

# 100% Remedial Design Basis of Design Report

## Appendix L

### No-Rise Evaluation

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### ATTACHMENTS

Attachment L.1	FEMA Flood Insurance Rate Maps
Attachment L.2	Complete Water Surface Elevation Results
Attachment L.3	HEC-RAS Model Outputs

## ABBREVIATIONS

BODR	<i>Basis of Design Report</i>
cfs	cubic feet per second
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FIS	flood insurance study
ENR	enhanced natural recovery
LDW	Lower Duwamish Waterway
Manning's n	Manning's roughness coefficient
MHHW	mean higher high water
NAVD88	North American Vertical Datum of 1988
NHC	Northwest Hydraulic Consultants
NOAA	National Oceanic and Atmospheric Administration
RAA	remedial action area
RD	remedial design
RM	river mile
RMC	residuals management cover
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey

# 1 Introduction

## 1.1 Background

This “no-rise” evaluation evaluates the potential hydraulic effects for the post-construction conditions of the Final (100%) Remedial Design (RD) for the upper reach of the Lower Duwamish Waterway (LDW) Superfund Site in King County, Washington on the 10- and 100-year flood water surface elevation in the LDW. The upper reach of the Superfund Site spans river miles (RMs) 3 to 5. The sediment cleanup remedy will include dredging, backfill, capping, and thin-cover material placement, which will result in changes to the riverbed elevation in the waterway.

### 1.1.1 Summary of Upper Reach Remedy

Over the length of the upper reach area, the total quantity of material dredged will be greater than the total fill quantity placed for backfill, capping, enhanced natural recovery (ENR), residuals management cover (RMC), and amended cover. At Final (100%) RD, the estimated total dredging volume (including assumed contingency redredging volume) is 132,300 cubic yards; the estimated total placement volume for backfill, capping, ENR, RMC, and amended cover is 95,200 cubic yards. Apart from placement of thin layers of material for ENR, RMC for dredge residuals, and amended cover at limited locations, the Final (100%) RD does not incorporate placement of fill to elevations greater than the existing mudline. ENR entails placing a thin layer of clean, sandy material that is intended to enhance the natural sedimentation that will otherwise occur over time in the same area.

Amended cover will be placed in a few small areas where the remedial technology is dredging, but dredging right up against an existing structure is not practical. Amended cover is placement of a thin layer of clean, gravelly sand material amended with activated carbon over the small offset distance (3 to 5 feet in width) that cannot be dredged.

RMC placement entails using a layer of clean, sandy material to manage dredging-generated residuals, which are a thin layer of disturbed contaminated sediment that remains on the post-dredge surface due to material loss during dredging or the inability of the dredge to fully remove the material disturbed during the excavation process. The purpose of RMC is to provide a clean post-remedial surface condition. RMC placement is not a permanent change to elevations because the material may mix or move under natural processes. Initial RMC placement thickness is anticipated to be a targeted thickness of 9 inches in all dredge areas that are not backfilled and a targeted thickness of 24 inches on dredge side slopes. Outside of the dredge footprint, RMC only affects localized areas (i.e., inner and outer perimeters; Final [100%] RD *Basis of Design Report* [BODR], Section 10.2.9). Within the dredging footprint, the bed elevation post-dredging will be the same (in backfilled areas) or deeper than pre-dredge elevations, even after RMC placement.



ENR, amended cover, and RMC placement are not predicted to have any effect on 10- or 100-year water surface elevations for the post-construction conditions.

## 1.2 No-Rise Criteria

Per the Federal Emergency Management Agency (FEMA) Region 10 guidance document, *Procedures for "No-Rise" Certification for Proposed Developments in the Regulatory Floodway* (FEMA 2013), the equivalent to a "no-rise" certification may need to be demonstrated for the upper reach remedial action based on hydraulic analyses to demonstrate substantive compliance with Section 60.3(d)(3) of the National Flood Insurance Program and implementing regulation King County Code Section 21A.24.240 (zero-rise flood fringe). These codes stipulate that any development or alterations to the floodplain shall not increase the base flood elevation during the occurrence of the 10- or 100-year flood discharge. A no-rise evaluation has been performed to support the assessment of substantive compliance of Applicable or Relevant and Appropriate Requirements.

## 1.3 Project Setting

The LDW upper reach is located between RMs 3 and 5 upstream of Elliot Bay in Seattle, which corresponds to the U.S. Army Corps of Engineers (USACE) river stations 186+00 and 292+50. Note that the Final (100%) Drawings (Volume III of the BODR) use alternative stationing to the USACE stations upstream of the turning basin beginning at USACE station 273+00.

The upper reach consists of stable and net depositional estuarine river channel. The side banks consist of armored slopes (primarily rock riprap), unarmored slopes, and vertical bulkhead walls. The northeast (river-right) floodplain consists primarily of industrial land use, including large structures and buildings, and a significant portion of the floodplain is composed of paved surfaces. The southwest (river-left) floodplain is a mixture of industrial and residential land uses and some open space. The FEMA flood insurance rate maps (FIRMs) showing the effective mapped floodplains are shown in Attachment L.1. The upper reach of the LDW corresponds to the downstream-most section of the lower reach of the Green River as the lower reach of the Green River is defined in the effective HEC-RAS model.

## 1.4 Objectives of Evaluation

The objective of this no-rise evaluation is to evaluate a hydraulic model of the existing (pre-construction) and post-construction conditions for the 10- and 100-year flood event to determine if the remedial action described in the Final (100%) RD results in increases to the base flood elevations.

## 2 Hydraulic Model Development

### 2.1 Model Background

The USACE HEC-RAS model is a 1D model that can compute water surface elevations and velocities for steady and unsteady state boundary conditions and subcritical, supercritical, and mixed flow regimes. The USACE HEC-RAS model framework is the standard and FEMA-accepted modeling tool for determining the base flood elevations reported in FEMA flood insurance studies (FISs). The no-rise evaluation was conducted to evaluate the potential effects of the Final (100%) RD on the flood stage in the Lower Green River/Upper LDW during the 10- and 100-year return interval. The 10- and 100-year flood flows rates were combined with the downstream mean higher high water (MHHW) tidal conditions to simulate the 10- and 100-year flood conditions.

The HEC-RAS model used in this study was developed from a combination of data sources, including the FEMA 2020 King County FIS (FEMA 2020), the 2010 *Floodplain Mapping Study for Lower Green River* model (the “effective” model) (NHC 2010), the South Park Bridge no-rise study model (model domain between station 188+75 to 217+75; Herrera 2007), *Green River HEC-RAS 1D Unsteady Model Development* (King County 2019), and the existing bathymetry and floodplain elevation data and upper reach pre-design investigation topography and bathymetry data. The pre-construction (existing) conditions include the South Park Bridge, which was not included in the 2020 FEMA FIS. The available hydraulic models for the Lower Green River overlap with the most of the LDW upper reach but do not encompass the entire extent. To model the Final (100%) RD remedial action impacts on the 10- and 100-year flood levels, the model used in this study was extended downstream to capture the downstream extents of upper reach Final (100%) RD. All HEC-RAS model domain stationing corresponds to the USACE stationing for the LDW and Green River.

#### 2.1.1 Effective Model

The effective model is the hydraulic model used in development of the published FEMA FIS and FIRMs. Anchor QEA, LLC, reviewed the FIS published by FEMA for King County (FEMA 2020). The FIS summarizes results of the effective hydrologic and hydraulic evaluations performed to establish return interval flow rates, flood level water surface elevations, and flood hazard boundaries throughout the county. Section 1.3.8 of the 2020 FIS describes that the effective model study used to develop the 2020 FIS and corresponding FIRMs was the 2010 *Floodplain Mapping Study for Lower Green River* (NHC 2010). The Northwest Hydraulic Consultants (NHC) 2010 Effective Model domain was between stations 202+07 and 2341+05 at the Flaming Geyser State Park and includes the 1D steady-state flows and boundary conditions used in this no-rise evaluation.

## 2.1.2 Effective Model Revisions

Anchor QEA obtained HEC-RAS model files from the *Green River HEC-RAS 1D Unsteady Model Development* (King County 2019). This model combined the 2010 NHC effective Green River model with a model developed by USACE in 2012 to examine the Green River hydrographs and associated confidence limits at the U.S. Geological Survey (USGS) Green River near Auburn, Washington, gage (USGS Gage 12113000). The 2012 USACE model domain was from station 202+07 to station 3394+78, just downstream of Howard Hanson Dam.

The 2019 King County model updates included combining the NHC 2010 and USACE 2012 models, removing interpolated cross sections, addressing schematic errors, updating the bridge modeling approach to "Pressure and/or Weir" as needed, resolving instabilities in the unsteady model scenarios, addressing inflow hydrograph errors, adjusting channel and overbank Manning's roughness coefficient (Manning's n), adding ineffective areas, and incorporating recent projects (King County 2019). Projects incorporated include the Reddington Levee Setback and Extension project and the 277th Street Revetment project.

The 2019 King County revised model was used as the basis for the pre-construction conditions model in this no-rise study because it is considered the best available model.

## 2.2 Methods

The HEC-RAS models evaluated for this study were subcritical, steady-state models that employ constant flow rate at the upstream boundary, with constant but spatially variable flow rates at intermediate reach locations (flow change locations) and a constant water level at the downstream boundary condition.

The downstream boundary condition of the models for the 10- and 100-year event is the MHHW level in the tidal waters of the Lower Green River/Upper LDW, selected from the 2020 FIS (FEMA 2020), which was determined from the Seattle tidal gage located in Elliott Bay (National Oceanic and Atmospheric Administration [NOAA] gage No. 9447130). The MHHW downstream water surface elevation boundary was set to 9.02 feet North American Vertical Datum of 1988 (NAVD88).

It should be noted that the regulatory base flood elevations shown in the 2020 FEMA FIS are based on the 100-year tidal elevation at the Seattle tide gage (NOAA gage No. 9447130) as computed by the USACE Seattle District. Under these flood conditions, the hydraulic conditions for the LDW upper reach are tidally dominated, and the river backwaters at the 100-year tidal elevation of 12.39 feet NAVD88 upstream to station 331+80 (FEMA 2020). Combining the 100-year flow with the 100-year tidal elevation is likely an extreme event with greater than a 100-year recurrence interval, and the backwater tidal effects may mask any changes to the river hydraulics caused by the remedial actions described in the Final (100%) RD. The extreme tidal scenario with the 100-year tide elevation

downstream boundary condition was a supplemental evaluation the no-rise study. The 10- and 100-year events represented by the MHHW downstream boundary condition were the scenarios considered for meeting the no-rise criteria.

### *2.2.1 Effective Model*

The effective model is the hydraulic model used to determine the current published FEMA FIS and FIRMs. The effective model developed in 2010 by NHC was not modified, and results were reused from model files without re-evaluating the model. The upstream flow boundary condition for the 100-year event was a constant flow (steady state) of 12,070 cubic feet per second (cfs) at station 2335+55. The downstream boundary condition was set to the MHHW elevation of 9.02 feet at station 202+07.

### *2.2.2 Duplicate Effective Model*

The duplicate effective model is a copy of the effective model files that is created to evaluate changes to the effective model results caused by updates to HEC-RAS modeling software. The duplicate model was run using USACE HEC-RAS version 6.2. The results of the duplicate effective model for the 100-year steady flow scenario water surface elevations are compared to the effective model in Attachment L.1. The difference in water surface elevations between the effective model results and the duplicate effective model are most likely due to updates to the HEC-RAS model software between version 6.2 used for this evaluation and the HEC-RAS version used in the 2010 study. The maximum difference between the effective model results and the duplicate model results is 0.18 foot.

### *2.2.3 Pre-Construction Conditions Model*

The pre-construction (existing) conditions model represents the best available knowledge of current conditions of the upper reach. The pre-construction conditions model was developed starting with the 2019 King County revised model, which combined the NHC 2010 effective model and USACE 2012 model. The following modifications and parameters were used to develop the pre-construction conditions model.

#### **2.2.3.1 Geometry**

The model was extended approximately 1,540 feet downstream from station 202+70 to station 186+70 to include the portion of the LDW upper reach downstream of the effective and revised effective models where modifications to the channel occur in the Final (100%) RD. Station 3394+78 was the upstream extent of the pre-construction conditions model domain. Fifty-one additional cross sections were added to the model to capture all changes due to the Final (100%) RD. Additionally, the South Park Bridge was added to the model at station 204+28 based on the South Park Bridge no-rise model study (Herrera 2007). The bridge modeling approach for the South Park Bridge was updated

from “Energy Only” to “Pressure and/or Weir” to conform with updates made to bridge modeling approaches for all other bridges within the model domain in the 2019 King County updates. Reach lengths for the duplicate and new cross sections were updated.

The cross-section profiles were updated using a combination of bathymetry and topography data sources including the 2019 Northwest Hydro Bathymetry survey, 2021 True North bank topography survey, and 2021 Light Detection and Ranging from USGS (2021; acquired from the Washington Geological Survey).

### **2.2.3.2 Manning’s Roughness Coefficient**

Bank Manning’s n values were updated for the duplicate and new cross sections based on applying updated shoreline classifications for armored shoreline areas in the upper reach, as observed during upper reach pre-design investigation. Armored shorelines were assigned an updated Manning’s n value of 0.09. For unarmored and bulkhead shoreline classifications, the floodplain Manning’s n value of 0.05 was unchanged from 0.05. All channel Manning’s n values were unchanged from 0.03.

### **2.2.3.3 Bridge Modeling Approach**

The assumptions and parameters used to model the existing bridges included in both the pre-construction and post-construction models were not changed from those used in the 2019 King County model. Further updates to bridges in the effective model are outside of the scope of the requirements of the no-rise analysis and do not impact the results of comparing the pre-construction and post-construction conditions models.

### **2.2.3.4 Boundary Conditions**

The upstream flow boundary condition for the 100-year and extreme tidal events was a constant flow (steady state) of 12,070 cfs at station 3394+78. The upstream flow boundary condition for the 10-year event was a constant flow of 11,060 cfs at station 3394+78. The downstream boundary condition for the 10- and 100-year events were set to the MHHW elevation of 9.02 feet at station 186+70. The downstream boundary condition for the extreme tidal event was set to the 100-year tidal elevation of 12.39 feet at station 186+70.

## **2.2.4 Post-Construction Conditions Model**

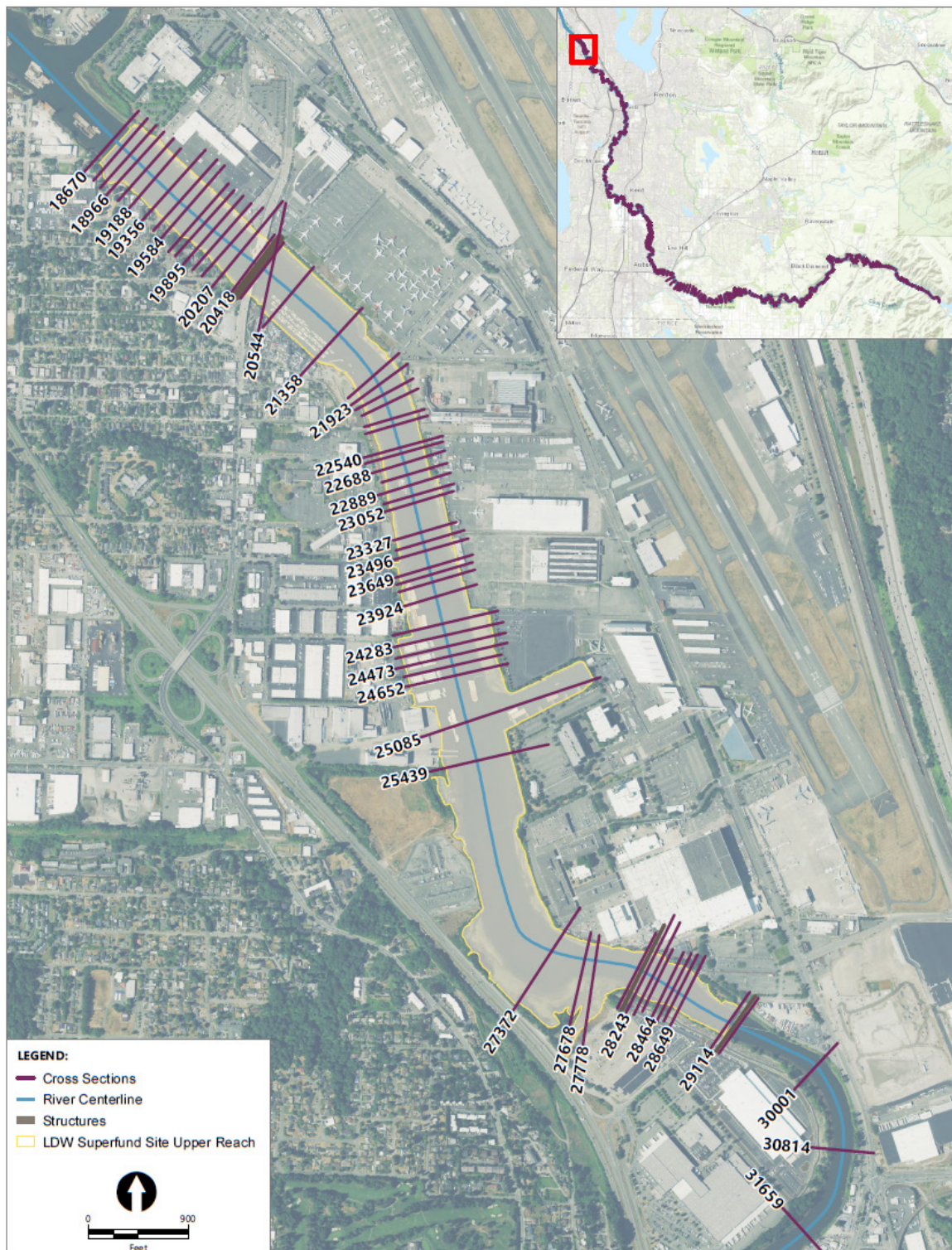
The post-construction (proposed) conditions model represents the conditions that will exist following completion of the Final (100%) RD remedial action, based on the design. The post-construction conditions model was developed by updating the geometry of the pre-construction conditions model using the final dredge, capping, and backfill grade from the Final (100%) RD. ENR and RMC placement targeted thicknesses were added to the Final (100%) RD design

grade to conservatively evaluate the effect of the post-construction conditions on water surface elevations. The extent of ENR and RMC placement areas used were obtained from the Final (100%) RD Drawings.

Boundary conditions, bridge geometry, modeling approaches, and cross-section locations were not modified. Manning's n values were updated as needed if the shoreline classification was changed in the Final (100%) RD. Post-construction conditions model results were compared to the pre-construction conditions model results for the 10-, 100-year, and extreme tidal events to evaluate potential effects of the RD on water surface elevations. Figure L2-1 shows the pre- and post-construction conditions model domain.



**Figure L2-1**  
**Pre- and Post-Construction Model Domain**



### 3 Results

The effect of the LDW upper reach remedial actions on the 10- and 100-year water surface elevations modeled with a downstream boundary condition of the MHHW level was determined by subtracting the pre-construction condition water surface elevation results from the post-construction conditions water surface elevation results. The 10- and 100-year return period water surface elevation results for station 186+70 to station 291+14 (the model domain), and the difference between the post- and pre-construction water surface elevations are shown in Table L3-1. The remedial action areas (RAAs) and other applicable locations corresponding to the cross sections are also listed in Table L3-1.

The water surface elevation results shown in Table L3-1 indicate that for the 10- and 100-year return periods, no increases in water surface elevation are expected due to the Final (100%) RD. The FEMA requirements for the “no-rise” certification require the evaluation demonstrates there will not be any increase (nothing greater than 0.00 foot) in the base flood elevation due to the project (FEMA 2021). The results of the evaluation show there are no increases in predicted water level from the remedial actions, and the negative values indicate decreases in the base flood elevation of 0.01 to 0.04 foot at some cross sections (Table L3-1). Additionally, for the extreme tidal event, no increases in water surface elevation are expected due to the remedial actions (Attachment L.2).

The modeling results are consistent with expectations; the Final (100%) RD generally does not increase mudline elevations within the upper reach area except for ENR, some areas of RMC (perimeter RMC), and amended cover placement and lowers mudline elevations in dredging areas that are not backfilled. The net difference between dredging and material placement indicates an overall net increase in flow capacity within the waterway. Therefore, the RD does not have any significant effects on the water surface elevations of the 10- or 100-year flood.

Additional 100-year water surface elevation results for the effective and duplicate effective models and 10-, 100-year, and extreme tidal water surface elevation results for the existing and post-construction conditions models for the entire model domain (RM 3.536 to 64.295) are shown in Attachment L.2. HEC-RAS model cross sections and profiles for the existing and post-construction conditions are presented in Attachment L.3.



**Table L3-1**  
**Water Surface Elevation Results for the 10- and 100-Year Events**

Model Cross Section (USACE Station)	Location Note	Pre-Construction Condition 100-Year Water Surface Elevation (feet NAVD88)	Post-Construction Conditions 100-Year Water Surface Elevation (feet NAVD88)	100-Year Elevation Difference (feet, Post- to Pre-Construction)	Pre-Construction Condition 10-Year Water Surface Elevation (feet NAVD88)	Post-Construction conditions 10-Year Water Surface Elevation (feet NAVD88)	10-Year Elevation Difference (feet, Post- to Pre-Construction)
291+14		9.53	9.50	-0.03	9.46	9.44	-0.02
286+49	RAA 33/34/35	9.48	9.46	-0.02	9.42	9.40	-0.02
285+91	RAA 33/34/35	9.47	9.45	-0.02	9.41	9.39	-0.02
285+28	RAA 33/34/35	9.47	9.45	-0.02	9.41	9.39	-0.02
284+64	RAA 33/34/35	9.47	9.44	-0.03	9.41	9.38	-0.03
283+69	RAA 32	9.45	9.43	-0.02	9.39	9.37	-0.02
283+22	RAA 32	9.45	9.43	-0.02	9.39	9.37	-0.02
282+43		9.44	9.42	-0.02	9.38	9.36	-0.02
281+90	Boeing Access Bridge	0.00	0.00	0.00	0.00	0.00	0.00
281+64		9.41	9.38	-0.03	9.35	9.33	-0.02
277+78	RAA 31	9.42	9.39	-0.03	9.36	9.34	-0.02
276+78	RAA 30	9.37	9.35	-0.02	9.32	9.31	-0.01
273+72	RAA 29, Turning Basin	9.39	9.37	-0.02	9.34	9.32	-0.02
254+39		9.34	9.31	-0.03	9.29	9.27	-0.02
250+85	RAA 28, Slip 6	9.35	9.33	-0.02	9.31	9.29	-0.02
246+52	RAA 27	9.33	9.31	-0.02	9.29	9.27	-0.02
245+63	RAA 27	9.33	9.31	-0.02	9.29	9.27	-0.02
244+73	RAA 27	9.33	9.31	-0.02	9.29	9.27	-0.02
243+83	RAA 27	9.33	9.31	-0.02	9.29	9.27	-0.02
242+83	RAA 27	9.33	9.31	-0.02	9.29	9.27	-0.02
241+72	RAA 27	9.32	9.29	-0.03	9.27	9.25	-0.02
239+24	RAA 24/25/26	9.30	9.28	-0.02	9.26	9.24	-0.02
237+86	RAA 24/25/26	9.29	9.27	-0.02	9.26	9.24	-0.02
237+18	RAA 24/25/26	9.29	9.27	-0.02	9.25	9.23	-0.02
236+49	RAA 24/25/26	9.29	9.26	-0.03	9.25	9.23	-0.02
234+96	RAA 22, RAA 23	9.27	9.25	-0.02	9.24	9.22	-0.02
234+17	RAA 22	9.27	9.25	-0.02	9.23	9.22	-0.01
233+27	RAA 22	9.26	9.24	-0.02	9.23	9.21	-0.02
230+52		9.25	9.23	-0.02	9.22	9.20	-0.02
229+89		9.25	9.22	-0.03	9.21	9.19	-0.02
228+89	RAA 19/20	9.24	9.22	-0.02	9.21	9.19	-0.02
227+94	RAA 19/20	9.23	9.20	-0.03	9.20	9.18	-0.02
226+88		9.22	9.19	-0.03	9.19	9.17	-0.02

Model Cross Section (USACE Station)	Location Note	Pre-Construction Condition 100-Year Water Surface Elevation (feet NAVD88)	Post-Construction Conditions 100-Year Water Surface Elevation (feet NAVD88)	100-Year Elevation Difference (feet, Post- to Pre-Construction)	Pre-Construction Condition 10-Year Water Surface Elevation (feet NAVD88)	Post-Construction conditions 10-Year Water Surface Elevation (feet NAVD88)	10-Year Elevation Difference (feet, Post- to Pre-Construction)
225+98		9.21	9.19	-0.02	9.19	9.17	-0.02
225+40		9.21	9.19	-0.02	9.18	9.16	-0.02
223+34	RAA 17	9.20	9.18	-0.02	9.17	9.15	-0.02
222+71	RAA 17	9.20	9.17	-0.03	9.17	9.15	-0.02
221+28	RAA 14/15/16	9.19	9.17	-0.02	9.17	9.15	-0.02
220+39	RAA 14/15/16	9.19	9.17	-0.02	9.17	9.15	-0.02
219+23	RAA 14/15/16	9.19	9.17	-0.02	9.16	9.15	-0.01
218+43	RAA 14/15/16	9.18	9.16	-0.02	9.16	9.14	-0.02
213+58	RAA 13	9.17	9.15	-0.02	9.15	9.13	-0.02
207+93	RAA 12	9.16	9.14	-0.02	9.14	9.12	-0.02
205+44	RAA 4/5/6	9.15	9.13	-0.02	9.13	9.12	-0.01
204+92	RAA 4/5/6	9.15	9.13	-0.02	9.13	9.11	-0.02
204+28	South Park Bridge	0.00	0.00	0.00	0.00	0.00	0.00
204+18	RAA 4/5/6, RAA 8	9.10	9.08	-0.02	9.09	9.08	-0.01
202+07	RAA 4/5/6	9.09	9.07	-0.02	9.08	9.07	-0.01
200+90	RAA 4/5/6	9.08	9.07	-0.01	9.07	9.06	-0.01
199+90	RAA 4/5/6, RAA 7	9.08	9.06	-0.02	9.07	9.06	-0.01
198+95	RAA 4/5/6	9.07	9.06	-0.01	9.07	9.06	-0.01
197+95	RAA 4/5/6	9.07	9.06	-0.01	9.06	9.06	0.00
197+21	RAA 4/5/6	9.07	9.06	-0.01	9.06	9.06	0.00
195+84	RAA 4/5/6	9.07	9.06	-0.01	9.06	9.05	-0.01
194+88	RAA 4/5/6	9.06	9.06	0.00	9.05	9.05	0.00
193+56	RAA 4/5/6	9.05	9.05	0.00	9.05	9.05	0.00
191+88	RAA 1/2/3	9.05	9.04	-0.01	9.04	9.04	0.00
190+77	RAA 1/2/3	9.04	9.04	0.00	9.04	9.04	0.00
189+66	RAA 1/2/3	9.04	9.04	0.00	9.04	9.04	0.00
188+76	RAA 1/2/3	9.04	9.04	0.00	9.04	9.04	0.00
187+81	RAA 1/2/3	9.03	9.03	0.00	9.03	9.03	0.00
186+70	RAA 1/2/3	9.02	9.02	0.00	9.02	9.02	0.00

Notes:  
 Values less than one indicate the Final (100%) RD will increase the flood capacity of the waterway within the modeled reach.  
 NAVD88: North American Vertical Datum of 1988  
 RAA: remedial action area  
 RD: remedial design  
 USACE: U.S. Army Corps of Engineers

## 4 Summary and Conclusions

The results of the hydraulic modeling analysis indicate that the base flood elevation is not expected to be significantly affected by the LDW upper reach remedial actions. Modeled water surface elevations within the upper reach are slightly lower under post-construction conditions compared to pre-construction conditions. HEC-RAS model files used in this evaluation are available upon request.

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Appendix L – No-Rise Evaluation

Attachment L.1

FEMA Flood Insurance Rate Maps

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**NOTES TO USERS**

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NGS Information Services  
NOAA, NINGS12  
National Geodetic Survey  
SSMC-3, #9202  
1315 East-West Highway  
Silver Spring, Maryland 20910-3282  
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

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The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

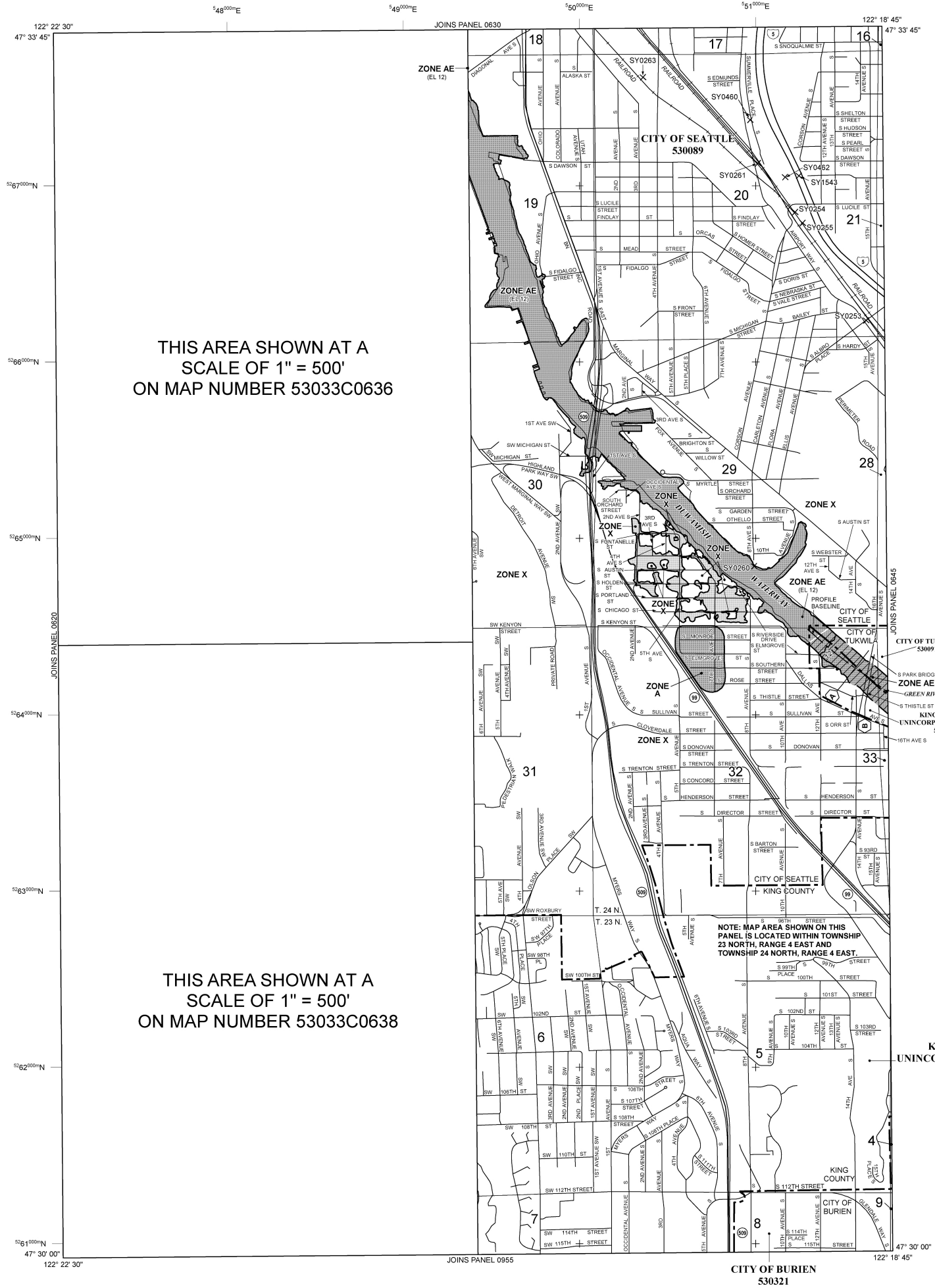
Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations** and **floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

**Corporate limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

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If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.



THIS AREA SHOWN AT A SCALE OF 1" = 500' ON MAP NUMBER 53033C0636

THIS AREA SHOWN AT A SCALE OF 1" = 500' ON MAP NUMBER 53033C0638

NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 23 NORTH, RANGE 4 EAST AND TOWNSHIP 24 NORTH, RANGE 4 EAST.

KING COUNTY UNINCORPORATED AREAS 530071

CITY OF BURIEEN 530321

**LEGEND**

**SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**  
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.  
**ZONE AE** Base Flood Elevations determined.  
**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.  
**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.  
**ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently deteriorated. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.  
**ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.  
**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.  
**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**  
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**  
**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.  
**OTHER AREAS**  
**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.  
**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**  
**OTHERWISE PROTECTED AREAS (OPAs)**  
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.  
1% Annual Chance Floodplain Boundary  
0.2% Annual Chance Floodplain Boundary  
Floodway boundary  
Zone D boundary  
CBRS and OPA boundary  
Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.  
Base Flood Elevation line and value; elevation in feet\*  
Base Flood Elevation value where uniform within zone; elevation in feet\*

\*Referenced to the North American Vertical Datum of 1988

**MAP REPOSITORIES**  
Refer to Map Repositories list on Map Index  
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
September 28, 1989  
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL  
May 16, 1995  
August 19, 2020 - to change Base Flood Elevations, to update corporate limits, to add roads and road names, to update the effects of wave action, to change Special Flood Hazard Areas, to change zone designations and to incorporate previously issued Letters of Map Revision.

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To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Programs at 1-800-638-6620.

**MAP SCALE 1" = 1000'**  
500 1000 2000  
300 0 300 600 METERS

**NFP**  
**NATIONAL FLOOD INSURANCE PROGRAM**

PANEL 0640G

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**KING COUNTY, WASHINGTON AND INCORPORATED AREAS**

PANEL 640 OF 1725  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BURIEEN CITY OF	530321	0640	G
KING COUNTY	530071	0640	G
SEATTLE CITY OF	530089	0640	G
TUKWILA CITY OF	530091	0640	G

Notice to User: The **Map Number** shown below should be used when placing map orders, the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER**  
**53033C0640G**  
**MAP REVISED**  
**AUGUST 19, 2020**  
Federal Emergency Management Agency

**NOTES TO USERS**

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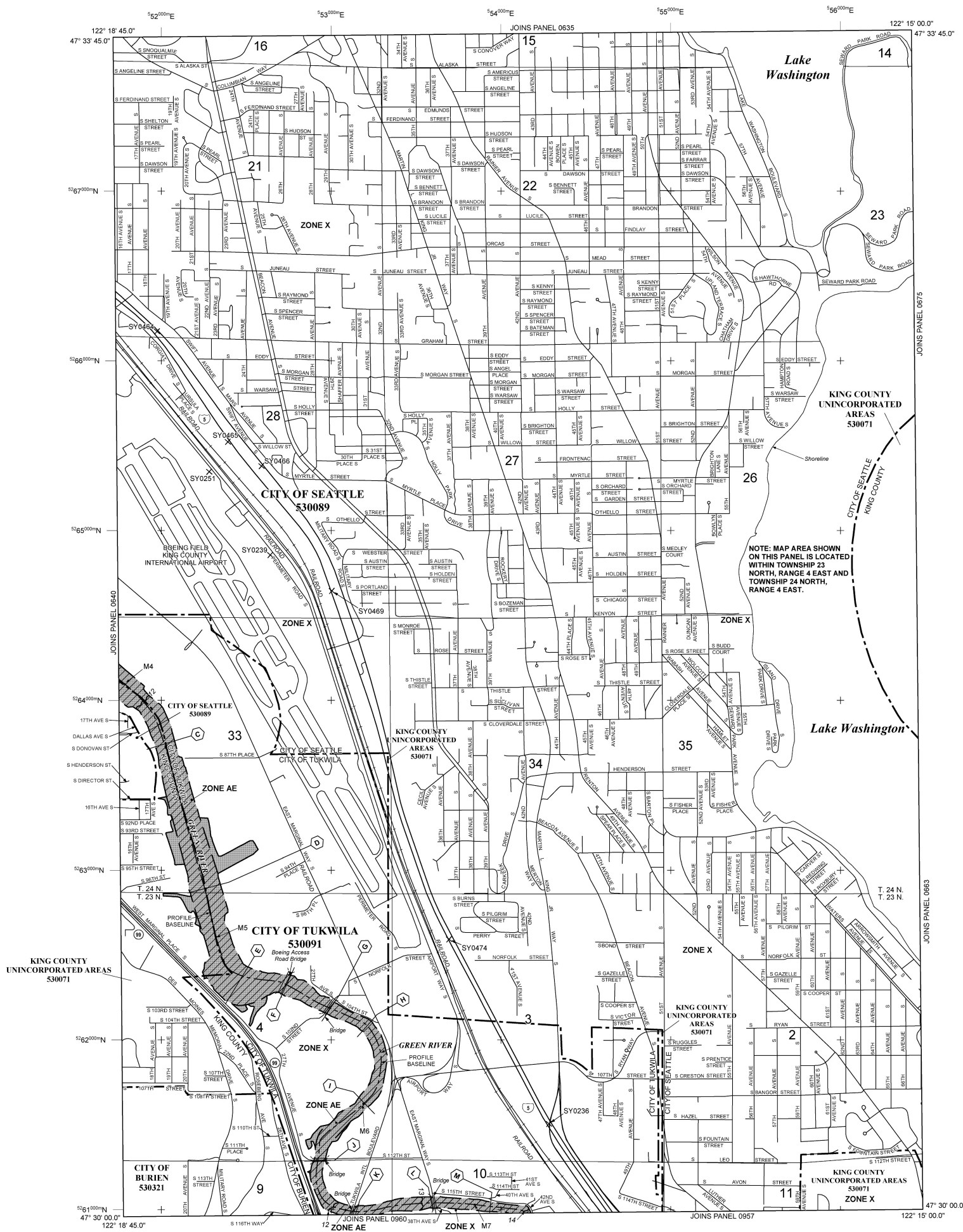
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Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.  
Base Flood Elevation line and value; elevation in feet\*  
Base Flood Elevation value where uniform within zone; elevation in feet\*

\*Referenced to the North American Vertical Datum of 1988

**Cross section line**  
**Transect line**  
45° 02' 08", 93° 02' 12"  
Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere  
#690000N  
1000-meter Universal Transverse Mercator grid values, zone 10  
DX5510 X  
Bench mark (see explanation in Notes to Users section of this FIRM panel)  
\* M1.5  
River Mile

**MAP REPOSITORIES**  
Refer to Map Repositories list on Map Index  
**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**  
September 28, 1989  
**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**  
May 16, 1995  
August 19, 2020 - to change Base Flood Elevations, to update corporate limits, to add roads and road names, to update the effects of wave action, to change Special Flood Hazard Areas, to change zone designations and to incorporate previously issued Letters of Map Revision.

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500 1000 2000  
300 0 300 600 METERS

**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0645G**

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**KING COUNTY, WASHINGTON AND INCORPORATED AREAS**

**PANEL 645 OF 1725**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
BURDEN CITY OF	530321	0645	G
KING COUNTY	530071	0645	G
SEATTLE CITY OF	530089	0645	G
TUKWILA CITY OF	530091	0645	G

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**MAP NUMBER**  
**53033C0645G**  
**MAP REVISED**  
**AUGUST 19, 2020**  
Federal Emergency Management Agency

Appendix L – No-Rise Evaluation

Attachment L.2

Complete Water Surface Elevation Results



Cross-section River Mile	100-year Event							Extreme Tide Event			10-year Event		
	Effective Water surface Elevation (ft, NAVD88)	Duplicate Water Surface Elevation (ft, NAVD88)	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Duplicate - Effective WSEL	Existing - Duplicate WSEL	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL
339478	--	--	1,025.61	1,025.61	--	--	0.00	1,025.61	1,025.61	0.00	1,024.91	1,024.91	0.00
338369	--	--	1,019.16	1,019.16	--	--	0.00	1,019.16	1,019.16	0.00	1,018.65	1,018.65	0.00
337904	--	--	1,014.70	1,014.70	--	--	0.00	1,014.70	1,014.70	0.00	1,014.20	1,014.20	0.00
337482	--	--	1,009.55	1,009.55	--	--	0.00	1,009.55	1,009.55	0.00	1,009.06	1,009.06	0.00
336700	--	--	1,002.09	1,002.09	--	--	0.00	1,002.09	1,002.09	0.00	1,001.48	1,001.48	0.00
335935	--	--	995.76	995.76	--	--	0.00	995.76	995.76	0.00	995.17	995.17	0.00
335127	--	--	991.06	991.06	--	--	0.00	991.06	991.06	0.00	990.49	990.49	0.00
334335	--	--	986.86	986.86	--	--	0.00	986.86	986.86	0.00	986.32	986.32	0.00
333485	--	--	982.29	982.29	--	--	0.00	982.29	982.29	0.00	981.75	981.75	0.00
332814	--	--	977.23	977.23	--	--	0.00	977.23	977.23	0.00	976.62	976.62	0.00
331901	--	--	971.18	971.18	--	--	0.00	971.18	971.18	0.00	970.54	970.54	0.00
331251	--	--	961.18	961.18	--	--	0.00	961.18	961.18	0.00	960.63	960.63	0.00
330787	--	--	953.22	953.22	--	--	0.00	953.22	953.22	0.00	952.47	952.47	0.00
330211	--	--	950.04	950.04	--	--	0.00	950.04	950.04	0.00	949.34	949.34	0.00
329667	--	--	947.40	947.40	--	--	0.00	947.40	947.40	0.00	946.78	946.78	0.00
328965	--	--	943.12	943.12	--	--	0.00	943.12	943.12	0.00	942.49	942.49	0.00
328041	--	--	934.13	934.13	--	--	0.00	934.13	934.13	0.00	933.57	933.57	0.00
327027	--	--	929.73	929.73	--	--	0.00	929.73	929.73	0.00	929.05	929.05	0.00
326288	--	--	926.25	926.25	--	--	0.00	926.25	926.25	0.00	925.64	925.64	0.00
325755	--	--	924.24	924.24	--	--	0.00	924.24	924.24	0.00	923.62	923.62	0.00
325206	--	--	922.15	922.15	--	--	0.00	922.15	922.15	0.00	921.53	921.53	0.00
324789	--	--	919.94	919.94	--	--	0.00	919.94	919.94	0.00	919.33	919.33	0.00
324519	--	--	919.40	919.40	--	--	0.00	919.40	919.40	0.00	918.78	918.78	0.00
324255	--	--	918.15	918.15	--	--	0.00	918.15	918.15	0.00	917.57	917.57	0.00
324060	--	--	917.53	917.53	--	--	0.00	917.53	917.53	0.00	916.96	916.96	0.00
323706	--	--	916.06	916.06	--	--	0.00	916.06	916.06	0.00	915.49	915.49	0.00
323226	--	--	913.91	913.91	--	--	0.00	913.91	913.91	0.00	913.37	913.37	0.00
322877	--	--	913.15	913.15	--	--	0.00	913.15	913.15	0.00	912.61	912.61	0.00
322692	--	--	912.45	912.45	--	--	0.00	912.45	912.45	0.00	911.92	911.92	0.00
322539	--	--	912.40	912.40	--	--	0.00	912.40	912.40	0.00	911.88	911.88	0.00
322360	--	--	912.06	912.06	--	--	0.00	912.06	912.06	0.00	911.56	911.56	0.00
322323	--	--	912.02	912.02	--	--	0.00	912.02	912.02	0.00	911.51	911.51	0.00

Cross-section River Mile	100-year Event							Extreme Tide Event			10-year Event		
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322106	--	--	911.53	911.53	--	--	0.00	911.53	911.53	0.00	911.07	911.07	0.00
321990	--	--	0.00	0.00	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
321964	--	--	894.61	894.61	--	--	0.00	894.61	894.61	0.00	893.86	893.86	0.00
321383	--	--	891.65	891.65	--	--	0.00	891.65	891.65	0.00	890.90	890.90	0.00
320913	--	--	889.87	889.87	--	--	0.00	889.87	889.87	0.00	889.11	889.11	0.00
320401	--	--	884.11	884.11	--	--	0.00	884.11	884.11	0.00	883.54	883.54	0.00
319910	--	--	883.06	883.06	--	--	0.00	883.06	883.06	0.00	882.46	882.46	0.00
319419	--	--	881.55	881.55	--	--	0.00	881.55	881.55	0.00	881.02	881.02	0.00
318690	--	--	879.30	879.30	--	--	0.00	879.30	879.30	0.00	878.83	878.83	0.00
318664	--	--	878.80	878.80	--	--	0.00	878.80	878.80	0.00	878.36	878.36	0.00
318109	--	--	874.69	874.69	--	--	0.00	874.69	874.69	0.00	874.22	874.22	0.00
316832	--	--	867.54	867.54	--	--	0.00	867.54	867.54	0.00	867.14	867.14	0.00
315623	--	--	859.17	859.17	--	--	0.00	859.17	859.17	0.00	858.76	858.76	0.00
314635	--	--	851.57	851.57	--	--	0.00	851.57	851.57	0.00	851.05	851.05	0.00
313801	--	--	847.30	847.30	--	--	0.00	847.30	847.30	0.00	846.84	846.84	0.00
312903	--	--	840.36	840.36	--	--	0.00	840.36	840.36	0.00	839.72	839.72	0.00
311853	--	--	836.28	836.28	--	--	0.00	836.28	836.28	0.00	835.75	835.75	0.00
311340	--	--	834.24	834.24	--	--	0.00	834.24	834.24	0.00	833.84	833.84	0.00
310533	--	--	830.64	830.64	--	--	0.00	830.64	830.64	0.00	830.27	830.27	0.00
309830	--	--	826.98	826.98	--	--	0.00	826.98	826.98	0.00	826.63	826.63	0.00
309107	--	--	822.81	822.81	--	--	0.00	822.81	822.81	0.00	822.52	822.52	0.00
308368	--	--	818.08	818.08	--	--	0.00	818.08	818.08	0.00	817.64	817.64	0.00
307956	--	--	817.14	817.14	--	--	0.00	817.14	817.14	0.00	816.67	816.67	0.00
307708	--	--	815.79	815.79	--	--	0.00	815.79	815.79	0.00	815.38	815.38	0.00
307660	--	--	815.37	815.37	--	--	0.00	815.37	815.37	0.00	814.97	814.97	0.00
307402	--	--	812.86	812.86	--	--	0.00	812.86	812.86	0.00	812.36	812.36	0.00
306984	--	--	810.34	810.34	--	--	0.00	810.34	810.34	0.00	809.79	809.79	0.00
306816	--	--	808.59	808.59	--	--	0.00	808.59	808.59	0.00	808.03	808.03	0.00
306324	--	--	806.37	806.37	--	--	0.00	806.37	806.37	0.00	805.78	805.78	0.00
305628	--	--	804.00	804.00	--	--	0.00	804.00	804.00	0.00	803.41	803.41	0.00
305538	--	--	800.01	800.01	--	--	0.00	800.01	800.01	0.00	799.56	799.56	0.00
304925	--	--	795.90	795.90	--	--	0.00	795.90	795.90	0.00	795.34	795.34	0.00

Cross-section River Mile	100-year Event							Extreme Tide Event			10-year Event		
	Effective Water surface Elevation (ft, NAVD88)	Duplicate Water Surface Elevation (ft, NAVD88)	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Duplicate - Effective WSEL	Existing - Duplicate WSEL	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL
304366	--	--	793.55	793.55	--	--	0.00	793.55	793.55	0.00	792.93	792.93	0.00
303706	--	--	791.21	791.21	--	--	0.00	791.21	791.21	0.00	790.56	790.56	0.00
303637	--	--	789.60	789.60	--	--	0.00	789.60	789.60	0.00	788.98	788.98	0.00
303405	--	--	790.25	790.25	--	--	0.00	790.25	790.25	0.00	789.58	789.58	0.00
302639	--	--	788.68	788.68	--	--	0.00	788.68	788.68	0.00	788.03	788.03	0.00
301942	--	--	781.72	781.72	--	--	0.00	781.72	781.72	0.00	781.42	781.42	0.00
301509	--	--	781.44	781.44	--	--	0.00	781.44	781.44	0.00	781.00	781.00	0.00
301066	--	--	779.80	779.80	--	--	0.00	779.80	779.80	0.00	779.40	779.40	0.00
300464	--	--	778.20	778.20	--	--	0.00	778.20	778.20	0.00	777.68	777.68	0.00
299856	--	--	775.07	775.07	--	--	0.00	775.07	775.07	0.00	774.56	774.56	0.00
298758	--	--	768.21	768.21	--	--	0.00	768.21	768.21	0.00	767.72	767.72	0.00
297428	--	--	758.17	758.17	--	--	0.00	758.17	758.17	0.00	757.73	757.73	0.00
296831	--	--	752.98	752.98	--	--	0.00	752.98	752.98	0.00	752.58	752.58	0.00
296245	--	--	748.76	748.76	--	--	0.00	748.76	748.76	0.00	748.40	748.40	0.00
295786	--	--	741.82	741.82	--	--	0.00	741.82	741.82	0.00	741.36	741.36	0.00
295136	--	--	736.13	736.13	--	--	0.00	736.13	736.13	0.00	735.69	735.69	0.00
294624	--	--	729.45	729.45	--	--	0.00	729.45	729.45	0.00	729.07	729.07	0.00
293890	--	--	721.89	721.89	--	--	0.00	721.89	721.89	0.00	721.40	721.40	0.00
293679	--	--	721.87	721.87	--	--	0.00	721.87	721.87	0.00	721.35	721.35	0.00
293161	--	--	718.41	718.41	--	--	0.00	718.41	718.41	0.00	717.97	717.97	0.00
292459	--	--	710.82	710.82	--	--	0.00	710.82	710.82	0.00	710.47	710.47	0.00
291699	--	--	699.46	699.46	--	--	0.00	699.46	699.46	0.00	698.95	698.95	0.00
290949	--	--	693.47	693.47	--	--	0.00	693.47	693.47	0.00	692.97	692.97	0.00
290426	--	--	687.58	687.58	--	--	0.00	687.58	687.58	0.00	687.18	687.18	0.00
289597	--	--	674.76	674.76	--	--	0.00	674.76	674.76	0.00	674.40	674.40	0.00
288827	--	--	658.72	658.72	--	--	0.00	658.72	658.72	0.00	658.32	658.32	0.00
287887	--	--	653.81	653.81	--	--	0.00	653.81	653.81	0.00	653.27	653.27	0.00
287000	--	--	648.43	648.43	--	--	0.00	648.43	648.43	0.00	648.02	648.02	0.00
286229	--	--	636.55	636.55	--	--	0.00	636.55	636.55	0.00	636.14	636.14	0.00
285532	--	--	628.14	628.14	--	--	0.00	628.14	628.14	0.00	627.62	627.62	0.00
284719	--	--	622.06	622.06	--	--	0.00	622.06	622.06	0.00	621.60	621.60	0.00
284053	--	--	611.42	611.42	--	--	0.00	611.42	611.42	0.00	611.00	611.00	0.00

Cross-section River Mile	100-year Event							Extreme Tide Event			10-year Event		
	Effective Water surface Elevation (ft, NAVD88)	Duplicate Water Surface Elevation (ft, NAVD88)	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Duplicate - Effective WSEL	Existing - Duplicate WSEL	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL
283589	--	--	608.09	608.09	--	--	0.00	608.09	608.09	0.00	607.63	607.63	0.00
282818	--	--	601.14	601.14	--	--	0.00	601.14	601.14	0.00	600.80	600.80	0.00
282353	--	--	594.94	594.94	--	--	0.00	594.94	594.94	0.00	594.47	594.47	0.00
281593	--	--	580.87	580.87	--	--	0.00	580.87	580.87	0.00	580.49	580.49	0.00
280949	--	--	570.11	570.11	--	--	0.00	570.11	570.11	0.00	569.61	569.61	0.00
280125	--	--	565.76	565.76	--	--	0.00	565.76	565.76	0.00	565.20	565.20	0.00
279386	--	--	559.35	559.35	--	--	0.00	559.35	559.35	0.00	558.92	558.92	0.00
278583	--	--	551.38	551.38	--	--	0.00	551.38	551.38	0.00	550.90	550.90	0.00
278161	--	--	547.61	547.61	--	--	0.00	547.61	547.61	0.00	547.12	547.12	0.00
277707	--	--	541.72	541.72	--	--	0.00	541.72	541.72	0.00	541.26	541.26	0.00
277105	--	--	536.52	536.52	--	--	0.00	536.52	536.52	0.00	536.02	536.02	0.00
276619	--	--	528.36	528.36	--	--	0.00	528.36	528.36	0.00	528.04	528.04	0.00
275943	--	--	525.22	525.22	--	--	0.00	525.22	525.22	0.00	524.62	524.62	0.00
275458	--	--	519.39	519.39	--	--	0.00	519.39	519.39	0.00	518.96	518.96	0.00
274565	--	--	511.07	511.07	--	--	0.00	511.07	511.07	0.00	510.57	510.57	0.00
273800	--	--	504.91	504.91	--	--	0.00	504.91	504.91	0.00	504.41	504.41	0.00
272923	--	--	498.18	498.18	--	--	0.00	498.18	498.18	0.00	497.65	497.65	0.00
272342	--	--	494.83	494.83	--	--	0.00	494.83	494.83	0.00	494.31	494.31	0.00
271909	--	--	487.65	487.65	--	--	0.00	487.65	487.65	0.00	487.26	487.26	0.00
271535	--	--	483.16	483.16	--	--	0.00	483.16	483.16	0.00	482.73	482.73	0.00
271038	--	--	479.23	479.23	--	--	0.00	479.23	479.23	0.00	478.81	478.81	0.00
270579	--	--	475.00	475.00	--	--	0.00	475.00	475.00	0.00	474.51	474.51	0.00
270114	--	--	470.59	470.59	--	--	0.00	470.59	470.59	0.00	470.12	470.12	0.00
269729	--	--	467.51	467.51	--	--	0.00	467.51	467.51	0.00	467.17	467.17	0.00
269264	--	--	460.46	460.46	--	--	0.00	460.46	460.46	0.00	459.95	459.95	0.00
268752	--	--	458.33	458.33	--	--	0.00	458.33	458.33	0.00	457.35	457.35	0.00
268388	--	--	456.73	456.73	--	--	0.00	456.73	456.73	0.00	455.79	455.79	0.00
268182	--	--	456.67	456.67	--	--	0.00	456.67	456.67	0.00	455.70	455.70	0.00
267854	--	--	448.75	448.75	--	--	0.00	448.75	448.75	0.00	447.97	447.97	0.00
267516	--	--	442.91	442.91	--	--	0.00	442.91	442.91	0.00	442.40	442.40	0.00
267115	--	--	439.38	439.38	--	--	0.00	439.38	439.38	0.00	438.94	438.94	0.00
266561	--	--	432.85	432.85	--	--	0.00	432.85	432.85	0.00	432.16	432.16	0.00

