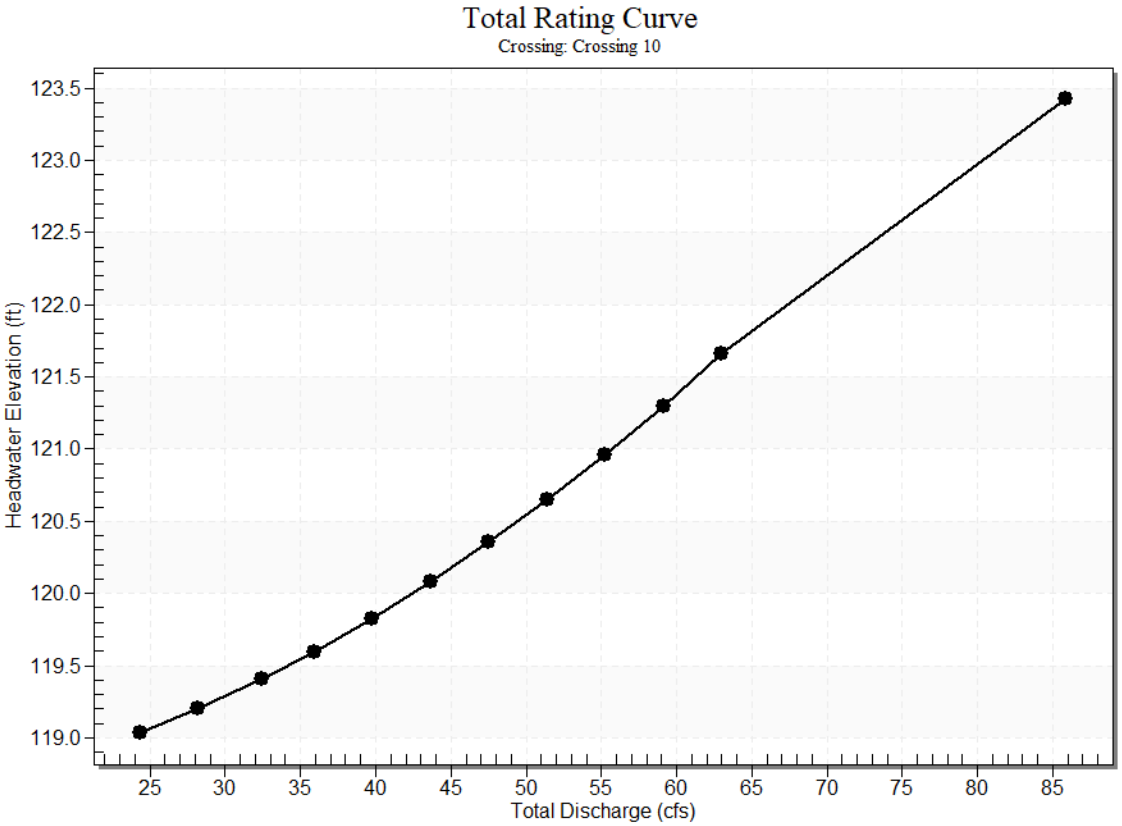
Design Flow: 32.39 cfs

Maximum Flow: 62.98 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 10**

| Headwater Elevation (ft) | Total Discharge (cfs) | Post CD-10 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **119.04** | 24.32 | 24.32 | 0.00 | 1 |
| **119.20** | 28.19 | 28.19 | 0.00 | 1 |
| **119.41** | 32.39 | 32.39 | 0.00 | 1 |
| **119.60** | 35.92 | 35.92 | 0.00 | 1 |
| **119.83** | 39.78 | 39.78 | 0.00 | 1 |
| **120.08** | 43.65 | 43.65 | 0.00 | 1 |
| **120.35** | 47.52 | 47.52 | 0.00 | 1 |
| **120.65** | 51.38 | 51.38 | 0.00 | 1 |
| **120.96** | 55.25 | 55.25 | 0.00 | 1 |
| **121.30** | 59.11 | 59.11 | 0.00 | 1 |
| **121.66** | 62.98 | 62.98 | 0.00 | 1 |
| **123.37** | 79.61 | 79.61 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 10




## Culvert Data: Post CD-10

### Table 1 - Culvert Summary Table: Post CD-10

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **24.32 cfs** | 24.32 cfs | 119.04 | 2.30 | 4.406 | 4-FFf | 1.84 | 1.59 | 3.00 | 4.41 | 3.44 | 0.00 |
| **28.19 cfs** | 28.19 cfs | 119.20 | 2.51 | 4.572 | 4-FFf | 2.04 | 1.72 | 3.00 | 4.43 | 3.99 | 0.00 |
| **32.39 cfs** | 32.39 cfs | 119.41 | 2.73 | 4.777 | 4-FFf | 2.27 | 1.85 | 3.00 | 4.45 | 4.58 | 0.00 |
| **35.92 cfs** | 35.92 cfs | 119.60 | 2.92 | 4.968 | 4-FFf | 2.53 | 1.95 | 3.00 | 4.47 | 5.08 | 0.00 |
| **39.78 cfs** | 39.78 cfs | 119.83 | 3.13 | 5.198 | 4-FFf | 3.00 | 2.05 | 3.00 | 4.49 | 5.63 | 0.00 |
| **43.65 cfs** | 43.65 cfs | 120.08 | 3.37 | 5.449 | 4-FFf | 3.00 | 2.15 | 3.00 | 4.51 | 6.18 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **47.52 cfs** | 47.52 cfs | 120.35 | 3.62 | 5.722 | 4-FFf | 3.00 | 2.24 | 3.00 | 4.52 | 6.72 | 0.00 |
| **51.38 cfs** | 51.38 cfs | 120.65 | 3.89 | 6.017 | 4-FFf | 3.00 | 2.33 | 3.00 | 4.54 | 7.27 | 0.00 |
| **55.25 cfs** | 55.25 cfs | 120.96 | 4.18 | 6.333 | 4-FFf | 3.00 | 2.41 | 3.00 | 4.56 | 7.82 | 0.00 |
| **59.11 cfs** | 59.11 cfs | 121.30 | 4.49 | 6.671 | 4-FFf | 3.00 | 2.49 | 3.00 | 4.58 | 8.36 | 0.00 |
| **62.98 cfs** | 62.98 cfs | 121.66 | 4.83 | 7.030 | 4-FFf | 3.00 | 2.55 | 3.00 | 4.60 | 8.91 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

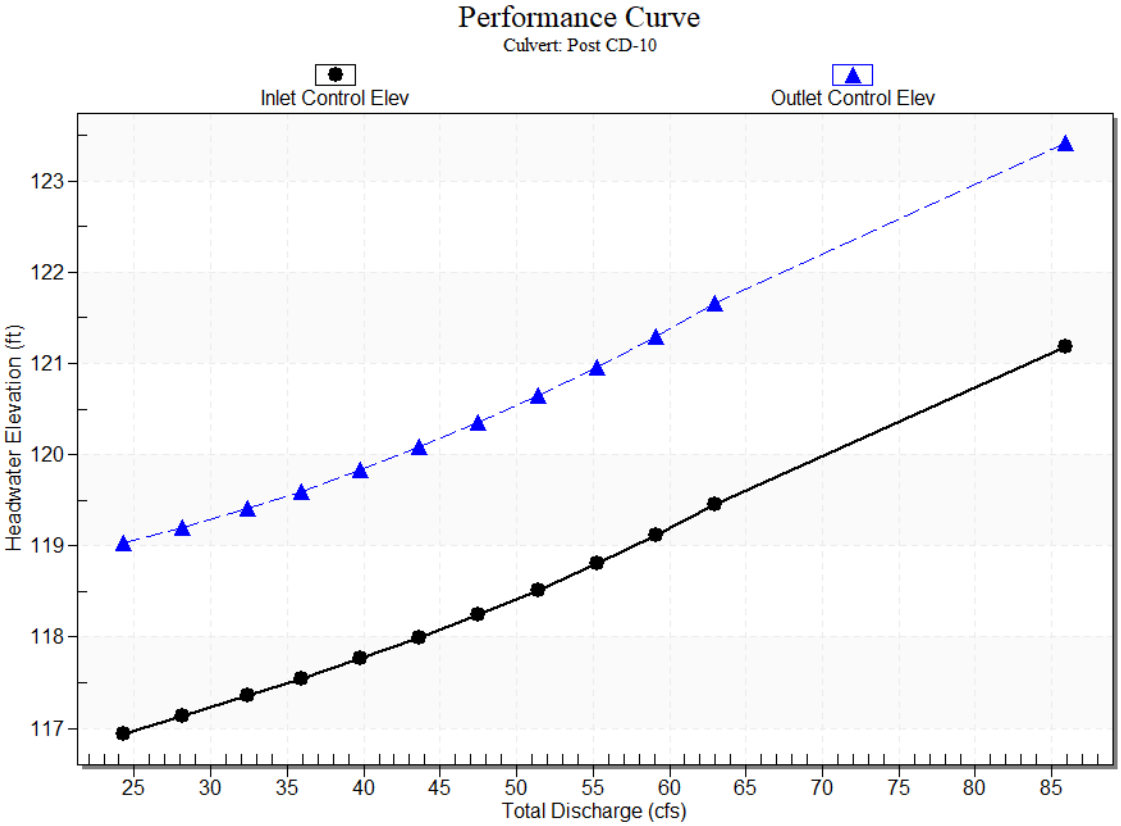
Inlet Elevation (invert): 114.63 ft,

Outlet Elevation (invert): 114.20 ft

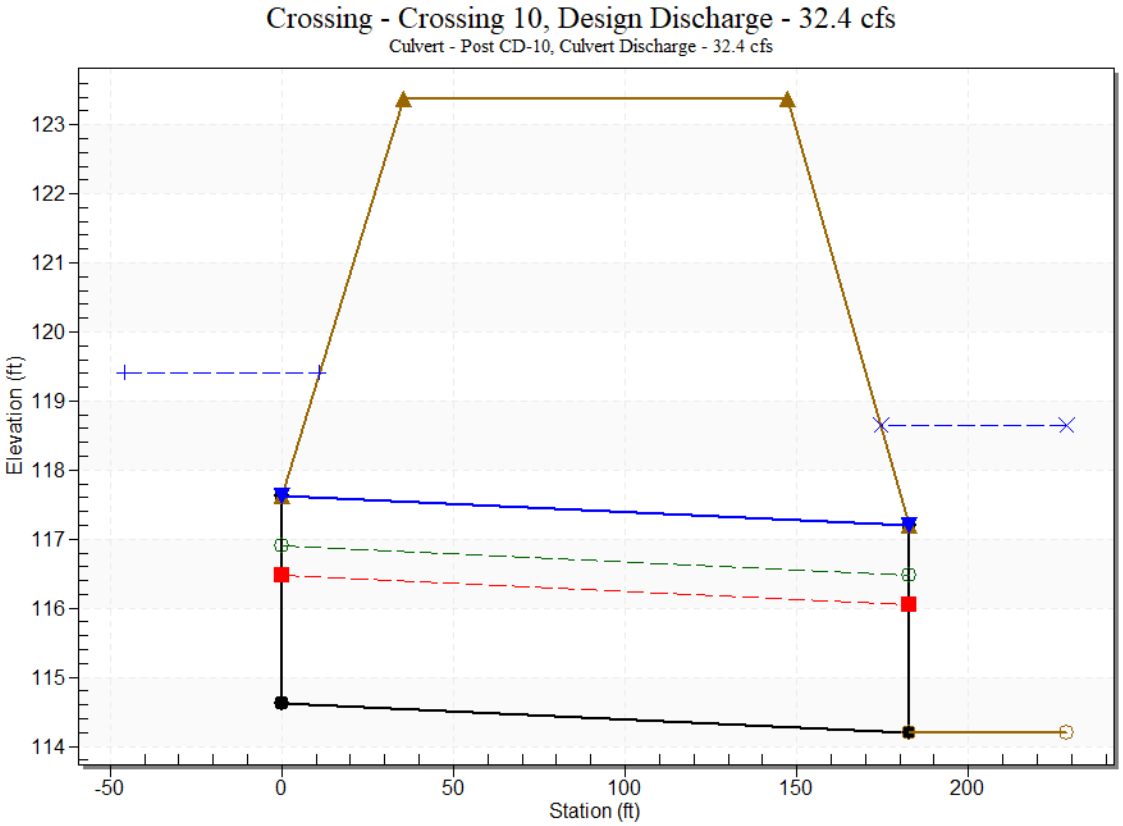
Culvert Length: 182.80 ft,

Culvert Slope: 0.0024

### Culvert Performance Curve Plot: Post CD-10



## Water Surface Profile Plot for Culvert: Post CD-10




## Site Data - Post CD-10

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 114.63 ft

Outlet Station: 182.80 ft

Outlet Elevation: 114.20 ft

Number of Barrels: 1

## Culvert Data Summary - Post CD-10

Barrel Shape: Circular

Barrel Diameter: 3.00 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 10

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 10)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **24.32** | 118.61 | 118.61 | 0.00 |
| **32.39** | 118.65 | 118.65 | 0.00 |
| **62.98** | 118.80 | 118.80 | 0.00 |

## Tailwater Channel Data - Crossing 10

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 10

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 158.00 ft

Crest Elevation: 123.37 ft

Roadway Surface: Paved

Roadway Top Width: 112.00 ft

# HY-8 Culvert Analysis Report – CD-11

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 8.23 cfs

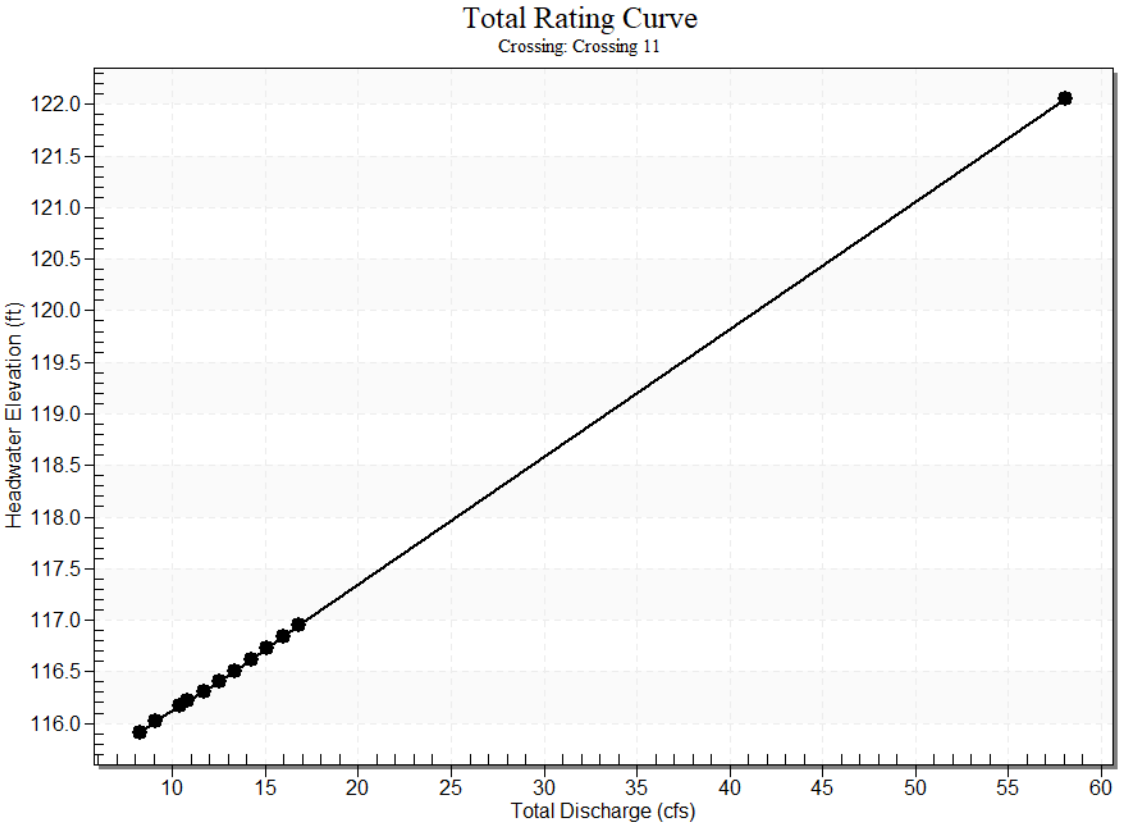
Design Flow: 10.36 cfs

Maximum Flow: 16.82 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 11**

| Headwater Elevation (ft) | Total Discharge (cfs) | Post CD-11 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **115.91** | 8.23 | 8.23 | 0.00 | 1 |
| **116.02** | 9.09 | 9.09 | 0.00 | 1 |
| **116.17** | 10.36 | 10.36 | 0.00 | 1 |
| **116.22** | 10.81 | 10.81 | 0.00 | 1 |
| **116.31** | 11.67 | 11.67 | 0.00 | 1 |
| **116.40** | 12.53 | 12.53 | 0.00 | 1 |
| **116.50** | 13.38 | 13.38 | 0.00 | 1 |
| **116.62** | 14.24 | 14.24 | 0.00 | 1 |
| **116.73** | 15.10 | 15.10 | 0.00 | 1 |
| **116.84** | 15.96 | 15.96 | 0.00 | 1 |
| **116.95** | 16.82 | 16.82 | 0.00 | 1 |
| **122.04** | 57.45 | 57.45 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 11




## Culvert Data: Post CD-11

### Table 1 - Culvert Summary Table: Post CD-11

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **8.23 cfs** | 8.23 cfs | 115.91 | 1.32 | 1.891 | 3-M1t | 1.16 | 0.95 | 2.07 | 2.07 | 1.89 | 0.00 |
| **9.09 cfs** | 9.09 cfs | 116.02 | 1.40 | 1.996 | 3-M1t | 1.23 | 1.01 | 2.16 | 2.16 | 2.02 | 0.00 |
| **10.36 cfs** | 10.36 cfs | 116.17 | 1.52 | 2.154 | 3-M1t | 1.33 | 1.08 | 2.29 | 2.29 | 2.20 | 0.00 |
| **10.81 cfs** | 10.81 cfs | 116.22 | 1.56 | 2.200 | 3-M1t | 1.36 | 1.10 | 2.32 | 2.32 | 2.27 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **11.67 cfs** | 11.67 cfs | 116.31 | 1.63 | 2.289 | 3-M1t | 1.43 | 1.14 | 2.39 | 2.39 | 2.42 | 0.00 |
| **12.53 cfs** | 12.53 cfs | 116.40 | 1.70 | 2.381 | 3-M1t | 1.50 | 1.19 | 2.50 | 2.45 | 2.56 | 0.00 |
| **13.38 cfs** | 13.38 cfs | 116.50 | 1.77 | 2.483 | 3-M1f | 1.56 | 1.23 | 2.50 | 2.51 | 2.73 | 0.00 |
| **14.24 cfs** | 14.24 cfs | 116.62 | 1.83 | 2.596 | 3-M1f | 1.63 | 1.27 | 2.50 | 2.58 | 2.90 | 0.00 |
| **15.10 cfs** | 15.10 cfs | 116.73 | 1.90 | 2.707 | 4-FFf | 1.70 | 1.31 | 2.50 | 2.64 | 3.08 | 0.00 |
| **15.96 cfs** | 15.96 cfs | 116.84 | 1.96 | 2.816 | 4-FFf | 1.78 | 1.35 | 2.50 | 2.71 | 3.25 | 0.00 |
| **16.82 cfs** | 16.82 cfs | 116.95 | 2.02 | 2.927 | 4-FFf | 1.85 | 1.39 | 2.50 | 2.77 | 3.43 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

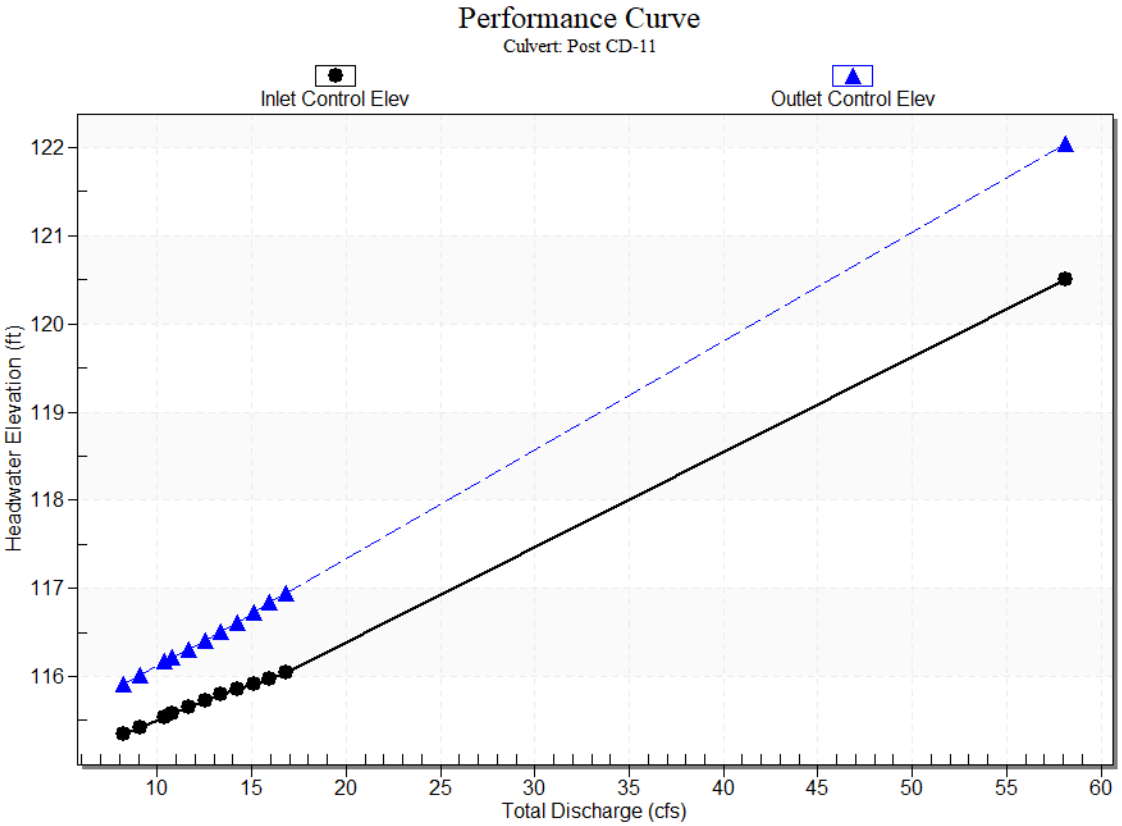
Inlet Elevation (invert): 114.02 ft,

Outlet Elevation (invert): 113.70 ft

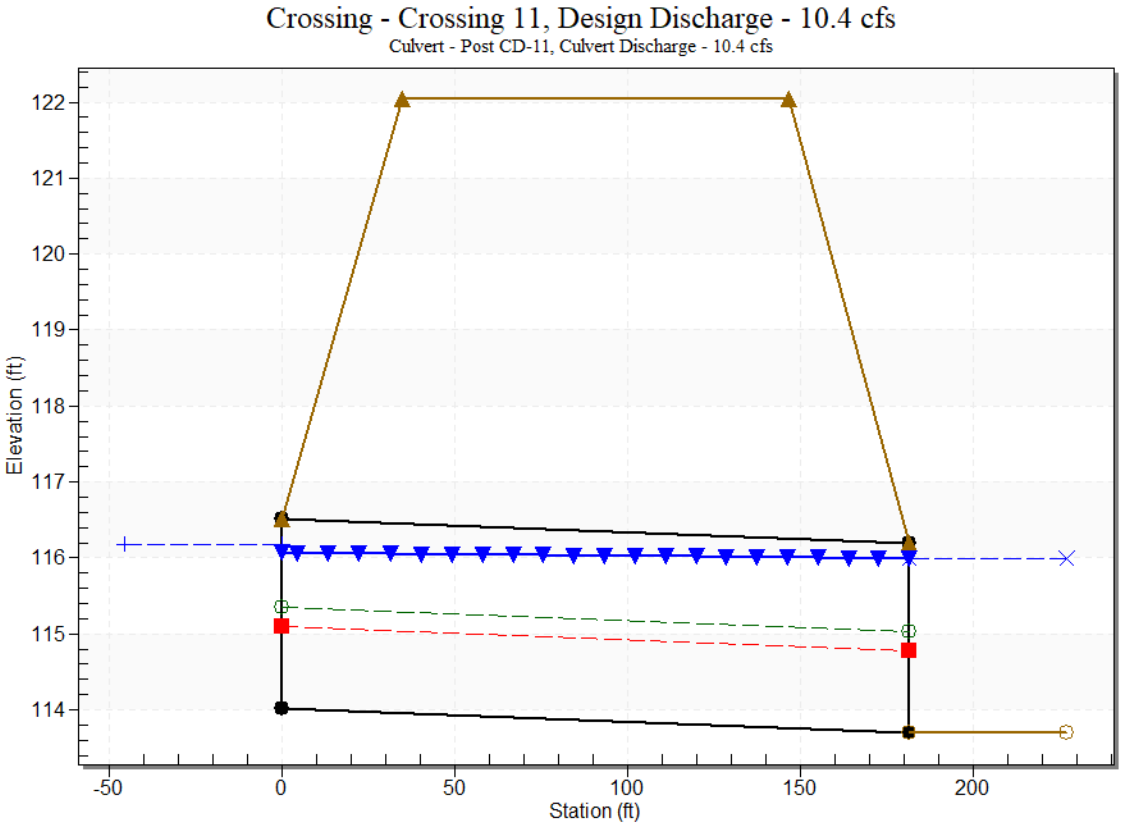
Culvert Length: 181.50 ft,

Culvert Slope: 0.0018

## Culvert Performance Curve Plot: Post CD-11



## Water Surface Profile Plot for Culvert: Post CD-11




## Site Data - Post CD-11

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 114.02 ft

Outlet Station: 181.50 ft

Outlet Elevation: 113.70 ft

Number of Barrels: 1

## Culvert Data Summary - Post CD-11

Barrel Shape: Circular

Barrel Diameter: 2.50 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 11

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 11)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **8.23** | 115.77 | 115.77 | 0.00 |
| **10.36** | 115.99 | 115.99 | 0.00 |
| **16.82** | 116.47 | 116.47 | 0.00 |

## Tailwater Channel Data - Crossing 11

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 11

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 156.40 ft

Crest Elevation: 122.04 ft

Roadway Surface: Paved

Roadway Top Width: 112.00 ft

# HY-8 Culvert Analysis Report – CD-12

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 16.65 cfs

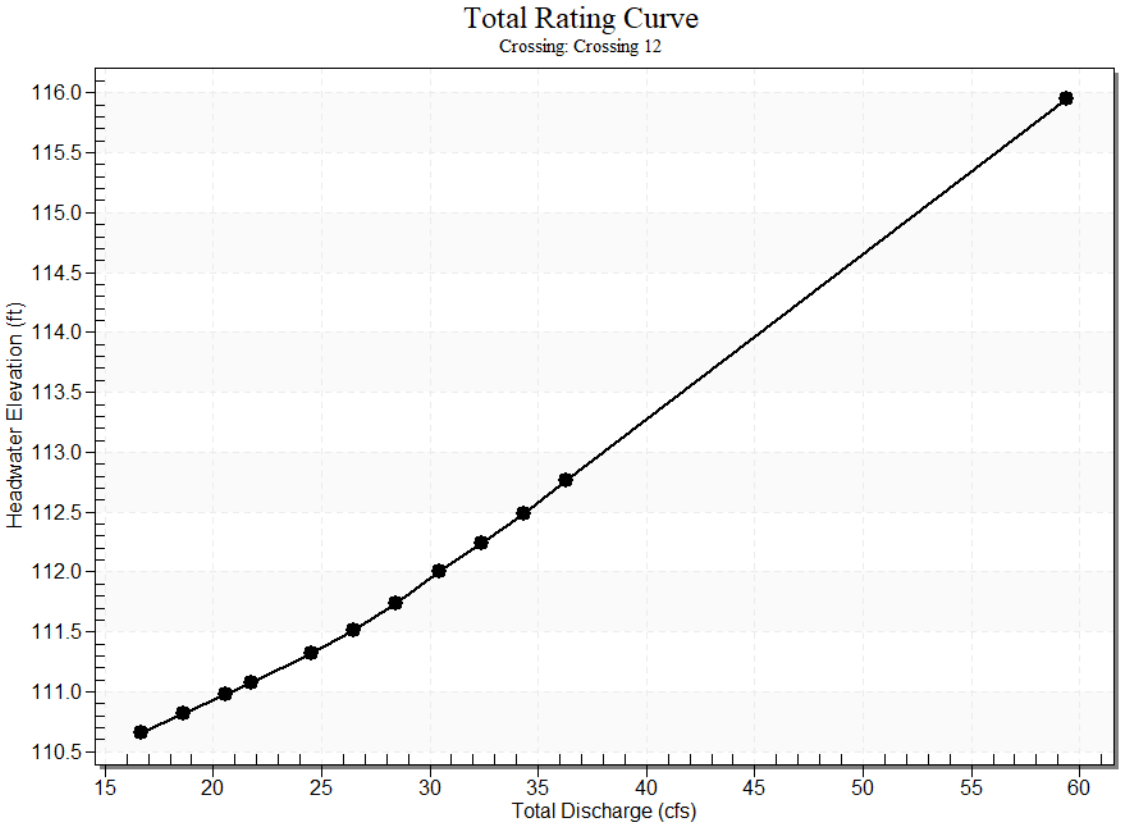
Design Flow: 21.75 cfs

Maximum Flow: 36.31 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 12**

| Headwater Elevation (ft) | Total Discharge (cfs) | Post CD-12 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **110.66** | 16.65 | 16.65 | 0.00 | 1 |
| **110.82** | 18.62 | 18.62 | 0.00 | 1 |
| **110.98** | 20.58 | 20.58 | 0.00 | 1 |
| **111.08** | 21.75 | 21.75 | 0.00 | 1 |
| **111.32** | 24.51 | 24.51 | 0.00 | 1 |
| **111.51** | 26.48 | 26.48 | 0.00 | 1 |
| **111.74** | 28.45 | 28.45 | 0.00 | 1 |
| **112.00** | 30.41 | 30.41 | 0.00 | 1 |
| **112.24** | 32.38 | 32.38 | 0.00 | 1 |
| **112.49** | 34.34 | 34.34 | 0.00 | 1 |
| **112.76** | 36.31 | 36.31 | 0.00 | 1 |
| **115.91** | 55.68 | 55.68 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 12




## Culvert Data: Post CD-12

### Table 1 - Culvert Summary Table: Post CD-12

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **16.65 cfs** | 16.65 cfs | 110.66 | 2.01 | 2.181 | 2-M2c | 2.50 | 1.38 | 1.38 | 1.19 | 6.00 | 0.00 |
| **18.62 cfs** | 18.62 cfs | 110.82 | 2.14 | 2.340 | 2-M2c | 2.50 | 1.46 | 1.46 | 1.26 | 6.24 | 0.00 |
| **20.58 cfs** | 20.58 cfs | 110.98 | 2.28 | 2.501 | 7-M2c | 2.50 | 1.54 | 1.54 | 1.32 | 6.48 | 0.00 |
| **21.75 cfs** | 21.75 cfs | 111.08 | 2.36 | 2.598 | 7-M2c | 2.50 | 1.59 | 1.59 | 1.36 | 6.63 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **24.51 cfs** | 24.51 cfs | 111.32 | 2.56 | 2.838 | 7-M2c | 2.50 | 1.69 | 1.69 | 1.50 | 6.96 | 0.00 |
| **26.48 cfs** | 26.48 cfs | 111.51 | 2.71 | 3.032 | 7-M2c | 2.50 | 1.75 | 1.75 | 1.61 | 7.20 | 0.00 |
| **28.45 cfs** | 28.45 cfs | 111.74 | 2.87 | 3.261 | 7-M2c | 2.50 | 1.82 | 1.82 | 1.71 | 7.44 | 0.00 |
| **30.41 cfs** | 30.41 cfs | 112.00 | 3.04 | 3.521 | 7-M2c | 2.50 | 1.88 | 1.88 | 1.81 | 7.68 | 0.00 |
| **32.38 cfs** | 32.38 cfs | 112.24 | 3.22 | 3.762 | 7-M2c | 2.50 | 1.94 | 1.94 | 1.91 | 7.93 | 0.00 |
| **34.34 cfs** | 34.34 cfs | 112.49 | 3.41 | 4.008 | 7-M2t | 2.50 | 1.99 | 2.02 | 2.02 | 8.09 | 0.00 |
| **36.31 cfs** | 36.31 cfs | 112.76 | 3.62 | 4.281 | 7-M2t | 2.50 | 2.04 | 2.12 | 2.12 | 8.18 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

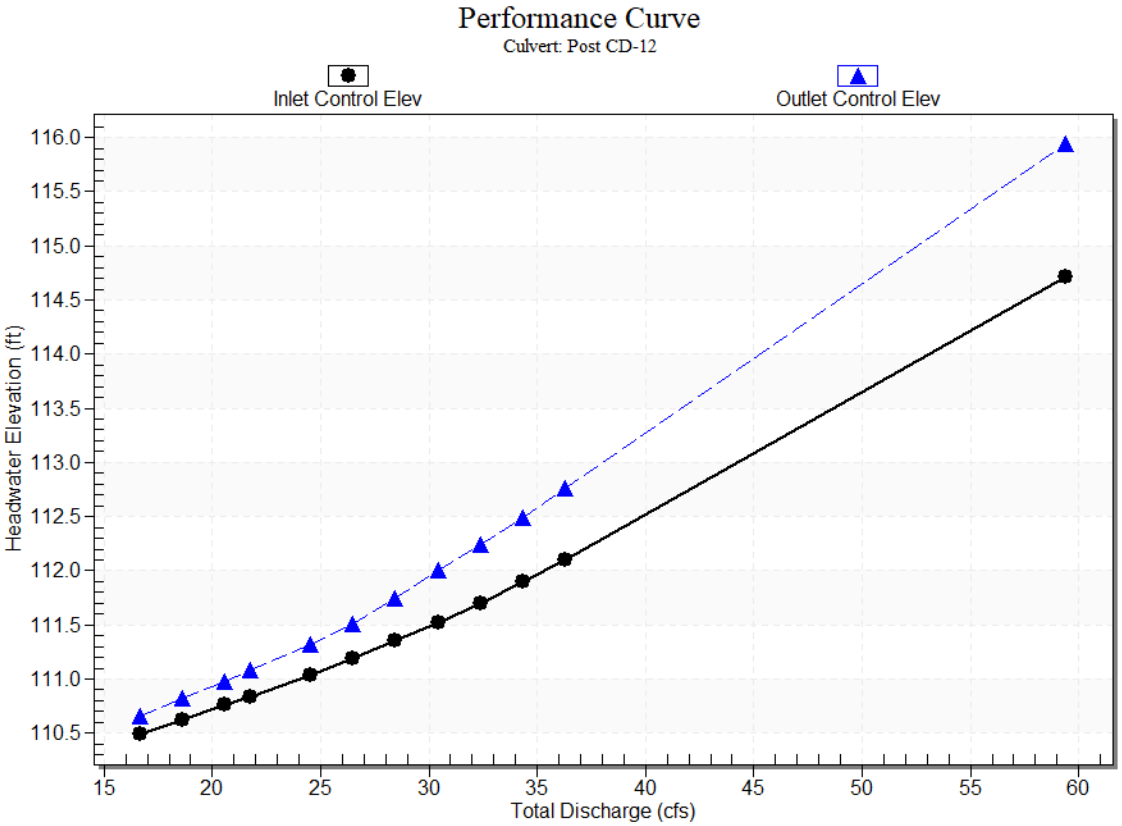
Inlet Elevation (invert): 108.48 ft,

Outlet Elevation (invert): 108.27 ft

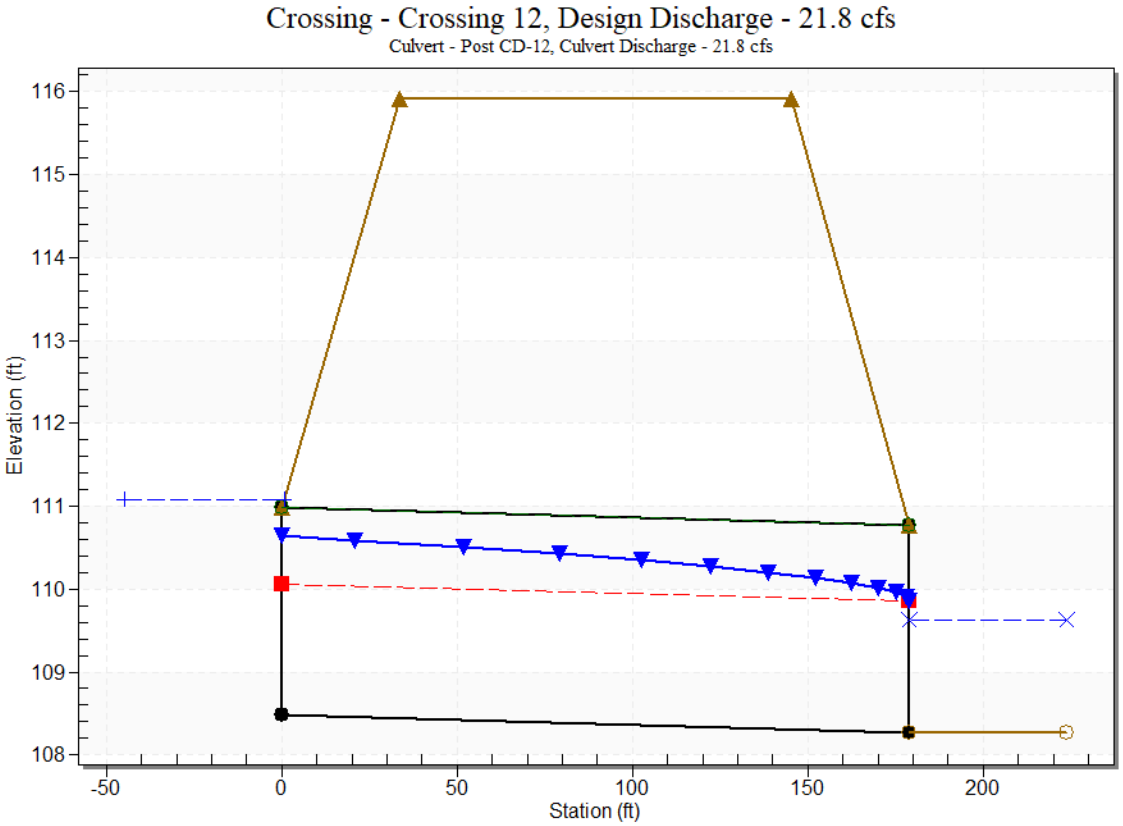
Culvert Length: 178.97 ft,

Culvert Slope: 0.0012

## Culvert Performance Curve Plot: Post CD-12



## Water Surface Profile Plot for Culvert: Post CD-12




## Site Data - Post CD-12

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 108.48 ft

Outlet Station: 178.97 ft

Outlet Elevation: 108.27 ft

Number of Barrels: 1

## Culvert Data Summary - Post CD-12

Barrel Shape: Circular

Barrel Diameter: 2.50 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 12

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 12)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **16.65** | 109.46 | 109.46 | 0.00 |
| **21.75** | 109.63 | 109.63 | 0.00 |
| **36.31** | 110.39 | 110.39 | 0.00 |

## Tailwater Channel Data - Crossing 12

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 12

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 164.00 ft

Crest Elevation: 115.91 ft

Roadway Surface: Paved

Roadway Top Width: 112.00 ft

# HY-8 Culvert Analysis Report – CD-13

## Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 15.48 cfs

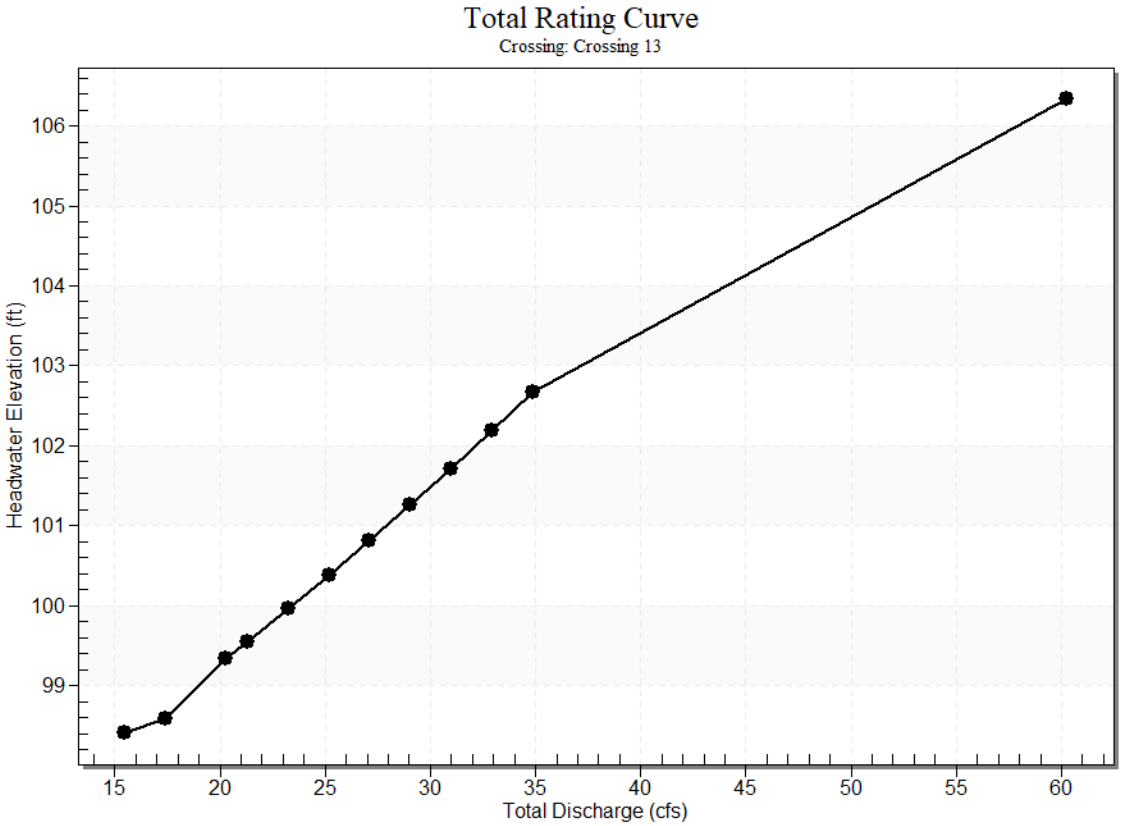
Design Flow: 20.25 cfs

Maximum Flow: 34.87 cfs

**Table 1 - Summary of Culvert Flows at Crossing: Crossing 13**

| Headwater Elevation (ft) | Total Discharge (cfs) | Post CD-13 Discharge (cfs) | Roadway Discharge (cfs) | Iterations |
|---|---|---|---|---|
| **98.42** | 15.48 | 15.48 | 0.00 | 1 |
| **98.58** | 17.42 | 17.42 | 0.00 | 1 |
| **99.34** | 20.25 | 20.25 | 0.00 | 1 |
| **99.55** | 21.30 | 21.30 | 0.00 | 1 |
| **99.96** | 23.24 | 23.24 | 0.00 | 1 |
| **100.38** | 25.17 | 25.17 | 0.00 | 1 |
| **100.81** | 27.11 | 27.11 | 0.00 | 1 |
| **101.26** | 29.05 | 29.05 | 0.00 | 1 |
| **101.72** | 30.99 | 30.99 | 0.00 | 1 |
| **102.19** | 32.93 | 32.93 | 0.00 | 1 |
| **102.68** | 34.87 | 34.87 | 0.00 | 1 |
| **106.30** | 57.09 | 57.09 | 0.00 | Overtopping |

### Rating Curve Plot for Crossing: Crossing 13




## Culvert Data: Post CD-13

### Table 1 - Culvert Summary Table: Post CD-13

| Total Discharge (cfs) | Culvert Discharge (cfs) | Headwater Elevation (ft) | Inlet Control Depth (ft) | Outlet Control Depth (ft) | Flow Type | Normal Depth (ft) | Critical Depth (ft) | Outlet Depth (ft) | Tailwater Depth (ft) | Outlet Velocity (ft/s) | Tailwater Velocity (ft/s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **15.48 cfs** | 15.48 cfs | 98.42 | 1.92 | 2.206 | 2-M2c | 2.50 | 1.33 | 1.33 | 0.58 | 5.85 | 0.00 |
| **17.42 cfs** | 17.42 cfs | 98.58 | 2.06 | 2.370 | 2-M2c | 2.50 | 1.41 | 1.41 | 1.34 | 6.09 | 0.00 |
| **20.25 cfs** | 20.25 cfs | 99.34 | 2.26 | 3.127 | 7-M2t | 2.50 | 1.53 | 2.50 | 2.46 | 4.14 | 0.00 |
| **21.30 cfs** | 21.30 cfs | 99.55 | 2.33 | 3.341 | 4-FFf | 2.50 | 1.57 | 2.50 | 2.60 | 4.34 | 0.00 |
| **23.24** | 23.24 | 99.96 | 2.47 | 3.74 | 4- | 2.50 | 1.64 | 2.5 | 2.85 | 4.73 | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **cfs** | cfs | | | 8 | FFf | | | 0 | | | |
| **25.17 cfs** | 25.17 cfs | 100.38 | 2.61 | 4.167 | 4-FFf | 2.50 | 1.71 | 2.50 | 3.10 | 5.13 | 0.00 |
| **27.11 cfs** | 27.11 cfs | 100.81 | 2.76 | 4.601 | 4-FFf | 2.50 | 1.78 | 2.50 | 3.36 | 5.52 | 0.00 |
| **29.05 cfs** | 29.05 cfs | 101.26 | 2.92 | 5.047 | 4-FFf | 2.50 | 1.84 | 2.50 | 3.61 | 5.92 | 0.00 |
| **30.99 cfs** | 30.99 cfs | 101.72 | 3.09 | 5.507 | 4-FFf | 2.50 | 1.90 | 2.50 | 3.86 | 6.31 | 0.00 |
| **32.93 cfs** | 32.93 cfs | 102.19 | 3.27 | 5.980 | 4-FFf | 2.50 | 1.95 | 2.50 | 4.12 | 6.71 | 0.00 |
| **34.87 cfs** | 34.87 cfs | 102.68 | 3.47 | 6.466 | 4-FFf | 2.50 | 2.01 | 2.50 | 4.37 | 7.10 | 0.00 |

## Culvert Barrel Data

Culvert Barrel Type Straight Culvert

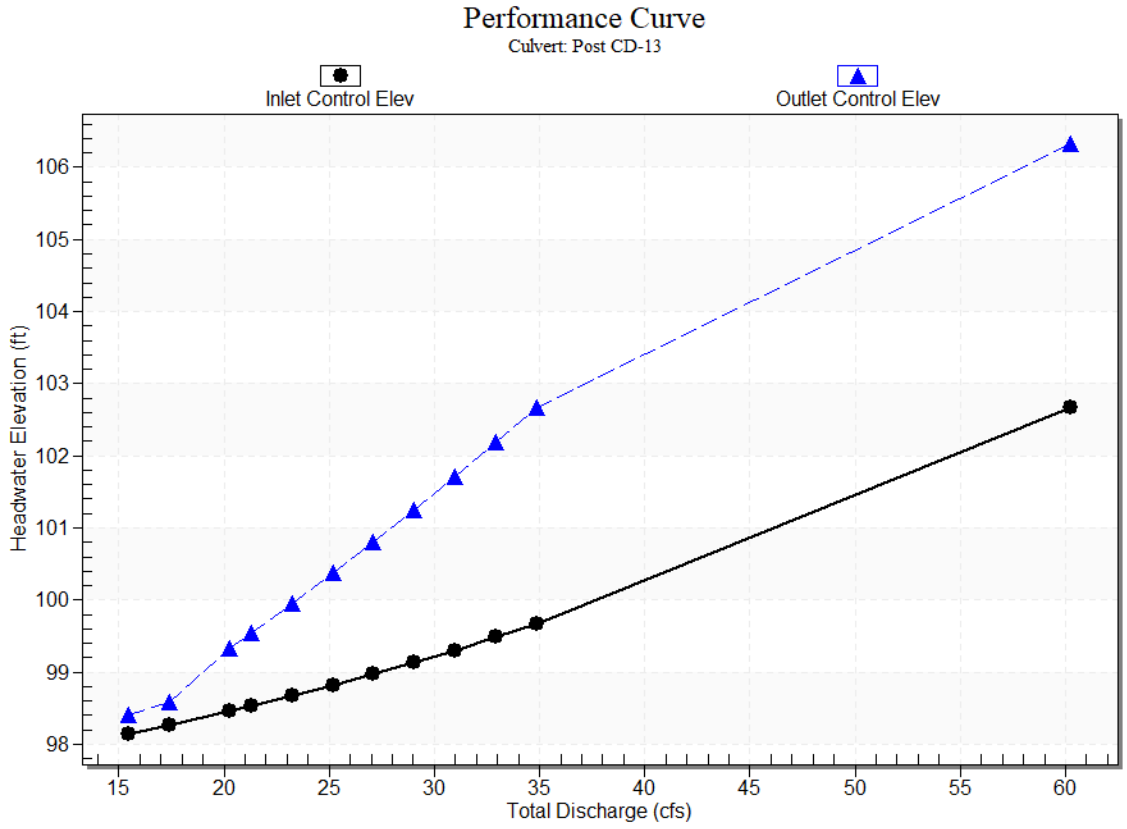
Inlet Elevation (invert): 96.21 ft,

Outlet Elevation (invert): 96.15 ft

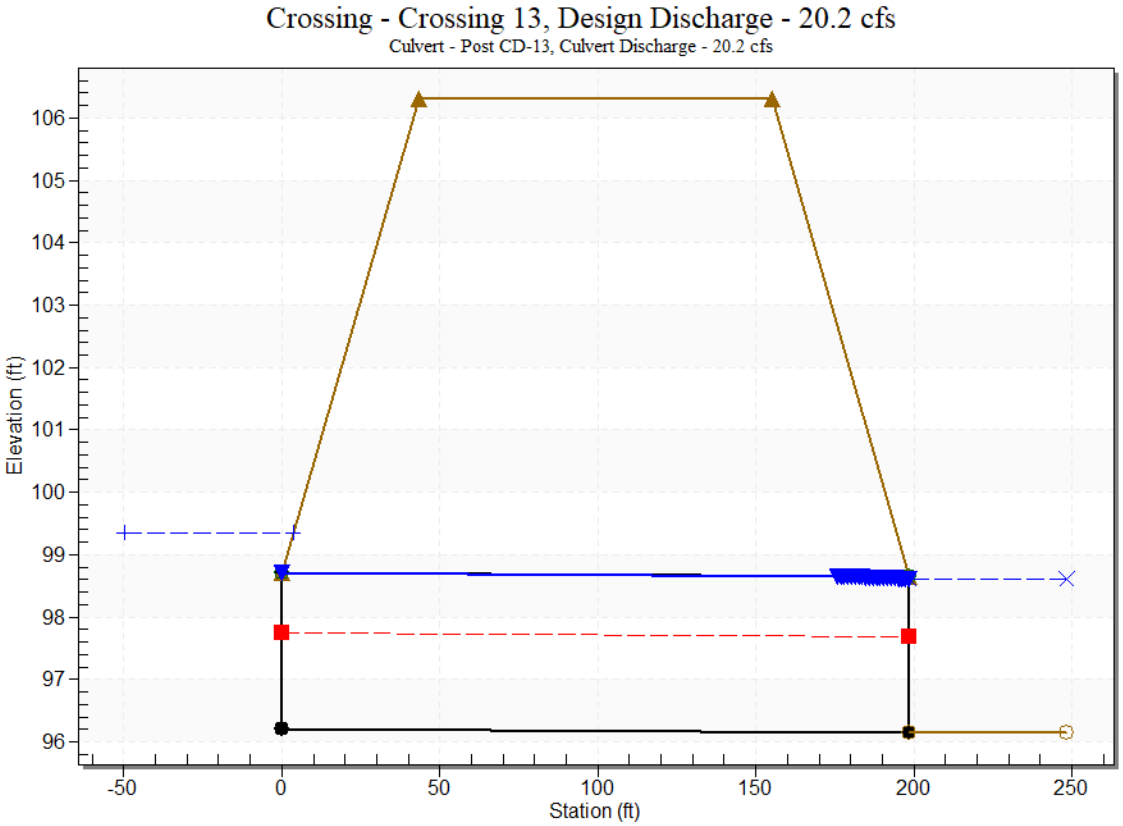
Culvert Length: 198.60 ft,

Culvert Slope: 0.0003

### Culvert Performance Curve Plot: Post CD-13



## Water Surface Profile Plot for Culvert: Post CD-13




## Site Data - Post CD-13

Site Data Option: Culvert Invert Data

Inlet Station: 0.00 ft

Inlet Elevation: 96.21 ft

Outlet Station: 198.60 ft

Outlet Elevation: 96.15 ft

Number of Barrels: 1

## Culvert Data Summary - Post CD-13

Barrel Shape: Circular

Barrel Diameter: 2.50 ft

Barrel Material: Concrete

Embedment: 0.00 in

Barrel Manning's n: 0.0120

Culvert Type: Straight

Inlet Configuration: Beveled Edge (1:1) (Ke=0.2)

Inlet Depression: None

## Tailwater Data for Crossing: Crossing 13

**Table 2 - Downstream Channel Rating Curve (Crossing: Crossing 13)**

| Flow (cfs) | Water Surface Elev (ft) | Depth (ft) | Velocity (ft/s) |
|---|---|---|---|
| **15.48** | 96.73 | 96.73 | 0.00 |
| **20.25** | 98.61 | 98.61 | 0.00 |
| **34.87** | 100.52 | 100.52 | 0.00 |

## Tailwater Channel Data - Crossing 13

Tailwater Channel Option: Enter Rating Curve

Channel Invert Elevation: Enter Rating Curve

## Roadway Data for Crossing: Crossing 13

Roadway Profile Shape: Constant Roadway Elevation

Crest Length: 164.00 ft

Crest Elevation: 106.30 ft

Roadway Surface: Paved

Roadway Top Width: 112.00 ft

# APPENDIX D

# FLOODPLAIN ENCROACHMENT AND COMPENSATION

**Floodplain Encroachment Calculations for Proposed Roadway Development**

| FIA # | Basin Name | Node Name | SHWL EL. (ft, NAVD 88) | 100 Yr Elevation (ft, NAVD 88) | FPC Required (Acre*ft) |
|---|---|---|---|---|---|
| 1301 | 106 | N-106 | 117.30 | 119.19 | 4.02 |
| | 107 | N-107 | 117.83 | 118.65 | 0.43 |
| 1303 | 109 | N-109 | 114.50 | 115.99 | 1.98 |
| | 108 | N-108 | 114.50 | 115.99 | 0.18 |
| 1306 | 109A | N-109A | 110.00 | 114.06 | 0.27 |
| | 109B | N-109B | 108.50 | 112.86 | 0.18 |
| 1309 | 119 | N-119 | 77.20 | 80.00 | 1.08 |

**Floodplain Encroachments and Compensations for SMFs**

| SMF # | Site | Basin Name | Node Name | SHW EL. (Initial stage) (ft) | 100-Yr EL. (ft) | Impacted Volume (Fill) 100 Yr-stage (acre-ft) | Impacted Volume (Fill) SHWL (acre-ft) | FPC Needed per Basin (Acre*ft) | FPC Needed per site (Acre*ft) |
|---|---|---|---|---|---|---|---|---|---|
| 1301 | A | B106A | N106A | 117.25 | 119.55 | 0.000 | 0.000 | 0.000 | 0.093 |
| | | B106 | N106 | 117.3 | 119.19 | 0.093 | 0.000 | 0.093 | |
| 1302 | C | B115 | N115 | 91.7 | 98.57 | 0.063 | 0.000 | 0.063 | 0.073 |
| | | B115A | N115A | 94.45 | 104.3 | 0.011 | 0.000 | 0.011 | |
| 1303 | A | B128 | N128 | 43 | 43.24 | 0.000 | 0.000 | 0.000 | 0.079 |
| | | B128A | N128A | 43.1 | 44.93 | 0.000 | 0.000 | 0.000 | |
| | | B128B | N128B | 43.1 | 44.69 | 0.000 | 0.000 | 0.000 | |
| | | B128C | N128C | 43.2 | 45.14 | 0.079 | 0.000 | 0.079 | |

**Floodplain Combined Encroachments and Compensations for Preferred Alternatives**

| FIA | | | | | |
|---|---|---|---|---|---|
| FPC Name | Basin Name | SHWL | 100-YR Floodplain EL. (ft) | FIA (acre-ft) | FPC Required (acre-ft) |
| 1301 | 106 | 117.30 | 119.19 | 4.02 | 4.45 |
| | 107 | 117.83 | 118.65 | 0.43 | |
| 1303 | 109 | 114.50 | 115.99 | 1.98 | 2.16 |
| | 108 | 114.50 | 115.99 | 0.18 | |
| 1306 | 109A | 110.00 | 114.06 | 0.27 | 0.45 |
| | 109B | 108.50 | 112.86 | 0.18 | |
| 1309 | 119 | 77.20 | 80.00 | 1.08 | 1.08 |

| FPC Name | Preferred Alternatives | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Bottom Elevation | Avg SHWL EL. (ft) | Top Elevation | Depth (ft) | Bottom Area (Acre) | Top Area (Acre) | Average Area (Acre) | FPC Provided (Acre-ft) |
| 1301A | 117.60 | 117.65 | 119.19 | 1.59 | 2.99 | 3.24 | 3.12 | 4.96 |
| 1303A | 114.50 | 114.50 | 115.99 | 1.49 | 1.65 | 1.53 | 1.59 | 2.37 |
| 1306A | 111.00 | 108.50 | 114.06 | 3.06 | 0.33 | 0.17 | 0.25 | 0.76 |
| 1309C | 77.20 | <85.7 | 80.01 | 2.81 | 0.39 | 0.42 | 0.41 | 1.14 |

**Runoff and Encroachment Volume Comparison**

| FIA # (Basin 101) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 123.64 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 119.66 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.878 | per survey |
| A (ac) | 0.927 | 0.718 | | | Fill Volume SHWL (ac-ft) | 0.002 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.224 | 0.549 | **0.773** | Acre-ft | **Volume** | **0.876** | Acre-ft |

| FIA # (Basin 102) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 123.64 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 119.49 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.833 | per survey |
| A (ac) | 2.230 | 0.859 | | | Fill Volume SHWL (ac-ft) | 0.000 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.539 | 0.656 | **1.196** | Acre-ft | **Volume** | **0.833** | Acre-ft |
| TOTAL Volume (101 & 102) | | | **1.969** | | TOTAL Volume (101 & 102) | 1.709 | |

| FIA # (Basin 103) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 122.03 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 120.50 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.381 | per survey |
| A (ac) | 1.129 | 0.603 | | | Fill Volume SHWL (ac-ft) | 0.004 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.273 | 0.460 | **0.734** | Acre-ft | **Volume** | **0.377** | Acre-ft |

| FIA # (Basin 104) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 121.42 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 120.82 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.451 | per survey |
| A (ac) | 2.715 | 0.485 | | | Fill Volume SHWL (ac-ft) | 0.112 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.657 | 0.371 | **1.028** | Acre-ft | **Volume** | **0.338** | Acre-ft |

| FIA # (Basin 110) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 115.11 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 112.60 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.022 | per survey |
| A (ac) | 0.682 | 0.000 | | | Fill Volume SHWL (ac-ft) | 0.000 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.165 | 0.000 | **0.165** | Acre-ft | **Volume** | **0.022** | Acre-ft |

Note: Assumed 14' offset from exist. ROW to back of ditch berm

| FIA # (Basin 111) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 115.11 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 110.00 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.218 | per survey |
| A (ac) | 0.428 | 0.000 | | | Fill Volume SHWL (ac-ft) | 0.000 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.104 | 0.000 | **0.104** | Acre-ft | **Volume** | **0.218** | Acre-ft |
| TOTAL Volume (110 & 111) | | | **0.269** | | TOTAL Volume (110 & 111) | 0.240 | |

Note: Assumed 14' offset from exist. ROW to back of ditch berm

**Runoff and Encroachment Volume Comparison**

| FIA # (Basin 114) | | | | | | |
|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 106.44 |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 91.40 |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.001 |
| A (ac) | 0.665 | 0.396 | | | Fill Volume SHWL (ac-ft) | 0.000 |
| Q (in) | 2.902 | 9.169 | | | | |
| **Volume** | 0.161 | 0.303 | **0.463** | Acre-ft | **Volume** | **0.001** Acre-ft |

| FIA # (Basin 115A) | | | | | | |
|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 104.3 |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 94.45 |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.011 per survey LiDAR |
| A (ac) | 1.157 | 0.000 | | | Fill Volume SHWL (ac-ft) | 0.000 per survey LiDAR |
| Q (in) | 2.902 | 9.169 | | | | |
| **Volume** | 0.280 | 0.000 | **0.280** | Acre-ft | **Volume** | **0.011** Acre-ft |

| FIA # (Basin 115) | | | | | | |
|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 98.57 |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 91.70 |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.063 per survey |
| A (ac) | 1.843 | 0.203 | | | Fill Volume SHWL (ac-ft) | 0.000 per survey |
| Q (in) | 2.902 | 9.169 | | | | |
| **Volume** | 0.446 | 0.155 | **0.601** | Acre-ft | **Volume** | **0.063** Acre-ft |

Note: Assumed 44' offset from prop. ROW to back of ditch berm

| FIA # (Basin 116) | | | | | | |
|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 99.07 |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 96.21 |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.003 per survey |
| A (ac) | 0.779 | 0.361 | | | Fill Volume SHWL (ac-ft) | 0.000 per survey |
| Q (in) | 2.902 | 9.169 | | | | |
| **Volume** | 0.188 | 0.276 | **0.464** | Acre-ft | **Volume** | **0.003** Acre-ft |

Note: Assumed 16' offset from exist. ROW to back of ditch berm

| FIA # (Basin 117) | | | | | | |
|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 97.19 |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 84.43 |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.169 per survey |
| A (ac) | 3.620 | 0.483 | | | Fill Volume SHWL (ac-ft) | 0.000 per survey |
| Q (in) | 2.902 | 9.169 | | | | |
| **Volume** | 0.876 | 0.369 | **1.244** | Acre-ft | **Volume** | **0.169** Acre-ft |

Note: Assumed 44' offset from prop. ROW to back of ditch berm

**Runoff and Encroachment Volume Comparison**

| FIA # (Basin 123) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 46.1 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 45.40 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.501 | per survey |
| A (ac) | 0.562 | 0.135 | | | Fill Volume SHWL (ac-ft) | 0.314 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.136 | 0.103 | **0.239** | Acre-ft | **Volume** | **0.186** | Acre-ft |

| FIA # (Basin 123A) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 45.91 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 45.40 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.790 | per survey |
| A (ac) | 1.572 | 0.000 | | | Fill Volume SHWL (ac-ft) | 0.289 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.380 | 0.000 | **0.380** | Acre-ft | **Volume** | **0.501** | Acre-ft |

| FIA # (Basin 125) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 45.42 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 42.80 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.347 | per survey |
| A (ac) | 0.592 | 0.106 | | | Fill Volume SHWL (ac-ft) | 0.020 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.143 | 0.081 | **0.224** | Acre-ft | **Volume** | **0.327** | Acre-ft |

| FIA # (Basin 125A) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 45.39 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 42.80 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.158 | per survey |
| A (ac) | 0.568 | 0.000 | | | Fill Volume SHWL (ac-ft) | 0.000 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.137 | 0.000 | **0.137** | Acre-ft | **Volume** | **0.158** | Acre-ft |

| FIA # (Basin 127) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 43.33 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 43.00 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 1.745 | per survey |
| A (ac) | 1.728 | 0.292 | | | Fill Volume SHWL (ac-ft) | 1.550 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.418 | 0.223 | **0.641** | Acre-ft | **Volume** | **0.195** | Acre-ft |
| TOTAL Volume [1] | | | **1.622** | | TOTAL Volume [1] | 1.367 | |

[1] Total volume of connected Basins 123, 123A, 125, 125A, & 127

| FIA # (Basin 127A) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 44.08 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 43.80 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 0.078 | per survey |
| A (ac) | 2.389 | 0.000 | | | Fill Volume SHWL (ac-ft) | 0.035 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.578 | 0.000 | **0.578** | Acre-ft | **Volume** | **0.042** | Acre-ft |

| FIA # (Basin 127B) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Runoff to Pond | | | | | Floodplain Encroachment | | |
| CN | 48 | 98 | | | 100-yr Floodplain Elevation (ft) | 45.22 | |
| P (in) | 9.41 | | | | SHW Elevation (ft) | 43.30 | |
| S (in) | 10.833 | 0.204 | | | Fill Volume 100-yr (ac-ft) | 1.536 | per survey |
| A (ac) | 1.355 | 0.000 | | | Fill Volume SHWL (ac-ft) | 0.000 | per survey |
| Q (in) | 2.902 | 9.169 | | | | | |
| **Volume** | 0.328 | 0.000 | **0.328** | Acre-ft | **Volume** | **1.536** | Acre-ft |

**Hydraulic Conductivity Table for ICPR model**

| Used in Model | | NRCS Info | | | Factorized Conductivity | |
|---|---|---|---|---|---|---|
| **Basin Name** | **Percolation Link Name** | **Map Unit Symbol** | **Soil Hydro Group** | **Soil Composition** | ***Horiz Conductivity** | ****Vert. Conductivity** |
| 105 | PC-105 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 106 | PC-106 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 108 | PC-108 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 109 | PC-109 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 111 | PC-111 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 112 | PC-112 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 114 | PC-114 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 119 | PC-119 | 45 | A & A/D | Paola-Basinger sands, rolling | 2 | 1 |
| 118 | PC-118 | 21 | A/D | Hontoon muck, frequently ponded | 39.96 | 19.98 |
| | | 45 | A & A/D | Paola-Basinger sands, rolling | | |
| 120 | PC-120 | 21 | A/D | Hontoon muck, frequently ponded | 45 | 18.5 |
| | | 45 | A & A/D | Paola-Basinger sands, rolling | | |
| 128 | PC-128 | 13 | A/D | Felda fine sand | 12 | 6 |
| | | 8 | B/D | Immokalee sand | | |
| 126-1 | PC_126-1 | 26 | A/D | Tequesta muck, frequently ponded | 11.9 | 5.95 |
| 110 | PC-110 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 113 | PC-113 | 45 | A & A/D | Paola-Basinger sands, rolling | 45 | 22.5 |
| 115A | PC-115A | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 115 | PC-115 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 115-1 | PC-115-1 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 117 | PC-117 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |
| 117-1 | PC-117-1 | 45 | A & A/D | Paola-Basinger sands, rolling | 9 | 4.5 |

*Vertical Factor of Safety 0.5

**The horizontal hydraulic conductivity is assumed to be twice the vertical conductivity.

## Manual Basin: 100

Scenario: Scenario1
Node: N-100
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.9145 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.6722 | Transportation | A | | | |
| 0.2423 | Other Open Lands <Rural> | A | | | |

Comment:

## Manual Basin: 101

Scenario: Scenario1
Node: N-101
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 12.2248 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 1.3593 | Transportation | A | | | |
| 0.0007 | Residential High Density | A | | | |
| 10.8208 | Other Open Lands <Rural> | A | | | |
| 0.0439 | Nurseries and Vineyards | A | | | |

Comment:

## Manual Basin: 102

Scenario: Scenario1
Node: N-102

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 17.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 14.3224 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 11.4689 | Tree Crops | A | | | |
| 2.8535 | Transportation | A | | | |

Comment:

## Manual Basin: 103

Scenario: Scenario1
Node: N-103
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 8.6241 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 2.8300 | Residential High Density | A | | | |
| 1.5132 | Other Open Lands <Rural> | A | | | |
| 4.2810 | Nurseries and Vineyards | A | | | |

Comment:

## Manual Basin: 104

Scenario: Scenario1
Node: N-104
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 3.8066 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.0476 | Tree Crops | A | | | |
| 3.6962 | Residential High Density | A | | | |
| 0.0616 | Transportation | A | | | |
| 0.0012 | Other Open Lands <Rural> | A | | | |

Comment:

## Manual Basin: 105

Scenario: Scenario1
Node: N-105
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 9.6542 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 8.4867 | Residential Low Density | A | | | |
| 0.0033 | Open Land | A | | | |
| 0.2725 | Residential High Density | A | | | |
| 0.8917 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 106

Scenario: Scenario1
Node: N-106
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 15.1390 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 6.8217 | Open Land | A | | | |
| 6.3186 | Tree Crops | A | | | |
| 1.1441 | Vegetated Non-Forested Wetlands | A | | | |
| 0.6780 | Commercial and Services | A | | | |
| 0.0577 | Residential High Density | A | | | |
| 0.1188 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 106A

Scenario: Scenario1
Node: N-106A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 5.5559 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.9591 | Open Land | A | | | |
| 0.5968 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 106B

Scenario: Scenario1
Node: N-106B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number

Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 5.9703 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.2348 | Open Land | A | | | |
| 1.7355 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 107

Scenario: Scenario1
Node: N-107
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 10.9646 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.1927 | Residential Low Density | A | | | |
| 0.0986 | Open Land | A | | | |
| 6.6733 | Tree Crops | A | | | |

Comment:

## Manual Basin: 107A

Scenario: Scenario1
Node: N-107A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 2.3027 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.2743 | Tree Crops | A | | | |
| 2.0284 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 107B

Scenario: Scenario1
Node: N-107B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.6368 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 1.8020 | Tree Crops | A | | | |
| 0.8349 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 107C

Scenario: Scenario1
Node: N-107C
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.1962 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 2.1947 | Tree Crops | A | | | |
| 0.0016 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 108

Scenario: Scenario1
Node: N-108
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 3.7099 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 3.2244 | Residential Low Density | A | | | |
| 0.4855 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 109

Scenario: Scenario1
Node: N-109
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 5.3584 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 3.1891 | Tree Crops | A | | | |
| 1.8488 | Vegetated Non-Forested Wetlands | A | | | |
| 0.3205 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 109A

Scenario: Scenario1
Node: N-109A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.9637 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 1.3820 | Tree Crops | A | | | |
| 0.5817 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 109B

Scenario: Scenario1
Node: N-109B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 10.4576 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 9.1292 | Tree Crops | A | | | |
| 1.3285 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 109C

Scenario: Scenario1
Node: N-109C
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min

Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 9.1684 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.4524 | Tree Crops | A | | | |
| 4.7160 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 109D

Scenario: Scenario1
Node: N-109D
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.1975 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 1.0775 | Tree Crops | A | | | |
| 0.0011 | Vegetated Non-Forested Wetlands | A | | | |
| 0.1189 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 110

Scenario: Scenario1
Node: N-110
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0
Area: 6.5217 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 5.8537 | Residential Low Density | A | | | |
| 0.6680 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 111

Scenario: Scenario1
Node: N-111
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 3.2183 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 3.2183 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 112

Scenario: Scenario1
Node: N-112
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 7.0891 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 6.7673 | Residential Low Density | A | | | |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.3218 | Vegetated Non-Forested Wetlands | A | | | |

Comment:

## Manual Basin: 113

Scenario: Scenario1
Node: N-113
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.7939 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.4124 | Tree Crops | A | | | |
| 0.3815 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 114

Scenario: Scenario1
Node: N-114
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 6.8120 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 6.8120 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 115

Scenario: Scenario1
Node: N-115
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 17.7007 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 17.4340 | Tree Crops | A | | | |
| 0.2667 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 115A

Scenario: Scenario1
Node: N-115A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.9144 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.5123 | Tree Crops | A | | | |
| 0.4021 | Residential Low Density | A | | | |

Comment:

## Manual Basin: 116

Scenario: Scenario1
Node: N-116
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 8.5513 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 8.1543 | Residential Low Density | A | | | |
| 0.3969 | Open Land | A | | | |

Comment:

## Manual Basin: 117

Scenario: Scenario1
Node: N-117
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 11.1053 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 10.5184 | Tree Crops | A | | | |
| 0.5690 | Residential Low Density | A | | | |
| 0.0180 | Open Land | A | | | |

Comment:

## Manual Basin: 118

Scenario: Scenario1
Node: N-118
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 12.6706 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 9.0474 | Residential Low Density | A | | | |
| 0.3706 | Residential Low Density | A/D | | | |
| 1.2823 | Upland Hardwood Forests | A/D | | | |
| 1.9512 | Cropland and Pastureland | A/D | | | |
| 0.0192 | Tree Crops | A/D | | | |

Comment:

## Manual Basin: 119

Scenario: Scenario1
Node: N-119
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 8.7329 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 6.8138 | Residential Low Density | A | | | |
| 1.9191 | Tree Crops | A | | | |

Comment:

## Manual Basin: 120

Scenario: Scenario1
Node: N-120
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 8.8374 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient | Reference ET |
|---|---|---|---|---|---|

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 5.3460 | Residential Low Density | A | | | |
| 0.1517 | Residential Low Density | A/D | | | |
| 3.3201 | Upland Hardwood Forests | A/D | | | |
| 0.0196 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 120A

Scenario: Scenario1
Node: N-120A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 5.2580 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 3.6155 | Cropland and Pastureland | A/D | | | |
| 0.0142 | Cropland and Pastureland | A | | | |
| 0.2074 | Residential Low Density | A | | | |
| 0.1264 | Residential Low Density | A/D | | | |
| 1.2945 | Upland Hardwood Forests | A/D | | | |

Comment:

## Manual Basin: 120B

Scenario: Scenario1
Node: N-120B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min

Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.0149 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.6137 | Cropland and Pastureland | A/D | | | |
| 1.4012 | Upland Hardwood Forests | A/D | | | |

Comment:

## Manual Basin: 122

Scenario: Scenario1
Node: N-122
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.1958 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.0714 | Cropland and Pastureland | A/D | | | |
| 2.1244 | Tree Crops | A/D | | | |

Comment:

## Manual Basin: 123

Scenario: Scenario1
Node: N-123
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.7485 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient | Reference ET |
|---|---|---|---|---|---|

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.7485 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 123A

Scenario: Scenario1
Node: N-123A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.0071 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.0071 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 124

Scenario: Scenario1
Node: N-124
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.7119 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 2.6857 | Cropland and Pastureland | A/D | | | |
| 0.0236 | Tree Crops | A/D | | | |
| 0.0027 | Wetland Hardwood Forests | A/D | | | |

Comment:

## Manual Basin: 125

Scenario: Scenario1
Node: N-125
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.6975 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.6975 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 125A

Scenario: Scenario1
Node: N-125A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 1.5266 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 1.5266 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 126

Scenario: Scenario1
Node: N-126
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0
Area: 17.0222 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.1960 | Tree Crops | A/D | | | |
| 7.3863 | Cropland and Pastureland | A/D | | | |
| 7.2695 | Residential Low Density | A/D | | | |
| 0.0145 | Wetland Coniferous Forests | A/D | | | |
| 1.4250 | Other Open Lands <Rural> | A/D | | | |
| 0.7309 | Wetland Hardwood Forests | A/D | | | |

Comment:

## Manual Basin: 126A

Scenario: Scenario1
Node: N-126A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 17.3516 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 17.3516 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 127

Scenario: Scenario1
Node: N-127
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256

Peaking Factor: 256.0
Area: 2.0201 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 0.0642 | Cropland and Pastureland | A/D | | | |
| 1.9559 | Tree Crops | A/D | | | |

Comment:

## Manual Basin: 127A

Scenario: Scenario1
Node: N-127A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 11.4058 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 11.3171 | Tree Crops | A/D | | | |
| 0.0888 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 127B

Scenario: Scenario1
Node: N-127B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 11.5862 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 11.3218 | Tree Crops | A/D | | | |
| 0.2644 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 127C

Scenario: Scenario1
Node: N-127C
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 11.2005 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 11.0348 | Tree Crops | A/D | | | |
| 0.1657 | Cropland and Pastureland | A/D | | | |

Comment:

## Manual Basin: 128

Scenario: Scenario1
Node: N-128
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 12.7075 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 9.3529 | Cropland and Pastureland | A/D | | | |
| 1.5479 | Cropland and Pastureland | B/D | | | |
| 1.8065 | Wetland Coniferous Forests | A/D | | | |
| 0.0001 | Residential Low Density | A/D | | | |

Comment:

## Manual Basin: 128A

Scenario: Scenario1
Node: N-128A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 55.1118 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 25.5401 | Cropland and Pastureland | A/D | | | |
| 16.7636 | Cropland and Pastureland | B/D | | | |
| 11.7400 | Vegetated Non-Forested Wetlands | A/D | | | |
| 1.0682 | Vegetated Non-Forested Wetlands | B/D | | | |

Comment:

## Manual Basin: 128B

Scenario: Scenario1
Node: N-128B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 7.6367 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 5.2221 | Cropland and Pastureland | A/D | | | |
| 2.4147 | Cropland and Pastureland | B/D | | | |

Comment:

## Manual Basin: 128C

Scenario: Scenario1
Node: N-128C
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 99999.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.1551 ac

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name | Crop Coefficient Zone | Reference ET Station |
|---|---|---|---|---|---|
| 4.1551 | Cropland and Pastureland | A/D | | | |

Comment:

## Node: N-0350C

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 0.00 ft
Boundary Stage: S CANAL N0350C

Comment:

## Node: GT-105

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

Comment:

## Node: GT-106

Scenario: Scenario1

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

Comment:

## Node: GT-108

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

Comment:

## Node: GT-109

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

Comment:

## Node: GT-110

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

Comment:

Node: GT-111

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

Comment:

Node: GT-112

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

Comment:

Node: GT-113

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

Comment:

Node: GT-114

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

Comment:

Node: GT-115

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

Comment:

Node: GT-115A

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

Comment:

Node: GT-115_1

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

Comment:

Node: GT-117

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

Warning Stage: 0.00 ft
Boundary Stage:

Comment:

Node: GT-117-1

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

Comment:

Node: GT-118

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

Comment:

Node: GT-119

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

Comment:

Node: GT-120

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

Comment:

## Node: GT-126

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

Comment:

## Node: GT-128

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

Comment:

## Node: N-0410

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 0.00 ft
Boundary Stage: N CANAL N0410

Comment:

## Node: N-100

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 123.49 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 125.51 | 0.0001 | 6 |
| 126.00 | 0.0082 | 356 |
| 126.50 | 0.0307 | 1338 |
| 127.00 | 0.0577 | 2512 |
| 127.50 | 0.1112 | 4844 |
| 128.00 | 0.1524 | 6637 |
| 128.50 | 0.1808 | 7875 |
| 129.00 | 0.2179 | 9494 |
| 129.50 | 0.2753 | 11994 |
| 130.00 | 0.3324 | 14481 |
| 130.50 | 0.3917 | 17062 |
| 131.00 | 0.4448 | 19375 |
| 131.50 | 0.4987 | 21725 |
| 132.00 | 0.5556 | 24200 |
| 132.50 | 0.6333 | 27588 |
| 133.00 | 0.7049 | 30706 |
| 133.50 | 0.7589 | 33056 |
| 134.00 | 0.7966 | 34700 |
| 134.50 | 0.8300 | 36156 |
| 135.00 | 0.8635 | 37612 |
| 135.50 | 0.8945 | 38963 |
| 136.00 | 0.9071 | 39515 |
| 136.50 | 0.9120 | 39726 |
| 137.00 | 0.9120 | 39726 |
| 123.49 | 0.0100 | 436 |

Comment:

## Node: N-101

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 119.66 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 120.37 | 0.0004 | 19 |
| 120.50 | 0.0016 | 69 |
| 121.00 | 0.0204 | 887 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 121.50 | 0.0554 | 2412 |
| 122.00 | 0.1400 | 6100 |
| 122.50 | 0.2742 | 11944 |
| 123.00 | 0.4372 | 19044 |
| 123.50 | 0.8366 | 36444 |
| 124.00 | 1.5988 | 69644 |
| 124.50 | 2.8702 | 125025 |
| 125.00 | 4.2806 | 186463 |
| 125.50 | 5.2916 | 230500 |
| 126.00 | 5.9820 | 260575 |
| 126.50 | 6.4697 | 281819 |
| 127.00 | 6.9823 | 304150 |
| 127.50 | 7.6067 | 331350 |
| 128.00 | 8.2518 | 359450 |
| 128.50 | 8.9321 | 389081 |
| 129.00 | 9.5216 | 414763 |
| 129.50 | 10.1003 | 439969 |
| 130.00 | 10.6993 | 466063 |
| 130.50 | 11.3054 | 492462 |
| 131.00 | 11.7419 | 511475 |
| 131.50 | 11.9918 | 522363 |
| 132.00 | 12.1097 | 527500 |
| 132.50 | 12.1518 | 529331 |
| 133.00 | 12.1953 | 531229 |
| 133.50 | 12.1953 | 531229 |
| 119.66 | 0.0100 | 436 |

Comment:

## Node: N-102

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 119.49 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 120.12 | 0.0001 | 6 |
| 120.50 | 0.0053 | 231 |
| 121.00 | 0.0607 | 2644 |
| 121.50 | 0.1369 | 5962 |
| 122.00 | 0.2311 | 10069 |
| 122.50 | 0.3680 | 16031 |
| 123.00 | 0.5250 | 22869 |
| 123.50 | 0.7085 | 30863 |
| 124.00 | 1.0246 | 44631 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 124.50 | 1.5266 | 66500 |
| 125.00 | 2.1047 | 91681 |
| 125.50 | 2.5468 | 110938 |
| 126.00 | 2.9512 | 128556 |
| 126.50 | 3.3308 | 145088 |
| 127.00 | 3.7398 | 162906 |
| 127.50 | 4.1912 | 182569 |
| 128.00 | 4.6501 | 202556 |
| 128.50 | 5.1356 | 223706 |
| 129.00 | 5.6537 | 246275 |
| 129.50 | 6.2638 | 272850 |
| 130.00 | 6.8140 | 296819 |
| 130.50 | 7.6944 | 335169 |
| 131.00 | 8.5309 | 371606 |
| 131.50 | 9.5495 | 415975 |
| 132.00 | 10.5601 | 460000 |
| 132.50 | 11.4912 | 500556 |
| 133.00 | 12.2602 | 534056 |
| 133.50 | 12.8520 | 559831 |
| 134.00 | 13.3412 | 581144 |
| 134.50 | 13.9051 | 605706 |
| 135.00 | 14.2542 | 620913 |
| 135.50 | 14.2921 | 622563 |
| 136.00 | 14.2921 | 622563 |
| 119.49 | 0.0100 | 436 |

Comment:

## Node: N-103

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 120.50 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 119.98 | 0.0003 | 13 |
| 120.00 | 0.0006 | 25 |
| 120.50 | 0.0991 | 4319 |
| 121.00 | 0.2316 | 10087 |
| 121.50 | 0.3693 | 16087 |
| 122.00 | 0.8300 | 36156 |
| 122.50 | 2.1666 | 94375 |
| 123.00 | 3.2302 | 140706 |
| 123.50 | 5.6148 | 244581 |
| 124.00 | 6.6480 | 289587 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 124.50 | 8.0317 | 349863 |
| 125.00 | 8.5696 | 373294 |
| 125.50 | 8.5879 | 374087 |
| 126.00 | 8.5888 | 374128 |
| 126.50 | 8.5891 | 374143 |
| 127.00 | 8.5896 | 374161 |
| 127.50 | 8.5900 | 374180 |
| 128.00 | 8.5904 | 374199 |
| 128.50 | 8.6002 | 374626 |
| 129.00 | 8.6002 | 374626 |

Comment:

## Node: N-104

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 120.82 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 119.77 | 0.0001 | 6 |
| 120.00 | 0.0653 | 2844 |
| 120.50 | 0.2373 | 10337 |
| 121.00 | 0.5690 | 24788 |
| 121.50 | 1.0329 | 44994 |
| 122.00 | 1.7753 | 77331 |
| 122.50 | 2.2446 | 97775 |
| 123.00 | 2.4746 | 107794 |
| 123.50 | 2.6758 | 116556 |
| 124.00 | 2.9211 | 127244 |
| 124.50 | 3.2587 | 141950 |
| 125.00 | 3.5217 | 153406 |
| 125.50 | 3.7049 | 161387 |
| 126.00 | 3.7796 | 164638 |
| 126.50 | 3.7845 | 164851 |
| 127.00 | 3.7845 | 164851 |

Comment:

## Node: N-105

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs

Initial Stage: 116.50 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 115.19 | 0.0003 | 13 |
| 115.50 | 0.0428 | 1862 |
| 116.00 | 0.7688 | 33487 |
| 116.50 | 1.6591 | 72269 |
| 117.00 | 2.4486 | 106662 |
| 117.50 | 3.1894 | 138931 |
| 118.00 | 3.8956 | 169694 |
| 118.50 | 4.6208 | 201281 |
| 119.00 | 5.4247 | 236300 |
| 119.50 | 6.1255 | 266825 |
| 120.00 | 6.6824 | 291087 |
| 120.50 | 7.1435 | 311169 |
| 121.00 | 7.7103 | 335862 |
| 121.50 | 8.5837 | 373906 |
| 122.00 | 9.1509 | 398613 |
| 122.50 | 9.3727 | 408275 |
| 123.00 | 9.4678 | 412419 |
| 123.50 | 9.5914 | 417800 |
| 124.00 | 9.6380 | 419832 |
| 124.50 | 9.6380 | 419832 |

Comment: **THE GROUND EL FOR THE WETLAND SHAPE IS 116.5'

**SHGWT 355R IS OPPOSITE SIDE AND EL IS 119.8'.

**SHW1303L: SHW 116.8 CLOSEST HISTORICAL BORING

## Node: N-106

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 117.30 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 114.79 | 0.0001 | 6 |
| 115.00 | 0.0016 | 69 |
| 115.50 | 0.0627 | 2731 |
| 116.00 | 0.2412 | 10506 |
| 116.50 | 0.6276 | 27338 |
| 117.00 | 1.1189 | 48737 |
| 117.50 | 1.8796 | 81875 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 118.00 | 2.7584 | 120156 |
| 118.50 | 3.7298 | 162469 |
| 119.00 | 4.6262 | 201519 |
| 119.50 | 5.5769 | 242931 |
| 120.00 | 6.6077 | 287831 |
| 120.50 | 7.9063 | 344400 |
| 121.00 | 9.1441 | 398319 |
| 121.50 | 10.1488 | 442081 |
| 122.00 | 10.9800 | 478287 |
| 122.50 | 11.9291 | 519631 |
| 123.00 | 12.9071 | 562231 |
| 123.50 | 14.1127 | 614750 |
| 124.00 | 14.7572 | 642825 |
| 124.50 | 14.9904 | 652981 |
| 125.00 | 15.1188 | 658573 |
| 125.50 | 15.1188 | 658573 |

Comment: ** PIPE INVERT: 114.63

**SH13-370R, LOCATED CLOSE TO WETLAND SHAPE AND SHGWT EL IS 116.9'.

**SHW1303R SHW 116.4'

** WL-1307-R-1023 SHW 118

**WL-1323-R-1049 SHW

3-27-2025:
updated boring from geotech
PBA13-SMF6-6 117.3

Node: N-106A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 117.25 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 116.43 | 0.0003 | 13 |
| 116.50 | 0.0178 | 775 |
| 117.00 | 0.1547 | 6738 |
| 117.50 | 0.1697 | 7394 |
| 118.00 | 0.1862 | 8112 |
| 118.50 | 0.2105 | 9169 |
| 119.00 | 0.2593 | 11294 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 119.50 | 0.4091 | 17819 |
| 120.00 | 1.1748 | 51175 |
| 120.50 | 2.0245 | 88187 |
| 121.00 | 2.8218 | 122919 |
| 121.50 | 3.4141 | 148719 |
| 122.00 | 4.3182 | 188100 |
| 122.50 | 4.9522 | 215719 |
| 123.00 | 5.3373 | 232494 |
| 123.50 | 5.4807 | 238738 |
| 124.00 | 5.5302 | 240894 |
| 124.50 | 5.5419 | 241406 |
| 125.00 | 5.5437 | 241485 |
| 125.50 | 5.5465 | 241607 |
| 126.00 | 5.5465 | 241607 |

Comment: Point: PBA13-SMF6-5
PBA13-SMF6-4

Node: N-106B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 118.40 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 116.69 | 0.0001 | 6 |
| 117.00 | 0.1672 | 7281 |
| 117.50 | 0.8775 | 38225 |
| 118.00 | 1.2585 | 54819 |
| 118.50 | 1.4137 | 61581 |
| 119.00 | 1.5400 | 67081 |
| 119.50 | 1.7403 | 75806 |
| 120.00 | 2.0620 | 89819 |
| 120.50 | 2.4970 | 108769 |
| 121.00 | 2.9666 | 129225 |
| 121.50 | 3.4942 | 152206 |
| 122.00 | 4.0368 | 175844 |
| 122.50 | 4.4911 | 195631 |
| 123.00 | 4.8405 | 210850 |
| 123.50 | 5.1261 | 223294 |
| 124.00 | 5.4228 | 236219 |
| 124.50 | 5.6764 | 247263 |
| 125.00 | 5.8355 | 254194 |
| 125.50 | 5.9384 | 258675 |
| 126.00 | 5.9589 | 259568 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 126.50 | 5.9589 | 259568 |

Comment: boring PBA-FPC1301B-4

Node: N-107

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 117.83 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 115.62 | 0.0003 | 13 |
| 116.00 | 0.0080 | 350 |
| 116.50 | 0.1267 | 5519 |
| 117.00 | 0.4721 | 20562 |
| 117.50 | 0.9154 | 39875 |
| 118.00 | 1.5190 | 66169 |
| 118.50 | 2.3155 | 100862 |
| 119.00 | 3.2576 | 141900 |
| 119.50 | 4.3246 | 188381 |
| 120.00 | 5.4594 | 237813 |
| 120.50 | 6.6535 | 289825 |
| 121.00 | 7.4304 | 323669 |
| 121.50 | 8.0550 | 350875 |
| 122.00 | 8.7367 | 380569 |
| 122.50 | 9.2668 | 403663 |
| 123.00 | 10.1192 | 440794 |
| 123.50 | 10.6395 | 463456 |
| 124.00 | 10.7247 | 467169 |
| 124.50 | 10.7982 | 470369 |
| 125.00 | 10.8695 | 473475 |
| 125.50 | 10.9108 | 475275 |
| 126.00 | 10.9353 | 476344 |
| 126.50 | 10.9495 | 476959 |
| 127.00 | 10.9495 | 476959 |

Comment: ** PIPE INVERT: 119.04
** SH13-365L
SHGWT: 117.6

EXIST POND 1 SHGWT: 114.5

Update: 3-5-2025
117.9+118+117.7+117.6= 117.8

Boring Avg for below points : 117.83'
PBA-SMF1301C-2
PBA-SMF1301B-6
PBA-SMF1301B-4

## Node: N-107A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 117.68 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 115.05 | 0.0001 | 6 |
| 115.50 | 0.0251 | 1094 |
| 116.00 | 0.0575 | 2506 |
| 116.50 | 0.1455 | 6338 |
| 117.00 | 0.2812 | 12250 |
| 117.50 | 0.5415 | 23587 |
| 118.00 | 0.7956 | 34656 |
| 118.50 | 1.0455 | 45544 |
| 119.00 | 1.2775 | 55650 |
| 119.50 | 1.4816 | 64537 |
| 120.00 | 1.6642 | 72494 |
| 120.50 | 1.8020 | 78494 |
| 121.00 | 1.9452 | 84731 |
| 121.50 | 2.0882 | 90963 |
| 122.00 | 2.1993 | 95800 |
| 122.50 | 2.2357 | 97387 |
| 123.00 | 2.2638 | 98612 |
| 123.50 | 2.2818 | 99394 |
| 124.00 | 2.2965 | 100038 |
| 124.50 | 2.2986 | 100129 |
| 125.00 | 2.2986 | 100129 |

Comment: Close to N-107

## Node: N-107B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 116.74 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 115.41 | 0.0001 | 6 |
| 115.50 | 0.0009 | 40 |
| 116.00 | 0.0179 | 781 |
| 116.50 | 0.1717 | 7481 |
| 117.00 | 0.6742 | 29369 |
| 117.50 | 1.0516 | 45806 |
| 118.00 | 1.3952 | 60775 |
| 118.50 | 1.6549 | 72087 |
| 119.00 | 1.8586 | 80962 |
| 119.50 | 2.0393 | 88831 |
| 120.00 | 2.2093 | 96238 |
| 120.50 | 2.3790 | 103631 |
| 121.00 | 2.4739 | 107763 |
| 121.50 | 2.5409 | 110681 |
| 122.00 | 2.5680 | 111863 |
| 122.50 | 2.5898 | 112813 |
| 123.00 | 2.6139 | 113862 |
| 123.50 | 2.6264 | 114406 |
| 124.00 | 2.6296 | 114545 |
| 124.50 | 2.6296 | 114545 |

Comment: Close to N-107

Node: N-107C

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 117.83 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 115.15 | 0.0001 | 6 |
| 115.50 | 0.0136 | 594 |
| 116.00 | 0.0538 | 2344 |
| 116.50 | 0.2304 | 10037 |
| 117.00 | 0.4655 | 20275 |
| 117.50 | 0.6589 | 28700 |
| 118.00 | 0.8211 | 35769 |
| 118.50 | 0.9962 | 43394 |
| 119.00 | 1.1565 | 50375 |
| 119.50 | 1.3138 | 57231 |
| 120.00 | 1.4723 | 64131 |
| 120.50 | 1.6251 | 70787 |
| 121.00 | 1.7631 | 76800 |
| 121.50 | 1.8872 | 82206 |
| 122.00 | 1.9793 | 86219 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 122.50 | 2.0247 | 88194 |
| 123.00 | 2.0526 | 89413 |
| 123.50 | 2.0790 | 90563 |
| 124.00 | 2.1070 | 91781 |
| 124.50 | 2.1318 | 92863 |
| 125.00 | 2.1522 | 93750 |
| 125.50 | 2.1668 | 94385 |
| 126.00 | 2.1795 | 94937 |
| 126.50 | 2.1875 | 95288 |
| 127.00 | 2.1889 | 95349 |
| 127.50 | 2.1889 | 95349 |

Comment: Close to N-107

Node: N-108

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 114.50 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 112.65 | 0.0003 | 13 |
| 113.00 | 0.0115 | 500 |
| 113.50 | 0.0719 | 3131 |
| 114.00 | 0.1486 | 6475 |
| 114.50 | 0.2220 | 9669 |
| 115.00 | 0.3240 | 14112 |
| 115.50 | 0.4250 | 18513 |
| 116.00 | 0.5279 | 22994 |
| 116.50 | 0.6274 | 27331 |
| 117.00 | 0.7425 | 32344 |
| 117.50 | 0.9270 | 40381 |
| 118.00 | 1.1348 | 49431 |
| 118.50 | 1.3425 | 58481 |
| 119.00 | 1.6010 | 69738 |
| 119.50 | 1.9153 | 83431 |
| 120.00 | 2.1404 | 93237 |
| 120.50 | 2.3208 | 101094 |
| 121.00 | 2.4768 | 107887 |
| 121.50 | 2.6548 | 115644 |
| 122.00 | 2.8327 | 123394 |
| 122.50 | 3.0122 | 131213 |
| 123.00 | 3.1609 | 137687 |
| 123.50 | 3.2755 | 142681 |
| 124.00 | 3.3960 | 147931 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 124.50 | 3.4945 | 152219 |
| 125.00 | 3.5603 | 155087 |
| 125.50 | 3.6118 | 157331 |
| 126.00 | 3.6437 | 158719 |
| 126.50 | 3.6631 | 159563 |
| 127.00 | 3.6796 | 160281 |
| 127.50 | 3.6915 | 160800 |
| 128.00 | 3.6955 | 160976 |
| 128.50 | 3.7006 | 161198 |
| 129.00 | 3.7006 | 161198 |

Comment: **PIPE INVERT 114.02
** WL-1316-L-1056 SHW 114.4

[HTC]
114.5 BASED ON GEOTECH

Node: N-109

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 114.50 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 111.38 | 0.0003 | 13 |
| 111.50 | 0.0083 | 363 |
| 112.00 | 0.4148 | 18069 |
| 112.50 | 0.5896 | 25681 |
| 113.00 | 0.7563 | 32944 |
| 113.50 | 0.8623 | 37562 |
| 114.00 | 1.0434 | 45450 |
| 114.50 | 1.2744 | 55513 |
| 115.00 | 1.5394 | 67056 |
| 115.50 | 1.7991 | 78369 |
| 116.00 | 1.9819 | 86331 |
| 116.50 | 2.2039 | 96000 |
| 117.00 | 2.5514 | 111138 |
| 117.50 | 2.9138 | 126925 |
| 118.00 | 3.1815 | 138587 |
| 118.50 | 3.4299 | 149406 |
| 119.00 | 3.6642 | 159613 |
| 119.50 | 3.8687 | 168519 |
| 120.00 | 4.1215 | 179531 |
| 120.50 | 4.4043 | 191850 |
| 121.00 | 4.6931 | 204431 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 121.50 | 4.9139 | 214050 |
| 122.00 | 5.0739 | 221019 |
| 122.50 | 5.1974 | 226400 |
| 123.00 | 5.2893 | 230400 |
| 123.50 | 5.3524 | 233150 |
| 124.00 | 5.3524 | 233150 |

Comment:
GEOTECH:
SHWL:
SH13-380R LOCATED IN THAT LOCATION EXACTLY AND SHWL EL IS 114.10'.
MEASURED AVG GW EL 112.6'

THE AVG CONTOUR LINE FOR THE SHAPE IS115.1''

1-22:
SH13-380R 114.1. but pipe invert is in 113.68

[HTC]
114.5 BASED ON GEOTECH

Node: N-109A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 110.00 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 111.83 | 0.0001 | 6 |
| 112.00 | 0.0128 | 556 |
| 112.50 | 0.0845 | 3681 |
| 113.00 | 0.1706 | 7431 |
| 113.50 | 0.2431 | 10588 |
| 114.00 | 0.3081 | 13419 |
| 114.50 | 0.3817 | 16625 |
| 115.00 | 0.4824 | 21013 |
| 115.50 | 0.5906 | 25725 |
| 116.00 | 0.7497 | 32656 |
| 116.50 | 0.9197 | 40062 |
| 117.00 | 1.0824 | 47150 |
| 117.50 | 1.2448 | 54225 |
| 118.00 | 1.3757 | 59925 |
| 118.50 | 1.5245 | 66406 |
| 119.00 | 1.6520 | 71963 |
| 119.50 | 1.7505 | 76250 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 120.00 | 1.8027 | 78525 |
| 120.50 | 1.8287 | 79656 |
| 121.00 | 1.8541 | 80763 |
| 121.50 | 1.8769 | 81756 |
| 122.00 | 1.8988 | 82713 |
| 122.50 | 1.9170 | 83506 |
| 123.00 | 1.9300 | 84069 |
| 123.50 | 1.9429 | 84631 |
| 124.00 | 1.9610 | 85422 |
| 124.50 | 1.9610 | 85422 |

Comment: SH13-390R:
SHGWT EL: 110

Node: N-109B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 108.50 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 109.75 | 0.0001 | 6 |
| 110.00 | 0.0027 | 119 |
| 110.50 | 0.0795 | 3462 |
| 111.00 | 0.2118 | 9225 |
| 111.50 | 0.5564 | 24237 |
| 112.00 | 1.1672 | 50844 |
| 112.50 | 1.9397 | 84494 |
| 113.00 | 2.6732 | 116444 |
| 113.50 | 3.3198 | 144612 |
| 114.00 | 3.9202 | 170763 |
| 114.50 | 4.5942 | 200125 |
| 115.00 | 5.2525 | 228800 |
| 115.50 | 5.9309 | 258350 |
| 116.00 | 6.5599 | 285750 |
| 116.50 | 7.1347 | 310787 |
| 117.00 | 7.7410 | 337200 |
| 117.50 | 8.2762 | 360512 |
| 118.00 | 8.7470 | 381019 |
| 118.50 | 9.1644 | 399200 |
| 119.00 | 9.4427 | 411325 |
| 119.50 | 9.6696 | 421206 |
| 120.00 | 9.8732 | 430075 |
| 120.50 | 10.0418 | 437419 |
| 121.00 | 10.1750 | 443225 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 121.50 | 10.3013 | 448725 |
| 122.00 | 10.3676 | 451612 |
| 122.50 | 10.3986 | 452962 |
| 123.00 | 10.4137 | 453619 |
| 123.50 | 10.4190 | 453850 |
| 124.00 | 10.4227 | 454013 |
| 124.50 | 10.4245 | 454093 |
| 125.00 | 10.4253 | 454127 |
| 125.50 | 10.4253 | 454127 |

Comment: PBA-FPC1306A-2 biring data for initial stage

Node: N-109C

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 114.50 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 112.83 | 0.0003 | 13 |
| 113.00 | 0.0172 | 750 |
| 113.50 | 0.6032 | 26275 |
| 114.00 | 1.6081 | 70050 |
| 114.50 | 1.8483 | 80513 |
| 115.00 | 2.1836 | 95119 |
| 115.50 | 2.5630 | 111644 |
| 116.00 | 2.8900 | 125887 |
| 116.50 | 3.2127 | 139944 |
| 117.00 | 3.5481 | 154556 |
| 117.50 | 3.9596 | 172481 |
| 118.00 | 4.3116 | 187813 |
| 118.50 | 4.6767 | 203719 |
| 119.00 | 5.0805 | 221306 |
| 119.50 | 5.5445 | 241519 |
| 120.00 | 5.9836 | 260644 |
| 120.50 | 6.4104 | 279238 |
| 121.00 | 6.7754 | 295138 |
| 121.50 | 7.1476 | 311350 |
| 122.00 | 7.5343 | 328194 |
| 122.50 | 7.8917 | 343762 |
| 123.00 | 8.1946 | 356956 |
| 123.50 | 8.4751 | 369175 |
| 124.00 | 8.7130 | 379537 |
| 124.50 | 8.8578 | 385844 |
| 125.00 | 8.9668 | 390594 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 125.50 | 9.0588 | 394600 |
| 126.00 | 9.1164 | 397113 |
| 126.50 | 9.1429 | 398263 |
| 127.00 | 9.1429 | 398263 |

Comment:

## Node: N-109D

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 115.60 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 115.73 | 0.0001 | 6 |
| 116.00 | 0.0321 | 1400 |
| 116.50 | 0.1458 | 6350 |
| 117.00 | 0.1686 | 7344 |
| 117.50 | 0.1852 | 8069 |
| 118.00 | 0.2042 | 8894 |
| 118.50 | 0.2220 | 9669 |
| 119.00 | 0.2479 | 10800 |
| 119.50 | 0.2878 | 12537 |
| 120.00 | 0.3359 | 14631 |
| 120.50 | 0.3907 | 17019 |
| 121.00 | 0.4894 | 21319 |
| 121.50 | 0.5910 | 25744 |
| 122.00 | 0.7359 | 32056 |
| 122.50 | 0.8955 | 39006 |
| 123.00 | 1.0688 | 46556 |
| 123.50 | 1.1407 | 49687 |
| 124.00 | 1.1699 | 50962 |
| 124.50 | 1.1970 | 52142 |
| 125.00 | 1.1970 | 52142 |

Comment:

## Node: N-110

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 112.60 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 110.62 | 0.0001 | 6 |
| 111.00 | 0.0077 | 338 |
| 111.50 | 0.0320 | 1394 |
| 112.00 | 0.0847 | 3687 |
| 112.50 | 0.1867 | 8131 |
| 113.00 | 0.3099 | 13500 |
| 113.50 | 0.4567 | 19894 |
| 114.00 | 0.6325 | 27550 |
| 114.50 | 0.8293 | 36125 |
| 115.00 | 1.0325 | 44975 |
| 115.50 | 1.2672 | 55200 |
| 116.00 | 1.5414 | 67144 |
| 116.50 | 1.9934 | 86831 |
| 117.00 | 2.5755 | 112188 |
| 117.50 | 3.2177 | 140162 |
| 118.00 | 3.8149 | 166175 |
| 118.50 | 4.3503 | 189500 |
| 119.00 | 4.7872 | 208531 |
| 119.50 | 5.1778 | 225544 |
| 120.00 | 5.4568 | 237700 |
| 120.50 | 5.6920 | 247944 |
| 121.00 | 5.8587 | 255206 |
| 121.50 | 5.9471 | 259056 |
| 122.00 | 6.0220 | 262319 |
| 122.50 | 6.0757 | 264656 |
| 123.00 | 6.1329 | 267150 |
| 123.50 | 6.2001 | 270075 |
| 124.00 | 6.2718 | 273200 |
| 124.50 | 6.3526 | 276719 |
| 125.00 | 6.4015 | 278850 |
| 125.50 | 6.4440 | 280700 |
| 126.00 | 6.4768 | 282131 |
| 126.50 | 6.5022 | 283237 |
| 127.00 | 6.5072 | 283453 |
| 127.50 | 6.5072 | 283453 |

Comment: **WL-1323-R-1049 SHW112 (OPPOSITE)
**SH13-385R SHGWT 112.6 (OPPOSITE)

Node: N-111

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 110.00 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 110.94 | 0.0001 | 6 |
| 111.00 | 0.0002 | 10 |
| 111.50 | 0.0280 | 1219 |
| 112.00 | 0.0963 | 4194 |
| 112.50 | 0.1596 | 6950 |
| 113.00 | 0.2251 | 9806 |
| 113.50 | 0.2957 | 12881 |
| 114.00 | 0.3792 | 16519 |
| 114.50 | 0.5096 | 22200 |
| 115.00 | 0.6635 | 28900 |
| 115.50 | 0.8187 | 35662 |
| 116.00 | 1.0638 | 46338 |
| 116.50 | 1.3615 | 59306 |
| 117.00 | 1.6213 | 70625 |
| 117.50 | 1.8526 | 80700 |
| 118.00 | 2.0463 | 89137 |
| 118.50 | 2.2308 | 97175 |
| 119.00 | 2.4136 | 105138 |
| 119.50 | 2.5511 | 111125 |
| 120.00 | 2.6649 | 116081 |
| 120.50 | 2.7443 | 119544 |
| 121.00 | 2.8144 | 122594 |
| 121.50 | 2.8926 | 126000 |
| 122.00 | 2.9584 | 128869 |
| 122.50 | 3.0161 | 131381 |
| 123.00 | 3.0715 | 133794 |
| 123.50 | 3.1188 | 135856 |
| 124.00 | 3.1576 | 137544 |
| 124.50 | 3.1878 | 138862 |
| 125.00 | 3.2065 | 139675 |
| 125.50 | 3.2118 | 139907 |
| 126.00 | 3.2118 | 139907 |
| 110.00 | 0.0000 | 0 |

Comment: **SH13-390R
SHGWT: 110' (OPPOSITE)

**FROM LIDAR:
DEPRESSION LOOKS @ 111

Node: N-112

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 102.10 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 103.41 | 0.0003 | 13 |
| 103.50 | 0.0011 | 46 |
| 104.00 | 0.0362 | 1575 |
| 104.50 | 0.0907 | 3950 |
| 105.00 | 0.1630 | 7100 |
| 105.50 | 0.2791 | 12156 |
| 106.00 | 0.4027 | 17544 |
| 106.50 | 0.4980 | 21694 |
| 107.00 | 0.5761 | 25094 |
| 107.50 | 0.6497 | 28300 |
| 108.00 | 0.7612 | 33156 |
| 108.50 | 0.9184 | 40006 |
| 109.00 | 1.0731 | 46744 |
| 109.50 | 1.2369 | 53881 |
| 110.00 | 1.4704 | 64050 |
| 110.50 | 1.7635 | 76819 |
| 111.00 | 2.0994 | 91450 |
| 111.50 | 2.4307 | 105881 |
| 112.00 | 2.8072 | 122281 |
| 112.50 | 3.1942 | 139137 |
| 113.00 | 3.5785 | 155881 |
| 113.50 | 3.9855 | 173606 |
| 114.00 | 4.6488 | 202500 |
| 114.50 | 5.1461 | 224163 |
| 115.00 | 5.5343 | 241075 |
| 115.50 | 5.8762 | 255969 |
| 116.00 | 6.2014 | 270131 |
| 116.50 | 6.4002 | 278794 |
| 117.00 | 6.5368 | 284744 |
| 117.50 | 6.6715 | 290613 |
| 118.00 | 6.8254 | 297313 |
| 118.50 | 6.9470 | 302612 |
| 119.00 | 7.0579 | 307444 |
| 119.50 | 7.0710 | 308014 |
| 120.00 | 7.0710 | 308014 |

Comment: *PIPE INVERT: 108.48

**SH13-395R JUST OPPOSITE SITE AND SHGWT IS 107.2.

**THE AVG CONTOUR LINE FOR THE SHAPE IS 106.5'

Update: 3-5-2025:
102.6+101+101.4+101.1+104.4=

Node: N-113

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 107.20 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 108.47 | 0.0001 | 6 |
| 108.50 | 0.0002 | 8 |
| 109.00 | 0.0008 | 35 |
| 109.50 | 0.0105 | 456 |
| 110.00 | 0.1987 | 8656 |
| 110.50 | 0.4940 | 21519 |
| 111.00 | 0.8947 | 38975 |
| 111.50 | 1.1841 | 51581 |
| 112.00 | 1.4480 | 63075 |
| 112.50 | 1.6626 | 72425 |
| 113.00 | 1.8790 | 81850 |
| 113.50 | 2.1166 | 92200 |
| 114.00 | 2.4436 | 106444 |
| 114.50 | 2.8326 | 123387 |
| 115.00 | 3.1306 | 136369 |
| 115.50 | 3.3803 | 147244 |
| 116.00 | 3.5718 | 155588 |
| 116.50 | 3.7156 | 161850 |
| 117.00 | 3.8354 | 167069 |
| 117.50 | 3.9625 | 172606 |
| 118.00 | 4.1417 | 180412 |
| 118.50 | 4.2667 | 185856 |
| 119.00 | 4.3459 | 189306 |
| 119.50 | 4.4155 | 192337 |
| 120.00 | 4.4776 | 195044 |
| 120.50 | 4.5381 | 197681 |
| 121.00 | 4.5970 | 200244 |
| 121.50 | 4.6729 | 203550 |
| 122.00 | 4.7749 | 207994 |
| 122.50 | 4.7912 | 208703 |
| 123.00 | 4.7912 | 208703 |
| 107.20 | 0.0000 | 0 |

Comment: **PIPE INVERT: 108.39

** SH13-395R SHGWT EL. 107.2

Node: N-114

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 91.40 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 101.41 | 0.0001 | 6 |
| 101.50 | 0.0003 | 14 |
| 102.00 | 0.0264 | 1150 |
| 102.50 | 0.1013 | 4412 |
| 103.00 | 0.1709 | 7444 |
| 103.50 | 0.2399 | 10450 |
| 104.00 | 0.3042 | 13250 |
| 104.50 | 0.3723 | 16219 |
| 105.00 | 0.4416 | 19237 |
| 105.50 | 0.5201 | 22656 |
| 106.00 | 0.6039 | 26306 |
| 106.50 | 0.7022 | 30587 |
| 107.00 | 0.9084 | 39569 |
| 107.50 | 1.1325 | 49331 |
| 108.00 | 1.3801 | 60119 |
| 108.50 | 1.5998 | 69688 |
| 109.00 | 1.8681 | 81375 |
| 109.50 | 2.1017 | 91550 |
| 110.00 | 2.3247 | 101262 |
| 110.50 | 2.5461 | 110906 |
| 111.00 | 2.8020 | 122056 |
| 111.50 | 3.0898 | 134594 |
| 112.00 | 3.3540 | 146100 |
| 112.50 | 3.6392 | 158525 |
| 113.00 | 3.9503 | 172075 |
| 113.50 | 4.2594 | 185538 |
| 114.00 | 4.8178 | 209862 |
| 114.50 | 5.1791 | 225600 |
| 115.00 | 5.4180 | 236006 |
| 115.50 | 5.6858 | 247675 |
| 116.00 | 5.9313 | 258369 |
| 116.50 | 6.1566 | 268181 |
| 117.00 | 6.3721 | 277569 |
| 117.50 | 6.5515 | 285381 |
| 118.00 | 6.6974 | 291737 |
| 118.50 | 6.7967 | 296064 |
| 119.00 | 6.7967 | 296064 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 93.50 | 0.0001 | 6 |

Comment: 91.4

Node: N-115

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 91.70 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 92.62 | 0.0004 | 19 |
| 93.00 | 0.0228 | 994 |
| 93.50 | 0.0736 | 3206 |
| 94.00 | 0.1243 | 5413 |
| 94.50 | 0.1795 | 7819 |
| 95.00 | 0.2405 | 10475 |
| 95.50 | 0.3017 | 13144 |
| 96.00 | 0.3643 | 15869 |
| 96.50 | 0.4607 | 20069 |
| 97.00 | 0.5685 | 24763 |
| 97.50 | 0.6751 | 29406 |
| 98.00 | 0.7850 | 34194 |
| 98.50 | 0.9011 | 39250 |
| 99.00 | 1.0154 | 44231 |
| 99.50 | 1.1486 | 50031 |
| 100.00 | 1.3057 | 56875 |
| 100.50 | 1.4748 | 64244 |
| 101.00 | 1.7208 | 74956 |
| 101.50 | 1.9985 | 87056 |
| 102.00 | 2.3643 | 102988 |
| 102.50 | 2.8609 | 124619 |
| 103.00 | 3.3639 | 146531 |
| 103.50 | 3.8103 | 165975 |
| 104.00 | 4.2836 | 186594 |
| 104.50 | 4.7865 | 208500 |
| 105.00 | 5.2251 | 227606 |
| 105.50 | 5.7841 | 251956 |
| 106.00 | 6.2648 | 272894 |
| 106.50 | 6.7348 | 293369 |
| 107.00 | 7.1851 | 312981 |
| 107.50 | 7.6222 | 332025 |
| 108.00 | 8.0764 | 351806 |
| 108.50 | 8.5533 | 372581 |
| 109.00 | 9.0365 | 393631 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 109.50 | 9.4995 | 413800 |
| 110.00 | 9.9552 | 433650 |
| 110.50 | 10.4283 | 454256 |
| 111.00 | 10.9831 | 478425 |
| 111.50 | 11.5614 | 503612 |
| 112.00 | 12.1634 | 529837 |
| 112.50 | 12.7049 | 553425 |
| 113.00 | 13.1421 | 572469 |
| 113.50 | 13.5506 | 590262 |
| 114.00 | 14.0278 | 611050 |
| 114.50 | 14.6067 | 636269 |
| 115.00 | 14.9852 | 652756 |
| 115.50 | 15.3726 | 669631 |
| 116.00 | 15.7794 | 687350 |
| 116.50 | 16.1586 | 703869 |
| 117.00 | 16.5608 | 721387 |
| 117.50 | 16.8462 | 733819 |
| 118.00 | 17.0439 | 742431 |
| 118.50 | 17.2103 | 749681 |
| 119.00 | 17.3417 | 755406 |
| 119.50 | 17.4136 | 758538 |
| 120.00 | 17.4621 | 760650 |
| 120.50 | 17.5103 | 762750 |
| 121.00 | 17.5491 | 764437 |
| 121.50 | 17.5776 | 765681 |
| 122.00 | 17.5990 | 766612 |
| 122.50 | 17.6221 | 767619 |
| 123.00 | 17.6442 | 768581 |
| 123.50 | 17.6565 | 769119 |
| 124.00 | 17.6616 | 769338 |
| 124.50 | 17.6629 | 769398 |
| 125.00 | 17.6649 | 769484 |
| 125.50 | 17.6649 | 769484 |

Comment: **SH13-415R SHGWT EL. 92.7

**MINIMUM CONTOUR 93
** DEPRESSION STARTS @ 96.5

90.7+92.7=91.7

Node: N-115A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 94.45 ft

Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 101.31 | 0.0001 | 6 |
| 101.50 | 0.0053 | 231 |
| 102.00 | 0.0628 | 2737 |
| 102.50 | 0.1198 | 5219 |
| 103.00 | 0.1765 | 7688 |
| 103.50 | 0.2347 | 10225 |
| 104.00 | 0.2894 | 12606 |
| 104.50 | 0.3541 | 15425 |
| 105.00 | 0.4296 | 18713 |
| 105.50 | 0.5115 | 22281 |
| 106.00 | 0.5850 | 25481 |
| 106.50 | 0.6626 | 28863 |
| 107.00 | 0.7401 | 32237 |
| 107.50 | 0.8231 | 35856 |
| 108.00 | 0.9111 | 39688 |
| 108.50 | 1.0120 | 44081 |
| 109.00 | 1.1104 | 48369 |
| 109.50 | 1.2105 | 52731 |
| 110.00 | 1.3126 | 57175 |
| 110.50 | 1.4407 | 62756 |
| 111.00 | 1.7005 | 74075 |
| 111.50 | 1.9341 | 84250 |
| 112.00 | 2.1511 | 93700 |
| 112.50 | 2.4057 | 104794 |
| 113.00 | 2.6337 | 114725 |
| 113.50 | 2.8306 | 123300 |
| 114.00 | 3.1092 | 135437 |
| 114.50 | 3.5952 | 156606 |
| 115.00 | 3.7427 | 163031 |
| 115.50 | 3.8603 | 168156 |
| 116.00 | 4.0022 | 174337 |
| 116.50 | 4.1781 | 182000 |
| 117.00 | 4.3826 | 190906 |
| 117.50 | 4.5473 | 198081 |
| 118.00 | 4.6703 | 203437 |
| 118.50 | 4.7400 | 206475 |
| 119.00 | 4.8128 | 209644 |
| 119.50 | 4.8660 | 211962 |
| 120.00 | 4.8760 | 212400 |
| 120.50 | 4.8874 | 212894 |
| 121.00 | 4.8946 | 213210 |
| 121.50 | 4.9027 | 213562 |
| 122.00 | 4.9048 | 213651 |
| 122.50 | 4.9048 | 213651 |
| 93.60 | 0.0001 | 4 |

Comment: **SH13-410R SHGWT EL. 93.6

95.3+93.6=94.45

Node: N-116

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 96.21 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 97.52 | 0.0001 | 6 |
| 98.00 | 0.0066 | 287 |
| 98.50 | 0.0291 | 1269 |
| 99.00 | 0.0595 | 2594 |
| 99.50 | 0.0931 | 4056 |
| 100.00 | 0.1395 | 6075 |
| 100.50 | 0.1990 | 8669 |
| 101.00 | 0.2578 | 11231 |
| 101.50 | 0.3336 | 14531 |
| 102.00 | 0.4402 | 19175 |
| 102.50 | 0.5604 | 24413 |
| 103.00 | 0.7264 | 31644 |
| 103.50 | 0.9650 | 42037 |
| 104.00 | 1.3004 | 56644 |
| 104.50 | 1.7308 | 75394 |
| 105.00 | 2.2004 | 95850 |
| 105.50 | 2.5904 | 112838 |
| 106.00 | 2.9906 | 130269 |
| 106.50 | 3.3356 | 145300 |
| 107.00 | 3.6750 | 160081 |
| 107.50 | 4.0226 | 175225 |
| 108.00 | 4.3774 | 190681 |
| 108.50 | 4.6419 | 202200 |
| 109.00 | 4.8887 | 212950 |
| 109.50 | 5.1078 | 222494 |
| 110.00 | 5.3145 | 231500 |
| 110.50 | 5.5178 | 240356 |
| 111.00 | 5.7378 | 249937 |
| 111.50 | 6.0041 | 261538 |
| 112.00 | 6.2857 | 273806 |
| 112.50 | 6.5982 | 287419 |
| 113.00 | 6.8816 | 299762 |
| 113.50 | 7.1463 | 311294 |
| 114.00 | 7.3881 | 321825 |
| 114.50 | 7.6728 | 334225 |
| 115.00 | 7.9323 | 345531 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 115.50 | 8.1735 | 356037 |
| 116.00 | 8.3256 | 362662 |
| 116.50 | 8.3972 | 365781 |
| 117.00 | 8.4339 | 367381 |
| 117.50 | 8.4784 | 369319 |
| 118.00 | 8.5016 | 370331 |
| 118.50 | 8.5161 | 370962 |
| 119.00 | 8.5296 | 371550 |
| 119.50 | 8.5299 | 371563 |
| 120.00 | 8.5299 | 371563 |

Comment: **PIPE INVERT 96.21

Node: N-117

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 84.43 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 91.94 | 0.0003 | 13 |
| 92.00 | 0.0016 | 69 |
| 92.50 | 0.0472 | 2056 |
| 93.00 | 0.1006 | 4381 |
| 93.50 | 0.1532 | 6675 |
| 94.00 | 0.2174 | 9469 |
| 94.50 | 0.2930 | 12763 |
| 95.00 | 0.3957 | 17238 |
| 95.50 | 0.5620 | 24481 |
| 96.00 | 0.7504 | 32688 |
| 96.50 | 0.9319 | 40594 |
| 97.00 | 1.1197 | 48775 |
| 97.50 | 1.3021 | 56719 |
| 98.00 | 1.5040 | 65512 |
| 98.50 | 1.7262 | 75194 |
| 99.00 | 1.9444 | 84700 |
| 99.50 | 2.1684 | 94456 |
| 100.00 | 2.4079 | 104888 |
| 100.50 | 2.6577 | 115769 |
| 101.00 | 2.9266 | 127481 |
| 101.50 | 3.2042 | 139575 |
| 102.00 | 3.4695 | 151131 |
| 102.50 | 3.7586 | 163725 |
| 103.00 | 4.0394 | 175956 |
| 103.50 | 4.3285 | 188550 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 104.00 | 4.6469 | 202419 |
| 104.50 | 4.9468 | 215481 |
| 105.00 | 5.2372 | 228131 |
| 105.50 | 5.5079 | 239925 |
| 106.00 | 5.7597 | 250894 |
| 106.50 | 6.0012 | 261412 |
| 107.00 | 6.2411 | 271862 |
| 107.50 | 6.4870 | 282575 |
| 108.00 | 6.7134 | 292437 |
| 108.50 | 6.9218 | 301513 |
| 109.00 | 7.1225 | 310256 |
| 109.50 | 7.3330 | 319425 |
| 110.00 | 7.5380 | 328356 |
| 110.50 | 7.7587 | 337969 |
| 111.00 | 8.0052 | 348706 |
| 111.50 | 8.2175 | 357956 |
| 112.00 | 8.4157 | 366587 |
| 112.50 | 8.6147 | 375256 |
| 113.00 | 8.8087 | 383706 |
| 113.50 | 8.9896 | 391587 |
| 114.00 | 9.1562 | 398844 |
| 114.50 | 9.3024 | 405213 |
| 115.00 | 9.4518 | 411719 |
| 115.50 | 9.6060 | 418437 |
| 116.00 | 9.7722 | 425675 |
| 116.50 | 9.9250 | 432331 |
| 117.00 | 10.0706 | 438675 |
| 117.50 | 10.2161 | 445012 |
| 118.00 | 10.3586 | 451219 |
| 118.50 | 10.4976 | 457275 |
| 119.00 | 10.6270 | 462913 |
| 119.50 | 10.7369 | 467700 |
| 120.00 | 10.8392 | 472156 |
| 120.50 | 10.9137 | 475400 |
| 121.00 | 10.9646 | 477619 |
| 121.50 | 11.0018 | 479237 |
| 122.00 | 11.0392 | 480869 |
| 122.50 | 11.0688 | 482156 |
| 123.00 | 11.0760 | 482469 |
| 123.50 | 11.0863 | 482918 |
| 124.00 | 11.0863 | 482918 |

Comment: **SH13-425R WITHIN THE BASIN AND SHGWT EL 84.2

**PIPE INVERT 96.15

86.7+83.5+83.1=

Node: N-118

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 46.20 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 59.00 | 3.0032 | 130819 |
| 59.50 | 3.0270 | 131856 |
| 60.00 | 3.0518 | 132937 |
| 60.50 | 3.0718 | 133806 |
| 61.00 | 3.0921 | 134694 |
| 61.50 | 3.1104 | 135487 |
| 62.00 | 3.1253 | 136138 |
| 62.50 | 3.1414 | 136838 |
| 63.00 | 3.1540 | 137387 |
| 63.50 | 3.1678 | 137987 |
| 64.00 | 3.1866 | 138806 |
| 64.50 | 3.2085 | 139763 |
| 65.00 | 3.2297 | 140688 |
| 65.50 | 3.2540 | 141744 |
| 66.00 | 3.2857 | 143125 |
| 66.50 | 3.3221 | 144713 |
| 67.00 | 3.3596 | 146344 |
| 67.50 | 3.4074 | 148425 |
| 68.00 | 3.4428 | 149969 |
| 68.50 | 3.4813 | 151644 |
| 69.00 | 3.5094 | 152869 |
| 69.50 | 3.5382 | 154125 |
| 70.00 | 3.5649 | 155287 |
| 70.50 | 3.5986 | 156756 |
| 71.00 | 3.6306 | 158150 |
| 71.50 | 3.6669 | 159731 |
| 72.00 | 3.7061 | 161437 |
| 72.50 | 3.7441 | 163094 |
| 73.00 | 3.7869 | 164956 |
| 73.50 | 3.8295 | 166812 |
| 74.00 | 3.8652 | 168369 |
| 74.50 | 3.9008 | 169919 |
| 75.00 | 3.9370 | 171494 |
| 75.50 | 3.9771 | 173244 |
| 76.00 | 4.0271 | 175419 |
| 76.50 | 4.0767 | 177581 |
| 77.00 | 4.1235 | 179619 |
| 77.50 | 4.1744 | 181838 |
| 78.00 | 4.2480 | 185044 |
| 78.50 | 4.3179 | 188088 |
| 79.00 | 4.3855 | 191031 |
| 79.50 | 4.4607 | 194306 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 80.00 | 4.5274 | 197212 |
| 80.50 | 4.5932 | 200081 |
| 81.00 | 4.6693 | 203394 |
| 81.50 | 4.7620 | 207431 |
| 82.00 | 4.8442 | 211012 |
| 82.50 | 4.9103 | 213894 |
| 83.00 | 4.9729 | 216619 |
| 83.50 | 5.0340 | 219281 |
| 84.00 | 5.0902 | 221731 |
| 84.50 | 5.1451 | 224119 |
| 85.00 | 5.2006 | 226537 |
| 85.50 | 5.2575 | 229019 |
| 86.00 | 5.3244 | 231931 |
| 86.50 | 5.3887 | 234731 |
| 87.00 | 5.4581 | 237756 |
| 87.50 | 5.5330 | 241019 |
| 88.00 | 5.6280 | 245156 |
| 88.50 | 5.7455 | 250275 |
| 89.00 | 5.8658 | 255513 |
| 89.50 | 5.9725 | 260162 |
| 90.00 | 6.0795 | 264825 |
| 90.50 | 6.2273 | 271262 |
| 91.00 | 6.3534 | 276756 |
| 91.50 | 6.5120 | 283663 |
| 92.00 | 6.6984 | 291781 |
| 92.50 | 6.8733 | 299400 |
| 93.00 | 7.0631 | 307669 |
| 93.50 | 7.2502 | 315819 |
| 94.00 | 7.4605 | 324981 |
| 94.50 | 7.7030 | 335544 |
| 95.00 | 8.0013 | 348537 |
| 95.50 | 8.3356 | 363100 |
| 96.00 | 8.7602 | 381594 |
| 96.50 | 9.0562 | 394488 |
| 97.00 | 9.3434 | 407000 |
| 97.50 | 9.6551 | 420575 |
| 98.00 | 9.9287 | 432494 |
| 98.50 | 10.2037 | 444475 |
| 99.00 | 10.5081 | 457731 |
| 99.50 | 10.7742 | 469325 |
| 100.00 | 11.0171 | 479906 |
| 100.50 | 11.2476 | 489944 |
| 101.00 | 11.4220 | 497544 |
| 101.50 | 11.5657 | 503800 |
| 102.00 | 11.6992 | 509619 |
| 102.50 | 11.8077 | 514344 |
| 103.00 | 11.9057 | 518613 |
| 103.50 | 12.0017 | 522794 |
| 104.00 | 12.1041 | 527256 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 104.50 | 12.2400 | 533175 |
| 105.00 | 12.3275 | 536988 |
| 105.50 | 12.3842 | 539456 |
| 106.00 | 12.4090 | 540538 |
| 106.50 | 12.4359 | 541706 |
| 107.00 | 12.4618 | 542837 |
| 107.50 | 12.4875 | 543956 |
| 108.00 | 12.5102 | 544944 |
| 108.50 | 12.5346 | 546006 |
| 109.00 | 12.5636 | 547271 |
| 109.50 | 12.5875 | 548313 |
| 110.00 | 12.6040 | 549031 |
| 110.50 | 12.6184 | 549656 |
| 111.00 | 12.6317 | 550235 |
| 111.50 | 12.6317 | 550235 |
| 58.50 | 2.9788 | 129756 |

Comment: SH13-450 L
Avg Exst Contour= 59'
**SHW: 46.2'
GW: 44.3
GW DEPTH: 1.9'

**PIPE INVERT: 42.06'

** Final Change on 4-15-2025 from 72 to 46.2

Node: N-119

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 77.20 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 74.93 | 0.0003 | 13 |
| 75.00 | 0.0017 | 75 |
| 75.50 | 0.0564 | 2456 |
| 76.00 | 0.1670 | 7275 |
| 76.50 | 0.2745 | 11956 |
| 77.00 | 0.4046 | 17625 |
| 77.50 | 0.5434 | 23669 |
| 78.00 | 0.6649 | 28963 |
| 78.50 | 0.7732 | 33681 |
| 79.00 | 0.8778 | 38237 |
| 79.50 | 0.9701 | 42256 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 80.00 | 1.0734 | 46756 |
| 80.50 | 1.2021 | 52363 |
| 81.00 | 1.3279 | 57844 |
| 81.50 | 1.4757 | 64281 |
| 82.00 | 1.6671 | 72619 |
| 82.50 | 1.8635 | 81175 |
| 83.00 | 1.9796 | 86231 |
| 83.50 | 2.0790 | 90563 |
| 84.00 | 2.1800 | 94962 |
| 84.50 | 2.2858 | 99569 |
| 85.00 | 2.3874 | 103994 |
| 85.50 | 2.5176 | 109669 |
| 86.00 | 2.6819 | 116825 |
| 86.50 | 2.9477 | 128400 |
| 87.00 | 3.1907 | 138988 |
| 87.50 | 3.4817 | 151663 |
| 88.00 | 3.6118 | 157331 |
| 88.50 | 3.6946 | 160938 |
| 89.00 | 3.7780 | 164569 |
| 89.50 | 3.8665 | 168425 |
| 90.00 | 3.9573 | 172381 |
| 90.50 | 4.0565 | 176700 |
| 91.00 | 4.1626 | 181325 |
| 91.50 | 4.2858 | 186687 |
| 92.00 | 4.4426 | 193519 |
| 92.50 | 4.5836 | 199662 |
| 93.00 | 4.6841 | 204037 |
| 93.50 | 4.7813 | 208275 |
| 94.00 | 4.8732 | 212275 |
| 94.50 | 4.9511 | 215669 |
| 95.00 | 5.0300 | 219106 |
| 95.50 | 5.1070 | 222462 |
| 96.00 | 5.1914 | 226138 |
| 96.50 | 5.2862 | 230269 |
| 97.00 | 5.4421 | 237056 |
| 97.50 | 5.6193 | 244775 |
| 98.00 | 5.7233 | 249306 |
| 98.50 | 5.8272 | 253831 |
| 99.00 | 5.9303 | 258325 |
| 99.50 | 6.0210 | 262275 |
| 100.00 | 6.1065 | 266000 |
| 100.50 | 6.1860 | 269463 |
| 101.00 | 6.2603 | 272700 |
| 101.50 | 6.3243 | 275488 |
| 102.00 | 6.3850 | 278131 |
| 102.50 | 6.4440 | 280700 |
| 103.00 | 6.5100 | 283575 |
| 103.50 | 6.5746 | 286387 |
| 104.00 | 6.6337 | 288962 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 104.50 | 6.6977 | 291750 |
| 105.00 | 6.7672 | 294781 |
| 105.50 | 6.8476 | 298281 |
| 106.00 | 6.9472 | 302619 |
| 106.50 | 7.0595 | 307513 |
| 107.00 | 7.1653 | 312119 |
| 107.50 | 7.2554 | 316044 |
| 108.00 | 7.3347 | 319500 |
| 108.50 | 7.4062 | 322613 |
| 109.00 | 7.4792 | 325794 |
| 109.50 | 7.5518 | 328956 |
| 110.00 | 7.6171 | 331800 |
| 110.50 | 7.6861 | 334806 |
| 111.00 | 7.7532 | 337731 |
| 111.50 | 7.8248 | 340850 |
| 112.00 | 7.9002 | 344131 |
| 112.50 | 7.9643 | 346925 |
| 113.00 | 8.0333 | 349931 |
| 113.50 | 8.1026 | 352950 |
| 114.00 | 8.1838 | 356488 |
| 114.50 | 8.2973 | 361431 |
| 115.00 | 8.4023 | 366006 |
| 115.50 | 8.4919 | 369906 |
| 116.00 | 8.5768 | 373606 |
| 116.50 | 8.6616 | 377300 |
| 117.00 | 8.7137 | 379568 |
| 117.50 | 8.7137 | 379568 |

Comment: SHWL: 75.5
SH13 435R

GW: 73.5
Avg Contour EXST EL: 76.75

75.5+78.9+

Node: N-120

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 45.70 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 49.00 | 0.4380 | 19081 |
| 49.50 | 0.6412 | 27931 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 50.00 | 0.8444 | 36781 |
| 50.50 | 1.0714 | 46669 |
| 51.00 | 1.2992 | 56594 |
| 51.50 | 1.5718 | 68469 |
| 52.00 | 1.7635 | 76819 |
| 52.50 | 1.8921 | 82419 |
| 53.00 | 2.0387 | 88806 |
| 53.50 | 2.1641 | 94269 |
| 54.00 | 2.2813 | 99375 |
| 54.50 | 2.3735 | 103387 |
| 55.00 | 2.4511 | 106769 |
| 55.50 | 2.5235 | 109925 |
| 56.00 | 2.5814 | 112444 |
| 56.50 | 2.6301 | 114569 |
| 57.00 | 2.6762 | 116575 |
| 57.50 | 2.7392 | 119319 |
| 58.00 | 2.7864 | 121375 |
| 58.50 | 2.8293 | 123244 |
| 59.00 | 2.8606 | 124606 |
| 59.50 | 2.8834 | 125600 |
| 60.00 | 2.9045 | 126519 |
| 60.50 | 2.9224 | 127300 |
| 61.00 | 2.9415 | 128131 |
| 61.50 | 2.9584 | 128869 |
| 62.00 | 2.9792 | 129775 |
| 62.50 | 2.9934 | 130394 |
| 63.00 | 3.0106 | 131144 |
| 63.50 | 3.0254 | 131788 |
| 64.00 | 3.0424 | 132525 |
| 64.50 | 3.0606 | 133319 |
| 65.00 | 3.0804 | 134181 |
| 65.50 | 3.0977 | 134938 |
| 66.00 | 3.1157 | 135719 |
| 66.50 | 3.1449 | 136994 |
| 67.00 | 3.1699 | 138081 |
| 67.50 | 3.1874 | 138844 |
| 68.00 | 3.2088 | 139775 |
| 68.50 | 3.2319 | 140781 |
| 69.00 | 3.2524 | 141675 |
| 69.50 | 3.2757 | 142687 |
| 70.00 | 3.3052 | 143975 |
| 70.50 | 3.3402 | 145500 |
| 71.00 | 3.3791 | 147194 |
| 71.50 | 3.4150 | 148756 |
| 72.00 | 3.4662 | 150987 |
| 72.50 | 3.5833 | 156088 |
| 73.00 | 3.8900 | 169450 |
| 73.50 | 4.0044 | 174431 |
| 74.00 | 4.0784 | 177656 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 74.50 | 4.1286 | 179844 |
| 75.00 | 4.1849 | 182294 |
| 75.50 | 4.5502 | 198206 |
| 76.00 | 4.8072 | 209400 |
| 76.50 | 4.9687 | 216437 |
| 77.00 | 5.0852 | 221512 |
| 77.50 | 5.1825 | 225750 |
| 78.00 | 5.2881 | 230350 |
| 78.50 | 5.3897 | 234775 |
| 79.00 | 5.4914 | 239206 |
| 79.50 | 5.6323 | 245344 |
| 80.00 | 5.7269 | 249463 |
| 80.50 | 5.8158 | 253338 |
| 81.00 | 5.8983 | 256931 |
| 81.50 | 5.9810 | 260531 |
| 82.00 | 6.0684 | 264338 |
| 82.50 | 6.1577 | 268231 |
| 83.00 | 6.2560 | 272512 |
| 83.50 | 6.4116 | 279288 |
| 84.00 | 6.6040 | 287669 |
| 84.50 | 6.8041 | 296388 |
| 85.00 | 6.9763 | 303887 |
| 85.50 | 7.2073 | 313950 |
| 86.00 | 7.5050 | 326919 |
| 86.50 | 7.7451 | 337375 |
| 87.00 | 7.9125 | 344669 |
| 87.50 | 8.0690 | 351488 |
| 88.00 | 8.1597 | 355437 |
| 88.50 | 8.2190 | 358019 |
| 89.00 | 8.2691 | 360200 |
| 89.50 | 8.3145 | 362181 |
| 90.00 | 8.3589 | 364113 |
| 90.50 | 8.3965 | 365750 |
| 91.00 | 8.4338 | 367375 |
| 91.50 | 8.4695 | 368931 |
| 92.00 | 8.5081 | 370612 |
| 92.50 | 8.5484 | 372369 |
| 93.00 | 8.5833 | 373888 |
| 93.50 | 8.6170 | 375356 |
| 94.00 | 8.6653 | 377463 |
| 94.50 | 8.6995 | 378950 |
| 95.00 | 8.7247 | 380050 |
| 95.50 | 8.7524 | 381256 |
| 96.00 | 8.7823 | 382556 |
| 96.50 | 8.8308 | 384669 |
| 97.00 | 8.8350 | 384854 |
| 97.50 | 8.8350 | 384854 |

Comment: SH13-445R

**SHW: <49
EXST CONTOUR: 47.25
GW:47.7
DEPTH OF GW: 1.3'
AB: 46.4

**PIPE INVERT: 43.17

Node: N-120A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.17 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 46.84 | 0.0001 | 6 |
| 47.00 | 0.0004 | 19 |
| 47.50 | 0.0024 | 103 |
| 48.00 | 0.0164 | 713 |
| 48.50 | 0.0626 | 2725 |
| 49.00 | 0.1664 | 7250 |
| 49.50 | 0.3218 | 14019 |
| 50.00 | 0.4854 | 21144 |
| 50.50 | 0.6375 | 27769 |
| 51.00 | 0.8800 | 38331 |
| 51.50 | 1.1668 | 50825 |
| 52.00 | 1.4817 | 64544 |
| 52.50 | 1.8457 | 80400 |
| 53.00 | 2.2370 | 97444 |
| 53.50 | 2.5826 | 112500 |
| 54.00 | 2.8689 | 124969 |
| 54.50 | 3.0810 | 134206 |
| 55.00 | 3.2419 | 141219 |
| 55.50 | 3.4005 | 148125 |
| 56.00 | 3.5729 | 155637 |
| 56.50 | 3.7299 | 162475 |
| 57.00 | 3.8675 | 168469 |
| 57.50 | 4.0050 | 174456 |
| 58.00 | 4.1622 | 181306 |
| 58.50 | 4.2843 | 186625 |
| 59.00 | 4.3674 | 190244 |
| 59.50 | 4.4198 | 192525 |
| 60.00 | 4.4599 | 194275 |
| 60.50 | 4.4915 | 195650 |
| 61.00 | 4.5159 | 196713 |
| 61.50 | 4.5413 | 197819 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 62.00 | 4.5644 | 198825 |
| 62.50 | 4.5859 | 199763 |
| 63.00 | 4.6079 | 200719 |
| 63.50 | 4.6305 | 201706 |
| 64.00 | 4.6499 | 202550 |
| 64.50 | 4.6721 | 203519 |
| 65.00 | 4.6951 | 204519 |
| 65.50 | 4.7165 | 205450 |
| 66.00 | 4.7369 | 206337 |
| 66.50 | 4.7605 | 207369 |
| 67.00 | 4.7790 | 208175 |
| 67.50 | 4.8024 | 209194 |
| 68.00 | 4.8288 | 210344 |
| 68.50 | 4.8598 | 211694 |
| 69.00 | 4.8861 | 212838 |
| 69.50 | 4.9080 | 213794 |
| 70.00 | 4.9293 | 214719 |
| 70.50 | 4.9505 | 215644 |
| 71.00 | 4.9692 | 216460 |
| 71.50 | 4.9938 | 217531 |
| 72.00 | 5.0201 | 218675 |
| 72.50 | 5.0449 | 219756 |
| 73.00 | 5.0677 | 220750 |
| 73.50 | 5.0953 | 221950 |
| 74.00 | 5.1181 | 222944 |
| 74.50 | 5.1359 | 223719 |
| 75.00 | 5.1488 | 224281 |
| 75.50 | 5.1604 | 224788 |
| 76.00 | 5.1689 | 225158 |
| 76.50 | 5.1748 | 225413 |
| 77.00 | 5.1812 | 225694 |
| 77.50 | 5.1881 | 225992 |
| 78.00 | 5.1942 | 226261 |
| 78.50 | 5.1997 | 226500 |
| 79.00 | 5.2053 | 226743 |
| 79.50 | 5.2110 | 226992 |
| 80.00 | 5.2159 | 227206 |
| 80.50 | 5.2202 | 227394 |
| 81.00 | 5.2236 | 227541 |
| 81.50 | 5.2268 | 227681 |
| 82.00 | 5.2305 | 227840 |
| 82.50 | 5.2333 | 227964 |
| 83.00 | 5.2356 | 228063 |
| 83.50 | 5.2377 | 228156 |
| 84.00 | 5.2393 | 228225 |
| 84.50 | 5.2404 | 228274 |
| 85.00 | 5.2414 | 228314 |
| 85.50 | 5.2414 | 228314 |

Comment:

## Node: N-120B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 45.70 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 46.04 | 0.0001 | 6 |
| 46.50 | 0.0133 | 581 |
| 47.00 | 0.2429 | 10581 |
| 47.50 | 0.8243 | 35906 |
| 48.00 | 1.2610 | 54931 |
| 48.50 | 1.5417 | 67156 |
| 49.00 | 1.6754 | 72981 |
| 49.50 | 1.7684 | 77031 |
| 50.00 | 1.8321 | 79806 |
| 50.50 | 1.8850 | 82113 |
| 51.00 | 1.9278 | 83975 |
| 51.50 | 1.9655 | 85619 |
| 52.00 | 1.9849 | 86463 |
| 52.50 | 1.9954 | 86919 |
| 53.00 | 2.0004 | 87138 |
| 53.50 | 2.0029 | 87245 |
| 54.00 | 2.0040 | 87295 |
| 54.50 | 2.0043 | 87308 |
| 55.00 | 2.0045 | 87317 |
| 55.50 | 2.0045 | 87317 |

Comment:

## Node: N-122

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 44.50 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 42.84 | 0.0001 | 6 |
| 43.00 | 0.0085 | 369 |
| 43.50 | 0.0704 | 3069 |
| 44.00 | 0.1283 | 5587 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 44.50 | 0.2390 | 10412 |
| 45.00 | 0.3231 | 14075 |
| 45.50 | 0.4702 | 20481 |
| 46.00 | 0.7731 | 33675 |
| 46.50 | 1.2484 | 54381 |
| 47.00 | 1.5522 | 67612 |
| 47.50 | 1.7648 | 76875 |
| 48.00 | 1.8409 | 80188 |
| 48.50 | 1.8817 | 81969 |
| 49.00 | 1.9113 | 83256 |
| 49.50 | 1.9423 | 84606 |
| 50.00 | 1.9797 | 86238 |
| 50.50 | 2.0545 | 89494 |
| 51.00 | 2.1445 | 93413 |
| 51.50 | 2.1871 | 95271 |
| 52.00 | 2.1871 | 95271 |

Comment:

Node: N-123

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 45.40 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 43.75 | 0.0001 | 6 |
| 44.00 | 0.0009 | 38 |
| 44.50 | 0.0113 | 494 |
| 45.00 | 0.0247 | 1075 |
| 45.50 | 0.0400 | 1744 |
| 46.00 | 0.0577 | 2512 |
| 46.50 | 0.0829 | 3613 |
| 47.00 | 0.1188 | 5175 |
| 47.50 | 0.1634 | 7119 |
| 48.00 | 0.2089 | 9100 |
| 48.50 | 0.2587 | 11269 |
| 49.00 | 0.3155 | 13744 |
| 49.50 | 0.3939 | 17156 |
| 50.00 | 0.4837 | 21069 |
| 50.50 | 0.5853 | 25494 |
| 51.00 | 0.7206 | 31388 |
| 51.50 | 0.7480 | 32585 |
| 52.00 | 0.7480 | 32585 |

Comment:

Node: N-123A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 45.40 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 42.68 | 0.0001 | 6 |
| 43.00 | 0.0030 | 131 |
| 43.50 | 0.0096 | 419 |
| 44.00 | 0.0245 | 1069 |
| 44.50 | 0.0448 | 1950 |
| 45.00 | 0.0694 | 3025 |
| 45.50 | 0.1499 | 6531 |
| 46.00 | 1.3799 | 60106 |
| 46.50 | 2.4811 | 108075 |
| 47.00 | 3.0283 | 131912 |
| 47.50 | 3.4127 | 148656 |
| 48.00 | 3.6428 | 158681 |
| 48.50 | 3.7570 | 163656 |
| 49.00 | 3.8242 | 166581 |
| 49.50 | 3.8720 | 168662 |
| 50.00 | 3.9078 | 170225 |
| 50.50 | 3.9418 | 171706 |
| 51.00 | 3.9592 | 172462 |
| 51.50 | 3.9725 | 173044 |
| 52.00 | 3.9793 | 173337 |
| 52.50 | 3.9817 | 173441 |
| 53.00 | 3.9842 | 173550 |
| 53.50 | 3.9853 | 173600 |
| 54.00 | 3.9863 | 173641 |
| 54.50 | 3.9872 | 173681 |
| 55.00 | 3.9886 | 173741 |
| 55.50 | 3.9886 | 173741 |

Comment:

Node: N-124

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 44.90 ft

Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 43.66 | 0.0001 | 6 |
| 44.00 | 0.0069 | 300 |
| 44.50 | 0.0308 | 1344 |
| 45.00 | 0.1093 | 4763 |
| 45.50 | 0.4571 | 19912 |
| 46.00 | 1.2563 | 54725 |
| 46.50 | 1.8690 | 81413 |
| 47.00 | 2.2744 | 99075 |
| 47.50 | 2.4551 | 106944 |
| 48.00 | 2.5037 | 109062 |
| 48.50 | 2.5205 | 109794 |
| 49.00 | 2.5418 | 110719 |
| 49.50 | 2.5818 | 112463 |
| 50.00 | 2.6752 | 116531 |
| 50.50 | 2.6991 | 117573 |
| 51.00 | 2.6991 | 117573 |

Comment:

## Node: N-125

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 42.80 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 41.95 | 0.0003 | 13 |
| 42.00 | 0.0007 | 30 |
| 42.50 | 0.0189 | 825 |
| 43.00 | 0.0383 | 1669 |
| 43.50 | 0.0577 | 2512 |
| 44.00 | 0.0653 | 2844 |
| 44.50 | 0.0805 | 3506 |
| 45.00 | 0.0981 | 4275 |
| 45.50 | 0.1508 | 6569 |
| 46.00 | 0.1954 | 8512 |
| 46.50 | 0.2716 | 11831 |
| 47.00 | 0.3099 | 13500 |
| 47.50 | 0.3385 | 14744 |
| 48.00 | 0.3652 | 15906 |
| 48.50 | 0.3949 | 17200 |
| 49.00 | 0.4425 | 19275 |
| 49.50 | 0.5294 | 23062 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 50.00 | 0.6424 | 27981 |
| 50.50 | 0.6974 | 30377 |
| 51.00 | 0.6974 | 30377 |

Comment: ** PIPE INVERT: 42.03
**SHW1399R: 42.8
**WL-1398-R-1068: SHW EL 45

## Node: N-125A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 42.80 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 42.65 | 0.0001 | 6 |
| 43.00 | 0.0022 | 94 |
| 43.50 | 0.0347 | 1512 |
| 44.00 | 0.0583 | 2538 |
| 44.50 | 0.0895 | 3900 |
| 45.00 | 0.2319 | 10100 |
| 45.50 | 0.9095 | 39619 |
| 46.00 | 1.1034 | 48062 |
| 46.50 | 1.2814 | 55819 |
| 47.00 | 1.3819 | 60194 |
| 47.50 | 1.4579 | 63506 |
| 48.00 | 1.5096 | 65756 |
| 48.50 | 1.5219 | 66294 |
| 49.00 | 1.5220 | 66298 |
| 49.50 | 1.5220 | 66298 |

Comment:

## Node: N-126

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 40.95 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 38.70 | 0.0001 | 6 |
| 39.00 | 0.0504 | 2194 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 39.50 | 0.2660 | 11587 |
| 40.00 | 0.4464 | 19444 |
| 40.50 | 0.6104 | 26587 |
| 41.00 | 0.7481 | 32587 |
| 41.50 | 0.8679 | 37806 |
| 42.00 | 0.9985 | 43494 |
| 42.50 | 1.2638 | 55050 |
| 43.00 | 2.3403 | 101944 |
| 43.50 | 4.1134 | 179181 |
| 44.00 | 6.5576 | 285650 |
| 44.50 | 8.7982 | 383250 |
| 45.00 | 11.3852 | 495937 |
| 45.50 | 13.0501 | 568462 |
| 46.00 | 14.1229 | 615194 |
| 46.50 | 15.0725 | 656556 |
| 47.00 | 15.5171 | 675925 |
| 47.50 | 15.9319 | 693994 |
| 48.00 | 16.1893 | 705206 |
| 48.50 | 16.4480 | 716475 |
| 49.00 | 16.7807 | 730969 |
| 49.50 | 16.9110 | 736644 |
| 50.00 | 16.9502 | 738350 |
| 50.50 | 16.9630 | 738906 |
| 51.00 | 16.9723 | 739313 |
| 51.50 | 16.9819 | 739731 |
| 52.00 | 16.9848 | 739857 |
| 52.50 | 16.9848 | 739857 |

Comment: **SHW-14-1414-C
SHW EL. 41.0
** SHW-13-LS-A
SHW EL. 40.9

** PIPE INVER: 38.94

Node: N-126A

| | |
|---|---|
| Scenario: | Scenario1 |
| Type: | Stage/Area |
| Base Flow: | 0.00 cfs |
| Initial Stage: | 41.95 ft |
| Warning Stage: | 0.00 ft |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 41.63 | 0.0001 | 6 |
| 42.00 | 0.0435 | 1894 |
| 42.50 | 0.3428 | 14931 |
| 43.00 | 3.1244 | 136100 |
| 43.50 | 8.0871 | 352275 |
| 44.00 | 14.0512 | 612069 |
| 44.50 | 16.6218 | 724044 |
| 45.00 | 16.9773 | 739531 |
| 45.50 | 17.1125 | 745419 |
| 46.00 | 17.2578 | 751750 |
| 46.50 | 17.3151 | 754246 |
| 47.00 | 17.3151 | 754246 |

Comment: PBA-SMF1303B-3
PBA-SMF1303B-4

Node: N-127

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.00 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 39.72 | 0.0001 | 6 |
| 40.00 | 0.0020 | 88 |
| 40.50 | 0.0880 | 3831 |
| 41.00 | 0.2267 | 9875 |
| 41.50 | 0.3250 | 14156 |
| 42.00 | 0.3918 | 17069 |
| 42.50 | 0.4415 | 19231 |
| 43.00 | 0.4759 | 20731 |
| 43.50 | 0.5117 | 22288 |
| 44.00 | 0.5543 | 24144 |
| 44.50 | 0.5891 | 25663 |
| 45.00 | 0.6227 | 27125 |
| 45.50 | 0.6599 | 28744 |
| 46.00 | 0.7277 | 31700 |
| 46.50 | 0.8514 | 37088 |
| 47.00 | 1.0546 | 45938 |
| 47.50 | 1.3832 | 60250 |
| 48.00 | 1.6552 | 72100 |
| 48.50 | 1.8345 | 79913 |
| 49.00 | 2.0160 | 87819 |
| 49.50 | 2.0203 | 88004 |
| 50.00 | 2.0203 | 88004 |

Comment:

## Node: N-127A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.80 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 41.54 | 0.0003 | 13 |
| 42.00 | 0.0082 | 356 |
| 42.50 | 0.1238 | 5394 |
| 43.00 | 0.4312 | 18781 |
| 43.50 | 1.0876 | 47375 |
| 44.00 | 1.8912 | 82381 |
| 44.50 | 3.4226 | 149087 |
| 45.00 | 5.9414 | 258806 |
| 45.50 | 9.1450 | 398356 |
| 46.00 | 10.5772 | 460744 |
| 46.50 | 10.8468 | 472487 |
| 47.00 | 11.0605 | 481794 |
| 47.50 | 11.2768 | 491219 |
| 48.00 | 11.3958 | 496400 |
| 48.50 | 11.4056 | 496828 |
| 49.00 | 11.4057 | 496834 |
| 49.50 | 11.4057 | 496834 |

Comment: PBA-SMF1303C-3

## Node: N-127B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.30 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 39.90 | 0.0001 | 6 |
| 40.00 | 0.0023 | 100 |
| 40.50 | 0.0459 | 2000 |
| 41.00 | 0.1195 | 5206 |
| 41.50 | 0.1913 | 8331 |
| 42.00 | 0.3063 | 13344 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 42.50 | 0.5237 | 22813 |
| 43.00 | 0.8781 | 38250 |
| 43.50 | 1.3513 | 58862 |
| 44.00 | 2.0262 | 88262 |
| 44.50 | 3.6006 | 156844 |
| 45.00 | 6.4149 | 279431 |
| 45.50 | 8.3048 | 361756 |
| 46.00 | 9.2928 | 404794 |
| 46.50 | 10.1187 | 440769 |
| 47.00 | 10.6632 | 464488 |
| 47.50 | 11.1440 | 485431 |
| 48.00 | 11.4860 | 500331 |
| 48.50 | 11.5365 | 502531 |
| 49.00 | 11.5464 | 502962 |
| 49.50 | 11.5541 | 503296 |
| 50.00 | 11.5541 | 503296 |

Comment: PBA-SMF1303C-4

Node: N-127C

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.80 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 41.86 | 0.0001 | 6 |
| 42.00 | 0.0012 | 51 |
| 42.50 | 0.0238 | 1038 |
| 43.00 | 0.1723 | 7506 |
| 43.50 | 0.7175 | 31256 |
| 44.00 | 1.5898 | 69250 |
| 44.50 | 2.5353 | 110437 |
| 45.00 | 4.2157 | 183638 |
| 45.50 | 7.4798 | 325819 |
| 46.00 | 10.4032 | 453163 |
| 46.50 | 10.7759 | 469400 |
| 47.00 | 10.9341 | 476287 |
| 47.50 | 11.0872 | 482956 |
| 48.00 | 11.1622 | 486225 |
| 48.50 | 11.1640 | 486304 |
| 49.00 | 11.1640 | 486304 |

Comment:

Node: N-128

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.00 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 38.11 | 0.0001 | 6 |
| 38.50 | 0.0044 | 194 |
| 39.00 | 0.0287 | 1250 |
| 39.50 | 0.0947 | 4125 |
| 40.00 | 0.2214 | 9644 |
| 40.50 | 0.3805 | 16575 |
| 41.00 | 0.4908 | 21381 |
| 41.50 | 0.5655 | 24631 |
| 42.00 | 0.6511 | 28362 |
| 42.50 | 1.0102 | 44006 |
| 43.00 | 1.7090 | 74444 |
| 43.50 | 2.5174 | 109656 |
| 44.00 | 3.5537 | 154800 |
| 44.50 | 4.6340 | 201856 |
| 45.00 | 6.4413 | 280581 |
| 45.50 | 8.5174 | 371019 |
| 46.00 | 10.9411 | 476594 |
| 46.50 | 11.6780 | 508694 |
| 47.00 | 11.9840 | 522025 |
| 47.50 | 12.3178 | 536562 |
| 48.00 | 12.4162 | 540850 |
| 48.50 | 12.5050 | 544719 |
| 49.00 | 12.6070 | 549162 |
| 49.50 | 12.7049 | 553425 |
| 50.00 | 12.7049 | 553425 |

Comment: 36.27

GEOTECH:

NO BORING DATA IN THIS LOCATION.