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266133	--	--	430.65	430.65	--	--	0.00	430.65	430.65	0.00	429.88	429.88	0.00
265668	--	--	425.87	425.87	--	--	0.00	425.87	425.87	0.00	425.26	425.26	0.00
265362	--	--	424.50	424.50	--	--	0.00	424.50	424.50	0.00	423.88	423.88	0.00
265014	--	--	420.23	420.23	--	--	0.00	420.23	420.23	0.00	419.73	419.73	0.00
264370	--	--	414.39	414.39	--	--	0.00	414.39	414.39	0.00	413.82	413.82	0.00
263657	--	--	409.85	409.85	--	--	0.00	409.85	409.85	0.00	409.33	409.33	0.00
262743	--	--	405.46	405.46	--	--	0.00	405.46	405.46	0.00	405.03	405.03	0.00
262221	--	--	401.09	401.09	--	--	0.00	401.09	401.09	0.00	400.55	400.55	0.00
261645	--	--	399.18	399.18	--	--	0.00	399.18	399.18	0.00	398.66	398.66	0.00
261318	--	--	397.57	397.57	--	--	0.00	397.57	397.57	0.00	397.08	397.08	0.00
260996	--	--	393.28	393.28	--	--	0.00	393.28	393.28	0.00	393.00	393.00	0.00
260478	--	--	388.62	388.62	--	--	0.00	388.62	388.62	0.00	388.17	388.17	0.00
260040	--	--	386.63	386.63	--	--	0.00	386.63	386.63	0.00	386.12	386.12	0.00
259570	--	--	384.93	384.93	--	--	0.00	384.93	384.93	0.00	384.41	384.41	0.00
259259	--	--	383.25	383.25	--	--	0.00	383.25	383.25	0.00	382.81	382.81	0.00
258884	--	--	381.56	381.56	--	--	0.00	381.56	381.56	0.00	381.10	381.10	0.00
258224	--	--	376.87	376.87	--	--	0.00	376.87	376.87	0.00	376.41	376.41	0.00
257574	--	--	373.55	373.55	--	--	0.00	373.55	373.55	0.00	373.11	373.11	0.00
256824	--	--	367.28	367.28	--	--	0.00	367.28	367.28	0.00	366.88	366.88	0.00
256312	--	--	362.92	362.92	--	--	0.00	362.92	362.92	0.00	362.47	362.47	0.00
255895	--	--	360.60	360.60	--	--	0.00	360.60	360.60	0.00	360.14	360.14	0.00
255272	--	--	357.96	357.96	--	--	0.00	357.96	357.96	0.00	357.46	357.46	0.00
254850	--	--	355.26	355.26	--	--	0.00	355.26	355.26	0.00	354.79	354.79	0.00
254464	--	--	353.63	353.63	--	--	0.00	353.63	353.63	0.00	353.18	353.18	0.00
253778	--	--	348.65	348.65	--	--	0.00	348.65	348.65	0.00	348.25	348.25	0.00
253398	--	--	346.22	346.22	--	--	0.00	346.22	346.22	0.00	345.83	345.83	0.00
253039	--	--	343.14	343.14	--	--	0.00	343.14	343.14	0.00	342.64	342.64	0.00
252732	--	--	341.13	341.13	--	--	0.00	341.13	341.13	0.00	340.59	340.59	0.00
252004	--	--	332.91	332.91	--	--	0.00	332.91	332.91	0.00	332.58	332.58	0.00
251497	--	--	329.28	329.28	--	--	0.00	329.28	329.28	0.00	328.89	328.89	0.00
251133	--	--	325.76	325.76	--	--	0.00	325.76	325.76	0.00	325.43	325.43	0.00
250726	--	--	321.99	321.99	--	--	0.00	321.99	321.99	0.00	321.57	321.57	0.00



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224574	198.22	198.22	200.00	200.00	0.00	1.78	0.00	200.00	200.00	0.00	200.18	200.18	0.00
223545	195.23	195.23	197.27	197.27	0.00	2.04	0.00	197.27	197.27	0.00	197.16	197.16	0.00
222367	189.83	189.83	192.85	192.85	0.00	3.02	0.00	192.85	192.85	0.00	192.37	192.37	0.00
221290	186.11	186.11	188.52	188.52	0.00	2.41	0.00	188.52	188.52	0.00	188.01	188.01	0.00
219891	178.16	178.16	181.53	181.53	0.00	3.37	0.00	181.53	181.53	0.00	181.06	181.06	0.00
218555	173.92	173.92	176.78	176.78	0.00	2.86	0.00	176.78	176.78	0.00	176.26	176.26	0.00
217599	170.97	170.97	173.55	173.55	0.00	2.58	0.00	173.55	173.55	0.00	172.92	172.92	0.00
217557	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217504	170.25	170.25	172.72	172.72	0.00	2.47	0.00	172.72	172.72	0.00	172.32	172.32	0.00
216549	167.82	167.82	169.60	169.60	0.00	1.78	0.00	169.60	169.60	0.00	169.34	169.34	0.00
215223	162.18	162.18	164.96	164.96	0.00	2.78	0.00	164.96	164.96	0.00	164.59	164.59	0.00
213972	158.57	158.57	160.47	160.47	0.00	1.90	0.00	160.47	160.47	0.00	160.16	160.16	0.00
213418	155.88	155.88	158.38	158.38	0.00	2.50	0.00	158.38	158.38	0.00	158.02	158.02	0.00
212061	150.91	150.91	153.48	153.48	0.00	2.57	0.00	153.48	153.48	0.00	153.03	153.03	0.00
211121	147.40	147.40	149.46	149.46	0.00	2.06	0.00	149.46	149.46	0.00	149.11	149.11	0.00
210762	145.85	145.85	147.84	147.84	0.00	1.99	0.00	147.84	147.84	0.00	147.53	147.53	0.00
209679	143.60	143.60	144.76	144.76	0.00	1.16	0.00	144.76	144.76	0.00	144.59	144.59	0.00
208391	138.79	138.79	139.83	139.83	0.00	1.04	0.00	139.83	139.83	0.00	139.73	139.73	0.00
207092	133.95	133.95	135.05	135.05	0.00	1.10	0.00	135.05	135.05	0.00	134.90	134.90	0.00
205667	133.17	133.17	134.25	134.25	0.00	1.08	0.00	134.25	134.25	0.00	134.06	134.06	0.00
203988	129.88	129.88	131.35	131.35	0.00	1.47	0.00	131.35	131.35	0.00	131.12	131.12	0.00
202884	126.12	126.12	127.77	127.77	0.00	1.65	0.00	127.77	127.77	0.00	127.57	127.57	0.00
201332	121.67	121.67	123.12	123.12	0.00	1.45	0.00	123.12	123.12	0.00	122.93	122.93	0.00
200508	119.94	119.94	121.37	121.37	0.00	1.43	0.00	121.37	121.37	0.00	121.12	121.12	0.00
198924	117.84	117.84	119.02	119.02	0.00	1.18	0.00	119.02	119.02	0.00	118.73	118.73	0.00
198063	114.96	114.96	116.66	116.66	0.00	1.70	0.00	116.66	116.66	0.00	116.39	116.39	0.00
196976	113.92	113.92	115.34	115.34	0.00	1.42	0.00	115.34	115.34	0.00	115.02	115.02	0.00
196242	112.21	112.21	113.93	113.93	0.00	1.72	0.00	113.93	113.93	0.00	113.62	113.62	0.00
195101	109.12	109.12	110.96	110.96	0.00	1.84	0.00	110.96	110.96	0.00	110.71	110.71	0.00
193966	107.17	107.17	108.90	108.90	0.00	1.73	0.00	108.90	108.90	0.00	108.73	108.73	0.00
192952	106.09	106.09	107.59	107.59	0.00	1.50	0.00	107.59	107.59	0.00	107.54	107.54	0.00
192134	104.62	104.62	107.03	107.03	0.00	2.41	0.00	107.03	107.03	0.00	106.64	106.64	0.00

Cross-section River Mile	100-year Event							Extreme Tide Event			10-year Event		
	Effective Water surface Elevation (ft, NAVD88)	Duplicate Water Surface Elevation (ft, NAVD88)	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Duplicate - Effective WSEL	Existing - Duplicate WSEL	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL
191358	102.85	102.85	105.01	105.01	0.00	2.16	0.00	105.01	105.01	0.00	104.65	104.65	0.00
190143	100.52	100.52	102.02	102.02	0.00	1.50	0.00	102.02	102.02	0.00	101.73	101.73	0.00
188966	98.50	98.50	99.66	99.66	0.00	1.16	0.00	99.66	99.66	0.00	99.38	99.38	0.00
188448	97.89	97.89	98.68	98.68	0.00	0.79	0.00	98.68	98.68	0.00	98.40	98.40	0.00
188031	96.84	96.84	97.91	97.91	0.00	1.07	0.00	97.91	97.91	0.00	97.62	97.62	0.00
186759	94.71	94.71	95.96	95.96	0.00	1.25	0.00	95.96	95.96	0.00	95.65	95.65	0.00
185302	92.47	92.47	93.57	93.57	0.00	1.10	0.00	93.57	93.57	0.00	93.28	93.28	0.00
184214	91.31	91.31	91.75	91.75	0.00	0.44	0.00	91.75	91.75	0.00	91.49	91.49	0.00
182831	88.36	88.36	89.39	89.39	0.00	1.03	0.00	89.39	89.39	0.00	89.19	89.19	0.00
182783	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
182730	87.82	87.82	88.89	88.89	0.00	1.07	0.00	88.89	88.89	0.00	88.76	88.76	0.00
181817	86.21	86.21	87.28	87.28	0.00	1.07	0.00	87.28	87.28	0.00	87.61	87.61	0.00
181104	85.69	85.69	87.17	87.17	0.00	1.48	0.00	87.17	87.17	0.00	84.14	84.14	0.00
180264	83.53	83.53	83.82	83.82	0.00	0.29	0.00	83.82	83.82	0.00	83.72	83.72	0.00
178865	82.11	82.11	83.44	83.44	0.00	1.33	0.00	83.44	83.44	0.00	82.75	82.75	0.00
177545	80.66	80.66	83.26	83.26	0.00	2.60	0.00	83.26	83.26	0.00	82.53	82.53	0.00
176268	78.55	78.55	82.34	82.34	0.00	3.79	0.00	82.34	82.34	0.00	81.57	81.57	0.00
176225	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
176178	78.34	78.34	82.16	82.16	0.00	3.82	0.00	82.16	82.16	0.00	81.38	81.38	0.00
176056	--	--	81.66	81.66	--	--	0.00	81.66	81.66	0.00	80.90	80.90	0.00
175940	78.63	78.63	81.86	81.86	0.00	3.23	0.00	81.86	81.86	0.00	81.09	81.09	0.00
175919	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175893	78.53	78.53	81.64	81.64	0.00	3.11	0.00	81.64	81.64	0.00	80.97	80.97	0.00
175708	78.07	78.07	81.22	81.22	0.00	3.15	0.00	81.22	81.22	0.00	80.60	80.60	0.00
175660	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175555	77.88	77.88	80.85	80.85	0.00	2.97	0.00	80.85	80.85	0.00	80.27	80.27	0.00
174462	76.38	76.37	78.94	78.94	-0.01	2.57	0.00	78.94	78.94	0.00	78.34	78.34	0.00
173353	74.80	74.73	77.13	77.13	-0.07	2.40	0.00	77.13	77.13	0.00	76.35	76.35	0.00
172540	71.21	71.39	76.38	76.38	0.18	4.99	0.00	76.38	76.38	0.00	75.43	75.43	0.00
171743	71.16	71.17	76.00	76.00	0.01	4.83	0.00	76.00	76.00	0.00	75.00	75.00	0.00
171209	70.52	70.52	75.69	75.69	0.00	5.17	0.00	75.69	75.69	0.00	74.67	74.67	0.00
170877	70.28	70.28	75.50	75.50	0.00	5.22	0.00	75.50	75.50	0.00	74.50	74.50	0.00



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170697	70.07	70.07	75.24	75.24	0.00	5.17	0.00	75.24	75.24	0.00	74.27	74.27	0.00
170280	69.55	69.55	75.11	75.11	0.00	5.56	0.00	75.11	75.11	0.00	74.09	74.09	0.00
169351	69.55	69.55	74.95	74.95	0.00	5.40	0.00	74.95	74.95	0.00	73.92	73.92	0.00
168448	68.72	68.72	74.55	74.55	0.00	5.83	0.00	74.55	74.55	0.00	73.48	73.48	0.00
167556	68.43	68.43	74.07	74.07	0.00	5.64	0.00	74.07	74.07	0.00	73.01	73.01	0.00
166774	67.91	67.91	73.51	73.51	0.00	5.60	0.00	73.51	73.51	0.00	72.48	72.48	0.00
166008	67.49	67.49	72.97	72.97	0.00	5.48	0.00	72.97	72.97	0.00	71.95	71.95	0.00
165195	66.54	66.54	72.10	72.10	0.00	5.56	0.00	72.10	72.10	0.00	71.11	71.11	0.00
165137	66.62	66.62	72.09	72.09	0.00	5.47	0.00	72.09	72.09	0.00	71.10	71.10	0.00
164150	66.20	66.20	71.22	71.22	0.00	5.02	0.00	71.22	71.22	0.00	70.31	70.31	0.00
164108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
164060	66.18	66.18	70.97	70.97	0.00	4.79	0.00	70.97	70.97	0.00	70.10	70.10	0.00
163506	65.52	65.52	70.32	70.32	0.00	4.80	0.00	70.32	70.32	0.00	69.49	69.49	0.00
162645	64.97	64.97	69.69	69.69	0.00	4.72	0.00	69.69	69.69	0.00	68.83	68.83	0.00
161505	63.46	63.46	68.66	68.66	0.00	5.20	0.00	68.66	68.66	0.00	67.80	67.80	0.00
160391	62.22	62.22	67.35	67.35	0.00	5.13	0.00	67.35	67.35	0.00	66.42	66.42	0.00
159509	61.60	61.60	66.58	66.58	0.00	4.98	0.00	66.58	66.58	0.00	65.62	65.62	0.00
158822	61.29	61.29	66.27	66.27	0.00	4.98	0.00	66.27	66.27	0.00	65.27	65.27	0.00
158078	60.28	60.27	65.34	65.34	-0.01	5.07	0.00	65.34	65.34	0.00	64.33	64.33	0.00
157777	--	--	65.00	65.00	--	--	0.00	65.00	65.00	0.00	63.97	63.97	0.00
157576	--	--	64.74	64.74	--	--	0.00	64.74	64.74	0.00	63.69	63.69	0.00
157386	--	--	64.39	64.39	--	--	0.00	64.39	64.39	0.00	63.34	63.34	0.00
157180	--	--	64.07	64.07	--	--	0.00	64.07	64.07	0.00	63.02	63.02	0.00
156953	--	--	63.85	63.85	--	--	0.00	63.85	63.85	0.00	62.78	62.78	0.00
156895	59.60	59.60	63.82	63.82	0.00	4.22	0.00	63.82	63.82	0.00	62.77	62.77	0.00
156879	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156869	59.61	59.61	63.76	63.76	0.00	4.15	0.00	63.76	63.76	0.00	62.71	62.71	0.00
156768	--	--	63.59	63.59	--	--	0.00	63.59	63.59	0.00	62.50	62.50	0.00
156610	--	--	63.51	63.51	--	--	0.00	63.51	63.51	0.00	62.43	62.43	0.00
156362	--	--	63.04	63.04	--	--	0.00	63.04	63.04	0.00	61.96	61.96	0.00
156161	--	--	62.84	62.84	--	--	0.00	62.84	62.84	0.00	61.76	61.76	0.00
155992	--	--	62.65	62.65	--	--	0.00	62.66	62.66	0.00	61.57	61.57	0.00

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155771	--	--	62.41	62.41	--	--	0.00	62.41	62.41	0.00	61.27	61.27	0.00
155570	--	--	62.16	62.16	--	--	0.00	62.16	62.16	0.00	61.07	61.07	0.00
155390	--	--	61.99	61.99	--	--	0.00	61.99	61.99	0.00	60.83	60.83	0.00
155184	--	--	61.82	61.82	--	--	0.00	61.82	61.82	0.00	60.65	60.65	0.00
154947	--	--	61.64	61.64	--	--	0.00	61.65	61.65	0.00	60.46	60.46	0.00
154746	--	--	61.62	61.62	--	--	0.00	61.62	61.62	0.00	60.44	60.44	0.00
154577	--	--	61.46	61.46	--	--	0.00	61.46	61.46	0.00	60.28	60.28	0.00
154350	--	--	61.38	61.38	--	--	0.00	61.38	61.38	0.00	60.17	60.17	0.00
154155	--	--	61.16	61.16	--	--	0.00	61.16	61.16	0.00	59.93	59.93	0.00
153954	--	--	61.09	61.09	--	--	0.00	61.09	61.09	0.00	59.85	59.85	0.00
153743	--	--	60.94	60.94	--	--	0.00	60.94	60.94	0.00	59.64	59.64	0.00
153548	--	--	60.88	60.88	--	--	0.00	60.88	60.88	0.00	59.53	59.53	0.00
153347	--	--	60.62	60.62	--	--	0.00	60.62	60.62	0.00	59.24	59.24	0.00
153136	--	--	60.37	60.37	--	--	0.00	60.38	60.38	0.00	59.05	59.05	0.00
152972	--	--	60.26	60.26	--	--	0.00	60.26	60.26	0.00	58.92	58.92	0.00
152740	--	--	60.07	60.07	--	--	0.00	60.07	60.07	0.00	58.75	58.75	0.00
152587	--	--	60.01	60.01	--	--	0.00	60.01	60.01	0.00	58.69	58.69	0.00
152328	--	--	59.68	59.68	--	--	0.00	59.68	59.68	0.00	58.35	58.35	0.00
152117	--	--	59.65	59.65	--	--	0.00	59.65	59.65	0.00	58.31	58.31	0.00
151927	--	--	59.51	59.51	--	--	0.00	59.51	59.51	0.00	58.17	58.17	0.00
151726	--	--	59.43	59.43	--	--	0.00	59.43	59.43	0.00	58.09	58.09	0.00
151531	--	--	59.40	59.40	--	--	0.00	59.40	59.40	0.00	58.05	58.05	0.00
151351	--	--	59.34	59.34	--	--	0.00	59.34	59.34	0.00	57.98	57.98	0.00
151108	--	--	59.12	59.12	--	--	0.00	59.12	59.12	0.00	57.74	57.74	0.00
150913	--	--	58.75	58.75	--	--	0.00	58.75	58.75	0.00	57.40	57.40	0.00
150718	--	--	58.64	58.64	--	--	0.00	58.64	58.64	0.00	57.28	57.28	0.00
150533	--	--	58.53	58.53	--	--	0.00	58.53	58.53	0.00	57.13	57.13	0.00
150337	--	--	58.32	58.32	--	--	0.00	58.32	58.32	0.00	56.87	56.87	0.00
150116	--	--	58.15	58.15	--	--	0.00	58.15	58.15	0.00	56.74	56.74	0.00
149931	--	--	57.91	57.91	--	--	0.00	57.91	57.91	0.00	56.52	56.52	0.00
149714	--	--	57.81	57.81	--	--	0.00	57.81	57.81	0.00	56.40	56.40	0.00
149487	--	--	57.71	57.71	--	--	0.00	57.71	57.71	0.00	56.29	56.29	0.00

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149318	--	--	57.52	57.52	--	--	0.00	57.52	57.52	0.00	56.10	56.10	0.00
149118	--	--	57.35	57.35	--	--	0.00	57.35	57.35	0.00	55.91	55.91	0.00
148917	--	--	57.26	57.26	--	--	0.00	57.26	57.26	0.00	55.82	55.82	0.00
148716	--	--	57.06	57.06	--	--	0.00	57.06	57.06	0.00	55.65	55.65	0.00
148389	--	55.09	56.78	56.78	--	1.69	0.00	56.78	56.78	0.00	55.34	55.34	0.00
148115	--	54.98	56.82	56.82	--	1.84	0.00	56.83	56.83	0.00	55.34	55.34	0.00
147724	--	54.94	56.73	56.73	--	1.79	0.00	56.73	56.73	0.00	55.22	55.22	0.00
147523	--	54.70	56.65	56.65	--	1.95	0.00	56.65	56.65	0.00	55.14	55.14	0.00
147323	--	54.39	56.59	56.59	--	2.20	0.00	56.59	56.59	0.00	55.09	55.09	0.00
147127	--	54.47	56.55	56.55	--	2.08	0.00	56.56	56.56	0.00	55.06	55.06	0.00
146932	--	54.27	56.35	56.35	--	2.08	0.00	56.35	56.35	0.00	54.85	54.85	0.00
146826	--	54.22	56.14	56.14	--	1.92	0.00	56.14	56.14	0.00	54.60	54.60	0.00
146678	--	0.00	56.13	56.13	--	56.13	0.00	56.13	56.13	0.00	54.63	54.63	0.00
146509	--	53.65	55.95	55.95	--	2.30	0.00	55.95	55.95	0.00	54.44	54.44	0.00
146356	--	53.41	55.87	55.87	--	2.46	0.00	55.87	55.87	0.00	54.37	54.37	0.00
146219	--	53.40	55.41	55.41	--	2.01	0.00	55.41	55.41	0.00	53.93	53.93	0.00
146193	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146166	--	53.37	55.32	55.32	--	1.95	0.00	55.33	55.33	0.00	53.85	53.85	0.00
146013	--	53.28	55.30	55.30	--	2.02	0.00	55.31	55.31	0.00	53.83	53.83	0.00
145818	--	53.30	55.19	55.19	--	1.89	0.00	55.20	55.20	0.00	53.70	53.70	0.00
145401	--	53.30	54.96	54.96	--	1.66	0.00	54.97	54.97	0.00	53.47	53.47	0.00
145168	--	53.24	54.91	54.91	--	1.67	0.00	54.91	54.91	0.00	53.41	53.41	0.00
144957	--	52.92	54.95	54.95	--	2.03	0.00	54.95	54.95	0.00	53.43	53.43	0.00
144741	52.65	52.65	54.85	54.85	0.00	2.20	0.00	54.85	54.85	0.00	53.32	53.32	0.00
144614	--	52.60	54.76	54.76	--	2.16	0.00	54.76	54.76	0.00	53.23	53.23	0.00
144461	--	52.16	54.75	54.75	--	2.59	0.00	54.75	54.75	0.00	53.23	53.23	0.00
144308	--	51.75	54.73	54.73	--	2.98	0.00	54.74	54.74	0.00	53.21	53.21	0.00
144149	--	51.26	54.68	54.68	--	3.42	0.00	54.68	54.68	0.00	53.15	53.15	0.00
143964	52.26	52.26	54.38	54.38	0.00	2.12	0.00	54.38	54.38	0.00	52.87	52.87	0.00
143716	--	50.87	54.14	54.14	--	3.27	0.00	54.14	54.14	0.00	52.63	52.63	0.00
143025	52.00	52.00	53.95	53.95	0.00	1.95	0.00	53.95	53.95	0.00	52.42	52.42	0.00
141868	51.58	51.58	53.41	53.41	0.00	1.83	0.00	53.42	53.42	0.00	51.86	51.86	0.00

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140638	51.15	51.15	52.85	52.85	0.00	1.70	0.00	52.85	52.85	0.00	51.28	51.28	0.00
139281	50.57	50.57	52.15	52.15	0.00	1.58	0.00	52.15	52.15	0.00	50.59	50.59	0.00
138563	50.49	50.49	52.03	52.03	0.00	1.54	0.00	52.04	52.04	0.00	50.46	50.46	0.00
137766	50.18	50.18	51.61	51.61	0.00	1.43	0.00	51.61	51.61	0.00	50.05	50.05	0.00
137280	49.98	49.98	51.31	51.31	0.00	1.33	0.00	51.32	51.32	0.00	49.76	49.76	0.00
137248	49.92	49.92	51.16	51.16	0.00	1.24	0.00	51.17	51.17	0.00	49.63	49.63	0.00
136499	49.59	49.59	50.87	50.87	0.00	1.28	0.00	50.87	50.87	0.00	49.34	49.34	0.00
134904	48.96	48.96	50.19	50.19	0.00	1.23	0.00	50.19	50.19	0.00	48.68	48.68	0.00
134160	48.71	48.71	49.91	49.91	0.00	1.20	0.00	49.92	49.92	0.00	48.42	48.42	0.00
133262	48.37	48.37	49.54	49.54	0.00	1.17	0.00	49.55	49.55	0.00	48.06	48.06	0.00
133204	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133140	48.28	48.28	49.36	49.36	0.00	1.08	0.00	49.37	49.37	0.00	47.90	47.90	0.00
132507	47.93	47.93	49.03	49.03	0.00	1.10	0.00	49.03	49.03	0.00	47.58	47.58	0.00
132465	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132417	47.96	47.96	49.10	49.09	0.00	1.14	-0.01	49.10	49.10	0.00	47.64	47.64	0.00
131139	47.36	47.36	48.32	48.32	0.00	0.96	0.00	48.33	48.33	0.00	46.93	46.93	0.00
130490	47.12	47.12	48.03	48.03	0.00	0.91	0.00	48.04	48.04	0.00	46.65	46.65	0.00
129777	46.70	46.70	47.54	47.54	0.00	0.84	0.00	47.55	47.55	0.00	46.20	46.20	0.00
128816	46.33	46.33	47.14	47.14	0.00	0.81	0.00	47.15	47.15	0.00	45.83	45.83	0.00
128109	45.97	45.97	46.66	46.66	0.00	0.69	0.00	46.67	46.67	0.00	45.39	45.39	0.00
128082	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128056	45.99	45.99	46.68	46.68	0.00	0.69	0.00	46.69	46.69	0.00	45.41	45.41	0.00
127053	45.41	45.41	45.91	45.91	0.00	0.50	0.00	45.92	45.92	0.00	44.70	44.70	0.00
127037	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127016	45.39	45.39	45.87	45.87	0.00	0.48	0.00	45.88	45.88	0.00	44.66	44.66	0.00
126958	45.43	45.43	45.95	45.95	0.00	0.52	0.00	45.96	45.96	0.00	44.74	44.74	0.00
126942	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126921	45.37	45.37	45.86	45.86	0.00	0.49	0.00	45.88	45.88	0.00	44.66	44.66	0.00
125796	44.97	44.97	45.48	45.48	0.00	0.51	0.00	45.49	45.49	0.00	44.30	44.30	0.00
125712	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125627	44.82	44.82	45.24	45.24	0.00	0.42	0.00	45.25	45.25	0.00	44.10	44.10	0.00
124872	44.53	44.53	45.05	45.05	0.00	0.52	0.00	45.06	45.06	0.00	43.88	43.88	0.00

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123953	44.27	44.27	44.83	44.83	0.00	0.56	0.00	44.85	44.85	0.00	43.65	43.65	0.00
123161	43.89	43.89	44.55	44.55	0.00	0.66	0.00	44.56	44.56	0.00	43.38	43.38	0.00
122448	43.71	43.71	44.47	44.47	0.00	0.76	0.00	44.49	44.49	0.00	43.29	43.29	0.00
122412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122375	43.66	43.66	44.40	44.40	0.00	0.74	0.00	44.41	44.41	0.00	43.22	43.22	0.00
121583	43.44	43.44	44.22	44.22	0.00	0.78	0.00	44.23	44.23	0.00	43.04	43.04	0.00
120426	43.12	43.12	43.89	43.89	0.00	0.77	0.00	43.90	43.90	0.00	42.72	42.72	0.00
119666	42.92	42.92	43.72	43.72	0.00	0.80	0.00	43.73	43.73	0.00	42.54	42.54	0.00
118425	42.57	42.57	43.43	43.43	0.00	0.86	0.00	43.45	43.45	0.00	42.26	42.26	0.00
117617	42.33	42.33	43.22	43.22	0.00	0.89	0.00	43.23	43.23	0.00	42.04	42.04	0.00
116487	42.08	42.08	43.05	43.05	0.00	0.97	0.00	43.06	43.06	0.00	41.87	41.87	0.00
116429	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
116371	41.98	41.98	42.93	42.93	0.00	0.95	0.00	42.95	42.95	0.00	41.75	41.75	0.00
115241	41.58	41.58	42.57	42.57	0.00	0.99	0.00	42.59	42.59	0.00	41.40	41.40	0.00
114465	41.39	41.39	42.39	42.39	0.00	1.00	0.00	42.41	42.41	0.00	41.21	41.21	0.00
113747	41.19	41.19	42.25	42.25	0.00	1.06	0.00	42.26	42.26	0.00	41.07	41.07	0.00
113008	40.94	40.94	41.97	41.97	0.00	1.03	0.00	41.99	41.99	0.00	40.80	40.80	0.00
112401	40.72	40.72	41.81	41.81	0.00	1.09	0.00	41.83	41.83	0.00	40.64	40.64	0.00
112369	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112337	40.72	40.72	41.83	41.83	0.00	1.11	0.00	41.85	41.85	0.00	40.66	40.66	0.00
112258	40.70	40.70	41.84	41.84	0.00	1.14	0.00	41.86	41.86	0.00	40.66	40.66	0.00
112242	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112226	40.66	40.66	41.75	41.75	0.00	1.09	0.00	41.77	41.77	0.00	40.58	40.58	0.00
111661	40.57	40.57	41.66	41.66	0.00	1.09	0.00	41.68	41.68	0.00	40.49	40.49	0.00
111160	40.33	40.34	41.45	41.45	0.01	1.11	0.00	41.47	41.47	0.00	40.29	40.29	0.00
110959	40.27	40.27	41.39	41.39	0.00	1.12	0.00	41.42	41.42	0.00	40.23	40.23	0.00
110410	40.17	40.17	41.35	41.35	0.00	1.18	0.00	41.37	41.37	0.00	40.19	40.19	0.00
109776	40.05	40.05	41.24	41.24	0.00	1.19	0.00	41.26	41.26	0.00	40.08	40.08	0.00
108673	39.77	39.77	40.95	40.95	0.00	1.18	0.00	40.97	40.97	0.00	39.80	39.80	0.00
107928	39.53	39.53	40.70	40.70	0.00	1.17	0.00	40.72	40.72	0.00	39.55	39.55	0.00
107063	39.24	39.24	40.45	40.45	0.00	1.21	0.00	40.48	40.48	0.00	39.31	39.31	0.00
106308	39.01	39.01	40.29	40.29	0.00	1.28	0.00	40.31	40.31	0.00	39.14	39.14	0.00

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105120	38.80	38.80	40.13	40.13	0.00	1.33	0.00	40.15	40.15	0.00	38.98	38.98	0.00
103794	38.46	38.46	39.69	39.69	0.00	1.23	0.00	39.72	39.72	0.00	38.56	38.56	0.00
102469	38.06	38.06	39.32	39.32	0.00	1.26	0.00	39.35	39.35	0.00	38.19	38.19	0.00
101820	37.91	37.91	39.19	39.19	0.00	1.28	0.00	39.22	39.22	0.00	38.06	38.06	0.00
101719	37.88	37.88	39.16	39.16	0.00	1.28	0.00	39.19	39.19	0.00	38.03	38.03	0.00
101566	37.78	37.78	39.04	39.04	0.00	1.26	0.00	39.06	39.06	0.00	37.91	37.91	0.00
100716	37.53	37.53	38.77	38.77	0.00	1.24	0.00	38.80	38.80	0.00	37.65	37.65	0.00
99333	--	37.26	38.45	38.45	--	1.19	0.00	38.48	38.48	0.00	37.33	37.33	0.00
99312	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99301	37.18	37.18	38.43	38.43	0.00	1.25	0.00	38.46	38.46	0.00	37.31	37.31	0.00
98271	36.73	36.73	37.88	37.88	0.00	1.15	0.00	37.91	37.91	0.00	36.77	36.77	0.00
97527	36.57	36.57	37.77	37.77	0.00	1.20	0.00	37.81	37.81	0.00	36.65	36.65	0.00
96693	36.45	36.45	37.69	37.69	0.00	1.24	0.00	37.73	37.73	0.00	36.57	36.57	0.00
95420	36.06	36.06	37.27	37.27	0.00	1.21	0.00	37.30	37.30	0.00	36.16	36.16	0.00
94285	35.68	35.68	36.89	36.89	0.00	1.21	0.00	36.93	36.93	0.00	35.78	35.78	0.00
94232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94195	35.66	35.66	36.79	36.79	0.00	1.13	0.00	36.83	36.83	0.00	35.69	35.69	0.00
93065	35.32	35.32	36.45	36.45	0.00	1.13	0.00	36.49	36.49	0.00	35.34	35.34	0.00
92020	35.02	35.02	36.12	36.11	0.00	1.10	-0.01	36.16	36.16	0.00	35.02	35.02	0.00
90932	34.61	34.61	35.64	35.64	0.00	1.03	0.00	35.69	35.69	0.00	34.56	34.56	0.00
89786	34.40	34.40	35.47	35.47	0.00	1.07	0.00	35.52	35.52	0.00	34.38	34.38	0.00
89744	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89691	34.36	34.36	35.39	35.39	0.00	1.03	0.00	35.44	35.44	0.00	34.31	34.31	0.00
88704	34.02	34.02	35.04	35.04	0.00	1.02	0.00	35.09	35.09	0.00	33.96	33.96	0.00
87743	33.84	33.84	34.88	34.88	0.00	1.04	0.00	34.93	34.93	0.00	33.80	33.80	0.00
86671	33.54	33.54	34.53	34.53	0.00	0.99	0.00	34.59	34.59	0.00	33.46	33.46	0.00
86407	33.49	33.49	34.46	34.46	0.00	0.97	0.00	34.52	34.51	-0.01	33.39	33.39	0.00
86339	33.50	33.50	34.47	34.47	0.00	0.97	0.00	34.53	34.53	0.00	33.40	33.40	0.00
85462	33.16	33.16	34.01	34.01	0.00	0.85	0.00	34.07	34.06	-0.01	32.95	32.95	0.00
84564	32.94	32.94	33.81	33.81	0.00	0.87	0.00	33.87	33.87	0.00	32.75	32.75	0.00
83714	32.81	32.81	33.67	33.67	0.00	0.86	0.00	33.73	33.73	0.00	32.61	32.61	0.00
83181	32.63	32.63	33.46	33.46	0.00	0.83	0.00	33.53	33.53	0.00	32.42	32.42	0.00

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83091	32.58	32.58	33.43	33.43	0.00	0.85	0.00	33.50	33.50	0.00	32.38	32.38	0.00
82342	32.35	32.35	33.06	33.06	0.00	0.71	0.00	33.13	33.13	0.00	32.02	32.02	0.00
81333	31.96	31.96	32.56	32.56	0.00	0.60	0.00	32.63	32.63	0.00	31.53	31.53	0.00
80504	31.78	31.78	32.38	32.38	0.00	0.60	0.00	32.45	32.45	0.00	31.35	31.35	0.00
79728	31.49	31.49	31.97	31.97	0.00	0.48	0.00	32.05	32.05	0.00	30.96	30.96	0.00
79052	31.34	31.34	31.84	31.84	0.00	0.50	0.00	31.91	31.91	0.00	30.82	30.82	0.00
78978	31.33	31.34	31.83	31.83	0.01	0.49	0.00	31.91	31.91	0.00	30.82	30.82	0.00
78852	31.22	31.22	31.69	31.69	0.00	0.47	0.00	31.77	31.77	0.00	30.68	30.68	0.00
77869	30.79	30.79	31.07	31.07	0.00	0.28	0.00	31.15	31.15	0.00	30.08	30.08	0.00
77848	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77832	30.77	30.77	31.07	31.07	0.00	0.30	0.00	31.15	31.15	0.00	30.08	30.07	-0.01
77579	30.78	30.78	31.11	31.11	0.00	0.33	0.00	31.20	31.20	0.00	30.11	30.11	0.00
77400	30.71	30.71	30.99	30.99	0.00	0.28	0.00	31.08	31.08	0.00	29.99	29.99	0.00
76740	30.36	30.36	30.47	30.47	0.00	0.11	0.00	30.56	30.56	0.00	29.49	29.49	0.00
75662	29.93	29.93	29.90	29.90	0.00	-0.03	0.00	30.01	30.01	0.00	28.93	28.93	0.00
75610	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75557	29.91	29.91	29.94	29.94	0.00	0.03	0.00	30.05	30.05	0.00	28.97	28.97	0.00
74812	29.73	29.73	29.73	29.73	0.00	0.00	0.00	29.84	29.84	0.00	28.76	28.76	0.00
74036	29.38	29.38	29.22	29.22	0.00	-0.16	0.00	29.33	29.33	0.00	28.27	28.27	0.00
73350	29.21	29.22	29.05	29.05	0.01	-0.17	0.00	29.17	29.17	0.00	28.10	28.10	0.00
72626	28.97	28.97	28.67	28.67	0.00	-0.30	0.00	28.80	28.80	0.00	27.74	27.74	0.00
71444	28.46	28.46	28.12	28.12	0.00	-0.34	0.00	28.26	28.25	-0.01	27.20	27.20	0.00
70520	--	27.03	27.80	27.80	--	0.77	0.00	27.94	27.94	0.00	26.89	26.89	0.00
70483	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70472	28.08	28.08	27.80	27.80	0.00	-0.28	0.00	27.94	27.94	0.00	26.89	26.89	0.00
69796	27.83	27.83	27.56	27.56	0.00	-0.27	0.00	27.71	27.71	0.00	26.66	26.66	0.00
68930	27.39	27.39	27.12	27.12	0.00	-0.27	0.00	27.28	27.28	0.00	26.22	26.22	0.00
68878	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68814	27.31	27.31	27.04	27.04	0.00	-0.27	0.00	27.20	27.20	0.00	26.14	26.14	0.00
68181	27.07	27.07	26.88	26.88	0.00	-0.19	0.00	27.05	27.05	0.00	25.99	25.99	0.00
67220	26.81	26.81	26.61	26.61	0.00	-0.20	0.00	26.78	26.78	0.00	25.71	25.71	0.00
66327	26.40	26.40	26.18	26.18	0.00	-0.22	0.00	26.37	26.36	-0.01	25.30	25.30	0.00

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	Effective Water surface Elevation (ft, NAVD88)	Duplicate Water Surface Elevation (ft, NAVD88)	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Duplicate - Effective WSEL	Existing - Duplicate WSEL	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL
65704	26.19	26.19	25.99	25.99	0.00	-0.20	0.00	26.18	26.18	0.00	25.12	25.12	0.00
65615	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65535	26.09	26.09	25.92	25.92	0.00	-0.17	0.00	26.12	26.11	-0.01	25.05	25.05	0.00
65366	25.95	25.95	25.69	25.69	0.00	-0.26	0.00	25.89	25.89	0.00	24.83	24.83	0.00
65314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65277	25.82	25.82	25.51	25.51	0.00	-0.31	0.00	25.71	25.71	0.00	24.66	24.66	0.00
64907	25.58	25.58	25.23	25.23	0.00	-0.35	0.00	25.44	25.44	0.00	24.39	24.39	0.00
64854	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64812	25.53	25.53	25.27	25.27	0.00	-0.26	0.00	25.48	25.48	0.00	24.44	24.44	0.00
64664	25.32	25.32	24.94	24.94	0.00	-0.38	0.00	25.16	25.16	0.00	24.13	24.13	0.00
64611	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64564	25.32	25.32	25.00	25.00	0.00	-0.32	0.00	25.21	25.21	0.00	24.18	24.17	-0.01
64490	25.38	25.38	25.14	25.14	0.00	-0.24	0.00	25.35	25.35	0.00	24.31	24.31	0.00
64474	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
64453	25.37	25.37	25.12	25.11	0.00	-0.25	-0.01	25.33	25.33	0.00	24.29	24.28	-0.01
63809	25.20	25.21	24.93	24.93	0.01	-0.28	0.00	25.15	25.15	0.00	24.10	24.10	0.00
62610	24.79	24.79	24.56	24.56	0.00	-0.23	0.00	24.80	24.80	0.00	23.74	23.74	0.00
61570	24.26	24.26	23.94	23.94	0.00	-0.32	0.00	24.20	24.19	-0.01	23.14	23.14	0.00
61533	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61501	24.19	24.19	23.88	23.88	0.00	-0.31	0.00	24.13	24.13	0.00	23.09	23.09	0.00
60646	23.80	23.80	23.59	23.59	0.00	-0.21	0.00	23.86	23.86	0.00	22.80	22.80	0.00
60504	23.81	23.81	23.61	23.61	0.00	-0.20	0.00	23.88	23.88	0.00	22.82	22.82	0.00
59796	23.46	23.46	23.24	23.24	0.00	-0.22	0.00	23.52	23.52	0.00	22.47	22.47	0.00
59036	23.07	23.07	22.90	22.90	0.00	-0.17	0.00	23.20	23.20	0.00	22.15	22.15	0.00
58075	22.65	22.66	22.54	22.54	0.01	-0.12	0.00	22.86	22.86	0.00	21.80	21.79	-0.01
58011	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57980	22.65	22.65	22.55	22.55	0.00	-0.10	0.00	22.87	22.87	0.00	21.81	21.81	0.00
57119	22.33	22.33	22.21	22.21	0.00	-0.12	0.00	22.55	22.55	0.00	21.47	21.47	0.00
57045	22.32	22.32	22.23	22.22	0.00	-0.09	-0.01	22.57	22.57	0.00	21.49	21.48	-0.01
56380	21.89	21.89	21.72	21.72	0.00	-0.17	0.00	22.09	22.09	0.00	21.00	21.00	0.00
55672	21.64	21.64	21.53	21.52	0.00	-0.11	-0.01	21.91	21.91	0.00	20.80	20.80	0.00
54907	21.27	21.27	21.12	21.12	0.00	-0.15	0.00	21.53	21.53	0.00	20.42	20.42	0.00





Cross-section River Mile	100-year Event							Extreme Tide Event			10-year Event		
	Effective Water surface Elevation (ft, NAVD88)	Duplicate Water Surface Elevation (ft, NAVD88)	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Duplicate - Effective WSEL	Existing - Duplicate WSEL	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL	Existing Condition Water Surface Elevation (ft, NAVD88)	Proposed Condition Water Surface Elevation (ft, NAVD88)	Proposed - Existing WSEL
34510	11.89	11.89	11.91	11.90	0.00	0.02	-0.01	14.02	14.01	-0.01	11.59	11.58	-0.01
33180	11.06	11.06	11.11	11.09	0.00	0.05	-0.02	13.52	13.51	-0.01	10.86	10.85	-0.01
33164	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33137	10.93	10.93	10.96	10.95	0.00	0.03	-0.01	13.44	13.43	-0.01	10.73	10.71	-0.02
31659	10.21	10.21	10.30	10.28	0.00	0.09	-0.02	13.08	13.07	-0.01	10.14	10.12	-0.02
30814	9.90	9.90	10.01	9.99	0.00	0.11	-0.02	12.92	12.91	-0.01	9.88	9.86	-0.02
30001	9.66	9.66	9.78	9.75	0.00	0.12	-0.03	12.80	12.78	-0.02	9.67	9.66	-0.01
29209	9.46	9.46	9.57	9.54	0.00	0.11	-0.03	12.69	12.67	-0.02	9.49	9.47	-0.02
29172	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29114	9.42	9.42	9.53	9.50	0.00	0.11	-0.03	12.66	12.65	-0.01	9.46	9.44	-0.02
28649	--	--	9.48	9.46	--	--	-0.02	12.65	12.63	-0.02	9.42	9.40	-0.02
28591	--	--	9.47	9.45	--	--	-0.02	12.64	12.63	-0.01	9.41	9.39	-0.02
28528	--	--	9.47	9.45	--	--	-0.02	12.65	12.63	-0.02	9.41	9.39	-0.02
28464	--	--	9.47	9.44	--	--	-0.03	12.64	12.63	-0.01	9.41	9.38	-0.03
28369	--	--	9.45	9.43	--	--	-0.02	12.64	12.62	-0.02	9.39	9.37	-0.02
28322	--	--	9.45	9.43	--	--	-0.02	12.64	12.62	-0.02	9.39	9.37	-0.02
28243	9.31	9.31	9.44	9.42	0.00	0.13	-0.02	12.63	12.62	-0.01	9.38	9.36	-0.02
28190	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28164	9.30	9.30	9.41	9.38	0.00	0.11	-0.03	12.61	12.60	-0.01	9.35	9.33	-0.02
27778	--	--	9.42	9.39	--	--	-0.03	12.63	12.61	-0.02	9.36	9.34	-0.02
27678	--	--	9.37	9.35	--	--	-0.02	12.60	12.59	-0.01	9.32	9.31	-0.01
27372	9.30	9.30	9.39	9.37	0.00	0.09	-0.02	12.62	12.60	-0.02	9.34	9.32	-0.02
25439	9.24	9.24	9.34	9.31	0.00	0.10	-0.03	12.58	12.57	-0.01	9.29	9.27	-0.02
25085	--	--	9.35	9.33	--	--	-0.02	12.59	12.58	-0.01	9.31	9.29	-0.02
24652	--	--	9.33	9.31	--	--	-0.02	12.58	12.57	-0.01	9.29	9.27	-0.02
24563	--	--	9.33	9.31	--	--	-0.02	12.58	12.57	-0.01	9.29	9.27	-0.02
24473	--	--	9.33	9.31	--	--	-0.02	12.58	12.57	-0.01	9.29	9.27	-0.02
24383	--	--	9.33	9.31	--	--	-0.02	12.58	12.57	-0.01	9.29	9.27	-0.02
24283	--	--	9.33	9.31	--	--	-0.02	12.58	12.57	-0.01	9.29	9.27	-0.02
24172	--	--	9.32	9.29	--	--	-0.03	12.57	12.56	-0.01	9.27	9.25	-0.02
23924	--	--	9.30	9.28	--	--	-0.02	12.56	12.55	-0.01	9.26	9.24	-0.02
23786	--	--	9.29	9.27	--	--	-0.02	12.56	12.54	-0.02	9.26	9.24	-0.02

Cross-section River Mile	100-year Event							Extreme Tide Event			10-year Event		
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23718	--	--	9.29	9.27	--	--	-0.02	12.55	12.54	-0.01	9.25	9.23	-0.02
23649	--	--	9.29	9.26	--	--	-0.03	12.55	12.54	-0.01	9.25	9.23	-0.02
23496	--	--	9.27	9.25	--	--	-0.02	12.54	12.53	-0.01	9.24	9.22	-0.02
23417	--	--	9.27	9.25	--	--	-0.02	12.54	12.53	-0.01	9.23	9.22	-0.01
23327	--	--	9.26	9.24	--	--	-0.02	12.54	12.52	-0.02	9.23	9.21	-0.02
23052	--	--	9.25	9.23	--	--	-0.02	12.53	12.52	-0.01	9.22	9.20	-0.02
22989	--	--	9.25	9.22	--	--	-0.03	12.53	12.51	-0.02	9.21	9.19	-0.02
22889	--	--	9.24	9.22	--	--	-0.02	12.52	12.51	-0.01	9.21	9.19	-0.02
22794	--	--	9.23	9.20	--	--	-0.03	12.51	12.50	-0.01	9.20	9.18	-0.02
22688	--	--	9.22	9.19	--	--	-0.03	12.51	12.50	-0.01	9.19	9.17	-0.02
22598	--	--	9.21	9.19	--	--	-0.02	12.51	12.49	-0.02	9.19	9.17	-0.02
22540	9.10	9.10	9.21	9.19	0.00	0.11	-0.02	12.51	12.49	-0.02	9.18	9.16	-0.02
22334	--	--	9.20	9.18	--	--	-0.02	12.50	12.49	-0.01	9.17	9.15	-0.02
22271	--	--	9.20	9.17	--	--	-0.03	12.50	12.48	-0.02	9.17	9.15	-0.02
22128	--	--	9.19	9.17	--	--	-0.02	12.49	12.48	-0.01	9.17	9.15	-0.02
22039	--	--	9.19	9.17	--	--	-0.02	12.49	12.48	-0.01	9.17	9.15	-0.02
21923	--	--	9.19	9.17	--	--	-0.02	12.49	12.48	-0.01	9.16	9.15	-0.01
21843	--	--	9.18	9.16	--	--	-0.02	12.49	12.48	-0.01	9.16	9.14	-0.02
21358	--	--	9.17	9.15	--	--	-0.02	12.48	12.47	-0.01	9.15	9.13	-0.02
20793	--	--	9.16	9.14	--	--	-0.02	12.48	12.46	-0.02	9.14	9.12	-0.02
20544	9.04	9.04	9.15	9.13	0.00	0.11	-0.02	12.47	12.46	-0.01	9.13	9.12	-0.01
20492	--	--	9.15	9.13	--	--	-0.02	12.47	12.46	-0.01	9.13	9.11	-0.02
20428	--	--	0.00	0.00	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20418	--	--	9.10	9.08	--	--	-0.02	12.44	12.43	-0.01	9.09	9.08	-0.01
20207	9.02	9.02	9.09	9.07	0.00	0.07	-0.02	12.43	12.42	-0.01	9.08	9.07	-0.01
20090	--	--	9.08	9.07	--	--	-0.01	12.43	12.42	-0.01	9.07	9.06	-0.01
19990	--	--	9.08	9.06	--	--	-0.02	12.42	12.42	0.00	9.07	9.06	-0.01
19895	--	--	9.07	9.06	--	--	-0.01	12.42	12.42	0.00	9.07	9.06	-0.01
19795	--	--	9.07	9.06	--	--	-0.01	12.42	12.42	0.00	9.06	9.06	0.00
19721	--	--	9.07	9.06	--	--	-0.01	12.42	12.42	0.00	9.06	9.06	0.00
19584	--	--	9.07	9.06	--	--	-0.01	12.42	12.41	-0.01	9.06	9.05	-0.01
19488	--	--	9.06	9.06	--	--	0.00	12.42	12.41	-0.01	9.05	9.05	0.00

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19356	--	--	9.05	9.05	--	--	0.00	12.41	12.41	0.00	9.05	9.05	0.00
19188	--	--	9.05	9.04	--	--	-0.01	12.41	12.41	0.00	9.04	9.04	0.00
19077	--	--	9.04	9.04	--	--	0.00	12.40	12.41	0.00	9.04	9.04	0.00
18966	--	--	9.04	9.04	--	--	0.00	12.40	12.40	0.00	9.04	9.04	0.00
18876	--	--	9.04	9.04	--	--	0.00	12.40	12.40	0.00	9.04	9.04	0.00
18781	--	--	9.03	9.03	--	--	0.00	12.40	12.40	0.00	9.03	9.03	0.00
18670	--	--	9.02	9.02	--	--	0.00	12.39	12.39	0.00	9.02	9.02	0.00

Appendix L – No-Rise Evaluation

Attachment L.3

HEC-RAS Model Outputs

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HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W. S. Elev (ft)	Crit W. S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	339478	10-year	11060.00	1008.02	1024.910		1025.64	0.002852	6.85	1643.12	121.05	0.32
Mainstem	338369	10-year	11060.00	1005.35	1018.653		1020.36	0.009015	10.83	1144.39	127.35	0.57
Mainstem	337904	10-year	11060.00	1001.43	1014.199		1015.86	0.010294	10.83	1192.89	155.86	0.60
Mainstem	337482	10-year	11060.00	997.51	1009.060		1010.95	0.013129	11.14	1041.83	133.11	0.65
Mainstem	336700	10-year	11060.00	987.32	1001.478		1003.05	0.007890	10.24	1193.54	144.06	0.53
Mainstem	335935	10-year	11060.00	979.60	995.169		996.96	0.007895	11.07	1140.97	123.32	0.54
Mainstem	335127	10-year	11060.00	976.75	990.488		991.58	0.005294	8.50	1398.74	147.09	0.44
Mainstem	334335	10-year	11060.00	973.99	986.320		987.35	0.005378	8.22	1408.45	148.29	0.44
Mainstem	333485	10-year	11060.00	970.06	981.751		982.72	0.005437	8.06	1488.63	176.92	0.44
Mainstem	332814	10-year	11060.00	964.25	976.619		978.08	0.008926	10.11	1238.50	148.11	0.55
Mainstem	331901	10-year	11060.00	953.70	970.543		971.82	0.005371	9.18	1287.35	122.98	0.44
Mainstem	331251	10-year	11060.00	949.66	960.629	960.63	964.77	0.028597	16.58	715.97	95.44	0.97
Mainstem	330787	10-year	11060.00	936.35	952.475		954.49	0.008975	12.00	1116.50	123.95	0.57
Mainstem	330211	10-year	11060.00	928.46	949.341		950.71	0.004556	9.57	1262.32	97.44	0.41
Mainstem	329667	10-year	11060.00	928.53	946.779		948.08	0.005084	9.37	1290.88	107.07	0.43
Mainstem	328965	10-year	11060.00	927.65	942.491	938.39	943.96	0.006711	10.15	1293.03	155.46	0.50
Mainstem	328041	10-year	11060.00	921.69	933.570		935.80	0.011943	12.10	961.44	100.88	0.65
Mainstem	327027	10-year	11060.00	915.20	929.500		929.76	0.003160	6.86	1728.63	161.16	0.34
Mainstem	326288	10-year	11060.00	910.27	925.643		926.83	0.004947	8.89	1358.70	131.60	0.43
Mainstem	325755	10-year	11060.00	910.43	923.623		924.41	0.003791	7.19	1617.51	159.28	0.36
Mainstem	325206	10-year	11060.00	908.22	921.525		922.30	0.003880	7.31	1683.98	168.24	0.38
Mainstem	324789	10-year	11060.00	904.40	919.331		920.44	0.004929	8.75	1444.98	148.33	0.43
Mainstem	324519	10-year	11060.00	902.89	918.781		919.37	0.002478	6.31	1950.64	190.54	0.31
Mainstem	324255	10-year	11060.00	903.12	917.572		918.50	0.004148	7.88	1531.14	157.33	0.39
Mainstem	324060	10-year	11060.00	902.25	916.957		917.74	0.003345	7.20	1664.05	163.92	0.35
Mainstem	323706	10-year	11060.00	902.21	915.491		916.34	0.004861	7.96	1647.84	180.62	0.42
Mainstem	323226	10-year	11060.00	898.35	913.365		914.21	0.004033	7.90	1684.47	173.52	0.38
Mainstem	322877	10-year	11060.00	893.32	912.612		913.07	0.002237	5.65	2206.81	216.83	0.28
Mainstem	322692	10-year	11060.00	893.60	911.920		912.56	0.003397	6.69	1951.28	242.39	0.35
Mainstem	322539	10-year	11060.00	888.22	911.876	898.59	912.18	0.001097	4.54	2758.13	255.19	0.20
Mainstem	322360	10-year	11060.00	886.23	911.559	900.36	911.94	0.001529	5.15	2430.59	209.82	0.23
Mainstem	322323	10-year	11060.00	892.27	911.515	902.85	911.89	0.001543	5.08	2404.17	205.62	0.24
Mainstem	322106	10-year	11060.00	887.92	911.071	900.95	911.53	0.001590	5.51	2139.91	181.40	0.25
Mainstem	321990		Inl Struct									
Mainstem	321964	10-year	11060.00	879.22	893.856		894.53	0.003052	6.60	1723.62	153.54	0.33
Mainstem	321383	10-year	11060.00	874.07	890.895		892.22	0.005069	9.52	1315.15	119.08	0.44
Mainstem	320913	10-year	11060.00	871.33	889.111		890.12	0.003600	8.26	1466.48	116.71	0.37
Mainstem	320401	10-year	11060.00	869.76	883.535		886.59	0.015010	14.35	846.46	86.40	0.72
Mainstem	319910	10-year	11060.00	865.30	882.463		883.23	0.002803	7.21	1691.55	139.59	0.32
Mainstem	319419	10-year	11060.00	865.84	881.015		881.78	0.003085	7.10	1637.63	137.55	0.34
Mainstem	318690	10-year	11060.00	865.63	878.827		879.43	0.003257	6.37	1893.31	206.63	0.34
Mainstem	318664	10-year	11060.00	867.31	878.356		879.29	0.005721	7.88	1516.09	188.21	0.44
Mainstem	318109	10-year	11060.00	863.84	874.218		875.43	0.008540	9.24	1414.59	219.56	0.54
Mainstem	316832	10-year	11060.00	855.39	867.141		867.78	0.004247	6.45	1743.44	205.57	0.38
Mainstem	315623	10-year	11060.00	851.29	858.760	857.12	859.78	0.011804	8.51	1397.67	253.21	0.60
Mainstem	314635	10-year	11060.00	838.67	851.046		852.01	0.005590	8.20	1516.99	173.54	0.44
Mainstem	313801	10-year	11060.00	834.96	846.840		847.67	0.004736	7.38	1556.13	169.02	0.41
Mainstem	312903	10-year	11060.00	830.55	839.724		841.23	0.011922	9.97	1163.48	162.99	0.62
Mainstem	311853	10-year	11060.00	808.34	835.746		836.36	0.002245	6.46	1881.68	146.01	0.28
Mainstem	311340	10-year	11060.00	819.10	833.842		834.75	0.004592	7.67	1474.32	141.22	0.40
Mainstem	310533	10-year	11060.00	821.22	830.268	826.82	830.81	0.004834	6.16	2144.21	526.70	0.39
Mainstem	309830	10-year	11060.00	818.09	826.633		827.23	0.005418	6.26	1837.07	393.74	0.41
Mainstem	309107	10-year	11060.00	811.55	822.524	820.04	823.16	0.006045	7.47	1887.77	769.12	0.45
Mainstem	308368	10-year	11060.00	810.28	817.637	815.62	818.33	0.008772	7.50	1786.16	516.15	0.51
Mainstem	307956	10-year	11060.00	806.24	816.671		816.89	0.001717	3.96	2989.27	412.25	0.24
Mainstem	307708	10-year	11060.00	804.90	815.384		816.17	0.005171	7.17	1605.04	197.81	0.42
Mainstem	307660	10-year	11060.00	804.98	814.967		815.89	0.006719	8.00	1532.90	205.14	0.47
Mainstem	307402	10-year	11060.00	803.24	812.364		813.64	0.011022	9.60	1383.45	244.65	0.60
Mainstem	306984	10-year	11060.00	797.51	809.789		810.65	0.004743	7.73	1682.21	243.54	0.41
Mainstem	306816	10-year	11060.00	797.67	808.030		809.48	0.009726	9.90	1229.20	172.89	0.57
Mainstem	306324	10-year	11060.00	788.89	805.783		806.55	0.003560	7.17	1680.06	172.11	0.36
Mainstem	305628	10-year	11060.00	790.83	803.413		804.05	0.003475	6.44	1741.56	172.99	0.35
Mainstem	305538	10-year	11060.00	791.32	799.556	799.56	803.08	0.031006	15.23	760.10	113.46	0.99
Mainstem	304925	10-year	11060.00	783.64	795.339		796.13	0.004437	7.21	1620.35	178.57	0.39
Mainstem	304366	10-year	11060.00	782.00	792.935		793.68	0.004332	7.02	1674.10	187.28	0.39
Mainstem	303706	10-year	11060.00	776.97	790.563		791.23	0.003120	6.61	1737.55	168.05	0.34
Mainstem	303637	10-year	11060.00	777.26	788.979		790.77	0.010352	11.07	1117.12	135.63	0.60
Mainstem	303405	10-year	11060.00	775.70	789.576		789.78	0.000927	3.70	3204.24	293.77	0.19
Mainstem	302639	10-year	11060.00	773.65	788.033		788.64	0.002569	6.32	1882.03	183.21	0.31
Mainstem	301942	10-year	11060.00	772.59	781.425	780.69	784.34	0.023670	13.73	821.44	113.77	0.86
Mainstem	301509	10-year	11060.00	769.66	780.998		781.33	0.002187	4.87	2607.11	349.43	0.27
Mainstem	301066	10-year	11060.00	769.67	779.401		779.98	0.004169	6.32	1939.54	255.92	0.37
Mainstem	300464	10-year	11060.00	765.34	777.682	773.71	778.01	0.002504	5.52	2940.68	540.61	0.30
Mainstem	299856	10-year	11060.00	762.99	774.561		775.69	0.006076	8.66	1378.96	162.86	0.46
Mainstem	298758	10-year	11060.00	757.10	767.717		768.71	0.006563	8.18	1458.14	184.62	0.47