THE AVG CONTOUR LINE FOR THE SHAPE IS 42.75'.

SOIL SYMBOL 13. FROM NRCS SHWL DEPTH 0.3-1.5'.
ESTIMATED SHWL: 41.25

1-21-2025:
IS changed from 43.3 to 36.27

3-27-2025: changed from 36.27 to 43.5' due to new boring data of
PBA13-SMF8-9A-7

## Node: N-128A

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.10 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 41.61 | 0.0001 | 6 |
| 42.00 | 0.0115 | 500 |
| 42.50 | 0.9135 | 39794 |
| 43.00 | 5.1349 | 223675 |
| 43.50 | 12.5845 | 548181 |
| 44.00 | 19.7218 | 859081 |
| 44.50 | 24.8980 | 1084556 |
| 45.00 | 32.9507 | 1435331 |
| 45.50 | 44.4994 | 1938394 |
| 46.00 | 53.2602 | 2320012 |
| 46.50 | 54.8496 | 2389250 |
| 47.00 | 54.9960 | 2395625 |
| 47.50 | 55.0389 | 2397494 |
| 48.00 | 55.0389 | 2397494 |

Comment: PBA13-SMF8-9A-8

## Node: N-128B

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.10 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 41.95 | 0.0001 | 6 |
| 42.00 | 0.0017 | 75 |
| 42.50 | 0.0515 | 2244 |
| 43.00 | 0.1136 | 4950 |
| 43.50 | 0.1596 | 6950 |
| 44.00 | 0.3386 | 14750 |
| 44.50 | 2.1536 | 93813 |
| 45.00 | 5.9191 | 257838 |
| 45.50 | 7.1935 | 313350 |
| 46.00 | 7.5395 | 328419 |
| 46.50 | 7.6121 | 331581 |
| 47.00 | 7.6257 | 332174 |
| 47.50 | 7.6257 | 332174 |

Comment: no boring data, but closest data considered 128A

## Node: N-128C

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.20 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 41.47 | 0.0001 | 6 |
| 41.50 | 0.0004 | 19 |
| 42.00 | 0.0132 | 575 |
| 42.50 | 0.0297 | 1294 |
| 43.00 | 0.0568 | 2475 |
| 43.50 | 0.1096 | 4775 |
| 44.00 | 0.2748 | 11969 |
| 44.50 | 0.4749 | 20688 |
| 45.00 | 1.1717 | 51038 |
| 45.50 | 2.3113 | 100681 |
| 46.00 | 3.5712 | 155563 |
| 46.50 | 4.0067 | 174531 |
| 47.00 | 4.1024 | 178700 |
| 47.50 | 4.1305 | 179925 |
| 48.00 | 4.1391 | 180297 |
| 48.50 | 4.1391 | 180297 |

Comment: PBA13-SMF8-9A-6 and
PBA13-SMF8-9A-5

## Node: NTZ-1040

Scenario: Scenario1
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 43.00 ft
Warning Stage: 0.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 37.70 | 0.0500 | 2178 |
| 99999.00 | 0.0500 | 2178 |

Comment:

Node: NTZ-1080

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 122.68 ft
Warning Stage: 0.00 ft
Boundary Stage:

Comment: Basin SHWT form Page 6:

"J:\75614 Arterial Corridors Program\TECHPROD\75614-DS-010_Seg_12-14\Drainage\Segment 13\Research\ERP 25519.001 SR 25 (US 27) at SR 70 Report.pdf"

Node: NTZ-1520

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

Comment:

Node: NTZ-1530

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 0.00 ft
Boundary Stage: SOUTH CANAL NTZ-1530

Comment:

Node: NTZ-1540

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

Boundary Stage:

Comment:

## Node: NTZ-1550

Scenario: Scenario1
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 0.00 ft
Warning Stage: 0.00 ft
Boundary Stage: NORTH CANAL NTZ-1550

Comment:

## Node: NTZ-1570

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

Comment:

## Pipe Link: L-0010P

| | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 119.66 ft | Invert: | 119.49 ft |
| From Node: | N-101 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-102 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | 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: | 181.04 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.20 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Weir Link: L-0010W | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-100 | Default: | 0.00 ft |
| To Node: | N-102 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 128.48 ft | Discharge Coefficients | |
| Control Elevation: | 128.48 ft | Weir Default: | 2.800 |
| Cross Section: | X-0010W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

| Weir Link: L-0020W | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-115A | Default: | 0.00 ft |
| To Node: | N-115 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 110.50 ft | Discharge Coefficients | |
| Control Elevation: | 110.50 ft | Weir Default: | 2.800 |
| Cross Section: | X-0020W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

| Pipe Link: L-0030P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 114.02 ft | Invert: | 113.68 ft |
| From Node: | N-108 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-109 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | 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: | 137.26 ft | Op Table: | | Op Table: | |

| | | | | | |
|---|---|---|---|---|---|
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.20 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Pipe Link: L-0050P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 96.21 ft | Invert: | 96.15 ft |
| From Node: | N-116 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-117 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | 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: | 92.16 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.20 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Weir Link: L-0050W | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-100 | Default: | 0.00 ft |
| To Node: | N-101 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 125.54 ft | Discharge Coefficients | |
| Control Elevation: | 125.54 ft | Weir Default: | 2.800 |
| Cross Section: | X-0050W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

| Pipe Link: L-0070P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 108.48 ft | Invert: | 108.39 ft |
| From Node: | N-112 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-113 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | 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: | 152.22 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.20 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Weir Link: L-0070W | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-104 | Default: | 0.00 ft |
| To Node: | NTZ-1520 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 121.15 ft | Discharge Coefficients | |
| Control Elevation: | 121.15 ft | Weir Default: | 2.800 |
| Cross Section: | X-0070W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

| Weir Link: L-0220W | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-109 | Default: | 0.00 ft |
| To Node: | N-109A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 116.26 ft | Discharge Coefficients | |
| Control Elevation: | 116.26 ft | Weir Default: | 2.800 |
| Cross Section: | X-0220W | Weir Table: | |

| | |
|---|---|
| Orifice Default: | 0.600 |
| Orifice Table: | |

Comment:

| Pipe Link: L-0430P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 39.04 ft | Invert: | 38.94 ft |
| From Node: | N-126 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-0410 | 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: | 30.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 0 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.20 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |

Comment:

| Pipe Link: L-0590P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 36.27 ft | Invert: | 35.95 ft |
| From Node: | N-128 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-0350C | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 6.00 ft | Max Depth: | 6.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 160.93 ft | Op Table: | | Op Table: | |
| FHWA Code: | 0 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.25 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |

Comment:

| Pipe Link: L-0610P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 37.70 ft | Invert: | 37.31 ft |
| From Node: | NTZ-1040 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

| | | | | | |
|---|---|---|---|---|---|
| To Node: | N-127 | 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: | 48.56 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.25 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Pipe Link: L-0630P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 43.17 ft | Invert: | 43.11 ft |
| From Node: | N-120 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-123 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.50 ft | Max Depth: | 2.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 438.84 ft | Op Table: | | Op Table: | |
| FHWA Code: | 0 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.00 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Pipe Link: L-0640P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 123.49 ft | Invert: | 123.99 ft |
| From Node: | N-100 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-102 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 139.82 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.20 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |

| | | | | | |
|---|---|---|---|---|---|
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Pipe Link: L-0650P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 42.03 ft | Invert: | 37.31 ft |
| From Node: | N-125 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-127 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 51.17 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.25 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 0.50 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment:

| Pipe Link: L-0660P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 119.04 ft | Invert: | 114.63 ft |
| From Node: | N-107 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-106 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 86.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.20 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

| Pipe Link: L-0720P | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 38.01 ft | Invert: | 36.27 ft |
| From Node: | NTZ-1040 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-128 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 5.00 ft | Max Depth: | 5.00 ft |

| | | | | | |
|---|---|---|---|---|---|
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 50.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.00 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.50 | Top Clip | | | |
| Bend Loss Coef: | 0.25 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

## Weir Link: L-0730W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-102 | Default: | 0.00 ft |
| To Node: | NTZ-1080 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 124.55 ft | Discharge Coefficients | |
| Control Elevation: | 124.55 ft | Weir Default: | 2.800 |
| Cross Section: | X-0730W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0740W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-104 | Default: | 0.00 ft |
| To Node: | N-106 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 121.39 ft | Discharge Coefficients | |
| Control Elevation: | 121.39 ft | Weir Default: | 2.800 |
| Cross Section: | X-0740W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0760W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-107 | Default: | 0.00 ft |
| To Node: | N-108 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 121.97 ft | **Discharge Coefficients** | |
| Control Elevation: | 121.97 ft | Weir Default: | 2.800 |
| Cross Section: | X-0760W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0770W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-124 | Default: | 0.00 ft |
| To Node: | N-126 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 47.65 ft | **Discharge Coefficients** | |
| Control Elevation: | 47.65 ft | Weir Default: | 2.800 |
| Cross Section: | X-0040W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0800W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-120 | Default: | 0.00 ft |
| To Node: | N-120A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 48.58 ft | **Discharge Coefficients** | |
| Control Elevation: | 48.58 ft | Weir Default: | 2.800 |
| Cross Section: | X-0280W | Weir Table: | |
| | | Orifice Default: | 0.600 |

| | |
|---|---|
| Orifice Table: | |

Comment:

## Weir Link: L-0810W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-123 |
| To Node: | N-123A |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 45.40 ft |
| Control Elevation: | 45.40 ft |
| Cross Section: | X-0320W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: Use survey to create best fit trapezoidal section but add bottom clip measured upward from the bottom of tapezoidal section (invert elevation) to top of clip 45.4

## Weir Link: L-0820W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-110 |
| To Node: | N-111 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 114.92 ft |
| Control Elevation: | 114.92 ft |
| Cross Section: | X-0820W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-0830W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-105 |
| To Node: | NTZ-1540 |
| Link Count: | 1 |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

| | |
|---|---|
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 117.32 ft |
| Control Elevation: | 117.32 ft |
| Cross Section: | X-0110W |

| 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: L-0840W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-107 |
| To Node: | NTZ-1540 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 118.47 ft |
| Control Elevation: | 118.47 ft |
| Cross Section: | X-0120W |

| Bottom Clip | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

| 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: L-0850W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-118 |
| To Node: | NTZ-1550 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 45.56 ft |
| Control Elevation: | 45.56 ft |
| Cross Section: | X-0130W |

| Bottom Clip | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

| 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: L-0860W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-122 |
| To Node: | NTZ-1550 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 46.74 ft |
| Control Elevation: | 46.74 ft |
| Cross Section: | X-0160W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-0870W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-124 |
| To Node: | NTZ-1550 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 44.40 ft |
| Control Elevation: | 44.40 ft |
| Cross Section: | X-0170W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-0890W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-125 |
| To Node: | N-123A |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 47.98 ft |
| Control Elevation: | 47.98 ft |
| Cross Section: | X-0330W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-0900W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-112 |
| To Node: | NTZ-1570 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 111.37 ft |
| Control Elevation: | 111.37 ft |
| Cross Section: | X-0180W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-0909W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-107B |
| To Node: | NTZ-1540 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 116.67 ft |
| Control Elevation: | 116.67 ft |
| Cross Section: | X-0240W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: X-0240W

## Weir Link: L-0910W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-106 |
| To Node: | NTZ-1520 |
| Link Count: | 1 |
| Flow Direction: | Both |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Top Clip**

| | | | |
|---|---|---|---|
| Damping: | 0.0000 ft | | |
| Weir Type: | Broad Crested Vertical | Default: | 0.00 ft |
| Geometry Type: | Irregular | Op Table: | |
| Invert: | 121.27 ft | Ref Node: | |
| Control Elevation: | 121.27 ft | Discharge Coefficients | |
| Cross Section: | X-0250W | Weir Default: | 2.800 |
| | | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0930W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-117 | Default: | 0.00 ft |
| To Node: | N-119 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 99.12 ft | Discharge Coefficients | |
| Control Elevation: | 99.12 ft | Weir Default: | 2.800 |
| Cross Section: | X-0930W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0940W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-106 | Default: | 0.00 ft |
| To Node: | N-106B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 118.19 ft | Discharge Coefficients | |
| Control Elevation: | 118.19 ft | Weir Default: | 2.800 |
| Cross Section: | X-0260W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0950W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-106B | Default: | 0.00 ft |
| To Node: | N-106A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 119.20 ft | **Discharge Coefficients** | |
| Control Elevation: | 119.20 ft | Weir Default: | 2.800 |
| Cross Section: | X-0270W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment: X-0270W

## Weir Link: L-0970W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-120 | Default: | 0.00 ft |
| To Node: | N-123 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 49.16 ft | **Discharge Coefficients** | |
| Control Elevation: | 49.16 ft | Weir Default: | 2.800 |
| Cross Section: | X-0970W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-0980W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-107A | Default: | 0.00 ft |
| To Node: | NTZ-1540 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 117.67 ft | **Discharge Coefficients** | |
| Control Elevation: | 117.67 ft | Weir Default: | 2.800 |
| Cross Section: | X-0230W | Weir Table: | |
| | | Orifice Default: | 0.600 |

| | |
|---|---|
| Orifice Table: | |

Comment:

## Weir Link: L-0990W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-118 |
| To Node: | N-122 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 47.54 ft |
| Control Elevation: | 47.54 ft |
| Cross Section: | X-0990W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1000W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-120A |
| To Node: | N-120B |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 47.76 ft |
| Control Elevation: | 47.76 ft |
| Cross Section: | X-0290W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1010W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-122 |
| To Node: | N-124 |
| Link Count: | 1 |
| Flow Direction: | Both |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Top Clip**

| | |
|---|---|
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 48.01 ft |
| Control Elevation: | 48.01 ft |
| Cross Section: | X-1010W |

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Discharge Coefficients**

| | |
|---|---|
| Weir Default: | 2.800 |
| Weir Table: | |
| Orifice Default: | 0.600 |
| Orifice Table: | |

Comment:

**Pipe Link: L-102**

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-104 |
| To Node: | N-102 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Length: | 51.82 ft |
| FHWA Code: | 1 |
| Entr Loss Coef: | 0.00 |
| Exit Loss Coef: | 0.50 |
| Bend Loss Coef: | 0.25 |
| Bend Location: | 0.00 dec |
| Energy Switch: | Energy |

| Upstream | | Downstream | |
|---|---|---|---|
| Invert: | 121.16 ft | Invert: | 120.09 ft |
| Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Geometry: Circular | | Geometry: Circular | |
| Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Bottom Clip | | | |
| Default: | 0.00 ft | Default: | 0.00 ft |
| Op Table: | | Op Table: | |
| Ref Node: | | Ref Node: | |
| Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Top Clip | | | |
| Default: | 0.00 ft | Default: | 0.00 ft |
| Op Table: | | Op Table: | |
| Ref Node: | | Ref Node: | |
| Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

**Weir Link: L-1020W**

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-123 |
| To Node: | N-125 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 45.40 ft |
| Control Elevation: | 45.40 ft |
| Cross Section: | X-1020W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: Use survey to create best fit trapezoidal section but add bottom clip measured upward from the bottom of tapezoidal section (invert elevation) to top of clip 45.4

## Weir Link: L-1030W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-120A |
| To Node: | NTZ-1530 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 48.36 ft |
| Control Elevation: | 48.36 ft |
| Cross Section: | X-0350W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1040W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-120B |
| To Node: | NTZ-1530 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 47.11 ft |
| Control Elevation: | 47.11 ft |
| Cross Section: | X-0360W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1050W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-125 |
| To Node: | N-127 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 47.33 ft |
| Control Elevation: | 47.33 ft |
| Cross Section: | X-1050W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1060W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-125A |
| To Node: | NTZ-1530 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 44.76 ft |
| Control Elevation: | 44.76 ft |
| Cross Section: | X-0380W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1070W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-127A |
| To Node: | N-127C |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 42.46 ft |
| Control Elevation: | 42.46 ft |
| Cross Section: | X-0390W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1080W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-120B |
| To Node: | N-123A |
| Link Count: | 1 |
| Flow Direction: | Both |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Top Clip**

| | | | |
|---|---|---|---|
| Damping: | 0.0000 ft | | |
| Weir Type: | Broad Crested Vertical | Default: | 0.00 ft |
| Geometry Type: | Irregular | Op Table: | |
| Invert: | 47.83 ft | Ref Node: | |
| Control Elevation: | 47.83 ft | Discharge Coefficients | |
| Cross Section: | X-0400W | Weir Default: | 2.800 |
| | | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-1090W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-127C | Default: | 0.00 ft |
| To Node: | NTZ-1530 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 42.87 ft | Discharge Coefficients | |
| Control Elevation: | 42.87 ft | Weir Default: | 2.800 |
| Cross Section: | X-0410W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-1100W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-125 | Default: | 0.00 ft |
| To Node: | N-125A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 44.86 ft | Discharge Coefficients | |
| Control Elevation: | 44.86 ft | Weir Default: | 2.800 |
| Cross Section: | X-0340W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-1130W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-128C | Default: | 0.00 ft |
| To Node: | N-128 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 44.70 ft | **Discharge Coefficients** | |
| Control Elevation: | 44.70 ft | Weir Default: | 2.800 |
| Cross Section: | X-0420W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-1140W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-128 | Default: | 0.00 ft |
| To Node: | N-0350C | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 43.39 ft | **Discharge Coefficients** | |
| Control Elevation: | 43.39 ft | Weir Default: | 2.800 |
| Cross Section: | X-0460W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-1150W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | **Bottom Clip** | |
| From Node: | N-101 | Default: | 0.00 ft |
| To Node: | N-103 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 123.41 ft | **Discharge Coefficients** | |
| Control Elevation: | 123.41 ft | Weir Default: | 2.800 |
| Cross Section: | X-1150W | Weir Table: | |
| | | Orifice Default: | 0.600 |

| | |
|---|---|
| | Orifice Table: |

Comment: X-0430W

## Weir Link: L-1160W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-102 |
| To Node: | N-104 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 123.42 ft |
| Control Elevation: | 123.42 ft |
| Cross Section: | X-1160W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1170W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-109A |
| To Node: | N-113 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 114.00 ft |
| Control Elevation: | 114.00 ft |
| Cross Section: | X-0850W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-1180W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-103 |
| To Node: | N-105 |
| Link Count: | 1 |
| Flow Direction: | Both |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Top Clip**

| | | | |
|---|---|---|---|
| Damping: | 0.0000 ft | | |
| Weir Type: | Broad Crested Vertical | Default: | 0.00 ft |
| Geometry Type: | Irregular | Op Table: | |
| Invert: | 121.78 ft | Ref Node: | |
| Control Elevation: | 121.78 ft | Discharge Coefficients | |
| Cross Section: | X-1180W | Weir Default: | 2.800 |
| | | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

Weir Link: L-1190W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-105 | Default: | 0.00 ft |
| To Node: | N-107 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 118.72 ft | Discharge Coefficients | |
| Control Elevation: | 118.72 ft | Weir Default: | 2.800 |
| Cross Section: | X-1190W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

Weir Link: L-1550W

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Bottom Clip | |
| From Node: | N-123A | Default: | 0.00 ft |
| To Node: | NTZ-1530 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 45.54 ft | Discharge Coefficients | |
| Control Elevation: | 45.54 ft | Weir Default: | 2.800 |
| Cross Section: | X-0370W | Weir Table: | |
| | | Orifice Default: | 0.600 |
| | | Orifice Table: | |

Comment:

## Weir Link: L-2050W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-120 |
| To Node: | N-120B |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 47.32 ft |
| Control Elevation: | 47.32 ft |
| Cross Section: | X-0300W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-5550W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-128C |
| To Node: | N-128A |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 44.87 ft |
| Control Elevation: | 44.87 ft |
| Cross Section: | X-0430W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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: L-6660W

| | |
|---|---|
| Scenario: | Scenario1 |
| From Node: | N-128B |
| To Node: | N-0350C |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 44.01 ft |
| Control Elevation: | 44.01 ft |
| Cross Section: | X-0440W |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**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:

## Percolation Link: PC-105

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Use 1st Point in Stage/Area Table |
| From Node: | N-105 | | |
| To Node: | GT-105 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 1717.47 ft |
| Flow Direction: | Both | Perimeter 2: | 1828.20 ft |
| Aquifer Base Elevation: | 106.50 ft | Perimeter 3: | 1994.32 ft |
| Water Table Elevation: | 116.50 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 0.81 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' = 116.5- 10= 106.5'
WATER TABLE EL: SHWL = 116.5
LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTHN ARE SAME EL) = 115.69- 116.5= 0.81

BORING : SH13- 355R

## Percolation Link: PC-106

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Use 1st Point in Stage/Area Table |
| From Node: | N-106 | | |
| To Node: | GT-106 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 799.65 ft |
| Flow Direction: | Both | Perimeter 2: | 923.13 ft |
| Aquifer Base Elevation: | 105.50 ft | Perimeter 3: | 1107.48 ft |
| Water Table Elevation: | 114.10 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 0.53 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' = 115.5- 10= 105.5
WATER TABLE EL: SHWL = 114.1
**SH13-370R SHGWT 116.9
**SH13-360R SHGWT 118.2
**SH13-380 R SHGWT 114.1**

LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTHN ARE SAME EL) = 114.63-114.1=0.53

**THE CONTOUR LINE FOR THE SHAPE IS 117.75"

## Percolation Link: PC-108

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-108 | | |
| To Node: | GT-108 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 532.35 ft |
| Flow Direction: | Both | Perimeter 2: | 657.88 ft |
| Aquifer Base Elevation: | 105.25 ft | Perimeter 3: | 846.20 ft |
| Water Table Elevation: | 115.00 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 0.85 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' = 115.25- 10= 105.25
**WATER TABLE EL: 114.4
WL-1316-L-1056 SHW 114.4

**LAYER THICKNESS: SA BOTTOM -WT = 115.25-114.4=0.85

**THE AVG CONTOUR LINE FOR THE SHAPE IS 115.25"

## Percolation Link: PC-109

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-109 | | |
| To Node: | GT-109 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 1119.03 ft |
| Flow Direction: | Both | Perimeter 2: | 1244.36 ft |
| Aquifer Base Elevation: | 104.10 ft | Perimeter 3: | 1432.36 ft |
| Water Table Elevation: | 114.50 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 2.72 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' = 114.1- 10= 104.1
WATER TABLE EL: SHWL = 114.1
LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTH ARE SAME EL) = 111.38-114.1 = 2.72
BORING : SH13- 380R

## Percolation Link: PC-110

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-110 | | |
| To Node: | GT-110 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 778.59 ft |
| Flow Direction: | Both | Perimeter 2: | 904.62 ft |
| Aquifer Base Elevation: | 100.00 ft | Perimeter 3: | 1092.17 ft |
| Water Table Elevation: | 112.60 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 2.16 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' = 110- 10=100
**WATER TABLE EL: SHWL = 112.6
**LAYER THICKNESS: SA BOTTOM -WT = 110-112.6 = 2.16

THE AVG CONTOUR LINE FOR THE SHAPE IS 114.5' (AVG)
LOWEST SURFACE EL 110

## Percolation Link: PC-111

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-111 | | |
| To Node: | GT-111 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 447.44 ft |
| Flow Direction: | Both | Perimeter 2: | 572.96 ft |
| Aquifer Base Elevation: | 101.00 ft | Perimeter 3: | 761.55 ft |
| Water Table Elevation: | 110.00 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 1.00 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' = 111 - 10= 101
**WATER TABLE: SHWL = 110
**LAYER THICKNESS: SA BOTTOM - WT (OR SHWL IF, BOTH ARE SAME EL) =111-110=1

SURFACE BOTTOM EL 111

## Percolation Link: PC-112

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-112 | | |
| To Node: | GT-112 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 503.45 ft |
| Flow Direction: | Both | Perimeter 2: | 628.97 ft |
| Aquifer Base Elevation: | 93.50 ft | Perimeter 3: | 817.25 ft |
| Water Table Elevation: | 105.20 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 11.70 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' =103.5- 10= 93.5
**WATER TABLE EL: (107.2+103.2)/2=105.2
SH13-395R: SHGWT 107.2 (OPPOSITE)
SH13-400R: SHGWT 103.2 (OPPOSITE)
**LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTH ARE SAME EL) = 105.2- 93.5=11.7

MINIMUM SURFACE EL 103.5
THE AVG CONTOUR LINE FOR THE SHAPE IS 106.5'

## Percolation Link: PC-113

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-113 | | |
| To Node: | GT-113 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 1084.82 ft |
| Flow Direction: | Both | Perimeter 2: | 1210.09 ft |
| Aquifer Base Elevation: | 99.50 ft | Perimeter 3: | 1398.00 ft |
| Water Table Elevation: | 105.20 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 45.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 22.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 4.30 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' = 109.5- 10= 99.5
**WATER TABLE EL: SHGWL = 105.2
**LAYER THICKNESS: SA BOTTOM -WT = 109.5- 105.2=4.3

MINIMUM SURFACE EL 109.5
** SH13-395R SHGWT EL. 107.2

## Percolation Link: PC-114

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-114 | | |
| To Node: | GT-114 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 278.35 ft |
| Flow Direction: | Both | Perimeter 2: | 403.81 ft |
| Aquifer Base Elevation: | 92.70 ft | Perimeter 3: | 592.29 ft |
| Water Table Elevation: | 92.70 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 0.00 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' = 102.7- 10=92.7
(NOT CORRECT)
WATER TABLE EL: SHWL =92.7. BUT SHWL CAN'T BE LOWER THAN AQUIFER BASE EL. SO AQUIFER BASE EL: 93.6''
LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTH ARE SAME EL) =0
BORING :
SH13- 415R

## Percolation Link: PC-115

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-115 | | |
| To Node: | GT-115 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 509.95 ft |
| Flow Direction: | Both | Perimeter 2: | 530.11 ft |
| Aquifer Base Elevation: | 83.00 ft | Perimeter 3: | 718.67 ft |
| Water Table Elevation: | 92.70 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 0.30 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' = 93- 10=83
**WATER TABLE EL: 92.7 (SH13-415R SHGWT EL)
**LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTHN ARE SAME EL) = 93-92.7=0.3

BORING : SH13- 415R

## Percolation Link: PC-115-1

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-115 | | |
| To Node: | GT-115_1 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 580.32 ft |
| Flow Direction: | Both | Perimeter 2: | 705.84 ft |
| Aquifer Base Elevation: | 83.00 ft | Perimeter 3: | 894.16 ft |
| Water Table Elevation: | 92.70 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 0.30 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' = 93- 10=83
**WATER TABLE EL: 92.7 (SH13-415R SHGWT EL)
**LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTHN ARE SAME EL) = 93-92.7=0.3

BORING : SH13- 415R

## Percolation Link: PC-115A

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-115A | | |
| To Node: | GT-115A | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 404.56 ft |
| Flow Direction: | Both | Perimeter 2: | 530.11 ft |
| Aquifer Base Elevation: | 89.50 ft | Perimeter 3: | 718.67 ft |
| Water Table Elevation: | 90.50 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 11.00 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-12' =101.5- 12=89.5
**WATER TABLE EL: 90.5
**LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTHN ARE SAME EL) = 101.5-90.5=11

BORING : SH13- 410R

## Percolation Link: PC-117

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-117 | | |
| To Node: | GT-117 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 1005.94 ft |
| Flow Direction: | Both | Perimeter 2: | 1130.92 ft |
| Aquifer Base Elevation: | 79.00 ft | Perimeter 3: | 1318.40 ft |
| Water Table Elevation: | 81.20 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 12.80 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' =94- 15=79
**WATER TABLE EL: 81.2
**LAYER THICKNESS: 94-81.2= 12.8

BORING : SH13- 425R

## Percolation Link: PC-117-1

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-117 | | |
| To Node: | GT-117-1 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 1044.33 ft |
| Flow Direction: | Both | Perimeter 2: | 1163.41 ft |
| Aquifer Base Elevation: | 79.00 ft | Perimeter 3: | 1342.06 ft |
| Water Table Elevation: | 81.20 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 9.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 4.500 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 12.80 ft | | |

Comment: **AQUIFER BASE EL: SURFACE EL @ BORING-10' =94- 15=79
**WATER TABLE EL: 81.2
**LAYER THICKNESS: 94-81.2= 12.8

BORING : SH13- 425R

## Percolation Link: PC-118

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-118 | | |
| To Node: | GT-118 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 909.09 ft |

| | | | |
|---|---|---|---|
| Flow Direction: | Both | | |
| Aquifer Base Elevation: | 36.20 ft | Perimeter 2: | 1034.61 ft |
| Water Table Elevation: | 44.30 ft | Perimeter 3: | 1222.88 ft |
| Annual Recharge Rate: | 0 ipy | Distance P1 to P2: | 20.00 ft |
| Horizontal Conductivity: | 39.960 fpd | Distance P2 to P3: | 50.00 ft |
| Vertical Conductivity: | 19.980 fpd | # of Cells P1 to P2: | 4 |
| Fillable Porosity: | 0.250 | # of Cells P2 to P3: | 5 |
| Layer Thickness: | 1.90 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' = 46.2- 10= 36.2
WATER TABLE EL: SHWL =46.2
LAYER THICKNESS: 46.2-44.3=1.9
BORING : SH13- 450L

46.2

## Percolation Link: PC-119

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-119 | | |
| To Node: | GT-119 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 358.53 ft |
| Flow Direction: | Both | Perimeter 2: | 484.07 ft |
| Aquifer Base Elevation: | 73.00 ft | Perimeter 3: | 672.64 ft |
| Water Table Elevation: | 75.50 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 2.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 1.000 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 0.57 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' = 83- 10= 73
WATER TABLE EL: SHWL =75.5
LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTH ARE SAME EL) =74.93-75.5=0.57
BORING : SH13- 435R

## Percolation Link: PC-120

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-120 | | |
| To Node: | GT-120 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 211.75 ft |
| Flow Direction: | Both | Perimeter 2: | 337.28 ft |
| Aquifer Base Elevation: | 39.00 ft | Perimeter 3: | 525.89 ft |
| Water Table Elevation: | 49.00 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 45.000 fpd | # of Cells P1 to P2: | 4 |

| | | | |
|---|---|---|---|
| Vertical Conductivity: | 18.500 fpd | | |
| Fillable Porosity: | 0.250 | # of Cells P2 to P3: | 5 |
| Layer Thickness: | 0.00 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' =49- 10= 39
WATER TABLE EL: SHWL =49
LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTH ARE SAME EL) =0
BORING : SH13- 445R

**Percolation Link: PC-128**

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-128 | | |
| To Node: | GT-128 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 1208.12 ft |
| Flow Direction: | Both | Perimeter 2: | 1333.66 ft |
| Aquifer Base Elevation: | 34.80 ft | Perimeter 3: | 1521.97 ft |
| Water Table Elevation: | 43.30 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 12.000 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 6.000 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 5.19 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' =44.8- 10= 34.8
WATER TABLE EL: SHWL =43.3
LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTH ARE SAME EL) =38.11-43.3=5.19
BORING : SH14- 10010R

**Percolation Link: PC_126-1**

| | | | |
|---|---|---|---|
| Scenario: | Scenario1 | Surface Area Option: | Vary Based on Stage/Area Table |
| From Node: | N-126 | | |
| To Node: | GT-126 | Vertical Flow Termination: | Horizontal Flow Algorithm |
| Link Count: | 1 | Perimeter 1: | 1130.85 ft |
| Flow Direction: | Both | Perimeter 2: | 1224.52 ft |
| Aquifer Base Elevation: | 35.30 ft | Perimeter 3: | 1331.71 ft |
| Water Table Elevation: | 43.80 ft | Distance P1 to P2: | 20.00 ft |
| Annual Recharge Rate: | 0 ipy | Distance P2 to P3: | 50.00 ft |
| Horizontal Conductivity: | 11.900 fpd | # of Cells P1 to P2: | 4 |
| Vertical Conductivity: | 5.950 fpd | # of Cells P2 to P3: | 5 |
| Fillable Porosity: | 0.250 | | |
| Layer Thickness: | 1.50 ft | | |

Comment: AQUIFER BASE EL: SURFACE EL @ BORING-10' = 45.3- 10= 35.3
**WATER TABLE EL: SHGWT EL. 43.8
**LAYER THICKNESS: SA BOTTOM -SHWL (OR SHWL IF, BOTHN ARE SAME EL) = 45.3-43.8=1.5

SH13-470L

| Pipe Link: I-118 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Scenario1 | Invert: | 42.06 ft | Invert: | 41.65 ft |
| From Node: | N-118 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| To Node: | N-122 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | 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: | 51.56 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0130 | Manning's N: | 0.0130 |
| Exit Loss Coef: | 0.25 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 dec | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0130 | Manning's N: | 0.0130 |

Comment:

## Simulation: 100 YR-24 HR

Scenario: Scenario1
Run Date/Time: 4/28/2026 11:23:20 AM
Program Version: ICPR4 4.07.08

### General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.0000 |
| End Time: | 0 | 0 | 0 | 36.0000 |

| | Hydrology [sec] | Surface Hydraulics [sec] | Groundwater [sec] |
|---|---|---|---|
| Min Calculation Time: | 60.0000 | 0.0010 | 900.0000 |
| Max Calculation Time: | | 10.0000 | |

### 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 & Lookup Tables**

**Resources**

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

**Lookup Tables**

Boundary Stage Set: 100YR24HR
Extern Hydrograph Set: External Hydro
Curve Number Set: CN_1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: Impervious Set_1
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

**Tolerances & Options**

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0000 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0000 ft
Edge Length Option: Automatic
Dflt Damping (2D): 0.0050 ft
Min Node Srf Area (2D): 100 ft2
Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
ET for Manual Basins: False
Smp/Man Basin Rain Opt: Global
OF Region Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 9.20 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

**Simulation: 50 YR-24 HR**

Scenario: Scenario1
Run Date/Time: 4/28/2026 11:29:53 AM
Program Version: ICPR4 4.07.08

## General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.0000 |
| End Time: | 0 | 0 | 0 | 36.0000 |

| | Hydrology [sec] | Surface Hydraulics [sec] | Groundwater [sec] |
|---|---|---|---|
| Min Calculation Time: | 60.0000 | 0.0010 | 900.0000 |
| Max Calculation Time: | | 10.0000 | |

## 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 & Lookup Tables

### Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

### Lookup Tables

Boundary Stage Set: 100YR24HR
Extern Hydrograph Set: External Hydro
Curve Number Set: CN_1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: Impervious Set_1
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 Fact: | 0.5 dec | | |
| dZ Tolerance: | 0.0000 ft | Smp/Man Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | OF Region Rain Opt: | Global |
| Link Optimizer Tol: | 0.0000 ft | Rainfall Name: | ~FLMOD |
| | | Rainfall Amount: | 8.10 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 (2D): | 100 ft2 | Min Node Srf Area (1D): | 100 ft2 |
| Energy Switch (2D): | Energy | Energy Switch (1D): | Energy |

Comment:

## Simulation: 500 YR-24 HR

Scenario: Scenario1
Run Date/Time: 4/28/2026 11:36:23 AM
Program Version: ICPR4 4.07.08

### General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.0000 |
| End Time: | 0 | 0 | 0 | 36.0000 |

| | Hydrology [sec] | Surface Hydraulics [sec] | Groundwater [sec] |
|---|---|---|---|
| Min Calculation Time: | 60.0000 | 0.0010 | 900.0000 |
| Max Calculation Time: | | 10.0000 | |

### 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 & Lookup Tables

### Resources

Rainfall Folder:
Reference ET Folder:
Unit Hydrograph Folder:

### Lookup Tables

Boundary Stage Set: 100YR24HR
Extern Hydrograph Set: External Hydro
Curve Number Set: CN_1
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: Impervious Set_1
Roughness Set:
Crop Coef Set:
Fillable Porosity Set:
Conductivity Set:
Leakage Set:

## Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0000 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0000 ft
Edge Length Option: Automatic
Dflt Damping (2D): 0.0050 ft
Min Node Srf Area (2D): 100 ft2
Energy Switch (2D): Energy

IA Recovery Time: 24.0000 hr
ET for Manual Basins: False
Smp/Man Basin Rain Opt: Global
OF Region Rain Opt: Global
Rainfall Name: ~FLMOD
Rainfall Amount: 12.30 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

## Weir Cross Section: X-0010W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 136.02 |
| 1 | 1.98 | 136.03 |
| 2 | 3.96 | 136.05 |
| 3 | 5.94 | 136.06 |
| 4 | 7.92 | 136.01 |
| 5 | 9.90 | 135.99 |
| 6 | 11.88 | 135.96 |
| 7 | 13.87 | 135.93 |
| 8 | 15.85 | 135.93 |
| 9 | 17.83 | 135.90 |
| 10 | 19.81 | 135.87 |
| 11 | 21.79 | 135.82 |
| 12 | 23.77 | 135.75 |
| 13 | 25.75 | 135.70 |
| 14 | 27.73 | 135.68 |
| 15 | 29.71 | 135.63 |
| 16 | 31.69 | 135.57 |
| 17 | 33.67 | 135.54 |
| 18 | 35.65 | 135.51 |
| 19 | 37.63 | 135.46 |
| 20 | 39.62 | 135.42 |
| 21 | 41.60 | 135.40 |
| 22 | 43.58 | 135.35 |
| 23 | 45.56 | 135.31 |
| 24 | 47.54 | 135.28 |
| 25 | 49.52 | 135.26 |
| 26 | 51.50 | 135.25 |
| 27 | 53.48 | 135.21 |
| 28 | 55.46 | 135.21 |
| 29 | 57.44 | 135.15 |
| 30 | 59.42 | 135.10 |
| 31 | 61.40 | 135.05 |
| 32 | 63.38 | 135.01 |
| 33 | 65.37 | 135.01 |
| 34 | 67.35 | 134.98 |
| 35 | 69.33 | 134.93 |
| 36 | 71.31 | 134.89 |
| 37 | 73.29 | 134.84 |
| 38 | 75.27 | 134.79 |
| 39 | 77.25 | 134.75 |
| 40 | 79.23 | 134.71 |
| 41 | 81.21 | 134.67 |
| 42 | 83.19 | 134.63 |
| 43 | 85.17 | 134.57 |
| 44 | 87.15 | 134.55 |
| 45 | 89.13 | 134.52 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 46 | 91.12 | 134.45 |
| 47 | 93.10 | 134.48 |
| 48 | 95.08 | 134.46 |
| 49 | 97.06 | 134.44 |
| 50 | 99.04 | 134.42 |
| 51 | 101.02 | 134.42 |
| 52 | 103.00 | 134.34 |
| 53 | 104.98 | 134.31 |
| 54 | 106.96 | 134.28 |
| 55 | 108.94 | 134.27 |
| 56 | 110.92 | 134.28 |
| 57 | 112.90 | 134.22 |
| 58 | 114.88 | 134.19 |
| 59 | 116.87 | 134.17 |
| 60 | 118.85 | 134.15 |
| 61 | 120.83 | 134.13 |
| 62 | 122.81 | 134.09 |
| 63 | 124.79 | 134.06 |
| 64 | 126.77 | 134.03 |
| 65 | 128.36 | 134.00 |
| 66 | 129.95 | 133.97 |
| 67 | 131.54 | 133.93 |
| 68 | 133.13 | 133.91 |
| 69 | 134.72 | 133.91 |
| 70 | 136.31 | 133.92 |
| 71 | 137.90 | 133.91 |
| 72 | 139.49 | 133.88 |
| 73 | 141.08 | 133.85 |
| 74 | 142.67 | 133.81 |
| 75 | 144.26 | 133.80 |
| 76 | 145.85 | 133.82 |
| 77 | 147.44 | 133.71 |
| 78 | 149.03 | 133.65 |
| 79 | 150.63 | 133.67 |
| 80 | 152.22 | 133.64 |
| 81 | 153.81 | 133.60 |
| 82 | 155.40 | 133.59 |
| 83 | 156.99 | 133.60 |
| 84 | 158.58 | 133.62 |
| 85 | 160.17 | 133.57 |
| 86 | 161.76 | 133.50 |
| 87 | 163.35 | 133.42 |
| 88 | 164.94 | 133.44 |
| 89 | 166.53 | 133.44 |
| 90 | 168.12 | 133.42 |
| 91 | 169.71 | 133.41 |
| 92 | 171.30 | 133.39 |
| 93 | 172.89 | 133.33 |
| 94 | 174.48 | 133.34 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 95 | 176.07 | 133.36 |
| 96 | 177.66 | 133.32 |
| 97 | 179.25 | 133.27 |
| 98 | 180.84 | 133.21 |
| 99 | 182.43 | 133.23 |
| 100 | 184.02 | 133.23 |
| 101 | 185.61 | 133.21 |
| 102 | 187.20 | 133.16 |
| 103 | 188.80 | 133.11 |
| 104 | 190.39 | 133.11 |
| 105 | 191.98 | 133.07 |
| 106 | 193.57 | 133.03 |
| 107 | 195.16 | 133.00 |
| 108 | 196.75 | 132.97 |
| 109 | 198.34 | 132.96 |
| 110 | 199.93 | 132.96 |
| 111 | 201.52 | 132.95 |
| 112 | 203.11 | 132.91 |
| 113 | 204.70 | 132.89 |
| 114 | 206.29 | 132.87 |
| 115 | 207.88 | 132.87 |
| 116 | 209.47 | 132.85 |
| 117 | 211.06 | 132.82 |
| 118 | 212.65 | 132.78 |
| 119 | 214.24 | 132.74 |
| 120 | 215.83 | 132.72 |
| 121 | 217.42 | 132.71 |
| 122 | 219.01 | 132.71 |
| 123 | 220.60 | 132.72 |
| 124 | 222.19 | 132.69 |
| 125 | 223.78 | 132.65 |
| 126 | 225.37 | 132.62 |
| 127 | 226.96 | 132.61 |
| 128 | 228.56 | 132.59 |
| 129 | 230.15 | 132.55 |
| 130 | 231.74 | 132.53 |
| 131 | 233.33 | 132.53 |
| 132 | 234.92 | 132.52 |
| 133 | 236.51 | 132.51 |
| 134 | 238.10 | 132.47 |
| 135 | 239.69 | 132.43 |
| 136 | 241.28 | 132.40 |
| 137 | 242.87 | 132.42 |
| 138 | 244.46 | 132.43 |
| 139 | 246.05 | 132.45 |
| 140 | 247.64 | 132.48 |
| 141 | 249.23 | 132.45 |
| 142 | 250.82 | 132.38 |
| 143 | 252.41 | 132.36 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 144 | 254.00 | 132.34 |
| 145 | 255.59 | 132.29 |
| 146 | 257.18 | 132.26 |
| 147 | 258.77 | 132.22 |
| 148 | 260.36 | 132.20 |
| 149 | 261.95 | 132.17 |
| 150 | 263.54 | 132.14 |
| 151 | 265.13 | 132.14 |
| 152 | 266.73 | 132.12 |
| 153 | 268.32 | 132.07 |
| 154 | 269.91 | 132.02 |
| 155 | 271.50 | 131.99 |
| 156 | 273.09 | 132.01 |
| 157 | 274.68 | 131.98 |
| 158 | 276.27 | 131.95 |
| 159 | 277.86 | 131.92 |
| 160 | 279.45 | 131.90 |
| 161 | 281.04 | 131.89 |
| 162 | 282.63 | 131.82 |
| 163 | 284.22 | 131.79 |
| 164 | 285.81 | 131.78 |
| 165 | 287.40 | 131.76 |
| 166 | 288.99 | 131.73 |
| 167 | 290.58 | 131.71 |
| 168 | 292.17 | 131.69 |
| 169 | 293.76 | 131.66 |
| 170 | 295.35 | 131.64 |
| 171 | 296.94 | 131.62 |
| 172 | 298.53 | 131.59 |
| 173 | 300.12 | 131.56 |
| 174 | 301.71 | 131.54 |
| 175 | 303.30 | 131.53 |
| 176 | 304.89 | 131.49 |
| 177 | 306.49 | 131.45 |
| 178 | 308.08 | 131.43 |
| 179 | 309.67 | 131.42 |
| 180 | 311.26 | 131.41 |
| 181 | 312.85 | 131.39 |
| 182 | 314.44 | 131.36 |
| 183 | 316.03 | 131.34 |
| 184 | 317.62 | 131.32 |
| 185 | 319.21 | 131.30 |
| 186 | 320.80 | 131.27 |
| 187 | 322.39 | 131.23 |
| 188 | 323.98 | 131.20 |
| 189 | 325.57 | 131.18 |
| 190 | 327.16 | 131.16 |
| 191 | 328.75 | 131.14 |
| 192 | 330.34 | 131.11 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 193 | 332.69 | 131.08 |
| 194 | 335.04 | 131.04 |
| 195 | 337.39 | 131.02 |
| 196 | 339.74 | 130.99 |
| 197 | 342.08 | 130.95 |
| 198 | 344.43 | 130.89 |
| 199 | 346.78 | 130.85 |
| 200 | 349.13 | 130.82 |
| 201 | 351.48 | 130.79 |
| 202 | 353.83 | 130.74 |
| 203 | 356.17 | 130.72 |
| 204 | 358.52 | 130.67 |
| 205 | 360.87 | 130.67 |
| 206 | 363.22 | 130.64 |
| 207 | 365.57 | 130.58 |
| 208 | 367.92 | 130.57 |
| 209 | 370.27 | 130.54 |
| 210 | 372.61 | 130.51 |
| 211 | 374.96 | 130.48 |
| 212 | 377.31 | 130.43 |
| 213 | 379.66 | 130.37 |
| 214 | 382.01 | 130.32 |
| 215 | 384.36 | 130.26 |
| 216 | 386.70 | 130.23 |
| 217 | 389.05 | 130.22 |
| 218 | 391.40 | 130.18 |
| 219 | 393.75 | 130.15 |
| 220 | 396.10 | 130.12 |
| 221 | 398.45 | 130.10 |
| 222 | 400.80 | 130.05 |
| 223 | 403.14 | 130.01 |
| 224 | 405.49 | 129.99 |
| 225 | 407.84 | 129.95 |
| 226 | 410.19 | 129.92 |
| 227 | 412.54 | 129.90 |
| 228 | 414.89 | 129.85 |
| 229 | 417.23 | 129.80 |
| 230 | 419.58 | 129.78 |
| 231 | 421.93 | 129.75 |
| 232 | 424.28 | 129.71 |
| 233 | 426.63 | 129.67 |
| 234 | 428.98 | 129.61 |
| 235 | 431.33 | 129.58 |
| 236 | 433.67 | 129.60 |
| 237 | 436.02 | 129.56 |
| 238 | 438.37 | 129.52 |
| 239 | 440.72 | 129.49 |
| 240 | 443.07 | 129.48 |
| 241 | 445.42 | 129.44 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 242 | 447.77 | 129.40 |
| 243 | 450.11 | 129.38 |
| 244 | 452.46 | 129.34 |
| 245 | 454.81 | 129.27 |
| 246 | 457.16 | 129.23 |
| 247 | 459.51 | 129.21 |
| 248 | 461.86 | 129.21 |
| 249 | 464.20 | 129.20 |
| 250 | 466.55 | 129.16 |
| 251 | 468.90 | 129.11 |
| 252 | 471.25 | 129.06 |
| 253 | 473.60 | 129.02 |
| 254 | 475.95 | 129.05 |
| 255 | 478.30 | 129.04 |
| 256 | 480.64 | 128.99 |
| 257 | 482.38 | 128.96 |
| 258 | 484.12 | 128.93 |
| 259 | 485.85 | 128.90 |
| 260 | 487.59 | 128.89 |
| 261 | 489.33 | 128.87 |
| 262 | 491.07 | 128.86 |
| 263 | 492.80 | 128.84 |
| 264 | 494.54 | 128.80 |
| 265 | 496.28 | 128.76 |
| 266 | 498.01 | 128.74 |
| 267 | 499.75 | 128.72 |
| 268 | 501.49 | 128.68 |
| 269 | 503.23 | 128.64 |
| 270 | 504.96 | 128.61 |
| 271 | 506.70 | 128.58 |
| 272 | 508.44 | 128.55 |
| 273 | 510.59 | 128.56 |
| 274 | 512.73 | 128.53 |
| 275 | 514.88 | 128.49 |
| 276 | 517.03 | 128.48 |

Comment:

## Weir Cross Section: X-0020W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 119.13 |
| 1 | 2.13 | 119.20 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 2 | 4.27 | 119.33 |
| 3 | 6.40 | 119.22 |
| 4 | 8.53 | 119.13 |
| 5 | 10.66 | 119.08 |
| 6 | 12.80 | 118.92 |
| 7 | 14.93 | 118.91 |
| 8 | 17.06 | 118.87 |
| 9 | 19.20 | 118.82 |
| 10 | 21.33 | 118.86 |
| 11 | 23.46 | 118.89 |
| 12 | 25.59 | 118.84 |
| 13 | 27.73 | 118.82 |
| 14 | 29.86 | 118.88 |
| 15 | 31.99 | 118.89 |
| 16 | 34.13 | 118.92 |
| 17 | 36.26 | 119.07 |
| 18 | 38.39 | 119.24 |
| 19 | 40.53 | 119.32 |
| 20 | 42.66 | 119.36 |
| 21 | 44.79 | 119.37 |
| 22 | 46.92 | 119.30 |
| 23 | 49.06 | 119.19 |
| 24 | 51.19 | 119.10 |
| 25 | 53.32 | 119.02 |
| 26 | 55.46 | 119.08 |
| 27 | 57.59 | 119.06 |
| 28 | 59.72 | 118.99 |
| 29 | 61.85 | 118.91 |
| 30 | 63.99 | 118.96 |
| 31 | 66.12 | 118.92 |
| 32 | 68.25 | 118.84 |
| 33 | 70.39 | 118.81 |
| 34 | 72.52 | 118.82 |
| 35 | 74.65 | 118.88 |
| 36 | 76.78 | 119.08 |
| 37 | 78.92 | 119.31 |
| 38 | 81.05 | 119.35 |
| 39 | 83.18 | 119.23 |
| 40 | 85.32 | 119.17 |
| 41 | 87.45 | 119.04 |
| 42 | 89.58 | 118.79 |
| 43 | 91.71 | 118.65 |
| 44 | 93.85 | 118.57 |
| 45 | 95.98 | 118.51 |
| 46 | 98.11 | 118.44 |
| 47 | 100.25 | 118.35 |
| 48 | 102.38 | 118.22 |
| 49 | 104.51 | 118.16 |
| 50 | 106.64 | 118.17 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 51 | 108.78 | 118.11 |
| 52 | 110.91 | 117.95 |
| 53 | 113.04 | 117.86 |
| 54 | 115.18 | 117.85 |
| 55 | 117.31 | 117.86 |
| 56 | 119.44 | 117.97 |
| 57 | 121.58 | 118.12 |
| 58 | 123.71 | 117.90 |
| 59 | 125.84 | 117.72 |
| 60 | 127.97 | 117.60 |
| 61 | 130.11 | 117.47 |
| 62 | 132.24 | 117.28 |
| 63 | 134.37 | 117.10 |
| 64 | 136.51 | 116.89 |
| 65 | 138.64 | 116.69 |
| 66 | 140.77 | 116.38 |
| 67 | 142.90 | 116.03 |
| 68 | 145.04 | 115.69 |
| 69 | 147.17 | 115.56 |
| 70 | 149.30 | 115.58 |
| 71 | 151.44 | 115.49 |
| 72 | 153.57 | 115.32 |
| 73 | 155.70 | 115.23 |
| 74 | 157.83 | 115.16 |
| 75 | 159.97 | 115.18 |
| 76 | 162.10 | 115.14 |
| 77 | 164.23 | 114.96 |
| 78 | 166.37 | 114.90 |
| 79 | 168.50 | 114.90 |
| 80 | 170.63 | 114.83 |
| 81 | 172.76 | 114.68 |
| 82 | 174.90 | 114.55 |
| 83 | 177.03 | 114.36 |
| 84 | 179.16 | 114.18 |
| 85 | 181.30 | 113.90 |
| 86 | 183.43 | 113.61 |
| 87 | 185.56 | 113.49 |
| 88 | 187.70 | 113.49 |
| 89 | 189.83 | 113.43 |
| 90 | 191.96 | 113.40 |
| 91 | 194.09 | 113.32 |
| 92 | 196.23 | 113.17 |
| 93 | 198.36 | 113.11 |
| 94 | 200.49 | 113.09 |
| 95 | 202.63 | 113.04 |
| 96 | 204.76 | 112.94 |
| 97 | 206.89 | 112.92 |
| 98 | 209.02 | 112.95 |
| 99 | 211.16 | 112.99 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 100 | 213.29 | 112.87 |
| 101 | 215.42 | 112.90 |
| 102 | 217.56 | 112.98 |
| 103 | 219.69 | 113.03 |
| 104 | 221.82 | 113.03 |
| 105 | 223.95 | 113.02 |
| 106 | 226.09 | 112.97 |
| 107 | 228.22 | 112.80 |
| 108 | 230.35 | 112.60 |
| 109 | 232.49 | 112.56 |
| 110 | 234.62 | 112.63 |
| 111 | 236.75 | 112.74 |
| 112 | 238.88 | 112.82 |
| 113 | 241.02 | 112.94 |
| 114 | 243.15 | 113.09 |
| 115 | 245.28 | 113.14 |
| 116 | 247.42 | 113.14 |
| 117 | 249.55 | 113.32 |
| 118 | 251.68 | 113.46 |
| 119 | 253.82 | 113.49 |
| 120 | 255.95 | 113.63 |
| 121 | 258.08 | 113.71 |
| 122 | 260.21 | 113.80 |
| 123 | 262.35 | 113.91 |
| 124 | 264.48 | 113.96 |
| 125 | 266.61 | 113.98 |
| 126 | 268.75 | 113.95 |
| 127 | 270.88 | 113.96 |
| 128 | 273.01 | 113.94 |
| 129 | 275.24 | 113.97 |
| 130 | 277.48 | 114.09 |
| 131 | 279.71 | 114.27 |
| 132 | 281.95 | 114.43 |
| 133 | 284.18 | 114.49 |
| 134 | 286.41 | 114.49 |
| 135 | 288.65 | 114.46 |
| 136 | 290.88 | 114.49 |
| 137 | 293.11 | 114.74 |
| 138 | 295.35 | 114.86 |
| 139 | 297.58 | 114.86 |
| 140 | 299.81 | 114.88 |
| 141 | 302.05 | 114.87 |
| 142 | 304.28 | 114.85 |
| 143 | 306.52 | 114.92 |
| 144 | 308.75 | 115.04 |
| 145 | 310.98 | 115.18 |
| 146 | 313.22 | 115.22 |
| 147 | 315.45 | 115.29 |
| 148 | 317.68 | 115.34 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 149 | 319.92 | 115.22 |
| 150 | 322.15 | 115.04 |
| 151 | 324.38 | 115.19 |
| 152 | 326.62 | 115.31 |
| 153 | 328.85 | 115.33 |
| 154 | 331.08 | 115.32 |
| 155 | 333.32 | 115.28 |
| 156 | 335.55 | 115.28 |
| 157 | 337.79 | 115.34 |
| 158 | 340.02 | 115.42 |
| 159 | 342.25 | 115.48 |
| 160 | 344.49 | 115.54 |
| 161 | 346.72 | 115.56 |
| 162 | 348.95 | 115.60 |
| 163 | 351.19 | 115.67 |
| 164 | 353.42 | 115.71 |
| 165 | 355.65 | 115.72 |
| 166 | 357.89 | 115.75 |
| 167 | 360.12 | 115.73 |
| 168 | 362.36 | 115.72 |
| 169 | 364.59 | 115.75 |
| 170 | 366.82 | 115.84 |
| 171 | 369.06 | 115.95 |
| 172 | 371.29 | 116.07 |
| 173 | 373.52 | 116.24 |
| 174 | 375.76 | 116.31 |
| 175 | 377.99 | 116.41 |
| 176 | 380.22 | 116.51 |
| 177 | 382.46 | 116.56 |
| 178 | 384.69 | 116.50 |
| 179 | 386.92 | 116.37 |
| 180 | 389.16 | 116.16 |
| 181 | 391.39 | 115.92 |
| 182 | 393.63 | 115.67 |
| 183 | 395.86 | 115.61 |
| 184 | 398.09 | 115.55 |
| 185 | 400.33 | 115.58 |
| 186 | 402.56 | 116.26 |
| 187 | 404.79 | 116.93 |
| 188 | 407.03 | 117.22 |
| 189 | 409.26 | 117.43 |
| 190 | 411.49 | 117.53 |
| 191 | 413.73 | 117.61 |
| 192 | 415.96 | 117.69 |
| 193 | 418.32 | 117.76 |
| 194 | 420.67 | 117.65 |
| 195 | 423.02 | 117.62 |
| 196 | 425.38 | 117.56 |
| 197 | 427.73 | 117.47 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 198 | 430.09 | 117.39 |
| 199 | 432.44 | 117.45 |
| 200 | 434.80 | 117.59 |
| 201 | 437.15 | 117.62 |
| 202 | 439.51 | 117.39 |
| 203 | 441.86 | 117.00 |
| 204 | 444.21 | 116.57 |
| 205 | 446.57 | 116.07 |
| 206 | 448.92 | 115.46 |
| 207 | 451.28 | 114.92 |
| 208 | 453.63 | 114.21 |
| 209 | 455.47 | 113.39 |
| 210 | 457.31 | 112.65 |
| 211 | 459.14 | 111.97 |
| 212 | 460.98 | 111.31 |
| 213 | 462.82 | 110.92 |
| 214 | 464.65 | 110.67 |
| 215 | 466.49 | 110.55 |
| 216 | 468.33 | 110.50 |
| 217 | 470.16 | 110.52 |
| 218 | 472.00 | 110.62 |
| 219 | 473.84 | 110.77 |
| 220 | 475.67 | 111.10 |
| 221 | 477.51 | 111.43 |
| 222 | 479.35 | 111.78 |
| 223 | 481.18 | 112.17 |
| 224 | 483.02 | 112.56 |
| 225 | 484.86 | 112.93 |
| 226 | 486.69 | 113.29 |
| 227 | 488.53 | 113.65 |
| 228 | 490.37 | 113.90 |
| 229 | 492.20 | 114.06 |
| 230 | 494.04 | 114.13 |
| 231 | 495.88 | 114.24 |
| 232 | 497.71 | 114.30 |
| 233 | 499.55 | 114.31 |
| 234 | 501.39 | 114.30 |
| 235 | 503.22 | 114.29 |
| 236 | 505.06 | 114.27 |
| 237 | 506.90 | 114.25 |
| 238 | 508.73 | 114.22 |
| 239 | 510.57 | 114.20 |
| 240 | 512.41 | 114.18 |

Comment:

## Weir Cross Section: X-0040W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 49.91 |
| 1 | 1.75 | 49.93 |
| 2 | 3.50 | 49.95 |
| 3 | 5.26 | 49.92 |
| 4 | 7.01 | 49.88 |
| 5 | 8.76 | 49.80 |
| 6 | 10.51 | 49.75 |
| 7 | 12.27 | 49.71 |
| 8 | 14.02 | 49.67 |
| 9 | 15.77 | 49.59 |
| 10 | 17.52 | 49.51 |
| 11 | 19.27 | 49.41 |
| 12 | 21.03 | 49.27 |
| 13 | 22.78 | 49.15 |
| 14 | 24.53 | 49.03 |
| 15 | 26.28 | 48.89 |
| 16 | 28.04 | 48.79 |
| 17 | 29.79 | 48.71 |
| 18 | 31.54 | 48.65 |
| 19 | 33.29 | 48.58 |
| 20 | 35.05 | 48.50 |
| 21 | 36.80 | 48.44 |
| 22 | 38.55 | 48.39 |
| 23 | 40.30 | 48.33 |
| 24 | 42.05 | 48.27 |
| 25 | 43.81 | 48.21 |
| 26 | 45.56 | 48.15 |
| 27 | 47.31 | 48.09 |
| 28 | 49.06 | 48.03 |
| 29 | 50.82 | 47.97 |
| 30 | 52.57 | 47.93 |
| 31 | 54.32 | 47.89 |
| 32 | 56.07 | 47.83 |
| 33 | 57.57 | 47.81 |
| 34 | 59.08 | 47.78 |
| 35 | 60.58 | 47.70 |
| 36 | 62.08 | 47.66 |
| 37 | 63.58 | 47.66 |
| 38 | 65.08 | 47.65 |
| 39 | 66.59 | 47.65 |
| 40 | 68.09 | 47.72 |
| 41 | 69.59 | 47.77 |
| 42 | 71.09 | 47.76 |
| 43 | 72.59 | 47.78 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 44 | 74.10 | 47.81 |
| 45 | 75.60 | 47.83 |
| 46 | 77.10 | 47.85 |
| 47 | 78.60 | 47.86 |
| 48 | 80.11 | 47.85 |

Comment:

## Weir Cross Section: X-0050W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 128.48 |
| 1 | 1.80 | 128.63 |
| 2 | 3.60 | 128.66 |
| 3 | 5.40 | 128.66 |
| 4 | 7.20 | 128.68 |
| 5 | 8.99 | 128.77 |
| 6 | 10.79 | 128.84 |
| 7 | 12.59 | 128.87 |
| 8 | 14.39 | 128.85 |
| 9 | 16.19 | 128.81 |
| 10 | 17.99 | 128.80 |
| 11 | 19.79 | 128.83 |
| 12 | 21.59 | 128.89 |
| 13 | 23.39 | 128.92 |
| 14 | 25.18 | 128.94 |
| 15 | 26.98 | 128.99 |
| 16 | 28.78 | 128.99 |
| 17 | 30.58 | 128.96 |
| 18 | 32.38 | 128.90 |
| 19 | 34.18 | 128.92 |
| 20 | 35.98 | 128.92 |
| 21 | 37.78 | 128.88 |
| 22 | 39.57 | 128.78 |
| 23 | 41.37 | 128.56 |
| 24 | 43.17 | 128.31 |
| 25 | 44.97 | 128.05 |
| 26 | 46.77 | 127.80 |
| 27 | 48.57 | 127.52 |
| 28 | 50.37 | 127.25 |
| 29 | 52.17 | 127.05 |
| 30 | 53.97 | 126.88 |
| 31 | 55.76 | 126.72 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 32 | 57.56 | 126.54 |
| 33 | 59.31 | 126.33 |
| 34 | 61.06 | 126.14 |
| 35 | 62.81 | 125.97 |
| 36 | 64.56 | 125.84 |
| 37 | 66.30 | 125.76 |
| 38 | 68.05 | 125.69 |
| 39 | 69.80 | 125.58 |
| 40 | 71.55 | 125.54 |
| 41 | 73.30 | 125.56 |
| 42 | 75.05 | 125.67 |
| 43 | 76.80 | 125.79 |
| 44 | 78.54 | 125.93 |
| 45 | 80.29 | 126.15 |
| 46 | 82.04 | 126.18 |
| 47 | 83.79 | 126.14 |
| 48 | 85.54 | 126.06 |
| 49 | 87.75 | 126.13 |
| 50 | 89.97 | 126.23 |
| 51 | 92.18 | 126.31 |
| 52 | 94.39 | 126.31 |
| 53 | 96.61 | 126.33 |
| 54 | 98.82 | 126.45 |
| 55 | 101.04 | 126.36 |
| 56 | 103.25 | 126.35 |
| 57 | 105.47 | 126.32 |
| 58 | 107.68 | 126.33 |
| 59 | 109.89 | 126.37 |
| 60 | 112.11 | 126.37 |
| 61 | 114.32 | 126.34 |
| 62 | 116.54 | 126.41 |
| 63 | 118.75 | 126.41 |
| 64 | 120.97 | 126.40 |
| 65 | 122.35 | 126.40 |
| 66 | 123.73 | 126.39 |
| 67 | 125.11 | 126.39 |
| 68 | 126.49 | 126.38 |
| 69 | 127.87 | 126.36 |
| 70 | 129.25 | 126.35 |
| 71 | 130.63 | 126.35 |
| 72 | 132.01 | 126.33 |
| 73 | 133.39 | 126.28 |
| 74 | 134.77 | 126.26 |
| 75 | 136.15 | 126.28 |
| 76 | 137.53 | 126.30 |
| 77 | 138.91 | 126.30 |
| 78 | 140.29 | 126.30 |
| 79 | 141.67 | 126.30 |
| 80 | 143.05 | 126.27 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 81 | 144.43 | 126.25 |
| 82 | 145.81 | 126.28 |
| 83 | 147.19 | 126.31 |
| 84 | 148.57 | 126.31 |
| 85 | 149.95 | 126.32 |
| 86 | 151.33 | 126.35 |
| 87 | 152.71 | 126.35 |
| 88 | 154.09 | 126.34 |
| 89 | 155.48 | 126.36 |
| 90 | 156.86 | 126.38 |
| 91 | 158.24 | 126.38 |
| 92 | 159.62 | 126.38 |
| 93 | 161.00 | 126.37 |
| 94 | 162.38 | 126.35 |
| 95 | 163.76 | 126.36 |
| 96 | 165.14 | 126.37 |
| 97 | 166.49 | 126.38 |
| 98 | 167.85 | 126.39 |
| 99 | 169.20 | 126.39 |
| 100 | 170.56 | 126.45 |
| 101 | 171.91 | 126.52 |
| 102 | 173.27 | 126.57 |
| 103 | 174.63 | 126.63 |
| 104 | 175.98 | 126.70 |
| 105 | 177.34 | 126.77 |
| 106 | 178.69 | 126.87 |
| 107 | 180.05 | 126.96 |
| 108 | 181.40 | 127.05 |
| 109 | 182.76 | 127.14 |
| 110 | 184.11 | 127.21 |
| 111 | 185.47 | 127.27 |
| 112 | 186.82 | 127.30 |
| 113 | 188.18 | 127.31 |
| 114 | 189.53 | 127.32 |
| 115 | 190.89 | 127.43 |
| 116 | 192.24 | 127.59 |
| 117 | 193.60 | 127.63 |
| 118 | 194.96 | 127.66 |
| 119 | 196.31 | 127.63 |
| 120 | 197.67 | 127.60 |
| 121 | 199.02 | 127.55 |
| 122 | 200.38 | 127.51 |
| 123 | 201.73 | 127.50 |
| 124 | 203.09 | 127.50 |
| 125 | 204.44 | 127.55 |
| 126 | 205.80 | 127.61 |
| 127 | 207.15 | 127.65 |
| 128 | 208.51 | 127.67 |
| 129 | 211.00 | 127.70 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 130 | 213.49 | 127.70 |
| 131 | 215.98 | 127.69 |
| 132 | 218.47 | 127.71 |
| 133 | 220.96 | 127.76 |
| 134 | 223.45 | 127.83 |
| 135 | 225.94 | 127.92 |
| 136 | 228.43 | 127.95 |
| 137 | 230.92 | 127.87 |
| 138 | 233.41 | 127.71 |
| 139 | 235.90 | 127.67 |
| 140 | 238.39 | 127.71 |
| 141 | 240.88 | 127.71 |
| 142 | 243.37 | 127.70 |
| 143 | 245.86 | 127.74 |
| 144 | 248.35 | 127.73 |
| 145 | 250.84 | 127.82 |
| 146 | 253.34 | 127.86 |
| 147 | 255.83 | 127.90 |
| 148 | 258.32 | 127.91 |
| 149 | 260.81 | 127.95 |
| 150 | 263.30 | 127.90 |
| 151 | 265.79 | 127.91 |
| 152 | 268.28 | 127.95 |
| 153 | 270.77 | 127.96 |
| 154 | 273.26 | 128.00 |
| 155 | 275.75 | 127.97 |
| 156 | 278.24 | 128.00 |
| 157 | 280.73 | 128.05 |
| 158 | 283.22 | 128.04 |
| 159 | 285.71 | 128.12 |
| 160 | 288.20 | 128.20 |
| 161 | 290.33 | 128.25 |
| 162 | 292.45 | 128.29 |
| 163 | 294.58 | 128.31 |
| 164 | 296.70 | 128.34 |
| 165 | 298.83 | 128.36 |
| 166 | 300.96 | 128.37 |
| 167 | 303.08 | 128.37 |
| 168 | 305.21 | 128.42 |
| 169 | 307.33 | 128.48 |
| 170 | 309.46 | 128.51 |
| 171 | 311.59 | 128.52 |
| 172 | 313.71 | 128.54 |
| 173 | 315.84 | 128.58 |
| 174 | 317.96 | 128.60 |
| 175 | 320.09 | 128.67 |
| 176 | 322.22 | 128.73 |
| 177 | 324.34 | 128.78 |
| 178 | 326.47 | 128.84 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 179 | 328.59 | 128.91 |
| 180 | 330.72 | 129.00 |
| 181 | 332.85 | 129.05 |
| 182 | 334.97 | 129.12 |
| 183 | 337.10 | 129.15 |
| 184 | 339.22 | 129.22 |
| 185 | 341.35 | 129.30 |
| 186 | 343.47 | 129.36 |
| 187 | 345.60 | 129.40 |
| 188 | 347.73 | 129.48 |
| 189 | 349.85 | 129.52 |
| 190 | 351.98 | 129.58 |
| 191 | 354.10 | 129.62 |
| 192 | 356.23 | 129.66 |
| 193 | 358.36 | 129.74 |
| 194 | 360.48 | 129.82 |
| 195 | 362.61 | 129.86 |
| 196 | 364.73 | 129.91 |
| 197 | 366.86 | 129.98 |
| 198 | 368.99 | 130.04 |
| 199 | 371.11 | 130.10 |
| 200 | 373.24 | 130.16 |
| 201 | 375.36 | 130.21 |
| 202 | 377.49 | 130.30 |
| 203 | 379.62 | 130.40 |
| 204 | 381.74 | 130.49 |
| 205 | 383.87 | 130.59 |
| 206 | 385.99 | 130.66 |
| 207 | 388.12 | 130.71 |
| 208 | 390.25 | 130.78 |
| 209 | 392.37 | 130.84 |
| 210 | 394.50 | 130.91 |
| 211 | 396.62 | 130.98 |
| 212 | 398.75 | 131.04 |
| 213 | 400.88 | 131.09 |
| 214 | 403.00 | 131.14 |
| 215 | 405.13 | 131.21 |
| 216 | 407.25 | 131.28 |
| 217 | 409.38 | 131.34 |
| 218 | 411.51 | 131.40 |
| 219 | 413.63 | 131.45 |
| 220 | 415.76 | 131.48 |
| 221 | 417.88 | 131.55 |
| 222 | 420.01 | 131.66 |
| 223 | 422.14 | 131.72 |
| 224 | 424.26 | 131.83 |
| 225 | 425.94 | 131.92 |
| 226 | 427.63 | 132.01 |
| 227 | 429.31 | 132.09 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 228 | 430.99 | 132.17 |
| 229 | 432.68 | 132.24 |
| 230 | 434.36 | 132.31 |
| 231 | 436.04 | 132.35 |
| 232 | 437.73 | 132.35 |
| 233 | 439.41 | 132.40 |
| 234 | 441.09 | 132.46 |
| 235 | 442.78 | 132.52 |
| 236 | 444.46 | 132.58 |
| 237 | 446.14 | 132.62 |
| 238 | 447.83 | 132.64 |
| 239 | 449.51 | 132.69 |
| 240 | 451.19 | 132.74 |
| 241 | 452.88 | 132.77 |
| 242 | 454.56 | 132.86 |
| 243 | 456.24 | 132.87 |
| 244 | 457.92 | 132.83 |
| 245 | 459.61 | 132.88 |
| 246 | 461.29 | 132.92 |
| 247 | 462.97 | 132.96 |
| 248 | 464.66 | 132.97 |
| 249 | 466.34 | 132.95 |
| 250 | 468.02 | 132.92 |
| 251 | 469.71 | 132.85 |
| 252 | 471.39 | 132.80 |
| 253 | 473.07 | 132.77 |
| 254 | 474.76 | 132.72 |
| 255 | 476.44 | 132.72 |
| 256 | 478.12 | 132.74 |
| 257 | 480.10 | 132.76 |
| 258 | 482.07 | 132.74 |
| 259 | 484.04 | 132.80 |
| 260 | 486.02 | 132.85 |
| 261 | 487.99 | 132.89 |
| 262 | 489.97 | 132.91 |
| 263 | 491.94 | 132.91 |
| 264 | 493.91 | 132.93 |
| 265 | 495.89 | 132.92 |
| 266 | 497.86 | 132.93 |
| 267 | 499.84 | 133.00 |
| 268 | 501.81 | 133.04 |
| 269 | 503.78 | 133.05 |
| 270 | 505.76 | 133.04 |
| 271 | 507.73 | 133.05 |
| 272 | 509.71 | 133.13 |

Comment:

## Weir Cross Section: X-0070W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 127.16 |
| 1 | 2.44 | 126.30 |
| 2 | 4.88 | 125.94 |
| 3 | 7.32 | 125.95 |
| 4 | 9.76 | 125.98 |
| 5 | 12.20 | 126.02 |
| 6 | 14.64 | 126.08 |
| 7 | 17.08 | 126.15 |
| 8 | 19.52 | 126.19 |
| 9 | 21.96 | 126.24 |
| 10 | 24.40 | 126.29 |
| 11 | 26.84 | 126.35 |
| 12 | 29.28 | 126.49 |
| 13 | 31.72 | 126.61 |
| 14 | 34.16 | 126.70 |
| 15 | 36.60 | 126.73 |
| 16 | 39.04 | 126.72 |
| 17 | 41.44 | 126.77 |
| 18 | 43.84 | 126.81 |
| 19 | 46.23 | 126.94 |
| 20 | 48.63 | 127.01 |
| 21 | 51.03 | 126.98 |
| 22 | 53.42 | 126.94 |
| 23 | 55.82 | 126.89 |
| 24 | 58.22 | 126.89 |
| 25 | 60.61 | 126.97 |
| 26 | 63.01 | 127.02 |
| 27 | 65.41 | 127.03 |
| 28 | 67.80 | 127.07 |
| 29 | 70.20 | 127.23 |
| 30 | 72.60 | 127.50 |
| 31 | 74.99 | 127.59 |
| 32 | 77.39 | 127.71 |
| 33 | 79.82 | 127.83 |
| 34 | 82.26 | 127.96 |
| 35 | 84.69 | 128.03 |
| 36 | 87.13 | 127.91 |
| 37 | 89.56 | 127.88 |
| 38 | 91.99 | 128.01 |
| 39 | 94.43 | 128.16 |
| 40 | 96.86 | 128.37 |
| 41 | 99.30 | 128.46 |
| 42 | 101.73 | 128.50 |
| 43 | 104.16 | 128.38 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 44 | 106.60 | 128.21 |
| 45 | 109.03 | 128.18 |
| 46 | 111.47 | 128.36 |
| 47 | 113.90 | 128.44 |
| 48 | 116.33 | 128.28 |
| 49 | 118.77 | 128.02 |
| 50 | 121.20 | 127.74 |
| 51 | 123.63 | 127.42 |
| 52 | 126.07 | 127.12 |
| 53 | 128.50 | 126.82 |
| 54 | 130.94 | 126.37 |
| 55 | 133.37 | 126.00 |
| 56 | 135.80 | 125.86 |
| 57 | 138.24 | 125.81 |
| 58 | 140.67 | 125.78 |
| 59 | 143.11 | 125.78 |
| 60 | 145.54 | 125.85 |
| 61 | 147.97 | 125.86 |
| 62 | 150.41 | 125.91 |
| 63 | 152.84 | 125.87 |
| 64 | 155.28 | 125.84 |
| 65 | 156.68 | 125.82 |
| 66 | 158.09 | 125.79 |
| 67 | 159.50 | 125.76 |
| 68 | 160.91 | 125.76 |
| 69 | 162.32 | 125.77 |
| 70 | 163.73 | 125.82 |
| 71 | 165.14 | 125.87 |
| 72 | 166.54 | 125.90 |
| 73 | 167.95 | 125.94 |
| 74 | 169.36 | 125.96 |
| 75 | 170.77 | 125.98 |
| 76 | 172.18 | 126.01 |
| 77 | 173.59 | 126.05 |
| 78 | 175.00 | 126.11 |
| 79 | 176.40 | 126.20 |
| 80 | 177.81 | 126.29 |
| 81 | 179.22 | 126.40 |
| 82 | 180.63 | 126.53 |
| 83 | 182.04 | 126.69 |
| 84 | 183.45 | 126.79 |
| 85 | 184.86 | 126.85 |
| 86 | 186.26 | 126.87 |
| 87 | 187.67 | 126.89 |
| 88 | 189.08 | 126.98 |
| 89 | 190.49 | 127.06 |
| 90 | 191.90 | 127.13 |
| 91 | 193.31 | 127.21 |
| 92 | 194.72 | 127.28 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 93 | 196.12 | 127.35 |
| 94 | 197.53 | 127.41 |
| 95 | 198.94 | 127.37 |
| 96 | 200.35 | 127.33 |
| 97 | 202.37 | 127.35 |
| 98 | 204.40 | 127.32 |
| 99 | 206.42 | 127.24 |
| 100 | 208.44 | 127.10 |
| 101 | 210.46 | 126.94 |
| 102 | 212.49 | 126.70 |
| 103 | 214.51 | 126.43 |
| 104 | 216.53 | 126.15 |
| 105 | 218.56 | 125.95 |
| 106 | 220.58 | 125.82 |
| 107 | 222.60 | 125.63 |
| 108 | 224.63 | 125.44 |
| 109 | 226.65 | 125.34 |
| 110 | 228.67 | 125.31 |
| 111 | 230.69 | 125.37 |
| 112 | 232.72 | 125.48 |
| 113 | 234.74 | 125.61 |
| 114 | 236.76 | 125.62 |
| 115 | 238.79 | 125.59 |
| 116 | 240.81 | 125.56 |
| 117 | 242.83 | 125.54 |
| 118 | 244.85 | 125.37 |
| 119 | 246.88 | 125.15 |
| 120 | 248.90 | 124.92 |
| 121 | 250.92 | 124.73 |
| 122 | 252.95 | 124.66 |
| 123 | 254.97 | 124.58 |
| 124 | 256.99 | 124.49 |
| 125 | 259.01 | 124.49 |
| 126 | 261.04 | 124.49 |
| 127 | 263.06 | 124.49 |
| 128 | 265.08 | 124.48 |
| 129 | 267.11 | 124.46 |
| 130 | 269.13 | 124.41 |
| 131 | 271.15 | 124.37 |
| 132 | 273.17 | 124.33 |
| 133 | 275.20 | 124.31 |
| 134 | 277.22 | 124.32 |
| 135 | 279.24 | 124.29 |
| 136 | 281.27 | 124.24 |
| 137 | 283.29 | 124.18 |
| 138 | 285.31 | 124.14 |
| 139 | 287.34 | 124.09 |
| 140 | 289.36 | 124.05 |
| 141 | 291.38 | 124.00 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 142 | 293.40 | 123.95 |
| 143 | 295.43 | 123.91 |
| 144 | 297.45 | 123.90 |
| 145 | 299.47 | 123.88 |
| 146 | 301.50 | 123.85 |
| 147 | 303.52 | 123.84 |
| 148 | 305.54 | 123.83 |
| 149 | 307.56 | 123.83 |
| 150 | 309.59 | 123.84 |
| 151 | 311.61 | 123.86 |
| 152 | 313.63 | 123.84 |
| 153 | 315.66 | 123.84 |
| 154 | 317.68 | 123.82 |
| 155 | 319.70 | 123.80 |
| 156 | 321.72 | 123.79 |
| 157 | 323.75 | 123.77 |
| 158 | 325.77 | 123.74 |
| 159 | 327.79 | 123.71 |
| 160 | 329.82 | 123.73 |
| 161 | 331.84 | 123.71 |
| 162 | 333.86 | 123.70 |
| 163 | 335.88 | 123.68 |
| 164 | 337.91 | 123.63 |
| 165 | 339.93 | 123.60 |
| 166 | 341.95 | 123.56 |
| 167 | 343.98 | 123.52 |
| 168 | 346.00 | 123.47 |
| 169 | 348.02 | 123.44 |
| 170 | 350.05 | 123.41 |
| 171 | 352.07 | 123.40 |
| 172 | 354.09 | 123.38 |
| 173 | 356.11 | 123.35 |
| 174 | 358.14 | 123.32 |
| 175 | 360.16 | 123.31 |
| 176 | 362.18 | 123.27 |
| 177 | 364.21 | 123.26 |
| 178 | 366.23 | 123.25 |
| 179 | 368.25 | 123.25 |
| 180 | 370.27 | 123.21 |
| 181 | 372.30 | 123.20 |
| 182 | 374.32 | 123.20 |
| 183 | 376.34 | 123.19 |
| 184 | 378.37 | 123.18 |
| 185 | 380.39 | 123.17 |
| 186 | 382.41 | 123.16 |
| 187 | 384.43 | 123.15 |
| 188 | 386.46 | 123.15 |
| 189 | 388.48 | 123.14 |
| 190 | 390.50 | 123.13 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 191 | 392.53 | 123.12 |
| 192 | 394.55 | 123.12 |
| 193 | 396.57 | 123.11 |
| 194 | 398.59 | 123.09 |
| 195 | 400.62 | 123.05 |
| 196 | 402.64 | 123.01 |
| 197 | 404.66 | 123.01 |
| 198 | 406.69 | 122.99 |
| 199 | 408.71 | 122.96 |
| 200 | 410.73 | 122.92 |
| 201 | 412.75 | 122.86 |
| 202 | 414.78 | 122.81 |
| 203 | 416.80 | 122.76 |
| 204 | 418.82 | 122.72 |
| 205 | 420.85 | 122.66 |
| 206 | 422.87 | 122.60 |
| 207 | 424.89 | 122.52 |
| 208 | 426.92 | 122.49 |
| 209 | 428.94 | 122.47 |
| 210 | 430.96 | 122.41 |
| 211 | 432.98 | 122.34 |
| 212 | 435.01 | 122.29 |
| 213 | 437.03 | 122.25 |
| 214 | 439.05 | 122.22 |
| 215 | 441.08 | 122.19 |
| 216 | 443.10 | 122.16 |
| 217 | 445.12 | 122.17 |
| 218 | 447.14 | 122.17 |
| 219 | 449.17 | 122.17 |
| 220 | 451.19 | 122.19 |
| 221 | 453.21 | 122.23 |
| 222 | 455.24 | 122.22 |
| 223 | 457.26 | 122.18 |
| 224 | 459.28 | 122.15 |
| 225 | 460.65 | 122.13 |
| 226 | 462.03 | 122.09 |
| 227 | 463.40 | 122.05 |
| 228 | 464.77 | 122.01 |
| 229 | 466.14 | 121.98 |
| 230 | 467.51 | 121.96 |
| 231 | 468.88 | 121.93 |
| 232 | 470.26 | 121.90 |
| 233 | 471.63 | 121.88 |
| 234 | 473.00 | 121.86 |
| 235 | 474.37 | 121.86 |
| 236 | 475.74 | 121.85 |
| 237 | 477.11 | 121.85 |
| 238 | 478.49 | 121.84 |
| 239 | 479.86 | 121.87 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 240 | 481.23 | 121.88 |
| 241 | 482.60 | 121.89 |
| 242 | 483.97 | 121.89 |
| 243 | 485.34 | 121.89 |
| 244 | 486.72 | 121.88 |
| 245 | 488.09 | 121.86 |
| 246 | 489.46 | 121.84 |
| 247 | 490.83 | 121.82 |
| 248 | 492.20 | 121.82 |
| 249 | 493.58 | 121.83 |
| 250 | 494.95 | 121.82 |
| 251 | 496.32 | 121.83 |
| 252 | 497.69 | 121.83 |
| 253 | 499.06 | 121.83 |
| 254 | 500.43 | 121.81 |
| 255 | 501.81 | 121.80 |
| 256 | 503.18 | 121.80 |
| 257 | 504.55 | 121.80 |
| 258 | 505.92 | 121.80 |
| 259 | 507.29 | 121.79 |
| 260 | 508.66 | 121.79 |
| 261 | 510.04 | 121.80 |
| 262 | 511.41 | 121.81 |
| 263 | 512.78 | 121.79 |
| 264 | 514.15 | 121.79 |
| 265 | 515.52 | 121.79 |
| 266 | 516.89 | 121.78 |
| 267 | 518.27 | 121.76 |
| 268 | 519.64 | 121.76 |
| 269 | 521.01 | 121.76 |
| 270 | 522.38 | 121.76 |
| 271 | 523.75 | 121.77 |
| 272 | 525.13 | 121.78 |
| 273 | 526.50 | 121.78 |
| 274 | 527.87 | 121.75 |
| 275 | 529.24 | 121.74 |
| 276 | 530.61 | 121.74 |
| 277 | 531.98 | 121.74 |
| 278 | 533.36 | 121.75 |
| 279 | 534.73 | 121.75 |
| 280 | 536.10 | 121.76 |
| 281 | 537.47 | 121.79 |
| 282 | 538.84 | 121.81 |
| 283 | 540.21 | 121.82 |
| 284 | 541.59 | 121.82 |
| 285 | 542.96 | 121.82 |
| 286 | 544.33 | 121.82 |
| 287 | 545.70 | 121.83 |
| 288 | 547.07 | 121.81 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 289 | 548.44 | 121.79 |
| 290 | 549.82 | 121.74 |
| 291 | 551.19 | 121.71 |
| 292 | 552.56 | 121.75 |
| 293 | 553.93 | 121.78 |
| 294 | 555.30 | 121.79 |
| 295 | 556.68 | 121.80 |
| 296 | 558.05 | 121.81 |
| 297 | 559.42 | 121.83 |
| 298 | 560.79 | 121.84 |
| 299 | 562.16 | 121.84 |
| 300 | 563.53 | 121.83 |
| 301 | 564.91 | 121.80 |
| 302 | 566.28 | 121.79 |
| 303 | 567.65 | 121.81 |
| 304 | 569.02 | 121.81 |
| 305 | 570.39 | 121.80 |
| 306 | 571.76 | 121.80 |
| 307 | 573.14 | 121.80 |
| 308 | 574.51 | 121.79 |
| 309 | 575.88 | 121.77 |
| 310 | 577.25 | 121.76 |
| 311 | 578.62 | 121.75 |
| 312 | 579.99 | 121.73 |
| 313 | 581.37 | 121.72 |
| 314 | 582.74 | 121.72 |
| 315 | 584.11 | 121.72 |
| 316 | 585.48 | 121.72 |
| 317 | 586.85 | 121.72 |
| 318 | 588.23 | 121.71 |
| 319 | 589.60 | 121.70 |
| 320 | 590.97 | 121.69 |
| 321 | 592.34 | 121.69 |
| 322 | 593.71 | 121.68 |
| 323 | 595.08 | 121.68 |
| 324 | 596.46 | 121.66 |
| 325 | 597.83 | 121.64 |
| 326 | 599.20 | 121.63 |
| 327 | 600.57 | 121.63 |
| 328 | 601.94 | 121.66 |
| 329 | 603.31 | 121.70 |
| 330 | 604.69 | 121.71 |
| 331 | 606.06 | 121.71 |
| 332 | 607.43 | 121.73 |
| 333 | 608.80 | 121.74 |
| 334 | 610.17 | 121.75 |
| 335 | 611.54 | 121.77 |
| 336 | 612.92 | 121.78 |
| 337 | 614.29 | 121.79 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 338 | 615.66 | 121.80 |
| 339 | 617.03 | 121.80 |
| 340 | 618.40 | 121.81 |
| 341 | 619.78 | 121.78 |
| 342 | 621.15 | 121.74 |
| 343 | 622.52 | 121.69 |
| 344 | 623.89 | 121.64 |
| 345 | 625.26 | 121.60 |
| 346 | 626.63 | 121.57 |
| 347 | 628.01 | 121.55 |
| 348 | 629.38 | 121.55 |
| 349 | 630.75 | 121.56 |
| 350 | 632.12 | 121.56 |
| 351 | 633.49 | 121.55 |
| 352 | 634.86 | 121.56 |
| 353 | 637.17 | 121.55 |
| 354 | 639.48 | 121.54 |
| 355 | 641.79 | 121.53 |
| 356 | 644.10 | 121.53 |
| 357 | 646.41 | 121.53 |
| 358 | 648.72 | 121.53 |
| 359 | 651.03 | 121.51 |
| 360 | 653.34 | 121.50 |
| 361 | 655.65 | 121.50 |
| 362 | 657.96 | 121.52 |
| 363 | 660.27 | 121.52 |
| 364 | 662.58 | 121.52 |
| 365 | 664.89 | 121.52 |
| 366 | 667.20 | 121.53 |
| 367 | 669.51 | 121.54 |
| 368 | 671.82 | 121.57 |
| 369 | 674.13 | 121.59 |
| 370 | 676.44 | 121.62 |
| 371 | 678.75 | 121.64 |
| 372 | 681.06 | 121.64 |
| 373 | 683.37 | 121.64 |
| 374 | 685.68 | 121.65 |
| 375 | 687.99 | 121.64 |
| 376 | 690.30 | 121.63 |
| 377 | 692.61 | 121.63 |
| 378 | 694.92 | 121.64 |
| 379 | 697.23 | 121.61 |
| 380 | 699.54 | 121.60 |
| 381 | 701.85 | 121.61 |
| 382 | 704.16 | 121.61 |
| 383 | 706.47 | 121.62 |
| 384 | 708.78 | 121.62 |
| 385 | 710.96 | 121.61 |
| 386 | 713.13 | 121.63 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 387 | 715.31 | 121.65 |
| 388 | 717.48 | 121.65 |
| 389 | 719.66 | 121.66 |
| 390 | 721.83 | 121.69 |
| 391 | 724.00 | 121.71 |
| 392 | 726.18 | 121.76 |
| 393 | 728.35 | 121.79 |
| 394 | 730.53 | 121.79 |
| 395 | 732.70 | 121.82 |
| 396 | 734.88 | 121.86 |
| 397 | 737.05 | 121.84 |
| 398 | 739.23 | 121.84 |
| 399 | 741.40 | 121.82 |
| 400 | 743.58 | 121.83 |
| 401 | 745.75 | 121.82 |
| 402 | 747.93 | 121.84 |
| 403 | 750.10 | 121.88 |
| 404 | 752.28 | 121.90 |
| 405 | 754.45 | 121.91 |
| 406 | 756.63 | 121.93 |
| 407 | 758.80 | 121.92 |
| 408 | 760.98 | 121.86 |
| 409 | 763.15 | 121.90 |
| 410 | 765.33 | 121.97 |
| 411 | 767.50 | 122.05 |
| 412 | 769.67 | 122.07 |
| 413 | 771.85 | 122.10 |
| 414 | 774.02 | 122.15 |
| 415 | 776.20 | 122.07 |
| 416 | 778.37 | 122.00 |
| 417 | 779.90 | 121.84 |
| 418 | 781.42 | 121.72 |
| 419 | 782.95 | 121.62 |
| 420 | 784.47 | 121.57 |
| 421 | 786.00 | 121.54 |
| 422 | 787.52 | 121.57 |
| 423 | 789.05 | 121.61 |
| 424 | 790.58 | 121.68 |
| 425 | 792.10 | 121.76 |
| 426 | 793.63 | 121.84 |
| 427 | 795.15 | 121.86 |
| 428 | 796.68 | 121.88 |
| 429 | 798.20 | 121.91 |
| 430 | 799.73 | 121.92 |
| 431 | 801.25 | 121.93 |
| 432 | 802.78 | 121.92 |
| 433 | 804.30 | 121.92 |
| 434 | 805.83 | 121.93 |
| 435 | 807.35 | 121.94 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 436 | 808.88 | 121.93 |
| 437 | 810.40 | 121.96 |
| 438 | 811.93 | 122.00 |
| 439 | 813.45 | 122.04 |
| 440 | 814.98 | 122.08 |
| 441 | 816.50 | 122.12 |
| 442 | 818.03 | 122.15 |
| 443 | 819.55 | 122.16 |
| 444 | 821.08 | 122.17 |
| 445 | 822.60 | 122.18 |
| 446 | 824.13 | 122.20 |
| 447 | 825.65 | 122.24 |
| 448 | 827.18 | 122.30 |
| 449 | 828.48 | 122.34 |
| 450 | 829.79 | 122.38 |
| 451 | 831.10 | 122.44 |
| 452 | 832.40 | 122.49 |
| 453 | 833.71 | 122.51 |
| 454 | 835.01 | 122.52 |
| 455 | 836.32 | 122.51 |
| 456 | 837.63 | 122.46 |
| 457 | 838.93 | 122.36 |
| 458 | 840.24 | 122.28 |
| 459 | 841.54 | 122.23 |
| 460 | 842.85 | 122.23 |
| 461 | 844.16 | 122.25 |
| 462 | 845.46 | 122.27 |
| 463 | 846.77 | 122.29 |
| 464 | 848.07 | 122.30 |
| 465 | 849.38 | 122.31 |
| 466 | 850.69 | 122.32 |
| 467 | 851.99 | 122.32 |
| 468 | 853.30 | 122.36 |
| 469 | 854.60 | 122.39 |
| 470 | 855.91 | 122.42 |
| 471 | 857.22 | 122.44 |
| 472 | 858.52 | 122.44 |
| 473 | 859.83 | 122.43 |
| 474 | 861.13 | 122.40 |
| 475 | 862.44 | 122.37 |
| 476 | 863.75 | 122.33 |
| 477 | 865.05 | 122.28 |
| 478 | 866.36 | 122.25 |
| 479 | 867.66 | 122.23 |
| 480 | 868.97 | 122.22 |
| 481 | 870.27 | 122.22 |
| 482 | 871.58 | 122.22 |
| 483 | 872.89 | 122.22 |
| 484 | 874.19 | 122.23 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 485 | 875.50 | 122.24 |
| 486 | 876.80 | 122.26 |
| 487 | 878.11 | 122.29 |
| 488 | 879.42 | 122.32 |
| 489 | 880.72 | 122.34 |
| 490 | 882.03 | 122.36 |
| 491 | 883.33 | 122.36 |
| 492 | 884.64 | 122.36 |
| 493 | 885.95 | 122.35 |
| 494 | 887.25 | 122.35 |
| 495 | 888.56 | 122.35 |
| 496 | 889.86 | 122.36 |
| 497 | 891.17 | 122.37 |
| 498 | 892.48 | 122.39 |
| 499 | 893.78 | 122.39 |
| 500 | 895.09 | 122.39 |
| 501 | 896.39 | 122.38 |
| 502 | 897.70 | 122.39 |
| 503 | 899.01 | 122.40 |
| 504 | 900.31 | 122.40 |
| 505 | 901.62 | 122.38 |
| 506 | 902.92 | 122.35 |
| 507 | 904.23 | 122.30 |
| 508 | 905.54 | 122.27 |
| 509 | 906.84 | 122.23 |
| 510 | 908.15 | 122.20 |
| 511 | 909.45 | 122.17 |
| 512 | 910.76 | 122.16 |
| 513 | 912.06 | 122.15 |
| 514 | 913.37 | 122.13 |
| 515 | 914.68 | 122.11 |
| 516 | 915.98 | 122.10 |
| 517 | 917.29 | 122.10 |
| 518 | 918.59 | 122.09 |
| 519 | 919.90 | 122.09 |
| 520 | 921.21 | 122.10 |
| 521 | 922.51 | 122.16 |
| 522 | 923.82 | 122.33 |
| 523 | 925.12 | 122.49 |
| 524 | 926.43 | 122.67 |
| 525 | 927.74 | 122.73 |
| 526 | 929.04 | 122.67 |
| 527 | 930.35 | 122.63 |
| 528 | 931.65 | 122.62 |
| 529 | 932.96 | 122.65 |
| 530 | 934.27 | 122.70 |
| 531 | 935.57 | 122.75 |
| 532 | 936.88 | 122.81 |
| 533 | 938.18 | 122.84 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 534 | 939.49 | 122.87 |
| 535 | 940.80 | 122.88 |
| 536 | 942.10 | 122.88 |
| 537 | 943.41 | 122.80 |
| 538 | 944.71 | 122.70 |
| 539 | 946.02 | 122.53 |
| 540 | 947.33 | 122.38 |
| 541 | 948.63 | 122.36 |
| 542 | 949.94 | 122.34 |
| 543 | 951.24 | 122.34 |
| 544 | 952.55 | 122.34 |
| 545 | 953.85 | 122.32 |
| 546 | 955.16 | 122.32 |
| 547 | 956.47 | 122.33 |
| 548 | 957.77 | 122.35 |
| 549 | 959.08 | 122.39 |
| 550 | 960.38 | 122.41 |
| 551 | 961.69 | 122.41 |
| 552 | 963.00 | 122.43 |
| 553 | 964.30 | 122.46 |
| 554 | 965.61 | 122.47 |
| 555 | 966.91 | 122.48 |
| 556 | 968.22 | 122.49 |
| 557 | 969.53 | 122.49 |
| 558 | 970.83 | 122.53 |
| 559 | 972.14 | 122.57 |
| 560 | 973.44 | 122.59 |
| 561 | 974.75 | 122.61 |
| 562 | 976.06 | 122.62 |
| 563 | 977.36 | 122.62 |
| 564 | 978.67 | 122.63 |
| 565 | 979.97 | 122.63 |
| 566 | 981.28 | 122.63 |
| 567 | 982.59 | 122.62 |
| 568 | 983.89 | 122.61 |
| 569 | 985.20 | 122.59 |
| 570 | 986.50 | 122.57 |
| 571 | 987.81 | 122.55 |
| 572 | 989.11 | 122.53 |
| 573 | 990.42 | 122.48 |
| 574 | 991.73 | 122.41 |
| 575 | 993.03 | 122.36 |
| 576 | 994.34 | 122.33 |
| 577 | 996.52 | 122.31 |
| 578 | 998.71 | 122.36 |
| 579 | 1000.89 | 122.43 |
| 580 | 1003.08 | 122.43 |
| 581 | 1005.26 | 122.39 |
| 582 | 1007.45 | 122.46 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 583 | 1009.63 | 122.65 |
| 584 | 1011.82 | 122.67 |
| 585 | 1014.00 | 122.70 |
| 586 | 1016.19 | 122.74 |
| 587 | 1018.37 | 122.77 |
| 588 | 1020.56 | 122.80 |
| 589 | 1022.74 | 122.83 |
| 590 | 1024.93 | 122.85 |
| 591 | 1027.11 | 122.85 |
| 592 | 1029.30 | 122.65 |
| 593 | 1031.48 | 122.56 |
| 594 | 1033.67 | 122.55 |
| 595 | 1035.85 | 122.54 |
| 596 | 1038.04 | 122.54 |
| 597 | 1040.22 | 122.55 |
| 598 | 1042.41 | 122.59 |
| 599 | 1044.59 | 122.65 |
| 600 | 1046.78 | 122.66 |
| 601 | 1048.96 | 122.69 |
| 602 | 1051.15 | 122.70 |
| 603 | 1053.33 | 122.75 |
| 604 | 1055.52 | 122.86 |
| 605 | 1057.70 | 122.87 |
| 606 | 1059.89 | 122.85 |
| 607 | 1062.07 | 122.84 |
| 608 | 1064.25 | 122.82 |
| 609 | 1065.59 | 122.82 |
| 610 | 1066.93 | 122.84 |
| 611 | 1068.27 | 122.87 |
| 612 | 1069.61 | 122.92 |
| 613 | 1070.95 | 122.98 |
| 614 | 1072.29 | 122.99 |
| 615 | 1073.63 | 122.95 |
| 616 | 1074.96 | 122.90 |
| 617 | 1076.30 | 122.84 |
| 618 | 1077.64 | 122.80 |
| 619 | 1078.98 | 122.83 |
| 620 | 1080.32 | 122.89 |
| 621 | 1081.66 | 122.92 |
| 622 | 1083.00 | 122.88 |
| 623 | 1084.33 | 122.72 |
| 624 | 1085.67 | 122.56 |
| 625 | 1087.01 | 122.53 |
| 626 | 1088.35 | 122.56 |
| 627 | 1089.69 | 122.60 |
| 628 | 1091.03 | 122.66 |
| 629 | 1092.37 | 122.71 |
| 630 | 1093.70 | 122.70 |
| 631 | 1095.04 | 122.65 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 632 | 1096.38 | 122.52 |
| 633 | 1097.72 | 122.38 |
| 634 | 1099.06 | 122.28 |
| 635 | 1100.40 | 122.18 |
| 636 | 1101.74 | 122.17 |
| 637 | 1103.08 | 122.18 |
| 638 | 1104.41 | 122.20 |
| 639 | 1105.75 | 122.25 |
| 640 | 1107.09 | 122.28 |
| 641 | 1109.07 | 122.23 |
| 642 | 1111.04 | 122.15 |
| 643 | 1113.02 | 122.15 |
| 644 | 1115.00 | 122.12 |
| 645 | 1116.97 | 122.14 |
| 646 | 1118.95 | 122.22 |
| 647 | 1120.93 | 122.24 |
| 648 | 1122.90 | 122.11 |
| 649 | 1124.88 | 122.02 |
| 650 | 1126.86 | 121.97 |
| 651 | 1128.83 | 121.93 |
| 652 | 1130.81 | 121.94 |
| 653 | 1132.79 | 121.94 |
| 654 | 1134.76 | 121.95 |
| 655 | 1136.74 | 121.97 |
| 656 | 1138.72 | 122.01 |
| 657 | 1141.20 | 122.07 |
| 658 | 1143.69 | 122.10 |
| 659 | 1146.17 | 122.20 |
| 660 | 1148.66 | 122.24 |
| 661 | 1151.14 | 122.18 |
| 662 | 1153.62 | 122.12 |
| 663 | 1156.11 | 122.10 |
| 664 | 1158.59 | 122.06 |
| 665 | 1161.08 | 122.04 |
| 666 | 1163.56 | 122.00 |
| 667 | 1166.05 | 122.00 |
| 668 | 1168.53 | 122.00 |
| 669 | 1171.02 | 121.99 |
| 670 | 1173.50 | 122.01 |
| 671 | 1175.98 | 121.99 |
| 672 | 1178.47 | 121.94 |
| 673 | 1180.95 | 121.96 |
| 674 | 1183.44 | 121.95 |
| 675 | 1185.92 | 121.96 |
| 676 | 1188.41 | 121.98 |
| 677 | 1190.89 | 121.98 |
| 678 | 1193.38 | 121.94 |
| 679 | 1195.86 | 121.96 |
| 680 | 1198.34 | 122.01 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 681 | 1200.83 | 122.00 |
| 682 | 1203.31 | 122.00 |
| 683 | 1205.80 | 122.05 |
| 684 | 1208.28 | 122.08 |
| 685 | 1210.77 | 122.05 |
| 686 | 1213.25 | 122.00 |
| 687 | 1215.74 | 121.95 |
| 688 | 1218.22 | 121.98 |
| 689 | 1220.70 | 122.03 |
| 690 | 1223.19 | 122.00 |
| 691 | 1225.67 | 121.98 |
| 692 | 1228.16 | 121.99 |
| 693 | 1230.64 | 121.99 |
| 694 | 1233.13 | 121.96 |
| 695 | 1235.61 | 121.99 |
| 696 | 1238.10 | 121.98 |
| 697 | 1240.58 | 121.93 |
| 698 | 1243.06 | 121.94 |
| 699 | 1245.55 | 121.93 |
| 700 | 1248.03 | 121.90 |
| 701 | 1250.52 | 121.91 |
| 702 | 1253.00 | 121.93 |
| 703 | 1255.49 | 121.93 |
| 704 | 1257.97 | 121.91 |
| 705 | 1260.46 | 121.91 |
| 706 | 1262.94 | 121.85 |
| 707 | 1265.42 | 121.77 |
| 708 | 1267.91 | 121.73 |
| 709 | 1270.39 | 121.57 |
| 710 | 1272.88 | 121.61 |
| 711 | 1275.36 | 121.68 |
| 712 | 1277.85 | 121.67 |
| 713 | 1280.33 | 121.67 |
| 714 | 1282.82 | 121.56 |
| 715 | 1285.30 | 121.46 |
| 716 | 1287.78 | 121.41 |
| 717 | 1290.27 | 121.40 |
| 718 | 1292.75 | 121.39 |
| 719 | 1295.24 | 121.35 |
| 720 | 1297.72 | 121.31 |
| 721 | 1300.21 | 121.27 |
| 722 | 1302.69 | 121.31 |
| 723 | 1305.17 | 121.34 |
| 724 | 1307.66 | 121.28 |
| 725 | 1310.14 | 121.23 |
| 726 | 1312.63 | 121.25 |
| 727 | 1315.11 | 121.27 |
| 728 | 1317.60 | 121.26 |
| 729 | 1320.08 | 121.22 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 730 | 1322.57 | 121.15 |
| 731 | 1325.05 | 121.18 |
| 732 | 1327.53 | 121.23 |
| 733 | 1330.02 | 121.21 |
| 734 | 1332.50 | 121.18 |
| 735 | 1334.99 | 121.18 |
| 736 | 1337.47 | 121.18 |
| 737 | 1339.96 | 121.17 |
| 738 | 1342.44 | 121.18 |
| 739 | 1344.93 | 121.20 |
| 740 | 1347.41 | 121.21 |
| 741 | 1349.89 | 121.21 |
| 742 | 1352.38 | 121.23 |
| 743 | 1354.86 | 121.24 |
| 744 | 1357.35 | 121.20 |
| 745 | 1359.83 | 121.16 |
| 746 | 1362.32 | 121.15 |
| 747 | 1364.80 | 121.17 |
| 748 | 1367.29 | 121.17 |
| 749 | 1369.77 | 121.20 |
| 750 | 1372.25 | 121.23 |
| 751 | 1374.74 | 121.26 |
| 752 | 1377.22 | 121.28 |
| 753 | 1379.71 | 121.31 |
| 754 | 1382.19 | 121.35 |
| 755 | 1384.68 | 121.36 |
| 756 | 1387.16 | 121.35 |
| 757 | 1389.65 | 121.33 |
| 758 | 1392.13 | 121.40 |
| 759 | 1394.61 | 121.48 |
| 760 | 1397.10 | 121.52 |
| 761 | 1399.58 | 121.52 |
| 762 | 1402.07 | 121.52 |
| 763 | 1404.55 | 121.63 |
| 764 | 1407.04 | 121.67 |
| 765 | 1409.52 | 121.62 |
| 766 | 1412.01 | 121.66 |
| 767 | 1414.49 | 121.70 |
| 768 | 1416.97 | 121.71 |
| 769 | 1419.46 | 121.70 |
| 770 | 1421.94 | 121.76 |
| 771 | 1424.43 | 121.86 |
| 772 | 1426.91 | 121.99 |
| 773 | 1429.40 | 122.06 |
| 774 | 1431.88 | 122.03 |
| 775 | 1434.37 | 122.11 |
| 776 | 1436.85 | 122.13 |
| 777 | 1439.33 | 122.11 |
| 778 | 1441.82 | 122.06 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 779 | 1444.30 | 121.95 |
| 780 | 1446.79 | 121.90 |
| 781 | 1449.27 | 121.87 |
| 782 | 1451.76 | 121.74 |
| 783 | 1454.24 | 121.69 |
| 784 | 1456.73 | 121.60 |

Comment:

## Weir Cross Section: X-0110W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 119.26 |
| 1 | 1.30 | 119.29 |
| 2 | 2.59 | 119.23 |
| 3 | 3.89 | 119.20 |
| 4 | 5.19 | 119.19 |
| 5 | 6.49 | 119.24 |
| 6 | 7.78 | 119.38 |
| 7 | 9.08 | 119.48 |
| 8 | 10.38 | 119.51 |
| 9 | 11.68 | 119.49 |
| 10 | 12.97 | 119.48 |
| 11 | 14.27 | 119.47 |
| 12 | 15.57 | 119.45 |
| 13 | 16.87 | 119.44 |
| 14 | 18.16 | 119.43 |
| 15 | 19.46 | 119.41 |
| 16 | 20.76 | 119.40 |
| 17 | 22.06 | 119.44 |
| 18 | 23.35 | 119.55 |
| 19 | 24.65 | 119.67 |
| 20 | 25.95 | 119.71 |
| 21 | 27.25 | 119.65 |
| 22 | 28.54 | 119.58 |
| 23 | 29.84 | 119.51 |
| 24 | 31.14 | 119.44 |
| 25 | 32.44 | 119.40 |
| 26 | 33.73 | 119.35 |
| 27 | 35.03 | 119.33 |
| 28 | 36.33 | 119.35 |
| 29 | 37.63 | 119.38 |
| 30 | 38.92 | 119.45 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 31 | 40.22 | 119.53 |
| 32 | 41.52 | 119.56 |
| 33 | 42.82 | 119.56 |
| 34 | 44.11 | 119.57 |
| 35 | 45.41 | 119.60 |
| 36 | 46.71 | 119.64 |
| 37 | 48.01 | 119.68 |
| 38 | 49.30 | 119.74 |
| 39 | 50.60 | 119.86 |
| 40 | 51.90 | 120.01 |
| 41 | 53.20 | 120.10 |
| 42 | 54.49 | 120.17 |
| 43 | 55.79 | 120.30 |
| 44 | 57.09 | 120.38 |
| 45 | 58.39 | 120.48 |
| 46 | 59.68 | 120.56 |
| 47 | 60.98 | 120.50 |
| 48 | 62.28 | 120.41 |
| 49 | 63.58 | 120.24 |
| 50 | 64.87 | 120.08 |
| 51 | 66.17 | 119.96 |
| 52 | 67.47 | 119.88 |
| 53 | 68.77 | 119.91 |
| 54 | 70.06 | 119.94 |
| 55 | 71.36 | 119.97 |
| 56 | 72.66 | 119.99 |
| 57 | 73.96 | 120.03 |
| 58 | 75.25 | 120.01 |
| 59 | 76.55 | 120.03 |
| 60 | 77.85 | 120.13 |
| 61 | 79.15 | 120.25 |
| 62 | 80.44 | 120.25 |
| 63 | 81.74 | 120.19 |
| 64 | 83.04 | 120.15 |
| 65 | 85.50 | 120.27 |
| 66 | 87.97 | 120.50 |
| 67 | 90.43 | 120.78 |
| 68 | 92.90 | 120.78 |
| 69 | 95.36 | 120.41 |
| 70 | 97.83 | 119.98 |
| 71 | 100.29 | 119.78 |
| 72 | 102.76 | 119.71 |
| 73 | 105.22 | 119.67 |
| 74 | 107.69 | 119.67 |
| 75 | 110.15 | 119.72 |
| 76 | 112.62 | 120.00 |
| 77 | 115.08 | 120.09 |
| 78 | 117.55 | 119.99 |
| 79 | 120.01 | 119.81 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 80 | 122.47 | 119.68 |
| 81 | 124.56 | 119.62 |
| 82 | 126.65 | 119.63 |
| 83 | 128.73 | 119.64 |
| 84 | 130.82 | 119.65 |
| 85 | 132.91 | 119.63 |
| 86 | 134.99 | 119.72 |
| 87 | 137.08 | 119.74 |
| 88 | 139.17 | 119.69 |
| 89 | 141.25 | 119.69 |
| 90 | 143.34 | 119.90 |
| 91 | 145.43 | 119.97 |
| 92 | 147.51 | 119.92 |
| 93 | 149.60 | 119.91 |
| 94 | 151.69 | 119.82 |
| 95 | 153.77 | 119.90 |
| 96 | 155.86 | 119.98 |
| 97 | 157.95 | 119.82 |
| 98 | 160.03 | 119.68 |
| 99 | 162.12 | 119.68 |
| 100 | 164.21 | 119.74 |
| 101 | 166.29 | 119.77 |
| 102 | 168.38 | 119.77 |
| 103 | 170.47 | 119.68 |
| 104 | 172.55 | 119.59 |
| 105 | 174.64 | 119.57 |
| 106 | 176.73 | 119.61 |
| 107 | 178.81 | 119.77 |
| 108 | 180.90 | 119.93 |
| 109 | 182.99 | 119.76 |
| 110 | 185.07 | 119.62 |
| 111 | 187.16 | 119.59 |
| 112 | 189.25 | 119.52 |
| 113 | 190.59 | 119.55 |
| 114 | 191.93 | 119.60 |
| 115 | 193.27 | 119.68 |
| 116 | 194.61 | 119.79 |
| 117 | 195.95 | 119.75 |
| 118 | 197.29 | 119.67 |
| 119 | 198.63 | 119.70 |
| 120 | 199.97 | 119.74 |
| 121 | 201.31 | 119.73 |
| 122 | 202.65 | 119.73 |
| 123 | 203.99 | 119.68 |
| 124 | 205.33 | 119.65 |
| 125 | 206.67 | 119.68 |
| 126 | 208.01 | 119.71 |
| 127 | 209.35 | 119.74 |
| 128 | 210.69 | 119.74 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 129 | 212.03 | 119.69 |
| 130 | 213.37 | 119.60 |
| 131 | 214.71 | 119.50 |
| 132 | 216.05 | 119.44 |
| 133 | 217.39 | 119.39 |
| 134 | 218.73 | 119.43 |
| 135 | 220.08 | 119.47 |
| 136 | 221.42 | 119.43 |
| 137 | 222.76 | 119.37 |
| 138 | 224.10 | 119.45 |
| 139 | 225.44 | 119.52 |
| 140 | 226.78 | 119.51 |
| 141 | 228.12 | 119.50 |
| 142 | 229.46 | 119.51 |
| 143 | 230.80 | 119.52 |
| 144 | 232.14 | 119.48 |
| 145 | 233.48 | 119.47 |
| 146 | 234.82 | 119.50 |
| 147 | 236.16 | 119.58 |
| 148 | 237.50 | 119.69 |
| 149 | 238.84 | 119.69 |
| 150 | 240.18 | 119.65 |
| 151 | 241.52 | 119.51 |
| 152 | 242.86 | 119.35 |
| 153 | 244.20 | 119.35 |
| 154 | 245.54 | 119.34 |
| 155 | 246.88 | 119.34 |
| 156 | 248.22 | 119.35 |
| 157 | 249.56 | 119.35 |
| 158 | 250.90 | 119.36 |
| 159 | 252.24 | 119.41 |
| 160 | 253.58 | 119.42 |
| 161 | 254.92 | 119.38 |
| 162 | 256.26 | 119.37 |
| 163 | 257.60 | 119.41 |
| 164 | 258.94 | 119.34 |
| 165 | 260.28 | 119.24 |
| 166 | 261.63 | 119.19 |
| 167 | 262.97 | 119.16 |
| 168 | 264.31 | 119.15 |
| 169 | 265.65 | 119.16 |
| 170 | 266.99 | 119.32 |
| 171 | 268.33 | 119.48 |
| 172 | 269.67 | 119.50 |
| 173 | 271.01 | 119.50 |
| 174 | 272.35 | 119.46 |
| 175 | 273.69 | 119.45 |
| 176 | 275.03 | 119.46 |
| 177 | 276.94 | 119.50 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 178 | 278.85 | 119.58 |
| 179 | 280.75 | 119.73 |
| 180 | 282.66 | 119.52 |
| 181 | 284.57 | 119.48 |
| 182 | 286.48 | 119.51 |
| 183 | 288.39 | 119.51 |
| 184 | 290.29 | 119.57 |
| 185 | 292.20 | 119.61 |
| 186 | 294.11 | 119.63 |
| 187 | 296.02 | 119.63 |
| 188 | 297.93 | 119.62 |
| 189 | 299.84 | 119.49 |
| 190 | 301.74 | 119.36 |
| 191 | 303.65 | 119.31 |
| 192 | 305.56 | 119.49 |
| 193 | 307.47 | 119.50 |
| 194 | 309.38 | 119.56 |
| 195 | 311.29 | 119.67 |
| 196 | 313.19 | 119.68 |
| 197 | 315.10 | 119.61 |
| 198 | 317.01 | 119.46 |
| 199 | 318.92 | 119.34 |
| 200 | 320.83 | 119.40 |
| 201 | 322.74 | 119.29 |
| 202 | 324.64 | 119.21 |
| 203 | 326.55 | 119.19 |
| 204 | 328.46 | 119.22 |
| 205 | 330.37 | 119.15 |
| 206 | 332.28 | 119.04 |
| 207 | 334.19 | 118.91 |
| 208 | 336.09 | 118.77 |
| 209 | 337.57 | 118.82 |
| 210 | 339.05 | 118.89 |
| 211 | 340.53 | 118.97 |
| 212 | 342.00 | 118.96 |
| 213 | 343.48 | 119.10 |
| 214 | 344.96 | 119.31 |
| 215 | 346.44 | 119.30 |
| 216 | 347.91 | 119.27 |
| 217 | 349.39 | 119.11 |
| 218 | 350.87 | 118.93 |
| 219 | 352.35 | 118.82 |
| 220 | 353.82 | 118.83 |
| 221 | 355.30 | 118.94 |
| 222 | 356.78 | 119.07 |
| 223 | 358.26 | 119.20 |
| 224 | 359.73 | 119.37 |
| 225 | 361.21 | 119.53 |
| 226 | 362.69 | 119.58 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 227 | 364.17 | 119.61 |
| 228 | 365.64 | 119.63 |
| 229 | 367.12 | 119.65 |
| 230 | 368.60 | 119.63 |
| 231 | 370.08 | 119.52 |
| 232 | 371.55 | 119.43 |
| 233 | 373.03 | 119.38 |
| 234 | 374.51 | 119.34 |
| 235 | 375.99 | 119.31 |
| 236 | 377.46 | 119.29 |
| 237 | 378.94 | 119.29 |
| 238 | 380.42 | 119.34 |
| 239 | 381.90 | 119.41 |
| 240 | 383.37 | 119.47 |
| 241 | 385.42 | 119.41 |
| 242 | 387.47 | 119.31 |
| 243 | 389.51 | 119.32 |
| 244 | 391.56 | 119.31 |
| 245 | 393.60 | 119.14 |
| 246 | 395.65 | 118.91 |
| 247 | 397.70 | 118.83 |
| 248 | 399.74 | 118.83 |
| 249 | 401.79 | 118.78 |
| 250 | 403.83 | 118.79 |
| 251 | 405.88 | 118.75 |
| 252 | 407.93 | 118.70 |
| 253 | 409.97 | 118.63 |
| 254 | 412.02 | 118.62 |
| 255 | 414.07 | 118.56 |
| 256 | 416.11 | 118.60 |
| 257 | 418.57 | 118.60 |
| 258 | 421.03 | 118.49 |
| 259 | 423.49 | 118.34 |
| 260 | 425.95 | 118.25 |
| 261 | 428.42 | 118.29 |
| 262 | 430.88 | 118.54 |
| 263 | 433.34 | 118.78 |
| 264 | 435.80 | 118.73 |
| 265 | 437.59 | 118.55 |
| 266 | 439.38 | 118.43 |
| 267 | 441.17 | 118.50 |
| 268 | 442.96 | 118.65 |
| 269 | 444.75 | 118.84 |
| 270 | 446.54 | 118.89 |
| 271 | 448.33 | 118.92 |
| 272 | 450.12 | 118.86 |
| 273 | 451.91 | 118.77 |
| 274 | 453.70 | 118.62 |
| 275 | 455.49 | 118.47 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 276 | 457.28 | 118.45 |
| 277 | 459.07 | 118.42 |
| 278 | 460.86 | 118.36 |
| 279 | 462.65 | 118.27 |
| 280 | 464.44 | 118.28 |
| 281 | 466.23 | 118.35 |
| 282 | 468.02 | 118.49 |
| 283 | 469.81 | 118.68 |
| 284 | 471.60 | 118.80 |
| 285 | 473.39 | 118.90 |
| 286 | 475.18 | 119.14 |
| 287 | 476.97 | 119.18 |
| 288 | 478.76 | 119.10 |
| 289 | 480.55 | 119.07 |
| 290 | 482.34 | 119.07 |
| 291 | 484.13 | 119.08 |
| 292 | 485.92 | 118.96 |
| 293 | 487.71 | 118.92 |
| 294 | 489.50 | 118.91 |
| 295 | 491.29 | 118.92 |
| 296 | 493.08 | 118.84 |
| 297 | 494.93 | 118.74 |
| 298 | 496.77 | 118.64 |
| 299 | 498.62 | 118.71 |
| 300 | 500.47 | 118.86 |
| 301 | 502.31 | 119.06 |
| 302 | 504.16 | 119.27 |
| 303 | 506.00 | 119.21 |
| 304 | 507.85 | 119.15 |
| 305 | 509.70 | 119.07 |
| 306 | 511.54 | 119.01 |
| 307 | 513.39 | 118.95 |
| 308 | 515.24 | 118.92 |
| 309 | 517.08 | 118.94 |
| 310 | 518.93 | 119.05 |
| 311 | 520.77 | 118.95 |
| 312 | 522.62 | 118.82 |
| 313 | 524.47 | 118.71 |
| 314 | 526.31 | 118.69 |
| 315 | 528.16 | 118.69 |
| 316 | 530.00 | 118.69 |
| 317 | 531.85 | 118.66 |
| 318 | 533.70 | 118.56 |
| 319 | 535.54 | 118.47 |
| 320 | 537.39 | 118.46 |
| 321 | 539.23 | 118.55 |
| 322 | 541.08 | 118.54 |
| 323 | 542.93 | 118.49 |
| 324 | 544.77 | 118.58 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 325 | 546.62 | 118.84 |
| 326 | 548.46 | 118.88 |
| 327 | 550.31 | 118.90 |
| 328 | 552.16 | 118.85 |
| 329 | 553.58 | 118.75 |
| 330 | 555.01 | 118.71 |
| 331 | 556.44 | 118.73 |
| 332 | 557.86 | 118.74 |
| 333 | 559.29 | 118.64 |
| 334 | 560.71 | 118.53 |
| 335 | 562.14 | 118.29 |
| 336 | 563.57 | 118.14 |
| 337 | 564.99 | 118.07 |
| 338 | 566.42 | 118.00 |
| 339 | 567.85 | 118.02 |
| 340 | 569.27 | 118.10 |
| 341 | 570.70 | 118.16 |
| 342 | 572.12 | 118.15 |
| 343 | 573.55 | 118.10 |
| 344 | 574.98 | 118.14 |
| 345 | 577.38 | 118.34 |
| 346 | 579.79 | 118.50 |
| 347 | 582.20 | 118.40 |
| 348 | 584.60 | 118.26 |
| 349 | 587.01 | 118.17 |
| 350 | 589.42 | 117.92 |
| 351 | 591.82 | 118.19 |
| 352 | 594.23 | 118.56 |
| 353 | 596.63 | 118.60 |
| 354 | 599.04 | 118.77 |
| 355 | 601.45 | 119.09 |
| 356 | 603.85 | 119.35 |
| 357 | 606.26 | 119.56 |
| 358 | 608.67 | 119.77 |
| 359 | 611.07 | 119.94 |
| 360 | 613.48 | 120.01 |
| 361 | 615.49 | 120.12 |
| 362 | 617.50 | 120.21 |
| 363 | 619.51 | 120.26 |
| 364 | 621.52 | 120.30 |
| 365 | 623.53 | 120.42 |
| 366 | 625.54 | 120.29 |
| 367 | 627.55 | 120.28 |
| 368 | 629.56 | 120.27 |
| 369 | 631.05 | 120.39 |
| 370 | 632.55 | 120.10 |
| 371 | 634.04 | 119.75 |
| 372 | 635.53 | 119.08 |
| 373 | 637.02 | 118.50 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 374 | 638.51 | 118.10 |
| 375 | 640.01 | 117.85 |
| 376 | 641.50 | 117.82 |
| 377 | 642.99 | 117.96 |
| 378 | 644.48 | 118.16 |
| 379 | 645.97 | 118.27 |
| 380 | 647.47 | 118.36 |
| 381 | 648.96 | 118.47 |
| 382 | 650.45 | 118.59 |
| 383 | 651.94 | 118.73 |
| 384 | 653.43 | 118.81 |
| 385 | 654.92 | 118.84 |
| 386 | 656.40 | 118.72 |
| 387 | 657.89 | 118.60 |
| 388 | 659.37 | 118.47 |
| 389 | 660.86 | 118.35 |
| 390 | 662.34 | 118.22 |
| 391 | 663.82 | 118.09 |
| 392 | 665.31 | 117.98 |
| 393 | 666.79 | 117.84 |
| 394 | 668.28 | 117.75 |
| 395 | 669.76 | 117.79 |
| 396 | 671.24 | 117.79 |
| 397 | 672.73 | 117.79 |
| 398 | 674.21 | 117.85 |
| 399 | 675.70 | 117.87 |
| 400 | 677.18 | 117.83 |
| 401 | 679.57 | 117.82 |
| 402 | 681.97 | 117.83 |
| 403 | 684.36 | 117.76 |
| 404 | 686.76 | 117.66 |
| 405 | 689.15 | 117.69 |
| 406 | 691.54 | 117.77 |
| 407 | 693.94 | 117.85 |
| 408 | 696.33 | 117.92 |
| 409 | 698.72 | 117.69 |
| 410 | 701.12 | 117.36 |
| 411 | 703.51 | 117.32 |
| 412 | 705.91 | 117.68 |
| 413 | 708.30 | 117.94 |
| 414 | 710.69 | 118.01 |
| 415 | 713.09 | 118.24 |
| 416 | 715.48 | 118.48 |
| 417 | 716.91 | 118.67 |
| 418 | 718.34 | 118.73 |
| 419 | 719.78 | 118.79 |
| 420 | 721.21 | 118.75 |
| 421 | 722.64 | 118.71 |
| 422 | 724.07 | 118.73 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 423 | 725.50 | 118.75 |
| 424 | 726.93 | 118.79 |

Comment:

## Weir Cross Section: X-0120W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 123.17 |
| 1 | 2.12 | 123.24 |
| 2 | 4.23 | 123.33 |
| 3 | 6.35 | 123.42 |
| 4 | 8.47 | 123.40 |
| 5 | 10.58 | 123.47 |
| 6 | 12.70 | 123.52 |
| 7 | 14.82 | 123.46 |
| 8 | 16.94 | 123.34 |
| 9 | 19.05 | 123.33 |
| 10 | 21.17 | 123.72 |
| 11 | 23.29 | 123.86 |
| 12 | 25.40 | 123.80 |
| 13 | 27.52 | 123.69 |
| 14 | 29.64 | 123.58 |
| 15 | 31.75 | 123.52 |
| 16 | 33.87 | 123.57 |
| 17 | 35.88 | 123.52 |
| 18 | 37.89 | 123.48 |
| 19 | 39.90 | 123.56 |
| 20 | 41.90 | 123.53 |
| 21 | 43.91 | 123.29 |
| 22 | 45.92 | 123.03 |
| 23 | 47.93 | 122.93 |
| 24 | 49.94 | 122.72 |
| 25 | 51.95 | 122.58 |
| 26 | 53.95 | 122.44 |
| 27 | 55.96 | 122.37 |
| 28 | 57.97 | 122.32 |
| 29 | 59.98 | 122.28 |
| 30 | 61.99 | 122.23 |
| 31 | 64.00 | 122.16 |
| 32 | 66.00 | 122.11 |
| 33 | 68.01 | 122.07 |
| 34 | 70.02 | 122.00 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 35 | 72.03 | 121.91 |
| 36 | 74.04 | 121.85 |
| 37 | 76.05 | 121.80 |
| 38 | 78.05 | 121.75 |
| 39 | 80.06 | 121.68 |
| 40 | 82.07 | 121.61 |
| 41 | 84.08 | 121.55 |
| 42 | 86.09 | 121.50 |
| 43 | 88.10 | 121.42 |
| 44 | 90.10 | 121.38 |
| 45 | 92.11 | 121.34 |
| 46 | 94.12 | 121.30 |
| 47 | 96.13 | 121.26 |
| 48 | 98.14 | 121.23 |
| 49 | 100.15 | 121.18 |
| 50 | 102.15 | 121.14 |
| 51 | 104.16 | 121.11 |
| 52 | 106.17 | 121.07 |
| 53 | 108.18 | 121.02 |
| 54 | 110.19 | 120.98 |
| 55 | 112.20 | 120.94 |
| 56 | 114.20 | 120.92 |
| 57 | 116.21 | 120.88 |
| 58 | 118.22 | 120.88 |
| 59 | 120.23 | 120.84 |
| 60 | 122.24 | 120.76 |
| 61 | 124.25 | 120.71 |
| 62 | 126.25 | 120.65 |
| 63 | 128.26 | 120.63 |
| 64 | 130.27 | 120.63 |
| 65 | 132.28 | 120.64 |
| 66 | 134.29 | 120.65 |
| 67 | 136.30 | 120.64 |
| 68 | 138.30 | 120.63 |
| 69 | 140.31 | 120.60 |
| 70 | 142.32 | 120.54 |
| 71 | 144.33 | 120.51 |
| 72 | 146.34 | 120.44 |
| 73 | 148.35 | 120.36 |
| 74 | 150.35 | 120.30 |
| 75 | 152.36 | 120.23 |
| 76 | 154.37 | 120.18 |
| 77 | 156.38 | 120.15 |
| 78 | 158.39 | 120.13 |
| 79 | 160.40 | 120.07 |
| 80 | 162.40 | 120.03 |
| 81 | 163.77 | 120.04 |
| 82 | 165.14 | 120.04 |
| 83 | 166.51 | 120.04 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 84 | 167.87 | 120.06 |
| 85 | 169.24 | 120.07 |
| 86 | 170.61 | 120.06 |
| 87 | 171.98 | 120.05 |
| 88 | 173.35 | 120.04 |
| 89 | 174.71 | 120.02 |
| 90 | 176.08 | 119.98 |
| 91 | 177.45 | 119.96 |
| 92 | 178.82 | 119.93 |
| 93 | 180.18 | 119.97 |
| 94 | 181.55 | 120.02 |
| 95 | 182.92 | 120.02 |
| 96 | 184.29 | 120.00 |
| 97 | 185.66 | 119.96 |
| 98 | 187.02 | 119.91 |
| 99 | 188.39 | 119.84 |
| 100 | 189.76 | 119.77 |
| 101 | 191.13 | 119.70 |
| 102 | 192.49 | 119.64 |
| 103 | 193.86 | 119.60 |
| 104 | 195.23 | 119.55 |
| 105 | 196.60 | 119.51 |
| 106 | 197.97 | 119.49 |
| 107 | 199.33 | 119.47 |
| 108 | 200.70 | 119.50 |
| 109 | 202.07 | 119.54 |
| 110 | 203.44 | 119.62 |
| 111 | 204.80 | 119.64 |
| 112 | 206.17 | 119.60 |
| 113 | 207.54 | 119.48 |
| 114 | 208.91 | 119.34 |
| 115 | 210.27 | 119.26 |
| 116 | 211.64 | 119.19 |
| 117 | 213.01 | 119.12 |
| 118 | 214.38 | 119.06 |
| 119 | 215.75 | 119.08 |
| 120 | 217.11 | 119.08 |
| 121 | 218.48 | 119.07 |
| 122 | 219.85 | 119.09 |
| 123 | 221.22 | 119.13 |
| 124 | 222.58 | 119.20 |
| 125 | 223.95 | 119.29 |
| 126 | 225.32 | 119.41 |
| 127 | 226.69 | 119.52 |
| 128 | 228.06 | 119.56 |
| 129 | 229.42 | 119.59 |
| 130 | 230.79 | 119.63 |
| 131 | 232.16 | 119.65 |
| 132 | 233.53 | 119.63 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 133 | 234.89 | 119.54 |
| 134 | 236.26 | 119.41 |
| 135 | 237.63 | 119.34 |
| 136 | 239.00 | 119.30 |
| 137 | 240.37 | 119.32 |
| 138 | 241.73 | 119.35 |
| 139 | 243.10 | 119.37 |
| 140 | 244.47 | 119.38 |
| 141 | 245.84 | 119.37 |
| 142 | 247.20 | 119.38 |
| 143 | 248.57 | 119.43 |
| 144 | 249.94 | 119.57 |
| 145 | 251.31 | 119.78 |
| 146 | 252.67 | 119.90 |
| 147 | 254.04 | 119.99 |
| 148 | 255.41 | 119.93 |
| 149 | 256.78 | 119.84 |
| 150 | 258.15 | 119.69 |
| 151 | 259.51 | 119.58 |
| 152 | 260.88 | 119.57 |
| 153 | 262.25 | 119.56 |
| 154 | 263.62 | 119.56 |
| 155 | 264.98 | 119.58 |
| 156 | 266.35 | 119.62 |
| 157 | 267.72 | 119.60 |
| 158 | 269.09 | 119.55 |
| 159 | 270.46 | 119.52 |
| 160 | 271.82 | 119.51 |
| 161 | 273.19 | 119.71 |
| 162 | 274.56 | 119.87 |
| 163 | 275.93 | 119.95 |
| 164 | 277.29 | 119.99 |
| 165 | 278.66 | 119.97 |
| 166 | 280.03 | 119.83 |
| 167 | 281.40 | 119.64 |
| 168 | 282.77 | 119.57 |
| 169 | 284.13 | 119.52 |
| 170 | 285.50 | 119.51 |
| 171 | 286.87 | 119.51 |
| 172 | 288.24 | 119.55 |
| 173 | 289.60 | 119.58 |
| 174 | 290.97 | 119.61 |
| 175 | 292.34 | 119.71 |
| 176 | 293.71 | 119.88 |
| 177 | 295.07 | 120.02 |
| 178 | 296.44 | 120.14 |
| 179 | 297.81 | 120.27 |
| 180 | 299.18 | 120.40 |
| 181 | 300.55 | 120.52 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 182 | 301.91 | 120.62 |
| 183 | 303.28 | 120.62 |
| 184 | 304.65 | 120.53 |
| 185 | 306.02 | 120.29 |
| 186 | 307.38 | 120.14 |
| 187 | 308.75 | 120.08 |
| 188 | 310.12 | 120.07 |
| 189 | 311.49 | 120.10 |
| 190 | 312.86 | 120.09 |
| 191 | 314.22 | 120.07 |
| 192 | 315.59 | 120.05 |
| 193 | 316.96 | 120.05 |
| 194 | 318.33 | 120.10 |
| 195 | 319.69 | 120.21 |
| 196 | 321.06 | 120.40 |
| 197 | 322.43 | 120.57 |
| 198 | 323.80 | 120.72 |
| 199 | 325.17 | 120.81 |
| 200 | 326.53 | 120.88 |
| 201 | 327.90 | 120.97 |
| 202 | 329.27 | 121.05 |
| 203 | 330.64 | 121.03 |
| 204 | 332.00 | 121.04 |
| 205 | 333.37 | 121.10 |
| 206 | 334.74 | 121.17 |
| 207 | 336.11 | 121.27 |
| 208 | 337.47 | 121.24 |
| 209 | 339.44 | 121.05 |
| 210 | 341.40 | 120.90 |
| 211 | 343.36 | 120.80 |
| 212 | 345.32 | 120.89 |
| 213 | 347.29 | 121.15 |
| 214 | 349.25 | 121.31 |
| 215 | 351.21 | 121.35 |
| 216 | 353.17 | 121.24 |
| 217 | 355.14 | 120.98 |
| 218 | 357.10 | 120.59 |
| 219 | 359.06 | 120.36 |
| 220 | 361.02 | 120.29 |
| 221 | 362.99 | 120.30 |
| 222 | 364.95 | 120.35 |
| 223 | 366.91 | 120.35 |
| 224 | 368.87 | 120.36 |
| 225 | 370.84 | 120.38 |
| 226 | 372.80 | 120.47 |
| 227 | 374.76 | 120.56 |
| 228 | 376.72 | 120.65 |
| 229 | 378.69 | 120.57 |
| 230 | 380.65 | 120.48 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 231 | 382.61 | 120.36 |
| 232 | 384.57 | 120.34 |
| 233 | 386.54 | 120.38 |
| 234 | 388.50 | 120.46 |
| 235 | 390.46 | 120.49 |
| 236 | 392.42 | 120.69 |
| 237 | 394.38 | 120.95 |
| 238 | 396.35 | 120.98 |
| 239 | 398.31 | 120.93 |
| 240 | 400.27 | 120.88 |
| 241 | 402.23 | 120.86 |
| 242 | 404.20 | 120.89 |
| 243 | 406.16 | 120.95 |
| 244 | 408.12 | 121.04 |
| 245 | 410.08 | 121.12 |
| 246 | 412.05 | 121.15 |
| 247 | 414.01 | 121.16 |
| 248 | 415.97 | 121.17 |
| 249 | 417.93 | 121.20 |
| 250 | 419.90 | 121.22 |
| 251 | 421.86 | 121.10 |
| 252 | 423.82 | 120.95 |
| 253 | 425.78 | 120.94 |
| 254 | 427.75 | 121.02 |
| 255 | 429.71 | 121.07 |
| 256 | 431.67 | 121.21 |
| 257 | 433.63 | 121.35 |
| 258 | 435.60 | 121.42 |
| 259 | 437.56 | 121.45 |
| 260 | 439.52 | 121.33 |
| 261 | 441.48 | 121.30 |
| 262 | 443.45 | 121.33 |
| 263 | 445.41 | 121.42 |
| 264 | 447.37 | 121.47 |
| 265 | 449.33 | 121.52 |
| 266 | 451.29 | 121.53 |
| 267 | 453.26 | 121.63 |
| 268 | 455.22 | 121.85 |
| 269 | 457.18 | 122.27 |
| 270 | 459.14 | 122.57 |
| 271 | 461.11 | 122.76 |
| 272 | 463.07 | 122.82 |
| 273 | 464.65 | 122.66 |
| 274 | 466.23 | 122.44 |
| 275 | 467.80 | 122.48 |
| 276 | 469.38 | 122.49 |
| 277 | 470.96 | 122.45 |
| 278 | 472.54 | 122.35 |
| 279 | 474.12 | 122.24 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 280 | 475.69 | 122.08 |
| 281 | 477.27 | 122.19 |
| 282 | 478.85 | 122.42 |
| 283 | 480.43 | 122.42 |
| 284 | 482.01 | 122.37 |
| 285 | 483.58 | 122.25 |
| 286 | 485.16 | 122.16 |
| 287 | 486.74 | 122.07 |
| 288 | 488.32 | 121.99 |
| 289 | 489.90 | 121.98 |
| 290 | 491.47 | 121.99 |
| 291 | 493.05 | 121.95 |
| 292 | 494.63 | 121.96 |
| 293 | 496.21 | 121.99 |
| 294 | 497.79 | 122.02 |
| 295 | 499.37 | 122.06 |
| 296 | 500.94 | 122.13 |
| 297 | 502.52 | 122.09 |
| 298 | 504.10 | 122.03 |
| 299 | 505.68 | 121.97 |
| 300 | 507.26 | 121.99 |
| 301 | 508.83 | 122.08 |
| 302 | 510.41 | 122.09 |
| 303 | 511.99 | 122.08 |
| 304 | 513.57 | 122.05 |
| 305 | 515.15 | 122.09 |
| 306 | 516.72 | 122.14 |
| 307 | 518.30 | 122.18 |
| 308 | 519.88 | 122.11 |
| 309 | 521.46 | 122.00 |
| 310 | 523.04 | 122.00 |
| 311 | 524.61 | 122.01 |
| 312 | 526.19 | 122.03 |
| 313 | 527.77 | 121.96 |
| 314 | 529.35 | 121.89 |
| 315 | 530.93 | 121.84 |
| 316 | 532.50 | 121.81 |
| 317 | 534.08 | 121.79 |
| 318 | 535.66 | 121.77 |
| 319 | 537.24 | 121.74 |
| 320 | 538.82 | 121.70 |
| 321 | 540.40 | 121.68 |
| 322 | 541.97 | 121.66 |
| 323 | 543.55 | 121.66 |
| 324 | 545.13 | 121.63 |
| 325 | 546.71 | 121.58 |
| 326 | 548.29 | 121.54 |
| 327 | 549.86 | 121.50 |
| 328 | 551.44 | 121.46 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 329 | 553.02 | 121.43 |
| 330 | 554.60 | 121.43 |
| 331 | 556.18 | 121.44 |
| 332 | 557.75 | 121.45 |
| 333 | 559.33 | 121.46 |
| 334 | 560.91 | 121.46 |
| 335 | 562.49 | 121.44 |
| 336 | 564.07 | 121.42 |
| 337 | 565.97 | 121.43 |
| 338 | 567.87 | 121.45 |
| 339 | 569.78 | 121.39 |
| 340 | 571.68 | 121.30 |
| 341 | 573.59 | 121.26 |
| 342 | 575.49 | 121.36 |
| 343 | 577.40 | 121.54 |
| 344 | 579.30 | 121.70 |
| 345 | 581.20 | 121.68 |
| 346 | 583.11 | 121.51 |
| 347 | 585.01 | 121.31 |
| 348 | 586.92 | 121.09 |
| 349 | 588.82 | 120.96 |
| 350 | 590.72 | 120.91 |
| 351 | 592.63 | 120.84 |
| 352 | 594.53 | 120.74 |
| 353 | 596.44 | 120.63 |
| 354 | 598.34 | 120.63 |
| 355 | 600.24 | 120.71 |
| 356 | 602.15 | 120.85 |
| 357 | 604.05 | 120.90 |
| 358 | 605.96 | 120.81 |
| 359 | 607.86 | 120.63 |
| 360 | 609.77 | 120.41 |
| 361 | 611.67 | 120.36 |
| 362 | 613.57 | 120.29 |
| 363 | 615.48 | 120.27 |
| 364 | 617.38 | 120.22 |
| 365 | 619.29 | 120.09 |
| 366 | 621.19 | 120.00 |
| 367 | 623.09 | 119.96 |
| 368 | 625.00 | 120.03 |
| 369 | 626.88 | 120.22 |
| 370 | 628.75 | 120.21 |
| 371 | 630.63 | 120.00 |
| 372 | 632.51 | 119.62 |
| 373 | 634.38 | 119.49 |
| 374 | 636.26 | 119.47 |
| 375 | 638.14 | 119.52 |
| 376 | 640.01 | 119.64 |
| 377 | 641.89 | 119.65 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 378 | 643.77 | 119.55 |
| 379 | 645.64 | 119.34 |
| 380 | 647.52 | 119.06 |
| 381 | 649.40 | 119.04 |
| 382 | 651.27 | 119.07 |
| 383 | 653.15 | 119.03 |
| 384 | 655.02 | 118.82 |
| 385 | 656.90 | 118.72 |
| 386 | 658.78 | 118.68 |
| 387 | 660.65 | 118.66 |
| 388 | 662.53 | 118.63 |
| 389 | 664.41 | 118.61 |
| 390 | 666.28 | 118.58 |
| 391 | 668.16 | 118.55 |
| 392 | 670.04 | 118.52 |
| 393 | 671.91 | 118.47 |
| 394 | 673.79 | 118.55 |
| 395 | 675.67 | 118.80 |
| 396 | 677.54 | 118.91 |
| 397 | 679.42 | 118.94 |
| 398 | 681.30 | 118.89 |
| 399 | 683.17 | 118.76 |
| 400 | 685.05 | 118.80 |
| 401 | 687.41 | 118.84 |
| 402 | 689.77 | 118.88 |
| 403 | 692.13 | 118.92 |
| 404 | 694.48 | 118.95 |
| 405 | 696.84 | 119.01 |
| 406 | 699.20 | 119.17 |
| 407 | 701.56 | 119.42 |
| 408 | 703.92 | 119.54 |
| 409 | 706.28 | 119.26 |
| 410 | 708.63 | 119.09 |
| 411 | 710.99 | 119.05 |
| 412 | 713.35 | 119.13 |
| 413 | 715.71 | 119.11 |
| 414 | 718.07 | 119.16 |
| 415 | 720.43 | 119.33 |
| 416 | 722.78 | 119.45 |
| 417 | 725.14 | 119.51 |
| 418 | 727.50 | 119.49 |
| 419 | 729.86 | 119.44 |
| 420 | 732.22 | 119.40 |
| 421 | 734.58 | 119.42 |
| 422 | 736.93 | 119.50 |
| 423 | 739.29 | 119.60 |
| 424 | 741.65 | 119.68 |
| 425 | 744.01 | 119.85 |
| 426 | 746.37 | 120.24 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 427 | 748.73 | 120.77 |
| 428 | 751.08 | 121.07 |
| 429 | 753.44 | 120.66 |
| 430 | 755.80 | 120.07 |
| 431 | 758.16 | 120.00 |
| 432 | 760.52 | 120.12 |
| 433 | 761.95 | 120.21 |
| 434 | 763.39 | 120.30 |
| 435 | 764.82 | 120.36 |
| 436 | 766.26 | 120.40 |
| 437 | 767.70 | 120.40 |
| 438 | 769.13 | 120.47 |
| 439 | 770.57 | 120.67 |
| 440 | 772.00 | 120.88 |
| 441 | 773.44 | 121.12 |
| 442 | 774.87 | 121.09 |
| 443 | 776.31 | 121.03 |
| 444 | 777.74 | 120.89 |
| 445 | 779.18 | 120.77 |
| 446 | 780.62 | 120.66 |
| 447 | 782.05 | 120.62 |
| 448 | 783.49 | 120.62 |
| 449 | 784.92 | 120.68 |
| 450 | 786.36 | 120.74 |
| 451 | 787.79 | 120.79 |
| 452 | 789.23 | 120.82 |
| 453 | 790.66 | 120.82 |
| 454 | 792.10 | 120.85 |
| 455 | 793.54 | 120.91 |
| 456 | 794.97 | 120.98 |
| 457 | 796.41 | 121.06 |
| 458 | 797.84 | 121.14 |
| 459 | 799.28 | 121.21 |
| 460 | 800.71 | 121.28 |
| 461 | 802.15 | 121.28 |
| 462 | 803.59 | 121.23 |
| 463 | 805.02 | 121.22 |
| 464 | 806.46 | 121.21 |
| 465 | 807.89 | 121.26 |
| 466 | 809.33 | 121.32 |
| 467 | 810.76 | 121.38 |
| 468 | 812.20 | 121.44 |
| 469 | 813.63 | 121.50 |
| 470 | 815.07 | 121.55 |
| 471 | 816.51 | 121.59 |
| 472 | 817.94 | 121.72 |
| 473 | 819.38 | 121.86 |
| 474 | 820.81 | 122.07 |
| 475 | 822.25 | 122.20 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 476 | 823.68 | 122.26 |
| 477 | 825.12 | 122.24 |
| 478 | 826.55 | 122.19 |
| 479 | 827.99 | 122.14 |
| 480 | 829.43 | 122.11 |
| 481 | 830.86 | 122.16 |
| 482 | 832.30 | 122.19 |
| 483 | 833.73 | 122.22 |
| 484 | 835.17 | 122.27 |
| 485 | 836.60 | 122.33 |
| 486 | 838.04 | 122.34 |
| 487 | 839.48 | 122.37 |
| 488 | 840.91 | 122.48 |
| 489 | 842.35 | 122.58 |
| 490 | 843.78 | 122.68 |
| 491 | 845.22 | 122.84 |
| 492 | 846.65 | 123.05 |
| 493 | 848.09 | 123.06 |
| 494 | 849.52 | 123.05 |
| 495 | 850.96 | 123.01 |
| 496 | 852.40 | 122.99 |
| 497 | 853.83 | 123.00 |
| 498 | 855.27 | 123.04 |
| 499 | 856.70 | 123.10 |
| 500 | 858.14 | 123.16 |
| 501 | 859.57 | 123.22 |
| 502 | 861.01 | 123.26 |
| 503 | 862.45 | 123.31 |
| 504 | 863.88 | 123.39 |
| 505 | 865.32 | 123.51 |
| 506 | 866.75 | 123.67 |
| 507 | 868.19 | 123.83 |
| 508 | 869.62 | 123.94 |
| 509 | 871.06 | 123.88 |
| 510 | 872.49 | 123.87 |
| 511 | 873.93 | 123.91 |
| 512 | 875.37 | 123.93 |
| 513 | 876.80 | 123.91 |
| 514 | 878.24 | 123.89 |
| 515 | 879.67 | 123.86 |
| 516 | 881.11 | 123.91 |
| 517 | 882.54 | 123.95 |
| 518 | 883.98 | 124.01 |
| 519 | 885.41 | 124.03 |
| 520 | 886.85 | 124.02 |
| 521 | 888.29 | 124.08 |
| 522 | 889.72 | 124.15 |
| 523 | 891.16 | 124.27 |
| 524 | 892.59 | 124.39 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 525 | 894.03 | 124.49 |
| 526 | 895.46 | 124.68 |
| 527 | 896.90 | 124.93 |
| 528 | 898.34 | 125.00 |
| 529 | 899.77 | 125.02 |
| 530 | 901.21 | 124.95 |
| 531 | 902.64 | 124.90 |
| 532 | 904.08 | 124.89 |
| 533 | 905.51 | 124.96 |
| 534 | 906.95 | 125.10 |
| 535 | 908.38 | 125.20 |
| 536 | 909.82 | 125.28 |
| 537 | 911.26 | 125.36 |
| 538 | 912.69 | 125.43 |
| 539 | 914.13 | 125.52 |
| 540 | 915.56 | 125.63 |
| 541 | 917.00 | 125.77 |
| 542 | 918.43 | 125.94 |
| 543 | 919.87 | 126.10 |
| 544 | 921.30 | 126.12 |
| 545 | 922.74 | 126.14 |
| 546 | 924.18 | 126.16 |
| 547 | 925.61 | 126.15 |
| 548 | 927.05 | 126.11 |
| 549 | 928.48 | 126.12 |
| 550 | 929.92 | 126.14 |
| 551 | 931.35 | 126.24 |
| 552 | 932.79 | 126.31 |
| 553 | 934.23 | 126.33 |
| 554 | 935.66 | 126.38 |
| 555 | 937.10 | 126.46 |
| 556 | 938.53 | 126.56 |
| 557 | 939.97 | 126.66 |
| 558 | 941.40 | 126.77 |
| 559 | 942.84 | 126.86 |
| 560 | 944.27 | 126.86 |
| 561 | 946.25 | 126.87 |
| 562 | 948.22 | 126.83 |
| 563 | 950.19 | 126.80 |
| 564 | 952.16 | 126.76 |
| 565 | 954.14 | 126.73 |
| 566 | 956.11 | 126.70 |
| 567 | 958.08 | 126.64 |
| 568 | 960.05 | 126.62 |
| 569 | 962.03 | 126.61 |
| 570 | 964.00 | 126.61 |
| 571 | 965.97 | 126.62 |
| 572 | 967.94 | 126.60 |
| 573 | 969.92 | 126.44 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 574 | 971.89 | 126.25 |
| 575 | 973.86 | 126.10 |
| 576 | 975.83 | 125.98 |
| 577 | 977.81 | 125.88 |
| 578 | 979.78 | 125.78 |
| 579 | 981.75 | 125.67 |
| 580 | 983.72 | 125.55 |
| 581 | 985.70 | 125.47 |
| 582 | 987.67 | 125.41 |
| 583 | 989.64 | 125.36 |
| 584 | 991.61 | 125.30 |
| 585 | 993.58 | 125.24 |
| 586 | 995.56 | 125.16 |
| 587 | 997.53 | 125.06 |
| 588 | 999.50 | 125.01 |
| 589 | 1001.47 | 125.04 |
| 590 | 1003.45 | 125.09 |
| 591 | 1005.42 | 125.18 |
| 592 | 1007.39 | 125.21 |
| 593 | 1009.36 | 125.18 |
| 594 | 1011.34 | 125.02 |
| 595 | 1013.31 | 124.80 |
| 596 | 1015.28 | 124.80 |
| 597 | 1017.25 | 124.91 |
| 598 | 1019.23 | 125.03 |
| 599 | 1021.20 | 125.15 |
| 600 | 1023.17 | 125.26 |
| 601 | 1025.14 | 125.40 |
| 602 | 1027.12 | 125.41 |
| 603 | 1029.09 | 125.31 |
| 604 | 1031.06 | 125.18 |
| 605 | 1033.03 | 125.08 |
| 606 | 1035.01 | 125.06 |
| 607 | 1036.98 | 125.10 |
| 608 | 1038.95 | 125.08 |
| 609 | 1040.92 | 125.02 |
| 610 | 1042.90 | 125.05 |
| 611 | 1044.87 | 125.11 |
| 612 | 1046.84 | 125.21 |
| 613 | 1048.81 | 125.13 |
| 614 | 1050.78 | 124.97 |
| 615 | 1052.76 | 124.82 |
| 616 | 1054.73 | 124.70 |
| 617 | 1056.70 | 124.71 |
| 618 | 1058.67 | 124.94 |
| 619 | 1060.65 | 125.11 |
| 620 | 1062.62 | 125.08 |
| 621 | 1064.59 | 124.87 |
| 622 | 1066.56 | 124.72 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 623 | 1068.54 | 124.62 |
| 624 | 1070.51 | 124.58 |
| 625 | 1072.15 | 124.42 |
| 626 | 1073.78 | 124.24 |
| 627 | 1075.42 | 124.05 |
| 628 | 1077.06 | 123.93 |
| 629 | 1078.69 | 123.85 |
| 630 | 1080.33 | 123.81 |
| 631 | 1081.97 | 123.82 |
| 632 | 1083.60 | 123.85 |
| 633 | 1085.24 | 123.89 |
| 634 | 1086.88 | 123.92 |
| 635 | 1088.51 | 123.93 |
| 636 | 1090.15 | 123.92 |
| 637 | 1091.79 | 123.94 |
| 638 | 1093.43 | 123.94 |
| 639 | 1095.06 | 123.93 |
| 640 | 1096.70 | 123.96 |
| 641 | 1098.34 | 123.98 |
| 642 | 1099.97 | 123.96 |
| 643 | 1101.61 | 123.79 |
| 644 | 1103.25 | 123.60 |
| 645 | 1104.88 | 123.45 |
| 646 | 1106.52 | 123.30 |
| 647 | 1108.16 | 123.18 |
| 648 | 1109.79 | 123.06 |
| 649 | 1111.43 | 122.98 |
| 650 | 1113.07 | 122.90 |
| 651 | 1114.70 | 122.84 |
| 652 | 1116.34 | 122.74 |
| 653 | 1117.98 | 122.63 |
| 654 | 1119.62 | 122.53 |
| 655 | 1121.25 | 122.41 |
| 656 | 1122.89 | 122.25 |
| 657 | 1124.53 | 122.15 |
| 658 | 1126.16 | 122.05 |
| 659 | 1127.80 | 121.97 |
| 660 | 1129.44 | 121.89 |
| 661 | 1131.07 | 121.86 |
| 662 | 1132.71 | 121.89 |
| 663 | 1134.35 | 121.79 |
| 664 | 1135.98 | 121.67 |
| 665 | 1137.62 | 121.51 |
| 666 | 1139.26 | 121.51 |
| 667 | 1140.89 | 121.49 |
| 668 | 1142.53 | 121.41 |
| 669 | 1144.17 | 121.37 |
| 670 | 1145.81 | 121.34 |
| 671 | 1147.44 | 121.33 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 672 | 1149.08 | 121.30 |
| 673 | 1150.72 | 121.26 |
| 674 | 1152.35 | 121.25 |
| 675 | 1153.99 | 121.27 |
| 676 | 1155.63 | 121.29 |
| 677 | 1157.26 | 121.30 |
| 678 | 1158.90 | 121.30 |
| 679 | 1160.54 | 121.26 |
| 680 | 1162.17 | 121.09 |
| 681 | 1163.81 | 120.90 |
| 682 | 1165.45 | 120.73 |
| 683 | 1167.08 | 120.67 |
| 684 | 1168.72 | 120.60 |
| 685 | 1170.36 | 120.51 |
| 686 | 1171.99 | 120.50 |
| 687 | 1173.63 | 120.48 |
| 688 | 1175.27 | 120.44 |
| 689 | 1176.87 | 120.36 |
| 690 | 1178.48 | 120.33 |
| 691 | 1180.08 | 120.36 |
| 692 | 1181.68 | 120.34 |
| 693 | 1183.29 | 120.29 |
| 694 | 1184.89 | 120.23 |
| 695 | 1186.50 | 120.19 |
| 696 | 1188.10 | 120.16 |
| 697 | 1189.70 | 120.13 |
| 698 | 1191.31 | 120.09 |
| 699 | 1192.91 | 120.04 |
| 700 | 1194.52 | 120.06 |
| 701 | 1196.12 | 120.07 |
| 702 | 1197.72 | 120.07 |
| 703 | 1199.33 | 120.03 |
| 704 | 1200.93 | 120.01 |
| 705 | 1202.54 | 120.03 |
| 706 | 1204.14 | 120.08 |
| 707 | 1205.74 | 120.11 |
| 708 | 1207.35 | 120.08 |
| 709 | 1208.95 | 120.09 |
| 710 | 1210.55 | 120.13 |
| 711 | 1212.16 | 120.14 |
| 712 | 1213.76 | 120.14 |
| 713 | 1215.37 | 120.14 |
| 714 | 1216.97 | 120.18 |
| 715 | 1218.57 | 120.18 |
| 716 | 1220.18 | 120.13 |
| 717 | 1221.78 | 120.13 |
| 718 | 1223.39 | 120.17 |
| 719 | 1224.99 | 120.30 |
| 720 | 1226.59 | 120.42 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 721 | 1228.49 | 120.58 |
| 722 | 1230.38 | 120.74 |
| 723 | 1232.27 | 120.89 |
| 724 | 1234.17 | 121.03 |
| 725 | 1236.06 | 121.15 |
| 726 | 1237.95 | 121.12 |
| 727 | 1239.85 | 121.23 |
| 728 | 1241.74 | 121.33 |
| 729 | 1243.63 | 121.30 |
| 730 | 1245.52 | 121.31 |
| 731 | 1247.42 | 121.35 |
| 732 | 1249.31 | 121.43 |
| 733 | 1251.20 | 121.52 |
| 734 | 1253.10 | 121.40 |
| 735 | 1254.99 | 121.38 |
| 736 | 1256.88 | 121.41 |
| 737 | 1258.78 | 121.46 |
| 738 | 1260.67 | 121.51 |
| 739 | 1262.56 | 121.55 |
| 740 | 1264.45 | 121.55 |
| 741 | 1266.35 | 121.52 |
| 742 | 1268.24 | 121.57 |
| 743 | 1270.13 | 121.62 |
| 744 | 1272.03 | 121.68 |
| 745 | 1273.92 | 121.74 |
| 746 | 1275.81 | 121.78 |
| 747 | 1277.71 | 121.73 |
| 748 | 1279.60 | 121.83 |
| 749 | 1281.49 | 121.95 |
| 750 | 1283.38 | 122.07 |
| 751 | 1285.28 | 122.18 |
| 752 | 1287.17 | 122.28 |
| 753 | 1288.92 | 122.38 |
| 754 | 1290.68 | 122.47 |
| 755 | 1292.43 | 122.52 |
| 756 | 1294.19 | 122.49 |
| 757 | 1295.94 | 122.50 |
| 758 | 1297.70 | 122.58 |
| 759 | 1299.45 | 122.64 |
| 760 | 1301.21 | 122.70 |
| 761 | 1302.96 | 122.69 |
| 762 | 1304.71 | 122.61 |
| 763 | 1306.47 | 122.60 |
| 764 | 1308.22 | 122.70 |
| 765 | 1309.98 | 122.84 |
| 766 | 1311.73 | 122.95 |
| 767 | 1313.49 | 123.00 |
| 768 | 1315.24 | 122.96 |
| 769 | 1316.70 | 122.87 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 770 | 1318.16 | 122.72 |
| 771 | 1319.62 | 122.55 |
| 772 | 1321.08 | 122.42 |
| 773 | 1322.54 | 122.34 |
| 774 | 1324.00 | 122.27 |
| 775 | 1325.46 | 122.22 |
| 776 | 1326.92 | 122.16 |
| 777 | 1328.38 | 122.00 |
| 778 | 1329.84 | 121.81 |
| 779 | 1331.30 | 121.67 |
| 780 | 1332.76 | 121.61 |
| 781 | 1334.22 | 121.61 |
| 782 | 1335.68 | 121.61 |
| 783 | 1337.14 | 121.62 |
| 784 | 1338.60 | 121.63 |
| 785 | 1340.06 | 121.65 |
| 786 | 1341.52 | 121.66 |
| 787 | 1342.98 | 121.68 |
| 788 | 1344.44 | 121.69 |
| 789 | 1345.90 | 121.69 |
| 790 | 1347.36 | 121.70 |
| 791 | 1348.82 | 121.71 |
| 792 | 1350.28 | 121.73 |
| 793 | 1351.74 | 121.74 |
| 794 | 1353.20 | 121.76 |
| 795 | 1354.66 | 121.77 |
| 796 | 1356.12 | 121.79 |
| 797 | 1357.58 | 121.78 |
| 798 | 1359.04 | 121.74 |
| 799 | 1360.50 | 121.70 |
| 800 | 1361.96 | 121.65 |
| 801 | 1363.42 | 121.62 |
| 802 | 1364.88 | 121.60 |
| 803 | 1366.34 | 121.57 |
| 804 | 1367.80 | 121.53 |
| 805 | 1369.26 | 121.51 |
| 806 | 1370.72 | 121.51 |
| 807 | 1372.18 | 121.51 |
| 808 | 1373.64 | 121.50 |
| 809 | 1375.10 | 121.47 |
| 810 | 1376.56 | 121.43 |
| 811 | 1378.02 | 121.39 |
| 812 | 1379.47 | 121.37 |
| 813 | 1380.93 | 121.34 |
| 814 | 1382.39 | 121.32 |
| 815 | 1383.85 | 121.28 |
| 816 | 1385.31 | 121.25 |
| 817 | 1386.77 | 121.23 |
| 818 | 1388.23 | 121.21 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 819 | 1389.69 | 121.15 |
| 820 | 1391.15 | 121.09 |
| 821 | 1392.61 | 121.01 |
| 822 | 1394.07 | 120.94 |
| 823 | 1395.53 | 120.87 |
| 824 | 1396.99 | 120.84 |
| 825 | 1398.45 | 120.81 |
| 826 | 1399.91 | 120.79 |
| 827 | 1401.37 | 120.76 |
| 828 | 1402.83 | 120.77 |
| 829 | 1404.29 | 120.76 |
| 830 | 1405.75 | 120.75 |
| 831 | 1407.21 | 120.74 |
| 832 | 1408.67 | 120.73 |
| 833 | 1410.67 | 120.71 |
| 834 | 1412.67 | 120.66 |
| 835 | 1414.67 | 120.61 |
| 836 | 1416.67 | 120.55 |
| 837 | 1418.67 | 120.48 |
| 838 | 1420.67 | 120.43 |
| 839 | 1422.67 | 120.41 |
| 840 | 1424.67 | 120.40 |
| 841 | 1426.67 | 120.37 |
| 842 | 1428.67 | 120.35 |
| 843 | 1430.67 | 120.33 |
| 844 | 1432.67 | 120.31 |
| 845 | 1434.67 | 120.32 |
| 846 | 1436.67 | 120.34 |
| 847 | 1438.67 | 120.35 |
| 848 | 1440.67 | 120.32 |
| 849 | 1442.67 | 120.32 |
| 850 | 1444.67 | 120.34 |
| 851 | 1446.67 | 120.34 |
| 852 | 1448.67 | 120.33 |
| 853 | 1450.67 | 120.32 |
| 854 | 1452.67 | 120.27 |
| 855 | 1454.67 | 120.23 |
| 856 | 1456.67 | 120.28 |
| 857 | 1458.67 | 120.40 |
| 858 | 1460.67 | 120.48 |
| 859 | 1462.67 | 120.55 |
| 860 | 1464.67 | 120.62 |
| 861 | 1466.67 | 120.69 |
| 862 | 1468.67 | 120.76 |
| 863 | 1470.67 | 120.82 |
| 864 | 1472.67 | 120.88 |
| 865 | 1474.75 | 120.93 |
| 866 | 1476.83 | 120.91 |
| 867 | 1478.91 | 120.81 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 868 | 1480.99 | 120.74 |
| 869 | 1483.07 | 120.71 |
| 870 | 1485.15 | 120.74 |
| 871 | 1487.23 | 120.79 |
| 872 | 1489.31 | 120.79 |
| 873 | 1491.39 | 120.78 |
| 874 | 1493.47 | 120.79 |
| 875 | 1495.55 | 120.79 |
| 876 | 1497.63 | 120.77 |
| 877 | 1499.71 | 120.74 |
| 878 | 1501.79 | 120.72 |
| 879 | 1503.87 | 120.70 |
| 880 | 1505.95 | 120.67 |
| 881 | 1507.59 | 120.65 |
| 882 | 1509.22 | 120.62 |
| 883 | 1510.86 | 120.57 |
| 884 | 1512.50 | 120.53 |
| 885 | 1514.13 | 120.51 |
| 886 | 1515.77 | 120.65 |
| 887 | 1517.40 | 120.71 |
| 888 | 1519.04 | 120.65 |
| 889 | 1520.68 | 120.44 |
| 890 | 1522.31 | 120.26 |
| 891 | 1523.95 | 120.13 |
| 892 | 1525.58 | 120.16 |
| 893 | 1527.22 | 120.19 |
| 894 | 1528.86 | 120.19 |
| 895 | 1530.49 | 120.18 |
| 896 | 1532.13 | 120.17 |
| 897 | 1533.76 | 120.13 |
| 898 | 1535.40 | 120.10 |
| 899 | 1537.03 | 120.08 |
| 900 | 1538.67 | 120.11 |
| 901 | 1540.31 | 120.15 |
| 902 | 1541.94 | 120.17 |
| 903 | 1543.58 | 120.20 |
| 904 | 1545.21 | 120.24 |
| 905 | 1546.85 | 120.27 |
| 906 | 1548.49 | 120.32 |
| 907 | 1550.12 | 120.37 |
| 908 | 1551.76 | 120.42 |
| 909 | 1553.39 | 120.45 |
| 910 | 1555.03 | 120.48 |
| 911 | 1556.67 | 120.49 |
| 912 | 1558.30 | 120.48 |
| 913 | 1559.97 | 120.46 |
| 914 | 1561.64 | 120.44 |
| 915 | 1563.30 | 120.42 |
| 916 | 1564.97 | 120.40 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 917 | 1566.64 | 120.37 |
| 918 | 1568.31 | 120.34 |
| 919 | 1569.97 | 120.31 |
| 920 | 1571.64 | 120.28 |
| 921 | 1573.31 | 120.24 |
| 922 | 1574.97 | 120.18 |
| 923 | 1576.64 | 120.11 |
| 924 | 1578.31 | 120.05 |
| 925 | 1579.98 | 120.00 |
| 926 | 1581.64 | 120.00 |
| 927 | 1583.31 | 119.98 |
| 928 | 1584.98 | 119.95 |
| 929 | 1586.65 | 119.90 |
| 930 | 1588.31 | 119.88 |
| 931 | 1589.98 | 119.86 |
| 932 | 1591.65 | 119.87 |
| 933 | 1593.31 | 119.86 |
| 934 | 1594.98 | 119.85 |
| 935 | 1596.65 | 119.82 |
| 936 | 1598.32 | 119.81 |
| 937 | 1599.98 | 119.79 |
| 938 | 1601.65 | 119.82 |
| 939 | 1603.32 | 119.85 |
| 940 | 1604.99 | 119.89 |
| 941 | 1606.65 | 119.94 |
| 942 | 1608.32 | 119.98 |
| 943 | 1609.99 | 120.01 |
| 944 | 1611.66 | 120.04 |
| 945 | 1613.07 | 120.05 |
| 946 | 1614.48 | 120.05 |
| 947 | 1615.89 | 120.07 |
| 948 | 1617.30 | 120.09 |
| 949 | 1618.71 | 120.13 |
| 950 | 1620.12 | 120.14 |
| 951 | 1621.53 | 120.16 |
| 952 | 1622.94 | 120.18 |
| 953 | 1624.36 | 120.21 |
| 954 | 1625.77 | 120.24 |
| 955 | 1627.18 | 120.26 |
| 956 | 1628.59 | 120.29 |
| 957 | 1630.00 | 120.37 |
| 958 | 1631.41 | 120.47 |
| 959 | 1632.82 | 120.50 |
| 960 | 1634.23 | 120.48 |
| 961 | 1635.64 | 120.47 |
| 962 | 1637.06 | 120.46 |
| 963 | 1638.47 | 120.49 |
| 964 | 1639.88 | 120.52 |
| 965 | 1641.29 | 120.55 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 966 | 1642.70 | 120.58 |
| 967 | 1644.11 | 120.62 |
| 968 | 1645.52 | 120.65 |
| 969 | 1646.93 | 120.68 |
| 970 | 1648.34 | 120.68 |
| 971 | 1649.76 | 120.66 |
| 972 | 1651.17 | 120.65 |
| 973 | 1652.58 | 120.64 |
| 974 | 1653.99 | 120.59 |
| 975 | 1655.40 | 120.54 |
| 976 | 1656.81 | 120.47 |
| 977 | 1658.22 | 120.40 |
| 978 | 1659.63 | 120.32 |
| 979 | 1661.04 | 120.27 |
| 980 | 1662.46 | 120.24 |
| 981 | 1663.87 | 120.25 |
| 982 | 1665.28 | 120.25 |
| 983 | 1666.69 | 120.27 |
| 984 | 1668.10 | 120.29 |
| 985 | 1669.51 | 120.31 |
| 986 | 1670.92 | 120.33 |
| 987 | 1672.33 | 120.34 |
| 988 | 1673.74 | 120.32 |
| 989 | 1675.16 | 120.29 |
| 990 | 1676.57 | 120.26 |
| 991 | 1677.98 | 120.23 |
| 992 | 1679.39 | 120.21 |
| 993 | 1680.80 | 120.19 |
| 994 | 1682.21 | 120.18 |
| 995 | 1683.62 | 120.17 |
| 996 | 1685.03 | 120.16 |
| 997 | 1686.44 | 120.14 |
| 998 | 1687.86 | 120.13 |
| 999 | 1689.27 | 120.11 |
| 1000 | 1690.68 | 120.08 |
| 1001 | 1692.09 | 120.07 |
| 1002 | 1693.50 | 120.06 |
| 1003 | 1694.91 | 120.02 |
| 1004 | 1696.32 | 120.00 |
| 1005 | 1697.73 | 120.00 |
| 1006 | 1699.14 | 119.99 |
| 1007 | 1700.56 | 119.97 |
| 1008 | 1701.97 | 119.98 |
| 1009 | 1703.85 | 119.99 |
| 1010 | 1705.73 | 119.97 |
| 1011 | 1707.61 | 119.98 |
| 1012 | 1709.49 | 120.01 |
| 1013 | 1711.38 | 119.97 |
| 1014 | 1713.26 | 119.97 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1015 | 1715.14 | 119.92 |
| 1016 | 1717.02 | 119.81 |
| 1017 | 1718.90 | 119.78 |
| 1018 | 1720.79 | 119.79 |
| 1019 | 1722.67 | 119.99 |
| 1020 | 1724.55 | 120.19 |
| 1021 | 1726.43 | 120.28 |
| 1022 | 1728.32 | 120.30 |
| 1023 | 1730.20 | 120.29 |
| 1024 | 1732.08 | 120.33 |
| 1025 | 1734.49 | 120.30 |
| 1026 | 1736.89 | 120.25 |
| 1027 | 1739.30 | 120.28 |
| 1028 | 1741.71 | 120.24 |
| 1029 | 1744.12 | 120.04 |
| 1030 | 1746.52 | 119.92 |
| 1031 | 1748.93 | 120.03 |
| 1032 | 1751.34 | 120.14 |
| 1033 | 1753.75 | 120.30 |
| 1034 | 1756.15 | 120.54 |
| 1035 | 1758.56 | 120.69 |
| 1036 | 1760.97 | 120.65 |
| 1037 | 1763.38 | 120.77 |
| 1038 | 1765.78 | 120.79 |
| 1039 | 1768.19 | 120.69 |
| 1040 | 1770.60 | 120.43 |
| 1041 | 1773.01 | 120.51 |
| 1042 | 1775.41 | 120.34 |
| 1043 | 1777.82 | 120.35 |
| 1044 | 1780.23 | 120.37 |
| 1045 | 1782.64 | 120.40 |
| 1046 | 1785.04 | 120.37 |
| 1047 | 1787.45 | 120.37 |
| 1048 | 1789.86 | 120.49 |
| 1049 | 1792.27 | 120.52 |
| 1050 | 1794.67 | 120.29 |
| 1051 | 1797.08 | 120.14 |
| 1052 | 1799.49 | 120.21 |
| 1053 | 1801.90 | 120.24 |
| 1054 | 1804.30 | 120.26 |
| 1055 | 1806.71 | 120.26 |
| 1056 | 1809.12 | 120.12 |
| 1057 | 1811.31 | 119.72 |
| 1058 | 1813.50 | 119.97 |
| 1059 | 1815.70 | 120.13 |
| 1060 | 1817.89 | 120.23 |
| 1061 | 1820.08 | 120.38 |
| 1062 | 1822.27 | 120.56 |
| 1063 | 1824.46 | 120.77 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1064 | 1826.66 | 120.90 |
| 1065 | 1828.85 | 120.97 |
| 1066 | 1831.04 | 121.04 |
| 1067 | 1833.23 | 121.02 |
| 1068 | 1835.43 | 121.05 |
| 1069 | 1837.62 | 121.13 |
| 1070 | 1839.81 | 121.24 |
| 1071 | 1842.00 | 121.20 |
| 1072 | 1844.20 | 121.13 |
| 1073 | 1846.39 | 121.20 |
| 1074 | 1848.58 | 121.28 |
| 1075 | 1850.77 | 121.29 |
| 1076 | 1852.97 | 121.45 |
| 1077 | 1855.16 | 121.65 |
| 1078 | 1857.35 | 121.74 |
| 1079 | 1859.54 | 121.83 |
| 1080 | 1861.73 | 121.91 |
| 1081 | 1863.93 | 121.97 |
| 1082 | 1866.12 | 122.06 |
| 1083 | 1868.31 | 122.15 |
| 1084 | 1870.50 | 122.22 |
| 1085 | 1872.70 | 122.32 |
| 1086 | 1874.89 | 122.49 |
| 1087 | 1877.08 | 122.72 |
| 1088 | 1879.27 | 122.80 |
| 1089 | 1881.31 | 122.81 |
| 1090 | 1883.35 | 122.76 |
| 1091 | 1885.39 | 122.54 |
| 1092 | 1887.43 | 122.45 |
| 1093 | 1889.47 | 122.35 |
| 1094 | 1891.51 | 122.25 |
| 1095 | 1893.55 | 122.15 |
| 1096 | 1895.59 | 122.04 |
| 1097 | 1897.63 | 121.96 |
| 1098 | 1899.67 | 121.88 |
| 1099 | 1901.70 | 121.88 |
| 1100 | 1903.74 | 121.96 |
| 1101 | 1905.78 | 122.09 |
| 1102 | 1907.82 | 122.11 |
| 1103 | 1909.86 | 122.02 |
| 1104 | 1911.90 | 121.92 |
| 1105 | 1913.94 | 121.92 |
| 1106 | 1915.98 | 122.00 |
| 1107 | 1918.02 | 121.99 |
| 1108 | 1920.06 | 122.01 |
| 1109 | 1922.10 | 122.01 |
| 1110 | 1924.14 | 121.97 |
| 1111 | 1926.17 | 121.91 |
| 1112 | 1928.21 | 121.92 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1113 | 1930.25 | 122.28 |
| 1114 | 1932.29 | 122.35 |
| 1115 | 1934.33 | 122.38 |
| 1116 | 1936.37 | 122.40 |
| 1117 | 1938.41 | 122.43 |
| 1118 | 1940.45 | 122.43 |
| 1119 | 1942.49 | 122.46 |
| 1120 | 1944.53 | 122.47 |
| 1121 | 1947.02 | 122.41 |
| 1122 | 1949.52 | 122.35 |
| 1123 | 1952.01 | 122.29 |
| 1124 | 1954.51 | 122.24 |
| 1125 | 1957.00 | 122.17 |
| 1126 | 1959.50 | 122.12 |
| 1127 | 1961.99 | 122.13 |
| 1128 | 1964.49 | 122.06 |
| 1129 | 1966.98 | 121.95 |
| 1130 | 1969.48 | 121.95 |
| 1131 | 1971.97 | 121.95 |
| 1132 | 1974.47 | 121.95 |
| 1133 | 1976.96 | 121.95 |
| 1134 | 1979.46 | 121.89 |
| 1135 | 1981.95 | 121.90 |
| 1136 | 1984.45 | 121.95 |
| 1137 | 1986.94 | 122.15 |
| 1138 | 1989.44 | 122.53 |
| 1139 | 1991.93 | 123.10 |
| 1140 | 1994.43 | 123.88 |
| 1141 | 1996.92 | 124.63 |
| 1142 | 1999.42 | 125.14 |
| 1143 | 2001.91 | 125.62 |
| 1144 | 2004.41 | 125.84 |
| 1145 | 2006.90 | 125.75 |
| 1146 | 2009.40 | 125.65 |
| 1147 | 2011.89 | 125.60 |
| 1148 | 2014.39 | 125.68 |
| 1149 | 2016.88 | 125.89 |
| 1150 | 2019.38 | 126.09 |
| 1151 | 2021.87 | 126.26 |
| 1152 | 2024.37 | 126.28 |

Comment:

## Weir Cross Section: X-0130W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 92.06 |
| 1 | 1.52 | 91.91 |
| 2 | 3.03 | 91.86 |
| 3 | 4.55 | 91.89 |
| 4 | 6.07 | 91.95 |
| 5 | 7.58 | 91.95 |
| 6 | 9.10 | 91.82 |
| 7 | 10.62 | 91.51 |
| 8 | 12.13 | 91.55 |
| 9 | 13.65 | 91.68 |
| 10 | 15.17 | 91.89 |
| 11 | 16.69 | 91.92 |
| 12 | 18.20 | 91.77 |
| 13 | 19.72 | 91.54 |
| 14 | 21.24 | 91.31 |
| 15 | 22.75 | 91.10 |
| 16 | 24.27 | 90.92 |
| 17 | 25.79 | 90.76 |
| 18 | 27.30 | 90.74 |
| 19 | 28.82 | 90.72 |
| 20 | 30.34 | 90.70 |
| 21 | 31.85 | 90.65 |
| 22 | 33.37 | 90.55 |
| 23 | 34.89 | 90.48 |
| 24 | 36.40 | 90.41 |
| 25 | 37.92 | 90.34 |
| 26 | 39.44 | 90.27 |
| 27 | 40.95 | 90.21 |
| 28 | 42.47 | 90.14 |
| 29 | 43.99 | 90.08 |
| 30 | 45.51 | 90.02 |
| 31 | 47.02 | 90.00 |
| 32 | 48.54 | 90.01 |
| 33 | 50.06 | 89.90 |
| 34 | 51.57 | 89.78 |
| 35 | 53.09 | 89.63 |
| 36 | 54.61 | 89.57 |
| 37 | 56.12 | 89.52 |
| 38 | 57.64 | 89.42 |
| 39 | 59.16 | 89.35 |
| 40 | 60.67 | 89.31 |
| 41 | 62.19 | 89.26 |
| 42 | 63.71 | 89.20 |
| 43 | 65.22 | 89.15 |
| 44 | 66.74 | 89.11 |
| 45 | 68.26 | 89.09 |
| 46 | 69.78 | 89.01 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 47 | 71.29 | 88.92 |
| 48 | 72.81 | 88.84 |
| 49 | 74.33 | 88.80 |
| 50 | 75.84 | 88.78 |
| 51 | 77.36 | 88.68 |
| 52 | 78.88 | 88.58 |
| 53 | 80.39 | 88.52 |
| 54 | 81.91 | 88.50 |
| 55 | 83.43 | 88.53 |
| 56 | 84.94 | 88.53 |
| 57 | 86.46 | 88.51 |
| 58 | 87.98 | 88.48 |
| 59 | 89.49 | 88.48 |
| 60 | 91.01 | 88.50 |
| 61 | 92.53 | 88.61 |
| 62 | 94.04 | 88.71 |
| 63 | 95.56 | 88.75 |
| 64 | 97.08 | 88.69 |
| 65 | 98.60 | 88.59 |
| 66 | 100.11 | 88.57 |
| 67 | 101.63 | 88.49 |
| 68 | 103.15 | 88.34 |
| 69 | 104.66 | 88.17 |
| 70 | 106.18 | 87.99 |
| 71 | 107.70 | 87.85 |
| 72 | 109.21 | 87.74 |
| 73 | 110.73 | 87.67 |
| 74 | 112.25 | 87.60 |
| 75 | 113.76 | 87.54 |
| 76 | 115.28 | 87.49 |
| 77 | 116.80 | 87.46 |
| 78 | 118.31 | 87.47 |
| 79 | 119.83 | 87.42 |
| 80 | 121.35 | 87.36 |
| 81 | 122.86 | 87.27 |
| 82 | 124.38 | 87.19 |
| 83 | 125.90 | 87.11 |
| 84 | 127.42 | 87.05 |
| 85 | 128.93 | 86.98 |
| 86 | 130.45 | 86.89 |
| 87 | 131.97 | 86.79 |
| 88 | 133.48 | 86.69 |
| 89 | 135.00 | 86.59 |
| 90 | 136.52 | 86.51 |
| 91 | 138.03 | 86.46 |
| 92 | 139.55 | 86.38 |
| 93 | 141.07 | 86.27 |
| 94 | 142.58 | 86.17 |
| 95 | 144.10 | 86.08 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 96 | 145.62 | 85.96 |
| 97 | 147.13 | 85.83 |
| 98 | 148.65 | 85.69 |
| 99 | 150.17 | 85.58 |
| 100 | 151.68 | 85.42 |
| 101 | 153.20 | 85.17 |
| 102 | 154.72 | 84.99 |
| 103 | 156.24 | 84.84 |
| 104 | 157.75 | 84.65 |
| 105 | 159.27 | 84.45 |
| 106 | 160.79 | 84.24 |
| 107 | 162.30 | 84.00 |
| 108 | 163.82 | 83.77 |
| 109 | 165.34 | 83.62 |
| 110 | 166.85 | 83.47 |
| 111 | 168.37 | 83.31 |
| 112 | 169.89 | 83.18 |
| 113 | 171.40 | 83.05 |
| 114 | 172.92 | 82.91 |
| 115 | 174.44 | 82.75 |
| 116 | 175.95 | 82.59 |
| 117 | 177.47 | 82.41 |
| 118 | 178.99 | 82.24 |
| 119 | 180.50 | 82.15 |
| 120 | 182.02 | 82.01 |
| 121 | 183.54 | 81.82 |
| 122 | 185.06 | 81.63 |
| 123 | 186.57 | 81.47 |
| 124 | 188.09 | 81.37 |
| 125 | 189.61 | 81.27 |
| 126 | 191.12 | 81.16 |
| 127 | 192.64 | 81.08 |
| 128 | 194.16 | 80.98 |
| 129 | 195.67 | 80.86 |
| 130 | 197.19 | 80.75 |
| 131 | 198.71 | 80.65 |
| 132 | 200.22 | 80.53 |
| 133 | 201.74 | 80.41 |
| 134 | 203.26 | 80.32 |
| 135 | 204.77 | 80.25 |
| 136 | 206.29 | 80.17 |
| 137 | 207.81 | 80.08 |
| 138 | 209.33 | 79.99 |
| 139 | 210.84 | 79.89 |
| 140 | 212.36 | 79.83 |
| 141 | 213.88 | 79.79 |
| 142 | 215.39 | 79.76 |
| 143 | 216.91 | 79.74 |
| 144 | 218.43 | 79.75 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 145 | 219.94 | 79.75 |
| 146 | 221.46 | 79.74 |
| 147 | 222.98 | 79.78 |
| 148 | 224.49 | 79.77 |
| 149 | 226.01 | 79.72 |
| 150 | 227.53 | 79.70 |
| 151 | 229.04 | 79.68 |
| 152 | 230.56 | 79.63 |
| 153 | 232.08 | 79.61 |
| 154 | 233.59 | 79.59 |
| 155 | 235.11 | 79.58 |
| 156 | 236.63 | 79.57 |
| 157 | 238.15 | 79.62 |
| 158 | 239.66 | 79.67 |
| 159 | 241.18 | 79.72 |
| 160 | 242.70 | 79.67 |
| 161 | 244.21 | 79.63 |
| 162 | 245.73 | 79.64 |
| 163 | 247.25 | 79.64 |
| 164 | 248.76 | 79.65 |
| 165 | 250.28 | 79.62 |
| 166 | 251.80 | 79.58 |
| 167 | 253.31 | 79.55 |
| 168 | 254.83 | 79.55 |
| 169 | 256.35 | 79.58 |
| 170 | 257.86 | 79.56 |
| 171 | 259.38 | 79.53 |
| 172 | 260.90 | 79.49 |
| 173 | 262.41 | 79.42 |
| 174 | 263.93 | 79.35 |
| 175 | 265.45 | 79.22 |
| 176 | 266.97 | 79.11 |
| 177 | 268.48 | 79.02 |
| 178 | 270.00 | 78.94 |
| 179 | 271.52 | 78.88 |
| 180 | 273.03 | 78.83 |
| 181 | 274.55 | 78.75 |
| 182 | 276.07 | 78.64 |
| 183 | 277.58 | 78.50 |
| 184 | 279.10 | 78.36 |
| 185 | 280.62 | 78.24 |
| 186 | 282.13 | 78.11 |
| 187 | 283.65 | 77.98 |
| 188 | 285.17 | 77.88 |
| 189 | 286.68 | 77.79 |
| 190 | 288.20 | 77.68 |
| 191 | 289.72 | 77.56 |
| 192 | 291.23 | 77.44 |
| 193 | 292.75 | 77.31 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 194 | 294.27 | 77.19 |
| 195 | 295.79 | 77.03 |
| 196 | 297.30 | 76.91 |
| 197 | 298.82 | 76.80 |
| 198 | 300.34 | 76.60 |
| 199 | 301.85 | 76.41 |
| 200 | 303.37 | 76.26 |
| 201 | 304.89 | 76.08 |
| 202 | 306.40 | 75.88 |
| 203 | 307.92 | 75.54 |
| 204 | 309.44 | 75.25 |
| 205 | 310.95 | 75.09 |
| 206 | 312.47 | 74.92 |
| 207 | 313.99 | 74.74 |
| 208 | 315.50 | 74.50 |
| 209 | 317.02 | 74.25 |
| 210 | 318.54 | 73.98 |
| 211 | 320.05 | 73.74 |
| 212 | 321.57 | 73.51 |
| 213 | 323.09 | 73.26 |
| 214 | 324.61 | 73.01 |
| 215 | 326.12 | 72.77 |
| 216 | 327.64 | 72.51 |
| 217 | 329.16 | 72.24 |
| 218 | 330.67 | 71.96 |
| 219 | 332.19 | 71.70 |
| 220 | 333.71 | 71.47 |
| 221 | 335.22 | 71.23 |
| 222 | 336.74 | 70.98 |
| 223 | 338.26 | 70.70 |
| 224 | 339.77 | 70.43 |
| 225 | 341.29 | 70.18 |
| 226 | 342.81 | 69.94 |
| 227 | 344.32 | 69.70 |
| 228 | 345.84 | 69.42 |
| 229 | 347.36 | 69.16 |
| 230 | 348.88 | 68.91 |
| 231 | 350.39 | 68.67 |
| 232 | 351.91 | 68.42 |
| 233 | 353.43 | 68.13 |
| 234 | 354.94 | 67.86 |
| 235 | 356.46 | 67.62 |
| 236 | 357.98 | 67.44 |
| 237 | 359.49 | 67.24 |
| 238 | 361.01 | 67.02 |
| 239 | 362.53 | 66.73 |
| 240 | 364.04 | 66.41 |
| 241 | 365.56 | 66.20 |
| 242 | 367.08 | 65.98 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 243 | 368.59 | 65.76 |
| 244 | 370.11 | 65.57 |
| 245 | 371.63 | 65.40 |
| 246 | 373.14 | 65.21 |
| 247 | 374.66 | 65.03 |
| 248 | 376.18 | 64.84 |
| 249 | 377.70 | 64.64 |
| 250 | 379.21 | 64.43 |
| 251 | 380.73 | 64.20 |
| 252 | 382.25 | 63.99 |
| 253 | 383.76 | 63.81 |
| 254 | 385.28 | 63.73 |
| 255 | 386.80 | 63.68 |
| 256 | 388.31 | 63.60 |
| 257 | 389.85 | 63.61 |
| 258 | 391.39 | 63.65 |
| 259 | 392.92 | 63.71 |
| 260 | 394.46 | 63.69 |
| 261 | 396.00 | 63.61 |
| 262 | 397.54 | 63.47 |
| 263 | 399.07 | 63.39 |
| 264 | 400.61 | 63.34 |
| 265 | 402.15 | 63.30 |
| 266 | 403.68 | 63.25 |
| 267 | 405.22 | 63.20 |
| 268 | 406.76 | 63.26 |
| 269 | 408.29 | 63.38 |
| 270 | 409.83 | 63.52 |
| 271 | 411.37 | 63.59 |
| 272 | 412.91 | 63.58 |
| 273 | 414.44 | 63.51 |
| 274 | 415.98 | 63.47 |
| 275 | 417.52 | 63.52 |
| 276 | 419.05 | 63.55 |
| 277 | 420.59 | 63.57 |
| 278 | 422.13 | 63.66 |
| 279 | 423.67 | 63.76 |
| 280 | 425.20 | 63.91 |
| 281 | 426.74 | 63.95 |
| 282 | 428.28 | 63.93 |
| 283 | 429.81 | 63.87 |
| 284 | 431.35 | 63.89 |
| 285 | 432.89 | 64.04 |
| 286 | 434.42 | 64.05 |
| 287 | 435.96 | 64.05 |
| 288 | 437.50 | 64.04 |
| 289 | 439.04 | 64.08 |
| 290 | 440.57 | 64.18 |
| 291 | 442.11 | 64.25 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 292 | 443.65 | 64.33 |
| 293 | 445.18 | 64.47 |
| 294 | 446.72 | 64.54 |
| 295 | 448.26 | 64.57 |
| 296 | 449.79 | 64.64 |
| 297 | 451.33 | 64.74 |
| 298 | 452.87 | 64.92 |
| 299 | 454.41 | 65.22 |
| 300 | 455.94 | 65.61 |
| 301 | 457.48 | 66.01 |
| 302 | 459.02 | 66.32 |
| 303 | 460.55 | 66.53 |
| 304 | 462.09 | 66.55 |
| 305 | 463.63 | 66.49 |
| 306 | 465.17 | 66.51 |
| 307 | 466.70 | 66.69 |
| 308 | 468.24 | 67.01 |
| 309 | 469.78 | 67.20 |
| 310 | 471.31 | 67.31 |
| 311 | 472.85 | 67.17 |
| 312 | 474.39 | 66.99 |
| 313 | 475.92 | 66.79 |
| 314 | 477.46 | 66.67 |
| 315 | 479.00 | 66.58 |
| 316 | 480.54 | 66.61 |
| 317 | 482.07 | 66.61 |
| 318 | 483.61 | 66.62 |
| 319 | 485.15 | 66.67 |
| 320 | 486.68 | 66.69 |
| 321 | 488.29 | 66.58 |
| 322 | 489.89 | 66.43 |
| 323 | 491.49 | 66.07 |
| 324 | 493.10 | 65.86 |
| 325 | 494.70 | 65.77 |
| 326 | 496.30 | 65.65 |
| 327 | 497.91 | 65.54 |
| 328 | 499.51 | 65.43 |
| 329 | 501.12 | 65.49 |
| 330 | 502.72 | 65.47 |
| 331 | 504.32 | 65.19 |
| 332 | 505.93 | 65.09 |
| 333 | 507.53 | 64.98 |
| 334 | 509.13 | 64.53 |
| 335 | 510.74 | 64.26 |
| 336 | 512.34 | 64.10 |
| 337 | 513.94 | 64.05 |
| 338 | 515.55 | 63.91 |
| 339 | 517.15 | 63.67 |
| 340 | 518.75 | 63.74 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 341 | 520.36 | 63.84 |
| 342 | 521.96 | 63.96 |
| 343 | 523.56 | 63.99 |
| 344 | 525.17 | 63.92 |
| 345 | 526.77 | 63.65 |
| 346 | 528.37 | 63.31 |
| 347 | 529.98 | 62.91 |
| 348 | 531.58 | 62.38 |
| 349 | 533.18 | 61.84 |
| 350 | 534.79 | 61.32 |
| 351 | 536.39 | 60.93 |
| 352 | 537.99 | 60.47 |
| 353 | 539.60 | 59.95 |
| 354 | 541.20 | 59.56 |
| 355 | 542.81 | 59.29 |
| 356 | 544.41 | 59.22 |
| 357 | 546.01 | 59.23 |
| 358 | 547.62 | 59.24 |
| 359 | 549.22 | 59.25 |
| 360 | 550.82 | 59.41 |
| 361 | 552.43 | 59.65 |
| 362 | 554.03 | 59.87 |
| 363 | 555.63 | 59.94 |
| 364 | 557.24 | 59.88 |
| 365 | 558.84 | 59.54 |
| 366 | 560.44 | 59.24 |
| 367 | 562.05 | 59.01 |
| 368 | 563.65 | 58.95 |
| 369 | 565.25 | 59.00 |
| 370 | 566.86 | 59.26 |
| 371 | 568.46 | 59.54 |
| 372 | 570.06 | 59.66 |
| 373 | 571.67 | 59.07 |
| 374 | 573.27 | 58.51 |
| 375 | 574.87 | 57.99 |
| 376 | 576.48 | 57.58 |
| 377 | 578.08 | 57.17 |
| 378 | 579.68 | 56.74 |
| 379 | 581.29 | 56.35 |
| 380 | 582.89 | 55.94 |
| 381 | 584.50 | 55.52 |
| 382 | 586.10 | 55.11 |
| 383 | 587.70 | 54.70 |
| 384 | 589.31 | 54.29 |
| 385 | 590.91 | 54.00 |
| 386 | 592.51 | 53.71 |
| 387 | 594.12 | 53.20 |
| 388 | 595.72 | 53.07 |
| 389 | 597.32 | 53.18 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 390 | 598.93 | 53.24 |
| 391 | 600.53 | 53.15 |
| 392 | 602.13 | 52.92 |
| 393 | 603.74 | 52.86 |
| 394 | 605.34 | 52.73 |
| 395 | 606.94 | 52.48 |
| 396 | 608.55 | 52.48 |
| 397 | 610.15 | 52.57 |
| 398 | 611.75 | 52.79 |
| 399 | 613.36 | 53.02 |
| 400 | 614.96 | 53.23 |
| 401 | 616.56 | 53.34 |
| 402 | 618.17 | 53.68 |
| 403 | 619.77 | 54.17 |
| 404 | 621.37 | 54.43 |
| 405 | 622.98 | 54.66 |
| 406 | 624.58 | 54.86 |
| 407 | 626.19 | 55.00 |
| 408 | 627.79 | 55.14 |
| 409 | 629.39 | 55.27 |
| 410 | 631.00 | 55.23 |
| 411 | 632.60 | 55.11 |
| 412 | 634.20 | 54.85 |
| 413 | 635.81 | 54.67 |
| 414 | 637.41 | 54.52 |
| 415 | 639.01 | 54.33 |
| 416 | 640.62 | 54.01 |
| 417 | 642.22 | 53.58 |
| 418 | 643.82 | 52.95 |
| 419 | 645.43 | 52.33 |
| 420 | 647.03 | 51.74 |
| 421 | 648.63 | 51.57 |
| 422 | 650.24 | 51.58 |
| 423 | 651.84 | 51.87 |
| 424 | 653.44 | 52.22 |
| 425 | 655.05 | 52.59 |
| 426 | 656.65 | 52.96 |
| 427 | 658.25 | 53.31 |
| 428 | 659.86 | 53.63 |
| 429 | 661.46 | 53.75 |
| 430 | 663.06 | 53.77 |
| 431 | 664.67 | 53.68 |
| 432 | 666.27 | 53.77 |
| 433 | 667.88 | 53.86 |
| 434 | 669.48 | 53.97 |
| 435 | 671.08 | 53.76 |
| 436 | 672.69 | 53.31 |
| 437 | 674.29 | 52.40 |
| 438 | 675.89 | 51.63 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 439 | 677.50 | 50.99 |
| 440 | 679.10 | 50.67 |
| 441 | 680.70 | 50.36 |
| 442 | 682.31 | 50.07 |
| 443 | 683.91 | 49.90 |
| 444 | 685.51 | 49.80 |
| 445 | 687.12 | 49.75 |
| 446 | 688.72 | 49.70 |
| 447 | 690.32 | 49.63 |
| 448 | 691.93 | 49.53 |
| 449 | 693.53 | 49.65 |
| 450 | 695.13 | 49.80 |
| 451 | 696.74 | 49.89 |
| 452 | 698.34 | 50.03 |
| 453 | 699.94 | 50.19 |
| 454 | 701.55 | 50.37 |
| 455 | 703.15 | 50.68 |
| 456 | 704.75 | 51.06 |
| 457 | 706.36 | 51.40 |
| 458 | 707.96 | 51.90 |
| 459 | 709.57 | 52.61 |
| 460 | 711.17 | 52.69 |
| 461 | 712.77 | 52.48 |
| 462 | 714.38 | 51.81 |
| 463 | 715.98 | 51.09 |
| 464 | 717.58 | 50.47 |
| 465 | 719.19 | 50.25 |
| 466 | 720.79 | 50.29 |
| 467 | 722.39 | 50.40 |
| 468 | 724.00 | 50.01 |
| 469 | 725.60 | 49.73 |
| 470 | 727.20 | 49.55 |
| 471 | 728.81 | 49.52 |
| 472 | 730.41 | 49.50 |
| 473 | 732.01 | 49.48 |
| 474 | 733.62 | 49.49 |
| 475 | 735.22 | 49.48 |
| 476 | 736.82 | 49.41 |
| 477 | 738.43 | 49.32 |
| 478 | 740.03 | 49.24 |
| 479 | 741.63 | 49.22 |
| 480 | 743.24 | 49.21 |
| 481 | 744.84 | 49.20 |
| 482 | 746.44 | 49.18 |
| 483 | 748.05 | 49.19 |
| 484 | 749.65 | 49.21 |
| 485 | 751.26 | 49.16 |
| 486 | 752.86 | 49.12 |
| 487 | 754.46 | 49.09 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 488 | 756.07 | 49.25 |
| 489 | 757.67 | 49.41 |
| 490 | 759.27 | 49.46 |
| 491 | 760.88 | 49.24 |
| 492 | 762.48 | 48.99 |
| 493 | 764.08 | 49.09 |
| 494 | 765.69 | 49.14 |
| 495 | 767.29 | 49.15 |
| 496 | 768.89 | 49.15 |
| 497 | 770.50 | 49.17 |
| 498 | 772.10 | 49.20 |
| 499 | 773.70 | 49.35 |
| 500 | 775.31 | 49.53 |
| 501 | 776.91 | 49.74 |
| 502 | 778.51 | 49.53 |
| 503 | 780.12 | 49.27 |
| 504 | 781.72 | 49.19 |
| 505 | 783.32 | 49.12 |
| 506 | 784.93 | 49.06 |
| 507 | 786.53 | 48.99 |
| 508 | 788.13 | 48.91 |
| 509 | 789.74 | 48.83 |
| 510 | 791.34 | 48.80 |
| 511 | 792.95 | 48.83 |
| 512 | 794.55 | 48.90 |
| 513 | 796.15 | 49.13 |
| 514 | 797.76 | 49.29 |
| 515 | 799.36 | 49.26 |
| 516 | 800.96 | 49.23 |
| 517 | 802.57 | 49.21 |
| 518 | 804.17 | 49.26 |
| 519 | 805.77 | 49.09 |
| 520 | 807.38 | 48.83 |
| 521 | 808.98 | 48.70 |
| 522 | 810.58 | 48.67 |
| 523 | 812.19 | 48.74 |
| 524 | 813.79 | 48.78 |
| 525 | 815.39 | 48.85 |
| 526 | 817.00 | 48.95 |
| 527 | 818.60 | 49.02 |
| 528 | 820.20 | 49.06 |
| 529 | 821.81 | 49.04 |
| 530 | 823.41 | 49.02 |
| 531 | 825.01 | 49.00 |
| 532 | 826.62 | 49.00 |
| 533 | 828.22 | 49.06 |
| 534 | 829.82 | 49.15 |
| 535 | 831.43 | 49.28 |
| 536 | 833.03 | 49.40 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 537 | 834.64 | 49.53 |
| 538 | 836.24 | 49.61 |
| 539 | 837.84 | 49.72 |
| 540 | 839.45 | 49.89 |
| 541 | 841.05 | 50.09 |
| 542 | 842.65 | 50.29 |
| 543 | 844.26 | 50.49 |
| 544 | 845.86 | 50.62 |
| 545 | 847.46 | 50.72 |
| 546 | 849.07 | 50.76 |
| 547 | 850.67 | 50.81 |
| 548 | 852.27 | 50.85 |
| 549 | 853.88 | 50.57 |
| 550 | 855.48 | 50.39 |
| 551 | 857.08 | 50.33 |
| 552 | 858.69 | 50.38 |
| 553 | 860.29 | 50.41 |
| 554 | 861.89 | 50.41 |
| 555 | 863.50 | 50.40 |
| 556 | 865.10 | 50.38 |
| 557 | 866.70 | 50.34 |
| 558 | 868.31 | 50.28 |
| 559 | 869.91 | 50.20 |
| 560 | 871.51 | 50.14 |
| 561 | 873.12 | 50.07 |
| 562 | 874.72 | 49.99 |
| 563 | 876.33 | 49.93 |
| 564 | 877.93 | 49.86 |
| 565 | 879.53 | 49.80 |
| 566 | 881.14 | 49.69 |
| 567 | 882.74 | 49.59 |
| 568 | 884.34 | 49.51 |
| 569 | 885.95 | 49.42 |
| 570 | 887.55 | 49.33 |
| 571 | 889.15 | 49.27 |
| 572 | 890.76 | 49.20 |
| 573 | 892.36 | 49.14 |
| 574 | 893.96 | 49.04 |
| 575 | 895.57 | 48.97 |
| 576 | 897.17 | 48.91 |
| 577 | 898.74 | 48.87 |
| 578 | 900.30 | 48.83 |
| 579 | 901.87 | 48.76 |
| 580 | 903.43 | 48.71 |
| 581 | 905.00 | 48.70 |
| 582 | 906.56 | 48.70 |
| 583 | 908.13 | 48.68 |
| 584 | 909.70 | 48.59 |
| 585 | 911.26 | 48.52 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 586 | 912.83 | 48.53 |
| 587 | 914.39 | 48.48 |
| 588 | 915.96 | 48.40 |
| 589 | 917.52 | 48.33 |
| 590 | 919.09 | 48.44 |
| 591 | 920.66 | 48.73 |
| 592 | 922.22 | 48.83 |
| 593 | 923.79 | 48.75 |
| 594 | 925.35 | 48.66 |
| 595 | 926.92 | 48.76 |
| 596 | 928.48 | 48.95 |
| 597 | 930.05 | 49.06 |
| 598 | 931.61 | 49.01 |
| 599 | 933.18 | 49.03 |
| 600 | 934.75 | 48.96 |
| 601 | 936.31 | 48.77 |
| 602 | 937.88 | 48.66 |
| 603 | 939.44 | 48.74 |
| 604 | 941.01 | 48.74 |
| 605 | 942.57 | 48.81 |
| 606 | 944.14 | 48.77 |
| 607 | 945.71 | 48.67 |
| 608 | 947.27 | 48.54 |
| 609 | 949.71 | 48.46 |
| 610 | 952.15 | 48.30 |
| 611 | 954.59 | 48.08 |
| 612 | 957.04 | 48.02 |
| 613 | 959.48 | 48.01 |
| 614 | 961.92 | 48.01 |
| 615 | 964.36 | 47.97 |
| 616 | 966.80 | 47.91 |
| 617 | 969.24 | 47.85 |
| 618 | 971.68 | 47.80 |
| 619 | 974.12 | 47.82 |
| 620 | 976.56 | 47.94 |
| 621 | 979.00 | 48.12 |
| 622 | 981.45 | 48.29 |
| 623 | 983.89 | 48.48 |
| 624 | 986.33 | 48.65 |
| 625 | 988.76 | 48.71 |
| 626 | 991.20 | 48.66 |
| 627 | 993.63 | 48.55 |
| 628 | 996.06 | 48.59 |
| 629 | 998.50 | 48.66 |
| 630 | 1000.93 | 48.67 |
| 631 | 1003.37 | 48.63 |
| 632 | 1005.80 | 48.56 |
| 633 | 1008.23 | 48.46 |
| 634 | 1010.67 | 48.33 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 635 | 1013.10 | 48.23 |
| 636 | 1015.54 | 48.18 |
| 637 | 1017.97 | 48.19 |
| 638 | 1020.41 | 48.13 |
| 639 | 1022.84 | 48.07 |
| 640 | 1025.27 | 48.01 |
| 641 | 1027.71 | 48.00 |
| 642 | 1030.14 | 47.99 |
| 643 | 1032.58 | 47.88 |
| 644 | 1035.01 | 47.85 |
| 645 | 1037.44 | 47.80 |
| 646 | 1039.88 | 47.78 |
| 647 | 1042.31 | 47.69 |
| 648 | 1044.75 | 47.53 |
| 649 | 1047.18 | 47.46 |
| 650 | 1049.61 | 47.36 |
| 651 | 1052.05 | 47.22 |
| 652 | 1054.48 | 47.17 |
| 653 | 1056.92 | 47.18 |
| 654 | 1059.35 | 47.15 |
| 655 | 1061.78 | 47.09 |
| 656 | 1064.22 | 47.05 |
| 657 | 1066.03 | 47.04 |
| 658 | 1067.85 | 46.98 |
| 659 | 1069.67 | 46.89 |
| 660 | 1071.48 | 46.79 |
| 661 | 1073.30 | 46.72 |
| 662 | 1075.12 | 46.68 |
| 663 | 1076.93 | 46.66 |
| 664 | 1078.75 | 46.66 |
| 665 | 1080.56 | 46.74 |
| 666 | 1082.38 | 46.90 |
| 667 | 1084.20 | 47.01 |
| 668 | 1086.01 | 47.12 |
| 669 | 1087.83 | 47.30 |
| 670 | 1089.64 | 47.43 |
| 671 | 1091.46 | 47.47 |
| 672 | 1093.28 | 47.45 |
| 673 | 1095.38 | 47.38 |
| 674 | 1097.49 | 47.28 |
| 675 | 1099.60 | 47.16 |
| 676 | 1101.71 | 47.03 |
| 677 | 1103.82 | 46.85 |
| 678 | 1105.93 | 46.71 |
| 679 | 1108.04 | 46.61 |
| 680 | 1110.15 | 46.55 |
| 681 | 1112.25 | 46.53 |
| 682 | 1114.36 | 46.52 |
| 683 | 1116.47 | 46.55 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 684 | 1118.58 | 46.55 |
| 685 | 1120.69 | 46.55 |
| 686 | 1122.80 | 46.49 |
| 687 | 1124.91 | 46.49 |
| 688 | 1127.01 | 46.50 |
| 689 | 1129.12 | 46.48 |
| 690 | 1131.23 | 46.49 |
| 691 | 1133.34 | 46.47 |
| 692 | 1135.45 | 46.44 |
| 693 | 1137.56 | 46.42 |
| 694 | 1139.67 | 46.41 |
| 695 | 1141.78 | 46.42 |
| 696 | 1143.88 | 46.42 |
| 697 | 1145.99 | 46.45 |
| 698 | 1148.10 | 46.50 |
| 699 | 1150.21 | 46.54 |
| 700 | 1152.32 | 46.60 |
| 701 | 1154.43 | 46.66 |
| 702 | 1156.54 | 46.69 |
| 703 | 1158.65 | 46.68 |
| 704 | 1160.75 | 46.69 |
| 705 | 1162.60 | 46.64 |
| 706 | 1164.45 | 46.59 |
| 707 | 1166.29 | 46.60 |
| 708 | 1168.14 | 46.65 |
| 709 | 1169.98 | 46.67 |
| 710 | 1171.83 | 46.65 |
| 711 | 1173.67 | 46.65 |
| 712 | 1175.52 | 46.63 |
| 713 | 1177.36 | 46.64 |
| 714 | 1179.21 | 46.62 |
| 715 | 1181.06 | 46.64 |
| 716 | 1182.90 | 46.63 |
| 717 | 1184.75 | 46.66 |
| 718 | 1186.59 | 46.70 |
| 719 | 1188.44 | 46.76 |
| 720 | 1190.28 | 46.80 |
| 721 | 1191.59 | 46.82 |
| 722 | 1192.90 | 46.84 |
| 723 | 1194.21 | 46.79 |
| 724 | 1195.52 | 46.74 |
| 725 | 1196.83 | 46.69 |
| 726 | 1198.13 | 46.66 |
| 727 | 1199.44 | 46.62 |
| 728 | 1200.75 | 46.59 |
| 729 | 1202.06 | 46.61 |
| 730 | 1203.37 | 46.64 |
| 731 | 1204.68 | 46.65 |
| 732 | 1205.98 | 46.66 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 733 | 1207.29 | 46.66 |
| 734 | 1208.60 | 46.68 |
| 735 | 1209.91 | 46.75 |
| 736 | 1211.22 | 46.79 |
| 737 | 1212.53 | 46.79 |
| 738 | 1213.84 | 46.83 |
| 739 | 1215.14 | 46.90 |
| 740 | 1216.45 | 46.94 |
| 741 | 1217.76 | 46.94 |
| 742 | 1219.07 | 46.97 |
| 743 | 1220.38 | 47.01 |
| 744 | 1221.69 | 47.02 |
| 745 | 1222.99 | 46.99 |
| 746 | 1224.30 | 46.96 |
| 747 | 1225.61 | 46.94 |
| 748 | 1226.92 | 46.92 |
| 749 | 1228.23 | 46.92 |
| 750 | 1229.54 | 46.92 |
| 751 | 1230.85 | 46.91 |
| 752 | 1232.15 | 46.90 |
| 753 | 1234.52 | 46.89 |
| 754 | 1236.88 | 47.07 |
| 755 | 1239.25 | 47.58 |
| 756 | 1241.61 | 47.77 |
| 757 | 1243.24 | 47.31 |
| 758 | 1244.87 | 46.92 |
| 759 | 1246.50 | 46.62 |
| 760 | 1248.13 | 46.55 |
| 761 | 1249.77 | 46.49 |
| 762 | 1251.40 | 46.42 |
| 763 | 1253.03 | 46.37 |
| 764 | 1254.66 | 46.36 |
| 765 | 1256.29 | 46.37 |
| 766 | 1257.92 | 46.27 |
| 767 | 1259.55 | 46.28 |
| 768 | 1261.18 | 46.43 |
| 769 | 1262.82 | 46.53 |
| 770 | 1264.45 | 46.59 |
| 771 | 1266.08 | 46.62 |
| 772 | 1267.71 | 46.59 |
| 773 | 1269.41 | 46.54 |
| 774 | 1271.12 | 46.48 |
| 775 | 1272.82 | 46.46 |
| 776 | 1274.52 | 46.44 |
| 777 | 1276.22 | 46.42 |
| 778 | 1277.93 | 46.44 |
| 779 | 1279.63 | 46.44 |
| 780 | 1281.33 | 46.43 |
| 781 | 1283.04 | 46.36 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 782 | 1284.74 | 46.32 |
| 783 | 1286.44 | 46.28 |
| 784 | 1288.14 | 46.29 |
| 785 | 1289.85 | 46.31 |
| 786 | 1291.55 | 46.34 |
| 787 | 1293.25 | 46.32 |
| 788 | 1294.96 | 46.33 |
| 789 | 1296.66 | 46.35 |
| 790 | 1298.36 | 46.35 |
| 791 | 1300.06 | 46.35 |
| 792 | 1301.77 | 46.35 |
| 793 | 1303.47 | 46.39 |
| 794 | 1305.17 | 46.41 |
| 795 | 1306.88 | 46.43 |
| 796 | 1308.58 | 46.48 |
| 797 | 1310.28 | 46.48 |
| 798 | 1311.98 | 46.45 |
| 799 | 1313.69 | 46.40 |
| 800 | 1315.39 | 46.38 |
| 801 | 1317.09 | 46.40 |
| 802 | 1318.80 | 46.48 |
| 803 | 1320.50 | 46.46 |
| 804 | 1322.20 | 46.45 |
| 805 | 1324.33 | 46.48 |
| 806 | 1326.47 | 46.46 |
| 807 | 1328.60 | 46.46 |
| 808 | 1330.73 | 46.46 |
| 809 | 1332.87 | 46.45 |
| 810 | 1335.00 | 46.45 |
| 811 | 1337.13 | 46.42 |
| 812 | 1339.26 | 46.42 |
| 813 | 1341.40 | 46.37 |
| 814 | 1343.53 | 46.34 |
| 815 | 1345.66 | 46.30 |
| 816 | 1347.80 | 46.28 |
| 817 | 1349.93 | 46.38 |
| 818 | 1352.06 | 46.40 |
| 819 | 1354.19 | 46.40 |
| 820 | 1356.33 | 46.40 |
| 821 | 1358.46 | 46.41 |
| 822 | 1360.59 | 46.40 |
| 823 | 1362.73 | 46.39 |
| 824 | 1364.86 | 46.42 |
| 825 | 1366.99 | 46.38 |
| 826 | 1369.12 | 46.40 |
| 827 | 1371.26 | 46.38 |
| 828 | 1373.39 | 46.39 |
| 829 | 1375.52 | 46.41 |
| 830 | 1377.66 | 46.37 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 831 | 1379.79 | 46.34 |
| 832 | 1381.92 | 46.32 |
| 833 | 1384.05 | 46.33 |
| 834 | 1386.19 | 46.34 |
| 835 | 1388.32 | 46.35 |
| 836 | 1390.45 | 46.38 |
| 837 | 1392.26 | 46.40 |
| 838 | 1394.07 | 46.42 |
| 839 | 1395.88 | 46.44 |
| 840 | 1397.69 | 46.44 |
| 841 | 1399.50 | 46.46 |
| 842 | 1401.31 | 46.47 |
| 843 | 1403.12 | 46.48 |
| 844 | 1404.93 | 46.51 |
| 845 | 1406.74 | 46.50 |
| 846 | 1408.55 | 46.53 |
| 847 | 1410.36 | 46.55 |
| 848 | 1412.17 | 46.54 |
| 849 | 1413.98 | 46.54 |
| 850 | 1415.79 | 46.52 |
| 851 | 1417.60 | 46.49 |
| 852 | 1419.41 | 46.45 |
| 853 | 1421.76 | 46.48 |
| 854 | 1424.11 | 46.46 |
| 855 | 1426.46 | 46.46 |
| 856 | 1428.80 | 46.47 |
| 857 | 1431.15 | 46.43 |
| 858 | 1433.50 | 46.46 |
| 859 | 1435.85 | 46.48 |
| 860 | 1438.19 | 46.49 |
| 861 | 1440.54 | 46.51 |
| 862 | 1442.89 | 46.52 |
| 863 | 1445.24 | 46.54 |
| 864 | 1447.58 | 46.51 |
| 865 | 1449.93 | 46.45 |
| 866 | 1452.28 | 46.34 |
| 867 | 1454.63 | 46.09 |
| 868 | 1456.97 | 45.56 |
| 869 | 1458.97 | 45.68 |
| 870 | 1460.98 | 45.73 |
| 871 | 1462.98 | 45.73 |
| 872 | 1464.98 | 45.89 |
| 873 | 1466.98 | 46.01 |
| 874 | 1468.98 | 46.07 |
| 875 | 1470.99 | 46.10 |
| 876 | 1472.99 | 46.09 |
| 877 | 1474.99 | 46.07 |
| 878 | 1476.99 | 45.94 |
| 879 | 1478.99 | 45.85 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 880 | 1480.99 | 45.86 |
| 881 | 1483.00 | 45.84 |
| 882 | 1485.00 | 45.79 |
| 883 | 1487.00 | 45.78 |
| 884 | 1489.00 | 45.71 |
| 885 | 1491.00 | 45.59 |
| 886 | 1493.00 | 45.65 |
| 887 | 1495.01 | 45.61 |
| 888 | 1497.01 | 45.64 |
| 889 | 1499.01 | 45.72 |
| 890 | 1501.01 | 45.79 |
| 891 | 1503.01 | 45.73 |
| 892 | 1505.01 | 45.79 |
| 893 | 1507.02 | 45.92 |
| 894 | 1509.02 | 46.11 |
| 895 | 1511.02 | 46.29 |
| 896 | 1513.02 | 46.39 |
| 897 | 1515.02 | 46.51 |
| 898 | 1517.02 | 46.60 |
| 899 | 1519.03 | 46.67 |
| 900 | 1521.03 | 46.74 |
| 901 | 1523.02 | 46.89 |
| 902 | 1525.02 | 47.19 |
| 903 | 1527.01 | 47.48 |
| 904 | 1529.00 | 47.61 |
| 905 | 1531.00 | 47.60 |
| 906 | 1532.99 | 47.38 |
| 907 | 1534.99 | 47.31 |
| 908 | 1536.98 | 47.35 |
| 909 | 1538.83 | 47.35 |
| 910 | 1540.68 | 47.35 |
| 911 | 1542.53 | 47.37 |
| 912 | 1544.38 | 47.43 |
| 913 | 1546.22 | 47.48 |
| 914 | 1548.07 | 47.51 |
| 915 | 1549.92 | 47.52 |
| 916 | 1551.77 | 47.54 |

Comment:

## Weir Cross Section: X-0160W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 47.54 |
| 1 | 1.45 | 47.49 |
| 2 | 2.90 | 47.42 |
| 3 | 4.36 | 47.40 |
| 4 | 5.81 | 47.39 |
| 5 | 7.26 | 47.42 |
| 6 | 8.71 | 47.43 |
| 7 | 10.17 | 47.41 |
| 8 | 11.62 | 47.37 |
| 9 | 13.07 | 47.33 |
| 10 | 14.52 | 47.27 |
| 11 | 15.97 | 47.22 |
| 12 | 17.43 | 47.18 |
| 13 | 18.88 | 47.14 |
| 14 | 20.33 | 47.09 |
| 15 | 21.78 | 47.13 |
| 16 | 23.23 | 47.20 |
| 17 | 24.69 | 47.19 |
| 18 | 26.14 | 47.18 |
| 19 | 27.59 | 47.14 |
| 20 | 29.04 | 47.12 |
| 21 | 30.50 | 47.12 |
| 22 | 31.95 | 47.07 |
| 23 | 33.40 | 47.02 |
| 24 | 34.85 | 47.01 |
| 25 | 36.30 | 46.98 |
| 26 | 37.76 | 46.94 |
| 27 | 39.21 | 46.92 |
| 28 | 40.66 | 46.89 |
| 29 | 42.11 | 46.94 |
| 30 | 43.57 | 46.98 |
| 31 | 45.02 | 46.95 |
| 32 | 46.47 | 46.95 |
| 33 | 47.92 | 46.97 |
| 34 | 49.37 | 46.97 |
| 35 | 50.83 | 46.96 |
| 36 | 52.28 | 46.95 |
| 37 | 53.73 | 46.93 |
| 38 | 55.18 | 46.92 |
| 39 | 56.63 | 46.91 |
| 40 | 58.09 | 46.91 |
| 41 | 59.54 | 46.92 |
| 42 | 60.99 | 46.93 |
| 43 | 62.44 | 46.98 |
| 44 | 63.90 | 47.00 |
| 45 | 65.35 | 47.00 |
| 46 | 66.80 | 47.00 |
| 47 | 68.25 | 47.00 |
| 48 | 69.70 | 47.06 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 49 | 71.16 | 47.11 |
| 50 | 72.61 | 47.13 |
| 51 | 74.06 | 47.15 |
| 52 | 75.51 | 47.16 |
| 53 | 76.97 | 47.20 |
| 54 | 78.42 | 47.24 |
| 55 | 79.87 | 47.25 |
| 56 | 81.32 | 47.24 |
| 57 | 82.77 | 47.21 |
| 58 | 84.23 | 47.24 |
| 59 | 85.68 | 47.30 |
| 60 | 87.13 | 47.29 |
| 61 | 88.58 | 47.28 |
| 62 | 90.03 | 47.29 |
| 63 | 91.49 | 47.30 |
| 64 | 92.94 | 47.30 |
| 65 | 94.75 | 47.25 |
| 66 | 96.57 | 47.21 |
| 67 | 98.38 | 47.20 |
| 68 | 100.20 | 47.16 |
| 69 | 102.01 | 47.08 |
| 70 | 103.83 | 47.01 |
| 71 | 105.64 | 47.01 |
| 72 | 107.46 | 47.02 |
| 73 | 109.27 | 47.02 |
| 74 | 111.09 | 47.00 |
| 75 | 112.90 | 47.00 |
| 76 | 114.72 | 47.01 |
| 77 | 116.53 | 47.05 |
| 78 | 118.35 | 47.14 |
| 79 | 120.16 | 47.17 |
| 80 | 121.98 | 47.16 |
| 81 | 123.79 | 47.13 |
| 82 | 125.61 | 47.08 |
| 83 | 127.42 | 47.23 |
| 84 | 129.24 | 47.28 |
| 85 | 131.05 | 47.26 |
| 86 | 132.86 | 47.24 |
| 87 | 134.68 | 47.24 |
| 88 | 136.49 | 47.24 |
| 89 | 138.31 | 47.25 |
| 90 | 140.12 | 47.23 |
| 91 | 141.94 | 47.25 |
| 92 | 143.75 | 47.27 |
| 93 | 145.57 | 47.27 |
| 94 | 147.38 | 47.27 |
| 95 | 149.20 | 47.27 |
| 96 | 151.01 | 47.26 |
| 97 | 152.63 | 47.25 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 98 | 154.25 | 47.20 |
| 99 | 155.88 | 47.14 |
| 100 | 157.50 | 47.18 |
| 101 | 159.12 | 47.13 |
| 102 | 160.74 | 47.01 |
| 103 | 162.36 | 47.13 |
| 104 | 163.98 | 47.22 |
| 105 | 165.60 | 47.24 |
| 106 | 167.22 | 47.20 |
| 107 | 168.84 | 47.15 |
| 108 | 170.46 | 47.10 |
| 109 | 172.08 | 47.10 |
| 110 | 173.71 | 47.11 |
| 111 | 175.33 | 47.12 |
| 112 | 176.95 | 47.14 |
| 113 | 178.57 | 47.16 |
| 114 | 180.19 | 47.10 |
| 115 | 181.81 | 46.99 |
| 116 | 183.43 | 46.86 |
| 117 | 185.05 | 46.86 |
| 118 | 186.67 | 46.86 |
| 119 | 188.29 | 46.85 |
| 120 | 189.91 | 46.80 |
| 121 | 191.54 | 46.78 |
| 122 | 193.16 | 46.77 |
| 123 | 194.78 | 46.78 |
| 124 | 196.40 | 46.78 |
| 125 | 198.02 | 46.76 |
| 126 | 199.64 | 46.75 |
| 127 | 201.26 | 46.74 |
| 128 | 202.88 | 46.75 |
| 129 | 204.50 | 46.75 |
| 130 | 206.12 | 46.77 |
| 131 | 207.74 | 46.78 |
| 132 | 209.37 | 46.80 |
| 133 | 210.99 | 46.82 |
| 134 | 212.61 | 46.83 |
| 135 | 214.23 | 46.84 |
| 136 | 215.85 | 46.86 |
| 137 | 217.47 | 46.88 |
| 138 | 219.09 | 46.88 |
| 139 | 220.71 | 46.86 |
| 140 | 222.33 | 46.85 |
| 141 | 223.95 | 46.86 |
| 142 | 225.58 | 46.87 |
| 143 | 227.20 | 46.86 |
| 144 | 228.82 | 46.85 |
| 145 | 230.44 | 46.83 |
| 146 | 232.06 | 46.84 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 147 | 233.68 | 46.85 |
| 148 | 235.30 | 46.85 |
| 149 | 236.92 | 46.86 |
| 150 | 238.54 | 46.88 |
| 151 | 240.16 | 46.87 |
| 152 | 241.78 | 46.89 |
| 153 | 243.41 | 46.91 |
| 154 | 245.03 | 46.91 |
| 155 | 246.65 | 46.92 |
| 156 | 248.27 | 46.95 |
| 157 | 249.89 | 46.97 |
| 158 | 251.51 | 46.98 |
| 159 | 253.13 | 46.99 |
| 160 | 254.75 | 47.00 |
| 161 | 256.37 | 47.02 |
| 162 | 257.99 | 47.05 |
| 163 | 259.61 | 47.07 |
| 164 | 261.24 | 47.08 |
| 165 | 262.86 | 47.10 |
| 166 | 264.48 | 47.09 |
| 167 | 266.10 | 47.07 |
| 168 | 267.72 | 47.06 |
| 169 | 269.34 | 47.06 |
| 170 | 270.96 | 47.07 |
| 171 | 272.58 | 47.01 |
| 172 | 274.20 | 47.02 |
| 173 | 275.82 | 47.07 |
| 174 | 277.44 | 47.04 |
| 175 | 279.07 | 47.00 |
| 176 | 280.69 | 46.95 |
| 177 | 282.31 | 46.92 |
| 178 | 283.93 | 46.91 |
| 179 | 285.55 | 46.93 |
| 180 | 287.17 | 46.91 |
| 181 | 288.79 | 46.89 |
| 182 | 290.41 | 46.90 |
| 183 | 292.03 | 46.90 |
| 184 | 293.65 | 46.91 |
| 185 | 295.27 | 46.92 |
| 186 | 296.90 | 46.94 |
| 187 | 298.52 | 46.95 |
| 188 | 300.14 | 46.95 |
| 189 | 301.76 | 46.94 |
| 190 | 303.38 | 46.95 |
| 191 | 305.00 | 46.94 |
| 192 | 306.62 | 46.92 |
| 193 | 308.24 | 46.91 |
| 194 | 309.86 | 46.94 |
| 195 | 311.48 | 46.94 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 196 | 313.10 | 46.90 |
| 197 | 314.73 | 46.92 |
| 198 | 316.35 | 46.93 |
| 199 | 317.97 | 46.90 |
| 200 | 319.59 | 46.89 |
| 201 | 321.21 | 46.88 |
| 202 | 322.83 | 46.90 |
| 203 | 324.45 | 46.90 |
| 204 | 326.07 | 46.90 |
| 205 | 327.69 | 46.92 |
| 206 | 329.31 | 46.94 |
| 207 | 330.93 | 46.95 |
| 208 | 332.56 | 46.94 |
| 209 | 334.18 | 46.94 |
| 210 | 335.80 | 46.93 |
| 211 | 337.42 | 46.96 |
| 212 | 339.04 | 46.98 |
| 213 | 340.66 | 47.00 |
| 214 | 342.28 | 47.04 |
| 215 | 343.90 | 47.06 |
| 216 | 345.52 | 47.02 |
| 217 | 347.14 | 46.99 |
| 218 | 348.76 | 46.96 |
| 219 | 350.39 | 46.93 |
| 220 | 352.01 | 46.91 |
| 221 | 353.63 | 46.88 |
| 222 | 355.25 | 46.83 |
| 223 | 356.87 | 46.80 |
| 224 | 358.49 | 46.78 |
| 225 | 360.11 | 46.76 |
| 226 | 361.73 | 46.75 |
| 227 | 363.35 | 46.75 |
| 228 | 364.97 | 46.75 |
| 229 | 366.59 | 46.76 |
| 230 | 368.22 | 46.79 |
| 231 | 369.84 | 46.82 |
| 232 | 371.46 | 46.86 |
| 233 | 373.08 | 46.91 |
| 234 | 374.70 | 46.90 |
| 235 | 376.32 | 46.88 |
| 236 | 377.94 | 46.90 |
| 237 | 379.56 | 46.91 |
| 238 | 381.18 | 46.92 |
| 239 | 382.80 | 46.89 |
| 240 | 384.42 | 46.92 |
| 241 | 386.05 | 46.96 |
| 242 | 387.67 | 46.94 |
| 243 | 389.29 | 46.95 |
| 244 | 390.91 | 46.97 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 245 | 392.53 | 46.97 |
| 246 | 394.15 | 46.97 |
| 247 | 395.77 | 46.97 |
| 248 | 397.39 | 47.00 |
| 249 | 399.01 | 47.01 |
| 250 | 400.63 | 47.00 |
| 251 | 402.25 | 47.02 |
| 252 | 403.88 | 47.04 |
| 253 | 405.50 | 47.05 |
| 254 | 407.12 | 47.06 |
| 255 | 408.74 | 47.07 |
| 256 | 410.36 | 47.06 |
| 257 | 411.98 | 47.07 |
| 258 | 413.60 | 47.08 |
| 259 | 415.22 | 47.07 |
| 260 | 416.84 | 47.07 |
| 261 | 418.46 | 47.07 |
| 262 | 420.09 | 47.09 |
| 263 | 421.71 | 47.08 |
| 264 | 423.33 | 47.05 |
| 265 | 424.95 | 47.01 |
| 266 | 426.57 | 46.98 |
| 267 | 428.19 | 46.96 |
| 268 | 429.81 | 46.98 |
| 269 | 431.43 | 47.02 |
| 270 | 433.05 | 47.06 |
| 271 | 434.67 | 47.05 |
| 272 | 436.29 | 47.03 |
| 273 | 437.92 | 47.03 |
| 274 | 439.54 | 47.05 |
| 275 | 441.16 | 47.06 |
| 276 | 442.78 | 47.03 |
| 277 | 444.40 | 47.04 |
| 278 | 446.02 | 47.05 |
| 279 | 447.64 | 47.03 |
| 280 | 449.26 | 47.01 |
| 281 | 450.88 | 46.98 |
| 282 | 452.50 | 46.98 |
| 283 | 454.12 | 46.99 |
| 284 | 455.75 | 47.00 |
| 285 | 457.37 | 47.00 |
| 286 | 458.99 | 47.00 |
| 287 | 460.61 | 47.00 |
| 288 | 462.23 | 47.00 |
| 289 | 463.85 | 47.01 |
| 290 | 465.47 | 47.02 |
| 291 | 467.09 | 47.02 |
| 292 | 468.71 | 47.02 |
| 293 | 470.33 | 47.03 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 294 | 471.95 | 47.04 |
| 295 | 473.58 | 47.05 |
| 296 | 475.20 | 47.04 |
| 297 | 476.82 | 47.04 |
| 298 | 478.44 | 47.02 |
| 299 | 480.06 | 47.01 |
| 300 | 481.68 | 47.01 |
| 301 | 483.30 | 47.02 |
| 302 | 484.92 | 47.06 |
| 303 | 486.54 | 47.05 |
| 304 | 488.16 | 46.98 |
| 305 | 489.78 | 47.00 |
| 306 | 491.41 | 47.02 |
| 307 | 493.03 | 47.01 |
| 308 | 494.65 | 46.99 |
| 309 | 496.27 | 46.99 |
| 310 | 497.89 | 46.99 |
| 311 | 499.51 | 47.00 |
| 312 | 501.13 | 47.01 |
| 313 | 502.75 | 46.98 |
| 314 | 504.37 | 47.00 |
| 315 | 505.99 | 47.02 |
| 316 | 507.61 | 47.03 |
| 317 | 509.24 | 47.04 |
| 318 | 510.86 | 47.05 |
| 319 | 512.48 | 47.03 |
| 320 | 514.10 | 47.04 |
| 321 | 515.72 | 47.07 |
| 322 | 517.34 | 47.11 |
| 323 | 518.96 | 47.14 |
| 324 | 520.58 | 47.16 |
| 325 | 522.20 | 47.19 |
| 326 | 523.82 | 47.21 |
| 327 | 525.44 | 47.23 |
| 328 | 527.07 | 47.27 |
| 329 | 528.69 | 47.30 |
| 330 | 530.31 | 47.34 |
| 331 | 531.93 | 47.40 |
| 332 | 533.55 | 47.46 |
| 333 | 535.17 | 47.48 |
| 334 | 536.79 | 47.49 |
| 335 | 538.41 | 47.51 |
| 336 | 540.03 | 47.54 |
| 337 | 541.65 | 47.55 |
| 338 | 543.27 | 47.56 |
| 339 | 544.90 | 47.60 |
| 340 | 546.52 | 47.63 |
| 341 | 548.14 | 47.65 |
| 342 | 549.76 | 47.67 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 343 | 551.38 | 47.68 |
| 344 | 553.00 | 47.66 |
| 345 | 554.62 | 47.68 |
| 346 | 556.24 | 47.71 |
| 347 | 557.86 | 47.70 |
| 348 | 559.48 | 47.74 |
| 349 | 561.10 | 47.79 |
| 350 | 562.73 | 47.84 |
| 351 | 564.35 | 47.86 |
| 352 | 565.97 | 47.87 |
| 353 | 567.78 | 47.88 |
| 354 | 569.58 | 47.91 |
| 355 | 571.39 | 47.93 |
| 356 | 573.20 | 47.92 |
| 357 | 575.01 | 47.88 |
| 358 | 576.82 | 47.88 |
| 359 | 578.63 | 47.89 |
| 360 | 580.43 | 47.84 |
| 361 | 582.24 | 47.72 |
| 362 | 584.05 | 47.62 |
| 363 | 585.86 | 47.58 |
| 364 | 587.67 | 47.57 |
| 365 | 589.48 | 47.55 |
| 366 | 591.28 | 47.56 |
| 367 | 593.09 | 47.64 |
| 368 | 594.90 | 47.75 |
| 369 | 596.57 | 47.76 |
| 370 | 598.24 | 47.74 |
| 371 | 599.92 | 47.72 |
| 372 | 601.59 | 47.71 |
| 373 | 603.26 | 47.71 |
| 374 | 604.93 | 47.67 |
| 375 | 606.60 | 47.64 |
| 376 | 608.27 | 47.64 |
| 377 | 609.95 | 47.67 |
| 378 | 611.62 | 47.66 |
| 379 | 613.29 | 47.61 |
| 380 | 614.96 | 47.60 |
| 381 | 616.63 | 47.58 |
| 382 | 618.30 | 47.57 |
| 383 | 619.98 | 47.53 |
| 384 | 621.65 | 47.52 |
| 385 | 623.32 | 47.55 |
| 386 | 624.99 | 47.55 |
| 387 | 626.66 | 47.55 |
| 388 | 628.33 | 47.55 |
| 389 | 630.00 | 47.54 |
| 390 | 631.68 | 47.52 |
| 391 | 633.35 | 47.49 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 392 | 635.02 | 47.47 |
| 393 | 636.69 | 47.47 |
| 394 | 638.36 | 47.50 |
| 395 | 640.03 | 47.52 |
| 396 | 641.71 | 47.51 |
| 397 | 643.38 | 47.48 |
| 398 | 645.05 | 47.45 |
| 399 | 646.72 | 47.41 |
| 400 | 648.39 | 47.38 |
| 401 | 650.19 | 47.42 |
| 402 | 651.99 | 47.42 |
| 403 | 653.79 | 47.40 |
| 404 | 655.59 | 47.40 |
| 405 | 657.38 | 47.44 |
| 406 | 659.18 | 47.46 |
| 407 | 660.98 | 47.46 |
| 408 | 662.78 | 47.45 |
| 409 | 664.58 | 47.45 |
| 410 | 666.38 | 47.45 |
| 411 | 668.17 | 47.41 |
| 412 | 669.97 | 47.45 |
| 413 | 671.77 | 47.49 |
| 414 | 673.57 | 47.50 |
| 415 | 675.37 | 47.49 |
| 416 | 677.17 | 47.49 |
| 417 | 678.97 | 47.49 |
| 418 | 680.76 | 47.49 |
| 419 | 682.56 | 47.53 |
| 420 | 684.36 | 47.55 |
| 421 | 686.16 | 47.54 |
| 422 | 687.96 | 47.51 |
| 423 | 689.76 | 47.50 |
| 424 | 691.55 | 47.50 |
| 425 | 693.35 | 47.52 |
| 426 | 695.15 | 47.54 |
| 427 | 696.95 | 47.51 |
| 428 | 698.75 | 47.48 |
| 429 | 700.55 | 47.50 |
| 430 | 702.35 | 47.54 |
| 431 | 704.14 | 47.55 |
| 432 | 705.94 | 47.53 |
| 433 | 707.74 | 47.55 |
| 434 | 709.54 | 47.58 |
| 435 | 711.34 | 47.60 |
| 436 | 713.14 | 47.58 |
| 437 | 714.93 | 47.60 |
| 438 | 716.73 | 47.63 |
| 439 | 718.53 | 47.67 |
| 440 | 720.33 | 47.65 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 441 | 722.13 | 47.63 |
| 442 | 723.93 | 47.62 |
| 443 | 725.73 | 47.64 |
| 444 | 727.52 | 47.61 |
| 445 | 729.32 | 47.59 |
| 446 | 731.12 | 47.56 |
| 447 | 732.92 | 47.56 |
| 448 | 734.72 | 47.56 |
| 449 | 736.52 | 47.57 |
| 450 | 738.31 | 47.59 |
| 451 | 740.11 | 47.65 |
| 452 | 741.91 | 47.69 |
| 453 | 743.71 | 47.72 |
| 454 | 745.51 | 47.75 |
| 455 | 747.31 | 47.75 |
| 456 | 749.11 | 47.75 |
| 457 | 750.90 | 47.77 |
| 458 | 752.70 | 47.74 |
| 459 | 754.50 | 47.75 |
| 460 | 756.30 | 47.79 |
| 461 | 758.10 | 47.89 |
| 462 | 759.90 | 47.98 |
| 463 | 761.69 | 48.09 |
| 464 | 763.49 | 48.24 |

Comment:

## Weir Cross Section: X-0170W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 47.85 |
| 1 | 2.05 | 47.77 |
| 2 | 4.10 | 47.58 |
| 3 | 6.15 | 47.60 |
| 4 | 8.20 | 47.62 |
| 5 | 10.25 | 47.60 |
| 6 | 12.30 | 47.59 |
| 7 | 14.35 | 47.61 |
| 8 | 16.40 | 47.60 |
| 9 | 18.45 | 47.56 |
| 10 | 20.50 | 47.52 |
| 11 | 22.55 | 47.50 |
| 12 | 24.60 | 47.50 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 13 | 26.65 | 47.46 |
| 14 | 28.70 | 47.43 |
| 15 | 30.75 | 47.43 |
| 16 | 32.80 | 47.41 |
| 17 | 34.85 | 47.40 |
| 18 | 36.90 | 47.41 |
| 19 | 38.95 | 47.37 |
| 20 | 41.00 | 47.36 |
| 21 | 43.05 | 47.36 |
| 22 | 45.10 | 47.33 |
| 23 | 47.15 | 47.31 |
| 24 | 49.20 | 47.32 |
| 25 | 51.25 | 47.29 |
| 26 | 53.30 | 47.27 |
| 27 | 55.35 | 47.28 |
| 28 | 57.40 | 47.29 |
| 29 | 59.45 | 47.29 |
| 30 | 61.50 | 47.25 |
| 31 | 63.55 | 47.24 |
| 32 | 65.60 | 47.22 |
| 33 | 67.65 | 47.21 |
| 34 | 69.70 | 47.21 |
| 35 | 71.75 | 47.19 |
| 36 | 73.80 | 47.13 |
| 37 | 75.85 | 47.13 |
| 38 | 77.90 | 47.15 |
| 39 | 79.95 | 47.11 |
| 40 | 82.00 | 47.03 |
| 41 | 84.05 | 47.03 |
| 42 | 86.10 | 47.04 |
| 43 | 88.15 | 47.08 |
| 44 | 90.20 | 47.08 |
| 45 | 92.25 | 47.04 |
| 46 | 94.30 | 47.05 |
| 47 | 96.35 | 47.05 |
| 48 | 98.40 | 47.03 |
| 49 | 100.45 | 47.00 |
| 50 | 102.50 | 46.99 |
| 51 | 104.55 | 46.95 |
| 52 | 106.60 | 46.91 |
| 53 | 108.65 | 46.88 |
| 54 | 110.70 | 46.90 |
| 55 | 112.75 | 46.91 |
| 56 | 114.80 | 46.90 |
| 57 | 116.85 | 46.90 |
| 58 | 118.90 | 46.84 |
| 59 | 120.95 | 46.84 |
| 60 | 123.00 | 46.82 |
| 61 | 125.05 | 46.79 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 62 | 127.10 | 46.76 |
| 63 | 129.15 | 46.75 |
| 64 | 131.20 | 46.70 |
| 65 | 132.51 | 46.70 |
| 66 | 133.81 | 46.72 |
| 67 | 135.11 | 46.73 |
| 68 | 136.42 | 46.73 |
| 69 | 137.72 | 46.74 |
| 70 | 139.02 | 46.74 |
| 71 | 140.33 | 46.70 |
| 72 | 141.63 | 46.66 |
| 73 | 142.93 | 46.68 |
| 74 | 144.24 | 46.72 |
| 75 | 145.54 | 46.73 |
| 76 | 146.85 | 46.75 |
| 77 | 148.15 | 46.75 |
| 78 | 149.45 | 46.74 |
| 79 | 150.76 | 46.73 |
| 80 | 152.06 | 46.73 |
| 81 | 153.36 | 46.74 |
| 82 | 154.67 | 46.73 |
| 83 | 155.97 | 46.71 |
| 84 | 157.28 | 46.70 |
| 85 | 158.58 | 46.69 |
| 86 | 159.88 | 46.70 |
| 87 | 161.19 | 46.71 |
| 88 | 162.49 | 46.70 |
| 89 | 163.79 | 46.69 |
| 90 | 165.10 | 46.70 |
| 91 | 166.40 | 46.72 |
| 92 | 167.70 | 46.72 |
| 93 | 169.01 | 46.70 |
| 94 | 170.31 | 46.69 |
| 95 | 171.62 | 46.68 |
| 96 | 172.92 | 46.70 |
| 97 | 174.22 | 46.72 |
| 98 | 175.53 | 46.74 |
| 99 | 176.83 | 46.76 |
| 100 | 178.13 | 46.75 |
| 101 | 179.44 | 46.74 |
| 102 | 180.74 | 46.73 |
| 103 | 182.04 | 46.73 |
| 104 | 183.35 | 46.74 |
| 105 | 184.65 | 46.75 |
| 106 | 185.96 | 46.75 |
| 107 | 187.26 | 46.75 |
| 108 | 188.56 | 46.75 |
| 109 | 189.87 | 46.74 |
| 110 | 191.17 | 46.74 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 111 | 192.47 | 46.73 |
| 112 | 193.78 | 46.74 |
| 113 | 195.08 | 46.75 |
| 114 | 196.38 | 46.77 |
| 115 | 197.69 | 46.79 |
| 116 | 198.99 | 46.81 |
| 117 | 200.30 | 46.83 |
| 118 | 201.60 | 46.85 |
| 119 | 202.90 | 46.88 |
| 120 | 204.21 | 46.92 |
| 121 | 205.51 | 46.93 |
| 122 | 206.81 | 46.95 |
| 123 | 208.12 | 46.92 |
| 124 | 209.42 | 46.89 |
| 125 | 210.72 | 46.87 |
| 126 | 212.03 | 46.86 |
| 127 | 213.33 | 46.92 |
| 128 | 214.64 | 46.97 |
| 129 | 215.94 | 46.98 |
| 130 | 217.24 | 47.00 |
| 131 | 218.55 | 47.02 |
| 132 | 219.85 | 47.04 |
| 133 | 221.15 | 47.07 |
| 134 | 222.46 | 47.07 |
| 135 | 223.76 | 47.04 |
| 136 | 225.07 | 47.04 |
| 137 | 226.37 | 47.07 |
| 138 | 227.67 | 47.04 |
| 139 | 228.98 | 46.99 |
| 140 | 230.28 | 46.99 |
| 141 | 231.58 | 47.01 |
| 142 | 232.89 | 47.03 |
| 143 | 234.19 | 47.04 |
| 144 | 235.49 | 47.05 |
| 145 | 236.80 | 47.06 |
| 146 | 238.10 | 47.11 |
| 147 | 239.41 | 47.15 |
| 148 | 240.71 | 47.13 |
| 149 | 242.01 | 47.12 |
| 150 | 243.32 | 47.14 |
| 151 | 244.62 | 47.15 |
| 152 | 245.92 | 47.15 |
| 153 | 247.23 | 47.15 |
| 154 | 248.53 | 47.16 |
| 155 | 249.83 | 47.17 |
| 156 | 251.14 | 47.17 |
| 157 | 252.44 | 47.19 |
| 158 | 253.75 | 47.23 |
| 159 | 255.05 | 47.24 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 160 | 256.35 | 47.23 |
| 161 | 257.66 | 47.23 |
| 162 | 258.96 | 47.24 |
| 163 | 260.26 | 47.25 |
| 164 | 261.57 | 47.27 |
| 165 | 262.87 | 47.27 |
| 166 | 264.17 | 47.28 |
| 167 | 265.48 | 47.29 |
| 168 | 266.78 | 47.30 |
| 169 | 268.09 | 47.30 |
| 170 | 269.39 | 47.30 |
| 171 | 270.69 | 47.30 |
| 172 | 272.00 | 47.31 |
| 173 | 273.30 | 47.34 |
| 174 | 274.60 | 47.37 |
| 175 | 275.91 | 47.36 |
| 176 | 277.21 | 47.35 |
| 177 | 278.51 | 47.34 |
| 178 | 279.82 | 47.34 |
| 179 | 281.12 | 47.36 |
| 180 | 282.43 | 47.38 |
| 181 | 283.73 | 47.40 |
| 182 | 285.03 | 47.42 |
| 183 | 286.34 | 47.42 |
| 184 | 287.64 | 47.42 |
| 185 | 288.94 | 47.43 |
| 186 | 290.25 | 47.43 |
| 187 | 291.55 | 47.43 |
| 188 | 292.86 | 47.43 |
| 189 | 294.16 | 47.44 |
| 190 | 295.46 | 47.44 |
| 191 | 296.77 | 47.44 |
| 192 | 298.07 | 47.46 |
| 193 | 300.56 | 47.53 |
| 194 | 303.04 | 47.56 |
| 195 | 305.53 | 47.63 |
| 196 | 308.02 | 47.65 |
| 197 | 310.51 | 47.53 |
| 198 | 312.99 | 47.06 |
| 199 | 315.48 | 46.26 |
| 200 | 317.97 | 46.10 |
| 201 | 320.45 | 46.22 |
| 202 | 322.94 | 46.26 |
| 203 | 325.43 | 46.08 |
| 204 | 327.92 | 46.03 |
| 205 | 330.40 | 46.14 |
| 206 | 332.89 | 46.36 |
| 207 | 335.38 | 47.05 |
| 208 | 337.86 | 47.67 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 209 | 339.88 | 47.48 |
| 210 | 341.90 | 47.02 |
| 211 | 343.92 | 46.70 |
| 212 | 345.94 | 46.88 |
| 213 | 347.95 | 47.30 |
| 214 | 349.97 | 47.66 |
| 215 | 351.99 | 47.69 |
| 216 | 354.01 | 47.48 |
| 217 | 355.32 | 47.38 |
| 218 | 356.63 | 47.28 |
| 219 | 357.95 | 47.27 |
| 220 | 359.26 | 47.28 |
| 221 | 360.58 | 47.31 |
| 222 | 361.89 | 47.30 |
| 223 | 363.21 | 47.23 |
| 224 | 364.52 | 47.12 |
| 225 | 365.83 | 46.89 |
| 226 | 367.15 | 46.73 |
| 227 | 368.46 | 46.72 |
| 228 | 369.78 | 46.73 |
| 229 | 371.09 | 46.75 |
| 230 | 372.41 | 46.78 |
| 231 | 373.72 | 46.80 |
| 232 | 375.03 | 46.82 |
| 233 | 376.35 | 46.84 |
| 234 | 377.66 | 46.83 |
| 235 | 378.98 | 46.80 |
| 236 | 380.29 | 46.78 |
| 237 | 381.61 | 46.76 |
| 238 | 382.92 | 46.76 |
| 239 | 384.23 | 46.75 |
| 240 | 385.55 | 46.80 |
| 241 | 386.86 | 46.83 |
| 242 | 388.18 | 46.86 |
| 243 | 389.49 | 46.92 |
| 244 | 390.81 | 46.97 |
| 245 | 392.12 | 47.04 |
| 246 | 393.43 | 47.11 |
| 247 | 394.75 | 47.17 |
| 248 | 396.06 | 47.12 |
| 249 | 398.51 | 46.98 |
| 250 | 400.95 | 46.57 |
| 251 | 403.39 | 46.14 |
| 252 | 405.84 | 45.94 |
| 253 | 408.28 | 45.91 |
| 254 | 410.72 | 45.88 |
| 255 | 413.17 | 45.84 |
| 256 | 415.61 | 45.92 |
| 257 | 418.05 | 46.02 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 258 | 420.50 | 46.07 |
| 259 | 422.94 | 46.14 |
| 260 | 425.38 | 46.25 |
| 261 | 427.83 | 46.37 |
| 262 | 430.27 | 46.68 |
| 263 | 432.71 | 46.91 |
| 264 | 435.16 | 46.65 |
| 265 | 437.22 | 46.44 |
| 266 | 439.29 | 46.39 |
| 267 | 441.35 | 46.51 |
| 268 | 443.42 | 46.71 |
| 269 | 445.48 | 46.90 |
| 270 | 447.55 | 46.99 |
| 271 | 449.61 | 46.72 |
| 272 | 451.68 | 46.35 |
| 273 | 453.74 | 46.04 |
| 274 | 455.81 | 45.87 |
| 275 | 457.87 | 45.91 |
| 276 | 459.94 | 45.98 |
| 277 | 462.01 | 46.08 |
| 278 | 464.07 | 46.20 |
| 279 | 466.14 | 46.32 |
| 280 | 468.20 | 46.38 |
| 281 | 470.31 | 46.42 |
| 282 | 472.41 | 46.45 |
| 283 | 474.52 | 46.50 |
| 284 | 476.63 | 46.40 |
| 285 | 478.73 | 46.31 |
| 286 | 480.84 | 46.27 |
| 287 | 482.95 | 46.24 |
| 288 | 485.05 | 46.28 |
| 289 | 487.16 | 46.35 |
| 290 | 489.26 | 46.52 |
| 291 | 491.37 | 46.96 |
| 292 | 493.48 | 47.36 |
| 293 | 495.58 | 47.43 |
| 294 | 497.69 | 47.35 |
| 295 | 499.79 | 47.21 |
| 296 | 501.90 | 47.14 |
| 297 | 503.52 | 47.15 |
| 298 | 505.14 | 47.19 |
| 299 | 506.77 | 47.24 |
| 300 | 508.39 | 47.18 |
| 301 | 510.01 | 47.12 |
| 302 | 511.63 | 47.05 |
| 303 | 513.25 | 47.04 |
| 304 | 514.87 | 47.08 |
| 305 | 516.49 | 47.20 |
| 306 | 518.12 | 47.34 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 307 | 519.74 | 47.39 |
| 308 | 521.36 | 47.43 |
| 309 | 522.98 | 47.24 |
| 310 | 524.60 | 47.12 |
| 311 | 526.22 | 47.04 |
| 312 | 527.84 | 46.95 |
| 313 | 529.84 | 46.88 |
| 314 | 531.84 | 47.06 |
| 315 | 533.84 | 47.35 |
| 316 | 535.83 | 47.41 |
| 317 | 537.83 | 47.23 |
| 318 | 539.83 | 47.11 |
| 319 | 541.83 | 46.97 |
| 320 | 543.82 | 46.76 |
| 321 | 545.82 | 46.59 |
| 322 | 547.82 | 46.69 |
| 323 | 549.81 | 46.83 |
| 324 | 551.81 | 47.09 |
| 325 | 553.81 | 47.51 |
| 326 | 555.81 | 47.30 |
| 327 | 557.80 | 47.45 |
| 328 | 559.80 | 47.67 |
| 329 | 561.40 | 47.76 |
| 330 | 563.00 | 47.59 |
| 331 | 564.60 | 47.31 |
| 332 | 566.20 | 46.86 |
| 333 | 567.80 | 46.82 |
| 334 | 569.40 | 46.85 |
| 335 | 570.99 | 46.63 |
| 336 | 572.59 | 46.49 |
| 337 | 574.19 | 46.40 |
| 338 | 575.79 | 46.48 |
| 339 | 577.39 | 46.55 |
| 340 | 578.99 | 46.61 |
| 341 | 580.59 | 46.65 |
| 342 | 582.19 | 46.64 |
| 343 | 583.79 | 46.54 |
| 344 | 585.39 | 46.45 |
| 345 | 586.99 | 46.44 |
| 346 | 588.58 | 46.66 |
| 347 | 590.18 | 46.72 |
| 348 | 591.78 | 46.70 |
| 349 | 593.38 | 46.65 |
| 350 | 594.98 | 46.56 |
| 351 | 596.58 | 46.43 |
| 352 | 598.18 | 46.37 |
| 353 | 599.78 | 46.27 |
| 354 | 601.38 | 46.13 |
| 355 | 602.98 | 46.21 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 356 | 604.57 | 46.37 |
| 357 | 606.17 | 46.64 |
| 358 | 607.77 | 46.79 |
| 359 | 609.37 | 46.92 |
| 360 | 610.97 | 47.08 |
| 361 | 613.30 | 47.05 |
| 362 | 615.62 | 46.78 |
| 363 | 617.94 | 46.55 |
| 364 | 620.27 | 46.32 |
| 365 | 622.59 | 46.23 |
| 366 | 624.92 | 46.15 |
| 367 | 627.24 | 46.28 |
| 368 | 629.56 | 46.57 |
| 369 | 631.89 | 46.70 |
| 370 | 634.21 | 46.98 |
| 371 | 636.53 | 47.15 |
| 372 | 638.86 | 47.36 |
| 373 | 641.18 | 47.63 |
| 374 | 643.51 | 47.79 |
| 375 | 645.83 | 48.01 |
| 376 | 648.15 | 48.22 |
| 377 | 650.35 | 47.95 |
| 378 | 652.54 | 47.68 |
| 379 | 654.73 | 47.41 |
| 380 | 656.92 | 47.14 |
| 381 | 659.11 | 46.87 |
| 382 | 661.30 | 46.71 |
| 383 | 663.49 | 46.65 |
| 384 | 665.68 | 46.63 |
| 385 | 667.87 | 46.61 |
| 386 | 670.06 | 46.59 |
| 387 | 672.25 | 46.58 |
| 388 | 674.44 | 46.60 |
| 389 | 676.63 | 46.62 |
| 390 | 678.82 | 46.55 |
| 391 | 681.01 | 46.49 |
| 392 | 683.21 | 46.48 |
| 393 | 685.40 | 46.50 |
| 394 | 687.59 | 46.48 |
| 395 | 689.78 | 46.31 |
| 396 | 691.97 | 46.34 |
| 397 | 694.16 | 46.36 |
| 398 | 696.35 | 46.45 |
| 399 | 698.54 | 46.51 |
| 400 | 700.73 | 46.53 |
| 401 | 702.92 | 46.46 |
| 402 | 705.11 | 46.14 |
| 403 | 707.30 | 45.79 |
| 404 | 709.49 | 45.92 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 405 | 711.68 | 46.25 |
| 406 | 713.87 | 46.46 |
| 407 | 716.07 | 46.15 |
| 408 | 718.26 | 45.54 |
| 409 | 719.54 | 45.24 |
| 410 | 720.82 | 45.22 |
| 411 | 722.11 | 45.27 |
| 412 | 723.39 | 45.29 |
| 413 | 724.67 | 45.31 |
| 414 | 725.96 | 45.43 |
| 415 | 727.24 | 45.57 |
| 416 | 728.52 | 45.78 |
| 417 | 729.80 | 46.00 |
| 418 | 731.09 | 46.29 |
| 419 | 732.37 | 46.56 |
| 420 | 733.65 | 46.68 |
| 421 | 734.94 | 46.80 |
| 422 | 736.22 | 46.90 |
| 423 | 737.50 | 47.00 |
| 424 | 738.79 | 47.05 |
| 425 | 740.07 | 47.07 |
| 426 | 741.35 | 46.94 |
| 427 | 742.64 | 46.80 |
| 428 | 743.92 | 46.62 |
| 429 | 745.20 | 46.43 |
| 430 | 746.49 | 46.23 |
| 431 | 747.77 | 46.04 |
| 432 | 749.05 | 45.88 |
| 433 | 750.34 | 45.87 |
| 434 | 751.62 | 46.06 |
| 435 | 752.90 | 46.20 |
| 436 | 754.18 | 46.27 |
| 437 | 755.47 | 46.35 |
| 438 | 756.75 | 46.42 |
| 439 | 758.03 | 46.53 |
| 440 | 759.32 | 46.68 |
| 441 | 760.76 | 46.70 |
| 442 | 762.20 | 46.64 |
| 443 | 763.65 | 46.58 |
| 444 | 765.09 | 46.52 |
| 445 | 766.53 | 46.53 |
| 446 | 767.97 | 46.55 |
| 447 | 769.42 | 46.57 |
| 448 | 770.86 | 46.64 |
| 449 | 772.30 | 46.72 |
| 450 | 773.75 | 46.82 |
| 451 | 775.19 | 46.89 |
| 452 | 776.63 | 46.85 |
| 453 | 778.07 | 46.80 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 454 | 779.52 | 46.75 |
| 455 | 780.96 | 46.78 |
| 456 | 782.40 | 46.83 |
| 457 | 783.85 | 46.90 |
| 458 | 785.29 | 47.00 |
| 459 | 786.73 | 47.17 |
| 460 | 788.17 | 47.34 |
| 461 | 789.62 | 47.51 |
| 462 | 791.06 | 47.58 |
| 463 | 792.50 | 47.62 |
| 464 | 793.94 | 47.64 |
| 465 | 795.39 | 47.71 |
| 466 | 796.83 | 47.86 |
| 467 | 798.27 | 47.84 |
| 468 | 799.72 | 47.70 |
| 469 | 801.16 | 47.55 |
| 470 | 802.60 | 47.40 |
| 471 | 804.04 | 47.32 |
| 472 | 805.49 | 47.27 |
| 473 | 806.96 | 47.24 |
| 474 | 808.43 | 47.22 |
| 475 | 809.89 | 47.19 |
| 476 | 811.36 | 47.08 |
| 477 | 812.83 | 46.97 |
| 478 | 814.30 | 46.89 |
| 479 | 815.77 | 46.82 |
| 480 | 817.24 | 46.77 |
| 481 | 818.71 | 46.72 |
| 482 | 820.18 | 46.68 |
| 483 | 821.65 | 46.67 |
| 484 | 823.12 | 46.67 |
| 485 | 824.59 | 46.66 |
| 486 | 826.05 | 46.62 |
| 487 | 827.52 | 46.57 |
| 488 | 828.99 | 46.51 |
| 489 | 830.46 | 46.45 |
| 490 | 831.93 | 46.38 |
| 491 | 833.40 | 46.31 |
| 492 | 834.87 | 46.24 |
| 493 | 836.34 | 46.18 |
| 494 | 837.81 | 46.12 |
| 495 | 839.28 | 46.08 |
| 496 | 840.74 | 46.06 |
| 497 | 842.21 | 46.07 |
| 498 | 843.68 | 46.07 |
| 499 | 845.15 | 46.09 |
| 500 | 846.62 | 46.33 |
| 501 | 848.09 | 46.52 |
| 502 | 849.56 | 46.62 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 503 | 851.03 | 46.76 |
| 504 | 852.50 | 46.91 |
| 505 | 853.78 | 46.85 |
| 506 | 855.05 | 46.75 |
| 507 | 856.33 | 46.60 |
| 508 | 857.61 | 46.46 |
| 509 | 858.89 | 46.37 |
| 510 | 860.17 | 46.30 |
| 511 | 861.45 | 46.36 |
| 512 | 862.73 | 46.43 |
| 513 | 864.00 | 46.56 |
| 514 | 865.28 | 46.67 |
| 515 | 866.56 | 46.52 |
| 516 | 867.84 | 46.37 |
| 517 | 869.12 | 46.33 |
| 518 | 870.40 | 46.31 |
| 519 | 871.67 | 46.37 |
| 520 | 872.95 | 46.40 |
| 521 | 874.23 | 46.34 |
| 522 | 875.51 | 46.31 |
| 523 | 876.79 | 46.33 |
| 524 | 878.07 | 46.35 |
| 525 | 879.35 | 46.37 |
| 526 | 880.62 | 46.35 |
| 527 | 881.90 | 46.25 |
| 528 | 883.18 | 46.18 |
| 529 | 884.46 | 46.16 |
| 530 | 885.74 | 46.13 |
| 531 | 887.02 | 46.11 |
| 532 | 888.30 | 46.09 |
| 533 | 889.57 | 46.05 |
| 534 | 890.85 | 46.01 |
| 535 | 892.13 | 45.97 |
| 536 | 893.41 | 45.98 |
| 537 | 894.69 | 46.02 |
| 538 | 895.97 | 46.04 |
| 539 | 897.25 | 46.03 |
| 540 | 898.52 | 46.04 |
| 541 | 899.80 | 46.06 |
| 542 | 901.08 | 46.10 |
| 543 | 902.36 | 46.14 |
| 544 | 903.64 | 46.15 |
| 545 | 904.92 | 46.15 |
| 546 | 906.19 | 46.15 |
| 547 | 907.47 | 46.15 |
| 548 | 908.75 | 46.11 |
| 549 | 910.03 | 46.06 |
| 550 | 911.31 | 46.05 |
| 551 | 912.59 | 46.05 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 552 | 913.87 | 45.99 |
| 553 | 915.14 | 45.92 |
| 554 | 916.42 | 45.96 |
| 555 | 917.70 | 46.01 |
| 556 | 918.98 | 45.96 |
| 557 | 920.26 | 45.92 |
| 558 | 921.54 | 45.94 |
| 559 | 922.82 | 45.95 |
| 560 | 924.09 | 45.97 |
| 561 | 925.37 | 45.99 |
| 562 | 926.65 | 46.01 |
| 563 | 927.93 | 46.03 |
| 564 | 929.21 | 45.98 |
| 565 | 930.49 | 45.94 |
| 566 | 931.77 | 45.96 |
| 567 | 933.04 | 45.99 |
| 568 | 934.32 | 46.04 |
| 569 | 935.84 | 45.99 |
| 570 | 937.35 | 45.86 |
| 571 | 938.86 | 45.79 |
| 572 | 940.38 | 45.70 |
| 573 | 941.89 | 45.72 |
| 574 | 943.40 | 45.69 |
| 575 | 944.92 | 45.70 |
| 576 | 946.43 | 45.84 |
| 577 | 947.94 | 46.18 |
| 578 | 949.46 | 46.53 |
| 579 | 950.97 | 46.89 |
| 580 | 952.48 | 47.25 |
| 581 | 954.00 | 47.60 |
| 582 | 955.51 | 47.98 |
| 583 | 957.02 | 48.32 |
| 584 | 958.54 | 48.54 |
| 585 | 959.85 | 48.55 |
| 586 | 961.17 | 48.42 |
| 587 | 962.48 | 48.21 |
| 588 | 963.80 | 47.95 |
| 589 | 965.11 | 47.68 |
| 590 | 966.43 | 47.35 |
| 591 | 967.74 | 47.00 |
| 592 | 969.06 | 46.65 |
| 593 | 970.37 | 46.30 |
| 594 | 971.69 | 46.02 |
| 595 | 973.00 | 45.75 |
| 596 | 974.32 | 45.64 |
| 597 | 975.64 | 45.52 |
| 598 | 976.95 | 45.37 |
| 599 | 978.27 | 45.19 |
| 600 | 979.58 | 44.96 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 601 | 980.90 | 44.74 |
| 602 | 982.21 | 44.55 |
| 603 | 983.53 | 44.43 |
| 604 | 984.84 | 44.40 |
| 605 | 986.16 | 44.47 |
| 606 | 987.47 | 44.60 |
| 607 | 988.79 | 44.74 |
| 608 | 990.10 | 44.88 |
| 609 | 991.42 | 45.04 |
| 610 | 992.73 | 45.21 |
| 611 | 994.05 | 45.47 |
| 612 | 995.36 | 45.75 |
| 613 | 996.68 | 46.23 |
| 614 | 997.99 | 46.72 |
| 615 | 999.31 | 47.33 |
| 616 | 1000.62 | 47.93 |
| 617 | 1002.70 | 47.50 |
| 618 | 1004.78 | 47.12 |
| 619 | 1006.85 | 46.87 |
| 620 | 1008.93 | 46.84 |
| 621 | 1011.01 | 46.90 |
| 622 | 1013.08 | 47.03 |
| 623 | 1015.16 | 47.26 |
| 624 | 1017.24 | 47.50 |
| 625 | 1019.31 | 47.65 |
| 626 | 1021.39 | 47.87 |
| 627 | 1023.46 | 47.96 |
| 628 | 1025.54 | 48.03 |
| 629 | 1027.62 | 47.91 |
| 630 | 1029.69 | 47.90 |
| 631 | 1031.77 | 47.94 |
| 632 | 1033.85 | 47.94 |
| 633 | 1035.97 | 47.97 |
| 634 | 1038.09 | 47.98 |
| 635 | 1040.21 | 48.02 |
| 636 | 1042.34 | 48.05 |

Comment:

## Weir Cross Section: X-0180W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 116.16 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1 | 2.34 | 116.12 |
| 2 | 4.68 | 116.06 |
| 3 | 7.03 | 115.98 |
| 4 | 9.37 | 115.89 |
| 5 | 11.71 | 115.83 |
| 6 | 14.05 | 115.78 |
| 7 | 16.39 | 115.75 |
| 8 | 18.74 | 115.74 |
| 9 | 21.08 | 115.69 |
| 10 | 23.42 | 115.62 |
| 11 | 25.76 | 115.77 |
| 12 | 28.10 | 116.17 |
| 13 | 30.44 | 116.64 |
| 14 | 32.79 | 117.46 |
| 15 | 35.13 | 118.13 |
| 16 | 37.47 | 118.16 |
| 17 | 39.81 | 117.95 |
| 18 | 42.15 | 117.73 |
| 19 | 44.50 | 117.46 |
| 20 | 46.84 | 117.19 |
| 21 | 49.18 | 117.00 |
| 22 | 51.52 | 116.78 |
| 23 | 53.86 | 116.50 |
| 24 | 56.21 | 116.27 |
| 25 | 58.55 | 116.03 |
| 26 | 60.89 | 115.94 |
| 27 | 63.23 | 115.73 |
| 28 | 65.57 | 115.54 |
| 29 | 67.92 | 115.39 |
| 30 | 70.26 | 115.33 |
| 31 | 72.60 | 115.35 |
| 32 | 74.94 | 115.15 |
| 33 | 77.28 | 114.70 |
| 34 | 79.62 | 114.54 |
| 35 | 81.97 | 114.69 |
| 36 | 84.31 | 114.82 |
| 37 | 86.65 | 114.74 |
| 38 | 88.99 | 114.51 |
| 39 | 91.33 | 114.29 |
| 40 | 93.68 | 113.95 |
| 41 | 96.02 | 113.47 |
| 42 | 98.36 | 113.41 |
| 43 | 100.70 | 113.39 |
| 44 | 103.04 | 113.28 |
| 45 | 105.39 | 113.19 |
| 46 | 107.73 | 113.30 |
| 47 | 110.07 | 113.33 |
| 48 | 112.41 | 113.36 |
| 49 | 114.75 | 113.12 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 50 | 117.09 | 112.84 |
| 51 | 119.44 | 112.62 |
| 52 | 121.78 | 112.49 |
| 53 | 124.12 | 112.48 |
| 54 | 126.46 | 112.52 |
| 55 | 128.80 | 112.53 |
| 56 | 131.15 | 112.64 |
| 57 | 133.49 | 112.78 |
| 58 | 135.83 | 112.72 |
| 59 | 138.17 | 112.73 |
| 60 | 140.51 | 112.58 |
| 61 | 142.86 | 112.89 |
| 62 | 145.20 | 112.92 |
| 63 | 147.54 | 112.85 |
| 64 | 149.88 | 112.61 |
| 65 | 151.40 | 112.47 |
| 66 | 152.91 | 112.32 |
| 67 | 154.42 | 112.19 |
| 68 | 155.94 | 112.11 |
| 69 | 157.45 | 112.07 |
| 70 | 158.97 | 112.00 |
| 71 | 160.48 | 112.01 |
| 72 | 162.00 | 112.09 |
| 73 | 163.51 | 112.21 |
| 74 | 165.03 | 112.27 |
| 75 | 166.54 | 112.35 |
| 76 | 168.06 | 112.35 |
| 77 | 169.57 | 112.35 |
| 78 | 171.08 | 112.33 |
| 79 | 172.60 | 112.32 |
| 80 | 174.11 | 112.36 |
| 81 | 175.63 | 112.41 |
| 82 | 177.14 | 112.47 |
| 83 | 178.66 | 112.48 |
| 84 | 180.17 | 112.51 |
| 85 | 181.69 | 112.48 |
| 86 | 183.20 | 112.48 |
| 87 | 184.71 | 112.51 |
| 88 | 186.23 | 112.53 |
| 89 | 187.74 | 112.54 |
| 90 | 189.26 | 112.55 |
| 91 | 190.77 | 112.52 |
| 92 | 192.29 | 112.50 |
| 93 | 193.80 | 112.58 |
| 94 | 195.32 | 112.56 |
| 95 | 196.83 | 112.54 |
| 96 | 198.34 | 112.51 |
| 97 | 200.39 | 112.47 |
| 98 | 202.44 | 112.46 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 99 | 204.49 | 112.60 |
| 100 | 206.54 | 112.72 |
| 101 | 208.59 | 112.84 |
| 102 | 210.64 | 112.95 |
| 103 | 212.69 | 113.05 |
| 104 | 214.73 | 113.14 |
| 105 | 216.78 | 112.96 |
| 106 | 218.83 | 112.50 |
| 107 | 220.88 | 112.19 |
| 108 | 222.93 | 112.11 |
| 109 | 224.98 | 112.01 |
| 110 | 227.03 | 112.06 |
| 111 | 229.08 | 112.39 |
| 112 | 231.13 | 112.71 |
| 113 | 233.17 | 112.96 |
| 114 | 235.22 | 113.14 |
| 115 | 237.27 | 113.29 |
| 116 | 239.32 | 113.35 |
| 117 | 241.37 | 113.41 |
| 118 | 243.42 | 113.52 |
| 119 | 245.47 | 113.68 |
| 120 | 247.52 | 113.86 |
| 121 | 249.56 | 113.94 |
| 122 | 251.61 | 114.06 |
| 123 | 253.66 | 114.04 |
| 124 | 255.71 | 114.06 |
| 125 | 257.76 | 114.18 |
| 126 | 259.81 | 114.11 |
| 127 | 261.86 | 114.22 |
| 128 | 263.91 | 114.30 |
| 129 | 266.29 | 114.34 |
| 130 | 268.67 | 114.37 |
| 131 | 271.05 | 114.39 |
| 132 | 273.43 | 114.54 |
| 133 | 275.81 | 114.72 |
| 134 | 278.19 | 114.95 |
| 135 | 280.57 | 115.11 |
| 136 | 282.95 | 115.06 |
| 137 | 285.33 | 115.04 |
| 138 | 287.71 | 115.04 |
| 139 | 290.09 | 115.10 |
| 140 | 292.47 | 115.35 |
| 141 | 294.85 | 115.56 |
| 142 | 297.23 | 115.64 |
| 143 | 299.62 | 115.92 |
| 144 | 302.00 | 116.20 |
| 145 | 304.38 | 116.26 |
| 146 | 306.76 | 116.14 |
| 147 | 309.14 | 116.04 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 148 | 311.52 | 116.05 |
| 149 | 313.90 | 116.20 |
| 150 | 316.28 | 116.34 |
| 151 | 318.66 | 116.57 |
| 152 | 321.04 | 116.88 |
| 153 | 323.42 | 117.32 |
| 154 | 325.80 | 117.74 |
| 155 | 328.18 | 117.85 |
| 156 | 330.56 | 117.89 |
| 157 | 332.94 | 117.99 |
| 158 | 335.32 | 118.01 |
| 159 | 337.71 | 117.99 |
| 160 | 340.09 | 118.06 |
| 161 | 342.00 | 118.25 |
| 162 | 343.91 | 118.33 |
| 163 | 345.82 | 118.54 |
| 164 | 347.74 | 118.68 |
| 165 | 349.65 | 118.79 |
| 166 | 351.56 | 118.83 |
| 167 | 353.47 | 118.83 |
| 168 | 355.38 | 118.75 |
| 169 | 357.30 | 118.72 |
| 170 | 359.21 | 118.92 |
| 171 | 361.12 | 119.31 |
| 172 | 363.03 | 119.41 |
| 173 | 364.95 | 119.33 |
| 174 | 366.86 | 119.26 |
| 175 | 368.77 | 119.19 |
| 176 | 370.68 | 119.22 |
| 177 | 372.60 | 119.25 |
| 178 | 374.51 | 119.22 |
| 179 | 376.42 | 119.31 |
| 180 | 378.33 | 119.40 |
| 181 | 380.25 | 119.46 |
| 182 | 382.16 | 119.57 |
| 183 | 384.07 | 119.68 |
| 184 | 385.98 | 119.77 |
| 185 | 387.89 | 119.74 |
| 186 | 389.81 | 119.63 |
| 187 | 391.72 | 119.54 |
| 188 | 393.63 | 119.50 |
| 189 | 395.54 | 119.55 |
| 190 | 397.46 | 119.60 |
| 191 | 399.37 | 119.59 |
| 192 | 401.28 | 119.53 |
| 193 | 403.32 | 119.56 |
| 194 | 405.36 | 119.69 |
| 195 | 407.40 | 119.65 |
| 196 | 409.43 | 119.60 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 197 | 411.47 | 119.56 |
| 198 | 413.51 | 119.68 |
| 199 | 415.55 | 119.75 |
| 200 | 417.59 | 119.64 |
| 201 | 419.63 | 119.53 |
| 202 | 421.66 | 119.25 |
| 203 | 423.70 | 118.97 |
| 204 | 425.74 | 118.87 |
| 205 | 427.78 | 118.84 |
| 206 | 429.82 | 118.85 |
| 207 | 431.86 | 118.79 |
| 208 | 433.89 | 118.79 |
| 209 | 435.16 | 118.82 |
| 210 | 436.43 | 118.81 |
| 211 | 437.70 | 118.75 |
| 212 | 438.97 | 118.69 |
| 213 | 440.24 | 118.62 |
| 214 | 441.51 | 118.53 |
| 215 | 442.78 | 118.30 |
| 216 | 444.05 | 118.11 |
| 217 | 445.32 | 117.95 |
| 218 | 446.59 | 117.79 |
| 219 | 447.86 | 117.65 |
| 220 | 449.13 | 117.54 |
| 221 | 450.40 | 117.45 |
| 222 | 451.66 | 117.46 |
| 223 | 452.93 | 117.47 |
| 224 | 454.20 | 117.52 |
| 225 | 455.79 | 117.60 |
| 226 | 457.37 | 117.57 |
| 227 | 458.96 | 117.53 |
| 228 | 460.54 | 117.50 |
| 229 | 462.12 | 117.51 |
| 230 | 463.71 | 117.43 |
| 231 | 465.29 | 117.34 |
| 232 | 466.88 | 117.20 |
| 233 | 468.46 | 117.06 |
| 234 | 470.04 | 116.86 |
| 235 | 471.63 | 116.65 |
| 236 | 473.21 | 116.45 |
| 237 | 474.80 | 116.28 |
| 238 | 476.38 | 116.15 |
| 239 | 477.97 | 116.10 |
| 240 | 479.55 | 115.99 |
| 241 | 481.13 | 116.06 |
| 242 | 482.72 | 116.07 |
| 243 | 484.30 | 115.97 |
| 244 | 485.89 | 115.90 |
| 245 | 487.47 | 115.84 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 246 | 489.05 | 115.75 |
| 247 | 490.64 | 115.65 |
| 248 | 492.22 | 115.55 |
| 249 | 493.81 | 115.47 |
| 250 | 495.39 | 115.39 |
| 251 | 496.97 | 115.30 |
| 252 | 498.56 | 115.13 |
| 253 | 500.14 | 114.94 |
| 254 | 501.73 | 114.84 |
| 255 | 503.31 | 114.80 |
| 256 | 504.90 | 114.88 |
| 257 | 506.48 | 114.90 |
| 258 | 508.06 | 114.86 |
| 259 | 509.65 | 114.74 |
| 260 | 511.23 | 114.58 |
| 261 | 512.82 | 114.47 |
| 262 | 514.40 | 114.43 |
| 263 | 515.98 | 114.35 |
| 264 | 517.57 | 114.36 |
| 265 | 519.15 | 114.35 |
| 266 | 520.74 | 114.31 |
| 267 | 522.32 | 114.23 |
| 268 | 523.91 | 114.27 |
| 269 | 525.49 | 114.30 |
| 270 | 527.07 | 114.28 |
| 271 | 528.66 | 114.26 |
| 272 | 530.24 | 114.31 |
| 273 | 531.83 | 114.44 |
| 274 | 533.41 | 114.46 |
| 275 | 534.99 | 114.44 |
| 276 | 536.58 | 114.41 |
| 277 | 538.16 | 114.42 |
| 278 | 539.75 | 114.43 |
| 279 | 541.33 | 114.45 |
| 280 | 542.91 | 114.46 |
| 281 | 544.50 | 114.44 |
| 282 | 546.08 | 114.35 |
| 283 | 547.67 | 114.36 |
| 284 | 549.25 | 114.53 |
| 285 | 550.84 | 114.67 |
| 286 | 552.42 | 114.74 |
| 287 | 554.00 | 114.81 |
| 288 | 555.59 | 114.97 |
| 289 | 557.17 | 114.76 |
| 290 | 558.76 | 114.53 |
| 291 | 560.34 | 114.55 |
| 292 | 561.92 | 114.68 |
| 293 | 563.51 | 114.59 |
| 294 | 565.09 | 114.55 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 295 | 566.68 | 114.50 |
| 296 | 568.26 | 114.45 |
| 297 | 569.85 | 114.35 |
| 298 | 571.43 | 114.43 |
| 299 | 573.01 | 114.63 |
| 300 | 574.60 | 114.78 |
| 301 | 576.18 | 114.83 |
| 302 | 577.77 | 114.98 |
| 303 | 579.35 | 115.16 |
| 304 | 580.93 | 115.19 |
| 305 | 582.52 | 115.34 |
| 306 | 584.10 | 115.42 |
| 307 | 585.69 | 115.40 |
| 308 | 587.27 | 115.41 |
| 309 | 588.86 | 115.43 |
| 310 | 590.44 | 115.45 |
| 311 | 592.02 | 115.50 |
| 312 | 593.61 | 115.58 |
| 313 | 595.19 | 115.67 |
| 314 | 596.78 | 115.74 |
| 315 | 598.36 | 115.90 |
| 316 | 599.94 | 116.08 |
| 317 | 601.53 | 116.25 |
| 318 | 603.11 | 116.36 |
| 319 | 604.70 | 116.47 |
| 320 | 606.28 | 116.68 |
| 321 | 607.86 | 116.78 |
| 322 | 609.45 | 116.68 |
| 323 | 611.03 | 116.66 |
| 324 | 612.62 | 116.65 |
| 325 | 614.20 | 116.52 |
| 326 | 615.79 | 116.47 |
| 327 | 617.37 | 116.48 |
| 328 | 618.95 | 116.53 |
| 329 | 620.54 | 116.58 |
| 330 | 622.12 | 116.59 |
| 331 | 623.71 | 116.61 |
| 332 | 625.29 | 116.66 |
| 333 | 626.87 | 116.70 |
| 334 | 628.46 | 116.79 |
| 335 | 630.04 | 116.85 |
| 336 | 631.63 | 116.86 |
| 337 | 633.21 | 116.90 |
| 338 | 634.80 | 116.93 |
| 339 | 636.38 | 116.95 |
| 340 | 637.96 | 117.01 |
| 341 | 639.55 | 117.07 |
| 342 | 641.13 | 117.14 |
| 343 | 642.72 | 117.25 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 344 | 644.30 | 117.38 |
| 345 | 645.88 | 117.49 |
| 346 | 647.47 | 117.59 |
| 347 | 649.05 | 117.73 |
| 348 | 650.64 | 117.98 |
| 349 | 652.22 | 118.39 |
| 350 | 653.81 | 118.74 |
| 351 | 655.39 | 118.97 |
| 352 | 656.97 | 118.89 |
| 353 | 659.34 | 118.78 |
| 354 | 661.72 | 118.81 |
| 355 | 664.09 | 118.73 |
| 356 | 666.46 | 118.63 |
| 357 | 668.83 | 118.58 |
| 358 | 671.20 | 118.50 |
| 359 | 673.57 | 118.42 |
| 360 | 675.94 | 118.36 |
| 361 | 678.32 | 118.47 |
| 362 | 680.69 | 118.74 |
| 363 | 683.06 | 119.03 |
| 364 | 685.43 | 119.15 |
| 365 | 687.80 | 119.04 |
| 366 | 690.17 | 118.81 |
| 367 | 692.54 | 118.59 |
| 368 | 694.91 | 118.67 |
| 369 | 697.29 | 118.51 |
| 370 | 699.66 | 118.43 |
| 371 | 702.03 | 118.52 |
| 372 | 704.40 | 118.65 |
| 373 | 706.77 | 118.79 |
| 374 | 709.14 | 118.77 |
| 375 | 711.51 | 118.65 |
| 376 | 713.89 | 118.46 |
| 377 | 716.26 | 118.22 |
| 378 | 718.63 | 117.95 |
| 379 | 721.00 | 117.99 |
| 380 | 723.37 | 118.01 |
| 381 | 725.74 | 117.81 |
| 382 | 728.11 | 117.77 |
| 383 | 730.48 | 117.77 |
| 384 | 732.86 | 117.86 |
| 385 | 734.69 | 117.91 |
| 386 | 736.52 | 117.94 |
| 387 | 738.35 | 117.92 |
| 388 | 740.18 | 117.86 |
| 389 | 742.02 | 117.72 |
| 390 | 743.85 | 117.71 |
| 391 | 745.68 | 117.61 |
| 392 | 747.51 | 117.50 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 393 | 749.35 | 117.41 |
| 394 | 751.18 | 117.45 |
| 395 | 753.01 | 117.56 |
| 396 | 754.84 | 117.45 |
| 397 | 756.67 | 117.36 |
| 398 | 758.51 | 117.32 |
| 399 | 760.34 | 117.34 |
| 400 | 762.17 | 117.32 |
| 401 | 764.00 | 117.29 |
| 402 | 765.83 | 117.23 |
| 403 | 767.67 | 117.36 |
| 404 | 769.50 | 117.60 |
| 405 | 771.33 | 117.84 |
| 406 | 773.16 | 117.92 |
| 407 | 775.00 | 117.96 |
| 408 | 776.83 | 117.83 |
| 409 | 778.66 | 117.64 |
| 410 | 780.49 | 117.40 |
| 411 | 782.32 | 117.45 |
| 412 | 784.16 | 117.50 |
| 413 | 785.99 | 117.52 |
| 414 | 787.82 | 117.51 |
| 415 | 789.65 | 117.55 |
| 416 | 791.48 | 117.56 |
| 417 | 793.32 | 117.62 |
| 418 | 795.15 | 117.68 |
| 419 | 796.98 | 117.58 |
| 420 | 798.81 | 117.54 |
| 421 | 800.65 | 117.54 |
| 422 | 802.48 | 117.61 |
| 423 | 804.31 | 117.65 |
| 424 | 806.14 | 117.68 |
| 425 | 807.97 | 117.69 |
| 426 | 809.81 | 117.66 |
| 427 | 811.64 | 117.59 |
| 428 | 813.47 | 117.55 |
| 429 | 815.30 | 117.58 |
| 430 | 817.14 | 117.63 |
| 431 | 818.97 | 117.87 |
| 432 | 820.80 | 118.14 |
| 433 | 822.63 | 118.28 |
| 434 | 824.46 | 118.28 |
| 435 | 826.30 | 118.22 |
| 436 | 828.13 | 118.19 |
| 437 | 829.96 | 118.14 |
| 438 | 831.79 | 118.07 |
| 439 | 833.62 | 118.08 |
| 440 | 835.46 | 118.21 |
| 441 | 837.29 | 118.35 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 442 | 839.12 | 118.46 |
| 443 | 840.95 | 118.51 |
| 444 | 842.79 | 118.50 |
| 445 | 844.62 | 118.50 |
| 446 | 846.45 | 118.70 |
| 447 | 848.28 | 118.80 |
| 448 | 850.11 | 118.90 |
| 449 | 852.04 | 119.25 |
| 450 | 853.97 | 119.45 |
| 451 | 855.89 | 119.51 |
| 452 | 857.82 | 119.52 |
| 453 | 859.74 | 119.60 |
| 454 | 861.67 | 119.66 |
| 455 | 863.60 | 119.61 |
| 456 | 865.52 | 119.52 |
| 457 | 867.45 | 119.44 |
| 458 | 869.38 | 119.36 |
| 459 | 871.30 | 119.24 |
| 460 | 873.23 | 119.12 |
| 461 | 875.15 | 119.06 |
| 462 | 877.08 | 119.04 |
| 463 | 879.01 | 119.07 |
| 464 | 880.93 | 119.06 |
| 465 | 882.86 | 119.03 |
| 466 | 884.78 | 119.00 |
| 467 | 886.71 | 118.98 |
| 468 | 888.64 | 119.22 |
| 469 | 890.56 | 119.57 |
| 470 | 892.49 | 119.86 |
| 471 | 894.42 | 119.72 |
| 472 | 896.34 | 119.39 |
| 473 | 898.27 | 119.28 |
| 474 | 900.19 | 119.35 |
| 475 | 902.12 | 119.46 |
| 476 | 904.05 | 119.53 |
| 477 | 905.97 | 119.57 |
| 478 | 907.90 | 119.65 |
| 479 | 909.82 | 119.82 |
| 480 | 911.75 | 119.98 |
| 481 | 913.68 | 120.01 |
| 482 | 915.60 | 119.93 |
| 483 | 917.53 | 119.75 |
| 484 | 919.46 | 119.58 |
| 485 | 921.38 | 119.51 |
| 486 | 923.31 | 119.47 |
| 487 | 925.23 | 119.42 |
| 488 | 927.16 | 119.33 |
| 489 | 929.09 | 119.26 |
| 490 | 931.01 | 119.19 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 491 | 932.94 | 119.20 |
| 492 | 934.86 | 119.33 |
| 493 | 936.79 | 119.52 |
| 494 | 938.72 | 119.50 |
| 495 | 940.64 | 119.52 |
| 496 | 942.57 | 119.63 |
| 497 | 944.50 | 119.63 |
| 498 | 946.42 | 119.47 |
| 499 | 948.35 | 119.42 |
| 500 | 950.27 | 119.46 |
| 501 | 952.20 | 119.39 |
| 502 | 954.13 | 119.33 |
| 503 | 956.05 | 119.19 |
| 504 | 957.98 | 119.00 |
| 505 | 959.90 | 118.80 |
| 506 | 961.83 | 118.78 |
| 507 | 963.76 | 118.81 |
| 508 | 965.68 | 118.84 |
| 509 | 967.61 | 118.86 |
| 510 | 969.54 | 118.94 |
| 511 | 971.46 | 118.95 |
| 512 | 973.39 | 118.87 |
| 513 | 975.71 | 118.74 |
| 514 | 978.04 | 118.77 |
| 515 | 980.37 | 118.62 |
| 516 | 982.70 | 118.41 |
| 517 | 985.02 | 118.15 |
| 518 | 987.35 | 117.99 |
| 519 | 989.68 | 118.21 |
| 520 | 992.00 | 118.35 |
| 521 | 994.33 | 118.37 |
| 522 | 996.66 | 118.31 |
| 523 | 998.99 | 118.16 |
| 524 | 1001.31 | 117.97 |
| 525 | 1003.64 | 117.77 |
| 526 | 1005.97 | 117.63 |
| 527 | 1008.29 | 117.61 |
| 528 | 1010.62 | 117.38 |
| 529 | 1012.95 | 117.25 |
| 530 | 1015.27 | 117.21 |
| 531 | 1017.60 | 117.07 |
| 532 | 1019.93 | 117.01 |
| 533 | 1022.26 | 116.85 |
| 534 | 1024.58 | 116.65 |
| 535 | 1026.91 | 116.42 |
| 536 | 1029.24 | 116.26 |
| 537 | 1031.56 | 116.22 |
| 538 | 1033.89 | 116.30 |
| 539 | 1036.22 | 116.28 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 540 | 1038.54 | 116.22 |
| 541 | 1040.87 | 116.15 |
| 542 | 1043.20 | 116.04 |
| 543 | 1045.53 | 116.04 |
| 544 | 1047.85 | 116.06 |
| 545 | 1050.18 | 116.00 |
| 546 | 1052.51 | 115.93 |
| 547 | 1054.83 | 115.86 |
| 548 | 1057.16 | 115.71 |
| 549 | 1059.49 | 115.51 |
| 550 | 1061.82 | 115.36 |
| 551 | 1064.14 | 115.19 |
| 552 | 1066.47 | 115.02 |
| 553 | 1068.80 | 114.93 |
| 554 | 1071.12 | 114.93 |
| 555 | 1073.45 | 114.97 |
| 556 | 1075.78 | 114.73 |
| 557 | 1078.10 | 114.56 |
| 558 | 1080.43 | 114.58 |
| 559 | 1082.76 | 114.56 |
| 560 | 1085.09 | 114.49 |
| 561 | 1087.41 | 114.31 |
| 562 | 1089.74 | 114.02 |
| 563 | 1092.07 | 113.72 |
| 564 | 1094.39 | 113.74 |
| 565 | 1096.72 | 113.66 |
| 566 | 1099.05 | 113.28 |
| 567 | 1101.37 | 112.93 |
| 568 | 1103.70 | 112.96 |
| 569 | 1106.03 | 112.96 |
| 570 | 1108.36 | 113.07 |
| 571 | 1110.68 | 113.19 |
| 572 | 1113.01 | 113.22 |
| 573 | 1115.34 | 113.28 |
| 574 | 1117.66 | 113.43 |
| 575 | 1119.99 | 113.74 |
| 576 | 1122.32 | 113.60 |
| 577 | 1124.37 | 113.38 |
| 578 | 1126.43 | 113.14 |
| 579 | 1128.48 | 113.03 |
| 580 | 1130.53 | 112.87 |
| 581 | 1132.59 | 112.94 |
| 582 | 1134.64 | 112.99 |
| 583 | 1136.70 | 112.96 |
| 584 | 1138.75 | 112.93 |
| 585 | 1140.80 | 112.97 |
| 586 | 1142.86 | 113.02 |
| 587 | 1144.91 | 113.07 |
| 588 | 1146.97 | 113.09 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 589 | 1149.02 | 113.11 |
| 590 | 1151.07 | 112.93 |
| 591 | 1153.13 | 112.83 |
| 592 | 1155.18 | 112.85 |
| 593 | 1157.24 | 112.88 |
| 594 | 1159.29 | 112.94 |
| 595 | 1161.34 | 113.06 |
| 596 | 1163.40 | 113.11 |
| 597 | 1165.45 | 113.18 |
| 598 | 1167.51 | 113.53 |
| 599 | 1169.56 | 113.68 |
| 600 | 1171.61 | 113.73 |
| 601 | 1173.67 | 113.72 |
| 602 | 1175.72 | 113.69 |
| 603 | 1177.78 | 113.68 |
| 604 | 1179.83 | 113.79 |
| 605 | 1181.88 | 113.89 |
| 606 | 1183.94 | 113.99 |
| 607 | 1185.99 | 114.13 |
| 608 | 1188.05 | 114.25 |
| 609 | 1190.42 | 114.59 |
| 610 | 1192.79 | 114.89 |
| 611 | 1195.17 | 114.95 |
| 612 | 1197.54 | 114.81 |
| 613 | 1199.92 | 114.75 |
| 614 | 1202.29 | 114.64 |
| 615 | 1204.67 | 114.92 |
| 616 | 1207.04 | 114.96 |
| 617 | 1209.41 | 114.94 |
| 618 | 1211.79 | 114.98 |
| 619 | 1214.16 | 114.87 |
| 620 | 1216.54 | 114.78 |
| 621 | 1218.91 | 114.82 |
| 622 | 1221.28 | 115.03 |
| 623 | 1223.66 | 115.38 |
| 624 | 1226.03 | 115.63 |
| 625 | 1228.41 | 115.67 |
| 626 | 1230.78 | 115.70 |
| 627 | 1233.15 | 115.76 |
| 628 | 1235.53 | 115.91 |
| 629 | 1237.90 | 116.13 |
| 630 | 1240.28 | 116.24 |
| 631 | 1242.65 | 116.33 |
| 632 | 1245.02 | 116.57 |
| 633 | 1247.40 | 116.54 |
| 634 | 1249.77 | 116.27 |
| 635 | 1252.15 | 116.05 |
| 636 | 1254.52 | 115.90 |
| 637 | 1256.90 | 115.73 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 638 | 1259.27 | 115.66 |
| 639 | 1261.64 | 115.67 |
| 640 | 1264.02 | 115.58 |
| 641 | 1266.46 | 115.48 |
| 642 | 1268.90 | 115.42 |
| 643 | 1271.35 | 115.38 |
| 644 | 1273.79 | 115.39 |
| 645 | 1276.23 | 115.52 |
| 646 | 1278.68 | 115.83 |
| 647 | 1281.12 | 115.97 |
| 648 | 1283.56 | 116.05 |
| 649 | 1286.01 | 115.85 |
| 650 | 1288.45 | 115.69 |
| 651 | 1290.89 | 115.61 |
| 652 | 1293.34 | 115.57 |
| 653 | 1295.78 | 115.37 |
| 654 | 1298.22 | 115.15 |
| 655 | 1300.66 | 115.16 |
| 656 | 1303.11 | 115.17 |
| 657 | 1305.55 | 115.16 |
| 658 | 1307.99 | 115.17 |
| 659 | 1310.44 | 115.10 |
| 660 | 1312.88 | 115.03 |
| 661 | 1315.32 | 114.97 |
| 662 | 1317.77 | 114.83 |
| 663 | 1320.21 | 114.83 |
| 664 | 1322.65 | 114.77 |
| 665 | 1325.10 | 114.70 |
| 666 | 1327.54 | 114.68 |
| 667 | 1329.98 | 114.63 |
| 668 | 1332.43 | 114.53 |
| 669 | 1334.87 | 114.41 |
| 670 | 1337.31 | 114.27 |
| 671 | 1339.75 | 114.16 |
| 672 | 1342.20 | 114.20 |
| 673 | 1344.10 | 114.16 |
| 674 | 1346.00 | 113.95 |
| 675 | 1347.90 | 113.80 |
| 676 | 1349.80 | 113.83 |
| 677 | 1351.70 | 113.77 |
| 678 | 1353.60 | 113.74 |
| 679 | 1355.50 | 113.71 |
| 680 | 1357.40 | 113.66 |
| 681 | 1359.30 | 113.59 |
| 682 | 1361.20 | 113.70 |
| 683 | 1363.11 | 113.82 |
| 684 | 1365.01 | 113.87 |
| 685 | 1366.91 | 113.88 |
| 686 | 1368.81 | 114.05 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 687 | 1370.71 | 114.25 |
| 688 | 1372.61 | 114.34 |
| 689 | 1374.51 | 114.07 |
| 690 | 1376.41 | 113.85 |
| 691 | 1378.31 | 113.77 |
| 692 | 1380.21 | 113.80 |
| 693 | 1382.11 | 113.86 |
| 694 | 1384.01 | 113.69 |
| 695 | 1385.91 | 113.55 |
| 696 | 1387.81 | 113.44 |
| 697 | 1389.71 | 113.35 |
| 698 | 1391.62 | 113.34 |
| 699 | 1393.52 | 113.37 |
| 700 | 1395.42 | 113.43 |
| 701 | 1397.32 | 113.52 |
| 702 | 1399.22 | 113.61 |
| 703 | 1401.12 | 113.64 |
| 704 | 1403.02 | 113.59 |
| 705 | 1404.92 | 113.47 |
| 706 | 1406.82 | 113.40 |
| 707 | 1408.72 | 113.37 |
| 708 | 1410.62 | 113.44 |
| 709 | 1412.52 | 113.57 |
| 710 | 1414.42 | 113.68 |
| 711 | 1416.32 | 113.69 |
| 712 | 1418.23 | 113.81 |
| 713 | 1420.13 | 113.99 |
| 714 | 1422.03 | 113.99 |
| 715 | 1423.93 | 113.81 |
| 716 | 1425.83 | 113.66 |
| 717 | 1427.73 | 113.56 |
| 718 | 1429.63 | 113.52 |
| 719 | 1431.53 | 113.23 |
| 720 | 1433.43 | 112.95 |
| 721 | 1435.33 | 112.70 |
| 722 | 1437.23 | 112.46 |
| 723 | 1439.13 | 112.25 |
| 724 | 1441.03 | 111.97 |
| 725 | 1442.93 | 111.69 |
| 726 | 1444.83 | 111.46 |
| 727 | 1446.74 | 111.37 |
| 728 | 1448.64 | 111.37 |
| 729 | 1450.54 | 111.43 |
| 730 | 1452.44 | 111.53 |
| 731 | 1454.34 | 111.65 |
| 732 | 1456.24 | 111.74 |
| 733 | 1458.14 | 111.81 |
| 734 | 1460.04 | 111.87 |
| 735 | 1461.94 | 111.93 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 736 | 1463.84 | 111.95 |