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	297428	10-year	11060.00	746.98	757.735		758.97	0.008195	9.18	1357.06	196.29	0.53
Mainstem	296831	10-year	11060.00	743.96	752.578		753.73	0.009352	8.74	1345.72	199.07	0.55
Mainstem	296245	10-year	11060.00	738.96	748.404	745.24	749.16	0.006362	6.99	1619.04	237.93	0.45
Mainstem	295786	10-year	11060.00	731.50	741.358	741.07	744.01	0.022184	14.07	1023.63	206.57	0.85
Mainstem	295136	10-year	11060.00	723.88	735.689		736.67	0.006113	8.07	1451.41	173.75	0.46
Mainstem	294624	10-year	11060.00	720.59	729.073	728.59	731.29	0.021095	12.39	1030.75	202.05	0.81
Mainstem	293890	10-year	11060.00	710.60	721.401		722.46	0.007238	8.30	1375.36	176.25	0.49
Mainstem	293679	10-year	11060.00	709.17	721.350		721.62	0.001526	4.20	2670.74	273.84	0.23
Mainstem	293161	10-year	11060.00	709.91	717.969		719.65	0.015107	10.45	1077.67	156.37	0.68
Mainstem	292459	10-year	11060.00	700.61	710.467	707.65	711.64	0.008706	8.74	1307.04	174.28	0.53
Mainstem	291699	10-year	11060.00	688.49	698.947	698.57	701.57	0.021453	13.38	955.51	184.39	0.83
Mainstem	290949	10-year	11060.00	680.04	692.971		694.00	0.005321	8.21	1403.52	145.73	0.43
Mainstem	290426	10-year	11060.00	679.06	687.178		689.21	0.018185	11.53	992.47	148.93	0.75
Mainstem	289597	10-year	11060.00	665.63	674.402	672.77	675.99	0.013744	10.38	1153.68	173.71	0.66
Mainstem	288827	10-year	11060.00	649.56	658.319	658.32	661.16	0.028088	14.05	909.52	180.39	0.93
Mainstem	287887	10-year	11060.00	641.14	653.272		653.81	0.003092	6.00	1981.65	228.73	0.33
Mainstem	287000	10-year	11060.00	636.25	648.019		649.48	0.008327	9.90	1241.15	164.82	0.54
Mainstem	286229	10-year	11060.00	629.18	636.143	635.91	638.62	0.028037	12.78	911.45	170.69	0.91
Mainstem	285532	10-year	11060.00	615.47	627.618		628.98	0.007790	9.42	1208.88	130.81	0.52
Mainstem	284719	10-year	11060.00	609.66	621.595	618.08	622.87	0.007255	9.28	1325.51	163.30	0.50
Mainstem	284053	10-year	11060.00	602.27	611.004	611.00	614.08	0.029127	14.42	842.74	147.83	0.95
Mainstem	283589	10-year	11060.00	597.58	607.634		608.30	0.005267	6.76	1788.25	254.07	0.41
Mainstem	282818	10-year	11060.00	591.35	600.803		602.30	0.012297	9.95	1171.18	171.99	0.63
Mainstem	282353	10-year	11060.00	586.31	594.470		596.01	0.014921	10.16	1162.22	190.06	0.68
Mainstem	281593	10-year	11060.00	569.44	580.495	579.30	583.27	0.018485	13.52	869.43	111.71	0.77
Mainstem	280949	10-year	11060.00	560.42	569.607		571.71	0.017068	11.68	974.72	138.59	0.74
Mainstem	280125	10-year	11060.00	552.35	565.203		565.88	0.003422	6.61	1702.23	162.78	0.35
Mainstem	279386	10-year	11060.00	549.44	558.923	557.45	561.07	0.015509	11.98	1008.81	148.59	0.72
Mainstem	278583	10-year	11060.00	540.98	550.902		552.09	0.007978	8.81	1306.51	160.17	0.52
Mainstem	278161	10-year	11060.00	536.98	547.118		548.49	0.008923	9.56	1242.92	160.30	0.55
Mainstem	277707	10-year	11060.00	530.49	541.260		543.40	0.014026	12.26	1051.24	147.66	0.69
Mainstem	277105	10-year	11060.00	524.29	536.023	532.95	537.17	0.007271	9.14	1429.65	178.91	0.50
Mainstem	276619	10-year	11060.00	518.92	528.042	528.04	530.92	0.026080	14.28	913.55	166.51	0.90
Mainstem	275943	10-year	11060.00	510.39	524.617		525.13	0.002278	5.76	1974.24	176.42	0.29
Mainstem	275458	10-year	11060.00	510.10	518.956	518.75	522.21	0.026869	14.78	813.10	124.21	0.93
Mainstem	274565	10-year	11060.00	498.10	510.567		511.62	0.006058	8.34	1414.84	167.03	0.46
Mainstem	273800	10-year	11060.00	494.39	504.414		505.80	0.009706	9.53	1202.39	151.34	0.57
Mainstem	272923	10-year	11060.00	485.76	497.648		498.79	0.006547	8.63	1320.86	143.85	0.48
Mainstem	272342	10-year	11060.00	482.77	494.312		495.29	0.005480	7.99	1431.89	150.08	0.44
Mainstem	271909	10-year	11060.00	477.04	487.262	487.26	490.42	0.029091	14.70	835.23	141.36	0.95
Mainstem	271535	10-year	11060.00	471.21	482.735		484.13	0.008735	9.65	1245.25	160.74	0.55
Mainstem	271038	10-year	11060.00	468.32	478.814		479.80	0.008162	8.01	1401.13	189.57	0.51
Mainstem	270579	10-year	11060.00	465.53	474.509		475.71	0.009860	8.89	1290.22	174.48	0.56
Mainstem	270114	10-year	11060.00	458.56	470.121		471.48	0.008332	9.45	1222.57	144.20	0.53
Mainstem	269729	10-year	11060.00	456.27	467.171	463.75	468.38	0.007493	8.95	1300.85	151.08	0.51
Mainstem	269264	10-year	11060.00	453.51	459.947	459.56	462.23	0.027567	12.18	930.44	173.10	0.89
Mainstem	268752	10-year	11060.00	442.46	457.345	452.57	457.93	0.003338	7.03	1876.87	210.57	0.34
Mainstem	268388	10-year	11060.00	433.14	455.786		456.78	0.002708	8.11	1463.67	92.01	0.33
Mainstem	268182	10-year	11060.00	432.18	455.701		456.24	0.001498	6.13	2074.67	139.12	0.24
Mainstem	267854	10-year	11060.00	431.80	447.971	447.97	453.46	0.026440	19.28	641.65	65.99	0.95
Mainstem	267516	10-year	11060.00	431.01	442.403		443.84	0.009132	9.68	1182.05	138.63	0.56
Mainstem	267115	10-year	11060.00	427.61	438.942	435.64	440.36	0.008378	9.65	1199.27	137.02	0.54
Mainstem	266561	10-year	11060.00	422.26	432.160		434.23	0.014059	11.69	1001.42	128.87	0.69
Mainstem	266133	10-year	11060.00	413.45	429.881		430.87	0.003819	8.09	1456.65	121.70	0.38
Mainstem	265668	10-year	11060.00	409.35	425.262		427.84	0.011756	12.94	881.06	75.64	0.63
Mainstem	265362	10-year	11060.00	407.68	423.879		425.17	0.005022	9.22	1265.05	105.27	0.43
Mainstem	265014	10-year	11060.00	408.22	419.734	417.92	422.22	0.015663	12.71	894.96	102.09	0.72
Mainstem	264370	10-year	11060.00	402.08	413.824		415.14	0.007439	9.25	1222.69	128.12	0.50
Mainstem	263657	10-year	11060.00	396.62	409.328		410.63	0.005501	9.21	1250.78	124.63	0.49
Mainstem	262743	10-year	11060.00	393.90	405.030		405.95	0.004545	7.75	1493.58	170.36	0.44
Mainstem	262221	10-year	11060.00	390.55	400.549		402.35	0.010980	11.27	1204.42	213.95	0.67
Mainstem	261645	10-year	11060.00	385.29	398.660		399.30	0.002575	6.46	1783.74	173.16	0.34
Mainstem	261318	10-year	11060.00	386.42	397.085		398.10	0.005344	8.22	1446.17	175.34	0.47
Mainstem	260996	10-year	11060.00	384.64	392.999	391.95	395.18	0.016147	11.88	948.67	144.61	0.78
Mainstem	260478	10-year	11060.00	379.66	388.171		389.23	0.007864	8.60	1486.16	250.22	0.55
Mainstem	260040	10-year	11060.00	375.12	386.124		386.80	0.003785	6.70	1758.63	222.43	0.40
Mainstem	259570	10-year	11060.00	371.15	384.408		385.09	0.003451	6.83	1819.69	237.27	0.38
Mainstem	259259	10-year	11060.00	371.04	382.807		383.77	0.005270	8.12	1530.58	202.51	0.47
Mainstem	258884	10-year	11060.00	367.97	381.095		381.90	0.004481	7.84	1835.31	265.17	0.43
Mainstem	258224	10-year	11060.00	363.49	376.409	374.46	377.89	0.008404	10.56	1388.82	388.05	0.59
Mainstem	257574	10-year	11060.00	360.44	373.109		373.89	0.004271	7.16	1613.19	196.17	0.42
Mainstem	256824	10-year	11060.00	356.90	366.879	365.88	368.70	0.012433	11.38	1191.11	217.87	0.70
Mainstem	256312	10-year	11060.00	353.50	362.474		363.66	0.007447	8.93	1346.73	189.99	0.55
Mainstem	255895	10-year	11060.00	348.37	360.144		361.11	0.004935	8.09	1548.55	210.72	0.45
Mainstem	255272	10-year	11060.00	345.52	357.465	354.30	358.16	0.004331	7.61	1976.45	278.46	0.43

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	254850	10-year	11060.00	341.44	354.786		356.05	0.005712	9.17	1380.68	228.85	0.50
Mainstem	254464	10-year	11060.00	341.93	353.179		354.06	0.004214	7.59	1562.52	209.44	0.42
Mainstem	253778	10-year	11060.00	338.75	348.255		349.74	0.009933	10.23	1277.50	211.45	0.63
Mainstem	253398	10-year	11060.00	336.30	345.828		346.72	0.005848	7.62	1483.49	205.43	0.48
Mainstem	253039	10-year	11060.00	333.97	342.637		343.93	0.010430	9.29	1277.44	211.45	0.63
Mainstem	252732	10-year	11060.00	328.80	340.595		341.68	0.005154	8.50	1393.21	160.82	0.47
Mainstem	252004	10-year	11060.00	322.69	332.583	331.86	335.20	0.017727	13.10	894.66	140.27	0.83
Mainstem	251497	10-year	11060.00	320.14	328.886		329.77	0.006122	7.60	1509.04	221.74	0.49
Mainstem	251133	10-year	11060.00	317.25	325.429		326.82	0.010524	9.54	1212.78	200.99	0.63
Mainstem	250726	10-year	11060.00	313.97	321.570		322.70	0.009497	8.57	1336.39	226.44	0.59
Mainstem	250261	10-year	11060.00	307.64	317.637		318.85	0.007305	8.93	1290.67	168.73	0.54
Mainstem	249607	10-year	11060.00	304.74	314.312		315.03	0.004428	6.91	1706.91	225.23	0.42
Mainstem	248873	10-year	11060.00	297.75	310.580		311.64	0.004712	8.31	1384.33	143.46	0.45
Mainstem	248382	10-year	11060.00	297.88	307.597		308.81	0.007271	9.09	1354.14	185.29	0.54
Mainstem	247870	10-year	11060.00	294.56	304.754		305.62	0.005042	8.02	1787.25	303.03	0.46
Mainstem	247099	10-year	11060.00	285.52	297.804	296.25	299.85	0.011728	11.77	1051.21	146.68	0.68
Mainstem	246402	10-year	11060.00	282.89	292.913		293.97	0.005772	8.42	1432.31	182.93	0.49
Mainstem	245573	10-year	11060.00	275.96	288.758		289.75	0.004502	8.28	1519.59	176.55	0.44
Mainstem	244897	10-year	11060.00	275.58	284.474		285.74	0.008099	9.27	1321.73	191.32	0.57
Mainstem	244163	10-year	11060.00	269.05	280.326		281.23	0.004620	7.75	1509.42	175.23	0.44
Mainstem	243661	10-year	11060.00	266.28	276.408		278.01	0.009091	10.27	1135.71	143.85	0.61
Mainstem	242875	10-year	11060.00	260.71	272.781		273.56	0.003521	7.11	1617.79	173.42	0.39
Mainstem	242072	10-year	11060.00	256.43	269.537		270.50	0.004044	8.03	1511.52	173.44	0.42
Mainstem	241597	10-year	11060.00	256.23	266.861		268.09	0.006409	9.12	1343.36	169.47	0.52
Mainstem	240963	10-year	11060.00	253.60	263.486		264.39	0.005068	7.65	1466.64	174.02	0.45
Mainstem	240108	10-year	11060.00	249.71	258.346		259.29	0.007125	7.89	1487.77	238.27	0.52
Mainstem	239649	10-year	11060.00	246.12	256.196		256.80	0.003986	6.40	1934.49	312.77	0.40
Mainstem	239010	10-year	11060.00	243.44	253.289		254.05	0.004597	7.16	1670.12	229.59	0.43
Mainstem	238123	10-year	11060.00	240.02	249.771		250.44	0.003583	6.67	1752.88	207.85	0.39
Mainstem	237109	10-year	11060.00	232.64	244.892		246.00	0.005427	8.97	1526.58	205.32	0.49
Mainstem	236227	10-year	11060.00	228.82	240.156	236.44	241.26	0.005359	8.48	1366.19	212.52	0.48
Mainstem	235129	10-year	11060.00	224.81	233.766		234.72	0.006578	7.92	1490.26	234.38	0.51
Mainstem	234105	10-year	11060.00	220.18	230.080	226.15	230.41	0.002690	5.33	2861.82	478.04	0.33
Mainstem	232663	10-year	11060.00	217.31	225.877	223.81	226.21	0.003663	5.80	3639.74	1342.15	0.38
Mainstem	231739	10-year	11060.00	211.41	222.835	220.72	223.18	0.003095	6.05	3152.76	841.95	0.35
Mainstem	230303	10-year	11060.00	205.60	217.849	216.38	218.41	0.004140	7.18	2915.35	1232.16	0.41
Mainstem	229141	10-year	11060.00	201.84	213.704	209.41	214.30	0.003113	6.65	2176.65	990.13	0.37
Mainstem	227869	10-year	11060.00	198.88	209.074	205.93	209.74	0.004141	7.08	2046.50	912.38	0.41
Mainstem	226549	10-year	11060.00	194.48	205.188	200.65	205.59	0.002348	5.41	2679.11	655.89	0.31
Mainstem	225329	10-year	11060.00	181.71	202.089	195.38	202.69	0.002376	6.46	1997.55	439.53	0.32
Mainstem	224659	10-year	11060.00	188.52	200.432	195.57	200.96	0.002722	5.90	1933.89	599.85	0.34
Mainstem	224622		Bridge									
Mainstem	224574	10-year	11060.00	188.52	200.180	195.59	200.73	0.002919	6.01	1918.22	772.43	0.35
Mainstem	223545	10-year	11060.00	186.59	197.156	193.38	197.66	0.003005	6.13	2373.90	1367.86	0.35
Mainstem	222367	10-year	11060.00	181.37	192.366	188.35	193.31	0.004615	7.91	1515.91	191.91	0.44
Mainstem	221290	10-year	11060.00	177.50	188.007	183.89	188.72	0.003850	6.82	1740.85	241.80	0.40
Mainstem	219891	10-year	11060.00	168.42	181.059		182.24	0.005608	8.90	1411.12	178.00	0.49
Mainstem	218555	10-year	11060.00	163.48	176.263		176.86	0.002860	6.30	1972.10	343.73	0.34
Mainstem	217599	10-year	11060.00	161.68	172.917	168.73	173.62	0.004047	6.84	1712.62	213.96	0.40
Mainstem	217557		Bridge									
Mainstem	217504	10-year	11060.00	161.36	172.317	168.65	173.07	0.004808	7.06	1653.37	232.24	0.42
Mainstem	216549	10-year	11060.00	157.38	169.342	164.68	169.69	0.002554	5.68	2606.04	414.04	0.31
Mainstem	215223	10-year	11060.00	152.39	164.587	161.08	165.27	0.004589	7.33	2004.35	641.28	0.41
Mainstem	213972	10-year	11060.00	147.03	160.159	155.20	160.71	0.002930	6.19	2088.63	991.13	0.34
Mainstem	213418	10-year	11250.00	145.69	158.018	154.57	158.70	0.004428	7.34	2298.59	860.07	0.41
Mainstem	212061	10-year	11250.00	141.43	153.030	148.57	153.57	0.003221	5.94	2076.05	673.76	0.35
Mainstem	211121	10-year	11250.00	137.00	149.114	144.72	149.98	0.004518	7.77	1799.76	710.45	0.42
Mainstem	210762	10-year	11250.00	136.98	147.529	144.25	148.23	0.004887	7.26	2087.33	578.46	0.43
Mainstem	209679	10-year	11250.00	134.77	144.587	142.01	144.76	0.002149	4.45	4623.71	1904.06	0.28
Mainstem	208391	10-year	10835.00	132.45	139.735	138.31	140.08	0.007236	6.33	2549.72	1729.37	0.49
Mainstem	207092	10-year	10835.00	127.81	134.896	133.50	135.01	0.004369	4.47	4467.08	2688.46	0.37
Mainstem	205667	10-year	10835.00	127.16	134.060	132.00	134.09	0.000891	1.96	8454.24	3045.31	0.17
Mainstem	203988	10-year	10835.00	121.47	131.121	129.66	131.70	0.005726	7.45	2452.42	1438.63	0.46
Mainstem	202884	10-year	10835.00	116.15	127.566	124.13	127.79	0.002209	4.39	4151.24	2067.83	0.29
Mainstem	201332	10-year	10835.00	112.29	122.931	120.99	123.28	0.004218	6.03	2653.05	1802.70	0.40
Mainstem	200508	10-year	10835.00	111.53	121.118	118.56	121.25	0.002204	3.99	4047.83	1815.72	0.28
Mainstem	198924	10-year	11250.00	107.24	118.728	115.17	118.90	0.001404	4.23	4647.10	1340.09	0.24
Mainstem	198063	10-year	11250.00	100.65	116.393	113.13	117.04	0.004103	7.50	2760.47	879.43	0.40
Mainstem	196976	10-year	11250.00	104.00	115.022	110.72	115.11	0.000853	3.27	6821.13	1717.91	0.18
Mainstem	196242	10-year	11250.00	95.52	113.617	108.70	114.08	0.002570	6.21	2863.67	1408.21	0.32
Mainstem	195101	10-year	11250.00	100.46	110.715	108.55	111.02	0.002787	5.46	3592.61	1655.42	0.33
Mainstem	193966	10-year	11250.00	95.52	108.733	104.91	108.84	0.001319	2.87	5181.52	2312.66	0.20
Mainstem	192952	10-year	11250.00	97.96	107.541	104.63	107.64	0.001097	3.49	6176.25	2879.53	0.21
Mainstem	192134	10-year	11250.00	89.06	106.642	102.27	106.81	0.001250	4.22	4869.07	2631.77	0.22
Mainstem	191358	10-year	11250.00	93.92	104.655	100.39	105.26	0.003395	6.47	2068.53	1830.18	0.37



HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W. S. Elev (ft)	Crit W. S. (ft)	E. G. Elev (ft)	E. G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	190143	10-year	11250.00	89.64	101.732	98.12	102.04	0.002007	5.45	3197.96	1665.10	0.29
Mainstem	188966	10-year	11250.00	86.96	99.375	95.45	99.67	0.002073	5.48	3777.61	1668.54	0.32
Mainstem	188448	10-year	11250.00	86.65	98.403	94.39	98.57	0.001333	4.36	4361.30	1949.09	0.25
Mainstem	188031	10-year	11250.00	82.88	97.619	95.00	97.85	0.001645	5.05	4435.94	2348.28	0.29
Mainstem	186759	10-year	11250.00	83.18	95.650	90.54	96.00	0.001567	5.35	3469.96	2487.93	0.29
Mainstem	185302	10-year	11250.00	80.45	93.283	89.68	93.57	0.001750	5.60	3661.09	1878.68	0.30
Mainstem	184214	10-year	11250.00	80.91	91.489	87.50	91.76	0.001578	4.98	3633.84	910.32	0.28
Mainstem	182831	10-year	11250.00	78.48	89.193	85.62	89.47	0.001782	5.18	3686.48	1464.41	0.30
Mainstem	182783		Bridge									
Mainstem	182730	10-year	11250.00	78.48	88.758	85.93	89.28	0.003059	6.53	2479.28	858.93	0.39
Mainstem	181817	10-year	11250.00	73.04	87.610	83.27	87.74	0.000907	3.94	5687.92	2929.41	0.22
Mainstem	181104	10-year	11250.00	75.65	84.142	84.14	85.92	0.015414	10.94	1259.99	2630.51	0.81
Mainstem	180264	10-year	11250.00	73.64	83.723	83.44	86.16	0.018484	12.55	928.79	2198.91	0.89
Mainstem	178865	10-year	11250.00	72.01	82.747	79.80	82.81	0.000612	2.85	7009.71	2456.50	0.17
Mainstem	177545	10-year	11250.00	68.87	82.528	78.22	82.54	0.000082	1.13	17780.14	3104.57	0.06
Mainstem	176268	10-year	11250.00	66.87	81.571	75.19	82.19	0.001898	6.47	1914.56	228.97	0.32
Mainstem	176225		Bridge									
Mainstem	176178	10-year	11250.00	66.87	81.376	75.34	82.00	0.002002	6.49	1929.12	969.33	0.33
Mainstem	176056	10-year	11250.00	66.87	80.895		81.70	0.002575	7.20	1780.06	1006.31	0.37
Mainstem	175940	10-year	11230.00	67.00	81.092	73.40	81.38	0.000884	4.37	2712.74	284.29	0.22
Mainstem	175919		Bridge									
Mainstem	175893	10-year	11230.00	65.37	80.968	73.19	81.31	0.001007	4.74	2575.60	421.32	0.24
Mainstem	175708	10-year	11230.00	66.02	80.596	73.51	81.07	0.001461	5.67	2167.78	204.69	0.28
Mainstem	175660		Bridge									
Mainstem	175555	10-year	11230.00	67.32	80.266	74.26	80.78	0.001764	5.81	2068.22	219.23	0.31
Mainstem	174462	10-year	11230.00	67.00	78.340	74.30	78.67	0.002003	5.35	3921.72	1551.46	0.31
Mainstem	173353	10-year	11230.00	65.06	76.350	73.15	76.59	0.001702	5.01	4746.38	1421.69	0.29
Mainstem	172540	10-year	11230.00	57.34	75.427	70.83	75.62	0.001313	4.47	5452.93	1816.32	0.25
Mainstem	171743	10-year	11230.00	64.05	74.996	68.65	75.06	0.000347	2.52	7983.73	1914.58	0.14
Mainstem	171209	10-year	11230.00	53.16	74.667	64.01	74.85	0.000496	3.92	5580.95	1448.53	0.17
Mainstem	170877	10-year	11230.00	49.99	74.498	62.42	74.69	0.000476	3.92	3960.61	1107.45	0.16
Mainstem	170697	10-year	11230.00	54.70	74.271	63.34	74.58	0.000635	4.57	3043.87	1098.29	0.20
Mainstem	170280	10-year	11230.00	51.75	74.089	62.14	74.31	0.000559	4.33	5773.08	1257.00	0.18
Mainstem	169351	10-year	11230.00	52.66	73.915	62.08	73.98	0.000201	2.60	10829.10	1790.89	0.11
Mainstem	168448	10-year	11230.00	46.54	73.477	60.70	73.69	0.000515	4.19	5576.55	1027.07	0.17
Mainstem	167556	10-year	11230.00	51.17	73.006	61.26	73.24	0.000501	4.07	3969.09	614.70	0.17
Mainstem	166774	10-year	11230.00	51.93	72.478		72.78	0.000648	4.49	2912.50	337.61	0.19
Mainstem	166008	10-year	11230.00	53.48	71.950	61.48	72.27	0.000694	4.61	2896.64	348.00	0.20
Mainstem	165195	10-year	11230.00	50.67	71.108		71.56	0.001067	5.62	2634.69	329.90	0.24
Mainstem	165137	10-year	11230.00	52.01	71.096		71.49	0.000869	5.15	2707.92	350.98	0.22
Mainstem	164150	10-year	11230.00	48.79	70.313	58.46	70.71	0.000720	5.06	2242.69	238.59	0.21
Mainstem	164108		Bridge									
Mainstem	164060	10-year	11230.00	48.79	70.098	58.40	70.47	0.000669	4.91	2286.17	178.51	0.20
Mainstem	163506	10-year	11230.00	53.45	69.495	61.05	69.97	0.001250	5.66	2264.43	218.54	0.26
Mainstem	162645	10-year	11230.00	50.09	68.830	60.72	69.08	0.000762	4.52	3491.20	532.23	0.21
Mainstem	161505	10-year	11230.00	45.86	67.802	57.66	68.15	0.000878	5.19	3877.97	631.13	0.22
Mainstem	160391	10-year	11230.00	44.32	66.422	56.17	66.96	0.001267	6.07	2110.80	201.22	0.25
Mainstem	159509	10-year	11230.00	51.51	65.618	57.50	65.95	0.000928	4.63	2537.19	225.20	0.23
Mainstem	158822	10-year	11230.00	48.13	65.274	55.94	65.44	0.000496	3.48	4291.44	492.61	0.17
Mainstem	158078	10-year	11230.00	41.74	64.330	53.50	64.87	0.001153	6.02	2158.91	189.21	0.25
Mainstem	157777	10-year	11230.00	49.91	63.973	56.86	64.48	0.001396	5.90	3041.25	584.17	0.29
Mainstem	157576	10-year	11230.00	49.71	63.693	57.34	64.18	0.001512	5.95	2509.10	513.71	0.30
Mainstem	157386	10-year	11230.00	50.16	63.339	57.22	63.87	0.001656	6.19	2166.59	244.35	0.31
Mainstem	157180	10-year	11230.00	46.75	63.018	54.77	63.57	0.001270	6.06	2384.59	493.93	0.28
Mainstem	156953	10-year	11230.00	43.06	62.778	52.99	63.30	0.001043	5.91	2624.43	669.84	0.26
Mainstem	156895	10-year	11230.00	41.91	62.765	52.25	63.23	0.000977	5.58	2429.32	322.33	0.24
Mainstem	156879		Bridge									
Mainstem	156869	10-year	11230.00	41.91	62.713	52.27	63.14	0.000915	5.34	2515.89	325.53	0.23
Mainstem	156768	10-year	11230.00	41.40	62.503	52.74	63.03	0.001074	6.03	2837.59	559.94	0.26
Mainstem	156610	10-year	11230.00	37.02	62.432	50.90	62.85	0.000791	5.41	3149.27	515.11	0.22
Mainstem	156362	10-year	11230.00	45.47	61.960	54.18	62.57	0.001453	6.38	2252.81	453.40	0.30
Mainstem	156161	10-year	11230.00	45.41	61.764	53.50	62.28	0.001212	5.81	2343.69	408.25	0.27
Mainstem	155992	10-year	11230.00	45.99	61.570	53.38	62.07	0.001189	5.75	2205.68	218.97	0.27
Mainstem	155771	10-year	11230.00	46.02	61.271	53.59	61.80	0.001308	5.90	2103.61	208.20	0.28
Mainstem	155570	10-year	11230.00	46.20	61.071	53.34	61.53	0.001176	5.59	2402.40	1401.69	0.27
Mainstem	155390	10-year	11230.00	43.58	60.834	52.76	61.32	0.001173	5.88	2531.92	1363.70	0.27
Mainstem	155184	10-year	11230.00	43.89	60.646	52.07	61.07	0.000999	5.64	2758.78	1463.40	0.25
Mainstem	154947	10-year	11230.00	39.79	60.460	49.93	60.86	0.000788	5.29	3065.49	1384.05	0.22
Mainstem	154746	10-year	11230.00	41.84	60.438	49.42	60.69	0.000505	4.14	3651.91	1446.84	0.18
Mainstem	154577	10-year	11230.00	41.92	60.276	50.15	60.58	0.000667	4.68	3503.26	1288.67	0.20
Mainstem	154350	10-year	11230.00	40.01	60.167	50.82	60.42	0.000641	4.43	4196.59	1438.19	0.20
Mainstem	154155	10-year	11230.00	39.19	59.933	50.38	60.27	0.000798	5.27	3826.59	1542.44	0.22
Mainstem	153954	10-year	11230.00	42.67	59.853	50.93	60.09	0.000655	4.44	4192.31	1523.03	0.20
Mainstem	153743	10-year	11230.00	42.59	59.640	50.74	59.94	0.000765	4.83	3623.63	1478.09	0.22
Mainstem	153548	10-year	11230.00	43.96	59.531	50.26	59.79	0.000643	4.37	4051.32	1448.62	0.20

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W. S. Elev (ft)	Crit W. S. (ft)	E. G. Elev (ft)	E. G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	153347	10-year	11230.00	41.96	59.245	49.70	59.63	0.000849	5.28	3752.06	590.51	0.23
Mainstem	153136	10-year	11230.00	36.92	59.055	47.88	59.46	0.000772	5.42	3871.56	569.83	0.22
Mainstem	152972	10-year	11230.00	32.11	58.923	46.86	59.34	0.000761	5.44	3496.17	397.06	0.22
Mainstem	152740	10-year	11230.00	40.47	58.746	48.80	59.15	0.000847	5.40	3626.02	451.48	0.23
Mainstem	152587	10-year	11230.00	41.27	58.687	48.63	59.00	0.000672	4.65	2980.35	434.08	0.21
Mainstem	152328	10-year	11230.00	38.77	58.349	48.10	58.79	0.000886	5.72	3162.27	349.97	0.24
Mainstem	152117	10-year	11230.00	38.21	58.314	48.06	58.58	0.000649	4.79	4534.04	383.15	0.20
Mainstem	151927	10-year	11230.00	36.91	58.170	48.13	58.45	0.000677	4.99	4606.59	409.23	0.21
Mainstem	151726	10-year	11230.00	37.04	58.086	47.91	58.31	0.000549	4.50	5308.47	506.99	0.19
Mainstem	151531	10-year	11230.00	37.91	58.048	47.21	58.20	0.000392	3.79	6796.12	550.32	0.16
Mainstem	151351	10-year	11230.00	39.90	57.984	47.31	58.12	0.000396	3.69	6735.71	553.97	0.16
Mainstem	151108	10-year	11230.00	37.92	57.738	47.50	58.00	0.000587	4.64	4869.52	743.39	0.19
Mainstem	150913	10-year	11230.00	37.45	57.400	46.69	57.84	0.000849	5.55	2691.54	566.66	0.23
Mainstem	150718	10-year	11230.00	36.75	57.275	46.56	57.67	0.000780	5.38	3225.00	503.16	0.22
Mainstem	150533	10-year	11230.00	36.08	57.133	46.35	57.52	0.000789	5.40	3699.76	540.13	0.22
Mainstem	150337	10-year	11230.00	36.43	56.872	46.34	57.35	0.000914	5.76	3220.76	895.47	0.24
Mainstem	150116	10-year	11230.00	38.91	56.740	46.86	57.13	0.000812	5.12	2590.49	497.97	0.23
Mainstem	149931	10-year	11230.00	36.59	56.516	45.99	56.97	0.000853	5.52	2349.14	520.89	0.23
Mainstem	149714	10-year	11230.00	37.99	56.405	45.39	56.78	0.000701	4.98	2575.67	604.68	0.21
Mainstem	149487	10-year	11230.00	39.95	56.289	46.13	56.61	0.000669	4.63	3039.01	398.45	0.21
Mainstem	149318	10-year	11230.00	37.91	56.099	45.80	56.48	0.000759	5.05	2685.92	375.71	0.22
Mainstem	149118	10-year	11230.00	35.55	55.911	45.45	56.33	0.000804	5.25	2580.83	375.33	0.23
Mainstem	148917	10-year	11230.00	36.41	55.817	44.77	56.16	0.000646	4.79	2585.13	201.58	0.20
Mainstem	148716	10-year	11230.00	35.37	55.647	44.29	56.02	0.000694	5.15	2608.62	204.72	0.21
Mainstem	148389	10-year	11230.00	35.33	55.340	44.13	55.77	0.000774	5.40	2878.15	426.53	0.22
Mainstem	148115	10-year	11230.00	34.85	55.338	43.40	55.56	0.000439	4.09	5553.14	853.89	0.17
Mainstem	147724	10-year	11230.00	32.96	55.225	43.82	55.38	0.000384	3.85	7852.05	967.80	0.16
Mainstem	147523	10-year	11230.00	33.85	55.144	43.56	55.30	0.000390	3.94	7430.24	743.88	0.16
Mainstem	147323	10-year	11230.00	34.82	55.087	43.67	55.22	0.000321	3.39	6388.77	657.71	0.14
Mainstem	147127	10-year	11230.00	33.61	55.057	44.09	55.16	0.000265	3.13	5119.80	544.01	0.13
Mainstem	146932	10-year	11230.00	31.45	54.853	42.17	55.08	0.000398	3.89	3371.02	329.80	0.16
Mainstem	146826	10-year	11230.00	33.81	54.604	43.57	55.01	0.000760	5.42	2988.68	366.28	0.22
Mainstem	146678	10-year	11230.00	34.71	54.626	42.38	54.87	0.000446	4.11	3454.90	287.01	0.17
Mainstem	146509	10-year	11230.00	34.24	54.441	43.25	54.78	0.000634	4.78	2832.37	231.14	0.20
Mainstem	146356	10-year	11230.00	32.88	54.368	42.22	54.68	0.000546	4.55	2732.54	190.31	0.19
Mainstem	146219	10-year	11230.00	29.15	53.935	42.15	54.55	0.001016	6.37	2013.58	155.93	0.25
Mainstem	146193		Bridge									
Mainstem	146166	10-year	11230.00	29.97	53.848	42.74	54.49	0.001089	6.53	2014.63	162.20	0.26
Mainstem	146013	10-year	11230.00	27.23	53.825	40.57	54.31	0.000736	5.64	2323.24	260.45	0.22
Mainstem	145818	10-year	11230.00	30.10	53.700	41.24	54.15	0.000742	5.55	2294.66	179.68	0.22
Mainstem	145401	10-year	11230.00	33.69	53.468	41.43	53.84	0.000643	4.99	2502.41	184.19	0.20
Mainstem	145168	10-year	11230.00	33.03	53.405	40.78	53.68	0.000484	4.25	3052.33	252.36	0.18
Mainstem	144957	10-year	11230.00	32.01	53.435	40.57	53.57	0.000254	2.99	4922.34	430.77	0.13
Mainstem	144741	10-year	11230.00	30.43	53.320	40.13	53.50	0.000342	3.74	5819.64	578.88	0.15
Mainstem	144614	10-year	11230.00	27.56	53.231	38.90	53.45	0.000403	4.21	5726.59	546.96	0.16
Mainstem	144461	10-year	11230.00	32.44	53.226	40.31	53.38	0.000308	3.46	6131.92	528.45	0.14
Mainstem	144308	10-year	11230.00	32.63	53.207	41.03	53.32	0.000276	3.00	6367.36	510.07	0.13
Mainstem	144149	10-year	11230.00	31.85	53.149	39.45	53.28	0.000239	3.08	5492.28	428.84	0.13
Mainstem	143964	10-year	11230.00	27.10	52.872	38.54	53.20	0.000500	4.61	2631.85	283.13	0.18
Mainstem	143716	10-year	11230.00	32.09	52.626	40.88	53.04	0.000721	5.22	2410.93	262.97	0.21
Mainstem	143025	10-year	11230.00	28.42	52.417	38.39	52.64	0.000366	3.94	3803.56	306.39	0.15
Mainstem	141868	10-year	11230.00	29.60	51.863	39.11	52.14	0.000499	4.42	3363.47	332.57	0.18
Mainstem	140638	10-year	11230.00	29.91	51.281	37.84	51.55	0.000455	4.39	3423.56	275.37	0.17
Mainstem	139281	10-year	11230.00	28.53	50.588	36.94	50.89	0.000511	4.54	2880.40	347.05	0.18
Mainstem	138563	10-year	11230.00	28.86	50.459	35.11	50.60	0.000246	3.10	4246.96	496.94	0.12
Mainstem	137766	10-year	11230.00	26.76	50.048	34.85	50.34	0.000407	4.39	3027.48	697.03	0.16
Mainstem	137280	10-year	11230.00	18.66	49.760	35.00	50.10	0.000573	4.84	2849.47	748.15	0.18
Mainstem	137248	10-year	11230.00	18.94	49.631	34.32	50.07	0.000524	5.54	2665.81	174.69	0.20
Mainstem	136499	10-year	11230.00	24.02	49.339	34.41	49.69	0.000421	4.85	2602.33	365.83	0.18
Mainstem	134904	10-year	11230.00	25.62	48.681	34.02	49.04	0.000396	4.94	2709.82	163.12	0.19
Mainstem	134160	10-year	11230.00	24.07	48.420	33.10	48.76	0.000359	4.80	2885.90	170.77	0.18
Mainstem	133262	10-year	11230.00	21.73	48.061	31.88	48.42	0.000377	4.91	2748.80	202.34	0.18
Mainstem	133204		Bridge									
Mainstem	133140	10-year	11230.00	21.73	47.901	32.03	48.36	0.000477	5.61	2600.56	173.21	0.20
Mainstem	132507	10-year	11230.00	21.64	47.577	32.26	48.03	0.000565	5.52	2417.49	149.81	0.20
Mainstem	132465		Bridge									
Mainstem	132417	10-year	11230.00	21.64	47.641	31.50	47.94	0.000328	4.50	2889.03	162.54	0.16
Mainstem	131139	10-year	11230.00	15.96	46.927	30.04	47.41	0.000520	5.71	2417.19	151.38	0.20
Mainstem	130490	10-year	11230.00	20.03	46.647	30.85	47.07	0.000463	5.42	2669.08	169.78	0.19
Mainstem	129777	10-year	11230.00	16.31	46.205	29.60	46.70	0.000572	5.78	2342.92	134.00	0.20
Mainstem	128816	10-year	11230.00	21.35	45.826	30.57	46.20	0.000408	5.02	2678.27	164.97	0.18
Mainstem	128109	10-year	11230.00	19.64	45.390	30.86	45.86	0.000531	5.64	2412.67	157.71	0.21
Mainstem	128082		Bridge									
Mainstem	128056	10-year	11230.00	19.64	45.410	30.72	45.82	0.000451	5.27	2649.11	165.26	0.20
Mainstem	127053	10-year	11230.00	19.06	44.698	30.34	45.25	0.000683	6.13	2262.66	159.03	0.22

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	127037		Bridge									
Mainstem	127016	10-year	11230.00	19.06	44.663	30.46	45.22	0.000703	6.17	2241.64	133.04	0.23
Mainstem	126958	10-year	11230.00	15.14	44.738	27.72	45.13	0.000499	5.22	2601.18	135.57	0.18
Mainstem	126942		Bridge									
Mainstem	126921	10-year	11230.00	15.14	44.664	27.75	45.11	0.000558	5.51	2445.29	128.52	0.19
Mainstem	125796	10-year	11230.00	18.94	44.304	29.08	44.65	0.000279	4.81	2806.61	170.13	0.18
Mainstem	125712		Bridge									
Mainstem	125627	10-year	11230.00	18.94	44.095	29.36	44.58	0.000390	5.71	2477.79	166.40	0.21
Mainstem	124872	10-year	11580.00	12.43	43.880	26.70	44.29	0.000325	5.24	2725.21	193.07	0.18
Mainstem	123953	10-year	11580.00	13.32	43.653	25.39	44.02	0.000249	5.00	3338.03	268.11	0.17
Mainstem	123161	10-year	11580.00	17.94	43.382	28.05	43.79	0.000320	5.19	2643.52	160.04	0.19
Mainstem	122448	10-year	11580.00	18.06	43.295	26.84	43.57	0.000205	4.24	3150.96	209.60	0.16
Mainstem	122412		Bridge									
Mainstem	122375	10-year	11580.00	18.06	43.224	27.28	43.54	0.000240	4.62	3065.38	198.75	0.17
Mainstem	121583	10-year	11580.00	16.81	43.041	25.75	43.35	0.000238	4.55	3096.76	181.36	0.16
Mainstem	120426	10-year	11580.00	15.94	42.716	26.08	43.06	0.000262	4.80	2958.67	180.02	0.17
Mainstem	119666	10-year	11580.00	16.84	42.542	26.24	42.86	0.000248	4.59	3067.73	182.72	0.17
Mainstem	118425	10-year	11580.00	10.95	42.256	23.48	42.56	0.000226	4.57	2988.52	160.97	0.16
Mainstem	117617	10-year	11580.00	15.01	42.040	24.90	42.37	0.000239	4.68	2946.10	170.88	0.17
Mainstem	116487	10-year	11580.00	14.03	41.868	23.91	42.11	0.000174	4.05	3287.81	175.82	0.14
Mainstem	116429		Bridge									
Mainstem	116371	10-year	11580.00	11.57	41.755	24.42	42.08	0.000242	4.67	2906.56	160.60	0.16
Mainstem	115241	10-year	11580.00	11.25	41.404	22.97	41.77	0.000301	4.97	2753.25	144.33	0.17
Mainstem	114465	10-year	11580.00	9.06	41.213	21.33	41.56	0.000244	4.84	3117.42	192.24	0.16
Mainstem	113747	10-year	11580.00	12.07	41.071	23.05	41.37	0.000231	4.50	3129.46	182.53	0.16
Mainstem	113008	10-year	11700.00	11.60	40.803	22.96	41.17	0.000299	5.05	2923.41	179.61	0.17
Mainstem	112401	10-year	11700.00	12.60	40.641	23.28	41.00	0.000273	4.88	2932.74	183.34	0.17
Mainstem	112369		Bridge									
Mainstem	112337	10-year	11700.00	13.63	40.657	23.90	40.97	0.000237	4.54	3076.36	195.71	0.16
Mainstem	112258	10-year	11700.00	14.03	40.661	23.55	40.94	0.000211	4.29	3045.22	164.75	0.15
Mainstem	112242		Bridge									
Mainstem	112226	10-year	11700.00	14.03	40.580	24.15	40.92	0.000257	4.78	2897.89	163.27	0.17
Mainstem	111661	10-year	11700.00	8.64	40.491	20.21	40.77	0.000217	4.40	3449.24	199.23	0.15
Mainstem	111160	10-year	11700.00	10.54	40.289	22.25	40.64	0.000287	4.86	2938.84	171.01	0.17
Mainstem	110959	10-year	11700.00	12.22	40.234	22.67	40.59	0.000258	4.85	2890.39	159.47	0.17
Mainstem	110410	10-year	11700.00	9.05	40.190	19.72	40.44	0.000165	4.11	3294.26	157.93	0.14
Mainstem	109776	10-year	11700.00	6.72	40.083	18.00	40.34	0.000165	4.15	3390.57	160.79	0.13
Mainstem	108673	10-year	11700.00	8.06	39.796	20.12	40.12	0.000241	4.70	3227.33	172.44	0.16
Mainstem	107928	10-year	11700.00	9.49	39.551	22.16	39.91	0.000310	4.97	3004.52	165.57	0.17
Mainstem	107063	10-year	11700.00	5.88	39.307	19.83	39.66	0.000271	4.84	2941.89	168.45	0.16
Mainstem	106308	10-year	11700.00	11.13	39.141	20.70	39.45	0.000241	4.56	3023.81	181.92	0.16
Mainstem	105120	10-year	11700.00	10.61	38.978	20.15	39.19	0.000159	3.78	3607.42	209.04	0.13
Mainstem	103794	10-year	11700.00	6.68	38.557	19.18	38.90	0.000290	4.84	3023.51	170.35	0.16
Mainstem	102469	10-year	11740.00	10.64	38.187	20.84	38.53	0.000270	4.77	2872.65	169.99	0.17
Mainstem	101820	10-year	11740.00	10.16	38.056	20.56	38.36	0.000231	4.45	3073.68	189.43	0.16
Mainstem	101719	10-year	11740.00	10.16	38.027	20.60	38.33	0.000252	4.46	2957.35	180.54	0.16
Mainstem	101566	10-year	11740.00	5.75	37.907	19.85	38.28	0.000329	4.97	2769.82	172.31	0.17
Mainstem	100716	10-year	11740.00	1.31	37.648	19.58	38.00	0.000310	4.86	2832.93	154.78	0.17
Mainstem	99333	10-year	11740.00	9.13	37.328	19.85	37.61	0.000232	4.32	3039.61	174.34	0.15
Mainstem	99312		Bridge									
Mainstem	99301	10-year	11740.00	9.13	37.307	19.84	37.60	0.000237	4.43	3083.49	177.23	0.16
Mainstem	98271	10-year	11740.00	8.17	36.767	21.59	37.27	0.000412	5.78	2525.15	182.36	0.21
Mainstem	97527	10-year	11740.00	5.97	36.653	18.32	36.96	0.000274	4.54	3130.31	233.49	0.16
Mainstem	96693	10-year	11740.00	6.79	36.574	16.03	36.78	0.000132	3.65	3520.13	184.07	0.12
Mainstem	95420	10-year	11740.00	8.70	36.162	19.10	36.53	0.000269	4.92	2781.29	177.81	0.17
Mainstem	94285	10-year	11740.00	7.88	35.784	20.52	36.18	0.000341	5.15	2704.86	175.88	0.19
Mainstem	94232		Bridge									
Mainstem	94195	10-year	11740.00	7.88	35.695	20.41	36.15	0.000371	5.55	2755.97	178.34	0.20
Mainstem	93065	10-year	11740.00	4.02	35.343	17.08	35.75	0.000313	5.22	2966.30	365.72	0.18
Mainstem	92020	10-year	11740.00	8.76	35.016	18.62	35.40	0.000339	5.10	2814.44	167.61	0.18
Mainstem	90932	10-year	11740.00	7.20	34.560	17.57	35.02	0.000347	5.54	2540.74	145.97	0.19
Mainstem	89786	10-year	11740.00	-1.09	34.384	12.89	34.65	0.000219	4.29	3465.69	230.50	0.14
Mainstem	89744		Bridge									
Mainstem	89691	10-year	11740.00	-1.09	34.306	12.96	34.62	0.000253	4.67	3444.83	263.38	0.15
Mainstem	88704	10-year	11740.00	6.87	33.964	18.08	34.34	0.000322	4.97	2719.19	158.79	0.18
Mainstem	87743	10-year	11740.00	7.95	33.799	16.97	34.06	0.000210	4.12	3262.19	194.40	0.15
Mainstem	86671	10-year	11930.00	5.51	33.462	16.18	33.79	0.000284	4.67	3044.09	173.19	0.17
Mainstem	86407	10-year	11930.00	5.77	33.389	16.29	33.71	0.000305	4.67	3180.27	184.97	0.16
Mainstem	86339	10-year	11930.00	6.58	33.402	15.73	33.68	0.000206	4.31	3351.03	188.69	0.15
Mainstem	85462	10-year	11930.00	2.43	32.954	15.34	33.42	0.000367	5.64	2666.97	159.20	0.19
Mainstem	84564	10-year	11930.00	4.42	32.755	15.22	33.11	0.000273	4.84	2932.22	168.12	0.17
Mainstem	83714	10-year	11930.00	-3.23	32.610	14.70	32.87	0.000222	4.17	3374.79	188.43	0.15
Mainstem	83181	10-year	11930.00	2.90	32.417	15.27	32.74	0.000260	4.59	2976.15	167.69	0.16
Mainstem	83091	10-year	11930.00	2.35	32.384	15.41	32.71	0.000364	4.62	2871.82	165.43	0.17
Mainstem	82342	10-year	11930.00	2.38	32.019	13.73	32.43	0.000353	5.31	2910.38	175.89	0.18

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	81333	10-year	11930.00	0.84	31.530	14.43	32.03	0.000440	5.83	2624.72	162.86	0.20
Mainstem	80504	10-year	11930.00	2.88	31.354	13.71	31.70	0.000269	4.79	2963.29	170.39	0.17
Mainstem	79728	10-year	11930.00	3.61	30.956	14.47	31.44	0.000384	5.72	2623.42	155.06	0.20
Mainstem	79052	10-year	11930.00	4.50	30.822	14.44	31.17	0.000298	4.79	2821.57	159.80	0.17
Mainstem	78978	10-year	11930.00	3.79	30.820	13.44	31.14	0.000234	4.62	2960.36	158.54	0.16
Mainstem	78852	10-year	11930.00	-0.49	30.683	14.74	31.10	0.000414	5.22	2620.76	156.34	0.19
Mainstem	77869	10-year	11930.00	3.20	30.078	14.27	30.65	0.000475	6.17	2378.44	145.75	0.22
Mainstem	77848	Bridge										
Mainstem	77832	10-year	11930.00	3.20	30.075	14.35	30.62	0.000478	6.07	2381.69	145.74	0.21
Mainstem	77579	10-year	11930.00	3.50	30.113	13.81	30.47	0.000281	4.89	2837.54	157.38	0.18
Mainstem	77400	10-year	11930.00	2.77	29.994	14.22	30.41	0.000430	5.30	2771.90	163.50	0.19
Mainstem	76740	10-year	11930.00	2.96	29.495	14.31	30.08	0.000499	6.29	2334.89	142.82	0.22
Mainstem	75662	10-year	11930.00	3.63	28.930	15.29	29.52	0.000551	6.32	2395.19	173.59	0.23
Mainstem	75610	Bridge										
Mainstem	75557	10-year	11930.00	3.63	28.973	14.05	29.42	0.000364	5.51	2549.02	161.47	0.20
Mainstem	74812	10-year	11930.00	2.01	28.764	12.37	29.15	0.000331	5.06	2783.53	162.25	0.18
Mainstem	74036	10-year	11930.00	1.60	28.269	13.28	28.83	0.000469	6.11	2393.28	152.33	0.22
Mainstem	73350	10-year	11930.00	3.13	28.100	12.99	28.51	0.000343	5.19	2674.79	160.28	0.19
Mainstem	72626	10-year	11930.00	2.18	27.739	12.72	28.23	0.000410	5.72	2498.10	152.50	0.21
Mainstem	71444	10-year	11930.00	-0.11	27.204	12.20	27.72	0.000443	5.86	2361.57	134.10	0.21
Mainstem	70520	10-year	11930.00	2.26	26.886	12.25	27.32	0.000375	5.36	2603.07	160.27	0.20
Mainstem	70483	Bridge										
Mainstem	70472	10-year	11930.00	2.26	26.886	12.17	27.29	0.000344	5.15	2608.57	156.97	0.19
Mainstem	69796	10-year	11930.00	2.09	26.656	12.22	27.05	0.000351	5.12	2624.43	151.31	0.19
Mainstem	68930	10-year	11930.00	2.12	26.225	12.95	26.71	0.000439	5.64	2395.77	152.89	0.22
Mainstem	68878	Bridge										
Mainstem	68814	10-year	11930.00	2.84	26.145	12.36	26.60	0.000449	5.53	2520.14	163.32	0.21
Mainstem	68181	10-year	11930.00	-2.79	25.990	10.71	26.33	0.000314	4.71	2680.51	154.04	0.18
Mainstem	67220	10-year	11930.00	-3.21	25.713	10.92	26.04	0.000292	4.66	3152.79	283.70	0.18
Mainstem	66327	10-year	11930.00	-0.29	25.305	11.16	25.73	0.000376	5.30	2585.72	168.20	0.20
Mainstem	65704	10-year	11930.00	2.34	25.117	11.18	25.49	0.000354	4.95	2771.01	185.26	0.19
Mainstem	65615	Bridge										
Mainstem	65535	10-year	11930.00	-0.46	25.046	10.27	25.34	0.000313	4.37	2952.75	192.28	0.17
Mainstem	65366	10-year	11930.00	-2.38	24.830	9.59	25.26	0.000445	5.38	2612.13	165.57	0.20
Mainstem	65314	Bridge										
Mainstem	65277	10-year	11930.00	-2.38	24.661	9.52	25.20	0.000548	6.00	2376.49	145.87	0.22
Mainstem	64907	10-year	11930.00	-1.17	24.395	10.90	24.99	0.000541	6.31	2237.57	142.11	0.24
Mainstem	64854	Bridge										
Mainstem	64812	10-year	11930.00	-2.16	24.438	8.62	24.90	0.000394	5.49	2475.24	150.96	0.20
Mainstem	64664	10-year	11930.00	-4.94	24.130	9.57	24.79	0.000759	6.63	2082.23	143.52	0.24
Mainstem	64611	Bridge										
Mainstem	64564	10-year	11930.00	-1.06	24.176	9.70	24.69	0.000478	5.84	2332.55	149.23	0.22
Mainstem	64490	10-year	11930.00	-2.57	24.309	7.35	24.60	0.000239	4.35	2951.45	157.62	0.16
Mainstem	64474	Bridge										
Mainstem	64453	10-year	11930.00	-2.57	24.285	7.34	24.59	0.000241	4.47	2959.48	160.75	0.16
Mainstem	63809	10-year	11930.00	3.01	24.099	10.69	24.42	0.000298	4.61	3105.19	207.42	0.18
Mainstem	62610	10-year	11930.00	2.08	23.742	10.59	24.06	0.000297	4.55	2877.94	178.38	0.18
Mainstem	61570	10-year	11930.00	-0.98	23.143	10.01	23.66	0.000471	5.83	2372.54	157.41	0.22
Mainstem	61533	Bridge										
Mainstem	61501	10-year	11930.00	-0.98	23.092	9.98	23.61	0.000471	5.84	2358.17	147.98	0.22
Mainstem	60646	10-year	11930.00	-0.37	22.803	10.16	23.19	0.000409	5.03	2487.63	159.09	0.21
Mainstem	60504	10-year	11930.00	-6.53	22.825	6.44	23.12	0.000259	4.39	2976.48	170.77	0.16
Mainstem	59796	10-year	11930.00	-4.05	22.473	7.13	22.89	0.000358	5.24	2523.37	145.92	0.19
Mainstem	59036	10-year	11930.00	-1.28	22.152	8.61	22.59	0.000449	5.33	2390.99	143.50	0.21
Mainstem	58075	10-year	11930.00	-2.23	21.796	8.71	22.16	0.000396	4.89	2643.50	173.07	0.20
Mainstem	58011	Bridge										
Mainstem	57980	10-year	11930.00	-0.91	21.808	8.00	22.11	0.000287	4.43	2883.97	182.80	0.17
Mainstem	57119	10-year	12410.00	1.48	21.472	9.95	21.82	0.000363	4.81	2839.71	197.32	0.20
Mainstem	57045	10-year	12410.00	0.97	21.486	8.79	21.78	0.000312	4.38	2948.93	189.63	0.18
Mainstem	56380	10-year	12410.00	-2.70	20.999	9.56	21.49	0.000551	5.66	2395.74	200.53	0.23
Mainstem	55672	10-year	12410.00	-0.24	20.803	8.31	21.13	0.000363	4.60	2849.71	208.84	0.19
Mainstem	54907	10-year	12410.00	-7.84	20.417	7.30	20.82	0.000430	5.13	2640.42	172.63	0.20
Mainstem	54896	Bridge										
Mainstem	54886	10-year	12410.00	-7.84	20.399		20.79	0.000418	5.05	2619.20	164.06	0.20
Mainstem	53756	10-year	12410.00	-0.71	20.021	7.99	20.34	0.000347	4.54	2926.38	262.51	0.19
Mainstem	52858	10-year	12410.00	-0.45	19.689	7.91	20.01	0.000378	4.67	3266.23	398.65	0.20
Mainstem	51855	10-year	12410.00	-7.58	19.273	6.27	19.61	0.000424	4.70	2933.92	242.51	0.20
Mainstem	50894	10-year	12410.00	-2.28	18.902	7.07	19.24	0.000357	4.67	2898.94	199.46	0.19
Mainstem	49959	10-year	12410.00	-4.51	18.543	6.93	18.88	0.000411	4.65	2772.23	209.66	0.20
Mainstem	48909	10-year	12410.00	-9.47	17.908	5.39	18.37	0.000555	5.46	2462.31	190.11	0.22
Mainstem	48877	Bridge										
Mainstem	48840	10-year	12410.00	-9.47	17.856	5.37	18.33	0.000594	5.54	2437.69	204.47	0.23
Mainstem	47583	10-year	12410.00	-3.57	17.308		17.65	0.000434	4.74	2795.31	237.19	0.21
Mainstem	46469	10-year	12410.00	-6.77	16.820		17.17	0.000428	4.78	2632.14	179.15	0.20
Mainstem	45651	10-year	12410.00	-8.06	16.303		16.75	0.000599	5.39	2381.05	172.96	0.24

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	44822	10-year	12410.00	-16.74	16.140		16.35	0.000281	3.73	3573.23	292.25	0.16
Mainstem	44030	10-year	12410.00	-10.52	15.745		16.08	0.000412	4.63	2793.86	189.30	0.20
Mainstem	43322	10-year	12410.00	-5.44	15.556		15.79	0.000325	3.89	3317.48	271.13	0.18
Mainstem	42557	10-year	12410.00	-3.65	15.172		15.50	0.000423	4.58	2826.39	224.88	0.20
Mainstem	41601	10-year	12410.00	-9.33	14.709	4.03	15.06	0.000488	4.77	2714.99	206.04	0.21
Mainstem	41554											
Mainstem	41506	10-year	12410.00	-9.33	14.498	4.70	14.97	0.000716	5.55	2336.90	176.51	0.25
Mainstem	40403	10-year	12410.00	-3.69	14.116		14.38	0.000342	4.14	3057.11	219.49	0.19
Mainstem	39077	10-year	12410.00	-7.62	13.564	2.70	13.88	0.000407	4.54	2778.14	188.83	0.20
Mainstem	39056											
Mainstem	39014	10-year	12410.00	-5.87	13.528		13.83	0.000367	4.39	2878.79	198.51	0.20
Mainstem	38343	10-year	12410.00	-5.39	13.229		13.55	0.000440	4.58	2736.14	191.73	0.21
Mainstem	37261	10-year	12410.00	-6.47	12.779		13.10	0.000401	4.54	2760.90	185.82	0.20
Mainstem	36226	10-year	12410.00	-9.10	12.386	2.07	12.68	0.000395	4.34	2888.96	207.26	0.20
Mainstem	36173											
Mainstem	36120	10-year	12410.00	-9.10	12.277	2.22	12.62	0.000467	4.72	2695.05	208.85	0.22
Mainstem	35434	10-year	12410.00	-4.42	12.008		12.30	0.000426	4.35	2869.76	216.56	0.21
Mainstem	34653	10-year	12410.00	-9.97	11.700	0.74	11.99	0.000368	4.35	2864.10	211.51	0.19
Mainstem	34579											
Mainstem	34510	10-year	12410.00	-9.97	11.590	0.91	11.93	0.000454	4.68	2677.64	181.87	0.21
Mainstem	33180	10-year	12410.00	-7.14	10.859	1.31	11.23	0.000602	4.91	2546.32	186.87	0.23
Mainstem	33164											
Mainstem	33137	10-year	12410.00	-5.66	10.728	2.61	11.19	0.000772	5.45	2331.38	209.76	0.27
Mainstem	31659	10-year	12410.00	-9.25	10.136	-1.04	10.40	0.000343	4.11	3104.63	237.67	0.18
Mainstem	30814	10-year	12410.00	-10.52	9.882		10.12	0.000305	3.89	3245.61	218.51	0.17
Mainstem	30001	10-year	12410.00	-9.50	9.674		9.88	0.000262	3.62	3462.25	245.95	0.17
Mainstem	29209	10-year	12410.00	-9.72	9.491	-1.83	9.68	0.000232	3.46	3619.04	245.59	0.16
Mainstem	29172											
Mainstem	29114	10-year	12410.00	-11.54	9.457	-2.16	9.61	0.000185	3.10	4020.12	279.53	0.14
Mainstem	28649	10-year	12410.00	-8.94	9.417		9.52	0.000134	2.56	4864.31	353.44	0.12
Mainstem	28591	10-year	12410.00	-8.12	9.410		9.51	0.000131	2.54	4932.23	366.06	0.12
Mainstem	28528	10-year	12410.00	-8.34	9.411		9.50	0.000112	2.37	5264.19	377.46	0.11
Mainstem	28464	10-year	12410.00	-11.43	9.405		9.49	0.000115	2.36	5298.65	390.97	0.11
Mainstem	28369	10-year	12410.00	-8.48	9.391		9.48	0.000123	2.39	5217.46	392.16	0.11
Mainstem	28322	10-year	12410.00	-8.95	9.391		9.47	0.000110	2.28	5507.06	418.91	0.11
Mainstem	28243	10-year	12410.00	-9.92	9.382	-2.60	9.46	0.000111	2.28	5447.63	406.79	0.11
Mainstem	28190											
Mainstem	28164	10-year	12410.00	-10.62	9.353		9.44	0.000113	2.35	5295.81	379.03	0.11
Mainstem	27778	10-year	12410.00	-12.40	9.361		9.39	0.000054	1.46	8520.49	726.68	0.07
Mainstem	27678	10-year	12410.00	-9.82	9.322		9.38	0.000106	2.01	6539.40	680.29	0.10
Mainstem	27372	10-year	12410.00	-19.62	9.342		9.36	0.000018	1.05	11866.80	758.12	0.04
Mainstem	25439	10-year	12410.00	-18.93	9.292		9.32	0.000027	1.27	9762.97	597.27	0.06
Mainstem	25085	10-year	12410.00	-18.00	9.305		9.31	0.000002	0.43	28754.71	1441.77	0.02
Mainstem	24652	10-year	12410.00	-18.66	9.291		9.30	0.000016	0.96	12934.69	806.34	0.04
Mainstem	24563	10-year	12410.00	-19.46	9.289		9.30	0.000015	0.95	13114.28	806.17	0.04
Mainstem	24473	10-year	12410.00	-18.92	9.288		9.30	0.000014	0.94	13203.46	802.19	0.04
Mainstem	24383	10-year	12410.00	-19.03	9.287		9.30	0.000014	0.92	13520.64	833.13	0.04
Mainstem	24283	10-year	12410.00	-18.35	9.286		9.30	0.000014	0.91	13634.61	840.69	0.04
Mainstem	24172	10-year	12410.00	-15.01	9.275		9.30	0.000026	1.17	10584.66	713.25	0.05
Mainstem	23924	10-year	12410.00	-15.13	9.260		9.29	0.000040	1.33	9410.46	551.43	0.06
Mainstem	23786	10-year	12410.00	-15.45	9.256		9.28	0.000028	1.34	9306.95	549.08	0.06
Mainstem	23718	10-year	12410.00	-15.64	9.252		9.28	0.000029	1.37	9118.99	546.85	0.06
Mainstem	23649	10-year	12410.00	-15.78	9.249		9.28	0.000031	1.39	9030.96	578.43	0.06
Mainstem	23496	10-year	12410.00	-15.62	9.236		9.27	0.000039	1.55	8066.72	510.82	0.07
Mainstem	23417	10-year	12410.00	-15.59	9.233		9.27	0.000038	1.55	8061.85	492.93	0.07
Mainstem	23327	10-year	12410.00	-15.43	9.228		9.27	0.000039	1.57	7951.74	485.14	0.07
Mainstem	23052	10-year	12410.00	-15.55	9.217		9.26	0.000040	1.57	7916.42	465.11	0.07
Mainstem	22989	10-year	12410.00	-15.75	9.214		9.25	0.000038	1.58	7906.42	464.29	0.07
Mainstem	22889	10-year	12410.00	-15.99	9.210		9.25	0.000040	1.59	7826.99	466.35	0.07
Mainstem	22794	10-year	12410.00	-16.26	9.198		9.24	0.000044	1.73	7169.87	406.07	0.07
Mainstem	22688	10-year	12410.00	-16.25	9.190		9.24	0.000047	1.77	7009.87	398.92	0.07
Mainstem	22598	10-year	12410.00	-16.28	9.187		9.23	0.000045	1.74	7135.48	412.19	0.07
Mainstem	22540	10-year	12410.00	-16.40	9.184		9.23	0.000122	1.72	7221.43	408.79	0.07
Mainstem	22334	10-year	12410.00	-19.84	9.173		9.22	0.000041	1.65	7540.66	420.40	0.07
Mainstem	22271	10-year	12410.00	-21.51	9.171		9.21	0.000038	1.64	7603.76	417.54	0.07
Mainstem	22128	10-year	12410.00	-17.95	9.167		9.21	0.000035	1.60	7759.32	410.77	0.06
Mainstem	22039	10-year	12410.00	-18.51	9.166		9.20	0.000033	1.57	7930.02	416.36	0.06
Mainstem	21923	10-year	12410.00	-19.56	9.163		9.20	0.000033	1.56	7961.64	431.02	0.06
Mainstem	21843	10-year	12410.00	-20.81	9.158		9.20	0.000034	1.58	7858.85	423.38	0.06
Mainstem	21358	10-year	12410.00	-20.14	9.150		9.18	0.000029	1.36	9182.23	550.80	0.06
Mainstem	20793	10-year	12410.00	-20.69	9.136		9.16	0.000026	1.31	9468.18	552.33	0.06
Mainstem	20544	10-year	12410.00	-23.49	9.132		9.16	0.000023	1.25	10007.22	572.18	0.05
Mainstem	20492	10-year	12410.00	-24.57	9.129	-15.44	9.15	0.000020	1.29	9949.54	548.85	0.05
Mainstem	20428											
Mainstem	20418	10-year	12410.00	-24.04	9.090		9.12	0.000066	1.38	9119.40	495.77	0.05

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	20207	10-year	12410.00	-21.14	9.079		9.11	0.000036	1.46	8525.20	464.99	0.06
Mainstem	20090	10-year	12410.00	-20.67	9.074		9.11	0.000031	1.47	8464.93	461.69	0.06
Mainstem	19990	10-year	12410.00	-20.41	9.069		9.10	0.000047	1.50	8300.96	451.35	0.06
Mainstem	19895	10-year	12410.00	-20.36	9.066		9.10	0.000031	1.48	8468.43	496.79	0.06
Mainstem	19795	10-year	12410.00	-20.30	9.064		9.10	0.000032	1.44	8796.23	578.03	0.06
Mainstem	19721	10-year	12410.00	-20.39	9.063		9.09	0.000028	1.40	9146.76	630.91	0.06
Mainstem	19584	10-year	12410.00	-20.35	9.059		9.09	0.000038	1.38	9163.19	627.71	0.06
Mainstem	19488	10-year	12410.00	-20.09	9.055		9.09	0.000034	1.41	9003.19	612.30	0.06
Mainstem	19356	10-year	12410.00	-19.87	9.049		9.08	0.000036	1.42	8944.41	610.06	0.06
Mainstem	19188	10-year	12410.00	-19.58	9.043		9.07	0.000034	1.44	8754.86	537.41	0.06
Mainstem	19077	10-year	12410.00	-19.59	9.039		9.07	0.000029	1.43	8723.43	488.64	0.06
Mainstem	18966	10-year	12410.00	-19.48	9.037		9.07	0.000030	1.40	8920.32	523.20	0.06
Mainstem	18876	10-year	12410.00	-19.52	9.036		9.06	0.000029	1.33	9327.12	566.40	0.06
Mainstem	18781	10-year	12410.00	-19.66	9.029		9.06	0.000029	1.43	8773.08	501.49	0.06
Mainstem	18670	10-year	12410.00	-19.65	9.020	-12.73	9.06	0.000033	1.54	8072.24	439.97	0.06

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W. S. Elev (ft)	Crit W. S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	339478	100-year	12070.00	1008.02	1025.605		1026.39	0.002922	7.12	1727.57	122.26	0.32
Mainstem	338369	100-year	12070.00	1005.35	1019.163		1021.00	0.009158	11.24	1209.93	129.38	0.58
Mainstem	337904	100-year	12070.00	1001.43	1014.695		1016.45	0.010289	11.18	1270.88	158.77	0.60
Mainstem	337482	100-year	12070.00	997.51	1009.549		1011.55	0.013027	11.49	1107.53	135.40	0.66
Mainstem	336700	100-year	12070.00	987.32	1002.093		1003.73	0.007767	10.52	1283.17	147.36	0.53
Mainstem	335935	100-year	12070.00	979.60	995.757		997.66	0.007980	11.46	1214.12	125.59	0.54
Mainstem	335127	100-year	12070.00	976.75	991.061		992.22	0.005329	8.80	1483.86	150.22	0.44
Mainstem	334335	100-year	12070.00	973.99	986.863		987.97	0.005424	8.52	1489.53	150.74	0.44
Mainstem	333485	100-year	12070.00	970.06	982.293		983.32	0.005416	8.32	1585.39	180.34	0.44
Mainstem	332814	100-year	12070.00	964.25	977.227		978.75	0.008659	10.35	1329.55	151.16	0.55
Mainstem	331901	100-year	12070.00	953.70	971.176		972.54	0.005426	9.51	1366.29	126.29	0.45
Mainstem	331251	100-year	12070.00	949.66	961.179	961.18	965.49	0.027679	16.97	769.12	97.68	0.97
Mainstem	330787	100-year	12070.00	936.35	953.224		955.29	0.008666	12.22	1210.63	127.09	0.57
Mainstem	330211	100-year	12070.00	928.46	950.037		951.52	0.004693	9.98	1330.85	99.60	0.42
Mainstem	329667	100-year	12070.00	928.53	947.404		948.82	0.005221	9.77	1358.25	108.62	0.44
Mainstem	328965	100-year	12070.00	927.65	943.115	938.90	944.66	0.006663	10.43	1391.73	160.98	0.50
Mainstem	328041	100-year	12070.00	921.69	934.133		936.51	0.011949	12.51	1018.72	102.44	0.65
Mainstem	327027	100-year	12070.00	915.20	929.731		930.48	0.003125	7.07	1838.83	162.70	0.34
Mainstem	326288	100-year	12070.00	910.27	926.253		927.53	0.005054	9.26	1441.93	141.65	0.44
Mainstem	325755	100-year	12070.00	910.43	924.238		925.08	0.003798	7.43	1716.44	162.32	0.37
Mainstem	325206	100-year	12070.00	908.22	922.155		922.97	0.003841	7.54	1790.32	169.62	0.38
Mainstem	324789	100-year	12070.00	904.40	919.936		921.11	0.004964	9.05	1535.61	151.20	0.43
Mainstem	324519	100-year	12070.00	902.89	919.397		920.03	0.002510	6.55	2069.70	196.55	0.31
Mainstem	324255	100-year	12070.00	903.12	918.149		919.14	0.004208	8.17	1623.09	161.30	0.40
Mainstem	324060	100-year	12070.00	902.25	917.526		918.36	0.003418	7.49	1757.93	166.21	0.36
Mainstem	323706	100-year	12070.00	902.21	916.061		916.96	0.004833	8.20	1751.25	182.32	0.42
Mainstem	323226	100-year	12070.00	898.35	913.908		914.81	0.004115	8.19	1779.16	175.41	0.39
Mainstem	322877	100-year	12070.00	893.32	913.148		913.64	0.002293	5.88	2323.27	218.37	0.28
Mainstem	322692	100-year	12070.00	893.60	912.451		913.12	0.003403	6.90	2080.47	244.44	0.35
Mainstem	322539	100-year	12070.00	888.22	912.402	899.09	912.73	0.001153	4.76	2892.99	257.56	0.21
Mainstem	322360	100-year	12070.00	886.23	912.062	900.89	912.48	0.001616	5.40	2536.61	211.73	0.24
Mainstem	322323	100-year	12070.00	892.27	912.016	903.37	912.43	0.001618	5.33	2507.45	206.63	0.25
Mainstem	322106	100-year	12070.00	887.92	911.534	901.44	912.05	0.001706	5.82	2224.59	184.72	0.26
Mainstem	321990		Inl Struct									
Mainstem	321964	100-year	12070.00	879.22	894.607		895.31	0.002965	6.77	1839.73	155.49	0.33
Mainstem	321383	100-year	12070.00	874.07	891.649		893.05	0.005031	9.80	1405.97	121.76	0.44
Mainstem	320913	100-year	12070.00	871.33	889.868		890.95	0.003617	8.56	1556.05	120.14	0.38
Mainstem	320401	100-year	12070.00	869.76	884.111		887.38	0.015181	14.88	896.56	87.60	0.73
Mainstem	319910	100-year	12070.00	865.30	883.062		883.90	0.002907	7.53	1775.61	141.15	0.33
Mainstem	319419	100-year	12070.00	865.84	881.549		882.39	0.003216	7.44	1711.32	138.51	0.35
Mainstem	318690	100-year	12070.00	865.63	879.302		879.95	0.003335	6.64	1991.79	208.09	0.35
Mainstem	318664	100-year	12070.00	867.31	878.804		879.80	0.005817	8.19	1601.08	191.23	0.45
Mainstem	318109	100-year	12070.00	863.84	874.695		875.95	0.008365	9.45	1519.80	221.63	0.54
Mainstem	316832	100-year	12070.00	855.39	867.538		868.24	0.004381	6.73	1826.02	209.93	0.38
Mainstem	315623	100-year	12070.00	851.29	859.169	857.37	860.22	0.011273	8.67	1501.40	254.55	0.59
Mainstem	314635	100-year	12070.00	838.67	851.570		852.60	0.005601	8.47	1608.65	175.83	0.45
Mainstem	313801	100-year	12070.00	834.96	847.295		848.20	0.004862	7.70	1633.49	170.68	0.41
Mainstem	312903	100-year	12070.00	830.55	840.359		841.88	0.010926	10.04	1267.71	165.38	0.60
Mainstem	311853	100-year	12070.00	808.34	836.283		836.96	0.002383	6.79	1960.39	147.31	0.29
Mainstem	311340	100-year	12070.00	819.10	834.244		835.25	0.004863	8.08	1531.28	142.07	0.41
Mainstem	310533	100-year	12070.00	821.22	830.640	827.11	831.20	0.004776	6.32	2325.74	589.24	0.39
Mainstem	309830	100-year	12070.00	818.09	826.982		827.63	0.005478	6.50	1954.26	456.04	0.42
Mainstem	309107	100-year	12070.00	811.55	822.813	820.29	823.49	0.006191	7.73	2014.80	827.83	0.45
Mainstem	308368	100-year	12070.00	810.28	818.083	815.87	818.77	0.008112	7.53	1971.51	543.48	0.50
Mainstem	307956	100-year	12070.00	806.24	817.141		817.37	0.001700	4.08	3185.93	426.19	0.24
Mainstem	307708	100-year	12070.00	804.90	815.793		816.64	0.005297	7.47	1686.20	199.08	0.43
Mainstem	307660	100-year	12070.00	804.98	815.365		816.36	0.006843	8.31	1614.92	206.63	0.48
Mainstem	307402	100-year	12070.00	803.24	812.859		814.15	0.010402	9.71	1505.23	247.43	0.59
Mainstem	306984	100-year	12070.00	797.51	810.336		811.24	0.004720	7.97	1817.18	249.14	0.41
Mainstem	306816	100-year	12070.00	797.67	808.593		810.09	0.009364	10.10	1330.11	185.64	0.57
Mainstem	306324	100-year	12070.00	788.89	806.367		807.19	0.003596	7.43	1781.67	175.90	0.36
Mainstem	305628	100-year	12070.00	790.83	804.002		804.69	0.003448	6.65	1843.67	174.01	0.35
Mainstem	305538	100-year	12070.00	791.32	800.011	800.01	803.71	0.030118	15.61	811.87	114.53	0.98
Mainstem	304925	100-year	12070.00	783.64	795.900		796.73	0.004404	7.44	1720.98	180.21	0.40
Mainstem	304366	100-year	12070.00	782.00	793.549		794.33	0.004208	7.20	1789.83	189.34	0.39
Mainstem	303706	100-year	12070.00	776.97	791.215		791.93	0.003096	6.82	1848.12	171.10	0.34
Mainstem	303637	100-year	12070.00	777.26	789.595		791.46	0.010072	11.34	1202.43	141.80	0.60
Mainstem	303405	100-year	12070.00	775.70	790.245		790.46	0.000920	3.82	3402.15	297.66	0.19
Mainstem	302639	100-year	12070.00	773.65	788.676		789.32	0.002577	6.54	2001.40	187.92	0.31
Mainstem	301942	100-year	12070.00	772.59	781.717	781.16	784.93	0.024915	14.43	854.87	115.01	0.89
Mainstem	301509	100-year	12070.00	769.66	781.441		781.80	0.002210	5.04	2763.68	357.04	0.28
Mainstem	301066	100-year	12070.00	769.67	779.800		780.42	0.004251	6.57	2042.05	258.21	0.38
Mainstem	300464	100-year	12070.00	765.34	778.197	773.78	778.51	0.002308	5.47	3359.82	544.25	0.29
Mainstem	299856	100-year	12070.00	762.99	775.067		776.27	0.006154	8.98	1466.87	202.61	0.47
Mainstem	298758	100-year	12070.00	757.10	768.206		769.27	0.006533	8.44	1549.13	187.36	0.48

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	297428	100-year	12070.00	746.98	758.169		759.49	0.008292	9.51	1443.72	203.37	0.53
Mainstem	296831	100-year	12070.00	743.96	752.983		754.21	0.009358	9.04	1427.86	208.29	0.55
Mainstem	296245	100-year	12070.00	738.96	748.764	745.53	749.58	0.006497	7.28	1705.89	243.63	0.45
Mainstem	295786	100-year	12070.00	731.50	741.825	741.72	744.47	0.021026	14.20	1121.09	210.58	0.84
Mainstem	295136	100-year	12070.00	723.88	736.127		737.19	0.006248	8.40	1528.13	176.55	0.46
Mainstem	294624	100-year	12070.00	720.59	729.446	728.97	731.76	0.020782	12.71	1107.79	211.44	0.81
Mainstem	293890	100-year	12070.00	710.60	721.892		723.02	0.007170	8.56	1462.54	178.78	0.49
Mainstem	293679	100-year	12070.00	709.17	721.871		722.16	0.001539	4.36	2813.52	275.24	0.23
Mainstem	293161	100-year	12070.00	709.91	718.406		720.18	0.014784	10.75	1146.15	157.43	0.68
Mainstem	292459	100-year	12070.00	700.61	710.822	707.99	712.10	0.008993	9.13	1369.19	175.45	0.54
Mainstem	291699	100-year	12070.00	688.49	699.460	699.01	702.09	0.020128	13.50	1051.27	189.19	0.81
Mainstem	290949	100-year	12070.00	680.04	693.470		694.59	0.005449	8.55	1476.88	148.13	0.44
Mainstem	290426	100-year	12070.00	679.06	687.583		689.74	0.018004	11.89	1052.98	150.01	0.76
Mainstem	289597	100-year	12070.00	665.63	674.755	673.12	676.47	0.013969	10.78	1215.26	174.77	0.67
Mainstem	288827	100-year	12070.00	649.56	658.717	658.72	661.67	0.027330	14.38	982.86	187.74	0.92
Mainstem	287887	100-year	12070.00	641.14	653.812		654.38	0.003075	6.20	2106.10	231.41	0.33
Mainstem	287000	100-year	12070.00	636.25	648.428		650.01	0.008608	10.32	1308.83	166.55	0.55
Mainstem	286229	100-year	12070.00	629.18	636.549	636.23	639.11	0.026696	13.02	981.31	172.54	0.90
Mainstem	285532	100-year	12070.00	615.47	628.145		629.61	0.007825	9.76	1278.19	132.47	0.52
Mainstem	284719	100-year	12070.00	609.66	622.063	618.48	623.42	0.007374	9.63	1402.28	165.23	0.51
Mainstem	284053	100-year	12070.00	602.27	611.416	611.42	614.62	0.028345	14.77	903.96	149.58	0.95
Mainstem	283589	100-year	12070.00	597.58	608.089		608.80	0.005189	6.95	1904.61	256.53	0.41
Mainstem	282818	100-year	12070.00	591.35	601.138		602.77	0.012665	10.38	1229.02	173.52	0.64
Mainstem	282353	100-year	12070.00	586.31	594.937		596.53	0.014180	10.34	1251.52	192.36	0.67
Mainstem	281593	100-year	12070.00	569.44	580.870	579.82	583.89	0.019202	14.14	911.50	112.62	0.79
Mainstem	280949	100-year	12070.00	560.42	570.112		572.30	0.016435	11.95	1045.85	143.15	0.73
Mainstem	280125	100-year	12070.00	552.35	565.757		566.48	0.003463	6.86	1792.78	164.22	0.35
Mainstem	279386	100-year	12070.00	549.44	559.352	557.82	561.63	0.015518	12.37	1072.76	149.59	0.72
Mainstem	278583	100-year	12070.00	540.98	551.383		552.65	0.007952	9.11	1383.90	161.45	0.52
Mainstem	278161	100-year	12070.00	536.98	547.612		549.07	0.008869	9.86	1322.60	162.32	0.55
Mainstem	277707	100-year	12070.00	530.49	541.716		543.98	0.014068	12.66	1119.27	150.24	0.70
Mainstem	277105	100-year	12070.00	524.29	536.522	533.35	537.73	0.007253	9.42	1519.31	180.48	0.50
Mainstem	276619	100-year	12070.00	518.92	528.361	528.36	531.43	0.026599	14.81	967.09	168.81	0.92
Mainstem	275943	100-year	12070.00	510.39	525.216		525.77	0.002309	5.99	2080.70	178.73	0.29
Mainstem	275458	100-year	12070.00	510.10	519.391	519.22	522.81	0.026460	15.20	867.61	125.94	0.93
Mainstem	274565	100-year	12070.00	498.10	511.066		512.19	0.006108	8.65	1499.12	170.53	0.46
Mainstem	273800	100-year	12070.00	494.39	504.909		506.38	0.009582	9.82	1277.78	153.29	0.57
Mainstem	272923	100-year	12070.00	485.76	498.181		499.41	0.006555	8.93	1398.22	146.11	0.48
Mainstem	272342	100-year	12070.00	482.77	494.833		495.88	0.005524	8.29	1510.44	151.21	0.44
Mainstem	271909	100-year	12070.00	477.04	487.646	487.65	490.99	0.028906	15.16	890.14	144.34	0.96
Mainstem	271535	100-year	12070.00	471.21	483.164		484.67	0.008917	10.04	1314.84	163.62	0.56
Mainstem	271038	100-year	12070.00	468.32	479.230		480.29	0.008151	8.28	1480.24	190.74	0.51
Mainstem	270579	100-year	12070.00	465.53	474.996		476.26	0.009565	9.12	1375.28	175.21	0.56
Mainstem	270114	100-year	12070.00	458.56	470.587		472.06	0.008450	9.82	1290.38	146.48	0.54
Mainstem	269729	100-year	12070.00	456.27	467.510	464.17	468.85	0.007928	9.41	1352.20	152.08	0.52
Mainstem	269264	100-year	12070.00	453.51	460.462	459.90	462.73	0.024554	12.17	1020.19	175.19	0.86
Mainstem	268752	100-year	12070.00	442.46	458.326	452.87	458.89	0.002922	6.90	2085.43	214.03	0.33
Mainstem	268388	100-year	12070.00	433.14	456.731		457.80	0.002724	8.40	1551.40	93.66	0.33
Mainstem	268182	100-year	12070.00	432.18	456.673		457.24	0.001494	6.32	2211.40	142.19	0.25
Mainstem	267854	100-year	12070.00	431.80	448.752	448.75	454.43	0.025458	19.67	694.09	68.17	0.94
Mainstem	267516	100-year	12070.00	431.01	442.911		444.44	0.009096	10.00	1252.82	140.22	0.56
Mainstem	267115	100-year	12070.00	427.61	439.383	436.05	440.93	0.008610	10.07	1260.38	140.32	0.55
Mainstem	266561	100-year	12070.00	422.26	432.850		434.95	0.012960	11.79	1090.98	130.83	0.67
Mainstem	266133	100-year	12070.00	413.45	430.655		431.70	0.003773	8.33	1551.61	123.69	0.38
Mainstem	265668	100-year	12070.00	409.35	425.867		428.66	0.011994	13.47	927.15	76.76	0.64
Mainstem	265362	100-year	12070.00	407.68	424.500		425.91	0.005156	9.62	1331.12	107.67	0.44
Mainstem	265014	100-year	12070.00	408.22	420.229	418.43	422.89	0.015715	13.17	945.80	103.14	0.73
Mainstem	264370	100-year	12070.00	402.08	414.392		415.80	0.007401	9.56	1295.96	129.84	0.51
Mainstem	263657	100-year	12070.00	396.62	409.847		411.25	0.005610	9.58	1315.88	126.24	0.49
Mainstem	262743	100-year	12070.00	393.90	405.456		406.45	0.004672	8.09	1566.27	171.16	0.45
Mainstem	262221	100-year	12070.00	390.55	401.088		402.89	0.010315	11.37	1320.28	215.55	0.66
Mainstem	261645	100-year	12070.00	385.29	399.177		399.87	0.002636	6.73	1873.58	174.26	0.34
Mainstem	261318	100-year	12070.00	386.42	397.572		398.65	0.005340	8.50	1531.86	176.58	0.48
Mainstem	260996	100-year	12070.00	384.64	393.285	392.31	395.68	0.016836	12.45	990.21	146.20	0.81
Mainstem	260478	100-year	12070.00	379.66	388.620		389.71	0.007560	8.77	1598.88	251.26	0.55
Mainstem	260040	100-year	12070.00	375.12	386.626		387.34	0.003731	6.90	1870.71	224.31	0.40
Mainstem	259570	100-year	12070.00	371.15	384.932		385.65	0.003417	7.03	1945.48	242.50	0.38
Mainstem	259259	100-year	12070.00	371.04	383.254		384.31	0.005436	8.51	1624.95	226.38	0.48
Mainstem	258884	100-year	12070.00	367.97	381.564		382.40	0.004446	8.05	1960.19	267.38	0.44
Mainstem	258224	100-year	12070.00	363.49	376.865	374.87	378.41	0.008369	10.87	1495.34	398.32	0.60
Mainstem	257574	100-year	12070.00	360.44	373.547		374.39	0.004329	7.44	1699.53	197.83	0.43
Mainstem	256824	100-year	12070.00	356.90	367.277	366.22	369.17	0.012293	11.68	1278.47	221.03	0.71
Mainstem	256312	100-year	12070.00	353.50	362.921		364.18	0.007377	9.21	1432.28	192.17	0.55
Mainstem	255895	100-year	12070.00	348.37	360.596		361.62	0.004984	8.38	1644.12	212.40	0.46
Mainstem	255272	100-year	12070.00	345.52	357.965	354.57	358.69	0.004232	7.78	2116.12	280.47	0.43



HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	254850	100-year	12070.00	341.44	355.259		356.59	0.005743	9.46	1489.67	231.91	0.50
Mainstem	254464	100-year	12070.00	341.93	353.634		354.58	0.004281	7.88	1658.78	213.65	0.43
Mainstem	253778	100-year	12070.00	338.75	348.648		350.22	0.009926	10.55	1361.34	214.55	0.64
Mainstem	253398	100-year	12070.00	336.30	346.215		347.18	0.005912	7.91	1563.32	207.09	0.49
Mainstem	253039	100-year	12070.00	333.97	343.136		344.45	0.009721	9.40	1383.60	213.61	0.61
Mainstem	252732	100-year	12070.00	328.80	341.133		342.29	0.005129	8.77	1480.36	162.90	0.47
Mainstem	252004	100-year	12070.00	322.69	332.915	332.29	335.75	0.018233	13.66	941.34	141.68	0.85
Mainstem	251497	100-year	12070.00	320.14	329.283		330.23	0.006114	7.86	1597.22	222.87	0.49
Mainstem	251133	100-year	12070.00	317.25	325.758		327.26	0.010703	9.92	1278.99	202.34	0.64
Mainstem	250726	100-year	12070.00	313.97	321.988		323.16	0.009133	8.76	1431.44	228.49	0.59
Mainstem	250261	100-year	12070.00	307.64	318.064		319.37	0.007351	9.26	1363.07	170.31	0.55
Mainstem	249607	100-year	12070.00	304.74	314.829		315.58	0.004285	7.08	1823.79	226.43	0.42
Mainstem	248873	100-year	12070.00	297.75	311.040		312.19	0.004853	8.67	1450.37	144.27	0.46
Mainstem	248382	100-year	12070.00	297.88	308.000		309.30	0.007374	9.44	1429.03	186.55	0.55
Mainstem	247870	100-year	12070.00	294.56	305.234		306.12	0.004905	8.18	1933.41	305.78	0.46
Mainstem	247099	100-year	12070.00	285.52	298.233	296.66	300.41	0.011834	12.19	1114.29	147.82	0.69
Mainstem	246402	100-year	12070.00	282.89	293.417		294.53	0.005697	8.67	1525.03	184.45	0.49
Mainstem	245573	100-year	12070.00	275.96	289.228		290.30	0.004600	8.61	1603.05	178.32	0.45
Mainstem	244897	100-year	12070.00	275.58	284.938		286.27	0.007951	9.53	1411.11	194.22	0.57
Mainstem	244163	100-year	12070.00	269.05	280.839		281.81	0.004602	8.01	1599.65	177.06	0.44
Mainstem	243661	100-year	12070.00	266.28	276.903		278.60	0.008977	10.59	1207.21	145.21	0.61
Mainstem	242875	100-year	12070.00	260.71	273.333		274.16	0.003512	7.35	1714.09	175.66	0.39
Mainstem	242072	100-year	12070.00	256.43	270.050		271.09	0.004108	8.33	1601.50	177.37	0.43
Mainstem	241597	100-year	12070.00	256.23	267.336		268.64	0.006434	9.44	1424.46	172.02	0.53
Mainstem	240963	100-year	12070.00	253.60	263.904		264.89	0.005206	7.98	1539.88	176.99	0.46
Mainstem	240108	100-year	12070.00	249.71	258.731		259.73	0.007066	8.14	1579.73	239.82	0.52
Mainstem	239649	100-year	12070.00	246.12	256.639		257.27	0.003901	6.56	2073.54	314.40	0.40
Mainstem	239010	100-year	12070.00	243.44	253.756		254.56	0.004540	7.37	1777.53	230.63	0.43
Mainstem	238123	100-year	12070.00	240.02	250.266		250.98	0.003568	6.89	1856.06	209.21	0.39
Mainstem	237109	100-year	12070.00	232.64	245.410		246.57	0.005373	9.21	1633.27	206.56	0.49
Mainstem	236227	100-year	12070.00	228.82	240.601	236.80	241.79	0.005478	8.83	1438.13	216.49	0.49
Mainstem	235129	100-year	12070.00	224.81	234.145		235.16	0.006602	8.20	1579.62	237.24	0.51
Mainstem	234105	100-year	12070.00	220.18	230.339	226.37	230.69	0.002839	5.59	2985.78	481.01	0.34
Mainstem	232663	100-year	12070.00	217.31	226.120	224.04	226.44	0.003552	5.83	3965.96	1349.89	0.37
Mainstem	231739	100-year	12070.00	211.41	223.065	221.22	223.42	0.003171	6.23	3347.43	853.02	0.36
Mainstem	230303	100-year	12070.00	205.60	218.097	216.90	218.65	0.004088	7.26	3198.28	1257.86	0.41
Mainstem	229141	100-year	12070.00	201.84	214.051	209.93	214.63	0.003032	6.71	2517.87	1003.63	0.36
Mainstem	227869	100-year	12070.00	198.88	209.424	206.24	210.12	0.004173	7.28	2222.18	1124.27	0.42
Mainstem	226549	100-year	12070.00	194.48	205.617	200.96	206.02	0.002273	5.49	2981.61	746.45	0.31
Mainstem	225329	100-year	12070.00	181.71	202.307	195.81	203.00	0.002667	6.92	2051.48	550.12	0.34
Mainstem	224659	100-year	12070.00	188.52	200.329	195.85	200.97	0.003366	6.51	1910.49	578.36	0.37
Mainstem	224622		Bridge									
Mainstem	224574	100-year	12070.00	188.52	200.000	195.88	200.68	0.003722	6.70	1877.17	727.25	0.39
Mainstem	223545	100-year	12070.00	186.59	197.266	193.67	197.59	0.002318	5.43	4240.18	1370.21	0.31
Mainstem	222367	100-year	12070.00	181.37	192.845	188.73	193.85	0.004651	8.19	1608.39	194.04	0.45
Mainstem	221290	100-year	12070.00	177.50	188.519	184.18	189.27	0.003799	7.03	1868.20	255.49	0.40
Mainstem	219891	100-year	12070.00	168.42	181.526		182.79	0.005696	9.24	1494.61	180.24	0.50
Mainstem	218555	100-year	12070.00	163.48	176.785		177.40	0.002820	6.46	2154.68	356.79	0.34
Mainstem	217599	100-year	12070.00	161.68	173.549	169.05	174.27	0.003827	6.95	1849.02	217.33	0.39
Mainstem	217557		Bridge									
Mainstem	217504	100-year	12070.00	161.36	172.724	168.95	173.54	0.004869	7.33	1746.18	237.66	0.43
Mainstem	216549	100-year	12070.00	157.38	169.604	165.02	169.99	0.002746	5.99	2710.73	452.66	0.32
Mainstem	215223	100-year	12070.00	152.39	164.957	161.44	165.58	0.004204	7.19	2459.82	685.50	0.39
Mainstem	213972	100-year	12070.00	147.03	160.472	155.56	161.07	0.003112	6.50	2176.28	1048.73	0.35
Mainstem	213418	100-year	12250.00	145.69	158.376	154.95	159.04	0.004287	7.39	2580.59	876.60	0.40
Mainstem	212061	100-year	12250.00	141.43	153.476	148.84	154.04	0.003185	6.10	2245.59	711.35	0.35
Mainstem	211121	100-year	12250.00	137.00	149.456	145.12	150.39	0.004729	8.12	1925.96	839.73	0.43
Mainstem	210762	100-year	12250.00	136.98	147.843	144.59	148.58	0.004969	7.49	2222.22	583.62	0.44
Mainstem	209679	100-year	12250.00	134.77	144.763	142.12	144.96	0.002292	4.66	4796.83	1961.26	0.29
Mainstem	208391	100-year	11745.00	132.45	139.830	138.46	140.16	0.007120	6.35	2972.61	1747.00	0.49
Mainstem	207092	100-year	11745.00	127.81	135.048	133.50	135.17	0.004285	4.53	4779.31	2721.54	0.36
Mainstem	205667	100-year	11745.00	127.16	134.251	132.00	134.28	0.000866	1.99	9026.69	3135.33	0.17
Mainstem	203988	100-year	11745.00	121.47	131.347	130.01	131.94	0.005772	7.62	2622.79	1609.28	0.47
Mainstem	202884	100-year	11745.00	116.15	127.771	124.35	128.00	0.002219	4.48	4448.79	2172.64	0.29
Mainstem	201332	100-year	11745.00	112.29	123.116	121.13	123.48	0.004235	6.14	2907.61	1807.59	0.40
Mainstem	200508	100-year	11745.00	111.53	121.373	118.95	121.50	0.002104	4.01	4419.78	1945.55	0.28
Mainstem	198924	100-year	12250.00	107.24	119.020	115.42	119.20	0.001417	4.33	4926.20	1359.44	0.24
Mainstem	198063	100-year	12250.00	100.65	116.664	113.53	117.32	0.004169	7.68	2979.00	902.62	0.40
Mainstem	196976	100-year	12250.00	104.00	115.344	111.07	115.43	0.000818	3.27	7375.39	1729.20	0.18
Mainstem	196242	100-year	12250.00	95.52	113.929	109.74	114.41	0.002655	6.43	3034.64	1463.12	0.33
Mainstem	195101	100-year	12250.00	100.46	110.965	108.75	111.28	0.002830	5.61	3814.01	1660.58	0.33
Mainstem	193966	100-year	12250.00	95.52	108.902	105.06	109.01	0.001392	3.00	5402.45	2313.85	0.20
Mainstem	192952	100-year	12250.00	97.96	107.585	105.00	107.70	0.001259	3.75	6251.00	2880.03	0.22
Mainstem	192134	100-year	12250.00	89.06	107.033	102.55	107.10	0.000628	3.06	8648.37	2646.91	0.16
Mainstem	191358	100-year	12250.00	93.92	105.007	100.68	105.66	0.003520	6.75	2184.30	1901.48	0.38

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W. S. Elev (ft)	Crit W. S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	190143	100-year	12250.00	89.64	102.017	98.47	102.34	0.002054	5.61	3410.13	1688.88	0.30
Mainstem	188966	100-year	12250.00	86.96	99.655	96.40	99.95	0.002050	5.56	4084.92	1708.87	0.32
Mainstem	188448	100-year	12250.00	86.65	98.675	94.67	98.85	0.001354	4.48	4662.24	2056.36	0.26
Mainstem	188031	100-year	12250.00	82.88	97.910	95.48	98.14	0.001592	5.06	4823.32	2419.64	0.28
Mainstem	186759	100-year	12250.00	83.18	95.956	90.88	96.32	0.001593	5.50	3748.11	2524.03	0.29
Mainstem	185302	100-year	12250.00	80.45	93.569	90.28	93.86	0.001757	5.71	3921.46	1913.77	0.30
Mainstem	184214	100-year	12250.00	80.91	91.751	87.84	92.03	0.001608	5.12	3873.37	2167.26	0.29
Mainstem	182831	100-year	12250.00	78.48	89.392	85.97	89.68	0.001846	5.35	3887.89	1466.85	0.31
Mainstem	182783		Bridge									
Mainstem	182730	100-year	12250.00	78.48	88.893	86.34	89.48	0.003379	6.94	2560.23	882.98	0.41
Mainstem	181817	100-year	12250.00	73.04	87.278	83.76	87.47	0.001343	4.68	5214.98	2926.81	0.26
Mainstem	181104	100-year	12250.00	75.65	87.174	84.43	87.19	0.000140	1.38	15476.67	3094.33	0.08
Mainstem	180264	100-year	12250.00	73.64	83.815	83.82	86.61	0.020804	13.45	947.38	2228.44	0.95
Mainstem	178865	100-year	12250.00	72.01	83.436	80.83	83.49	0.000484	2.67	8012.23	2477.95	0.15
Mainstem	177545	100-year	12250.00	68.87	83.263	78.43	83.27	0.000065	1.07	20064.81	3110.85	0.06
Mainstem	176268	100-year	12250.00	66.87	82.343	75.55	82.97	0.001797	6.55	2083.57	477.96	0.32
Mainstem	176225		Bridge									
Mainstem	176178	100-year	12250.00	66.87	82.159	75.70	82.79	0.001872	6.55	2107.52	1033.37	0.32
Mainstem	176056	100-year	12250.00	66.87	81.663		82.50	0.002463	7.35	1928.72	1029.86	0.37
Mainstem	175940	100-year	12810.00	67.00	81.855	73.84	82.18	0.000928	4.67	2919.37	334.32	0.23
Mainstem	175919		Bridge									
Mainstem	175893	100-year	12810.00	65.37	81.639	73.69	82.03	0.001090	5.10	2755.88	474.60	0.25
Mainstem	175708	100-year	12810.00	66.02	81.216	74.16	81.77	0.001606	6.14	2295.56	207.44	0.30
Mainstem	175660		Bridge									
Mainstem	175555	100-year	12810.00	67.32	80.853	74.75	81.45	0.001923	6.28	2198.09	223.19	0.32
Mainstem	174462	100-year	12810.00	67.00	78.942	74.68	79.27	0.001915	5.46	4650.60	1590.64	0.31
Mainstem	173353	100-year	12810.00	65.06	77.129	74.00	77.35	0.001505	4.98	5484.51	1547.82	0.28
Mainstem	172540	100-year	12810.00	57.34	76.384	71.48	76.54	0.001062	4.27	6616.89	1987.88	0.22
Mainstem	171743	100-year	12810.00	64.05	75.999	69.04	76.06	0.000312	2.54	9129.88	1957.65	0.13
Mainstem	171209	100-year	12810.00	53.16	75.685	64.58	75.87	0.000481	4.02	6466.02	1505.46	0.17
Mainstem	170877	100-year	12810.00	49.99	75.497	63.07	75.71	0.000493	4.13	4361.05	1299.14	0.17
Mainstem	170697	100-year	12810.00	54.70	75.243	63.91	75.59	0.000669	4.87	3446.24	1160.38	0.20
Mainstem	170280	100-year	12810.00	51.75	75.108	62.84	75.31	0.000514	4.30	6951.90	1316.34	0.17
Mainstem	169351	100-year	12810.00	52.66	74.952	62.61	75.01	0.000181	2.56	12687.41	1793.97	0.11
Mainstem	168448	100-year	12810.00	46.54	74.550	61.44	74.75	0.000477	4.18	6679.62	1028.11	0.16
Mainstem	167556	100-year	12810.00	51.17	74.068	61.84	74.31	0.000500	4.23	4626.25	623.30	0.17
Mainstem	166774	100-year	12810.00	51.93	73.509		73.85	0.000671	4.75	3267.40	353.71	0.20
Mainstem	166008	100-year	12810.00	53.48	72.968	62.02	73.32	0.000711	4.87	3252.69	351.64	0.21
Mainstem	165195	100-year	12810.00	50.67	72.104		72.59	0.001089	5.90	2965.47	337.29	0.25
Mainstem	165137	100-year	12810.00	52.01	72.092		72.52	0.000891	5.42	3063.58	360.75	0.23
Mainstem	164150	100-year	12810.00	48.79	71.217	59.11	71.68	0.000796	5.50	2356.26	434.04	0.22
Mainstem	164108		Bridge									
Mainstem	164060	100-year	12810.00	48.79	70.969	58.97	71.41	0.000743	5.34	2397.29	236.14	0.22
Mainstem	163506	100-year	12810.00	53.45	70.318	61.62	70.86	0.001339	6.08	2454.67	245.67	0.27
Mainstem	162645	100-year	12810.00	50.09	69.688	61.35	69.94	0.000742	4.63	3947.47	532.23	0.20
Mainstem	161505	100-year	12810.00	45.86	68.656	58.36	69.01	0.000890	5.40	4432.59	655.12	0.22
Mainstem	160391	100-year	12810.00	44.32	67.353	56.88	67.86	0.001190	6.09	2821.67	415.92	0.25
Mainstem	159509	100-year	12810.00	51.51	66.578	57.94	66.91	0.000881	4.73	3159.70	436.15	0.22
Mainstem	158822	100-year	12810.00	48.13	66.273	56.44	66.43	0.000454	3.50	5256.71	679.93	0.16
Mainstem	158078	100-year	12810.00	41.74	65.342	54.25	65.89	0.001140	6.20	2780.64	472.27	0.25
Mainstem	157777	100-year	12810.00	49.91	64.998	57.42	65.51	0.001323	6.04	3684.54	629.83	0.28
Mainstem	157576	100-year	12810.00	49.71	64.738	57.84	65.22	0.001413	6.07	3244.83	681.37	0.29
Mainstem	157386	100-year	12810.00	50.16	64.393	57.72	64.94	0.001569	6.36	2988.04	738.80	0.31
Mainstem	157180	100-year	12810.00	46.75	64.068	55.38	64.64	0.001242	6.27	2910.17	506.49	0.28
Mainstem	156953	100-year	12810.00	43.06	63.845	53.62	64.38	0.001017	6.08	3456.07	819.54	0.25
Mainstem	156895	100-year	12810.00	41.91	63.817	52.91	64.31	0.000988	5.84	2770.95	329.38	0.24
Mainstem	156879		Bridge									
Mainstem	156869	100-year	12810.00	41.91	63.763	52.92	64.21	0.000916	5.57	2859.03	330.41	0.23
Mainstem	156768	100-year	12810.00	41.40	63.587	53.43	64.11	0.001028	6.14	3693.86	793.91	0.25
Mainstem	156610	100-year	12810.00	37.02	63.507	51.75	63.94	0.000787	5.60	3704.07	517.71	0.22
Mainstem	156362	100-year	12810.00	45.47	63.038	54.78	63.67	0.001395	6.56	2743.96	458.42	0.29
Mainstem	156161	100-year	12810.00	45.41	62.843	54.07	63.38	0.001184	6.03	2803.54	436.20	0.27
Mainstem	155992	100-year	12810.00	45.99	62.655	53.93	63.18	0.001156	5.96	2773.35	386.97	0.27
Mainstem	155771	100-year	12810.00	46.02	62.414	54.14	62.92	0.001183	5.92	3299.51	1408.75	0.27
Mainstem	155570	100-year	12810.00	46.20	62.159	53.87	62.68	0.001202	5.95	2847.52	1494.70	0.27
Mainstem	155390	100-year	12810.00	43.58	61.993	53.36	62.46	0.001071	5.91	2971.74	1436.92	0.26
Mainstem	155184	100-year	12810.00	43.89	61.821	52.74	62.23	0.000921	5.67	3212.94	1533.53	0.24
Mainstem	154947	100-year	12810.00	39.79	61.645	50.59	62.03	0.000742	5.37	3711.92	1518.44	0.22
Mainstem	154746	100-year	12810.00	41.84	61.619	49.93	61.87	0.000489	4.27	4282.64	1625.11	0.18
Mainstem	154577	100-year	12810.00	41.92	61.464	50.72	61.77	0.000636	4.79	4082.69	1375.39	0.20
Mainstem	154350	100-year	12810.00	40.01	61.379	51.40	61.61	0.000575	4.41	4985.80	1582.03	0.19
Mainstem	154155	100-year	12810.00	39.19	61.161	51.09	61.48	0.000730	5.27	4645.04	1585.81	0.22
Mainstem	153954	100-year	12810.00	42.67	61.090	51.51	61.32	0.000590	4.44	4892.86	1609.99	0.19
Mainstem	153743	100-year	12810.00	42.59	60.941	51.32	61.19	0.000626	4.61	5394.69	1505.21	0.20
Mainstem	153548	100-year	12810.00	43.96	60.880	50.76	61.07	0.000471	3.96	6034.59	1476.17	0.17