Comment:

## Weir Cross Section: X-0220W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 125.09 |
| 1 | 1.32 | 125.12 |
| 2 | 2.63 | 125.07 |
| 3 | 3.95 | 124.92 |
| 4 | 5.26 | 124.87 |
| 5 | 6.58 | 124.89 |
| 6 | 7.89 | 124.81 |
| 7 | 9.21 | 124.70 |
| 8 | 10.52 | 124.62 |
| 9 | 11.84 | 124.53 |
| 10 | 13.15 | 124.51 |
| 11 | 14.47 | 124.51 |
| 12 | 15.78 | 124.50 |
| 13 | 17.10 | 124.47 |
| 14 | 18.41 | 124.44 |
| 15 | 19.73 | 124.40 |
| 16 | 21.04 | 124.36 |
| 17 | 22.36 | 124.33 |
| 18 | 23.67 | 124.28 |
| 19 | 24.99 | 124.24 |
| 20 | 26.30 | 124.23 |
| 21 | 27.62 | 124.18 |
| 22 | 28.93 | 124.07 |
| 23 | 30.25 | 124.02 |
| 24 | 31.56 | 124.01 |
| 25 | 32.88 | 124.01 |
| 26 | 34.19 | 124.00 |
| 27 | 35.51 | 124.01 |
| 28 | 36.82 | 124.01 |
| 29 | 38.14 | 124.00 |
| 30 | 39.45 | 123.98 |
| 31 | 40.77 | 123.97 |
| 32 | 42.08 | 123.96 |
| 33 | 43.40 | 123.92 |
| 34 | 44.71 | 123.87 |
| 35 | 46.03 | 123.83 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 36 | 47.35 | 123.80 |
| 37 | 48.66 | 123.76 |
| 38 | 49.98 | 123.71 |
| 39 | 51.29 | 123.69 |
| 40 | 52.61 | 123.67 |
| 41 | 53.92 | 123.67 |
| 42 | 55.24 | 123.66 |
| 43 | 56.55 | 123.63 |
| 44 | 57.87 | 123.59 |
| 45 | 59.18 | 123.55 |
| 46 | 60.50 | 123.55 |
| 47 | 61.81 | 123.57 |
| 48 | 63.13 | 123.57 |
| 49 | 64.44 | 123.56 |
| 50 | 65.76 | 123.54 |
| 51 | 67.07 | 123.51 |
| 52 | 68.39 | 123.45 |
| 53 | 69.70 | 123.38 |
| 54 | 71.02 | 123.30 |
| 55 | 72.33 | 123.23 |
| 56 | 73.65 | 123.16 |
| 57 | 74.96 | 123.09 |
| 58 | 76.28 | 123.09 |
| 59 | 77.59 | 123.10 |
| 60 | 78.91 | 123.06 |
| 61 | 80.22 | 123.02 |
| 62 | 81.54 | 122.94 |
| 63 | 82.85 | 122.85 |
| 64 | 84.17 | 122.71 |
| 65 | 86.57 | 122.60 |
| 66 | 88.98 | 122.61 |
| 67 | 91.39 | 122.73 |
| 68 | 93.79 | 122.64 |
| 69 | 96.20 | 122.57 |
| 70 | 98.60 | 122.52 |
| 71 | 101.01 | 122.23 |
| 72 | 103.41 | 121.93 |
| 73 | 105.82 | 121.76 |
| 74 | 108.23 | 121.65 |
| 75 | 110.63 | 121.50 |
| 76 | 113.04 | 121.42 |
| 77 | 115.44 | 121.30 |
| 78 | 117.85 | 121.00 |
| 79 | 120.25 | 120.94 |
| 80 | 122.66 | 120.85 |
| 81 | 124.46 | 120.64 |
| 82 | 126.26 | 120.16 |
| 83 | 128.06 | 119.65 |
| 84 | 129.86 | 119.07 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 85 | 131.66 | 118.38 |
| 86 | 133.46 | 117.73 |
| 87 | 135.26 | 117.18 |
| 88 | 137.06 | 116.71 |
| 89 | 138.86 | 116.33 |
| 90 | 140.67 | 116.26 |
| 91 | 142.47 | 116.33 |
| 92 | 144.27 | 116.51 |
| 93 | 146.07 | 116.81 |
| 94 | 147.87 | 117.18 |
| 95 | 149.67 | 117.60 |
| 96 | 151.47 | 118.06 |
| 97 | 153.27 | 118.50 |
| 98 | 155.07 | 118.86 |
| 99 | 156.87 | 119.13 |
| 100 | 158.67 | 119.28 |
| 101 | 160.47 | 119.40 |
| 102 | 162.27 | 119.49 |
| 103 | 164.07 | 119.55 |
| 104 | 165.87 | 119.60 |
| 105 | 167.67 | 119.64 |
| 106 | 169.48 | 119.66 |
| 107 | 171.28 | 119.71 |
| 108 | 173.08 | 119.75 |
| 109 | 174.88 | 119.77 |
| 110 | 176.68 | 119.79 |
| 111 | 178.48 | 119.76 |
| 112 | 180.28 | 119.73 |

Comment:

## Weir Cross Section: X-0230W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 119.26 |
| 1 | 1.88 | 119.12 |
| 2 | 3.76 | 118.98 |
| 3 | 5.63 | 118.98 |
| 4 | 7.51 | 119.05 |
| 5 | 9.39 | 119.16 |
| 6 | 11.27 | 118.98 |
| 7 | 13.15 | 118.84 |
| 8 | 15.02 | 118.69 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 9 | 16.81 | 118.56 |
| 10 | 18.60 | 118.50 |
| 11 | 20.39 | 118.36 |
| 12 | 22.17 | 118.22 |
| 13 | 23.96 | 118.19 |
| 14 | 25.75 | 118.23 |
| 15 | 27.54 | 118.26 |
| 16 | 29.32 | 118.26 |
| 17 | 31.11 | 118.14 |
| 18 | 32.90 | 118.11 |
| 19 | 34.69 | 118.11 |
| 20 | 36.47 | 118.11 |
| 21 | 38.26 | 118.10 |
| 22 | 40.05 | 118.11 |
| 23 | 41.84 | 118.14 |
| 24 | 43.63 | 118.15 |
| 25 | 45.41 | 118.13 |
| 26 | 47.20 | 118.11 |
| 27 | 48.99 | 118.11 |
| 28 | 50.78 | 118.07 |
| 29 | 52.56 | 118.03 |
| 30 | 54.35 | 117.99 |
| 31 | 56.14 | 117.96 |
| 32 | 57.93 | 117.97 |
| 33 | 59.71 | 117.99 |
| 34 | 61.50 | 117.99 |
| 35 | 63.29 | 117.96 |
| 36 | 65.08 | 117.95 |
| 37 | 66.86 | 117.96 |
| 38 | 68.65 | 117.98 |
| 39 | 70.44 | 117.97 |
| 40 | 72.23 | 117.96 |
| 41 | 74.64 | 117.91 |
| 42 | 77.06 | 117.88 |
| 43 | 79.47 | 117.83 |
| 44 | 81.89 | 117.78 |
| 45 | 84.30 | 117.80 |
| 46 | 86.72 | 117.78 |
| 47 | 89.13 | 117.79 |
| 48 | 91.55 | 117.78 |
| 49 | 93.96 | 117.79 |
| 50 | 96.38 | 117.84 |
| 51 | 98.79 | 117.88 |
| 52 | 101.21 | 117.89 |
| 53 | 103.62 | 117.88 |
| 54 | 106.04 | 117.90 |
| 55 | 108.45 | 117.93 |
| 56 | 110.87 | 117.92 |
| 57 | 112.37 | 117.90 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 58 | 113.87 | 117.87 |
| 59 | 115.37 | 117.84 |
| 60 | 116.87 | 117.80 |
| 61 | 118.37 | 117.76 |
| 62 | 119.87 | 117.72 |
| 63 | 121.38 | 117.70 |
| 64 | 122.88 | 117.69 |
| 65 | 124.38 | 117.69 |
| 66 | 125.88 | 117.69 |
| 67 | 127.38 | 117.69 |
| 68 | 128.88 | 117.68 |
| 69 | 130.38 | 117.68 |
| 70 | 131.89 | 117.69 |
| 71 | 133.39 | 117.68 |
| 72 | 134.89 | 117.67 |
| 73 | 136.39 | 117.68 |
| 74 | 137.89 | 117.69 |
| 75 | 139.39 | 117.71 |
| 76 | 140.90 | 117.72 |
| 77 | 142.40 | 117.72 |
| 78 | 143.90 | 117.69 |
| 79 | 145.40 | 117.69 |
| 80 | 146.90 | 117.69 |
| 81 | 148.40 | 117.69 |
| 82 | 149.90 | 117.69 |
| 83 | 151.41 | 117.71 |
| 84 | 152.91 | 117.72 |
| 85 | 154.41 | 117.73 |
| 86 | 155.91 | 117.77 |
| 87 | 157.41 | 117.82 |
| 88 | 158.91 | 117.86 |
| 89 | 160.41 | 117.89 |
| 90 | 161.92 | 117.93 |
| 91 | 163.42 | 117.96 |
| 92 | 164.92 | 118.01 |
| 93 | 166.42 | 118.03 |
| 94 | 167.92 | 118.06 |
| 95 | 169.42 | 118.09 |
| 96 | 170.92 | 118.11 |
| 97 | 172.43 | 118.12 |
| 98 | 173.93 | 118.16 |
| 99 | 175.43 | 118.18 |
| 100 | 176.93 | 118.19 |
| 101 | 178.43 | 118.23 |
| 102 | 179.93 | 118.26 |
| 103 | 181.43 | 118.32 |
| 104 | 182.94 | 118.36 |
| 105 | 184.44 | 118.37 |
| 106 | 185.94 | 118.41 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 107 | 187.44 | 118.45 |
| 108 | 188.94 | 118.53 |
| 109 | 190.44 | 118.61 |
| 110 | 191.94 | 118.71 |
| 111 | 193.45 | 118.78 |
| 112 | 194.95 | 118.85 |
| 113 | 196.45 | 118.90 |
| 114 | 197.95 | 118.95 |
| 115 | 199.45 | 118.99 |
| 116 | 200.95 | 118.98 |
| 117 | 202.46 | 118.96 |
| 118 | 203.96 | 118.94 |
| 119 | 205.46 | 118.97 |
| 120 | 206.96 | 119.03 |
| 121 | 209.22 | 119.10 |
| 122 | 211.47 | 119.14 |
| 123 | 213.73 | 119.20 |
| 124 | 215.99 | 119.27 |
| 125 | 218.24 | 119.36 |
| 126 | 220.50 | 119.42 |
| 127 | 222.76 | 119.45 |
| 128 | 225.01 | 119.46 |
| 129 | 227.27 | 119.49 |
| 130 | 229.53 | 119.52 |
| 131 | 231.78 | 119.57 |
| 132 | 234.04 | 119.63 |
| 133 | 236.30 | 119.67 |
| 134 | 238.56 | 119.71 |
| 135 | 240.81 | 119.75 |
| 136 | 243.07 | 119.78 |
| 137 | 245.33 | 119.89 |
| 138 | 247.58 | 120.09 |
| 139 | 249.84 | 120.18 |
| 140 | 252.10 | 120.29 |
| 141 | 254.35 | 120.38 |
| 142 | 256.61 | 120.30 |
| 143 | 258.87 | 120.22 |
| 144 | 261.12 | 120.21 |
| 145 | 263.38 | 120.25 |
| 146 | 265.64 | 120.33 |
| 147 | 267.89 | 120.44 |
| 148 | 270.15 | 120.52 |
| 149 | 272.41 | 120.53 |
| 150 | 274.66 | 120.61 |
| 151 | 276.92 | 120.73 |
| 152 | 279.18 | 120.85 |
| 153 | 281.44 | 120.96 |
| 154 | 283.69 | 121.09 |
| 155 | 285.95 | 121.16 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 156 | 288.21 | 121.18 |
| 157 | 290.46 | 121.20 |
| 158 | 292.72 | 121.26 |
| 159 | 294.98 | 121.35 |
| 160 | 297.23 | 121.47 |
| 161 | 299.49 | 121.47 |
| 162 | 301.75 | 121.53 |
| 163 | 304.00 | 121.59 |
| 164 | 306.26 | 121.62 |
| 165 | 308.52 | 121.64 |
| 166 | 310.77 | 121.70 |
| 167 | 313.03 | 121.79 |
| 168 | 315.29 | 121.90 |
| 169 | 317.54 | 122.02 |
| 170 | 319.80 | 122.14 |
| 171 | 322.06 | 122.18 |
| 172 | 324.31 | 122.18 |
| 173 | 326.57 | 122.29 |
| 174 | 328.83 | 122.42 |
| 175 | 331.09 | 122.58 |
| 176 | 333.34 | 122.75 |
| 177 | 335.60 | 122.87 |
| 178 | 337.86 | 122.93 |
| 179 | 340.11 | 123.07 |
| 180 | 342.37 | 123.42 |
| 181 | 344.63 | 123.67 |
| 182 | 346.88 | 123.74 |
| 183 | 349.14 | 123.79 |
| 184 | 351.40 | 123.93 |

Comment:

## Weir Cross Section: X-0240W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 120.93 |
| 1 | 1.30 | 120.98 |
| 2 | 2.60 | 121.01 |
| 3 | 3.90 | 121.02 |
| 4 | 5.20 | 121.01 |
| 5 | 6.50 | 121.01 |
| 6 | 7.80 | 121.02 |
| 7 | 9.10 | 121.05 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 8 | 10.40 | 121.10 |
| 9 | 11.70 | 121.10 |
| 10 | 13.00 | 121.07 |
| 11 | 14.30 | 121.10 |
| 12 | 15.60 | 121.15 |
| 13 | 16.90 | 121.17 |
| 14 | 18.20 | 121.19 |
| 15 | 19.50 | 121.19 |
| 16 | 20.80 | 121.13 |
| 17 | 22.10 | 121.08 |
| 18 | 23.40 | 121.10 |
| 19 | 24.70 | 121.16 |
| 20 | 26.00 | 121.12 |
| 21 | 27.31 | 121.06 |
| 22 | 28.61 | 121.04 |
| 23 | 29.91 | 121.01 |
| 24 | 31.21 | 121.05 |
| 25 | 32.51 | 121.12 |
| 26 | 33.81 | 121.11 |
| 27 | 35.11 | 121.07 |
| 28 | 36.41 | 121.04 |
| 29 | 37.71 | 120.96 |
| 30 | 39.01 | 120.85 |
| 31 | 40.31 | 120.79 |
| 32 | 41.61 | 120.77 |
| 33 | 43.40 | 120.59 |
| 34 | 45.18 | 120.48 |
| 35 | 46.97 | 120.39 |
| 36 | 48.76 | 120.28 |
| 37 | 50.55 | 120.18 |
| 38 | 52.34 | 120.10 |
| 39 | 54.13 | 120.07 |
| 40 | 55.92 | 120.04 |
| 41 | 57.70 | 119.99 |
| 42 | 59.49 | 119.99 |
| 43 | 61.28 | 119.96 |
| 44 | 63.07 | 119.92 |
| 45 | 64.86 | 119.85 |
| 46 | 66.65 | 119.98 |
| 47 | 68.43 | 119.97 |
| 48 | 70.22 | 119.97 |
| 49 | 71.84 | 119.97 |
| 50 | 73.45 | 119.94 |
| 51 | 75.07 | 119.80 |
| 52 | 76.68 | 119.54 |
| 53 | 78.29 | 119.37 |
| 54 | 79.91 | 119.25 |
| 55 | 81.52 | 119.21 |
| 56 | 83.14 | 119.15 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 57 | 84.75 | 119.12 |
| 58 | 86.37 | 119.10 |
| 59 | 87.98 | 119.02 |
| 60 | 89.60 | 118.95 |
| 61 | 91.21 | 118.90 |
| 62 | 92.82 | 118.99 |
| 63 | 94.44 | 119.09 |
| 64 | 96.05 | 119.24 |
| 65 | 97.67 | 119.26 |
| 66 | 99.28 | 119.20 |
| 67 | 100.90 | 119.05 |
| 68 | 102.51 | 118.95 |
| 69 | 104.13 | 118.79 |
| 70 | 105.74 | 118.64 |
| 71 | 107.35 | 118.57 |
| 72 | 108.97 | 118.50 |
| 73 | 110.58 | 118.44 |
| 74 | 112.20 | 118.39 |
| 75 | 113.81 | 118.36 |
| 76 | 115.43 | 118.31 |
| 77 | 117.04 | 118.24 |
| 78 | 118.66 | 118.17 |
| 79 | 120.27 | 118.13 |
| 80 | 121.89 | 118.05 |
| 81 | 123.34 | 118.05 |
| 82 | 124.79 | 118.05 |
| 83 | 126.24 | 118.02 |
| 84 | 127.70 | 118.01 |
| 85 | 129.15 | 118.03 |
| 86 | 130.60 | 118.06 |
| 87 | 132.06 | 118.08 |
| 88 | 133.51 | 118.09 |
| 89 | 134.96 | 118.07 |
| 90 | 136.41 | 118.00 |
| 91 | 137.87 | 117.92 |
| 92 | 139.32 | 117.88 |
| 93 | 140.77 | 117.89 |
| 94 | 142.23 | 117.84 |
| 95 | 143.68 | 117.77 |
| 96 | 145.13 | 117.74 |
| 97 | 146.59 | 117.72 |
| 98 | 148.04 | 117.68 |
| 99 | 149.49 | 117.66 |
| 100 | 150.94 | 117.63 |
| 101 | 152.40 | 117.60 |
| 102 | 153.85 | 117.58 |
| 103 | 155.30 | 117.56 |
| 104 | 156.76 | 117.54 |
| 105 | 158.21 | 117.53 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 106 | 159.66 | 117.50 |
| 107 | 161.11 | 117.47 |
| 108 | 162.57 | 117.50 |
| 109 | 164.02 | 117.54 |
| 110 | 165.47 | 117.60 |
| 111 | 166.93 | 117.55 |
| 112 | 168.38 | 117.45 |
| 113 | 170.66 | 117.28 |
| 114 | 172.93 | 117.08 |
| 115 | 175.21 | 116.96 |
| 116 | 177.49 | 116.86 |
| 117 | 179.76 | 116.67 |
| 118 | 182.04 | 116.86 |
| 119 | 184.32 | 117.55 |
| 120 | 186.59 | 117.95 |
| 121 | 189.04 | 118.02 |
| 122 | 191.48 | 118.09 |
| 123 | 193.92 | 118.18 |
| 124 | 196.36 | 118.27 |
| 125 | 198.80 | 118.34 |
| 126 | 201.24 | 118.36 |
| 127 | 203.68 | 118.35 |
| 128 | 206.12 | 118.36 |
| 129 | 208.56 | 118.39 |
| 130 | 211.00 | 118.42 |
| 131 | 213.44 | 118.43 |
| 132 | 215.88 | 118.48 |
| 133 | 218.33 | 118.55 |
| 134 | 220.77 | 118.63 |
| 135 | 223.21 | 118.72 |
| 136 | 225.65 | 118.77 |
| 137 | 227.93 | 118.85 |
| 138 | 230.20 | 118.89 |
| 139 | 232.48 | 118.90 |
| 140 | 234.76 | 118.87 |
| 141 | 237.04 | 118.87 |
| 142 | 239.32 | 118.90 |
| 143 | 241.60 | 118.92 |
| 144 | 243.88 | 118.94 |
| 145 | 246.15 | 118.96 |
| 146 | 248.43 | 119.00 |
| 147 | 250.71 | 119.06 |
| 148 | 252.99 | 119.14 |
| 149 | 255.27 | 119.23 |
| 150 | 257.55 | 119.29 |
| 151 | 259.83 | 119.26 |
| 152 | 262.10 | 119.28 |
| 153 | 264.44 | 119.32 |
| 154 | 266.78 | 119.38 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 155 | 269.12 | 119.42 |
| 156 | 271.46 | 119.43 |
| 157 | 273.80 | 119.46 |
| 158 | 276.14 | 119.49 |
| 159 | 278.48 | 119.54 |
| 160 | 280.82 | 119.63 |
| 161 | 283.16 | 119.66 |
| 162 | 285.50 | 119.68 |
| 163 | 287.84 | 119.78 |
| 164 | 290.18 | 119.84 |
| 165 | 292.52 | 119.95 |
| 166 | 294.86 | 120.07 |
| 167 | 297.20 | 120.16 |
| 168 | 299.54 | 120.27 |
| 169 | 301.93 | 120.43 |
| 170 | 304.33 | 120.50 |
| 171 | 306.72 | 120.33 |
| 172 | 309.11 | 120.11 |
| 173 | 311.51 | 120.06 |
| 174 | 313.90 | 120.09 |
| 175 | 316.29 | 120.08 |
| 176 | 318.68 | 120.14 |
| 177 | 321.08 | 120.34 |
| 178 | 323.47 | 120.61 |
| 179 | 325.86 | 120.86 |
| 180 | 328.26 | 121.11 |
| 181 | 330.65 | 121.35 |
| 182 | 333.04 | 121.44 |
| 183 | 335.44 | 121.50 |
| 184 | 337.83 | 121.58 |
| 185 | 340.22 | 121.69 |
| 186 | 342.62 | 121.75 |
| 187 | 345.01 | 121.79 |
| 188 | 347.40 | 121.82 |
| 189 | 349.79 | 121.87 |
| 190 | 352.19 | 121.93 |
| 191 | 354.58 | 122.01 |
| 192 | 356.97 | 122.18 |
| 193 | 359.37 | 122.34 |
| 194 | 361.76 | 122.42 |
| 195 | 364.15 | 122.48 |
| 196 | 366.55 | 122.55 |
| 197 | 368.94 | 122.66 |
| 198 | 371.33 | 122.75 |
| 199 | 373.73 | 122.87 |
| 200 | 376.12 | 122.94 |
| 201 | 377.92 | 122.97 |
| 202 | 379.71 | 122.95 |
| 203 | 381.51 | 122.92 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 204 | 383.30 | 122.87 |
| 205 | 385.10 | 122.84 |
| 206 | 386.90 | 122.90 |
| 207 | 388.69 | 122.93 |
| 208 | 390.49 | 122.88 |
| 209 | 392.28 | 122.84 |
| 210 | 394.08 | 122.86 |
| 211 | 395.88 | 122.89 |
| 212 | 397.67 | 123.01 |
| 213 | 399.47 | 123.17 |
| 214 | 401.27 | 123.33 |
| 215 | 403.06 | 123.44 |
| 216 | 404.86 | 123.48 |
| 217 | 406.65 | 123.48 |
| 218 | 408.45 | 123.46 |
| 219 | 410.25 | 123.48 |
| 220 | 412.04 | 123.56 |
| 221 | 413.84 | 123.64 |
| 222 | 415.63 | 123.63 |
| 223 | 417.43 | 123.62 |
| 224 | 419.23 | 123.68 |
| 225 | 421.02 | 123.67 |
| 226 | 422.82 | 123.84 |
| 227 | 424.62 | 124.06 |
| 228 | 426.41 | 124.16 |
| 229 | 428.21 | 124.22 |
| 230 | 430.00 | 124.14 |
| 231 | 431.80 | 124.02 |
| 232 | 433.60 | 123.93 |

Comment:

## Weir Cross Section: X-0250W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 121.60 |
| 1 | 2.44 | 121.53 |
| 2 | 4.88 | 121.47 |
| 3 | 7.32 | 121.39 |
| 4 | 9.76 | 121.31 |
| 5 | 12.20 | 121.30 |
| 6 | 14.64 | 121.29 |
| 7 | 17.08 | 121.27 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 8 | 19.52 | 121.35 |
| 9 | 21.96 | 121.36 |
| 10 | 24.40 | 121.60 |
| 11 | 26.84 | 121.88 |
| 12 | 29.28 | 122.16 |
| 13 | 31.72 | 122.27 |
| 14 | 34.16 | 122.59 |
| 15 | 36.60 | 122.61 |
| 16 | 39.04 | 122.42 |
| 17 | 41.48 | 122.50 |
| 18 | 43.92 | 122.46 |
| 19 | 46.36 | 122.40 |
| 20 | 48.80 | 122.57 |
| 21 | 51.24 | 122.75 |
| 22 | 53.68 | 122.76 |
| 23 | 56.12 | 122.76 |
| 24 | 58.56 | 123.16 |
| 25 | 61.00 | 123.67 |
| 26 | 63.44 | 123.87 |
| 27 | 65.88 | 123.94 |
| 28 | 68.32 | 123.89 |
| 29 | 70.76 | 123.96 |
| 30 | 73.20 | 124.05 |
| 31 | 75.64 | 123.63 |
| 32 | 78.08 | 123.00 |
| 33 | 80.52 | 122.57 |
| 34 | 82.96 | 122.39 |
| 35 | 85.40 | 122.16 |
| 36 | 87.84 | 121.59 |
| 37 | 90.28 | 121.35 |
| 38 | 92.72 | 121.49 |
| 39 | 95.16 | 121.74 |
| 40 | 97.60 | 121.74 |
| 41 | 100.04 | 121.68 |
| 42 | 102.48 | 121.52 |
| 43 | 104.92 | 121.39 |
| 44 | 107.36 | 121.34 |
| 45 | 109.80 | 121.34 |
| 46 | 112.24 | 121.32 |
| 47 | 114.68 | 121.41 |
| 48 | 117.12 | 121.54 |
| 49 | 119.56 | 121.70 |
| 50 | 122.00 | 121.86 |
| 51 | 124.44 | 121.95 |
| 52 | 126.88 | 121.92 |
| 53 | 129.32 | 121.94 |
| 54 | 131.76 | 121.87 |
| 55 | 134.20 | 121.78 |
| 56 | 136.64 | 121.76 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 57 | 139.08 | 122.03 |
| 58 | 141.52 | 122.11 |
| 59 | 143.96 | 122.07 |
| 60 | 146.40 | 122.13 |
| 61 | 148.84 | 122.26 |
| 62 | 151.28 | 122.69 |
| 63 | 153.72 | 123.35 |
| 64 | 156.16 | 123.53 |
| 65 | 157.98 | 123.50 |
| 66 | 159.81 | 122.99 |
| 67 | 161.64 | 122.80 |
| 68 | 163.46 | 122.79 |
| 69 | 165.29 | 122.95 |
| 70 | 167.12 | 123.15 |
| 71 | 168.95 | 123.37 |
| 72 | 170.77 | 123.61 |
| 73 | 172.60 | 123.86 |
| 74 | 174.43 | 124.06 |
| 75 | 176.26 | 124.21 |
| 76 | 178.08 | 124.31 |
| 77 | 179.91 | 124.42 |
| 78 | 181.74 | 124.50 |
| 79 | 183.57 | 124.50 |
| 80 | 185.39 | 124.45 |
| 81 | 187.12 | 124.35 |
| 82 | 188.84 | 124.18 |
| 83 | 190.56 | 123.98 |
| 84 | 192.29 | 123.77 |
| 85 | 194.01 | 123.56 |
| 86 | 195.73 | 123.42 |
| 87 | 197.46 | 123.31 |
| 88 | 199.18 | 123.27 |
| 89 | 200.90 | 123.26 |
| 90 | 202.62 | 123.27 |
| 91 | 204.35 | 123.29 |
| 92 | 206.07 | 123.30 |
| 93 | 207.79 | 123.32 |
| 94 | 209.52 | 123.33 |
| 95 | 211.24 | 123.35 |
| 96 | 212.96 | 123.38 |
| 97 | 214.68 | 123.42 |
| 98 | 216.41 | 123.44 |
| 99 | 218.13 | 123.48 |
| 100 | 219.85 | 123.52 |
| 101 | 221.58 | 123.53 |
| 102 | 223.30 | 123.55 |
| 103 | 225.02 | 123.58 |
| 104 | 226.75 | 123.60 |
| 105 | 228.47 | 123.61 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 106 | 230.19 | 123.62 |
| 107 | 231.91 | 123.63 |
| 108 | 233.64 | 123.62 |
| 109 | 235.36 | 123.61 |
| 110 | 237.08 | 123.61 |
| 111 | 238.81 | 123.60 |
| 112 | 240.53 | 123.58 |
| 113 | 242.25 | 123.57 |
| 114 | 243.98 | 123.58 |
| 115 | 245.70 | 123.59 |
| 116 | 247.42 | 123.58 |
| 117 | 249.14 | 123.60 |
| 118 | 250.87 | 123.62 |
| 119 | 252.59 | 123.63 |
| 120 | 254.31 | 123.64 |
| 121 | 256.04 | 123.65 |
| 122 | 257.76 | 123.65 |
| 123 | 259.48 | 123.64 |
| 124 | 261.21 | 123.65 |
| 125 | 262.93 | 123.65 |
| 126 | 264.65 | 123.65 |
| 127 | 266.37 | 123.65 |
| 128 | 268.10 | 123.66 |
| 129 | 269.82 | 123.64 |
| 130 | 271.54 | 123.65 |
| 131 | 273.27 | 123.64 |
| 132 | 274.99 | 123.62 |
| 133 | 276.71 | 123.62 |
| 134 | 278.43 | 123.61 |
| 135 | 280.16 | 123.62 |
| 136 | 281.88 | 123.62 |
| 137 | 283.60 | 123.62 |
| 138 | 285.33 | 123.61 |
| 139 | 287.05 | 123.62 |
| 140 | 288.77 | 123.62 |
| 141 | 290.50 | 123.63 |
| 142 | 292.22 | 123.62 |
| 143 | 293.94 | 123.61 |
| 144 | 295.66 | 123.61 |
| 145 | 298.04 | 123.64 |
| 146 | 300.42 | 123.65 |
| 147 | 302.80 | 123.67 |
| 148 | 305.17 | 123.65 |
| 149 | 307.55 | 123.62 |
| 150 | 309.93 | 123.62 |
| 151 | 312.31 | 123.60 |
| 152 | 314.68 | 123.57 |
| 153 | 317.06 | 123.56 |
| 154 | 319.44 | 123.56 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 155 | 321.82 | 123.60 |
| 156 | 324.19 | 123.66 |
| 157 | 326.57 | 123.71 |
| 158 | 328.95 | 123.72 |
| 159 | 331.32 | 123.74 |
| 160 | 333.70 | 123.76 |
| 161 | 336.08 | 123.85 |
| 162 | 338.46 | 124.00 |
| 163 | 340.83 | 124.04 |
| 164 | 343.21 | 124.26 |
| 165 | 345.59 | 124.36 |
| 166 | 347.97 | 124.47 |
| 167 | 350.34 | 124.26 |
| 168 | 352.72 | 124.09 |
| 169 | 355.10 | 124.01 |
| 170 | 357.48 | 123.90 |
| 171 | 359.85 | 123.84 |
| 172 | 362.23 | 123.86 |
| 173 | 364.61 | 123.88 |
| 174 | 366.98 | 123.90 |
| 175 | 369.36 | 123.94 |
| 176 | 371.74 | 124.06 |
| 177 | 373.64 | 123.94 |
| 178 | 375.55 | 123.89 |
| 179 | 377.45 | 123.87 |
| 180 | 379.35 | 123.78 |
| 181 | 381.26 | 123.61 |
| 182 | 383.16 | 123.47 |
| 183 | 385.06 | 123.38 |
| 184 | 386.97 | 123.34 |
| 185 | 388.87 | 123.34 |
| 186 | 390.77 | 123.36 |
| 187 | 392.68 | 123.44 |
| 188 | 394.58 | 123.59 |
| 189 | 396.48 | 123.70 |
| 190 | 398.39 | 123.60 |
| 191 | 400.29 | 123.44 |
| 192 | 402.19 | 123.37 |
| 193 | 404.10 | 123.49 |
| 194 | 406.00 | 123.49 |
| 195 | 407.90 | 123.47 |
| 196 | 409.81 | 123.50 |
| 197 | 411.71 | 123.67 |
| 198 | 413.61 | 123.85 |
| 199 | 415.52 | 123.96 |
| 200 | 417.42 | 123.96 |
| 201 | 419.32 | 123.83 |
| 202 | 421.23 | 123.84 |
| 203 | 423.13 | 123.84 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 204 | 425.03 | 123.85 |
| 205 | 426.94 | 123.79 |
| 206 | 428.84 | 123.72 |
| 207 | 430.74 | 123.64 |
| 208 | 432.65 | 123.56 |
| 209 | 435.11 | 123.52 |
| 210 | 437.57 | 123.70 |
| 211 | 440.03 | 123.76 |
| 212 | 442.50 | 123.84 |
| 213 | 444.96 | 123.98 |
| 214 | 447.42 | 123.75 |
| 215 | 449.88 | 123.52 |
| 216 | 452.34 | 123.29 |
| 217 | 454.81 | 123.06 |
| 218 | 457.27 | 122.87 |
| 219 | 459.73 | 122.71 |
| 220 | 462.19 | 122.63 |
| 221 | 464.66 | 122.72 |
| 222 | 467.12 | 122.83 |
| 223 | 469.58 | 122.96 |
| 224 | 472.04 | 123.11 |
| 225 | 474.50 | 123.13 |
| 226 | 476.97 | 122.79 |
| 227 | 479.43 | 122.42 |
| 228 | 481.89 | 122.62 |
| 229 | 484.35 | 123.50 |
| 230 | 486.81 | 124.43 |
| 231 | 489.28 | 124.90 |
| 232 | 491.74 | 124.51 |
| 233 | 494.20 | 124.13 |
| 234 | 496.66 | 124.31 |
| 235 | 499.13 | 124.60 |
| 236 | 501.59 | 124.86 |
| 237 | 504.05 | 125.06 |
| 238 | 506.51 | 125.15 |
| 239 | 508.97 | 125.22 |
| 240 | 511.44 | 125.38 |
| 241 | 511.54 | 125.38 |

Comment:

## Weir Cross Section: X-0260W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 125.38 |
| 1 | 1.45 | 125.34 |
| 2 | 2.91 | 125.22 |
| 3 | 4.36 | 124.82 |
| 4 | 5.81 | 124.23 |
| 5 | 7.26 | 123.61 |
| 6 | 8.72 | 123.08 |
| 7 | 10.17 | 123.08 |
| 8 | 11.62 | 123.11 |
| 9 | 13.08 | 123.19 |
| 10 | 14.53 | 123.24 |
| 11 | 15.98 | 123.26 |
| 12 | 17.43 | 123.30 |
| 13 | 18.89 | 123.36 |
| 14 | 20.34 | 123.43 |
| 15 | 21.79 | 123.65 |
| 16 | 23.25 | 124.02 |
| 17 | 24.98 | 124.39 |
| 18 | 26.72 | 124.63 |
| 19 | 28.45 | 124.70 |
| 20 | 30.19 | 124.67 |
| 21 | 31.92 | 124.76 |
| 22 | 33.66 | 124.97 |
| 23 | 35.39 | 125.14 |
| 24 | 37.13 | 125.21 |
| 25 | 38.86 | 125.19 |
| 26 | 40.60 | 125.08 |
| 27 | 42.33 | 124.97 |
| 28 | 44.07 | 124.91 |
| 29 | 45.80 | 125.06 |
| 30 | 47.54 | 125.20 |
| 31 | 49.27 | 125.37 |
| 32 | 51.01 | 125.60 |
| 33 | 52.74 | 125.83 |
| 34 | 54.48 | 125.99 |
| 35 | 56.21 | 126.06 |
| 36 | 57.95 | 126.00 |
| 37 | 59.68 | 125.94 |
| 38 | 61.42 | 125.88 |
| 39 | 63.15 | 125.85 |
| 40 | 64.89 | 125.77 |
| 41 | 66.62 | 125.73 |
| 42 | 68.36 | 125.85 |
| 43 | 70.09 | 126.13 |
| 44 | 71.83 | 126.39 |
| 45 | 73.56 | 126.58 |
| 46 | 75.30 | 126.65 |
| 47 | 77.03 | 126.57 |
| 48 | 78.77 | 126.36 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 49 | 80.96 | 126.33 |
| 50 | 83.14 | 126.12 |
| 51 | 85.33 | 125.78 |
| 52 | 87.52 | 125.25 |
| 53 | 89.71 | 124.65 |
| 54 | 91.90 | 124.25 |
| 55 | 94.09 | 124.18 |
| 56 | 96.28 | 124.03 |
| 57 | 98.47 | 124.03 |
| 58 | 100.66 | 124.32 |
| 59 | 102.85 | 124.61 |
| 60 | 105.04 | 124.85 |
| 61 | 107.23 | 125.01 |
| 62 | 109.42 | 125.03 |
| 63 | 111.61 | 125.00 |
| 64 | 113.80 | 124.92 |
| 65 | 116.24 | 124.80 |
| 66 | 118.68 | 124.67 |
| 67 | 121.12 | 124.59 |
| 68 | 123.55 | 124.63 |
| 69 | 125.99 | 124.87 |
| 70 | 128.43 | 124.59 |
| 71 | 130.87 | 124.49 |
| 72 | 133.31 | 124.39 |
| 73 | 135.75 | 124.01 |
| 74 | 138.19 | 123.67 |
| 75 | 140.63 | 123.62 |
| 76 | 143.07 | 123.64 |
| 77 | 145.51 | 123.65 |
| 78 | 147.95 | 123.65 |
| 79 | 150.39 | 123.91 |
| 80 | 152.83 | 124.20 |
| 81 | 154.91 | 123.72 |
| 82 | 156.98 | 123.35 |
| 83 | 159.06 | 122.95 |
| 84 | 161.14 | 122.64 |
| 85 | 163.21 | 122.48 |
| 86 | 165.29 | 122.41 |
| 87 | 167.37 | 122.04 |
| 88 | 169.44 | 121.67 |
| 89 | 171.52 | 121.28 |
| 90 | 173.60 | 121.03 |
| 91 | 175.67 | 121.00 |
| 92 | 177.75 | 121.01 |
| 93 | 179.83 | 121.04 |
| 94 | 181.91 | 121.16 |
| 95 | 183.98 | 121.32 |
| 96 | 186.06 | 121.39 |
| 97 | 188.14 | 121.26 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 98 | 190.21 | 121.13 |
| 99 | 192.29 | 121.00 |
| 100 | 194.37 | 120.88 |
| 101 | 196.44 | 120.79 |
| 102 | 198.52 | 120.76 |
| 103 | 200.60 | 120.54 |
| 104 | 202.67 | 120.30 |
| 105 | 204.75 | 120.00 |
| 106 | 206.83 | 119.97 |
| 107 | 208.90 | 120.48 |
| 108 | 210.98 | 120.98 |
| 109 | 213.06 | 121.29 |
| 110 | 215.13 | 121.57 |
| 111 | 217.21 | 121.92 |
| 112 | 219.29 | 121.98 |
| 113 | 220.73 | 121.76 |
| 114 | 222.17 | 121.57 |
| 115 | 223.61 | 121.26 |
| 116 | 225.05 | 120.99 |
| 117 | 226.48 | 120.85 |
| 118 | 227.92 | 120.76 |
| 119 | 229.36 | 120.75 |
| 120 | 230.80 | 120.73 |
| 121 | 232.24 | 120.69 |
| 122 | 233.68 | 120.77 |
| 123 | 235.12 | 120.91 |
| 124 | 236.56 | 121.35 |
| 125 | 238.00 | 121.80 |
| 126 | 239.44 | 122.04 |
| 127 | 240.88 | 121.91 |
| 128 | 242.32 | 121.74 |
| 129 | 244.72 | 121.37 |
| 130 | 247.12 | 121.10 |
| 131 | 249.52 | 120.97 |
| 132 | 251.92 | 120.67 |
| 133 | 254.32 | 120.38 |
| 134 | 256.72 | 120.08 |
| 135 | 259.12 | 119.82 |
| 136 | 261.53 | 119.61 |
| 137 | 263.93 | 119.29 |
| 138 | 266.33 | 118.95 |
| 139 | 268.73 | 118.57 |
| 140 | 271.13 | 118.30 |
| 141 | 273.53 | 118.19 |
| 142 | 275.93 | 118.86 |
| 143 | 278.33 | 119.33 |
| 144 | 280.73 | 119.22 |
| 145 | 282.41 | 119.12 |
| 146 | 284.09 | 119.12 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 147 | 285.76 | 119.23 |
| 148 | 287.44 | 119.30 |
| 149 | 289.11 | 119.34 |
| 150 | 290.79 | 119.43 |
| 151 | 292.47 | 119.51 |
| 152 | 294.14 | 119.61 |
| 153 | 295.82 | 119.85 |
| 154 | 297.49 | 120.01 |
| 155 | 299.17 | 120.09 |
| 156 | 300.85 | 120.21 |
| 157 | 302.52 | 120.35 |
| 158 | 304.20 | 120.52 |
| 159 | 305.87 | 120.52 |
| 160 | 307.55 | 120.51 |
| 161 | 309.58 | 120.72 |
| 162 | 311.62 | 121.03 |
| 163 | 313.65 | 121.21 |
| 164 | 315.69 | 121.14 |
| 165 | 317.72 | 120.99 |
| 166 | 319.75 | 120.99 |
| 167 | 321.79 | 121.05 |
| 168 | 323.82 | 121.23 |
| 169 | 326.08 | 121.05 |
| 170 | 328.33 | 120.80 |
| 171 | 330.59 | 120.48 |
| 172 | 332.85 | 120.20 |
| 173 | 335.10 | 119.99 |
| 174 | 337.36 | 119.86 |
| 175 | 339.61 | 119.86 |
| 176 | 341.87 | 120.02 |
| 177 | 344.13 | 120.20 |
| 178 | 346.38 | 120.38 |
| 179 | 348.64 | 120.60 |
| 180 | 350.89 | 120.77 |
| 181 | 353.15 | 120.79 |
| 182 | 355.41 | 120.80 |
| 183 | 357.66 | 120.82 |
| 184 | 359.92 | 120.99 |
| 185 | 362.18 | 121.29 |
| 186 | 364.43 | 121.53 |
| 187 | 366.69 | 121.65 |
| 188 | 368.94 | 121.77 |
| 189 | 371.20 | 122.00 |
| 190 | 373.46 | 122.26 |
| 191 | 375.71 | 122.43 |
| 192 | 377.97 | 122.43 |
| 193 | 380.22 | 122.44 |
| 194 | 382.48 | 122.50 |
| 195 | 384.74 | 122.68 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 196 | 386.99 | 122.94 |
| 197 | 389.25 | 123.09 |
| 198 | 391.51 | 123.05 |
| 199 | 393.76 | 122.91 |
| 200 | 396.02 | 122.86 |
| 201 | 398.50 | 122.86 |
| 202 | 400.99 | 122.81 |
| 203 | 403.47 | 123.12 |
| 204 | 405.96 | 123.52 |
| 205 | 408.44 | 123.77 |
| 206 | 410.93 | 123.92 |
| 207 | 413.41 | 124.06 |
| 208 | 415.90 | 124.22 |
| 209 | 418.33 | 124.21 |
| 210 | 420.77 | 124.10 |
| 211 | 423.21 | 123.95 |
| 212 | 425.64 | 123.75 |
| 213 | 428.08 | 123.61 |
| 214 | 430.52 | 123.57 |
| 215 | 432.95 | 123.54 |
| 216 | 435.39 | 123.88 |
| 217 | 437.82 | 124.08 |
| 218 | 440.26 | 124.02 |
| 219 | 442.70 | 124.07 |
| 220 | 445.13 | 124.20 |
| 221 | 447.57 | 124.22 |
| 222 | 450.00 | 124.08 |
| 223 | 452.44 | 123.93 |
| 224 | 454.88 | 123.95 |

Comment:

## Weir Cross Section: X-0270W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 123.95 |
| 1 | 1.30 | 123.96 |
| 2 | 2.61 | 123.94 |
| 3 | 3.91 | 123.94 |
| 4 | 5.21 | 123.99 |
| 5 | 6.52 | 124.07 |
| 6 | 7.82 | 124.19 |
| 7 | 9.12 | 124.30 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 8 | 10.42 | 124.39 |
| 9 | 11.73 | 124.46 |
| 10 | 13.03 | 124.48 |
| 11 | 14.33 | 124.42 |
| 12 | 15.64 | 124.26 |
| 13 | 16.94 | 124.11 |
| 14 | 18.24 | 123.97 |
| 15 | 19.55 | 123.86 |
| 16 | 20.85 | 123.78 |
| 17 | 22.15 | 123.76 |
| 18 | 23.45 | 123.77 |
| 19 | 24.76 | 123.80 |
| 20 | 26.06 | 123.83 |
| 21 | 27.36 | 123.88 |
| 22 | 28.67 | 123.92 |
| 23 | 29.97 | 123.88 |
| 24 | 31.27 | 123.83 |
| 25 | 32.58 | 123.65 |
| 26 | 33.88 | 123.49 |
| 27 | 35.18 | 123.45 |
| 28 | 36.48 | 123.43 |
| 29 | 37.79 | 123.46 |
| 30 | 39.09 | 123.47 |
| 31 | 40.39 | 123.46 |
| 32 | 41.70 | 123.44 |
| 33 | 43.00 | 123.42 |
| 34 | 44.30 | 123.45 |
| 35 | 45.61 | 123.55 |
| 36 | 46.91 | 123.57 |
| 37 | 48.21 | 123.54 |
| 38 | 49.51 | 123.45 |
| 39 | 50.82 | 123.32 |
| 40 | 52.12 | 123.29 |
| 41 | 53.42 | 123.29 |
| 42 | 54.73 | 123.20 |
| 43 | 56.03 | 123.10 |
| 44 | 57.33 | 123.03 |
| 45 | 58.64 | 122.97 |
| 46 | 59.94 | 123.01 |
| 47 | 61.24 | 123.05 |
| 48 | 62.54 | 123.14 |
| 49 | 63.85 | 123.22 |
| 50 | 65.15 | 123.21 |
| 51 | 66.45 | 123.18 |
| 52 | 67.76 | 123.11 |
| 53 | 69.06 | 123.00 |
| 54 | 70.36 | 122.83 |
| 55 | 71.67 | 122.73 |
| 56 | 72.97 | 122.77 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 57 | 74.27 | 122.83 |
| 58 | 75.57 | 122.91 |
| 59 | 76.88 | 122.97 |
| 60 | 78.18 | 122.99 |
| 61 | 79.48 | 123.01 |
| 62 | 80.79 | 123.03 |
| 63 | 82.09 | 123.05 |
| 64 | 83.39 | 123.07 |
| 65 | 84.70 | 123.09 |
| 66 | 86.00 | 123.11 |
| 67 | 87.30 | 123.10 |
| 68 | 88.60 | 123.09 |
| 69 | 89.91 | 123.07 |
| 70 | 91.21 | 123.04 |
| 71 | 92.51 | 122.98 |
| 72 | 93.82 | 122.93 |
| 73 | 95.12 | 122.92 |
| 74 | 96.42 | 122.90 |
| 75 | 97.73 | 122.89 |
| 76 | 99.03 | 122.85 |
| 77 | 100.33 | 122.74 |
| 78 | 101.64 | 122.66 |
| 79 | 102.94 | 122.64 |
| 80 | 104.24 | 122.62 |
| 81 | 105.54 | 122.58 |
| 82 | 106.85 | 122.56 |
| 83 | 108.15 | 122.56 |
| 84 | 109.45 | 122.60 |
| 85 | 110.76 | 122.69 |
| 86 | 112.06 | 122.77 |
| 87 | 113.36 | 122.86 |
| 88 | 114.67 | 122.80 |
| 89 | 115.97 | 122.69 |
| 90 | 117.27 | 122.64 |
| 91 | 118.57 | 122.62 |
| 92 | 119.88 | 122.60 |
| 93 | 121.18 | 122.57 |
| 94 | 122.48 | 122.53 |
| 95 | 123.79 | 122.49 |
| 96 | 125.09 | 122.44 |
| 97 | 126.39 | 122.40 |
| 98 | 127.70 | 122.47 |
| 99 | 129.00 | 122.55 |
| 100 | 130.30 | 122.62 |
| 101 | 131.60 | 122.70 |
| 102 | 132.91 | 122.78 |
| 103 | 134.21 | 122.82 |
| 104 | 135.51 | 122.79 |
| 105 | 136.82 | 122.73 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 106 | 138.12 | 122.62 |
| 107 | 139.42 | 122.66 |
| 108 | 140.73 | 122.83 |
| 109 | 142.03 | 122.98 |
| 110 | 143.33 | 123.10 |
| 111 | 144.63 | 123.18 |
| 112 | 145.94 | 123.25 |
| 113 | 147.24 | 123.16 |
| 114 | 148.54 | 123.04 |
| 115 | 149.85 | 122.95 |
| 116 | 151.15 | 122.87 |
| 117 | 152.45 | 122.88 |
| 118 | 153.76 | 122.88 |
| 119 | 155.06 | 122.88 |
| 120 | 156.36 | 122.86 |
| 121 | 157.66 | 122.71 |
| 122 | 158.97 | 122.57 |
| 123 | 160.27 | 122.47 |
| 124 | 161.57 | 122.38 |
| 125 | 162.88 | 122.32 |
| 126 | 164.18 | 122.28 |
| 127 | 165.48 | 122.28 |
| 128 | 166.79 | 122.28 |
| 129 | 168.73 | 122.31 |
| 130 | 170.67 | 122.48 |
| 131 | 172.61 | 122.59 |
| 132 | 174.55 | 122.64 |
| 133 | 176.50 | 122.57 |
| 134 | 178.44 | 122.40 |
| 135 | 180.38 | 122.29 |
| 136 | 182.32 | 122.29 |
| 137 | 184.26 | 122.28 |
| 138 | 186.21 | 122.16 |
| 139 | 188.15 | 121.98 |
| 140 | 190.09 | 121.98 |
| 141 | 192.03 | 121.88 |
| 142 | 193.97 | 121.83 |
| 143 | 195.92 | 121.76 |
| 144 | 197.86 | 121.73 |
| 145 | 199.80 | 121.70 |
| 146 | 201.74 | 121.72 |
| 147 | 203.68 | 121.78 |
| 148 | 205.63 | 121.93 |
| 149 | 207.57 | 121.95 |
| 150 | 209.51 | 121.81 |
| 151 | 211.45 | 121.57 |
| 152 | 213.39 | 121.48 |
| 153 | 215.34 | 121.55 |
| 154 | 217.28 | 121.72 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 155 | 219.22 | 121.81 |
| 156 | 221.16 | 121.78 |
| 157 | 223.10 | 121.64 |
| 158 | 225.05 | 121.49 |
| 159 | 226.99 | 121.39 |
| 160 | 228.93 | 121.23 |
| 161 | 231.41 | 121.13 |
| 162 | 233.89 | 121.00 |
| 163 | 236.37 | 120.97 |
| 164 | 238.85 | 121.12 |
| 165 | 241.33 | 121.04 |
| 166 | 243.81 | 120.78 |
| 167 | 246.29 | 120.52 |
| 168 | 248.77 | 120.18 |
| 169 | 251.25 | 119.94 |
| 170 | 253.73 | 119.94 |
| 171 | 256.21 | 120.14 |
| 172 | 258.68 | 120.22 |
| 173 | 261.16 | 119.99 |
| 174 | 263.64 | 119.91 |
| 175 | 266.12 | 119.86 |
| 176 | 268.60 | 119.90 |
| 177 | 271.08 | 119.99 |
| 178 | 273.56 | 120.19 |
| 179 | 276.04 | 120.25 |
| 180 | 278.52 | 119.78 |
| 181 | 281.00 | 119.55 |
| 182 | 283.48 | 119.40 |
| 183 | 285.96 | 119.32 |
| 184 | 288.44 | 119.30 |
| 185 | 290.92 | 119.25 |
| 186 | 293.40 | 119.22 |
| 187 | 295.88 | 119.20 |
| 188 | 298.36 | 119.25 |
| 189 | 300.84 | 119.26 |
| 190 | 303.32 | 119.39 |
| 191 | 305.80 | 119.41 |
| 192 | 308.28 | 119.46 |
| 193 | 310.75 | 119.60 |
| 194 | 313.23 | 119.80 |
| 195 | 315.71 | 119.96 |
| 196 | 318.19 | 120.03 |
| 197 | 320.67 | 119.98 |
| 198 | 323.15 | 119.91 |
| 199 | 325.63 | 119.76 |
| 200 | 328.11 | 119.85 |
| 201 | 330.59 | 119.87 |
| 202 | 333.07 | 119.77 |
| 203 | 335.55 | 119.68 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 204 | 338.03 | 119.88 |
| 205 | 340.51 | 120.22 |
| 206 | 342.99 | 120.40 |
| 207 | 345.47 | 120.22 |
| 208 | 347.95 | 120.16 |
| 209 | 350.43 | 120.14 |
| 210 | 352.91 | 119.90 |
| 211 | 355.39 | 119.85 |
| 212 | 357.87 | 119.84 |
| 213 | 360.35 | 119.86 |
| 214 | 362.83 | 120.00 |
| 215 | 365.30 | 120.10 |
| 216 | 367.78 | 120.09 |
| 217 | 370.26 | 120.06 |
| 218 | 372.74 | 120.16 |
| 219 | 375.22 | 120.31 |
| 220 | 377.70 | 120.44 |
| 221 | 380.18 | 120.64 |
| 222 | 382.66 | 120.82 |
| 223 | 385.14 | 120.95 |
| 224 | 387.62 | 121.01 |
| 225 | 389.09 | 120.86 |
| 226 | 390.56 | 120.64 |
| 227 | 392.03 | 120.39 |
| 228 | 393.51 | 120.28 |
| 229 | 394.98 | 120.28 |
| 230 | 396.45 | 120.33 |
| 231 | 397.92 | 120.37 |
| 232 | 399.39 | 120.48 |
| 233 | 400.86 | 120.54 |
| 234 | 402.33 | 120.55 |
| 235 | 403.81 | 120.59 |
| 236 | 405.28 | 120.61 |
| 237 | 406.75 | 120.59 |
| 238 | 408.22 | 120.53 |
| 239 | 409.69 | 120.48 |
| 240 | 411.16 | 120.45 |
| 241 | 412.63 | 120.42 |
| 242 | 414.10 | 120.43 |
| 243 | 415.58 | 120.44 |
| 244 | 417.05 | 120.36 |
| 245 | 418.52 | 120.26 |
| 246 | 419.99 | 120.22 |
| 247 | 421.46 | 120.18 |
| 248 | 422.93 | 120.15 |
| 249 | 424.40 | 120.15 |
| 250 | 425.88 | 120.18 |
| 251 | 427.35 | 120.21 |
| 252 | 428.82 | 120.22 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 253 | 430.29 | 120.24 |
| 254 | 431.76 | 120.26 |
| 255 | 433.23 | 120.28 |
| 256 | 434.70 | 120.30 |
| 257 | 436.17 | 120.32 |
| 258 | 437.65 | 120.35 |
| 259 | 439.12 | 120.37 |
| 260 | 440.59 | 120.33 |
| 261 | 442.06 | 120.32 |
| 262 | 443.53 | 120.35 |
| 263 | 445.00 | 120.39 |
| 264 | 446.47 | 120.43 |
| 265 | 447.94 | 120.51 |
| 266 | 449.42 | 120.59 |
| 267 | 450.89 | 120.69 |
| 268 | 452.36 | 120.78 |
| 269 | 453.83 | 120.89 |
| 270 | 455.30 | 121.05 |
| 271 | 456.77 | 121.26 |
| 272 | 458.24 | 121.41 |
| 273 | 459.72 | 121.58 |
| 274 | 461.19 | 121.81 |
| 275 | 462.66 | 121.98 |
| 276 | 464.13 | 122.03 |
| 277 | 465.60 | 122.10 |
| 278 | 467.07 | 122.23 |
| 279 | 468.54 | 122.46 |
| 280 | 470.01 | 122.69 |
| 281 | 471.49 | 122.95 |
| 282 | 472.96 | 123.16 |
| 283 | 474.43 | 123.28 |
| 284 | 475.90 | 123.39 |
| 285 | 477.37 | 123.51 |
| 286 | 478.84 | 123.51 |
| 287 | 480.31 | 123.47 |
| 288 | 481.79 | 123.45 |
| 289 | 483.44 | 123.33 |
| 290 | 485.10 | 123.00 |
| 291 | 486.75 | 122.76 |
| 292 | 488.41 | 122.70 |
| 293 | 490.07 | 122.67 |
| 294 | 491.72 | 122.66 |
| 295 | 493.38 | 122.54 |
| 296 | 495.03 | 122.42 |
| 297 | 496.69 | 122.43 |
| 298 | 498.35 | 122.53 |
| 299 | 500.00 | 122.72 |
| 300 | 501.66 | 123.03 |
| 301 | 503.31 | 123.22 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 302 | 504.97 | 123.29 |
| 303 | 506.63 | 123.44 |
| 304 | 508.28 | 123.38 |
| 305 | 509.68 | 123.01 |
| 306 | 511.07 | 122.65 |
| 307 | 512.46 | 122.38 |
| 308 | 513.86 | 122.21 |
| 309 | 515.25 | 122.17 |
| 310 | 516.65 | 122.20 |
| 311 | 518.04 | 122.28 |
| 312 | 519.43 | 122.35 |
| 313 | 520.83 | 122.42 |
| 314 | 522.22 | 122.48 |
| 315 | 523.62 | 122.54 |
| 316 | 525.01 | 122.60 |
| 317 | 526.40 | 122.63 |
| 318 | 527.80 | 122.62 |
| 319 | 529.19 | 122.69 |
| 320 | 530.59 | 122.81 |
| 321 | 533.07 | 122.96 |
| 322 | 535.55 | 122.68 |
| 323 | 538.03 | 122.02 |
| 324 | 540.51 | 121.46 |
| 325 | 543.00 | 121.29 |
| 326 | 545.48 | 121.27 |
| 327 | 547.96 | 121.32 |
| 328 | 550.44 | 121.34 |
| 329 | 552.92 | 121.33 |
| 330 | 555.41 | 121.42 |
| 331 | 557.89 | 121.63 |
| 332 | 560.37 | 122.08 |
| 333 | 562.85 | 122.16 |
| 334 | 565.33 | 122.16 |
| 335 | 567.82 | 122.19 |
| 336 | 570.30 | 122.20 |
| 337 | 572.78 | 122.06 |
| 338 | 575.26 | 121.80 |
| 339 | 577.74 | 121.68 |
| 340 | 580.22 | 121.61 |
| 341 | 582.71 | 121.62 |
| 342 | 585.19 | 121.62 |
| 343 | 587.67 | 121.80 |
| 344 | 590.15 | 121.72 |
| 345 | 592.63 | 121.71 |
| 346 | 595.12 | 121.86 |
| 347 | 597.60 | 121.85 |
| 348 | 600.08 | 121.67 |
| 349 | 602.56 | 121.64 |
| 350 | 605.04 | 121.83 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 351 | 607.53 | 122.04 |
| 352 | 610.01 | 122.06 |
| 353 | 612.49 | 122.10 |
| 354 | 614.97 | 122.12 |
| 355 | 617.45 | 122.02 |
| 356 | 619.94 | 121.94 |
| 357 | 622.42 | 122.04 |
| 358 | 624.90 | 122.14 |
| 359 | 627.38 | 122.20 |
| 360 | 629.86 | 122.34 |
| 361 | 632.35 | 122.47 |
| 362 | 634.83 | 122.51 |
| 363 | 637.31 | 122.39 |
| 364 | 639.79 | 122.12 |
| 365 | 642.27 | 121.77 |
| 366 | 644.76 | 121.68 |
| 367 | 647.24 | 121.64 |
| 368 | 649.72 | 121.67 |
| 369 | 652.20 | 121.78 |
| 370 | 654.68 | 121.80 |
| 371 | 657.16 | 121.77 |
| 372 | 659.65 | 121.79 |
| 373 | 662.13 | 121.91 |
| 374 | 664.61 | 122.12 |
| 375 | 667.09 | 122.28 |
| 376 | 669.57 | 122.28 |
| 377 | 672.06 | 122.31 |
| 378 | 674.54 | 122.26 |
| 379 | 677.02 | 122.27 |
| 380 | 679.50 | 122.40 |
| 381 | 681.98 | 122.46 |
| 382 | 684.47 | 122.48 |
| 383 | 686.95 | 122.63 |
| 384 | 689.43 | 122.70 |
| 385 | 690.93 | 122.54 |
| 386 | 692.42 | 122.47 |
| 387 | 693.92 | 122.54 |
| 388 | 695.42 | 122.49 |
| 389 | 696.91 | 122.45 |
| 390 | 698.41 | 122.33 |
| 391 | 699.90 | 122.26 |
| 392 | 701.40 | 122.33 |
| 393 | 702.90 | 122.46 |
| 394 | 704.39 | 122.53 |
| 395 | 705.89 | 122.62 |
| 396 | 707.39 | 122.56 |
| 397 | 708.88 | 122.47 |
| 398 | 710.38 | 122.49 |
| 399 | 711.87 | 122.49 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 400 | 713.37 | 122.49 |
| 401 | 714.87 | 122.48 |
| 402 | 716.36 | 122.52 |
| 403 | 717.86 | 122.56 |
| 404 | 719.36 | 122.70 |
| 405 | 720.85 | 122.86 |
| 406 | 722.35 | 122.92 |
| 407 | 723.84 | 122.96 |
| 408 | 725.34 | 122.92 |
| 409 | 726.84 | 122.87 |
| 410 | 728.33 | 122.88 |
| 411 | 729.83 | 122.92 |
| 412 | 731.33 | 123.09 |
| 413 | 732.82 | 123.28 |
| 414 | 734.32 | 123.46 |
| 415 | 735.81 | 123.59 |
| 416 | 737.31 | 123.70 |
| 417 | 739.09 | 123.79 |
| 418 | 740.87 | 123.83 |
| 419 | 742.66 | 123.91 |
| 420 | 744.44 | 123.98 |
| 421 | 746.22 | 124.04 |
| 422 | 748.00 | 124.05 |
| 423 | 749.79 | 124.05 |
| 424 | 751.57 | 124.08 |
| 425 | 753.35 | 124.19 |
| 426 | 755.13 | 124.23 |
| 427 | 756.91 | 124.19 |
| 428 | 758.70 | 124.05 |
| 429 | 760.48 | 124.15 |
| 430 | 762.26 | 124.15 |
| 431 | 764.04 | 124.09 |
| 432 | 765.83 | 124.00 |
| 433 | 767.61 | 123.99 |
| 434 | 769.39 | 124.06 |
| 435 | 771.17 | 124.20 |
| 436 | 772.95 | 124.44 |
| 437 | 774.74 | 124.60 |
| 438 | 776.52 | 124.68 |
| 439 | 778.30 | 124.66 |
| 440 | 780.08 | 124.58 |
| 441 | 781.87 | 124.45 |
| 442 | 783.65 | 124.28 |
| 443 | 785.43 | 124.24 |
| 444 | 787.21 | 124.23 |
| 445 | 788.99 | 124.26 |
| 446 | 790.78 | 124.33 |
| 447 | 792.56 | 124.42 |
| 448 | 794.34 | 124.51 |

Comment:

## Weir Cross Section: X-0280W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 85.03 |
| 1 | 2.07 | 84.84 |
| 2 | 4.13 | 84.60 |
| 3 | 6.20 | 84.33 |
| 4 | 8.27 | 84.14 |
| 5 | 10.34 | 84.07 |
| 6 | 12.40 | 83.98 |
| 7 | 14.47 | 83.65 |
| 8 | 16.54 | 83.31 |
| 9 | 18.60 | 82.97 |
| 10 | 20.67 | 82.63 |
| 11 | 22.74 | 82.39 |
| 12 | 24.81 | 82.21 |
| 13 | 26.87 | 81.99 |
| 14 | 28.94 | 81.70 |
| 15 | 31.01 | 81.20 |
| 16 | 33.08 | 80.76 |
| 17 | 35.14 | 80.50 |
| 18 | 37.21 | 80.16 |
| 19 | 39.28 | 79.89 |
| 20 | 41.34 | 79.59 |
| 21 | 43.41 | 79.16 |
| 22 | 45.48 | 78.68 |
| 23 | 47.55 | 78.19 |
| 24 | 49.61 | 77.70 |
| 25 | 51.68 | 77.16 |
| 26 | 53.75 | 76.72 |
| 27 | 55.81 | 76.46 |
| 28 | 57.88 | 76.21 |
| 29 | 59.95 | 75.98 |
| 30 | 62.02 | 75.83 |
| 31 | 64.08 | 75.72 |
| 32 | 66.15 | 75.61 |
| 33 | 68.22 | 75.55 |
| 34 | 70.29 | 75.44 |
| 35 | 72.35 | 75.37 |
| 36 | 74.42 | 75.38 |
| 37 | 76.49 | 75.49 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 38 | 78.55 | 75.60 |
| 39 | 80.62 | 75.48 |
| 40 | 82.69 | 75.30 |
| 41 | 84.76 | 75.15 |
| 42 | 86.82 | 74.95 |
| 43 | 88.89 | 74.83 |
| 44 | 90.96 | 74.69 |
| 45 | 93.02 | 74.47 |
| 46 | 95.09 | 74.21 |
| 47 | 97.16 | 74.01 |
| 48 | 99.23 | 73.99 |
| 49 | 101.29 | 73.98 |
| 50 | 103.36 | 73.87 |
| 51 | 105.43 | 73.64 |
| 52 | 107.50 | 73.40 |
| 53 | 109.56 | 73.37 |
| 54 | 111.63 | 73.32 |
| 55 | 113.70 | 72.97 |
| 56 | 115.76 | 73.11 |
| 57 | 117.83 | 73.37 |
| 58 | 119.90 | 73.55 |
| 59 | 121.97 | 73.50 |
| 60 | 124.03 | 73.43 |
| 61 | 126.10 | 73.38 |
| 62 | 128.17 | 73.45 |
| 63 | 130.23 | 73.56 |
| 64 | 132.30 | 73.54 |
| 65 | 133.64 | 73.50 |
| 66 | 134.99 | 73.44 |
| 67 | 136.33 | 73.52 |
| 68 | 137.67 | 73.61 |
| 69 | 139.01 | 73.66 |
| 70 | 140.35 | 73.65 |
| 71 | 141.70 | 73.56 |
| 72 | 143.04 | 73.46 |
| 73 | 144.38 | 73.36 |
| 74 | 145.72 | 73.24 |
| 75 | 147.07 | 73.22 |
| 76 | 148.41 | 73.18 |
| 77 | 149.75 | 73.23 |
| 78 | 151.09 | 73.31 |
| 79 | 152.43 | 73.38 |
| 80 | 153.78 | 73.44 |
| 81 | 155.12 | 73.56 |
| 82 | 156.46 | 73.69 |
| 83 | 157.80 | 73.84 |
| 84 | 159.14 | 73.98 |
| 85 | 160.49 | 74.09 |
| 86 | 161.83 | 74.25 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 87 | 163.17 | 74.23 |
| 88 | 164.51 | 74.19 |
| 89 | 165.85 | 74.24 |
| 90 | 167.20 | 74.32 |
| 91 | 168.54 | 74.41 |
| 92 | 169.88 | 74.41 |
| 93 | 171.22 | 74.23 |
| 94 | 172.57 | 73.90 |
| 95 | 173.91 | 73.62 |
| 96 | 175.25 | 73.45 |
| 97 | 176.59 | 73.38 |
| 98 | 177.93 | 73.36 |
| 99 | 179.28 | 73.43 |
| 100 | 180.62 | 73.53 |
| 101 | 181.96 | 73.62 |
| 102 | 183.30 | 73.71 |
| 103 | 184.64 | 73.86 |
| 104 | 185.99 | 74.06 |
| 105 | 187.33 | 74.22 |
| 106 | 188.67 | 74.34 |
| 107 | 190.01 | 74.43 |
| 108 | 191.35 | 74.46 |
| 109 | 192.70 | 74.36 |
| 110 | 194.04 | 74.12 |
| 111 | 195.38 | 73.96 |
| 112 | 196.72 | 74.03 |
| 113 | 198.07 | 73.93 |
| 114 | 199.41 | 73.77 |
| 115 | 200.75 | 73.73 |
| 116 | 202.09 | 73.84 |
| 117 | 203.43 | 74.04 |
| 118 | 204.78 | 74.17 |
| 119 | 206.12 | 74.19 |
| 120 | 207.46 | 74.04 |
| 121 | 208.80 | 73.89 |
| 122 | 210.14 | 73.83 |
| 123 | 211.49 | 73.87 |
| 124 | 212.83 | 73.90 |
| 125 | 214.17 | 73.90 |
| 126 | 215.51 | 73.86 |
| 127 | 216.85 | 73.83 |
| 128 | 218.20 | 73.92 |
| 129 | 219.72 | 74.13 |
| 130 | 221.24 | 74.42 |
| 131 | 222.75 | 74.73 |
| 132 | 224.27 | 75.02 |
| 133 | 225.79 | 75.28 |
| 134 | 227.31 | 75.55 |
| 135 | 228.83 | 75.75 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 136 | 230.35 | 75.88 |
| 137 | 231.87 | 75.91 |
| 138 | 233.39 | 75.81 |
| 139 | 234.91 | 75.61 |
| 140 | 236.43 | 74.97 |
| 141 | 237.95 | 74.23 |
| 142 | 239.47 | 73.73 |
| 143 | 240.99 | 72.99 |
| 144 | 242.51 | 72.10 |
| 145 | 244.00 | 71.52 |
| 146 | 245.49 | 71.01 |
| 147 | 246.98 | 70.53 |
| 148 | 248.47 | 69.93 |
| 149 | 249.96 | 69.35 |
| 150 | 251.45 | 68.63 |
| 151 | 252.94 | 67.77 |
| 152 | 254.42 | 66.93 |
| 153 | 255.91 | 66.13 |
| 154 | 257.40 | 65.47 |
| 155 | 258.89 | 64.95 |
| 156 | 260.38 | 64.38 |
| 157 | 261.87 | 64.48 |
| 158 | 263.36 | 64.89 |
| 159 | 264.85 | 65.46 |
| 160 | 266.34 | 65.92 |
| 161 | 267.83 | 66.14 |
| 162 | 269.32 | 66.46 |
| 163 | 270.81 | 66.86 |
| 164 | 272.30 | 67.00 |
| 165 | 273.79 | 66.97 |
| 166 | 275.28 | 66.46 |
| 167 | 276.77 | 65.87 |
| 168 | 278.26 | 64.46 |
| 169 | 279.75 | 63.29 |
| 170 | 281.24 | 62.28 |
| 171 | 282.73 | 61.90 |
| 172 | 284.22 | 61.74 |
| 173 | 285.71 | 61.43 |
| 174 | 287.20 | 61.14 |
| 175 | 288.69 | 60.70 |
| 176 | 290.18 | 60.24 |
| 177 | 291.67 | 59.79 |
| 178 | 293.16 | 59.52 |
| 179 | 294.65 | 59.25 |
| 180 | 296.14 | 59.33 |
| 181 | 297.63 | 59.34 |
| 182 | 299.12 | 59.06 |
| 183 | 300.61 | 58.79 |
| 184 | 302.10 | 58.52 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 185 | 303.59 | 58.33 |
| 186 | 305.08 | 58.07 |
| 187 | 306.57 | 58.01 |
| 188 | 308.06 | 58.02 |
| 189 | 309.55 | 58.10 |
| 190 | 311.04 | 58.14 |
| 191 | 312.53 | 58.13 |
| 192 | 314.02 | 58.21 |
| 193 | 315.51 | 58.26 |
| 194 | 317.00 | 58.23 |
| 195 | 318.49 | 58.21 |
| 196 | 319.98 | 58.22 |
| 197 | 321.47 | 58.16 |
| 198 | 322.96 | 58.04 |
| 199 | 324.45 | 57.90 |
| 200 | 325.94 | 57.76 |
| 201 | 327.43 | 57.60 |
| 202 | 328.92 | 57.46 |
| 203 | 330.41 | 57.33 |
| 204 | 331.90 | 57.30 |
| 205 | 333.39 | 57.31 |
| 206 | 334.88 | 57.28 |
| 207 | 336.37 | 57.25 |
| 208 | 337.86 | 57.22 |
| 209 | 339.81 | 57.12 |
| 210 | 341.76 | 57.00 |
| 211 | 343.72 | 56.81 |
| 212 | 345.67 | 56.62 |
| 213 | 347.62 | 56.43 |
| 214 | 349.57 | 56.24 |
| 215 | 351.53 | 56.05 |
| 216 | 353.48 | 55.85 |
| 217 | 355.43 | 55.66 |
| 218 | 357.39 | 55.47 |
| 219 | 359.34 | 55.27 |
| 220 | 361.29 | 55.08 |
| 221 | 363.25 | 54.89 |
| 222 | 365.20 | 54.74 |
| 223 | 367.15 | 54.63 |
| 224 | 369.10 | 54.45 |
| 225 | 371.06 | 54.51 |
| 226 | 373.01 | 54.56 |
| 227 | 374.96 | 54.55 |
| 228 | 376.92 | 54.55 |
| 229 | 378.87 | 54.55 |
| 230 | 380.82 | 54.56 |
| 231 | 382.77 | 54.53 |
| 232 | 384.73 | 54.38 |
| 233 | 386.68 | 54.24 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 234 | 388.63 | 54.16 |
| 235 | 390.59 | 54.11 |
| 236 | 392.54 | 54.07 |
| 237 | 394.49 | 54.02 |
| 238 | 396.45 | 53.95 |
| 239 | 398.40 | 53.99 |
| 240 | 400.35 | 54.13 |
| 241 | 402.30 | 54.12 |
| 242 | 404.26 | 53.97 |
| 243 | 406.21 | 53.81 |
| 244 | 408.16 | 53.69 |
| 245 | 410.12 | 53.57 |
| 246 | 412.07 | 53.42 |
| 247 | 414.02 | 53.23 |
| 248 | 415.97 | 53.02 |
| 249 | 417.93 | 53.08 |
| 250 | 419.88 | 52.98 |
| 251 | 421.83 | 52.92 |
| 252 | 423.79 | 52.85 |
| 253 | 425.74 | 52.71 |
| 254 | 427.69 | 52.80 |
| 255 | 429.64 | 52.70 |
| 256 | 431.60 | 52.52 |
| 257 | 433.55 | 52.50 |
| 258 | 435.50 | 52.62 |
| 259 | 437.46 | 53.21 |
| 260 | 439.41 | 54.06 |
| 261 | 441.36 | 54.95 |
| 262 | 443.32 | 54.85 |
| 263 | 445.27 | 55.07 |
| 264 | 447.22 | 55.50 |
| 265 | 449.17 | 56.00 |
| 266 | 451.13 | 56.22 |
| 267 | 453.08 | 56.17 |
| 268 | 455.03 | 56.17 |
| 269 | 456.99 | 56.24 |
| 270 | 458.94 | 56.00 |
| 271 | 460.89 | 56.22 |
| 272 | 462.84 | 56.59 |
| 273 | 464.20 | 56.88 |
| 274 | 465.55 | 57.40 |
| 275 | 466.90 | 58.00 |
| 276 | 468.26 | 58.12 |
| 277 | 469.61 | 58.32 |
| 278 | 470.96 | 58.45 |
| 279 | 472.31 | 58.47 |
| 280 | 473.67 | 58.29 |
| 281 | 475.02 | 57.96 |
| 282 | 476.37 | 57.36 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 283 | 477.73 | 56.63 |
| 284 | 479.08 | 55.76 |
| 285 | 480.43 | 55.25 |
| 286 | 481.78 | 54.98 |
| 287 | 483.14 | 54.99 |
| 288 | 484.49 | 55.14 |
| 289 | 485.84 | 55.29 |
| 290 | 487.20 | 55.45 |
| 291 | 488.55 | 55.66 |
| 292 | 489.90 | 55.89 |
| 293 | 491.25 | 56.19 |
| 294 | 492.61 | 56.43 |
| 295 | 493.96 | 56.47 |
| 296 | 495.31 | 56.69 |
| 297 | 496.67 | 57.19 |
| 298 | 498.02 | 57.64 |
| 299 | 499.37 | 58.06 |
| 300 | 500.72 | 58.20 |
| 301 | 502.08 | 58.16 |
| 302 | 503.43 | 58.01 |
| 303 | 504.78 | 57.82 |
| 304 | 506.14 | 57.59 |
| 305 | 508.23 | 57.19 |
| 306 | 510.32 | 56.98 |
| 307 | 512.41 | 56.72 |
| 308 | 514.51 | 56.50 |
| 309 | 516.60 | 56.32 |
| 310 | 518.69 | 56.03 |
| 311 | 520.79 | 55.57 |
| 312 | 522.88 | 55.05 |
| 313 | 524.97 | 55.02 |
| 314 | 527.06 | 55.09 |
| 315 | 529.16 | 54.86 |
| 316 | 531.25 | 54.60 |
| 317 | 533.34 | 54.53 |
| 318 | 535.44 | 54.68 |
| 319 | 537.53 | 54.79 |
| 320 | 539.62 | 54.85 |
| 321 | 541.57 | 54.94 |
| 322 | 543.52 | 55.01 |
| 323 | 545.46 | 55.11 |
| 324 | 547.41 | 54.99 |
| 325 | 549.36 | 54.46 |
| 326 | 551.30 | 54.35 |
| 327 | 553.25 | 54.24 |
| 328 | 555.20 | 54.12 |
| 329 | 557.14 | 54.06 |
| 330 | 559.09 | 54.14 |
| 331 | 561.04 | 54.48 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 332 | 562.99 | 54.87 |
| 333 | 564.93 | 55.27 |
| 334 | 566.88 | 55.66 |
| 335 | 568.83 | 56.00 |
| 336 | 570.77 | 56.27 |
| 337 | 572.15 | 56.12 |
| 338 | 573.53 | 55.74 |
| 339 | 574.92 | 55.26 |
| 340 | 576.30 | 54.82 |
| 341 | 577.68 | 54.38 |
| 342 | 579.06 | 53.94 |
| 343 | 580.44 | 53.48 |
| 344 | 581.82 | 53.05 |
| 345 | 583.20 | 52.62 |
| 346 | 584.58 | 52.18 |
| 347 | 585.96 | 51.90 |
| 348 | 587.34 | 51.93 |
| 349 | 588.72 | 51.98 |
| 350 | 590.10 | 52.22 |
| 351 | 591.48 | 52.47 |
| 352 | 592.86 | 52.77 |
| 353 | 594.24 | 53.11 |
| 354 | 595.62 | 53.43 |
| 355 | 597.00 | 53.76 |
| 356 | 598.39 | 54.11 |
| 357 | 599.77 | 54.40 |
| 358 | 601.15 | 54.74 |
| 359 | 602.53 | 55.05 |
| 360 | 603.91 | 55.36 |
| 361 | 605.29 | 55.71 |
| 362 | 606.67 | 55.96 |
| 363 | 608.05 | 56.29 |
| 364 | 609.43 | 56.53 |
| 365 | 610.81 | 56.76 |
| 366 | 612.19 | 57.00 |
| 367 | 613.57 | 57.18 |
| 368 | 614.95 | 57.15 |
| 369 | 617.34 | 56.60 |
| 370 | 619.73 | 55.46 |
| 371 | 622.12 | 54.50 |
| 372 | 624.51 | 53.85 |
| 373 | 626.89 | 53.42 |
| 374 | 629.28 | 53.06 |
| 375 | 631.67 | 52.01 |
| 376 | 634.06 | 50.88 |
| 377 | 636.45 | 49.76 |
| 378 | 638.84 | 48.93 |
| 379 | 641.22 | 49.02 |
| 380 | 643.61 | 49.20 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 381 | 646.00 | 49.33 |
| 382 | 648.39 | 49.57 |
| 383 | 650.78 | 49.89 |
| 384 | 653.17 | 50.20 |
| 385 | 655.41 | 50.49 |
| 386 | 657.66 | 50.69 |
| 387 | 659.91 | 50.63 |
| 388 | 662.15 | 50.37 |
| 389 | 664.40 | 49.97 |
| 390 | 666.65 | 49.73 |
| 391 | 668.89 | 49.71 |
| 392 | 671.14 | 49.61 |
| 393 | 673.39 | 49.59 |
| 394 | 675.64 | 49.48 |
| 395 | 677.88 | 49.37 |
| 396 | 680.13 | 49.26 |
| 397 | 682.38 | 49.15 |
| 398 | 684.62 | 49.03 |
| 399 | 686.87 | 48.92 |
| 400 | 689.12 | 48.81 |
| 401 | 691.36 | 48.64 |
| 402 | 693.60 | 48.58 |
| 403 | 695.84 | 49.03 |
| 404 | 698.08 | 49.42 |
| 405 | 700.32 | 49.60 |
| 406 | 702.56 | 49.63 |
| 407 | 704.81 | 49.63 |
| 408 | 707.05 | 49.63 |
| 409 | 709.29 | 49.59 |
| 410 | 711.53 | 49.46 |
| 411 | 713.77 | 49.47 |
| 412 | 716.01 | 49.70 |
| 413 | 718.25 | 49.82 |
| 414 | 720.49 | 49.87 |
| 415 | 722.74 | 50.17 |
| 416 | 724.98 | 50.50 |
| 417 | 726.43 | 50.49 |
| 418 | 727.88 | 50.45 |
| 419 | 729.34 | 50.39 |
| 420 | 730.79 | 50.34 |
| 421 | 732.25 | 50.34 |
| 422 | 733.70 | 50.43 |
| 423 | 735.15 | 50.41 |
| 424 | 736.61 | 50.33 |
| 425 | 738.06 | 50.17 |
| 426 | 739.51 | 50.01 |
| 427 | 740.97 | 49.90 |
| 428 | 742.42 | 49.85 |
| 429 | 743.88 | 49.87 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 430 | 745.33 | 49.87 |
| 431 | 746.78 | 49.85 |
| 432 | 748.24 | 49.93 |
| 433 | 749.69 | 49.97 |
| 434 | 751.14 | 49.89 |
| 435 | 752.60 | 49.85 |
| 436 | 754.05 | 49.82 |
| 437 | 755.51 | 49.78 |
| 438 | 756.96 | 49.75 |
| 439 | 758.41 | 49.75 |
| 440 | 759.87 | 49.75 |
| 441 | 761.32 | 49.78 |
| 442 | 762.77 | 49.91 |
| 443 | 764.23 | 50.10 |
| 444 | 765.68 | 50.65 |
| 445 | 767.14 | 51.15 |
| 446 | 768.59 | 51.43 |
| 447 | 770.04 | 51.92 |
| 448 | 771.50 | 52.62 |
| 449 | 772.91 | 51.67 |
| 450 | 774.32 | 50.93 |
| 451 | 775.73 | 50.49 |
| 452 | 777.15 | 50.21 |
| 453 | 778.56 | 50.06 |
| 454 | 779.97 | 49.97 |
| 455 | 781.39 | 49.96 |
| 456 | 782.80 | 49.98 |
| 457 | 784.21 | 50.02 |
| 458 | 785.62 | 50.04 |
| 459 | 787.04 | 50.06 |
| 460 | 788.45 | 50.06 |
| 461 | 789.86 | 50.08 |
| 462 | 791.27 | 50.12 |
| 463 | 792.69 | 50.12 |
| 464 | 794.10 | 50.13 |
| 465 | 795.51 | 50.12 |
| 466 | 796.92 | 50.07 |
| 467 | 798.34 | 50.00 |
| 468 | 799.75 | 49.93 |
| 469 | 801.16 | 49.86 |
| 470 | 802.57 | 49.81 |
| 471 | 803.99 | 49.80 |
| 472 | 805.40 | 49.78 |
| 473 | 806.81 | 49.74 |
| 474 | 808.23 | 49.69 |
| 475 | 809.64 | 49.67 |
| 476 | 811.05 | 49.67 |
| 477 | 812.46 | 49.67 |
| 478 | 813.88 | 49.63 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 479 | 815.29 | 49.62 |
| 480 | 816.70 | 49.61 |
| 481 | 818.11 | 49.55 |
| 482 | 819.53 | 49.49 |
| 483 | 820.94 | 49.45 |
| 484 | 822.35 | 49.44 |
| 485 | 823.76 | 49.46 |
| 486 | 825.18 | 49.46 |
| 487 | 826.59 | 49.46 |
| 488 | 828.00 | 49.43 |
| 489 | 829.41 | 49.34 |
| 490 | 830.83 | 49.30 |
| 491 | 832.24 | 49.32 |
| 492 | 833.65 | 49.37 |
| 493 | 835.07 | 49.43 |
| 494 | 836.48 | 49.43 |
| 495 | 837.89 | 49.42 |
| 496 | 839.30 | 49.54 |
| 497 | 840.72 | 49.69 |
| 498 | 842.13 | 49.75 |
| 499 | 843.54 | 49.77 |
| 500 | 844.95 | 49.78 |
| 501 | 846.37 | 49.89 |
| 502 | 847.78 | 50.08 |
| 503 | 849.19 | 50.29 |
| 504 | 850.60 | 50.44 |
| 505 | 852.02 | 50.48 |
| 506 | 853.43 | 50.49 |
| 507 | 854.84 | 50.46 |
| 508 | 856.26 | 50.42 |
| 509 | 857.67 | 50.36 |
| 510 | 859.08 | 50.28 |
| 511 | 860.49 | 50.22 |
| 512 | 861.91 | 50.04 |

Comment:

## Weir Cross Section: X-0290W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 50.04 |
| 1 | 2.20 | 49.92 |
| 2 | 4.41 | 49.71 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 3 | 6.61 | 49.57 |
| 4 | 8.81 | 49.44 |
| 5 | 11.02 | 49.35 |
| 6 | 13.22 | 49.32 |
| 7 | 15.43 | 49.41 |
| 8 | 17.63 | 49.51 |
| 9 | 19.83 | 49.53 |
| 10 | 22.04 | 49.41 |
| 11 | 24.24 | 49.43 |
| 12 | 26.44 | 49.56 |
| 13 | 28.65 | 49.67 |
| 14 | 30.85 | 49.69 |
| 15 | 33.06 | 49.63 |
| 16 | 35.26 | 49.57 |
| 17 | 37.20 | 49.47 |
| 18 | 39.14 | 49.37 |
| 19 | 41.08 | 49.26 |
| 20 | 43.02 | 49.17 |
| 21 | 44.96 | 49.10 |
| 22 | 46.91 | 48.94 |
| 23 | 48.85 | 48.72 |
| 24 | 50.79 | 48.66 |
| 25 | 52.73 | 48.66 |
| 26 | 54.67 | 48.72 |
| 27 | 56.61 | 48.75 |
| 28 | 58.55 | 48.63 |
| 29 | 60.49 | 48.67 |
| 30 | 62.43 | 48.81 |
| 31 | 64.37 | 48.78 |
| 32 | 66.32 | 48.80 |
| 33 | 67.79 | 48.84 |
| 34 | 69.26 | 48.81 |
| 35 | 70.73 | 48.78 |
| 36 | 72.21 | 48.76 |
| 37 | 73.68 | 48.74 |
| 38 | 75.15 | 48.71 |
| 39 | 76.62 | 48.68 |
| 40 | 78.10 | 48.65 |
| 41 | 79.57 | 48.56 |
| 42 | 81.04 | 48.45 |
| 43 | 82.52 | 48.36 |
| 44 | 83.99 | 48.31 |
| 45 | 85.46 | 48.34 |
| 46 | 86.93 | 48.51 |
| 47 | 88.41 | 48.78 |
| 48 | 89.88 | 48.85 |
| 49 | 91.20 | 48.84 |
| 50 | 92.51 | 48.80 |
| 51 | 93.83 | 48.75 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 52 | 95.15 | 48.68 |
| 53 | 96.46 | 48.60 |
| 54 | 97.78 | 48.47 |
| 55 | 99.10 | 48.35 |
| 56 | 100.42 | 48.29 |
| 57 | 101.73 | 48.26 |
| 58 | 103.05 | 48.29 |
| 59 | 104.37 | 48.31 |
| 60 | 105.68 | 48.31 |
| 61 | 107.00 | 48.33 |
| 62 | 108.32 | 48.36 |
| 63 | 109.63 | 48.38 |
| 64 | 110.95 | 48.39 |
| 65 | 112.27 | 48.47 |
| 66 | 113.59 | 48.56 |
| 67 | 114.90 | 48.48 |
| 68 | 116.22 | 48.38 |
| 69 | 117.54 | 48.35 |
| 70 | 118.85 | 48.32 |
| 71 | 120.17 | 48.36 |
| 72 | 121.49 | 48.41 |
| 73 | 122.81 | 48.43 |
| 74 | 124.12 | 48.45 |
| 75 | 125.44 | 48.44 |
| 76 | 126.76 | 48.44 |
| 77 | 128.07 | 48.43 |
| 78 | 129.39 | 48.39 |
| 79 | 130.71 | 48.31 |
| 80 | 132.03 | 48.28 |
| 81 | 134.24 | 48.29 |
| 82 | 136.45 | 48.33 |
| 83 | 138.67 | 48.26 |
| 84 | 140.88 | 48.17 |
| 85 | 143.09 | 48.29 |
| 86 | 145.31 | 48.32 |
| 87 | 147.52 | 48.31 |
| 88 | 149.73 | 48.28 |
| 89 | 151.95 | 48.22 |
| 90 | 154.16 | 48.20 |
| 91 | 156.37 | 48.15 |
| 92 | 158.59 | 48.02 |
| 93 | 160.80 | 48.39 |
| 94 | 163.01 | 48.89 |
| 95 | 165.23 | 49.10 |
| 96 | 167.44 | 49.06 |
| 97 | 169.19 | 48.92 |
| 98 | 170.93 | 48.50 |
| 99 | 172.68 | 47.99 |
| 100 | 174.42 | 47.76 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 101 | 176.17 | 48.27 |
| 102 | 177.91 | 48.86 |
| 103 | 179.66 | 49.44 |
| 104 | 181.40 | 49.89 |
| 105 | 183.15 | 50.20 |
| 106 | 184.90 | 50.50 |
| 107 | 186.64 | 50.74 |
| 108 | 188.39 | 51.00 |
| 109 | 190.13 | 51.23 |
| 110 | 191.88 | 51.41 |
| 111 | 193.62 | 51.61 |
| 112 | 195.37 | 51.88 |
| 113 | 197.76 | 51.95 |
| 114 | 200.15 | 51.59 |
| 115 | 202.53 | 51.06 |
| 116 | 204.92 | 50.66 |
| 117 | 207.31 | 51.46 |
| 118 | 209.70 | 53.12 |
| 119 | 212.09 | 54.21 |
| 120 | 214.48 | 54.81 |
| 121 | 216.86 | 53.95 |
| 122 | 219.25 | 52.84 |
| 123 | 221.64 | 52.96 |
| 124 | 224.03 | 52.75 |
| 125 | 226.42 | 52.73 |
| 126 | 228.81 | 52.89 |
| 127 | 231.19 | 52.97 |
| 128 | 233.58 | 53.05 |
| 129 | 235.45 | 53.21 |
| 130 | 237.32 | 53.09 |
| 131 | 239.18 | 53.07 |
| 132 | 241.05 | 53.08 |
| 133 | 242.92 | 52.63 |
| 134 | 244.79 | 51.91 |
| 135 | 246.65 | 51.18 |
| 136 | 248.52 | 50.49 |
| 137 | 250.39 | 49.91 |
| 138 | 252.26 | 49.19 |
| 139 | 254.12 | 48.75 |
| 140 | 255.99 | 48.67 |
| 141 | 257.86 | 48.60 |
| 142 | 259.73 | 48.47 |
| 143 | 261.59 | 48.34 |
| 144 | 263.46 | 48.36 |

Comment:

## Weir Cross Section: X-0300W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 50.04 |
| 1 | 1.76 | 49.80 |
| 2 | 3.53 | 49.50 |
| 3 | 5.29 | 49.34 |
| 4 | 7.06 | 49.27 |
| 5 | 8.82 | 49.32 |
| 6 | 10.59 | 49.35 |
| 7 | 12.35 | 49.36 |
| 8 | 14.11 | 49.30 |
| 9 | 15.88 | 49.25 |
| 10 | 17.64 | 49.20 |
| 11 | 19.41 | 49.18 |
| 12 | 21.17 | 49.11 |
| 13 | 22.94 | 49.03 |
| 14 | 24.70 | 48.92 |
| 15 | 26.46 | 48.81 |
| 16 | 28.23 | 48.77 |
| 17 | 29.99 | 48.77 |
| 18 | 31.76 | 48.90 |
| 19 | 33.52 | 48.97 |
| 20 | 35.29 | 48.97 |
| 21 | 37.05 | 48.82 |
| 22 | 38.81 | 48.61 |
| 23 | 40.58 | 48.44 |
| 24 | 42.34 | 48.32 |
| 25 | 44.11 | 48.26 |
| 26 | 45.87 | 48.19 |
| 27 | 47.64 | 48.12 |
| 28 | 49.40 | 48.03 |
| 29 | 51.16 | 47.93 |
| 30 | 52.93 | 47.84 |
| 31 | 54.69 | 47.75 |
| 32 | 56.46 | 47.71 |
| 33 | 58.61 | 47.72 |
| 34 | 60.76 | 47.68 |
| 35 | 62.91 | 47.60 |
| 36 | 65.06 | 47.52 |
| 37 | 67.21 | 47.44 |
| 38 | 69.36 | 47.39 |
| 39 | 71.51 | 47.35 |
| 40 | 73.66 | 47.32 |
| 41 | 75.81 | 47.36 |
| 42 | 77.96 | 47.43 |
| 43 | 80.11 | 47.56 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 44 | 82.26 | 47.73 |
| 45 | 84.41 | 47.93 |
| 46 | 86.56 | 48.14 |
| 47 | 88.71 | 48.34 |
| 48 | 90.86 | 48.54 |
| 49 | 93.01 | 48.74 |
| 50 | 95.16 | 48.95 |
| 51 | 97.31 | 49.15 |
| 52 | 99.47 | 49.36 |
| 53 | 101.62 | 49.56 |
| 54 | 103.77 | 49.76 |
| 55 | 105.92 | 50.00 |
| 56 | 108.07 | 50.49 |
| 57 | 110.22 | 51.02 |
| 58 | 112.37 | 51.54 |
| 59 | 114.52 | 51.88 |
| 60 | 116.67 | 52.10 |
| 61 | 118.82 | 52.26 |
| 62 | 120.97 | 52.33 |
| 63 | 123.12 | 52.51 |
| 64 | 125.27 | 52.55 |
| 65 | 127.17 | 52.60 |
| 66 | 129.07 | 52.56 |
| 67 | 130.97 | 52.39 |
| 68 | 132.87 | 51.92 |
| 69 | 134.77 | 51.24 |
| 70 | 136.67 | 50.56 |
| 71 | 138.57 | 50.01 |
| 72 | 140.47 | 49.99 |
| 73 | 142.37 | 49.90 |
| 74 | 144.28 | 50.02 |
| 75 | 146.18 | 50.32 |
| 76 | 148.08 | 50.53 |
| 77 | 149.98 | 50.73 |
| 78 | 151.88 | 50.66 |
| 79 | 153.78 | 50.36 |
| 80 | 155.68 | 50.18 |
| 81 | 157.58 | 50.11 |
| 82 | 159.48 | 49.98 |
| 83 | 161.38 | 49.75 |
| 84 | 163.28 | 49.76 |
| 85 | 165.18 | 49.72 |
| 86 | 167.08 | 49.66 |
| 87 | 168.98 | 49.65 |
| 88 | 170.88 | 49.82 |
| 89 | 172.78 | 50.02 |
| 90 | 174.68 | 50.31 |
| 91 | 176.58 | 50.68 |
| 92 | 178.48 | 50.88 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 93 | 180.38 | 50.94 |
| 94 | 182.29 | 51.02 |
| 95 | 184.19 | 51.15 |
| 96 | 186.09 | 50.78 |
| 97 | 187.99 | 50.60 |
| 98 | 189.89 | 50.47 |
| 99 | 191.79 | 50.39 |
| 100 | 193.69 | 50.34 |
| 101 | 195.59 | 50.35 |
| 102 | 197.49 | 50.54 |
| 103 | 199.39 | 51.07 |
| 104 | 201.29 | 51.56 |
| 105 | 203.19 | 51.53 |
| 106 | 205.09 | 51.36 |
| 107 | 206.99 | 51.14 |
| 108 | 208.89 | 50.88 |
| 109 | 210.79 | 50.76 |
| 110 | 212.69 | 50.63 |
| 111 | 214.59 | 50.44 |
| 112 | 216.49 | 50.48 |
| 113 | 218.40 | 50.84 |
| 114 | 220.30 | 51.42 |
| 115 | 222.20 | 51.98 |
| 116 | 224.10 | 51.92 |
| 117 | 226.00 | 51.87 |
| 118 | 227.90 | 51.93 |
| 119 | 229.80 | 52.14 |
| 120 | 231.70 | 52.48 |
| 121 | 233.60 | 52.76 |
| 122 | 235.50 | 52.99 |
| 123 | 237.40 | 53.15 |
| 124 | 239.30 | 53.10 |
| 125 | 241.20 | 53.07 |
| 126 | 243.10 | 53.05 |
| 127 | 245.00 | 53.05 |
| 128 | 246.90 | 53.07 |
| 129 | 248.62 | 53.29 |
| 130 | 250.35 | 53.42 |
| 131 | 252.07 | 53.77 |
| 132 | 253.79 | 53.81 |
| 133 | 255.51 | 53.92 |
| 134 | 257.23 | 53.93 |
| 135 | 258.95 | 54.06 |
| 136 | 260.68 | 54.10 |
| 137 | 262.40 | 53.79 |
| 138 | 264.12 | 53.65 |
| 139 | 265.84 | 53.28 |
| 140 | 267.56 | 52.39 |
| 141 | 269.28 | 51.12 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 142 | 271.00 | 50.22 |
| 143 | 272.73 | 49.78 |
| 144 | 274.45 | 49.66 |
| 145 | 276.17 | 49.88 |
| 146 | 277.89 | 50.09 |
| 147 | 279.61 | 50.22 |
| 148 | 281.33 | 50.28 |
| 149 | 283.06 | 50.39 |
| 150 | 284.78 | 50.35 |
| 151 | 286.50 | 50.42 |
| 152 | 288.22 | 50.44 |
| 153 | 289.94 | 50.51 |
| 154 | 291.66 | 50.57 |
| 155 | 293.39 | 50.51 |
| 156 | 295.11 | 50.38 |
| 157 | 296.83 | 50.34 |
| 158 | 298.55 | 50.28 |
| 159 | 300.27 | 50.28 |
| 160 | 301.99 | 50.46 |
| 161 | 303.86 | 50.58 |
| 162 | 305.72 | 50.69 |
| 163 | 307.58 | 50.46 |
| 164 | 309.44 | 50.34 |
| 165 | 311.31 | 50.44 |
| 166 | 313.17 | 50.60 |
| 167 | 315.03 | 50.44 |
| 168 | 316.90 | 50.06 |
| 169 | 318.76 | 49.72 |
| 170 | 320.62 | 49.59 |
| 171 | 322.48 | 49.54 |
| 172 | 324.35 | 49.64 |
| 173 | 326.21 | 49.68 |
| 174 | 328.07 | 49.63 |
| 175 | 329.94 | 49.50 |
| 176 | 331.80 | 49.44 |
| 177 | 333.98 | 49.32 |
| 178 | 336.17 | 49.14 |
| 179 | 338.36 | 49.33 |
| 180 | 340.54 | 49.75 |
| 181 | 342.73 | 49.98 |
| 182 | 344.92 | 50.18 |
| 183 | 347.10 | 50.13 |
| 184 | 349.29 | 50.08 |
| 185 | 350.65 | 50.06 |
| 186 | 352.01 | 50.23 |
| 187 | 353.37 | 50.38 |
| 188 | 354.74 | 50.23 |
| 189 | 356.10 | 50.13 |
| 190 | 357.46 | 49.96 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 191 | 358.82 | 49.81 |
| 192 | 360.18 | 50.23 |
| 193 | 362.13 | 50.71 |
| 194 | 364.07 | 50.96 |
| 195 | 366.02 | 50.97 |
| 196 | 367.96 | 50.92 |
| 197 | 369.37 | 50.83 |
| 198 | 370.79 | 50.64 |
| 199 | 372.20 | 50.45 |
| 200 | 373.61 | 50.43 |
| 201 | 375.03 | 50.41 |
| 202 | 376.44 | 50.33 |
| 203 | 377.85 | 50.18 |
| 204 | 379.27 | 49.69 |
| 205 | 381.13 | 48.94 |
| 206 | 382.99 | 48.14 |
| 207 | 384.85 | 47.85 |
| 208 | 386.72 | 47.98 |
| 209 | 388.58 | 48.36 |
| 210 | 390.44 | 48.93 |
| 211 | 392.31 | 49.20 |
| 212 | 394.17 | 49.10 |
| 213 | 395.46 | 48.98 |
| 214 | 396.75 | 48.86 |
| 215 | 398.04 | 48.74 |
| 216 | 399.33 | 48.71 |
| 217 | 400.63 | 48.74 |
| 218 | 401.92 | 48.82 |
| 219 | 403.21 | 48.92 |
| 220 | 404.50 | 48.93 |
| 221 | 405.79 | 48.84 |
| 222 | 407.08 | 48.75 |
| 223 | 408.37 | 48.54 |
| 224 | 409.66 | 48.36 |
| 225 | 410.95 | 48.22 |
| 226 | 412.24 | 48.07 |
| 227 | 413.54 | 48.00 |
| 228 | 414.83 | 47.91 |
| 229 | 416.12 | 48.04 |
| 230 | 417.41 | 48.31 |
| 231 | 418.70 | 48.64 |
| 232 | 419.99 | 48.92 |
| 233 | 421.28 | 49.10 |
| 234 | 422.57 | 49.13 |
| 235 | 423.86 | 49.16 |
| 236 | 425.15 | 49.17 |
| 237 | 426.45 | 49.19 |
| 238 | 427.74 | 49.17 |
| 239 | 429.03 | 49.14 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 240 | 430.32 | 49.14 |
| 241 | 431.61 | 49.13 |
| 242 | 432.90 | 49.12 |
| 243 | 434.19 | 49.14 |
| 244 | 435.48 | 49.16 |

Comment:

## Weir Cross Section: X-0320W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 49.16 |
| 1 | 2.06 | 49.12 |
| 2 | 4.12 | 49.04 |
| 3 | 6.18 | 48.93 |
| 4 | 8.24 | 48.79 |
| 5 | 10.30 | 48.70 |
| 6 | 12.36 | 48.64 |
| 7 | 14.42 | 48.58 |
| 8 | 16.49 | 48.58 |
| 9 | 18.55 | 48.58 |
| 10 | 20.61 | 48.79 |
| 11 | 22.67 | 49.35 |
| 12 | 24.73 | 50.04 |
| 13 | 26.79 | 50.64 |
| 14 | 28.85 | 50.80 |
| 15 | 30.91 | 50.63 |
| 16 | 32.97 | 50.27 |
| 17 | 34.34 | 49.87 |
| 18 | 35.70 | 49.51 |
| 19 | 37.07 | 49.20 |
| 20 | 38.43 | 48.92 |
| 21 | 39.80 | 48.56 |
| 22 | 41.17 | 48.30 |
| 23 | 42.53 | 48.13 |
| 24 | 43.90 | 47.97 |
| 25 | 45.26 | 47.87 |
| 26 | 46.63 | 47.78 |
| 27 | 48.00 | 47.65 |
| 28 | 49.36 | 47.52 |
| 29 | 50.73 | 47.54 |
| 30 | 52.09 | 47.64 |
| 31 | 53.46 | 47.95 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 32 | 54.83 | 48.16 |
| 33 | 56.27 | 48.05 |
| 34 | 57.71 | 47.92 |
| 35 | 59.15 | 47.54 |
| 36 | 60.59 | 47.31 |
| 37 | 62.03 | 47.17 |
| 38 | 63.47 | 47.19 |
| 39 | 64.91 | 47.33 |
| 40 | 66.35 | 47.47 |
| 41 | 67.79 | 47.57 |
| 42 | 69.23 | 47.74 |
| 43 | 70.67 | 47.88 |
| 44 | 72.11 | 47.97 |
| 45 | 73.55 | 48.08 |
| 46 | 74.99 | 48.13 |
| 47 | 76.43 | 48.18 |
| 48 | 77.87 | 48.18 |
| 49 | 79.78 | 47.91 |
| 50 | 81.68 | 47.63 |
| 51 | 83.59 | 47.45 |
| 52 | 85.49 | 47.47 |
| 53 | 87.40 | 47.53 |
| 54 | 89.31 | 47.53 |
| 55 | 91.21 | 47.49 |
| 56 | 93.12 | 47.45 |
| 57 | 94.66 | 47.41 |
| 58 | 96.21 | 47.37 |
| 59 | 97.75 | 47.33 |
| 60 | 99.30 | 47.29 |
| 61 | 100.84 | 47.21 |
| 62 | 102.39 | 47.17 |
| 63 | 103.93 | 47.25 |
| 64 | 105.48 | 47.27 |
| 65 | 107.02 | 47.28 |
| 66 | 108.56 | 47.29 |
| 67 | 110.11 | 47.30 |
| 68 | 111.65 | 47.31 |
| 69 | 113.20 | 47.31 |
| 70 | 114.74 | 47.31 |
| 71 | 116.29 | 47.28 |
| 72 | 117.83 | 47.24 |
| 73 | 119.38 | 47.21 |
| 74 | 120.92 | 47.17 |
| 75 | 122.46 | 47.14 |
| 76 | 124.01 | 47.05 |
| 77 | 125.55 | 46.90 |
| 78 | 127.10 | 46.76 |
| 79 | 128.64 | 46.63 |
| 80 | 130.19 | 47.78 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 81 | 131.73 | 49.00 |
| 82 | 133.28 | 50.69 |
| 83 | 134.82 | 51.60 |
| 84 | 136.36 | 51.72 |
| 85 | 137.91 | 51.72 |
| 86 | 139.45 | 51.65 |
| 87 | 141.00 | 51.64 |
| 88 | 142.54 | 51.57 |
| 89 | 144.72 | 51.64 |
| 90 | 146.90 | 51.51 |
| 91 | 149.07 | 51.06 |
| 92 | 151.25 | 51.06 |
| 93 | 153.43 | 51.32 |
| 94 | 155.61 | 51.55 |
| 95 | 157.78 | 51.47 |
| 96 | 159.96 | 51.09 |
| 97 | 162.14 | 50.86 |
| 98 | 164.31 | 50.57 |
| 99 | 166.49 | 50.67 |
| 100 | 168.67 | 50.76 |
| 101 | 170.85 | 50.94 |
| 102 | 173.02 | 51.17 |
| 103 | 175.20 | 51.33 |
| 104 | 177.38 | 51.22 |
| 105 | 179.56 | 50.73 |
| 106 | 181.73 | 50.56 |
| 107 | 183.91 | 50.50 |
| 108 | 186.09 | 50.44 |
| 109 | 188.26 | 50.37 |
| 110 | 190.44 | 50.15 |
| 111 | 192.62 | 49.73 |
| 112 | 194.80 | 49.46 |
| 113 | 196.97 | 49.62 |
| 114 | 199.15 | 49.59 |
| 115 | 201.33 | 49.65 |
| 116 | 203.51 | 49.80 |
| 117 | 205.68 | 50.14 |
| 118 | 207.86 | 50.39 |
| 119 | 210.04 | 50.29 |
| 120 | 212.21 | 50.36 |
| 121 | 214.39 | 50.34 |
| 122 | 216.56 | 50.28 |
| 123 | 218.73 | 50.16 |
| 124 | 220.90 | 49.75 |
| 125 | 223.07 | 49.11 |
| 126 | 225.24 | 49.06 |
| 127 | 227.41 | 49.63 |
| 128 | 229.58 | 50.27 |
| 129 | 231.75 | 50.39 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 130 | 233.92 | 50.58 |
| 131 | 236.09 | 50.75 |
| 132 | 238.26 | 50.94 |
| 133 | 240.43 | 51.05 |
| 134 | 242.60 | 51.01 |
| 135 | 244.77 | 51.04 |
| 136 | 246.94 | 51.38 |
| 137 | 248.43 | 51.71 |
| 138 | 249.92 | 51.62 |
| 139 | 251.41 | 51.60 |
| 140 | 252.89 | 51.72 |
| 141 | 254.38 | 51.88 |
| 142 | 255.87 | 52.07 |
| 143 | 257.36 | 52.13 |
| 144 | 258.84 | 52.08 |
| 145 | 260.33 | 51.37 |
| 146 | 261.82 | 50.62 |
| 147 | 263.31 | 49.95 |
| 148 | 264.80 | 49.64 |
| 149 | 266.28 | 49.43 |
| 150 | 267.77 | 49.20 |
| 151 | 269.26 | 48.95 |
| 152 | 270.75 | 48.68 |
| 153 | 272.23 | 48.74 |
| 154 | 273.72 | 48.92 |
| 155 | 275.21 | 48.79 |
| 156 | 276.70 | 48.80 |
| 157 | 278.18 | 49.26 |
| 158 | 279.67 | 49.55 |
| 159 | 281.16 | 49.62 |
| 160 | 282.65 | 49.02 |
| 161 | 284.13 | 48.52 |
| 162 | 285.62 | 48.41 |
| 163 | 287.11 | 48.54 |
| 164 | 288.60 | 49.01 |
| 165 | 290.08 | 49.85 |
| 166 | 291.57 | 50.69 |
| 167 | 293.06 | 50.75 |
| 168 | 294.55 | 50.75 |
| 169 | 296.58 | 50.72 |
| 170 | 298.61 | 50.28 |
| 171 | 300.65 | 49.64 |
| 172 | 302.68 | 48.34 |
| 173 | 304.71 | 47.78 |
| 174 | 306.75 | 47.41 |
| 175 | 308.78 | 47.21 |
| 176 | 310.82 | 47.34 |
| 177 | 312.85 | 48.11 |
| 178 | 314.88 | 48.84 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 179 | 316.92 | 49.04 |
| 180 | 318.95 | 49.09 |
| 181 | 320.98 | 49.08 |
| 182 | 323.02 | 49.07 |
| 183 | 325.05 | 49.18 |
| 184 | 327.09 | 49.48 |
| 185 | 329.34 | 49.49 |
| 186 | 331.59 | 49.27 |
| 187 | 333.84 | 49.34 |
| 188 | 336.09 | 49.48 |
| 189 | 338.34 | 49.33 |
| 190 | 340.59 | 48.66 |
| 191 | 342.84 | 48.05 |
| 192 | 345.10 | 47.70 |
| 193 | 347.35 | 47.63 |
| 194 | 349.60 | 47.75 |
| 195 | 351.85 | 47.70 |
| 196 | 354.10 | 47.45 |
| 197 | 356.35 | 47.58 |
| 198 | 358.60 | 47.89 |
| 199 | 360.85 | 48.18 |
| 200 | 363.10 | 48.48 |
| 201 | 365.36 | 48.78 |
| 202 | 367.61 | 49.05 |
| 203 | 369.86 | 49.37 |
| 204 | 372.11 | 49.67 |
| 205 | 374.36 | 49.46 |
| 206 | 376.61 | 49.22 |
| 207 | 378.86 | 49.30 |
| 208 | 381.11 | 49.47 |
| 209 | 383.36 | 49.39 |
| 210 | 385.62 | 49.12 |
| 211 | 387.87 | 49.04 |
| 212 | 390.12 | 49.36 |
| 213 | 392.37 | 49.76 |
| 214 | 394.62 | 50.34 |
| 215 | 396.87 | 50.63 |
| 216 | 399.12 | 50.54 |
| 217 | 400.68 | 50.29 |
| 218 | 402.24 | 50.23 |
| 219 | 403.80 | 49.70 |
| 220 | 405.35 | 49.52 |
| 221 | 406.91 | 48.97 |
| 222 | 408.47 | 48.42 |
| 223 | 410.03 | 48.24 |
| 224 | 411.58 | 48.08 |
| 225 | 413.14 | 48.19 |
| 226 | 414.70 | 48.45 |
| 227 | 416.26 | 48.57 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 228 | 417.81 | 48.85 |
| 229 | 419.37 | 48.86 |
| 230 | 420.93 | 48.82 |
| 231 | 422.49 | 48.84 |
| 232 | 424.04 | 49.00 |
| 233 | 425.51 | 49.09 |
| 234 | 426.98 | 49.05 |
| 235 | 428.45 | 48.93 |
| 236 | 429.91 | 48.67 |
| 237 | 431.38 | 48.41 |
| 238 | 432.85 | 48.22 |
| 239 | 434.31 | 48.17 |
| 240 | 435.78 | 48.22 |
| 241 | 437.25 | 48.26 |
| 242 | 438.71 | 48.27 |
| 243 | 440.18 | 48.11 |
| 244 | 441.65 | 47.99 |
| 245 | 443.11 | 47.93 |
| 246 | 444.58 | 47.91 |
| 247 | 446.05 | 47.91 |
| 248 | 447.52 | 47.94 |
| 249 | 449.35 | 47.92 |
| 250 | 451.19 | 47.93 |
| 251 | 453.03 | 47.97 |
| 252 | 454.87 | 48.03 |
| 253 | 456.71 | 48.09 |
| 254 | 458.55 | 48.16 |
| 255 | 460.38 | 48.25 |
| 256 | 462.22 | 48.24 |
| 257 | 464.06 | 48.22 |
| 258 | 465.90 | 48.19 |
| 259 | 467.74 | 48.05 |
| 260 | 469.57 | 47.91 |
| 261 | 471.41 | 47.80 |
| 262 | 473.25 | 47.87 |
| 263 | 475.09 | 48.03 |
| 264 | 476.93 | 48.20 |
| 265 | 478.77 | 48.37 |
| 266 | 480.60 | 48.55 |
| 267 | 482.44 | 48.71 |
| 268 | 484.28 | 48.89 |
| 269 | 486.12 | 49.08 |
| 270 | 487.96 | 49.22 |
| 271 | 489.80 | 49.37 |
| 272 | 491.63 | 49.53 |
| 273 | 493.47 | 49.78 |
| 274 | 495.31 | 49.91 |
| 275 | 497.15 | 49.86 |
| 276 | 498.99 | 49.42 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 277 | 500.83 | 49.33 |
| 278 | 502.66 | 49.55 |
| 279 | 504.50 | 50.10 |
| 280 | 506.34 | 50.46 |
| 281 | 508.70 | 50.66 |
| 282 | 511.07 | 50.17 |
| 283 | 513.43 | 50.00 |
| 284 | 515.79 | 49.92 |
| 285 | 518.16 | 49.96 |
| 286 | 520.52 | 49.70 |
| 287 | 522.88 | 49.47 |
| 288 | 525.25 | 49.50 |

Comment:

## Weir Cross Section: X-0330W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 47.98 |
| 1 | 2.33 | 48.38 |
| 2 | 4.66 | 48.47 |
| 3 | 7.16 | 48.28 |
| 4 | 9.66 | 48.22 |
| 5 | 12.16 | 48.32 |
| 6 | 14.66 | 48.49 |
| 7 | 17.16 | 48.45 |
| 8 | 19.66 | 48.77 |
| 9 | 22.15 | 49.68 |
| 10 | 24.65 | 50.32 |
| 11 | 27.15 | 50.68 |
| 12 | 29.65 | 51.26 |
| 13 | 32.15 | 51.77 |
| 14 | 34.65 | 51.91 |
| 15 | 37.15 | 52.00 |
| 16 | 39.65 | 52.48 |
| 17 | 42.15 | 53.20 |
| 18 | 44.65 | 53.94 |
| 19 | 46.30 | 54.39 |
| 20 | 47.95 | 54.58 |
| 21 | 49.60 | 54.47 |
| 22 | 51.25 | 54.27 |
| 23 | 52.90 | 54.03 |
| 24 | 54.54 | 53.76 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 25 | 56.19 | 53.53 |
| 26 | 57.84 | 53.32 |
| 27 | 59.49 | 52.88 |
| 28 | 61.14 | 52.34 |
| 29 | 62.79 | 52.05 |
| 30 | 64.44 | 51.85 |
| 31 | 66.09 | 51.60 |
| 32 | 67.74 | 51.29 |
| 33 | 69.39 | 51.09 |
| 34 | 71.04 | 51.15 |
| 35 | 72.94 | 51.30 |
| 36 | 74.84 | 51.75 |
| 37 | 76.74 | 51.30 |
| 38 | 78.64 | 50.55 |
| 39 | 80.55 | 49.89 |
| 40 | 82.45 | 49.68 |
| 41 | 84.35 | 49.57 |
| 42 | 86.25 | 49.51 |
| 43 | 88.16 | 49.58 |
| 44 | 90.06 | 49.65 |
| 45 | 91.96 | 49.76 |
| 46 | 93.86 | 50.04 |
| 47 | 95.77 | 50.81 |
| 48 | 97.67 | 51.30 |
| 49 | 99.57 | 51.52 |
| 50 | 101.47 | 51.39 |
| 51 | 103.21 | 51.08 |
| 52 | 104.96 | 50.75 |
| 53 | 106.70 | 50.39 |
| 54 | 108.44 | 50.00 |
| 55 | 110.18 | 50.04 |
| 56 | 111.92 | 50.22 |
| 57 | 113.66 | 50.37 |
| 58 | 115.40 | 50.18 |
| 59 | 117.14 | 49.92 |
| 60 | 118.88 | 49.65 |
| 61 | 120.62 | 49.54 |
| 62 | 122.36 | 49.45 |
| 63 | 124.10 | 49.38 |
| 64 | 125.84 | 49.39 |
| 65 | 127.58 | 49.45 |
| 66 | 129.32 | 49.50 |

Comment:

Weir Cross Section: X-0340W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 48.47 |
| 1 | 1.83 | 48.48 |
| 2 | 3.67 | 48.24 |
| 3 | 5.50 | 47.69 |
| 4 | 7.33 | 47.19 |
| 5 | 9.17 | 46.81 |
| 6 | 11.00 | 46.62 |
| 7 | 12.84 | 46.55 |
| 8 | 14.67 | 46.54 |
| 9 | 16.50 | 46.52 |
| 10 | 18.34 | 46.36 |
| 11 | 20.17 | 46.27 |
| 12 | 22.00 | 46.28 |
| 13 | 23.84 | 46.35 |
| 14 | 25.67 | 46.41 |
| 15 | 27.50 | 46.47 |
| 16 | 29.34 | 46.49 |
| 17 | 31.12 | 46.47 |
| 18 | 32.91 | 46.40 |
| 19 | 34.69 | 46.33 |
| 20 | 36.48 | 46.18 |
| 21 | 38.26 | 45.96 |
| 22 | 40.05 | 45.84 |
| 23 | 41.84 | 45.88 |
| 24 | 43.62 | 45.88 |
| 25 | 45.41 | 45.86 |
| 26 | 47.19 | 45.74 |
| 27 | 48.98 | 45.68 |
| 28 | 50.76 | 45.71 |
| 29 | 52.55 | 45.82 |
| 30 | 54.33 | 45.97 |
| 31 | 56.12 | 45.96 |
| 32 | 57.90 | 45.84 |
| 33 | 59.27 | 45.80 |
| 34 | 60.64 | 45.76 |
| 35 | 62.01 | 45.70 |
| 36 | 63.38 | 45.60 |
| 37 | 64.75 | 45.50 |
| 38 | 66.12 | 45.48 |
| 39 | 67.49 | 45.47 |
| 40 | 68.86 | 45.45 |
| 41 | 70.23 | 45.44 |
| 42 | 71.60 | 45.44 |
| 43 | 72.97 | 45.45 |
| 44 | 74.34 | 45.46 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 45 | 75.71 | 45.47 |
| 46 | 77.08 | 45.51 |
| 47 | 78.45 | 45.55 |
| 48 | 79.82 | 45.60 |
| 49 | 81.51 | 45.63 |
| 50 | 83.21 | 45.62 |
| 51 | 84.90 | 45.67 |
| 52 | 86.60 | 45.71 |
| 53 | 88.29 | 45.77 |
| 54 | 89.98 | 45.80 |
| 55 | 91.68 | 45.84 |
| 56 | 93.37 | 45.82 |
| 57 | 95.17 | 45.73 |
| 58 | 96.96 | 45.58 |
| 59 | 98.76 | 45.34 |
| 60 | 100.55 | 45.11 |
| 61 | 102.35 | 44.93 |
| 62 | 104.14 | 44.87 |
| 63 | 105.94 | 44.86 |
| 64 | 107.73 | 44.86 |
| 65 | 109.53 | 44.87 |
| 66 | 111.32 | 44.92 |
| 67 | 113.12 | 45.16 |
| 68 | 114.91 | 45.44 |
| 69 | 116.71 | 45.64 |
| 70 | 118.50 | 45.79 |
| 71 | 120.30 | 45.86 |
| 72 | 122.09 | 45.84 |
| 73 | 123.81 | 45.81 |
| 74 | 125.53 | 45.73 |
| 75 | 127.25 | 45.60 |
| 76 | 128.97 | 45.44 |
| 77 | 130.68 | 45.20 |
| 78 | 132.40 | 45.12 |
| 79 | 134.12 | 45.11 |
| 80 | 135.84 | 45.15 |
| 81 | 137.56 | 45.28 |
| 82 | 139.27 | 45.46 |
| 83 | 140.99 | 45.69 |
| 84 | 142.71 | 45.92 |
| 85 | 144.43 | 46.10 |
| 86 | 146.14 | 46.22 |
| 87 | 147.86 | 46.33 |
| 88 | 149.58 | 46.45 |
| 89 | 151.52 | 46.51 |
| 90 | 153.46 | 46.58 |
| 91 | 155.40 | 46.62 |
| 92 | 157.34 | 46.65 |
| 93 | 159.28 | 46.67 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 94 | 161.23 | 46.67 |
| 95 | 163.17 | 46.69 |
| 96 | 165.11 | 46.73 |
| 97 | 167.05 | 46.88 |
| 98 | 168.99 | 46.98 |
| 99 | 170.93 | 47.05 |
| 100 | 172.87 | 46.96 |
| 101 | 174.81 | 46.64 |
| 102 | 176.75 | 46.69 |
| 103 | 178.70 | 46.72 |
| 104 | 180.64 | 46.73 |
| 105 | 182.58 | 46.71 |
| 106 | 184.52 | 46.60 |
| 107 | 186.46 | 46.50 |
| 108 | 188.40 | 46.65 |
| 109 | 190.34 | 46.81 |
| 110 | 192.28 | 46.73 |
| 111 | 194.22 | 46.63 |
| 112 | 196.16 | 46.59 |
| 113 | 198.11 | 46.55 |
| 114 | 200.05 | 46.51 |
| 115 | 201.99 | 46.48 |
| 116 | 203.93 | 46.45 |
| 117 | 205.87 | 46.41 |
| 118 | 207.81 | 46.38 |
| 119 | 209.75 | 46.35 |
| 120 | 211.69 | 46.32 |
| 121 | 213.12 | 46.30 |
| 122 | 214.54 | 46.28 |
| 123 | 215.96 | 46.26 |
| 124 | 217.38 | 46.25 |
| 125 | 218.81 | 46.23 |
| 126 | 220.23 | 46.21 |
| 127 | 221.65 | 46.19 |
| 128 | 223.07 | 46.17 |
| 129 | 224.50 | 46.12 |
| 130 | 225.92 | 46.10 |
| 131 | 227.34 | 46.09 |
| 132 | 228.77 | 46.11 |
| 133 | 230.19 | 46.16 |
| 134 | 231.61 | 46.23 |
| 135 | 233.03 | 46.30 |
| 136 | 234.46 | 46.30 |
| 137 | 235.88 | 46.28 |
| 138 | 237.30 | 46.26 |
| 139 | 238.73 | 46.26 |
| 140 | 240.15 | 46.34 |
| 141 | 241.57 | 46.39 |
| 142 | 242.99 | 46.40 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 143 | 244.42 | 46.46 |
| 144 | 245.84 | 46.53 |
| 145 | 247.26 | 46.59 |
| 146 | 248.69 | 46.62 |
| 147 | 250.11 | 46.62 |
| 148 | 251.53 | 46.62 |
| 149 | 252.95 | 46.62 |
| 150 | 254.38 | 46.60 |
| 151 | 255.80 | 46.57 |
| 152 | 257.22 | 46.54 |
| 153 | 259.46 | 46.54 |
| 154 | 261.70 | 46.58 |
| 155 | 263.93 | 46.55 |
| 156 | 266.17 | 46.54 |
| 157 | 268.41 | 46.61 |
| 158 | 270.64 | 46.71 |
| 159 | 272.88 | 46.87 |
| 160 | 275.12 | 47.04 |
| 161 | 277.35 | 47.19 |
| 162 | 279.59 | 47.31 |
| 163 | 281.83 | 47.39 |
| 164 | 284.07 | 47.45 |
| 165 | 286.30 | 47.48 |
| 166 | 288.54 | 47.51 |
| 167 | 290.78 | 47.49 |
| 168 | 293.01 | 47.47 |

Comment:

## Weir Cross Section: X-0350W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 48.36 |
| 1 | 1.72 | 48.45 |
| 2 | 3.45 | 48.51 |
| 3 | 5.17 | 48.65 |
| 4 | 6.89 | 48.91 |
| 5 | 8.61 | 49.05 |
| 6 | 10.34 | 49.27 |
| 7 | 12.06 | 49.66 |
| 8 | 13.78 | 50.09 |
| 9 | 15.50 | 50.42 |
| 10 | 17.23 | 50.77 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 11 | 18.95 | 51.17 |
| 12 | 20.67 | 51.28 |
| 13 | 22.39 | 50.86 |
| 14 | 24.12 | 50.79 |
| 15 | 25.84 | 50.81 |
| 16 | 27.56 | 50.77 |
| 17 | 29.18 | 50.54 |
| 18 | 30.80 | 50.43 |
| 19 | 32.42 | 50.42 |
| 20 | 34.04 | 50.45 |
| 21 | 35.67 | 50.55 |
| 22 | 37.29 | 50.73 |
| 23 | 38.91 | 50.91 |
| 24 | 40.53 | 51.01 |
| 25 | 42.15 | 51.01 |
| 26 | 43.77 | 51.05 |
| 27 | 45.39 | 51.05 |
| 28 | 47.01 | 51.12 |
| 29 | 48.63 | 51.10 |
| 30 | 50.25 | 51.12 |
| 31 | 51.87 | 51.22 |
| 32 | 53.49 | 51.27 |
| 33 | 55.11 | 51.41 |
| 34 | 56.73 | 51.10 |
| 35 | 58.35 | 50.90 |
| 36 | 59.97 | 50.97 |
| 37 | 61.59 | 51.15 |
| 38 | 63.22 | 51.41 |
| 39 | 64.84 | 51.56 |
| 40 | 66.46 | 51.89 |
| 41 | 68.08 | 52.38 |
| 42 | 69.70 | 52.28 |
| 43 | 71.32 | 52.40 |
| 44 | 72.94 | 52.90 |
| 45 | 74.56 | 53.07 |
| 46 | 76.18 | 53.20 |
| 47 | 77.80 | 53.28 |
| 48 | 79.42 | 53.27 |
| 49 | 80.77 | 53.22 |
| 50 | 82.13 | 53.01 |
| 51 | 83.48 | 52.66 |
| 52 | 84.83 | 52.30 |
| 53 | 86.18 | 52.16 |
| 54 | 87.54 | 52.10 |
| 55 | 88.89 | 52.08 |
| 56 | 90.24 | 52.05 |
| 57 | 91.59 | 51.98 |
| 58 | 92.95 | 51.20 |
| 59 | 94.30 | 50.33 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 60 | 95.65 | 49.66 |
| 61 | 97.00 | 49.75 |
| 62 | 98.36 | 49.81 |
| 63 | 99.71 | 50.06 |
| 64 | 101.06 | 50.28 |
| 65 | 102.41 | 50.35 |
| 66 | 103.77 | 50.43 |
| 67 | 105.12 | 50.58 |
| 68 | 106.47 | 50.79 |
| 69 | 107.82 | 51.26 |
| 70 | 109.18 | 52.05 |
| 71 | 110.53 | 52.72 |
| 72 | 111.88 | 53.12 |
| 73 | 113.23 | 53.37 |
| 74 | 114.59 | 53.58 |
| 75 | 115.94 | 53.68 |
| 76 | 117.29 | 53.85 |
| 77 | 118.64 | 54.03 |
| 78 | 120.00 | 53.94 |
| 79 | 121.35 | 54.04 |
| 80 | 122.70 | 54.40 |
| 81 | 125.00 | 54.71 |
| 82 | 127.30 | 54.53 |
| 83 | 129.60 | 53.76 |
| 84 | 131.90 | 52.92 |
| 85 | 134.20 | 52.49 |
| 86 | 136.49 | 52.43 |
| 87 | 138.79 | 52.28 |
| 88 | 141.09 | 52.27 |
| 89 | 143.39 | 52.21 |
| 90 | 145.69 | 52.08 |
| 91 | 147.99 | 52.05 |
| 92 | 150.29 | 52.03 |
| 93 | 152.59 | 52.05 |
| 94 | 154.89 | 52.17 |
| 95 | 157.19 | 52.44 |
| 96 | 159.48 | 52.93 |
| 97 | 160.92 | 53.12 |
| 98 | 162.36 | 53.24 |
| 99 | 163.80 | 53.33 |
| 100 | 165.24 | 53.04 |
| 101 | 166.67 | 52.82 |
| 102 | 168.11 | 52.59 |
| 103 | 169.55 | 52.36 |
| 104 | 170.99 | 52.14 |
| 105 | 172.42 | 52.13 |
| 106 | 173.86 | 52.28 |
| 107 | 175.30 | 52.48 |
| 108 | 176.74 | 52.77 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 109 | 178.17 | 53.15 |
| 110 | 179.61 | 53.32 |
| 111 | 181.05 | 53.09 |
| 112 | 182.49 | 52.91 |
| 113 | 184.01 | 52.73 |
| 114 | 185.54 | 52.66 |
| 115 | 187.06 | 52.66 |
| 116 | 188.59 | 52.76 |
| 117 | 190.11 | 53.02 |
| 118 | 191.64 | 53.32 |
| 119 | 193.16 | 53.28 |
| 120 | 194.69 | 53.18 |
| 121 | 196.22 | 53.26 |
| 122 | 197.74 | 53.26 |
| 123 | 199.27 | 53.21 |
| 124 | 200.79 | 53.08 |
| 125 | 202.32 | 52.92 |
| 126 | 203.84 | 52.70 |
| 127 | 205.37 | 52.50 |
| 128 | 206.89 | 52.30 |
| 129 | 208.42 | 52.53 |
| 130 | 209.95 | 52.77 |
| 131 | 211.47 | 52.92 |
| 132 | 213.00 | 52.82 |
| 133 | 214.52 | 52.59 |
| 134 | 216.05 | 52.96 |
| 135 | 217.57 | 53.26 |
| 136 | 219.10 | 53.34 |
| 137 | 220.62 | 53.28 |
| 138 | 222.15 | 53.18 |
| 139 | 223.67 | 52.94 |
| 140 | 225.20 | 52.78 |
| 141 | 226.73 | 52.74 |
| 142 | 228.25 | 52.64 |
| 143 | 229.78 | 52.46 |
| 144 | 231.30 | 52.23 |
| 145 | 233.48 | 52.04 |
| 146 | 235.65 | 52.07 |
| 147 | 237.82 | 51.87 |
| 148 | 239.99 | 51.59 |
| 149 | 242.17 | 50.90 |
| 150 | 244.34 | 50.84 |
| 151 | 246.51 | 51.25 |
| 152 | 248.69 | 51.51 |
| 153 | 250.86 | 51.48 |
| 154 | 253.03 | 51.54 |
| 155 | 255.21 | 51.62 |
| 156 | 257.38 | 51.64 |
| 157 | 259.55 | 51.93 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 158 | 261.73 | 52.08 |
| 159 | 263.90 | 52.39 |
| 160 | 266.07 | 53.20 |
| 161 | 267.44 | 53.58 |
| 162 | 268.80 | 53.74 |
| 163 | 270.17 | 53.52 |
| 164 | 271.53 | 53.17 |
| 165 | 272.90 | 52.71 |
| 166 | 274.26 | 52.32 |
| 167 | 275.62 | 51.97 |
| 168 | 276.99 | 51.62 |
| 169 | 278.35 | 51.28 |
| 170 | 279.72 | 51.08 |
| 171 | 281.08 | 50.88 |
| 172 | 282.45 | 50.71 |
| 173 | 283.81 | 50.67 |
| 174 | 285.18 | 50.87 |
| 175 | 286.54 | 51.10 |
| 176 | 287.90 | 51.37 |
| 177 | 289.27 | 51.58 |
| 178 | 290.63 | 51.77 |
| 179 | 292.00 | 52.04 |
| 180 | 293.36 | 52.32 |
| 181 | 294.73 | 52.67 |
| 182 | 296.09 | 52.97 |
| 183 | 297.46 | 53.16 |
| 184 | 298.82 | 53.36 |
| 185 | 300.18 | 53.58 |
| 186 | 301.55 | 53.92 |
| 187 | 302.91 | 54.37 |
| 188 | 304.28 | 54.82 |
| 189 | 305.64 | 55.28 |
| 190 | 307.01 | 55.45 |
| 191 | 308.37 | 55.57 |
| 192 | 309.74 | 55.48 |
| 193 | 311.83 | 55.11 |
| 194 | 313.92 | 53.72 |
| 195 | 316.01 | 53.09 |
| 196 | 318.10 | 52.98 |
| 197 | 320.20 | 53.01 |
| 198 | 322.29 | 53.10 |
| 199 | 324.38 | 53.17 |
| 200 | 326.47 | 53.20 |
| 201 | 328.56 | 53.34 |
| 202 | 330.66 | 53.07 |
| 203 | 332.75 | 52.94 |
| 204 | 334.84 | 52.69 |
| 205 | 336.93 | 52.61 |
| 206 | 339.03 | 52.37 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 207 | 341.12 | 52.13 |
| 208 | 343.21 | 52.13 |
| 209 | 345.30 | 52.36 |
| 210 | 347.39 | 52.81 |
| 211 | 349.49 | 53.03 |
| 212 | 351.58 | 52.85 |
| 213 | 353.67 | 52.77 |
| 214 | 355.76 | 52.71 |
| 215 | 357.86 | 52.67 |
| 216 | 359.95 | 52.78 |
| 217 | 362.04 | 53.07 |
| 218 | 364.13 | 53.34 |
| 219 | 366.22 | 53.58 |
| 220 | 368.32 | 53.89 |
| 221 | 370.41 | 54.58 |
| 222 | 372.50 | 55.20 |
| 223 | 374.59 | 55.61 |
| 224 | 376.69 | 55.83 |
| 225 | 378.48 | 55.60 |
| 226 | 380.27 | 55.29 |
| 227 | 382.07 | 54.96 |
| 228 | 383.86 | 54.95 |
| 229 | 385.65 | 55.24 |
| 230 | 387.45 | 55.76 |
| 231 | 389.24 | 55.69 |
| 232 | 391.03 | 54.86 |
| 233 | 392.83 | 53.81 |
| 234 | 394.62 | 53.04 |
| 235 | 396.41 | 52.79 |
| 236 | 398.21 | 52.60 |
| 237 | 400.00 | 52.38 |
| 238 | 401.79 | 52.45 |
| 239 | 403.59 | 52.38 |
| 240 | 405.38 | 52.44 |
| 241 | 407.59 | 52.77 |
| 242 | 409.81 | 52.94 |
| 243 | 412.02 | 52.87 |
| 244 | 414.24 | 52.66 |
| 245 | 416.45 | 52.35 |
| 246 | 418.66 | 52.08 |
| 247 | 420.88 | 51.79 |
| 248 | 423.09 | 51.56 |
| 249 | 425.30 | 51.45 |
| 250 | 427.52 | 51.49 |
| 251 | 429.73 | 51.74 |
| 252 | 431.95 | 52.29 |
| 253 | 434.16 | 52.36 |
| 254 | 436.37 | 52.13 |
| 255 | 438.59 | 52.00 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 256 | 440.80 | 52.16 |
| 257 | 442.99 | 52.61 |
| 258 | 445.19 | 53.02 |
| 259 | 447.38 | 52.97 |
| 260 | 449.57 | 52.96 |
| 261 | 451.76 | 52.77 |
| 262 | 453.96 | 52.64 |
| 263 | 456.15 | 52.52 |
| 264 | 458.34 | 52.40 |
| 265 | 460.54 | 52.30 |
| 266 | 462.73 | 52.23 |
| 267 | 464.92 | 52.65 |
| 268 | 467.11 | 54.14 |
| 269 | 469.31 | 54.66 |
| 270 | 471.50 | 54.83 |
| 271 | 473.69 | 54.82 |
| 272 | 475.89 | 54.60 |
| 273 | 477.31 | 54.61 |
| 274 | 478.74 | 54.65 |
| 275 | 480.17 | 54.73 |
| 276 | 481.60 | 54.81 |
| 277 | 483.02 | 54.88 |
| 278 | 484.45 | 54.88 |
| 279 | 485.88 | 54.87 |
| 280 | 487.30 | 54.81 |
| 281 | 488.73 | 54.80 |
| 282 | 490.16 | 54.87 |
| 283 | 491.59 | 54.82 |
| 284 | 493.01 | 54.74 |
| 285 | 494.44 | 54.78 |
| 286 | 495.87 | 54.82 |
| 287 | 497.30 | 54.87 |
| 288 | 498.72 | 54.90 |
| 289 | 500.15 | 54.90 |
| 290 | 501.58 | 54.93 |
| 291 | 503.01 | 54.99 |
| 292 | 504.43 | 55.05 |
| 293 | 505.86 | 55.10 |
| 294 | 507.29 | 55.16 |
| 295 | 508.72 | 55.20 |
| 296 | 510.14 | 55.23 |
| 297 | 511.57 | 55.16 |
| 298 | 513.00 | 55.05 |
| 299 | 514.42 | 55.23 |
| 300 | 515.85 | 55.40 |
| 301 | 517.28 | 55.48 |
| 302 | 518.71 | 55.52 |
| 303 | 520.13 | 55.54 |
| 304 | 521.56 | 55.59 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 305 | 523.56 | 55.36 |
| 306 | 525.56 | 54.69 |
| 307 | 527.57 | 54.37 |
| 308 | 529.57 | 54.39 |
| 309 | 531.57 | 54.25 |
| 310 | 533.57 | 53.89 |
| 311 | 535.57 | 53.45 |
| 312 | 537.57 | 53.03 |
| 313 | 539.58 | 53.01 |
| 314 | 541.58 | 53.12 |
| 315 | 543.58 | 53.17 |
| 316 | 545.58 | 53.26 |
| 317 | 547.58 | 53.37 |
| 318 | 549.58 | 53.45 |
| 319 | 551.59 | 53.54 |
| 320 | 553.59 | 53.61 |
| 321 | 555.59 | 53.68 |
| 322 | 557.59 | 53.56 |
| 323 | 559.59 | 53.23 |
| 324 | 561.59 | 52.88 |
| 325 | 563.60 | 52.70 |
| 326 | 565.60 | 52.83 |
| 327 | 567.60 | 53.04 |
| 328 | 569.60 | 53.29 |
| 329 | 571.60 | 53.42 |
| 330 | 573.60 | 53.44 |
| 331 | 575.61 | 53.66 |
| 332 | 577.61 | 53.73 |
| 333 | 579.61 | 53.49 |
| 334 | 581.61 | 53.41 |
| 335 | 583.61 | 53.42 |
| 336 | 585.61 | 53.48 |
| 337 | 587.65 | 53.57 |
| 338 | 589.68 | 53.50 |
| 339 | 591.71 | 53.35 |
| 340 | 593.75 | 53.34 |
| 341 | 595.78 | 53.00 |
| 342 | 597.81 | 52.98 |
| 343 | 599.84 | 53.04 |
| 344 | 601.88 | 53.11 |
| 345 | 603.91 | 53.18 |
| 346 | 605.94 | 53.27 |
| 347 | 607.97 | 53.28 |
| 348 | 610.01 | 53.13 |
| 349 | 612.04 | 53.00 |
| 350 | 614.07 | 53.12 |
| 351 | 616.10 | 53.16 |
| 352 | 618.14 | 53.05 |
| 353 | 620.17 | 52.92 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 354 | 622.20 | 52.77 |
| 355 | 624.24 | 52.61 |
| 356 | 626.27 | 52.40 |
| 357 | 628.30 | 52.57 |
| 358 | 630.33 | 52.74 |
| 359 | 632.37 | 52.90 |
| 360 | 634.40 | 53.08 |
| 361 | 636.43 | 53.16 |
| 362 | 638.46 | 52.95 |
| 363 | 640.50 | 53.01 |
| 364 | 642.53 | 53.00 |
| 365 | 644.56 | 52.94 |
| 366 | 646.59 | 52.95 |
| 367 | 648.63 | 53.02 |
| 368 | 650.66 | 52.87 |
| 369 | 652.76 | 52.96 |
| 370 | 654.85 | 53.31 |
| 371 | 656.95 | 53.68 |
| 372 | 659.04 | 53.83 |
| 373 | 661.14 | 53.91 |
| 374 | 663.23 | 54.17 |
| 375 | 665.33 | 54.45 |
| 376 | 667.42 | 54.44 |
| 377 | 669.52 | 54.40 |
| 378 | 671.61 | 54.38 |
| 379 | 673.71 | 54.38 |
| 380 | 675.80 | 54.33 |
| 381 | 677.90 | 54.31 |
| 382 | 679.99 | 54.46 |
| 383 | 682.09 | 54.54 |
| 384 | 684.18 | 54.45 |
| 385 | 686.28 | 54.22 |
| 386 | 688.37 | 54.02 |
| 387 | 690.47 | 53.91 |
| 388 | 692.56 | 53.86 |
| 389 | 694.66 | 53.81 |
| 390 | 696.76 | 53.77 |
| 391 | 698.85 | 53.73 |
| 392 | 700.95 | 53.80 |
| 393 | 703.04 | 53.90 |
| 394 | 705.14 | 53.89 |
| 395 | 707.23 | 53.91 |
| 396 | 709.33 | 53.93 |
| 397 | 711.42 | 53.95 |
| 398 | 713.52 | 53.98 |
| 399 | 715.61 | 54.01 |
| 400 | 717.71 | 54.04 |
| 401 | 720.06 | 54.09 |
| 402 | 722.41 | 54.27 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 403 | 724.76 | 54.51 |
| 404 | 727.12 | 54.71 |
| 405 | 729.47 | 54.91 |
| 406 | 731.82 | 55.10 |
| 407 | 734.17 | 55.15 |
| 408 | 736.53 | 55.13 |
| 409 | 738.88 | 55.06 |
| 410 | 741.23 | 55.30 |
| 411 | 743.58 | 55.40 |
| 412 | 745.93 | 55.46 |
| 413 | 748.29 | 55.65 |
| 414 | 750.64 | 55.78 |
| 415 | 752.99 | 55.53 |
| 416 | 755.34 | 55.29 |
| 417 | 757.70 | 55.22 |
| 418 | 760.05 | 55.53 |
| 419 | 762.40 | 56.13 |
| 420 | 764.75 | 56.98 |
| 421 | 767.11 | 57.85 |
| 422 | 769.46 | 57.99 |
| 423 | 771.81 | 57.27 |
| 424 | 774.16 | 56.64 |
| 425 | 776.51 | 56.43 |
| 426 | 778.87 | 56.51 |
| 427 | 781.22 | 56.77 |
| 428 | 783.57 | 56.93 |
| 429 | 785.92 | 57.06 |
| 430 | 788.28 | 57.24 |
| 431 | 790.63 | 57.49 |
| 432 | 792.98 | 57.67 |
| 433 | 795.33 | 57.77 |
| 434 | 797.69 | 57.81 |
| 435 | 800.04 | 57.83 |
| 436 | 802.39 | 57.85 |
| 437 | 804.74 | 57.86 |
| 438 | 807.09 | 57.86 |
| 439 | 809.45 | 57.85 |
| 440 | 811.80 | 57.84 |
| 441 | 814.15 | 57.83 |
| 442 | 816.50 | 57.84 |
| 443 | 818.86 | 57.83 |
| 444 | 821.21 | 57.80 |
| 445 | 823.56 | 57.76 |
| 446 | 825.91 | 57.72 |
| 447 | 828.27 | 57.68 |
| 448 | 830.62 | 57.79 |
| 449 | 832.97 | 57.92 |
| 450 | 835.32 | 57.89 |
| 451 | 837.67 | 57.88 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 452 | 840.03 | 58.07 |
| 453 | 842.38 | 58.38 |
| 454 | 844.73 | 58.65 |
| 455 | 847.08 | 58.78 |
| 456 | 849.44 | 59.05 |
| 457 | 851.79 | 59.47 |
| 458 | 854.14 | 59.88 |
| 459 | 856.49 | 60.28 |
| 460 | 858.85 | 60.68 |
| 461 | 861.20 | 61.10 |
| 462 | 863.55 | 61.47 |
| 463 | 865.90 | 61.77 |
| 464 | 868.25 | 62.12 |
| 465 | 870.50 | 62.46 |
| 466 | 872.74 | 62.70 |
| 467 | 874.98 | 62.91 |
| 468 | 877.22 | 62.78 |
| 469 | 879.44 | 62.36 |
| 470 | 881.66 | 61.83 |
| 471 | 883.88 | 60.85 |
| 472 | 886.10 | 60.06 |
| 473 | 888.32 | 60.20 |
| 474 | 890.54 | 60.68 |
| 475 | 892.75 | 61.12 |
| 476 | 894.97 | 61.46 |
| 477 | 897.19 | 61.70 |
| 478 | 899.41 | 61.87 |
| 479 | 901.63 | 62.10 |
| 480 | 903.85 | 62.41 |
| 481 | 906.07 | 62.82 |
| 482 | 908.28 | 63.30 |
| 483 | 910.50 | 63.79 |
| 484 | 912.72 | 64.26 |
| 485 | 914.55 | 64.18 |
| 486 | 916.38 | 64.16 |
| 487 | 918.22 | 64.19 |
| 488 | 920.05 | 64.27 |
| 489 | 921.88 | 64.36 |
| 490 | 923.71 | 64.55 |
| 491 | 925.54 | 65.16 |
| 492 | 927.38 | 65.91 |
| 493 | 929.21 | 66.67 |
| 494 | 931.04 | 67.43 |
| 495 | 932.87 | 68.19 |
| 496 | 934.71 | 68.61 |
| 497 | 936.54 | 68.97 |
| 498 | 938.37 | 69.33 |
| 499 | 940.20 | 69.51 |
| 500 | 942.03 | 69.41 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 501 | 943.76 | 69.50 |
| 502 | 945.49 | 69.64 |
| 503 | 947.22 | 69.81 |
| 504 | 948.94 | 70.17 |
| 505 | 950.67 | 70.60 |
| 506 | 952.40 | 70.98 |
| 507 | 954.12 | 71.14 |
| 508 | 955.85 | 71.19 |
| 509 | 957.58 | 71.16 |
| 510 | 959.31 | 71.25 |
| 511 | 961.03 | 71.35 |
| 512 | 962.76 | 71.37 |
| 513 | 964.49 | 71.35 |
| 514 | 966.22 | 71.35 |
| 515 | 967.94 | 71.42 |
| 516 | 969.67 | 71.30 |
| 517 | 971.03 | 71.21 |
| 518 | 972.39 | 71.26 |
| 519 | 973.75 | 71.31 |
| 520 | 975.12 | 71.36 |
| 521 | 976.48 | 71.41 |
| 522 | 977.84 | 71.45 |
| 523 | 979.20 | 71.51 |
| 524 | 980.56 | 71.58 |
| 525 | 981.92 | 71.77 |
| 526 | 983.28 | 71.96 |
| 527 | 984.64 | 71.59 |
| 528 | 986.01 | 71.22 |
| 529 | 987.37 | 71.02 |
| 530 | 988.73 | 70.85 |
| 531 | 990.09 | 70.72 |
| 532 | 991.45 | 70.59 |
| 533 | 992.81 | 70.48 |
| 534 | 994.17 | 70.34 |
| 535 | 995.53 | 70.20 |
| 536 | 996.89 | 70.23 |
| 537 | 998.26 | 70.34 |
| 538 | 999.62 | 70.46 |
| 539 | 1000.98 | 70.59 |
| 540 | 1002.34 | 70.73 |
| 541 | 1003.70 | 70.87 |
| 542 | 1005.06 | 70.79 |
| 543 | 1006.42 | 70.74 |
| 544 | 1007.78 | 70.78 |
| 545 | 1009.15 | 70.86 |
| 546 | 1010.51 | 70.97 |
| 547 | 1011.87 | 71.14 |
| 548 | 1013.23 | 71.39 |
| 549 | 1014.59 | 71.69 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 550 | 1015.95 | 72.05 |
| 551 | 1017.31 | 72.15 |
| 552 | 1018.67 | 72.20 |
| 553 | 1020.04 | 72.19 |
| 554 | 1021.40 | 72.13 |
| 555 | 1022.76 | 71.78 |
| 556 | 1024.12 | 71.46 |
| 557 | 1025.48 | 71.51 |
| 558 | 1026.84 | 71.52 |
| 559 | 1028.20 | 71.51 |
| 560 | 1029.56 | 71.43 |
| 561 | 1030.93 | 71.27 |
| 562 | 1032.29 | 71.09 |
| 563 | 1033.65 | 70.87 |
| 564 | 1035.01 | 70.71 |
| 565 | 1036.37 | 70.57 |
| 566 | 1037.73 | 70.54 |
| 567 | 1039.09 | 70.52 |
| 568 | 1040.45 | 70.54 |
| 569 | 1041.81 | 70.51 |
| 570 | 1043.18 | 70.34 |
| 571 | 1044.54 | 70.16 |
| 572 | 1045.90 | 69.95 |
| 573 | 1047.26 | 69.74 |
| 574 | 1048.62 | 69.56 |
| 575 | 1049.98 | 69.39 |
| 576 | 1051.34 | 69.23 |
| 577 | 1052.70 | 69.08 |
| 578 | 1054.07 | 68.94 |
| 579 | 1055.43 | 68.92 |
| 580 | 1056.79 | 68.97 |
| 581 | 1058.74 | 68.87 |
| 582 | 1060.69 | 68.78 |
| 583 | 1062.64 | 68.70 |
| 584 | 1064.59 | 68.49 |
| 585 | 1066.54 | 68.11 |
| 586 | 1068.49 | 68.15 |
| 587 | 1070.45 | 67.98 |
| 588 | 1072.40 | 67.86 |
| 589 | 1074.35 | 67.86 |
| 590 | 1076.30 | 68.01 |
| 591 | 1078.25 | 68.15 |
| 592 | 1080.20 | 68.40 |
| 593 | 1082.15 | 68.72 |
| 594 | 1084.10 | 69.05 |
| 595 | 1086.06 | 69.37 |
| 596 | 1088.01 | 69.74 |
| 597 | 1089.96 | 70.02 |
| 598 | 1091.91 | 70.28 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 599 | 1093.86 | 70.65 |
| 600 | 1095.81 | 71.11 |
| 601 | 1097.76 | 71.57 |
| 602 | 1099.71 | 71.99 |
| 603 | 1101.66 | 72.39 |
| 604 | 1103.62 | 72.78 |
| 605 | 1105.57 | 73.13 |
| 606 | 1107.52 | 73.60 |
| 607 | 1109.47 | 74.11 |
| 608 | 1111.42 | 74.52 |
| 609 | 1113.37 | 74.88 |
| 610 | 1115.32 | 75.29 |
| 611 | 1117.27 | 75.79 |
| 612 | 1119.22 | 76.40 |
| 613 | 1120.66 | 76.54 |
| 614 | 1122.10 | 76.75 |
| 615 | 1123.53 | 76.92 |
| 616 | 1124.97 | 77.04 |
| 617 | 1126.40 | 77.14 |
| 618 | 1127.84 | 77.22 |
| 619 | 1129.28 | 77.35 |
| 620 | 1130.71 | 77.52 |
| 621 | 1132.15 | 77.57 |
| 622 | 1133.58 | 77.59 |
| 623 | 1135.02 | 77.74 |
| 624 | 1136.46 | 77.96 |
| 625 | 1137.89 | 78.26 |
| 626 | 1139.33 | 78.57 |
| 627 | 1140.76 | 78.87 |
| 628 | 1142.20 | 79.16 |
| 629 | 1143.63 | 79.49 |
| 630 | 1145.07 | 79.79 |
| 631 | 1146.51 | 79.84 |
| 632 | 1147.94 | 79.89 |
| 633 | 1149.38 | 79.92 |
| 634 | 1150.81 | 79.95 |
| 635 | 1152.25 | 79.95 |
| 636 | 1153.69 | 79.90 |
| 637 | 1155.12 | 79.85 |
| 638 | 1156.56 | 79.89 |
| 639 | 1157.99 | 80.00 |
| 640 | 1159.43 | 80.13 |
| 641 | 1160.87 | 80.34 |
| 642 | 1162.30 | 80.54 |
| 643 | 1163.74 | 80.67 |
| 644 | 1165.17 | 80.77 |
| 645 | 1166.61 | 80.86 |
| 646 | 1168.04 | 80.97 |
| 647 | 1169.48 | 81.09 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 648 | 1170.92 | 81.25 |
| 649 | 1172.35 | 81.41 |
| 650 | 1173.79 | 81.45 |
| 651 | 1175.22 | 81.46 |
| 652 | 1176.66 | 81.62 |
| 653 | 1178.10 | 81.82 |
| 654 | 1179.53 | 82.02 |
| 655 | 1180.97 | 82.24 |
| 656 | 1182.40 | 82.46 |
| 657 | 1183.84 | 82.69 |
| 658 | 1185.28 | 82.86 |
| 659 | 1186.71 | 82.97 |
| 660 | 1188.15 | 83.11 |
| 661 | 1189.58 | 83.24 |
| 662 | 1191.02 | 83.34 |
| 663 | 1192.45 | 83.46 |
| 664 | 1193.89 | 83.60 |
| 665 | 1195.33 | 83.77 |
| 666 | 1196.76 | 83.93 |
| 667 | 1198.20 | 84.05 |
| 668 | 1199.63 | 84.18 |
| 669 | 1201.07 | 84.31 |
| 670 | 1202.51 | 84.45 |
| 671 | 1203.94 | 84.60 |
| 672 | 1205.38 | 84.72 |
| 673 | 1206.81 | 84.82 |
| 674 | 1208.25 | 84.93 |
| 675 | 1209.69 | 84.99 |
| 676 | 1211.12 | 85.03 |