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	153347	100-year	12810.00	41.96	60.624	50.30	60.94	0.000690	5.03	5645.15	1450.72	0.21
Mainstem	153136	100-year	12810.00	36.92	60.375	48.56	60.78	0.000737	5.55	4634.33	587.76	0.22
Mainstem	152972	100-year	12810.00	32.11	60.257	47.70	60.67	0.000721	5.54	5157.59	1643.25	0.21
Mainstem	152740	100-year	12810.00	40.47	60.069	49.44	60.49	0.000820	5.59	4269.67	499.59	0.23
Mainstem	152587	100-year	12810.00	41.27	60.010	49.16	60.35	0.000654	4.84	3562.84	445.73	0.21
Mainstem	152328	100-year	12810.00	38.77	59.675	48.90	60.14	0.000866	5.93	3644.75	385.65	0.24
Mainstem	152117	100-year	12810.00	38.21	59.652	48.63	59.93	0.000629	4.96	5052.10	391.74	0.20
Mainstem	151927	100-year	12810.00	36.91	59.512	48.73	59.81	0.000657	5.16	5165.87	428.03	0.21
Mainstem	151726	100-year	12810.00	37.04	59.429	48.48	59.67	0.000543	4.70	6008.85	581.18	0.19
Mainstem	151531	100-year	12810.00	37.91	59.398	47.72	59.55	0.000381	3.92	7952.81	1225.15	0.16
Mainstem	151351	100-year	12810.00	39.90	59.336	47.74	59.48	0.000381	3.81	7494.50	572.19	0.16
Mainstem	151108	100-year	12810.00	37.92	59.118	48.11	59.36	0.000533	4.65	5912.88	774.57	0.19
Mainstem	150913	100-year	12810.00	37.45	58.752	47.35	59.22	0.000826	5.75	3503.35	654.67	0.23
Mainstem	150718	100-year	12810.00	36.75	58.641	47.25	59.05	0.000747	5.53	3869.52	646.20	0.22
Mainstem	150533	100-year	12810.00	36.08	58.526	47.06	58.90	0.000723	5.43	4658.37	699.21	0.22
Mainstem	150337	100-year	12810.00	36.43	58.319	47.01	58.75	0.000792	5.65	4268.78	937.42	0.23
Mainstem	150116	100-year	12810.00	38.91	58.148	47.44	58.57	0.000786	5.33	2915.73	542.44	0.23
Mainstem	149931	100-year	12810.00	36.59	57.911	46.61	58.41	0.000849	5.79	2632.45	561.25	0.24
Mainstem	149714	100-year	12810.00	37.99	57.811	45.97	58.22	0.000689	5.20	3025.12	612.52	0.21
Mainstem	149487	100-year	12810.00	39.95	57.710	46.65	58.05	0.000636	4.78	3663.18	480.10	0.20
Mainstem	149318	100-year	12810.00	37.91	57.523	46.37	57.93	0.000726	5.22	3235.03	397.86	0.22
Mainstem	149118	100-year	12810.00	35.55	57.349	46.04	57.78	0.000762	5.39	3135.19	395.55	0.22
Mainstem	148917	100-year	12810.00	36.41	57.259	45.33	57.62	0.000620	4.95	3283.31	560.26	0.20
Mainstem	148716	100-year	12810.00	35.37	57.061	44.95	57.48	0.000707	5.46	3439.03	650.46	0.22
Mainstem	148389	100-year	12810.00	35.33	56.779	44.76	57.24	0.000750	5.59	3568.27	548.66	0.22
Mainstem	148115	100-year	12810.00	34.85	56.823	43.99	57.02	0.000379	4.01	6836.39	885.77	0.16
Mainstem	147724	100-year	12810.00	32.96	56.726	44.50	56.86	0.000332	3.77	9793.64	1136.44	0.15
Mainstem	147523	100-year	12810.00	33.85	56.650	44.27	56.79	0.000347	3.90	9954.18	1192.70	0.15
Mainstem	147323	100-year	12810.00	34.82	56.591	44.18	56.73	0.000297	3.45	7530.92	669.88	0.14
Mainstem	147127	100-year	12810.00	33.61	56.555	44.19	56.67	0.000277	3.38	6266.39	776.28	0.14
Mainstem	146932	100-year	12810.00	31.45	56.346	42.68	56.59	0.000386	4.04	4000.60	479.32	0.16
Mainstem	146826	100-year	12810.00	33.81	56.137	44.27	56.52	0.000684	5.42	3905.99	547.29	0.21
Mainstem	146678	100-year	12810.00	34.71	56.131	42.94	56.41	0.000443	4.32	3937.15	350.11	0.17
Mainstem	146509	100-year	12810.00	34.24	55.946	43.83	56.31	0.000617	4.98	3212.28	276.21	0.20
Mainstem	146356	100-year	12810.00	32.88	55.869	42.77	56.22	0.000545	4.79	3108.69	334.69	0.19
Mainstem	146219	100-year	12810.00	29.15	55.409	42.92	56.08	0.001020	6.70	2242.69	300.25	0.26
Mainstem	146193		Bridge									
Mainstem	146166	100-year	12810.00	29.97	55.323	43.49	56.02	0.001087	6.86	2251.02	316.63	0.27
Mainstem	146013	100-year	12810.00	27.23	55.305	41.37	55.84	0.000749	5.95	2581.92	311.04	0.22
Mainstem	145818	100-year	12810.00	30.10	55.195	41.97	55.68	0.000730	5.78	2570.45	189.33	0.22
Mainstem	145401	100-year	12810.00	33.69	54.964	42.06	55.37	0.000636	5.22	2791.07	205.95	0.21
Mainstem	145168	100-year	12810.00	33.03	54.908	41.34	55.21	0.000479	4.46	3451.40	287.30	0.18
Mainstem	144957	100-year	12810.00	32.01	54.952	41.01	55.09	0.000243	3.10	5754.84	566.60	0.13
Mainstem	144741	100-year	12810.00	30.43	54.848	40.77	55.03	0.000321	3.81	6709.23	588.99	0.15
Mainstem	144614	100-year	12810.00	27.56	54.759	39.68	54.98	0.000387	4.32	6643.97	606.66	0.16
Mainstem	144461	100-year	12810.00	32.44	54.752	40.86	54.91	0.000298	3.58	6909.22	653.43	0.14
Mainstem	144308	100-year	12810.00	32.63	54.735	41.50	54.86	0.000263	3.11	7095.64	543.85	0.13
Mainstem	144149	100-year	12810.00	31.85	54.678	39.95	54.82	0.000233	3.21	6208.36	436.80	0.13
Mainstem	143964	100-year	12810.00	27.10	54.380	39.19	54.73	0.000501	4.84	3206.22	319.50	0.18
Mainstem	143716	100-year	12810.00	32.09	54.139	41.54	54.58	0.000699	5.42	2914.10	299.86	0.21
Mainstem	143025	100-year	12810.00	28.42	53.950	38.99	54.18	0.000356	4.08	4541.93	503.58	0.15
Mainstem	141868	100-year	12810.00	29.60	53.413	39.72	53.70	0.000478	4.55	3910.43	411.66	0.18
Mainstem	140638	100-year	12810.00	29.91	52.847	38.45	53.14	0.000444	4.55	3862.21	472.93	0.17
Mainstem	139281	100-year	12810.00	28.53	52.150	37.59	52.48	0.000510	4.77	3184.06	354.43	0.18
Mainstem	138563	100-year	12810.00	28.86	52.033	35.64	52.19	0.000243	3.25	4681.71	573.68	0.12
Mainstem	137766	100-year	12810.00	26.76	51.609	35.47	51.92	0.000409	4.60	3392.34	856.77	0.17
Mainstem	137280	100-year	12810.00	18.66	51.313	35.76	51.68	0.000578	5.08	3139.97	895.22	0.18
Mainstem	137248	100-year	12810.00	18.94	51.162	35.15	51.65	0.000543	5.88	2944.43	878.79	0.21
Mainstem	136499	100-year	12810.00	24.02	50.866	35.15	51.26	0.000432	5.14	2837.21	443.84	0.19
Mainstem	134904	100-year	12810.00	25.62	50.188	34.72	50.59	0.000408	5.24	2959.76	168.62	0.19
Mainstem	134160	100-year	12810.00	24.07	49.913	33.80	50.29	0.000376	5.12	3151.17	330.80	0.18
Mainstem	133262	100-year	12810.00	21.73	49.545	32.63	49.95	0.000391	5.21	3067.28	341.91	0.18
Mainstem	133204		Bridge									
Mainstem	133140	100-year	12810.00	21.73	49.362	32.85	49.88	0.000504	5.99	2873.36	294.19	0.21
Mainstem	132507	100-year	12810.00	21.64	49.025	33.08	49.53	0.000591	5.88	2637.81	154.47	0.21
Mainstem	132465		Bridge									
Mainstem	132417	100-year	12810.00	21.64	49.095	32.17	49.44	0.000347	4.82	3130.83	173.26	0.17
Mainstem	131139	100-year	12810.00	15.96	48.324	30.90	48.87	0.000557	6.12	2633.21	158.50	0.21
Mainstem	130490	100-year	12810.00	20.03	48.033	31.64	48.51	0.000489	5.78	2923.17	194.00	0.20
Mainstem	129777	100-year	12810.00	16.31	47.542	30.51	48.11	0.000619	6.22	2526.61	140.68	0.21
Mainstem	128816	100-year	12810.00	21.35	47.142	31.29	47.57	0.000437	5.39	2899.16	176.05	0.19
Mainstem	128109	100-year	12810.00	19.64	46.658	31.64	47.20	0.000575	6.08	2627.58	186.77	0.22
Mainstem	128082		Bridge									
Mainstem	128056	100-year	12810.00	19.64	46.679	31.47	47.16	0.000492	5.70	2881.15	203.73	0.21
Mainstem	127053	100-year	12810.00	19.06	45.913	31.17	46.54	0.000735	6.58	2479.52	206.98	0.23

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	127037		Bridge									
Mainstem	127016	100-year	12810.00	19.06	45.865	31.29	46.51	0.000766	6.67	2404.73	138.85	0.24
Mainstem	126958	100-year	12810.00	15.14	45.951	28.51	46.42	0.000552	5.66	2767.87	139.07	0.19
Mainstem	126942		Bridge									
Mainstem	126921	100-year	12810.00	15.14	45.864	28.57	46.39	0.000619	5.99	2603.16	134.21	0.20
Mainstem	125796	100-year	12810.00	18.94	45.477	29.79	45.88	0.000305	5.19	3009.67	177.12	0.19
Mainstem	125712		Bridge									
Mainstem	125627	100-year	12810.00	18.94	45.239	30.13	45.80	0.000427	6.17	2678.50	185.24	0.22
Mainstem	124872	100-year	12530.00	12.43	45.050	27.18	45.48	0.000324	5.40	2983.63	275.49	0.18
Mainstem	123953	100-year	12530.00	13.32	44.833	25.86	45.21	0.000246	5.11	3662.77	517.56	0.17
Mainstem	123161	100-year	12530.00	17.94	44.550	28.48	44.98	0.000318	5.34	2844.33	521.73	0.19
Mainstem	122448	100-year	12530.00	18.06	44.474	27.23	44.76	0.000201	4.34	3401.74	215.80	0.16
Mainstem	122412		Bridge									
Mainstem	122375	100-year	12530.00	18.06	44.401	27.68	44.73	0.000236	4.73	3302.76	204.65	0.17
Mainstem	121583	100-year	12530.00	16.81	44.218	26.17	44.54	0.000236	4.68	3314.08	188.97	0.16
Mainstem	120426	100-year	12530.00	15.94	43.887	26.53	44.25	0.000262	4.95	3186.14	206.85	0.17
Mainstem	119666	100-year	12530.00	16.84	43.719	26.66	44.05	0.000245	4.71	3287.33	191.95	0.17
Mainstem	118425	100-year	12530.00	10.95	43.435	23.96	43.75	0.000226	4.70	3180.96	165.61	0.16
Mainstem	117617	100-year	12530.00	15.01	43.218	25.33	43.56	0.000238	4.81	3151.25	177.49	0.17
Mainstem	116487	100-year	12530.00	14.03	43.047	24.30	43.31	0.000174	4.18	3499.22	190.94	0.14
Mainstem	116429		Bridge									
Mainstem	116371	100-year	12530.00	11.57	42.931	24.86	43.28	0.000241	4.80	3098.46	165.76	0.17
Mainstem	115241	100-year	12530.00	11.25	42.574	23.47	42.97	0.000303	5.13	2925.46	150.29	0.17
Mainstem	114465	100-year	12530.00	9.06	42.387	21.85	42.75	0.000244	4.98	3348.88	204.53	0.16
Mainstem	113747	100-year	12530.00	12.07	42.246	23.48	42.56	0.000231	4.63	3362.01	215.59	0.16
Mainstem	113008	100-year	12690.00	11.60	41.974	23.45	42.36	0.000299	5.20	3137.05	185.16	0.17
Mainstem	112401	100-year	12690.00	12.60	41.813	23.74	42.19	0.000272	5.02	3149.86	187.30	0.17
Mainstem	112369		Bridge									
Mainstem	112337	100-year	12690.00	13.63	41.831	24.31	42.16	0.000235	4.66	3308.61	199.82	0.16
Mainstem	112258	100-year	12690.00	14.03	41.835	23.96	42.13	0.000210	4.42	3243.00	172.34	0.15
Mainstem	112242		Bridge									
Mainstem	112226	100-year	12690.00	14.03	41.749	24.58	42.11	0.000256	4.93	3092.57	169.71	0.17
Mainstem	111661	100-year	12690.00	8.64	41.661	20.69	41.96	0.000221	4.55	3687.44	208.10	0.15
Mainstem	111160	100-year	12690.00	10.54	41.453	22.72	41.83	0.000289	5.02	3148.14	186.99	0.17
Mainstem	110959	100-year	12690.00	12.22	41.394	23.12	41.77	0.000261	5.03	3081.56	174.12	0.17
Mainstem	110410	100-year	12690.00	9.05	41.353	20.15	41.63	0.000168	4.26	3480.34	162.01	0.14
Mainstem	109776	100-year	12690.00	6.72	41.243	18.47	41.52	0.000170	4.31	3579.69	165.40	0.14
Mainstem	108673	100-year	12690.00	8.06	40.949	20.65	41.29	0.000244	4.86	3428.54	176.40	0.16
Mainstem	107928	100-year	12690.00	9.49	40.700	22.63	41.08	0.000312	5.13	3197.36	169.86	0.17
Mainstem	107063	100-year	12690.00	5.88	40.454	20.41	40.83	0.000275	5.01	3138.60	174.61	0.17
Mainstem	106308	100-year	12690.00	11.13	40.289	21.14	40.62	0.000242	4.71	3249.11	332.93	0.16
Mainstem	105120	100-year	12690.00	10.61	40.129	20.58	40.36	0.000159	3.90	3859.66	229.21	0.13
Mainstem	103794	100-year	12690.00	6.68	39.694	19.65	40.06	0.000295	5.02	3220.00	175.22	0.16
Mainstem	102469	100-year	12750.00	10.64	39.320	21.31	39.69	0.000272	4.93	3067.74	174.26	0.17
Mainstem	101820	100-year	12750.00	10.16	39.190	20.97	39.51	0.000232	4.60	3296.77	235.92	0.16
Mainstem	101719	100-year	12750.00	10.16	39.162	21.04	39.48	0.000253	4.61	3166.80	188.88	0.16
Mainstem	101566	100-year	12750.00	5.75	39.036	20.35	39.43	0.000332	5.14	2976.96	193.16	0.17
Mainstem	100716	100-year	12750.00	1.31	38.772	20.06	39.15	0.000315	5.04	3009.27	158.92	0.17
Mainstem	99333	100-year	12750.00	9.13	38.453	20.29	38.76	0.000234	4.47	3240.22	183.27	0.16
Mainstem	99312		Bridge									
Mainstem	99301	100-year	12750.00	9.13	38.425	20.27	38.74	0.000240	4.59	3284.99	183.43	0.16
Mainstem	98271	100-year	12750.00	8.17	37.881	22.08	38.40	0.000410	5.94	2730.42	186.41	0.21
Mainstem	97527	100-year	12750.00	5.97	37.773	18.76	38.10	0.000275	4.68	3394.59	238.76	0.16
Mainstem	96693	100-year	12750.00	6.79	37.690	16.44	37.91	0.000135	3.80	3729.95	192.23	0.13
Mainstem	95420	100-year	12750.00	8.70	37.266	19.54	37.66	0.000272	5.09	2980.84	183.47	0.18
Mainstem	94285	100-year	12750.00	7.88	36.888	21.00	37.31	0.000340	5.31	2901.42	180.07	0.19
Mainstem	94232		Bridge									
Mainstem	94195	100-year	12750.00	7.88	36.795	20.89	37.27	0.000371	5.72	2954.15	182.00	0.20
Mainstem	93065	100-year	12750.00	4.02	36.449	17.59	36.87	0.000313	5.36	3468.87	392.26	0.18
Mainstem	92020	100-year	12750.00	8.76	36.115	19.09	36.52	0.000341	5.26	3001.59	172.81	0.18
Mainstem	90932	100-year	12750.00	7.20	35.643	18.06	36.14	0.000354	5.75	2702.13	152.13	0.20
Mainstem	89786	100-year	12750.00	-1.09	35.470	13.42	35.76	0.000224	4.45	3728.42	261.20	0.14
Mainstem	89744		Bridge									
Mainstem	89691	100-year	12750.00	-1.09	35.392	13.53	35.73	0.000257	4.82	3733.24	267.64	0.15
Mainstem	88704	100-year	12750.00	6.87	35.038	18.52	35.44	0.000325	5.14	2891.77	162.52	0.18
Mainstem	87743	100-year	12750.00	7.95	34.877	17.36	35.15	0.000211	4.26	3473.82	198.16	0.15
Mainstem	86671	100-year	12930.00	5.51	34.533	16.65	34.88	0.000287	4.83	3231.95	177.62	0.17
Mainstem	86407	100-year	12930.00	5.77	34.460	16.73	34.80	0.000308	4.83	3380.96	189.77	0.17
Mainstem	86339	100-year	12930.00	6.58	34.474	16.13	34.77	0.000208	4.46	3555.73	193.15	0.15
Mainstem	85462	100-year	12930.00	2.43	34.007	15.91	34.51	0.000374	5.85	2837.60	164.81	0.20
Mainstem	84564	100-year	12930.00	4.42	33.808	15.70	34.18	0.000278	5.01	3112.19	173.52	0.17
Mainstem	83714	100-year	12930.00	-3.23	33.666	15.16	33.94	0.000224	4.31	3589.21	211.44	0.15
Mainstem	83181	100-year	12930.00	2.90	33.465	15.70	33.81	0.000264	4.76	3157.96	189.86	0.17
Mainstem	83091	100-year	12930.00	2.35	33.433	15.85	33.78	0.000368	4.78	3057.67	200.58	0.17
Mainstem	82342	100-year	12930.00	2.38	33.060	14.24	33.50	0.000360	5.49	3159.94	298.36	0.18

HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	81333	100-year	12930.00	0.84	32.556	14.96	33.08	0.000448	6.03	2794.47	168.00	0.20
Mainstem	80504	100-year	12930.00	2.88	32.381	14.23	32.75	0.000274	4.97	3140.40	174.83	0.17
Mainstem	79728	100-year	12930.00	3.61	31.968	14.99	32.48	0.000391	5.92	2782.59	159.25	0.20
Mainstem	79052	100-year	12930.00	4.50	31.836	14.89	32.21	0.000303	4.97	2986.44	165.41	0.18
Mainstem	78978	100-year	12930.00	3.79	31.833	13.86	32.18	0.000240	4.80	3123.99	164.35	0.17
Mainstem	78852	100-year	12930.00	-0.49	31.692	15.22	32.13	0.000420	5.41	2780.83	160.92	0.19
Mainstem	77869	100-year	12930.00	3.20	31.067	14.79	31.67	0.000485	6.40	2524.29	149.35	0.22
Mainstem	77848	Bridge										
Mainstem	77832	100-year	12930.00	3.20	31.066	14.90	31.65	0.000486	6.29	2527.80	149.16	0.22
Mainstem	77579	100-year	12930.00	3.50	31.109	14.25	31.50	0.000287	5.08	2996.22	161.28	0.18
Mainstem	77400	100-year	12930.00	2.77	30.987	14.68	31.43	0.000437	5.49	2936.16	167.37	0.19
Mainstem	76740	100-year	12930.00	2.96	30.468	14.84	31.10	0.000509	6.53	2475.77	146.64	0.23
Mainstem	75662	100-year	12930.00	3.63	29.902	15.79	30.52	0.000554	6.51	2564.46	174.82	0.24
Mainstem	75610	Bridge										
Mainstem	75557	100-year	12930.00	3.63	29.945	14.51	30.42	0.000368	5.69	2707.50	164.62	0.20
Mainstem	74812	100-year	12930.00	2.01	29.730	12.81	30.14	0.000339	5.25	2942.78	167.15	0.18
Mainstem	74036	100-year	12930.00	1.60	29.216	13.78	29.81	0.000480	6.34	2540.26	158.31	0.22
Mainstem	73350	100-year	12930.00	3.13	29.048	13.42	29.48	0.000349	5.39	2829.02	165.03	0.19
Mainstem	72626	100-year	12930.00	2.18	28.673	13.19	29.20	0.000420	5.94	2642.85	157.99	0.21
Mainstem	71444	100-year	12930.00	-0.11	28.120	12.68	28.68	0.000456	6.10	2486.09	137.60	0.22
Mainstem	70520	100-year	12930.00	2.26	27.802	12.69	28.26	0.000382	5.56	2751.97	165.11	0.20
Mainstem	70483	Bridge										
Mainstem	70472	100-year	12930.00	2.26	27.799	12.59	28.23	0.000351	5.35	2754.46	167.87	0.20
Mainstem	69796	100-year	12930.00	2.09	27.564	12.64	27.99	0.000358	5.31	2763.38	155.00	0.20
Mainstem	68930	100-year	12930.00	2.12	27.123	13.37	27.64	0.000446	5.84	2535.64	159.46	0.22
Mainstem	68878	Bridge										
Mainstem	68814	100-year	12930.00	2.84	27.040	12.79	27.53	0.000457	5.73	2668.01	167.00	0.21
Mainstem	68181	100-year	12930.00	-2.79	26.884	11.13	27.25	0.000321	4.89	2820.52	159.05	0.18
Mainstem	67220	100-year	12930.00	-3.21	26.609	11.31	26.95	0.000294	4.80	3410.16	290.32	0.18
Mainstem	66327	100-year	12930.00	-0.29	26.182	11.58	26.64	0.000384	5.50	2735.54	173.38	0.20
Mainstem	65704	100-year	12930.00	2.34	25.993	11.57	26.39	0.000360	5.13	2935.13	189.34	0.19
Mainstem	65615	Bridge										
Mainstem	65535	100-year	12930.00	-0.46	25.923	10.69	26.24	0.000316	4.52	3122.89	195.95	0.18
Mainstem	65366	100-year	12930.00	-2.38	25.690	10.45	26.16	0.000458	5.59	2756.92	171.17	0.20
Mainstem	65314	Bridge										
Mainstem	65277	100-year	12930.00	-2.38	25.506	10.10	26.09	0.000568	6.25	2501.34	149.64	0.22
Mainstem	64907	100-year	12930.00	-1.17	25.229	11.39	25.87	0.000559	6.56	2357.64	145.79	0.24
Mainstem	64854	Bridge										
Mainstem	64812	100-year	12930.00	-2.16	25.274	9.12	25.77	0.000410	5.73	2602.25	152.91	0.20
Mainstem	64664	100-year	12930.00	-4.94	24.945	10.13	25.67	0.000789	6.92	2201.79	149.97	0.25
Mainstem	64611	Bridge										
Mainstem	64564	100-year	12930.00	-1.06	24.997	10.19	25.56	0.000496	6.09	2456.84	153.54	0.22
Mainstem	64490	100-year	12930.00	-2.57	25.141	7.77	25.46	0.000249	4.54	3083.89	160.70	0.16
Mainstem	64474	Bridge										
Mainstem	64453	100-year	12930.00	-2.57	25.116	7.78	25.45	0.000252	4.67	3093.69	168.39	0.17
Mainstem	63809	100-year	12930.00	3.01	24.928	11.06	25.27	0.000304	4.78	3279.16	211.86	0.18
Mainstem	62610	100-year	12930.00	2.08	24.564	10.96	24.90	0.000303	4.72	3025.79	181.35	0.19
Mainstem	61570	100-year	12930.00	-0.98	23.938	10.45	24.49	0.000485	6.07	2506.30	175.89	0.23
Mainstem	61533	Bridge										
Mainstem	61501	100-year	12930.00	-0.98	23.878	10.43	24.44	0.000489	6.10	2477.54	160.36	0.23
Mainstem	60646	100-year	12930.00	-0.37	23.590	10.58	24.01	0.000417	5.22	2614.13	162.34	0.21
Mainstem	60504	100-year	12930.00	-6.53	23.613	6.90	23.93	0.000270	4.58	3112.51	174.66	0.17
Mainstem	59796	100-year	12930.00	-4.05	23.237	7.60	23.70	0.000375	5.49	2636.69	150.86	0.20
Mainstem	59036	100-year	12930.00	-1.28	22.904	9.05	23.38	0.000466	5.57	2500.79	148.49	0.22
Mainstem	58075	100-year	12930.00	-2.23	22.539	9.13	22.93	0.000410	5.09	2762.34	176.41	0.20
Mainstem	58011	Bridge										
Mainstem	57980	100-year	12930.00	-0.91	22.553	8.36	22.88	0.000298	4.62	3004.41	339.75	0.18
Mainstem	57119	100-year	13410.00	1.48	22.211	10.27	22.59	0.000368	4.98	2987.74	203.13	0.20
Mainstem	57045	100-year	13410.00	0.97	22.226	9.13	22.55	0.000319	4.55	3091.39	195.70	0.18
Mainstem	56380	100-year	13410.00	-2.70	21.721	9.97	22.25	0.000562	5.87	2543.76	209.27	0.24
Mainstem	55672	100-year	13410.00	-0.24	21.526	8.64	21.88	0.000370	4.78	3006.49	225.00	0.19
Mainstem	54907	100-year	13410.00	-7.84	21.122	7.63	21.56	0.000445	5.34	2763.06	175.39	0.21
Mainstem	54896	Bridge										
Mainstem	54886	100-year	13410.00	-7.84	21.102		21.53	0.000433	5.26	2735.68	167.25	0.21
Mainstem	53756	100-year	13410.00	-0.71	20.721	8.32	21.06	0.000354	4.70	3126.89	408.93	0.19
Mainstem	52858	100-year	13410.00	-0.45	20.394	8.27	20.73	0.000378	4.79	3513.83	441.41	0.20
Mainstem	51855	100-year	13410.00	-7.58	19.961	6.67	20.32	0.000433	4.87	3106.14	257.77	0.20
Mainstem	50894	100-year	13410.00	-2.28	19.580	7.41	19.94	0.000367	4.85	3035.10	202.05	0.20
Mainstem	49959	100-year	13410.00	-4.51	19.215	7.28	19.57	0.000419	4.82	2953.94	353.65	0.20
Mainstem	48909	100-year	13410.00	-9.47	18.551	5.80	19.05	0.000575	5.69	2587.67	199.53	0.23
Mainstem	48877	Bridge										
Mainstem	48840	100-year	13410.00	-9.47	18.498	5.81	19.01	0.000614	5.76	2570.10	208.00	0.23
Mainstem	47583	100-year	13410.00	-3.57	17.943		18.31	0.000442	4.91	2947.69	243.36	0.21
Mainstem	46469	100-year	13410.00	-6.77	17.435		17.82	0.000443	4.98	2745.65	189.69	0.21
Mainstem	45651	100-year	13410.00	-8.06	16.897		17.38	0.000618	5.61	2484.43	175.08	0.24

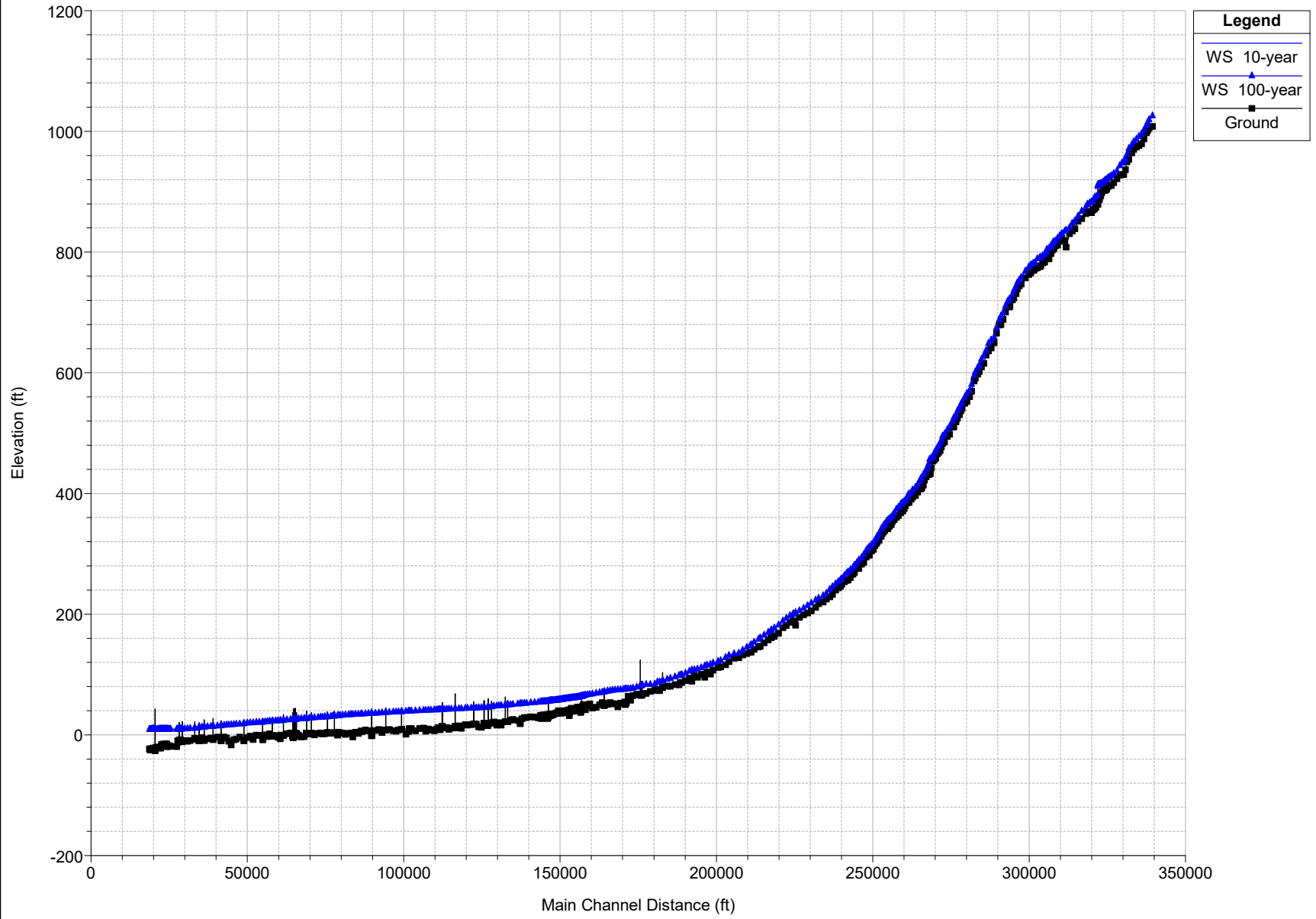
HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	44822	100-year	13410.00	-16.74	16.738		16.97	0.000290	3.88	3751.28	308.80	0.16
Mainstem	44030	100-year	13410.00	-10.52	16.318		16.68	0.000431	4.83	2903.28	192.66	0.20
Mainstem	43322	100-year	13410.00	-5.44	16.129		16.38	0.000333	4.04	3474.22	276.05	0.18
Mainstem	42557	100-year	13410.00	-3.65	15.727		16.08	0.000438	4.77	2951.71	226.92	0.21
Mainstem	41601	100-year	13410.00	-9.33	15.241	4.36	15.62	0.000510	4.98	2828.34	216.99	0.22
Mainstem	41554											
Mainstem	41506	100-year	13410.00	-9.33	15.013	5.06	15.53	0.000749	5.80	2428.21	178.00	0.25
Mainstem	40403	100-year	13410.00	-3.69	14.620		14.91	0.000358	4.33	3168.20	221.33	0.19
Mainstem	39077	100-year	13410.00	-7.62	14.034	3.02	14.38	0.000431	4.76	2867.31	190.47	0.21
Mainstem	39056											
Mainstem	39014	100-year	13410.00	-5.87	13.996		14.32	0.000388	4.61	2971.94	199.56	0.20
Mainstem	38343	100-year	13410.00	-5.39	13.678		14.04	0.000465	4.80	2822.47	192.76	0.22
Mainstem	37261	100-year	13410.00	-6.47	13.199		13.55	0.000428	4.78	2838.97	186.83	0.21
Mainstem	36226	100-year	13410.00	-9.10	12.778	2.37	13.10	0.000423	4.57	2971.24	223.49	0.21
Mainstem	36173											
Mainstem	36120	100-year	13410.00	-9.10	12.658	2.55	13.04	0.000501	4.97	2777.22	223.55	0.22
Mainstem	35434	100-year	13410.00	-4.42	12.372		12.70	0.000456	4.58	2948.71	217.70	0.21
Mainstem	34653	100-year	13410.00	-9.97	12.035	1.03	12.36	0.000401	4.60	2927.94	219.70	0.20
Mainstem	34579											
Mainstem	34510	100-year	13410.00	-9.97	11.914	1.23	12.29	0.000495	4.95	2736.67	182.80	0.22
Mainstem	33180	100-year	13410.00	-7.14	11.109	1.66	11.53	0.000663	5.22	2593.05	187.75	0.24
Mainstem	33164											
Mainstem	33137	100-year	13410.00	-5.66	10.963	2.95	11.48	0.000848	5.78	2379.98	211.78	0.28
Mainstem	31659	100-year	13410.00	-9.25	10.301	-0.73	10.60	0.000387	4.39	3143.93	238.33	0.19
Mainstem	30814	100-year	13410.00	-10.52	10.013		10.28	0.000346	4.16	3274.26	218.90	0.18
Mainstem	30001	100-year	13410.00	-9.50	9.775		10.01	0.000299	3.88	3487.31	246.25	0.18
Mainstem	29209	100-year	13410.00	-9.72	9.565	-1.57	9.78	0.000267	3.73	3637.40	245.77	0.17
Mainstem	29172											
Mainstem	29114	100-year	13410.00	-11.54	9.526	-1.91	9.70	0.000212	3.33	4039.13	279.72	0.15
Mainstem	28649	100-year	13410.00	-8.94	9.481		9.60	0.000154	2.76	4886.83	353.59	0.13
Mainstem	28591	100-year	13410.00	-8.12	9.472		9.59	0.000151	2.73	4955.13	366.36	0.13
Mainstem	28528	100-year	13410.00	-8.34	9.474		9.58	0.000129	2.55	5287.93	377.68	0.12
Mainstem	28464	100-year	13410.00	-11.43	9.467		9.57	0.000133	2.53	5322.88	391.19	0.12
Mainstem	28369	100-year	13410.00	-8.48	9.451		9.55	0.000141	2.57	5240.91	392.32	0.12
Mainstem	28322	100-year	13410.00	-8.95	9.450		9.54	0.000126	2.45	5532.10	419.06	0.12
Mainstem	28243	100-year	13410.00	-9.92	9.440	-2.37	9.53	0.000128	2.46	5471.38	406.92	0.12
Mainstem	28190											
Mainstem	28164	100-year	13410.00	-10.62	9.407		9.51	0.000130	2.53	5316.22	379.07	0.12
Mainstem	27778	100-year	13410.00	-12.40	9.416		9.45	0.000062	1.57	8560.69	726.92	0.08
Mainstem	27678	100-year	13410.00	-9.82	9.371		9.44	0.000121	2.16	6572.96	680.51	0.11
Mainstem	27372	100-year	13410.00	-19.62	9.395		9.41	0.000020	1.14	11906.57	758.36	0.05
Mainstem	25439	100-year	13410.00	-18.93	9.336		9.37	0.000031	1.37	9789.56	597.38	0.06
Mainstem	25085	100-year	13410.00	-18.00	9.352		9.36	0.000003	0.47	28822.04	1441.85	0.02
Mainstem	24652	100-year	13410.00	-18.66	9.335		9.35	0.000018	1.03	12970.45	806.49	0.05
Mainstem	24563	100-year	13410.00	-19.46	9.334		9.35	0.000017	1.02	13149.89	806.31	0.04
Mainstem	24473	100-year	13410.00	-18.92	9.332		9.35	0.000017	1.02	13238.75	802.33	0.04
Mainstem	24383	100-year	13410.00	-19.03	9.331		9.35	0.000016	0.99	13557.18	833.24	0.04
Mainstem	24283	100-year	13410.00	-18.35	9.330		9.34	0.000016	0.98	13671.31	840.81	0.04
Mainstem	24172	100-year	13410.00	-15.01	9.317		9.34	0.000030	1.27	10614.50	713.37	0.06
Mainstem	23924	100-year	13410.00	-15.13	9.300		9.33	0.000046	1.43	9432.25	551.61	0.06
Mainstem	23786	100-year	13410.00	-15.45	9.294		9.33	0.000032	1.44	9328.21	549.12	0.06
Mainstem	23718	100-year	13410.00	-15.64	9.290		9.32	0.000034	1.47	9139.87	546.97	0.06
Mainstem	23649	100-year	13410.00	-15.78	9.287		9.32	0.000036	1.50	9052.76	578.67	0.06
Mainstem	23496	100-year	13410.00	-15.62	9.271		9.31	0.000045	1.67	8084.89	511.18	0.07
Mainstem	23417	100-year	13410.00	-15.59	9.268		9.31	0.000044	1.67	8079.13	493.26	0.07
Mainstem	23327	100-year	13410.00	-15.43	9.263		9.31	0.000046	1.69	7968.39	485.27	0.07
Mainstem	23052	100-year	13410.00	-15.55	9.250		9.29	0.000046	1.69	7931.56	465.18	0.07
Mainstem	22989	100-year	13410.00	-15.75	9.247		9.29	0.000045	1.70	7921.32	464.38	0.07
Mainstem	22889	100-year	13410.00	-15.99	9.241		9.29	0.000046	1.71	7841.62	466.44	0.07
Mainstem	22794	100-year	13410.00	-16.26	9.227		9.28	0.000051	1.87	7181.77	406.31	0.08
Mainstem	22688	100-year	13410.00	-16.25	9.219		9.28	0.000055	1.91	7021.11	399.11	0.08
Mainstem	22598	100-year	13410.00	-16.28	9.215		9.27	0.000053	1.88	7146.88	412.41	0.08
Mainstem	22540	100-year	13410.00	-16.40	9.212		9.27	0.000142	1.86	7232.55	409.00	0.08
Mainstem	22334	100-year	13410.00	-19.84	9.199		9.25	0.000048	1.78	7551.34	420.57	0.07
Mainstem	22271	100-year	13410.00	-21.51	9.196		9.24	0.000044	1.76	7614.23	417.63	0.07
Mainstem	22128	100-year	13410.00	-17.95	9.192		9.24	0.000040	1.73	7769.35	410.84	0.07
Mainstem	22039	100-year	13410.00	-18.51	9.190		9.23	0.000038	1.69	7940.08	416.44	0.07
Mainstem	21923	100-year	13410.00	-19.56	9.186		9.23	0.000038	1.69	7971.83	431.13	0.07
Mainstem	21843	100-year	13410.00	-20.81	9.181		9.23	0.000040	1.71	7868.56	423.46	0.07
Mainstem	21358	100-year	13410.00	-20.14	9.172		9.21	0.000033	1.47	9194.13	550.91	0.06
Mainstem	20793	100-year	13410.00	-20.69	9.155		9.19	0.000031	1.42	9478.85	552.45	0.06
Mainstem	20544	100-year	13410.00	-23.49	9.150		9.18	0.000026	1.35	10017.88	572.26	0.06
Mainstem	20492	100-year	13410.00	-24.57	9.147	-15.05	9.18	0.000024	1.39	9959.50	548.98	0.05
Mainstem	20428											
Mainstem	20418	100-year	13410.00	-24.04	9.101		9.14	0.000077	1.49	9125.18	495.80	0.06

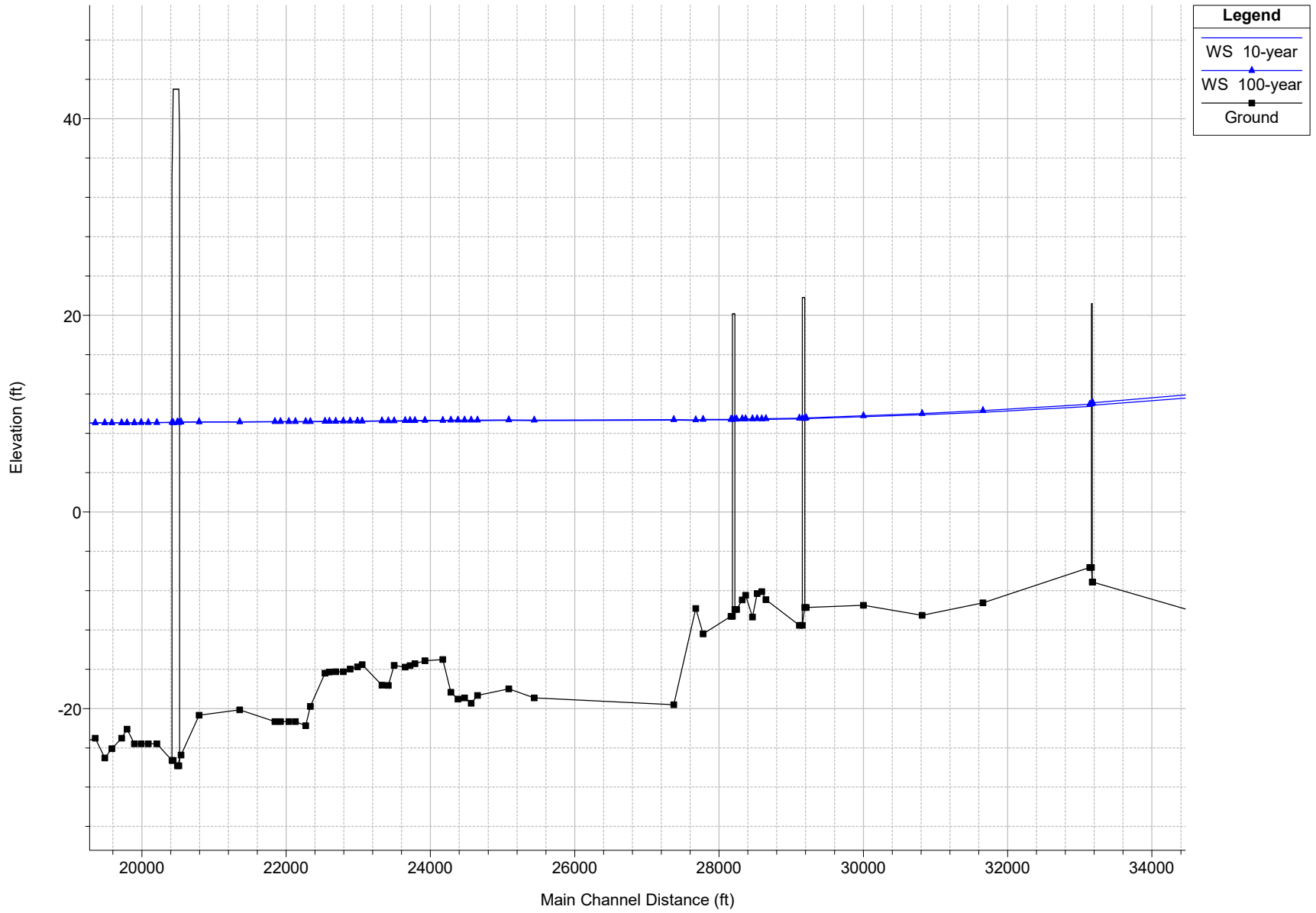
HEC-RAS Plan: Pre-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	20207	100-year	13410.00	-21.14	9.088		9.13	0.000042	1.58	8529.76	465.01	0.06
Mainstem	20090	100-year	13410.00	-20.67	9.083		9.12	0.000036	1.59	8469.11	461.70	0.06
Mainstem	19990	100-year	13410.00	-20.41	9.077		9.12	0.000055	1.62	8304.66	451.36	0.07
Mainstem	19895	100-year	13410.00	-20.36	9.074		9.11	0.000036	1.59	8472.26	496.88	0.07
Mainstem	19795	100-year	13410.00	-20.30	9.071		9.11	0.000037	1.56	8800.50	578.30	0.06
Mainstem	19721	100-year	13410.00	-20.39	9.070		9.11	0.000033	1.51	9151.33	631.17	0.06
Mainstem	19584	100-year	13410.00	-20.35	9.066		9.10	0.000044	1.49	9167.35	627.94	0.06
Mainstem	19488	100-year	13410.00	-20.09	9.061		9.10	0.000040	1.52	9006.76	612.51	0.06
Mainstem	19356	100-year	13410.00	-19.87	9.054		9.09	0.000042	1.53	8947.42	610.24	0.06
Mainstem	19188	100-year	13410.00	-19.58	9.046		9.08	0.000039	1.55	8756.90	537.59	0.06
Mainstem	19077	100-year	13410.00	-19.59	9.043		9.08	0.000034	1.54	8725.02	488.66	0.06
Mainstem	18966	100-year	13410.00	-19.48	9.040		9.08	0.000034	1.51	8921.83	523.22	0.06
Mainstem	18876	100-year	13410.00	-19.52	9.039		9.07	0.000034	1.44	9328.69	566.40	0.06
Mainstem	18781	100-year	13410.00	-19.66	9.031		9.07	0.000034	1.54	8773.87	501.50	0.06
Mainstem	18670	100-year	13410.00	-19.65	9.020	-12.45	9.06	0.000038	1.67	8072.24	439.97	0.07

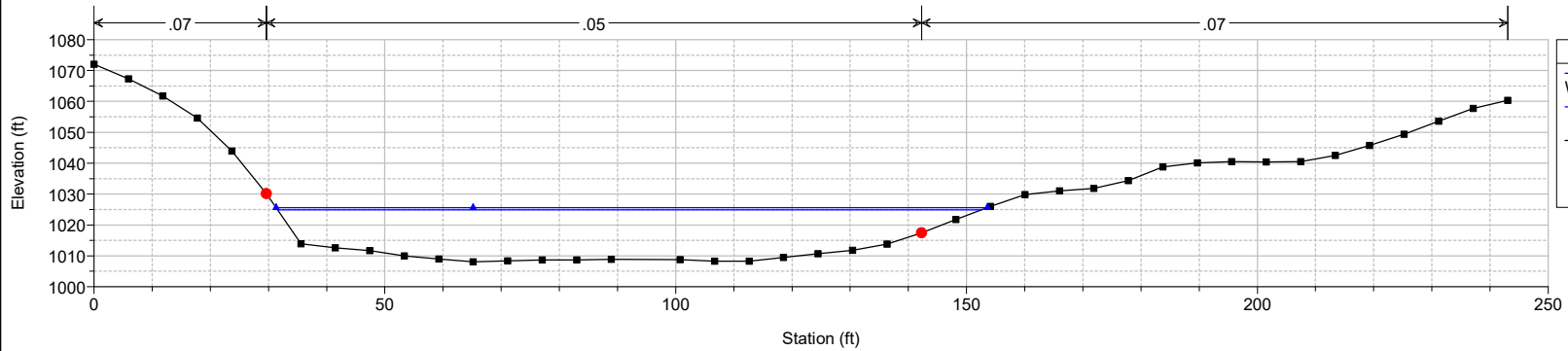
LDW\_UR\_NoRise100pct Plan: 1) Pre-Construction 10/27/2023



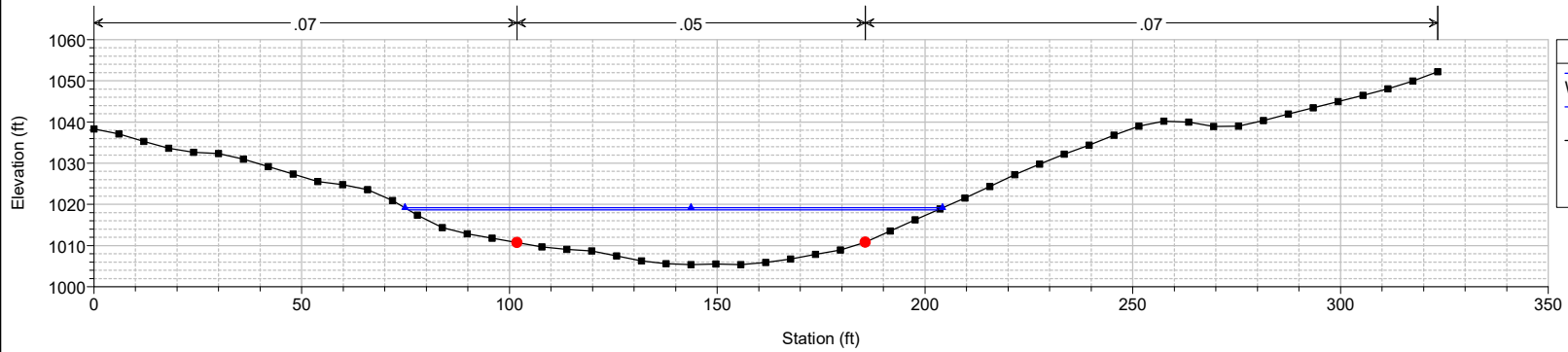




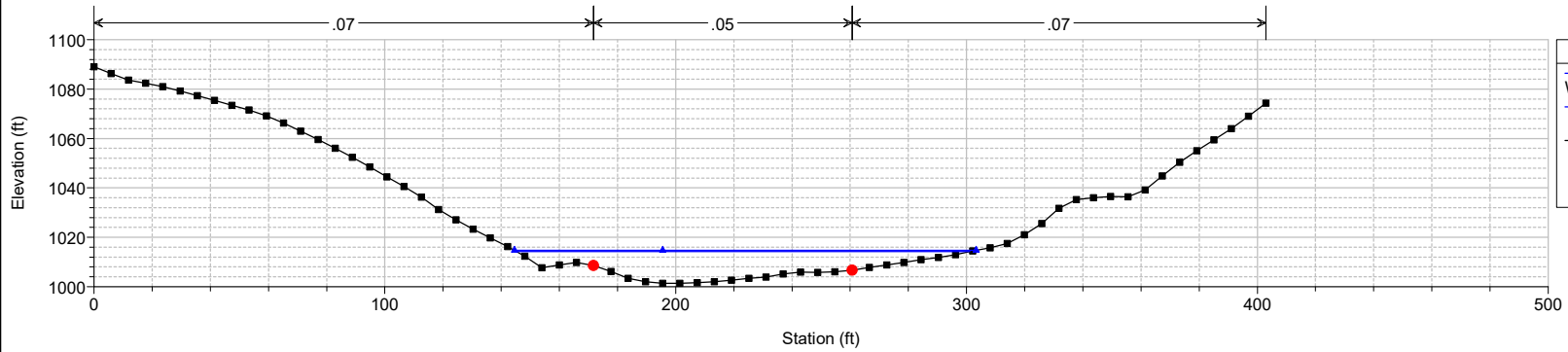
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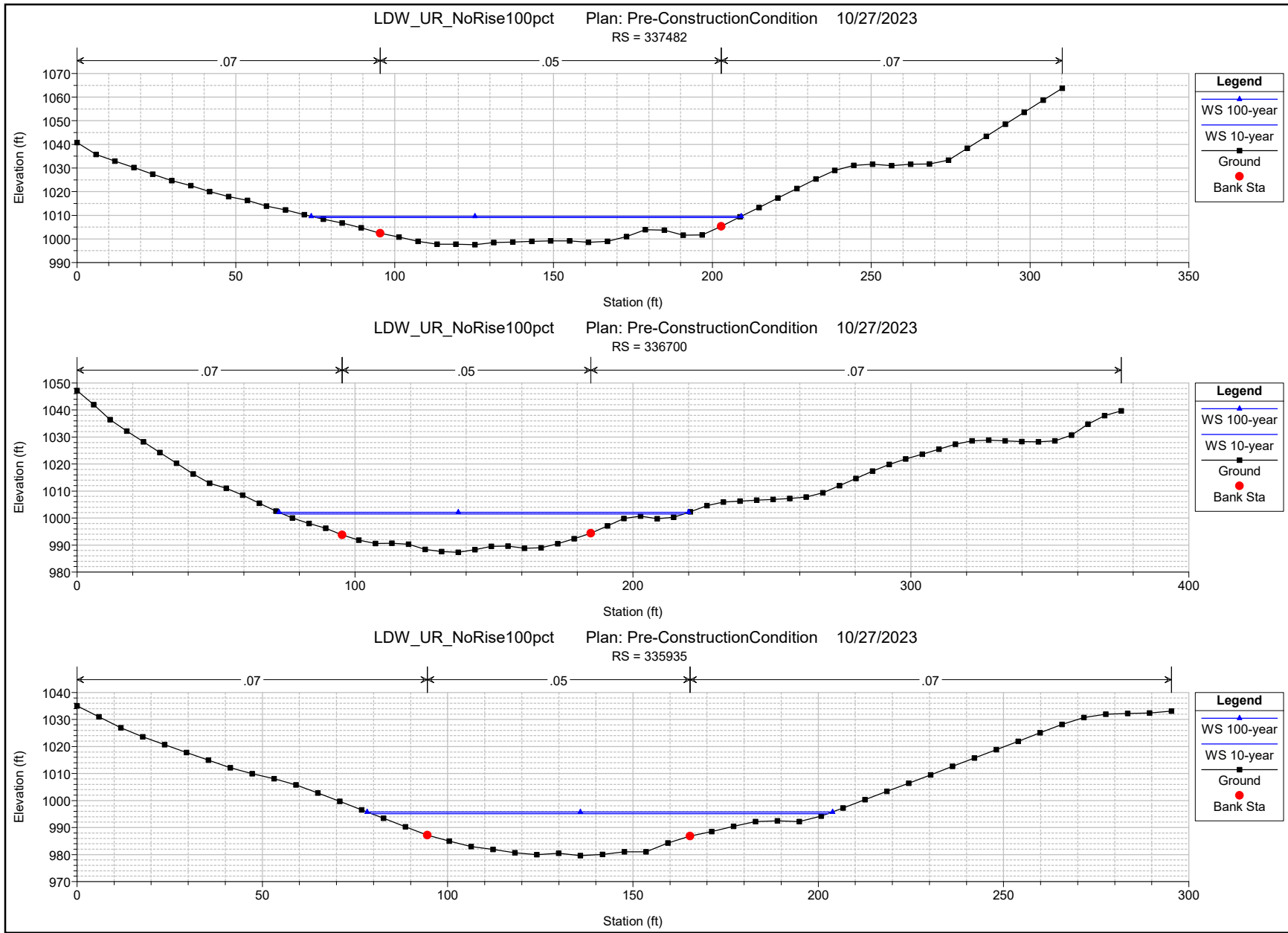


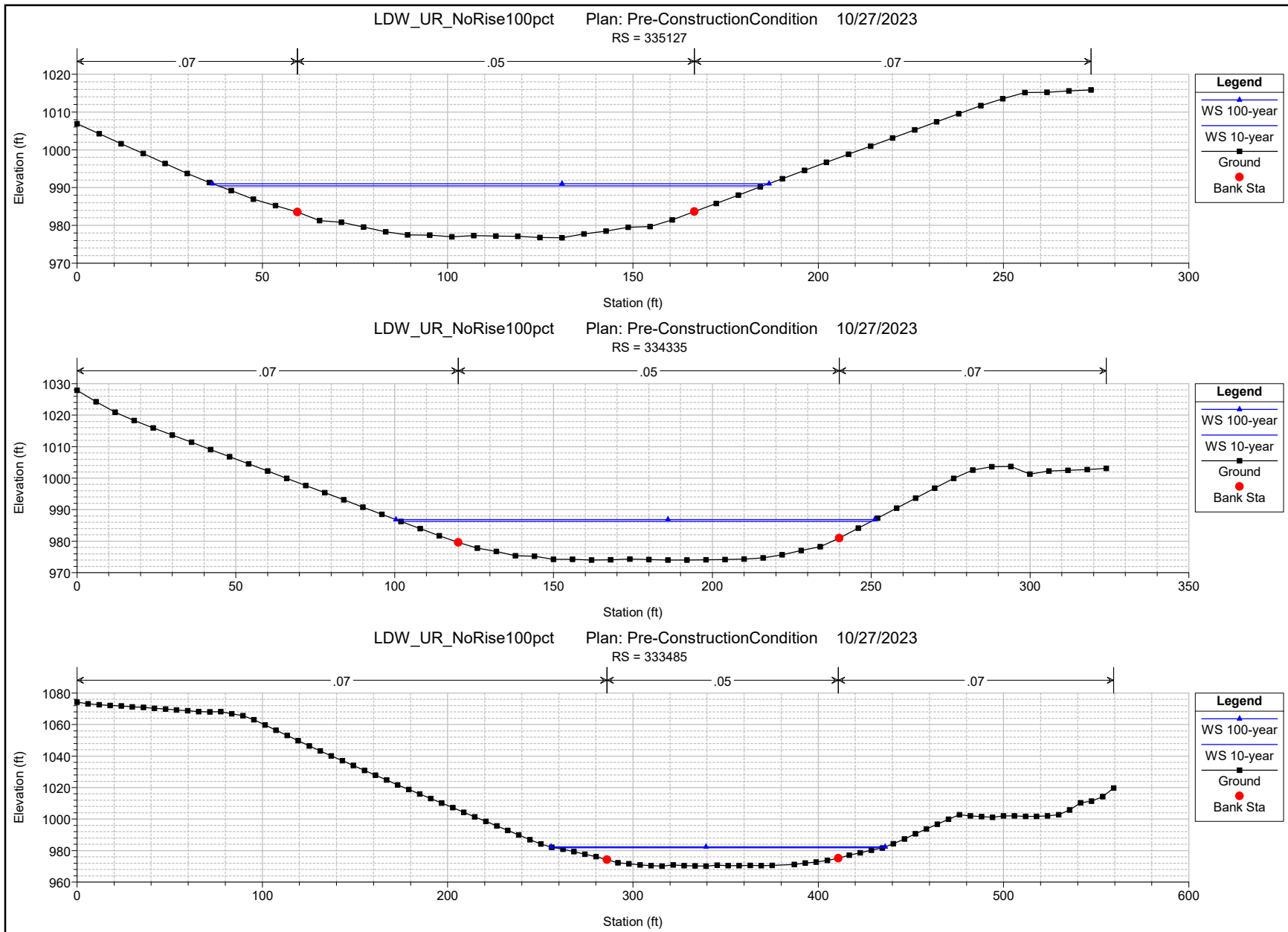
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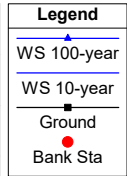
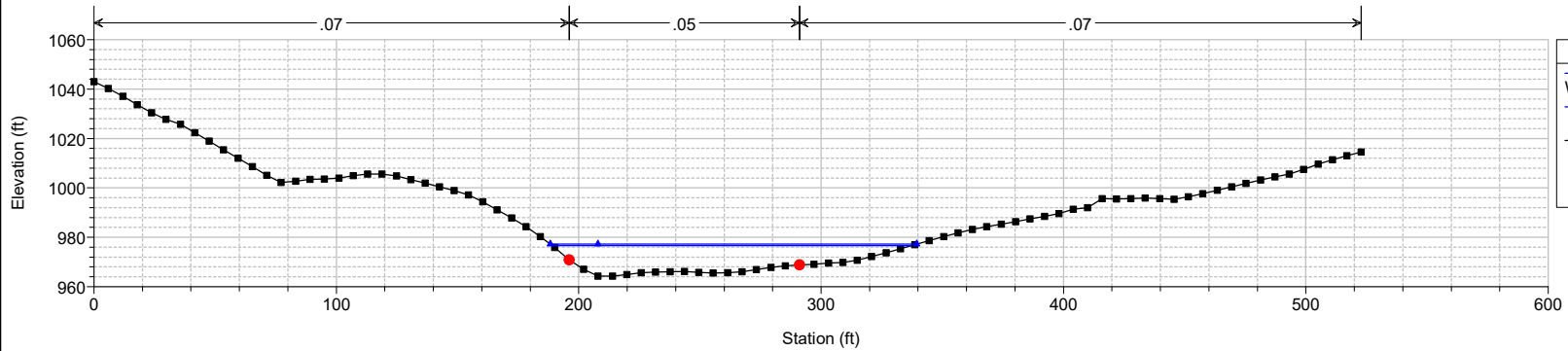
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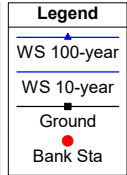
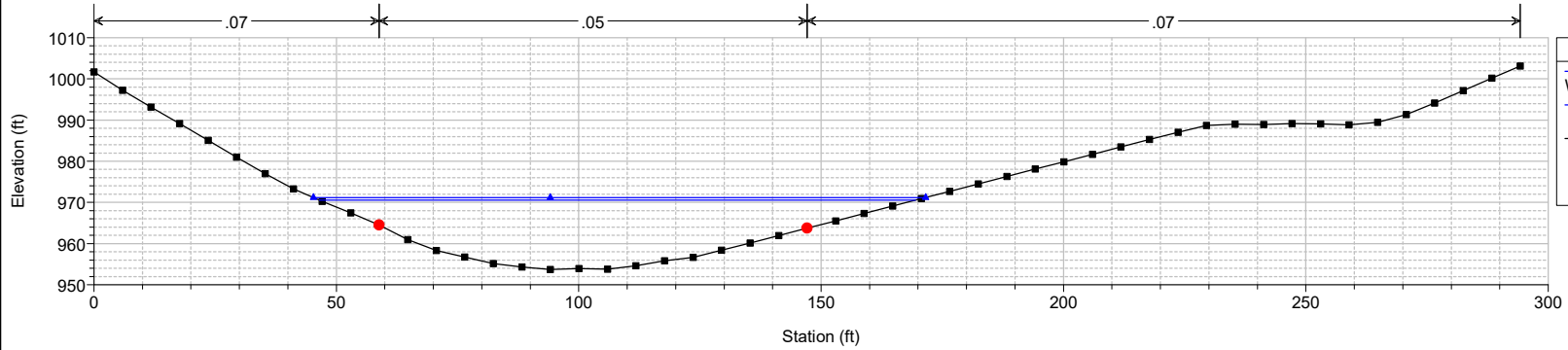




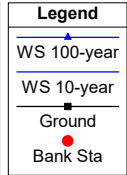
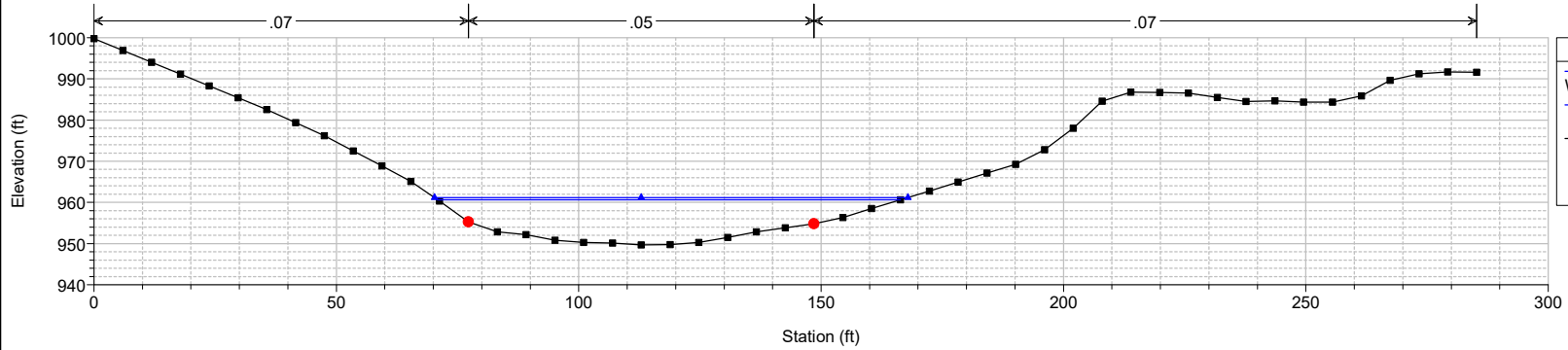
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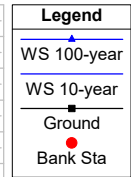
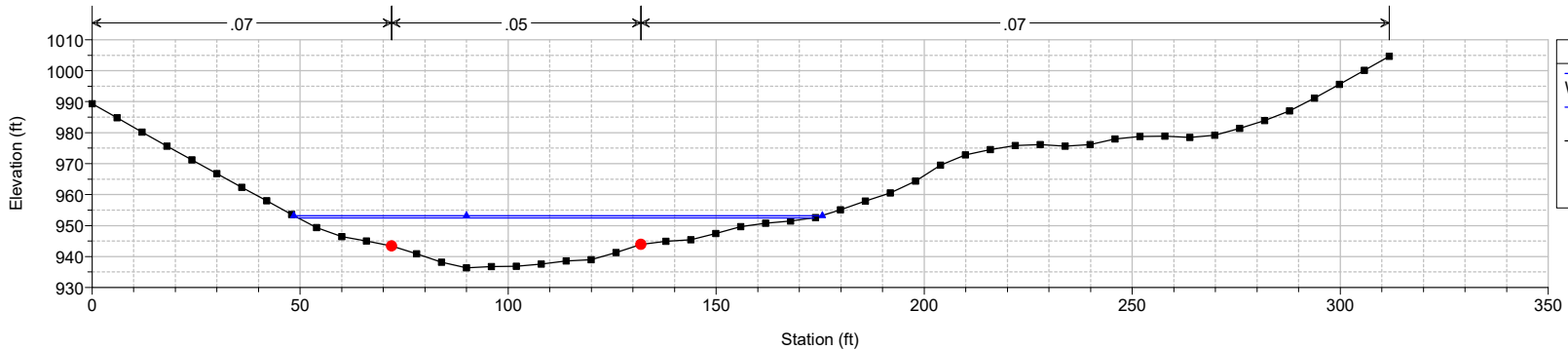
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 331901



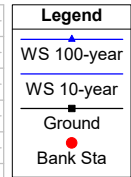
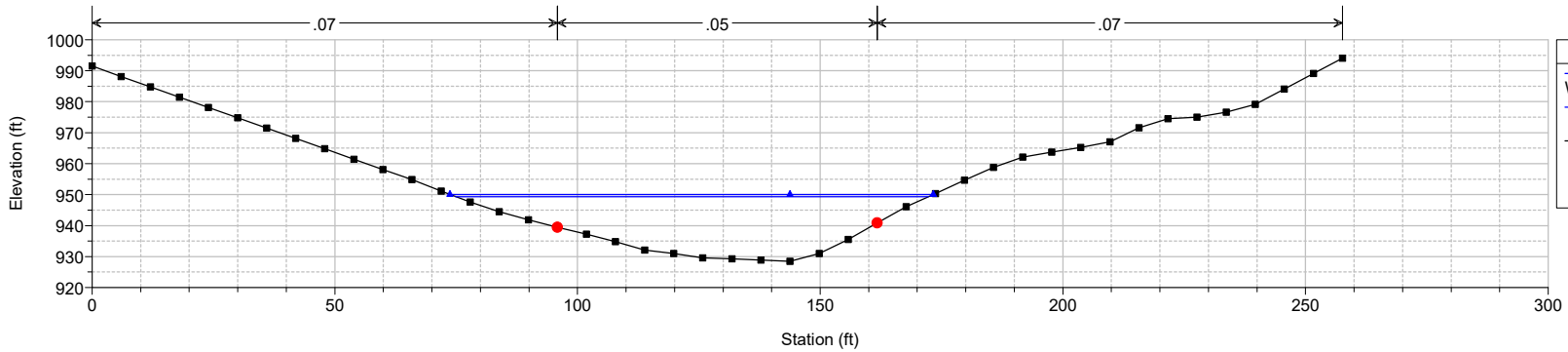
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 331251



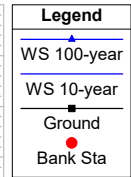
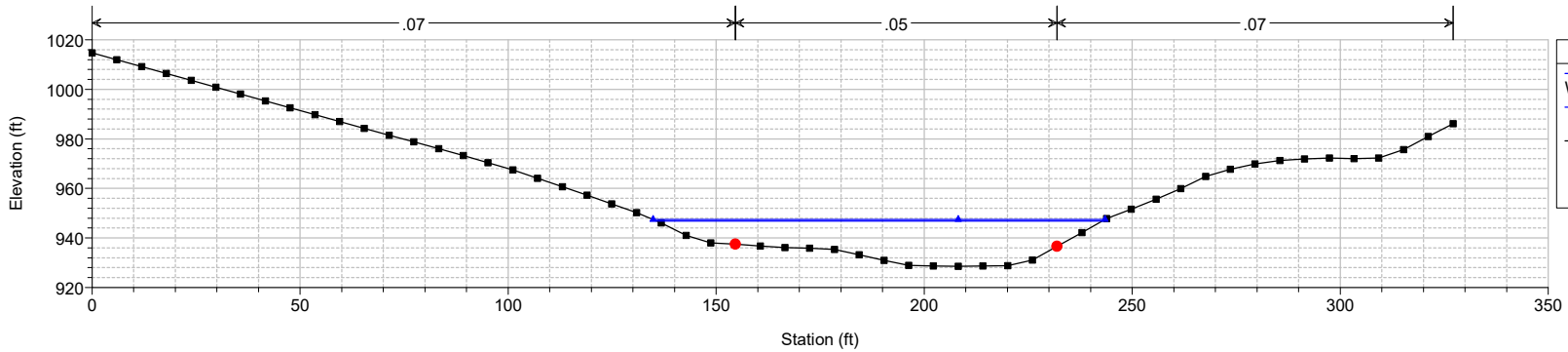
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 330787

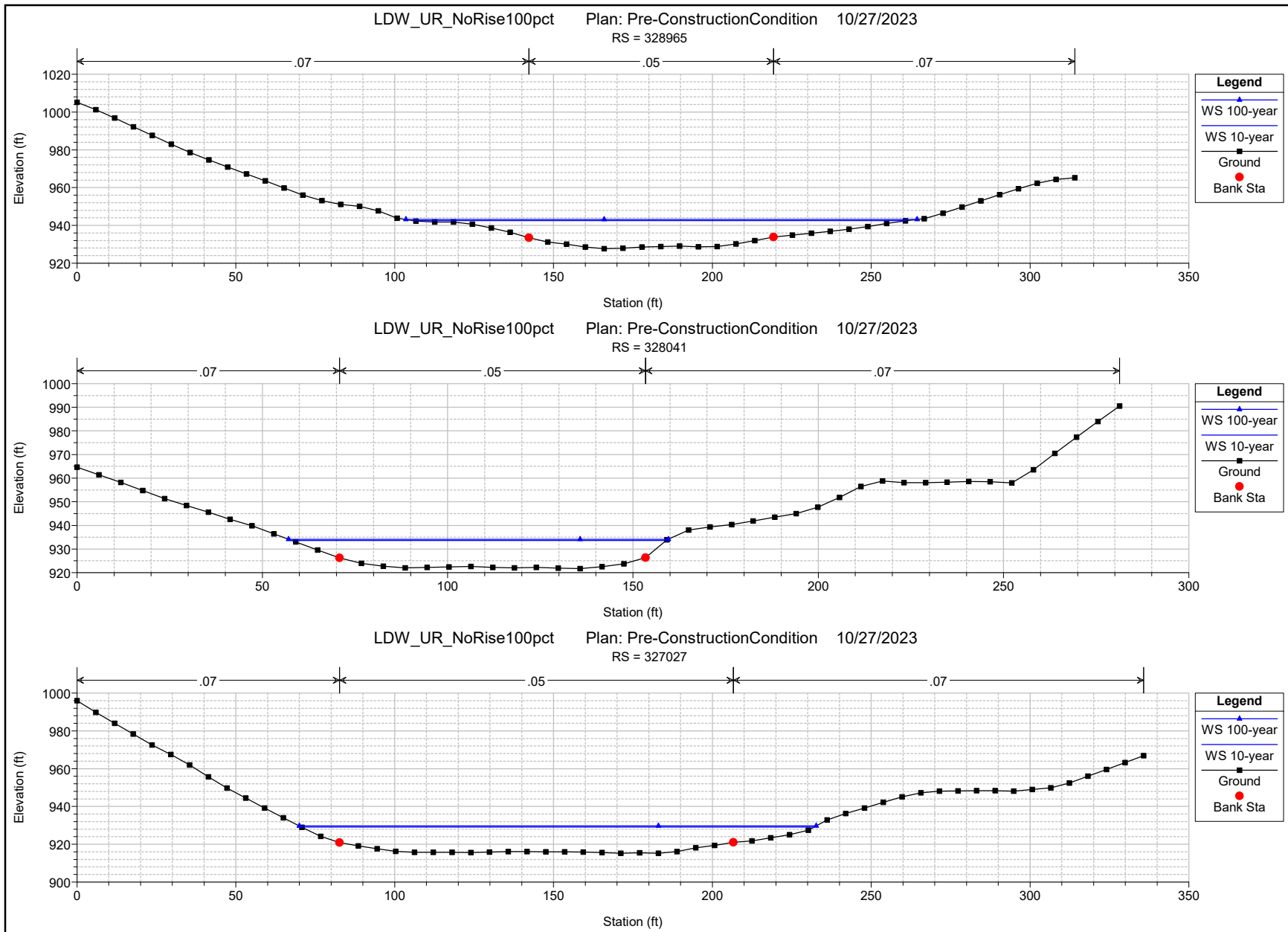


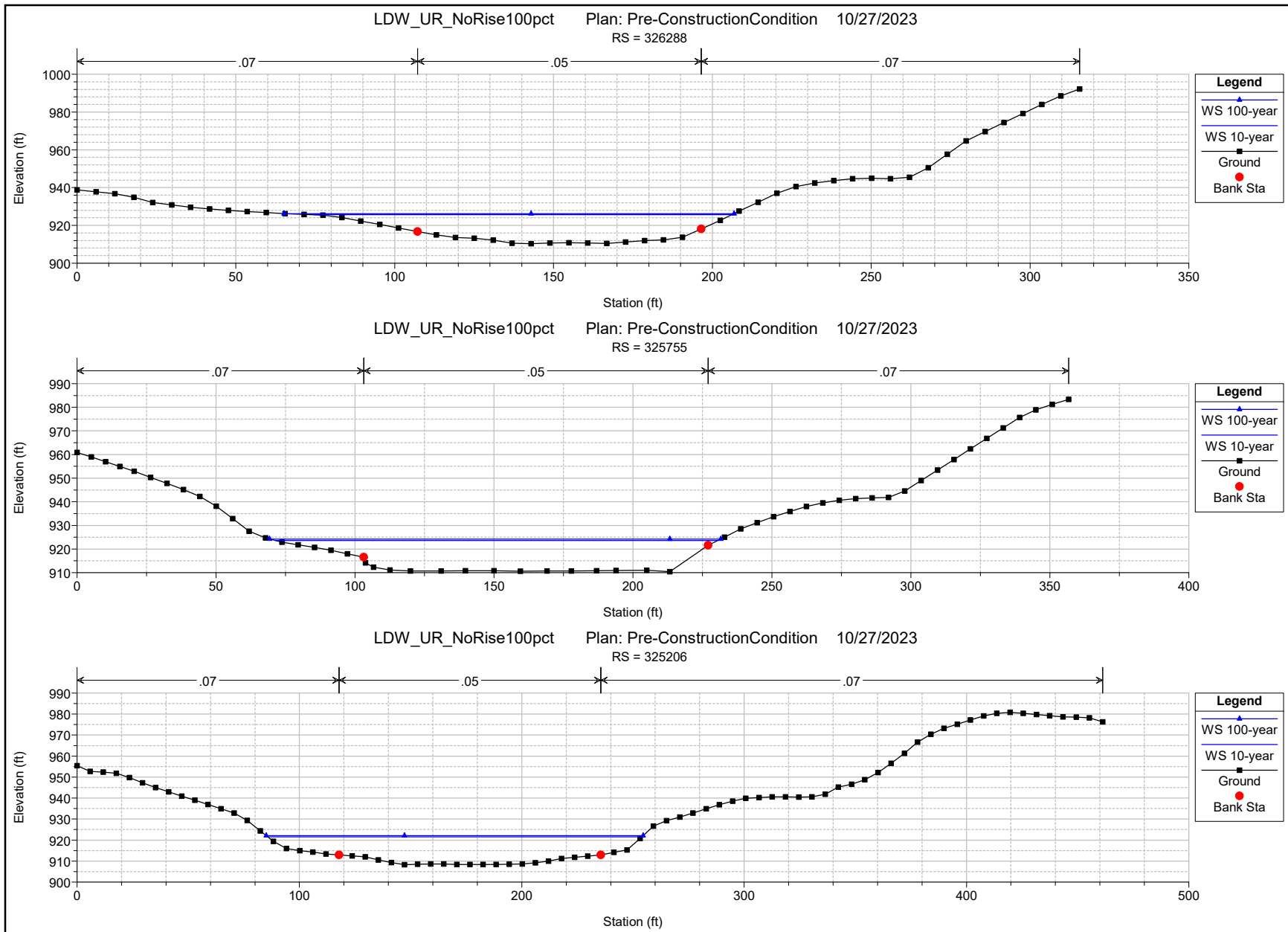
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 330211



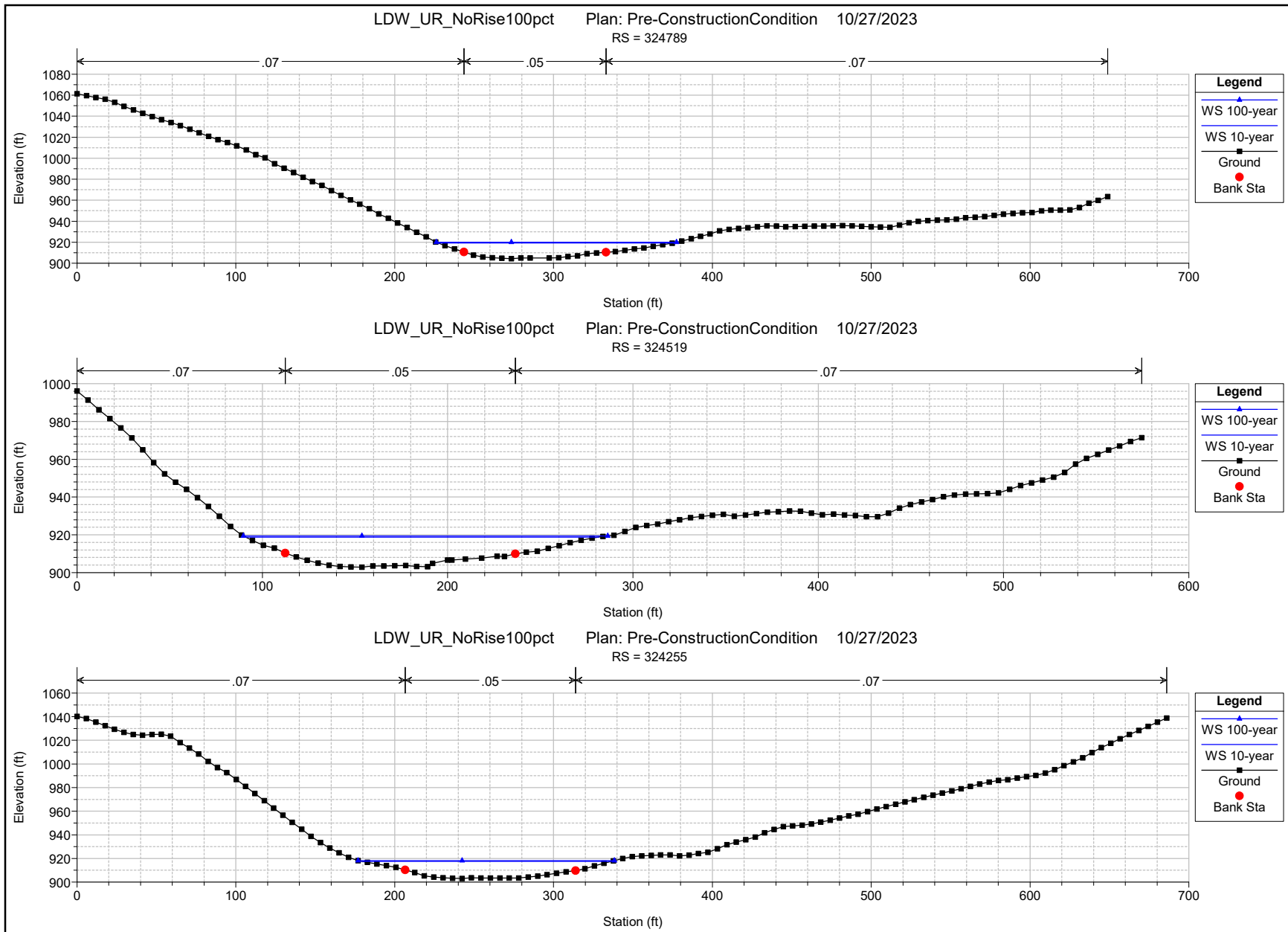
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 329667

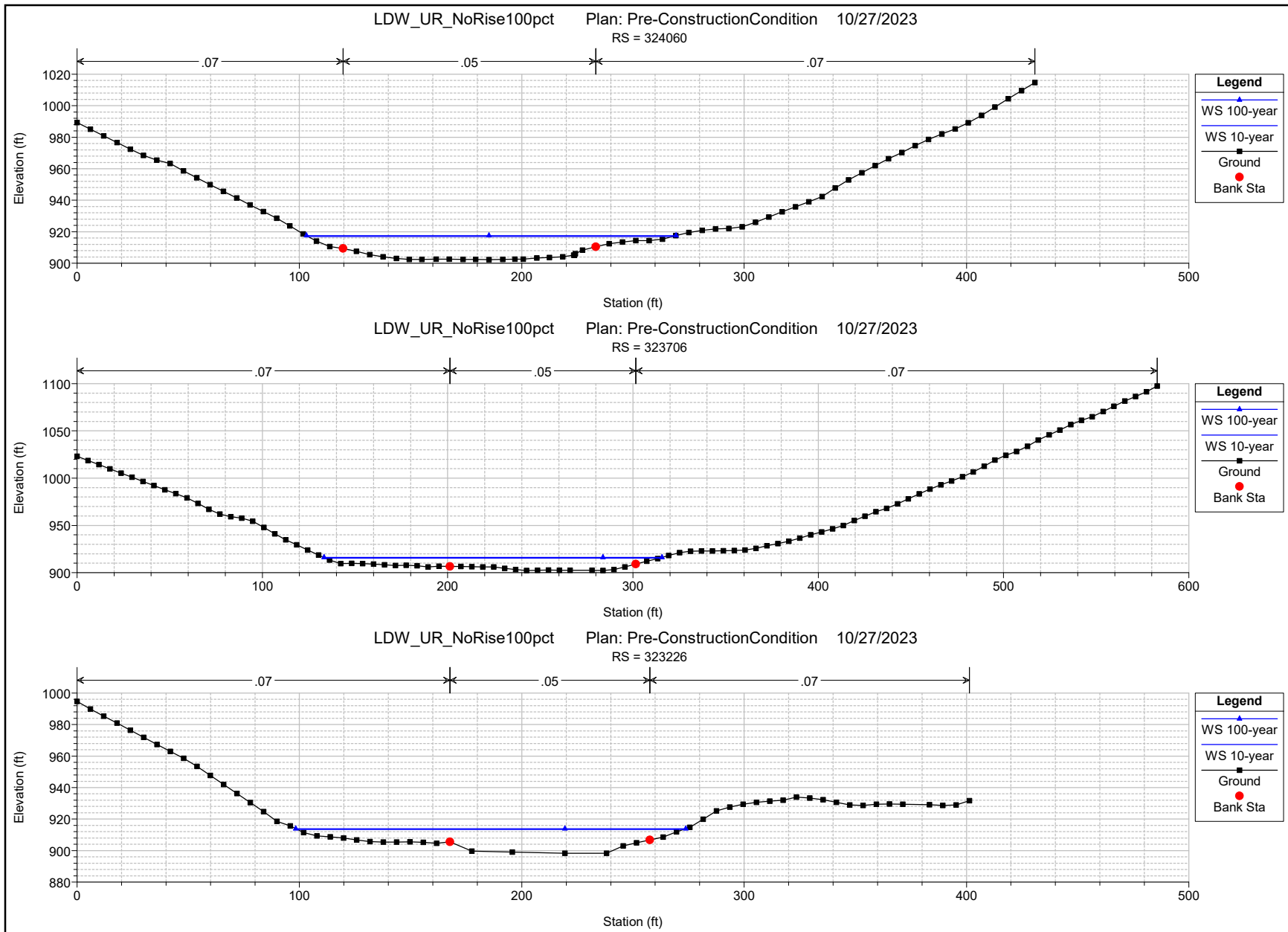


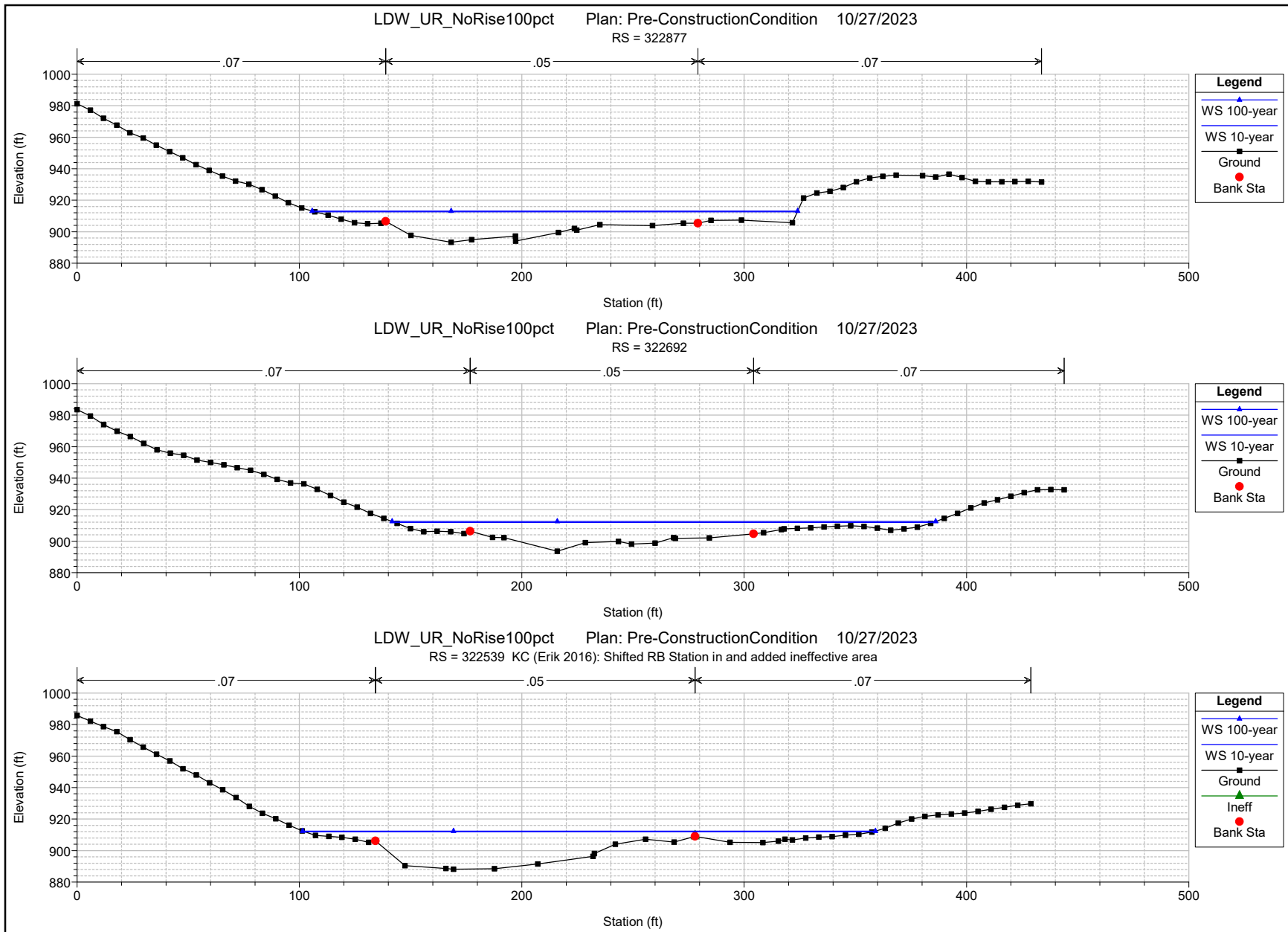


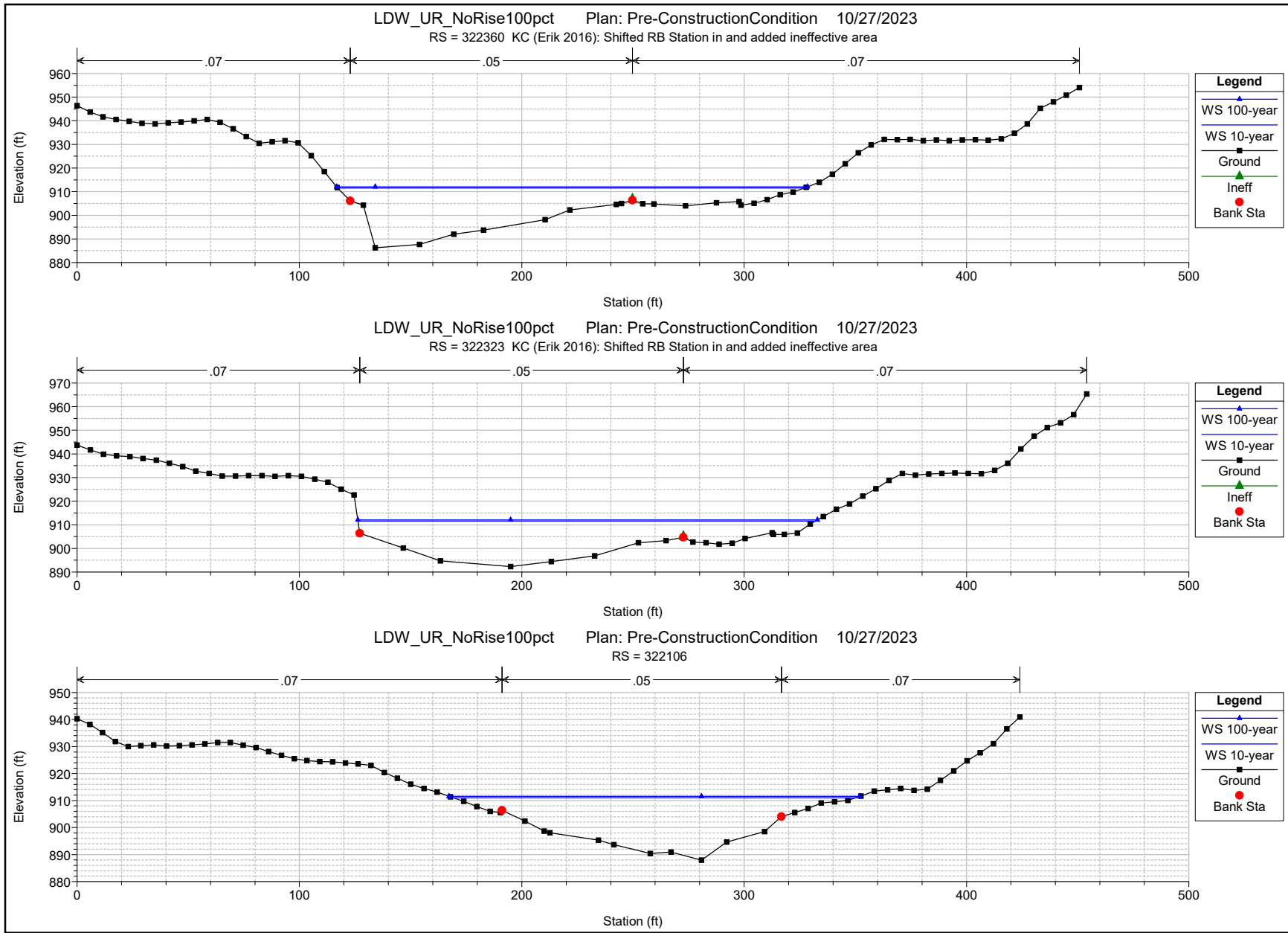




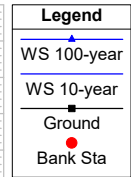
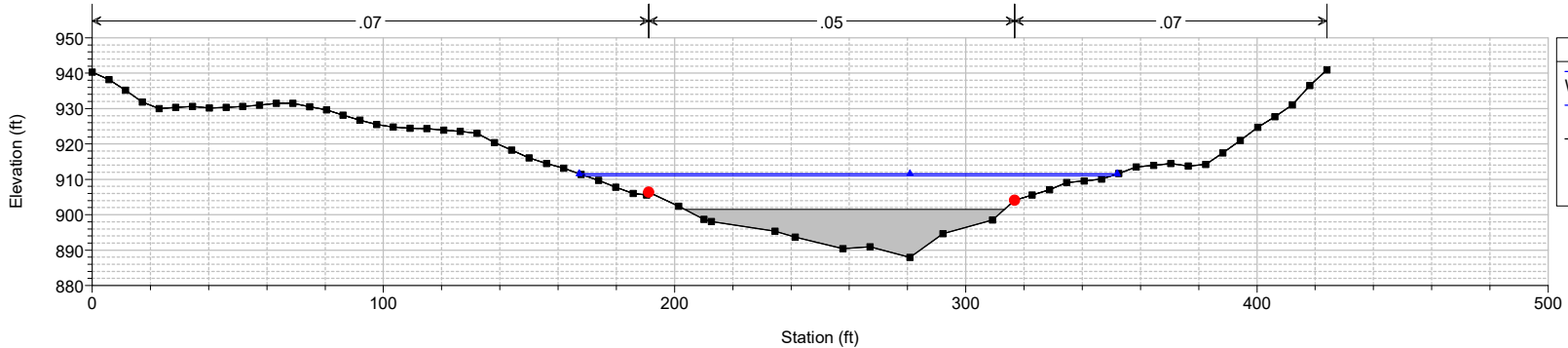




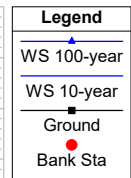
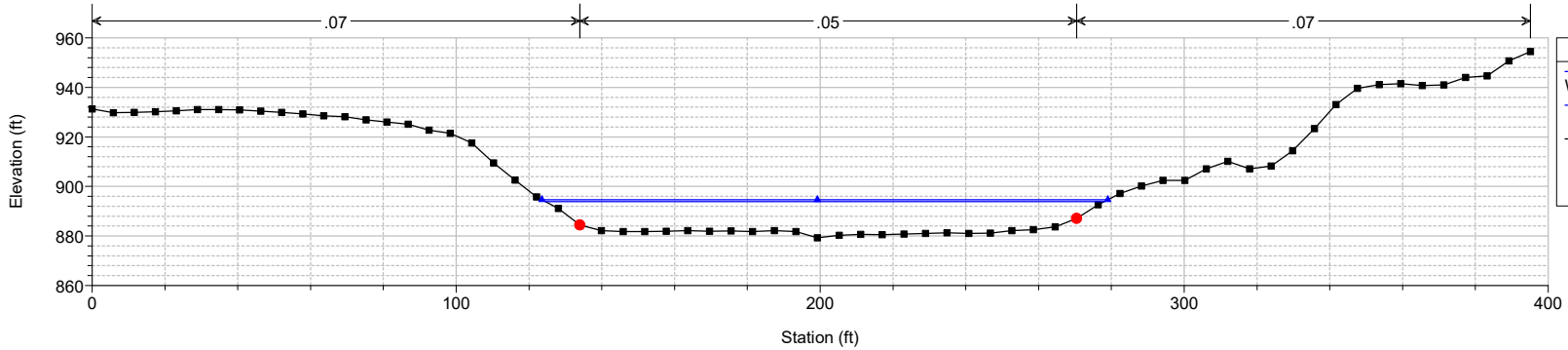




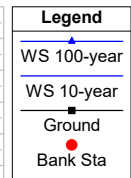
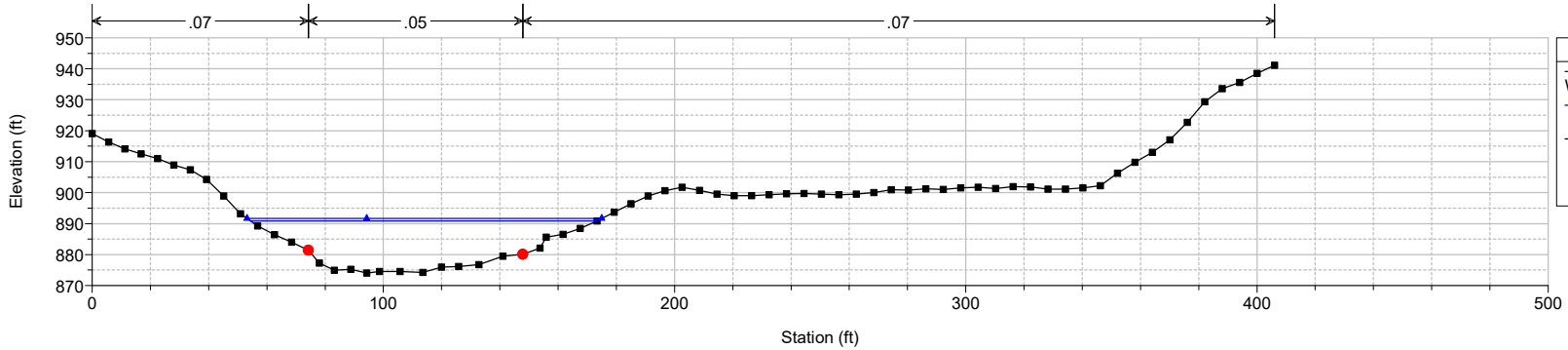
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 321990 IS Tacoma Water Diversion Dam



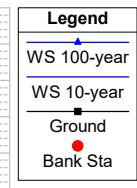
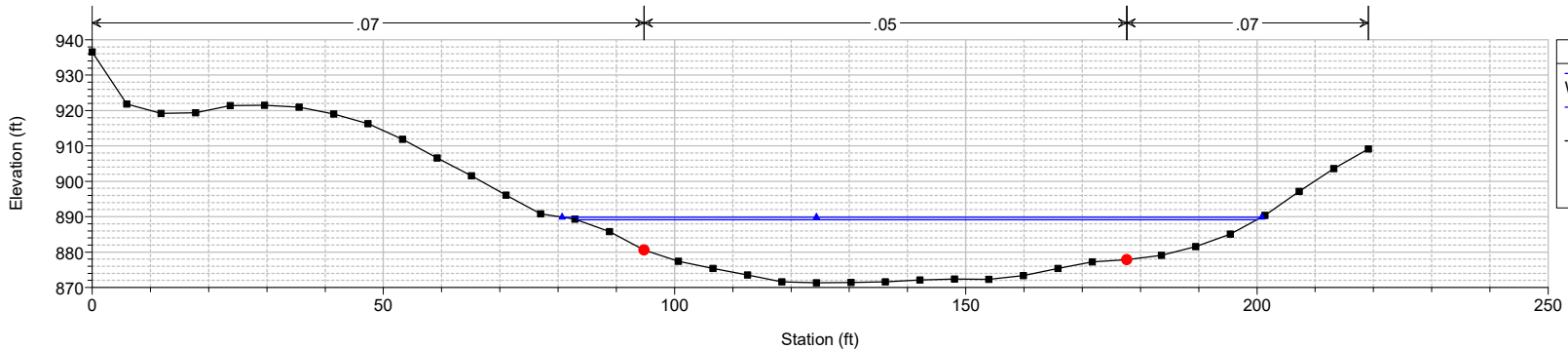
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 321964



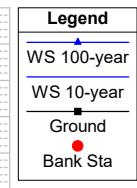
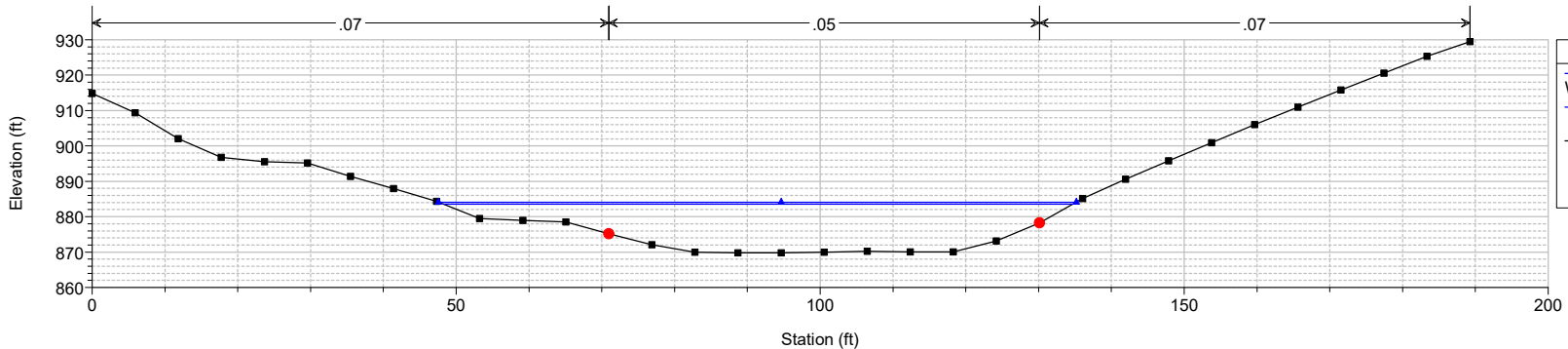
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 RS = 321383



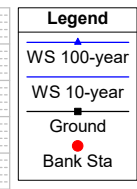
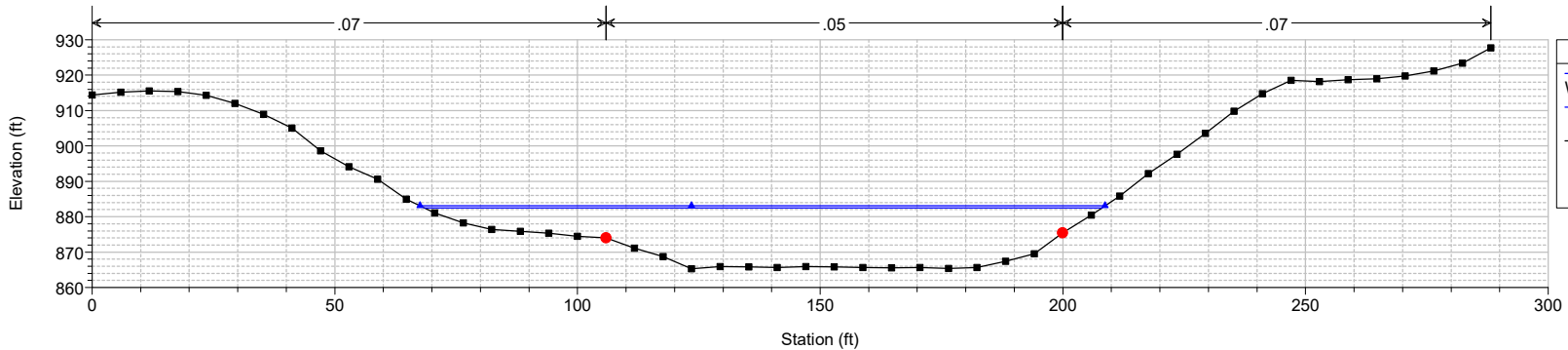
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 320913



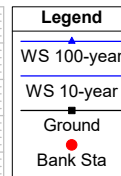
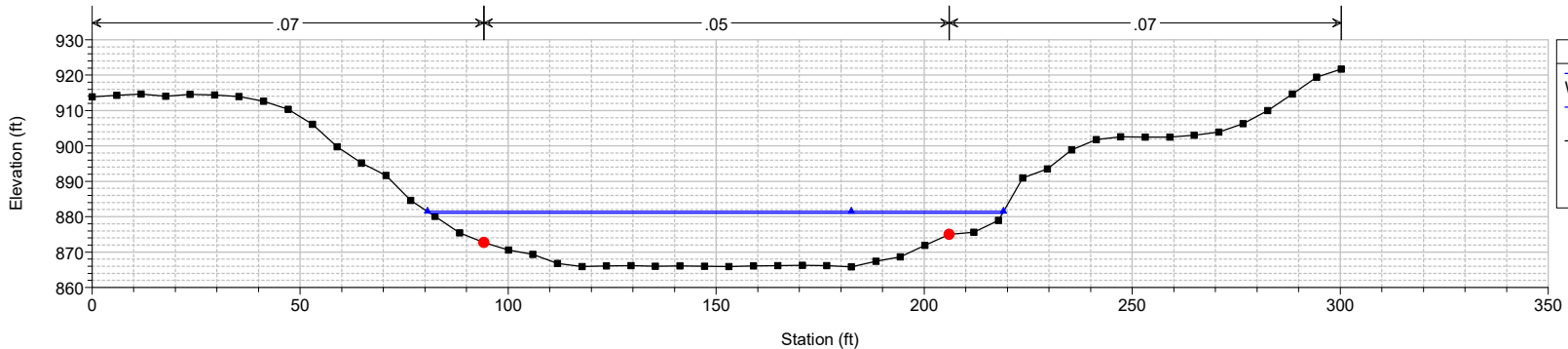
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 320401



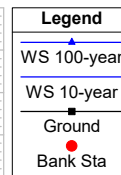
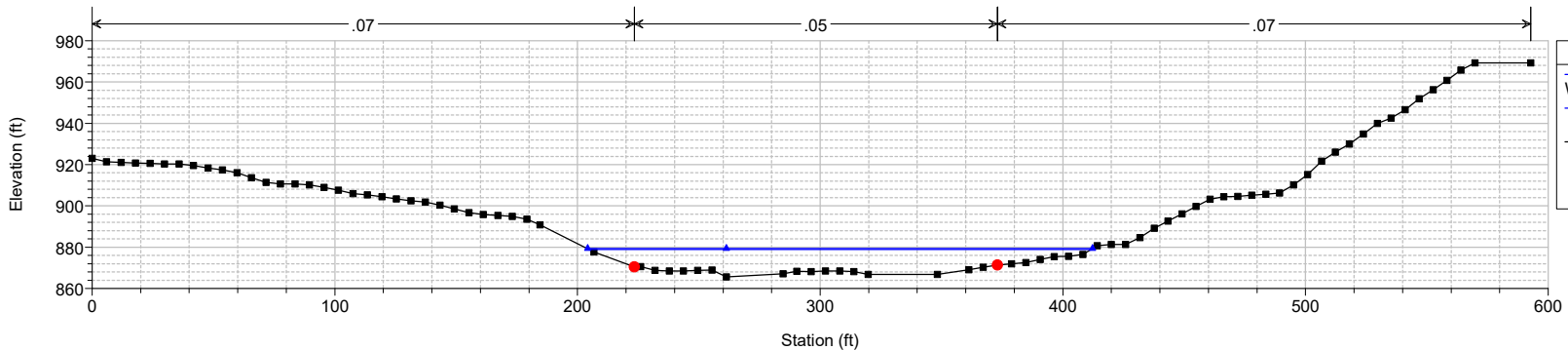
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 319910



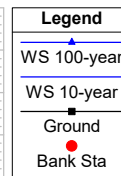
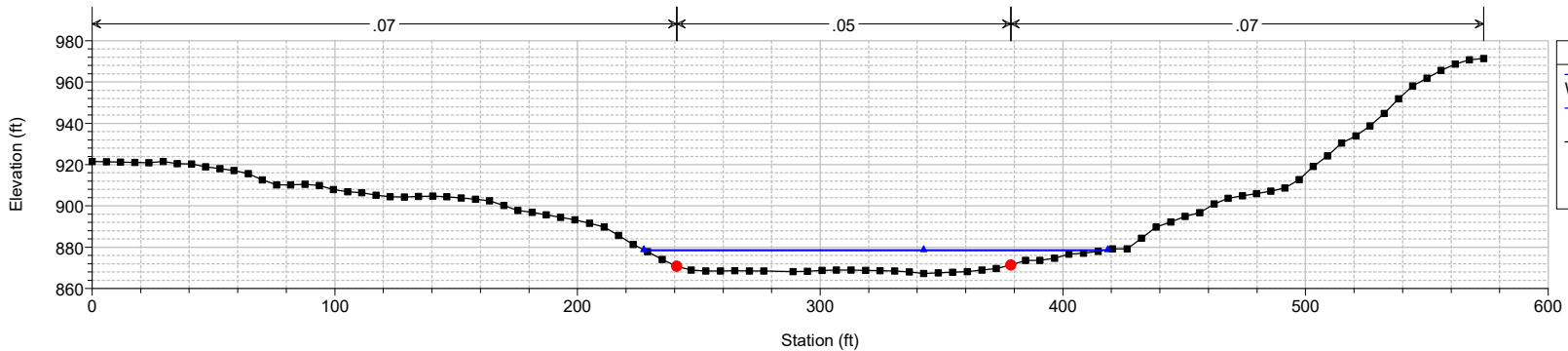
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 319419



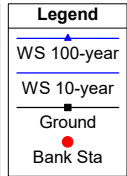
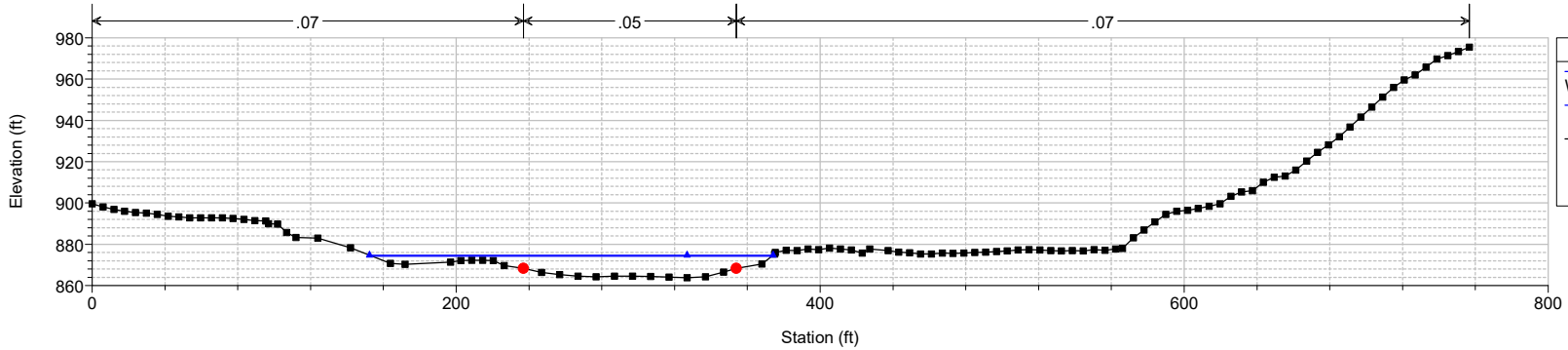
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 318690



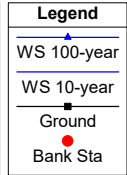
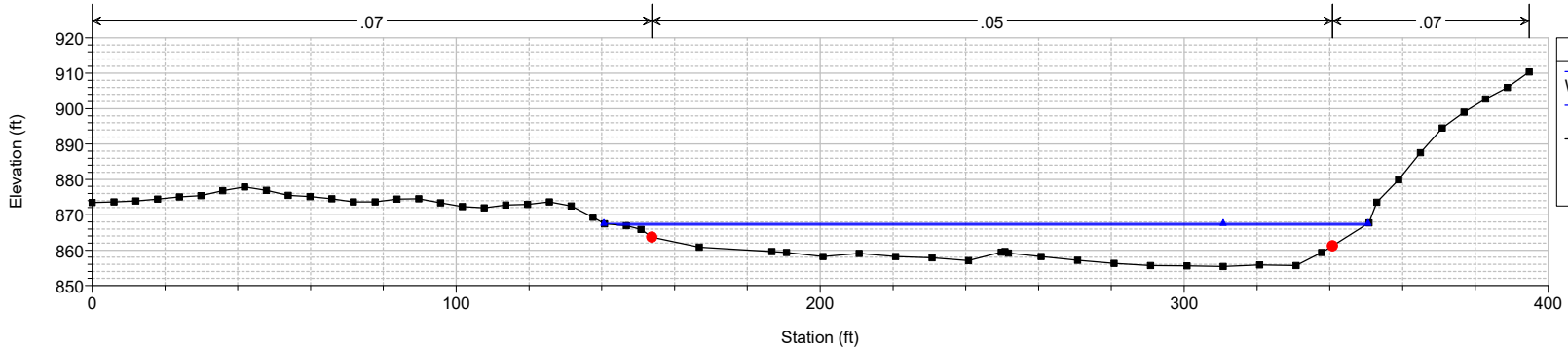
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 318664