Comment:

## Weir Cross Section: X-0360W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 47.94 |
| 1 | 1.70 | 47.99 |
| 2 | 3.40 | 47.98 |
| 3 | 5.11 | 47.97 |
| 4 | 6.81 | 47.96 |
| 5 | 8.51 | 47.92 |
| 6 | 10.21 | 47.85 |
| 7 | 11.92 | 47.81 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 8 | 13.62 | 47.85 |
| 9 | 15.60 | 47.95 |
| 10 | 17.58 | 48.05 |
| 11 | 19.55 | 48.15 |
| 12 | 21.53 | 48.26 |
| 13 | 23.51 | 48.42 |
| 14 | 25.49 | 48.60 |
| 15 | 27.47 | 48.80 |
| 16 | 29.45 | 48.99 |
| 17 | 31.43 | 49.17 |
| 18 | 33.41 | 49.36 |
| 19 | 35.39 | 49.53 |
| 20 | 37.36 | 49.67 |
| 21 | 39.34 | 49.85 |
| 22 | 41.32 | 50.14 |
| 23 | 43.30 | 50.07 |
| 24 | 45.28 | 49.81 |
| 25 | 47.69 | 49.64 |
| 26 | 50.11 | 49.29 |
| 27 | 52.52 | 48.70 |
| 28 | 54.93 | 48.01 |
| 29 | 57.35 | 47.77 |
| 30 | 59.76 | 47.92 |
| 31 | 62.17 | 48.09 |
| 32 | 64.59 | 48.29 |
| 33 | 67.00 | 48.51 |
| 34 | 69.41 | 48.78 |
| 35 | 71.83 | 48.86 |
| 36 | 74.24 | 48.90 |
| 37 | 76.65 | 49.28 |
| 38 | 79.07 | 50.00 |
| 39 | 81.48 | 50.50 |
| 40 | 83.90 | 50.02 |
| 41 | 86.33 | 49.84 |
| 42 | 88.77 | 49.80 |
| 43 | 91.20 | 49.64 |
| 44 | 93.64 | 49.37 |
| 45 | 94.91 | 49.22 |
| 46 | 96.19 | 49.06 |
| 47 | 97.46 | 48.90 |
| 48 | 98.74 | 48.75 |
| 49 | 100.01 | 48.59 |
| 50 | 101.29 | 48.43 |
| 51 | 102.56 | 48.27 |
| 52 | 103.84 | 48.14 |
| 53 | 105.11 | 48.03 |
| 54 | 106.39 | 47.93 |
| 55 | 107.66 | 47.83 |
| 56 | 108.94 | 47.73 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 57 | 110.21 | 47.64 |
| 58 | 111.49 | 47.59 |
| 59 | 112.76 | 47.60 |
| 60 | 114.04 | 47.61 |
| 61 | 115.31 | 47.63 |
| 62 | 116.59 | 47.66 |
| 63 | 117.86 | 47.73 |
| 64 | 119.14 | 47.79 |
| 65 | 120.41 | 47.86 |
| 66 | 121.69 | 47.92 |
| 67 | 122.96 | 47.83 |
| 68 | 124.24 | 47.79 |
| 69 | 125.51 | 47.82 |
| 70 | 126.79 | 47.83 |
| 71 | 128.06 | 47.81 |
| 72 | 129.34 | 47.79 |
| 73 | 130.61 | 47.83 |
| 74 | 131.89 | 47.86 |
| 75 | 133.16 | 47.89 |
| 76 | 134.44 | 47.91 |
| 77 | 136.74 | 47.93 |
| 78 | 139.04 | 47.88 |
| 79 | 141.34 | 47.83 |
| 80 | 143.65 | 47.78 |
| 81 | 145.95 | 47.73 |
| 82 | 148.25 | 47.67 |
| 83 | 150.56 | 47.60 |
| 84 | 152.86 | 47.54 |
| 85 | 155.16 | 47.48 |
| 86 | 157.47 | 47.33 |
| 87 | 159.77 | 47.11 |
| 88 | 162.07 | 47.15 |
| 89 | 164.38 | 47.58 |
| 90 | 166.68 | 47.98 |
| 91 | 168.98 | 48.20 |
| 92 | 171.28 | 48.31 |
| 93 | 173.27 | 48.18 |
| 94 | 175.26 | 47.89 |
| 95 | 177.25 | 47.63 |
| 96 | 179.23 | 47.52 |
| 97 | 181.22 | 47.63 |
| 98 | 183.21 | 48.04 |
| 99 | 185.19 | 48.05 |
| 100 | 187.18 | 48.04 |
| 101 | 189.17 | 48.07 |
| 102 | 191.15 | 48.10 |
| 103 | 193.14 | 48.05 |
| 104 | 195.13 | 47.86 |
| 105 | 197.11 | 47.64 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 106 | 199.10 | 47.56 |
| 107 | 201.09 | 47.70 |
| 108 | 203.08 | 48.05 |
| 109 | 204.89 | 47.84 |
| 110 | 206.70 | 47.59 |
| 111 | 208.51 | 47.68 |
| 112 | 210.32 | 47.87 |
| 113 | 212.13 | 48.17 |
| 114 | 213.94 | 48.68 |
| 115 | 215.75 | 48.96 |
| 116 | 217.56 | 48.84 |
| 117 | 219.53 | 49.18 |
| 118 | 221.51 | 49.49 |
| 119 | 223.48 | 49.88 |
| 120 | 225.46 | 49.94 |
| 121 | 227.17 | 49.47 |
| 122 | 228.89 | 49.04 |
| 123 | 230.61 | 48.73 |
| 124 | 232.32 | 48.34 |
| 125 | 234.04 | 48.09 |
| 126 | 235.76 | 47.94 |
| 127 | 237.47 | 47.75 |
| 128 | 239.19 | 47.54 |
| 129 | 240.90 | 47.25 |
| 130 | 242.62 | 47.17 |
| 131 | 244.34 | 47.55 |
| 132 | 246.05 | 48.05 |
| 133 | 247.77 | 48.50 |
| 134 | 249.49 | 48.74 |
| 135 | 251.20 | 48.60 |
| 136 | 252.92 | 48.59 |
| 137 | 254.20 | 48.43 |
| 138 | 255.47 | 48.26 |
| 139 | 256.75 | 47.96 |
| 140 | 258.03 | 47.76 |
| 141 | 259.30 | 48.05 |
| 142 | 260.58 | 48.36 |
| 143 | 261.86 | 48.72 |
| 144 | 263.14 | 49.03 |
| 145 | 265.37 | 49.23 |
| 146 | 267.61 | 48.83 |
| 147 | 269.85 | 48.88 |
| 148 | 272.09 | 49.34 |
| 149 | 274.33 | 49.74 |
| 150 | 276.57 | 49.80 |
| 151 | 278.81 | 49.64 |
| 152 | 281.04 | 49.38 |
| 153 | 283.06 | 49.16 |
| 154 | 285.07 | 48.86 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 155 | 287.08 | 48.82 |
| 156 | 289.09 | 48.81 |
| 157 | 291.10 | 49.05 |
| 158 | 293.12 | 49.06 |
| 159 | 295.13 | 48.88 |
| 160 | 297.14 | 48.59 |
| 161 | 299.15 | 48.41 |
| 162 | 301.16 | 48.48 |
| 163 | 303.18 | 48.75 |
| 164 | 305.19 | 49.26 |
| 165 | 307.20 | 49.92 |
| 166 | 309.21 | 50.81 |
| 167 | 311.22 | 51.46 |
| 168 | 313.24 | 51.90 |
| 169 | 315.52 | 51.62 |
| 170 | 317.79 | 51.05 |
| 171 | 320.07 | 50.98 |
| 172 | 322.35 | 50.90 |
| 173 | 324.63 | 50.63 |
| 174 | 326.91 | 50.48 |
| 175 | 329.19 | 50.45 |
| 176 | 331.47 | 50.19 |
| 177 | 333.76 | 50.04 |
| 178 | 336.06 | 50.09 |
| 179 | 338.35 | 50.19 |
| 180 | 340.64 | 50.17 |
| 181 | 342.94 | 49.97 |
| 182 | 345.23 | 49.74 |
| 183 | 347.53 | 49.90 |
| 184 | 349.82 | 49.94 |
| 185 | 352.08 | 49.79 |
| 186 | 354.33 | 49.60 |
| 187 | 356.59 | 49.38 |
| 188 | 358.84 | 49.14 |
| 189 | 361.10 | 49.35 |
| 190 | 363.36 | 49.41 |
| 191 | 365.61 | 49.53 |
| 192 | 367.87 | 49.66 |
| 193 | 370.12 | 49.68 |
| 194 | 372.38 | 49.45 |
| 195 | 374.64 | 48.85 |
| 196 | 376.89 | 48.39 |
| 197 | 379.15 | 48.53 |
| 198 | 381.40 | 49.30 |
| 199 | 383.66 | 50.22 |
| 200 | 385.92 | 50.90 |
| 201 | 388.31 | 50.77 |
| 202 | 390.70 | 50.38 |
| 203 | 393.10 | 49.73 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 204 | 395.49 | 49.52 |
| 205 | 397.88 | 49.59 |
| 206 | 400.28 | 49.63 |
| 207 | 402.67 | 49.69 |
| 208 | 405.06 | 49.75 |
| 209 | 406.56 | 49.74 |
| 210 | 408.05 | 49.67 |
| 211 | 409.54 | 49.60 |
| 212 | 411.04 | 49.45 |
| 213 | 412.53 | 49.25 |
| 214 | 414.02 | 49.10 |
| 215 | 415.52 | 48.89 |
| 216 | 417.01 | 48.69 |
| 217 | 418.50 | 48.52 |
| 218 | 420.00 | 48.43 |
| 219 | 421.49 | 48.47 |
| 220 | 422.98 | 48.53 |
| 221 | 424.48 | 48.63 |
| 222 | 425.97 | 48.78 |
| 223 | 427.46 | 48.88 |
| 224 | 428.96 | 48.88 |
| 225 | 430.56 | 48.91 |
| 226 | 432.17 | 48.96 |
| 227 | 433.78 | 49.04 |
| 228 | 435.39 | 49.11 |
| 229 | 436.99 | 49.15 |
| 230 | 438.60 | 49.19 |
| 231 | 440.21 | 49.17 |
| 232 | 441.82 | 49.04 |
| 233 | 443.77 | 49.30 |
| 234 | 445.72 | 49.29 |
| 235 | 447.67 | 49.01 |
| 236 | 449.62 | 48.71 |
| 237 | 451.58 | 48.41 |
| 238 | 453.53 | 48.05 |
| 239 | 455.48 | 48.16 |
| 240 | 457.43 | 48.33 |
| 241 | 459.38 | 48.43 |
| 242 | 461.34 | 48.44 |
| 243 | 463.29 | 48.62 |
| 244 | 465.24 | 49.08 |
| 245 | 467.19 | 49.40 |
| 246 | 469.14 | 49.77 |
| 247 | 471.10 | 49.97 |
| 248 | 473.05 | 50.01 |
| 249 | 475.44 | 50.15 |
| 250 | 477.82 | 50.16 |
| 251 | 480.21 | 50.17 |
| 252 | 482.60 | 50.31 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 253 | 484.99 | 50.49 |
| 254 | 487.38 | 50.58 |
| 255 | 489.76 | 50.61 |
| 256 | 492.15 | 50.52 |
| 257 | 493.85 | 50.40 |
| 258 | 495.54 | 50.20 |
| 259 | 497.24 | 49.97 |
| 260 | 498.93 | 49.88 |
| 261 | 500.63 | 49.77 |
| 262 | 502.32 | 49.67 |
| 263 | 504.02 | 49.58 |
| 264 | 505.71 | 49.36 |
| 265 | 507.41 | 49.11 |
| 266 | 509.10 | 48.86 |
| 267 | 510.80 | 48.65 |
| 268 | 512.49 | 48.46 |
| 269 | 514.19 | 48.29 |
| 270 | 515.88 | 48.27 |
| 271 | 517.58 | 48.19 |
| 272 | 519.27 | 48.17 |
| 273 | 520.97 | 48.22 |
| 274 | 522.66 | 48.26 |
| 275 | 524.36 | 48.30 |
| 276 | 526.05 | 48.26 |
| 277 | 527.75 | 48.27 |
| 278 | 529.44 | 48.21 |
| 279 | 531.14 | 48.09 |
| 280 | 532.83 | 48.03 |
| 281 | 534.53 | 48.10 |
| 282 | 536.22 | 48.21 |
| 283 | 537.92 | 48.30 |
| 284 | 539.61 | 48.37 |
| 285 | 541.31 | 48.39 |
| 286 | 543.00 | 48.37 |
| 287 | 544.70 | 48.34 |
| 288 | 546.39 | 48.36 |
| 289 | 548.04 | 48.42 |
| 290 | 549.69 | 48.42 |
| 291 | 551.35 | 48.41 |
| 292 | 553.00 | 48.41 |
| 293 | 554.65 | 48.41 |
| 294 | 556.30 | 48.41 |
| 295 | 557.95 | 48.40 |
| 296 | 559.60 | 48.40 |
| 297 | 561.25 | 48.38 |
| 298 | 562.91 | 48.33 |
| 299 | 564.56 | 48.30 |
| 300 | 566.21 | 48.28 |
| 301 | 567.86 | 48.30 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 302 | 569.51 | 48.32 |
| 303 | 571.16 | 48.33 |
| 304 | 572.81 | 48.32 |
| 305 | 574.47 | 48.30 |
| 306 | 576.12 | 48.25 |
| 307 | 577.77 | 48.15 |
| 308 | 579.42 | 48.10 |
| 309 | 581.07 | 48.07 |
| 310 | 582.72 | 48.40 |
| 311 | 584.38 | 48.92 |
| 312 | 586.03 | 49.54 |
| 313 | 587.68 | 49.89 |
| 314 | 589.33 | 49.95 |
| 315 | 590.98 | 49.83 |
| 316 | 592.63 | 49.92 |
| 317 | 594.28 | 50.09 |
| 318 | 595.94 | 50.14 |
| 319 | 597.59 | 50.17 |
| 320 | 599.24 | 50.14 |
| 321 | 600.58 | 50.08 |
| 322 | 601.91 | 50.01 |
| 323 | 603.25 | 49.96 |
| 324 | 604.59 | 49.90 |
| 325 | 605.93 | 49.82 |
| 326 | 607.26 | 49.76 |
| 327 | 608.60 | 49.72 |
| 328 | 609.94 | 49.69 |
| 329 | 611.27 | 49.66 |
| 330 | 612.61 | 49.67 |
| 331 | 613.95 | 49.70 |
| 332 | 615.29 | 49.74 |
| 333 | 616.62 | 49.79 |
| 334 | 617.96 | 49.87 |
| 335 | 619.30 | 49.94 |
| 336 | 620.64 | 49.77 |
| 337 | 621.97 | 49.63 |
| 338 | 623.31 | 49.55 |
| 339 | 624.65 | 49.47 |
| 340 | 625.98 | 49.39 |
| 341 | 627.32 | 49.32 |
| 342 | 628.66 | 49.25 |
| 343 | 630.00 | 49.17 |
| 344 | 631.33 | 49.10 |
| 345 | 632.67 | 49.03 |
| 346 | 634.01 | 48.96 |
| 347 | 635.35 | 48.89 |
| 348 | 636.68 | 48.82 |
| 349 | 638.02 | 48.76 |
| 350 | 639.36 | 48.70 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 351 | 640.69 | 48.67 |
| 352 | 642.03 | 48.72 |
| 353 | 643.37 | 49.08 |
| 354 | 644.71 | 49.35 |
| 355 | 646.04 | 49.46 |
| 356 | 647.38 | 49.41 |
| 357 | 648.72 | 49.20 |
| 358 | 650.06 | 49.02 |
| 359 | 651.39 | 48.86 |
| 360 | 652.73 | 48.75 |
| 361 | 654.07 | 48.64 |
| 362 | 655.40 | 48.57 |
| 363 | 656.74 | 48.51 |
| 364 | 658.08 | 48.51 |
| 365 | 659.42 | 48.49 |
| 366 | 660.75 | 48.44 |
| 367 | 662.09 | 48.40 |
| 368 | 663.43 | 48.35 |
| 369 | 664.77 | 48.33 |
| 370 | 666.10 | 48.33 |
| 371 | 667.44 | 48.35 |
| 372 | 668.78 | 48.39 |
| 373 | 670.11 | 48.43 |
| 374 | 671.45 | 48.47 |
| 375 | 672.79 | 48.44 |
| 376 | 674.13 | 48.39 |
| 377 | 675.46 | 48.37 |
| 378 | 676.80 | 48.34 |
| 379 | 678.14 | 48.34 |
| 380 | 679.48 | 48.33 |
| 381 | 680.81 | 48.29 |
| 382 | 682.15 | 48.27 |
| 383 | 683.49 | 48.31 |
| 384 | 684.82 | 48.36 |

Comment:

## Weir Cross Section: X-0370W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 46.86 |
| 1 | 1.55 | 46.69 |
| 2 | 3.11 | 46.56 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 3 | 4.66 | 46.49 |
| 4 | 6.22 | 46.40 |
| 5 | 7.77 | 46.29 |
| 6 | 9.33 | 46.21 |
| 7 | 10.88 | 46.06 |
| 8 | 12.44 | 46.04 |
| 9 | 13.99 | 46.15 |
| 10 | 15.54 | 46.32 |
| 11 | 17.10 | 46.54 |
| 12 | 18.65 | 46.90 |
| 13 | 20.21 | 47.31 |
| 14 | 21.76 | 47.29 |
| 15 | 23.32 | 47.30 |
| 16 | 24.87 | 47.29 |
| 17 | 26.36 | 47.25 |
| 18 | 27.85 | 46.96 |
| 19 | 29.34 | 46.68 |
| 20 | 30.83 | 46.42 |
| 21 | 32.32 | 46.30 |
| 22 | 33.81 | 46.27 |
| 23 | 35.30 | 46.45 |
| 24 | 36.79 | 46.65 |
| 25 | 38.28 | 46.77 |
| 26 | 39.77 | 46.85 |
| 27 | 41.26 | 46.78 |
| 28 | 42.75 | 46.64 |
| 29 | 44.24 | 46.52 |
| 30 | 45.73 | 46.47 |
| 31 | 47.22 | 46.43 |
| 32 | 48.71 | 46.47 |
| 33 | 50.20 | 46.53 |
| 34 | 51.69 | 46.60 |
| 35 | 53.18 | 46.69 |
| 36 | 54.67 | 46.79 |
| 37 | 56.16 | 46.85 |
| 38 | 57.65 | 46.91 |
| 39 | 59.14 | 46.69 |
| 40 | 60.63 | 46.47 |
| 41 | 62.12 | 46.25 |
| 42 | 63.61 | 46.25 |
| 43 | 65.10 | 46.44 |
| 44 | 66.59 | 46.60 |
| 45 | 68.08 | 46.70 |
| 46 | 69.57 | 46.55 |
| 47 | 71.06 | 46.39 |
| 48 | 72.55 | 46.29 |
| 49 | 74.95 | 46.53 |
| 50 | 77.34 | 46.52 |
| 51 | 79.74 | 46.25 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 52 | 82.14 | 46.11 |
| 53 | 84.53 | 46.01 |
| 54 | 86.93 | 46.07 |
| 55 | 89.33 | 46.24 |
| 56 | 91.72 | 46.34 |
| 57 | 94.12 | 46.38 |
| 58 | 96.52 | 46.41 |
| 59 | 98.91 | 46.38 |
| 60 | 101.31 | 46.40 |
| 61 | 103.71 | 46.55 |
| 62 | 106.10 | 46.75 |
| 63 | 108.50 | 46.58 |
| 64 | 110.90 | 46.30 |
| 65 | 112.18 | 46.43 |
| 66 | 113.46 | 46.52 |
| 67 | 114.74 | 46.53 |
| 68 | 116.03 | 46.44 |
| 69 | 117.31 | 46.20 |
| 70 | 118.59 | 46.03 |
| 71 | 119.88 | 45.92 |
| 72 | 121.16 | 45.91 |
| 73 | 122.44 | 45.98 |
| 74 | 123.73 | 46.09 |
| 75 | 125.01 | 46.22 |
| 76 | 126.29 | 46.28 |
| 77 | 127.57 | 46.30 |
| 78 | 128.86 | 46.33 |
| 79 | 130.14 | 46.37 |
| 80 | 131.42 | 46.56 |
| 81 | 132.81 | 46.84 |
| 82 | 134.20 | 47.04 |
| 83 | 135.58 | 47.23 |
| 84 | 136.97 | 47.44 |
| 85 | 138.36 | 47.58 |
| 86 | 139.75 | 47.51 |
| 87 | 141.13 | 47.29 |
| 88 | 142.52 | 46.89 |
| 89 | 143.91 | 46.67 |
| 90 | 145.29 | 46.55 |
| 91 | 146.68 | 46.53 |
| 92 | 148.07 | 46.53 |
| 93 | 149.45 | 46.49 |
| 94 | 150.84 | 46.43 |
| 95 | 152.23 | 46.29 |
| 96 | 153.62 | 46.21 |
| 97 | 155.00 | 46.24 |
| 98 | 156.39 | 46.25 |
| 99 | 157.78 | 46.26 |
| 100 | 159.16 | 46.30 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 101 | 160.55 | 46.33 |
| 102 | 161.94 | 46.36 |
| 103 | 163.32 | 46.37 |
| 104 | 164.71 | 46.37 |
| 105 | 166.10 | 46.49 |
| 106 | 167.49 | 46.78 |
| 107 | 168.87 | 47.08 |
| 108 | 170.26 | 47.40 |
| 109 | 171.65 | 47.64 |
| 110 | 173.03 | 47.87 |
| 111 | 174.42 | 47.66 |
| 112 | 175.81 | 47.45 |
| 113 | 177.26 | 47.16 |
| 114 | 178.72 | 47.00 |
| 115 | 180.18 | 46.97 |
| 116 | 181.63 | 47.16 |
| 117 | 183.09 | 47.45 |
| 118 | 184.54 | 47.56 |
| 119 | 186.00 | 47.68 |
| 120 | 187.46 | 47.78 |
| 121 | 188.91 | 47.89 |
| 122 | 190.37 | 48.00 |
| 123 | 191.82 | 48.12 |
| 124 | 193.28 | 48.21 |
| 125 | 194.74 | 47.98 |
| 126 | 196.19 | 47.75 |
| 127 | 197.65 | 47.49 |
| 128 | 199.10 | 47.48 |
| 129 | 200.56 | 47.56 |
| 130 | 202.02 | 48.02 |
| 131 | 203.47 | 48.42 |
| 132 | 204.93 | 48.32 |
| 133 | 206.38 | 48.24 |
| 134 | 207.84 | 48.15 |
| 135 | 209.30 | 48.15 |
| 136 | 210.75 | 48.20 |
| 137 | 212.21 | 48.34 |
| 138 | 213.66 | 48.46 |
| 139 | 215.12 | 48.57 |
| 140 | 216.58 | 48.59 |
| 141 | 218.03 | 48.57 |
| 142 | 219.49 | 48.77 |
| 143 | 220.94 | 49.00 |
| 144 | 222.40 | 49.14 |
| 145 | 224.08 | 49.34 |
| 146 | 225.75 | 49.12 |
| 147 | 227.43 | 48.91 |
| 148 | 229.10 | 48.89 |
| 149 | 230.78 | 48.75 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 150 | 232.46 | 48.63 |
| 151 | 234.13 | 48.50 |
| 152 | 235.81 | 48.28 |
| 153 | 237.48 | 48.22 |
| 154 | 239.16 | 48.27 |
| 155 | 240.84 | 48.31 |
| 156 | 242.51 | 48.35 |
| 157 | 244.19 | 48.27 |
| 158 | 245.86 | 48.18 |
| 159 | 247.54 | 48.12 |
| 160 | 249.22 | 48.02 |
| 161 | 250.89 | 48.08 |
| 162 | 252.57 | 48.21 |
| 163 | 254.24 | 48.42 |
| 164 | 255.92 | 48.59 |
| 165 | 257.60 | 48.54 |
| 166 | 259.27 | 48.54 |
| 167 | 260.95 | 48.53 |
| 168 | 262.62 | 48.50 |
| 169 | 264.30 | 48.61 |
| 170 | 265.97 | 48.80 |
| 171 | 267.65 | 48.91 |
| 172 | 269.33 | 48.91 |
| 173 | 271.00 | 48.78 |
| 174 | 272.68 | 48.76 |
| 175 | 274.35 | 48.76 |
| 176 | 276.03 | 48.96 |
| 177 | 278.00 | 48.97 |
| 178 | 279.97 | 48.86 |
| 179 | 281.94 | 48.61 |
| 180 | 283.91 | 48.31 |
| 181 | 285.88 | 48.08 |
| 182 | 287.85 | 47.60 |
| 183 | 289.81 | 47.09 |
| 184 | 291.78 | 46.72 |
| 185 | 293.75 | 46.63 |
| 186 | 295.72 | 46.38 |
| 187 | 297.69 | 46.20 |
| 188 | 299.66 | 46.17 |
| 189 | 301.63 | 46.35 |
| 190 | 303.60 | 46.75 |
| 191 | 305.57 | 47.10 |
| 192 | 307.54 | 47.25 |
| 193 | 309.51 | 47.32 |
| 194 | 311.48 | 47.48 |
| 195 | 313.44 | 47.32 |
| 196 | 315.41 | 47.13 |
| 197 | 317.38 | 46.93 |
| 198 | 319.35 | 46.74 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 199 | 321.32 | 46.58 |
| 200 | 323.29 | 46.44 |
| 201 | 325.26 | 46.55 |
| 202 | 327.23 | 46.73 |
| 203 | 329.20 | 46.85 |
| 204 | 331.17 | 46.91 |
| 205 | 333.14 | 46.97 |
| 206 | 335.10 | 47.02 |
| 207 | 337.07 | 47.08 |
| 208 | 339.04 | 47.14 |
| 209 | 340.52 | 47.14 |
| 210 | 342.00 | 47.19 |
| 211 | 343.48 | 47.30 |
| 212 | 344.96 | 47.47 |
| 213 | 346.44 | 47.82 |
| 214 | 347.92 | 48.25 |
| 215 | 349.40 | 48.49 |
| 216 | 350.88 | 48.74 |
| 217 | 352.36 | 48.98 |
| 218 | 353.84 | 49.35 |
| 219 | 355.32 | 49.70 |
| 220 | 356.80 | 49.96 |
| 221 | 358.28 | 50.31 |
| 222 | 359.76 | 50.54 |
| 223 | 361.24 | 50.62 |
| 224 | 362.72 | 50.58 |
| 225 | 364.19 | 50.77 |
| 226 | 365.66 | 50.97 |
| 227 | 367.14 | 51.02 |
| 228 | 368.61 | 50.90 |
| 229 | 370.09 | 50.28 |
| 230 | 371.56 | 49.63 |
| 231 | 373.04 | 49.10 |
| 232 | 374.51 | 48.77 |
| 233 | 375.99 | 48.73 |
| 234 | 377.46 | 48.80 |
| 235 | 378.93 | 48.68 |
| 236 | 380.41 | 48.37 |
| 237 | 381.88 | 48.12 |
| 238 | 383.36 | 47.81 |
| 239 | 384.83 | 47.55 |
| 240 | 386.31 | 47.52 |
| 241 | 387.78 | 47.52 |
| 242 | 389.26 | 47.50 |
| 243 | 390.73 | 47.46 |
| 244 | 392.20 | 47.41 |
| 245 | 393.68 | 47.49 |
| 246 | 395.15 | 47.66 |
| 247 | 396.63 | 47.80 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 248 | 398.10 | 48.01 |
| 249 | 399.58 | 48.38 |
| 250 | 401.05 | 48.64 |
| 251 | 402.53 | 48.76 |
| 252 | 404.00 | 48.85 |
| 253 | 405.47 | 48.59 |
| 254 | 406.95 | 48.25 |
| 255 | 408.42 | 48.08 |
| 256 | 409.90 | 48.16 |
| 257 | 411.30 | 48.40 |
| 258 | 412.71 | 48.65 |
| 259 | 414.11 | 48.93 |
| 260 | 415.51 | 49.26 |
| 261 | 417.89 | 49.68 |
| 262 | 420.26 | 50.20 |
| 263 | 422.64 | 50.40 |
| 264 | 425.01 | 49.73 |
| 265 | 427.39 | 48.99 |
| 266 | 429.76 | 49.29 |
| 267 | 432.14 | 49.84 |
| 268 | 434.51 | 50.32 |
| 269 | 436.89 | 50.61 |
| 270 | 439.26 | 50.72 |
| 271 | 441.64 | 50.71 |
| 272 | 444.01 | 50.69 |
| 273 | 446.39 | 51.10 |
| 274 | 448.76 | 51.83 |
| 275 | 451.14 | 51.95 |
| 276 | 453.51 | 51.49 |
| 277 | 455.56 | 51.13 |
| 278 | 457.60 | 50.60 |
| 279 | 459.65 | 50.16 |
| 280 | 461.70 | 50.16 |
| 281 | 463.74 | 50.26 |
| 282 | 465.79 | 50.36 |
| 283 | 467.84 | 50.42 |
| 284 | 469.88 | 50.40 |
| 285 | 471.93 | 50.30 |
| 286 | 473.98 | 50.21 |
| 287 | 476.02 | 50.33 |
| 288 | 478.07 | 50.56 |
| 289 | 480.11 | 50.66 |
| 290 | 482.16 | 50.49 |
| 291 | 484.21 | 50.25 |
| 292 | 486.25 | 50.14 |
| 293 | 487.77 | 50.27 |
| 294 | 489.29 | 50.43 |
| 295 | 490.80 | 50.59 |
| 296 | 492.32 | 50.70 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 297 | 493.84 | 50.78 |
| 298 | 495.35 | 50.81 |
| 299 | 496.87 | 50.90 |
| 300 | 498.38 | 51.00 |
| 301 | 499.90 | 51.02 |
| 302 | 501.42 | 50.93 |
| 303 | 502.93 | 50.57 |
| 304 | 504.45 | 50.18 |
| 305 | 505.97 | 49.98 |
| 306 | 507.48 | 49.88 |
| 307 | 509.00 | 49.88 |
| 308 | 510.52 | 50.15 |
| 309 | 511.80 | 50.22 |
| 310 | 513.08 | 50.08 |
| 311 | 514.37 | 49.83 |
| 312 | 515.65 | 49.35 |
| 313 | 516.93 | 48.74 |
| 314 | 518.21 | 47.95 |
| 315 | 519.50 | 47.38 |
| 316 | 520.78 | 47.11 |
| 317 | 522.06 | 47.00 |
| 318 | 523.35 | 47.05 |
| 319 | 524.63 | 47.08 |
| 320 | 525.91 | 47.11 |
| 321 | 527.19 | 47.13 |
| 322 | 528.48 | 47.16 |
| 323 | 529.76 | 47.17 |
| 324 | 531.04 | 47.17 |
| 325 | 533.16 | 47.30 |
| 326 | 535.27 | 47.44 |
| 327 | 537.39 | 47.61 |
| 328 | 539.51 | 47.89 |
| 329 | 541.62 | 48.66 |
| 330 | 543.74 | 49.35 |
| 331 | 545.85 | 49.09 |
| 332 | 547.97 | 48.09 |
| 333 | 550.08 | 47.23 |
| 334 | 552.20 | 47.20 |
| 335 | 554.32 | 46.92 |
| 336 | 556.43 | 47.10 |
| 337 | 558.55 | 47.45 |
| 338 | 560.66 | 47.95 |
| 339 | 562.78 | 48.46 |
| 340 | 564.89 | 48.65 |
| 341 | 567.01 | 48.39 |
| 342 | 569.12 | 48.18 |
| 343 | 571.24 | 48.12 |
| 344 | 573.36 | 48.39 |
| 345 | 575.47 | 48.43 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 346 | 577.59 | 47.64 |
| 347 | 579.70 | 46.36 |
| 348 | 581.82 | 46.02 |
| 349 | 583.93 | 45.79 |
| 350 | 586.05 | 45.66 |
| 351 | 588.17 | 45.68 |
| 352 | 590.28 | 45.82 |
| 353 | 592.40 | 45.96 |
| 354 | 594.51 | 46.27 |
| 355 | 596.63 | 46.33 |
| 356 | 598.74 | 46.32 |
| 357 | 600.21 | 46.39 |
| 358 | 601.68 | 46.43 |
| 359 | 603.15 | 46.43 |
| 360 | 604.61 | 46.39 |
| 361 | 606.08 | 46.34 |
| 362 | 607.55 | 46.17 |
| 363 | 609.02 | 46.15 |
| 364 | 610.48 | 46.27 |
| 365 | 611.95 | 46.31 |
| 366 | 613.42 | 46.35 |
| 367 | 614.88 | 46.30 |
| 368 | 616.35 | 46.24 |
| 369 | 617.82 | 46.28 |
| 370 | 619.29 | 46.41 |
| 371 | 620.75 | 46.48 |
| 372 | 622.22 | 46.48 |
| 373 | 624.45 | 46.39 |
| 374 | 626.67 | 46.24 |
| 375 | 628.89 | 46.24 |
| 376 | 631.12 | 46.38 |
| 377 | 633.34 | 46.44 |
| 378 | 635.57 | 46.43 |
| 379 | 637.79 | 46.36 |
| 380 | 640.01 | 46.46 |
| 381 | 642.24 | 46.79 |
| 382 | 644.46 | 46.87 |
| 383 | 646.69 | 46.87 |
| 384 | 648.91 | 46.89 |
| 385 | 651.13 | 47.16 |
| 386 | 653.36 | 47.21 |
| 387 | 655.58 | 47.14 |
| 388 | 657.81 | 47.01 |
| 389 | 660.01 | 46.93 |
| 390 | 662.21 | 46.45 |
| 391 | 664.41 | 46.31 |
| 392 | 666.61 | 46.23 |
| 393 | 668.81 | 46.11 |
| 394 | 671.01 | 45.97 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 395 | 673.21 | 45.95 |
| 396 | 675.41 | 45.97 |
| 397 | 677.61 | 45.93 |
| 398 | 679.81 | 45.84 |
| 399 | 682.01 | 45.90 |
| 400 | 684.21 | 46.11 |
| 401 | 686.41 | 46.17 |
| 402 | 688.62 | 46.13 |
| 403 | 690.82 | 46.26 |
| 404 | 693.02 | 46.48 |
| 405 | 695.47 | 46.53 |
| 406 | 697.91 | 46.39 |
| 407 | 700.36 | 46.13 |
| 408 | 702.81 | 45.95 |
| 409 | 705.26 | 45.89 |
| 410 | 707.71 | 45.83 |
| 411 | 710.16 | 45.86 |
| 412 | 712.61 | 45.96 |
| 413 | 715.06 | 46.03 |
| 414 | 717.51 | 46.09 |
| 415 | 719.95 | 46.28 |
| 416 | 722.40 | 45.95 |
| 417 | 724.85 | 45.68 |
| 418 | 727.30 | 45.77 |
| 419 | 729.75 | 46.11 |
| 420 | 732.20 | 46.30 |
| 421 | 734.49 | 46.37 |
| 422 | 736.78 | 46.42 |
| 423 | 739.08 | 46.43 |
| 424 | 741.37 | 46.34 |
| 425 | 743.66 | 46.12 |
| 426 | 745.96 | 45.82 |
| 427 | 748.25 | 45.64 |
| 428 | 750.54 | 45.62 |
| 429 | 752.84 | 45.85 |
| 430 | 755.13 | 46.46 |
| 431 | 757.42 | 46.61 |
| 432 | 759.72 | 46.31 |
| 433 | 762.01 | 46.07 |
| 434 | 764.30 | 46.31 |
| 435 | 766.60 | 46.70 |
| 436 | 768.89 | 46.72 |
| 437 | 771.18 | 46.75 |
| 438 | 773.47 | 46.60 |
| 439 | 775.77 | 46.46 |
| 440 | 778.06 | 46.47 |
| 441 | 780.35 | 46.59 |
| 442 | 782.65 | 46.67 |
| 443 | 784.94 | 46.55 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 444 | 787.23 | 46.37 |
| 445 | 789.53 | 46.43 |
| 446 | 791.82 | 46.85 |
| 447 | 794.11 | 47.13 |
| 448 | 796.41 | 47.31 |
| 449 | 798.70 | 47.16 |
| 450 | 800.99 | 46.90 |
| 451 | 803.29 | 46.79 |
| 452 | 805.58 | 46.75 |
| 453 | 807.78 | 46.77 |
| 454 | 809.99 | 46.84 |
| 455 | 812.19 | 46.68 |
| 456 | 814.40 | 46.65 |
| 457 | 816.60 | 46.62 |
| 458 | 818.80 | 46.49 |
| 459 | 821.01 | 46.43 |
| 460 | 823.21 | 46.36 |
| 461 | 825.42 | 46.18 |
| 462 | 827.62 | 45.99 |
| 463 | 829.82 | 45.99 |
| 464 | 832.03 | 46.29 |
| 465 | 834.23 | 46.46 |
| 466 | 836.44 | 46.33 |
| 467 | 838.64 | 46.31 |
| 468 | 840.85 | 46.53 |
| 469 | 843.05 | 47.01 |
| 470 | 845.25 | 46.90 |
| 471 | 847.46 | 46.23 |
| 472 | 849.66 | 45.88 |
| 473 | 851.87 | 45.92 |
| 474 | 854.07 | 46.00 |
| 475 | 856.27 | 46.04 |
| 476 | 858.48 | 46.08 |
| 477 | 860.68 | 46.07 |
| 478 | 862.89 | 46.06 |
| 479 | 865.09 | 46.04 |
| 480 | 867.30 | 45.98 |
| 481 | 869.50 | 46.00 |
| 482 | 871.70 | 46.06 |
| 483 | 873.91 | 46.09 |
| 484 | 876.11 | 46.11 |
| 485 | 878.32 | 46.21 |
| 486 | 880.52 | 46.27 |
| 487 | 882.72 | 46.35 |
| 488 | 884.93 | 46.29 |
| 489 | 887.13 | 46.20 |
| 490 | 889.34 | 46.19 |
| 491 | 891.54 | 46.31 |
| 492 | 893.75 | 46.43 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 493 | 895.95 | 46.39 |
| 494 | 898.15 | 46.42 |
| 495 | 900.36 | 46.48 |
| 496 | 902.56 | 46.26 |
| 497 | 904.77 | 45.97 |
| 498 | 906.97 | 45.81 |
| 499 | 909.17 | 45.67 |
| 500 | 911.38 | 45.55 |
| 501 | 913.58 | 45.59 |
| 502 | 915.79 | 45.60 |
| 503 | 917.99 | 45.59 |
| 504 | 920.20 | 45.60 |
| 505 | 922.40 | 45.73 |
| 506 | 924.60 | 45.87 |
| 507 | 926.81 | 45.96 |
| 508 | 929.01 | 45.95 |
| 509 | 931.22 | 45.81 |
| 510 | 933.42 | 45.81 |
| 511 | 935.63 | 45.83 |
| 512 | 937.83 | 45.82 |
| 513 | 940.03 | 45.80 |
| 514 | 942.24 | 46.20 |
| 515 | 944.44 | 46.72 |
| 516 | 946.65 | 47.24 |
| 517 | 947.96 | 47.27 |
| 518 | 949.27 | 47.07 |
| 519 | 950.58 | 46.63 |
| 520 | 951.89 | 46.29 |
| 521 | 953.20 | 46.00 |
| 522 | 954.51 | 45.71 |
| 523 | 955.82 | 45.80 |
| 524 | 957.13 | 45.92 |
| 525 | 958.44 | 46.13 |
| 526 | 959.75 | 46.26 |
| 527 | 961.06 | 46.38 |
| 528 | 962.37 | 46.51 |
| 529 | 963.68 | 46.50 |
| 530 | 964.99 | 46.47 |
| 531 | 966.30 | 46.46 |
| 532 | 967.61 | 46.45 |
| 533 | 969.21 | 46.49 |
| 534 | 970.82 | 46.53 |
| 535 | 972.43 | 46.51 |
| 536 | 974.03 | 46.40 |
| 537 | 975.64 | 46.27 |
| 538 | 977.25 | 46.10 |
| 539 | 978.85 | 46.00 |
| 540 | 980.46 | 45.98 |
| 541 | 982.07 | 46.01 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 542 | 983.67 | 46.14 |
| 543 | 985.28 | 46.23 |
| 544 | 986.89 | 46.36 |
| 545 | 988.50 | 46.76 |
| 546 | 990.10 | 47.03 |
| 547 | 991.71 | 47.05 |
| 548 | 993.32 | 46.86 |
| 549 | 995.74 | 46.20 |
| 550 | 998.16 | 46.07 |
| 551 | 1000.58 | 45.92 |
| 552 | 1003.00 | 45.97 |
| 553 | 1005.42 | 46.15 |
| 554 | 1007.84 | 46.20 |
| 555 | 1010.26 | 46.34 |
| 556 | 1012.68 | 46.37 |
| 557 | 1015.10 | 46.22 |
| 558 | 1017.52 | 45.95 |
| 559 | 1019.94 | 46.16 |
| 560 | 1022.36 | 46.34 |
| 561 | 1024.78 | 46.33 |
| 562 | 1027.21 | 46.17 |
| 563 | 1029.63 | 46.10 |
| 564 | 1032.05 | 46.02 |
| 565 | 1034.47 | 46.01 |
| 566 | 1036.89 | 46.04 |
| 567 | 1039.31 | 46.00 |
| 568 | 1041.73 | 46.00 |
| 569 | 1044.15 | 46.02 |
| 570 | 1046.57 | 46.05 |
| 571 | 1048.99 | 45.94 |
| 572 | 1051.41 | 45.74 |
| 573 | 1053.83 | 45.64 |
| 574 | 1056.25 | 45.64 |
| 575 | 1058.67 | 45.71 |
| 576 | 1061.09 | 45.71 |
| 577 | 1063.52 | 45.76 |
| 578 | 1065.94 | 46.01 |
| 579 | 1068.36 | 46.26 |
| 580 | 1070.78 | 46.40 |
| 581 | 1073.20 | 46.22 |
| 582 | 1075.62 | 46.00 |
| 583 | 1078.04 | 45.86 |
| 584 | 1080.46 | 45.86 |
| 585 | 1082.88 | 45.89 |
| 586 | 1085.30 | 45.93 |
| 587 | 1087.72 | 46.00 |
| 588 | 1090.14 | 46.04 |
| 589 | 1092.56 | 45.95 |
| 590 | 1094.98 | 45.85 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 591 | 1097.40 | 45.80 |
| 592 | 1099.83 | 45.81 |
| 593 | 1102.25 | 45.73 |
| 594 | 1104.67 | 45.66 |
| 595 | 1107.09 | 45.65 |
| 596 | 1109.51 | 45.64 |
| 597 | 1111.93 | 45.81 |
| 598 | 1114.35 | 45.98 |
| 599 | 1116.77 | 46.08 |
| 600 | 1119.19 | 46.01 |
| 601 | 1121.61 | 45.85 |
| 602 | 1124.03 | 45.63 |
| 603 | 1126.45 | 45.54 |
| 604 | 1128.87 | 45.76 |
| 605 | 1131.29 | 46.06 |
| 606 | 1133.71 | 46.41 |
| 607 | 1136.14 | 46.27 |
| 608 | 1138.56 | 46.21 |
| 609 | 1140.98 | 46.38 |
| 610 | 1143.40 | 46.52 |
| 611 | 1145.82 | 46.68 |
| 612 | 1148.24 | 46.62 |
| 613 | 1150.12 | 46.50 |
| 614 | 1152.00 | 46.37 |
| 615 | 1153.88 | 46.33 |
| 616 | 1155.77 | 46.47 |
| 617 | 1157.65 | 46.56 |
| 618 | 1159.53 | 46.43 |
| 619 | 1161.41 | 46.25 |
| 620 | 1163.29 | 46.04 |
| 621 | 1165.17 | 45.86 |
| 622 | 1167.06 | 45.70 |
| 623 | 1168.94 | 45.71 |
| 624 | 1170.82 | 45.79 |
| 625 | 1172.70 | 45.88 |
| 626 | 1174.58 | 45.75 |
| 627 | 1176.46 | 45.79 |
| 628 | 1178.35 | 45.85 |
| 629 | 1180.23 | 45.92 |
| 630 | 1182.11 | 46.05 |
| 631 | 1183.99 | 46.19 |
| 632 | 1185.87 | 46.18 |
| 633 | 1187.75 | 46.12 |
| 634 | 1189.64 | 46.15 |
| 635 | 1191.52 | 46.14 |
| 636 | 1193.40 | 46.26 |
| 637 | 1195.28 | 46.50 |
| 638 | 1197.16 | 46.74 |
| 639 | 1199.05 | 46.75 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 640 | 1200.93 | 46.60 |
| 641 | 1202.81 | 46.47 |
| 642 | 1204.69 | 46.72 |
| 643 | 1206.57 | 47.15 |
| 644 | 1208.45 | 47.66 |
| 645 | 1210.71 | 47.82 |
| 646 | 1212.96 | 47.41 |
| 647 | 1215.22 | 46.94 |
| 648 | 1217.47 | 46.49 |
| 649 | 1219.73 | 46.20 |
| 650 | 1221.98 | 46.06 |
| 651 | 1224.24 | 46.00 |
| 652 | 1226.49 | 46.02 |
| 653 | 1228.74 | 46.05 |
| 654 | 1231.00 | 46.12 |
| 655 | 1233.25 | 46.18 |
| 656 | 1235.51 | 46.49 |
| 657 | 1237.76 | 47.04 |
| 658 | 1240.02 | 47.54 |
| 659 | 1242.27 | 47.83 |
| 660 | 1244.53 | 47.99 |
| 661 | 1246.37 | 48.04 |
| 662 | 1248.22 | 47.98 |
| 663 | 1250.06 | 48.12 |
| 664 | 1251.91 | 48.35 |
| 665 | 1253.76 | 48.41 |
| 666 | 1255.60 | 48.30 |
| 667 | 1257.45 | 48.12 |
| 668 | 1259.29 | 48.07 |
| 669 | 1261.14 | 48.04 |
| 670 | 1262.98 | 48.08 |
| 671 | 1264.83 | 47.97 |
| 672 | 1266.68 | 47.84 |
| 673 | 1268.52 | 47.68 |
| 674 | 1270.37 | 47.51 |
| 675 | 1272.21 | 47.23 |
| 676 | 1274.06 | 47.00 |
| 677 | 1276.14 | 46.98 |
| 678 | 1278.22 | 47.11 |
| 679 | 1280.29 | 47.26 |
| 680 | 1282.37 | 47.41 |
| 681 | 1284.45 | 47.54 |
| 682 | 1286.53 | 47.54 |
| 683 | 1288.61 | 47.41 |
| 684 | 1290.69 | 47.36 |
| 685 | 1292.77 | 47.32 |
| 686 | 1294.84 | 47.19 |
| 687 | 1296.92 | 47.08 |
| 688 | 1299.00 | 47.14 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 689 | 1301.08 | 47.18 |
| 690 | 1303.16 | 47.41 |
| 691 | 1305.24 | 47.69 |
| 692 | 1307.31 | 47.93 |
| 693 | 1309.17 | 47.98 |
| 694 | 1311.03 | 47.61 |
| 695 | 1312.88 | 46.89 |
| 696 | 1314.74 | 46.61 |
| 697 | 1316.59 | 46.68 |
| 698 | 1318.45 | 46.88 |
| 699 | 1320.30 | 46.98 |
| 700 | 1322.16 | 47.10 |
| 701 | 1324.02 | 47.24 |
| 702 | 1325.87 | 47.32 |
| 703 | 1327.73 | 47.40 |
| 704 | 1329.58 | 47.48 |
| 705 | 1331.44 | 47.61 |
| 706 | 1333.30 | 47.74 |
| 707 | 1335.15 | 47.86 |
| 708 | 1337.01 | 47.94 |

Comment:

## Weir Cross Section: X-0380W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 46.86 |
| 1 | 1.61 | 46.67 |
| 2 | 3.22 | 46.41 |
| 3 | 4.83 | 46.12 |
| 4 | 6.44 | 45.71 |
| 5 | 8.05 | 45.39 |
| 6 | 9.65 | 45.16 |
| 7 | 11.26 | 44.96 |
| 8 | 12.87 | 44.81 |
| 9 | 14.48 | 44.76 |
| 10 | 16.09 | 44.79 |
| 11 | 17.70 | 44.92 |
| 12 | 19.31 | 45.02 |
| 13 | 20.92 | 45.12 |
| 14 | 22.53 | 45.18 |
| 15 | 24.14 | 45.26 |
| 16 | 25.74 | 45.31 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 17 | 27.36 | 45.29 |
| 18 | 28.98 | 45.27 |
| 19 | 30.60 | 45.31 |
| 20 | 32.22 | 45.33 |
| 21 | 33.84 | 45.28 |
| 22 | 35.45 | 45.18 |
| 23 | 37.07 | 45.12 |
| 24 | 38.69 | 45.10 |
| 25 | 40.31 | 45.39 |
| 26 | 41.93 | 45.63 |
| 27 | 43.54 | 45.79 |
| 28 | 45.16 | 45.90 |
| 29 | 46.78 | 46.05 |
| 30 | 48.40 | 46.21 |
| 31 | 50.02 | 46.35 |
| 32 | 51.64 | 46.50 |
| 33 | 53.83 | 46.43 |
| 34 | 56.02 | 46.37 |
| 35 | 58.20 | 46.26 |
| 36 | 60.39 | 46.15 |
| 37 | 62.58 | 46.03 |
| 38 | 64.77 | 46.13 |
| 39 | 66.96 | 46.28 |
| 40 | 69.15 | 46.47 |
| 41 | 71.34 | 46.61 |
| 42 | 73.53 | 46.64 |
| 43 | 75.72 | 46.61 |
| 44 | 77.91 | 46.54 |
| 45 | 80.10 | 46.22 |
| 46 | 82.29 | 46.18 |
| 47 | 84.48 | 46.35 |
| 48 | 86.67 | 46.51 |
| 49 | 87.92 | 46.54 |
| 50 | 89.17 | 46.59 |
| 51 | 90.42 | 46.57 |
| 52 | 91.67 | 46.53 |
| 53 | 92.93 | 46.54 |
| 54 | 94.18 | 46.62 |
| 55 | 95.43 | 46.84 |
| 56 | 96.68 | 47.15 |
| 57 | 97.93 | 47.35 |
| 58 | 99.18 | 47.41 |
| 59 | 100.43 | 47.43 |
| 60 | 101.68 | 47.49 |
| 61 | 102.93 | 47.60 |
| 62 | 104.18 | 47.74 |
| 63 | 105.43 | 47.98 |
| 64 | 106.68 | 48.33 |
| 65 | 107.93 | 48.61 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 66 | 109.19 | 48.62 |
| 67 | 110.44 | 48.54 |
| 68 | 111.69 | 48.41 |
| 69 | 112.94 | 48.25 |
| 70 | 114.19 | 48.19 |
| 71 | 115.44 | 48.16 |
| 72 | 116.69 | 48.40 |
| 73 | 117.94 | 48.78 |
| 74 | 119.19 | 48.87 |
| 75 | 120.44 | 48.89 |
| 76 | 121.69 | 48.96 |
| 77 | 122.94 | 48.98 |
| 78 | 124.19 | 48.93 |
| 79 | 125.45 | 48.89 |
| 80 | 126.70 | 48.76 |
| 81 | 128.56 | 48.52 |
| 82 | 130.43 | 48.34 |
| 83 | 132.29 | 48.00 |
| 84 | 134.16 | 47.55 |
| 85 | 136.02 | 47.18 |
| 86 | 137.89 | 46.95 |
| 87 | 139.75 | 47.24 |
| 88 | 141.62 | 47.31 |
| 89 | 143.48 | 47.24 |
| 90 | 145.35 | 47.65 |
| 91 | 147.22 | 47.77 |
| 92 | 149.08 | 47.85 |
| 93 | 150.95 | 47.92 |
| 94 | 152.81 | 48.12 |
| 95 | 154.68 | 48.21 |
| 96 | 156.54 | 47.63 |
| 97 | 158.41 | 46.94 |
| 98 | 160.27 | 46.50 |
| 99 | 162.14 | 46.67 |
| 100 | 164.00 | 46.69 |
| 101 | 165.87 | 46.68 |
| 102 | 167.73 | 46.62 |
| 103 | 169.60 | 46.47 |
| 104 | 171.47 | 46.46 |
| 105 | 173.33 | 46.56 |
| 106 | 175.20 | 46.73 |
| 107 | 177.06 | 47.12 |
| 108 | 178.93 | 47.88 |
| 109 | 180.79 | 48.07 |
| 110 | 182.66 | 47.74 |
| 111 | 184.52 | 47.39 |
| 112 | 186.39 | 47.30 |
| 113 | 188.62 | 47.22 |
| 114 | 190.86 | 47.16 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 115 | 193.09 | 47.34 |
| 116 | 195.33 | 47.62 |
| 117 | 197.56 | 47.66 |
| 118 | 199.79 | 47.77 |
| 119 | 202.03 | 47.67 |
| 120 | 204.26 | 47.49 |
| 121 | 206.50 | 47.33 |
| 122 | 208.73 | 47.41 |
| 123 | 210.96 | 47.26 |
| 124 | 213.20 | 47.01 |
| 125 | 215.43 | 46.91 |
| 126 | 217.67 | 46.87 |
| 127 | 219.90 | 46.99 |
| 128 | 222.13 | 46.95 |
| 129 | 224.09 | 47.00 |
| 130 | 226.05 | 47.08 |
| 131 | 228.00 | 47.14 |
| 132 | 229.96 | 46.99 |
| 133 | 231.91 | 46.71 |
| 134 | 233.87 | 46.50 |
| 135 | 235.82 | 46.76 |
| 136 | 237.78 | 46.60 |
| 137 | 239.74 | 46.39 |
| 138 | 241.69 | 46.55 |
| 139 | 243.65 | 46.79 |
| 140 | 245.60 | 47.01 |
| 141 | 247.56 | 47.24 |
| 142 | 249.52 | 47.58 |
| 143 | 251.47 | 47.62 |
| 144 | 253.43 | 47.60 |
| 145 | 255.63 | 47.51 |
| 146 | 257.83 | 47.43 |
| 147 | 260.03 | 46.71 |
| 148 | 262.23 | 45.89 |
| 149 | 264.43 | 45.76 |
| 150 | 266.63 | 46.22 |
| 151 | 268.84 | 47.09 |
| 152 | 271.04 | 47.76 |
| 153 | 272.80 | 47.77 |
| 154 | 274.57 | 47.71 |
| 155 | 276.33 | 47.58 |
| 156 | 278.09 | 47.60 |
| 157 | 279.86 | 47.68 |
| 158 | 281.62 | 47.84 |
| 159 | 283.39 | 47.76 |
| 160 | 285.15 | 47.69 |

Comment:

## Weir Cross Section: X-0390W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 47.69 |
| 1 | 2.12 | 47.67 |
| 2 | 4.24 | 47.72 |
| 3 | 6.36 | 47.89 |
| 4 | 8.48 | 48.03 |
| 5 | 10.59 | 47.78 |
| 6 | 12.71 | 46.10 |
| 7 | 14.83 | 45.31 |
| 8 | 16.95 | 44.71 |
| 9 | 19.07 | 43.97 |
| 10 | 21.19 | 43.21 |
| 11 | 23.31 | 43.86 |
| 12 | 25.43 | 44.76 |
| 13 | 27.55 | 45.56 |
| 14 | 29.67 | 46.01 |
| 15 | 31.78 | 45.81 |
| 16 | 33.90 | 45.81 |
| 17 | 36.02 | 45.69 |
| 18 | 38.14 | 45.49 |
| 19 | 40.26 | 45.53 |
| 20 | 42.38 | 45.65 |
| 21 | 44.50 | 45.63 |
| 22 | 46.62 | 45.62 |
| 23 | 48.74 | 45.56 |
| 24 | 50.86 | 45.48 |
| 25 | 52.97 | 45.45 |
| 26 | 55.09 | 45.52 |
| 27 | 57.21 | 45.50 |
| 28 | 59.33 | 45.47 |
| 29 | 61.45 | 45.42 |
| 30 | 63.57 | 45.43 |
| 31 | 65.69 | 45.69 |
| 32 | 67.81 | 45.99 |
| 33 | 69.93 | 46.01 |
| 34 | 72.05 | 45.85 |
| 35 | 74.16 | 45.53 |
| 36 | 76.28 | 45.25 |
| 37 | 78.40 | 44.82 |
| 38 | 80.52 | 44.09 |
| 39 | 82.64 | 43.51 |
| 40 | 84.76 | 43.41 |
| 41 | 86.88 | 43.89 |
| 42 | 89.00 | 44.27 |
| 43 | 91.12 | 44.62 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 44 | 93.24 | 44.94 |
| 45 | 95.35 | 45.16 |
| 46 | 97.47 | 45.29 |
| 47 | 99.59 | 45.36 |
| 48 | 101.71 | 45.36 |
| 49 | 103.83 | 45.36 |
| 50 | 105.95 | 45.42 |
| 51 | 108.07 | 45.49 |
| 52 | 110.19 | 45.42 |
| 53 | 112.31 | 45.46 |
| 54 | 114.42 | 45.43 |
| 55 | 116.54 | 45.45 |
| 56 | 118.66 | 45.51 |
| 57 | 120.78 | 45.57 |
| 58 | 122.90 | 45.56 |
| 59 | 125.02 | 45.39 |
| 60 | 127.14 | 45.12 |
| 61 | 129.26 | 44.75 |
| 62 | 131.38 | 44.33 |
| 63 | 133.50 | 43.66 |
| 64 | 135.61 | 43.60 |
| 65 | 137.73 | 43.93 |
| 66 | 139.85 | 44.44 |
| 67 | 141.97 | 44.94 |
| 68 | 144.09 | 45.28 |
| 69 | 146.21 | 45.32 |
| 70 | 148.33 | 45.42 |
| 71 | 150.45 | 45.51 |
| 72 | 152.57 | 45.53 |
| 73 | 154.69 | 45.60 |
| 74 | 156.80 | 45.59 |
| 75 | 158.92 | 45.63 |
| 76 | 161.04 | 45.68 |
| 77 | 163.16 | 45.67 |
| 78 | 165.28 | 45.61 |
| 79 | 167.40 | 45.57 |
| 80 | 169.52 | 45.53 |
| 81 | 171.64 | 45.44 |
| 82 | 173.76 | 45.36 |
| 83 | 175.88 | 45.41 |
| 84 | 177.99 | 44.92 |
| 85 | 180.11 | 44.75 |
| 86 | 182.23 | 44.27 |
| 87 | 184.35 | 43.56 |
| 88 | 186.47 | 43.05 |
| 89 | 188.59 | 43.45 |
| 90 | 190.71 | 43.91 |
| 91 | 192.83 | 44.25 |
| 92 | 194.95 | 44.54 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 93 | 197.07 | 44.96 |
| 94 | 199.18 | 45.16 |
| 95 | 201.30 | 45.20 |
| 96 | 203.42 | 45.20 |
| 97 | 205.54 | 45.23 |
| 98 | 207.66 | 45.33 |
| 99 | 209.78 | 45.45 |
| 100 | 211.90 | 45.57 |
| 101 | 214.02 | 45.65 |
| 102 | 216.14 | 45.64 |
| 103 | 218.26 | 45.58 |
| 104 | 220.37 | 45.53 |
| 105 | 222.49 | 45.48 |
| 106 | 224.61 | 45.42 |
| 107 | 226.73 | 45.36 |
| 108 | 228.85 | 45.25 |
| 109 | 230.97 | 44.87 |
| 110 | 233.09 | 44.55 |
| 111 | 235.21 | 44.12 |
| 112 | 237.33 | 43.70 |
| 113 | 239.44 | 43.52 |
| 114 | 241.56 | 43.90 |
| 115 | 243.68 | 44.24 |
| 116 | 245.80 | 44.46 |
| 117 | 247.92 | 44.75 |
| 118 | 250.04 | 45.03 |
| 119 | 252.16 | 45.22 |
| 120 | 254.28 | 45.33 |
| 121 | 256.40 | 45.35 |
| 122 | 258.52 | 45.41 |
| 123 | 260.63 | 45.50 |
| 124 | 262.75 | 45.59 |
| 125 | 264.87 | 45.62 |
| 126 | 266.99 | 45.57 |
| 127 | 269.11 | 45.49 |
| 128 | 271.23 | 45.42 |
| 129 | 272.78 | 45.40 |
| 130 | 274.34 | 45.41 |
| 131 | 275.89 | 45.42 |
| 132 | 277.44 | 45.43 |
| 133 | 278.99 | 45.43 |
| 134 | 280.55 | 45.42 |
| 135 | 282.10 | 45.42 |
| 136 | 283.65 | 45.42 |
| 137 | 285.21 | 45.42 |
| 138 | 286.76 | 45.42 |
| 139 | 288.31 | 45.40 |
| 140 | 289.87 | 45.38 |
| 141 | 291.42 | 45.39 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 142 | 292.97 | 45.41 |
| 143 | 294.52 | 45.40 |
| 144 | 296.08 | 45.39 |
| 145 | 297.63 | 45.40 |
| 146 | 299.18 | 45.41 |
| 147 | 300.74 | 45.40 |
| 148 | 302.29 | 45.38 |
| 149 | 303.84 | 45.37 |
| 150 | 305.40 | 45.38 |
| 151 | 306.95 | 45.37 |
| 152 | 308.50 | 45.37 |
| 153 | 310.05 | 45.39 |
| 154 | 311.61 | 45.41 |
| 155 | 313.16 | 45.42 |
| 156 | 314.71 | 45.42 |
| 157 | 316.27 | 45.42 |
| 158 | 317.82 | 45.42 |
| 159 | 319.37 | 45.42 |
| 160 | 320.92 | 45.44 |
| 161 | 322.48 | 45.48 |
| 162 | 324.03 | 45.49 |
| 163 | 325.58 | 45.47 |
| 164 | 327.14 | 45.45 |
| 165 | 328.69 | 45.43 |
| 166 | 330.24 | 45.41 |
| 167 | 331.80 | 45.40 |
| 168 | 333.35 | 45.40 |
| 169 | 334.90 | 45.39 |
| 170 | 336.45 | 45.40 |
| 171 | 338.01 | 45.41 |
| 172 | 339.56 | 45.40 |
| 173 | 341.11 | 45.40 |
| 174 | 342.67 | 45.40 |
| 175 | 344.22 | 45.41 |
| 176 | 345.77 | 45.41 |
| 177 | 347.33 | 45.42 |
| 178 | 348.88 | 45.43 |
| 179 | 350.43 | 45.43 |
| 180 | 351.98 | 45.43 |
| 181 | 353.54 | 45.43 |
| 182 | 355.09 | 45.43 |
| 183 | 356.64 | 45.45 |
| 184 | 358.20 | 45.47 |
| 185 | 359.75 | 45.47 |
| 186 | 361.30 | 45.46 |
| 187 | 362.86 | 45.46 |
| 188 | 364.41 | 45.46 |
| 189 | 365.96 | 45.45 |
| 190 | 367.51 | 45.44 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 191 | 369.07 | 45.44 |
| 192 | 370.62 | 45.44 |
| 193 | 372.17 | 45.42 |
| 194 | 373.73 | 45.42 |
| 195 | 375.28 | 45.43 |
| 196 | 376.83 | 45.43 |
| 197 | 378.38 | 45.42 |
| 198 | 379.94 | 45.42 |
| 199 | 381.49 | 45.42 |
| 200 | 383.04 | 45.42 |
| 201 | 384.60 | 45.41 |
| 202 | 386.15 | 45.42 |
| 203 | 387.70 | 45.43 |
| 204 | 389.26 | 45.43 |
| 205 | 390.81 | 45.43 |
| 206 | 392.36 | 45.43 |
| 207 | 393.91 | 45.43 |
| 208 | 395.47 | 45.43 |
| 209 | 397.02 | 45.44 |
| 210 | 398.57 | 45.45 |
| 211 | 400.13 | 45.47 |
| 212 | 401.68 | 45.47 |
| 213 | 403.23 | 45.46 |
| 214 | 404.79 | 45.46 |
| 215 | 406.34 | 45.46 |
| 216 | 407.89 | 45.47 |
| 217 | 409.44 | 45.46 |
| 218 | 411.00 | 45.46 |
| 219 | 412.55 | 45.49 |
| 220 | 414.10 | 45.49 |
| 221 | 415.66 | 45.50 |
| 222 | 417.21 | 45.50 |
| 223 | 418.76 | 45.51 |
| 224 | 420.32 | 45.53 |
| 225 | 421.87 | 45.54 |
| 226 | 423.42 | 45.54 |
| 227 | 424.97 | 45.54 |
| 228 | 426.53 | 45.54 |
| 229 | 428.08 | 45.54 |
| 230 | 429.63 | 45.56 |
| 231 | 431.19 | 45.57 |
| 232 | 432.74 | 45.58 |
| 233 | 434.29 | 45.59 |
| 234 | 435.84 | 45.60 |
| 235 | 437.40 | 45.59 |
| 236 | 438.95 | 45.59 |
| 237 | 440.50 | 45.60 |
| 238 | 442.06 | 45.60 |
| 239 | 443.61 | 45.60 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 240 | 445.16 | 45.61 |
| 241 | 446.72 | 45.63 |
| 242 | 448.27 | 45.64 |
| 243 | 449.82 | 45.64 |
| 244 | 451.37 | 45.65 |
| 245 | 452.93 | 45.66 |
| 246 | 454.48 | 45.67 |
| 247 | 456.03 | 45.68 |
| 248 | 457.59 | 45.68 |
| 249 | 459.14 | 45.68 |
| 250 | 460.69 | 45.70 |
| 251 | 462.25 | 45.70 |
| 252 | 463.80 | 45.70 |
| 253 | 465.35 | 45.71 |
| 254 | 466.90 | 45.71 |
| 255 | 468.46 | 45.71 |
| 256 | 470.01 | 45.71 |
| 257 | 471.33 | 45.70 |
| 258 | 472.65 | 45.68 |
| 259 | 473.97 | 45.64 |
| 260 | 475.29 | 45.58 |
| 261 | 476.61 | 45.52 |
| 262 | 477.92 | 45.50 |
| 263 | 479.24 | 45.47 |
| 264 | 480.56 | 45.41 |
| 265 | 481.88 | 45.35 |
| 266 | 483.20 | 45.26 |
| 267 | 484.52 | 45.16 |
| 268 | 485.84 | 45.03 |
| 269 | 487.16 | 44.83 |
| 270 | 488.48 | 44.54 |
| 271 | 489.80 | 44.30 |
| 272 | 491.11 | 44.09 |
| 273 | 492.43 | 43.76 |
| 274 | 493.75 | 43.36 |
| 275 | 495.07 | 43.24 |
| 276 | 496.39 | 43.21 |
| 277 | 497.71 | 43.54 |
| 278 | 499.03 | 43.95 |
| 279 | 500.35 | 44.14 |
| 280 | 501.67 | 44.33 |
| 281 | 502.98 | 44.50 |
| 282 | 504.30 | 44.66 |
| 283 | 505.62 | 44.74 |
| 284 | 506.94 | 44.84 |
| 285 | 508.26 | 44.99 |
| 286 | 509.58 | 45.11 |
| 287 | 510.90 | 45.20 |
| 288 | 512.22 | 45.26 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 289 | 513.54 | 45.31 |
| 290 | 514.86 | 45.35 |
| 291 | 516.17 | 45.40 |
| 292 | 517.49 | 45.47 |
| 293 | 518.81 | 45.54 |
| 294 | 520.13 | 45.53 |
| 295 | 521.45 | 45.51 |
| 296 | 522.77 | 45.45 |
| 297 | 524.09 | 45.38 |
| 298 | 525.41 | 45.35 |
| 299 | 526.73 | 45.31 |
| 300 | 528.05 | 45.31 |
| 301 | 529.36 | 45.31 |
| 302 | 530.68 | 45.30 |
| 303 | 532.00 | 45.28 |
| 304 | 533.32 | 45.20 |
| 305 | 534.64 | 45.09 |
| 306 | 535.96 | 44.95 |
| 307 | 537.28 | 44.77 |
| 308 | 538.60 | 44.56 |
| 309 | 539.92 | 44.38 |
| 310 | 541.24 | 44.22 |
| 311 | 542.55 | 43.90 |
| 312 | 543.87 | 43.52 |
| 313 | 545.19 | 43.53 |
| 314 | 546.51 | 43.63 |
| 315 | 547.83 | 43.91 |
| 316 | 549.15 | 44.19 |
| 317 | 550.47 | 44.38 |
| 318 | 551.79 | 44.58 |
| 319 | 553.11 | 44.85 |
| 320 | 554.43 | 45.10 |
| 321 | 555.74 | 45.33 |
| 322 | 557.06 | 45.52 |
| 323 | 558.38 | 45.62 |
| 324 | 559.70 | 45.65 |
| 325 | 561.02 | 45.59 |
| 326 | 562.34 | 45.55 |
| 327 | 563.66 | 45.53 |
| 328 | 564.98 | 45.54 |
| 329 | 566.30 | 45.58 |
| 330 | 567.61 | 45.60 |
| 331 | 568.93 | 45.63 |
| 332 | 570.25 | 45.62 |
| 333 | 571.57 | 45.61 |
| 334 | 572.89 | 45.56 |
| 335 | 574.21 | 45.52 |
| 336 | 575.53 | 45.46 |
| 337 | 576.85 | 45.42 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 338 | 578.17 | 45.39 |
| 339 | 579.49 | 45.38 |
| 340 | 580.80 | 45.39 |
| 341 | 582.12 | 45.36 |
| 342 | 583.44 | 45.27 |
| 343 | 584.76 | 45.16 |
| 344 | 586.08 | 45.00 |
| 345 | 587.40 | 44.79 |
| 346 | 588.72 | 44.53 |
| 347 | 590.04 | 44.31 |
| 348 | 591.36 | 44.08 |
| 349 | 592.68 | 43.84 |
| 350 | 593.99 | 43.61 |
| 351 | 595.31 | 43.48 |
| 352 | 596.63 | 43.37 |
| 353 | 597.95 | 43.60 |
| 354 | 599.27 | 43.84 |
| 355 | 600.59 | 44.10 |
| 356 | 601.91 | 44.36 |
| 357 | 603.23 | 44.57 |
| 358 | 604.55 | 44.79 |
| 359 | 605.87 | 45.04 |
| 360 | 607.18 | 45.20 |
| 361 | 608.50 | 45.24 |
| 362 | 609.82 | 45.19 |
| 363 | 611.14 | 45.04 |
| 364 | 612.46 | 44.95 |
| 365 | 613.78 | 44.90 |
| 366 | 615.10 | 44.90 |
| 367 | 616.42 | 44.92 |
| 368 | 617.74 | 44.94 |
| 369 | 619.05 | 44.97 |
| 370 | 620.37 | 44.94 |
| 371 | 621.69 | 44.89 |
| 372 | 623.01 | 44.89 |
| 373 | 624.33 | 44.89 |
| 374 | 625.65 | 44.91 |
| 375 | 626.97 | 44.92 |
| 376 | 628.29 | 44.92 |
| 377 | 629.61 | 44.93 |
| 378 | 630.93 | 44.94 |
| 379 | 632.24 | 44.93 |
| 380 | 633.56 | 44.90 |
| 381 | 634.88 | 44.86 |
| 382 | 636.20 | 44.80 |
| 383 | 637.52 | 44.73 |
| 384 | 638.84 | 44.67 |
| 385 | 640.16 | 44.58 |
| 386 | 641.48 | 44.48 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 387 | 642.80 | 44.16 |
| 388 | 644.12 | 43.78 |
| 389 | 645.43 | 43.41 |
| 390 | 646.75 | 43.05 |
| 391 | 648.07 | 42.72 |
| 392 | 649.39 | 42.46 |
| 393 | 650.71 | 42.50 |
| 394 | 652.03 | 42.63 |
| 395 | 653.35 | 43.01 |
| 396 | 654.67 | 43.41 |
| 397 | 655.99 | 43.83 |
| 398 | 657.31 | 44.15 |
| 399 | 658.62 | 44.38 |
| 400 | 659.94 | 44.56 |
| 401 | 661.26 | 44.72 |
| 402 | 662.58 | 44.78 |
| 403 | 663.90 | 44.82 |
| 404 | 665.22 | 44.92 |
| 405 | 666.54 | 45.04 |
| 406 | 667.86 | 45.05 |
| 407 | 669.18 | 45.05 |
| 408 | 670.50 | 45.06 |
| 409 | 671.81 | 45.09 |
| 410 | 673.13 | 45.17 |
| 411 | 674.45 | 45.26 |
| 412 | 675.77 | 45.38 |
| 413 | 677.09 | 45.45 |
| 414 | 678.41 | 45.41 |
| 415 | 679.73 | 45.38 |
| 416 | 681.05 | 45.38 |
| 417 | 682.37 | 45.39 |
| 418 | 683.68 | 45.41 |
| 419 | 685.00 | 45.41 |
| 420 | 686.32 | 45.39 |
| 421 | 687.64 | 45.31 |
| 422 | 688.96 | 45.20 |
| 423 | 690.28 | 45.12 |
| 424 | 691.60 | 45.05 |
| 425 | 692.92 | 45.08 |
| 426 | 694.24 | 45.13 |
| 427 | 695.56 | 45.08 |
| 428 | 696.87 | 45.02 |
| 429 | 698.19 | 44.89 |
| 430 | 699.51 | 44.68 |
| 431 | 700.83 | 44.22 |
| 432 | 702.15 | 43.79 |
| 433 | 703.47 | 43.40 |
| 434 | 704.79 | 43.23 |
| 435 | 706.11 | 43.32 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 436 | 707.43 | 43.53 |
| 437 | 708.75 | 43.86 |
| 438 | 710.06 | 44.15 |
| 439 | 711.38 | 44.42 |
| 440 | 712.70 | 44.72 |
| 441 | 714.02 | 45.02 |
| 442 | 715.34 | 45.21 |
| 443 | 716.66 | 45.39 |
| 444 | 717.98 | 45.47 |
| 445 | 719.30 | 45.55 |
| 446 | 720.62 | 45.55 |
| 447 | 721.94 | 45.57 |
| 448 | 723.25 | 45.64 |
| 449 | 724.57 | 45.70 |
| 450 | 725.89 | 45.71 |
| 451 | 727.21 | 45.70 |
| 452 | 728.53 | 45.66 |
| 453 | 729.85 | 45.62 |
| 454 | 731.17 | 45.61 |
| 455 | 732.49 | 45.55 |
| 456 | 733.81 | 45.48 |
| 457 | 735.13 | 45.46 |
| 458 | 736.44 | 45.49 |
| 459 | 737.76 | 45.49 |
| 460 | 739.08 | 45.48 |
| 461 | 740.40 | 45.57 |
| 462 | 741.72 | 45.69 |
| 463 | 743.04 | 45.69 |
| 464 | 744.36 | 45.67 |
| 465 | 745.68 | 45.45 |
| 466 | 747.00 | 45.22 |
| 467 | 748.31 | 44.88 |
| 468 | 749.63 | 44.55 |
| 469 | 750.95 | 44.24 |
| 470 | 752.27 | 43.92 |
| 471 | 753.59 | 43.62 |
| 472 | 754.91 | 43.52 |
| 473 | 756.23 | 43.65 |
| 474 | 757.55 | 43.87 |
| 475 | 758.87 | 44.16 |
| 476 | 760.19 | 44.49 |
| 477 | 761.50 | 44.83 |
| 478 | 762.82 | 45.06 |
| 479 | 764.14 | 45.27 |
| 480 | 765.46 | 45.43 |
| 481 | 766.78 | 45.58 |
| 482 | 768.10 | 45.65 |
| 483 | 769.42 | 45.71 |
| 484 | 770.74 | 45.66 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 485 | 772.06 | 45.62 |
| 486 | 773.38 | 45.62 |
| 487 | 774.69 | 45.63 |
| 488 | 776.01 | 45.64 |
| 489 | 777.33 | 45.63 |
| 490 | 778.65 | 45.60 |
| 491 | 779.97 | 45.58 |
| 492 | 781.29 | 45.59 |
| 493 | 782.61 | 45.60 |
| 494 | 783.93 | 45.62 |
| 495 | 785.25 | 45.62 |
| 496 | 786.57 | 45.61 |
| 497 | 787.88 | 45.59 |
| 498 | 789.20 | 45.58 |
| 499 | 790.52 | 45.89 |
| 500 | 791.84 | 46.22 |
| 501 | 793.16 | 46.52 |
| 502 | 794.48 | 46.69 |
| 503 | 795.80 | 46.27 |
| 504 | 797.12 | 45.78 |
| 505 | 798.44 | 45.10 |
| 506 | 799.76 | 44.52 |
| 507 | 801.07 | 44.10 |
| 508 | 802.39 | 43.74 |
| 509 | 803.71 | 43.46 |
| 510 | 805.03 | 43.41 |
| 511 | 806.35 | 43.55 |
| 512 | 807.67 | 43.87 |
| 513 | 809.71 | 44.49 |
| 514 | 811.75 | 45.07 |
| 515 | 813.79 | 45.53 |
| 516 | 815.83 | 45.72 |
| 517 | 817.87 | 45.72 |
| 518 | 819.91 | 45.62 |
| 519 | 821.95 | 45.55 |
| 520 | 823.99 | 45.60 |
| 521 | 826.02 | 45.62 |
| 522 | 828.06 | 45.63 |
| 523 | 830.10 | 45.62 |
| 524 | 832.14 | 45.57 |
| 525 | 834.18 | 45.46 |
| 526 | 836.22 | 45.37 |
| 527 | 838.26 | 45.38 |
| 528 | 840.30 | 45.36 |
| 529 | 842.34 | 45.23 |
| 530 | 844.38 | 45.00 |
| 531 | 846.42 | 44.58 |
| 532 | 848.46 | 44.18 |
| 533 | 850.50 | 43.78 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 534 | 852.54 | 43.51 |
| 535 | 854.58 | 43.55 |
| 536 | 856.62 | 44.15 |
| 537 | 858.66 | 44.29 |
| 538 | 860.70 | 45.60 |
| 539 | 862.74 | 46.95 |
| 540 | 864.78 | 47.26 |
| 541 | 866.82 | 46.48 |
| 542 | 868.86 | 45.88 |
| 543 | 870.90 | 45.69 |
| 544 | 872.93 | 45.59 |
| 545 | 874.97 | 45.52 |
| 546 | 877.01 | 45.58 |
| 547 | 879.05 | 45.51 |
| 548 | 881.09 | 45.52 |
| 549 | 883.13 | 45.65 |
| 550 | 885.17 | 45.82 |
| 551 | 887.21 | 46.09 |
| 552 | 889.25 | 46.96 |
| 553 | 891.29 | 47.12 |
| 554 | 893.33 | 46.63 |
| 555 | 895.37 | 45.72 |
| 556 | 897.41 | 44.78 |
| 557 | 899.45 | 44.25 |
| 558 | 901.49 | 43.63 |
| 559 | 903.53 | 43.22 |
| 560 | 905.57 | 43.39 |
| 561 | 907.61 | 43.98 |
| 562 | 909.65 | 44.64 |
| 563 | 911.69 | 45.06 |
| 564 | 913.73 | 45.11 |
| 565 | 915.77 | 45.23 |
| 566 | 917.81 | 45.38 |
| 567 | 919.84 | 45.48 |
| 568 | 921.88 | 45.52 |
| 569 | 923.92 | 45.54 |
| 570 | 925.96 | 45.59 |
| 571 | 928.00 | 45.64 |
| 572 | 930.04 | 45.64 |
| 573 | 932.08 | 45.59 |
| 574 | 934.12 | 45.60 |
| 575 | 936.16 | 45.87 |
| 576 | 938.20 | 46.53 |
| 577 | 939.84 | 46.96 |
| 578 | 941.48 | 46.72 |
| 579 | 943.11 | 46.26 |
| 580 | 944.75 | 45.67 |
| 581 | 946.39 | 44.85 |
| 582 | 948.02 | 44.03 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 583 | 949.66 | 43.29 |
| 584 | 951.30 | 42.88 |
| 585 | 952.94 | 42.90 |
| 586 | 954.57 | 43.18 |
| 587 | 956.21 | 43.57 |
| 588 | 957.85 | 43.97 |
| 589 | 959.49 | 44.35 |
| 590 | 961.12 | 44.41 |
| 591 | 962.76 | 44.62 |
| 592 | 964.40 | 44.94 |
| 593 | 966.03 | 45.49 |
| 594 | 967.67 | 45.80 |
| 595 | 969.31 | 45.85 |
| 596 | 970.95 | 45.69 |
| 597 | 972.58 | 45.51 |
| 598 | 974.22 | 45.31 |
| 599 | 975.86 | 45.17 |
| 600 | 977.50 | 45.09 |
| 601 | 979.13 | 45.09 |
| 602 | 980.77 | 45.10 |
| 603 | 982.41 | 45.13 |
| 604 | 984.04 | 45.24 |
| 605 | 985.68 | 45.25 |
| 606 | 987.32 | 45.20 |
| 607 | 988.96 | 45.14 |
| 608 | 990.59 | 45.12 |
| 609 | 992.23 | 45.13 |
| 610 | 993.87 | 45.17 |
| 611 | 995.51 | 45.11 |
| 612 | 997.14 | 45.03 |
| 613 | 998.78 | 44.97 |
| 614 | 1000.42 | 45.00 |
| 615 | 1002.05 | 45.08 |
| 616 | 1003.69 | 45.09 |
| 617 | 1005.33 | 45.05 |
| 618 | 1006.97 | 44.94 |
| 619 | 1008.60 | 44.84 |
| 620 | 1010.24 | 44.74 |
| 621 | 1011.88 | 44.63 |
| 622 | 1013.52 | 44.47 |
| 623 | 1015.15 | 44.29 |
| 624 | 1016.79 | 44.11 |
| 625 | 1018.43 | 44.06 |
| 626 | 1020.06 | 44.01 |
| 627 | 1021.70 | 43.96 |
| 628 | 1023.34 | 43.86 |
| 629 | 1024.98 | 43.77 |
| 630 | 1026.61 | 43.72 |
| 631 | 1028.25 | 43.56 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 632 | 1029.89 | 43.41 |
| 633 | 1031.53 | 43.36 |
| 634 | 1033.16 | 43.38 |
| 635 | 1034.80 | 43.45 |
| 636 | 1036.44 | 43.58 |
| 637 | 1038.07 | 43.65 |
| 638 | 1039.71 | 43.72 |
| 639 | 1041.35 | 43.91 |
| 640 | 1042.99 | 43.99 |
| 641 | 1044.51 | 44.03 |
| 642 | 1046.03 | 44.29 |
| 643 | 1047.55 | 44.51 |
| 644 | 1049.07 | 44.64 |
| 645 | 1050.59 | 44.75 |
| 646 | 1052.11 | 44.83 |
| 647 | 1053.63 | 44.75 |
| 648 | 1055.15 | 44.71 |
| 649 | 1056.67 | 44.72 |
| 650 | 1058.19 | 45.05 |
| 651 | 1059.71 | 45.52 |
| 652 | 1061.23 | 46.38 |
| 653 | 1062.75 | 47.11 |
| 654 | 1064.27 | 47.68 |
| 655 | 1065.79 | 47.36 |
| 656 | 1067.31 | 47.02 |
| 657 | 1068.83 | 47.26 |
| 658 | 1070.35 | 47.31 |
| 659 | 1071.87 | 47.18 |
| 660 | 1073.39 | 47.17 |
| 661 | 1074.91 | 47.16 |
| 662 | 1076.43 | 47.01 |
| 663 | 1077.95 | 46.87 |
| 664 | 1079.47 | 46.73 |
| 665 | 1081.00 | 46.82 |
| 666 | 1082.52 | 46.91 |
| 667 | 1084.04 | 46.92 |
| 668 | 1085.56 | 46.87 |
| 669 | 1087.08 | 46.78 |
| 670 | 1088.60 | 46.58 |
| 671 | 1090.12 | 46.25 |
| 672 | 1091.64 | 45.65 |
| 673 | 1093.16 | 44.85 |
| 674 | 1094.68 | 43.98 |
| 675 | 1096.20 | 43.50 |
| 676 | 1097.72 | 43.17 |
| 677 | 1099.24 | 43.00 |
| 678 | 1100.76 | 42.91 |
| 679 | 1102.28 | 42.85 |
| 680 | 1103.80 | 42.94 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 681 | 1105.32 | 43.15 |
| 682 | 1106.84 | 43.53 |
| 683 | 1108.36 | 43.94 |
| 684 | 1109.88 | 44.36 |
| 685 | 1111.40 | 44.79 |
| 686 | 1112.92 | 45.11 |
| 687 | 1114.44 | 45.28 |
| 688 | 1115.96 | 45.42 |
| 689 | 1117.48 | 45.53 |
| 690 | 1119.00 | 45.54 |
| 691 | 1120.52 | 45.54 |
| 692 | 1122.04 | 45.50 |
| 693 | 1123.57 | 45.93 |
| 694 | 1125.09 | 46.37 |
| 695 | 1126.61 | 46.59 |
| 696 | 1128.13 | 46.74 |
| 697 | 1129.65 | 46.81 |
| 698 | 1131.17 | 46.73 |
| 699 | 1132.69 | 46.72 |
| 700 | 1134.21 | 46.89 |
| 701 | 1135.73 | 46.84 |
| 702 | 1137.25 | 46.69 |
| 703 | 1138.77 | 46.53 |
| 704 | 1140.29 | 46.48 |

Comment:

## Weir Cross Section: X-0400W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 49.16 |
| 1 | 2.39 | 49.09 |
| 2 | 4.78 | 49.05 |
| 3 | 7.16 | 48.99 |
| 4 | 9.55 | 48.91 |
| 5 | 11.94 | 48.84 |
| 6 | 14.33 | 48.77 |
| 7 | 16.71 | 48.70 |
| 8 | 19.10 | 48.62 |
| 9 | 21.49 | 48.56 |
| 10 | 23.88 | 48.52 |
| 11 | 26.26 | 48.50 |
| 12 | 28.65 | 48.45 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 13 | 31.04 | 48.46 |
| 14 | 33.43 | 48.41 |
| 15 | 35.81 | 48.41 |
| 16 | 38.20 | 48.39 |
| 17 | 39.70 | 48.40 |
| 18 | 41.21 | 48.40 |
| 19 | 42.71 | 48.39 |
| 20 | 44.21 | 48.37 |
| 21 | 45.71 | 48.34 |
| 22 | 47.22 | 48.33 |
| 23 | 48.72 | 48.32 |
| 24 | 50.22 | 48.29 |
| 25 | 51.72 | 48.27 |
| 26 | 53.22 | 48.25 |
| 27 | 54.73 | 48.23 |
| 28 | 56.23 | 48.20 |
| 29 | 57.73 | 48.15 |
| 30 | 59.23 | 48.12 |
| 31 | 60.74 | 48.09 |
| 32 | 62.24 | 48.10 |
| 33 | 63.74 | 48.10 |
| 34 | 65.24 | 48.08 |
| 35 | 66.75 | 48.09 |
| 36 | 68.25 | 48.12 |
| 37 | 69.75 | 48.10 |
| 38 | 71.25 | 48.09 |
| 39 | 72.75 | 48.08 |
| 40 | 74.26 | 48.06 |
| 41 | 75.76 | 48.02 |
| 42 | 77.26 | 47.99 |
| 43 | 78.76 | 47.97 |
| 44 | 80.27 | 47.98 |
| 45 | 81.77 | 47.98 |
| 46 | 83.27 | 47.99 |
| 47 | 84.77 | 47.95 |
| 48 | 86.28 | 47.93 |
| 49 | 87.78 | 47.95 |
| 50 | 89.28 | 47.93 |
| 51 | 90.78 | 47.90 |
| 52 | 92.28 | 47.93 |
| 53 | 93.79 | 47.94 |
| 54 | 95.29 | 47.92 |
| 55 | 96.79 | 47.91 |
| 56 | 98.29 | 47.92 |
| 57 | 99.80 | 47.93 |
| 58 | 101.30 | 47.93 |
| 59 | 102.80 | 47.91 |
| 60 | 104.30 | 47.90 |
| 61 | 105.81 | 47.89 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 62 | 107.31 | 47.91 |
| 63 | 108.81 | 47.93 |
| 64 | 110.31 | 47.93 |
| 65 | 111.81 | 47.95 |
| 66 | 113.32 | 47.98 |
| 67 | 114.82 | 47.96 |
| 68 | 116.32 | 47.95 |
| 69 | 117.82 | 47.95 |
| 70 | 119.33 | 47.93 |
| 71 | 120.83 | 47.90 |
| 72 | 122.33 | 47.91 |
| 73 | 123.83 | 47.91 |
| 74 | 125.34 | 47.89 |
| 75 | 126.84 | 47.87 |
| 76 | 128.34 | 47.85 |
| 77 | 129.84 | 47.83 |
| 78 | 131.34 | 47.83 |
| 79 | 132.85 | 47.85 |
| 80 | 134.35 | 47.86 |
| 81 | 135.84 | 47.86 |
| 82 | 137.32 | 47.84 |
| 83 | 138.81 | 47.84 |
| 84 | 140.30 | 47.87 |
| 85 | 141.78 | 47.89 |
| 86 | 143.27 | 47.91 |
| 87 | 144.76 | 47.90 |
| 88 | 146.24 | 47.89 |
| 89 | 147.73 | 47.90 |
| 90 | 149.22 | 47.92 |
| 91 | 150.70 | 47.93 |
| 92 | 152.19 | 47.92 |
| 93 | 153.67 | 47.91 |
| 94 | 155.16 | 47.91 |
| 95 | 156.65 | 47.92 |
| 96 | 158.13 | 47.91 |
| 97 | 159.62 | 47.91 |
| 98 | 161.11 | 47.92 |
| 99 | 162.59 | 47.92 |
| 100 | 164.08 | 47.92 |
| 101 | 165.57 | 47.94 |
| 102 | 167.05 | 47.95 |
| 103 | 168.54 | 47.96 |
| 104 | 170.03 | 47.94 |
| 105 | 171.51 | 47.93 |
| 106 | 173.00 | 47.95 |
| 107 | 174.49 | 47.98 |
| 108 | 175.97 | 47.99 |
| 109 | 177.46 | 47.94 |
| 110 | 178.95 | 47.92 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 111 | 180.43 | 47.93 |
| 112 | 181.92 | 47.94 |

Comment:

## Weir Cross Section: X-0410W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 47.69 |
| 1 | 1.91 | 47.63 |
| 2 | 3.82 | 47.63 |
| 3 | 5.73 | 47.70 |
| 4 | 7.65 | 47.68 |
| 5 | 9.56 | 47.61 |
| 6 | 11.47 | 47.64 |
| 7 | 13.38 | 47.69 |
| 8 | 15.29 | 47.68 |
| 9 | 17.20 | 47.66 |
| 10 | 19.11 | 47.70 |
| 11 | 21.03 | 47.69 |
| 12 | 22.94 | 47.67 |
| 13 | 24.85 | 47.65 |
| 14 | 26.76 | 47.66 |
| 15 | 28.67 | 47.71 |
| 16 | 30.58 | 47.70 |
| 17 | 32.49 | 47.71 |
| 18 | 34.41 | 47.74 |
| 19 | 36.32 | 47.78 |
| 20 | 38.23 | 47.83 |
| 21 | 40.14 | 47.87 |
| 22 | 42.05 | 47.88 |
| 23 | 43.96 | 47.90 |
| 24 | 45.87 | 47.85 |
| 25 | 47.79 | 47.81 |
| 26 | 49.70 | 47.77 |
| 27 | 51.61 | 47.76 |
| 28 | 53.52 | 47.74 |
| 29 | 55.43 | 47.71 |
| 30 | 57.34 | 47.70 |
| 31 | 59.25 | 47.72 |
| 32 | 61.17 | 47.67 |
| 33 | 63.08 | 47.62 |
| 34 | 64.99 | 47.62 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 35 | 66.90 | 47.66 |
| 36 | 68.81 | 47.65 |
| 37 | 70.72 | 47.70 |
| 38 | 72.63 | 47.75 |
| 39 | 74.55 | 47.76 |
| 40 | 76.46 | 47.72 |
| 41 | 78.37 | 47.62 |
| 42 | 80.28 | 47.61 |
| 43 | 82.19 | 47.62 |
| 44 | 84.10 | 47.54 |
| 45 | 86.01 | 47.59 |
| 46 | 87.93 | 47.60 |
| 47 | 89.84 | 47.60 |
| 48 | 91.75 | 47.60 |
| 49 | 93.66 | 47.53 |
| 50 | 95.57 | 47.53 |
| 51 | 97.48 | 47.56 |
| 52 | 99.39 | 47.59 |
| 53 | 101.31 | 47.62 |
| 54 | 103.22 | 47.59 |
| 55 | 105.13 | 47.53 |
| 56 | 107.04 | 47.52 |
| 57 | 108.95 | 47.71 |
| 58 | 110.86 | 48.00 |
| 59 | 112.77 | 48.08 |
| 60 | 114.69 | 47.92 |
| 61 | 116.60 | 47.52 |
| 62 | 118.51 | 47.48 |
| 63 | 120.42 | 47.45 |
| 64 | 122.33 | 47.41 |
| 65 | 124.24 | 47.36 |
| 66 | 126.15 | 47.35 |
| 67 | 128.07 | 47.37 |
| 68 | 129.98 | 47.32 |
| 69 | 131.89 | 47.20 |
| 70 | 133.80 | 47.14 |
| 71 | 135.71 | 47.13 |
| 72 | 137.62 | 47.12 |
| 73 | 139.53 | 47.13 |
| 74 | 141.45 | 47.24 |
| 75 | 143.36 | 47.30 |
| 76 | 145.27 | 47.33 |
| 77 | 147.18 | 47.32 |
| 78 | 149.09 | 47.23 |
| 79 | 151.00 | 47.23 |
| 80 | 152.91 | 47.22 |
| 81 | 154.83 | 47.24 |
| 82 | 156.74 | 47.35 |
| 83 | 158.65 | 47.34 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 84 | 160.56 | 47.38 |
| 85 | 162.47 | 47.46 |
| 86 | 164.38 | 47.57 |
| 87 | 166.29 | 47.57 |
| 88 | 168.21 | 47.61 |
| 89 | 170.12 | 47.66 |
| 90 | 172.03 | 47.66 |
| 91 | 173.94 | 47.50 |
| 92 | 175.85 | 47.40 |
| 93 | 177.76 | 47.45 |
| 94 | 179.67 | 47.58 |
| 95 | 181.59 | 47.64 |
| 96 | 183.50 | 47.64 |
| 97 | 185.41 | 47.62 |
| 98 | 187.32 | 47.65 |
| 99 | 189.23 | 47.78 |
| 100 | 191.14 | 47.56 |
| 101 | 193.05 | 47.48 |
| 102 | 194.96 | 47.55 |
| 103 | 196.88 | 47.71 |
| 104 | 198.79 | 47.69 |
| 105 | 200.70 | 47.70 |
| 106 | 202.61 | 47.62 |
| 107 | 204.52 | 47.43 |
| 108 | 206.43 | 47.28 |
| 109 | 208.34 | 47.30 |
| 110 | 210.26 | 47.35 |
| 111 | 212.17 | 47.40 |
| 112 | 214.08 | 47.44 |
| 113 | 215.99 | 47.47 |
| 114 | 217.90 | 47.32 |
| 115 | 219.81 | 47.23 |
| 116 | 221.72 | 47.45 |
| 117 | 223.64 | 47.55 |
| 118 | 225.55 | 47.55 |
| 119 | 227.46 | 47.49 |
| 120 | 229.37 | 47.41 |
| 121 | 231.28 | 47.32 |
| 122 | 233.19 | 47.22 |
| 123 | 235.10 | 47.22 |
| 124 | 237.02 | 47.36 |
| 125 | 238.93 | 47.64 |
| 126 | 240.84 | 47.69 |
| 127 | 242.75 | 47.67 |
| 128 | 244.66 | 47.55 |
| 129 | 247.16 | 47.18 |
| 130 | 249.66 | 47.11 |
| 131 | 252.16 | 47.23 |
| 132 | 254.66 | 47.29 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 133 | 257.16 | 47.31 |
| 134 | 259.66 | 47.29 |
| 135 | 262.16 | 47.27 |
| 136 | 264.66 | 47.08 |
| 137 | 267.16 | 47.14 |
| 138 | 269.66 | 47.25 |
| 139 | 272.16 | 47.39 |
| 140 | 274.66 | 47.40 |
| 141 | 277.16 | 47.24 |
| 142 | 279.66 | 47.29 |
| 143 | 282.16 | 47.35 |
| 144 | 284.66 | 47.25 |
| 145 | 287.16 | 47.34 |
| 146 | 289.66 | 47.45 |
| 147 | 292.16 | 47.48 |
| 148 | 294.66 | 47.39 |
| 149 | 297.16 | 47.45 |
| 150 | 299.66 | 47.32 |
| 151 | 302.16 | 47.13 |
| 152 | 304.66 | 47.10 |
| 153 | 307.16 | 47.23 |
| 154 | 309.66 | 47.35 |
| 155 | 312.16 | 47.37 |
| 156 | 314.65 | 47.34 |
| 157 | 317.15 | 47.38 |
| 158 | 319.65 | 47.39 |
| 159 | 322.15 | 47.29 |
| 160 | 324.65 | 47.21 |
| 161 | 327.15 | 47.08 |
| 162 | 329.65 | 47.09 |
| 163 | 332.15 | 47.17 |
| 164 | 334.65 | 47.17 |
| 165 | 337.15 | 47.09 |
| 166 | 339.65 | 47.11 |
| 167 | 342.15 | 47.20 |
| 168 | 344.65 | 47.31 |
| 169 | 347.15 | 47.45 |
| 170 | 349.65 | 47.41 |
| 171 | 352.15 | 47.38 |
| 172 | 354.65 | 47.29 |
| 173 | 357.15 | 47.41 |
| 174 | 359.65 | 47.45 |
| 175 | 362.15 | 47.36 |
| 176 | 364.65 | 47.21 |
| 177 | 367.15 | 47.25 |
| 178 | 369.65 | 47.23 |
| 179 | 372.15 | 47.18 |
| 180 | 374.65 | 47.12 |
| 181 | 377.15 | 46.93 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 182 | 379.65 | 46.93 |
| 183 | 382.15 | 46.96 |
| 184 | 384.65 | 46.97 |
| 185 | 387.15 | 47.05 |
| 186 | 389.65 | 47.00 |
| 187 | 392.15 | 47.09 |
| 188 | 394.65 | 47.18 |
| 189 | 397.15 | 47.17 |
| 190 | 399.65 | 47.14 |
| 191 | 402.15 | 47.18 |
| 192 | 404.65 | 47.24 |
| 193 | 407.15 | 47.23 |
| 194 | 409.65 | 47.22 |
| 195 | 412.15 | 47.26 |
| 196 | 414.64 | 47.22 |
| 197 | 417.14 | 47.22 |
| 198 | 419.64 | 47.29 |
| 199 | 422.14 | 47.24 |
| 200 | 424.64 | 47.29 |
| 201 | 427.14 | 47.37 |
| 202 | 429.64 | 47.49 |
| 203 | 432.14 | 47.49 |
| 204 | 434.64 | 47.43 |
| 205 | 437.14 | 47.42 |
| 206 | 439.64 | 47.50 |
| 207 | 442.14 | 47.51 |
| 208 | 444.64 | 47.47 |
| 209 | 447.14 | 47.41 |
| 210 | 449.64 | 47.47 |
| 211 | 452.14 | 47.47 |
| 212 | 454.64 | 47.44 |
| 213 | 457.14 | 47.47 |
| 214 | 459.64 | 47.55 |
| 215 | 462.14 | 47.64 |
| 216 | 464.64 | 47.64 |
| 217 | 467.14 | 47.64 |
| 218 | 469.64 | 47.62 |
| 219 | 472.14 | 47.70 |
| 220 | 474.64 | 47.62 |
| 221 | 477.14 | 47.66 |
| 222 | 479.64 | 47.77 |
| 223 | 482.14 | 47.79 |
| 224 | 484.64 | 47.70 |
| 225 | 487.14 | 47.78 |
| 226 | 489.64 | 47.87 |
| 227 | 492.14 | 47.80 |
| 228 | 494.64 | 47.71 |
| 229 | 497.14 | 47.75 |
| 230 | 499.64 | 47.70 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 231 | 502.14 | 47.70 |
| 232 | 504.64 | 47.76 |
| 233 | 507.14 | 47.83 |
| 234 | 509.64 | 47.80 |
| 235 | 512.13 | 47.72 |
| 236 | 514.63 | 47.64 |
| 237 | 517.13 | 47.68 |
| 238 | 519.63 | 47.63 |
| 239 | 522.13 | 47.57 |
| 240 | 524.63 | 47.54 |
| 241 | 527.13 | 47.59 |
| 242 | 529.63 | 47.57 |
| 243 | 532.13 | 47.57 |
| 244 | 534.63 | 47.65 |
| 245 | 537.13 | 47.73 |
| 246 | 539.63 | 47.66 |
| 247 | 542.13 | 47.65 |
| 248 | 544.63 | 47.75 |
| 249 | 547.13 | 47.79 |
| 250 | 549.63 | 47.74 |
| 251 | 552.13 | 47.78 |
| 252 | 554.63 | 47.75 |
| 253 | 557.13 | 47.69 |
| 254 | 559.63 | 47.65 |
| 255 | 562.13 | 47.66 |
| 256 | 564.63 | 47.76 |
| 257 | 565.97 | 47.78 |
| 258 | 567.31 | 47.81 |
| 259 | 568.64 | 47.80 |
| 260 | 569.98 | 47.79 |
| 261 | 571.32 | 47.81 |
| 262 | 572.66 | 47.76 |
| 263 | 574.00 | 47.60 |
| 264 | 575.34 | 47.27 |
| 265 | 576.67 | 46.80 |
| 266 | 578.01 | 46.36 |
| 267 | 579.35 | 45.96 |
| 268 | 580.69 | 45.58 |
| 269 | 582.03 | 45.21 |
| 270 | 583.37 | 44.86 |
| 271 | 584.70 | 44.61 |
| 272 | 586.04 | 44.29 |
| 273 | 587.38 | 43.88 |
| 274 | 588.72 | 43.53 |
| 275 | 590.06 | 43.23 |
| 276 | 591.40 | 43.01 |
| 277 | 592.73 | 43.33 |
| 278 | 594.07 | 43.73 |
| 279 | 595.41 | 44.12 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 280 | 596.75 | 44.50 |
| 281 | 598.09 | 44.92 |
| 282 | 599.43 | 45.39 |
| 283 | 600.76 | 45.64 |
| 284 | 602.10 | 45.86 |
| 285 | 603.44 | 46.11 |
| 286 | 604.78 | 46.14 |
| 287 | 606.12 | 46.00 |
| 288 | 607.46 | 45.83 |
| 289 | 608.79 | 45.75 |
| 290 | 610.13 | 45.89 |
| 291 | 611.47 | 46.12 |
| 292 | 612.81 | 46.23 |
| 293 | 614.15 | 46.22 |
| 294 | 615.49 | 46.15 |
| 295 | 616.82 | 46.02 |
| 296 | 618.16 | 45.81 |
| 297 | 619.50 | 45.76 |
| 298 | 620.84 | 45.77 |
| 299 | 622.18 | 45.81 |
| 300 | 623.52 | 45.89 |
| 301 | 624.85 | 45.92 |
| 302 | 626.19 | 45.87 |
| 303 | 627.53 | 45.79 |
| 304 | 628.87 | 45.70 |
| 305 | 630.21 | 45.65 |
| 306 | 631.55 | 45.64 |
| 307 | 632.88 | 45.63 |
| 308 | 634.22 | 45.60 |
| 309 | 635.56 | 45.56 |
| 310 | 636.90 | 45.56 |
| 311 | 638.24 | 45.62 |
| 312 | 639.58 | 45.68 |
| 313 | 640.91 | 45.68 |
| 314 | 642.25 | 45.61 |
| 315 | 643.59 | 45.55 |
| 316 | 644.93 | 45.57 |
| 317 | 646.27 | 45.66 |
| 318 | 647.61 | 45.75 |
| 319 | 648.94 | 45.89 |
| 320 | 650.28 | 46.07 |
| 321 | 651.62 | 46.14 |
| 322 | 652.96 | 46.21 |
| 323 | 654.30 | 46.43 |
| 324 | 655.64 | 46.75 |
| 325 | 656.97 | 47.04 |
| 326 | 658.31 | 47.33 |
| 327 | 659.65 | 47.79 |
| 328 | 660.99 | 47.95 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 329 | 662.33 | 47.99 |
| 330 | 663.67 | 47.87 |
| 331 | 665.00 | 47.36 |
| 332 | 666.34 | 46.70 |
| 333 | 667.68 | 46.21 |
| 334 | 669.02 | 45.87 |
| 335 | 670.36 | 45.48 |
| 336 | 671.70 | 45.18 |
| 337 | 673.03 | 44.98 |
| 338 | 674.37 | 44.79 |
| 339 | 675.71 | 44.61 |
| 340 | 677.05 | 44.43 |
| 341 | 678.39 | 44.16 |
| 342 | 679.73 | 43.90 |
| 343 | 681.06 | 43.74 |
| 344 | 682.40 | 43.72 |
| 345 | 683.74 | 43.67 |
| 346 | 685.08 | 43.69 |
| 347 | 686.42 | 43.90 |
| 348 | 687.76 | 44.12 |
| 349 | 689.09 | 44.31 |
| 350 | 690.43 | 44.45 |
| 351 | 691.77 | 44.59 |
| 352 | 693.11 | 44.73 |
| 353 | 694.45 | 44.89 |
| 354 | 695.79 | 45.07 |
| 355 | 697.12 | 45.25 |
| 356 | 698.46 | 45.39 |
| 357 | 699.80 | 45.49 |
| 358 | 701.14 | 45.56 |
| 359 | 702.48 | 45.56 |
| 360 | 703.82 | 45.55 |
| 361 | 705.15 | 45.53 |
| 362 | 706.49 | 45.54 |
| 363 | 707.83 | 45.57 |
| 364 | 709.17 | 45.60 |
| 365 | 710.51 | 45.61 |
| 366 | 711.85 | 45.62 |
| 367 | 713.18 | 45.65 |
| 368 | 714.52 | 45.67 |
| 369 | 715.86 | 45.71 |
| 370 | 717.20 | 45.74 |
| 371 | 718.54 | 45.75 |
| 372 | 719.88 | 45.78 |
| 373 | 721.21 | 45.79 |
| 374 | 722.55 | 45.75 |
| 375 | 723.89 | 45.71 |
| 376 | 725.23 | 45.69 |
| 377 | 726.57 | 45.67 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 378 | 727.91 | 45.64 |
| 379 | 729.24 | 45.60 |
| 380 | 730.58 | 45.59 |
| 381 | 731.92 | 45.58 |
| 382 | 733.26 | 45.57 |
| 383 | 734.60 | 45.57 |
| 384 | 735.94 | 45.56 |
| 385 | 737.61 | 45.50 |
| 386 | 739.29 | 45.31 |
| 387 | 740.97 | 45.15 |
| 388 | 742.65 | 45.14 |
| 389 | 744.32 | 45.08 |
| 390 | 746.00 | 45.00 |
| 391 | 747.68 | 44.91 |
| 392 | 749.36 | 44.69 |
| 393 | 751.04 | 44.40 |
| 394 | 752.71 | 44.09 |
| 395 | 754.39 | 43.77 |
| 396 | 756.07 | 43.94 |
| 397 | 757.75 | 44.20 |
| 398 | 759.43 | 44.56 |
| 399 | 761.10 | 44.89 |
| 400 | 762.78 | 45.17 |
| 401 | 764.46 | 45.39 |
| 402 | 766.14 | 45.61 |
| 403 | 767.81 | 45.63 |
| 404 | 769.49 | 45.57 |
| 405 | 771.17 | 45.72 |
| 406 | 772.85 | 45.82 |
| 407 | 774.53 | 45.83 |
| 408 | 776.20 | 45.83 |
| 409 | 777.88 | 45.80 |
| 410 | 779.56 | 45.85 |
| 411 | 781.24 | 45.92 |
| 412 | 782.92 | 45.94 |
| 413 | 784.59 | 45.95 |
| 414 | 786.27 | 45.87 |
| 415 | 787.95 | 45.81 |
| 416 | 789.63 | 45.77 |
| 417 | 791.30 | 45.73 |
| 418 | 792.98 | 45.71 |
| 419 | 794.66 | 45.70 |
| 420 | 796.34 | 45.71 |
| 421 | 798.02 | 45.76 |
| 422 | 799.69 | 45.84 |
| 423 | 801.37 | 45.78 |
| 424 | 803.05 | 45.36 |
| 425 | 804.73 | 44.96 |
| 426 | 806.41 | 44.58 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 427 | 808.08 | 44.19 |
| 428 | 809.76 | 43.86 |
| 429 | 811.44 | 43.64 |
| 430 | 813.12 | 43.65 |
| 431 | 814.79 | 43.83 |
| 432 | 816.47 | 44.14 |
| 433 | 818.15 | 44.33 |
| 434 | 819.83 | 44.53 |
| 435 | 821.51 | 44.71 |
| 436 | 823.18 | 44.87 |
| 437 | 824.86 | 45.19 |
| 438 | 826.54 | 45.44 |
| 439 | 828.22 | 45.62 |
| 440 | 829.89 | 45.67 |
| 441 | 831.57 | 45.70 |
| 442 | 833.25 | 45.68 |
| 443 | 834.93 | 45.69 |
| 444 | 836.61 | 45.77 |
| 445 | 838.28 | 45.83 |
| 446 | 839.96 | 45.87 |
| 447 | 841.64 | 45.90 |
| 448 | 843.32 | 45.91 |
| 449 | 845.22 | 45.89 |
| 450 | 847.12 | 45.85 |
| 451 | 849.03 | 45.78 |
| 452 | 850.93 | 45.77 |
| 453 | 852.83 | 45.76 |
| 454 | 854.73 | 45.72 |
| 455 | 856.64 | 45.59 |
| 456 | 858.54 | 45.42 |
| 457 | 860.44 | 45.27 |
| 458 | 862.34 | 45.01 |
| 459 | 864.25 | 44.72 |
| 460 | 866.15 | 44.47 |
| 461 | 868.05 | 44.10 |
| 462 | 869.95 | 43.75 |
| 463 | 871.86 | 43.66 |
| 464 | 873.76 | 43.97 |
| 465 | 875.66 | 44.33 |
| 466 | 877.56 | 44.56 |
| 467 | 879.47 | 44.74 |
| 468 | 881.37 | 44.94 |
| 469 | 883.27 | 45.17 |
| 470 | 885.17 | 45.36 |
| 471 | 887.08 | 45.50 |
| 472 | 888.98 | 45.73 |
| 473 | 890.88 | 45.81 |
| 474 | 892.78 | 45.83 |
| 475 | 894.69 | 45.88 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 476 | 896.59 | 45.97 |
| 477 | 898.49 | 46.05 |
| 478 | 900.39 | 46.04 |
| 479 | 902.30 | 46.02 |
| 480 | 904.20 | 45.97 |
| 481 | 905.78 | 45.89 |
| 482 | 907.36 | 45.83 |
| 483 | 908.94 | 45.80 |
| 484 | 910.52 | 45.79 |
| 485 | 912.11 | 45.78 |
| 486 | 913.69 | 45.63 |
| 487 | 915.27 | 45.45 |
| 488 | 916.85 | 45.29 |
| 489 | 918.43 | 45.08 |
| 490 | 920.01 | 44.82 |
| 491 | 921.59 | 44.57 |
| 492 | 923.18 | 44.30 |
| 493 | 924.76 | 43.97 |
| 494 | 926.34 | 43.71 |
| 495 | 927.92 | 43.55 |
| 496 | 929.50 | 43.75 |
| 497 | 931.08 | 44.06 |
| 498 | 932.66 | 44.35 |
| 499 | 934.25 | 44.58 |
| 500 | 935.83 | 44.75 |
| 501 | 937.41 | 44.93 |
| 502 | 938.99 | 45.10 |
| 503 | 940.57 | 45.28 |
| 504 | 942.15 | 45.41 |
| 505 | 943.73 | 45.47 |
| 506 | 945.32 | 45.49 |
| 507 | 946.90 | 45.50 |
| 508 | 948.48 | 45.54 |
| 509 | 950.06 | 45.61 |
| 510 | 951.64 | 45.68 |
| 511 | 953.22 | 45.70 |
| 512 | 954.80 | 45.71 |
| 513 | 956.39 | 45.65 |
| 514 | 957.97 | 45.59 |
| 515 | 959.55 | 45.55 |
| 516 | 961.13 | 45.53 |
| 517 | 962.71 | 45.52 |
| 518 | 964.29 | 45.58 |
| 519 | 965.87 | 45.67 |
| 520 | 967.46 | 45.64 |
| 521 | 969.04 | 45.54 |
| 522 | 970.62 | 45.31 |
| 523 | 972.20 | 45.03 |
| 524 | 973.78 | 44.71 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 525 | 975.36 | 44.52 |
| 526 | 976.94 | 44.26 |
| 527 | 978.53 | 43.87 |
| 528 | 980.11 | 43.63 |
| 529 | 981.69 | 43.53 |
| 530 | 983.27 | 43.84 |
| 531 | 984.85 | 44.18 |
| 532 | 986.43 | 44.52 |
| 533 | 988.01 | 44.81 |
| 534 | 989.60 | 45.05 |
| 535 | 991.18 | 45.32 |
| 536 | 992.76 | 45.61 |
| 537 | 994.34 | 45.69 |
| 538 | 995.92 | 45.73 |
| 539 | 997.50 | 45.70 |
| 540 | 999.09 | 45.65 |
| 541 | 1000.67 | 45.61 |
| 542 | 1002.25 | 45.65 |
| 543 | 1003.83 | 45.69 |
| 544 | 1005.41 | 45.74 |
| 545 | 1007.18 | 45.74 |
| 546 | 1008.94 | 45.71 |
| 547 | 1010.71 | 45.65 |
| 548 | 1012.48 | 45.60 |
| 549 | 1014.24 | 45.57 |
| 550 | 1016.01 | 45.59 |
| 551 | 1017.78 | 45.66 |
| 552 | 1019.54 | 45.65 |
| 553 | 1021.31 | 45.56 |
| 554 | 1023.08 | 45.37 |
| 555 | 1024.84 | 45.03 |
| 556 | 1026.61 | 44.63 |
| 557 | 1028.37 | 44.32 |
| 558 | 1030.14 | 43.95 |
| 559 | 1031.91 | 43.65 |
| 560 | 1033.67 | 43.51 |
| 561 | 1035.44 | 43.74 |
| 562 | 1037.21 | 44.03 |
| 563 | 1038.97 | 44.37 |
| 564 | 1040.74 | 44.68 |
| 565 | 1042.51 | 45.00 |
| 566 | 1044.27 | 45.25 |
| 567 | 1046.04 | 45.31 |
| 568 | 1047.81 | 45.21 |
| 569 | 1049.57 | 45.09 |
| 570 | 1051.34 | 45.02 |
| 571 | 1053.10 | 45.06 |
| 572 | 1054.87 | 45.09 |
| 573 | 1056.64 | 45.11 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 574 | 1058.40 | 45.07 |
| 575 | 1060.17 | 45.05 |
| 576 | 1061.94 | 45.03 |
| 577 | 1063.74 | 45.02 |
| 578 | 1065.55 | 44.97 |
| 579 | 1067.36 | 44.92 |
| 580 | 1069.16 | 44.89 |
| 581 | 1070.97 | 44.92 |
| 582 | 1072.77 | 44.94 |
| 583 | 1074.58 | 44.92 |
| 584 | 1076.39 | 44.87 |
| 585 | 1078.19 | 44.77 |
| 586 | 1080.00 | 44.62 |
| 587 | 1081.81 | 44.36 |
| 588 | 1083.61 | 44.06 |
| 589 | 1085.42 | 43.61 |
| 590 | 1087.22 | 43.21 |
| 591 | 1089.03 | 42.99 |
| 592 | 1090.84 | 43.00 |
| 593 | 1092.64 | 43.30 |
| 594 | 1094.45 | 43.70 |
| 595 | 1096.25 | 44.15 |
| 596 | 1098.06 | 44.51 |
| 597 | 1099.87 | 44.79 |
| 598 | 1101.67 | 44.98 |
| 599 | 1103.48 | 45.04 |
| 600 | 1105.29 | 45.13 |
| 601 | 1107.09 | 45.32 |
| 602 | 1108.90 | 45.38 |
| 603 | 1110.70 | 45.43 |
| 604 | 1112.51 | 45.48 |
| 605 | 1114.32 | 45.61 |
| 606 | 1116.12 | 45.70 |
| 607 | 1117.93 | 45.68 |
| 608 | 1119.74 | 45.66 |
| 609 | 1121.52 | 45.63 |
| 610 | 1123.31 | 45.59 |
| 611 | 1125.09 | 45.66 |
| 612 | 1126.88 | 45.68 |
| 613 | 1128.67 | 45.65 |
| 614 | 1130.45 | 45.55 |
| 615 | 1132.24 | 45.52 |
| 616 | 1134.03 | 45.50 |
| 617 | 1135.81 | 45.44 |
| 618 | 1137.60 | 45.33 |
| 619 | 1139.39 | 45.25 |
| 620 | 1141.17 | 45.21 |
| 621 | 1142.96 | 44.79 |
| 622 | 1144.75 | 44.27 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 623 | 1146.53 | 43.80 |
| 624 | 1148.32 | 43.83 |
| 625 | 1150.11 | 44.16 |
| 626 | 1151.89 | 44.61 |
| 627 | 1153.68 | 45.12 |
| 628 | 1155.47 | 45.44 |
| 629 | 1157.25 | 45.63 |
| 630 | 1159.04 | 45.70 |
| 631 | 1160.83 | 45.76 |
| 632 | 1162.61 | 45.93 |
| 633 | 1164.40 | 46.12 |
| 634 | 1166.19 | 46.14 |
| 635 | 1167.97 | 46.12 |
| 636 | 1169.76 | 46.08 |
| 637 | 1171.55 | 46.04 |
| 638 | 1173.33 | 46.02 |
| 639 | 1175.12 | 46.05 |
| 640 | 1176.91 | 46.12 |
| 641 | 1179.26 | 46.16 |
| 642 | 1181.61 | 45.97 |
| 643 | 1183.96 | 45.82 |
| 644 | 1186.31 | 45.57 |
| 645 | 1188.67 | 45.33 |
| 646 | 1191.02 | 45.00 |
| 647 | 1193.37 | 44.54 |
| 648 | 1195.72 | 44.07 |
| 649 | 1198.07 | 43.84 |
| 650 | 1200.42 | 44.11 |
| 651 | 1202.78 | 44.69 |
| 652 | 1205.13 | 45.23 |
| 653 | 1207.48 | 45.40 |
| 654 | 1209.83 | 45.59 |
| 655 | 1212.18 | 45.79 |
| 656 | 1214.54 | 45.86 |
| 657 | 1216.89 | 45.89 |
| 658 | 1219.24 | 45.90 |
| 659 | 1221.59 | 45.98 |
| 660 | 1223.94 | 46.07 |
| 661 | 1226.30 | 46.04 |
| 662 | 1228.65 | 45.94 |
| 663 | 1231.00 | 45.90 |
| 664 | 1233.35 | 45.88 |
| 665 | 1235.70 | 45.78 |
| 666 | 1238.05 | 45.69 |
| 667 | 1240.41 | 45.60 |
| 668 | 1242.76 | 45.58 |
| 669 | 1245.11 | 44.96 |
| 670 | 1247.46 | 44.03 |
| 671 | 1249.81 | 43.67 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 672 | 1252.17 | 43.97 |
| 673 | 1254.52 | 44.61 |
| 674 | 1256.87 | 45.22 |
| 675 | 1259.22 | 45.56 |
| 676 | 1261.57 | 45.69 |
| 677 | 1263.93 | 45.79 |
| 678 | 1266.28 | 45.86 |
| 679 | 1268.63 | 45.87 |
| 680 | 1270.98 | 45.89 |
| 681 | 1273.33 | 45.88 |
| 682 | 1275.68 | 45.81 |
| 683 | 1278.04 | 45.81 |
| 684 | 1280.39 | 45.73 |
| 685 | 1282.74 | 45.65 |
| 686 | 1285.09 | 45.57 |
| 687 | 1287.44 | 45.48 |
| 688 | 1289.80 | 45.33 |
| 689 | 1292.15 | 45.11 |
| 690 | 1294.50 | 44.72 |
| 691 | 1296.85 | 43.90 |
| 692 | 1299.20 | 43.40 |
| 693 | 1301.56 | 43.55 |
| 694 | 1303.91 | 44.14 |
| 695 | 1306.26 | 44.88 |
| 696 | 1308.61 | 45.32 |
| 697 | 1310.96 | 45.49 |
| 698 | 1313.31 | 45.60 |
| 699 | 1315.67 | 45.72 |
| 700 | 1318.02 | 45.76 |
| 701 | 1320.37 | 45.73 |
| 702 | 1322.72 | 45.76 |
| 703 | 1325.07 | 45.78 |
| 704 | 1327.43 | 45.82 |
| 705 | 1329.67 | 45.71 |
| 706 | 1331.92 | 45.63 |
| 707 | 1334.16 | 45.53 |
| 708 | 1336.41 | 45.49 |
| 709 | 1338.65 | 45.49 |
| 710 | 1340.90 | 45.48 |
| 711 | 1343.14 | 45.37 |
| 712 | 1345.39 | 45.22 |
| 713 | 1347.63 | 45.05 |
| 714 | 1349.88 | 44.81 |
| 715 | 1352.12 | 44.37 |
| 716 | 1354.37 | 43.85 |
| 717 | 1356.61 | 43.52 |
| 718 | 1358.86 | 43.52 |
| 719 | 1361.10 | 43.78 |
| 720 | 1363.35 | 44.38 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 721 | 1365.59 | 44.87 |
| 722 | 1367.84 | 45.25 |
| 723 | 1370.08 | 45.55 |
| 724 | 1372.33 | 45.75 |
| 725 | 1374.57 | 45.82 |
| 726 | 1376.82 | 45.81 |
| 727 | 1379.06 | 45.82 |
| 728 | 1381.31 | 45.91 |
| 729 | 1383.55 | 45.94 |
| 730 | 1385.80 | 45.98 |
| 731 | 1388.04 | 45.98 |
| 732 | 1390.29 | 45.96 |
| 733 | 1392.53 | 45.95 |
| 734 | 1394.78 | 45.91 |
| 735 | 1397.02 | 45.83 |
| 736 | 1399.27 | 45.75 |
| 737 | 1401.51 | 45.70 |
| 738 | 1403.76 | 45.61 |
| 739 | 1406.00 | 45.54 |
| 740 | 1408.25 | 45.60 |
| 741 | 1410.49 | 45.49 |
| 742 | 1412.74 | 45.35 |
| 743 | 1414.98 | 45.15 |
| 744 | 1417.23 | 44.85 |
| 745 | 1419.47 | 44.40 |
| 746 | 1421.72 | 43.76 |
| 747 | 1423.96 | 43.24 |
| 748 | 1426.21 | 42.87 |
| 749 | 1428.45 | 43.17 |
| 750 | 1430.70 | 43.56 |
| 751 | 1432.94 | 43.97 |
| 752 | 1435.19 | 44.37 |
| 753 | 1437.43 | 44.78 |
| 754 | 1439.68 | 45.13 |
| 755 | 1441.92 | 45.11 |
| 756 | 1444.17 | 45.22 |
| 757 | 1446.41 | 45.37 |
| 758 | 1448.66 | 45.48 |
| 759 | 1450.90 | 45.50 |
| 760 | 1453.15 | 45.51 |
| 761 | 1455.39 | 45.64 |
| 762 | 1457.64 | 45.70 |
| 763 | 1459.88 | 45.72 |
| 764 | 1462.13 | 45.80 |
| 765 | 1464.37 | 45.81 |
| 766 | 1466.62 | 45.75 |
| 767 | 1468.86 | 45.59 |
| 768 | 1471.11 | 45.52 |
| 769 | 1472.81 | 45.51 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 770 | 1474.51 | 45.49 |
| 771 | 1476.21 | 45.47 |
| 772 | 1477.91 | 45.46 |
| 773 | 1479.61 | 45.46 |
| 774 | 1481.31 | 45.49 |
| 775 | 1483.01 | 45.45 |
| 776 | 1484.71 | 45.43 |
| 777 | 1486.41 | 45.47 |
| 778 | 1488.11 | 45.48 |
| 779 | 1489.80 | 45.47 |
| 780 | 1491.50 | 45.47 |
| 781 | 1493.20 | 45.52 |
| 782 | 1494.90 | 45.54 |
| 783 | 1496.60 | 45.53 |
| 784 | 1498.30 | 45.51 |
| 785 | 1500.00 | 45.53 |
| 786 | 1501.70 | 45.59 |
| 787 | 1503.40 | 45.63 |
| 788 | 1505.10 | 45.66 |
| 789 | 1506.80 | 45.67 |
| 790 | 1508.50 | 45.65 |
| 791 | 1510.20 | 45.64 |
| 792 | 1511.90 | 45.63 |
| 793 | 1513.60 | 45.64 |
| 794 | 1515.30 | 45.68 |
| 795 | 1517.00 | 45.70 |
| 796 | 1518.70 | 45.66 |
| 797 | 1520.40 | 45.61 |
| 798 | 1522.10 | 45.57 |
| 799 | 1523.80 | 45.57 |
| 800 | 1525.50 | 45.53 |
| 801 | 1527.20 | 45.52 |
| 802 | 1528.90 | 45.56 |
| 803 | 1530.60 | 45.54 |
| 804 | 1532.30 | 45.52 |
| 805 | 1533.99 | 45.49 |
| 806 | 1535.69 | 45.64 |
| 807 | 1537.39 | 45.81 |
| 808 | 1539.09 | 45.99 |
| 809 | 1540.79 | 46.04 |
| 810 | 1542.49 | 45.98 |
| 811 | 1544.19 | 45.84 |
| 812 | 1545.89 | 45.63 |
| 813 | 1547.59 | 45.52 |
| 814 | 1549.29 | 45.48 |
| 815 | 1550.99 | 45.46 |
| 816 | 1552.69 | 45.49 |
| 817 | 1554.39 | 45.56 |
| 818 | 1556.09 | 45.69 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 819 | 1557.79 | 45.71 |
| 820 | 1559.49 | 45.74 |
| 821 | 1561.19 | 45.88 |
| 822 | 1562.89 | 46.05 |
| 823 | 1564.59 | 46.28 |
| 824 | 1566.29 | 46.61 |
| 825 | 1567.99 | 46.87 |
| 826 | 1569.69 | 47.04 |
| 827 | 1571.39 | 47.10 |
| 828 | 1573.09 | 47.01 |
| 829 | 1574.79 | 46.75 |
| 830 | 1576.49 | 46.31 |
| 831 | 1578.19 | 46.09 |
| 832 | 1579.88 | 45.93 |
| 833 | 1581.58 | 45.82 |
| 834 | 1583.28 | 45.74 |
| 835 | 1584.98 | 45.62 |
| 836 | 1586.68 | 45.48 |
| 837 | 1588.38 | 45.61 |
| 838 | 1590.08 | 45.55 |
| 839 | 1591.78 | 45.40 |
| 840 | 1593.48 | 45.33 |
| 841 | 1595.18 | 45.38 |
| 842 | 1596.88 | 45.48 |
| 843 | 1598.58 | 45.58 |
| 844 | 1600.28 | 45.66 |
| 845 | 1601.98 | 45.69 |
| 846 | 1603.68 | 45.59 |
| 847 | 1605.38 | 45.59 |
| 848 | 1607.08 | 45.64 |
| 849 | 1608.78 | 45.74 |
| 850 | 1610.48 | 45.75 |
| 851 | 1612.18 | 45.74 |
| 852 | 1613.88 | 45.73 |
| 853 | 1615.58 | 45.64 |
| 854 | 1617.28 | 45.58 |
| 855 | 1618.98 | 45.57 |
| 856 | 1620.68 | 45.66 |
| 857 | 1622.38 | 45.77 |
| 858 | 1624.07 | 45.88 |
| 859 | 1625.77 | 45.88 |
| 860 | 1627.47 | 45.82 |
| 861 | 1629.17 | 45.73 |
| 862 | 1630.87 | 45.70 |
| 863 | 1632.57 | 45.71 |
| 864 | 1634.27 | 45.75 |
| 865 | 1635.97 | 45.84 |
| 866 | 1637.67 | 45.98 |
| 867 | 1639.37 | 46.13 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 868 | 1641.07 | 46.26 |
| 869 | 1642.77 | 46.43 |
| 870 | 1644.47 | 46.62 |
| 871 | 1646.17 | 46.78 |
| 872 | 1647.87 | 46.62 |
| 873 | 1649.57 | 46.34 |
| 874 | 1651.27 | 46.01 |
| 875 | 1652.97 | 45.86 |
| 876 | 1654.67 | 45.81 |
| 877 | 1656.37 | 45.90 |
| 878 | 1658.07 | 45.97 |
| 879 | 1659.77 | 45.92 |
| 880 | 1661.47 | 45.70 |
| 881 | 1663.17 | 45.61 |
| 882 | 1664.87 | 45.61 |
| 883 | 1666.57 | 45.69 |
| 884 | 1668.27 | 45.74 |
| 885 | 1669.96 | 45.75 |
| 886 | 1671.66 | 45.71 |
| 887 | 1673.36 | 45.83 |
| 888 | 1675.06 | 46.12 |
| 889 | 1676.76 | 46.59 |
| 890 | 1678.46 | 47.26 |
| 891 | 1680.16 | 47.60 |
| 892 | 1681.86 | 47.69 |
| 893 | 1683.56 | 47.55 |
| 894 | 1685.26 | 47.30 |
| 895 | 1686.96 | 46.97 |
| 896 | 1688.66 | 46.48 |
| 897 | 1690.33 | 46.28 |
| 898 | 1692.00 | 45.93 |
| 899 | 1693.67 | 45.96 |
| 900 | 1695.34 | 46.02 |
| 901 | 1697.01 | 46.11 |
| 902 | 1698.68 | 46.04 |
| 903 | 1700.35 | 46.03 |
| 904 | 1702.02 | 46.13 |
| 905 | 1703.69 | 45.89 |
| 906 | 1705.36 | 45.62 |
| 907 | 1707.03 | 45.39 |
| 908 | 1708.70 | 45.16 |
| 909 | 1710.37 | 44.99 |
| 910 | 1712.04 | 44.92 |
| 911 | 1713.72 | 45.03 |
| 912 | 1715.39 | 45.17 |
| 913 | 1717.06 | 45.26 |
| 914 | 1718.73 | 45.18 |
| 915 | 1720.40 | 45.01 |
| 916 | 1722.07 | 44.86 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 917 | 1723.74 | 44.78 |
| 918 | 1725.41 | 44.71 |
| 919 | 1727.08 | 44.57 |
| 920 | 1728.75 | 44.47 |
| 921 | 1730.42 | 44.39 |
| 922 | 1732.09 | 44.39 |
| 923 | 1733.76 | 44.42 |
| 924 | 1735.43 | 44.48 |
| 925 | 1737.10 | 44.50 |
| 926 | 1738.77 | 44.74 |
| 927 | 1740.44 | 45.11 |
| 928 | 1742.11 | 45.08 |
| 929 | 1744.00 | 44.97 |
| 930 | 1745.89 | 44.84 |
| 931 | 1747.78 | 44.69 |
| 932 | 1749.67 | 44.32 |
| 933 | 1751.55 | 44.27 |
| 934 | 1753.44 | 44.37 |
| 935 | 1755.33 | 44.67 |
| 936 | 1757.22 | 44.99 |
| 937 | 1759.11 | 45.18 |
| 938 | 1761.00 | 45.32 |
| 939 | 1762.89 | 45.40 |
| 940 | 1764.77 | 45.62 |
| 941 | 1766.66 | 45.72 |
| 942 | 1768.55 | 45.73 |
| 943 | 1770.44 | 45.73 |
| 944 | 1772.33 | 45.41 |
| 945 | 1774.22 | 45.22 |
| 946 | 1776.11 | 45.27 |
| 947 | 1777.99 | 45.43 |
| 948 | 1779.88 | 45.57 |
| 949 | 1781.77 | 45.59 |
| 950 | 1783.66 | 45.62 |
| 951 | 1785.55 | 45.87 |
| 952 | 1787.44 | 46.06 |
| 953 | 1789.33 | 46.01 |
| 954 | 1791.22 | 45.94 |
| 955 | 1793.10 | 45.89 |
| 956 | 1794.99 | 46.35 |
| 957 | 1796.88 | 46.90 |
| 958 | 1798.77 | 47.25 |
| 959 | 1800.66 | 47.38 |
| 960 | 1802.55 | 47.52 |
| 961 | 1804.15 | 47.48 |
| 962 | 1805.74 | 47.38 |
| 963 | 1807.34 | 47.24 |
| 964 | 1808.94 | 46.84 |
| 965 | 1810.54 | 46.53 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 966 | 1812.14 | 46.32 |
| 967 | 1813.74 | 46.22 |
| 968 | 1815.34 | 46.19 |
| 969 | 1816.94 | 46.26 |
| 970 | 1818.54 | 46.37 |
| 971 | 1820.14 | 46.48 |
| 972 | 1821.74 | 46.60 |
| 973 | 1823.33 | 46.49 |
| 974 | 1824.93 | 46.28 |
| 975 | 1826.53 | 46.14 |
| 976 | 1828.13 | 46.05 |
| 977 | 1829.73 | 46.01 |
| 978 | 1831.33 | 45.94 |
| 979 | 1832.93 | 45.89 |
| 980 | 1834.53 | 45.89 |
| 981 | 1836.13 | 45.67 |
| 982 | 1837.73 | 45.54 |
| 983 | 1839.32 | 45.83 |
| 984 | 1840.92 | 45.95 |
| 985 | 1842.52 | 45.98 |
| 986 | 1844.12 | 45.92 |
| 987 | 1845.72 | 45.98 |
| 988 | 1847.32 | 46.13 |
| 989 | 1848.92 | 46.13 |
| 990 | 1850.52 | 46.13 |
| 991 | 1852.12 | 46.11 |
| 992 | 1853.72 | 45.87 |
| 993 | 1855.32 | 45.69 |
| 994 | 1856.91 | 45.74 |
| 995 | 1858.51 | 45.70 |
| 996 | 1860.11 | 45.64 |
| 997 | 1861.71 | 45.67 |
| 998 | 1863.31 | 45.63 |
| 999 | 1864.91 | 45.54 |
| 1000 | 1866.51 | 45.46 |
| 1001 | 1868.11 | 45.42 |
| 1002 | 1869.71 | 45.45 |
| 1003 | 1871.31 | 45.50 |
| 1004 | 1872.90 | 45.54 |
| 1005 | 1874.50 | 45.54 |
| 1006 | 1876.10 | 45.63 |
| 1007 | 1877.70 | 45.76 |
| 1008 | 1879.30 | 45.94 |
| 1009 | 1880.90 | 46.01 |
| 1010 | 1882.50 | 46.00 |
| 1011 | 1884.10 | 45.81 |
| 1012 | 1885.70 | 45.80 |
| 1013 | 1887.30 | 45.97 |
| 1014 | 1888.90 | 46.00 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1015 | 1890.49 | 45.98 |
| 1016 | 1892.09 | 45.86 |
| 1017 | 1893.69 | 45.81 |
| 1018 | 1895.29 | 45.81 |
| 1019 | 1896.89 | 45.91 |
| 1020 | 1898.49 | 46.02 |
| 1021 | 1900.09 | 46.10 |
| 1022 | 1901.69 | 46.03 |
| 1023 | 1903.29 | 45.90 |
| 1024 | 1904.89 | 45.74 |
| 1025 | 1906.48 | 45.63 |
| 1026 | 1908.08 | 45.60 |
| 1027 | 1909.68 | 45.65 |
| 1028 | 1911.28 | 45.71 |
| 1029 | 1912.88 | 45.76 |
| 1030 | 1914.48 | 45.80 |
| 1031 | 1916.08 | 45.98 |
| 1032 | 1917.68 | 46.19 |
| 1033 | 1919.28 | 46.33 |
| 1034 | 1920.88 | 46.38 |
| 1035 | 1922.48 | 46.38 |
| 1036 | 1924.07 | 46.53 |
| 1037 | 1925.67 | 46.37 |
| 1038 | 1927.27 | 45.89 |
| 1039 | 1928.87 | 45.77 |
| 1040 | 1930.47 | 45.73 |
| 1041 | 1932.07 | 45.82 |
| 1042 | 1933.67 | 45.83 |
| 1043 | 1935.27 | 45.81 |
| 1044 | 1936.87 | 45.70 |
| 1045 | 1938.47 | 45.69 |
| 1046 | 1940.07 | 45.73 |
| 1047 | 1941.66 | 45.74 |
| 1048 | 1943.26 | 45.72 |
| 1049 | 1944.86 | 45.68 |
| 1050 | 1946.46 | 45.76 |
| 1051 | 1948.06 | 45.82 |
| 1052 | 1949.66 | 45.87 |
| 1053 | 1951.26 | 45.91 |
| 1054 | 1952.86 | 45.94 |
| 1055 | 1954.46 | 45.92 |
| 1056 | 1956.06 | 45.83 |
| 1057 | 1957.65 | 45.72 |
| 1058 | 1959.25 | 45.67 |
| 1059 | 1960.85 | 45.63 |
| 1060 | 1962.45 | 45.61 |
| 1061 | 1964.05 | 45.91 |
| 1062 | 1965.65 | 46.06 |
| 1063 | 1967.25 | 46.03 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1064 | 1968.85 | 45.83 |
| 1065 | 1970.45 | 45.63 |
| 1066 | 1972.05 | 45.49 |
| 1067 | 1973.65 | 45.54 |
| 1068 | 1975.24 | 45.61 |
| 1069 | 1976.84 | 45.62 |
| 1070 | 1978.44 | 45.66 |
| 1071 | 1980.04 | 45.70 |
| 1072 | 1981.64 | 45.68 |
| 1073 | 1983.24 | 45.67 |
| 1074 | 1984.84 | 45.65 |
| 1075 | 1986.44 | 45.64 |
| 1076 | 1988.04 | 45.59 |
| 1077 | 1989.64 | 45.49 |
| 1078 | 1991.23 | 45.54 |
| 1079 | 1992.83 | 45.57 |
| 1080 | 1994.43 | 45.49 |
| 1081 | 1996.03 | 45.51 |
| 1082 | 1997.63 | 45.57 |
| 1083 | 1999.23 | 45.60 |
| 1084 | 2000.83 | 45.59 |
| 1085 | 2002.43 | 45.53 |
| 1086 | 2004.03 | 45.56 |
| 1087 | 2005.63 | 45.52 |
| 1088 | 2007.23 | 45.44 |
| 1089 | 2008.82 | 45.46 |
| 1090 | 2010.42 | 45.50 |
| 1091 | 2012.02 | 45.52 |
| 1092 | 2013.62 | 45.55 |
| 1093 | 2015.22 | 45.58 |
| 1094 | 2016.82 | 45.59 |
| 1095 | 2018.42 | 45.64 |
| 1096 | 2020.02 | 45.71 |
| 1097 | 2021.62 | 45.79 |
| 1098 | 2023.22 | 45.79 |
| 1099 | 2024.81 | 45.72 |
| 1100 | 2026.41 | 45.65 |
| 1101 | 2028.01 | 45.65 |
| 1102 | 2029.61 | 45.79 |
| 1103 | 2031.21 | 45.78 |
| 1104 | 2032.81 | 45.74 |
| 1105 | 2034.41 | 45.67 |
| 1106 | 2036.01 | 45.70 |
| 1107 | 2037.61 | 45.77 |
| 1108 | 2039.21 | 45.85 |
| 1109 | 2040.81 | 45.84 |
| 1110 | 2042.40 | 45.78 |
| 1111 | 2044.00 | 45.78 |
| 1112 | 2045.60 | 45.74 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1113 | 2047.20 | 45.65 |
| 1114 | 2048.80 | 45.69 |
| 1115 | 2050.40 | 45.72 |
| 1116 | 2052.00 | 45.72 |
| 1117 | 2053.60 | 45.91 |
| 1118 | 2055.20 | 46.13 |
| 1119 | 2056.80 | 46.15 |
| 1120 | 2058.39 | 45.99 |
| 1121 | 2059.99 | 45.74 |
| 1122 | 2061.59 | 45.82 |
| 1123 | 2063.19 | 45.89 |
| 1124 | 2064.79 | 45.97 |
| 1125 | 2066.39 | 46.10 |
| 1126 | 2067.99 | 46.18 |
| 1127 | 2069.59 | 46.14 |
| 1128 | 2071.19 | 45.94 |
| 1129 | 2072.79 | 45.74 |
| 1130 | 2074.39 | 45.62 |
| 1131 | 2075.98 | 45.66 |
| 1132 | 2077.58 | 45.76 |
| 1133 | 2079.18 | 45.72 |
| 1134 | 2080.78 | 45.72 |
| 1135 | 2082.38 | 45.77 |
| 1136 | 2083.98 | 45.73 |
| 1137 | 2085.58 | 45.73 |
| 1138 | 2087.18 | 45.80 |
| 1139 | 2088.78 | 45.83 |
| 1140 | 2090.38 | 45.84 |
| 1141 | 2091.97 | 45.75 |
| 1142 | 2093.57 | 45.67 |
| 1143 | 2095.17 | 45.60 |
| 1144 | 2096.77 | 45.56 |
| 1145 | 2098.37 | 45.51 |
| 1146 | 2099.97 | 45.45 |
| 1147 | 2101.57 | 45.46 |
| 1148 | 2103.17 | 45.45 |
| 1149 | 2104.77 | 45.41 |
| 1150 | 2106.37 | 45.54 |
| 1151 | 2107.97 | 45.63 |
| 1152 | 2109.56 | 45.60 |
| 1153 | 2111.16 | 45.68 |
| 1154 | 2112.76 | 45.75 |
| 1155 | 2114.36 | 45.69 |
| 1156 | 2115.96 | 45.67 |
| 1157 | 2117.56 | 45.68 |
| 1158 | 2119.16 | 45.76 |
| 1159 | 2120.76 | 45.79 |
| 1160 | 2122.36 | 45.77 |
| 1161 | 2123.96 | 45.72 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1162 | 2125.55 | 45.68 |
| 1163 | 2127.15 | 45.64 |
| 1164 | 2128.75 | 45.65 |
| 1165 | 2130.35 | 45.67 |
| 1166 | 2131.95 | 45.69 |
| 1167 | 2133.55 | 45.70 |
| 1168 | 2135.15 | 45.68 |
| 1169 | 2136.75 | 45.55 |
| 1170 | 2138.35 | 45.47 |
| 1171 | 2139.95 | 45.41 |
| 1172 | 2141.55 | 45.46 |
| 1173 | 2143.14 | 45.51 |
| 1174 | 2144.74 | 45.58 |
| 1175 | 2146.34 | 45.61 |
| 1176 | 2147.94 | 45.61 |
| 1177 | 2149.54 | 45.56 |
| 1178 | 2151.14 | 45.53 |
| 1179 | 2152.74 | 45.53 |
| 1180 | 2154.34 | 45.58 |
| 1181 | 2155.94 | 45.59 |
| 1182 | 2157.54 | 45.58 |
| 1183 | 2159.13 | 45.64 |
| 1184 | 2160.73 | 45.75 |
| 1185 | 2162.33 | 45.88 |
| 1186 | 2163.93 | 46.11 |
| 1187 | 2165.53 | 46.29 |
| 1188 | 2167.13 | 46.39 |
| 1189 | 2168.73 | 46.39 |
| 1190 | 2170.33 | 46.35 |
| 1191 | 2171.93 | 46.19 |
| 1192 | 2173.53 | 46.23 |
| 1193 | 2175.13 | 46.35 |
| 1194 | 2176.72 | 46.19 |
| 1195 | 2178.32 | 46.06 |
| 1196 | 2179.92 | 45.95 |
| 1197 | 2181.52 | 46.15 |
| 1198 | 2183.12 | 46.20 |
| 1199 | 2184.72 | 46.01 |
| 1200 | 2186.32 | 45.93 |
| 1201 | 2187.92 | 45.88 |
| 1202 | 2189.52 | 45.85 |
| 1203 | 2191.12 | 45.80 |
| 1204 | 2192.71 | 45.77 |
| 1205 | 2194.31 | 45.79 |
| 1206 | 2195.91 | 45.82 |
| 1207 | 2197.51 | 45.84 |
| 1208 | 2199.11 | 45.74 |
| 1209 | 2200.71 | 45.67 |
| 1210 | 2202.31 | 45.66 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1211 | 2203.91 | 45.78 |
| 1212 | 2205.51 | 45.90 |
| 1213 | 2207.11 | 46.00 |
| 1214 | 2208.71 | 46.02 |
| 1215 | 2210.30 | 46.02 |
| 1216 | 2211.90 | 46.06 |
| 1217 | 2214.28 | 46.22 |
| 1218 | 2216.66 | 46.28 |
| 1219 | 2219.04 | 46.26 |
| 1220 | 2221.42 | 46.06 |
| 1221 | 2223.80 | 45.85 |
| 1222 | 2226.18 | 45.71 |
| 1223 | 2228.56 | 45.58 |
| 1224 | 2230.94 | 45.48 |
| 1225 | 2233.32 | 45.43 |
| 1226 | 2235.70 | 45.67 |
| 1227 | 2238.08 | 45.63 |
| 1228 | 2240.46 | 45.60 |
| 1229 | 2242.84 | 45.52 |
| 1230 | 2245.22 | 45.47 |
| 1231 | 2247.60 | 45.34 |
| 1232 | 2249.99 | 45.29 |
| 1233 | 2252.37 | 45.35 |
| 1234 | 2254.75 | 45.39 |
| 1235 | 2257.13 | 45.37 |
| 1236 | 2259.51 | 45.31 |
| 1237 | 2261.89 | 45.27 |
| 1238 | 2264.27 | 45.27 |
| 1239 | 2266.65 | 45.27 |
| 1240 | 2269.03 | 45.28 |
| 1241 | 2271.41 | 45.27 |
| 1242 | 2273.79 | 45.30 |
| 1243 | 2276.17 | 45.35 |
| 1244 | 2278.55 | 45.37 |
| 1245 | 2280.93 | 45.36 |
| 1246 | 2283.31 | 45.34 |
| 1247 | 2285.69 | 45.35 |
| 1248 | 2288.07 | 45.26 |
| 1249 | 2290.45 | 45.28 |
| 1250 | 2292.83 | 45.41 |
| 1251 | 2295.21 | 45.39 |
| 1252 | 2297.59 | 45.46 |
| 1253 | 2299.97 | 45.49 |
| 1254 | 2302.35 | 45.42 |
| 1255 | 2304.73 | 45.37 |
| 1256 | 2307.11 | 45.35 |
| 1257 | 2309.49 | 45.42 |
| 1258 | 2311.87 | 45.48 |
| 1259 | 2314.25 | 45.50 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1260 | 2316.63 | 45.57 |
| 1261 | 2319.01 | 45.61 |
| 1262 | 2321.39 | 45.64 |
| 1263 | 2323.77 | 45.62 |
| 1264 | 2326.15 | 45.59 |
| 1265 | 2328.53 | 45.62 |
| 1266 | 2330.91 | 45.73 |
| 1267 | 2333.29 | 45.84 |
| 1268 | 2335.67 | 45.83 |
| 1269 | 2338.05 | 45.94 |
| 1270 | 2340.43 | 45.98 |
| 1271 | 2342.81 | 45.88 |
| 1272 | 2345.19 | 45.73 |
| 1273 | 2347.57 | 45.76 |
| 1274 | 2349.95 | 45.81 |
| 1275 | 2352.33 | 45.74 |
| 1276 | 2354.71 | 45.75 |
| 1277 | 2357.09 | 45.83 |
| 1278 | 2359.47 | 45.78 |
| 1279 | 2361.85 | 45.72 |
| 1280 | 2364.23 | 45.65 |
| 1281 | 2366.60 | 45.50 |
| 1282 | 2368.96 | 45.32 |
| 1283 | 2371.33 | 45.12 |
| 1284 | 2373.69 | 44.55 |
| 1285 | 2376.06 | 43.94 |
| 1286 | 2378.43 | 43.81 |
| 1287 | 2380.79 | 44.01 |
| 1288 | 2383.16 | 44.28 |
| 1289 | 2385.52 | 44.76 |
| 1290 | 2387.89 | 45.18 |
| 1291 | 2390.25 | 45.34 |
| 1292 | 2392.62 | 45.42 |
| 1293 | 2394.99 | 45.39 |
| 1294 | 2397.35 | 45.34 |
| 1295 | 2399.72 | 45.35 |
| 1296 | 2402.08 | 45.35 |
| 1297 | 2403.35 | 45.31 |
| 1298 | 2404.62 | 45.30 |
| 1299 | 2405.89 | 45.29 |
| 1300 | 2407.16 | 45.30 |
| 1301 | 2408.43 | 45.31 |
| 1302 | 2409.70 | 45.32 |
| 1303 | 2410.97 | 45.32 |
| 1304 | 2412.25 | 45.33 |
| 1305 | 2413.52 | 45.33 |
| 1306 | 2414.79 | 45.35 |
| 1307 | 2416.06 | 45.35 |
| 1308 | 2417.33 | 45.34 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1309 | 2418.60 | 45.32 |
| 1310 | 2419.87 | 45.32 |
| 1311 | 2421.14 | 45.32 |
| 1312 | 2422.41 | 45.32 |
| 1313 | 2423.68 | 45.33 |
| 1314 | 2424.95 | 45.35 |
| 1315 | 2426.22 | 45.36 |
| 1316 | 2427.49 | 45.34 |
| 1317 | 2428.76 | 45.31 |
| 1318 | 2430.03 | 45.29 |
| 1319 | 2431.30 | 45.27 |
| 1320 | 2432.57 | 45.27 |
| 1321 | 2433.84 | 45.28 |
| 1322 | 2435.11 | 45.30 |
| 1323 | 2436.38 | 45.30 |
| 1324 | 2437.65 | 45.29 |
| 1325 | 2438.92 | 45.27 |
| 1326 | 2440.19 | 45.24 |
| 1327 | 2441.46 | 45.23 |
| 1328 | 2442.73 | 45.24 |
| 1329 | 2444.00 | 45.27 |
| 1330 | 2445.27 | 45.32 |
| 1331 | 2446.54 | 45.35 |
| 1332 | 2447.81 | 45.35 |
| 1333 | 2449.08 | 45.33 |
| 1334 | 2450.35 | 45.31 |
| 1335 | 2451.62 | 45.29 |
| 1336 | 2452.89 | 45.28 |
| 1337 | 2454.16 | 45.29 |
| 1338 | 2455.43 | 45.30 |
| 1339 | 2456.70 | 45.30 |
| 1340 | 2457.97 | 45.30 |
| 1341 | 2459.24 | 45.29 |
| 1342 | 2460.51 | 45.27 |
| 1343 | 2461.78 | 45.25 |
| 1344 | 2463.05 | 45.24 |
| 1345 | 2464.32 | 45.28 |
| 1346 | 2465.59 | 45.33 |
| 1347 | 2466.86 | 45.36 |
| 1348 | 2468.13 | 45.37 |
| 1349 | 2469.40 | 45.30 |
| 1350 | 2470.67 | 45.22 |
| 1351 | 2471.94 | 45.19 |
| 1352 | 2473.21 | 45.15 |
| 1353 | 2474.48 | 45.20 |
| 1354 | 2475.75 | 45.25 |
| 1355 | 2477.02 | 45.23 |
| 1356 | 2478.29 | 45.21 |
| 1357 | 2479.56 | 45.17 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1358 | 2480.83 | 45.13 |
| 1359 | 2482.10 | 45.12 |
| 1360 | 2483.37 | 45.12 |
| 1361 | 2484.64 | 45.12 |
| 1362 | 2485.91 | 45.12 |
| 1363 | 2487.18 | 45.11 |
| 1364 | 2488.45 | 45.11 |
| 1365 | 2489.72 | 45.13 |
| 1366 | 2490.99 | 45.16 |
| 1367 | 2492.26 | 45.20 |
| 1368 | 2493.54 | 45.23 |
| 1369 | 2494.81 | 45.22 |
| 1370 | 2496.08 | 45.21 |
| 1371 | 2497.35 | 45.24 |
| 1372 | 2498.62 | 45.26 |
| 1373 | 2499.89 | 45.25 |
| 1374 | 2501.16 | 45.23 |
| 1375 | 2502.43 | 45.19 |
| 1376 | 2503.70 | 45.17 |
| 1377 | 2504.97 | 45.16 |
| 1378 | 2506.24 | 45.18 |
| 1379 | 2507.51 | 45.26 |
| 1380 | 2508.78 | 45.33 |
| 1381 | 2510.05 | 45.41 |
| 1382 | 2511.32 | 45.47 |
| 1383 | 2512.59 | 45.51 |
| 1384 | 2513.86 | 45.52 |
| 1385 | 2515.13 | 45.48 |
| 1386 | 2516.40 | 45.44 |
| 1387 | 2517.67 | 45.43 |
| 1388 | 2518.94 | 45.41 |
| 1389 | 2520.21 | 45.40 |
| 1390 | 2521.48 | 45.37 |
| 1391 | 2522.75 | 45.34 |
| 1392 | 2524.02 | 45.31 |
| 1393 | 2525.29 | 45.30 |
| 1394 | 2526.56 | 45.31 |
| 1395 | 2527.83 | 45.35 |
| 1396 | 2529.10 | 45.39 |
| 1397 | 2530.37 | 45.41 |
| 1398 | 2531.64 | 45.39 |
| 1399 | 2532.91 | 45.31 |
| 1400 | 2534.18 | 45.26 |
| 1401 | 2535.45 | 45.24 |
| 1402 | 2536.72 | 45.24 |
| 1403 | 2537.99 | 45.25 |
| 1404 | 2539.26 | 45.27 |
| 1405 | 2540.53 | 45.30 |
| 1406 | 2541.80 | 45.32 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1407 | 2543.07 | 45.34 |
| 1408 | 2544.34 | 45.35 |
| 1409 | 2545.61 | 45.38 |
| 1410 | 2546.88 | 45.44 |
| 1411 | 2548.15 | 45.51 |
| 1412 | 2549.42 | 45.63 |
| 1413 | 2550.69 | 45.76 |
| 1414 | 2551.96 | 45.83 |
| 1415 | 2553.23 | 45.88 |
| 1416 | 2554.50 | 45.88 |
| 1417 | 2555.77 | 45.87 |
| 1418 | 2557.04 | 45.84 |
| 1419 | 2558.31 | 45.81 |
| 1420 | 2559.58 | 45.79 |
| 1421 | 2560.85 | 45.78 |
| 1422 | 2562.12 | 45.73 |
| 1423 | 2563.39 | 45.68 |
| 1424 | 2564.66 | 45.66 |
| 1425 | 2565.93 | 45.65 |
| 1426 | 2567.20 | 45.67 |
| 1427 | 2568.47 | 45.69 |
| 1428 | 2569.74 | 45.73 |
| 1429 | 2571.01 | 45.78 |
| 1430 | 2572.28 | 45.89 |
| 1431 | 2573.55 | 46.01 |
| 1432 | 2574.82 | 46.11 |
| 1433 | 2576.10 | 46.21 |
| 1434 | 2577.37 | 46.17 |
| 1435 | 2578.64 | 46.13 |
| 1436 | 2579.91 | 46.14 |
| 1437 | 2581.18 | 46.14 |
| 1438 | 2582.45 | 46.09 |
| 1439 | 2583.72 | 46.04 |
| 1440 | 2584.99 | 46.00 |
| 1441 | 2586.26 | 45.96 |
| 1442 | 2587.53 | 45.95 |
| 1443 | 2588.80 | 45.95 |
| 1444 | 2590.07 | 45.98 |
| 1445 | 2591.34 | 45.99 |
| 1446 | 2592.61 | 45.93 |
| 1447 | 2593.88 | 45.90 |
| 1448 | 2595.15 | 45.95 |
| 1449 | 2596.42 | 46.01 |
| 1450 | 2597.69 | 46.09 |
| 1451 | 2598.96 | 46.15 |
| 1452 | 2600.23 | 46.14 |
| 1453 | 2601.50 | 46.13 |
| 1454 | 2602.77 | 46.14 |
| 1455 | 2604.04 | 46.15 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1456 | 2605.31 | 46.15 |
| 1457 | 2606.58 | 46.11 |
| 1458 | 2607.85 | 46.00 |
| 1459 | 2609.12 | 45.93 |
| 1460 | 2610.39 | 45.93 |
| 1461 | 2611.66 | 45.93 |
| 1462 | 2612.93 | 45.94 |
| 1463 | 2614.20 | 45.95 |
| 1464 | 2615.47 | 45.97 |
| 1465 | 2616.74 | 46.01 |
| 1466 | 2618.01 | 46.08 |
| 1467 | 2619.28 | 46.11 |
| 1468 | 2620.55 | 46.10 |
| 1469 | 2621.82 | 46.08 |
| 1470 | 2623.09 | 46.05 |
| 1471 | 2624.36 | 46.04 |
| 1472 | 2625.63 | 46.02 |
| 1473 | 2626.90 | 45.95 |
| 1474 | 2628.17 | 45.85 |
| 1475 | 2629.44 | 45.80 |
| 1476 | 2630.71 | 45.81 |
| 1477 | 2631.98 | 45.80 |
| 1478 | 2633.25 | 45.78 |
| 1479 | 2634.52 | 45.82 |
| 1480 | 2635.79 | 45.88 |
| 1481 | 2637.06 | 46.13 |
| 1482 | 2638.33 | 46.46 |
| 1483 | 2639.60 | 46.62 |
| 1484 | 2640.87 | 46.72 |
| 1485 | 2642.14 | 46.55 |
| 1486 | 2643.41 | 46.27 |
| 1487 | 2644.68 | 46.09 |
| 1488 | 2645.95 | 45.94 |
| 1489 | 2647.22 | 45.83 |
| 1490 | 2648.49 | 45.75 |
| 1491 | 2649.76 | 45.70 |
| 1492 | 2651.03 | 45.66 |
| 1493 | 2652.30 | 45.59 |
| 1494 | 2653.57 | 45.50 |
| 1495 | 2654.84 | 45.49 |
| 1496 | 2656.11 | 45.51 |
| 1497 | 2657.39 | 45.58 |
| 1498 | 2658.66 | 45.66 |
| 1499 | 2659.93 | 45.69 |
| 1500 | 2661.20 | 45.71 |
| 1501 | 2662.47 | 45.72 |
| 1502 | 2663.74 | 45.73 |
| 1503 | 2665.01 | 45.76 |
| 1504 | 2666.28 | 45.79 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1505 | 2667.55 | 45.90 |
| 1506 | 2668.82 | 45.99 |
| 1507 | 2670.09 | 46.09 |
| 1508 | 2671.36 | 46.18 |
| 1509 | 2672.63 | 46.11 |
| 1510 | 2673.90 | 46.05 |
| 1511 | 2675.17 | 45.99 |
| 1512 | 2676.44 | 45.93 |
| 1513 | 2677.71 | 45.97 |
| 1514 | 2678.98 | 45.99 |
| 1515 | 2680.25 | 45.99 |
| 1516 | 2681.52 | 45.99 |
| 1517 | 2682.79 | 46.05 |
| 1518 | 2684.06 | 46.13 |
| 1519 | 2685.33 | 46.38 |
| 1520 | 2686.60 | 46.57 |
| 1521 | 2687.87 | 46.56 |
| 1522 | 2689.14 | 46.47 |
| 1523 | 2690.41 | 46.18 |
| 1524 | 2691.68 | 45.93 |
| 1525 | 2692.95 | 45.77 |
| 1526 | 2694.22 | 45.67 |
| 1527 | 2695.49 | 45.67 |
| 1528 | 2696.76 | 45.66 |
| 1529 | 2698.03 | 45.64 |
| 1530 | 2699.30 | 45.58 |
| 1531 | 2700.57 | 45.44 |
| 1532 | 2701.84 | 45.31 |
| 1533 | 2703.11 | 45.22 |
| 1534 | 2704.38 | 45.24 |
| 1535 | 2705.65 | 45.42 |
| 1536 | 2706.92 | 45.61 |
| 1537 | 2708.19 | 45.75 |
| 1538 | 2709.46 | 46.18 |
| 1539 | 2710.73 | 46.93 |
| 1540 | 2712.00 | 47.30 |
| 1541 | 2713.27 | 47.29 |
| 1542 | 2714.54 | 47.33 |
| 1543 | 2715.81 | 47.41 |
| 1544 | 2717.08 | 47.41 |
| 1545 | 2718.35 | 47.36 |
| 1546 | 2719.62 | 47.35 |
| 1547 | 2720.89 | 47.37 |
| 1548 | 2722.16 | 47.39 |
| 1549 | 2723.43 | 47.41 |
| 1550 | 2724.70 | 47.38 |
| 1551 | 2725.97 | 47.33 |
| 1552 | 2727.24 | 47.24 |