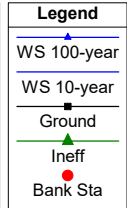
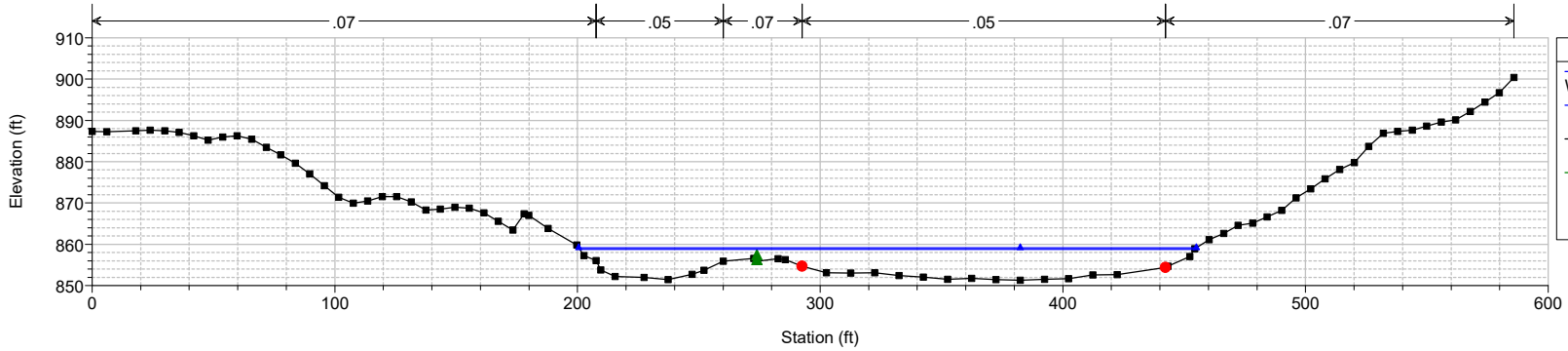
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 318109



LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 316832

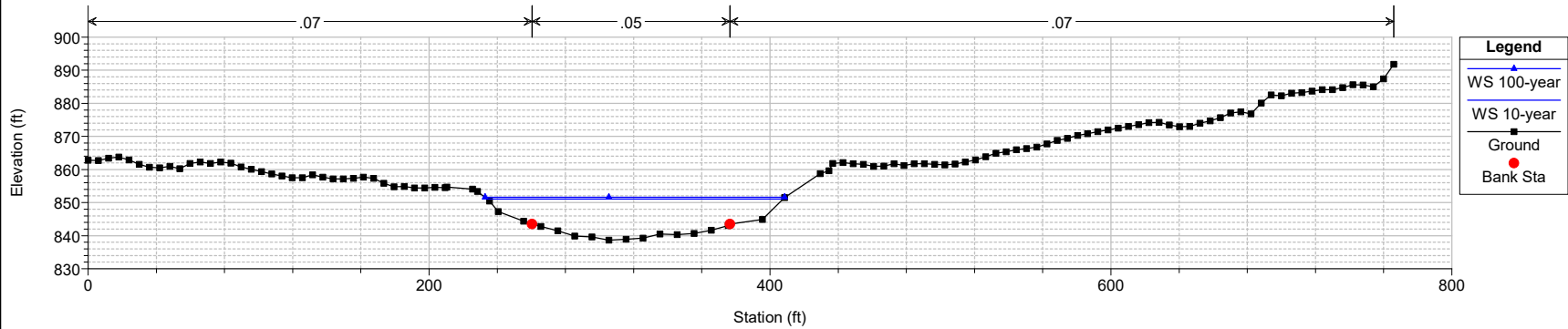


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 315623 KC (Erik 2016): Shifted LB Station in and added ineffective area

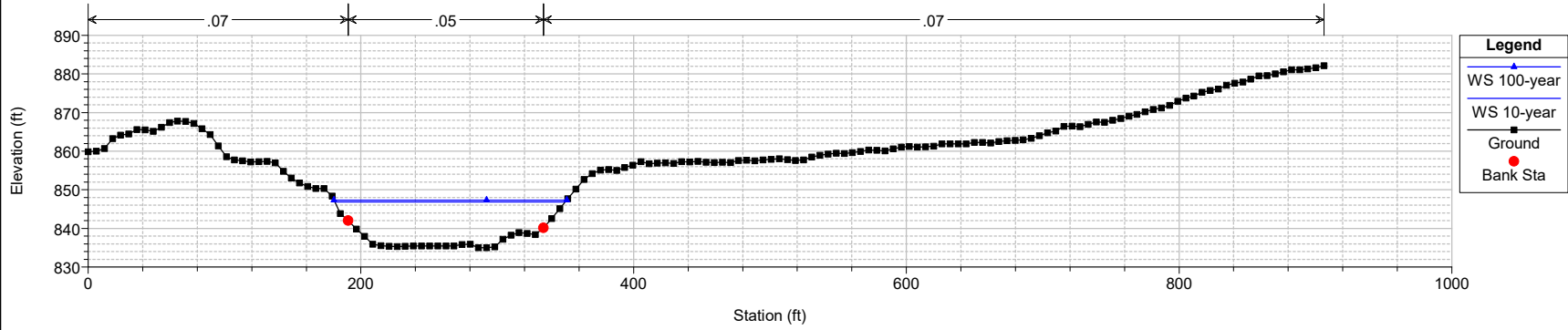




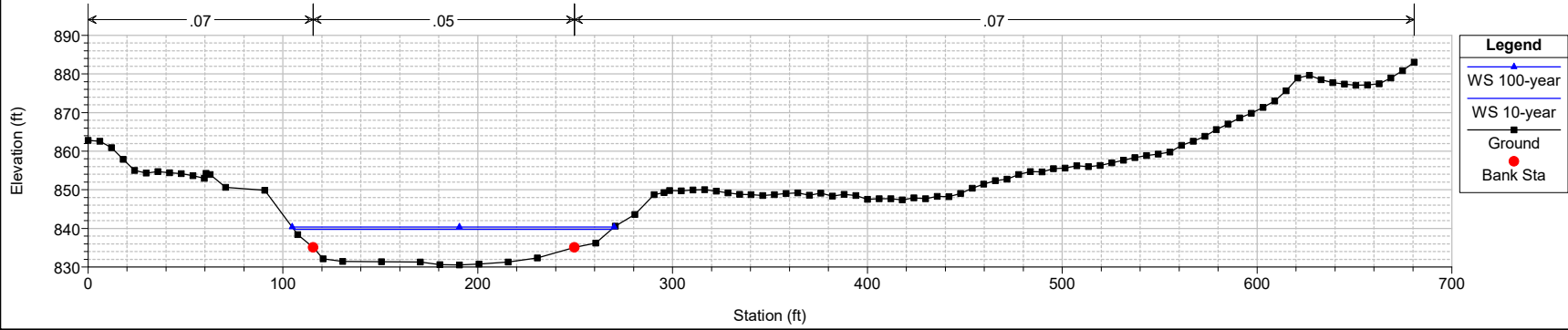
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RS = 314635

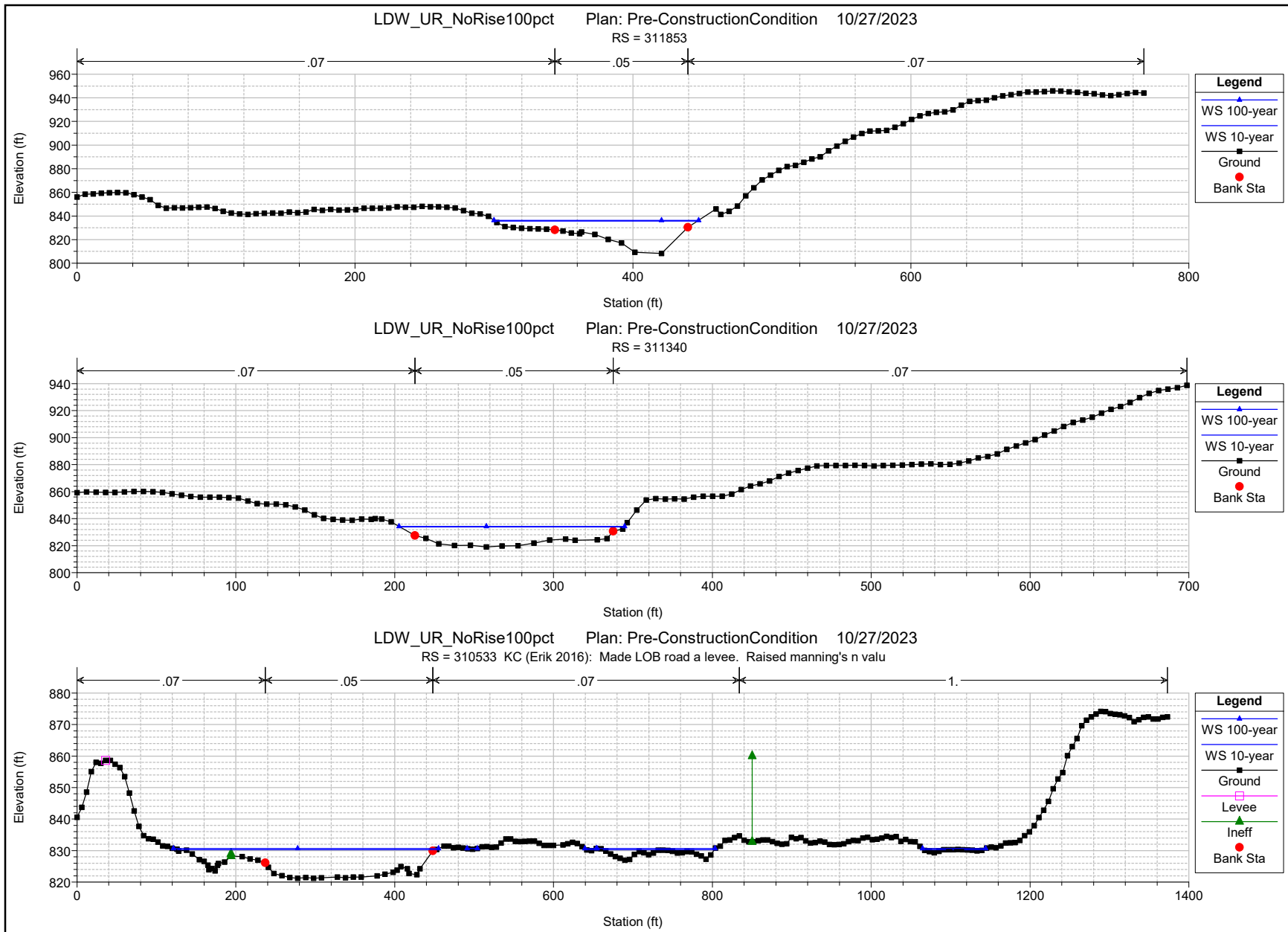


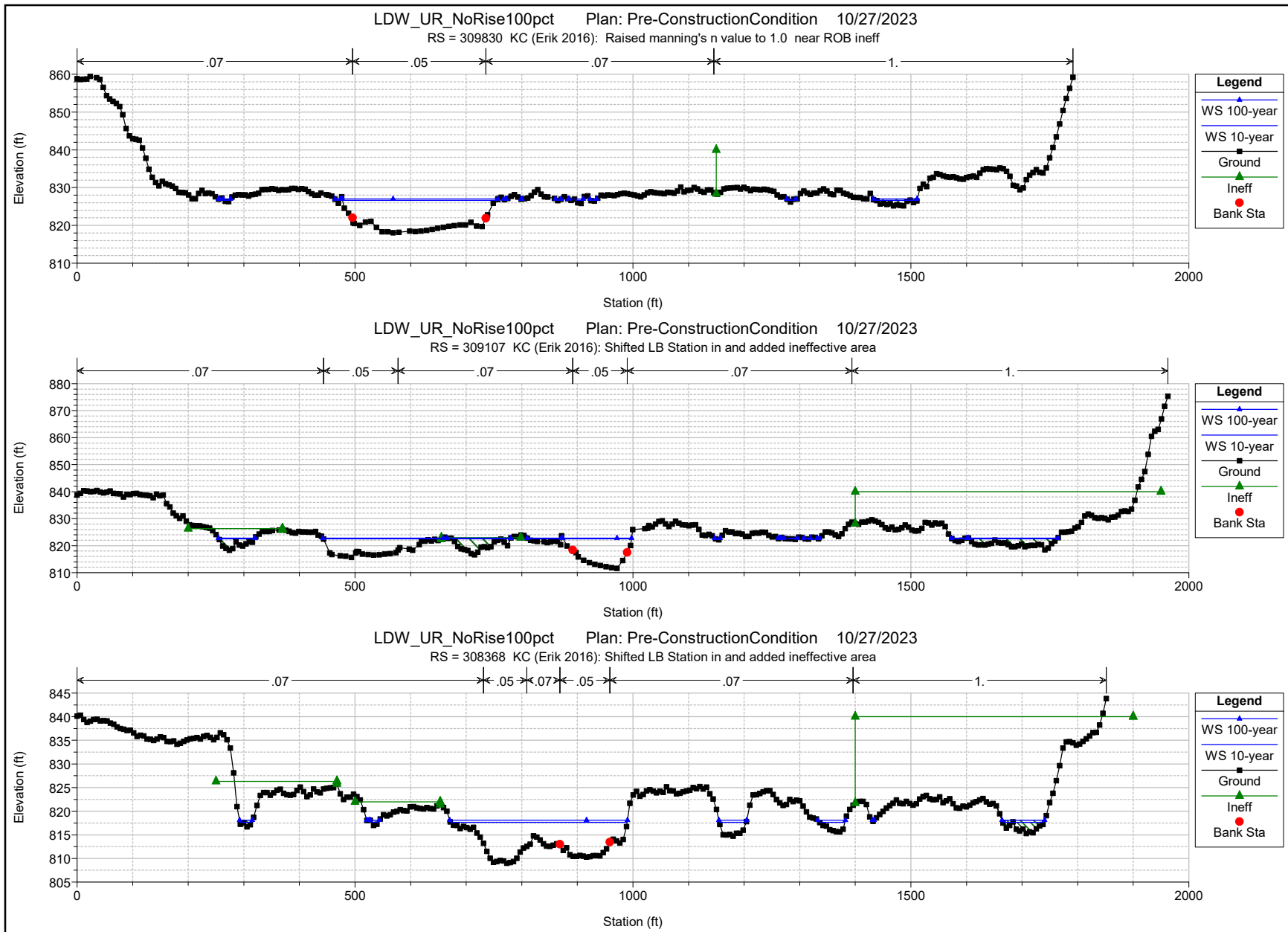
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 313801



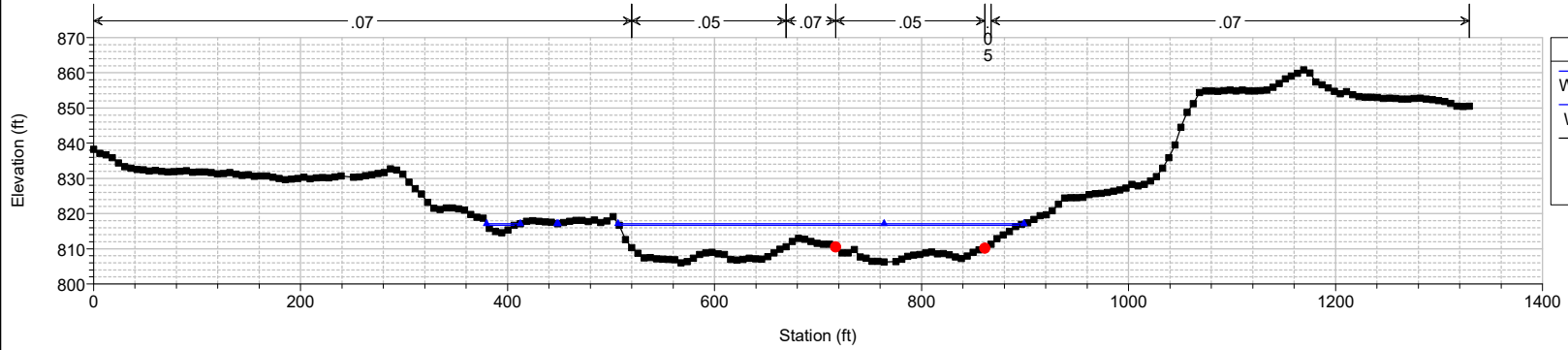
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RS = 312903



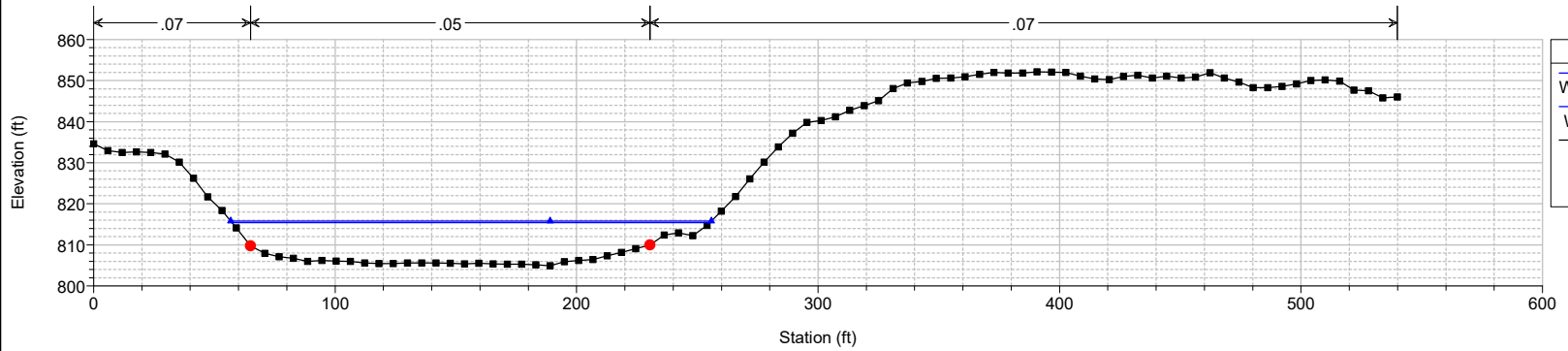




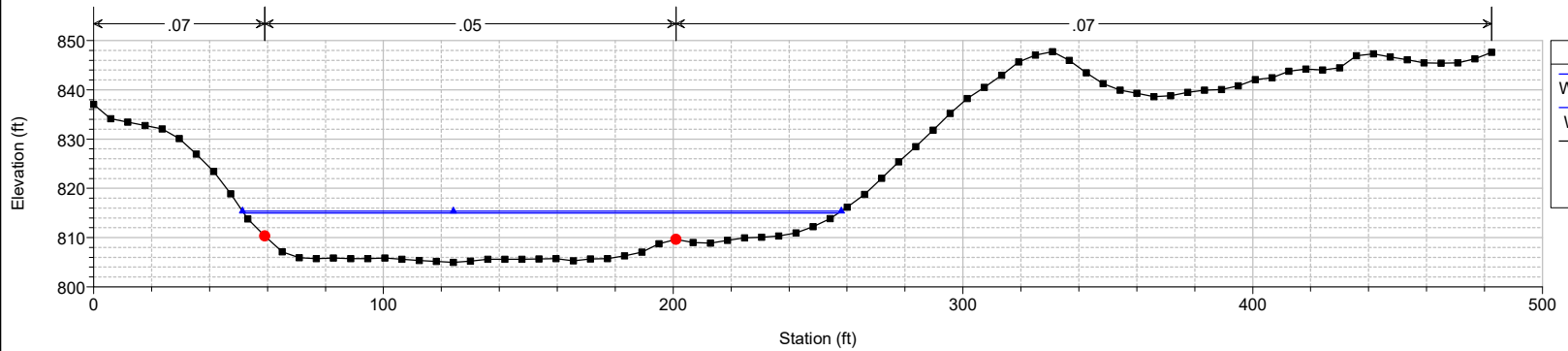
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 307956 KC (Erik 2016): Raised n value of LOB side channel to 0.05 from



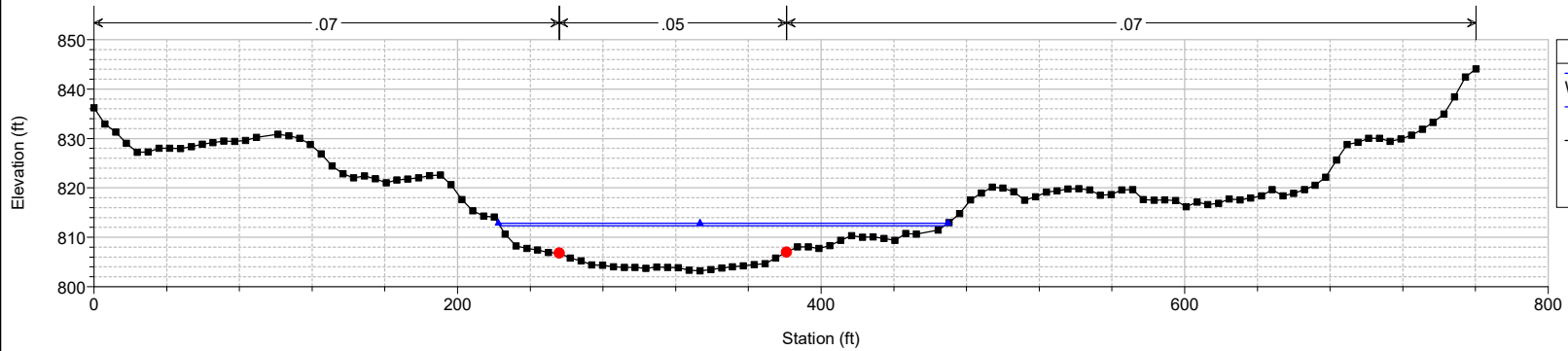
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 307708



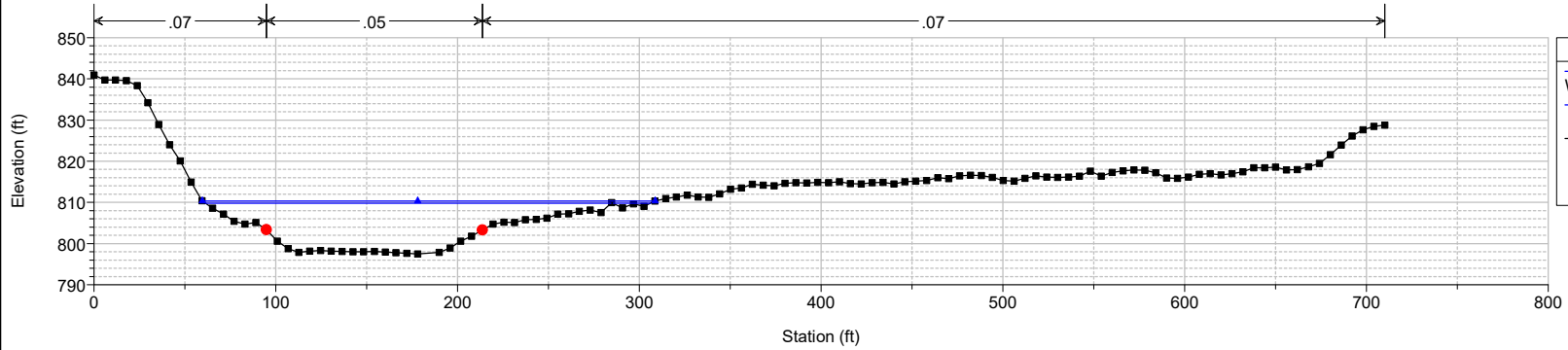
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 307660



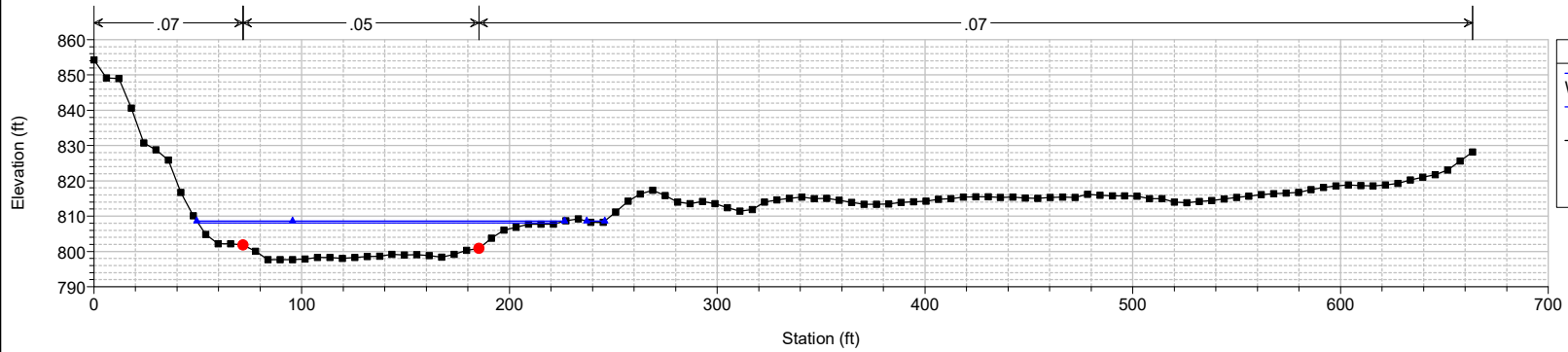
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RS = 307402



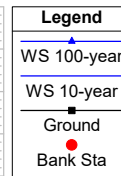
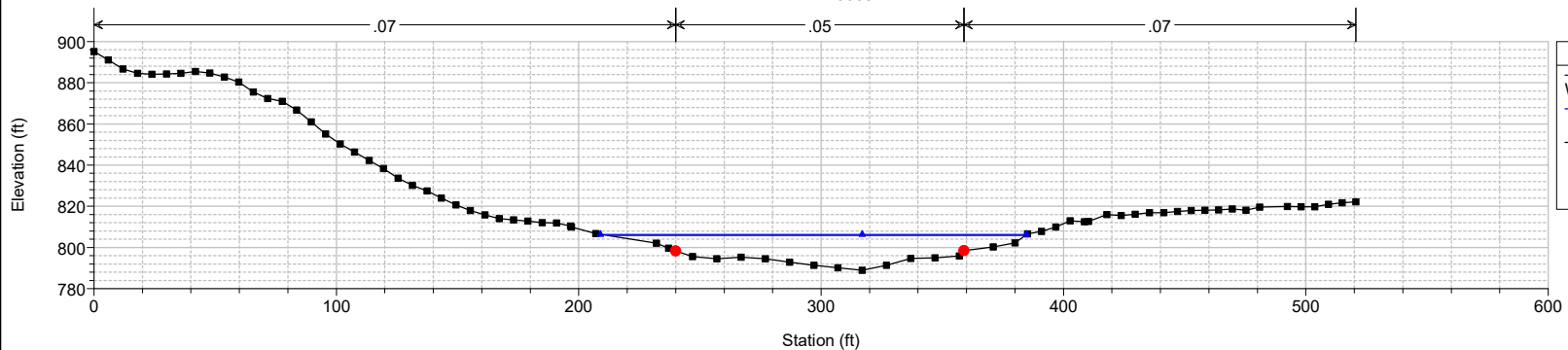
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RS = 306984



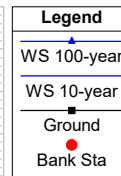
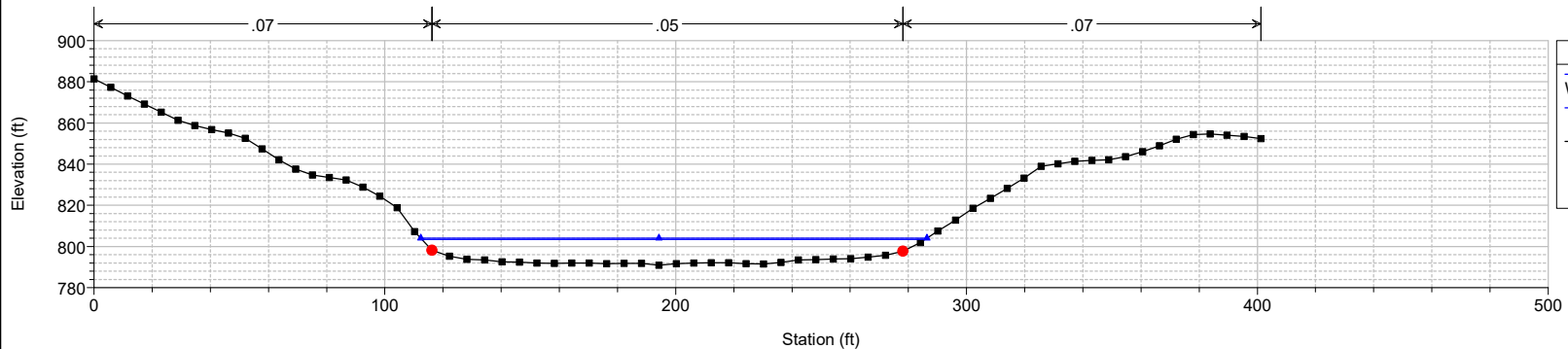
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RS = 306816



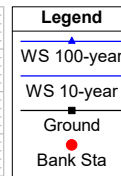
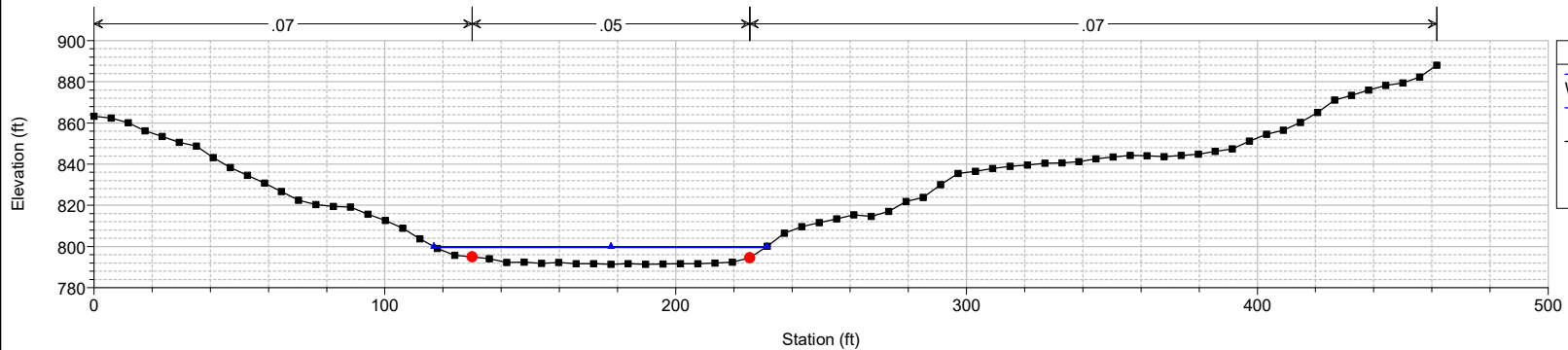
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 306324

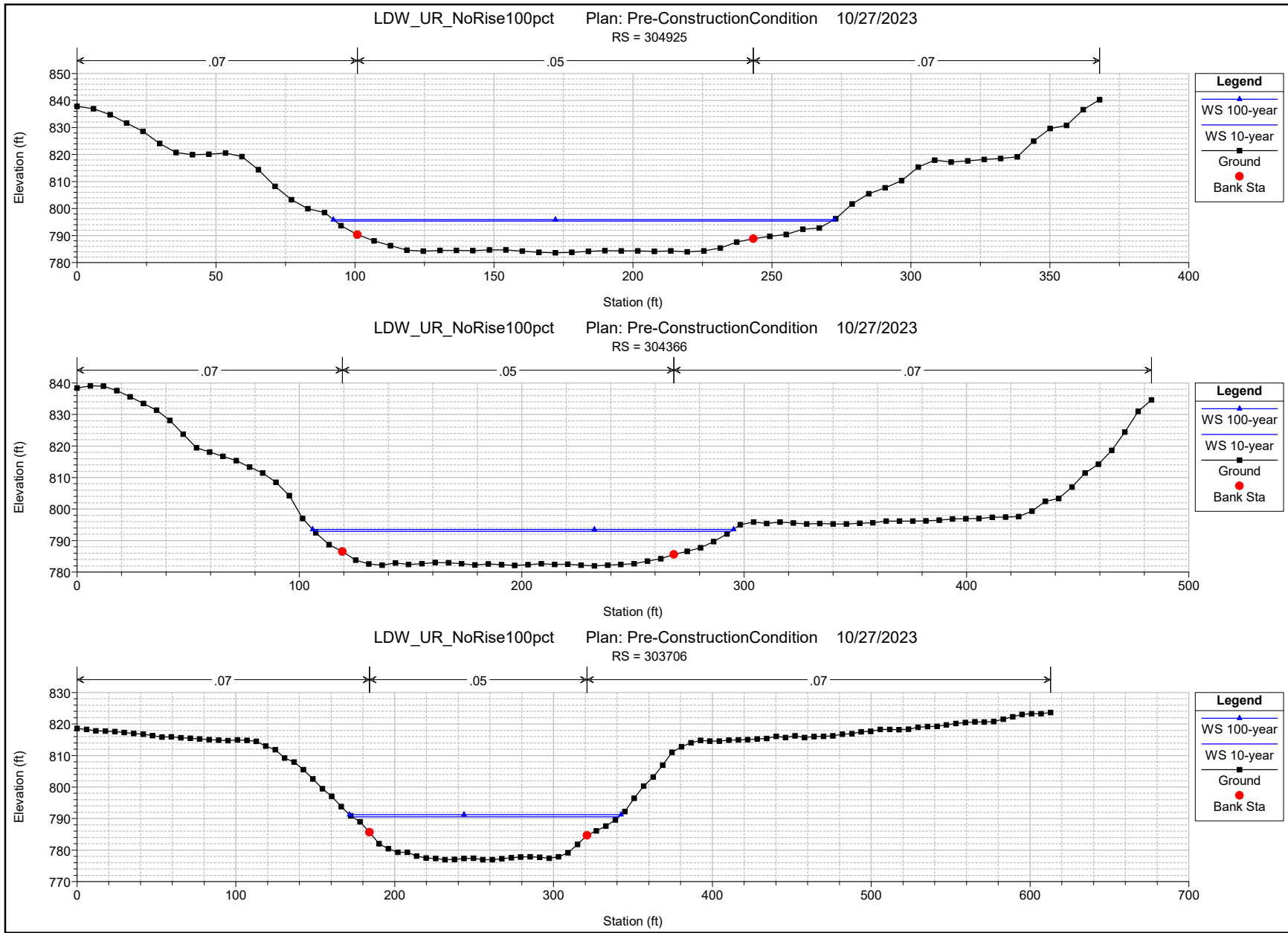


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 305628

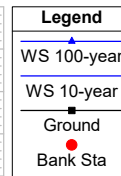
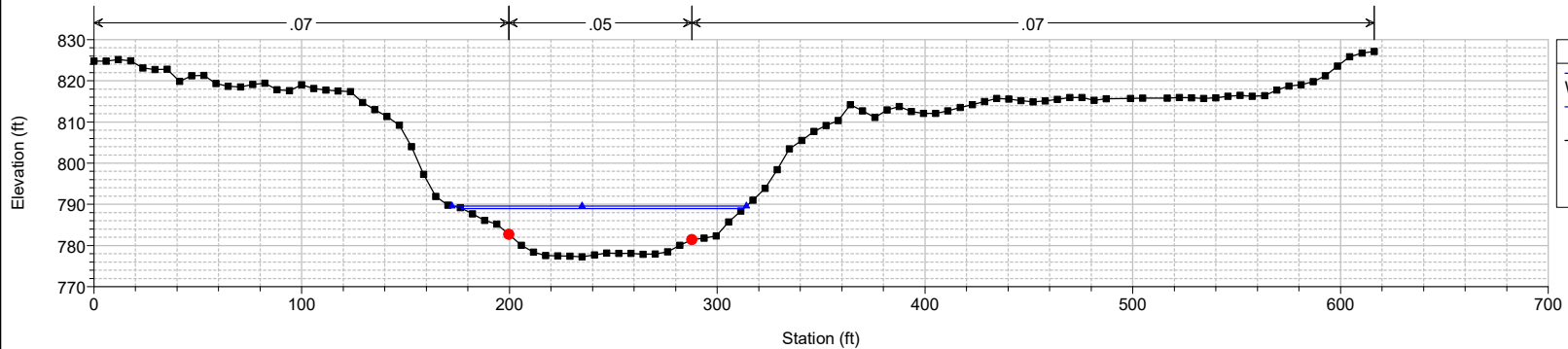


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 305538

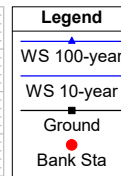
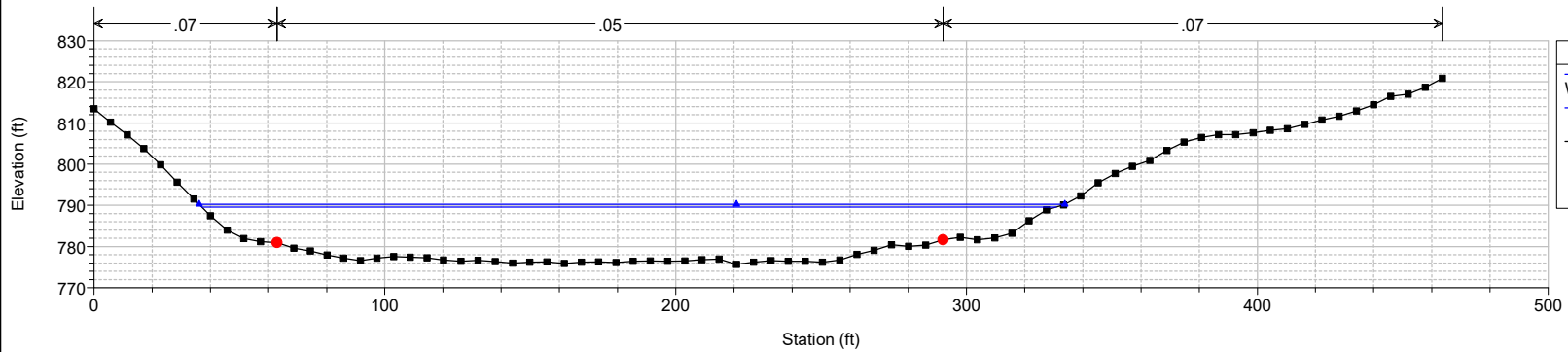




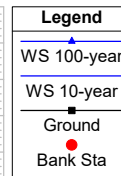
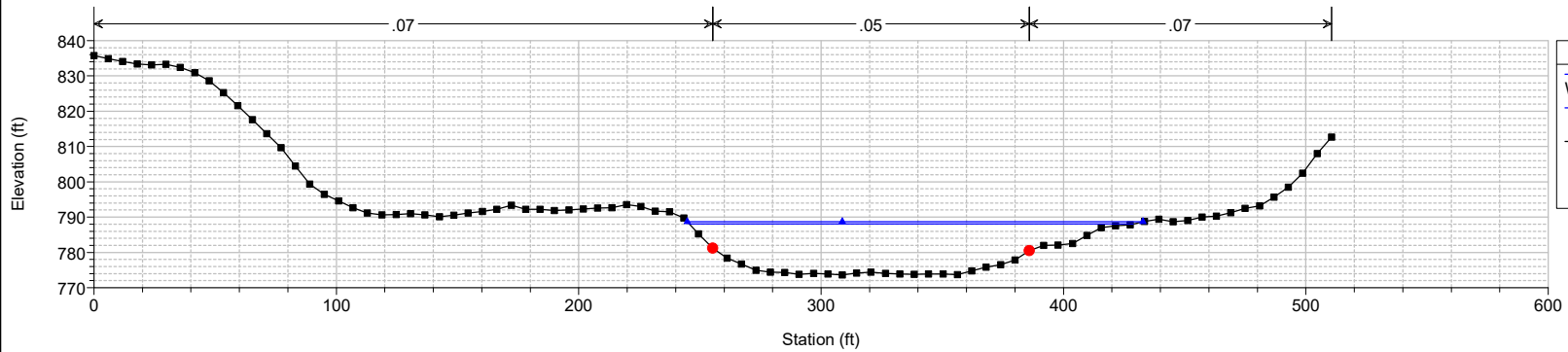
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 303637



LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 303405

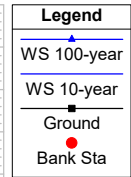
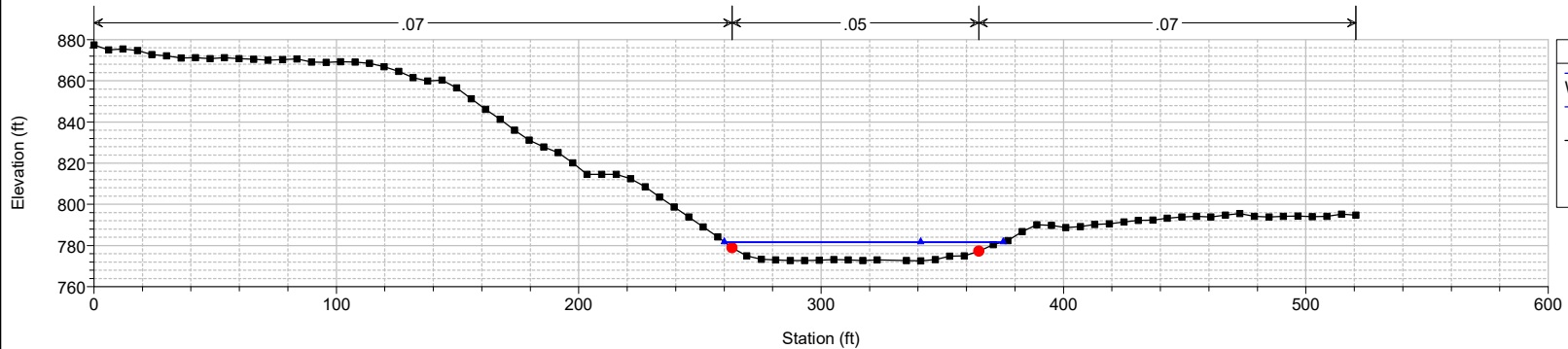


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 302639

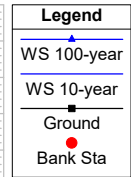
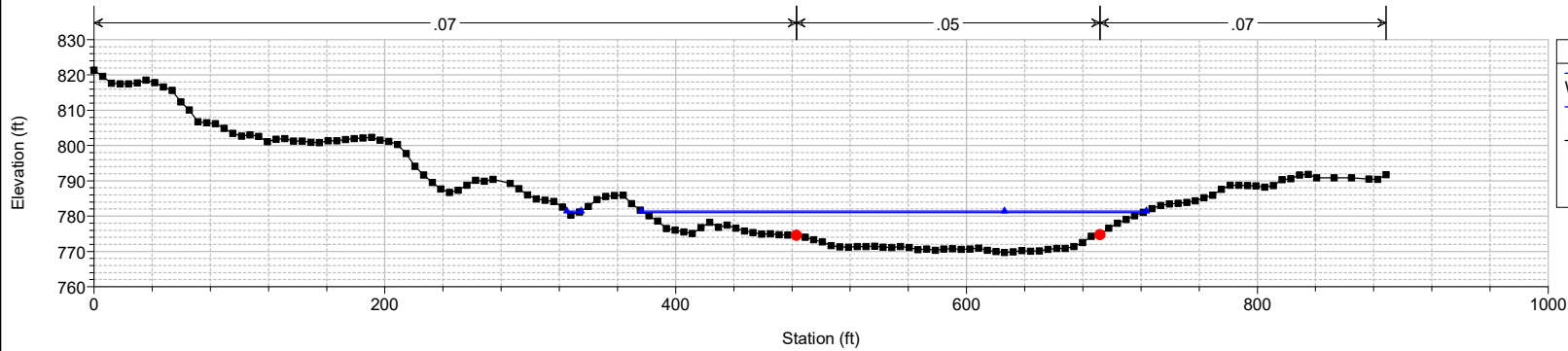




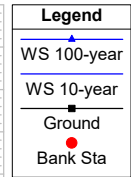
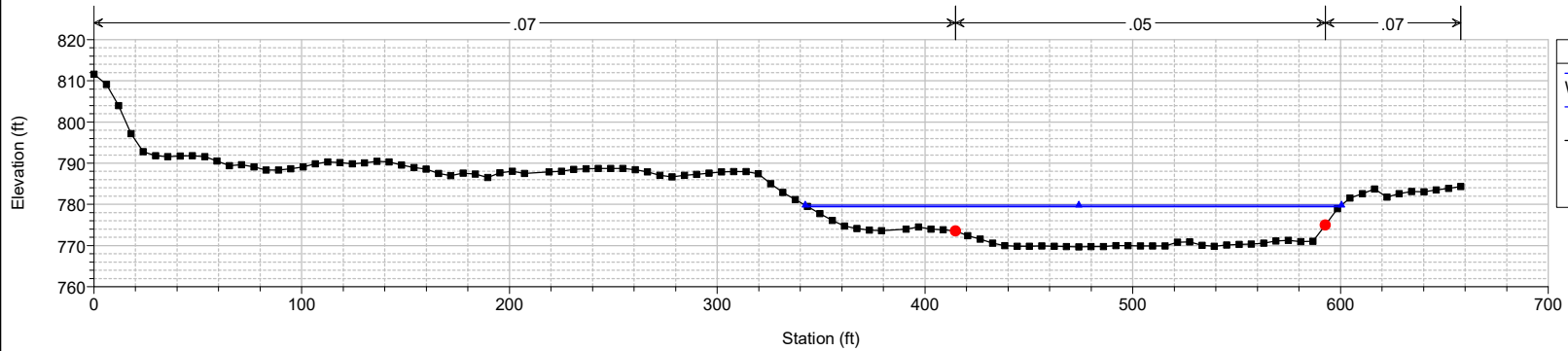
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RS = 301942



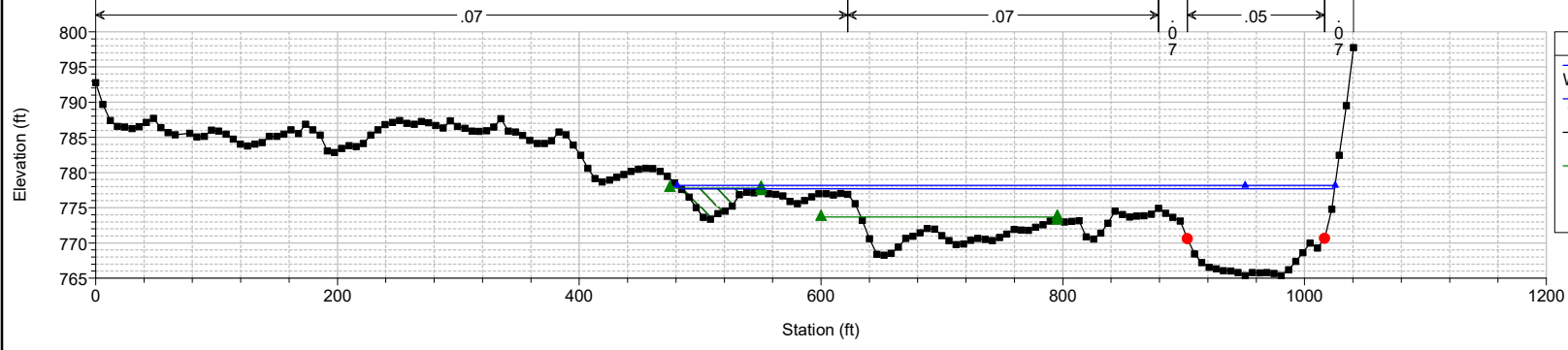
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 301509



LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 301066



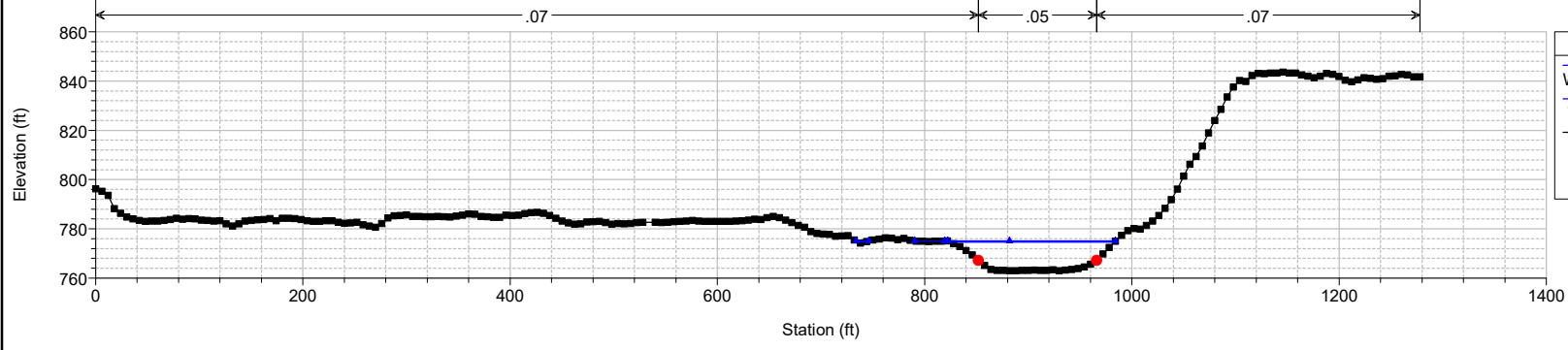
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 300464 KC (Erik 2016): Broke up LOB n value into multiple zones of sam



**Legend**

- WS 100-year
- WS 10-year
- Ground
- Ineff
- Bank Sta

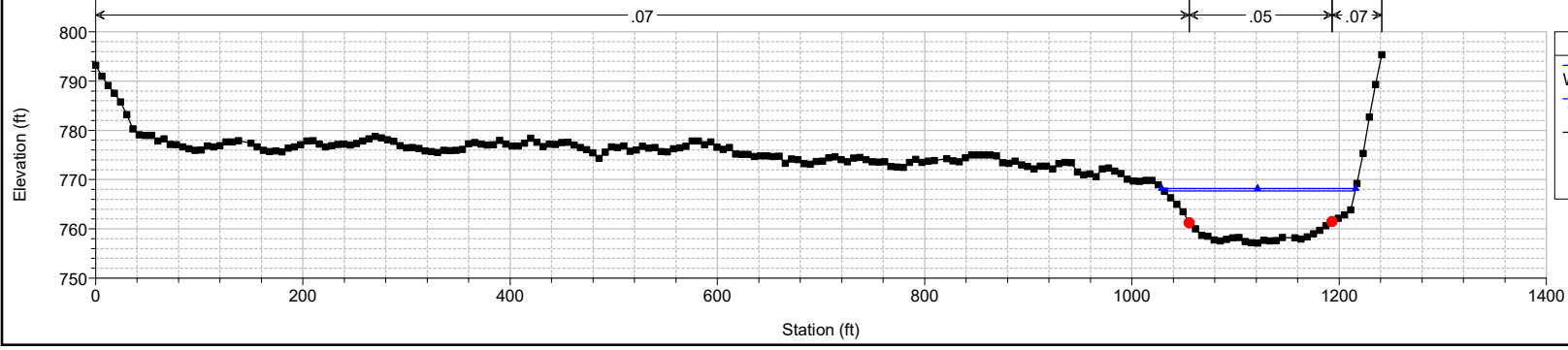
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 299856



**Legend**

- WS 100-year
- WS 10-year
- Ground
- Bank Sta

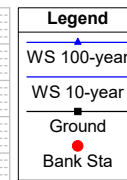
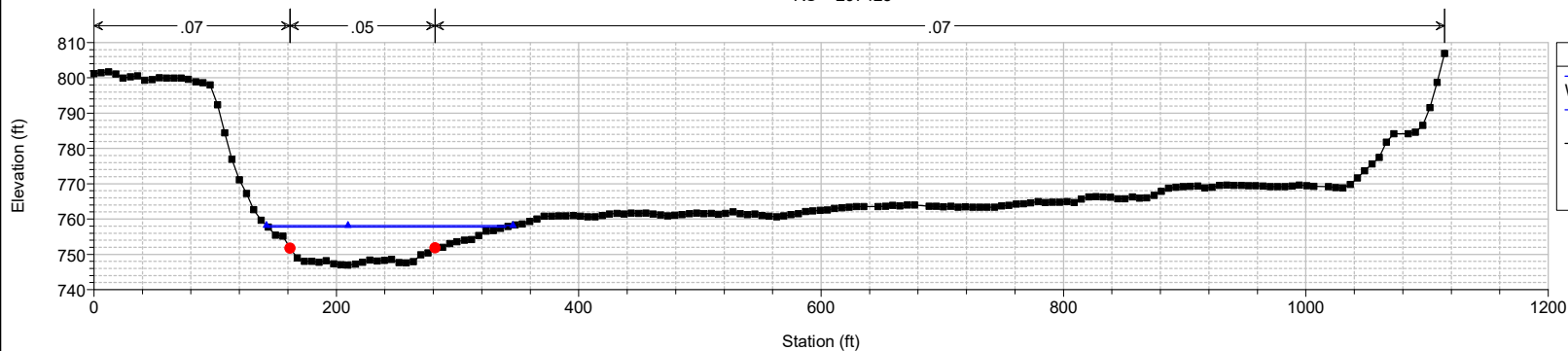
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 298758



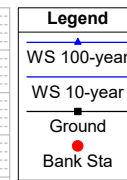
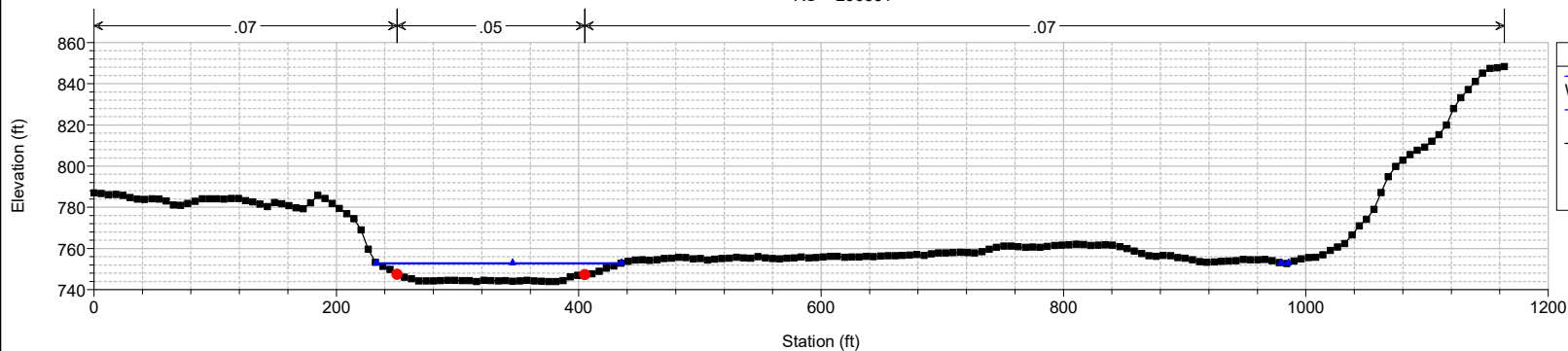
**Legend**

- WS 100-year
- WS 10-year
- Ground
- Bank Sta

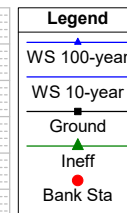
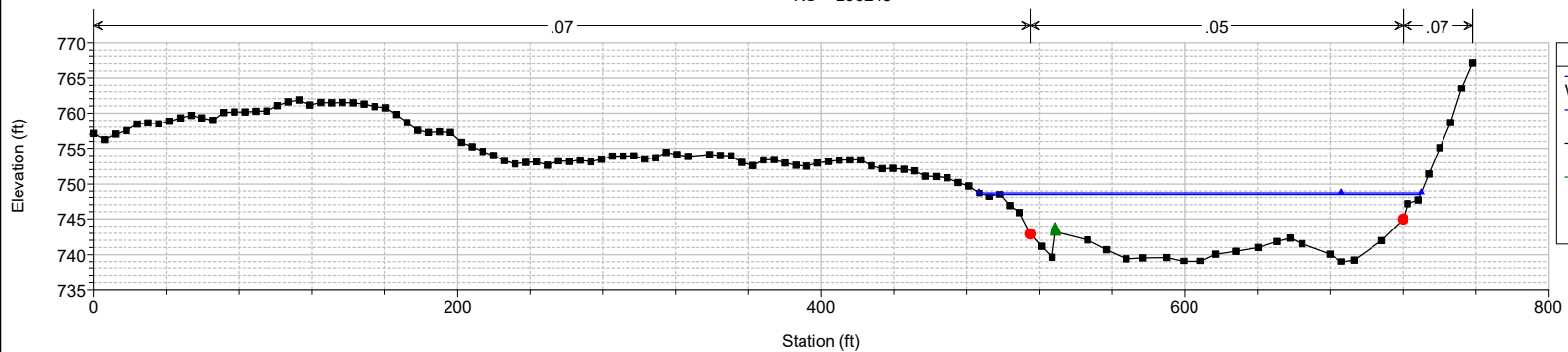
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 297428