Comment:

## Weir Cross Section: X-0420W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 48.08 |
| 1 | 1.96 | 47.92 |
| 2 | 3.93 | 47.67 |
| 3 | 5.89 | 47.31 |
| 4 | 7.86 | 46.84 |
| 5 | 9.82 | 46.55 |
| 6 | 11.79 | 46.42 |
| 7 | 13.75 | 46.36 |
| 8 | 15.72 | 46.26 |
| 9 | 17.30 | 46.20 |
| 10 | 18.88 | 46.18 |
| 11 | 20.46 | 46.21 |
| 12 | 22.04 | 46.24 |
| 13 | 23.62 | 46.25 |
| 14 | 25.20 | 46.24 |
| 15 | 26.78 | 46.25 |
| 16 | 28.36 | 46.29 |
| 17 | 29.94 | 46.14 |
| 18 | 31.52 | 46.00 |
| 19 | 33.10 | 45.86 |
| 20 | 34.69 | 45.77 |
| 21 | 36.27 | 45.71 |
| 22 | 37.85 | 45.64 |
| 23 | 39.43 | 45.58 |
| 24 | 41.01 | 45.52 |
| 25 | 42.59 | 45.36 |
| 26 | 44.17 | 45.20 |
| 27 | 45.75 | 45.09 |
| 28 | 47.33 | 45.00 |
| 29 | 48.91 | 44.89 |
| 30 | 50.49 | 44.75 |
| 31 | 52.07 | 44.70 |
| 32 | 53.65 | 44.79 |
| 33 | 55.24 | 44.93 |
| 34 | 56.82 | 45.07 |
| 35 | 58.40 | 45.21 |
| 36 | 59.98 | 45.34 |
| 37 | 61.56 | 45.46 |
| 38 | 63.14 | 45.60 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 39 | 64.72 | 45.65 |
| 40 | 66.30 | 45.62 |
| 41 | 68.31 | 45.45 |
| 42 | 70.31 | 45.27 |
| 43 | 72.31 | 45.09 |
| 44 | 74.32 | 44.94 |
| 45 | 76.32 | 44.92 |
| 46 | 78.33 | 44.85 |
| 47 | 80.33 | 44.84 |
| 48 | 82.34 | 44.89 |
| 49 | 84.34 | 44.93 |
| 50 | 86.34 | 44.96 |
| 51 | 88.35 | 44.99 |
| 52 | 90.35 | 45.03 |
| 53 | 92.36 | 45.02 |
| 54 | 94.36 | 44.98 |
| 55 | 96.36 | 44.94 |
| 56 | 98.37 | 44.91 |
| 57 | 100.37 | 44.92 |
| 58 | 102.38 | 44.98 |
| 59 | 104.38 | 45.12 |
| 60 | 106.39 | 45.23 |
| 61 | 108.39 | 45.46 |
| 62 | 110.39 | 45.58 |
| 63 | 112.40 | 45.56 |
| 64 | 114.40 | 45.52 |
| 65 | 116.41 | 45.81 |
| 66 | 118.41 | 46.12 |
| 67 | 120.42 | 46.20 |
| 68 | 122.42 | 46.22 |
| 69 | 124.42 | 46.22 |
| 70 | 126.43 | 46.16 |
| 71 | 128.43 | 46.06 |
| 72 | 130.44 | 45.89 |
| 73 | 132.84 | 45.78 |
| 74 | 135.24 | 45.74 |
| 75 | 137.64 | 45.68 |
| 76 | 140.04 | 45.73 |
| 77 | 142.43 | 45.75 |
| 78 | 144.83 | 45.72 |
| 79 | 147.23 | 45.25 |
| 80 | 149.63 | 45.10 |
| 81 | 152.03 | 45.13 |
| 82 | 154.43 | 45.26 |
| 83 | 156.83 | 45.29 |
| 84 | 159.23 | 45.36 |
| 85 | 161.63 | 45.47 |
| 86 | 164.03 | 45.48 |
| 87 | 166.43 | 45.44 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 88 | 168.83 | 45.39 |
| 89 | 171.23 | 45.43 |
| 90 | 173.63 | 45.48 |
| 91 | 176.03 | 45.31 |
| 92 | 178.43 | 45.32 |
| 93 | 180.83 | 45.40 |
| 94 | 183.23 | 45.41 |
| 95 | 185.63 | 45.30 |
| 96 | 188.03 | 45.07 |
| 97 | 190.42 | 44.99 |
| 98 | 192.82 | 45.08 |
| 99 | 195.22 | 45.28 |
| 100 | 197.62 | 45.45 |
| 101 | 200.02 | 45.38 |
| 102 | 202.42 | 45.44 |
| 103 | 204.82 | 45.50 |
| 104 | 207.22 | 45.46 |
| 105 | 209.62 | 45.30 |
| 106 | 212.02 | 45.22 |
| 107 | 214.42 | 45.37 |
| 108 | 216.82 | 45.49 |
| 109 | 219.22 | 45.57 |
| 110 | 221.62 | 45.60 |
| 111 | 224.02 | 45.59 |
| 112 | 226.42 | 45.64 |
| 113 | 228.82 | 45.52 |
| 114 | 231.22 | 45.51 |
| 115 | 233.62 | 45.47 |
| 116 | 236.02 | 45.45 |
| 117 | 238.42 | 45.52 |
| 118 | 240.81 | 45.62 |
| 119 | 243.21 | 45.60 |
| 120 | 245.61 | 45.51 |
| 121 | 248.01 | 45.47 |
| 122 | 250.41 | 45.40 |
| 123 | 252.81 | 45.28 |
| 124 | 255.21 | 45.25 |
| 125 | 257.61 | 45.30 |
| 126 | 260.01 | 45.44 |
| 127 | 262.41 | 45.53 |
| 128 | 264.81 | 45.49 |
| 129 | 267.21 | 45.53 |
| 130 | 269.61 | 45.67 |
| 131 | 272.01 | 45.79 |
| 132 | 274.41 | 46.02 |
| 133 | 276.81 | 46.20 |
| 134 | 279.21 | 46.09 |
| 135 | 281.61 | 45.90 |
| 136 | 284.01 | 46.06 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 137 | 286.41 | 46.13 |
| 138 | 288.81 | 46.01 |
| 139 | 291.21 | 45.98 |
| 140 | 293.62 | 45.98 |
| 141 | 296.02 | 45.92 |
| 142 | 298.42 | 45.82 |
| 143 | 300.82 | 45.91 |
| 144 | 303.22 | 45.95 |
| 145 | 305.63 | 45.83 |
| 146 | 308.03 | 45.71 |
| 147 | 310.43 | 45.65 |
| 148 | 312.83 | 45.57 |
| 149 | 315.24 | 45.50 |
| 150 | 317.64 | 45.63 |
| 151 | 320.04 | 45.80 |
| 152 | 322.44 | 45.85 |
| 153 | 324.85 | 45.71 |
| 154 | 327.25 | 45.70 |
| 155 | 329.65 | 45.75 |
| 156 | 332.05 | 45.73 |
| 157 | 334.45 | 45.65 |
| 158 | 336.86 | 45.68 |
| 159 | 339.26 | 45.90 |
| 160 | 341.66 | 46.06 |
| 161 | 344.06 | 46.13 |
| 162 | 346.47 | 45.93 |
| 163 | 348.87 | 46.01 |
| 164 | 351.27 | 46.24 |
| 165 | 353.67 | 46.34 |
| 166 | 356.07 | 46.35 |
| 167 | 358.48 | 46.48 |
| 168 | 360.88 | 46.36 |
| 169 | 362.63 | 46.38 |
| 170 | 364.38 | 46.33 |
| 171 | 366.13 | 46.19 |
| 172 | 367.89 | 46.07 |
| 173 | 369.64 | 45.97 |
| 174 | 371.39 | 45.96 |
| 175 | 373.14 | 46.11 |
| 176 | 374.89 | 46.20 |
| 177 | 376.65 | 46.23 |
| 178 | 378.40 | 46.21 |
| 179 | 380.15 | 46.13 |
| 180 | 381.90 | 46.17 |
| 181 | 383.65 | 46.26 |
| 182 | 385.40 | 46.24 |
| 183 | 387.16 | 46.18 |
| 184 | 388.91 | 46.18 |
| 185 | 390.66 | 46.11 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 186 | 392.41 | 46.10 |
| 187 | 394.16 | 46.26 |
| 188 | 395.92 | 46.38 |
| 189 | 397.67 | 46.28 |
| 190 | 399.42 | 46.31 |
| 191 | 401.17 | 46.20 |
| 192 | 402.92 | 46.10 |
| 193 | 404.67 | 46.21 |
| 194 | 406.43 | 46.26 |
| 195 | 408.18 | 46.25 |
| 196 | 409.93 | 46.00 |
| 197 | 411.68 | 45.89 |
| 198 | 413.43 | 45.88 |
| 199 | 415.19 | 45.81 |
| 200 | 416.94 | 45.77 |
| 201 | 418.69 | 45.87 |
| 202 | 420.44 | 45.93 |
| 203 | 422.19 | 45.97 |
| 204 | 423.94 | 46.01 |
| 205 | 425.70 | 46.00 |
| 206 | 427.45 | 45.97 |
| 207 | 429.20 | 45.86 |
| 208 | 430.95 | 45.84 |
| 209 | 432.70 | 45.92 |
| 210 | 434.45 | 45.98 |
| 211 | 436.21 | 46.15 |
| 212 | 437.96 | 46.35 |
| 213 | 439.71 | 46.45 |
| 214 | 441.46 | 46.46 |
| 215 | 443.21 | 46.37 |
| 216 | 444.97 | 46.22 |
| 217 | 446.72 | 45.99 |
| 218 | 448.47 | 45.89 |
| 219 | 450.22 | 45.97 |
| 220 | 451.97 | 46.01 |
| 221 | 453.72 | 46.13 |
| 222 | 455.48 | 46.14 |
| 223 | 457.23 | 46.18 |
| 224 | 458.98 | 46.31 |
| 225 | 460.73 | 46.32 |
| 226 | 462.48 | 46.28 |
| 227 | 464.24 | 46.39 |
| 228 | 465.99 | 46.52 |
| 229 | 467.74 | 46.56 |
| 230 | 469.49 | 46.53 |
| 231 | 471.24 | 46.30 |
| 232 | 472.99 | 46.24 |

Comment:

## Weir Cross Section: X-0430W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 46.24 |
| 1 | 2.30 | 46.29 |
| 2 | 4.61 | 46.31 |
| 3 | 6.91 | 46.27 |
| 4 | 9.22 | 46.17 |
| 5 | 11.52 | 46.20 |
| 6 | 13.83 | 45.99 |
| 7 | 16.13 | 45.79 |
| 8 | 18.44 | 45.79 |
| 9 | 20.74 | 45.78 |
| 10 | 23.05 | 45.74 |
| 11 | 25.35 | 45.99 |
| 12 | 27.66 | 45.95 |
| 13 | 29.96 | 45.72 |
| 14 | 32.27 | 45.50 |
| 15 | 34.57 | 45.55 |
| 16 | 36.87 | 45.92 |
| 17 | 39.18 | 45.94 |
| 18 | 41.48 | 45.81 |
| 19 | 43.79 | 45.86 |
| 20 | 46.09 | 45.96 |
| 21 | 48.40 | 45.91 |
| 22 | 50.70 | 45.73 |
| 23 | 53.01 | 45.87 |
| 24 | 55.31 | 45.95 |
| 25 | 57.62 | 45.85 |
| 26 | 59.92 | 45.75 |
| 27 | 62.23 | 45.78 |
| 28 | 64.53 | 45.85 |
| 29 | 66.84 | 45.77 |
| 30 | 69.14 | 45.68 |
| 31 | 71.44 | 45.70 |
| 32 | 73.75 | 45.66 |
| 33 | 76.05 | 45.57 |
| 34 | 78.36 | 45.60 |
| 35 | 80.66 | 45.69 |
| 36 | 82.97 | 45.68 |
| 37 | 85.27 | 45.72 |
| 38 | 87.58 | 45.72 |
| 39 | 89.88 | 45.77 |
| 40 | 92.19 | 45.89 |
| 41 | 94.49 | 45.73 |
| 42 | 96.80 | 45.78 |
| 43 | 99.10 | 45.59 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 44 | 101.40 | 45.34 |
| 45 | 103.71 | 45.16 |
| 46 | 106.01 | 45.16 |
| 47 | 108.32 | 45.25 |
| 48 | 110.62 | 45.70 |
| 49 | 112.93 | 45.81 |
| 50 | 115.23 | 45.59 |
| 51 | 117.54 | 45.46 |
| 52 | 119.84 | 45.58 |
| 53 | 122.15 | 45.65 |
| 54 | 124.45 | 45.68 |
| 55 | 126.76 | 45.67 |
| 56 | 129.06 | 45.76 |
| 57 | 131.37 | 45.99 |
| 58 | 133.67 | 46.04 |
| 59 | 135.97 | 46.27 |
| 60 | 138.28 | 46.43 |
| 61 | 140.58 | 46.41 |
| 62 | 142.89 | 46.42 |
| 63 | 145.19 | 46.42 |
| 64 | 147.50 | 46.38 |
| 65 | 149.73 | 46.45 |
| 66 | 151.96 | 46.61 |
| 67 | 154.19 | 46.81 |
| 68 | 156.42 | 46.88 |
| 69 | 158.65 | 46.64 |
| 70 | 160.89 | 46.55 |
| 71 | 163.12 | 46.69 |
| 72 | 165.35 | 46.31 |
| 73 | 167.58 | 45.75 |
| 74 | 169.81 | 45.69 |
| 75 | 172.04 | 45.80 |
| 76 | 174.27 | 45.94 |
| 77 | 176.50 | 45.99 |
| 78 | 178.73 | 45.84 |
| 79 | 180.97 | 45.65 |
| 80 | 183.20 | 45.67 |
| 81 | 185.43 | 45.78 |
| 82 | 187.66 | 45.96 |
| 83 | 189.89 | 45.83 |
| 84 | 192.12 | 45.68 |
| 85 | 194.35 | 45.84 |
| 86 | 196.58 | 45.90 |
| 87 | 198.82 | 45.87 |
| 88 | 201.05 | 45.88 |
| 89 | 203.28 | 45.98 |
| 90 | 205.51 | 46.28 |
| 91 | 207.74 | 46.20 |
| 92 | 209.97 | 46.00 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 93 | 212.20 | 45.99 |
| 94 | 214.43 | 46.10 |
| 95 | 216.66 | 46.13 |
| 96 | 218.90 | 46.12 |
| 97 | 221.13 | 46.11 |
| 98 | 223.36 | 46.02 |
| 99 | 225.59 | 45.79 |
| 100 | 227.82 | 45.81 |
| 101 | 230.05 | 45.68 |
| 102 | 232.28 | 45.60 |
| 103 | 234.51 | 45.54 |
| 104 | 236.75 | 45.55 |
| 105 | 238.98 | 45.58 |
| 106 | 241.21 | 45.57 |
| 107 | 243.44 | 45.57 |
| 108 | 245.67 | 45.71 |
| 109 | 247.90 | 45.58 |
| 110 | 250.13 | 45.52 |
| 111 | 252.36 | 45.40 |
| 112 | 254.59 | 45.34 |
| 113 | 256.83 | 45.43 |
| 114 | 259.06 | 45.58 |
| 115 | 261.29 | 45.65 |
| 116 | 263.52 | 45.75 |
| 117 | 265.75 | 45.78 |
| 118 | 267.98 | 45.85 |
| 119 | 270.21 | 45.88 |
| 120 | 272.44 | 45.77 |
| 121 | 274.68 | 45.71 |
| 122 | 276.91 | 45.72 |
| 123 | 279.14 | 45.75 |
| 124 | 281.37 | 45.80 |
| 125 | 283.60 | 45.71 |
| 126 | 285.83 | 45.67 |
| 127 | 288.06 | 45.62 |
| 128 | 290.29 | 45.53 |
| 129 | 292.61 | 45.48 |
| 130 | 294.93 | 45.52 |
| 131 | 297.24 | 45.47 |
| 132 | 299.56 | 45.29 |
| 133 | 301.87 | 45.32 |
| 134 | 304.19 | 45.38 |
| 135 | 306.50 | 45.17 |
| 136 | 308.82 | 45.34 |
| 137 | 311.13 | 45.46 |
| 138 | 313.45 | 45.44 |
| 139 | 315.77 | 45.41 |
| 140 | 318.08 | 45.48 |
| 141 | 320.40 | 45.48 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 142 | 322.71 | 45.41 |
| 143 | 325.03 | 45.63 |
| 144 | 327.34 | 45.77 |
| 145 | 329.50 | 45.69 |
| 146 | 331.66 | 45.70 |
| 147 | 333.82 | 45.85 |
| 148 | 335.98 | 45.97 |
| 149 | 338.14 | 45.85 |
| 150 | 340.30 | 45.71 |
| 151 | 342.46 | 45.62 |
| 152 | 344.62 | 45.59 |
| 153 | 346.78 | 45.67 |
| 154 | 348.94 | 45.74 |
| 155 | 351.10 | 45.61 |
| 156 | 353.26 | 45.58 |
| 157 | 355.42 | 45.63 |
| 158 | 357.58 | 45.45 |
| 159 | 359.74 | 45.17 |
| 160 | 361.90 | 45.01 |
| 161 | 364.06 | 45.17 |
| 162 | 366.22 | 45.52 |
| 163 | 368.38 | 45.79 |
| 164 | 370.54 | 45.96 |
| 165 | 372.70 | 45.78 |
| 166 | 374.86 | 45.64 |
| 167 | 377.02 | 45.64 |
| 168 | 379.18 | 45.62 |
| 169 | 381.34 | 45.69 |
| 170 | 383.50 | 45.81 |
| 171 | 385.66 | 45.71 |
| 172 | 387.82 | 45.69 |
| 173 | 389.98 | 45.73 |
| 174 | 392.14 | 45.72 |
| 175 | 394.30 | 45.82 |
| 176 | 396.46 | 45.96 |
| 177 | 398.18 | 45.81 |
| 178 | 399.90 | 45.68 |
| 179 | 401.62 | 45.57 |
| 180 | 403.33 | 45.58 |
| 181 | 405.05 | 45.63 |
| 182 | 406.77 | 45.70 |
| 183 | 408.49 | 45.61 |
| 184 | 410.20 | 45.49 |
| 185 | 411.92 | 45.41 |
| 186 | 413.64 | 45.41 |
| 187 | 415.36 | 45.35 |
| 188 | 417.07 | 45.26 |
| 189 | 418.79 | 45.23 |
| 190 | 420.51 | 45.16 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 191 | 422.23 | 45.12 |
| 192 | 423.95 | 45.21 |
| 193 | 425.66 | 45.25 |
| 194 | 427.38 | 45.24 |
| 195 | 429.10 | 45.20 |
| 196 | 430.82 | 45.13 |
| 197 | 432.53 | 45.15 |
| 198 | 434.25 | 45.27 |
| 199 | 435.97 | 45.24 |
| 200 | 437.69 | 45.15 |
| 201 | 439.40 | 45.02 |
| 202 | 441.12 | 45.08 |
| 203 | 442.84 | 45.14 |
| 204 | 444.56 | 45.19 |
| 205 | 446.27 | 45.28 |
| 206 | 447.99 | 45.33 |
| 207 | 449.71 | 45.33 |
| 208 | 451.43 | 45.38 |
| 209 | 453.62 | 45.27 |
| 210 | 455.81 | 45.20 |
| 211 | 458.01 | 45.18 |
| 212 | 460.20 | 45.09 |
| 213 | 462.39 | 45.05 |
| 214 | 464.58 | 45.21 |
| 215 | 466.78 | 45.27 |
| 216 | 468.97 | 45.16 |
| 217 | 471.16 | 45.17 |
| 218 | 473.35 | 45.31 |
| 219 | 475.55 | 45.44 |
| 220 | 477.74 | 45.54 |
| 221 | 479.93 | 45.74 |
| 222 | 482.12 | 45.85 |
| 223 | 484.32 | 45.78 |
| 224 | 486.51 | 45.84 |
| 225 | 488.54 | 45.85 |
| 226 | 490.56 | 45.83 |
| 227 | 492.59 | 45.80 |
| 228 | 494.62 | 45.80 |
| 229 | 496.65 | 45.83 |
| 230 | 498.67 | 45.83 |
| 231 | 500.70 | 45.74 |
| 232 | 502.73 | 45.49 |
| 233 | 504.76 | 45.37 |
| 234 | 506.78 | 45.48 |
| 235 | 508.81 | 45.57 |
| 236 | 510.84 | 45.58 |
| 237 | 512.87 | 45.55 |
| 238 | 514.89 | 45.47 |
| 239 | 516.92 | 45.62 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 240 | 518.95 | 45.59 |
| 241 | 520.98 | 45.46 |
| 242 | 523.00 | 45.52 |
| 243 | 525.03 | 45.44 |
| 244 | 527.06 | 45.46 |
| 245 | 529.09 | 45.42 |
| 246 | 531.11 | 45.37 |
| 247 | 533.14 | 45.32 |
| 248 | 535.17 | 45.34 |
| 249 | 537.20 | 45.22 |
| 250 | 539.22 | 45.20 |
| 251 | 541.25 | 45.34 |
| 252 | 543.28 | 45.41 |
| 253 | 545.31 | 45.49 |
| 254 | 547.33 | 45.75 |
| 255 | 549.36 | 46.15 |
| 256 | 551.39 | 46.54 |
| 257 | 552.86 | 46.56 |
| 258 | 554.33 | 46.55 |
| 259 | 555.81 | 46.49 |
| 260 | 557.28 | 46.31 |
| 261 | 558.75 | 45.98 |
| 262 | 560.23 | 45.91 |
| 263 | 561.70 | 45.91 |
| 264 | 563.17 | 45.97 |
| 265 | 564.64 | 46.04 |
| 266 | 566.12 | 46.09 |
| 267 | 567.59 | 46.19 |
| 268 | 569.06 | 46.32 |
| 269 | 570.54 | 46.16 |
| 270 | 572.01 | 45.97 |
| 271 | 573.48 | 45.73 |
| 272 | 574.95 | 45.60 |
| 273 | 576.43 | 45.54 |
| 274 | 577.90 | 45.56 |
| 275 | 579.37 | 45.61 |
| 276 | 580.84 | 45.69 |
| 277 | 582.32 | 45.76 |
| 278 | 583.79 | 45.81 |
| 279 | 585.26 | 45.79 |
| 280 | 586.74 | 45.75 |
| 281 | 588.21 | 45.62 |
| 282 | 589.68 | 45.55 |
| 283 | 591.15 | 45.56 |
| 284 | 592.63 | 45.56 |
| 285 | 594.10 | 45.58 |
| 286 | 595.57 | 45.61 |
| 287 | 597.05 | 45.64 |
| 288 | 598.52 | 45.65 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 289 | 599.99 | 45.70 |
| 290 | 601.46 | 45.76 |
| 291 | 602.94 | 45.81 |
| 292 | 604.41 | 45.82 |
| 293 | 605.88 | 45.72 |
| 294 | 607.35 | 45.70 |
| 295 | 608.83 | 45.75 |
| 296 | 610.30 | 45.87 |
| 297 | 611.77 | 46.00 |
| 298 | 613.25 | 46.00 |
| 299 | 614.72 | 45.94 |
| 300 | 616.19 | 45.79 |
| 301 | 617.66 | 45.68 |
| 302 | 619.14 | 45.59 |
| 303 | 620.61 | 45.51 |
| 304 | 622.08 | 45.48 |
| 305 | 623.56 | 45.54 |
| 306 | 625.03 | 45.56 |
| 307 | 626.50 | 45.55 |
| 308 | 627.97 | 45.54 |
| 309 | 629.45 | 45.49 |
| 310 | 630.92 | 45.32 |
| 311 | 632.39 | 45.20 |
| 312 | 633.86 | 45.13 |
| 313 | 635.34 | 45.01 |
| 314 | 636.81 | 44.93 |
| 315 | 638.28 | 45.10 |
| 316 | 639.76 | 45.21 |
| 317 | 641.23 | 45.27 |
| 318 | 642.70 | 45.34 |
| 319 | 644.17 | 45.42 |
| 320 | 645.65 | 45.50 |
| 321 | 647.12 | 45.60 |
| 322 | 648.59 | 45.72 |
| 323 | 650.07 | 45.75 |
| 324 | 651.54 | 45.72 |
| 325 | 653.01 | 45.68 |
| 326 | 654.48 | 45.64 |
| 327 | 655.96 | 45.62 |
| 328 | 657.43 | 45.68 |
| 329 | 658.90 | 45.81 |
| 330 | 660.37 | 45.82 |
| 331 | 661.85 | 45.82 |
| 332 | 663.32 | 45.85 |
| 333 | 664.79 | 45.83 |
| 334 | 666.27 | 45.77 |
| 335 | 667.74 | 45.68 |
| 336 | 669.21 | 45.60 |
| 337 | 670.68 | 45.64 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 338 | 672.16 | 45.72 |
| 339 | 673.63 | 45.87 |
| 340 | 675.10 | 45.93 |
| 341 | 676.58 | 45.97 |
| 342 | 678.05 | 45.91 |
| 343 | 679.52 | 45.87 |
| 344 | 680.99 | 45.86 |
| 345 | 682.47 | 45.86 |
| 346 | 683.94 | 45.86 |
| 347 | 685.41 | 45.87 |
| 348 | 686.89 | 45.87 |
| 349 | 688.36 | 45.83 |
| 350 | 689.83 | 45.82 |
| 351 | 691.30 | 45.83 |
| 352 | 692.78 | 45.86 |
| 353 | 694.25 | 45.88 |
| 354 | 695.72 | 45.85 |
| 355 | 697.19 | 45.87 |
| 356 | 698.67 | 45.93 |
| 357 | 700.14 | 45.95 |
| 358 | 701.61 | 45.95 |
| 359 | 703.09 | 45.84 |
| 360 | 704.56 | 45.79 |
| 361 | 706.03 | 45.91 |
| 362 | 707.50 | 45.99 |
| 363 | 708.98 | 46.04 |
| 364 | 710.45 | 45.90 |
| 365 | 711.92 | 45.79 |
| 366 | 713.40 | 45.79 |
| 367 | 714.87 | 45.86 |
| 368 | 716.34 | 45.98 |
| 369 | 717.81 | 45.87 |
| 370 | 719.29 | 45.71 |
| 371 | 720.76 | 45.58 |
| 372 | 722.23 | 45.53 |
| 373 | 723.70 | 45.60 |
| 374 | 725.18 | 45.80 |
| 375 | 726.65 | 46.03 |
| 376 | 728.12 | 46.13 |
| 377 | 729.60 | 46.15 |
| 378 | 731.07 | 46.01 |
| 379 | 732.54 | 45.90 |
| 380 | 734.01 | 45.81 |
| 381 | 735.49 | 45.90 |
| 382 | 736.96 | 46.01 |
| 383 | 738.43 | 46.13 |
| 384 | 739.91 | 46.18 |
| 385 | 742.26 | 46.13 |
| 386 | 744.61 | 45.93 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 387 | 746.96 | 45.82 |
| 388 | 749.32 | 45.67 |
| 389 | 751.67 | 45.53 |
| 390 | 754.02 | 45.39 |
| 391 | 756.38 | 45.33 |
| 392 | 758.73 | 45.34 |
| 393 | 761.08 | 45.45 |
| 394 | 763.44 | 45.50 |
| 395 | 765.79 | 45.45 |
| 396 | 768.14 | 45.47 |
| 397 | 770.49 | 45.51 |
| 398 | 772.85 | 45.54 |
| 399 | 775.20 | 45.46 |
| 400 | 777.55 | 45.51 |
| 401 | 779.91 | 45.55 |
| 402 | 782.26 | 45.46 |
| 403 | 784.61 | 45.43 |
| 404 | 786.97 | 45.48 |
| 405 | 789.32 | 45.57 |
| 406 | 791.67 | 45.59 |
| 407 | 794.02 | 45.56 |
| 408 | 796.38 | 45.51 |
| 409 | 798.73 | 45.60 |
| 410 | 801.08 | 45.58 |
| 411 | 803.44 | 45.45 |
| 412 | 805.79 | 45.54 |
| 413 | 808.14 | 45.55 |
| 414 | 810.50 | 45.52 |
| 415 | 812.85 | 45.60 |
| 416 | 815.20 | 45.54 |
| 417 | 817.55 | 45.37 |
| 418 | 819.91 | 45.46 |
| 419 | 822.26 | 45.45 |
| 420 | 824.61 | 45.33 |
| 421 | 826.97 | 45.38 |
| 422 | 829.32 | 45.35 |
| 423 | 831.67 | 45.45 |
| 424 | 834.03 | 45.53 |
| 425 | 836.38 | 45.56 |
| 426 | 838.73 | 45.69 |
| 427 | 841.08 | 45.81 |
| 428 | 843.44 | 45.88 |
| 429 | 845.79 | 45.87 |
| 430 | 848.14 | 45.97 |
| 431 | 850.50 | 46.02 |
| 432 | 852.85 | 45.92 |
| 433 | 855.20 | 45.82 |
| 434 | 857.56 | 45.76 |
| 435 | 859.91 | 45.81 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 436 | 862.26 | 45.96 |
| 437 | 864.62 | 45.90 |
| 438 | 866.97 | 45.72 |
| 439 | 869.32 | 45.66 |
| 440 | 871.67 | 45.57 |
| 441 | 874.03 | 45.52 |
| 442 | 876.38 | 45.64 |
| 443 | 878.73 | 45.81 |
| 444 | 881.09 | 46.06 |
| 445 | 883.44 | 46.01 |
| 446 | 885.79 | 45.85 |
| 447 | 888.15 | 45.79 |
| 448 | 890.50 | 45.80 |
| 449 | 892.85 | 45.80 |
| 450 | 895.20 | 45.66 |
| 451 | 897.56 | 45.66 |
| 452 | 899.91 | 45.83 |
| 453 | 902.26 | 45.81 |
| 454 | 904.62 | 45.70 |
| 455 | 906.97 | 45.77 |
| 456 | 909.32 | 45.75 |
| 457 | 911.68 | 45.67 |
| 458 | 914.03 | 45.67 |
| 459 | 916.38 | 45.70 |
| 460 | 918.73 | 45.69 |
| 461 | 921.09 | 45.62 |
| 462 | 923.44 | 45.51 |
| 463 | 925.79 | 45.57 |
| 464 | 928.15 | 45.49 |
| 465 | 930.50 | 45.58 |
| 466 | 932.85 | 45.74 |
| 467 | 935.21 | 45.80 |
| 468 | 937.56 | 45.72 |
| 469 | 939.91 | 45.56 |
| 470 | 942.26 | 45.48 |
| 471 | 944.62 | 45.54 |
| 472 | 946.97 | 45.67 |
| 473 | 949.32 | 45.60 |
| 474 | 951.68 | 45.36 |
| 475 | 954.03 | 45.29 |
| 476 | 956.38 | 45.26 |
| 477 | 958.74 | 45.19 |
| 478 | 961.09 | 45.23 |
| 479 | 963.44 | 45.24 |
| 480 | 965.79 | 45.17 |
| 481 | 968.15 | 45.05 |
| 482 | 970.50 | 44.95 |
| 483 | 972.85 | 44.87 |
| 484 | 975.21 | 45.06 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 485 | 977.56 | 45.56 |
| 486 | 979.91 | 45.75 |
| 487 | 982.27 | 45.50 |
| 488 | 984.62 | 45.46 |
| 489 | 986.97 | 45.59 |
| 490 | 989.33 | 45.66 |
| 491 | 991.68 | 45.53 |
| 492 | 994.03 | 45.48 |
| 493 | 996.38 | 45.57 |
| 494 | 998.74 | 45.77 |
| 495 | 1001.09 | 45.75 |
| 496 | 1003.44 | 45.80 |
| 497 | 1005.80 | 46.01 |
| 498 | 1008.15 | 45.94 |
| 499 | 1010.50 | 45.88 |
| 500 | 1012.86 | 45.97 |
| 501 | 1015.21 | 46.05 |
| 502 | 1017.56 | 45.99 |
| 503 | 1019.91 | 45.85 |
| 504 | 1022.27 | 45.69 |
| 505 | 1024.62 | 45.81 |
| 506 | 1026.97 | 45.86 |
| 507 | 1029.33 | 45.77 |
| 508 | 1031.68 | 45.76 |
| 509 | 1034.03 | 45.82 |
| 510 | 1036.39 | 45.97 |
| 511 | 1038.74 | 45.89 |
| 512 | 1041.09 | 45.59 |
| 513 | 1043.38 | 45.48 |
| 514 | 1045.67 | 45.70 |
| 515 | 1047.96 | 45.70 |
| 516 | 1050.26 | 45.66 |
| 517 | 1052.55 | 45.72 |
| 518 | 1054.84 | 45.78 |
| 519 | 1057.13 | 45.87 |
| 520 | 1059.42 | 45.97 |
| 521 | 1061.71 | 45.98 |
| 522 | 1064.00 | 45.91 |
| 523 | 1066.29 | 45.90 |
| 524 | 1068.58 | 45.93 |
| 525 | 1070.87 | 45.93 |
| 526 | 1073.17 | 45.94 |
| 527 | 1075.46 | 46.01 |
| 528 | 1077.75 | 46.06 |

Comment:

## Weir Cross Section: X-0440W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 45.59 |
| 1 | 1.40 | 45.81 |
| 2 | 2.80 | 46.34 |
| 3 | 4.20 | 46.82 |
| 4 | 5.59 | 46.98 |
| 5 | 6.99 | 47.13 |
| 6 | 8.39 | 47.19 |
| 7 | 9.79 | 47.23 |
| 8 | 11.19 | 47.13 |
| 9 | 12.59 | 47.04 |
| 10 | 13.99 | 47.00 |
| 11 | 15.38 | 46.97 |
| 12 | 16.78 | 46.95 |
| 13 | 18.18 | 46.86 |
| 14 | 19.58 | 46.72 |
| 15 | 20.98 | 46.56 |
| 16 | 22.38 | 46.49 |
| 17 | 23.78 | 46.48 |
| 18 | 25.17 | 46.50 |
| 19 | 26.57 | 46.50 |
| 20 | 27.97 | 46.51 |
| 21 | 29.37 | 46.51 |
| 22 | 30.77 | 46.49 |
| 23 | 32.17 | 46.64 |
| 24 | 33.57 | 46.79 |
| 25 | 34.96 | 46.80 |
| 26 | 36.36 | 46.76 |
| 27 | 37.76 | 46.79 |
| 28 | 39.16 | 46.83 |
| 29 | 40.56 | 46.83 |
| 30 | 41.96 | 46.75 |
| 31 | 43.36 | 46.65 |
| 32 | 44.75 | 46.50 |
| 33 | 46.15 | 46.36 |
| 34 | 47.55 | 46.31 |
| 35 | 48.95 | 46.24 |
| 36 | 50.35 | 46.30 |
| 37 | 51.75 | 46.46 |
| 38 | 53.15 | 46.59 |
| 39 | 54.54 | 46.58 |
| 40 | 55.94 | 46.53 |
| 41 | 57.34 | 46.47 |
| 42 | 58.74 | 46.42 |
| 43 | 60.14 | 46.34 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 44 | 61.54 | 46.30 |
| 45 | 62.94 | 46.32 |
| 46 | 64.33 | 46.43 |
| 47 | 65.73 | 46.67 |
| 48 | 67.13 | 46.83 |
| 49 | 68.53 | 46.69 |
| 50 | 69.93 | 46.47 |
| 51 | 71.33 | 46.25 |
| 52 | 72.73 | 46.09 |
| 53 | 74.12 | 45.97 |
| 54 | 75.52 | 45.91 |
| 55 | 76.92 | 45.90 |
| 56 | 78.32 | 45.97 |
| 57 | 79.72 | 46.08 |
| 58 | 81.12 | 46.08 |
| 59 | 82.52 | 46.02 |
| 60 | 83.91 | 45.97 |
| 61 | 85.31 | 45.92 |
| 62 | 86.71 | 45.97 |
| 63 | 88.11 | 45.98 |
| 64 | 89.51 | 45.91 |
| 65 | 91.22 | 45.78 |
| 66 | 92.93 | 45.70 |
| 67 | 94.64 | 45.58 |
| 68 | 96.35 | 45.43 |
| 69 | 98.05 | 45.60 |
| 70 | 99.76 | 45.83 |
| 71 | 101.47 | 46.15 |
| 72 | 103.18 | 46.09 |
| 73 | 104.89 | 45.82 |
| 74 | 106.60 | 45.73 |
| 75 | 108.31 | 45.67 |
| 76 | 110.02 | 45.67 |
| 77 | 111.73 | 45.77 |
| 78 | 113.43 | 45.82 |
| 79 | 115.14 | 45.80 |
| 80 | 116.85 | 45.87 |
| 81 | 118.56 | 45.83 |
| 82 | 120.27 | 45.65 |
| 83 | 121.98 | 45.48 |
| 84 | 123.69 | 45.42 |
| 85 | 125.40 | 45.51 |
| 86 | 127.11 | 45.61 |
| 87 | 128.82 | 45.77 |
| 88 | 130.52 | 45.86 |
| 89 | 132.23 | 45.82 |
| 90 | 133.94 | 45.70 |
| 91 | 135.65 | 45.57 |
| 92 | 137.36 | 45.45 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 93 | 139.07 | 45.29 |
| 94 | 140.78 | 45.27 |
| 95 | 142.49 | 45.33 |
| 96 | 144.20 | 45.31 |
| 97 | 145.90 | 45.30 |
| 98 | 147.61 | 45.37 |
| 99 | 149.32 | 45.52 |
| 100 | 151.03 | 45.62 |
| 101 | 152.74 | 45.52 |
| 102 | 154.45 | 45.39 |
| 103 | 156.16 | 45.26 |
| 104 | 157.87 | 45.13 |
| 105 | 159.58 | 44.93 |
| 106 | 161.28 | 44.68 |
| 107 | 162.99 | 44.67 |
| 108 | 164.70 | 44.75 |
| 109 | 166.41 | 44.84 |
| 110 | 168.12 | 44.85 |
| 111 | 169.83 | 44.87 |
| 112 | 171.54 | 44.92 |
| 113 | 173.25 | 44.87 |
| 114 | 174.96 | 44.80 |
| 115 | 176.67 | 44.56 |
| 116 | 178.37 | 44.46 |
| 117 | 180.08 | 44.52 |
| 118 | 181.79 | 44.50 |
| 119 | 183.50 | 44.52 |
| 120 | 185.21 | 44.57 |
| 121 | 186.92 | 44.54 |
| 122 | 188.63 | 44.53 |
| 123 | 190.34 | 44.62 |
| 124 | 192.05 | 44.68 |
| 125 | 193.75 | 44.71 |
| 126 | 195.46 | 44.65 |
| 127 | 197.17 | 44.65 |
| 128 | 198.88 | 44.65 |
| 129 | 200.48 | 44.62 |
| 130 | 202.08 | 44.61 |
| 131 | 203.67 | 44.60 |
| 132 | 205.27 | 44.59 |
| 133 | 206.87 | 44.66 |
| 134 | 208.47 | 44.63 |
| 135 | 210.06 | 44.53 |
| 136 | 211.66 | 44.62 |
| 137 | 213.26 | 44.65 |
| 138 | 214.86 | 44.59 |
| 139 | 216.45 | 44.59 |
| 140 | 218.05 | 44.64 |
| 141 | 219.65 | 44.75 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 142 | 221.25 | 44.79 |
| 143 | 222.84 | 44.77 |
| 144 | 224.44 | 44.79 |
| 145 | 226.04 | 44.80 |
| 146 | 227.64 | 44.83 |
| 147 | 229.23 | 44.94 |
| 148 | 230.83 | 44.96 |
| 149 | 232.43 | 44.96 |
| 150 | 234.02 | 45.09 |
| 151 | 235.62 | 45.15 |
| 152 | 237.22 | 45.15 |
| 153 | 238.82 | 45.25 |
| 154 | 240.41 | 45.36 |
| 155 | 242.01 | 45.34 |
| 156 | 243.61 | 45.39 |
| 157 | 245.21 | 45.42 |
| 158 | 246.80 | 45.38 |
| 159 | 248.40 | 45.39 |
| 160 | 250.00 | 45.54 |
| 161 | 251.60 | 45.65 |
| 162 | 253.19 | 45.69 |
| 163 | 254.79 | 45.62 |
| 164 | 256.39 | 45.49 |
| 165 | 257.99 | 45.37 |
| 166 | 259.58 | 45.32 |
| 167 | 261.18 | 45.38 |
| 168 | 262.78 | 45.48 |
| 169 | 264.38 | 45.62 |
| 170 | 265.97 | 45.60 |
| 171 | 267.57 | 45.61 |
| 172 | 269.17 | 45.64 |
| 173 | 270.77 | 45.68 |
| 174 | 272.36 | 45.73 |
| 175 | 273.96 | 45.68 |
| 176 | 275.56 | 45.68 |
| 177 | 277.16 | 45.80 |
| 178 | 278.75 | 45.83 |
| 179 | 280.35 | 45.81 |
| 180 | 281.95 | 45.61 |
| 181 | 283.54 | 45.32 |
| 182 | 285.14 | 45.26 |
| 183 | 286.74 | 45.25 |
| 184 | 288.34 | 45.23 |
| 185 | 289.93 | 45.36 |
| 186 | 291.53 | 45.57 |
| 187 | 293.13 | 45.62 |
| 188 | 294.73 | 45.63 |
| 189 | 296.32 | 45.60 |
| 190 | 297.92 | 45.53 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 191 | 299.52 | 45.43 |
| 192 | 301.12 | 45.16 |
| 193 | 302.78 | 44.89 |
| 194 | 304.43 | 44.59 |
| 195 | 306.09 | 44.33 |
| 196 | 307.75 | 44.22 |
| 197 | 309.41 | 44.17 |
| 198 | 311.07 | 44.12 |
| 199 | 312.73 | 44.01 |
| 200 | 314.39 | 44.01 |
| 201 | 316.05 | 44.04 |
| 202 | 317.70 | 44.10 |
| 203 | 319.36 | 44.24 |
| 204 | 321.02 | 44.33 |
| 205 | 322.68 | 44.36 |
| 206 | 324.34 | 44.60 |
| 207 | 326.00 | 44.89 |
| 208 | 327.66 | 45.15 |
| 209 | 329.32 | 45.33 |
| 210 | 330.97 | 45.42 |
| 211 | 332.63 | 45.53 |
| 212 | 334.29 | 45.82 |
| 213 | 335.95 | 46.07 |
| 214 | 337.61 | 46.39 |
| 215 | 339.27 | 46.59 |
| 216 | 340.93 | 46.69 |
| 217 | 342.59 | 46.95 |
| 218 | 344.25 | 47.19 |
| 219 | 345.90 | 47.39 |
| 220 | 347.56 | 47.49 |
| 221 | 349.22 | 47.42 |
| 222 | 350.88 | 47.26 |
| 223 | 352.54 | 47.24 |
| 224 | 354.20 | 47.19 |
| 225 | 355.70 | 47.34 |
| 226 | 357.20 | 47.45 |
| 227 | 358.69 | 47.49 |
| 228 | 360.19 | 47.59 |
| 229 | 361.69 | 47.59 |
| 230 | 363.19 | 47.53 |
| 231 | 364.69 | 47.23 |
| 232 | 366.19 | 46.76 |
| 233 | 367.69 | 46.34 |
| 234 | 369.18 | 46.00 |
| 235 | 370.68 | 45.75 |
| 236 | 372.18 | 45.51 |
| 237 | 373.68 | 45.22 |
| 238 | 375.18 | 44.99 |
| 239 | 376.68 | 44.85 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 240 | 378.18 | 44.82 |
| 241 | 379.67 | 44.84 |
| 242 | 381.17 | 45.10 |
| 243 | 382.67 | 45.30 |
| 244 | 384.17 | 45.39 |
| 245 | 385.67 | 45.29 |
| 246 | 387.17 | 45.05 |
| 247 | 388.67 | 44.96 |
| 248 | 390.17 | 44.94 |
| 249 | 391.66 | 45.01 |
| 250 | 393.16 | 45.05 |
| 251 | 394.66 | 45.05 |
| 252 | 396.16 | 45.06 |
| 253 | 397.66 | 45.12 |
| 254 | 399.16 | 45.18 |
| 255 | 400.66 | 45.22 |
| 256 | 402.15 | 45.23 |
| 257 | 403.57 | 45.25 |
| 258 | 404.98 | 45.30 |
| 259 | 406.39 | 45.27 |
| 260 | 407.80 | 45.21 |
| 261 | 409.21 | 45.27 |
| 262 | 410.62 | 45.30 |
| 263 | 412.03 | 45.24 |
| 264 | 413.44 | 45.23 |
| 265 | 414.85 | 45.27 |
| 266 | 416.26 | 45.28 |
| 267 | 417.67 | 45.28 |
| 268 | 419.08 | 45.33 |
| 269 | 420.49 | 45.37 |
| 270 | 421.91 | 45.35 |
| 271 | 423.32 | 45.35 |
| 272 | 424.73 | 45.37 |
| 273 | 426.14 | 45.43 |
| 274 | 427.55 | 45.51 |
| 275 | 428.96 | 45.49 |
| 276 | 430.37 | 45.43 |
| 277 | 431.78 | 45.40 |
| 278 | 433.19 | 45.37 |
| 279 | 434.60 | 45.36 |
| 280 | 436.01 | 45.34 |
| 281 | 437.42 | 45.32 |
| 282 | 438.83 | 45.30 |
| 283 | 440.25 | 45.29 |
| 284 | 441.66 | 45.30 |
| 285 | 443.07 | 45.30 |
| 286 | 444.48 | 45.31 |
| 287 | 445.89 | 45.31 |
| 288 | 447.30 | 45.31 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 289 | 448.71 | 45.30 |
| 290 | 450.12 | 45.27 |
| 291 | 451.53 | 45.33 |
| 292 | 452.94 | 45.40 |
| 293 | 454.35 | 45.56 |
| 294 | 455.76 | 45.65 |
| 295 | 457.18 | 45.63 |
| 296 | 458.59 | 45.54 |
| 297 | 460.00 | 45.40 |
| 298 | 461.41 | 45.31 |
| 299 | 462.82 | 45.23 |
| 300 | 464.23 | 45.27 |
| 301 | 465.64 | 45.33 |
| 302 | 467.05 | 45.45 |
| 303 | 468.46 | 45.55 |
| 304 | 469.87 | 45.62 |
| 305 | 471.28 | 45.63 |
| 306 | 472.69 | 45.60 |
| 307 | 474.10 | 45.51 |
| 308 | 475.52 | 45.44 |
| 309 | 476.93 | 45.45 |
| 310 | 478.34 | 45.44 |
| 311 | 479.75 | 45.42 |
| 312 | 481.16 | 45.43 |
| 313 | 482.57 | 45.45 |
| 314 | 483.98 | 45.38 |
| 315 | 485.39 | 45.30 |
| 316 | 486.80 | 45.27 |
| 317 | 488.21 | 45.26 |
| 318 | 489.62 | 45.32 |
| 319 | 491.03 | 45.34 |
| 320 | 492.44 | 45.34 |
| 321 | 493.86 | 45.29 |
| 322 | 495.27 | 45.22 |
| 323 | 496.68 | 45.17 |
| 324 | 498.09 | 45.12 |
| 325 | 499.50 | 45.06 |
| 326 | 500.91 | 45.01 |
| 327 | 502.32 | 44.99 |
| 328 | 503.73 | 44.96 |
| 329 | 505.14 | 44.94 |
| 330 | 506.55 | 44.94 |
| 331 | 507.96 | 44.94 |
| 332 | 509.37 | 44.93 |
| 333 | 510.79 | 44.92 |
| 334 | 512.20 | 44.89 |
| 335 | 513.61 | 44.83 |
| 336 | 515.02 | 44.76 |
| 337 | 516.43 | 44.79 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 338 | 517.84 | 44.85 |
| 339 | 519.25 | 44.86 |
| 340 | 520.66 | 44.88 |
| 341 | 522.07 | 44.91 |
| 342 | 523.48 | 44.96 |
| 343 | 524.89 | 45.01 |
| 344 | 526.30 | 45.01 |
| 345 | 527.71 | 44.99 |
| 346 | 529.13 | 44.96 |
| 347 | 530.54 | 44.91 |
| 348 | 531.95 | 44.84 |
| 349 | 533.36 | 44.81 |
| 350 | 534.77 | 44.83 |
| 351 | 536.18 | 44.84 |
| 352 | 537.59 | 44.85 |
| 353 | 539.00 | 44.85 |
| 354 | 540.41 | 44.85 |
| 355 | 541.82 | 44.92 |
| 356 | 543.23 | 44.98 |
| 357 | 544.64 | 44.97 |
| 358 | 546.05 | 44.96 |
| 359 | 547.47 | 44.93 |
| 360 | 548.88 | 44.87 |
| 361 | 550.29 | 44.81 |
| 362 | 551.70 | 44.88 |
| 363 | 553.11 | 44.93 |
| 364 | 554.52 | 44.88 |
| 365 | 555.93 | 44.85 |
| 366 | 557.34 | 44.85 |
| 367 | 558.75 | 44.83 |
| 368 | 560.16 | 44.80 |
| 369 | 561.57 | 44.81 |
| 370 | 562.98 | 44.82 |
| 371 | 564.40 | 44.81 |
| 372 | 565.81 | 44.81 |
| 373 | 567.22 | 44.83 |
| 374 | 568.63 | 44.83 |
| 375 | 570.04 | 44.83 |
| 376 | 571.45 | 44.84 |
| 377 | 572.86 | 44.84 |
| 378 | 574.27 | 44.86 |
| 379 | 575.68 | 44.87 |
| 380 | 577.09 | 44.86 |
| 381 | 578.50 | 44.85 |
| 382 | 579.91 | 44.84 |
| 383 | 581.32 | 44.85 |
| 384 | 582.74 | 44.86 |
| 385 | 584.46 | 44.89 |
| 386 | 586.19 | 44.89 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 387 | 587.92 | 44.89 |
| 388 | 589.65 | 44.84 |
| 389 | 591.38 | 44.83 |
| 390 | 593.10 | 44.84 |
| 391 | 594.83 | 44.86 |
| 392 | 596.56 | 44.88 |
| 393 | 598.29 | 44.89 |
| 394 | 600.02 | 44.84 |
| 395 | 601.75 | 44.85 |
| 396 | 603.47 | 44.84 |
| 397 | 605.20 | 44.82 |
| 398 | 606.93 | 44.76 |
| 399 | 608.66 | 44.74 |
| 400 | 610.39 | 44.74 |
| 401 | 612.11 | 44.81 |
| 402 | 613.84 | 44.84 |
| 403 | 615.57 | 44.86 |
| 404 | 617.30 | 44.84 |
| 405 | 619.03 | 44.81 |
| 406 | 620.76 | 44.79 |
| 407 | 622.48 | 44.81 |
| 408 | 624.21 | 44.84 |
| 409 | 625.94 | 44.89 |
| 410 | 627.67 | 44.96 |
| 411 | 629.40 | 45.01 |
| 412 | 631.13 | 45.03 |
| 413 | 632.85 | 45.03 |
| 414 | 634.58 | 45.02 |
| 415 | 636.31 | 45.00 |
| 416 | 638.04 | 44.97 |
| 417 | 639.77 | 45.00 |
| 418 | 641.49 | 45.02 |
| 419 | 643.22 | 45.03 |
| 420 | 644.95 | 45.02 |
| 421 | 646.68 | 45.03 |
| 422 | 648.41 | 45.04 |
| 423 | 650.14 | 45.04 |
| 424 | 651.86 | 45.05 |
| 425 | 653.59 | 45.07 |
| 426 | 655.32 | 45.10 |
| 427 | 657.05 | 45.11 |
| 428 | 658.78 | 45.08 |
| 429 | 660.50 | 45.04 |
| 430 | 662.23 | 45.05 |
| 431 | 663.96 | 45.06 |
| 432 | 665.69 | 45.07 |
| 433 | 667.42 | 45.04 |
| 434 | 669.15 | 45.03 |
| 435 | 670.87 | 45.04 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 436 | 672.60 | 45.07 |
| 437 | 674.33 | 45.11 |
| 438 | 676.06 | 45.14 |
| 439 | 677.79 | 45.14 |
| 440 | 679.51 | 45.13 |
| 441 | 681.24 | 45.14 |
| 442 | 682.97 | 45.17 |
| 443 | 684.70 | 45.13 |
| 444 | 686.43 | 45.11 |
| 445 | 688.16 | 45.09 |
| 446 | 689.88 | 45.04 |
| 447 | 691.61 | 45.03 |
| 448 | 693.34 | 45.03 |
| 449 | 695.07 | 45.05 |
| 450 | 696.80 | 45.06 |
| 451 | 698.52 | 45.06 |
| 452 | 700.25 | 45.05 |
| 453 | 701.98 | 45.01 |
| 454 | 703.71 | 45.00 |
| 455 | 705.44 | 45.02 |
| 456 | 707.17 | 45.04 |
| 457 | 708.89 | 45.02 |
| 458 | 710.62 | 44.99 |
| 459 | 712.35 | 44.94 |
| 460 | 714.08 | 44.96 |
| 461 | 715.81 | 45.01 |
| 462 | 717.53 | 45.07 |
| 463 | 719.26 | 45.07 |
| 464 | 720.99 | 45.06 |
| 465 | 722.72 | 45.06 |
| 466 | 724.45 | 45.03 |
| 467 | 726.18 | 45.01 |
| 468 | 727.90 | 44.98 |
| 469 | 729.63 | 44.99 |
| 470 | 731.36 | 44.96 |
| 471 | 733.09 | 44.92 |
| 472 | 734.82 | 44.93 |
| 473 | 736.54 | 44.94 |
| 474 | 738.27 | 44.93 |
| 475 | 740.00 | 44.92 |
| 476 | 741.73 | 44.90 |
| 477 | 743.46 | 44.90 |
| 478 | 745.19 | 44.92 |
| 479 | 746.91 | 44.97 |
| 480 | 748.64 | 44.98 |
| 481 | 750.37 | 44.94 |
| 482 | 752.10 | 44.89 |
| 483 | 753.83 | 44.85 |
| 484 | 755.56 | 44.83 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 485 | 757.28 | 44.86 |
| 486 | 759.01 | 44.90 |
| 487 | 760.74 | 44.93 |
| 488 | 762.47 | 44.92 |
| 489 | 764.20 | 44.92 |
| 490 | 765.92 | 44.94 |
| 491 | 767.65 | 44.97 |
| 492 | 769.38 | 44.92 |
| 493 | 771.11 | 44.90 |
| 494 | 772.84 | 44.93 |
| 495 | 774.57 | 44.93 |
| 496 | 776.29 | 44.94 |
| 497 | 778.02 | 44.96 |
| 498 | 779.75 | 45.00 |
| 499 | 781.48 | 45.02 |
| 500 | 783.21 | 45.03 |
| 501 | 784.93 | 45.09 |
| 502 | 786.66 | 45.09 |
| 503 | 788.39 | 45.05 |
| 504 | 790.12 | 44.99 |
| 505 | 791.85 | 44.95 |
| 506 | 793.58 | 44.91 |
| 507 | 795.30 | 44.88 |
| 508 | 797.03 | 44.88 |
| 509 | 798.76 | 44.87 |
| 510 | 800.49 | 44.87 |
| 511 | 802.22 | 44.85 |
| 512 | 803.94 | 44.85 |

Comment:

## Weir Cross Section: X-0460W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 45.76 |
| 1 | 1.77 | 45.70 |
| 2 | 3.53 | 45.57 |
| 3 | 5.30 | 45.42 |
| 4 | 7.07 | 45.25 |
| 5 | 8.83 | 45.14 |
| 6 | 10.60 | 45.06 |
| 7 | 12.36 | 44.97 |
| 8 | 14.13 | 44.87 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 9 | 15.90 | 44.79 |
| 10 | 17.66 | 44.71 |
| 11 | 19.43 | 44.61 |
| 12 | 21.20 | 44.48 |
| 13 | 22.96 | 44.35 |
| 14 | 24.73 | 44.22 |
| 15 | 26.50 | 44.09 |
| 16 | 28.26 | 43.96 |
| 17 | 30.03 | 43.84 |
| 18 | 31.79 | 43.74 |
| 19 | 33.56 | 43.66 |
| 20 | 35.33 | 43.59 |
| 21 | 37.09 | 43.54 |
| 22 | 38.86 | 43.54 |
| 23 | 40.63 | 43.52 |
| 24 | 42.39 | 43.51 |
| 25 | 44.16 | 43.49 |
| 26 | 45.93 | 43.45 |
| 27 | 47.69 | 43.42 |
| 28 | 49.46 | 43.39 |
| 29 | 51.23 | 43.40 |
| 30 | 52.99 | 43.39 |
| 31 | 54.76 | 43.39 |
| 32 | 56.52 | 43.40 |
| 33 | 58.29 | 43.44 |
| 34 | 60.06 | 43.49 |
| 35 | 61.82 | 43.53 |
| 36 | 63.59 | 43.53 |
| 37 | 65.36 | 43.55 |
| 38 | 67.12 | 43.57 |
| 39 | 68.89 | 43.59 |
| 40 | 70.66 | 43.59 |
| 41 | 72.42 | 43.60 |
| 42 | 74.19 | 43.62 |
| 43 | 75.95 | 43.64 |
| 44 | 77.72 | 43.67 |
| 45 | 79.49 | 43.70 |
| 46 | 81.25 | 43.82 |
| 47 | 83.02 | 43.90 |
| 48 | 84.79 | 43.97 |
| 49 | 86.55 | 44.08 |
| 50 | 88.32 | 44.13 |
| 51 | 90.09 | 44.13 |
| 52 | 91.85 | 44.11 |
| 53 | 93.62 | 44.13 |
| 54 | 95.38 | 44.19 |
| 55 | 97.15 | 44.28 |
| 56 | 98.92 | 44.36 |
| 57 | 100.68 | 44.40 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 58 | 102.45 | 44.42 |
| 59 | 104.22 | 44.48 |
| 60 | 105.98 | 44.58 |
| 61 | 107.75 | 44.66 |
| 62 | 109.52 | 44.71 |
| 63 | 111.28 | 44.63 |
| 64 | 113.05 | 44.65 |
| 65 | 114.82 | 44.72 |
| 66 | 116.58 | 44.66 |
| 67 | 118.35 | 44.67 |
| 68 | 120.11 | 44.74 |
| 69 | 121.88 | 44.84 |
| 70 | 123.65 | 45.03 |
| 71 | 125.41 | 45.24 |
| 72 | 127.18 | 45.42 |
| 73 | 128.95 | 45.45 |
| 74 | 130.71 | 45.49 |
| 75 | 132.48 | 45.53 |
| 76 | 134.25 | 45.54 |
| 77 | 136.01 | 45.41 |
| 78 | 137.78 | 45.24 |
| 79 | 139.54 | 45.06 |
| 80 | 141.31 | 45.22 |
| 81 | 143.08 | 45.34 |
| 82 | 144.84 | 45.41 |
| 83 | 146.61 | 45.45 |
| 84 | 148.38 | 45.48 |
| 85 | 150.14 | 45.50 |
| 86 | 151.91 | 45.50 |
| 87 | 153.68 | 45.58 |
| 88 | 155.44 | 45.60 |
| 89 | 157.21 | 45.56 |
| 90 | 158.97 | 45.59 |
| 91 | 160.74 | 45.47 |
| 92 | 162.51 | 45.29 |
| 93 | 164.27 | 45.15 |
| 94 | 166.04 | 45.00 |
| 95 | 167.81 | 44.91 |
| 96 | 169.57 | 44.90 |
| 97 | 171.34 | 45.00 |
| 98 | 173.11 | 44.99 |
| 99 | 174.87 | 44.93 |
| 100 | 176.64 | 44.95 |
| 101 | 178.41 | 44.91 |
| 102 | 180.17 | 44.89 |
| 103 | 181.94 | 44.92 |
| 104 | 183.70 | 44.88 |
| 105 | 185.47 | 44.88 |
| 106 | 187.24 | 44.95 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 107 | 189.00 | 45.00 |
| 108 | 190.77 | 45.03 |
| 109 | 192.54 | 45.04 |
| 110 | 194.30 | 45.00 |
| 111 | 196.07 | 44.99 |
| 112 | 197.84 | 45.03 |
| 113 | 199.60 | 45.10 |
| 114 | 201.37 | 45.11 |
| 115 | 203.13 | 45.04 |
| 116 | 204.90 | 44.91 |
| 117 | 206.67 | 44.85 |
| 118 | 208.43 | 44.94 |
| 119 | 210.20 | 45.04 |
| 120 | 211.97 | 45.04 |
| 121 | 213.73 | 45.00 |
| 122 | 215.50 | 44.95 |
| 123 | 217.27 | 44.89 |
| 124 | 219.03 | 44.89 |
| 125 | 220.80 | 44.87 |
| 126 | 222.56 | 44.86 |
| 127 | 224.33 | 44.87 |
| 128 | 226.10 | 44.85 |

Comment:

## Weir Cross Section: X-0730W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 136.02 |
| 1 | 1.63 | 136.04 |
| 2 | 3.26 | 136.04 |
| 3 | 4.89 | 136.05 |
| 4 | 6.53 | 136.06 |
| 5 | 8.16 | 136.06 |
| 6 | 9.79 | 136.06 |
| 7 | 11.42 | 136.06 |
| 8 | 13.05 | 136.08 |
| 9 | 14.68 | 136.08 |
| 10 | 16.31 | 136.08 |
| 11 | 17.94 | 136.09 |
| 12 | 19.58 | 136.10 |
| 13 | 21.21 | 136.10 |
| 14 | 22.84 | 136.11 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 15 | 24.47 | 136.12 |
| 16 | 26.10 | 136.13 |
| 17 | 27.73 | 136.12 |
| 18 | 29.36 | 136.11 |
| 19 | 30.99 | 136.13 |
| 20 | 32.63 | 136.14 |
| 21 | 34.26 | 136.14 |
| 22 | 35.89 | 136.13 |
| 23 | 37.52 | 136.13 |
| 24 | 39.15 | 136.12 |
| 25 | 40.78 | 136.11 |
| 26 | 42.41 | 136.10 |
| 27 | 44.05 | 136.09 |
| 28 | 45.68 | 136.06 |
| 29 | 47.31 | 136.07 |
| 30 | 48.94 | 136.09 |
| 31 | 50.57 | 136.26 |
| 32 | 52.20 | 136.39 |
| 33 | 53.83 | 136.48 |
| 34 | 55.46 | 136.52 |
| 35 | 57.10 | 136.55 |
| 36 | 58.73 | 136.57 |
| 37 | 60.36 | 136.65 |
| 38 | 61.99 | 136.70 |
| 39 | 63.62 | 136.67 |
| 40 | 65.25 | 136.68 |
| 41 | 66.88 | 136.70 |
| 42 | 68.52 | 136.70 |
| 43 | 70.15 | 136.64 |
| 44 | 71.78 | 136.56 |
| 45 | 73.41 | 136.46 |
| 46 | 75.04 | 136.44 |
| 47 | 76.67 | 136.46 |
| 48 | 78.30 | 136.44 |
| 49 | 79.93 | 136.40 |
| 50 | 81.57 | 136.35 |
| 51 | 83.20 | 136.32 |
| 52 | 84.83 | 136.30 |
| 53 | 86.46 | 136.29 |
| 54 | 88.09 | 136.28 |
| 55 | 89.72 | 136.29 |
| 56 | 91.35 | 136.32 |
| 57 | 92.98 | 136.30 |
| 58 | 94.62 | 136.28 |
| 59 | 96.25 | 136.25 |
| 60 | 97.88 | 136.23 |
| 61 | 99.51 | 136.20 |
| 62 | 101.14 | 136.15 |
| 63 | 102.77 | 136.13 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 64 | 104.40 | 136.11 |
| 65 | 106.37 | 136.14 |
| 66 | 108.33 | 136.19 |
| 67 | 110.29 | 136.19 |
| 68 | 112.25 | 136.25 |
| 69 | 114.21 | 136.28 |
| 70 | 116.17 | 136.20 |
| 71 | 118.13 | 136.07 |
| 72 | 120.10 | 136.03 |
| 73 | 122.06 | 135.92 |
| 74 | 124.02 | 135.87 |
| 75 | 125.98 | 135.86 |
| 76 | 127.94 | 135.83 |
| 77 | 129.90 | 135.82 |
| 78 | 131.86 | 135.80 |
| 79 | 133.83 | 135.75 |
| 80 | 135.79 | 135.69 |
| 81 | 137.75 | 135.61 |
| 82 | 139.71 | 135.60 |
| 83 | 141.67 | 135.57 |
| 84 | 143.63 | 135.53 |
| 85 | 145.59 | 135.45 |
| 86 | 147.56 | 135.41 |
| 87 | 149.52 | 135.36 |
| 88 | 151.48 | 135.31 |
| 89 | 153.44 | 135.27 |
| 90 | 155.40 | 135.22 |
| 91 | 157.36 | 135.21 |
| 92 | 159.32 | 135.10 |
| 93 | 161.29 | 135.03 |
| 94 | 163.25 | 135.04 |
| 95 | 165.21 | 135.02 |
| 96 | 167.17 | 134.91 |
| 97 | 169.00 | 134.90 |
| 98 | 170.84 | 134.90 |
| 99 | 172.67 | 134.90 |
| 100 | 174.51 | 134.89 |
| 101 | 176.34 | 134.89 |
| 102 | 178.18 | 134.86 |
| 103 | 180.01 | 134.81 |
| 104 | 181.85 | 134.79 |
| 105 | 183.68 | 134.78 |
| 106 | 185.51 | 134.78 |
| 107 | 187.35 | 134.73 |
| 108 | 189.18 | 134.67 |
| 109 | 191.02 | 134.61 |
| 110 | 192.85 | 134.55 |
| 111 | 194.69 | 134.49 |
| 112 | 196.52 | 134.44 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 113 | 198.35 | 134.40 |
| 114 | 200.19 | 134.37 |
| 115 | 202.02 | 134.32 |
| 116 | 203.86 | 134.23 |
| 117 | 205.69 | 134.17 |
| 118 | 207.53 | 134.12 |
| 119 | 209.36 | 134.05 |
| 120 | 211.20 | 133.98 |
| 121 | 213.03 | 133.90 |
| 122 | 214.86 | 133.82 |
| 123 | 216.70 | 133.74 |
| 124 | 218.53 | 133.67 |
| 125 | 220.37 | 133.60 |
| 126 | 222.20 | 133.52 |
| 127 | 224.04 | 133.45 |
| 128 | 225.87 | 133.38 |
| 129 | 227.70 | 133.31 |
| 130 | 229.54 | 133.21 |
| 131 | 231.37 | 133.17 |
| 132 | 233.21 | 133.18 |
| 133 | 235.04 | 133.20 |
| 134 | 236.88 | 133.19 |
| 135 | 238.71 | 133.17 |
| 136 | 240.54 | 133.19 |
| 137 | 242.38 | 133.20 |
| 138 | 244.21 | 133.21 |
| 139 | 246.05 | 133.20 |
| 140 | 247.88 | 133.16 |
| 141 | 249.72 | 133.14 |
| 142 | 251.55 | 133.14 |
| 143 | 253.39 | 133.14 |
| 144 | 255.22 | 133.20 |
| 145 | 257.05 | 133.23 |
| 146 | 258.89 | 133.25 |
| 147 | 260.72 | 133.30 |
| 148 | 262.56 | 133.37 |
| 149 | 264.39 | 133.40 |
| 150 | 266.23 | 133.42 |
| 151 | 268.06 | 133.42 |
| 152 | 269.89 | 133.44 |
| 153 | 271.73 | 133.53 |
| 154 | 273.56 | 133.61 |
| 155 | 275.40 | 133.66 |
| 156 | 277.23 | 133.74 |
| 157 | 279.07 | 133.84 |
| 158 | 280.90 | 133.93 |
| 159 | 282.74 | 133.99 |
| 160 | 284.57 | 134.10 |
| 161 | 286.40 | 134.19 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 162 | 288.24 | 134.24 |
| 163 | 290.07 | 134.28 |
| 164 | 291.91 | 134.31 |
| 165 | 293.74 | 134.38 |
| 166 | 295.58 | 134.40 |
| 167 | 297.41 | 134.36 |
| 168 | 299.24 | 134.31 |
| 169 | 301.08 | 134.29 |
| 170 | 302.91 | 134.24 |
| 171 | 304.75 | 134.24 |
| 172 | 306.58 | 134.36 |
| 173 | 308.42 | 134.31 |
| 174 | 310.25 | 134.22 |
| 175 | 312.08 | 134.14 |
| 176 | 313.92 | 134.12 |
| 177 | 315.75 | 134.09 |
| 178 | 317.59 | 134.03 |
| 179 | 319.42 | 134.01 |
| 180 | 321.26 | 133.97 |
| 181 | 323.09 | 133.97 |
| 182 | 324.93 | 134.00 |
| 183 | 326.76 | 134.06 |
| 184 | 328.59 | 134.11 |
| 185 | 330.43 | 134.14 |
| 186 | 332.26 | 134.18 |
| 187 | 334.10 | 134.22 |
| 188 | 335.93 | 134.23 |
| 189 | 337.77 | 134.25 |
| 190 | 339.60 | 134.29 |
| 191 | 341.43 | 134.37 |
| 192 | 343.27 | 134.39 |
| 193 | 345.10 | 134.43 |
| 194 | 346.94 | 134.55 |
| 195 | 348.77 | 134.60 |
| 196 | 350.61 | 134.66 |
| 197 | 352.44 | 134.76 |
| 198 | 354.28 | 134.86 |
| 199 | 356.11 | 134.86 |
| 200 | 357.94 | 134.87 |
| 201 | 359.78 | 134.96 |
| 202 | 361.61 | 135.00 |
| 203 | 363.45 | 135.00 |
| 204 | 365.28 | 135.00 |
| 205 | 367.12 | 135.05 |
| 206 | 368.95 | 135.17 |
| 207 | 370.78 | 135.29 |
| 208 | 372.62 | 135.22 |
| 209 | 374.45 | 135.12 |
| 210 | 376.29 | 134.98 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 211 | 378.12 | 134.87 |
| 212 | 379.96 | 134.94 |
| 213 | 381.79 | 135.03 |
| 214 | 383.62 | 135.07 |
| 215 | 385.46 | 135.03 |
| 216 | 387.29 | 134.99 |
| 217 | 389.13 | 134.91 |
| 218 | 390.96 | 134.87 |
| 219 | 392.80 | 134.81 |
| 220 | 394.63 | 134.76 |
| 221 | 396.47 | 134.81 |
| 222 | 398.30 | 134.79 |
| 223 | 400.13 | 134.78 |
| 224 | 401.97 | 134.77 |
| 225 | 404.33 | 134.76 |
| 226 | 406.70 | 134.69 |
| 227 | 409.07 | 134.64 |
| 228 | 411.43 | 134.66 |
| 229 | 413.80 | 134.74 |
| 230 | 416.16 | 134.93 |
| 231 | 418.53 | 135.06 |
| 232 | 420.90 | 135.09 |
| 233 | 423.26 | 135.06 |
| 234 | 425.63 | 135.04 |
| 235 | 428.00 | 135.07 |
| 236 | 430.36 | 135.06 |
| 237 | 432.73 | 135.04 |
| 238 | 435.09 | 135.02 |
| 239 | 437.46 | 134.93 |
| 240 | 439.83 | 134.83 |
| 241 | 442.19 | 134.69 |
| 242 | 444.56 | 134.59 |
| 243 | 446.92 | 134.64 |
| 244 | 449.29 | 134.67 |
| 245 | 451.66 | 134.62 |
| 246 | 454.02 | 134.57 |
| 247 | 456.39 | 134.61 |
| 248 | 458.75 | 134.70 |
| 249 | 461.12 | 134.82 |
| 250 | 463.49 | 134.93 |
| 251 | 465.85 | 134.85 |
| 252 | 468.22 | 135.03 |
| 253 | 470.58 | 135.14 |
| 254 | 472.95 | 135.09 |
| 255 | 475.32 | 134.89 |
| 256 | 477.68 | 134.73 |
| 257 | 480.05 | 134.67 |
| 258 | 482.41 | 134.55 |
| 259 | 484.78 | 134.60 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 260 | 487.15 | 134.53 |
| 261 | 489.51 | 134.37 |
| 262 | 491.88 | 134.50 |
| 263 | 494.25 | 134.58 |
| 264 | 496.61 | 134.53 |
| 265 | 498.98 | 134.48 |
| 266 | 501.34 | 134.50 |
| 267 | 503.71 | 134.55 |
| 268 | 506.08 | 134.64 |
| 269 | 508.44 | 134.69 |
| 270 | 510.81 | 134.71 |
| 271 | 513.17 | 134.80 |
| 272 | 515.54 | 134.90 |
| 273 | 517.91 | 134.90 |
| 274 | 520.27 | 134.75 |
| 275 | 522.64 | 134.79 |
| 276 | 525.00 | 134.80 |
| 277 | 527.37 | 134.75 |
| 278 | 529.74 | 134.70 |
| 279 | 532.10 | 134.56 |
| 280 | 534.47 | 134.46 |
| 281 | 536.83 | 134.39 |
| 282 | 539.20 | 134.30 |
| 283 | 541.57 | 134.31 |
| 284 | 543.93 | 134.30 |
| 285 | 546.30 | 134.25 |
| 286 | 548.66 | 134.20 |
| 287 | 551.03 | 134.27 |
| 288 | 553.40 | 134.40 |
| 289 | 554.89 | 134.45 |
| 290 | 556.39 | 134.49 |
| 291 | 557.89 | 134.52 |
| 292 | 559.39 | 134.54 |
| 293 | 560.89 | 134.58 |
| 294 | 562.38 | 134.67 |
| 295 | 563.88 | 134.72 |
| 296 | 565.38 | 134.66 |
| 297 | 566.88 | 134.53 |
| 298 | 568.37 | 134.40 |
| 299 | 569.87 | 134.29 |
| 300 | 571.37 | 134.16 |
| 301 | 572.87 | 134.08 |
| 302 | 574.37 | 134.11 |
| 303 | 575.86 | 134.13 |
| 304 | 577.36 | 134.10 |
| 305 | 578.86 | 134.10 |
| 306 | 580.36 | 134.20 |
| 307 | 581.85 | 134.32 |
| 308 | 583.35 | 134.46 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 309 | 584.85 | 134.57 |
| 310 | 586.35 | 134.51 |
| 311 | 587.84 | 134.50 |
| 312 | 589.34 | 134.50 |
| 313 | 590.84 | 134.47 |
| 314 | 592.34 | 134.50 |
| 315 | 593.84 | 134.52 |
| 316 | 595.33 | 134.55 |
| 317 | 596.83 | 134.50 |
| 318 | 598.33 | 134.37 |
| 319 | 599.83 | 134.30 |
| 320 | 601.32 | 134.27 |
| 321 | 602.82 | 134.26 |
| 322 | 604.32 | 134.28 |
| 323 | 605.82 | 134.32 |
| 324 | 607.31 | 134.35 |
| 325 | 608.81 | 134.37 |
| 326 | 610.31 | 134.45 |
| 327 | 611.81 | 134.49 |
| 328 | 613.31 | 134.56 |
| 329 | 614.80 | 134.70 |
| 330 | 616.30 | 134.81 |
| 331 | 617.80 | 134.82 |
| 332 | 619.30 | 134.78 |
| 333 | 620.79 | 134.74 |
| 334 | 622.29 | 134.68 |
| 335 | 623.79 | 134.63 |
| 336 | 625.29 | 134.62 |
| 337 | 626.79 | 134.62 |
| 338 | 628.28 | 134.58 |
| 339 | 629.78 | 134.47 |
| 340 | 631.28 | 134.43 |
| 341 | 632.78 | 134.43 |
| 342 | 634.27 | 134.44 |
| 343 | 635.77 | 134.51 |
| 344 | 637.27 | 134.56 |
| 345 | 638.77 | 134.65 |
| 346 | 640.26 | 134.72 |
| 347 | 641.76 | 134.75 |
| 348 | 643.26 | 134.76 |
| 349 | 644.76 | 134.76 |
| 350 | 646.26 | 134.73 |
| 351 | 647.75 | 134.78 |
| 352 | 649.25 | 134.78 |
| 353 | 650.75 | 134.76 |
| 354 | 652.25 | 134.76 |
| 355 | 653.74 | 134.71 |
| 356 | 655.24 | 134.74 |
| 357 | 656.74 | 134.75 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 358 | 658.24 | 134.78 |
| 359 | 659.73 | 134.74 |
| 360 | 661.23 | 134.60 |
| 361 | 662.73 | 134.53 |
| 362 | 664.23 | 134.52 |
| 363 | 665.73 | 134.54 |
| 364 | 667.22 | 134.59 |
| 365 | 668.72 | 134.68 |
| 366 | 670.22 | 134.77 |
| 367 | 671.72 | 134.83 |
| 368 | 673.21 | 134.88 |
| 369 | 674.71 | 134.89 |
| 370 | 676.21 | 134.90 |
| 371 | 677.71 | 134.86 |
| 372 | 679.21 | 134.79 |
| 373 | 680.70 | 134.73 |
| 374 | 682.20 | 134.78 |
| 375 | 683.70 | 134.80 |
| 376 | 685.20 | 134.77 |
| 377 | 686.69 | 134.68 |
| 378 | 688.19 | 134.59 |
| 379 | 689.69 | 134.51 |
| 380 | 691.19 | 134.46 |
| 381 | 692.68 | 134.43 |
| 382 | 694.18 | 134.45 |
| 383 | 695.68 | 134.44 |
| 384 | 697.18 | 134.41 |
| 385 | 698.68 | 134.41 |
| 386 | 700.17 | 134.49 |
| 387 | 701.67 | 134.54 |
| 388 | 703.17 | 134.57 |
| 389 | 704.67 | 134.64 |
| 390 | 706.16 | 134.73 |
| 391 | 707.66 | 134.79 |
| 392 | 709.16 | 134.76 |
| 393 | 710.66 | 134.70 |
| 394 | 712.16 | 134.76 |
| 395 | 713.65 | 134.82 |
| 396 | 715.15 | 134.84 |
| 397 | 716.65 | 134.81 |
| 398 | 718.15 | 134.71 |
| 399 | 719.64 | 134.60 |
| 400 | 721.14 | 134.54 |
| 401 | 722.64 | 134.51 |
| 402 | 724.14 | 134.47 |
| 403 | 725.63 | 134.39 |
| 404 | 727.13 | 134.36 |
| 405 | 728.63 | 134.37 |
| 406 | 730.13 | 134.31 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 407 | 731.63 | 134.22 |
| 408 | 733.12 | 134.21 |
| 409 | 734.62 | 134.30 |
| 410 | 736.12 | 134.39 |
| 411 | 737.62 | 134.48 |
| 412 | 739.11 | 134.48 |
| 413 | 740.61 | 134.40 |
| 414 | 742.11 | 134.32 |
| 415 | 743.61 | 134.24 |
| 416 | 745.10 | 134.13 |
| 417 | 746.88 | 133.99 |
| 418 | 748.66 | 133.94 |
| 419 | 750.44 | 133.83 |
| 420 | 752.22 | 133.78 |
| 421 | 754.00 | 133.80 |
| 422 | 755.78 | 133.78 |
| 423 | 757.56 | 133.80 |
| 424 | 759.34 | 133.91 |
| 425 | 761.12 | 133.95 |
| 426 | 762.90 | 133.95 |
| 427 | 764.68 | 134.01 |
| 428 | 766.46 | 134.07 |
| 429 | 768.24 | 134.05 |
| 430 | 770.02 | 133.99 |
| 431 | 771.80 | 133.88 |
| 432 | 773.58 | 133.87 |
| 433 | 775.36 | 133.92 |
| 434 | 777.14 | 133.79 |
| 435 | 778.92 | 133.70 |
| 436 | 780.70 | 133.77 |
| 437 | 782.48 | 133.81 |
| 438 | 784.26 | 133.80 |
| 439 | 786.04 | 133.82 |
| 440 | 787.82 | 133.85 |
| 441 | 789.60 | 133.88 |
| 442 | 791.38 | 133.88 |
| 443 | 793.16 | 133.81 |
| 444 | 794.94 | 133.85 |
| 445 | 796.72 | 134.00 |
| 446 | 798.50 | 133.97 |
| 447 | 800.28 | 133.95 |
| 448 | 802.06 | 133.84 |
| 449 | 803.84 | 133.76 |
| 450 | 805.62 | 133.70 |
| 451 | 807.40 | 133.63 |
| 452 | 809.18 | 133.60 |
| 453 | 810.96 | 133.67 |
| 454 | 812.74 | 133.70 |
| 455 | 814.52 | 133.68 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 456 | 816.30 | 133.77 |
| 457 | 818.08 | 133.94 |
| 458 | 819.86 | 134.04 |
| 459 | 821.64 | 134.10 |
| 460 | 823.42 | 134.02 |
| 461 | 825.20 | 133.97 |
| 462 | 826.98 | 133.98 |
| 463 | 828.76 | 133.93 |
| 464 | 830.54 | 133.85 |
| 465 | 832.32 | 133.69 |
| 466 | 834.10 | 133.62 |
| 467 | 835.88 | 133.65 |
| 468 | 837.66 | 133.64 |
| 469 | 839.44 | 133.65 |
| 470 | 841.22 | 133.65 |
| 471 | 843.00 | 133.66 |
| 472 | 844.78 | 133.78 |
| 473 | 846.56 | 133.89 |
| 474 | 848.34 | 133.92 |
| 475 | 850.12 | 133.94 |
| 476 | 851.90 | 133.96 |
| 477 | 853.68 | 134.01 |
| 478 | 855.46 | 134.01 |
| 479 | 857.24 | 133.98 |
| 480 | 859.02 | 133.92 |
| 481 | 860.80 | 133.87 |
| 482 | 862.58 | 133.83 |
| 483 | 864.36 | 133.80 |
| 484 | 866.14 | 133.74 |
| 485 | 867.92 | 133.75 |
| 486 | 869.70 | 133.79 |
| 487 | 871.48 | 133.83 |
| 488 | 873.26 | 133.91 |
| 489 | 875.04 | 133.90 |
| 490 | 876.82 | 133.85 |
| 491 | 878.60 | 133.78 |
| 492 | 880.38 | 133.77 |
| 493 | 882.16 | 133.81 |
| 494 | 883.94 | 133.80 |
| 495 | 885.72 | 133.84 |
| 496 | 887.50 | 133.85 |
| 497 | 889.28 | 133.79 |
| 498 | 891.06 | 133.67 |
| 499 | 892.84 | 133.59 |
| 500 | 894.62 | 133.50 |
| 501 | 896.40 | 133.48 |
| 502 | 898.18 | 133.47 |
| 503 | 899.96 | 133.47 |
| 504 | 901.74 | 133.50 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 505 | 903.52 | 133.57 |
| 506 | 905.30 | 133.57 |
| 507 | 907.08 | 133.56 |
| 508 | 908.86 | 133.52 |
| 509 | 910.64 | 133.47 |
| 510 | 912.42 | 133.50 |
| 511 | 914.20 | 133.51 |
| 512 | 915.98 | 133.46 |
| 513 | 917.76 | 133.34 |
| 514 | 919.54 | 133.24 |
| 515 | 921.32 | 133.34 |
| 516 | 923.10 | 133.42 |
| 517 | 924.88 | 133.31 |
| 518 | 926.66 | 133.22 |
| 519 | 928.44 | 133.18 |
| 520 | 930.22 | 133.12 |
| 521 | 932.00 | 133.10 |
| 522 | 933.78 | 133.14 |
| 523 | 935.56 | 133.15 |
| 524 | 937.34 | 133.18 |
| 525 | 939.12 | 133.22 |
| 526 | 940.90 | 133.23 |
| 527 | 942.68 | 133.24 |
| 528 | 944.46 | 133.25 |
| 529 | 946.24 | 133.25 |
| 530 | 948.02 | 133.21 |
| 531 | 949.80 | 133.12 |
| 532 | 951.58 | 132.94 |
| 533 | 953.36 | 132.74 |
| 534 | 955.14 | 132.74 |
| 535 | 956.92 | 132.69 |
| 536 | 958.70 | 132.69 |
| 537 | 960.48 | 132.68 |
| 538 | 962.26 | 132.68 |
| 539 | 964.04 | 132.74 |
| 540 | 965.82 | 132.84 |
| 541 | 967.60 | 132.85 |
| 542 | 969.38 | 132.79 |
| 543 | 971.16 | 132.79 |
| 544 | 972.94 | 132.80 |
| 545 | 974.76 | 132.79 |
| 546 | 976.57 | 132.76 |
| 547 | 978.38 | 132.77 |
| 548 | 980.20 | 132.74 |
| 549 | 982.01 | 132.68 |
| 550 | 983.83 | 132.73 |
| 551 | 985.64 | 132.79 |
| 552 | 987.45 | 132.86 |
| 553 | 989.27 | 132.89 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 554 | 991.08 | 132.94 |
| 555 | 992.90 | 132.99 |
| 556 | 994.71 | 133.07 |
| 557 | 996.52 | 133.13 |
| 558 | 998.34 | 133.16 |
| 559 | 1000.15 | 133.18 |
| 560 | 1001.97 | 133.21 |
| 561 | 1003.78 | 133.14 |
| 562 | 1005.59 | 133.07 |
| 563 | 1007.41 | 133.04 |
| 564 | 1009.22 | 133.04 |
| 565 | 1011.04 | 133.02 |
| 566 | 1012.85 | 132.97 |
| 567 | 1014.66 | 132.99 |
| 568 | 1016.48 | 132.96 |
| 569 | 1018.29 | 132.92 |
| 570 | 1020.11 | 132.86 |
| 571 | 1021.92 | 132.82 |
| 572 | 1023.73 | 132.82 |
| 573 | 1025.55 | 132.81 |
| 574 | 1027.36 | 132.75 |
| 575 | 1029.18 | 132.63 |
| 576 | 1030.99 | 132.54 |
| 577 | 1032.80 | 132.59 |
| 578 | 1034.62 | 132.63 |
| 579 | 1036.43 | 132.66 |
| 580 | 1038.25 | 132.68 |
| 581 | 1040.06 | 132.67 |
| 582 | 1041.87 | 132.65 |
| 583 | 1043.69 | 132.64 |
| 584 | 1045.50 | 132.67 |
| 585 | 1047.32 | 132.73 |
| 586 | 1049.13 | 132.70 |
| 587 | 1050.94 | 132.60 |
| 588 | 1052.76 | 132.57 |
| 589 | 1054.57 | 132.57 |
| 590 | 1056.39 | 132.53 |
| 591 | 1058.20 | 132.40 |
| 592 | 1060.01 | 132.41 |
| 593 | 1061.83 | 132.41 |
| 594 | 1063.64 | 132.41 |
| 595 | 1065.46 | 132.47 |
| 596 | 1067.27 | 132.54 |
| 597 | 1069.08 | 132.60 |
| 598 | 1070.90 | 132.63 |
| 599 | 1072.71 | 132.50 |
| 600 | 1074.53 | 132.38 |
| 601 | 1076.34 | 132.23 |
| 602 | 1078.15 | 132.09 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 603 | 1079.97 | 132.15 |
| 604 | 1081.78 | 132.23 |
| 605 | 1083.60 | 132.17 |
| 606 | 1085.41 | 132.27 |
| 607 | 1087.22 | 132.40 |
| 608 | 1089.04 | 132.52 |
| 609 | 1090.85 | 132.52 |
| 610 | 1092.67 | 132.50 |
| 611 | 1094.48 | 132.46 |
| 612 | 1096.29 | 132.47 |
| 613 | 1098.11 | 132.37 |
| 614 | 1099.92 | 132.25 |
| 615 | 1101.74 | 132.14 |
| 616 | 1103.55 | 132.00 |
| 617 | 1105.36 | 131.96 |
| 618 | 1107.18 | 131.94 |
| 619 | 1108.99 | 131.85 |
| 620 | 1110.81 | 131.91 |
| 621 | 1112.62 | 132.01 |
| 622 | 1114.43 | 132.12 |
| 623 | 1116.25 | 132.07 |
| 624 | 1118.06 | 132.07 |
| 625 | 1119.88 | 132.07 |
| 626 | 1121.69 | 132.06 |
| 627 | 1123.50 | 131.92 |
| 628 | 1125.32 | 131.74 |
| 629 | 1127.13 | 131.54 |
| 630 | 1128.95 | 131.76 |
| 631 | 1130.76 | 131.82 |
| 632 | 1132.57 | 131.80 |
| 633 | 1134.39 | 131.80 |
| 634 | 1136.20 | 131.97 |
| 635 | 1138.02 | 132.15 |
| 636 | 1139.83 | 132.34 |
| 637 | 1141.64 | 132.36 |
| 638 | 1143.46 | 132.44 |
| 639 | 1145.27 | 132.50 |
| 640 | 1147.09 | 132.45 |
| 641 | 1148.90 | 132.35 |
| 642 | 1150.71 | 132.26 |
| 643 | 1152.53 | 132.17 |
| 644 | 1154.34 | 132.23 |
| 645 | 1156.16 | 132.23 |
| 646 | 1157.97 | 132.24 |
| 647 | 1159.78 | 132.35 |
| 648 | 1161.60 | 132.47 |
| 649 | 1163.41 | 132.58 |
| 650 | 1165.23 | 132.69 |
| 651 | 1167.04 | 132.70 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 652 | 1168.85 | 132.67 |
| 653 | 1170.67 | 132.60 |
| 654 | 1172.48 | 132.54 |
| 655 | 1174.30 | 132.35 |
| 656 | 1176.11 | 132.18 |
| 657 | 1177.92 | 132.07 |
| 658 | 1179.74 | 132.14 |
| 659 | 1181.55 | 132.13 |
| 660 | 1183.37 | 132.13 |
| 661 | 1185.18 | 132.30 |
| 662 | 1186.99 | 132.42 |
| 663 | 1188.81 | 132.46 |
| 664 | 1190.62 | 132.42 |
| 665 | 1192.44 | 132.40 |
| 666 | 1194.25 | 132.33 |
| 667 | 1196.06 | 132.26 |
| 668 | 1197.88 | 132.26 |
| 669 | 1199.69 | 132.10 |
| 670 | 1201.51 | 132.00 |
| 671 | 1203.32 | 132.00 |
| 672 | 1205.13 | 132.01 |
| 673 | 1206.58 | 131.99 |
| 674 | 1208.02 | 131.99 |
| 675 | 1209.47 | 132.00 |
| 676 | 1210.91 | 132.07 |
| 677 | 1212.36 | 132.15 |
| 678 | 1213.80 | 132.22 |
| 679 | 1215.25 | 132.29 |
| 680 | 1216.69 | 132.27 |
| 681 | 1218.14 | 132.25 |
| 682 | 1219.58 | 132.26 |
| 683 | 1221.03 | 132.26 |
| 684 | 1222.47 | 132.16 |
| 685 | 1223.91 | 132.05 |
| 686 | 1225.36 | 131.93 |
| 687 | 1226.80 | 131.74 |
| 688 | 1228.25 | 131.59 |
| 689 | 1229.69 | 131.65 |
| 690 | 1231.14 | 131.74 |
| 691 | 1232.58 | 131.82 |
| 692 | 1234.03 | 131.90 |
| 693 | 1235.47 | 131.88 |
| 694 | 1236.92 | 131.82 |
| 695 | 1238.36 | 131.88 |
| 696 | 1239.80 | 131.92 |
| 697 | 1241.25 | 131.97 |
| 698 | 1242.69 | 132.07 |
| 699 | 1244.14 | 132.18 |
| 700 | 1245.58 | 132.28 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 701 | 1247.03 | 132.34 |
| 702 | 1248.47 | 132.35 |
| 703 | 1249.92 | 132.38 |
| 704 | 1251.36 | 132.45 |
| 705 | 1252.81 | 132.52 |
| 706 | 1254.25 | 132.52 |
| 707 | 1255.69 | 132.48 |
| 708 | 1257.14 | 132.34 |
| 709 | 1258.58 | 132.28 |
| 710 | 1260.03 | 132.29 |
| 711 | 1261.47 | 132.31 |
| 712 | 1262.92 | 132.32 |
| 713 | 1264.36 | 132.34 |
| 714 | 1265.81 | 132.36 |
| 715 | 1267.25 | 132.38 |
| 716 | 1268.70 | 132.50 |
| 717 | 1270.14 | 132.69 |
| 718 | 1271.59 | 132.79 |
| 719 | 1273.03 | 132.80 |
| 720 | 1274.47 | 132.82 |
| 721 | 1275.92 | 132.87 |
| 722 | 1277.36 | 132.90 |
| 723 | 1278.81 | 132.84 |
| 724 | 1280.25 | 132.80 |
| 725 | 1281.70 | 132.81 |
| 726 | 1283.14 | 132.81 |
| 727 | 1284.59 | 132.66 |
| 728 | 1286.03 | 132.48 |
| 729 | 1287.48 | 132.34 |
| 730 | 1288.92 | 132.21 |
| 731 | 1290.36 | 132.16 |
| 732 | 1291.81 | 132.22 |
| 733 | 1293.25 | 132.25 |
| 734 | 1294.70 | 132.20 |
| 735 | 1296.14 | 132.17 |
| 736 | 1297.59 | 132.10 |
| 737 | 1299.03 | 132.08 |
| 738 | 1300.48 | 132.21 |
| 739 | 1301.92 | 132.27 |
| 740 | 1303.37 | 132.33 |
| 741 | 1304.81 | 132.43 |
| 742 | 1306.25 | 132.48 |
| 743 | 1307.70 | 132.50 |
| 744 | 1309.14 | 132.52 |
| 745 | 1310.59 | 132.54 |
| 746 | 1312.03 | 132.49 |
| 747 | 1313.48 | 132.41 |
| 748 | 1314.92 | 132.33 |
| 749 | 1316.37 | 132.23 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 750 | 1317.81 | 132.14 |
| 751 | 1319.26 | 132.08 |
| 752 | 1320.70 | 132.05 |
| 753 | 1322.15 | 132.05 |
| 754 | 1323.59 | 132.04 |
| 755 | 1325.03 | 131.98 |
| 756 | 1326.48 | 131.92 |
| 757 | 1327.92 | 132.02 |
| 758 | 1329.37 | 132.16 |
| 759 | 1330.81 | 132.22 |
| 760 | 1332.26 | 132.25 |
| 761 | 1333.70 | 132.29 |
| 762 | 1335.15 | 132.28 |
| 763 | 1336.59 | 132.27 |
| 764 | 1338.04 | 132.24 |
| 765 | 1339.48 | 132.22 |
| 766 | 1340.92 | 132.29 |
| 767 | 1342.37 | 132.36 |
| 768 | 1343.81 | 132.36 |
| 769 | 1345.26 | 132.34 |
| 770 | 1346.70 | 132.18 |
| 771 | 1348.15 | 132.01 |
| 772 | 1349.59 | 132.00 |
| 773 | 1351.04 | 132.04 |
| 774 | 1352.48 | 132.05 |
| 775 | 1353.93 | 132.04 |
| 776 | 1355.37 | 132.04 |
| 777 | 1356.81 | 132.06 |
| 778 | 1358.26 | 132.08 |
| 779 | 1359.70 | 132.14 |
| 780 | 1361.15 | 132.21 |
| 781 | 1362.59 | 132.27 |
| 782 | 1364.04 | 132.35 |
| 783 | 1365.48 | 132.39 |
| 784 | 1366.93 | 132.45 |
| 785 | 1368.37 | 132.47 |
| 786 | 1369.82 | 132.41 |
| 787 | 1371.26 | 132.34 |
| 788 | 1372.70 | 132.26 |
| 789 | 1374.15 | 132.23 |
| 790 | 1375.59 | 132.19 |
| 791 | 1377.04 | 132.13 |
| 792 | 1378.48 | 132.05 |
| 793 | 1379.93 | 132.01 |
| 794 | 1381.37 | 132.03 |
| 795 | 1382.82 | 132.04 |
| 796 | 1384.26 | 132.07 |
| 797 | 1385.71 | 132.10 |
| 798 | 1387.15 | 132.08 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 799 | 1388.60 | 132.09 |
| 800 | 1390.04 | 132.21 |
| 801 | 1392.22 | 132.38 |
| 802 | 1394.40 | 132.41 |
| 803 | 1396.58 | 132.45 |
| 804 | 1398.76 | 132.51 |
| 805 | 1400.94 | 132.57 |
| 806 | 1403.12 | 132.67 |
| 807 | 1405.30 | 132.81 |
| 808 | 1407.47 | 132.95 |
| 809 | 1409.65 | 132.89 |
| 810 | 1411.83 | 132.88 |
| 811 | 1414.01 | 132.87 |
| 812 | 1416.19 | 132.85 |
| 813 | 1418.37 | 132.90 |
| 814 | 1420.55 | 133.02 |
| 815 | 1422.73 | 133.07 |
| 816 | 1424.91 | 133.14 |
| 817 | 1427.09 | 132.99 |
| 818 | 1429.27 | 132.96 |
| 819 | 1431.45 | 132.96 |
| 820 | 1433.63 | 132.98 |
| 821 | 1435.81 | 132.98 |
| 822 | 1437.99 | 132.92 |
| 823 | 1440.16 | 132.81 |
| 824 | 1442.34 | 132.80 |
| 825 | 1444.52 | 132.75 |
| 826 | 1446.70 | 132.75 |
| 827 | 1448.88 | 132.78 |
| 828 | 1451.06 | 132.86 |
| 829 | 1453.24 | 132.92 |
| 830 | 1455.42 | 132.91 |
| 831 | 1457.60 | 132.87 |
| 832 | 1459.78 | 132.78 |
| 833 | 1461.96 | 132.95 |
| 834 | 1464.14 | 133.05 |
| 835 | 1466.32 | 133.13 |
| 836 | 1468.50 | 133.17 |
| 837 | 1470.68 | 133.10 |
| 838 | 1472.86 | 132.89 |
| 839 | 1475.03 | 132.87 |
| 840 | 1477.21 | 132.89 |
| 841 | 1479.39 | 132.89 |
| 842 | 1481.57 | 132.89 |
| 843 | 1483.75 | 132.89 |
| 844 | 1485.93 | 132.90 |
| 845 | 1488.11 | 132.87 |
| 846 | 1490.29 | 132.81 |
| 847 | 1492.47 | 132.89 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 848 | 1494.65 | 132.94 |
| 849 | 1496.83 | 133.00 |
| 850 | 1499.01 | 133.07 |
| 851 | 1501.19 | 133.20 |
| 852 | 1503.37 | 133.26 |
| 853 | 1505.55 | 133.13 |
| 854 | 1507.73 | 133.12 |
| 855 | 1509.90 | 133.18 |
| 856 | 1512.08 | 133.16 |
| 857 | 1514.26 | 133.22 |
| 858 | 1516.44 | 133.22 |
| 859 | 1518.62 | 133.12 |
| 860 | 1520.80 | 133.04 |
| 861 | 1522.98 | 133.11 |
| 862 | 1525.16 | 133.18 |
| 863 | 1527.34 | 133.29 |
| 864 | 1529.52 | 133.28 |
| 865 | 1530.86 | 133.28 |
| 866 | 1532.21 | 133.22 |
| 867 | 1533.55 | 133.12 |
| 868 | 1534.89 | 133.01 |
| 869 | 1536.24 | 132.92 |
| 870 | 1537.58 | 132.89 |
| 871 | 1538.92 | 132.81 |
| 872 | 1540.27 | 132.74 |
| 873 | 1541.61 | 132.67 |
| 874 | 1542.95 | 132.68 |
| 875 | 1544.29 | 132.68 |
| 876 | 1545.64 | 132.69 |
| 877 | 1546.98 | 132.69 |
| 878 | 1548.32 | 132.69 |
| 879 | 1549.67 | 132.65 |
| 880 | 1551.01 | 132.60 |
| 881 | 1552.35 | 132.51 |
| 882 | 1553.70 | 132.39 |
| 883 | 1555.04 | 132.30 |
| 884 | 1556.38 | 132.45 |
| 885 | 1557.73 | 132.56 |
| 886 | 1559.07 | 132.61 |
| 887 | 1560.41 | 132.62 |
| 888 | 1561.76 | 132.60 |
| 889 | 1563.10 | 132.57 |
| 890 | 1564.44 | 132.57 |
| 891 | 1565.79 | 132.59 |
| 892 | 1567.13 | 132.61 |
| 893 | 1568.47 | 132.64 |
| 894 | 1569.82 | 132.61 |
| 895 | 1571.16 | 132.45 |
| 896 | 1572.50 | 132.32 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 897 | 1573.85 | 132.31 |
| 898 | 1575.19 | 132.31 |
| 899 | 1576.53 | 132.32 |
| 900 | 1577.88 | 132.33 |
| 901 | 1579.22 | 132.33 |
| 902 | 1580.56 | 132.33 |
| 903 | 1581.91 | 132.30 |
| 904 | 1583.25 | 132.19 |
| 905 | 1584.59 | 132.10 |
| 906 | 1585.94 | 132.01 |
| 907 | 1587.28 | 131.95 |
| 908 | 1588.62 | 131.92 |
| 909 | 1589.97 | 131.91 |
| 910 | 1591.31 | 131.90 |
| 911 | 1592.65 | 131.89 |
| 912 | 1594.00 | 131.89 |
| 913 | 1595.34 | 131.89 |
| 914 | 1596.68 | 131.90 |
| 915 | 1598.03 | 131.88 |
| 916 | 1599.37 | 131.87 |
| 917 | 1600.71 | 131.88 |
| 918 | 1602.06 | 131.88 |
| 919 | 1603.40 | 131.87 |
| 920 | 1604.74 | 131.88 |
| 921 | 1606.09 | 131.90 |
| 922 | 1607.43 | 131.90 |
| 923 | 1608.77 | 131.86 |
| 924 | 1610.12 | 131.93 |
| 925 | 1611.46 | 132.00 |
| 926 | 1612.80 | 132.02 |
| 927 | 1614.15 | 132.01 |
| 928 | 1615.49 | 132.03 |
| 929 | 1617.00 | 132.03 |
| 930 | 1618.52 | 132.02 |
| 931 | 1620.03 | 132.00 |
| 932 | 1621.54 | 131.92 |
| 933 | 1623.06 | 131.90 |
| 934 | 1624.57 | 131.97 |
| 935 | 1626.08 | 132.00 |
| 936 | 1627.60 | 132.03 |
| 937 | 1629.11 | 132.07 |
| 938 | 1630.63 | 132.11 |
| 939 | 1632.14 | 132.13 |
| 940 | 1633.65 | 132.12 |
| 941 | 1635.17 | 132.09 |
| 942 | 1636.68 | 132.09 |
| 943 | 1638.19 | 132.13 |
| 944 | 1639.71 | 132.20 |
| 945 | 1641.22 | 132.23 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 946 | 1642.73 | 132.22 |
| 947 | 1644.25 | 132.14 |
| 948 | 1645.76 | 132.09 |
| 949 | 1647.27 | 132.05 |
| 950 | 1648.79 | 132.03 |
| 951 | 1650.30 | 131.99 |
| 952 | 1651.81 | 131.91 |
| 953 | 1653.33 | 131.79 |
| 954 | 1654.84 | 131.66 |
| 955 | 1656.35 | 131.69 |
| 956 | 1657.87 | 131.73 |
| 957 | 1659.38 | 131.79 |
| 958 | 1660.90 | 131.83 |
| 959 | 1662.41 | 131.86 |
| 960 | 1663.92 | 131.79 |
| 961 | 1665.80 | 131.69 |
| 962 | 1667.68 | 131.61 |
| 963 | 1669.56 | 131.61 |
| 964 | 1671.43 | 131.61 |
| 965 | 1673.31 | 131.65 |
| 966 | 1675.19 | 131.75 |
| 967 | 1677.07 | 131.69 |
| 968 | 1678.95 | 131.61 |
| 969 | 1680.82 | 131.51 |
| 970 | 1682.70 | 131.41 |
| 971 | 1684.58 | 131.25 |
| 972 | 1686.46 | 131.22 |
| 973 | 1688.34 | 131.26 |
| 974 | 1690.21 | 131.33 |
| 975 | 1692.09 | 131.35 |
| 976 | 1693.97 | 131.32 |
| 977 | 1695.85 | 131.25 |
| 978 | 1697.72 | 131.12 |
| 979 | 1699.60 | 130.98 |
| 980 | 1701.48 | 130.91 |
| 981 | 1703.36 | 130.89 |
| 982 | 1705.24 | 130.88 |
| 983 | 1707.11 | 130.82 |
| 984 | 1708.99 | 130.74 |
| 985 | 1710.87 | 130.65 |
| 986 | 1712.75 | 130.59 |
| 987 | 1714.63 | 130.56 |
| 988 | 1716.50 | 130.54 |
| 989 | 1718.38 | 130.51 |
| 990 | 1720.26 | 130.51 |
| 991 | 1722.14 | 130.49 |
| 992 | 1724.02 | 130.45 |
| 993 | 1725.43 | 130.43 |
| 994 | 1726.85 | 130.38 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 995 | 1728.27 | 130.34 |
| 996 | 1729.69 | 130.30 |
| 997 | 1731.11 | 130.31 |
| 998 | 1732.53 | 130.34 |
| 999 | 1733.95 | 130.35 |
| 1000 | 1735.37 | 130.37 |
| 1001 | 1736.79 | 130.41 |
| 1002 | 1738.21 | 130.46 |
| 1003 | 1739.63 | 130.53 |
| 1004 | 1741.05 | 130.57 |
| 1005 | 1742.47 | 130.39 |
| 1006 | 1743.88 | 130.25 |
| 1007 | 1745.30 | 130.18 |
| 1008 | 1746.72 | 130.10 |
| 1009 | 1748.14 | 130.09 |
| 1010 | 1749.56 | 130.06 |
| 1011 | 1750.98 | 130.01 |
| 1012 | 1752.40 | 129.98 |
| 1013 | 1753.82 | 129.96 |
| 1014 | 1755.24 | 129.97 |
| 1015 | 1756.66 | 130.02 |
| 1016 | 1758.08 | 130.09 |
| 1017 | 1759.50 | 130.14 |
| 1018 | 1760.92 | 130.22 |
| 1019 | 1762.33 | 130.29 |
| 1020 | 1763.75 | 130.16 |
| 1021 | 1765.17 | 130.04 |
| 1022 | 1766.59 | 129.95 |
| 1023 | 1768.01 | 129.87 |
| 1024 | 1769.43 | 129.75 |
| 1025 | 1770.85 | 129.64 |
| 1026 | 1772.27 | 129.48 |
| 1027 | 1773.69 | 129.38 |
| 1028 | 1775.11 | 129.41 |
| 1029 | 1776.53 | 129.43 |
| 1030 | 1777.95 | 129.41 |
| 1031 | 1779.36 | 129.35 |
| 1032 | 1780.78 | 129.26 |
| 1033 | 1782.20 | 129.31 |
| 1034 | 1783.62 | 129.49 |
| 1035 | 1785.04 | 129.63 |
| 1036 | 1786.46 | 129.71 |
| 1037 | 1787.88 | 129.68 |
| 1038 | 1789.30 | 129.64 |
| 1039 | 1790.72 | 129.63 |
| 1040 | 1792.14 | 129.61 |
| 1041 | 1793.56 | 129.60 |
| 1042 | 1794.98 | 129.58 |
| 1043 | 1796.40 | 129.51 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1044 | 1797.81 | 129.40 |
| 1045 | 1799.23 | 129.14 |
| 1046 | 1800.65 | 128.96 |
| 1047 | 1802.07 | 128.96 |
| 1048 | 1803.49 | 128.95 |
| 1049 | 1804.91 | 128.91 |
| 1050 | 1806.33 | 128.90 |
| 1051 | 1807.75 | 128.91 |
| 1052 | 1809.17 | 128.96 |
| 1053 | 1810.59 | 129.03 |
| 1054 | 1812.01 | 129.06 |
| 1055 | 1813.43 | 129.10 |
| 1056 | 1814.85 | 129.14 |
| 1057 | 1816.34 | 129.17 |
| 1058 | 1817.83 | 129.12 |
| 1059 | 1819.32 | 129.10 |
| 1060 | 1820.82 | 129.08 |
| 1061 | 1822.31 | 129.01 |
| 1062 | 1823.80 | 128.82 |
| 1063 | 1825.29 | 128.61 |
| 1064 | 1826.79 | 128.45 |
| 1065 | 1828.28 | 128.34 |
| 1066 | 1829.77 | 128.33 |
| 1067 | 1831.26 | 128.34 |
| 1068 | 1832.76 | 128.22 |
| 1069 | 1834.25 | 128.10 |
| 1070 | 1835.74 | 128.11 |
| 1071 | 1837.24 | 128.14 |
| 1072 | 1838.73 | 128.22 |
| 1073 | 1840.22 | 128.35 |
| 1074 | 1841.71 | 128.39 |
| 1075 | 1843.21 | 128.35 |
| 1076 | 1844.70 | 128.33 |
| 1077 | 1846.19 | 128.34 |
| 1078 | 1847.68 | 128.38 |
| 1079 | 1849.18 | 128.34 |
| 1080 | 1850.67 | 128.24 |
| 1081 | 1852.16 | 128.21 |
| 1082 | 1853.66 | 128.04 |
| 1083 | 1855.15 | 127.87 |
| 1084 | 1856.64 | 127.78 |
| 1085 | 1858.13 | 127.69 |
| 1086 | 1859.63 | 127.63 |
| 1087 | 1861.12 | 127.56 |
| 1088 | 1862.61 | 127.56 |
| 1089 | 1864.10 | 127.56 |
| 1090 | 1865.60 | 127.61 |
| 1091 | 1867.09 | 127.66 |
| 1092 | 1868.58 | 127.62 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1093 | 1870.07 | 127.58 |
| 1094 | 1871.57 | 127.59 |
| 1095 | 1873.06 | 127.59 |
| 1096 | 1874.55 | 127.54 |
| 1097 | 1876.05 | 127.53 |
| 1098 | 1877.54 | 127.54 |
| 1099 | 1879.03 | 127.53 |
| 1100 | 1880.52 | 127.47 |
| 1101 | 1882.02 | 127.35 |
| 1102 | 1883.51 | 127.24 |
| 1103 | 1885.00 | 127.13 |
| 1104 | 1886.49 | 127.06 |
| 1105 | 1887.99 | 127.03 |
| 1106 | 1889.48 | 126.99 |
| 1107 | 1890.97 | 126.95 |
| 1108 | 1892.47 | 126.90 |
| 1109 | 1893.96 | 126.82 |
| 1110 | 1895.45 | 126.90 |
| 1111 | 1896.94 | 127.00 |
| 1112 | 1898.44 | 127.17 |
| 1113 | 1899.93 | 127.35 |
| 1114 | 1901.42 | 127.36 |
| 1115 | 1902.91 | 127.38 |
| 1116 | 1904.41 | 127.31 |
| 1117 | 1905.90 | 127.25 |
| 1118 | 1907.39 | 127.15 |
| 1119 | 1908.88 | 127.06 |
| 1120 | 1910.38 | 127.03 |
| 1121 | 1912.75 | 126.80 |
| 1122 | 1915.13 | 126.60 |
| 1123 | 1917.51 | 126.53 |
| 1124 | 1919.89 | 126.51 |
| 1125 | 1922.27 | 126.74 |
| 1126 | 1924.64 | 126.91 |
| 1127 | 1927.02 | 126.96 |
| 1128 | 1929.40 | 126.86 |
| 1129 | 1931.84 | 126.66 |
| 1130 | 1934.28 | 126.37 |
| 1131 | 1936.72 | 125.90 |
| 1132 | 1939.16 | 125.84 |
| 1133 | 1941.60 | 125.86 |
| 1134 | 1944.04 | 125.73 |
| 1135 | 1946.48 | 125.80 |
| 1136 | 1948.92 | 125.82 |
| 1137 | 1951.36 | 125.75 |
| 1138 | 1953.80 | 125.63 |
| 1139 | 1956.24 | 125.53 |
| 1140 | 1958.68 | 125.34 |
| 1141 | 1961.12 | 125.17 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1142 | 1963.56 | 125.10 |
| 1143 | 1966.00 | 125.03 |
| 1144 | 1968.44 | 125.02 |
| 1145 | 1970.88 | 125.14 |
| 1146 | 1973.32 | 125.29 |
| 1147 | 1975.76 | 125.39 |
| 1148 | 1978.20 | 125.41 |
| 1149 | 1980.64 | 125.22 |
| 1150 | 1983.08 | 125.03 |
| 1151 | 1985.53 | 124.93 |
| 1152 | 1987.97 | 124.85 |
| 1153 | 1990.41 | 124.83 |
| 1154 | 1992.85 | 124.78 |
| 1155 | 1995.29 | 124.86 |
| 1156 | 1997.73 | 124.95 |
| 1157 | 2000.17 | 125.02 |
| 1158 | 2002.61 | 124.92 |
| 1159 | 2005.05 | 124.98 |
| 1160 | 2007.49 | 124.88 |
| 1161 | 2009.01 | 124.75 |
| 1162 | 2010.54 | 124.63 |
| 1163 | 2012.06 | 124.61 |
| 1164 | 2013.58 | 124.59 |
| 1165 | 2015.11 | 124.55 |
| 1166 | 2016.63 | 124.56 |
| 1167 | 2018.16 | 124.59 |
| 1168 | 2019.68 | 124.63 |
| 1169 | 2021.20 | 124.67 |
| 1170 | 2022.73 | 124.71 |
| 1171 | 2024.25 | 124.87 |
| 1172 | 2025.77 | 125.01 |
| 1173 | 2027.30 | 125.03 |
| 1174 | 2028.82 | 125.04 |
| 1175 | 2030.35 | 125.05 |
| 1176 | 2031.87 | 124.88 |
| 1177 | 2033.39 | 124.76 |
| 1178 | 2034.92 | 124.76 |
| 1179 | 2036.44 | 124.77 |
| 1180 | 2037.97 | 124.78 |
| 1181 | 2039.49 | 124.77 |
| 1182 | 2041.01 | 124.81 |
| 1183 | 2042.54 | 124.92 |
| 1184 | 2044.06 | 124.98 |
| 1185 | 2045.59 | 125.04 |
| 1186 | 2047.11 | 125.09 |
| 1187 | 2048.63 | 125.13 |
| 1188 | 2050.16 | 125.16 |
| 1189 | 2051.68 | 125.11 |
| 1190 | 2053.21 | 125.05 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1191 | 2054.73 | 124.95 |
| 1192 | 2056.25 | 124.89 |
| 1193 | 2057.78 | 124.85 |
| 1194 | 2059.30 | 124.83 |
| 1195 | 2060.82 | 124.82 |
| 1196 | 2062.35 | 124.79 |
| 1197 | 2063.87 | 124.80 |
| 1198 | 2065.40 | 124.85 |
| 1199 | 2066.92 | 125.03 |
| 1200 | 2068.44 | 125.13 |
| 1201 | 2069.97 | 125.02 |
| 1202 | 2071.49 | 124.96 |
| 1203 | 2073.02 | 124.92 |
| 1204 | 2074.54 | 124.94 |
| 1205 | 2076.06 | 124.99 |
| 1206 | 2077.59 | 125.10 |
| 1207 | 2079.11 | 125.09 |
| 1208 | 2080.64 | 125.04 |
| 1209 | 2082.16 | 124.90 |
| 1210 | 2083.68 | 124.82 |
| 1211 | 2085.21 | 124.81 |
| 1212 | 2086.73 | 124.84 |
| 1213 | 2088.26 | 124.88 |
| 1214 | 2089.78 | 124.94 |
| 1215 | 2091.30 | 125.07 |
| 1216 | 2092.83 | 125.26 |
| 1217 | 2094.35 | 125.51 |
| 1218 | 2095.87 | 125.84 |
| 1219 | 2097.40 | 126.33 |
| 1220 | 2098.92 | 126.76 |
| 1221 | 2100.45 | 127.17 |
| 1222 | 2101.97 | 127.40 |
| 1223 | 2103.49 | 127.48 |
| 1224 | 2105.02 | 127.16 |
| 1225 | 2107.24 | 127.48 |
| 1226 | 2109.47 | 126.88 |

Comment:

## Weir Cross Section: X-0740W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 123.91 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 1 | 2.03 | 123.96 |
| 2 | 4.07 | 123.98 |
| 3 | 6.10 | 124.01 |
| 4 | 8.13 | 124.04 |
| 5 | 10.17 | 124.04 |
| 6 | 12.20 | 123.96 |
| 7 | 14.23 | 123.82 |
| 8 | 16.27 | 123.71 |
| 9 | 18.30 | 123.60 |
| 10 | 20.33 | 123.42 |
| 11 | 22.37 | 123.24 |
| 12 | 24.40 | 123.03 |
| 13 | 26.43 | 122.85 |
| 14 | 28.47 | 122.69 |
| 15 | 30.50 | 122.53 |
| 16 | 32.53 | 122.41 |
| 17 | 34.57 | 122.32 |
| 18 | 36.60 | 122.24 |
| 19 | 38.64 | 122.16 |
| 20 | 40.67 | 122.07 |
| 21 | 42.70 | 121.99 |
| 22 | 44.74 | 121.94 |
| 23 | 46.77 | 121.85 |
| 24 | 48.80 | 121.78 |
| 25 | 50.84 | 121.73 |
| 26 | 52.87 | 121.69 |
| 27 | 54.90 | 121.66 |
| 28 | 56.94 | 121.63 |
| 29 | 58.97 | 121.60 |
| 30 | 61.00 | 121.57 |
| 31 | 63.04 | 121.54 |
| 32 | 65.07 | 121.52 |
| 33 | 67.10 | 121.49 |
| 34 | 69.14 | 121.45 |
| 35 | 71.17 | 121.41 |
| 36 | 73.20 | 121.40 |
| 37 | 75.24 | 121.41 |
| 38 | 77.27 | 121.40 |
| 39 | 79.30 | 121.42 |
| 40 | 81.34 | 121.42 |
| 41 | 83.37 | 121.41 |
| 42 | 85.40 | 121.39 |
| 43 | 87.44 | 121.40 |
| 44 | 89.47 | 121.39 |
| 45 | 91.50 | 121.39 |
| 46 | 93.54 | 121.40 |
| 47 | 95.57 | 121.41 |
| 48 | 97.60 | 121.42 |
| 49 | 99.64 | 121.47 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 50 | 101.67 | 121.48 |
| 51 | 103.70 | 121.47 |
| 52 | 105.74 | 121.49 |
| 53 | 107.77 | 121.51 |
| 54 | 109.80 | 121.53 |
| 55 | 111.84 | 121.55 |
| 56 | 113.87 | 121.55 |
| 57 | 115.91 | 121.55 |
| 58 | 117.94 | 121.54 |
| 59 | 119.97 | 121.52 |
| 60 | 122.01 | 121.57 |
| 61 | 124.04 | 121.61 |
| 62 | 126.07 | 121.61 |
| 63 | 128.11 | 121.60 |
| 64 | 130.14 | 121.60 |

Comment:

## Weir Cross Section: X-0760W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 126.28 |
| 1 | 1.25 | 126.27 |
| 2 | 2.51 | 126.24 |
| 3 | 3.76 | 126.19 |
| 4 | 5.01 | 126.13 |
| 5 | 6.27 | 126.02 |
| 6 | 7.52 | 125.92 |
| 7 | 8.77 | 125.76 |
| 8 | 10.03 | 125.55 |
| 9 | 11.28 | 125.45 |
| 10 | 12.53 | 125.38 |
| 11 | 13.79 | 125.36 |
| 12 | 15.04 | 125.38 |
| 13 | 16.29 | 125.35 |
| 14 | 17.55 | 125.30 |
| 15 | 18.80 | 125.24 |
| 16 | 20.05 | 125.17 |
| 17 | 21.31 | 125.11 |
| 18 | 22.56 | 125.05 |
| 19 | 23.81 | 124.99 |
| 20 | 25.07 | 124.93 |
| 21 | 26.32 | 124.87 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 22 | 27.57 | 124.83 |
| 23 | 28.83 | 124.78 |
| 24 | 30.08 | 124.71 |
| 25 | 31.33 | 124.67 |
| 26 | 32.59 | 124.65 |
| 27 | 33.84 | 124.58 |
| 28 | 35.09 | 124.47 |
| 29 | 36.34 | 124.42 |
| 30 | 37.60 | 124.40 |
| 31 | 38.85 | 124.42 |
| 32 | 40.10 | 124.44 |
| 33 | 41.36 | 124.45 |
| 34 | 42.61 | 124.44 |
| 35 | 43.86 | 124.40 |
| 36 | 45.12 | 124.34 |
| 37 | 46.37 | 124.32 |
| 38 | 47.62 | 124.32 |
| 39 | 48.88 | 124.23 |
| 40 | 50.13 | 124.05 |
| 41 | 51.38 | 123.90 |
| 42 | 52.64 | 123.79 |
| 43 | 53.89 | 123.72 |
| 44 | 55.14 | 123.67 |
| 45 | 56.40 | 123.63 |
| 46 | 57.65 | 123.60 |
| 47 | 58.90 | 123.58 |
| 48 | 60.16 | 123.56 |
| 49 | 61.41 | 123.59 |
| 50 | 62.66 | 123.66 |
| 51 | 63.92 | 123.69 |
| 52 | 65.17 | 123.67 |
| 53 | 66.42 | 123.64 |
| 54 | 67.68 | 123.61 |
| 55 | 68.93 | 123.56 |
| 56 | 70.18 | 123.47 |
| 57 | 71.44 | 123.44 |
| 58 | 72.69 | 123.45 |
| 59 | 73.94 | 123.49 |
| 60 | 75.20 | 123.59 |
| 61 | 76.45 | 123.62 |
| 62 | 77.70 | 123.56 |
| 63 | 78.96 | 123.48 |
| 64 | 80.21 | 123.38 |
| 65 | 82.15 | 123.34 |
| 66 | 84.10 | 123.41 |
| 67 | 86.04 | 123.46 |
| 68 | 87.99 | 123.37 |
| 69 | 89.93 | 123.07 |
| 70 | 91.87 | 122.94 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 71 | 93.82 | 122.89 |
| 72 | 95.76 | 122.88 |
| 73 | 97.71 | 122.89 |
| 74 | 99.65 | 123.03 |
| 75 | 101.59 | 123.02 |
| 76 | 103.54 | 122.87 |
| 77 | 105.48 | 122.67 |
| 78 | 107.43 | 122.89 |
| 79 | 109.37 | 123.13 |
| 80 | 111.32 | 123.26 |
| 81 | 112.73 | 123.27 |
| 82 | 114.14 | 123.28 |
| 83 | 115.55 | 123.22 |
| 84 | 116.97 | 123.14 |
| 85 | 118.38 | 123.01 |
| 86 | 119.79 | 122.92 |
| 87 | 121.20 | 122.91 |
| 88 | 122.62 | 122.84 |
| 89 | 124.03 | 122.73 |
| 90 | 125.44 | 122.63 |
| 91 | 126.85 | 122.53 |
| 92 | 128.27 | 122.41 |
| 93 | 129.68 | 122.28 |
| 94 | 131.09 | 122.17 |
| 95 | 132.50 | 122.08 |
| 96 | 133.92 | 122.02 |
| 97 | 135.33 | 121.98 |
| 98 | 136.74 | 121.97 |
| 99 | 138.15 | 121.97 |
| 100 | 139.57 | 121.97 |
| 101 | 140.98 | 121.98 |
| 102 | 142.39 | 121.99 |
| 103 | 143.80 | 122.00 |
| 104 | 145.22 | 122.01 |
| 105 | 146.63 | 122.04 |
| 106 | 148.04 | 122.05 |
| 107 | 149.45 | 122.05 |
| 108 | 150.87 | 122.04 |
| 109 | 152.28 | 122.04 |
| 110 | 153.69 | 122.03 |
| 111 | 155.11 | 122.02 |
| 112 | 156.52 | 122.03 |
| 113 | 157.93 | 122.04 |
| 114 | 159.34 | 122.05 |
| 115 | 160.76 | 122.08 |
| 116 | 162.17 | 122.12 |
| 117 | 163.58 | 122.15 |
| 118 | 164.99 | 122.18 |
| 119 | 166.41 | 122.21 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 120 | 167.82 | 122.27 |
| 121 | 169.23 | 122.35 |
| 122 | 170.64 | 122.42 |
| 123 | 172.06 | 122.45 |
| 124 | 173.47 | 122.50 |
| 125 | 174.88 | 122.54 |
| 126 | 176.29 | 122.60 |
| 127 | 177.71 | 122.63 |
| 128 | 179.12 | 122.59 |
| 129 | 180.53 | 122.59 |
| 130 | 181.94 | 122.66 |
| 131 | 183.36 | 122.70 |
| 132 | 184.77 | 122.73 |
| 133 | 186.18 | 122.77 |
| 134 | 187.59 | 122.80 |
| 135 | 189.01 | 122.83 |
| 136 | 190.42 | 122.86 |
| 137 | 191.83 | 122.89 |
| 138 | 193.24 | 122.92 |
| 139 | 194.66 | 122.96 |
| 140 | 196.07 | 122.99 |
| 141 | 197.48 | 123.00 |
| 142 | 198.90 | 123.04 |
| 143 | 200.31 | 123.07 |
| 144 | 201.72 | 123.09 |

Comment:

## Weir Cross Section: X-0820W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 119.40 |
| 1 | 1.58 | 119.53 |
| 2 | 3.16 | 119.62 |
| 3 | 4.74 | 119.56 |
| 4 | 6.32 | 119.48 |
| 5 | 7.90 | 119.41 |
| 6 | 9.48 | 119.43 |
| 7 | 11.06 | 119.48 |
| 8 | 12.64 | 119.45 |
| 9 | 14.22 | 119.43 |
| 10 | 15.80 | 119.42 |
| 11 | 17.38 | 119.35 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 12 | 18.96 | 119.28 |
| 13 | 20.54 | 119.21 |
| 14 | 22.12 | 119.18 |
| 15 | 23.70 | 119.15 |
| 16 | 25.28 | 119.07 |
| 17 | 26.85 | 118.99 |
| 18 | 28.43 | 118.91 |
| 19 | 30.01 | 118.86 |
| 20 | 31.59 | 118.83 |
| 21 | 33.17 | 118.82 |
| 22 | 34.75 | 118.83 |
| 23 | 36.33 | 118.85 |
| 24 | 37.91 | 118.94 |
| 25 | 39.49 | 119.01 |
| 26 | 41.07 | 119.08 |
| 27 | 42.65 | 119.18 |
| 28 | 44.23 | 119.20 |
| 29 | 45.81 | 119.12 |
| 30 | 47.39 | 119.10 |
| 31 | 48.97 | 119.11 |
| 32 | 50.55 | 119.17 |
| 33 | 52.13 | 119.12 |
| 34 | 53.71 | 119.03 |
| 35 | 55.29 | 119.00 |
| 36 | 56.87 | 119.01 |
| 37 | 58.45 | 119.06 |
| 38 | 60.03 | 119.05 |
| 39 | 61.61 | 119.04 |
| 40 | 63.19 | 119.03 |
| 41 | 64.77 | 119.04 |
| 42 | 66.35 | 119.09 |
| 43 | 67.93 | 119.33 |
| 44 | 69.51 | 119.58 |
| 45 | 71.09 | 119.79 |
| 46 | 72.67 | 119.79 |
| 47 | 74.25 | 119.76 |
| 48 | 75.83 | 119.71 |
| 49 | 77.41 | 119.66 |
| 50 | 78.99 | 119.61 |
| 51 | 80.56 | 119.59 |
| 52 | 82.14 | 119.68 |
| 53 | 83.72 | 119.85 |
| 54 | 85.30 | 119.99 |
| 55 | 86.88 | 120.10 |
| 56 | 88.46 | 120.18 |
| 57 | 90.04 | 120.16 |
| 58 | 91.62 | 120.15 |
| 59 | 93.20 | 120.25 |
| 60 | 94.78 | 120.42 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 61 | 96.36 | 120.65 |
| 62 | 97.94 | 120.54 |
| 63 | 99.52 | 120.43 |
| 64 | 101.10 | 120.31 |
| 65 | 102.37 | 120.25 |
| 66 | 103.63 | 120.21 |
| 67 | 104.90 | 120.25 |
| 68 | 106.16 | 120.29 |
| 69 | 107.43 | 120.27 |
| 70 | 108.70 | 120.24 |
| 71 | 109.96 | 120.16 |
| 72 | 111.23 | 120.07 |
| 73 | 112.50 | 120.06 |
| 74 | 113.76 | 120.06 |
| 75 | 115.03 | 120.07 |
| 76 | 116.29 | 120.07 |
| 77 | 117.56 | 119.93 |
| 78 | 118.83 | 119.78 |
| 79 | 120.09 | 119.68 |
| 80 | 121.36 | 119.58 |
| 81 | 122.62 | 119.58 |
| 82 | 123.89 | 119.59 |
| 83 | 125.16 | 119.65 |
| 84 | 126.42 | 119.70 |
| 85 | 127.69 | 119.63 |
| 86 | 128.95 | 119.58 |
| 87 | 130.22 | 119.63 |
| 88 | 131.49 | 119.68 |
| 89 | 132.75 | 119.72 |
| 90 | 134.02 | 119.75 |
| 91 | 135.28 | 119.78 |
| 92 | 136.55 | 119.79 |
| 93 | 137.82 | 119.67 |
| 94 | 139.08 | 119.54 |
| 95 | 140.35 | 119.36 |
| 96 | 141.61 | 119.22 |
| 97 | 142.88 | 119.18 |
| 98 | 144.15 | 119.11 |
| 99 | 145.41 | 118.94 |
| 100 | 146.68 | 118.87 |
| 101 | 147.94 | 119.04 |
| 102 | 149.21 | 119.18 |
| 103 | 150.48 | 119.22 |
| 104 | 151.74 | 119.23 |
| 105 | 153.01 | 119.17 |
| 106 | 154.27 | 119.11 |
| 107 | 155.54 | 119.01 |
| 108 | 156.81 | 118.91 |
| 109 | 158.07 | 118.81 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 110 | 159.34 | 118.66 |
| 111 | 160.60 | 118.45 |
| 112 | 161.87 | 118.29 |
| 113 | 163.14 | 118.19 |
| 114 | 164.40 | 118.12 |
| 115 | 165.67 | 118.06 |
| 116 | 166.93 | 117.98 |
| 117 | 168.20 | 117.88 |
| 118 | 169.47 | 117.75 |
| 119 | 170.73 | 117.61 |
| 120 | 172.00 | 117.51 |
| 121 | 173.26 | 117.44 |
| 122 | 174.53 | 117.41 |
| 123 | 175.80 | 117.40 |
| 124 | 177.06 | 117.40 |
| 125 | 178.33 | 117.41 |
| 126 | 179.59 | 117.49 |
| 127 | 180.86 | 117.62 |
| 128 | 182.13 | 117.68 |
| 129 | 183.39 | 117.71 |
| 130 | 184.66 | 117.66 |
| 131 | 185.92 | 117.56 |
| 132 | 187.19 | 117.44 |
| 133 | 188.46 | 117.31 |
| 134 | 189.72 | 117.20 |
| 135 | 190.99 | 117.10 |
| 136 | 192.26 | 117.03 |
| 137 | 193.52 | 116.97 |
| 138 | 194.79 | 116.93 |
| 139 | 196.05 | 116.90 |
| 140 | 197.32 | 116.90 |
| 141 | 198.59 | 116.91 |
| 142 | 199.85 | 116.82 |
| 143 | 201.12 | 116.69 |
| 144 | 202.38 | 116.52 |
| 145 | 203.65 | 116.35 |
| 146 | 204.92 | 116.18 |
| 147 | 206.18 | 116.01 |
| 148 | 207.45 | 115.83 |
| 149 | 208.71 | 115.64 |
| 150 | 209.98 | 115.45 |
| 151 | 211.25 | 115.25 |
| 152 | 212.51 | 115.11 |
| 153 | 213.78 | 114.97 |
| 154 | 215.04 | 114.94 |
| 155 | 216.31 | 114.92 |
| 156 | 217.58 | 115.03 |
| 157 | 218.84 | 115.15 |
| 158 | 220.11 | 115.34 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 159 | 221.37 | 115.54 |
| 160 | 222.64 | 115.79 |
| 161 | 223.91 | 116.04 |
| 162 | 225.17 | 116.24 |
| 163 | 226.44 | 116.44 |
| 164 | 227.70 | 116.61 |
| 165 | 228.97 | 116.78 |
| 166 | 230.24 | 116.93 |
| 167 | 231.50 | 117.08 |
| 168 | 232.77 | 117.18 |
| 169 | 234.03 | 117.28 |
| 170 | 235.30 | 117.42 |
| 171 | 236.57 | 117.55 |
| 172 | 237.83 | 117.64 |
| 173 | 239.10 | 117.72 |
| 174 | 240.36 | 117.74 |
| 175 | 241.63 | 117.76 |
| 176 | 242.90 | 117.78 |
| 177 | 244.16 | 117.81 |
| 178 | 245.43 | 117.86 |
| 179 | 246.69 | 117.91 |
| 180 | 247.96 | 117.94 |
| 181 | 249.23 | 117.96 |
| 182 | 250.49 | 117.99 |
| 183 | 251.76 | 118.01 |
| 184 | 253.02 | 118.01 |
| 185 | 254.29 | 118.03 |
| 186 | 255.56 | 118.05 |
| 187 | 256.82 | 118.09 |
| 188 | 258.09 | 118.15 |
| 189 | 259.35 | 118.18 |
| 190 | 260.62 | 118.19 |
| 191 | 261.89 | 118.20 |
| 192 | 263.15 | 118.21 |

Comment:

## Weir Cross Section: X-0850W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 115.79 |
| 1 | 2.37 | 115.83 |
| 2 | 4.74 | 115.83 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 3 | 7.11 | 115.81 |
| 4 | 9.47 | 115.77 |
| 5 | 11.84 | 115.72 |
| 6 | 14.21 | 115.64 |
| 7 | 16.58 | 115.57 |
| 8 | 18.95 | 115.49 |
| 9 | 21.32 | 115.38 |
| 10 | 23.69 | 115.26 |
| 11 | 26.06 | 115.10 |
| 12 | 28.42 | 114.93 |
| 13 | 30.79 | 114.67 |
| 14 | 33.16 | 114.49 |
| 15 | 35.53 | 114.44 |
| 16 | 37.90 | 114.45 |
| 17 | 40.27 | 114.42 |
| 18 | 42.64 | 114.32 |
| 19 | 45.00 | 114.22 |
| 20 | 47.37 | 114.10 |
| 21 | 49.74 | 114.00 |
| 22 | 52.11 | 114.01 |
| 23 | 54.48 | 114.12 |
| 24 | 56.85 | 114.24 |
| 25 | 59.22 | 114.27 |
| 26 | 61.58 | 114.35 |
| 27 | 63.95 | 114.42 |
| 28 | 66.32 | 114.57 |
| 29 | 68.69 | 114.73 |
| 30 | 71.06 | 114.84 |
| 31 | 73.43 | 114.93 |
| 32 | 75.80 | 115.07 |
| 33 | 78.17 | 115.19 |
| 34 | 80.53 | 115.25 |
| 35 | 82.90 | 115.30 |
| 36 | 85.27 | 115.39 |
| 37 | 87.64 | 115.50 |
| 38 | 90.01 | 115.64 |
| 39 | 92.38 | 115.86 |
| 40 | 94.75 | 116.07 |
| 41 | 97.11 | 116.04 |
| 42 | 99.48 | 116.03 |
| 43 | 101.85 | 116.00 |
| 44 | 104.22 | 115.94 |
| 45 | 106.59 | 116.03 |
| 46 | 108.96 | 116.03 |
| 47 | 111.33 | 116.05 |
| 48 | 113.69 | 116.08 |
| 49 | 116.06 | 116.11 |
| 50 | 118.43 | 116.17 |
| 51 | 120.80 | 116.20 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 52 | 123.17 | 116.26 |
| 53 | 125.54 | 116.33 |
| 54 | 127.91 | 116.40 |
| 55 | 130.28 | 116.49 |
| 56 | 132.64 | 116.60 |
| 57 | 135.01 | 116.69 |
| 58 | 137.38 | 116.78 |
| 59 | 139.75 | 116.88 |
| 60 | 142.12 | 116.95 |
| 61 | 144.49 | 117.01 |
| 62 | 146.86 | 117.10 |
| 63 | 149.22 | 117.20 |
| 64 | 151.59 | 117.27 |

Comment:

## Weir Cross Section: X-0930W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 100.75 |
| 1 | 1.94 | 100.79 |
| 2 | 3.89 | 100.84 |
| 3 | 5.83 | 100.86 |
| 4 | 7.77 | 100.88 |
| 5 | 9.72 | 100.88 |
| 6 | 11.66 | 100.83 |
| 7 | 13.60 | 100.74 |
| 8 | 15.54 | 100.66 |
| 9 | 17.49 | 100.51 |
| 10 | 19.43 | 100.35 |
| 11 | 21.37 | 100.13 |
| 12 | 23.32 | 99.83 |
| 13 | 25.26 | 99.54 |
| 14 | 27.20 | 99.29 |
| 15 | 29.15 | 99.14 |
| 16 | 31.09 | 99.12 |
| 17 | 33.03 | 99.20 |
| 18 | 34.98 | 99.31 |
| 19 | 36.92 | 99.49 |
| 20 | 38.86 | 99.72 |
| 21 | 40.81 | 99.96 |
| 22 | 42.75 | 100.22 |
| 23 | 44.69 | 100.49 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 24 | 46.63 | 100.82 |
| 25 | 48.58 | 101.17 |
| 26 | 50.52 | 101.50 |
| 27 | 52.46 | 101.78 |
| 28 | 54.41 | 102.07 |
| 29 | 56.35 | 102.34 |
| 30 | 58.29 | 102.61 |
| 31 | 60.24 | 102.88 |
| 32 | 62.18 | 103.18 |
| 33 | 64.12 | 103.46 |
| 34 | 66.07 | 103.70 |
| 35 | 68.01 | 103.95 |
| 36 | 69.95 | 104.23 |
| 37 | 71.90 | 104.56 |
| 38 | 73.84 | 104.96 |
| 39 | 75.78 | 105.41 |
| 40 | 77.72 | 105.89 |
| 41 | 79.67 | 106.38 |
| 42 | 81.61 | 106.86 |
| 43 | 83.55 | 107.33 |
| 44 | 85.50 | 107.83 |
| 45 | 87.44 | 108.52 |
| 46 | 89.38 | 109.25 |
| 47 | 91.33 | 109.89 |
| 48 | 93.27 | 110.31 |
| 49 | 95.21 | 110.58 |
| 50 | 97.16 | 110.86 |
| 51 | 99.10 | 111.21 |
| 52 | 101.04 | 111.60 |
| 53 | 102.99 | 111.93 |
| 54 | 104.93 | 112.22 |
| 55 | 106.87 | 112.61 |
| 56 | 108.81 | 113.03 |
| 57 | 110.76 | 113.43 |
| 58 | 112.70 | 114.05 |
| 59 | 114.64 | 114.77 |
| 60 | 116.59 | 115.49 |
| 61 | 118.53 | 116.20 |
| 62 | 120.47 | 116.92 |
| 63 | 122.42 | 117.63 |
| 64 | 124.36 | 118.27 |
| 65 | 125.67 | 118.65 |
| 66 | 126.99 | 118.59 |
| 67 | 128.30 | 118.53 |
| 68 | 129.61 | 118.41 |
| 69 | 130.93 | 118.22 |
| 70 | 132.24 | 117.85 |
| 71 | 133.55 | 117.51 |
| 72 | 134.87 | 117.22 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 73 | 136.18 | 117.04 |
| 74 | 137.49 | 116.98 |
| 75 | 138.81 | 116.91 |
| 76 | 140.12 | 116.82 |
| 77 | 141.44 | 116.77 |
| 78 | 142.75 | 116.74 |
| 79 | 144.06 | 116.71 |
| 80 | 145.38 | 116.69 |

Comment:

## Weir Cross Section: X-0970W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 51.46 |
| 1 | 1.66 | 51.44 |
| 2 | 3.32 | 51.42 |
| 3 | 4.97 | 51.36 |
| 4 | 6.63 | 51.29 |
| 5 | 8.29 | 51.25 |
| 6 | 9.95 | 51.17 |
| 7 | 11.61 | 51.06 |
| 8 | 13.27 | 50.89 |
| 9 | 14.92 | 50.83 |
| 10 | 16.58 | 50.80 |
| 11 | 18.24 | 50.66 |
| 12 | 19.90 | 50.54 |
| 13 | 21.56 | 50.42 |
| 14 | 23.21 | 50.31 |
| 15 | 24.87 | 50.22 |
| 16 | 26.53 | 50.13 |
| 17 | 28.19 | 50.03 |
| 18 | 29.85 | 49.94 |
| 19 | 31.50 | 49.87 |
| 20 | 33.16 | 49.82 |
| 21 | 34.82 | 49.76 |
| 22 | 36.48 | 49.68 |
| 23 | 38.14 | 49.67 |
| 24 | 39.80 | 49.64 |
| 25 | 41.45 | 49.60 |
| 26 | 43.11 | 49.53 |
| 27 | 44.77 | 49.46 |
| 28 | 46.43 | 49.38 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 29 | 48.09 | 49.32 |
| 30 | 49.74 | 49.27 |
| 31 | 51.40 | 49.23 |
| 32 | 53.06 | 49.16 |

Comment:

## Weir Cross Section: X-0990W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 47.54 |
| 1 | 1.65 | 47.58 |
| 2 | 3.30 | 47.62 |
| 3 | 4.95 | 47.61 |
| 4 | 6.60 | 47.59 |
| 5 | 8.58 | 47.62 |
| 6 | 10.56 | 47.73 |
| 7 | 12.54 | 47.85 |
| 8 | 14.52 | 47.97 |
| 9 | 16.50 | 48.06 |
| 10 | 18.48 | 48.17 |
| 11 | 20.46 | 48.26 |
| 12 | 22.44 | 48.39 |
| 13 | 24.42 | 48.53 |
| 14 | 26.40 | 48.68 |
| 15 | 28.38 | 48.83 |
| 16 | 30.36 | 48.98 |
| 17 | 32.34 | 49.11 |
| 18 | 34.32 | 49.24 |
| 19 | 36.30 | 49.42 |
| 20 | 38.28 | 49.59 |
| 21 | 40.26 | 49.75 |
| 22 | 42.24 | 49.87 |
| 23 | 44.22 | 49.99 |
| 24 | 46.20 | 50.17 |
| 25 | 48.18 | 50.37 |
| 26 | 50.16 | 50.56 |
| 27 | 52.14 | 50.76 |
| 28 | 54.12 | 50.96 |
| 29 | 56.10 | 51.11 |
| 30 | 58.08 | 51.18 |
| 31 | 60.06 | 51.25 |
| 32 | 62.04 | 51.33 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 33 | 64.01 | 51.40 |
| 34 | 65.99 | 51.45 |
| 35 | 67.97 | 51.46 |
| 36 | 69.95 | 51.46 |

Comment:

## Weir Cross Section: X-1010W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 48.01 |
| 1 | 1.43 | 48.15 |
| 2 | 2.86 | 48.27 |
| 3 | 4.29 | 48.39 |
| 4 | 5.72 | 48.51 |
| 5 | 7.15 | 48.62 |
| 6 | 8.57 | 48.72 |
| 7 | 10.00 | 48.81 |
| 8 | 11.43 | 48.87 |
| 9 | 12.86 | 48.91 |
| 10 | 14.29 | 48.92 |
| 11 | 15.72 | 48.97 |
| 12 | 17.15 | 49.02 |
| 13 | 18.58 | 49.06 |
| 14 | 20.01 | 49.10 |
| 15 | 21.44 | 49.13 |
| 16 | 22.86 | 49.21 |
| 17 | 24.29 | 49.31 |
| 18 | 25.72 | 49.40 |
| 19 | 27.15 | 49.49 |
| 20 | 28.58 | 49.55 |
| 21 | 30.01 | 49.65 |
| 22 | 31.44 | 49.81 |
| 23 | 32.87 | 49.95 |
| 24 | 34.30 | 50.10 |
| 25 | 35.73 | 50.16 |
| 26 | 37.16 | 50.22 |
| 27 | 38.58 | 50.28 |
| 28 | 40.01 | 50.33 |
| 29 | 41.44 | 50.33 |
| 30 | 42.87 | 50.37 |
| 31 | 44.30 | 50.44 |
| 32 | 45.73 | 50.47 |

Comment:

## Weir Cross Section: X-1020W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 50.47 |
| 1 | 2.27 | 50.46 |
| 2 | 4.55 | 50.40 |
| 3 | 6.82 | 50.32 |
| 4 | 9.10 | 50.28 |
| 5 | 11.37 | 50.18 |
| 6 | 13.65 | 50.07 |
| 7 | 15.92 | 50.06 |
| 8 | 18.20 | 49.95 |
| 9 | 20.47 | 49.77 |
| 10 | 22.75 | 49.65 |
| 11 | 25.02 | 49.66 |
| 12 | 27.30 | 49.61 |
| 13 | 29.57 | 49.44 |
| 14 | 31.85 | 49.48 |
| 15 | 34.12 | 49.49 |
| 16 | 36.40 | 49.50 |

Comment:

## Weir Cross Section: X-1050W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 49.91 |
| 1 | 2.11 | 49.86 |
| 2 | 4.22 | 49.82 |
| 3 | 6.34 | 49.78 |
| 4 | 8.45 | 49.69 |
| 5 | 10.56 | 49.47 |
| 6 | 12.67 | 49.26 |
| 7 | 14.78 | 49.14 |
| 8 | 16.90 | 49.08 |
| 9 | 19.01 | 49.01 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 10 | 21.12 | 48.92 |
| 11 | 23.23 | 48.78 |
| 12 | 25.34 | 48.64 |
| 13 | 27.46 | 48.54 |
| 14 | 29.57 | 48.44 |
| 15 | 31.68 | 48.32 |
| 16 | 33.79 | 48.18 |
| 17 | 35.24 | 48.13 |
| 18 | 36.69 | 48.08 |
| 19 | 38.13 | 48.02 |
| 20 | 39.58 | 47.95 |
| 21 | 41.03 | 47.87 |
| 22 | 42.47 | 47.78 |
| 23 | 43.92 | 47.68 |
| 24 | 45.37 | 47.62 |
| 25 | 46.81 | 47.56 |
| 26 | 48.26 | 47.50 |
| 27 | 49.71 | 47.48 |
| 28 | 51.15 | 47.47 |
| 29 | 52.60 | 47.47 |
| 30 | 54.05 | 47.45 |
| 31 | 55.49 | 47.36 |
| 32 | 56.94 | 47.34 |
| 33 | 58.39 | 47.40 |
| 34 | 59.83 | 47.41 |
| 35 | 61.28 | 47.40 |
| 36 | 62.73 | 47.37 |
| 37 | 64.17 | 47.35 |
| 38 | 65.62 | 47.35 |
| 39 | 67.07 | 47.35 |
| 40 | 68.51 | 47.33 |
| 41 | 69.96 | 47.35 |
| 42 | 71.41 | 47.37 |
| 43 | 72.85 | 47.40 |
| 44 | 74.30 | 47.42 |
| 45 | 75.75 | 47.44 |
| 46 | 77.19 | 47.45 |
| 47 | 78.64 | 47.46 |
| 48 | 80.09 | 47.47 |

Comment:

## Weir Cross Section: X-1150W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 124.54 |
| 1 | 1.72 | 124.53 |
| 2 | 3.44 | 124.53 |
| 3 | 5.16 | 124.51 |
| 4 | 6.88 | 124.49 |
| 5 | 8.60 | 124.49 |
| 6 | 10.32 | 124.48 |
| 7 | 12.04 | 124.48 |
| 8 | 13.76 | 124.45 |
| 9 | 15.48 | 124.45 |
| 10 | 17.20 | 124.45 |
| 11 | 18.91 | 124.44 |
| 12 | 20.63 | 124.44 |
| 13 | 22.35 | 124.44 |
| 14 | 24.07 | 124.45 |
| 15 | 25.79 | 124.44 |
| 16 | 27.51 | 124.42 |
| 17 | 29.23 | 124.39 |
| 18 | 30.95 | 124.39 |
| 19 | 32.67 | 124.38 |
| 20 | 34.39 | 124.39 |
| 21 | 36.11 | 124.41 |
| 22 | 37.83 | 124.41 |
| 23 | 39.55 | 124.40 |
| 24 | 41.27 | 124.39 |
| 25 | 42.99 | 124.38 |
| 26 | 44.71 | 124.38 |
| 27 | 46.43 | 124.37 |
| 28 | 48.15 | 124.36 |
| 29 | 49.87 | 124.34 |
| 30 | 51.59 | 124.33 |
| 31 | 53.30 | 124.32 |
| 32 | 55.02 | 124.30 |
| 33 | 56.74 | 124.28 |
| 34 | 58.46 | 124.25 |
| 35 | 60.18 | 124.23 |
| 36 | 61.90 | 124.22 |
| 37 | 63.62 | 124.20 |
| 38 | 65.34 | 124.18 |
| 39 | 67.06 | 124.15 |
| 40 | 68.78 | 124.13 |
| 41 | 70.50 | 124.11 |
| 42 | 72.22 | 124.09 |
| 43 | 73.94 | 124.07 |
| 44 | 75.66 | 124.04 |
| 45 | 77.38 | 124.01 |
| 46 | 79.10 | 124.00 |
| 47 | 80.82 | 123.99 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 48 | 82.54 | 123.97 |
| 49 | 84.26 | 123.94 |
| 50 | 85.98 | 123.93 |
| 51 | 87.70 | 123.94 |
| 52 | 89.41 | 123.93 |
| 53 | 91.13 | 123.93 |
| 54 | 92.85 | 123.93 |
| 55 | 94.57 | 123.92 |
| 56 | 96.29 | 123.92 |
| 57 | 98.01 | 123.91 |
| 58 | 99.73 | 123.90 |
| 59 | 101.45 | 123.88 |
| 60 | 103.17 | 123.89 |
| 61 | 104.89 | 123.89 |
| 62 | 106.61 | 123.89 |
| 63 | 108.33 | 123.90 |
| 64 | 110.05 | 123.90 |
| 65 | 111.36 | 123.91 |
| 66 | 112.67 | 123.90 |
| 67 | 113.98 | 123.89 |
| 68 | 115.28 | 123.88 |
| 69 | 116.59 | 123.88 |
| 70 | 117.90 | 123.89 |
| 71 | 119.21 | 123.89 |
| 72 | 120.52 | 123.88 |
| 73 | 121.83 | 123.87 |
| 74 | 123.14 | 123.86 |
| 75 | 124.45 | 123.86 |
| 76 | 125.76 | 123.85 |
| 77 | 127.06 | 123.84 |
| 78 | 128.37 | 123.83 |
| 79 | 129.68 | 123.82 |
| 80 | 130.99 | 123.79 |
| 81 | 132.30 | 123.78 |
| 82 | 133.61 | 123.77 |
| 83 | 134.92 | 123.76 |
| 84 | 136.23 | 123.76 |
| 85 | 137.54 | 123.74 |
| 86 | 138.85 | 123.72 |
| 87 | 140.15 | 123.70 |
| 88 | 141.46 | 123.68 |
| 89 | 142.77 | 123.67 |
| 90 | 144.08 | 123.66 |
| 91 | 145.39 | 123.65 |
| 92 | 146.70 | 123.64 |
| 93 | 148.01 | 123.62 |
| 94 | 149.32 | 123.61 |
| 95 | 150.63 | 123.58 |
| 96 | 151.93 | 123.55 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 97 | 153.24 | 123.53 |
| 98 | 154.55 | 123.52 |
| 99 | 155.86 | 123.50 |
| 100 | 157.17 | 123.48 |
| 101 | 158.48 | 123.46 |
| 102 | 159.79 | 123.45 |
| 103 | 161.10 | 123.47 |
| 104 | 162.41 | 123.49 |
| 105 | 163.71 | 123.50 |
| 106 | 165.02 | 123.50 |
| 107 | 166.33 | 123.47 |
| 108 | 167.64 | 123.45 |
| 109 | 168.95 | 123.42 |
| 110 | 170.26 | 123.42 |
| 111 | 171.57 | 123.43 |
| 112 | 172.88 | 123.42 |
| 113 | 174.19 | 123.41 |
| 114 | 175.50 | 123.41 |
| 115 | 176.80 | 123.41 |
| 116 | 178.11 | 123.43 |
| 117 | 179.42 | 123.44 |
| 118 | 180.73 | 123.46 |
| 119 | 182.04 | 123.47 |
| 120 | 183.35 | 123.49 |
| 121 | 184.66 | 123.50 |
| 122 | 185.97 | 123.52 |
| 123 | 187.28 | 123.53 |
| 124 | 188.58 | 123.53 |
| 125 | 189.89 | 123.55 |
| 126 | 191.20 | 123.57 |
| 127 | 192.51 | 123.58 |
| 128 | 193.82 | 123.60 |
| 129 | 196.15 | 123.61 |
| 130 | 198.47 | 123.61 |
| 131 | 200.80 | 123.61 |
| 132 | 203.13 | 123.63 |
| 133 | 205.45 | 123.61 |
| 134 | 207.78 | 123.59 |
| 135 | 210.11 | 123.59 |
| 136 | 212.43 | 123.60 |
| 137 | 214.76 | 123.60 |
| 138 | 217.09 | 123.62 |
| 139 | 219.41 | 123.64 |
| 140 | 221.74 | 123.71 |
| 141 | 224.06 | 123.78 |
| 142 | 226.39 | 123.84 |
| 143 | 228.72 | 123.87 |
| 144 | 231.04 | 123.92 |
| 145 | 233.37 | 124.02 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 146 | 235.70 | 124.11 |
| 147 | 238.02 | 124.19 |
| 148 | 240.35 | 124.29 |
| 149 | 242.68 | 124.39 |
| 150 | 245.00 | 124.47 |
| 151 | 247.33 | 124.54 |
| 152 | 249.66 | 124.61 |
| 153 | 251.98 | 124.71 |
| 154 | 254.31 | 124.80 |
| 155 | 256.64 | 124.86 |
| 156 | 258.96 | 124.91 |
| 157 | 261.29 | 124.95 |
| 158 | 263.62 | 125.02 |
| 159 | 265.94 | 125.08 |
| 160 | 268.27 | 125.12 |

Comment:

## Weir Cross Section: X-1160W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 125.22 |
| 1 | 1.97 | 125.25 |
| 2 | 3.93 | 125.28 |
| 3 | 5.90 | 125.26 |
| 4 | 7.87 | 125.19 |
| 5 | 9.84 | 125.14 |
| 6 | 11.80 | 125.17 |
| 7 | 13.77 | 125.18 |
| 8 | 15.74 | 125.17 |
| 9 | 17.71 | 125.14 |
| 10 | 19.67 | 125.10 |
| 11 | 21.64 | 125.02 |
| 12 | 23.61 | 124.89 |
| 13 | 25.58 | 124.77 |
| 14 | 27.54 | 124.69 |
| 15 | 29.51 | 124.64 |
| 16 | 31.48 | 124.57 |
| 17 | 33.09 | 124.53 |
| 18 | 34.70 | 124.49 |
| 19 | 36.31 | 124.43 |
| 20 | 37.91 | 124.37 |
| 21 | 39.52 | 124.32 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 22 | 41.13 | 124.25 |
| 23 | 42.74 | 124.18 |
| 24 | 44.35 | 124.11 |
| 25 | 45.96 | 124.04 |
| 26 | 47.57 | 123.98 |
| 27 | 49.18 | 123.95 |
| 28 | 50.79 | 123.92 |
| 29 | 52.40 | 123.90 |
| 30 | 54.01 | 123.88 |
| 31 | 55.62 | 123.84 |
| 32 | 57.23 | 123.80 |
| 33 | 58.84 | 123.76 |
| 34 | 60.44 | 123.70 |
| 35 | 62.05 | 123.64 |
| 36 | 63.66 | 123.54 |
| 37 | 65.27 | 123.49 |
| 38 | 66.88 | 123.47 |
| 39 | 68.49 | 123.50 |
| 40 | 70.10 | 123.52 |
| 41 | 71.71 | 123.54 |
| 42 | 73.32 | 123.56 |
| 43 | 74.93 | 123.60 |
| 44 | 76.54 | 123.65 |
| 45 | 78.15 | 123.72 |
| 46 | 79.76 | 123.78 |
| 47 | 81.37 | 123.80 |
| 48 | 82.98 | 123.80 |
| 49 | 84.58 | 123.79 |
| 50 | 86.19 | 123.73 |
| 51 | 87.80 | 123.64 |
| 52 | 89.41 | 123.54 |
| 53 | 91.02 | 123.47 |
| 54 | 92.63 | 123.43 |
| 55 | 94.24 | 123.42 |
| 56 | 95.85 | 123.42 |
| 57 | 97.46 | 123.45 |
| 58 | 99.07 | 123.50 |
| 59 | 100.68 | 123.53 |
| 60 | 102.29 | 123.56 |
| 61 | 103.90 | 123.60 |
| 62 | 105.51 | 123.67 |
| 63 | 107.11 | 123.74 |
| 64 | 108.72 | 123.82 |
| 65 | 110.33 | 123.88 |
| 66 | 111.94 | 123.92 |
| 67 | 113.55 | 123.99 |
| 68 | 115.16 | 124.08 |
| 69 | 116.77 | 124.17 |
| 70 | 118.38 | 124.24 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 71 | 119.99 | 124.28 |
| 72 | 121.60 | 124.30 |
| 73 | 123.21 | 124.30 |
| 74 | 124.82 | 124.30 |
| 75 | 126.43 | 124.32 |
| 76 | 128.04 | 124.34 |
| 77 | 129.65 | 124.36 |
| 78 | 131.25 | 124.36 |
| 79 | 132.86 | 124.35 |
| 80 | 134.47 | 124.36 |
| 81 | 136.34 | 124.36 |
| 82 | 138.22 | 124.36 |
| 83 | 140.09 | 124.38 |
| 84 | 141.96 | 124.41 |
| 85 | 143.83 | 124.47 |
| 86 | 145.70 | 124.57 |
| 87 | 147.57 | 124.71 |
| 88 | 149.44 | 124.93 |
| 89 | 151.31 | 125.27 |
| 90 | 153.19 | 125.58 |
| 91 | 155.06 | 125.53 |
| 92 | 156.93 | 125.25 |
| 93 | 158.80 | 125.61 |
| 94 | 160.67 | 125.99 |
| 95 | 162.54 | 126.51 |
| 96 | 164.41 | 126.63 |
| 97 | 166.24 | 126.54 |
| 98 | 168.06 | 126.23 |
| 99 | 169.88 | 126.00 |
| 100 | 171.71 | 125.91 |
| 101 | 173.53 | 125.90 |
| 102 | 175.36 | 125.97 |
| 103 | 177.18 | 126.06 |
| 104 | 179.00 | 126.24 |
| 105 | 180.83 | 126.50 |
| 106 | 182.65 | 126.68 |
| 107 | 184.48 | 126.76 |
| 108 | 186.30 | 126.78 |
| 109 | 188.12 | 126.80 |
| 110 | 189.95 | 127.03 |
| 111 | 191.77 | 127.19 |
| 112 | 193.59 | 127.16 |

Comment:

Weir Cross Section: X-1180W

Scenario: Scenario1
Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 121.84 |
| 1 | 1.42 | 121.84 |
| 2 | 2.83 | 121.84 |
| 3 | 4.25 | 121.84 |
| 4 | 5.66 | 121.84 |
| 5 | 7.08 | 121.84 |
| 6 | 8.50 | 121.82 |
| 7 | 9.91 | 121.81 |
| 8 | 11.33 | 121.82 |
| 9 | 12.75 | 121.81 |
| 10 | 14.16 | 121.78 |
| 11 | 15.58 | 121.79 |
| 12 | 16.99 | 121.82 |
| 13 | 18.41 | 121.85 |
| 14 | 19.83 | 121.86 |
| 15 | 21.24 | 121.84 |
| 16 | 22.66 | 121.84 |
| 17 | 24.08 | 121.87 |
| 18 | 25.49 | 121.89 |
| 19 | 26.91 | 121.89 |
| 20 | 28.32 | 121.91 |
| 21 | 29.74 | 121.92 |
| 22 | 31.16 | 121.91 |
| 23 | 32.57 | 121.89 |
| 24 | 33.99 | 121.89 |
| 25 | 35.40 | 121.88 |
| 26 | 36.82 | 121.86 |
| 27 | 38.24 | 121.84 |
| 28 | 39.65 | 121.82 |
| 29 | 41.07 | 121.81 |
| 30 | 42.49 | 121.81 |
| 31 | 43.90 | 121.81 |
| 32 | 45.32 | 121.81 |
| 33 | 46.73 | 121.80 |
| 34 | 48.15 | 121.80 |
| 35 | 49.57 | 121.80 |
| 36 | 50.98 | 121.80 |
| 37 | 52.40 | 121.80 |
| 38 | 53.81 | 121.83 |
| 39 | 55.23 | 121.84 |
| 40 | 56.65 | 121.84 |
| 41 | 58.06 | 121.84 |
| 42 | 59.48 | 121.84 |
| 43 | 60.90 | 121.85 |
| 44 | 62.31 | 121.86 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 45 | 63.73 | 121.86 |
| 46 | 65.14 | 121.86 |
| 47 | 66.56 | 121.90 |
| 48 | 67.98 | 121.91 |
| 49 | 69.39 | 121.89 |
| 50 | 70.81 | 121.90 |
| 51 | 72.23 | 121.92 |
| 52 | 73.64 | 121.92 |
| 53 | 75.06 | 121.92 |
| 54 | 76.47 | 121.92 |
| 55 | 77.89 | 121.93 |
| 56 | 79.31 | 121.94 |
| 57 | 80.72 | 121.96 |
| 58 | 82.14 | 121.99 |
| 59 | 83.55 | 121.96 |
| 60 | 84.97 | 121.93 |
| 61 | 86.39 | 121.96 |
| 62 | 87.80 | 121.99 |
| 63 | 89.22 | 121.99 |
| 64 | 90.64 | 122.00 |
| 65 | 92.05 | 122.01 |
| 66 | 93.47 | 122.02 |
| 67 | 94.88 | 122.03 |
| 68 | 96.30 | 122.02 |
| 69 | 97.72 | 122.00 |
| 70 | 99.13 | 121.99 |
| 71 | 100.55 | 121.99 |
| 72 | 101.96 | 121.99 |
| 73 | 103.38 | 121.99 |
| 74 | 104.80 | 121.98 |
| 75 | 106.21 | 122.00 |
| 76 | 107.63 | 122.01 |
| 77 | 109.05 | 122.01 |
| 78 | 110.46 | 122.00 |
| 79 | 111.88 | 121.99 |
| 80 | 113.29 | 121.96 |
| 81 | 114.71 | 121.94 |
| 82 | 116.13 | 121.94 |
| 83 | 117.54 | 121.95 |
| 84 | 118.96 | 121.96 |
| 85 | 120.38 | 121.96 |
| 86 | 121.79 | 121.95 |
| 87 | 123.21 | 121.94 |
| 88 | 124.62 | 121.94 |
| 89 | 126.04 | 121.91 |
| 90 | 127.46 | 121.90 |
| 91 | 128.87 | 121.90 |
| 92 | 130.29 | 121.88 |
| 93 | 131.70 | 121.86 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 94 | 133.12 | 121.85 |
| 95 | 134.54 | 121.87 |
| 96 | 135.95 | 121.87 |
| 97 | 137.37 | 121.86 |
| 98 | 138.79 | 121.85 |
| 99 | 140.20 | 121.85 |
| 100 | 141.62 | 121.85 |
| 101 | 143.03 | 121.86 |
| 102 | 144.45 | 121.86 |
| 103 | 145.87 | 121.86 |
| 104 | 147.28 | 121.87 |
| 105 | 148.70 | 121.86 |
| 106 | 150.12 | 121.85 |
| 107 | 151.53 | 121.86 |
| 108 | 152.95 | 121.86 |
| 109 | 154.36 | 121.86 |
| 110 | 155.78 | 121.86 |
| 111 | 157.20 | 121.86 |
| 112 | 158.61 | 121.87 |
| 113 | 160.03 | 121.88 |
| 114 | 161.44 | 121.86 |
| 115 | 162.86 | 121.85 |
| 116 | 164.28 | 121.84 |
| 117 | 165.69 | 121.84 |
| 118 | 167.11 | 121.84 |
| 119 | 168.53 | 121.83 |
| 120 | 169.94 | 121.82 |
| 121 | 171.36 | 121.81 |
| 122 | 172.77 | 121.81 |
| 123 | 174.19 | 121.83 |
| 124 | 175.61 | 121.86 |
| 125 | 177.02 | 121.89 |
| 126 | 178.44 | 121.87 |
| 127 | 179.85 | 121.84 |
| 128 | 181.27 | 121.85 |
| 129 | 183.49 | 121.86 |
| 130 | 185.71 | 121.87 |
| 131 | 187.93 | 121.93 |
| 132 | 190.14 | 121.97 |
| 133 | 192.36 | 121.98 |
| 134 | 194.58 | 121.98 |
| 135 | 196.80 | 122.03 |
| 136 | 199.02 | 122.09 |
| 137 | 201.24 | 122.12 |
| 138 | 203.45 | 122.13 |
| 139 | 205.67 | 122.17 |
| 140 | 207.89 | 122.23 |
| 141 | 210.11 | 122.27 |
| 142 | 212.33 | 122.31 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 143 | 214.54 | 122.37 |
| 144 | 216.76 | 122.46 |
| 145 | 218.98 | 122.58 |
| 146 | 221.20 | 122.69 |
| 147 | 223.42 | 122.78 |
| 148 | 225.64 | 122.89 |
| 149 | 227.85 | 123.02 |
| 150 | 230.07 | 123.08 |
| 151 | 232.29 | 123.20 |
| 152 | 234.51 | 123.33 |
| 153 | 236.73 | 123.48 |
| 154 | 238.95 | 123.60 |
| 155 | 241.16 | 123.67 |
| 156 | 243.38 | 123.71 |
| 157 | 245.60 | 123.77 |
| 158 | 247.82 | 123.83 |
| 159 | 250.04 | 123.86 |
| 160 | 252.25 | 123.91 |

Comment:

## Weir Cross Section: X-1190W

Scenario: Scenario1

Lid: No

Bottom Point Table

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 0 | 0.00 | 123.50 |
| 1 | 2.35 | 123.47 |
| 2 | 4.69 | 123.42 |
| 3 | 7.04 | 123.35 |
| 4 | 9.38 | 123.29 |
| 5 | 11.73 | 123.23 |
| 6 | 14.07 | 123.17 |
| 7 | 16.42 | 123.07 |
| 8 | 18.76 | 122.93 |
| 9 | 21.11 | 122.82 |
| 10 | 23.45 | 122.74 |
| 11 | 25.80 | 122.65 |
| 12 | 28.14 | 122.56 |
| 13 | 30.49 | 122.48 |
| 14 | 32.83 | 122.43 |
| 15 | 35.18 | 122.36 |
| 16 | 37.52 | 122.29 |
| 17 | 39.87 | 122.26 |
| 18 | 42.22 | 122.23 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 19 | 44.56 | 122.18 |
| 20 | 46.91 | 122.11 |
| 21 | 49.25 | 122.05 |
| 22 | 51.60 | 122.03 |
| 23 | 53.94 | 122.00 |
| 24 | 56.29 | 121.96 |
| 25 | 58.63 | 121.94 |
| 26 | 60.98 | 121.92 |
| 27 | 63.32 | 121.87 |
| 28 | 65.67 | 121.85 |
| 29 | 68.01 | 121.78 |
| 30 | 70.36 | 121.69 |
| 31 | 72.70 | 121.63 |
| 32 | 75.05 | 121.62 |
| 33 | 76.61 | 121.60 |
| 34 | 78.18 | 121.58 |
| 35 | 79.74 | 121.58 |
| 36 | 81.31 | 121.57 |
| 37 | 82.87 | 121.54 |
| 38 | 84.43 | 121.52 |
| 39 | 86.00 | 121.50 |
| 40 | 87.56 | 121.48 |
| 41 | 89.12 | 121.45 |
| 42 | 90.69 | 121.39 |
| 43 | 92.25 | 121.36 |
| 44 | 93.82 | 121.34 |
| 45 | 95.38 | 121.33 |
| 46 | 96.94 | 121.29 |
| 47 | 98.51 | 121.26 |
| 48 | 100.07 | 121.23 |
| 49 | 101.64 | 121.22 |
| 50 | 103.20 | 121.22 |
| 51 | 104.76 | 121.18 |
| 52 | 106.33 | 121.15 |
| 53 | 107.89 | 121.13 |
| 54 | 109.46 | 121.12 |
| 55 | 111.02 | 121.11 |
| 56 | 112.58 | 121.09 |
| 57 | 114.15 | 121.06 |
| 58 | 115.71 | 121.03 |
| 59 | 117.27 | 121.02 |
| 60 | 118.84 | 121.02 |
| 61 | 120.40 | 121.02 |
| 62 | 121.97 | 121.02 |
| 63 | 123.53 | 121.01 |
| 64 | 125.09 | 121.00 |
| 65 | 126.36 | 120.99 |
| 66 | 127.62 | 120.98 |
| 67 | 128.89 | 120.99 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 68 | 130.15 | 121.01 |
| 69 | 131.42 | 121.03 |
| 70 | 132.68 | 121.03 |
| 71 | 133.95 | 121.04 |
| 72 | 135.21 | 121.06 |
| 73 | 136.47 | 121.07 |
| 74 | 137.74 | 121.07 |
| 75 | 139.00 | 121.06 |
| 76 | 140.27 | 121.07 |
| 77 | 141.53 | 121.09 |
| 78 | 142.80 | 121.09 |
| 79 | 144.06 | 121.11 |
| 80 | 145.33 | 121.10 |
| 81 | 146.59 | 121.10 |
| 82 | 147.86 | 121.11 |
| 83 | 149.12 | 121.12 |
| 84 | 150.38 | 121.13 |
| 85 | 151.65 | 121.14 |
| 86 | 152.91 | 121.16 |
| 87 | 154.18 | 121.19 |
| 88 | 155.44 | 121.20 |
| 89 | 156.71 | 121.22 |
| 90 | 157.97 | 121.24 |
| 91 | 159.24 | 121.26 |
| 92 | 160.50 | 121.29 |
| 93 | 161.76 | 121.31 |
| 94 | 163.03 | 121.34 |
| 95 | 164.29 | 121.38 |
| 96 | 165.56 | 121.41 |
| 97 | 167.82 | 121.45 |
| 98 | 170.08 | 121.49 |
| 99 | 172.34 | 121.52 |
| 100 | 174.60 | 121.56 |
| 101 | 176.87 | 121.57 |
| 102 | 179.13 | 121.61 |
| 103 | 181.39 | 121.62 |
| 104 | 183.65 | 121.66 |
| 105 | 185.91 | 121.69 |
| 106 | 188.17 | 121.74 |
| 107 | 190.44 | 121.78 |
| 108 | 192.70 | 121.87 |
| 109 | 194.96 | 121.97 |
| 110 | 197.22 | 122.06 |
| 111 | 199.48 | 122.14 |
| 112 | 201.74 | 122.21 |
| 113 | 203.70 | 122.25 |
| 114 | 205.66 | 122.27 |
| 115 | 207.61 | 122.31 |
| 116 | 209.57 | 122.36 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 117 | 211.53 | 122.38 |
| 118 | 213.48 | 122.41 |
| 119 | 215.44 | 122.45 |
| 120 | 217.40 | 122.49 |
| 121 | 219.35 | 122.52 |
| 122 | 221.31 | 122.55 |
| 123 | 223.27 | 122.57 |
| 124 | 225.22 | 122.59 |
| 125 | 227.18 | 122.62 |
| 126 | 229.14 | 122.62 |
| 127 | 231.09 | 122.62 |
| 128 | 233.05 | 122.64 |
| 129 | 234.35 | 122.66 |
| 130 | 235.65 | 122.67 |
| 131 | 236.95 | 122.67 |
| 132 | 238.25 | 122.69 |
| 133 | 239.55 | 122.71 |
| 134 | 240.85 | 122.70 |
| 135 | 242.15 | 122.69 |
| 136 | 243.45 | 122.70 |
| 137 | 244.75 | 122.70 |
| 138 | 246.05 | 122.71 |
| 139 | 247.35 | 122.72 |
| 140 | 248.64 | 122.72 |
| 141 | 249.94 | 122.73 |
| 142 | 251.24 | 122.74 |
| 143 | 252.54 | 122.74 |
| 144 | 253.84 | 122.74 |
| 145 | 255.14 | 122.75 |
| 146 | 256.44 | 122.76 |
| 147 | 257.74 | 122.77 |
| 148 | 259.04 | 122.77 |
| 149 | 260.34 | 122.77 |
| 150 | 261.64 | 122.75 |
| 151 | 262.94 | 122.73 |
| 152 | 264.24 | 122.71 |
| 153 | 265.54 | 122.68 |
| 154 | 266.84 | 122.64 |
| 155 | 268.14 | 122.61 |
| 156 | 269.44 | 122.59 |
| 157 | 270.74 | 122.56 |
| 158 | 272.04 | 122.53 |
| 159 | 273.34 | 122.49 |
| 160 | 274.64 | 122.44 |
| 161 | 276.49 | 122.35 |
| 162 | 278.35 | 122.28 |
| 163 | 280.20 | 122.23 |
| 164 | 282.06 | 122.21 |
| 165 | 283.91 | 122.19 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 166 | 285.77 | 122.18 |
| 167 | 287.62 | 122.14 |
| 168 | 289.48 | 122.08 |
| 169 | 291.33 | 122.01 |
| 170 | 293.19 | 121.98 |
| 171 | 295.04 | 121.89 |
| 172 | 296.90 | 121.80 |
| 173 | 298.75 | 121.78 |
| 174 | 300.61 | 121.80 |
| 175 | 302.46 | 121.77 |
| 176 | 304.32 | 121.67 |
| 177 | 306.18 | 121.56 |
| 178 | 308.03 | 121.45 |
| 179 | 309.89 | 121.36 |
| 180 | 311.74 | 121.30 |
| 181 | 313.60 | 121.25 |
| 182 | 315.45 | 121.19 |
| 183 | 317.31 | 121.15 |
| 184 | 319.16 | 121.07 |
| 185 | 321.02 | 121.01 |
| 186 | 322.87 | 120.97 |
| 187 | 324.73 | 120.97 |
| 188 | 326.58 | 120.98 |
| 189 | 328.44 | 121.00 |
| 190 | 330.29 | 120.99 |
| 191 | 332.15 | 120.97 |
| 192 | 334.00 | 120.96 |
| 193 | 336.20 | 120.94 |
| 194 | 338.40 | 120.87 |
| 195 | 340.59 | 120.81 |
| 196 | 342.79 | 120.71 |
| 197 | 344.98 | 120.60 |
| 198 | 347.18 | 120.50 |
| 199 | 349.38 | 120.42 |
| 200 | 351.57 | 120.33 |
| 201 | 353.77 | 120.22 |
| 202 | 355.97 | 120.13 |
| 203 | 358.16 | 120.06 |
| 204 | 360.36 | 120.02 |
| 205 | 362.55 | 120.01 |
| 206 | 364.75 | 119.99 |
| 207 | 366.95 | 119.96 |
| 208 | 369.14 | 119.98 |
| 209 | 371.34 | 119.97 |
| 210 | 373.54 | 119.86 |
| 211 | 375.73 | 119.85 |
| 212 | 377.93 | 119.88 |
| 213 | 380.12 | 119.89 |
| 214 | 382.32 | 119.82 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 215 | 384.52 | 119.72 |
| 216 | 386.71 | 119.65 |
| 217 | 388.91 | 119.58 |
| 218 | 391.11 | 119.50 |
| 219 | 393.30 | 119.46 |
| 220 | 395.50 | 119.42 |
| 221 | 397.69 | 119.39 |
| 222 | 399.89 | 119.36 |
| 223 | 402.09 | 119.28 |
| 224 | 404.28 | 119.17 |
| 225 | 406.53 | 119.12 |
| 226 | 408.78 | 119.12 |
| 227 | 411.03 | 119.18 |
| 228 | 413.27 | 119.23 |
| 229 | 415.52 | 119.22 |
| 230 | 417.77 | 119.13 |
| 231 | 420.02 | 119.01 |
| 232 | 422.26 | 118.93 |
| 233 | 424.51 | 118.86 |
| 234 | 426.76 | 118.80 |
| 235 | 429.01 | 118.73 |
| 236 | 431.25 | 118.72 |
| 237 | 433.50 | 118.76 |
| 238 | 435.75 | 118.83 |
| 239 | 438.00 | 118.88 |
| 240 | 440.24 | 118.92 |
| 241 | 442.49 | 118.95 |
| 242 | 444.74 | 118.96 |
| 243 | 446.99 | 118.85 |
| 244 | 449.23 | 118.84 |
| 245 | 451.48 | 118.85 |
| 246 | 453.73 | 118.87 |
| 247 | 455.98 | 118.90 |
| 248 | 458.22 | 118.94 |
| 249 | 460.47 | 118.98 |
| 250 | 462.72 | 119.06 |
| 251 | 464.97 | 119.14 |
| 252 | 467.22 | 119.13 |
| 253 | 469.46 | 119.17 |
| 254 | 471.71 | 119.20 |
| 255 | 473.96 | 119.27 |
| 256 | 476.21 | 119.38 |
| 257 | 477.52 | 119.46 |
| 258 | 478.83 | 119.57 |
| 259 | 480.14 | 119.67 |
| 260 | 481.45 | 119.76 |
| 261 | 482.77 | 119.85 |
| 262 | 484.08 | 119.92 |
| 263 | 485.39 | 119.98 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 264 | 486.70 | 120.01 |
| 265 | 488.02 | 120.04 |
| 266 | 489.33 | 120.07 |
| 267 | 490.64 | 120.09 |
| 268 | 491.95 | 120.09 |
| 269 | 493.26 | 120.12 |
| 270 | 494.58 | 120.16 |
| 271 | 495.89 | 120.20 |
| 272 | 497.20 | 120.24 |
| 273 | 498.51 | 120.30 |
| 274 | 499.83 | 120.36 |
| 275 | 501.14 | 120.41 |
| 276 | 502.45 | 120.45 |
| 277 | 503.76 | 120.52 |
| 278 | 505.07 | 120.58 |
| 279 | 506.39 | 120.64 |
| 280 | 507.70 | 120.70 |
| 281 | 509.01 | 120.78 |
| 282 | 510.32 | 120.85 |
| 283 | 511.64 | 120.95 |
| 284 | 512.95 | 121.04 |
| 285 | 514.26 | 121.12 |
| 286 | 515.57 | 121.19 |
| 287 | 516.88 | 121.23 |
| 288 | 518.20 | 121.28 |
| 289 | 519.51 | 121.34 |
| 290 | 520.82 | 121.40 |
| 291 | 522.13 | 121.46 |
| 292 | 523.45 | 121.50 |
| 293 | 524.76 | 121.53 |
| 294 | 526.07 | 121.57 |
| 295 | 527.38 | 121.61 |
| 296 | 528.69 | 121.67 |
| 297 | 530.01 | 121.73 |
| 298 | 531.32 | 121.81 |
| 299 | 532.63 | 121.88 |
| 300 | 533.94 | 121.92 |
| 301 | 535.26 | 121.96 |
| 302 | 536.57 | 122.04 |
| 303 | 537.88 | 122.13 |
| 304 | 539.19 | 122.21 |
| 305 | 540.50 | 122.28 |
| 306 | 541.82 | 122.35 |
| 307 | 543.13 | 122.45 |
| 308 | 544.44 | 122.56 |
| 309 | 545.75 | 122.64 |
| 310 | 547.06 | 122.71 |
| 311 | 548.38 | 122.76 |
| 312 | 549.69 | 122.82 |

| Order | Station [ft] | Elevation [ft] |
|---|---|---|
| 313 | 551.00 | 122.86 |
| 314 | 552.31 | 122.92 |
| 315 | 553.63 | 122.97 |
| 316 | 554.94 | 123.03 |
| 317 | 556.25 | 123.08 |
| 318 | 557.56 | 123.12 |
| 319 | 558.87 | 123.15 |
| 320 | 560.19 | 123.17 |

Comment:

Node Max Conditions [Scenario1]

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] |
|---|---|---|---|---|---|---|---|
| N-0350C | 100 YR-24 HR | 0.00 | 43.00 | 0.0000 | 105.13 | 0.87 | 0 |
| GT-105 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.56 | 0.00 | 0 |
| GT-106 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 7.04 | 0.00 | 0 |
| GT-108 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.10 | 0.10 | 0 |
| GT-109 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.24 | 0.00 | 0 |
| GT-110 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.44 | 0.00 | 0 |
| GT-111 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.43 | 0.00 | 0 |
| GT-112 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.43 | 0.37 | 0 |
| GT-113 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.66 | 0.00 | 0 |
| GT-114 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.98 | 0.00 | 0 |
| GT-115 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.59 | 0.02 | 0 |
| GT-115A | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.60 | 0.00 | 0 |
| GT-115_1 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.68 | 0.02 | 0 |
| GT-117 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 2.31 | 0.00 | 0 |
| GT-117-1 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 2.31 | 0.00 | 0 |
| GT-118 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |
| GT-119 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.04 | 0.00 | 0 |
| GT-120 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |
| GT-126 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.41 | 1.00 | 0 |
| GT-128 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.08 | 0.17 | 0 |
| N-0410 | 100 YR-24 HR | 0.00 | 40.95 | 0.0000 | 43.96 | 0.00 | 0 |
| N-100 | 100 YR-24 HR | 0.00 | 125.37 | 0.0000 | 3.91 | 3.90 | 469 |
| N-101 | 100 YR-24 HR | 0.00 | 123.64 | 0.0000 | 14.69 | 8.70 | 45751 |
| N-102 | 100 YR-24 HR | 0.00 | 123.64 | 0.0000 | 23.81 | 14.53 | 34634 |
| N-103 | 100 YR-24 HR | 0.00 | 122.03 | 0.0000 | 31.29 | 30.58 | 39373 |
| N-104 | 100 YR-24 HR | 0.00 | 121.42 | 0.0000 | 23.29 | 22.40 | 41863 |
| N-105 | 100 YR-24 HR | 0.00 | 117.91 | 0.0000 | 56.78 | 11.16 | 164215 |
| N-106 | 100 YR-24 HR | 0.00 | 119.20 | 0.0000 | 32.39 | 7.04 | 217754 |
| N-106A | 100 YR-24 HR | 0.00 | 119.55 | 0.0000 | 12.66 | 8.80 | 20825 |
| N-106B | 100 YR-24 HR | 0.00 | 119.20 | 0.0000 | 21.47 | 10.86 | 70531 |
| N-107 | 100 YR-24 HR | 0.00 | 118.65 | 0.0000 | 16.20 | 1.00 | 112836 |
| N-107A | 100 YR-24 HR | 0.00 | 117.81 | 0.0000 | 5.10 | 4.13 | 30449 |
| N-107B | 100 YR-24 HR | 0.00 | 116.99 | 0.0000 | 3.61 | 1.53 | 28959 |
| N-107C | 100 YR-24 HR | 0.00 | 118.21 | 0.0000 | 1.98 | 0.00 | 38896 |
| N-108 | 100 YR-24 HR | 0.00 | 115.99 | 0.0000 | 10.36 | 5.44 | 22947 |
| N-109 | 100 YR-24 HR | 0.00 | 115.99 | 0.0000 | 18.46 | 0.24 | 86232 |
| N-109A | 100 YR-24 HR | 0.00 | 114.06 | 0.0000 | 2.63 | 0.10 | 13796 |
| N-109B | 100 YR-24 HR | 0.00 | 112.86 | 0.0000 | 15.43 | 0.00 | 107342 |
| N-109C | 100 YR-24 HR | 0.00 | 116.20 | 0.0000 | 29.84 | 0.00 | 131487 |
| N-109D | 100 YR-24 HR | 0.00 | 117.35 | 0.0000 | 1.26 | 0.00 | 7846 |
| N-110 | 100 YR-24 HR | 0.00 | 115.16 | 0.0000 | 17.64 | 0.96 | 48304 |
| N-111 | 100 YR-24 HR | 0.00 | 115.16 | 0.0000 | 7.70 | 0.43 | 31070 |
| N-112 | 100 YR-24 HR | 0.00 | 109.22 | 0.0000 | 21.75 | 0.43 | 50093 |
| N-113 | 100 YR-24 HR | 0.00 | 109.63 | 0.0000 | 4.88 | 4.64 | 2825 |
| N-114 | 100 YR-24 HR | 0.00 | 106.56 | 0.0000 | 16.29 | 0.98 | 31633 |
| N-115 | 100 YR-24 HR | 0.00 | 98.29 | 0.0000 | 16.34 | 1.27 | 37156 |

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] |
|---|---|---|---|---|---|---|---|
| N-115A | 100 YR-24 HR | 0.00 | 103.79 | 0.0000 | 5.02 | 0.60 | 11583 |
| N-116 | 100 YR-24 HR | 0.00 | 99.07 | 0.0000 | 20.25 | 18.97 | 2829 |
| N-117 | 100 YR-24 HR | 0.00 | 96.73 | 0.0000 | 29.62 | 4.62 | 44473 |
| N-118 | 100 YR-24 HR | 0.00 | 46.23 | -0.0006 | 41.74 | 63.91 | 100 |
| N-119 | 100 YR-24 HR | 0.00 | 80.01 | 0.0000 | 18.02 | 0.04 | 46865 |
| N-120 | 100 YR-24 HR | 0.00 | 47.87 | -0.0001 | 29.14 | 29.11 | 319 |
| N-120A | 100 YR-24 HR | 0.00 | 48.52 | 0.0000 | 25.09 | 25.06 | 2933 |
| N-120B | 100 YR-24 HR | 0.00 | 47.87 | 0.0000 | 37.70 | 31.79 | 49907 |
| N-122 | 100 YR-24 HR | 0.00 | 46.30 | 0.0000 | 26.39 | 8.15 | 46060 |
| N-123 | 100 YR-24 HR | 0.00 | 46.11 | 0.0000 | 29.57 | 29.56 | 2759 |
| N-123A | 100 YR-24 HR | 0.00 | 45.92 | 0.0000 | 28.05 | 26.70 | 51192 |
| N-124 | 100 YR-24 HR | 0.00 | 45.15 | 0.0000 | 13.40 | 12.78 | 9398 |
| N-125 | 100 YR-24 HR | 0.00 | 45.43 | 0.0000 | 24.70 | 23.72 | 6243 |
| N-125A | 100 YR-24 HR | 0.00 | 45.39 | 0.0000 | 17.32 | 14.54 | 33416 |
| N-126 | 100 YR-24 HR | 0.00 | 42.79 | 0.0000 | 84.59 | 44.33 | 82525 |
| N-126A | 100 YR-24 HR | 0.00 | 44.08 | 0.0000 | 85.80 | 0.00 | 630473 |
| N-127 | 100 YR-24 HR | 0.00 | 43.33 | 0.0000 | 23.19 | 21.51 | 21761 |
| N-127A | 100 YR-24 HR | 0.00 | 44.08 | 0.0000 | 53.38 | 45.24 | 93650 |
| N-127B | 100 YR-24 HR | 0.00 | 45.22 | 0.0000 | 54.27 | 0.00 | 316094 |
| N-127C | 100 YR-24 HR | 0.00 | 44.07 | 0.0000 | 93.42 | 89.63 | 74679 |
| N-128 | 100 YR-24 HR | 0.00 | 43.24 | 0.0000 | 91.72 | 84.22 | 91060 |
| N-128A | 100 YR-24 HR | 0.00 | 44.93 | 0.0000 | 281.11 | 0.03 | 1385957 |
| N-128B | 100 YR-24 HR | 0.00 | 44.69 | 0.0000 | 37.76 | 22.50 | 155752 |
| N-128C | 100 YR-24 HR | 0.00 | 45.14 | 0.0000 | 20.55 | 15.30 | 64794 |
| NTZ-1040 | 100 YR-24 HR | 0.00 | 43.25 | 0.0000 | 21.51 | 21.70 | 2182 |
| NTZ-1080 | 100 YR-24 HR | 0.00 | 122.68 | 0.0000 | 0.00 | 0.00 | 0 |
| NTZ-1520 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 22.20 | 0.00 | 0 |
| NTZ-1530 | 100 YR-24 HR | 0.00 | 43.80 | 0.0000 | 160.60 | 0.00 | 0 |
| NTZ-1540 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 13.04 | 0.00 | 0 |
| NTZ-1550 | 100 YR-24 HR | 0.00 | 44.90 | 0.0000 | 54.50 | 0.00 | 0 |
| NTZ-1570 | 100 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |
| N-0350C | 50 YR-24 HR | 0.00 | 43.00 | 0.0000 | 90.05 | 0.87 | 0 |
| GT-105 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.46 | 0.00 | 0 |
| GT-106 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 7.04 | 0.00 | 0 |
| GT-108 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.08 | 0.10 | 0 |
| GT-109 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.20 | 0.00 | 0 |
| GT-110 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.38 | 0.00 | 0 |
| GT-111 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.42 | 0.00 | 0 |
| GT-112 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.36 | 0.37 | 0 |
| GT-113 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.11 | 0.00 | 0 |
| GT-114 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.91 | 0.00 | 0 |
| GT-115 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.46 | 0.02 | 0 |
| GT-115A | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.48 | 0.00 | 0 |
| GT-115_1 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.53 | 0.02 | 0 |
| GT-117 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 1.85 | 0.00 | 0 |
| GT-117-1 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 1.85 | 0.00 | 0 |
| GT-118 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] |
|---|---|---|---|---|---|---|---|
| GT-119 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.04 | 0.00 | 0 |
| GT-120 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |
| GT-126 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.34 | 1.00 | 0 |
| GT-128 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.06 | 0.17 | 0 |
| N-0410 | 50 YR-24 HR | 0.00 | 40.95 | 0.0000 | 39.49 | 0.00 | 0 |
| N-100 | 50 YR-24 HR | 0.00 | 125.23 | 0.0000 | 3.38 | 3.37 | 469 |
| N-101 | 50 YR-24 HR | 0.00 | 123.54 | 0.0000 | 10.36 | 4.56 | 38939 |
| N-102 | 50 YR-24 HR | 0.00 | 123.51 | 0.0000 | 18.73 | 10.43 | 31116 |
| N-103 | 50 YR-24 HR | 0.00 | 122.01 | 0.0000 | 25.87 | 25.20 | 37145 |
| N-104 | 50 YR-24 HR | 0.00 | 121.40 | 0.0000 | 19.63 | 18.76 | 41042 |
| N-105 | 50 YR-24 HR | 0.00 | 117.75 | 0.0000 | 45.85 | 3.80 | 154011 |
| N-106 | 50 YR-24 HR | 0.00 | 118.95 | 0.0000 | 24.32 | 7.04 | 197742 |
| N-106A | 50 YR-24 HR | 0.00 | 119.47 | 0.0000 | 9.76 | 5.25 | 17452 |
| N-106B | 50 YR-24 HR | 0.00 | 118.95 | 0.0000 | 14.23 | 7.14 | 66562 |
| N-107 | 50 YR-24 HR | 0.00 | 118.61 | 0.0000 | 11.42 | 0.50 | 109517 |
| N-107A | 50 YR-24 HR | 0.00 | 117.79 | 0.0000 | 3.86 | 3.00 | 30013 |
| N-107B | 50 YR-24 HR | 0.00 | 116.94 | 0.0000 | 2.50 | 0.95 | 26590 |
| N-107C | 50 YR-24 HR | 0.00 | 118.10 | 0.0000 | 1.21 | 0.00 | 37305 |
| N-108 | 50 YR-24 HR | 0.00 | 115.77 | 0.0000 | 8.23 | 4.38 | 21032 |
| N-109 | 50 YR-24 HR | 0.00 | 115.77 | 0.0000 | 14.98 | 0.20 | 82731 |
| N-109A | 50 YR-24 HR | 0.00 | 113.80 | 0.0000 | 1.81 | 0.00 | 12273 |
| N-109B | 50 YR-24 HR | 0.00 | 112.64 | 0.0000 | 11.30 | 0.00 | 93465 |
| N-109C | 50 YR-24 HR | 0.00 | 115.99 | 0.0000 | 25.14 | 0.00 | 125611 |
| N-109D | 50 YR-24 HR | 0.00 | 117.05 | 0.0000 | 0.81 | 0.00 | 7412 |
| N-110 | 50 YR-24 HR | 0.00 | 115.05 | 0.0000 | 13.92 | 0.45 | 45943 |
| N-111 | 50 YR-24 HR | 0.00 | 114.42 | 0.0000 | 5.89 | 0.42 | 21339 |
| N-112 | 50 YR-24 HR | 0.00 | 108.63 | 0.0000 | 16.65 | 0.36 | 41901 |
| N-113 | 50 YR-24 HR | 0.00 | 109.46 | 0.0000 | 3.11 | 3.05 | 718 |
| N-114 | 50 YR-24 HR | 0.00 | 105.93 | 0.0000 | 12.47 | 0.91 | 25822 |
| N-115 | 50 YR-24 HR | 0.00 | 97.46 | 0.0000 | 10.05 | 1.00 | 28999 |
| N-115A | 50 YR-24 HR | 0.00 | 103.30 | 0.0000 | 3.20 | 0.48 | 9191 |
| N-116 | 50 YR-24 HR | 0.00 | 98.61 | 0.0000 | 15.48 | 14.96 | 1616 |
| N-117 | 50 YR-24 HR | 0.00 | 96.18 | 0.0000 | 21.77 | 3.70 | 35647 |
| N-118 | 50 YR-24 HR | 0.00 | 46.20 | -0.0006 | 33.52 | 63.91 | 100 |
| N-119 | 50 YR-24 HR | 0.00 | 79.51 | 0.0000 | 13.51 | 0.04 | 42385 |
| N-120 | 50 YR-24 HR | 0.00 | 47.78 | -0.0001 | 25.42 | 25.42 | 320 |
| N-120A | 50 YR-24 HR | 0.00 | 48.50 | 0.0000 | 21.47 | 21.45 | 2719 |
| N-120B | 50 YR-24 HR | 0.00 | 47.79 | 0.0000 | 29.48 | 26.78 | 47122 |
| N-122 | 50 YR-24 HR | 0.00 | 46.22 | 0.0000 | 26.39 | 7.12 | 42992 |
| N-123 | 50 YR-24 HR | 0.00 | 46.10 | 0.0000 | 28.45 | 28.45 | 2738 |
| N-123A | 50 YR-24 HR | 0.00 | 45.90 | 0.0000 | 24.75 | 23.30 | 49406 |
| N-124 | 50 YR-24 HR | 0.00 | 45.11 | 0.0000 | 11.53 | 11.08 | 7947 |
| N-125 | 50 YR-24 HR | 0.00 | 45.39 | 0.0000 | 23.63 | 22.55 | 6085 |
| N-125A | 50 YR-24 HR | 0.00 | 45.36 | 0.0000 | 15.30 | 12.46 | 31470 |
| N-126 | 50 YR-24 HR | 0.00 | 42.56 | 0.0000 | 72.84 | 39.79 | 60757 |
| N-126A | 50 YR-24 HR | 0.00 | 43.97 | 0.0000 | 73.79 | 0.00 | 598580 |
| N-127 | 50 YR-24 HR | 0.00 | 43.26 | 0.0000 | 21.63 | 20.24 | 21550 |

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] |
|---|---|---|---|---|---|---|---|
| N-127A | 50 YR-24 HR | 0.00 | 44.04 | 0.0000 | 45.45 | 38.74 | 87280 |
| N-127B | 50 YR-24 HR | 0.00 | 45.08 | 0.0000 | 46.22 | 0.00 | 292458 |
| N-127C | 50 YR-24 HR | 0.00 | 44.02 | 0.0000 | 79.96 | 76.76 | 70869 |
| N-128 | 50 YR-24 HR | 0.00 | 43.18 | 0.0000 | 77.82 | 72.98 | 86933 |
| N-128A | 50 YR-24 HR | 0.00 | 44.77 | 0.0000 | 242.33 | 0.00 | 1271821 |
| N-128B | 50 YR-24 HR | 0.00 | 44.65 | 0.0000 | 32.47 | 18.63 | 142752 |
| N-128C | 50 YR-24 HR | 0.00 | 45.11 | 0.0000 | 17.67 | 11.68 | 61628 |
| NTZ-1040 | 50 YR-24 HR | 0.00 | 43.19 | 0.0000 | 20.24 | 20.35 | 2182 |
| NTZ-1080 | 50 YR-24 HR | 0.00 | 122.68 | 0.0000 | 0.00 | 0.00 | 0 |
| NTZ-1520 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 18.74 | 0.00 | 0 |
| NTZ-1530 | 50 YR-24 HR | 0.00 | 43.80 | 0.0000 | 132.40 | 0.00 | 0 |
| NTZ-1540 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 4.56 | 0.00 | 0 |
| NTZ-1550 | 50 YR-24 HR | 0.00 | 44.90 | 0.0000 | 44.59 | 0.00 | 0 |
| NTZ-1570 | 50 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |
| N-0350C | 500 YR-24 HR | 0.00 | 43.00 | 0.0000 | 143.38 | 0.87 | 0 |
| GT-105 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.79 | 0.00 | 0 |
| GT-106 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 7.04 | 0.00 | 0 |
| GT-108 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.16 | 0.10 | 0 |
| GT-109 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.36 | 0.00 | 0 |
| GT-110 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.58 | 0.00 | 0 |
| GT-111 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.47 | 0.00 | 0 |
| GT-112 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.60 | 0.37 | 0 |
| GT-113 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 2.42 | 0.00 | 0 |
| GT-114 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.86 | 0.00 | 0 |
| GT-115 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.88 | 0.02 | 0 |
| GT-115A | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.98 | 0.00 | 0 |
| GT-115_1 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 1.01 | 0.02 | 0 |
| GT-117 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 3.54 | 0.00 | 0 |
| GT-117-1 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 3.54 | 0.00 | 0 |
| GT-118 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |
| GT-119 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.07 | 0.00 | 0 |
| GT-120 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |
| GT-126 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.56 | 1.00 | 0 |
| GT-128 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.15 | 0.17 | 0 |
| N-0410 | 500 YR-24 HR | 0.00 | 40.95 | 0.0000 | 53.53 | 0.00 | 0 |
| N-100 | 500 YR-24 HR | 0.00 | 125.67 | 0.0000 | 5.46 | 5.46 | 469 |
| N-101 | 500 YR-24 HR | 0.00 | 123.78 | 0.0000 | 30.48 | 26.64 | 55267 |
| N-102 | 500 YR-24 HR | 0.00 | 123.85 | 0.0000 | 40.48 | 34.40 | 40487 |
| N-103 | 500 YR-24 HR | 0.00 | 122.11 | 0.0000 | 58.42 | 57.84 | 48679 |
| N-104 | 500 YR-24 HR | 0.00 | 121.52 | 0.0000 | 46.58 | 45.88 | 46302 |
| N-105 | 500 YR-24 HR | 0.00 | 118.25 | 0.0000 | 89.56 | 53.40 | 185243 |
| N-106 | 500 YR-24 HR | 0.00 | 119.73 | 0.0000 | 62.98 | 7.04 | 263591 |
| N-106A | 500 YR-24 HR | 0.00 | 119.73 | 0.0000 | 21.66 | 18.40 | 33453 |
| N-106B | 500 YR-24 HR | 0.00 | 119.73 | 0.0000 | 43.66 | 25.35 | 82314 |
| N-107 | 500 YR-24 HR | 0.00 | 118.80 | 0.0000 | 31.87 | 5.12 | 125256 |
| N-107A | 500 YR-24 HR | 0.00 | 117.86 | 0.0000 | 8.91 | 7.81 | 31526 |
| N-107B | 500 YR-24 HR | 0.00 | 117.13 | 0.0000 | 7.29 | 3.84 | 33673 |

| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] |
|---|---|---|---|---|---|---|---|
| N-107C | 500 YR-24 HR | 0.00 | 118.53 | 0.0000 | 4.72 | 0.00 | 43824 |
| N-108 | 500 YR-24 HR | 0.00 | 116.47 | 0.0000 | 16.82 | 8.12 | 27106 |
| N-109 | 500 YR-24 HR | 0.00 | 116.47 | 0.0000 | 28.96 | 0.97 | 95447 |
| N-109A | 500 YR-24 HR | 0.00 | 114.17 | 0.0000 | 5.35 | 1.05 | 14529 |
| N-109B | 500 YR-24 HR | 0.00 | 113.43 | 0.0000 | 29.28 | 0.00 | 140560 |
| N-109C | 500 YR-24 HR | 0.00 | 116.77 | 0.0000 | 44.18 | 0.00 | 147960 |
| N-109D | 500 YR-24 HR | 0.00 | 118.24 | 0.0000 | 2.81 | 0.00 | 9266 |
| N-110 | 500 YR-24 HR | 0.00 | 116.00 | 0.0000 | 28.96 | 5.72 | 67109 |
| N-111 | 500 YR-24 HR | 0.00 | 116.00 | 0.0000 | 13.22 | 0.47 | 46279 |
| N-112 | 500 YR-24 HR | 0.00 | 110.39 | 0.0000 | 36.31 | 0.76 | 73973 |
| N-113 | 500 YR-24 HR | 0.00 | 110.39 | 0.0000 | 11.04 | 9.27 | 18699 |
| N-114 | 500 YR-24 HR | 0.00 | 107.84 | 0.0000 | 27.98 | 0.86 | 56581 |
| N-115 | 500 YR-24 HR | 0.00 | 100.31 | 0.0000 | 38.52 | 1.89 | 61425 |
| N-115A | 500 YR-24 HR | 0.00 | 105.02 | 0.0000 | 11.34 | 0.98 | 18882 |
| N-116 | 500 YR-24 HR | 0.00 | 100.52 | 0.0000 | 34.87 | 27.14 | 8772 |
| N-117 | 500 YR-24 HR | 0.00 | 98.12 | 0.0000 | 50.62 | 7.08 | 67923 |
| N-118 | 500 YR-24 HR | 0.00 | 46.37 | -0.0006 | 65.35 | 65.35 | 100 |
| N-119 | 500 YR-24 HR | 0.00 | 81.29 | 0.0000 | 32.08 | 0.07 | 61614 |
| N-120 | 500 YR-24 HR | 0.00 | 48.03 | -0.0001 | 45.16 | 45.15 | 319 |
| N-120A | 500 YR-24 HR | 0.00 | 48.58 | 0.0000 | 35.24 | 35.21 | 3480 |
| N-120B | 500 YR-24 HR | 0.00 | 48.00 | 0.0000 | 66.31 | 62.99 | 54755 |
| N-122 | 500 YR-24 HR | 0.00 | 46.48 | 0.0000 | 26.39 | 10.66 | 53675 |
| N-123 | 500 YR-24 HR | 0.00 | 46.13 | 0.0000 | 32.15 | 32.14 | 2806 |
| N-123A | 500 YR-24 HR | 0.00 | 45.97 | 0.0000 | 43.18 | 40.92 | 57332 |
| N-124 | 500 YR-24 HR | 0.00 | 45.27 | 0.0000 | 18.66 | 17.59 | 12965 |
| N-125 | 500 YR-24 HR | 0.00 | 45.50 | 0.0000 | 27.44 | 26.60 | 6587 |
| N-125A | 500 YR-24 HR | 0.00 | 45.47 | 0.0000 | 22.94 | 19.88 | 37805 |
| N-126 | 500 YR-24 HR | 0.00 | 43.27 | 0.0000 | 117.50 | 54.00 | 143749 |
| N-126A | 500 YR-24 HR | 0.00 | 44.37 | 0.0000 | 119.41 | 0.00 | 694776 |
| N-127 | 500 YR-24 HR | 0.00 | 43.53 | 0.0000 | 27.44 | 24.75 | 22399 |
| N-127A | 500 YR-24 HR | 0.00 | 44.21 | 0.0000 | 75.66 | 64.06 | 109907 |
| N-127B | 500 YR-24 HR | 0.00 | 45.59 | 0.0000 | 76.90 | 0.00 | 369105 |
| N-127C | 500 YR-24 HR | 0.00 | 44.18 | 0.0000 | 131.89 | 126.86 | 84411 |
| N-128 | 500 YR-24 HR | 0.00 | 43.41 | 0.0000 | 126.25 | 110.84 | 103170 |
| N-128A | 500 YR-24 HR | 0.00 | 45.22 | 0.0000 | 390.32 | 7.31 | 1659401 |
| N-128B | 500 YR-24 HR | 0.00 | 44.78 | 0.0000 | 52.55 | 33.73 | 184605 |
| N-128C | 500 YR-24 HR | 0.00 | 45.20 | 0.0000 | 28.59 | 24.88 | 71071 |
| NTZ-1040 | 500 YR-24 HR | 0.00 | 43.43 | 0.0000 | 24.75 | 25.09 | 2182 |
| NTZ-1080 | 500 YR-24 HR | 0.00 | 122.68 | 0.0000 | 0.00 | 0.00 | 0 |
| NTZ-1520 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 42.40 | 0.00 | 0 |
| NTZ-1530 | 500 YR-24 HR | 0.00 | 43.80 | 0.0000 | 241.77 | 0.00 | 0 |
| NTZ-1540 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 63.80 | 0.00 | 0 |
| NTZ-1550 | 500 YR-24 HR | 0.00 | 44.90 | 0.0000 | 82.70 | 0.00 | 0 |
| NTZ-1570 | 500 YR-24 HR | 0.00 | 0.00 | 0.0000 | 0.00 | 0.00 | 0 |

# APPENDIX E

# CROSS DRAIN PHOTOS

# CD-9: 24” Pipe (MP 14.716)



**N. Side of SR 70**



**S. Side of SR 70**

# CD-10: 30” Pipe (MP 15.176)



**N. Side of SR 70**



**S. Side of SR 70**

# CD-11: 24” Pipe (MP 15.458)



**N. Side of SR 70**



**S. Side of SR 70**

# CD-12: 24” Pipe (MP 15.778)



**N. Side of SR 70**



**S. Side of SR 70**

# CD-13: 24” Pipe (MP 16.347)



**N. Side of SR 70**



**S. Side of SR 70**

# APPENDIX F

# HIGHLANDS COUNTY SOIL SURVEY

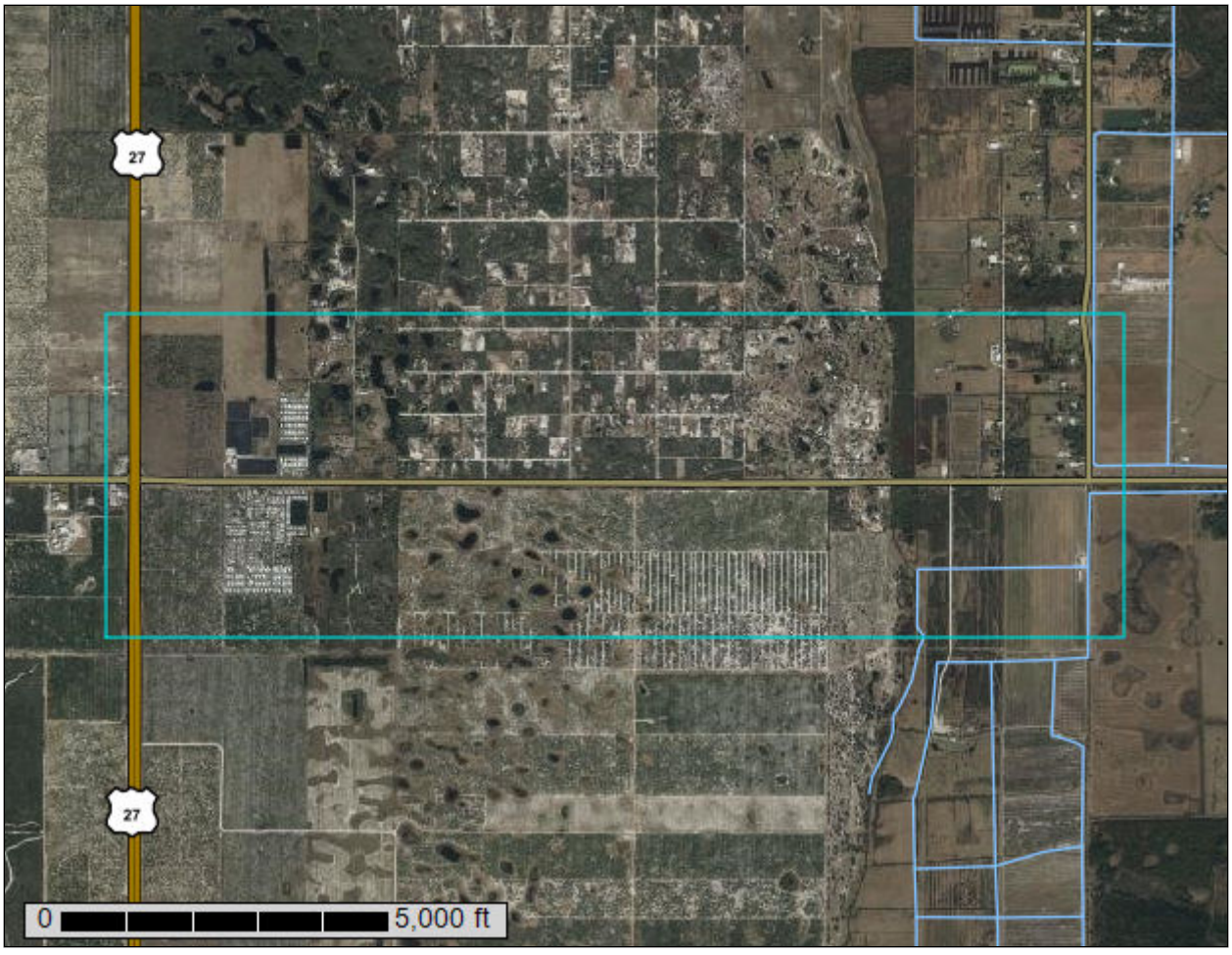
United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Highlands County, Florida




April 10, 2026

# Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

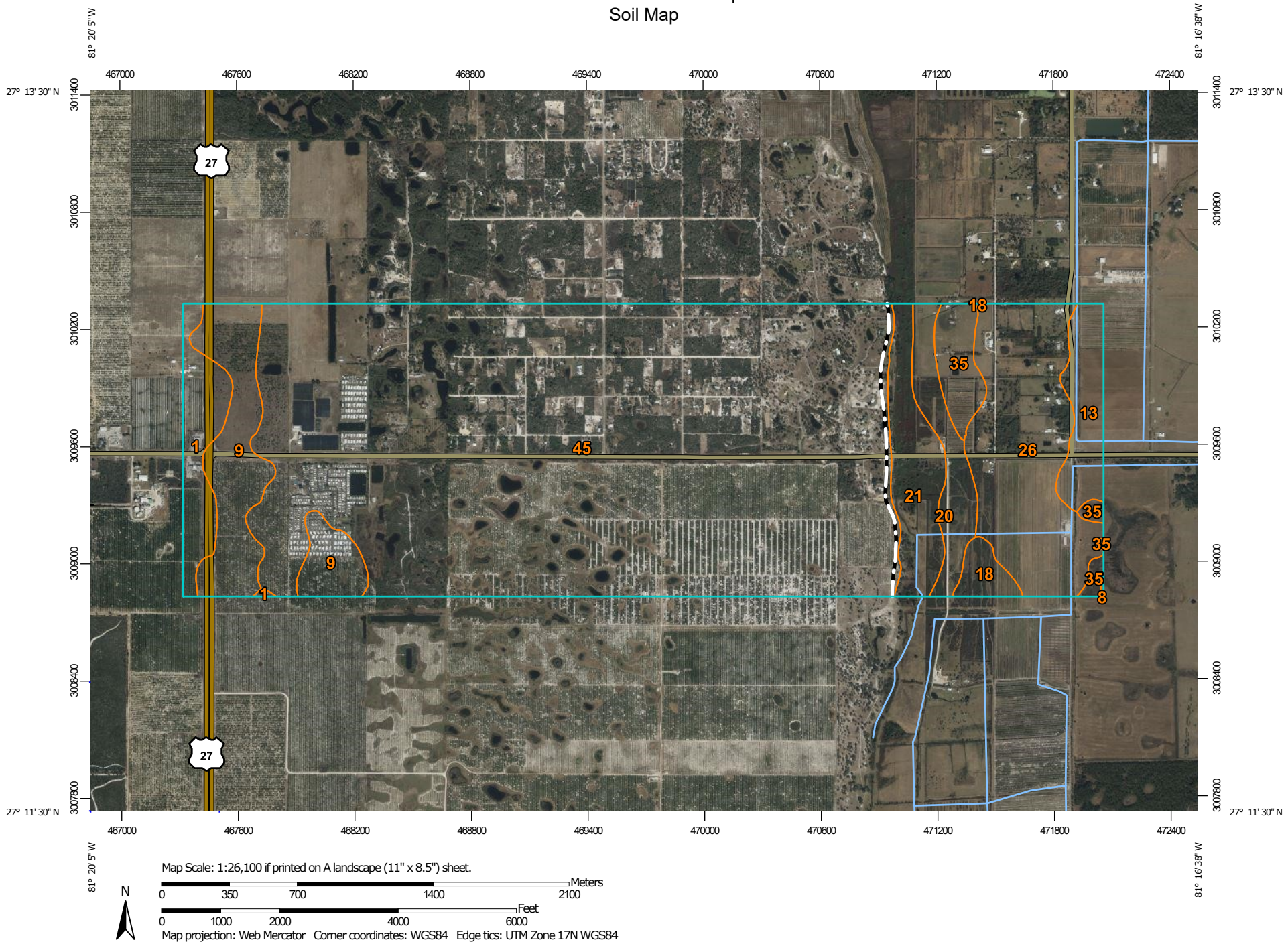
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report
## Soil Map



## MAP LEGEND

**Area of Interest (AOI)**
- Area of Interest (AOI)

**Soils**
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

**Special Point Features**
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

**Water Features**
- Streams and Canals

**Transportation**
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**
- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Highlands County, Florida
Survey Area Data: Version 25, Aug 28, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 30, 2022—Mar 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| 1 | Paola sand, 0 to 8 percent slopes | 54.5 | 3.1% |
| 8 | Immokalee sand, 0 to 2 percent slopes | 0.3 | 0.0% |
| 9 | Astatula sand, 0 to 5 percent slopes | 119.3 | 6.8% |
| 13 | Felda fine sand, 0 to 2 percent slopes | 48.1 | 2.7% |
| 18 | Kaliga muck, frequently ponded, 0 to 1 percent slopes | 16.2 | 0.9% |
| 20 | Samsula muck, frequently ponded, 0 to 1 percent slopes | 50.2 | 2.8% |
| 21 | Hontoon muck, frequently ponded, 0 to 1 percent slopes | 70.9 | 4.0% |
| 26 | Tequesta muck, frequently ponded, 0 to 1 percent slopes | 178.8 | 10.2% |
| 35 | Sanibel muck, frequently ponded, 0 to 1 percent slopes | 38.7 | 2.2% |
| 45 | Paola-Basinger sands, rolling | 1,184.5 | 67.2% |
| **Totals for Area of Interest** | | **1,761.6** | **100.0%** |

# Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different

management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

# Highlands County, Florida

## 1—Paola sand, 0 to 8 percent slopes

### Map Unit Setting

*National map unit symbol:* 2tzwk
*Landscape:* Coastal plains
*Elevation:* 70 to 200 feet
*Mean annual precipitation:* 46 to 55 inches
*Mean annual air temperature:* 68 to 77 degrees F
*Frost-free period:* 350 to 365 days
*Farmland classification:* Farmland of unique importance

### Map Unit Composition

*Paola and similar soils:* 85 percent
*Minor components:* 15 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Paola

#### Setting

*Landscape:* Coastal plains
*Landform:* Ridges on marine terraces, Hills on marine terraces
*Landform position (two-dimensional):* Summit, backslope
*Landform position (three-dimensional):* Interfluve, side slope, riser
*Down-slope shape:* Convex, linear
*Across-slope shape:* Linear
*Parent material:* Sandy marine deposits

#### Typical profile

*A - 0 to 6 inches:* sand
*E - 6 to 55 inches:* sand
*B/E - 55 to 80 inches:* sand

#### Properties and qualities

*Slope:* 0 to 8 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Excessively drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* Very high (19.98 to 50.02 in/hr)
*Depth to water table:* More than 80 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Very low (about 2.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 6s
*Hydrologic Soil Group:* A
*Ecological site:* F154XX002FL - Xeric Bicolor Sandy Uplands
*Forage suitability group:* Sandy soils on ridges and dunes of xeric uplands (G155XB111FL)

*Other vegetative classification:* Sand Pine Scrub (R155XY001FL), Sandy soils on ridges and dunes of xeric uplands (G155XB111FL)
*Hydric soil rating:* No

**Minor Components**

**Astatula**
*Percent of map unit:* 10 percent
*Landscape:* Coastal plains
*Landform:* Knolls on marine terraces, Ridges on marine terraces, Hills on marine terraces
*Landform position (two-dimensional):* Summit, backslope
*Landform position (three-dimensional):* Interfluve, side slope, riser, rise
*Down-slope shape:* Convex
*Across-slope shape:* Linear
*Ecological site:* R154XX001FL - Yellow Sands Xeric Uplands
*Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G155XB111FL)
*Hydric soil rating:* No

**Pomello**
*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Knolls on marine terraces, Ridges on marine terraces
*Landform position (two-dimensional):* Backslope, summit
*Landform position (three-dimensional):* Side slope, interfluve, riser
*Down-slope shape:* Linear, convex
*Across-slope shape:* Linear
*Ecological site:* F154XA008FL - Moist Sandy Scrubby Flatwoods
*Other vegetative classification:* Sand Pine Scrub (R155XY001FL), Sandy soils on rises and knolls of mesic uplands (G155XB131FL)
*Hydric soil rating:* No

## 8—Immokalee sand, 0 to 2 percent slopes

**Map Unit Setting**
*National map unit symbol:* 2s3ll
*Landscape:* Coastal plains
*Elevation:* 0 to 150 feet
*Mean annual precipitation:* 42 to 57 inches
*Mean annual air temperature:* 70 to 77 degrees F
*Frost-free period:* 350 to 365 days
*Farmland classification:* Farmland of unique importance

**Map Unit Composition**
*Immokalee and similar soils:* 85 percent
*Minor components:* 15 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Immokalee

### Setting

*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces
*Landform position (three-dimensional):* Talf
*Down-slope shape:* Linear, convex
*Across-slope shape:* Linear
*Parent material:* Sandy marine deposits

### Typical profile

*A - 0 to 9 inches:* sand
*E - 9 to 36 inches:* sand
*Bh - 36 to 55 inches:* sand
*C - 55 to 80 inches:* sand

### Properties and qualities

*Slope:* 0 to 2 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Poorly drained
*Runoff class:* Very high
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 1.98 in/hr)
*Depth to water table:* About 6 to 18 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Very low (about 3.0 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 4w
*Hydrologic Soil Group:* B/D
*Ecological site:* F155XY120FL - Sandy Flatwoods and Hammocks
*Forage suitability group:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* No

## Minor Components

### Valkaria

*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Drainageways on flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear
*Across-slope shape:* Linear, concave
*Ecological site:* F155XY120FL - Sandy Flatwoods and Hammocks
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* Yes

**Oldsmar**

*Percent of map unit:* 4 percent
*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces
*Landform position (three-dimensional):* Talf
*Down-slope shape:* Linear, convex
*Across-slope shape:* Linear
*Ecological site:* F155XY120FL - Sandy Flatwoods and Hammocks
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* No

**Pomello**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Knolls on marine terraces, Ridges on marine terraces
*Landform position (two-dimensional):* Backslope, summit
*Landform position (three-dimensional):* Side slope, interfluve, riser
*Down-slope shape:* Linear, convex
*Across-slope shape:* Linear
*Ecological site:* F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands
*Other vegetative classification:* Sand Pine Scrub (R155XY001FL), Sandy soils on rises and knolls of mesic uplands (G155XB131FL)
*Hydric soil rating:* No

**Satellite**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Drainageways on flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear
*Across-slope shape:* Linear, concave
*Ecological site:* F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands
*Other vegetative classification:* Sand Pine Scrub (R155XY001FL), Sandy soils on rises and knolls of mesic uplands (G155XB131FL)
*Hydric soil rating:* No

**Felda**

*Percent of map unit:* 1 percent
*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces, Drainageways on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear
*Across-slope shape:* Linear, concave
*Ecological site:* F155XY130FL - Sandy over Loamy Flatwoods and Hammocks
*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
*Hydric soil rating:* Yes

## 9—Astatula sand, 0 to 5 percent slopes

### Map Unit Setting

*National map unit symbol:* 2r8gx
*Landscape:* Coastal plains
*Elevation:* 20 to 190 feet
*Mean annual precipitation:* 46 to 54 inches
*Mean annual air temperature:* 68 to 75 degrees F
*Frost-free period:* 276 to 320 days
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Astatula and similar soils:* 90 percent
*Minor components:* 10 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Astatula

#### Setting

*Landscape:* Coastal plains
*Landform:* Hills on marine terraces, Ridges on marine terraces
*Landform position (two-dimensional):* Summit, shoulder, backslope
*Landform position (three-dimensional):* Interfluve, side slope
*Down-slope shape:* Convex
*Across-slope shape:* Convex
*Parent material:* Eolian or sandy marine deposits

#### Typical profile

*A - 0 to 3 inches:* sand
*C - 3 to 80 inches:* sand

#### Properties and qualities

*Slope:* 0 to 5 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Excessively drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* Very high (19.98 to 50.02 in/hr)
*Depth to water table:* More than 80 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Very low (about 2.5 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 6s
*Hydrologic Soil Group:* A
*Ecological site:* R154XX001FL - Yellow Sands Xeric Uplands

*Forage suitability group:* Sandy soils on ridges and dunes of xeric uplands (G154XB111FL)
*Other vegetative classification:* Sand Pine Scrub (R154XY001FL), Sandy soils on ridges and dunes of xeric uplands (G154XB111FL)
*Hydric soil rating:* No

**Minor Components**

**Tavares**
*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Flats on marine terraces, Ridges on marine terraces
*Landform position (two-dimensional):* Footslope, backslope
*Landform position (three-dimensional):* Interfluve
*Down-slope shape:* Convex
*Across-slope shape:* Linear
*Ecological site:* F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
*Other vegetative classification:* Longleaf Pine-Turkey Oak Hills (R154XY002FL), Sandy soils on rises, knolls, and ridges of mesic uplands (G155XB121FL)
*Hydric soil rating:* No

**Candler, very deep loamy substratum**
*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Knolls on marine terraces, Ridges on marine terraces
*Landform position (two-dimensional):* Shoulder, backslope
*Landform position (three-dimensional):* Interfluve
*Down-slope shape:* Convex
*Across-slope shape:* Convex
*Ecological site:* R154XX001FL - Yellow Sands Xeric Uplands
*Other vegetative classification:* Longleaf Pine-Turkey Oak Hills (R154XY002FL), Sandy soils on ridges and dunes of xeric uplands (G154XB111FL)
*Hydric soil rating:* No

## 13—Felda fine sand, 0 to 2 percent slopes

**Map Unit Setting**
*National map unit symbol:* 2tzvy
*Landscape:* Coastal plains
*Elevation:* 0 to 180 feet
*Mean annual precipitation:* 40 to 60 inches
*Mean annual air temperature:* 70 to 77 degrees F
*Frost-free period:* 350 to 365 days
*Farmland classification:* Farmland of unique importance

**Map Unit Composition**
*Felda and similar soils:* 85 percent
*Minor components:* 15 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Felda

### Setting

*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces, Drainageways on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear
*Across-slope shape:* Linear, concave
*Parent material:* Sandy and loamy marine deposits

### Typical profile

*A - 0 to 4 inches:* fine sand
*Eg - 4 to 35 inches:* fine sand
*Btg - 35 to 43 inches:* fine sandy loam
*Cg - 43 to 80 inches:* extremely paragravelly fine sand

### Properties and qualities

*Slope:* 0 to 2 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Poorly drained
*Runoff class:* Very high
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 6.00 in/hr)
*Depth to water table:* About 3 to 18 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Calcium carbonate, maximum content:* 4 percent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Low (about 5.2 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 3w
*Hydrologic Soil Group:* A/D
*Ecological site:* F155XY130FL - Sandy over Loamy Flatwoods and Hammocks
*Forage suitability group:* Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
*Hydric soil rating:* Yes

## Minor Components

### Wabasso

*Percent of map unit:* 6 percent
*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, talf
*Down-slope shape:* Linear, convex
*Across-slope shape:* Linear
*Ecological site:* F155XY120FL - Sandy Flatwoods and Hammocks
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* No

**Oldsmar**

*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces
*Landform position (three-dimensional):* Talf
*Down-slope shape:* Linear, convex
*Across-slope shape:* Linear
*Ecological site:* F155XY120FL - Sandy Flatwoods and Hammocks
*Other vegetative classification:* South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* No

**Valkaria**

*Percent of map unit:* 4 percent
*Landscape:* Coastal plains
*Landform:* Drainageways on flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear
*Across-slope shape:* Linear, concave
*Ecological site:* F155XY120FL - Sandy Flatwoods and Hammocks
*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* Yes

## 18—Kaliga muck, frequently ponded, 0 to 1 percent slopes

**Map Unit Setting**

*National map unit symbol:* 2tzw6
*Landscape:* Coastal plains
*Elevation:* 0 to 130 feet
*Mean annual precipitation:* 44 to 55 inches
*Mean annual air temperature:* 70 to 77 degrees F
*Frost-free period:* 350 to 365 days
*Farmland classification:* Farmland of unique importance

**Map Unit Composition**

*Kaliga and similar soils:* 80 percent
*Minor components:* 20 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Kaliga**

**Setting**

*Landscape:* Coastal plains
*Landform:* Depressions on flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, dip, talf
*Down-slope shape:* Linear, concave
*Across-slope shape:* Linear, concave
*Parent material:* Herbaceous organic material over loamy marine deposits

**Typical profile**

*Oa - 0 to 25 inches:* muck
*C1 - 25 to 35 inches:* fine sandy loam
*C2 - 35 to 60 inches:* sandy clay loam
*C3 - 60 to 80 inches:* sandy clay loam

**Properties and qualities**

*Slope:* 0 to 1 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Very poorly drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)
*Depth to water table:* About 0 inches
*Frequency of flooding:* None
*Frequency of ponding:* Frequent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Very high (about 15.3 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 7w
*Hydrologic Soil Group:* C/D
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Forage suitability group:* Organic soils in depressions and on flood plains (G155XB645FL)
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Minor Components**

**Samsula**

*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Chobee**

*Percent of map unit:* 4 percent
*Landscape:* Coastal plains
*Landform:* Depressions on flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear, concave
*Across-slope shape:* Concave, linear
*Ecological site:* R155XY090FL - Loamy and Clayey Freshwater Isolated Marshes and Swamps

*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Tequesta**

*Percent of map unit:* 4 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R156BY010FL), Organic soils in depressions and on flood plains (G156AC645FL)
*Hydric soil rating:* Yes

**Felda**

*Percent of map unit:* 4 percent
*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces, Depressions on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear
*Across-slope shape:* Linear, concave
*Ecological site:* F155XY130FL - Sandy over Loamy Flatwoods and Hammocks
*Other vegetative classification:* Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
*Hydric soil rating:* Yes

**Placid**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Drainageways on marine terraces, Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
*Hydric soil rating:* Yes

## 20—Samsula muck, frequently ponded, 0 to 1 percent slopes

**Map Unit Setting**

*National map unit symbol:* 2tzw9
*Landscape:* Coastal plains
*Elevation:* 0 to 250 feet
*Mean annual precipitation:* 44 to 63 inches

*Mean annual air temperature:* 68 to 77 degrees F
*Frost-free period:* 335 to 365 days
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Samsula and similar soils:* 85 percent
*Minor components:* 15 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Samsula**

**Setting**

*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Parent material:* Herbaceous organic material over sandy marine deposits

**Typical profile**

*Oa1 - 0 to 24 inches:* muck
*Oa2 - 24 to 32 inches:* muck
*Cg1 - 32 to 35 inches:* sand
*Cg2 - 35 to 44 inches:* sand
*Cg3 - 44 to 80 inches:* sand

**Properties and qualities**

*Slope:* 0 to 1 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Very poorly drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)
*Depth to water table:* About 0 inches
*Frequency of flooding:* None
*Frequency of ponding:* Frequent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Very high (about 13.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 7w
*Hydrologic Soil Group:* A/D
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Forage suitability group:* Organic soils in depressions and on flood plains (G155XB645FL)
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Minor Components**

**Myakka**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains

*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Linear, concave
*Across-slope shape:* Linear, concave
*Ecological site:* R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
*Hydric soil rating:* Yes

**Kaliga**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Depressions on flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, dip, talf
*Down-slope shape:* Linear, concave
*Across-slope shape:* Linear, concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Basinger**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave, linear
*Across-slope shape:* Concave, linear
*Ecological site:* R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* Yes

**Anclote**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Convex, concave
*Across-slope shape:* Linear, concave
*Ecological site:* R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
*Hydric soil rating:* Yes

**Floridana**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave, linear

*Across-slope shape:* Concave, linear
*Ecological site:* R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL)
*Hydric soil rating:* Yes

**Sanibel**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Linear, concave
*Across-slope shape:* Concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

## 21—Hontoon muck, frequently ponded, 0 to 1 percent slopes

**Map Unit Setting**

*National map unit symbol:* 2vbpg
*Landscape:* Coastal plains
*Elevation:* 0 to 250 feet
*Mean annual precipitation:* 43 to 63 inches
*Mean annual air temperature:* 68 to 77 degrees F
*Frost-free period:* 300 to 365 days
*Farmland classification:* Farmland of unique importance

**Map Unit Composition**

*Hontoon and similar soils:* 85 percent
*Minor components:* 15 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Hontoon**

**Setting**

*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Parent material:* Herbaceous organic material

**Typical profile**

*Oa - 0 to 75 inches:* muck
*AC - 75 to 80 inches:* sandy loam

**Properties and qualities**

*Slope:* 0 to 1 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Very poorly drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)
*Depth to water table:* About 0 inches
*Frequency of flooding:* None
*Frequency of ponding:* Frequent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Very high (about 23.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 7w
*Hydrologic Soil Group:* A/D
*Ecological site:* F154XA014FL - Histic Wetland Depressions
*Forage suitability group:* Organic soils in depressions and on flood plains (G154XB645FL)
*Other vegetative classification:* Organic soils in depressions and on flood plains (G154XB645FL), Freshwater Marshes and Ponds (R154XY010FL)
*Hydric soil rating:* Yes

**Minor Components**

**Hontoon, drained**

*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* F154XA014FL - Histic Wetland Depressions
*Other vegetative classification:* Freshwater Marshes and Ponds (R154XY010FL), Organic soils in depressions and on flood plains (G154XB645FL)
*Hydric soil rating:* Yes

**Samsula**

*Percent of map unit:* 5 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* F154XA014FL - Histic Wetland Depressions
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Placid**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Drainageways on marine terraces, Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip

*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* F154XA015FL - Mineral Depressional Wetlands
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
*Hydric soil rating:* Yes

**Basinger**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave, linear
*Across-slope shape:* Concave, linear
*Ecological site:* F154XA015FL - Mineral Depressional Wetlands
*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* Yes

## 26—Tequesta muck, frequently ponded, 0 to 1 percent slopes

### Map Unit Setting

*National map unit symbol:* 2tzwx
*Landscape:* Coastal plains
*Elevation:* 0 to 40 feet
*Mean annual precipitation:* 47 to 61 inches
*Mean annual air temperature:* 70 to 77 degrees F
*Frost-free period:* 360 to 365 days
*Farmland classification:* Farmland of unique importance

### Map Unit Composition

*Tequesta and similar soils:* 87 percent
*Minor components:* 13 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Tequesta

#### Setting

*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Parent material:* Herbaceous organic material over sandy and loamy marine deposits

#### Typical profile

*Oa - 0 to 12 inches:* muck
*A - 12 to 25 inches:* fine sand

*Eg - 25 to 44 inches:* fine sand
*Btg/E - 44 to 56 inches:* fine sandy loam
*Btg - 56 to 72 inches:* fine sandy loam
*2Ck - 72 to 80 inches:* sand

**Properties and qualities**

*Slope:* 0 to 1 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Very poorly drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 5.95 in/hr)
*Depth to water table:* About 0 inches
*Frequency of flooding:* None
*Frequency of ponding:* Frequent
*Calcium carbonate, maximum content:* 4 percent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* High (about 9.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 7w
*Hydrologic Soil Group:* A/D
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Forage suitability group:* Organic soils in depressions and on flood plains (G156AC645FL)
*Other vegetative classification:* Freshwater Marshes and Ponds (R156BY010FL), Organic soils in depressions and on flood plains (G156AC645FL)
*Hydric soil rating:* Yes

**Minor Components**

**Basinger**

*Percent of map unit:* 4 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave, linear
*Across-slope shape:* Concave, linear
*Ecological site:* R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* Yes

**Holopaw**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Flats on marine terraces, Drainageways on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Convex, linear
*Across-slope shape:* Linear, concave
*Ecological site:* R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

*Other vegetative classification:* Slough (R155XY011FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* Yes

**Sanibel**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Linear, concave
*Across-slope shape:* Concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Kaliga**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Depressions on flatwoods on marine terraces
*Landform position (three-dimensional):* Tread, talf, dip
*Down-slope shape:* Linear, concave
*Across-slope shape:* Concave, linear
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

## 35—Sanibel muck, frequently ponded, 0 to 1 percent slopes

**Map Unit Setting**

*National map unit symbol:* 30c6c
*Landscape:* Coastal plains
*Elevation:* 20 to 130 feet
*Mean annual precipitation:* 47 to 55 inches
*Mean annual air temperature:* 68 to 77 degrees F
*Frost-free period:* 277 to 307 days
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Sanibel and similar soils:* 85 percent
*Minor components:* 15 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Sanibel**

**Setting**

*Landscape:* Coastal plains

*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Linear, concave
*Across-slope shape:* Linear, concave
*Parent material:* Thin organic material over sandy marine deposits

**Typical profile**

*Oa - 0 to 7 inches:* muck
*A - 7 to 15 inches:* mucky fine sand
*Cg - 15 to 80 inches:* sand

**Properties and qualities**

*Slope:* 0 to 1 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Very poorly drained
*Capacity of the most limiting layer to transmit water (Ksat):* Very high (19.98 to 39.96 in/hr)
*Depth to water table:* About 0 inches
*Frequency of flooding:* None
*Frequency of ponding:* Frequent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 1.4
*Available water supply, 0 to 60 inches:* Low (about 4.9 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 3w
*Hydrologic Soil Group:* A/D
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Forage suitability group:* Organic soils in depressions and on flood plains (G155XB645FL)
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Minor Components**

**Samsula**

*Percent of map unit:* 6 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Basinger, ponded**

*Percent of map unit:* 4 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Linear, concave

*Across-slope shape:* Linear, concave
*Ecological site:* R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* Yes

**Kaliga**

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Linear, concave
*Across-slope shape:* Linear, concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

**Lauderhill, drained**

*Percent of map unit:* 1 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Organic soils in depressions and on flood plains (G156AC645FL)
*Hydric soil rating:* Yes

**Okeelanta, ponded**

*Percent of map unit:* 1 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Tread, dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
*Other vegetative classification:* Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
*Hydric soil rating:* Yes

## 45—Paola-Basinger sands, rolling

**Map Unit Setting**

*National map unit symbol:* 1jfx6

*Landscape:* Coastal plains
*Elevation:* 10 to 150 feet
*Mean annual precipitation:* 47 to 55 inches
*Mean annual air temperature:* 68 to 75 degrees F
*Frost-free period:* 277 to 307 days
*Farmland classification:* Farmland of unique importance

**Map Unit Composition**

*Paola and similar soils:* 67 percent
*Basinger and similar soils:* 20 percent
*Minor components:* 13 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Paola**

**Setting**

*Landscape:* Coastal plains
*Landform:* Knolls on marine terraces, Ridges on marine terraces
*Landform position (three-dimensional):* Interfluve, side slope
*Down-slope shape:* Convex
*Across-slope shape:* Linear
*Parent material:* Sandy marine deposits

**Typical profile**

*A - 0 to 7 inches:* sand
*E - 7 to 17 inches:* sand
*Bw - 17 to 42 inches:* sand
*C - 42 to 80 inches:* sand

**Properties and qualities**

*Slope:* 0 to 12 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Excessively drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* Very high (19.98 to 39.96 in/hr)
*Depth to water table:* More than 80 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Very low (about 2.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 7s
*Hydrologic Soil Group:* A
*Ecological site:* F154XX002FL - Xeric Bicolor Sandy Uplands
*Forage suitability group:* Sandy soils on strongly sloping to steep side slopes of xeric uplands (G155XB113FL)
*Other vegetative classification:* Sandy soils on strongly sloping to steep side slopes of xeric uplands (G155XB113FL)
*Hydric soil rating:* No

## Description of Basinger

### Setting

*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Parent material:* Sandy marine deposits

### Typical profile

*A - 0 to 6 inches:* fine sand
*E - 6 to 21 inches:* fine sand
*Bh/E - 21 to 52 inches:* fine sand
*C - 52 to 62 inches:* fine sand
*C - 62 to 80 inches:* loamy fine sand

### Properties and qualities

*Slope:* 0 to 2 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Very poorly drained
*Runoff class:* Negligible
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 5.95 in/hr)
*Depth to water table:* About 0 inches
*Frequency of flooding:* None
*Frequency of ponding:* Frequent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Sodium adsorption ratio, maximum:* 4.0
*Available water supply, 0 to 60 inches:* Moderate (about 6.3 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 7w
*Hydrologic Soil Group:* A/D
*Ecological site:* F154XA015FL - Mineral Depressional Wetlands
*Forage suitability group:* Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
*Hydric soil rating:* Yes

## Minor Components

### Astatula

*Percent of map unit:* 3 percent
*Landscape:* Coastal plains
*Landform:* Hills on marine terraces, Ridges on marine terraces
*Landform position (three-dimensional):* Interfluve, side slope
*Down-slope shape:* Convex
*Across-slope shape:* Convex
*Ecological site:* R154XX001FL - Yellow Sands Xeric Uplands
*Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G155XB111FL)
*Hydric soil rating:* No

**St. lucie**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Knolls on marine terraces, Ridges on marine terraces
*Landform position (three-dimensional):* Interfluve, side slope
*Down-slope shape:* Convex
*Across-slope shape:* Linear
*Ecological site:* F154XA006FL - Dry White Sand Scrubs
*Other vegetative classification:* Sandy soils on ridges and dunes of xeric uplands (G155XB111FL)
*Hydric soil rating:* No

**Myakka**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Flatwoods on marine terraces
*Landform position (three-dimensional):* Talf
*Down-slope shape:* Convex
*Across-slope shape:* Linear
*Ecological site:* F154XA007FL - Moist Sandy Wet-Mesic Flatwoods
*Other vegetative classification:* Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
*Hydric soil rating:* No

**Satellite**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Flats on marine terraces, Rises on marine terraces
*Landform position (three-dimensional):* Rise
*Down-slope shape:* Convex
*Across-slope shape:* Linear
*Ecological site:* F154XA008FL - Moist Sandy Scrubby Flatwoods
*Other vegetative classification:* Sandy soils on rises and knolls of mesic uplands (G155XB131FL)
*Hydric soil rating:* No

**Orsino**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Knolls on marine terraces, Ridges on marine terraces
*Landform position (three-dimensional):* Interfluve
*Down-slope shape:* Convex
*Across-slope shape:* Linear
*Ecological site:* F154XX002FL - Xeric Bicolor Sandy Uplands
*Other vegetative classification:* Sandy soils on rises, knolls, and ridges of mesic uplands (G155XB121FL)
*Hydric soil rating:* No

**Placid, depressional**

*Percent of map unit:* 2 percent
*Landscape:* Coastal plains
*Landform:* Depressions on marine terraces
*Landform position (three-dimensional):* Dip
*Down-slope shape:* Concave
*Across-slope shape:* Concave
*Ecological site:* F154XA015FL - Mineral Depressional Wetlands

*Other vegetative classification:* Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
*Hydric soil rating:* Yes

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**Summary of Geotechnical Parameters for Dry Pond Design**
**SR 70 from US 27 to CR 29 (Segment 13)**
**Highlands County, Florida**
**FPID No. 414506-4-32-01**
**Tierra Project No: 6511-24-002**

| SMF Site Name | Boring Name | Boring Location[1] FL State Plane East | | Estimated SHGWT[3] | | Field/Lab Permeability Test Results | | | | | Confining Layer[5] | | Estimated Fillable Porosity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Northing (feet) | Easting (feet) | Depth (feet) | Elevation (feet, NAVD 88) | Approximate Test/Sample Depth[2] (feet) | Approximate Test/Sample Elevation (feet, NAVD 88) | Soil Stratum Tested | Saturated Horizontal Hydraulic Conductivity[4] (feet/day) | Saturated Vertical Hydraulic Conductivity[4] (feet/day) | Approximate Depth[2] (feet) | Approximate Elevation (feet, NAVD 88) | |
| SMF 6 | PBA13-SMF6-1 | 1044734 | 552981 | 2.5 | 117.3 | 2.0 | 117.8 | 1 | 32 | 32 | --- | --- | 0.25 |
| | PBA13-SMF6-2 | 1044772 | 553100 | 2.5 | 117.2 | 2.0 | 118.2 | 1 | 47 | 47 | --- | --- | |
| | PBA13-SMF6-3 | 1044674 | 553270 | 2.5 | 117.3 | 2.5 - 4.0 | 117.3 - 115.8 | 1 | 23 | 23 | --- | --- | |
| | PBS13-SMF6-1 | 1045280 | 878060 | --- | --- | 8.0 - 12.0 | 111.8 - 107.8 | 1 | 44 | 44 | 35.0 | 84.8 | |
| | PBS13-SMF6-2 | 1045344 | 878191 | --- | --- | 6.0 - 12.0 | 113.7 - 107.7 | 1 | 32 | 32 | 40.0 | 79.7 | |
| SMF 7 | PBA13-SMF7-1 | 1045214 | 556482 | 9.0 | 104.4 | 9.0 - 12.0 | 104.4 - 101.4 | 1 | 43 | 43 | --- | --- | 0.25 |
| | PBA13-SMF7-2 | 1045272 | 556625 | 15.5 | 102.6 | 16.0 - 18.0 | 102.1 - 100.1 | 1 | 40 | 40 | --- | --- | |
| | PBA13-SMF7-3 | 1045167 | 556818 | 4.5 | 101.0 | 4.0 - 6.0 | 101.5 - 99.5 | 1 | 46 | 46 | --- | --- | |
| | PBA13-SMF7-4 | 1045202 | 556950 | 7.5 | 101.1 | 9.0 - 12.0 | 99.6 - 96.6 | 1 | 36 | 36 | --- | --- | |
| | PBA13-SMF7-5 | 1045090 | 556891 | 4.5 | 101.4 | 4.0 | 101.9 | 1 | 39 | 39 | --- | --- | |
| | PBS13-SMF7-1 | 1045547 | 881452 | --- | --- | 8.0 - 14.0 | 104.9 - 98.9 | 1 | 43 | 43 | 35.0 | 77.9 | |
| | PBS13-SMF7-2 | 1045607 | 881908 | --- | --- | 10.0 - 16.0 | 96.6 - 90.6 | 1 | 29 | 29 | 35.0 | 71.6 | |

[1] Boring locations and elevations of borings labeled "PBA" were provided by the Project Surveyor. Borings labeled "PBS" were located in the field by Tierra using a hand-held Garmin non-survey grade global positioning system (GPS) device with a reported accuracy of +/- 10 feet. Elevations for the "PBS" borings were determined using the approximiate coordinates obtained by Tierra in conjunction with project design files and should be considered approximate.

[2] Depth below existing grades at time of field exploration.

[3] Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Highlands County, Florida USDA Soil Survey information and past experience with similar soil conditions.

**[4] The Saturated Hydraulic Conductivity values presented above are not factored. The design engineer should apply an appropriate factor of safety.**

[5] Based on Standard Penetration Test (SPT) borings completed to date.

**Summary of SMF/FPC Alternatives Seasonal High Groundwater Table Estimates**
**SR 70 from US 27 to CR 29 (Segment 13)**
**Highlands County, Florida**
**FPID No. 414506-4-52-01**
**Tierra Project No: 6511-24-002**

| SMF/FPC Site Name | Boring Name | Boring Location[1] | | | | Surveyed Ground Elevation[1] (feet, NAVD 88) | Boring Depth[2] (feet) | Measured Groundwater Table | | | USDA Soil Survey | | Estimated SHGWT[4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FL State Plane East | | C/L Const. SR 70 | | | | Date Recorded | Depth[2] (feet) | Elevation (feet, NAVD 88) | Map Unit No. | Estimated SHGWT[3] Depth (feet) | Depth (feet) | Elevation (feet, NAVD 88) |
| | | Northing (feet) | Easting (feet) | Station (feet) | Offset (feet) | | | | | | | | | |
| SMF 1301B | PBA-SMF1301B-1 | 1045168 | 552519 | 1298+29 | 175 LT. | 120.4 | 5.5 | 2/21/2025 | 4.2 | 116.2 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.9 |
| | PBA-SMF1301B-2 | 1045236 | 552737 | 1300+48 | 245 LT. | 120.0 | 5.0 | 2/21/2025 | 4.0 | 116.0 | 45 | +2.0-0.0/>6.0 | 2.0 | 118.0 |
| FPC 1301A | PBA-SMF1301B-2 | 1045236 | 552737 | 1300+48 | 245 LT. | 120.0 | 5.0 | 2/21/2025 | 4.0 | 116.0 | 45 | +2.0-0.0/>6.0 | 2.0 | 118.0 |
| | PBA-FPC1301A-1 | 1045213 | 552951 | 1302+62 | 224 LT. | 119.2 | 4.5 | 2/21/2025 | 3.6 | 115.6 | 45 | +2.0-0.0/>6.0 | 1.5 | 117.7 |
| FPC 1301B | PBA-FPC1301B-1 | 1044800 | 552878 | 1301+91 | 190 RT. | 122.3 | 6.5 | 2/22/2025 | 5.8 | 116.5 | 45 | +2.0-0.0/>6.0 | 4.5 | 117.8 |
| | PBA-FPC1301B-2 | 1044632 | 552709 | 1300+24 | 359 RT. | 118.9 | 3.5 | 2/23/2025 | 2.0 | 116.9 | 45 | +2.0-0.0/>6.0 | 0.5 | 118.4 |
| SMF 1301C | PBA-FPC1301A-1 | 1045213 | 552951 | 1302+62 | 224 LT. | 119.2 | 4.5 | 2/21/2025 | 3.6 | 115.6 | 45 | +2.0-0.0/>6.0 | 1.5 | 117.7 |
| | PBA-SMF1301C-1 | 1045203 | 553188 | 1304+99 | 215 LT. | 120.1 | 6.0 | 2/21/2025 | 4.8 | 115.3 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.6 |
| SMF 1301A | PBA13-SMF6-1 | 1044734 | 552981 | 1302+95 | 256 RT. | 119.8 | 6.0 | 6/26/2024 | 4.2 | 115.6 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.3 |
| | PBA13-SMF6-2 | 1044772 | 553100 | 1304+13 | 216 RT. | 119.7 | 6.0 | 6/26/2024 | 4.4 | 115.3 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.2 |
| | PBA13-SMF6-3 | 1044674 | 553270 | 1305+85 | 314 RT. | 119.8 | 6.5 | 6/26/2024 | 5 | 115.0 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.3 |
| FPC 1303A | PBA-FPC1303A-1 | 1044763 | 554799 | 1321+13 | 215 RT. | 117.0 | 7.5 | 2/21/2025 | 5 | 111.8 | 45 | +2.0-0.0/>6.0 | 2.5 | 114.5 |
| FPC1306A | PBA-FPC1306A-1 | 1044776 | 556064 | 1333+78 | 194 RT. | 113.0 | 7.5 | 2/21/2025 | 7 | 106.4 | 45 | +2.0-0.0/>6.0 | 4.5 | 108.5 |
| SMF 1302A | PBA13-SMF7-1 | 1045214 | 556482 | 1337+93 | 246 LT. | 113.4 | 13.0 | 7/2/2024 | 12.2 | 101.2 | 45 | +2.0-0.0/>6.0 | 9.0 | 104.4 |
| | PBA13-SMF7-2 | 1045272 | 556625 | 1339+36 | 305 LT. | 118.1 | 18.0 | 7/2/2024 | GNE[5] | <100.1 | 45 | +2.0-0.0/>6.0 | 15.5 | 102.6 |
| | PBA13-SMF7-3 | 1045167 | 556818 | 1341+29 | 201 LT. | 105.5 | 8.0 | 7/2/2024 | 7.3 | 98.2 | 45 | +2.0-0.0/>6.0 | 4.5 | 101.0 |
| | PBA13-SMF7-4 | 1045202 | 556950 | 1342+61 | 237 LT. | 108.6 | 12.5 | 7/1/2024 | 11.7 | 96.9 | 45 | +2.0-0.0/>6.0 | 7.5 | 101.1 |
| | PBA13-SMF7-5 | 1045090 | 556891 | 1342+03 | 124 LT. | 105.9 | 8.5 | 7/1/2024 | 8.1 | 97.8 | 45 | +2.0-0.0/>6.0 | 4.5 | 101.4 |
| SMF 1302C | PBA-SMF1302C-1 | 1044712 | 557159 | 1344+73 | 252 RT. | 106.4 | 10.5 | 2/19/2025 | 8.80 | 97.6 | 45 | +2.0-0.0/>6.0 | 6.5 | 99.9 |
| | PBA-SMF1302C-2 | 1044703 | 557558 | 1348+72 | 259 RT. | 107.8 | 15.0 | 2/19/2025 | 14.00 | 93.8 | 45 | +2.0-0.0/>6.0 | 12.5 | 95.3 |
| SMF 1302B | SH13-410R | 1044947 | 557784 | 1350+97 | 14 RT. | 110.6 | 20.5 | 1/9/2024 | 20.1 | 90.5 | 45 | +2.0-0.0/>6.0 | 17.0 | 93.6 |
| | PBA-SMF1302B-2 | 1045198 | 558041 | 1353+52 | 239 LT. | 109.4 | 19.5 | 2/19/2025 | GNE | <89.9 | 45 | +2.0-0.0/>6.0 | 18.0 | 91.4 |
| FPC 1308B | PBA-FPC1308B-1 | 1044536 | 558278 | 1355+93 | 421 RT. | 92.7 | 7.0 | 2/16/2025 | 4.30 | 88.4 | 45 | +2.0-0.0/>6.0 | 2.0 | 90.7 |
| | SH13-415R | 1044918 | 558183 | 1354+96 | 41 RT. | 102.7 | 14.5 | 1/9/2024 | 13.8 | 88.9 | 45 | +2.0-0.0/>6.0 | 10.0 | 92.7 |
| | SH13-420R | 1044915 | 558784 | 1360+97 | 40 RT. | 97.2 | 13.0 | 1/9/2024 | 12.3 | 84.9 | 45 | +2.0-0.0/>6.0 | 10.5 | 86.7 |

[1] Boring locations and ground elevations were provided by the project surveyor.

[2] Depth below existing grades at time of field exploration.

[3] Seasonal high groundwater table depth estimated based on the Highlands County, Florida USDA Soil Survey information.

[4] Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Highlands County, Florida USDA Soil Survey information and past experience with similar soil conditions.

[5] GNE: Groundwater Not Encountered

**Summary of SMF/FPC Alternatives Seasonal High Groundwater Table Estimates**
**SR 70 from US 27 to CR 29 (Segment 13)**
**Highlands County, Florida**
**FPID No. 414506-4-52-01**
**Tierra Project No: 6511-24-002**

| SMF/FPC Site Name | Boring Name | Boring Location[1] | | | | Surveyed Ground Elevation[1] (feet, NAVD 88) | Boring Depth[2] (feet) | Measured Groundwater Table | | | USDA Soil Survey | | Estimated SHGWT[4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FL State Plane East | | C/L Const. SR 70 | | | | Date Recorded | Depth[2] (feet) | Elevation (feet, NAVD 88) | Map Unit No. | Estimated SHGWT[3] Depth (feet) | Depth (feet) | Elevation (feet, NAVD 88) |
| | | Northing (feet) | Easting (feet) | Station (feet) | Offset (feet) | | | | | | | | | |
| FPC 12 | PBA13-FPC12-1 | 1044816 | 559328 | 1366+40 | 140 RT. | 101.5 | 21.0 | 6/17/2024 | GNE[5] | <80.5 | 45 | +2.0-0.0/>6.0 | 18.0 | 83.5 |
| | PBA13-FPC12-2 | 1044589 | 559331 | 1366+43 | 367 RT. | 103.1 | 21.0 | 6/17/2024 | GNE[5] | <82.1 | 45 | +2.0-0.0/>6.0 | 20.0 | 83.1 |
| | PBA13-FPC12-3 | 1044764 | 559496 | 1368+08 | 192 RT. | 109.0 | 21.0 | 6/18/2024 | GNE[5] | <88.0 | 45 | +2.0-0.0/>6.0 | >21.0 | <88.0 |
| | PBA13-FPC12-4 | 1044559 | 559497 | 1368+09 | 397 RT. | 96.2 | 19.5 | 6/18/2024 | 18.8 | 77.4 | 45 | +2.0-0.0/>6.0 | 17.0 | 79.2 |
| FPC 1309A/ FPC 1390B | SH13-430R | 1044954 | 559844 | 1371+56 | 2 RT. | 96.9 | 21.0 | 1/10/2024 | 20.3 | 76.6 | 45 | +2.0-0.0/>6.0 | 18.0 | 78.9 |
| | SH13-435R | 1044937 | 560264 | 1375+77 | 16 RT. | 83.0 | 10.5 | 1/10/2024 | 9.5 | 73.5 | 45 | +2.0-0.0/>6.0 | 7.5 | 75.5 |
| | PBA-FPC1309A | 1044692 | 559913 | 1372+25 | 264 RT. | 105.7 | 20.0 | 2/20/2025 | GNE[5] | <85.7 | 45 | +2.0-0.0/>6.0 | >20.0 | <85.7 |
| SMF 1303D | PBA-SMF1303D-1 | 1045044 | 560561 | 1378+71 | 97 LT. | 81.4 | 12.0 | 2/20/2025 | 11.3 | 70.1 | 45 | +2.0-0.0/>6.0 | 9.0 | 72.4 |
| SMF 1303C | PBA-SMF1303C-1 | 1044571 | 563511 | 1408+23 | 345 RT. | 44.3 | 3.5 | 2/20/2025 | 2.1 | 42.2 | 26 | +2.0-0.0 | 0.5 | 43.8 |
| | PBA-SMF1303C-2 | 1044485 | 563801 | 1411+13 | 432 RT. | 43.8 | 9.5 | 2/20/2025 | 2.9 | 40.9 | 13 | 0.3-1.5 | 0.5 | 43.3 |
| SMF 1303A | PBA13-SMF8-9A-1 | 1044819 | 564106 | 1414+19 | 99 RT. | 44.2 | 4.0 | 6/20/2024 | 2.2 | 42.0 | 13 | 0.3-1.5 | 1.0 | 43.2 |
| | PBA13-SMF8-9A-2 | 1044566 | 564128 | 1414+40 | 351 RT. | 44.2 | 5.0 | 6/20/2024 | 2.0 | 42.2 | 13 | 0.3-1.5 | 1.0 | 43.2 |
| | PBA13-SMF8-9A-3 | 1044808 | 564452 | 1417+65 | 111 RT. | 44.5 | 5.0 | 6/20/2024 | 2.3 | 42.2 | 13 | 0.3-1.5 | 1.0 | 43.5 |
| | PBA13-SMF8-9A-4 | 1044548 | 564449 | 1417+60 | 372 RT. | 44.6 | 5.0 | 6/20/2024 | 2.7 | 41.9 | 13 | 0.3-1.5 | 1.5 | 43.1 |
| SMF 1303B | PBA-SMF1303B-1 | 1045288 | 564235 | 1415+49 | 369 LT. | 42.8 | 8.3 | 2/21/2025 | 3.9 | 38.9 | 13 | 0.3-1.5 | 1.0 | 41.8 |
| | PBA-SMF1303B-2 | 1045282 | 564625 | 1419+39 | 362 LT. | 43.5 | 10.3 | 2/21/2025 | 5.5 | 38.0 | 13 | 0.3-1.5 | 1.5 | 42.0 |

[1] Boring locations and ground elevations were provided by the project surveyor.

[2] Depth below existing grades at time of field exploration.

[3] Seasonal high groundwater table depth estimated based on the Highlands County, Florida USDA Soil Survey information.

[4] Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Highlands County, Florida USDA Soil Survey information and past experience with similar soil conditions.

[5] GNE: Groundwater Not Encountered

**Summary of Roadway Seasonal High Groundwater Table Estimates**
**SR 70 from US 27 to CR 29 (Segment 13)**
**Highlands County, Florida**
**FPID No. 414506-4-32-01**
**Tierra Project No: 6511-24-002**

| Boring Name | Boring Location[1] FL State Plane East | | Surveyed Ground Elevation[1] (feet, NAVD 88) | Boring Depth[2] (feet) | Measured Groundwater Table | | | USDA Soil Survey | | Estimated SHGWT[4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Northing (feet) | Easting (feet) | | | Date Recorded | Depth[2] (feet) | Elevation (feet, NAVD 88) | Map Symbol | Estimated SHGWT[3] Depth (feet) | Depth[2] (feet) | Elevation (feet, NAVD 88) |
| **US 27** | | | | | | | | | | | |
| SH-US27-1 | 1044103 | 549248 | 136.0 | 7.0 | 1/21/2024 | GNE[5] | <129.0 | 1 | >6.0 | >7.0 | <129.0 |
| SH-US27-2 | 1044539 | 549426 | 132.9 | 7.0 | 1/21/2024 | GNE[5] | <125.9 | 1 | >6.0 | >7.0 | <125.9 |
| SH-US27-3 | 1045578 | 549245 | 132.0 | 7.0 | 1/21/2024 | GNE[5] | <125.0 | 1/9 | >6.0 | >7.0 | <125.0 |
| SH-US27-4 | 1046038 | 549419 | 130.0 | 7.0 | 1/21/2024 | GNE[5] | <123.0 | 1/9 | >6.0 | >7.0 | <123.0 |
| **SR 70** | | | | | | | | | | | |
| SH13-330L | 1045164 | 549795 | 127.0 | 8.0 | 1/11/2024 | 7.3 | 119.7 | 9 | >6.0 | 5.0 | 122.0 |
| SH13-335R | 1044931 | 550273 | 124.2 | 5.5 | 1/9/2024 | 5.0 | 119.2 | 9/45 | +2.0-0.0/>6.0 | 3.5 | 120.7 |
| SH13-340R | 1044984 | 550778 | 123.1 | 5.0 | 1/9/2024 | 4.3 | 118.8 | 45 | +2.0-0.0/>6.0 | 2.8 | 120.3 |
| SH13-345R | 1044994 | 551283 | 120.9 | 5.0 | 1/8/2024 | 2.6 | 118.3 | 45 | +2.0-0.0/>6.0 | 1.0 | 119.9 |
| SH13-350R | 1044974 | 551787 | 122.1 | 5.0 | 1/8/2024 | 4.2 | 117.9 | 45 | +2.0-0.0/>6.0 | 2.5 | 119.6 |
| SH13-355R | 1044970 | 552280 | 123.6 | 5.5 | 1/9/2024 | 5.2 | 118.4 | 45 | +2.0-0.0/>6.0 | 3.8 | 119.8 |
| SH13-360R | 1044984 | 552786 | 119.7 | 4.5 | 1/9/2024 | 3.5 | 116.2 | 45 | +2.0-0.0/>6.0 | 1.5 | 118.2 |
| SH13-365L | 1045062 | 553280 | 118.6 | 5.0 | 1/11/2024 | 2.4 | 116.2 | 45 | +2.0-0.0/>6.0 | 1.0 | 117.6 |
| SH13-370R | 1044971 | 553763 | 117.9 | 5.0 | 1/9/2024 | 2.6 | 115.3 | 45 | +2.0-0.0/>6.0 | 1.0 | 116.9 |
| SH13-375R | 1044957 | 554280 | 121.6 | 8.0 | 1/9/2024 | 7.5 | 114.1 | 45 | +2.0-0.0/>6.0 | 6.0 | 115.6 |
| SH13-380R | 1044905 | 554750 | 114.1 | 4.0 | 1/9/2024 | 1.5 | 112.6 | 45 | +2.0-0.0/>6.0 | 0.0 | 114.1 |
| SH13-385R | 1044961 | 555272 | 115.6 | 5.5 | 1/9/2024 | 4.8 | 110.8 | 45 | +2.0-0.0/>6.0 | 3.0 | 112.6 |
| SH13-390R | 1044953 | 555793 | 112.5 | 5.0 | 1/9/2024 | 3.9 | 108.6 | 45 | +2.0-0.0/>6.0 | 2.5 | 110.0 |
| SH13-395R | 1044947 | 556287 | 109.7 | 5.0 | 1/9/2024 | 4.0 | 105.7 | 45 | +2.0-0.0/>6.0 | 2.5 | 107.2 |
| SH13-400R | 1044956 | 556789 | 111.2 | 10.5 | 1/9/2024 | 9.5 | 101.7 | 45 | +2.0-0.0/>6.0 | 8.0 | 103.2 |
| SH13-405R | 1044947 | 557292 | 110.6 | 14.5 | 1/9/2024 | 13.9 | 96.7 | 45 | +2.0-0.0/>6.0 | 12.5 | 98.1 |
| SH13-410R | 1044947 | 557784 | 110.6 | 20.5 | 1/9/2024 | 20.1 | 90.5 | 45 | +2.0-0.0/>6.0 | 17.0 | 93.6 |
| SH13-415R | 1044918 | 558183 | 102.7 | 14.5 | 1/9/2024 | 13.8 | 88.9 | 45 | +2.0-0.0/>6.0 | 10.0 | 92.7 |
| SH13-420R | 1044915 | 558784 | 97.2 | 13.0 | 1/9/2024 | 12.3 | 84.9 | 45 | +2.0-0.0/>6.0 | 10.5 | 86.7 |
| SH13-425R | 1044916 | 559287 | 95.2 | 15.0 | 1/10/2024 | 14.0 | 81.2 | 45 | +2.0-0.0/>6.0 | 11.0 | 84.2 |
| SH13-430R | 1044954 | 559844 | 96.9 | 21.0 | 1/10/2024 | 20.3 | 76.6 | 45 | +2.0-0.0/>6.0 | 18.0 | 78.9 |
| SH13-435R | 1044937 | 560264 | 83.0 | 10.5 | 1/10/2024 | 9.5 | 73.5 | 45 | +2.0-0.0/>6.0 | 7.5 | 75.5 |
| SH13-440L | 1045046 | 560809 | 72.1 | 6.0 | 1/11/2024 | 5.3 | 66.8 | 21/45 | +2.0-0.0/>6.0 | 3.5 | 68.6 |

[1] Boring locations and ground elevations were provided by the project surveyor.

[2] Depth below existing grades at time of field exploration.

[3] Seasonal high groundwater table depth estimated based on the Highlands County, Florida USDA Soil Survey information.

[4] Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Highlands County, Florida USDA Soil Survey information and past experience with similar soil conditions.

[5] GNE: Groundwater Not Encountered

[6] ABG: Estimated seasonal high groundwater table is above existing grade. Tierra recommends SHGWT be evaluated by the project biologist based on biological indicators.

**Summary of Roadway Seasonal High Groundwater Table Estimates**
**SR 70 from US 27 to CR 29 (Segment 13)**
**Highlands County, Florida**
**FPID No. 414506-4-32-01**
**Tierra Project No: 6511-24-002**

| Boring Name | Boring Location[1] FL State Plane East | | Surveyed Ground Elevation[1] (feet, NAVD 88) | Boring Depth[2] (feet) | Measured Groundwater Table | | | USDA Soil Survey | | Estimated SHGWT[4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Northing (feet) | Easting (feet) | | | Date Recorded | Depth[2] (feet) | Elevation (feet, NAVD 88) | Map Symbol | Estimated SHGWT[3] Depth (feet) | Depth[2] (feet) | Elevation (feet, NAVD 88) |
| SH13-445R | 1044950 | 561330 | 49.0 | 6.0 | 1/10/2024 | 1.3 | 47.7 | 21 | +2.0-0.0 | ABG[6] | >49.0 |
| SH13-450L | 1045067 | 561775 | 46.2 | 4.0 | 1/11/2024 | 1.9 | 44.3 | 20/21 | +2.0-0.0 | 0.0 | 46.2 |
| SH13-455L | 1045044 | 562322 | 45.6 | 4.0 | 1/11/2024 | 1.8 | 43.8 | 26 | +2.0-0.0 | ABG[6] | >45.6 |
| SH13-460L | 1045057 | 562783 | 44.2 | 3.0 | 1/11/2024 | 0.7 | 43.5 | 26 | +2.0-0.0 | ABG[6] | >44.2 |
| SH13-465L | 1045050 | 563239 | 45.0 | 3.5 | 1/11/2024 | 1.9 | 43.1 | 26 | +2.0-0.0 | 0.5 | 44.5 |
| SH13-470L | 1045050 | 563807 | 45.3 | 5.0 | 1/11/2024 | 3.6 | 41.7 | 13/26 | +2.0-0.0/0.3-1.5 | 1.5 | 43.8 |

[1] Boring locations and ground elevations were provided by the project surveyor.

[2] Depth below existing grades at time of field exploration.

[3] Seasonal high groundwater table depth estimated based on the Highlands County, Florida USDA Soil Survey information.

[4] Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Highlands County, Florida USDA Soil Survey information and past experience with similar soil conditions.

[5] GNE: Groundwater Not Encountered

[6] ABG: Estimated seasonal high groundwater table is above existing grade. Tierra recommends SHGWT be evaluated by the project biologist based on biological indicators.

**Summary of SMF/FPC Alternatives Seasonal High Groundwater Table Estimates**
**SR 70 from US 27 to CR 29 (Segment 13)**
**Highlands County, Florida**
**FPID No. 414506-4-52-01**
**Tierra Project No: 6511-24-002**

| SMF/FPC Site Name | Boring Name | Boring Location[1] FL State Plane East | | Surveyed Ground Elevation[1] (feet, NAVD 88) | Boring Depth[2] (feet) | Measured Groundwater Table | | | USDA Soil Survey | | Estimated SHGWT[4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Northing (feet) | Easting (feet) | | | Date Recorded | Depth[2] (feet) | Elevation (feet, NAVD 88) | Map Unit No. | Estimated SHGWT[3] Depth (feet) | Depth (feet) | Elevation (feet, NAVD 88) |
| SMF 1301B | PBA-SMF1301B-1 | 1045168 | 552519 | 120.4 | 5.5 | 2/21/2025 | 4.2 | 116.2 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.9 |
| | PBA-SMF1301B-2 | 1045236 | 552737 | 120.0 | 5.0 | 2/21/2025 | 4.0 | 116.0 | 45 | +2.0-0.0/>6.0 | 2.0 | 118.0 |
| FPC 1301A | PBA-SMF1301B-2 | 1045236 | 552737 | 120.0 | 5.0 | 2/21/2025 | 4.0 | 116.0 | 45 | +2.0-0.0/>6.0 | 2.0 | 118.0 |
| | PBA-FPC1301A-1 | 1045213 | 552951 | 119.2 | 4.5 | 2/21/2025 | 3.6 | 115.6 | 45 | +2.0-0.0/>6.0 | 1.5 | 117.7 |
| FPC 1301B | PBA-FPC1301B-1 | 1044800 | 552878 | 122.3 | 6.5 | 2/22/2025 | 5.8 | 116.5 | 45 | +2.0-0.0/>6.0 | 4.5 | 117.8 |
| | PBA-FPC1301B-2 | 1044632 | 552709 | 118.9 | 3.5 | 2/23/2025 | 2.0 | 116.9 | 45 | +2.0-0.0/>6.0 | 0.5 | 118.4 |
| SMF 1301C | PBA-FPC1301A-1 | 1045213 | 552951 | 119.2 | 4.5 | 2/21/2025 | 3.6 | 115.6 | 45 | +2.0-0.0/>6.0 | 1.5 | 117.7 |
| | PBA-SMF1301C-1 | 1045203 | 553188 | 120.1 | 6.0 | 2/21/2025 | 4.8 | 115.3 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.6 |
| SMF 1301A | PBA13-SMF6-1 | 1044734 | 552981 | 119.8 | 6.0 | 6/26/2024 | 4.2 | 115.6 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.3 |
| | PBA13-SMF6-2 | 1044772 | 553100 | 119.7 | 6.0 | 6/26/2024 | 4.4 | 115.3 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.2 |
| | PBA13-SMF6-3 | 1044674 | 553270 | 119.8 | 6.5 | 6/26/2024 | 5 | 115.0 | 45 | +2.0-0.0/>6.0 | 2.5 | 117.3 |
| FPC 1303A | PBA-FPC1303A-1 | 1044763 | 554799 | 117.0 | 7.5 | 2/21/2025 | 5 | 111.8 | 45 | +2.0-0.0/>6.0 | 2.5 | 114.5 |
| FPC1306A | PBA-FPC1306A-1 | 1044776 | 556064 | 113.0 | 7.5 | 2/21/2025 | 7 | 106.4 | 45 | +2.0-0.0/>6.0 | 4.5 | 108.5 |
| SMF 1302A | PBA13-SMF7-1 | 1045214 | 556482 | 113.4 | 13.0 | 7/2/2024 | 12.2 | 101.2 | 45 | +2.0-0.0/>6.0 | 9.0 | 104.4 |
| | PBA13-SMF7-2 | 1045272 | 556625 | 118.1 | 18.0 | 7/2/2024 | GNE[5] | <100.1 | 45 | +2.0-0.0/>6.0 | 15.5 | 102.6 |
| | PBA13-SMF7-3 | 1045167 | 556818 | 105.5 | 8.0 | 7/2/2024 | 7.3 | 98.2 | 45 | +2.0-0.0/>6.0 | 4.5 | 101.0 |
| | PBA13-SMF7-4 | 1045202 | 556950 | 108.6 | 12.5 | 7/1/2024 | 11.7 | 96.9 | 45 | +2.0-0.0/>6.0 | 7.5 | 101.1 |
| | PBA13-SMF7-5 | 1045090 | 556891 | 105.9 | 8.5 | 7/1/2024 | 8.1 | 97.8 | 45 | +2.0-0.0/>6.0 | 4.5 | 101.4 |
| SMF 1302C | PBA-SMF1302C-1 | 1044712 | 557159 | 106.4 | 10.5 | 2/19/2025 | 8.80 | 97.6 | 45 | +2.0-0.0/>6.0 | 6.5 | 99.9 |
| | PBA-SMF1302C-2 | 1044703 | 557558 | 107.8 | 15.0 | 2/19/2025 | 14.00 | 93.8 | 45 | +2.0-0.0/>6.0 | 12.5 | 95.3 |
| SMF 1302B | SH13-410R | 1044947 | 557784 | 110.6 | 20.5 | 1/9/2024 | 20.1 | 90.5 | 45 | +2.0-0.0/>6.0 | 17.0 | 93.6 |
| | PBA-SMF1302B-2 | 1045198 | 558041 | 109.4 | 19.5 | 2/19/2025 | GNE | <89.9 | 45 | +2.0-0.0/>6.0 | 18.0 | 91.4 |
| FPC 1308B | PBA-FPC1308B-1 | 1044536 | 558278 | 92.7 | 7.0 | 2/16/2025 | 4.30 | 88.4 | 45 | +2.0-0.0/>6.0 | 2.0 | 90.7 |
| | SH13-415R | 1044918 | 558183 | 102.7 | 14.5 | 1/9/2024 | 13.8 | 88.9 | 45 | +2.0-0.0/>6.0 | 10.0 | 92.7 |
| | SH13-420R | 1044915 | 558784 | 97.2 | 13.0 | 1/9/2024 | 12.3 | 84.9 | 45 | +2.0-0.0/>6.0 | 10.5 | 86.7 |

[1] Boring locations and ground elevations were provided by the project surveyor.
[2] Depth below existing grades at time of field exploration.
[3] Seasonal high groundwater table depth estimated based on the Highlands County, Florida USDA Soil Survey information.
[4] Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Highlands County, Florida USDA Soil Survey information and past experience with similar soil conditions.
[5] GNE: Groundwater Not Encountered

**Summary of SMF/FPC Alternatives Seasonal High Groundwater Table Estimates**
**SR 70 from US 27 to CR 29 (Segment 13)**
**Highlands County, Florida**
**FPID No. 414506-4-52-01**
**Tierra Project No: 6511-24-002**

| SMF/FPC Site Name | Boring Name | Boring Location[1] FL State Plane East | | Surveyed Ground Elevation[1] (feet, NAVD 88) | Boring Depth[2] (feet) | Measured Groundwater Table | | | USDA Soil Survey | | Estimated SHGWT[4] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Northing (feet) | Easting (feet) | | | Date Recorded | Depth[2] (feet) | Elevation (feet, NAVD 88) | Map Unit No. | Estimated SHGWT[3] Depth (feet) | Depth (feet) | Elevation (feet, NAVD 88) |
| FPC 12 | PBA13-FPC12-1 | 1044816 | 559328 | 101.5 | 21.0 | 6/17/2024 | GNE[5] | <80.5 | 45 | +2.0-0.0/>6.0 | 18.0 | 83.5 |
| | PBA13-FPC12-2 | 1044589 | 559331 | 103.1 | 21.0 | 6/17/2024 | GNE[5] | <82.1 | 45 | +2.0-0.0/>6.0 | 20.0 | 83.1 |
| | PBA13-FPC12-3 | 1044764 | 559496 | 109.0 | 21.0 | 6/18/2024 | GNE[5] | <88.0 | 45 | +2.0-0.0/>6.0 | >21.0 | <88.0 |
| | PBA13-FPC12-4 | 1044559 | 559497 | 96.2 | 19.5 | 6/18/2024 | 18.8 | 77.4 | 45 | +2.0-0.0/>6.0 | 17.0 | 79.2 |
| FPC 1309A/ FPC 1390B | SH13-430R | 1044954 | 559844 | 96.9 | 21.0 | 1/10/2024 | 20.3 | 76.6 | 45 | +2.0-0.0/>6.0 | 18.0 | 78.9 |
| | SH13-435R | 1044937 | 560264 | 83.0 | 10.5 | 1/10/2024 | 9.5 | 73.5 | 45 | +2.0-0.0/>6.0 | 7.5 | 75.5 |
| | PBA-FPC1309A | 1044692 | 559913 | 105.7 | 20.0 | 2/20/2025 | GNE[5] | <85.7 | 45 | +2.0-0.0/>6.0 | >20.0 | <85.7 |
| SMF 1303D | PBA-SMF1303D-1 | 1045044 | 560561 | 81.4 | 12.0 | 2/20/2025 | 11.3 | 70.1 | 45 | +2.0-0.0/>6.0 | 9.0 | 72.4 |
| SMF 1303C | PBA-SMF1303C-1 | 1044571 | 563511 | 44.3 | 3.5 | 2/20/2025 | 2.1 | 42.2 | 26 | +2.0-0.0 | 0.5 | 43.8 |
| | PBA-SMF1303C-2 | 1044485 | 563801 | 43.8 | 9.5 | 2/20/2025 | 2.9 | 40.9 | 13 | 0.3-1.5 | 0.5 | 43.3 |
| SMF 1303A | PBA13-SMF8-9A-1 | 1044819 | 564106 | 44.2 | 4.0 | 6/20/2024 | 2.2 | 42.0 | 13 | 0.3-1.5 | 1.0 | 43.2 |
| | PBA13-SMF8-9A-2 | 1044566 | 564128 | 44.2 | 5.0 | 6/20/2024 | 2.0 | 42.2 | 13 | 0.3-1.5 | 1.0 | 43.2 |
| | PBA13-SMF8-9A-3 | 1044808 | 564452 | 44.5 | 5.0 | 6/20/2024 | 2.3 | 42.2 | 13 | 0.3-1.5 | 1.0 | 43.5 |
| | PBA13-SMF8-9A-4 | 1044548 | 564449 | 44.6 | 5.0 | 6/20/2024 | 2.7 | 41.9 | 13 | 0.3-1.5 | 1.5 | 43.1 |
| SMF 1303B | PBA-SMF1303B-1 | 1045288 | 564235 | 42.8 | 8.3 | 2/21/2025 | 3.9 | 38.9 | 13 | 0.3-1.5 | 1.0 | 41.8 |
| | PBA-SMF1303B-2 | 1045282 | 564625 | 43.5 | 10.3 | 2/21/2025 | 5.5 | 38.0 | 13 | 0.3-1.5 | 1.5 | 42.0 |

[1] Boring locations and ground elevations were provided by the project surveyor.
[2] Depth below existing grades at time of field exploration.
[3] Seasonal high groundwater table depth estimated based on the Highlands County, Florida USDA Soil Survey information.
[4] Seasonal high groundwater table depth estimated based on soil stratigraphy, measured groundwater levels from the borings, the Highlands County, Florida USDA Soil Survey information and past experience with similar soil conditions.
[5] GNE: Groundwater Not Encountered

# APPENDIX G

# CORRESPONDENCE

KCA | KISINGER CAMPO & ASSOCIATES

# RECORD OF TELEPHONE CALL

**PARTICIPANTS:** Tony Fromen – KCA, Brent Unger – FDOT Heartland Operations

**COMPANY:**

**PHONE:** 863-273-6326

**DATE/TIME:** 10-27-2016,9:30 am

**PROJECT:** SR 70 – PD&E Highland County

**SUBJECT:** Flooding Complaints Information Request

**NOTES:** I was directed to Brent Unger after first calling Robbyn Jennings (Maintenance Manager/Field Operations). After a short conversation with Mr. Unger about what the job limits were and that we were looking for flooding complaints he told me that there was no reports of flooding along the job limits.

KCA | KISINGER CAMPO & ASSOCIATES

# RECORD OF TELEPHONE CALL

**PARTICIPANTS:** Gabriel Garcia – KCA, Brent Unger – FDOT Heartland Operations

**COMPANY:**

**PHONE:** 863-273-6326

**DATE/TIME:** 05-02-2019, 8:47 am

**PROJECT:** SR 70 – PD&E Highland County

**SUBJECT:** Flooding Complaints Information Request

**NOTES:** I contacted Brent Unger, who we communicated with on October 2016. During the conversation we discussed the job limits and that we were looking for flooding complaints in which he informed me that there have been no flooding reports along the job limits since the last time we contacted him.

**Purpose of Meeting**:
SR 70 Segments 12-13 – Jefferson Avenue to CR 29 (414506-3 & 414506-4)
Highlands County
SWFWMD Pre-Application Meeting

**Date of Meeting**
May 2, 2024, 2:00pm – 4:00pm

**Location**:
Microsoft Teams

**Attendees**:

- FDOT – Brent Setchell, Melody Joyner, Nicole Monies (Melanie Calvo, Atkins for OEM)
- SWFWMD – Al Gagne, Chris Kuzlo
- PGA – Joe Lauk
- HNTB – Matt Dockins, Hong (Sam) Chiu, Gordon Mullen, James Fine, John Burton, John Fowler, Bill Jones

**Attachment:** See presentation slides attached.

## Agenda & Notes

1. Introductions
2. Overview
    a. Strategic Corridors – State Road (SR) 70
        i. Segments 12 and 13 (FPIDs 414506-3 and 414506-4)
        ii. Matt introduced the FDOT's Strategic Corridors program along SR 70 and the purpose and need for the proposed network improvements. Then specific discussion was provided relative to Segments 12 (from Jefferson Avenue east to US 27) and 13 (from US 27 east to County Road 29).
        iii. Sam introduced the three proposed roadway typical sections along the corridor.
3. SWFWMD/SFWMD Interagency Agreement
    a. The project limits crossing the SWFWMD/SFWMD boundaries in two locations, one west of US 27 and one east of US 27.
    b. The Interagency Agreement executed March 24, 2018 delegated the permitting authority for the entire limits of this project to the SWFWMD.
4. Stormwater Management
    a. Water Quality
        i. Sam referenced the prior December 2014 pre-application meeting and provided additional discussion for how the proposed improvements will address the nutrient impaired water bodies by demonstrating net improvement and meet SWFWMD's 150% of presumptive treatment volume for direct discharge to the Placid Lakes Outstanding Florida Water (OFW).
        ii. The Project Development and Environment (PD&E) study is expected to be complete approximately Summer of 2025 and therefore, should fall under the current stormwater rules.
    b. Water Quantity
        i. Sam provided additional discussion that the proposed improvements will address both peak discharge rates (in open basins) and discharge volumes (in closed basins).
    c. Floodplains

i. Part of the project is located within the Lake Placid watershed model. The project will use this watershed model as the best available information. Further evaluation may be necessary to model initial stages and the project specific seasonal high water.
ii. In the area without the watershed model, the Federal Emergency Management Agency (FEMA) map will be reviewed in conjunction with other data sources. The FDOT/Consultant will determine the appropriate 100-Year Base Flood Elevations and compensate for any impacts. Cup-for-cup compensation is the anticipated approach for those areas.

d. SWFWMD did not object to the proposed design criteria and approach discussed.

5. Utility and Environmental Considerations
   a. Utilities
      i. The project is sandwiched between a Florida Power & Light (FP&L) transmission line to the north and Florida Gas Transmission (FGT) pipeline to the south. Both are immediately adjacent to the SR 70 right-of-way and are costly to impact/relocate.
      ii. FP&L is currently in the process of relocating further to the north and enhancing their facilities.
      iii. FDOT is continuing coordination with both entities.
   b. Conservation Lands
      i. Much of the western project portion within Segment 12 is bounded by the Lake Wales Ridge Wildlife and Environmental Area (LWRWEA) and Archbold Biological Station.
      ii. The roadway improvements are evaluating widening to the north, which would impact the LWRWEA. FDOT is coordinating further with the Florida Fish and Wildlife Conservation Commission, Florida Department of Environmental Protection, and applicable state land agencies.
   c. Protected Species
      i. Numerous federal and state listed/protected species are or may be present in the project vicinity. Field surveys are on-going.
      ii. Brent discussed the location/siting rationale for the three proposed wildlife crossings.
      iii. Brent suggested that potential additional land acquisition(s) may be needed specifically for listed/protection species mitigation.
   d. Wetlands
      i. Based on preliminary impact analysis, approximately 18.5 acres of direct and secondary wetland impacts at approximately 8.8 UMAM functional loss units are anticipated for Segment 12.
      ii. Approximately 12.3 acres of direct and secondary wetland impacts at approximately 5.4 UMAM functional loss units are anticipated for Segment 13.
      iii. These impacts have not been field-reviewed with SWFMWD or US Army Corps of Engineers staff and are subject to change.
      iv. Mitigation options are limited within the three watershed basins. Only state credits are available within the Kissimmee Ridge (SWFWMD) and South Kissimmee (SFWMD) basins. State credits are not currently available within the Fisheating Creek basin. SWFWMD will accept state mitigation bank credits.
      v. No federal 404 credits are available in any of the three basins. FDOT expects that the existing banks will not be able to obtain federal credits by the time Segments 12 and 13 may need them prior to construction.
   e. Impacts & Mitigation Approaches
      i. Due to the location and environmentally sensitive nature of the project limits, FDOT is evaluating a variety of potential options.
         1. On-site mitigation is not initially desirable for FDOT, and there are limited options for this within the SR 70 corridor.

2. FDOT is considering a partnering option with a third-party company (i.e., permittee-responsible offsite mitigation within the same basin. This may require 2 separate permits (one for the proposed improvements and one for the mitigation) and could potentially be linked as permit conditions. FDOT would be a co-permittee and have an MOU with a third-party contractor with specific conditions directed to the third-party contractor, who would be responsible for the construction, perpetual operations and maintenance of the mitigation site. FDOT would not want to do annual payments but would prefer to do a lump-sum payment for the third-party to put in escrow.
    a. SWFWMD has recently received direction from FDEP. SWFWMD views this as being comparable to developer permits with excess functional gain in which they modify the excess functional gain permit for each phase of development. FDEP doesn't like this approach. Going forward, off-site mitigation permits will need to specifically identify to which project(s) the excess functional gain applies (i.e., like a bank ledger). SWFWMD has no issues with FDOT doing offsite mitigation, but they urged cautioned for who will be the permittee.
3. Brent discussed a potential option which could include land acquisition, livestock removal and potentially hydrologic improvements to be completed on large portion of acreage adjacent to the Platt Branch Wildlife and Environmental Area (FDOT's Platt Branch species mitigation bank) and US 27. FDOT could acquire the existing gap between both areas, remove cattle to gain functional lift to local wetlands and water quality, and add a second wildlife crossing at US 27. FDOT understands that sufficient functional lift may exist due to the large amount of acreage involved. The mitigation for several segments of the SR 70 could likely be tied to this mitigation site.
    a. SWFWMD noted that this site would be within the Fisheating Creek watershed (within the SFWMD's boundaries). SWFWMD would allow this, but the FDOT would have to address the functional loss within the impacted Kissimmee Ridge basin, and potential cumulative impacts. SWFWMD may require a 1:1 (acreage) mitigation within the same basin (while other functional gain could occur out of basin). SWFWMD stated that FDOT may need to propose multiple different strategies to avoid cumulative impacts.
    b. SWFWMD asked whether FDOT has had to address the USACE proximity (multiplication) factor for mitigation based on distance from the impacted hydrologic use code (HUC) basin (multiplier based on the # of basins away from subject basin). Brent indicated that District One's prior experience with this didn't work out, but not due to the proximity factor tool.
4. Brent discussed potential Cracker Hammock and Skipper Ranch mitigation options, also occurring within the Fisheating Creek basin. FDOT's Intent for these improvements is to connect conservation lands from SR 70 up to Highlands Hammock State Park. SWFWMD indicated that they generally don't like Conservation Easements as a mitigative measure but will consider them for parcels that are "large enough" and provide a significant ecological lift (benefit). SWFWMD also noted these were out of the basin with the impacts and cumulative impacts would need to be addressed.

6. Schedule

a. The permitting application submittal schedule is preliminarily anticipated for Fall 2025. The permitting aspects and schedule discussed are subject to change.
b. Sam mentioned that this project is anticipated to be let as Design/Build, so the plans may be more consistent with a concept plans, in lieu of the traditional FDOT Phase II plans.

**Purpose of Meeting**:
SR 70 Segments 9-10 – SR 31 to DeSoto/Highlands County Line (451690-1 & 451942-1)
SR 70 Segments 12-13 – Jefferson Avenue to CR 29 (414506-3 & 414506-4)
Drainage Kickoff Meeting

**Date of Meeting**
May 13, 2024, 1:00pm

**Location**:
Microsoft Teams

**Attendees**:

- FDOT – Brent Setchell, Ryan Molloy
- FDOT GEC (PGA) – Joe Lauk
- HNTB – Ed Ponce, John Burton, John Fowler, Matt Dockins, Sam Chiu

**Attachment:** See presentation slides attached.

## Agenda & Notes

1. Introductions
2. Overview
    a. Strategic Corridors – State Road (SR) 70
        i. Segments 9 and 10 (FPIDs 451690-1 and 451942-1)
            1. It is a concurrent PD&E and Concept Design
        ii. Segments 12 and 13 (FPIDs 414506-3 and 414506-4)
            1. It has a previous standalone PD&E and the current phase is Concept Design.
3. Roadway Typical Sections
    a. Segments 9 and 10
        i. Existing
            1. Two lane undivided roadway
            2. From Turkey Hammock to 1-mile west of County Line has passing lane added under FPID 420983-1
            3. There are existing path and access road on the north side that may need to be restored
                a. Joe clarified that it would be great to re-established, but not a must condition
        ii. Proposed
            1. Four lane divided roadway
            2. Two roadway alternatives being evaluated
    b. Segments 12 and 13
        i. Existing
            1. Two lane undivided roadway
        ii. Proposed
            1. PD&E divided the project into three typical sections due to the varying existing and proposed right-of-way
            2. Concept Design is refining the roadway typical sections
4. Conservation Lands
    a. Segments 9 and 10 – None directly adjacent to the project
    b. Segments 12 and 13 – Western portion within Segment 12 is bounded by the Lake Wales Ridge Wildlife and Environmental Area (LWRWEA) and Archbold Biological Station.

5. Water Management District Boundaries
    a. Segments 9 and 10 – Fully contained in Southwest Florida Water Management District (SWFWMD).
    b. Segments 12 and 13 – Mostly in SWFWMD, but the eastern end is within South Florida Water Management District (SFWMD). The Interagency Agreement executed March 24, 2018 delegated the permitting authority for the entire limits of this project to the SWFWMD.
6. Existing Permitted Ponds
    a. Segments 9 and 10
        i. About 1.2-mile of existing linear ponds were added on both sides of SR 70 for the widening under FPID 193896-1.
        ii. About 5.6-mile of existing linear ponds and 0.4-mile of existing linear floodplain compensation sites (FPCs) were added on the north side of SR 70 for the passing lane under FPID 420983-1.
    b. Segments 12 and 13
        i. Four existing linear ponds were added on the south side of SR 70 for the Georgia Pacifica Access Road project.
        ii. Four linear ponds have been added at the SR 25/SR 70 Intersection for the intersection improvement under FPID 439827-1.
            1. Brent clarified that the project is nearly completed.
        iii. Ten existing linear ponds were added on both sides of SR 70 for the intersection/turn lane improvements under FPID 194437-3.
7. Base Clearance
    a. The base clearance water elevations for both projects are ongoing; however, the preliminary results show generally high ground water table.
        i. Brent noted that there are no known issues or overtopping with the exception of the RV Parking east of US 27. HNTB will request more information on this flooding.
    b. The intent is to follow the guidance outlined in Drainage Manual 5.4.1.1.
        i. Brent concurred.
8. Stormwater Management
    a. Segments 9 and 10
        i. The intent is to evaluate both linear ponds and offsite ponds.
        ii. Sam noted that the use of linear ponds will need to evaluate in conjunction with the roadway as it has cost implication to roadway profile and roadway right-of-way.
    b. Segments 12 and 13
        i. PD&E identified 1 alternative per basins. However, PD&E did not have survey, geotechnical data, and roadway profile.
        ii. The Concept Design will perform the design level Pond Siting Analysis.
    c. Water Quality
        i. The proposed improvements will address the nutrient impaired water bodies by demonstrating net improvement and meet SWFWMD's 150% of presumptive treatment volume for direct discharge to the Placid Lakes Outstanding Florida Water (OFW).
        ii. The Project Development and Environment (PD&E) study is expected to be complete approximately Summer of 2025 and therefore, should fall under the current stormwater rules.
        iii. In the area that the existing ponds are being impacted, it will need to provide treatment to the new impervious plus offsetting the existing treatment volume.
            1. Brent concurred.

d. Water Quantity
    i. In open basins, the proposed improvements will need to demonstrate the post development peak discharge rate does not exceed the pre development using SWFWMD's 25-year 24-hour storm event.
    ii. In closed basins, the proposed improvements will need to demonstrate the post development discharge volume does not exceed the pre development using FDOT's 100-year 240-hour storm event.
e. Floodplains
    i. Part of the project is located within the Lake Placid watershed model. The project will use this watershed model as the best available information. Further evaluation may be necessary to model initial stages and the project specific seasonal high water.
    ii. In the area without the watershed model, the Federal Emergency Management Agency (FEMA) map will be utilized as the best available information. Cup-for-cup compensation is the anticipated approach for those areas.
        1. In the area with historic basin storage, but not mapped as 100-year floodplain, the project will also need to demonstrate compensation or no adverse impacts.

Florida Department of Transportation

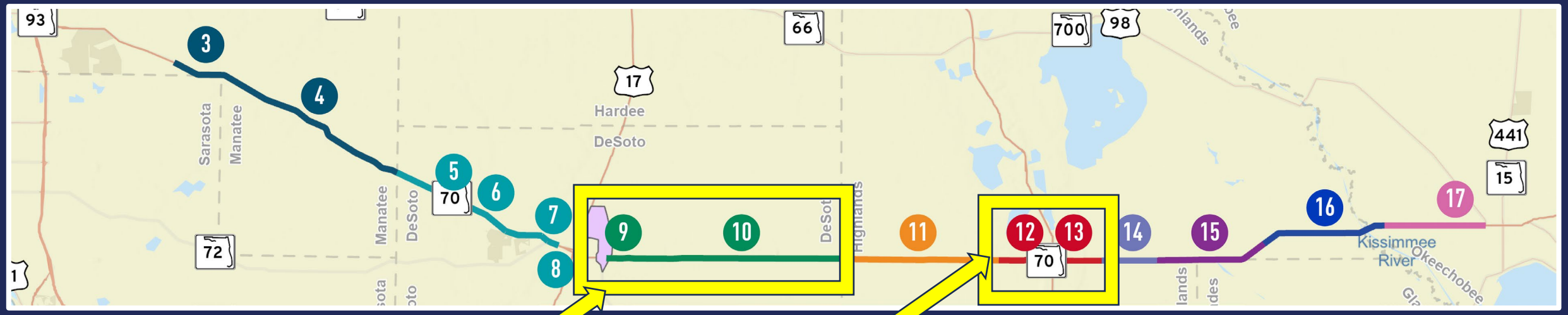



# STRATEGIC CORRIDORS – Segment 9-10 & 12-13

FPIDs 451690-1, 451942-1, 414506-3 & 414506-4

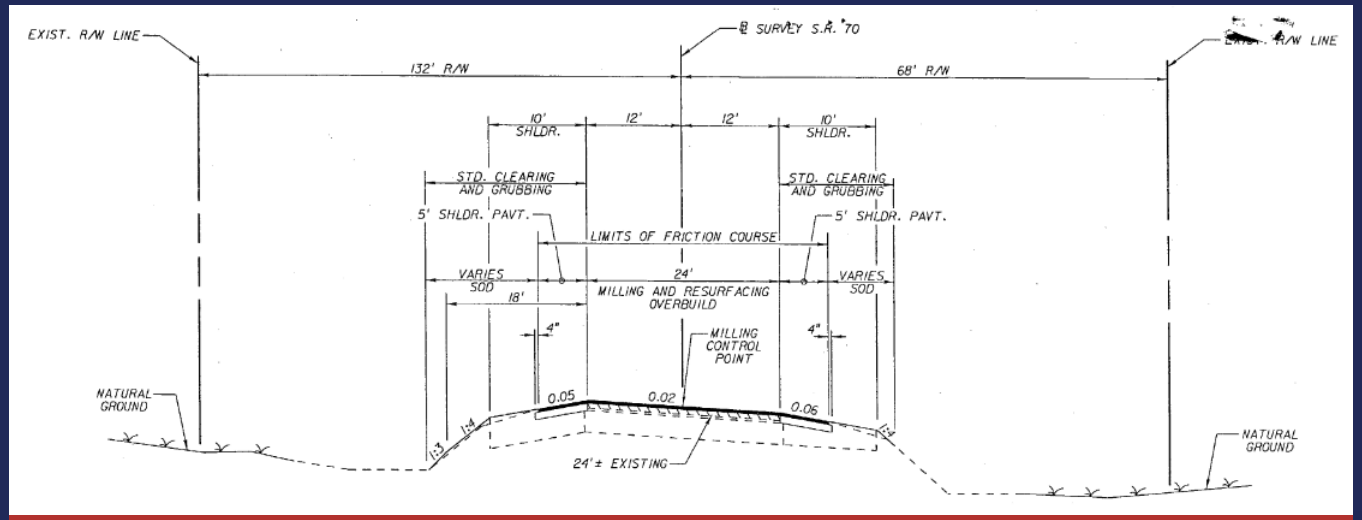
Drainage Kickoff Meeting
May 13, 2024

# SR 70 Implementation Overview

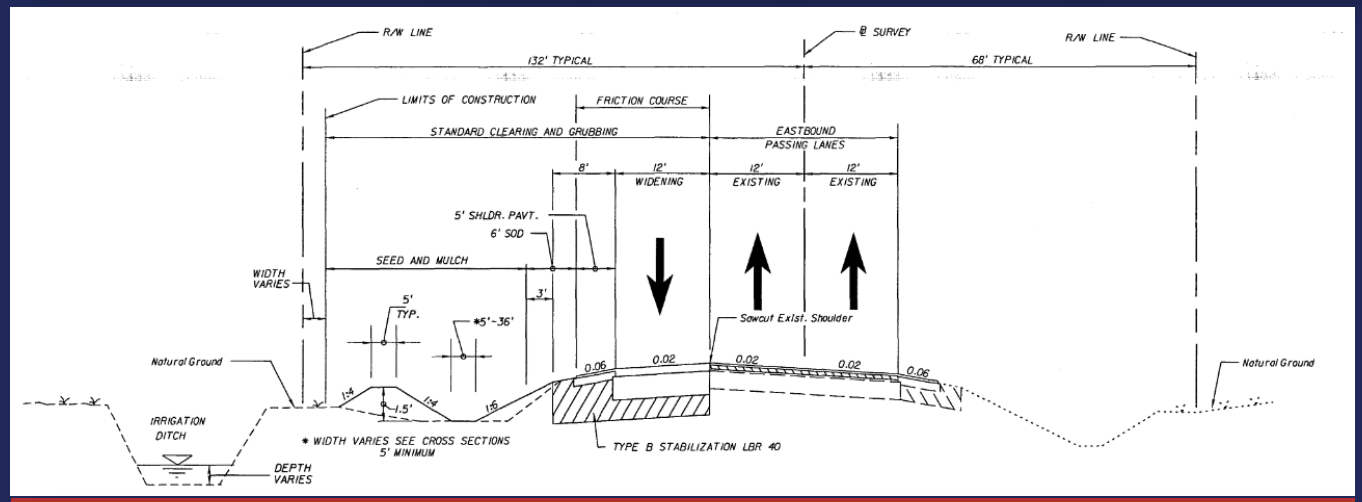



| Segment 3-4 | Segment 5-8 | Segment 9-10 | Segment 11 | Segment 12-13 | Segment 14 | Segment 15 | Segment 16 | Segment 17 |
|---|---|---|---|---|---|---|---|---|
| FPID Pending | FPID Pending | 451690-1<br>451942-1 | 451649-1 | 414506-3<br>414506-4 | 414506-5 | 449851-1 | 450334-1 | 445254-1 |
| Waterbury Rd. to Manatee Co. Line | Manatee/DeSoto Co. Line to Peace River | West of SR 31 to DeSoto/Highlands Co. Line | DeSoto/Highlands Co. Line to Jefferson Ave. | Jefferson Ave. to CR 29 | CR 29 to Lonesome Island Rd. | Lonesome Island Rd. to CR 721 | CR 721 to 128th Ave. | 128th Ave. to US 98 |
| Manatee Co. | DeSoto Co. | DeSoto Co. | Highlands Co. | Highlands Co. | Highlands Co. | Highlands Co. | Highlands Co. | Highlands/ Okeechobee Co. |
| 17 Miles | 12.5 Miles | 16.6 Miles | 10.2 Miles | 7.0 Miles | 4.4 Miles | 7.6 Miles | 8.6 Miles | 7 Miles |
| HNTB | Kimley Horn | HNTB | Lochner | RK&K<br>HNTB | KCA<br>HNTB | Consor (American) | Scalar | TBD |

# Segment 9-10 Roadway Typical Sections

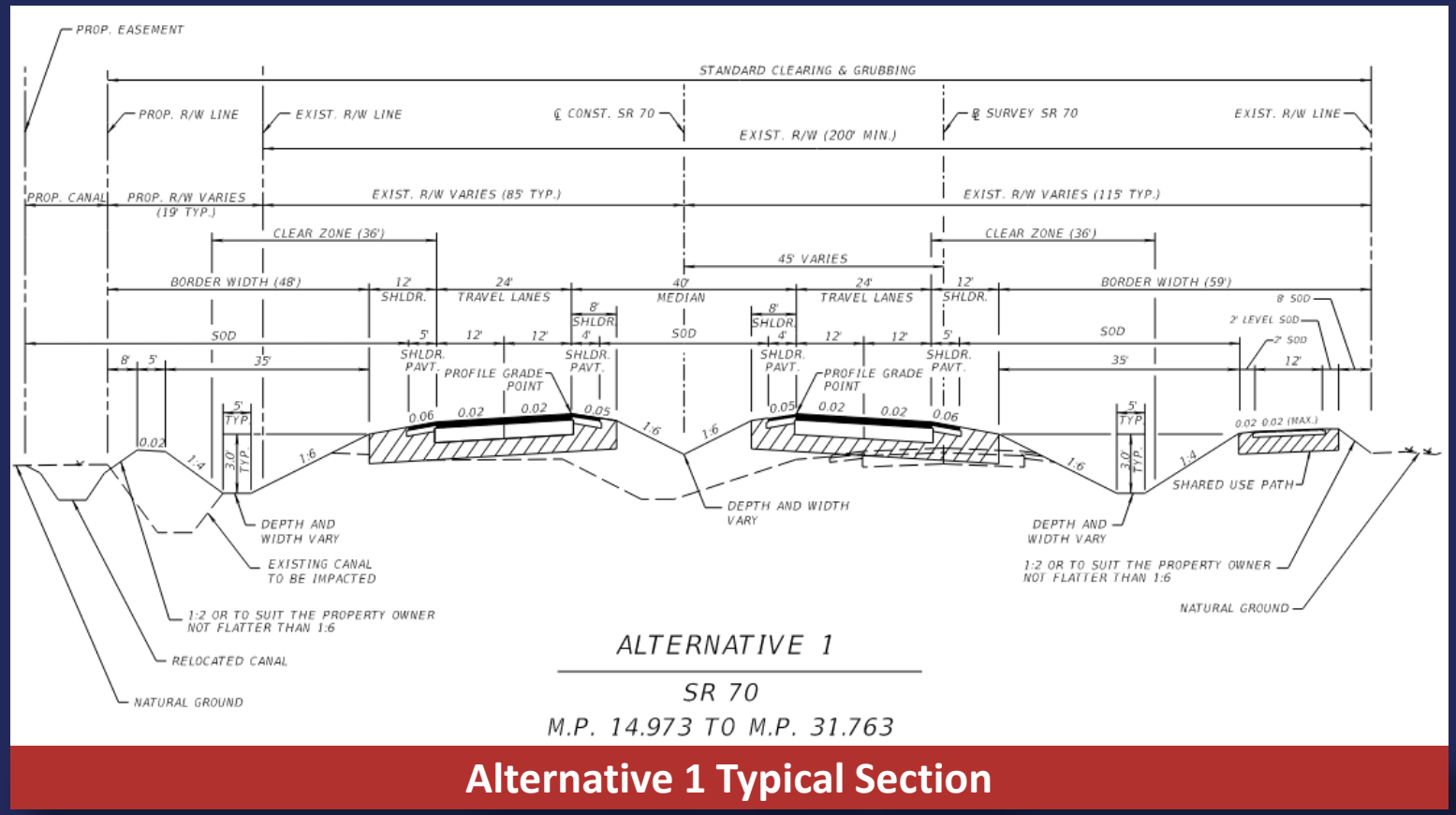



**Existing Typical Section (FPID 193848-2)**



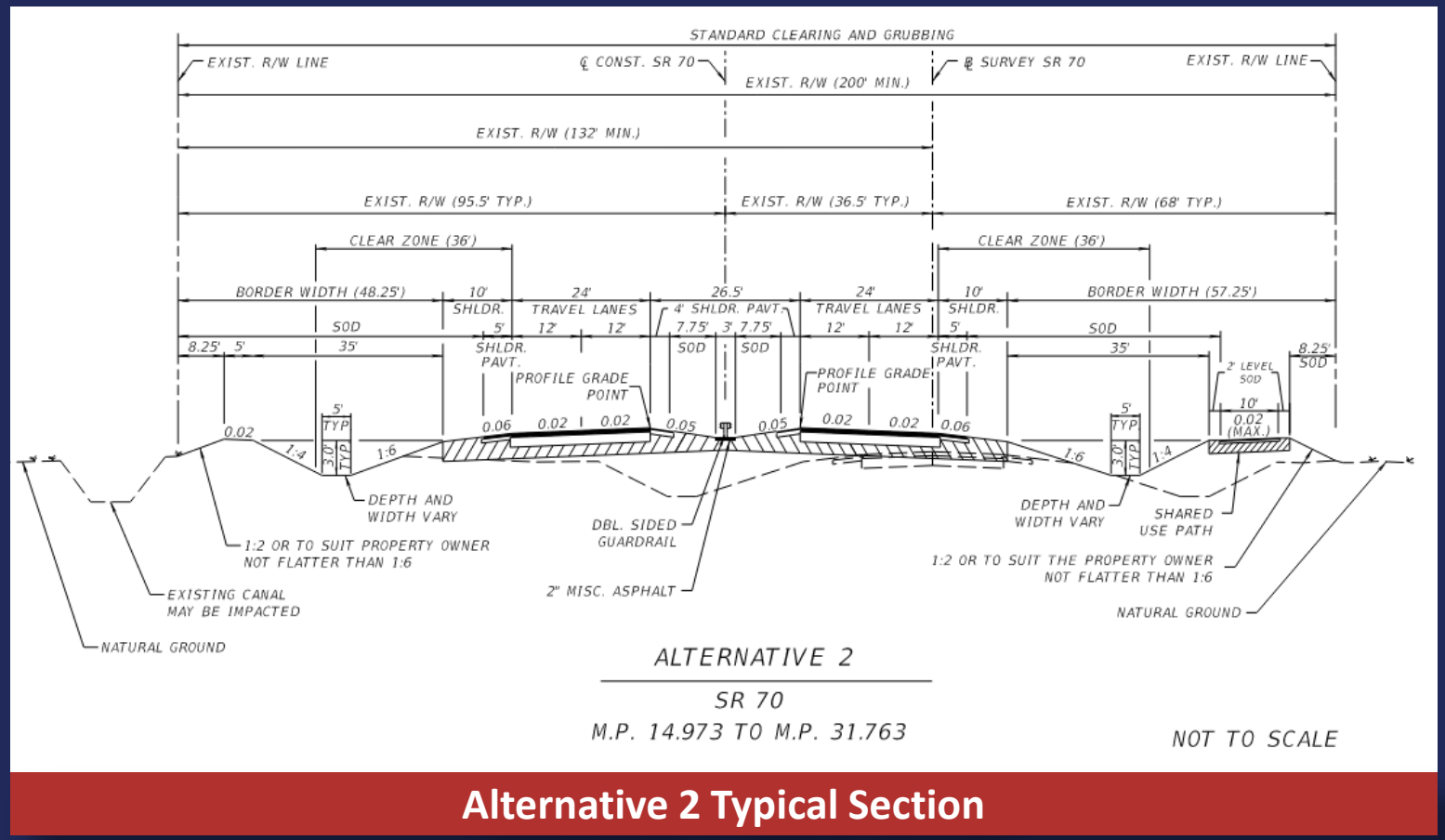

**Existing Typical Section (FPID 420983-1)**

# Segment 9-10 Roadway Typical Sections



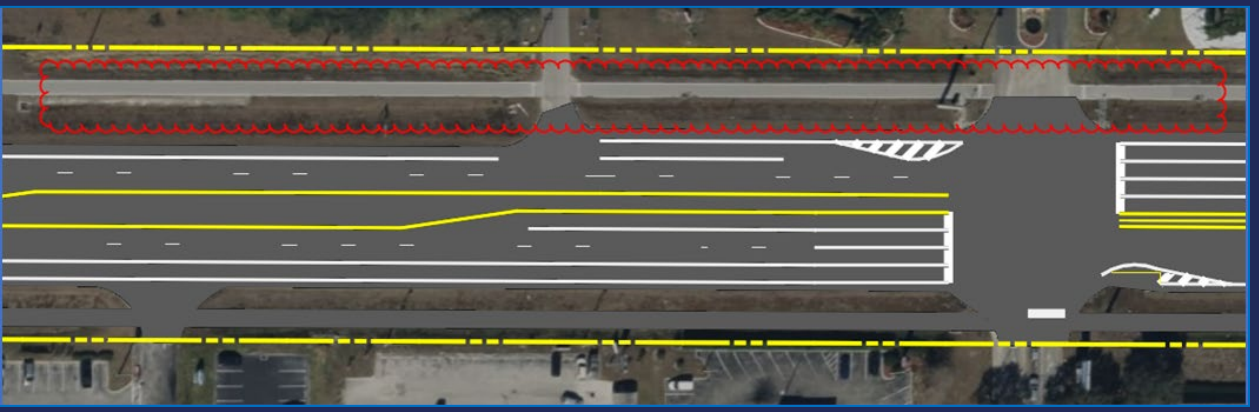

**Alternative 1 Typical Section**

# Segment 9-10 Roadway Typical Sections




**Alternative 2 Typical Section**

# Segment 9-10 Roadway Typical Sections





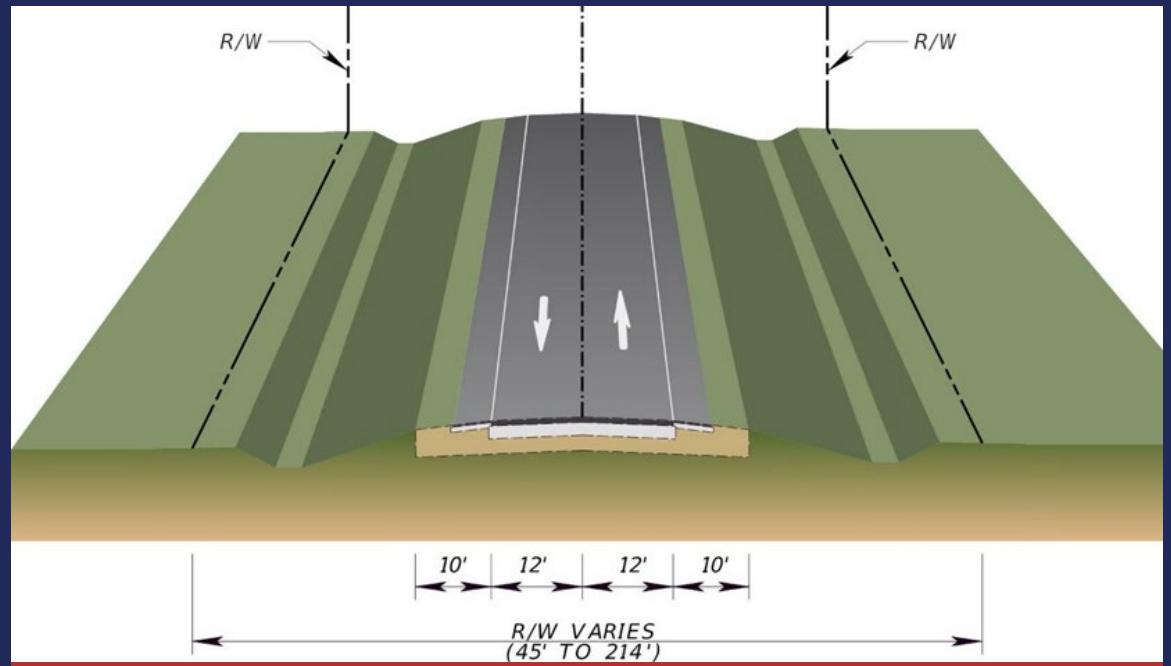




**Existing Path**

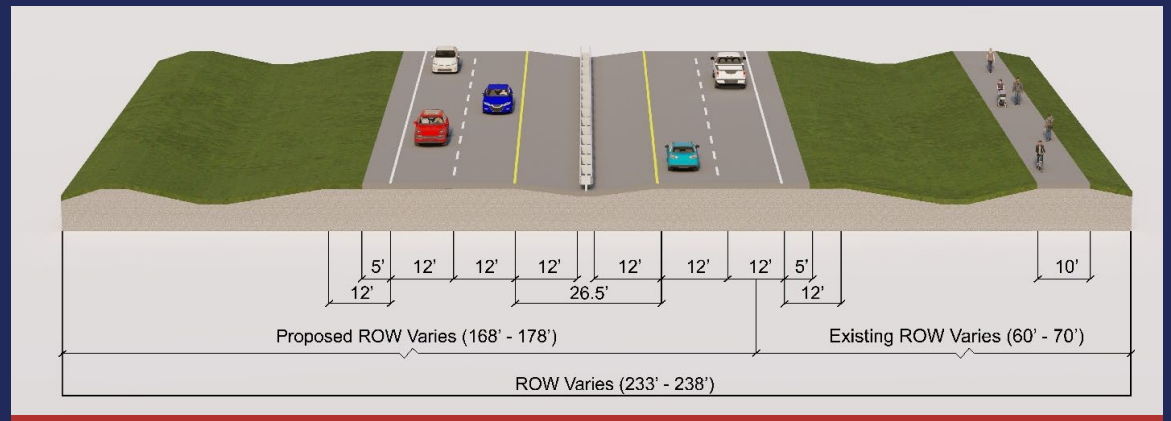
**Existing Access Road**

# Segment 12-13 Roadway Typical Sections

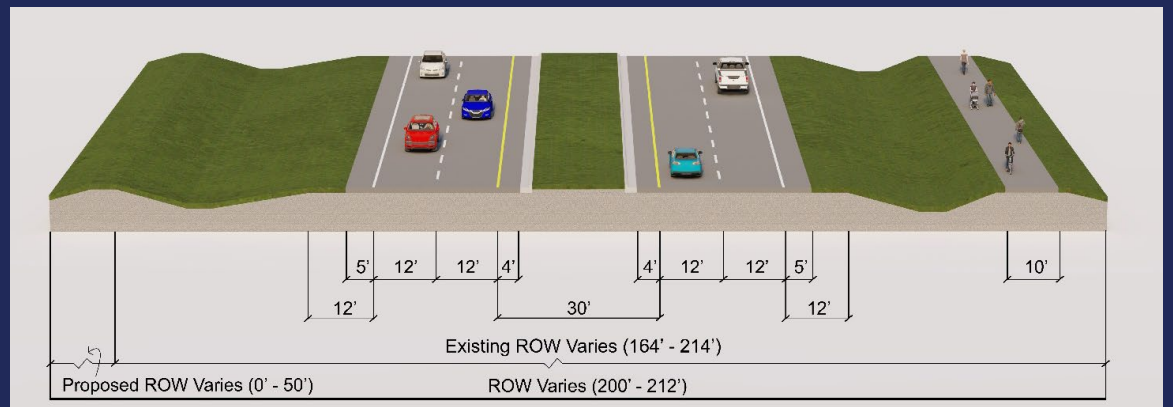



Existing Typical Section

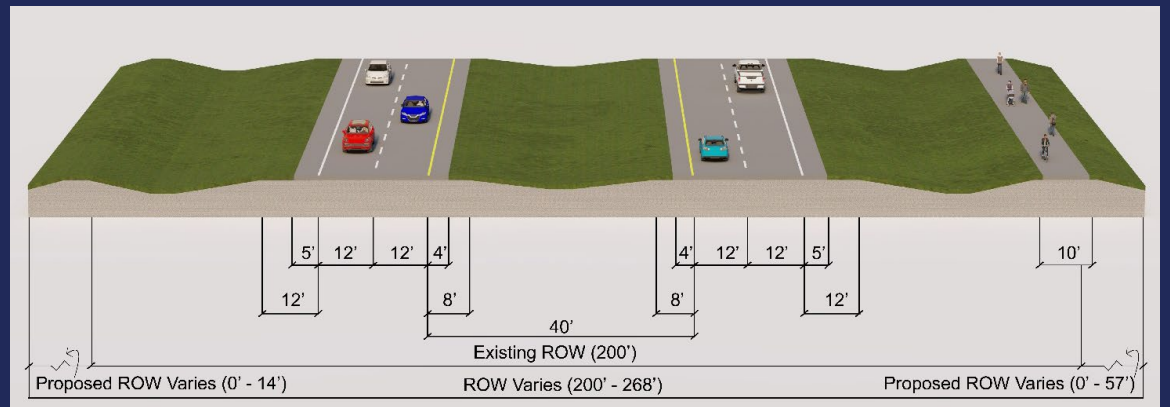
# Segment 12-13 Roadway Typical Sections




**PD&E Segment A Typical Section**

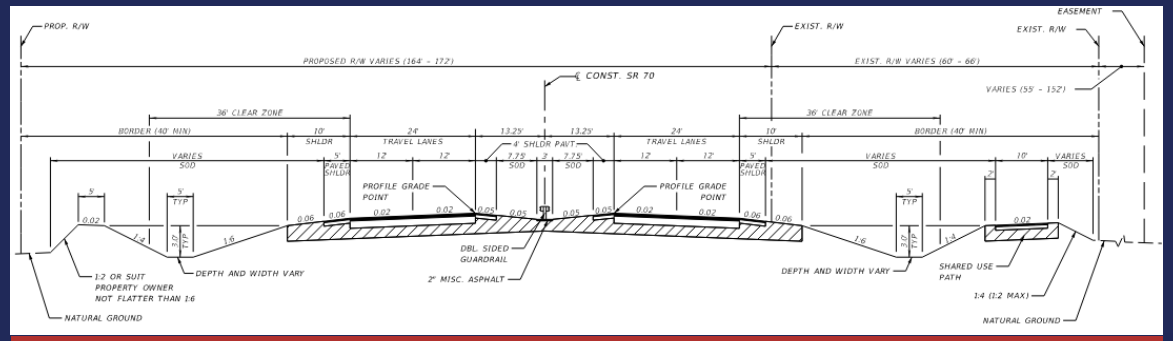



**PD&E Segment B Typical Section**

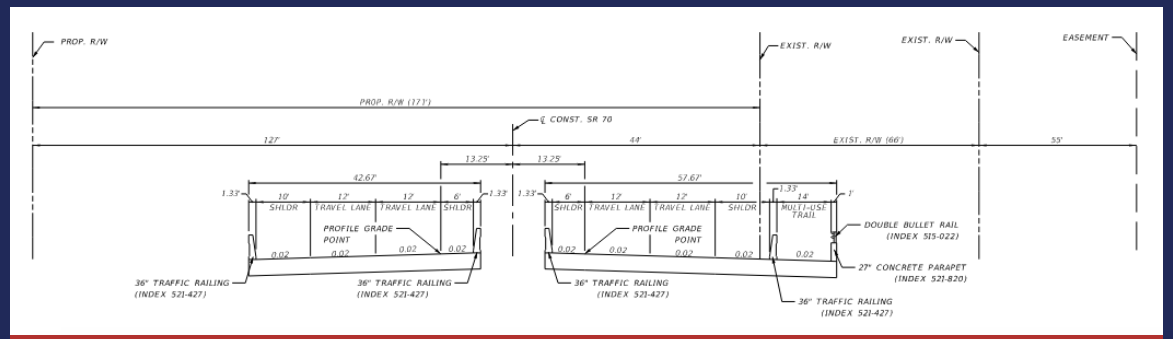



**PD&E Segment C Typical Section**

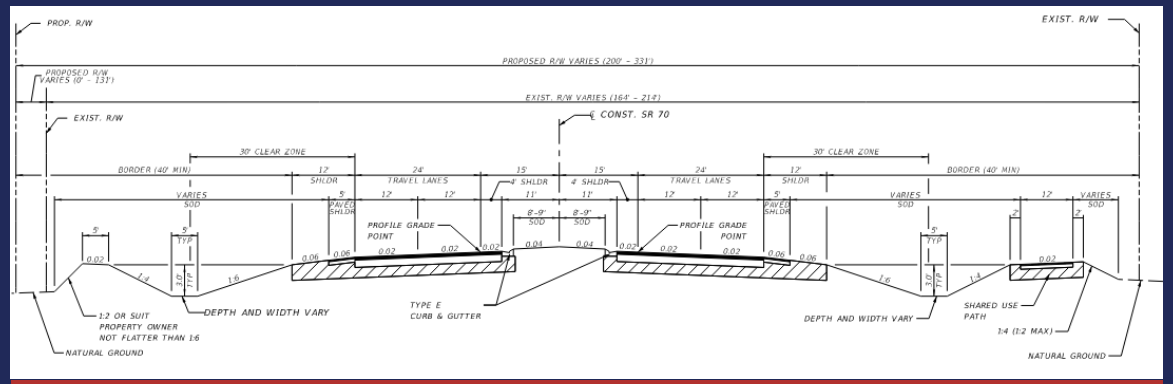
# Segment 12-13 Roadway Typical Sections



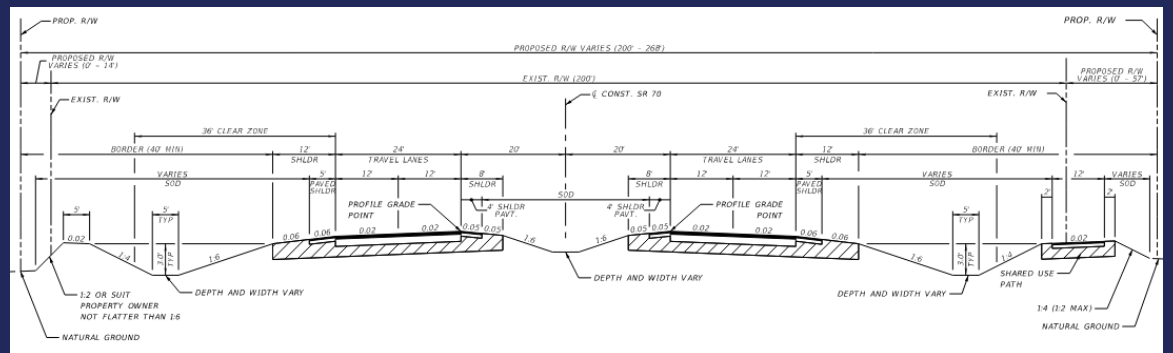

**Typical Section #1**




**Typical Section #2**




**Typical Section #3**




**Typical Section #4**

# Conservation Lands

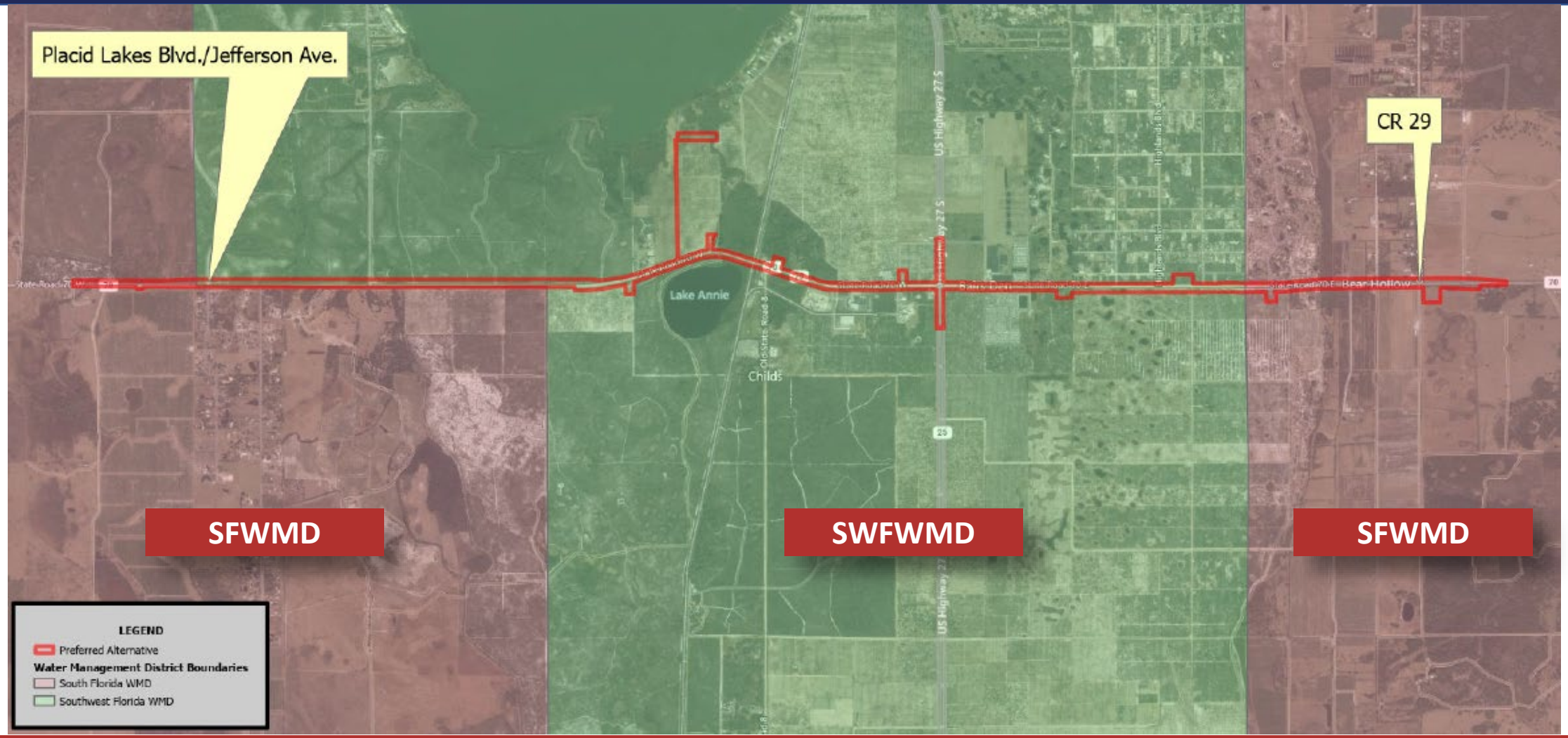


Segment 9-10



Segment 12-13

# Segment 12-13 WMD Boundaries



# Segment 12-13 Interagency Agreement

**INTERAGENCY AGREEMENT BETWEEN
THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
AND THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT
FOR THE DESIGNATION OF REGULATORY RESPONSIBILITY FOR AN
ENVIRONMENTAL RESOURCE PERMIT FOR THE
SR 70 PROJECT IN HIGHLANDS COUNTY**

THIS INTERAGENCY AGREEMENT (Agreement) is made and entered into by and between the SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) and the SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD).

WITNESSETH:

WHEREAS, The Florida Department of Transportation (FDOT) is seeking an environmental resource permit for construction of road improvements and associated stormwater facilities along an approximately 7-mile portion of SR 70, from east of Jefferson Avenue to CR 29, in Highlands County, Florida. (SR 70 Project); and

WHEREAS, the beginning of the SR 70 Project falls under the jurisdiction of SFWMD, and then the project continues along the geographical boundary between SFWMD and SWFWMD until it again falls under SWFWMD's jurisdiction, and then ends in SFWMD's jurisdiction. See project map attached as "Exhibit A."

WHEREAS, the geographic area of the SR 70 Project includes portions of Highlands County that are located within the jurisdictional boundaries of SWFWMD and SFWMD; and

WHEREAS, Subsection 373.046(6), Fla. Stat., authorizes a water management district to designate, via an interagency agreement, regulatory responsibility to another water management district when the geographic area of a project or local government crosses water management district boundaries; and

WHEREAS, the designation of the SWFWMD as the water management district with Part IV, Chapter 373, Fla. Stat., regulatory responsibility for the SR 70 Project would allow for more efficient processing of permit applications under that part; and

WHEREAS, the SWFWMD and the SFWMD desire to designate the SWFWMD as the water management district with Part IV, Chapter 373, Fla. Stat., regulatory responsibility for the SR 70 Project, pursuant to Part IV, Chapter 373, Fla. Stat.;

NOW THEREFORE, the SWFWMD and the SFWMD, under the authority of Subsection 373.046(6), Fla. Stat., hereby agree as follows:

1. The SFWMD hereby designates to SWFWMD all regulatory responsibilities under Part IV of Chapter 373, Fla. Stat., for those activities associated with the SR 70 Project that lie within the jurisdictional boundaries of SFWMD. Such regulatory responsibilities shall include receiving, processing, and taking final agency action on all environmental resource permit applications, or modifications thereof, and taking any compliance and enforcement action with regard to such permit.

2. This Agreement will commence upon execution by all parties and will remain in effect until either party terminates such agreement for its convenience upon ninety (90) days written notice to the other party.

IN WITNESS WHEREOF, each party, or its lawful representative, has executed this Agreement on the date set forth next to their signature below.

**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT**

By: _____
Randall S. Maggard, Chair

Attest: _____
~~Bryan K. Beswick, Secretary~~
Ed Armstrong, Treasurer

Date: March, 27, 2018

(Seal)

Legal Form Approved:

Jodi A. Thompson
Staff Attorney

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**

By: _____
Jill S. Creech, P.E.
Director, Regulation Division

Attest: _____
District Clerk/Secretary

Date: 03/16/18, 2018

(Seal)

Legal Form Approved:

Jennifer D. Brown
Senior Attorney

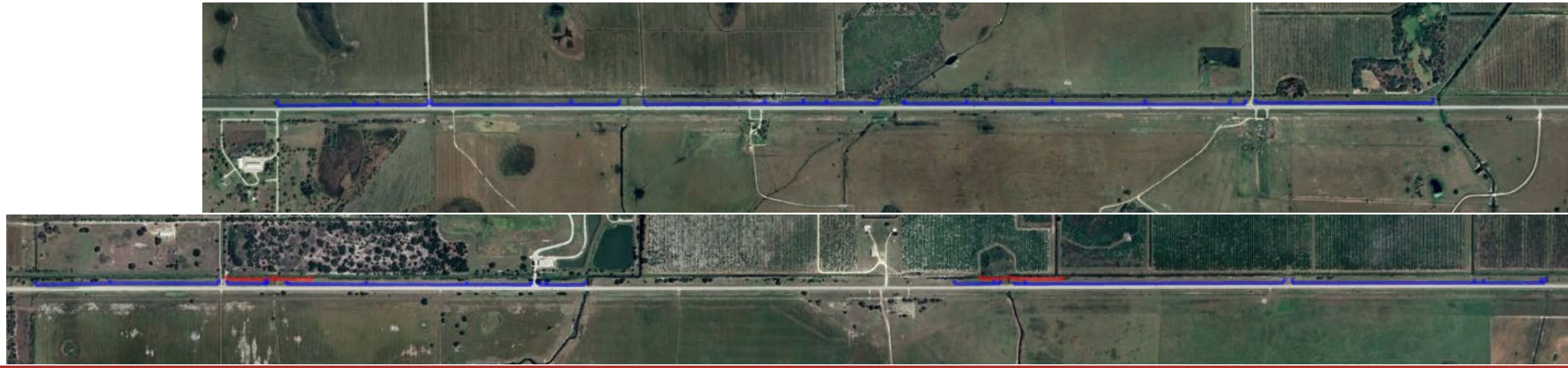
# Segment 9-10 Existing Linear Ponds & FPCs

- ✓ FPID 193896-1
  - ✓ SR 70 Widening (Turner Ave to SR 31)
  - ✓ 1.2-mile of existing linear ponds (both sides)



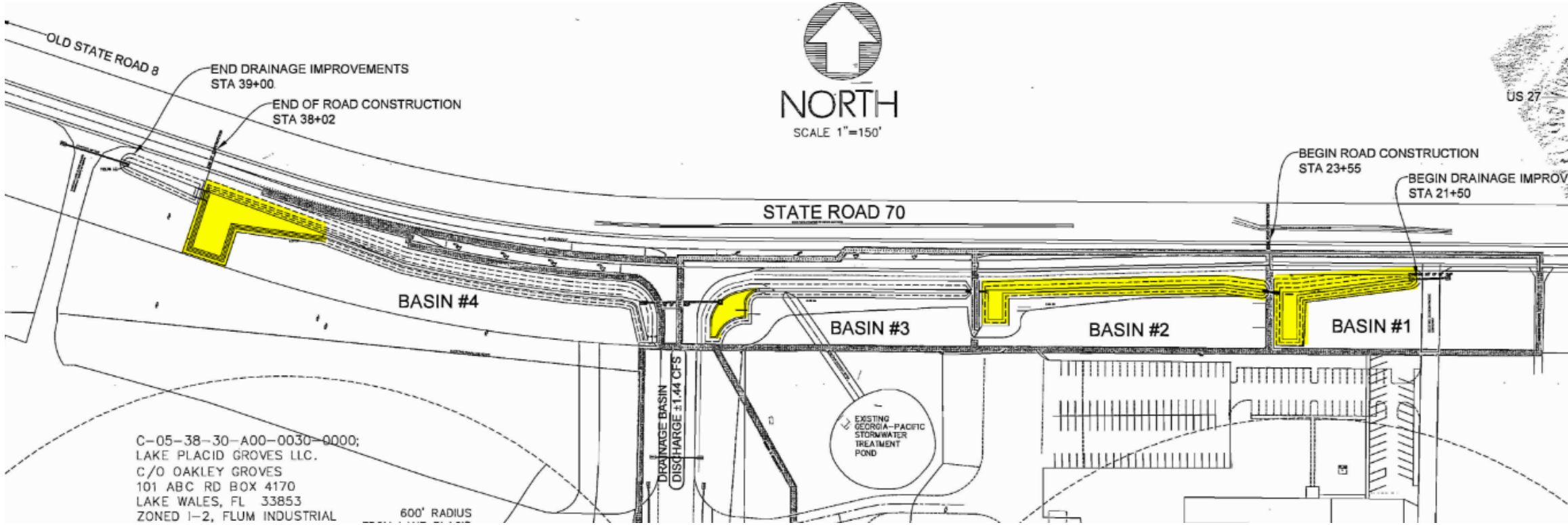
# Segment 9-10 Existing Linear Ponds & FPCs

- ✓ FPID 420983-1
  - ✓ SR 70 Passing Lanes (Turkey Hammock Rd to 1-mile west of County Line)
  - ✓ 5.6-mile of existing linear ponds (north side)
  - ✓ 0.4-mile of existing linear FPCs (north side)



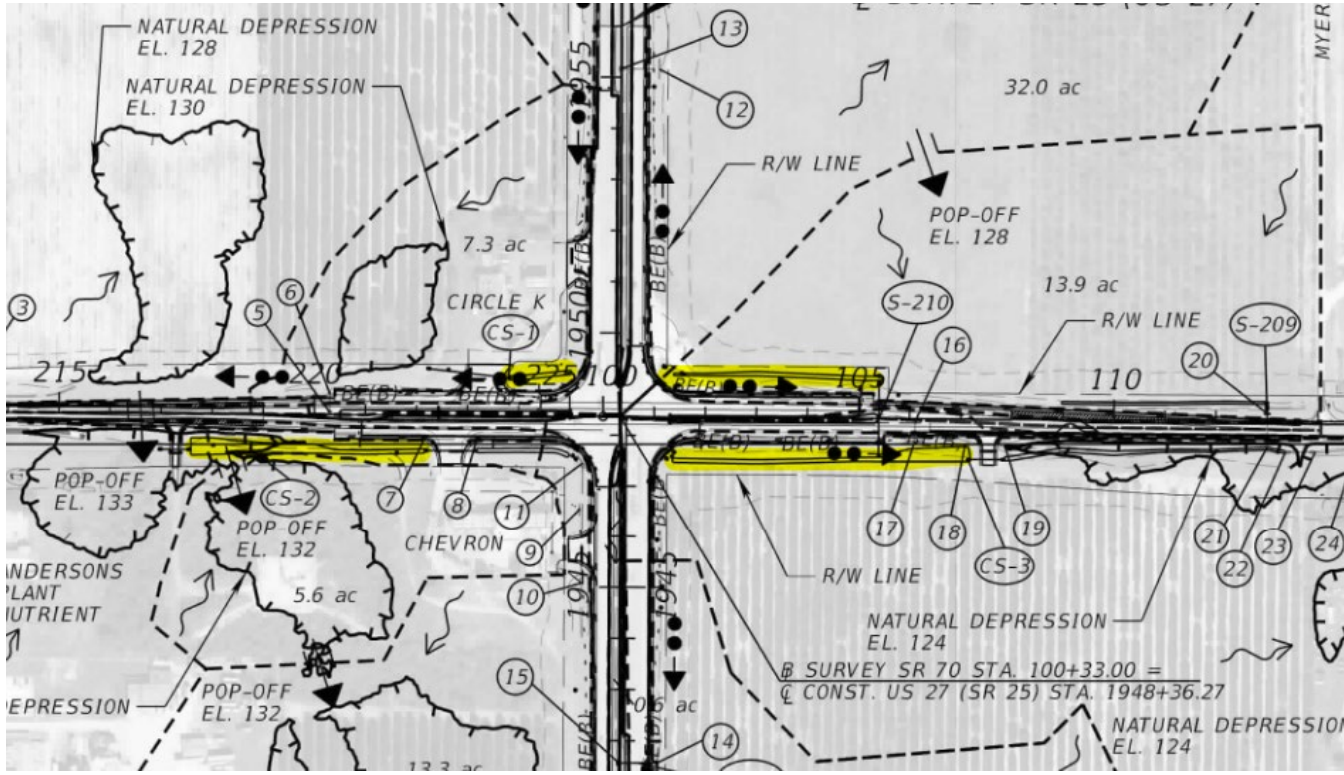
# Segment 12-13 Existing Linear Ponds

- ✓ Georgia Pacific Access Rd
  - ✓ Four existing linear ponds (south side)



# Segment 12-13 Existing Linear Ponds

- ✓ FPID 439827-1
  - ✓ SR 25/SR 70 Intersection Improvement
  - ✓ Four existing linear ponds (both sides)
  - ✓ Under construction



# Segment 12-13 Existing Linear Ponds

- ✓ FPID 194437-3
  - ✓ Intersection/Turn Lane Improvement
  - ✓ Ten existing linear ponds (both sides)



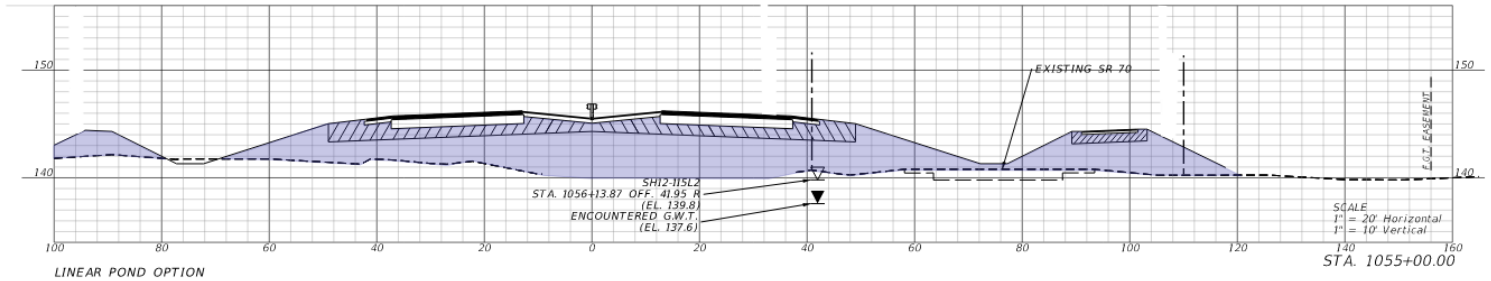
# Base Clearance

- ✓ 3’ Base Clearance
- ✓ Weir Elevation for Linear Ponds
  - ✓ Drainage Manual 5.4.1.1
- ✓ Geotech Estimated SHGWT
  - ✓ Generally high
  - ✓ Segments 9-10
    - ✓ Under Review
  - ✓ Segments 12-13
    - ✓ 15%: 0’-1’ existing base clearance
    - ✓ 20%: 1’-2’ existing base clearance
    - ✓ 15%: 2’-3’ existing base clearance
    - ✓ 50%: >3’ existing base clearance
    - ✓ Pending additional verification

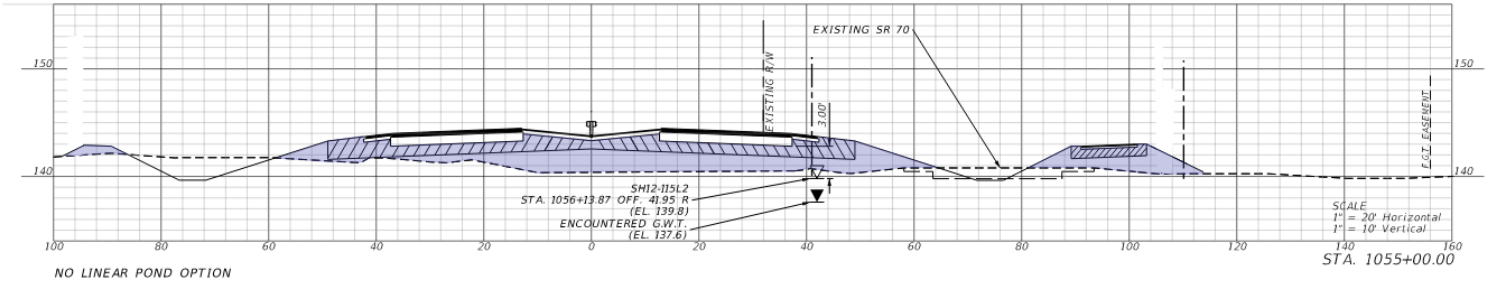
Base clearance is the distance between the bottom of the roadway base and the top of the base clearance water elevation (BCWE). The BCWE is considered the long-term standing water which could negatively affect the structural integrity of the roadway base. Allowable base clearances are based on the roadway’s classification and are provided in **FDM 210.10.3**.

The BCWE for roadside treatment swales should be set at the weir elevation. A lower elevation may be used if all of the following apply:

- In-situ soils are classified as Hydrologic Soil Group A,
- Geotechnical investigation reveals there is no confining layer to impede drawdown, and
- Construction activities are limited within the treatment swale to avoid compaction and tracking of silt and muck.



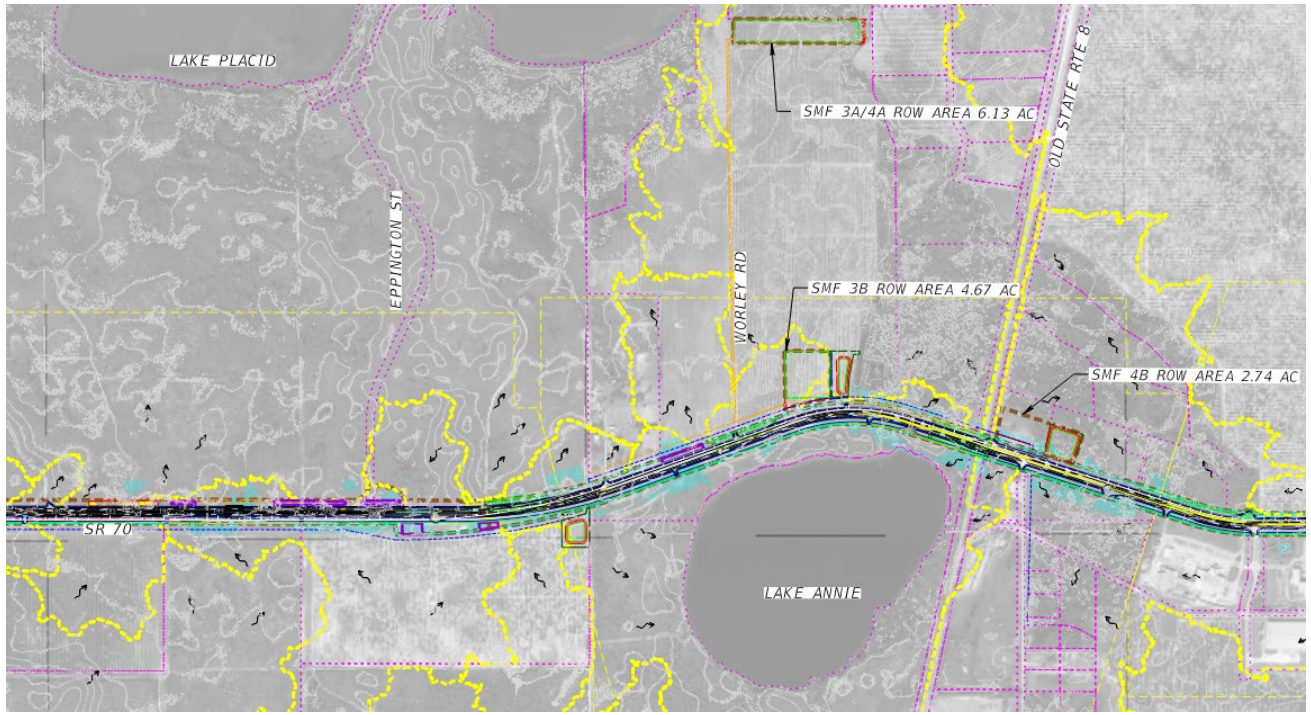
LINEAR POND OPTION



NO LINEAR POND OPTION

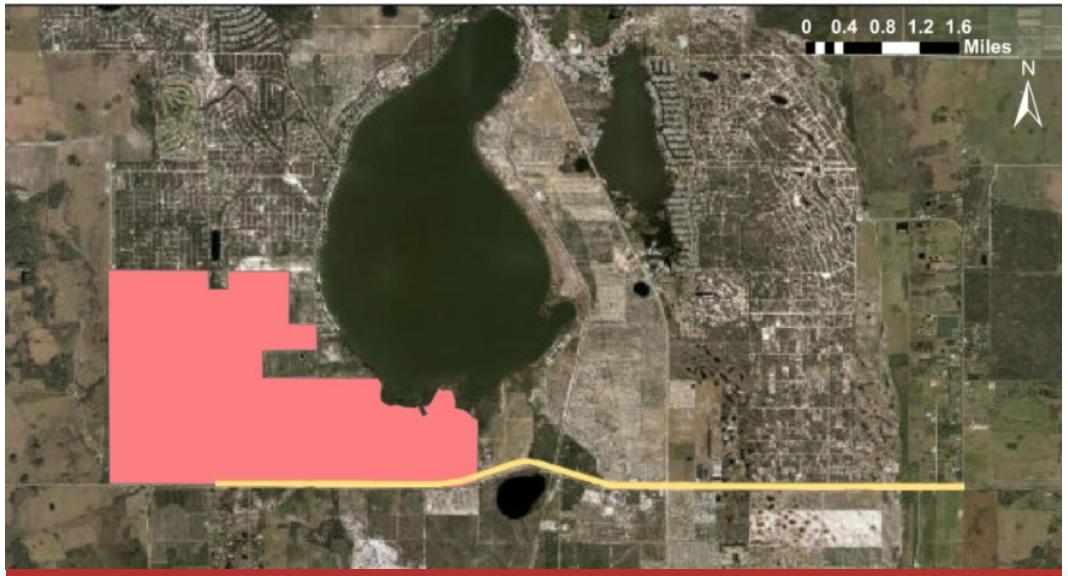
# Pond Siting & Stormwater Management

- ✓ Segments 9-10
  - ✓ Linear Ponds
  - ✓ Offsite Ponds
- ✓ Segments 12-13
  - ✓ PD&E identified 1 alternative per basins
    - ✓ PD&E did not have survey and geotech
    - ✓ PD&E did not have a roadway profile
  - ✓ Utility Easements – FP&L & FGT
  - ✓ Linear Ponds in Conservation Land
  - ✓ Offsite Ponds
  - ✓ Combine Basins?



# Pond Siting & Stormwater Management

- ✓ Segment 12-13
  - ✓ PD&E Pre-Application Meeting
    - ✓ December 2014 (PA 401780)
  - ✓ Concept Design Pre-Application Meeting
    - ✓ April 2024
- ✓ Water Quality
  - ✓ For Nutrient Impaired WBIDs → Net Improvement
  - ✓ For Basins Directly Discharge to OFW → 150% of Presumptive Treatment Volume
  - ✓ Equivalent New DCIA
  - ✓ Compensatory Treatment
  - ✓ Current Stormwater Rules




Placid Lakes OFW

# Pond Siting & Stormwater Management

- ✓ Water Quantity (SWFWMD)
  - ✓ Open Basin →
    25-year 24-hour Pre vs. Post
    Peak Discharge Rate
  - ✓ Closed Basin →
    100-year 240-hour Pre vs. Post
    Discharge Volume



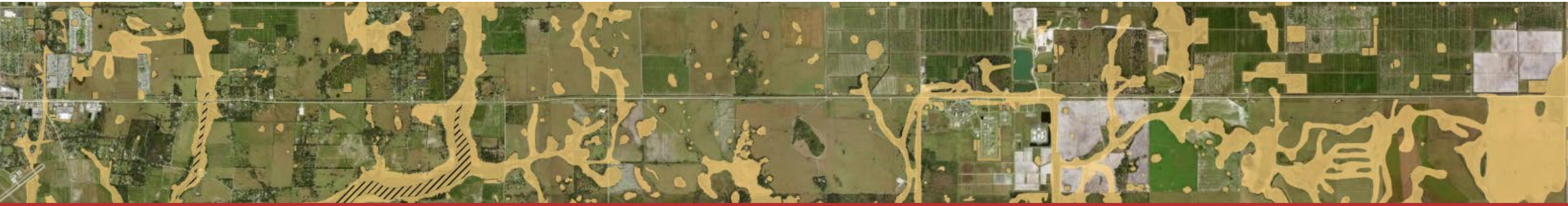
FEMA



Lake Placid Watershed Model

# Pond Siting & Stormwater Management

- ✓ Floodplains
  - ✓ Lake Placid Watershed Model
  - ✓ SHGWT vs. Initial Stage



Segment 9-10 FEMA



Segment 12-13 FEMA



Lake Placid Watershed Model

# Questions?

**HNTB Corporation**
The HNTB Companies
Infrastructure Solutions

201 N. Franklin Street
Suite 1200
Tampa, FL 33602

Telephone (813) 402-4150
hntb.com

# MEETING MINUTES

**Project Name**
SR 70 Segments 9-10, 12-14

**Date of Meeting**
September 9, 2024

**FPID(s)**
451690-1, 451942-1, 414506-3, 414506-4, 414506-5

**Location**
D1 HQ, Microsoft Teams

**Purpose of Meeting**
Drainage Pond Siting Schedule

**Time**
2:00 PM – 3:00 PM

**Attendees:**

- **FDOT – Joe Lauk (PGA), Brent Setchell, Melody Joyner, Melissa Slater**
- **HNTB – Bill Jones, Ed Ponce, John Burton, Sam Chiu, Angela Shepard, Matt Dockins, Gordon Mullen, Dave Crombie**

## Agenda & Notes

1. Introductions & Agenda
    - Pond siting is critical path for both PD&E and design. Regular check-ins will help expedite schedule and make sure we are on the right track.
    - Meeting purpose to review project schedules and identify decision points for pond siting activities.

2. Segment 9-10, 12-14 schedules:
    - Discussed draft schedule of activities for concurrent PD&E and design related to pond siting.
    - During the meeting, comments and revisions made to the draft schedule included the following:
        - Pond Siting Alternatives Analysis will include preliminary environmental desktop analysis.
        - Brent suggested having a check-in meeting to confirm alternates before starting the field work (exploratory Geotech and Environmental). This will be accomplished in Checkpoint Meeting #1
        - Brent suggested an additional check in meeting prior to submission of the Draft PSR (Meeting #2). This meeting will discuss estimated costs & impacts and identify preliminary recommendations to incorporate in the Draft PSR.
        - Full field investigation (Geotech and Topo Survey) may begin after Draft PSR.
        - Meeting #3 will be scheduled prior to Final PSR submittal to confirm final recommendations.
        - After confirmation of final pond site recommendations, preliminary right of way process activities, including title searches and mapping up to 60%, may begin. For purposes of the pond siting schedule, right of way activities will be reflected in two lines for preliminary and final effort (appraisals, etc).

- Bill displayed a graphic illustrating the Segment 14 LDCA will be achieved by December 2024 and noted that this allows for ROW acquisition and permitting package submittals in advance of the other segments.
- Bill noted some funding for right of way and/or mitigation will be available in FY 2026.
- An additional schedule line will show the anticipated Segment 14 re-evaluation timeline. Anticipated 6-month timeline should be complete by August 2025, prior to 60% plans and SFWMD permit application.
- Dates related to DB procurement are subject to change.

3. Pond siting methodology, approach, preliminary alternate sites discussion.
    - Segment 14
        - Angela reviewed the current PD&E alternates and recommendations, three alternative stormwater management facility types for 3 basins (offsite wet detention, linear ponds, regional pond), and 2 FPC sites with 2 alternates identified for each site.
            - FPC 2A (PD&E recommended) is now a planned FPL Solar Farm site. Unless it is anticipated this is still a viable site, an additional alternate site will be needed to replace FPC 2A.
            - FPC 1A (PD&E recommended) may impact adjacent wetlands with modeled SHWT. Recommendation may change to FPC 1B or third alternate (TBD).
            - Preliminary cost differences estimated for the LRE memo comparing alternative stormwater management facility types will be expanded and incorporated in the PSR.
        - Angela identified next steps for updating the ICPR floodplain model with design-level information as it becomes available. Brent had no comments on the overall approach.
            - Brent agreed that initial stage shouldn't be at canal bottom. FP model updates will incorporate the recent canal SHW/NWL determinations.
            - Angela noted upcoming Draft BHR will be based on the current PD&E FP model and will be refined in the Final BHR when FP model updates for roadway design geometry and topo survey are incorporated. Joe and Brent have concerns about the BHR rework if survey data is not available. John noted available LiDAR has been reasonably accurate compared to survey to-date. Joe inquired if the BDR/BHR is on the critical path. Angela noted the BDR/BHR schedule is aligned with the current design schedule.
            - The current FP model reflects permitted (future) conditions for some offsite wetland restoration project sites. Updates needed to replace FP model input with existing conditions data.
                - In order to update the FP model with the best available (permit) data, Angela requested approval to contact offsite property owners for ICPR data not available from SFWMD or KCA. Brent had no concern with contact.
            - Anticipated that upcoming ICPR model updates may result in increases in FP impacts and corresponding FPC site sizes.
                - If viable sites are not available, will revisit other opportunities with less favorable schedule impacts.
    - Segment 13
        - PD&E provided one alternative per basin. Updates will include 3 per basin.
        - HNTB to request flooding complaints for the RV site

- Brent alerted the team about the isolated depressions, which may have clay/organic materials to cause the impoundment. Brent also noted the odd topography in proximity to seepage slope.
- Will need model to estimate floodplain elevations in depressions.

- Segment 12
  - PD&E provided one alternative per basin. Updates will include 3 per basin. Basins 1 and 2 include linear pond options as suggested in the PD&E. Basins 3 and 4 have a regional alternative.
  - Initial stages in the watershed model will be updated to reflect recent SHWT determination. Updates may result in increases in FP impacts and corresponding FPC site sizes.
  - Discussion about the roadway realignment shift north due to FP&L.
  - Brent asked if the EB roadway is re-using the existing. HNTB indicated that is for Segment 9-10.
- Segments 9-10
  - Existing FGT and FP&L easements
  - HNTB indicated that there are owners that has multiple large parcels. Will look for opportunities to minimize impacts to owner or combine basins.
  - Basin delineation and CN calculations underway.
  - No previous sites identified. Three alternatives per basin will be provided, including linear ponds as an option. The current roadway design fit inside the existing roadway R/W. Any differences in project costs due to linear ponds will be accounted for in the PSR.
  - FPC sites will be identified offsite.
  - Potential pond sites may not be directly adjacent to roadway due to FPL and FGT easements.
  - Survey anticipated in early December. LiDAR will be used in the meantime.

4. Additional general discussion for PSR methodology:
   - Brent's preference is to locate pond sites close to R/W
   - When sizing pond, use 1.0 to 1.5 ft of treatment depth. Include consideration for impacts to roadway profile and cost benefit of expanding pond footprint.
   - If a shallow treatment depth is used (such as 0.5 ft), this will need justification if that is due to roadway profile. Should include a comparison of the larger pond vs. roadway cost (raising roadway profile that affect roadway R/W and roadway embankment)
   - Alternative cost estimates should include all costs associated with ponds, such as outfall and easements, and other differential costs (higher roadway profiles or additional corridor right of way).
     - Include consideration for pipes will connect to ponds. Potential example of combining basins that requires a deeper pipe to traverse cross drain locations.

5. Action items:
   - Update pond siting project schedules, see attached.
   - Schedule check in meetings.



## Strategic Corridors – District One

## Meeting Sign In Sheet

| Name | Office/Firm | Phone | Email |
|---|---|---|---|
| ED PONCE | HNTB | 863-604-1034 | eponce@hntb.com |
| Gordon Muller | HNTB | 863-804-3087 | gsmuller@hntb.com |
| John Burton | HNTB | 727-642-1966 | jburton@hntb.com |
| Angela Shepard | HNTB | 904-676-7188 | ashepard@hntb.com |
| SAM CHIU | HNTB | 813-407-7719 | HTCHIU@HNTB.COM |
| DAVE CROMBIE | HNTB | 850-264-7754 | dcrombie@hntb.com |
| Matt Dockry | HNTB | 617-488-8433 | MDockry@HNTB.com |
| JOSEPH LAUK | PCA / PROTEGE | 863 6c40516 | Joe.Lauk@dot.state.fl.us |
| Melody Joyner | FDOT | 863-800-6247 | melody.joyner@dot.state.fl.us |
| Melissa Slater | FDOT | 863-221-8847 | melissa.slater@dot.state.fl.us |
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| **Project Schedules** & *Pond Siting Activities* | **9 & 10** | **12** | **13** | **14** |
|---|---|---|---|---|
| **Preliminary WMD Coordination/Pre-App Meeting** | - | Apr 2024 | Apr 2024 | May 2024 |
| **Typical Section** | Jul 2024 | Aug 2024 | May 2024 | Jul 2024 |
| **15% L&G** | Oct 2024 | Nov 2024 | Sep 2024 | Aug 2024 |
| **30% Plans** | Jan 2025 | Feb 2025 | Dec 2024 | Nov 2024 |
| **Pond Siting Alternatives Analysis**<br>*- Evaluate alternate drainage schemes*<br>*- Estimate right of way required for each alternate*<br>*- Begin environmental desktop clearances* | Sep 2024-Jan 2025 | Nov 2024-Mar 2025 | Sep-Dec 2024 | Aug-Dec 2024 |
| Checkpoint Meeting 1: Pond Siting Alternatives Analysis w/ Multi-functional Team:<br>*Coordinate ROW, parcels, alternate viability, property owner contact, access conveyance requirements, aesthetic, social, cultural, and environmental impacts of each alternate*.<br>*Confirm sites for preliminary & environmental field work* | Jan 2025 | Mar 2025 | Jan 2025 | Dec 2024 |
| *Estimate costs and assess impacts: complete desktop clearances, field work: species survey, PSR Geotech, CRAS, Contamination, & Environmental for all alternatives.* | Jan-Apr 2025 | Jan-Apr 2025 | Jan-Apr 2025 | Dec 2024-Apr 2025 |
| Checkpoint Meeting 2:<br>*Discuss estimated costs & impacts and identify preliminary recommendations* | Mar 2025 | Apr 2025 | Mar 2025 | Feb 2025 |
| **Draft PSR** | Jan-Mar 2025 | Mar-Apr 2025 | Jan-Mar 2025 | Dec 2024-Feb 2025 |
| *Complete remaining field investigation (Geotech and Topo Survey) for recommended pond sites* | Apr-Jul 2025 | May-Aug 2025 | Apr-Jul 2025 | Mar-Jun 2025 |
| Checkpoint Meeting 3:<br>*Confirm final recommendations.* | May 2025 | Jul 2025 | May 2025 | May 2025 |
| **Final PSR** | May 2025 | Jul 2025 | May 2025 | May 2025 |
| Begin preliminary pond Right of Way Process: (title searches, mapping up to 60%) | May 2025 | Jul 2025 | May 2025 | May 2025 |
| Public Hearing | Jun 2025 | Oct 2025 | Oct 2025 | Sep 2023 |
| LDCA | Oct 2025 | Mar 2026 | Mar 2026 | Dec 2024 - Jan 2025 |
| *Re-evaluation (Segment 14 only)* | - | - | - | Feb-Aug 2025 |
| *After LDCA, begin ROW process (appraisals) as environmental certifications and mapping complete* | Oct 2025 | Mar 2026 | Mar 2026 | Aug 2025 |
| **60% Plans** | Sep 2025 | Oct 2025 | Oct 2025 | Aug 2025 |
| **Permit Application**<br>*after LDCA* | Oct 2025 (SWFWMD) | Mar 2026 (SWFWMD) | | Aug 2025 (SFWMD) |
| **Final DB Plans** | Oct 2025 | Mar 2026 | Mar 2026 | Nov 2025 |
| Potential DB Ad | Oct 2025 | Mar 2026 | Mar 2026 | Mar 2026 |
| Potential RFQ | Oct 2025 | May 2026 | May 2026 | May 2026 |
| Potential Award | Dec 2025 | Nov 2026 | Nov 2026 | Nov 2026 |

**HNTB Corporation**
The HNTB Companies
Engineers Architects Planners

**Project Name**
SR 70 from Jefferson Ave to Lonesome Island

**Date of Meeting**
10/29/2024

**HNTB Project #**
75614-DS-010

**Location**
Teams

**Purpose of Meeting**
Segment 12-14 Access Management

**Time**
9:00 am

**Participants**
Walter Breuggeman, FDOT
Vivianne Pena, FDOT
Matt Dockins, HNTB
Gordon Mullen, HNTB
John Burton, HNTB
John Fowler, HNTB
Ed Ponce, HNTB
Brett Hensley, HNTB

## MEETING NOTES

- PD&E Concepts – Access Overview
  - Segments 12/13
    - Access Class 03
    - Directionals only
    - Signalized median u-turn at US 27
    - Some bulb-outs for truck u-turns
  - Segment 14
    - Access Class 03
    - Mix of directional and full openings
    - Already had public hearing
- Proposed Design Modifications
  - Areas of paved shoulder widening to accommodate Passenger Vehicle u-turns
    - Walter wants to accommodate a larger crew-cab type pickup truck with extended bed at all u-turn locations
    - **Action: HNTB to run AutoTurn to verify that a larger pickup can make the u-turn movement**
  - Walter would like to look at the concept further and provide feedback
  - Remove opening at Sta. 1100+00
  - Remove opening at Sta. 1198+00
  - Can't easily build new loons
  - Maybe accommodate large trucks 1x per mile
  - SR 82 Lesson Learned: Sight line issue from lack of offset left turns

        - Need for offset left turns depends on future traffic volumes
    - Walter doesn't like combining a loon with a side street if the side street is expected to have any significant volume
    - Realign Old SR 8
        - Significant truck movements observed
        - Realign northern leg
        - Create 4-leg signalized intersection
        - Requires additional R/W
        - Impacts FGT transmission line
        - Need a signal warrant to construct a signal
            - Action: HNTB to perform a signal warrant analysis
        - Need ICE analysis
            - Would a roundabout work?
            - Can still construct a roundabout without a warrant
        - May want to do a cost analysis of Old SR 8 realignment
    - Several modifications between RR tracks and US 27
    - FP&L looking at expansion with driveway near SE corner of Glades Electric substation
        - Any new driveway would need to be east of the orange grove
    - Median u-turn (MUT) at US 27 is preferred option
        - Walter will verify the ICE analysis was completed
    - Unsignalized Green T at CR 29
        - Need ICE analysis
    - Reach out to Susan Joel before starting ICE analysis
        - Susan.Joel@dot.state.fl.us

**HNTB Corporation**
The HNTB Companies
Infrastructure Solutions

201 N. Franklin Street
Suite 1200
Tampa, FL 33602

Telephone (813) 402-4150
hntb.com

# MEETING MINUTES

**Project Name**
SR 70 Segments 12-14

**Date of Meeting**
February 4, 2025

**FPID(s)**
414506-3, 414506-4, 414506-5

**Location**
D1 HQ, Microsoft Teams

**Purpose of Meeting**
Analysis with Multi-Functional Team: Coordination of ROW, Parcels, Alternate Viability, Property Owner Contact, Access Conveyance Requirements, and Assessment of Aesthetic, Social, Cultural, and Environmental Impacts of Each Alternate. Confirm Sites for Preliminary & Environmental Field Work. Drainage Pond Siting & Exploratory Borings Sign-Off

**Time**
1:00 PM – 2:00 PM

**Attendees:**

- **FDOT – Brent Setchell, Eric Collier, Joe Lauk (PGA), Ryan Molloy, Brooke Feagle (AtkinsRéalis), Kathryn Cothern**
- **HNTB – Angela Shepard, Braeden Johnson, Ed Ponce, John Burton, John Fowler, John Fowler, Matt Dockins, Nic Leon, Sam Chiu**

## Agenda & Notes

**1. Introductions & Agenda**

- The primary focus of this meeting was to review pond siting progress and obtain concurrence for exploratory borings and environmental surveys to further evaluate site alternatives.

**2. Segment 14**

- LDCA is anticipated 04/2025 and re-evaluation is scheduled to be completed 12/2025.
- The Stormwater Management Facility (SMF) alternatives for the three drainage basins (three cross drains) are generally consistent with the 2023 PD&E. The updated evaluation and recommendations will incorporate most recent data collection, estimated impacts, and estimated construction costs.
    - Stormwater Management Alternative 1 (Linear Ponds)
        - Positioned within the 60-ft minimum horizontal offset, between travel lanes and adjacent canal hazards, along both sides of SR 70. The linear ponds extend throughout entire Segment 14 limits.
        - Due to profile gradient and driveway locations, multiple cells are anticipated for each of the three basins.
        - Basin 1: 16 cells
        - Basin 2: 22 cells
        - Basin 3: 13 cells
    - Stormwater Management Alternative 2 (Offsite Wet Detention Ponds)
        - Ponds are positioned adjacent to, and outfall into the agricultural canals along SR 70. Easements are required for access and conveyance from roadway into ponds, which will cross beneath the bottom of canal (canal depths vary, approximately 5-feet from

bottom to top of bank), and pond outfalls back to the canals. The corresponding maximum pond depths to accommodate deeper conveyance pipes are not expected exceed 12-feet below the normal water level.

- Potential constructability/dewatering concerns were discussed for pipes crossing beneath the canals. However, for ponds located south of SR 70, the anticipated construction phasing would allow installation of pipes prior to the relocation of the south canal.

- Basin 1: No change to the location of SMF 1 site. Some adjustment to pond size to provide entirety of required attenuation volume versus partial storage within roadway corridor.
- Basin 2: The 2023 PD&E located SMF 2 on the north side of SR 70. This location is the basis of the roadway design shown in the 30% concept plans. However, recent data collection and re-evaluation favors a SMF 2 relocation to the south side of SR 70. Improvements discussed include constructability of conveyance beneath the canal and a lower ESHWT (tailwater) between the north and south canals. The design team estimates a potential roadway profile reduction of approx. 1.5-feet if the pond is repositioned to the south.
    - Remove SMF 2 (north) and replace with SMF 2 (south) for further evaluation.
- Basin 3: No change to the location of SMF 3 site. Some adjustment to pond size to provide entirety of required attenuation volume versus partial storage within roadway corridor and pond repositioned south of the relocated canal.

- <u>Stormwater Management Alternative 3 (Regional Pond)</u>
    - No change to site location. Alternative to include both a land use swap for water quality and wet detention for water quantity.
    - Right of way, access easements, and conveyance easements will require further evaluation to verify need, appropriate designation, and avoidance of severing remnant parcel usage and access.
    - Potential utility involvement with FGT
- <u>Floodplain Compensation (FPC) Areas</u>
    - Zone A Floodplains present in majority/middle of Segment 14 limits. Modeling is the approach to define required compensation. Updates to 2023 PD&E model are in progress to incorporate latest and best available design information and confirm compensation needs. 2023 PD&E estimated 48.5 ac-ft will be required.
    - Compensating storage is generally unavailable in the middle portion of the project due to high groundwater tables but is available along each side of Zone A limits, on the west (FPC 1's) and east (FPC 2's).
    - Alternate Sites discussed:
        - FPC 1A – same location as PD&E. Remove from further evaluation due to unavailability of compensation storage (ESHWT 41.6 to 42.9 above 100-year stage 39.3) and proximity to adjacent wetland.
        - FPC 1B - same location as PD&E. Site elevations vary from 34 to 40. ESHWT at upper elevations are above 100-year stage 34.7. Some floodplain storage capacity (2 ac-ft) still available without dewatering.
        - FPC 1C – new site, 1 parcel; group of smaller sites with limited footprint to avoid impacting private infrastructure. Approximately 7.7 ac-ft compensation volume available with current footprint. Potential for expansion if needed.

- FPC 1D – new site, 2 parcels; group of smaller sites with limited footprint to avoid impacting private infrastructure. Approximately 22 ac-ft compensation volume available. Potential for expansion if needed.
- FPC 2A – same location as PD&E. Remove from further evaluation due to planned FPL solar farm and unavailability of compensation storage (ESHWT 32.5 to 34.5 above 100-year stage 31.3).
- FPC 2B – relocate north to frontage portion of same parcel due to unavailability of compensation storage at previous location. Existing ground and approx. 1.5 depth to water table at frontage location has 29+ ac-ft of compensation storage available below the 100-year stage. Potential for expansion if needed.
- FPC 2C – (was not presented during the meeting) but was added for further evaluation as a location with viable storage availability.
- FPC 2D – new site; located between conservation lands on the north side of SR 70. Approx. 0.5-ft depth to apparent water table, controlled by discharge pump. If basis of storage capacity is nearest canal ESHWT, then site is not viable. Otherwise, with a 0.5-ft depth this site could provide 28 ac-ft of storage on a 59-ac site. Remove site from further evaluation due to unavailability of storage.

- FPC siting next steps:
  - a. Complete ICPR model updates to confirm required storage volumes necessary to avoid increasing watershed 100-year stages. Compare required storage volumes to available storage capacity at alternate sites and combine sites as necessary to group into three independent alternatives.
  - b. If a minimum of three viable alternatives are not available, the PSR will include supporting justification and clarification why remaining parcels have been removed from consideration.
  - c. If total available storage is insufficient, incorporate WRE future improvements in model and quantify the storage benefit during the 100-year event as a potential supplement to available FPC sites.
- FDOT Drainage concurred request to proceed with exploratory borings and environmental surveys on remaining alternative FPC sites with available storage including: FPC 1B, FPC 1C, FPC 2B (relocated), FPC 1D, and FPC 2C (new).

**3. Segment 13**

- LDCA has been shifted to beyond 06/28/2026. The pond siting is using the new water quality criteria.
- Stormwater Management
  - Basin 1303
    - An open basin within an impaired WBID.
    - Alternative 1 consists of SMF 1303A (wet pond) at SE corner of SR 70 and CR 29, and SMF 1303D (dry linear pond). SMF 1303D is added to upstream of the seepage slope to meet the new water quality criteria.
      - FDOT Drainage indicated that the latest guidance from CO is to use the ditch front slope and ditch block as a mean of nutrient removal to help meet new water quality criteria. Adding pond would not be the first solution.
      - HNTB added that SMF 1303D is located within the existing roadway right-of-way.
    - Alternative 2 consists of SMF 1303B (dry pond) at the NE corner of SR 70 and CR 29.
    - Alternative 3 consists of SMF 1303C (dry pond) at the SW corner of SR 70 and CR 29.

        - All three alternatives are located at the east end of the basin due to topography.
    - Basin 1302
        - A closed basin within an impaired WBID.
        - Alternative 1 consists of SMF 1302A (dry pond) between Highlands Blvd and Citrus Blvd. This alternative is located at the main depression.
        - Alternative 2 consists of SMF 1302B (dry pond) east of Citrus Blvd. This alternative is located at the secondary depression.
        - Alternative 3 consists of SMF 1302C (dry pond) at the SE corner of SR 70 and Turner Rd. This alternative is placed partially outside the closed basin.
    - Basin 1301
        - A closed basin within an impaired WBID.
        - Alternative 1 consists of SMF 1301A (dry pond) south of SR 70 and west of Brevard Ave.
        - Alternative 2 consists of SMF 1301B (dry pond) at the NE corner of SR 70 and Ekhoff Ln.
        - Alternative 3 consists of SMF 1301C (dry pond) at the NW corner of SR 70 and Brevard Ave.
        - All three alternatives are located near the cross drain, which is the at the bottom of the basin.
        - FDOT Drainage inquired where does the cross drain and channel drain to. HNTB clarified that it drains to the closed basin to the northeast.
- <u>Floodplain Compensation Areas</u>
    - Floodplain Impact Area (FIA) 1309
        - A depression is located south of SR 70 and 800-feet east of Bear Rd. This depression receives both onsite and offsite contributing areas in conjunction with the depression located behind a private single-family home.
        - Alternative 1 consists of FPC 1309A, which is located upstream of the depression at a higher elevation. This alternative intends to provide the required storage before the runoff contribute to the reduced depression.
        - Alternative 2 was discussed regarding placing a FPC west of the private property; however, this would result in surrounding the private single-family home with depressional storage on the west and south sides and the proposed roadway to the north side. Additional discussion with roadway and right-of-way to determine if this property requires to be whole-take given the roadway tie-down slope is adjacent to the private single-family home.
    - FIA 1308
        - Five isolated depressions are located on both sides of SR 70 from east of Citrus Blvd to east of Bear Rd. These depressions receive both onsite and offsite contributing areas.
        - An FPC was identified south of SR 70 at Bear Rd in the previous PD&E, which the floodplain elevations were determined using the NRCS equations.
        - A localized ICPR model with percolation links was created with this project to simulate the 100-year flood stage, which determined the impacts being minimal.
        - HNTB suggested obtaining geotechnical data to validate the perc link data. If confirmed, no FPC will be proposed. FDOT Drainage concurred with the approach.
    - FIA 1307
        - An isolated depression located north of SR 70 from Highlands Blvd to Citrus Blvd. The encroachment is due to the proposed SMF, which is sized to include the loss of existing storage.

- FIA 1306
  - An isolated depression is located at the southwest corner of SR 70 and Highlands Blvd.
  - Alternative 1 consists of FPC 1306A, which is located immediately east of the floodplain.
  - Given the location of the isolated depression, the compensation needs to occur within parcel C03383001000A00000 due to the hydraulics connectivity. No other alternatives have been identified. FDOT Drainage concurred with the approach.
- FIA 1305
  - Two isolated depressions located north of SR 70 from Broward Ave to Citrus Blvd. The encroachment is minor and demonstrate by comparing the loss of existing storage and the reduction in contributing area in these depressions.
- FIA 1303
  - An isolated depression is located at the south of SR 70 at Broward Ave.
  - Alternative 1 consists of FPC 1303A, which is located immediately south of the floodplain.
  - Given the location of the isolated depression, the compensation needs to occur within parcel C03383001000A00000 due to the hydraulics connectivity. No other alternatives have been identified. FDOT Drainage concurred with the approach.
- FIA 1301
  - A low area is located at the cross drain between Ekhoff Ln and Brevard Ave.
  - This area is not mapped as a floodplain in the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM).
  - A localized ICPR model with percolation links was created with this project to simulate the 100-year flood stage, which determined there are impacts to the loss of storage.
  - Alternative 1 consists of FPC 1301A, which is located north of the cross drain. This alternative will only be compatible with SMF 1301A as it is partially overlapped with SMF 1301B and SMF 1301C.
  - Alternative 2 consists of FPC 1301B, which is located southwest of the cross drain.

**4. Segment 12**

- LDCA has been shifted to beyond 06/28/2026. The pond siting is using the new water quality criteria.
- Stormwater Management
  - Basin 1204
    - A closed basin within an impaired WBID.
    - Alternative 1 consists of SMF 1204A (dry pond) north of SR 70 and 1,000-feet west of US 27.
    - Alternative 2 consists of SMF 1204B (dry pond) at NW corner of SR 70 and US 27.
    - Alternative 3 consists of SMF 1204C (dry pond) west of US 27 and 650-feet south of SR 70.
      - FDOT Drainage inquired about the conveyance from SR 70 to the pond. FDOT Drainage asked if there are existing conveyance is in place or if modifications are required.
      - HNTB indicated there is existing roadside ditch; however, closed storm drain system may be needed under the ditch such that only SR 70 runoff being contributed to the pond.
    - All three alternatives are located at the east end of the basin due to topography.

        - FDOT Drainage inquired about the outfall locations of the alternatives. HNTB indicated that these closed basin ponds should be discharging to the nearest isolated depression, but will verify after the meeting.
    - Basin 1203
        - An open basin within an impaired WBID.
        - Alternative 1 consists of SMF 1203A (dry pond) and SMF 1203D (dry pond), which both are located north of SR 70 and east of the rail track. SMF 1203D is the remanent space due to the proposed Old SR 8 realignment.
        - Alternative 2 consists of SMF 1203B (dry pond) and SMF 1203D (dry pond). SMF 1203B is located north of SR 70 and 1,150-feet east of the rail track.
        - Alternative 3 consists of SMF 1203C (dry pond) and SMF 1203D (dry pond). SMF 1203C is located south of SR 70 and 600-feet east of the rail track.
    - Basin 1202
        - An open basin within an impaired WBID.
        - Alternative 1 consists of SMF 1202A (dry pond) north of SR 70 and 1,450-feet west of rail track.
        - Alternative 2 consists of SMF 1202B (dry pond) 3,700-feet north of SR 70 near Lake Placid. This was the regional alternative in the previous PD&E. This alternative requires a lengthy storm drain conveyance along Worley Rd.
        - Alternative 3 consists of SMF 1202C (dry pond) at NW corner of SR 70 and Worley Rd.
        - All three alternatives have likely involvement with FGT.
        - FDOT Drainage inquired if SMF 1202A is located inside a FWC interested parcel. HNTB indicated that this is not one of the FWC interested parcels, but will verify after the meeting.
- <u>Floodplain Compensation Areas</u>
    - The FEMA FIRMs within Segment 12 are dated November 2015.
    - The initial PD&E Study used the Lake Placid Watershed model (2014) as the best available information, which is depicting more floodplains than the FEMA FIRMs.
    - FIA 1214
        - Floodplains are located along both sides of SR 70 from the rail track to east of Distribution Blvd.
        - Alternative 1 consists of three FPC sites (FPC 1214A, FPC 1214C, and FPC 1214D) due to the shallow groundwater table.
            - FPC 1214A is located in parcel C1837300100AA00000 on the north side of SR 70 and will require an easement.
            - FPC 1214C is located in parcel C053830A0000300000 on the south side of SR 70 and will require an easement in parcel C323730A0000100000.
            - FPC 1214D is located in parcel C1837300100AA00000 and C323730A0000700000 on the north side of SR 70.
        - Alternative 2 consists of three FPC sites (FPC 1214B, FPC 1214C, and FPC 1214D) due to the shallow groundwater table.
            - FPC 1214B is located in parcel C323730A0000600000 on the north side of SR 70.
            - FPC 1214C and FP1214D are the same as Alternative 1.
        - FDOT Drainage is concerned with the size of the compensation area relative to the impact area.

- After inquiring about modeling scope, FDOT Drainage suggested proceeding as a worst-case scenario and allowing Design-Build (D/B) to perform additional ICPR modeling.
- FDOT PM emphasized the needs for right-of-way acquisition.
- FDOT Drainage suggested investigating other solution, such as upsizing pipes across Old SR 8 and R/R to lower the stages in FIA 1214.
- FDOT Drainage acknowledged that modeling will likely be needed for the permit application with SWFWMD.
- HNTB will investigate further.

  - FIA 1213
    - Floodplains are located along both sides of SR 70 from 1,600-feet west of the rail track to the rail track.
    - Alternative 1 consists of FPC 1213A, which is located immediately next to SMF 1202A.
    - Alternative 2 consists of FPC 1213B, which is located north of Lake Annie in parcel C18373001013730000.
  - FIA 1211
    - Floodplains are located along both sides of SR 70 from west of Nursey Ln to east of Worley Rd. Some of the impacts are located within the Archbold parcel.
    - FPC cannot be placed inside the Archbold property due to the conservation area.
    - Alternative 1 consists of FPC 1211A, which is located in the parcel (C063830A0000100000) immediately west of the Archbold property.
    - Alternative 2 consists of FPC 1213B, which is located north of SR 70 in parcel C313730A0000120000. The FPC will be bermed up and connect to the floodplain on the south side via a culvert.

**5. Items not discussed**

- Due to the time constraints, these topics were not fully discussed and tabled to the next checkpoint meeting:
  - Segment 12
    - Stormwater Management
      - Basin 1201
    - Floodplain Compensation Areas
      - FIA 1201
      - FIA 1203
      - FIA 1205
      - FIA 1206
      - FIA 1208
  - Segment 13
    - Seepage slope floodplain

**HNTB Corporation**
The HNTB Companies
Infrastructure Solutions

201 N. Franklin Street
Suite 1200
Tampa, FL 33602

Telephone (813) 402-4150
hntb.com

# MEETING MINUTES

**Project Name**
SR 70 Segments 12-14

**Date of Meeting**
March 7, 2025

**FPID(s)**
414506-3, 414506-4, 414506-5

**Location**
D1 HQ, Microsoft Teams

**Purpose of Meeting**
Coordination of ROW, Parcels, Alternate Viability, Access Conveyance Requirements, and Assessment of Aesthetic, Social, Cultural, and Environmental Impacts of Each Alternate. Discuss preliminary impacts, costs and recommended alternatives.

**Time**
9:30 AM – 11:00 AM

**Attendees:**

- **FDOT – Brent Setchell, Joe Lauk (PGA), Ryan Molloy**
- **HNTB – Angela Shepard, Braeden Johnson, Ed Ponce, John Burton, John Fowler, Matt Dockins, Nic Leon, Sam Chiu**

## Agenda & Notes

### 1. Introductions & Agenda

- The primary focus of this meeting was to review pond siting progress (especially for the alternatives that were not covered in the previous meeting), estimated impacts and costs. Some preliminary recommended alternatives were discussed and alternative approaches, such as acquisition of flood rights were identified for several floodplain compensation areas.

### 2. Segment 14

- LDCA is anticipated 04/2025 and re-evaluation is scheduled to be completed 12/2025.
- The Stormwater Management Facility (SMF) alternatives for the three drainage basins (three cross drains) are generally consistent with the 2023 PD&E. The updated evaluation and recommendations will incorporate most recent data collection, estimated impacts, and estimated construction costs.
    - Stormwater Management Alternative 1 (Linear Ponds)
        - Positioned within the 60-ft minimum horizontal offset, between travel lanes and adjacent canal hazards, along both sides of SR 70. The linear ponds extend throughout entire Segment 14 limits.
        - Due to profile gradient and driveway locations, multiple cells are anticipated for each of the three basins.
        - Basin 1: 16 cells
        - Basin 2: 30 cells
        - Basin 3: 19 cells

- Stormwater Management Alternative 2 (Offsite Wet Detention Ponds) (Preliminary Recommended Alternative)
  - Ponds are positioned adjacent to, and outfall into the agricultural canals along SR 70. Easements are required for access and conveyance from roadway into ponds, which will cross beneath the bottom of canal and pond outfalls back to the canals.
- Stormwater Management Alternative 3 (Regional Pond)
  - Alternative to be relocated and redefined from a facility where project runoff is collected and conveyed into, to a facility that diverts a portion of the existing north-south canal that is connected to the C-41. The objective of the redefined alternative is to meet water quantity and water quality requirements through increased detention of the canal (at Node N-0630). The land use swap for water quality may still be required.
    - Potential utility involvement with FGT
- C-41 Control Structure for both SMF and FPC:
  - The evaluation of a new alternative was requested to consider meeting the project's water quantity, water quality, and floodplain compensation needs (through reduction of peak tailwater stages) by the creation of a new control structure within the C-41 canal, owned and maintained by SFWMD, just north of the SR 70 bridge. This alternative would need to be validated that it does not introduce any adverse upstream impacts. It was noted some of the adjacent properties are conservation land with planned wetland restoration activities that may tolerate an increase in tailwater.
- Floodplain Compensation (FPC):
  - Zone A Floodplains present in majority/middle of Segment 14 limits. Modeling is the approach to define required compensation. Updates to 2023 PD&E model have confirmed that identified FPC sites (total 109 ac-ft) are not able to alleviate stage increases within the watershed caused by the estimated 128 ac-ft storage loss due to the proposed roadway.
  - Canal relocation, existing and future ownership is also a factor.
  - A recommended alternative is not yet determined, but the FPC Alternatives were redefined in this meeting to the following:
    - 1. FPC siting approach that combines all sites identified into a single alternative, with aim to avoid any stage increases within the watershed. In this alternative, the relocated canal would be restored to existing conditions.
    - 2. Flood rights acquisition approach that provides no proposed storage in addition to the SMF sites. The relocated canal would be restored to existing conditions, and the locations where resulting 100-year stages now encroach where previously did not would be mapped and sent to FDOT ROW for estimated flood rights cost.
    - 3. Flood rights acquisition approach that relocates the south canal to more stable and maintainable front and back slopes (1:3) and a wider channel bottom to reduce stage increases. Locations where resulting 100-year stages now encroach were previously did not would be mapped and sent to FDOT ROW for estimate flood rights cost. This alternative would include additional ROW and maintenance costs for FDOT ownership of the relocated south canal.

**3. Segment 13**

- All the site-specific preliminary geotechnical data was received recently.
- Some SHGWT comes back higher, and those alternatives are undergoing modification.

**4. Segment 12**

- Due to the time constraints in the previous meeting, some basins and floodplain impact areas (FIAs) were not discussed.
- LDCA has been shifted to beyond 06/28/2026. The pond siting is using the new water quality criteria.
- Stormwater Management
    - Basin 1201
        - An open basin within an impaired WBID and is contributing to the Placid Lakes Highlands OFW.
        - This basin is located directly adjacent to the conservation area.
        - Alternative 1 consists of SMF 1201A and SMF 1201D.
            - SMF 1201A is an offsite pond located south of SR 70 in parcel C013829A0000500000, immediately west of the FWC parcel. This SMF is a wet pond based on the preliminary geotechnical data.
            - In order to meet the 95% nutrient removal criteria, onsite linear ponds are needed for pre-treatment as SMF 1201D.
            - FDOT Drainage noted that a potential closed storm drain may be needed to cross the wildlife crossing bridge.
        - Alternative 2 consists of SMF 1201B and SMF 1201E.
            - SMF 1201B is an offsite pond located south of SR 70 in parcel C063830A0000100000, immediately east of the FWC parcel. This SMF is a wet pond based on the preliminary geotechnical data.
            - In order to meet the 95% nutrient removal criteria, onsite linear ponds are needed for pre-treatment as SMF 1201E.
            - FDOT Drainage noted that a potential closed storm drain may be needed to cross the wildlife crossing bridge.
        - Alternative 3 consists of SMF 1201C.
            - SMF 1201C includes onsite linear ponds within the proposed roadway ROW.
            - SMF 1201C more cells than SMF 1201D and SMF 1201E, but is taking advantage of the wide roadway ditches due to FPL.
            - FDOT Drainage noted that this option is favorable (pending cost estimate) due the adjacent conservation areas.
        - Linear ponds and base clearance water elevation (BCWE)
            - FDOT Drainage Manual requires the BCWE be set at the weir when there are linear ponds. Lower elevation may be used at special cases.
            - Currently, the roadway profile is based on geotechnical data, biological indicator, and stain lines. The potential linear pond weirs have not been accounted.
            - HNTB inquired if FDOT will allow the use of the SHGWT to set the BCWE in the area with linear ponds (especially in the area with non HSG Type A soils). If it is not permitted, the cost of additional roadway embankment and mainline ROW would be needed to accommodate the linear ponds.
            - FDOT Drainage will need an email on this potential criteria deviation.

- Basin 1202
  - An open basin within an impaired WBID.
  - The site-specific preliminary geotechnical data shows a lower SHGWT than original estimate. SMF sizes reduction may be possible.
  - Alternative 1 consists of SMF 1202A (dry pond) north of SR 70 and 1,450-feet west of rail track.
  - Alternative 2 consists of SMF 1202B (dry pond) 3,700-feet north of SR 70 near Lake Placid. This was the regional alternative in the previous PD&E. This alternative requires a lengthy storm drain conveyance along Worley Rd.
  - Alternative 3 consists of SMF 1202C (dry pond) at NW corner of SR 70 and Worley Rd.
  - FDOT Drainage noted that all three ponds are located in the same parcel (C18373001015000000).
    - HNTB noted that the constraints of the conservation area to the west and wetland to the east.
  - As a follow-up to the previous meeting, HNTB confirmed that this is not one of the FWC interested parcels.
- Basin 1203
  - An open basin within an impaired WBID.
  - The site-specific preliminary geotechnical data shows a higher SHGWT than original estimate.
  - Alternative 1 consists of SMF 1203A (wet pond) and SMF 1203D (wet pond), which both are located north of SR 70 and east of the rail track. SMF 1203D is the remanent space due to the proposed Old SR 8 realignment.
    - In order to meet the 95% nutrient removal criteria, onsite linear ponds are needed for pre-treatment as SMF 1203E.
  - Alternative 2 consists of SMF 1203B (wet pond) and SMF 1203D (wet pond). SMF 1203B is located north of SR 70 and 1,150-feet east of the rail track.
    - In order to meet the 95% nutrient removal criteria, onsite linear ponds are needed for pre-treatment as SMF 1203E.
  - Alternative 3 consists of SMF 1203C (wet pond) and SMF 1203D (wet pond). SMF 1203C is located south of SR 70 and 600-feet east of the rail track.
    - In order to meet the 95% nutrient removal criteria, onsite linear ponds are needed for pre-treatment as SMF 1203E.
  - FDOT Drainage inquired about the outfall locations. HNTB clarified the linear ponds would discharge into the offsite ponds, which then discharge northwestern direction.
- Basin 1204
  - A closed basin within an impaired WBID.
  - The alternatives were modified to avoid the downstream depression.
  - Alternative 1 consists of SMF 1204A (dry pond) north of SR 70 and 1,000-feet west of US 27. The site-specific preliminary geotechnical data shows a percolation rate.
  - Alternative 2 consists of SMF 1204B (dry pond) at NW corner of SR 70 and US 27.
    - FDOT Drainage inquired how the roadway runoff will reach this pond.
    - HNTB clarified that it will likely be conveyed with a closed storm drain systema long US 27.
  - Alternative 3 consists of SMF 1204C (dry pond) west of US 27 and 650-feet south of SR 70. The preliminary assessment has encroachment into the depression. A standalone FPC could be added next to the SMF.

- Floodplain Compensation Areas
  - Floodplain Impact Area (FIA) 1201
    - Floodplain is located along the north side of SR 70 from east of Placid Lakes Blvd to west of Park Land Dr.
    - This FIA is located directly within the conservation area.
    - Alternative 1 consists of FPC 1201A at the southeast corner of SR 70 and Placid Lakes Blvd. The FPC will be bermed up and connect to the floodplain on the north side via a culvert.
    - Alternative 2 consists of obtaining flood right within the conservation area. Additional modeling would likely be necessary for this alternative.
      - FDOT Drainage concurred to explore this further. FDOT Drainage will coordinate with FDOT OEM.
  - FIA 1203
    - Floodplains are located along both side of SR 70 from east of Placid Lakes Blvd to 1,440-feet west of Placid View Dr.
    - The northern FIA is located directly within the conservation area.
    - The 100-year peak stage in the southern floodplain is nearly 2-feet higher than the northern floodplain.
    - Alternative 1 consists of FPC 1203A for the southern impacts, and floodplain modeling for the northern impacts.
      - FPC 1203A is located along the southern edge of parcel C023829A0000200000.
    - Alternative 2 consists of FPC 1203B for the southern impacts, and floodplain modeling for the northern impacts.
      - FPC 1203B is located along the private access road within parcel C023829A0000200000.
    - FDOT Drainage and HNTB discussed Alternative 3 on improving the culverts under SR 70 to lower the southern floodplain to offset the encroachment, and obtaining flood right within the conservation area.
      - FDOT Drainage concurred to explore this further. FDOT Drainage will coordinate with FDOT OEM.
  - FIA 1205
    - Floodplains are located along both side of SR 70 west of Placid View Dr.
    - The northern FIA is located directly within the conservation area.
    - Alternative 1 consists of FPC 1205A, which is located west of the channel within parcel C023829A0000800000.
    - Alternative 2 consists of FPC 1205B, which is located east of the channel within parcel C023829A0000800000.
    - FDOT Drainage and HNTB discussed Alternative 3 on improving the culverts under SR 70 to lower the southern floodplain to offset the encroachment, and obtaining flood right within the conservation area.
      - FDOT Drainage concurred to explore this further. FDOT Drainage will coordinate with FDOT OEM.
  - FIA 1206
    - Floodplains are located along both side of SR 70 east of Placid View Dr.
    - The northern FIA is located directly within the conservation area.
    - Alternative 1 consists of FPC 1206A, which is located west of the channel within parcel C013829A0000600000.

- Alternative 2 consists of FPC 1206B, which is located east of the channel within parcel C013829A0000600000.
- FDOT Drainage and HNTB discussed Alternative 3 on improving the culverts under SR 70 to lower the southern floodplain to offset the encroachment, and obtaining flood right within the conservation area.
    - FDOT Drainage concurred to explore this further. FDOT Drainage will coordinate with FDOT OEM.

- FIA 1208
    - Floodplains are located along both side of SR 70 from 2,350-feet west of Monroe St to 500-feet west of Monroe St.
    - The northern FIA is located directly within the conservation area.
    - The portion of the southern FIA is located directly within the FWC parcel.
    - Alternative 1 consists of FPC 1208A, which is located south of SR 70 in parcel C013829A0000500000, immediately west of the FWC parcel. The FPC will connect to the floodplain via a culvert.
    - Alternative 2 consists of FPC 1208B, which is located south of SR 70 in parcel C063830A0000100000, immediately east of the FWC parcel. The FPC will connect to the floodplain via a culvert.
    - FDOT Drainage and HNTB discussed Alternative 3 on improving the culverts under SR 70 to lower the southern floodplain to offset the encroachment, and obtaining flood right within the conservation area.
        - FDOT Drainage concurred to explore this further. FDOT Drainage will coordinate with FDOT OEM.
- FIA 1214
    - HNTB evaluated about upsizing the culvert under Old SR 8 and R/R to lower the stages in FIA 1214. The preliminary results show that upsizing the culverts do not affect the flood stages at SR 70.
    - HNTB suggested modeling the compensation areas to reduce the FPC footprint. FDOT Drainage concurred.

**HNTB Corporation**
The HNTB Companies
Infrastructure Solutions

201 N. Franklin Street
Suite 1200
Tampa, FL 33602

Telephone (813) 402-4150
hntb.com

# MEETING MINUTES

**Project Name**
SR 70 Segments 12-14

**Date of Meeting**
July 28, 2025

**FPID(s)**
414506-3, 414506-4, 414506-5

**Location**
D1 HQ, Microsoft Teams

**Purpose of Meeting**
PSR Checkpoint 3 discussion prior to Final PSR submittal.

**Time**
10:00 AM – 12:00 PM

**Attendees:**

- **FDOT – Joe Lauk (PGA), Brent Setchell, Ryan Molloy, Brook Feagle**
- **HNTB – Gordon Mullen, John Burton, John Fowler, Brett Hensley, Nic Leon, Sam Chiu, Braeden Johnson, Sammy Huey, Angela Shepard, Eugene Garrick, Jackson Glover**

## Agenda & Notes

**1. Introductions & Agenda**

- Confirm final pond siting recommendations.

**2. Segment 12**

- Stormwater Management
  - Basin 1201
    - An open basin within an impaired WBID and is contributing to the Placid Lakes Highlands OFW.
    - Alternative 1 consists of 14 dry linear pond cells (SMF 1201D) and one offsite wet pond (SMF 1201A).
    - Alternative 2 consists of 14 dry linear pond cells (SMF 1201E) and one offsite wet pond (SMF 1201B).
    - Alternative 3 consists of 43 dry linear pond cells (SMF 1201C).
    - Alternative 3 is the preferred alternative.
      - Discussed the preferred alternative assuming BCWE can be based on the 24-hour stage of the linear pond (instead of the weir elevation), which will require a deviation approval from District Drainage.
      - Discussed the preferred alternative may require a lower base clearance requirement based on the site specific geotech data and ICPR modeling. Profile adjustment is not feasible due to the conservation land to the north.
  - Basin 1202
    - An open basin within an impaired WBID.
    - Three alternatives have been identified. Each alternative consists of an offsite dry pond.
    - Alternative 1 (SMF 1202A) is the preferred alternative.
      - The pond's outfall is through the FPC site to the east.
  - Basin 1203

        - An open basin within an impaired WBID.
        - Three alternatives have been identified. Due to the realignment of Old SR 8, the site SMF 1203D is common to all three alternatives.
        - Alternative 1 consists of one dry linear pond cell (SMF 1203E) and two offsite wet ponds (SMF 1203A and SMF 1203D).
        - Alternative 2 consists of three dry linear pond cells (SMF 1203F) and two offsite wet ponds (SMF 1203B and SMF 1203D).
        - Alternative 3 consists of two dry linear pond cells (SMF 1203F) and two offsite wet ponds (SMF 1203C and SMF 1203D).
        - Alternative 1 is the preferred alternative.
            - FDOT PM inquired about the existing access from Old SR 8 to the nursery. HNTB to verify with FDOT R/W if the impact cost include cost to cure.
    - Basin 1204
        - A closed basin within an impaired WBID.
        - Three alternatives have been identified. Each alternative consists of an offsite dry pond.
        - Alternative 1 (SMF 1204A) is the preferred alternative.
- <u>Floodplain Compensation Areas</u>
    - Floodplain Impact Area (FIA) 1201, FIA 1203, FIA 1205, and FIA 1206
        - One offsite alternative has been identified for FIA 1201.
        - Two offsite alternatives have been identified for FIA 1203, FIA 1205, and FIA 1206.
        - Flood right alternative was discussed in previous meeting.
            - Per the email from FWC on July 1, 2025, FWC is open to flood right alternative in lieu of any additional acreage of FPC in the Wildlife Management Area (WMA).
            - After the Pond Siting stage, HNTB will need expand scopes to model the mean annual through the 100-year storm event to show the stage increases. The model also should show the recovery timeframe.
            - HNTB to update graphic of the anticipated flood right for FDOT Drainage to continue coordination with FWC.
            - HNTB to obtain R/W or easement cost from FDOT R/W for the flood rights.
            - Flood right alternative should have no impacts to environmental, archaeological, cultural and contamination.
        - FDOT PM indicated that the non-preferred offsite alternative does not need to be shown in the NRE, CRAS, and CSER.
    - FIA 1208
        - Two offsite alternatives have been identified.
        - Flood right alternative was discussed in previous meeting, but was not in the list to FWC.
        - HNTB to provide graphic of the anticipated flood right for FDOT Drainage to coordination with FWC.
    - FIA 1211
        - Two offsite alternatives have been identified.
        - Alternative 2 (FPC 1211B) is the preferred alternative.
            - This alternative will likely require a submerged pipe connecting the FPC to the impacted area to the south.
            - It is a smaller site when compared to FPC 1211A (which has a higher ground elevation); therefore, it yields a lower R/W cost.

    - FIA 1213

- Two offsite alternatives have been identified.
- Alternative 1 (FPC 1213A) is the preferred alternative.
    - This alternative has less wetland impacts.

- FIA 1214
    - Alternative 1 consists for FPC 1214A, FPC 1214C, and FPC 1214D.
    - Alternative 2 consists for FPC 1214B, FPC 1214C, and FPC 1214D.
        - FDOT Drainage inquired if the southern parcel can be full take, expand FPC 1214C, and reduce FPC 1214B/FPC 1214D.
        - HNTB indicated that the remaining areas are already floodplains.

**2. Segment 13**

- Stormwater Management
    - Basin 1301
        - A closed basin within an impaired WBID.
        - Three alternatives have been identified. Each alternative consists of an offsite dry pond.
        - It was noted that SMF Alternative 3 (SMF 1301C) occupies the same space as FPC Alternative 1 (FPC 1301A); therefore, SMF and FPC should be considered together.
        - SMF Alternative 1 (SMF 1301A) and FPC Alternative 1 (FPC 1301A) are the preferred alternative.
    - Basin 1302
        - A closed basin within an impaired WBID.
        - Three alternatives have been identified. Each alternative consists of an offsite dry pond.
        - Alternative 2 was the initial site from the previous PD&E study, but it has high risk on species.
        - Alternative 3 (SMF 1302C) is the preferred alternative.
    - Basin 1303
        - A closed basin within an impaired WBID.
        - Three alternatives have been identified.
        - Alternatives 1 and 2 consist of an offsite dry pond (SMF 1303A and SMF 1303B, respectively). Alternative 3 consist of four dry linear pond cells (SMF 1303D and SMF 1303E) and one offsite wet pond (SMF 1303C).
        - Alternative 1 (SMF 1303A) is the preferred alternative.
- Floodplain Compensation Areas
    - FIA 1301
        - Two offsite alternatives have been identified.
        - It was noted that SMF Alternative 3 (SMF 1301C) occupies the same space as FPC Alternative 1 (FPC 1301A); therefore, SMF and FPC should be considered together.
        - SMF Alternative 1 (SMF 1301A) and FPC Alternative 1 (FPC 1301A) are the preferred alternative.
    - FIA 1303
        - One offsite alternative has been identified given the impact to FIA 1303 is an isolated depression.
        - FDOT Drainage inquired if the FPC provides account for the potential impact to the internal agricultural access for the property owner. HNTB to verify with FDOT R/W if the impact cost include cost to cure.
        - Alternative 1 (FPC 1303A) is the preferred alternative.
    - FIA 1306

        - One offsite alternative has been identified given the impact to FIA 1306 is an isolated depression.
        - Alternative 1 (FPC 1306A) is the preferred alternative.
    - FIA 1309
        - Two offsite alternatives have been identified.
        - Alternative 1 consists of diverting the offsite runoff from the high-fill area into the roadway R/W via an offsite swale. A retaining wall will also be needed along the back of shared use path to reduce impacts.
        - Alternative 2 consists of an offsite alternative south of the FIA.
        - FDOT Drainage inquired if the residential parcel considered per previous meetings. HNTB indicated that the roadway R/W has not confirmed the need to whole take the residential property. However, a third alternative can be considered given the proposed roadway R/W is near the residential building.
- ERC Comment
    - The following ERC comment was received for the Draft PSR: *The proposed project will require substantial fill for the proposed typical section for that segment beyond the "ridge" and into the flat "plains" on the eastern portion of the project. Please estimate the embankment fill that may be necessary within the "plains" and the borrow that will become available with the preferred SMF sites and FPC sites along the ridge. This could help determine whether it would be cost effective to provide cup-for-cup FPC or reduce or eliminate FPC by further detailed analysis.*
        - HNTB indicated that PSR is currently based on volumetric basis, not modeling. HNTB also indicated that the corridor program is likely require imported fill.
        - FDOT Drainage concurred to stay with the current methodology, especially due to the depressions along the project.

**4. Segment 14**

- The three stormwater alternatives (A, B, and C) matrix and kmzs were reviewed with FDOT.
    - Water quality requirements for Segment 14 are grandfathered to old rules.
    - Stormwater design is being governed by SFWMD maximum allowable discharge criteria for the Harney Pond Canal (C-41), which was previously confirmed in the pre-application meeting in 2024. Alternatives A and B meet this criteria through use of minimum bleed-down device sizes. Although the regional pond provides a significant decrease in peak discharge from pre to post, the control structure for Alternative C does not meet the maximum CFM.
    - FDOT concurred that Wet Detention (Alt B) remains the recommended alternative.
    - No significant changes were made to the recommended wet detention alterative SMFs from draft to final, but slight adjustments were incorporated based on new survey information.
    - FDOT had concerns regarding maintenance access due to the anticipated depth of pipes into the SMF ponds. If selected as the preferred alternative, the conveyance system placement (currently shown along the pond berm) will be optimized for maintenance accessibility during the design phase.
    - SMF Alt A high costs include the additional earthwork required to both raise the roadway profile and expand right of way to meet dry pond recovery and base clearance criteria.
- The three FPC alternatives matrix and kmzs were reviewed with FDOT.
    - Alternative 1 is the combination of all FPC sites. Alternative 2 only replaces the existing canal in kind, and alternative 3 improves the relocated canal on the south side of SR 70 with additional storage and side drain capacity. All alternatives require some amount of flood rights.

- FDOT concurred that Alternative 3 remains the preferred alternative. Although it is not the lowest cost option, it provides an overall flood reduction benefit versus Alternative 2.
- Most of the flood stage increases are within existing FEMA Zone A areas and within agricultural land uses. However, there is one residential structure near SMF 1 which is positioned near an increase in peak stage. There is also an active caracara nest adjacent to the east side of SMF 1.
- Smaller storm events, such as mean annual, 5-year, 10-year, and 25-year will be run in the design phase to help inform flood rights agreements. The duration of peak stages and recovery may also be an important factor.
- Potential approaches to flood rights acquisition were discussed.
    - Joe asked how flood rights easements would be established?
        - Elevation based, curvilinear feature would be difficult to establish "metes and bounds"
        - Given the large extent of the flood shapes, Brent mentioned that the survey of all locations would not be reasonable.
        - An alternative could be a conservative placement, such as defining a safe upland line, sufficiently above the peak stage.
        - Another alternative could be to include the whole parcel and noting "all lands lying below elevation xx within said parcel."
    - Flood rights agreements would need to establish the right to increase the peak stage within areas and preclude property owners from filling in the floodplain otherwise their property may be subject to further increases in peak stages.

**5. Action items:**

- Segment 12
    - HNTB to verify with FDOT R/W if the impact cost include cost to cure for the access driveway for SMF 1203A.
    - HNTB to provide update graphic of the anticipated flood right for FDOT Drainage to continue coordination with FWC for FIA 1201, FIA 1203, FIA 1205, FIA 1206, and FIA 1208.
    - HNTB to provide recovery timeframe after the modeling for FIA 1201, FIA 1203, FIA 1205, FIA 1206, and FIA 1208.
- Segment 13
    - HNTB to verify with FDOT R/W if the impact cost include cost to cure for internal agricultural access for FPC 1301A.
    - HNTB to add a third alternative at the residential parcel for FIA 1309.
- Segment 14
    - Obtain additional information on the finished floor elevation of the structure adjacent to SMF 1.
    - Verify model conditions near SMF 1 to confirm flood rights requirements and proximity to the existing structure. Verify if additional improvements, outside of the current alternatives, are necessary to incorporate into the PSR.

## Sammy Huey

**From:** Carey, Donald S. <dcarey@highlandsfl.gov>
**Sent:** Wednesday, July 8, 2026 2:24 PM
**To:** Lauk, Joe; BCC CE Engineering
**Cc:** BCC CI Stormwater; Matthew Dockins; Cothern, Kathern
**Subject:** Re: FPID 414506-1 / State Road 70 from Jefferson Ave to CR 29 / Highlands County LHR Outreach

External Email: Use caution when clicking on links, replying, or opening attachments.

Joe,

The FDOT's approach appears to be generally consistent with the Highlands County floodplain management programs; the County does not have newer data beyond the FEMA FIRMs from 2015-11-18 and the SWFWMD Lake Placid Watershed Study. I would note that, approximately, the eastern three miles of the project lie outside the boundary of the Lake Placid Watershed Study. As the project is greater than 5 acres, where the base flood elevations are not included on the applicable flood insurance rate map (FIRM) or in the flood insurance study (FIS), such elevations shall be established in accordance with currently accepted engineering practices. (12.12.505.A.4. & 12.12.505.B.1)

If you have any questions, please do not hesitate to reach out.

Thank you,
Donald

**Donald S. Carey, P.E.**
Assistant County Engineer—Stormwater
Highlands County Board of County Commissioners
(863) 446-3877 (m)
505 S. Commerce Ave, Sebring, FL, 33870
dcarey@highlandsfl.gov
www.highlandsfl.gov

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**From:** Lauk, Joe <Joe.Lauk@dot.state.fl.us>
**Sent:** Wednesday, July 1, 2026 5:08 PM
**To:** BCC CE Engineering <engineering@highlandsfl.gov>
**Cc:** BCC CI Stormwater <stormwater@highlandsfl.gov>; Matthew Dockins <mdockins@hntb.com>; Cothern, Kathern <Kathern.Cothern@dot.state.fl.us>
**Subject:** FPID 414506-1 / State Road 70 from Jefferson Ave to CR 29 / Highlands County LHR Outreach

You don't often get email from joe.lauk@dot.state.fl.us. Learn why this is important

[**CAUTION:** External Message*]

Good afternoon,

The Florida Department of Transportation (FDOT), District One, is conducting a Project Development and Environment (PD&E) Study to evaluate the proposed widening of approximately 7.0 miles of State Road 70 from west of Jefferson Avenue/Placid Lakes Boulevard to east of County Road 29 in Highlands County, Florida. Additional information can be found on the project website - https://www.swflroads.com/project/414506-1.
The purpose of this email is to coordinate with the local floodplain management agencies to initiate coordination to ensure that the floodplain impacts are adequately addressed and consistent with the floodplain management programs.
The FDOT PD&E Manual requires documentation that the project was coordinated with Federal Emergency Management Agency (FEMA) and local agencies to determine whether the project will have any impacts to regulatory floodways and that the project requirements are consistent with the regulatory floodway. No regulatory floodways were found to be within the project limits based on the FEMA Flood Insurance Rate Maps (FIRMs) – Community-Panel Numbers: 12055C0510C, 12055C0528C, 12055C0529C, and 12055C0533C effective November 18, 2015.
The project is anticipated to have impacts to the base floodplain which will be mitigated by providing volumetric floodplain compensation sites, acquiring flood rights, and/or dynamic hydrologic and hydraulic modeling. Since the base floodplain elevations have not been determined in the FIRMs, the Southwest Florida Water Management District's (SWFWMD) Lake Placid Watershed Study or developed hydrologic and hydraulic modeling will be used as the best available information.
**We would like to get concurrence that that the Department's approach is consistent with the local floodplain management programs; and the County does not have other newer information beyond the FEMA FIRMs and the SWFWMD Lake Placid Watershed Study.**

Thanks!

**Joseph M. Lauk, PE**

**Patel, Greene and Associates, LLC (PGA)**
***GEC Consultant Support for FDOT District One***
801 N. Broadway Ave. Bartow Fl. 33830
Office: 863.519.2525 | Cell: 863.604.0316
Email: Joe.Lauk@dot.state.fl.us



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## Sammy Huey

**From:** Della Sera, Karina <Karina.DellaSera@dot.state.fl.us>
**Sent:** Thursday, July 9, 2026 10:51 AM
**To:** Hong Chiu
**Cc:** Setchell, Brent; Molloy, Ryan; Lauk, Joe; Matthew Dockins; Sammy Huey
**Subject:** RE: 414506-3 - SR 70 Segment 12 - LHR & Legacy Drainage Issue

External Email: Use caution when clicking on links, replying, or opening attachments.

Good morning!!

Per our research there is not issues in this area ( intersection of US27 /west side), you can disregard that comment.

Thanks.

Karina

---

**From:** Della Sera, Karina
**Sent:** Wednesday, July 8, 2026 3:59 PM
**To:** Hong Chiu <htchiu@HNTB.com>
**Cc:** Setchell, Brent <Brent.Setchell@dot.state.fl.us>; Molloy, Ryan <Ryan.Molloy@dot.state.fl.us>; Lauk, Joe <Joe.Lauk@dot.state.fl.us>; Matthew Dockins <mdockins@hntb.com>; Sammy Huey <shuey@HNTB.com>
**Subject:** RE: 414506-3 - SR 70 Segment 12 - LHR & Legacy Drainage Issue

Sam,

Let me go over this issue and I will get back with you. 😊

---

**From:** Hong Chiu <htchiu@HNTB.com>
**Sent:** Wednesday, July 8, 2026 3:31 PM
**To:** Della Sera, Karina <Karina.DellaSera@dot.state.fl.us>
**Cc:** Setchell, Brent <Brent.Setchell@dot.state.fl.us>; Molloy, Ryan <Ryan.Molloy@dot.state.fl.us>; Lauk, Joe <Joe.Lauk@dot.state.fl.us>; Matthew Dockins <mdockins@hntb.com>; Sammy Huey <shuey@HNTB.com>
**Subject:** 414506-3 - SR 70 Segment 12 - LHR & Legacy Drainage Issue

**EXTERNAL SENDER:** Use caution with links and attachments.

Good afternoon Karina,

We received an ERC comment from Manny on our Draft LHR. He indicated that there are legacy drainage problem and past litigation at a site located west of SR 70 and US 27 intersection.



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I recalled Brent mentioning the previous complaints at the Sunshine RV site east of US 27 during the kickoff meeting; but I don't recall any known issues on the west side.

Can you share more information with us?

Thanks!

| Created By | Created On | Version |
|---|---|---|
| MANNY MONREAL | 5/28/2026 | 1 |

Please note that there is a legacy drainage problem and past litigation at a site located west of the US 27 Inters
Staff (Karina Della Sera) and determine whether the proposed action will exasperate or conflict with previous ju
commitments in the PD&E study are necessary. Additionally, there have also been previous complaints from th
70 just east of US 27.

-Sam


**Hong Ting (Sam) Chiu, P.E.**
Drainage Department Manager
**Tel** (813) 402-4150 [Ext. 85180] **Direct** (813) 498-5180 **Cell** (813) 407-7719 **Email** htchiu@hntb.com

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# APPENDIX H

# REFERENCES

# ERP Permit No.

# 25519.001

PERMITTED DRAWINGS SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD)
For construction permits, the Permittee shall notify the District in writing when construction begins.

1 MITERED END SECTION
FL E. 136.97 (18")

2 MITERED END SECTION
FL E. 134.48 (18")

3 MITERED END SECTION
FL W. 133.79 (18")

4 MITERED END SECTION
FL W. 132.35 (18")

5 CATCH BASIN
TOP EL. 134.44
FL N. 129.95 (18")

6 STRAIGHT ENDWALL
FL S. 129.92 (18")

7 MITERED END SECTION
FL E. 130.71 (18")

8 MITERED END SECTION
FL W. 131.03 (18")

9 CATCH BASIN
TOP EL. 133.97
FL N. 132.35 (18")
FL S. 132.25 (18")

10 MITERED END SECTION
FL N. 131.31 (24")

11 MITERED END SECTION
FL S. 131.52 (24")

12 STRAIGHT ENDWALL
FL W. 129.12 (18")

13 CATCH BASIN
TOP EL. 131.90
FL E. 129.32 (18")

14 STRAIGHT ENDWALL
FL W. 131.20 (18")

15 CATCH BASIN
TOP EL. 133.56
FL E. 131.20 (18")

16 CATCH BASIN
TOP EL. 128.15
FL S. 123.78 (18")

17 STRAIGHT ENDWALL
FL N. 123.72 (18")

18 MITERED END SECTION
FL E. 123.43 (18")

19 MITERED END SECTION
FL W. 122.75 (18")

20 STRAIGHT ENDWALL
FL S. 119.67 (24")

21 STRAIGHT ENDWALL
FL N. 119.52 (24")

22 MITERED END SECTION
FL E. 120.11 (18")

23 MITERED END SECTION
FL W. 119.83 (18")

24 MITERED END SECTION
FL E. 121.20 (18")

25 MITERED END SECTION
FL W. 120.84 (18")

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. This sheet is in the plans for documentation and to assist construction personnel with drainage concerns.

BEGIN CONSTRUCTION
STA. 213+90.00
℄ CONST. SR 70
℄ SURVEY SR 70

BEGIN PROJECT
STA. 1940+00.00
℄ CONST. SR 25 (US 27)
STA. 1940+00.04
℄ SURVEY SR 25 (US 27)

END PROJECT
STA. 1956+00.00
℄ CONST. SR 25 (US 27)
℄ SURVEY SR 25 (US 27)

END CONSTRUCTION
STA. 114+80.00
℄ CONST. SR 70
℄ SURVEY SR 70

℄ SURVEY SR 70 STA. 100+33.00 =
℄ CONST. US 27 (SR 25) STA. 1948+36.27

S 32 - T 37 S - R 30 E
S 5 - T 38 S - R 30 E
S 33 - T 37 S - R 30 E
S 4 - T 38 S - R 30 E

S 89° 36' 12" E

SR 70

GLADES ELECTRIC CO-OP

SHUMARD DRIVE

RAGAN AVENUE

MYERS ROAD

CIRCLE K

CHEVRON

ANDERSONS PLANT NUTRIENT

SUN RAY GROVES

NORTH STREET
GARY AVENUE
BRYAN STREET
CLAY STREET
CULVER STREET
CENTER STREET
PALM STREET
N EDGE
EKHOFF LANE
N LAKE SIDE
PINE RIDGE TERRACE
ANDRE STREET
BEN STREET
CARL STREET
DAN STREET
ELY STREET
FRED STREET
GAGE STREET
HOMER STREET
PRYOR LANE
MARILLA LANE
CENTER ISLE
E ISLE
VICTORIA LANE
S LAKESIDE DRIVE
SNOWBALL DRIVE
LILY DRIVE
PLACID PINE DRIVE
FRITZ STREET
PINE RIDGE CIRCLE
ANITA DRIVE
BETTY DRIVE
CONNIE DRIVE
GLADES ELECTRIC CO-OP

R/W LINE
NATURAL DEPRESSION EL. 128
NATURAL DEPRESSION EL. 130
NATURAL DEPRESSION EL. 132
NATURAL DEPRESSION EL. 124
POP-OFF EL. 133
POP-OFF EL. 132
POP-OFF EL. 128
POP-OFF EL. 130
POP-OFF EL. 120
℄ CONST. US 27 (SR 25)
℄ SURVEY SR 25
℄ CONST. SR 70
℄ SURVEY SR 70

9.5 ac
32.1 ac
0.7 ac
32.0 ac
7.3 ac
13.9 ac
18.0 ac
5.6 ac
13.3 ac
15.7 ac
26.6 ac
32.1 ac

CS-1
CS-2
CS-3
S-100
S-209
S-210

1965
1960
1955
1950
1945
1940
1935
1930

205 210 215 220 225 105 110 115 120 125 130

0 100 400
Feet

LEGEND
POP-OFF ELEVATION
OVERLAND FLOW
DITCH FLOW
DRAINAGE DIVIDES

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| REVISIONS | | | |
|---|---|---|---|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

RICARDO A. CINTRON, P.E.
P.E. LICENSE NUMBER 76423
DEWBERRY ENGINEERS INC.
800 NORTH MAGNOLIA AVENUE SUITE 1000
ORLANDO, FL 32803
CERTIFICATE OF AUTHORIZATION 8794

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

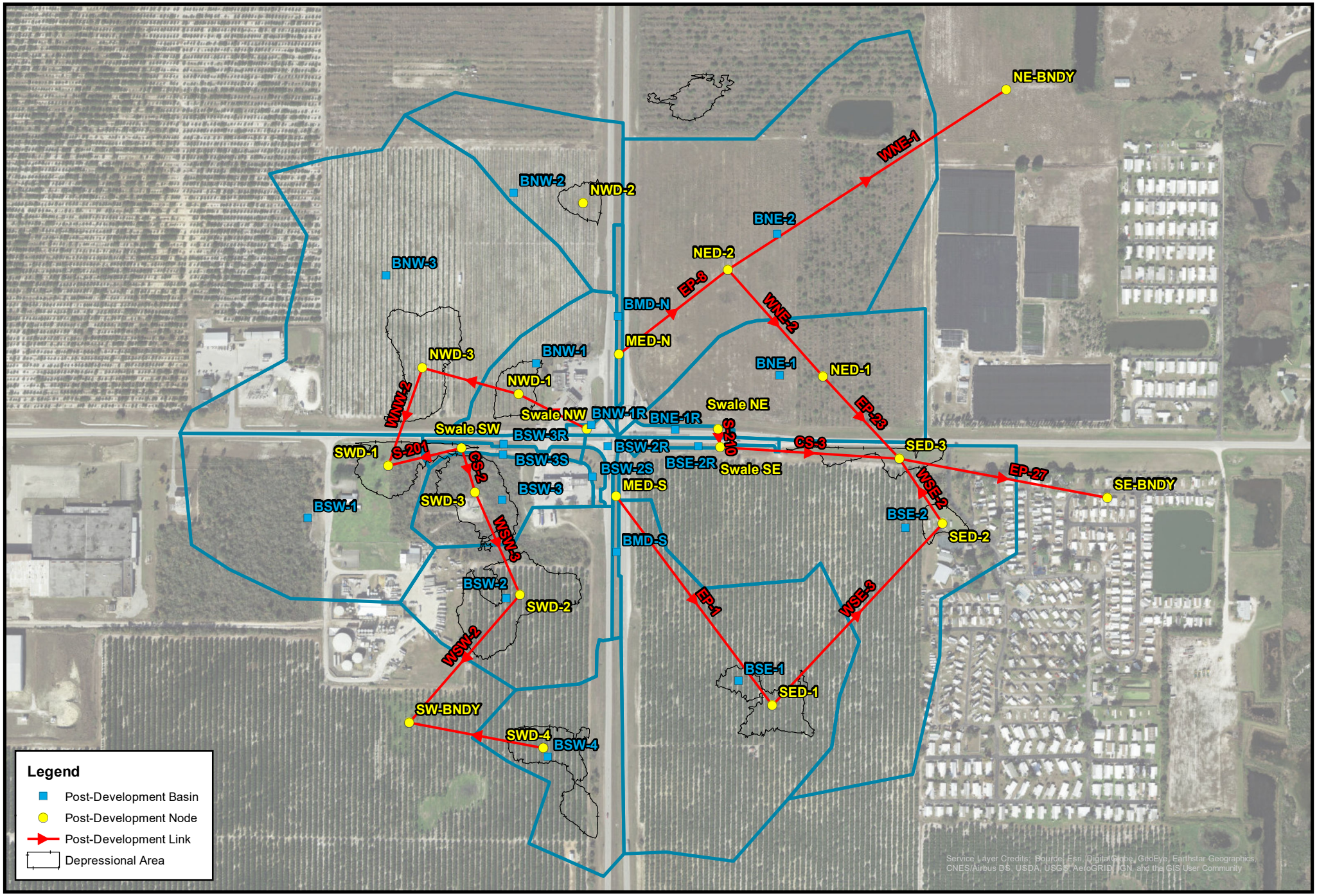
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| SR 25 | HIGHLANDS | 439827-1-52-01 |

# DRAINAGE MAP

SHEET NO. 5



jbenavides 4/2/2020 4:22:08 PM Q:\50098539_SR25_Intersection\CAD\43982715201\drainage\DRMPRD01.DGN




# SR 25 (US 27) at SR 70 Intersection Improvements

Highlands County, Florida

Post-Development Nodal Network

N

0 275 550 Feet

Data Source: Dewberry
Image Source: ESRI

Document Path: Q:\50098539_SR25_Intersection\GIS\SR25_PostDevelopment_NodalNetwork.mxd

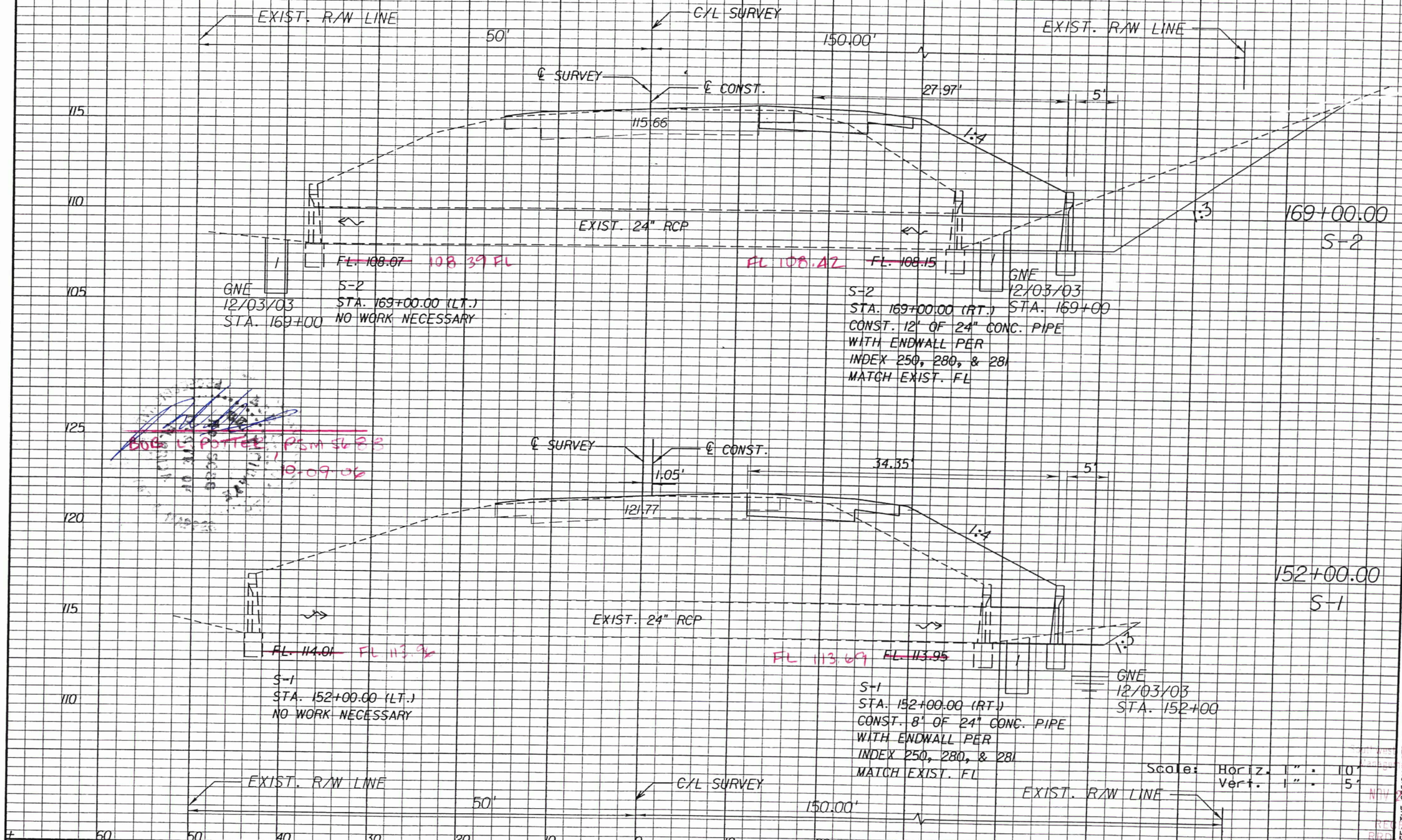
| Link Name | Sim Name | Max Flow [cfs] | Min Flow [cfs] | Min/Max Delta Flow [cfs] | Max Us Velocity [fps] | Max Ds Velocity [fps] | Max Avg Velocity [fps] |
|---|---|---|---|---|---|---|---|
| PSE-1 | 100yr24FDOT | 9.46 | 0.00 | 0.98 | 0.00 | 0.00 | 0.00 |
| PSE-2 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PSE-3 | 100yr24FDOT | 0.12 | -0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| PSW-1 | 100yr24FDOT | 5.88 | 0.00 | -0.07 | 0.00 | 0.00 | 0.00 |
| PSW-2 | 100yr24FDOT | 5.88 | 0.00 | -0.43 | 0.00 | 0.00 | 0.00 |
| PSW-3 | 100yr24FDOT | 2.10 | 0.00 | -0.01 | 0.00 | 0.00 | 0.00 |
| PSW-4 | 100yr24FDOT | 1.90 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 |
| S-201 | 100yr24FDOT | 1.03 | -2.15 | 0.37 | 1.94 | 3.59 | 2.77 |
| S-210 | 100yr24FDOT | 0.57 | -0.01 | -0.22 | 1.65 | 1.76 | 1.63 |
| SwaleNE-PERC | 100yr24FDOT | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleNW-PERC | 100yr24FDOT | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleSE-PERC | 100yr24FDOT | 0.21 | -0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleSW-PERC | 100yr24FDOT | 1.70 | 0.00 | -0.05 | 0.00 | 0.00 | 0.00 |
| WNE-1 | 100yr24FDOT | 8.96 | 0.00 | 0.11 | 0.77 | 0.77 | 0.77 |
| WNE-2 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WNW-1 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WNW-2 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSE-2 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSE-3 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-2 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-3 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-4 | 100yr24FDOT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS-1 - Pipe | 100yr24hr | 1.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS-1 - Weir: 1 | 100yr24hr | 1.45 | 0.00 | 0.00 | 1.01 | 1.01 | 1.01 |
| CS-2 | 100yr24hr | 4.65 | 0.00 | 0.01 | 1.37 | 1.37 | 1.37 |
| CS-3 - Pipe | 100yr24hr | 4.16 | -2.97 | -0.06 | 0.00 | 0.00 | 0.00 |
| CS-3 - Weir: 1 | 100yr24hr | 4.16 | -2.97 | -0.06 | 1.44 | 1.44 | 1.44 |
| EP-1 | 100yr24hr | 3.11 | 0.00 | 0.00 | 2.31 | 4.06 | 3.19 |
| EP-23 | 100yr24hr | 5.94 | -3.02 | -0.16 | 1.89 | 1.89 | 1.89 |
| EP-27 | 100yr24hr | 18.21 | 0.00 | -3.38 | 10.30 | 10.59 | 10.45 |
| EP-8 | 100yr24hr | 3.27 | 0.00 | 0.00 | 2.65 | 3.32 | 2.99 |
| PNE-2 | 100yr24hr | 2.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW-1 | 100yr24hr | 5.54 | 0.00 | -0.21 | 0.00 | 0.00 | 0.00 |
| PNW-2 | 100yr24hr | 2.90 | 0.00 | 0.06 | 0.00 | 0.00 | 0.00 |
| PNW-3 | 100yr24hr | 15.33 | 0.00 | -1.30 | 0.00 | 0.00 | 0.00 |
| PSE-1 | 100yr24hr | 21.05 | 0.00 | 0.93 | 0.00 | 0.00 | 0.00 |
| PSE-2 | 100yr24hr | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PSE-3 | 100yr24hr | 0.35 | -0.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| PSW-1 | 100yr24hr | 8.37 | 0.00 | -0.17 | 0.00 | 0.00 | 0.00 |
| PSW-2 | 100yr24hr | 12.67 | 0.00 | -0.54 | 0.00 | 0.00 | 0.00 |
| PSW-3 | 100yr24hr | 3.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Link Name | Sim Name | Max Flow [cfs] | Min Flow [cfs] | Min/Max Delta Flow [cfs] | Max Us Velocity [fps] | Max Ds Velocity [fps] | Max Avg Velocity [fps] |
|---|---|---|---|---|---|---|---|
| PSW-4 | 100yr24hr | 7.47 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 |
| S-201 | 100yr24hr | 4.97 | -2.49 | 3.60 | 3.18 | 5.48 | 4.29 |
| S-210 | 100yr24hr | 3.28 | -0.01 | 0.02 | 2.71 | 3.32 | 3.02 |
| SwaleNE-PERC | 100yr24hr | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleNW-PERC | 100yr24hr | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleSE-PERC | 100yr24hr | 0.46 | -0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleSW-PERC | 100yr24hr | 1.83 | 0.00 | -0.07 | 0.00 | 0.00 | 0.00 |
| WNE-1 | 100yr24hr | 16.52 | 0.00 | 0.12 | 0.94 | 0.94 | 0.94 |
| WNE-2 | 100yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WNW-1 | 100yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WNW-2 | 100yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSE-2 | 100yr24hr | 0.00 | -2.18 | -0.03 | 0.00 | 0.00 | 0.00 |
| WSE-3 | 100yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-2 | 100yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-3 | 100yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-4 | 100yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS-1 - Pipe | 10yr24hr | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS-1 - Weir: 1 | 10yr24hr | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS-2 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS-3 - Pipe | 10yr24hr | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CS-3 - Weir: 1 | 10yr24hr | 0.26 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| EP-1 | 10yr24hr | 0.36 | 0.00 | 0.00 | 0.86 | 2.21 | 1.54 |
| EP-23 | 10yr24hr | 3.02 | 0.00 | 0.40 | 0.96 | 0.96 | 0.96 |
| EP-27 | 10yr24hr | 8.78 | 0.00 | -3.38 | 4.97 | 5.26 | 5.11 |
| EP-8 | 10yr24hr | 0.38 | 0.00 | 0.00 | 1.47 | 1.87 | 1.67 |
| PNE-2 | 10yr24hr | 0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW-1 | 10yr24hr | 1.95 | 0.00 | -0.26 | 0.00 | 0.00 | 0.00 |
| PNW-2 | 10yr24hr | 1.02 | 0.00 | -0.03 | 0.00 | 0.00 | 0.00 |
| PNW-3 | 10yr24hr | 2.01 | 0.00 | -0.07 | 0.00 | 0.00 | 0.00 |
| PSE-1 | 10yr24hr | 5.17 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 |
| PSE-2 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PSE-3 | 10yr24hr | 0.05 | -0.11 | 0.00 | 0.00 | 0.00 | 0.00 |
| PSW-1 | 10yr24hr | 3.44 | 0.00 | 0.12 | 0.00 | 0.00 | 0.00 |
| PSW-2 | 10yr24hr | 3.81 | 0.00 | 0.43 | 0.00 | 0.00 | 0.00 |
| PSW-3 | 10yr24hr | 1.93 | 0.00 | -0.01 | 0.00 | 0.00 | 0.00 |
| PSW-4 | 10yr24hr | 1.94 | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 |
| S-201 | 10yr24hr | 0.54 | -0.41 | 0.27 | 1.64 | 2.97 | 2.30 |
| S-210 | 10yr24hr | 0.39 | -0.01 | 0.11 | 1.49 | 1.74 | 1.61 |
| SwaleNE-PERC | 10yr24hr | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleNW-PE | 10yr24hr | 0.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Link Name | Sim Name | Max Flow [cfs] | Min Flow [cfs] | Min/Max Delta Flow [cfs] | Max Us Velocity [fps] | Max Ds Velocity [fps] | Max Avg Velocity [fps] |
|---|---|---|---|---|---|---|---|
| RC | | | | | | | |
| SwaleSE-PERC | 10yr24hr | 0.15 | -0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| SwaleSW-PERC | 10yr24hr | 1.08 | 0.00 | -0.09 | 0.00 | 0.00 | 0.00 |
| WNE-1 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WNE-2 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WNW-1 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WNW-2 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSE-2 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSE-3 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-2 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-3 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WSW-4 | 10yr24hr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

# ERP Permit No.

# 27810.000




Scale: Horiz. 1" = 10'
Vert. 1" = 5'

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | |

ENGINEER OF RECORD
EDUARDO A. PONCE, PE
801 N. BROADWAY AVENUE
BARTOW, FL 33830-3809
PE NO. 56818

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

| ROAD NO. | COUNTY | FINANCIAL PROJECT ID |
|---|---|---|
| SR 70 | HIGHLANDS | 194437-3-52-01 |

**DRAINAGE STRUCTURES**

SHEET NO. 21

1/14/2005 12:15:36 PM C:\e\projects\194437-3\roadway\drstr01.stg

Southwest Florida Water Management District
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