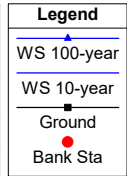
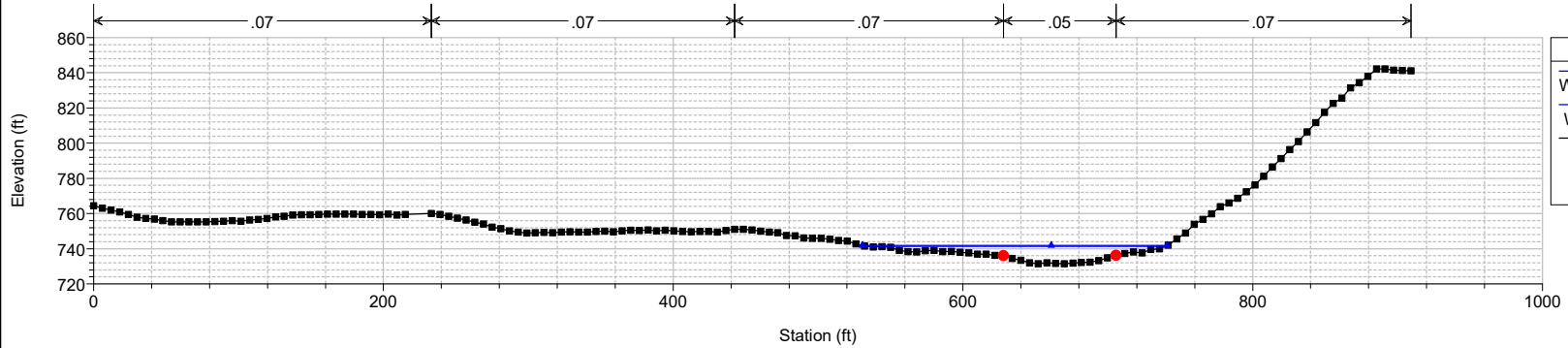
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 296831



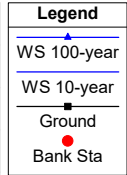
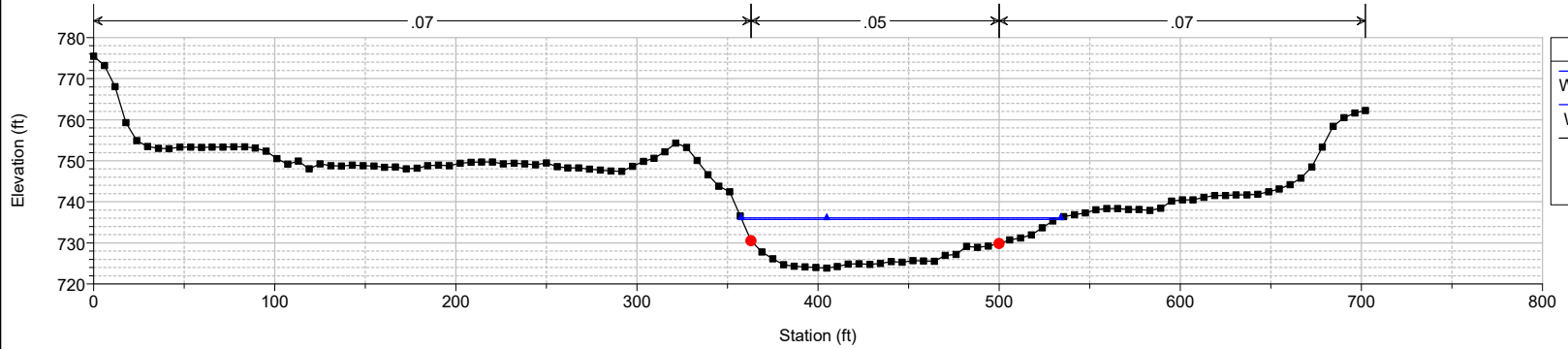
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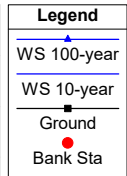
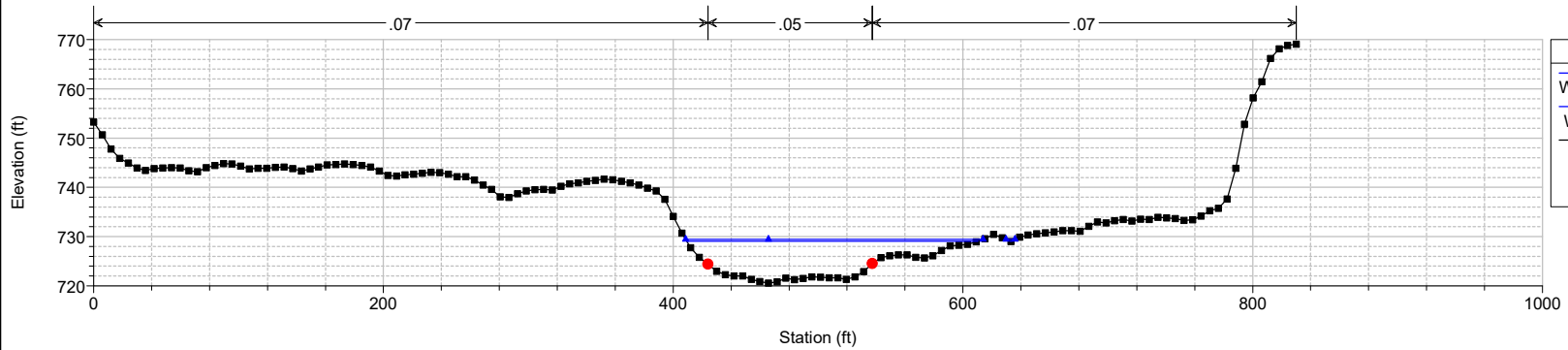
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 295786 KC (Erik 2016): Broke up LOB n value into multiple zones of sam



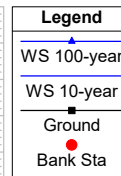
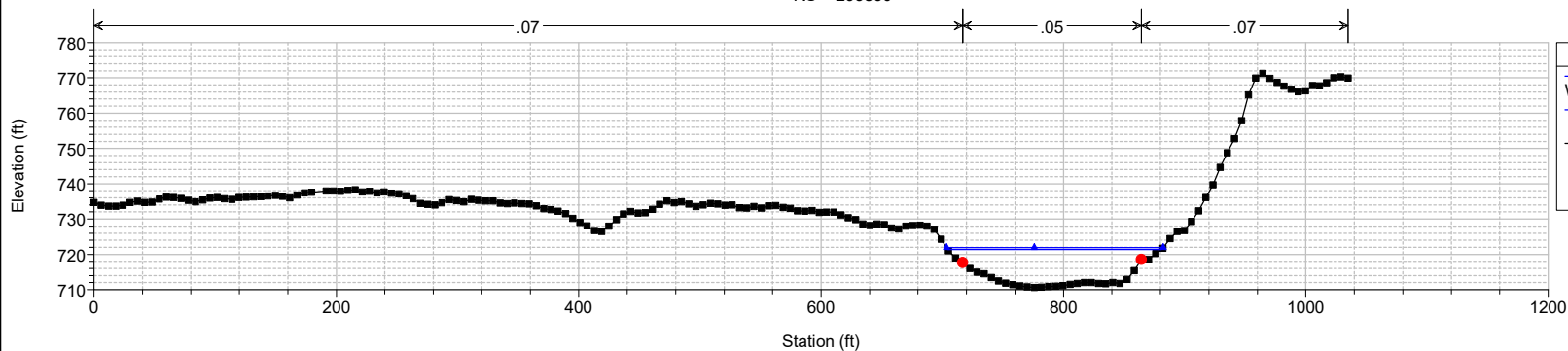
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RS = 295136



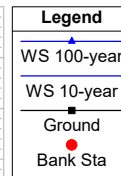
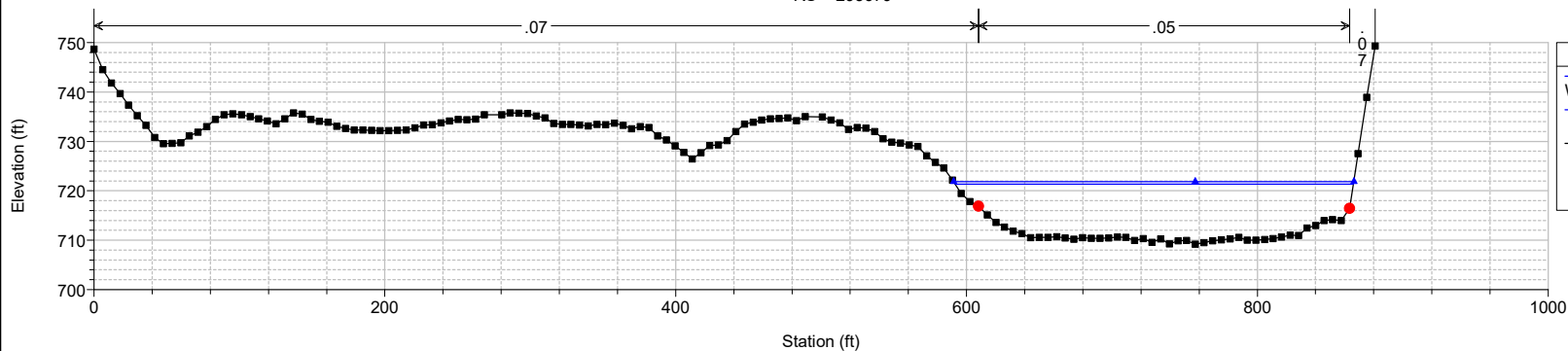
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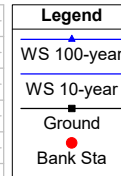
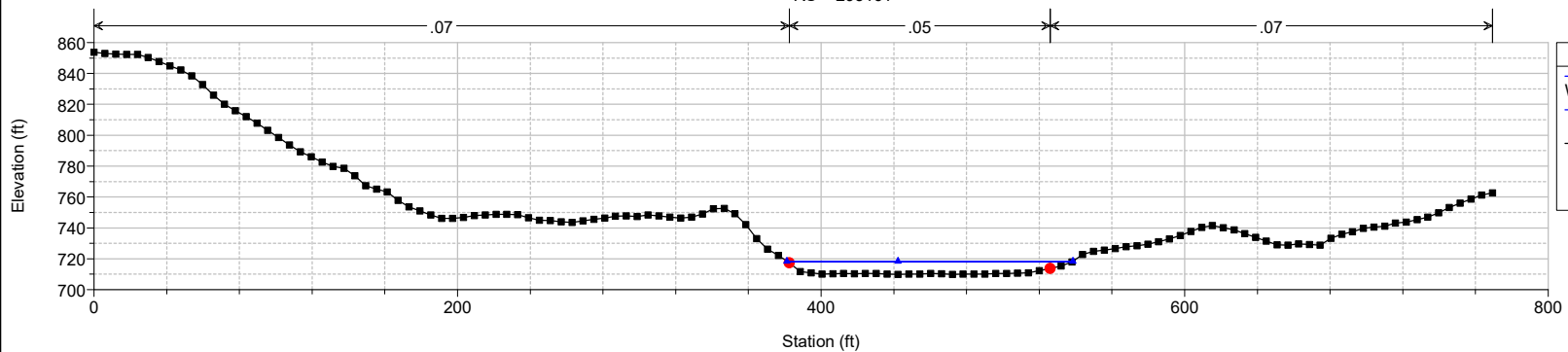
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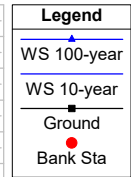
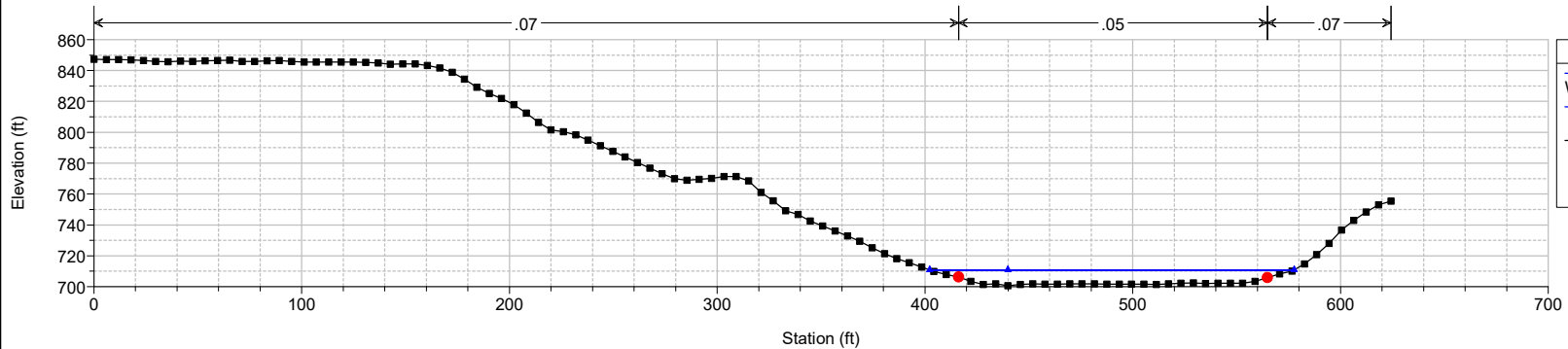
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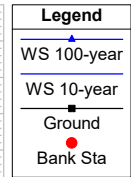
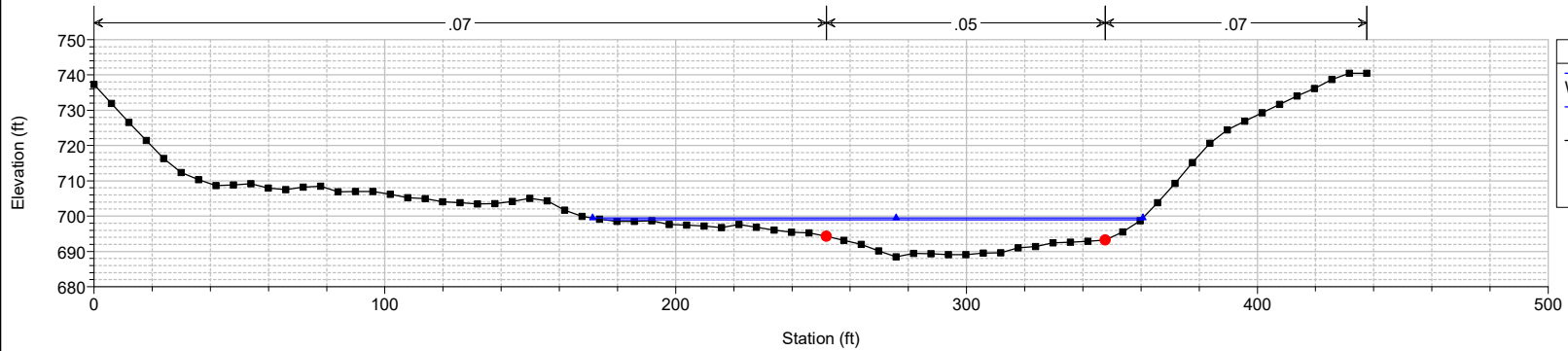
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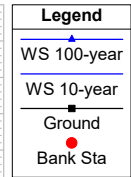
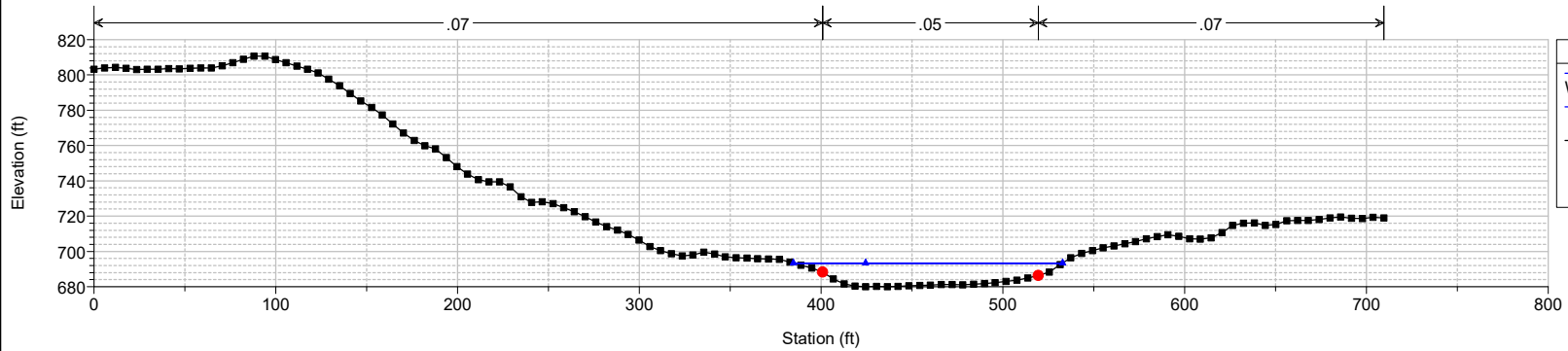
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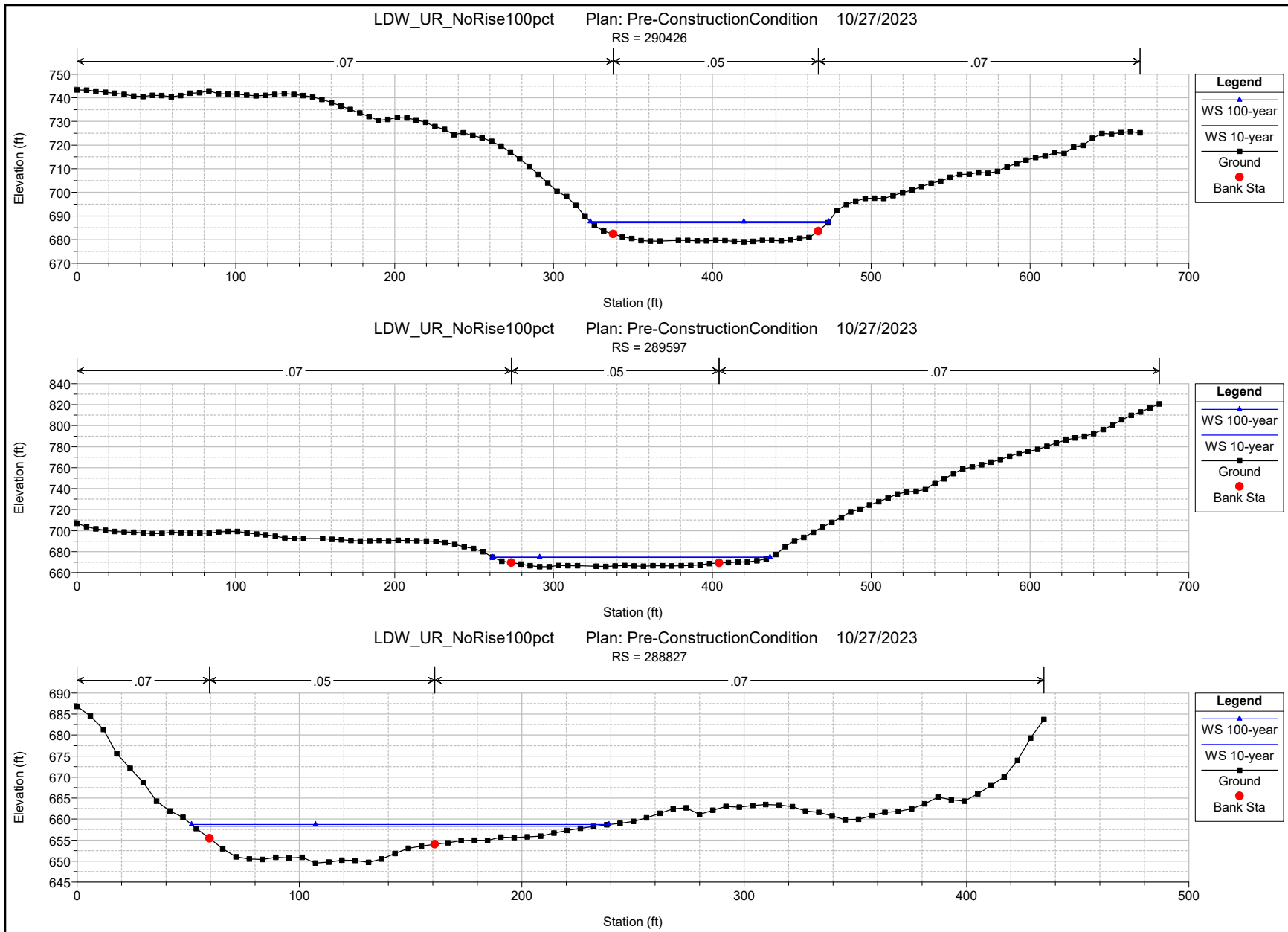


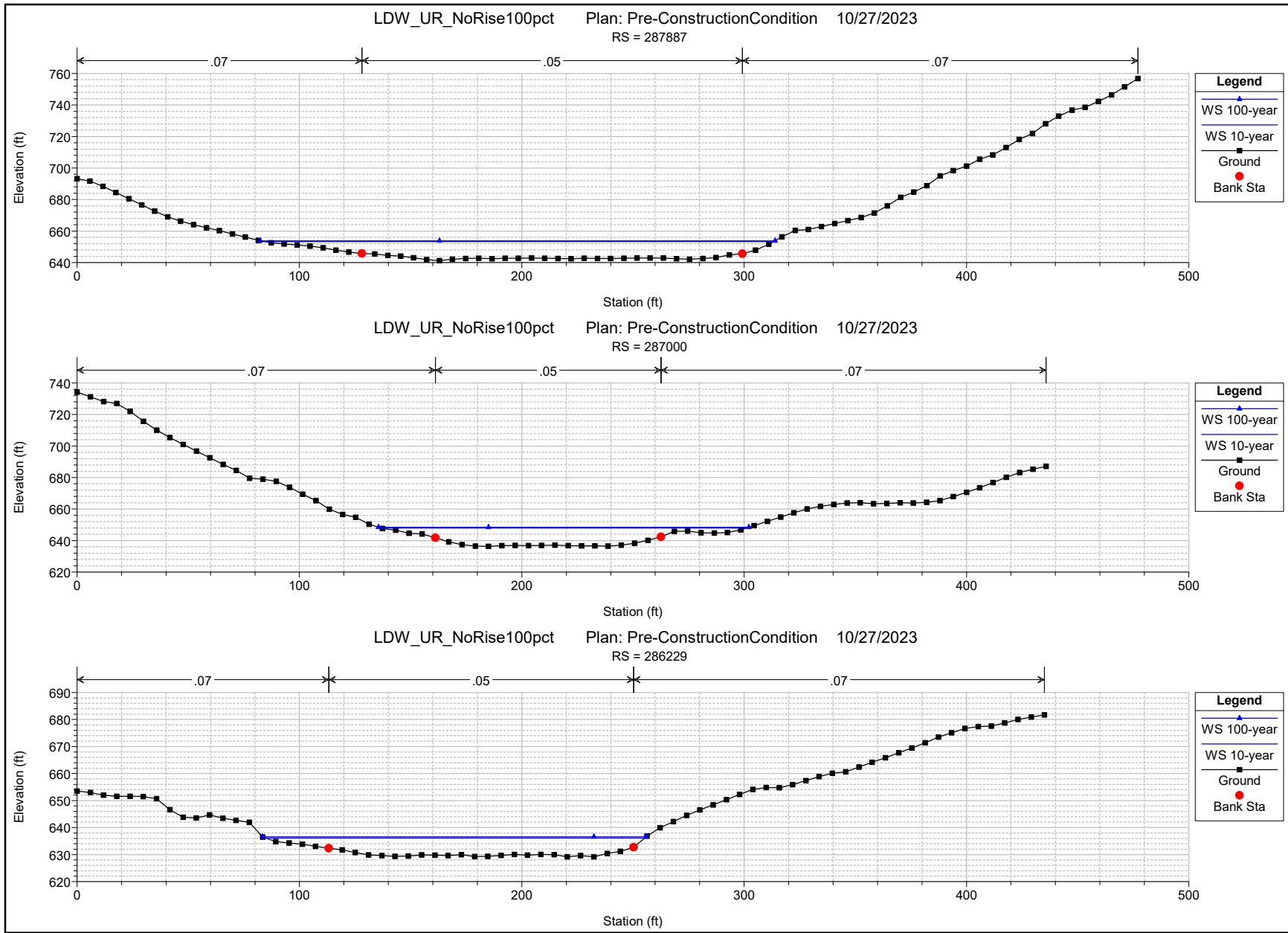
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LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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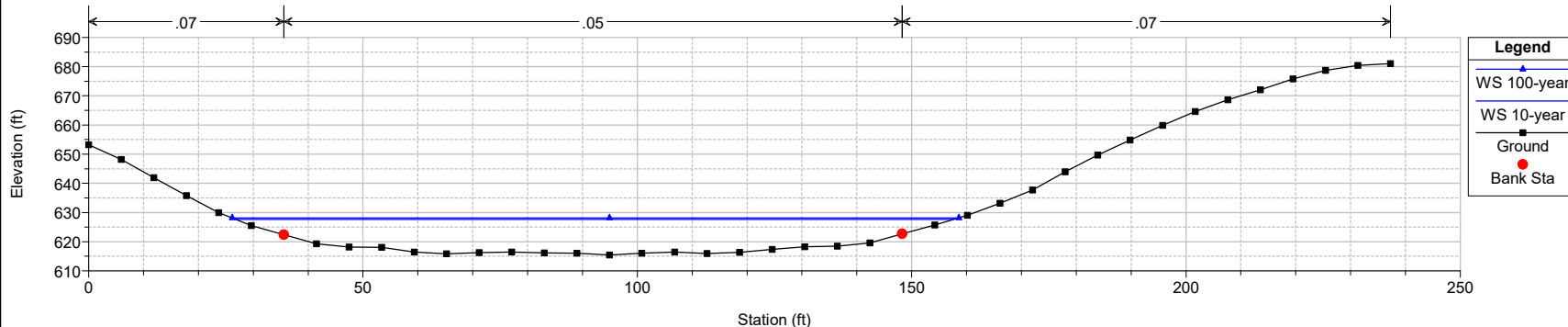




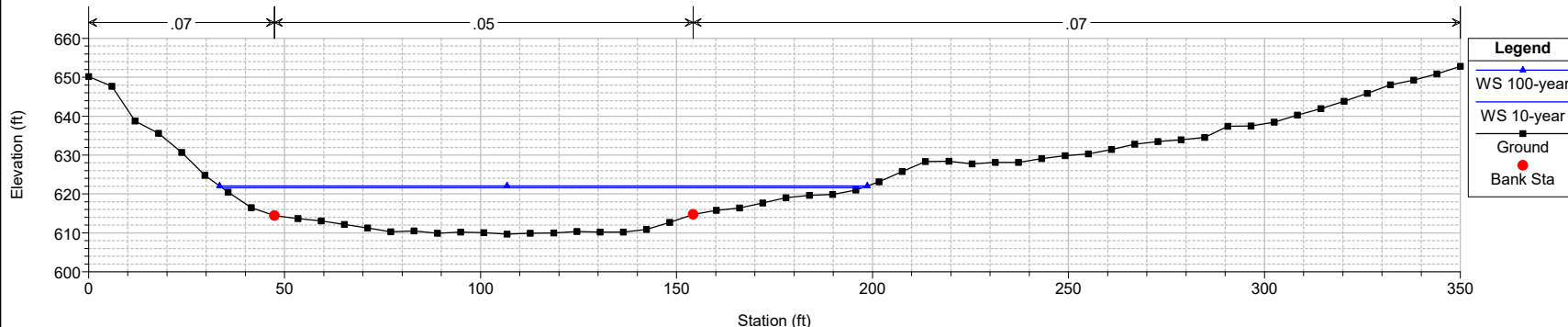




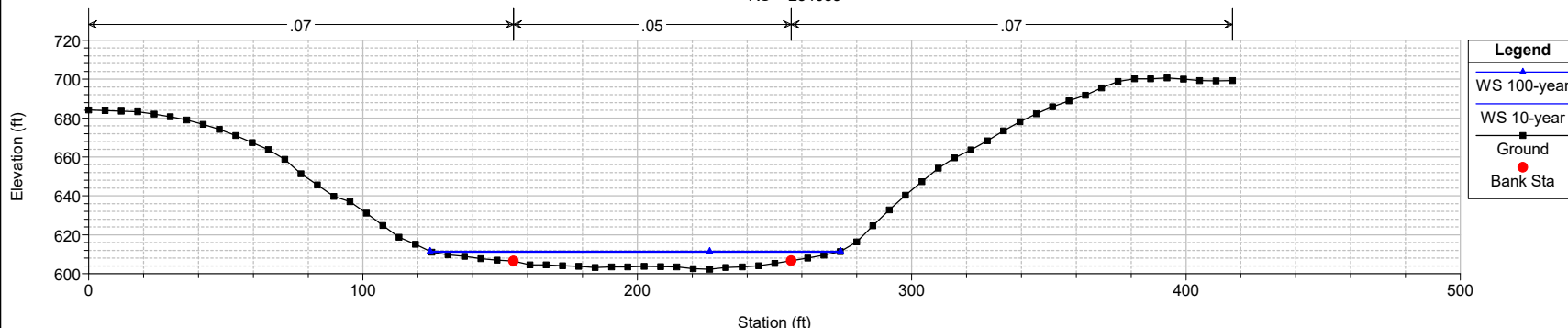
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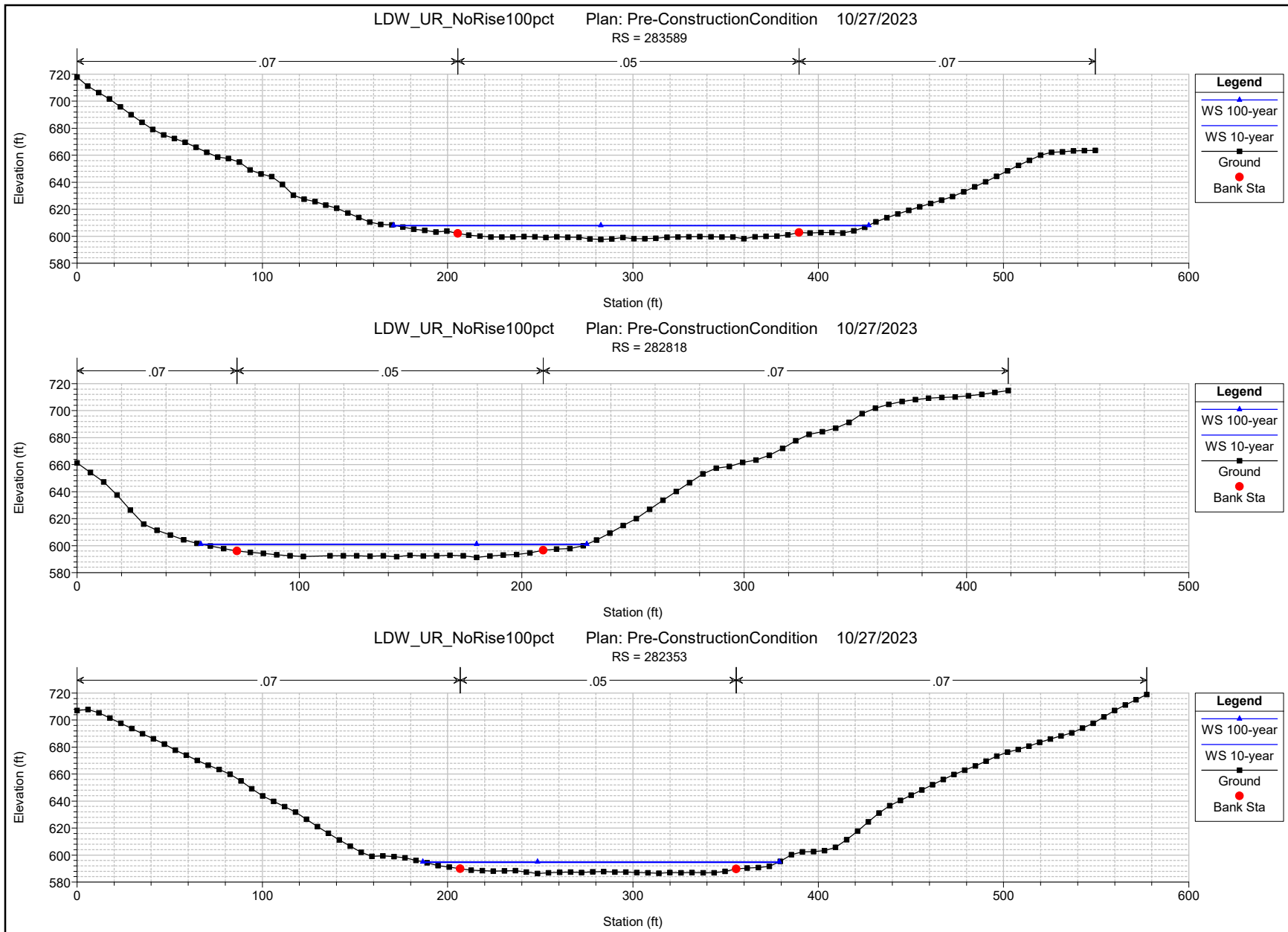


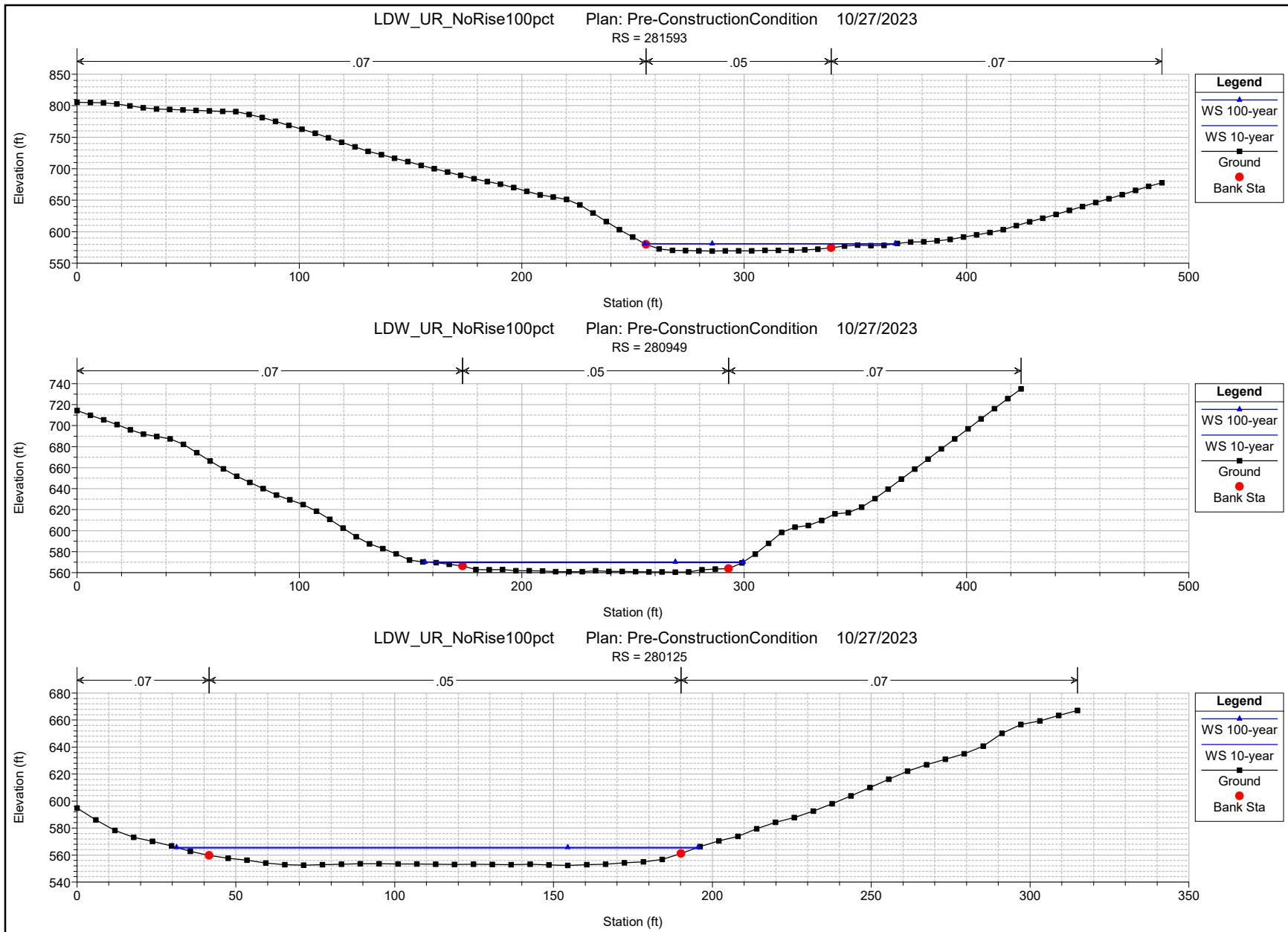
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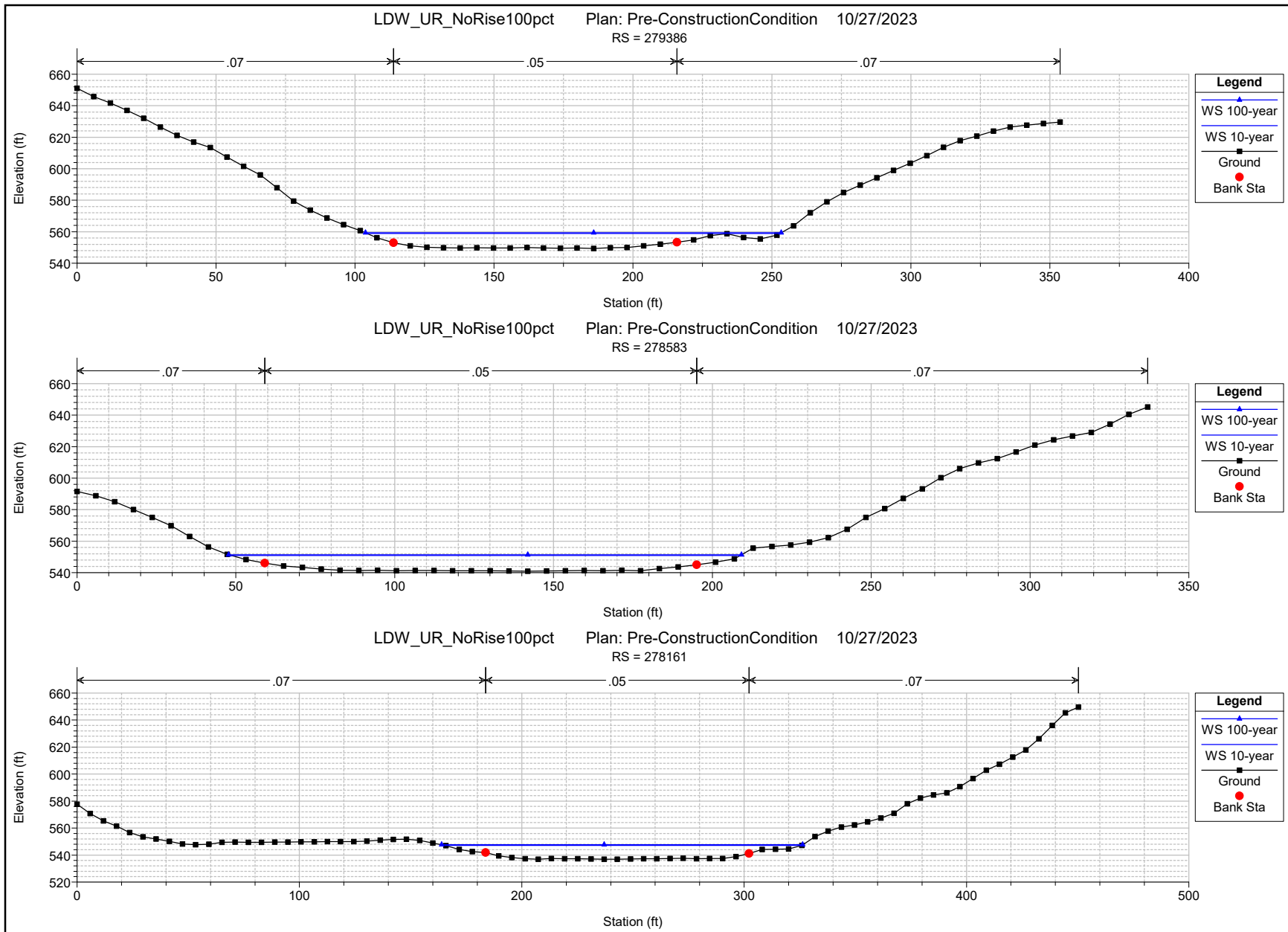


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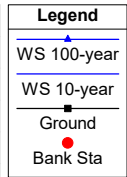
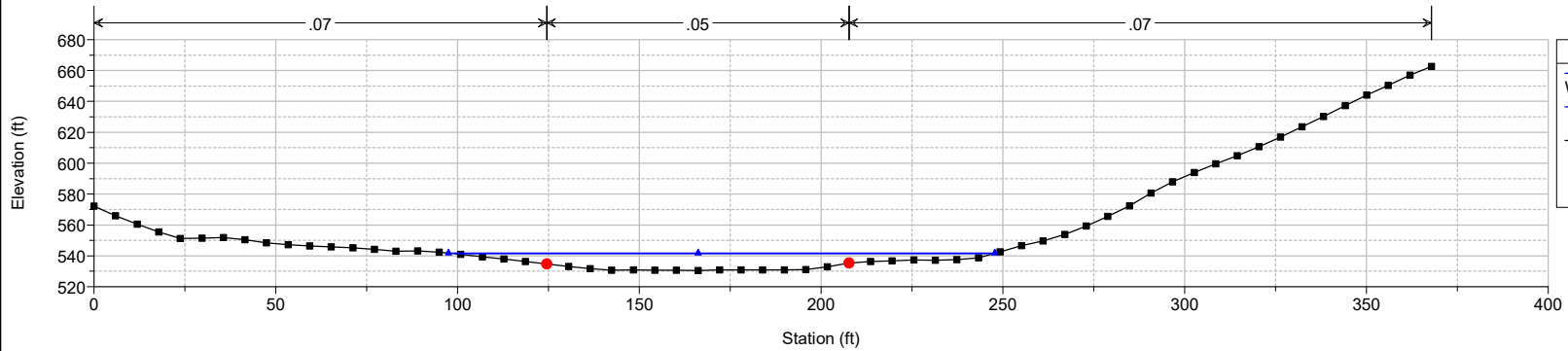




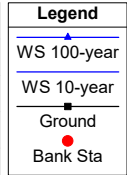
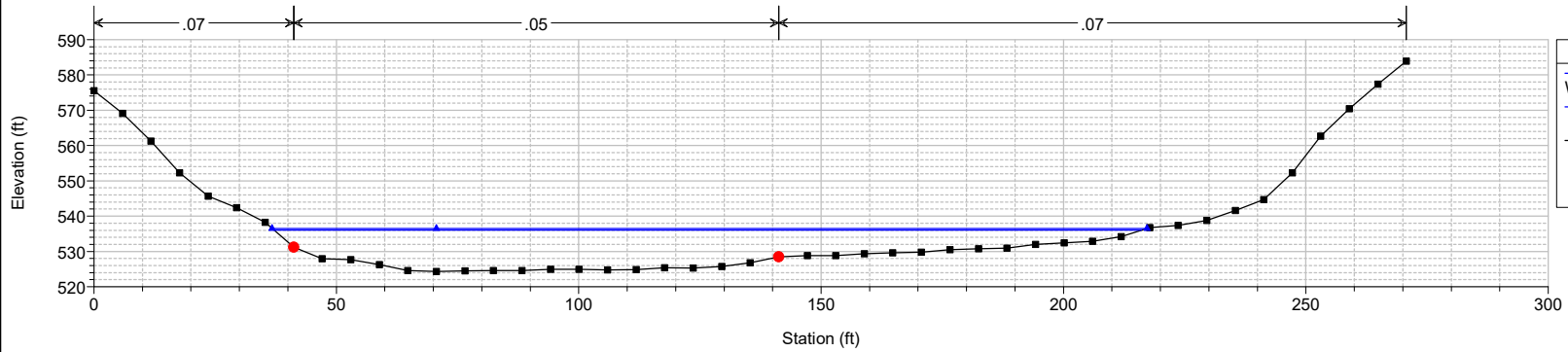




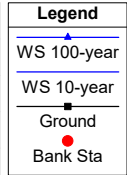
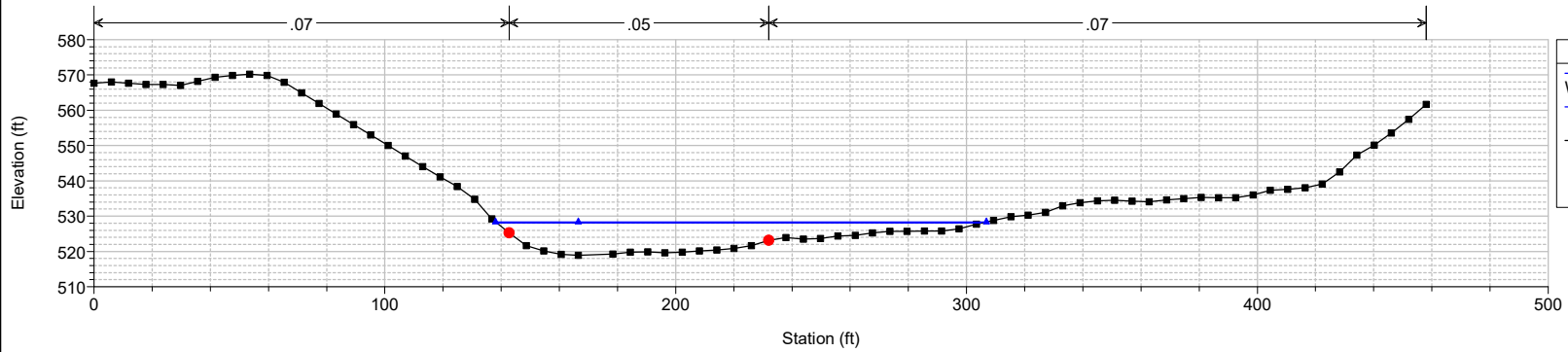
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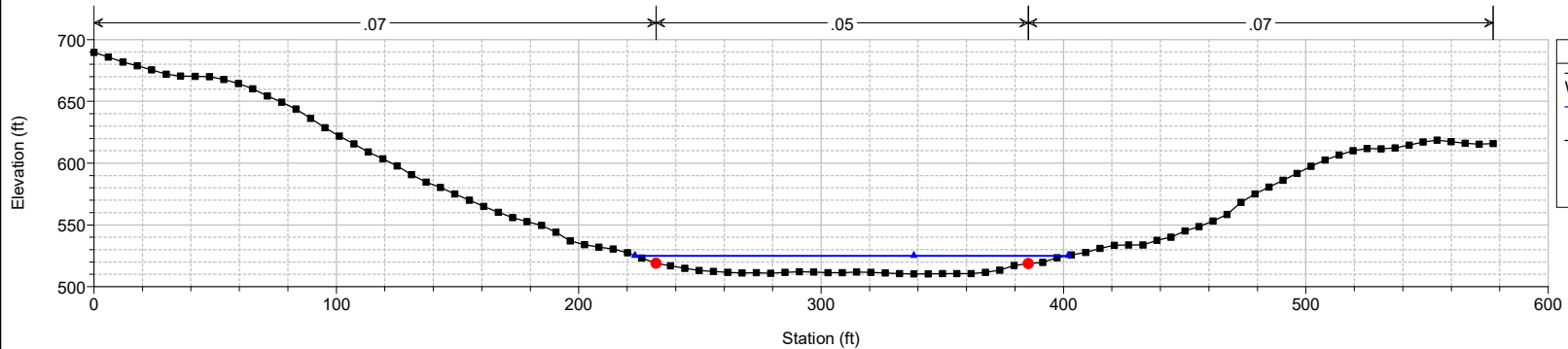
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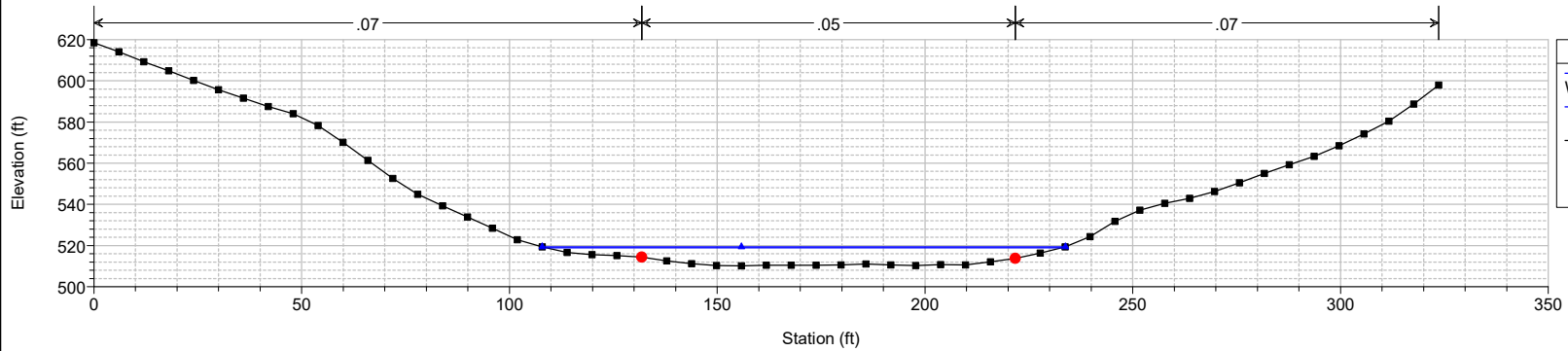
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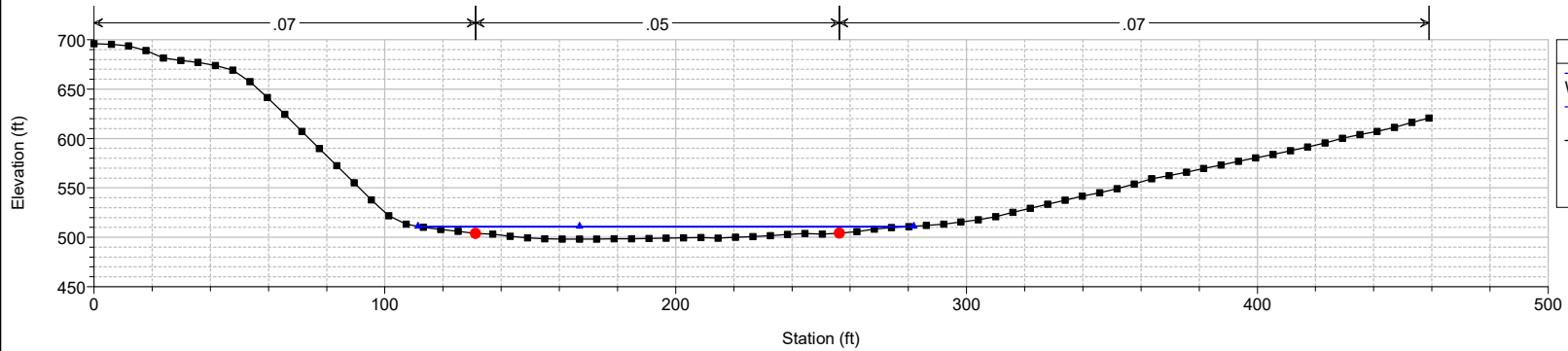
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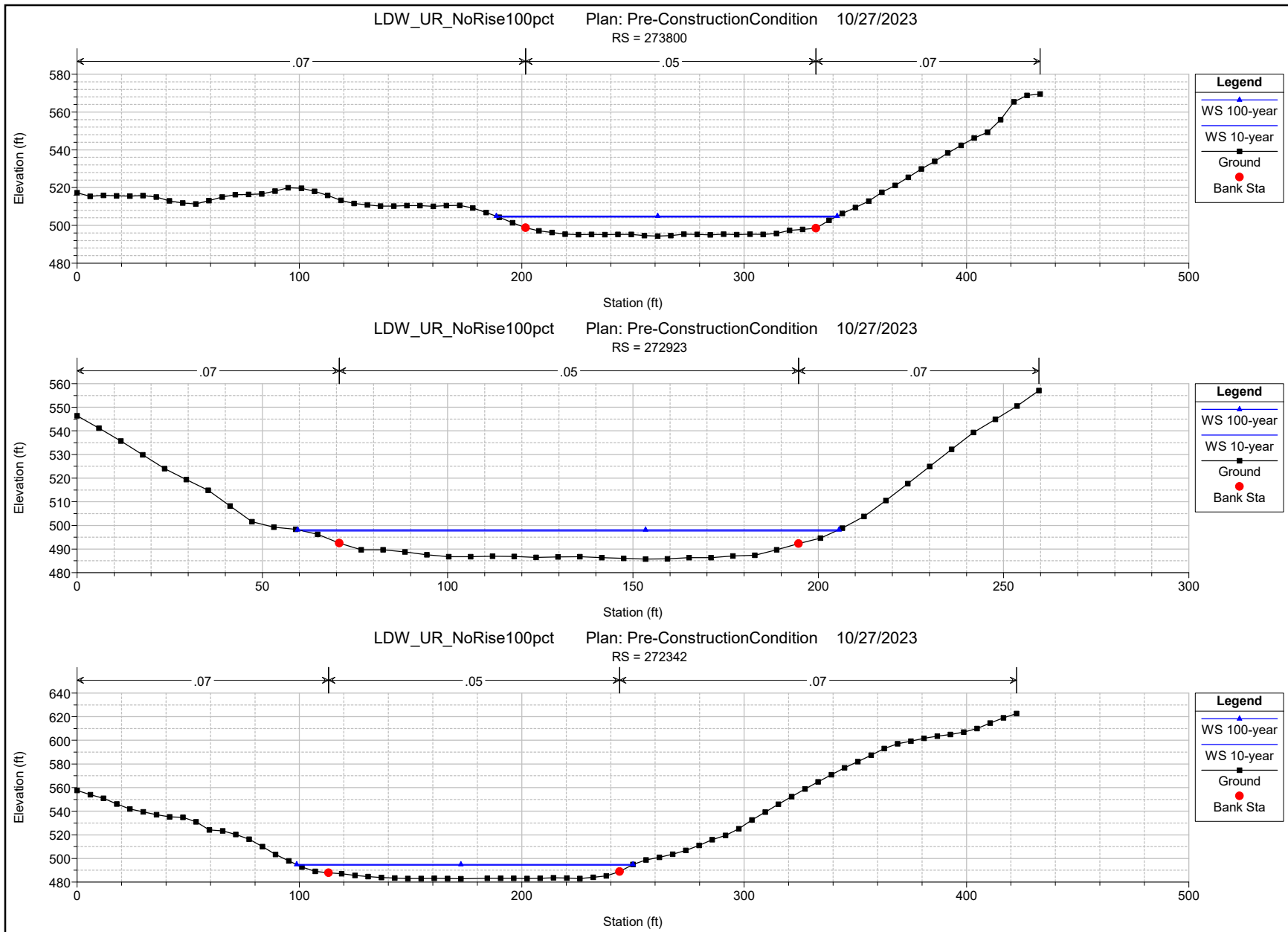


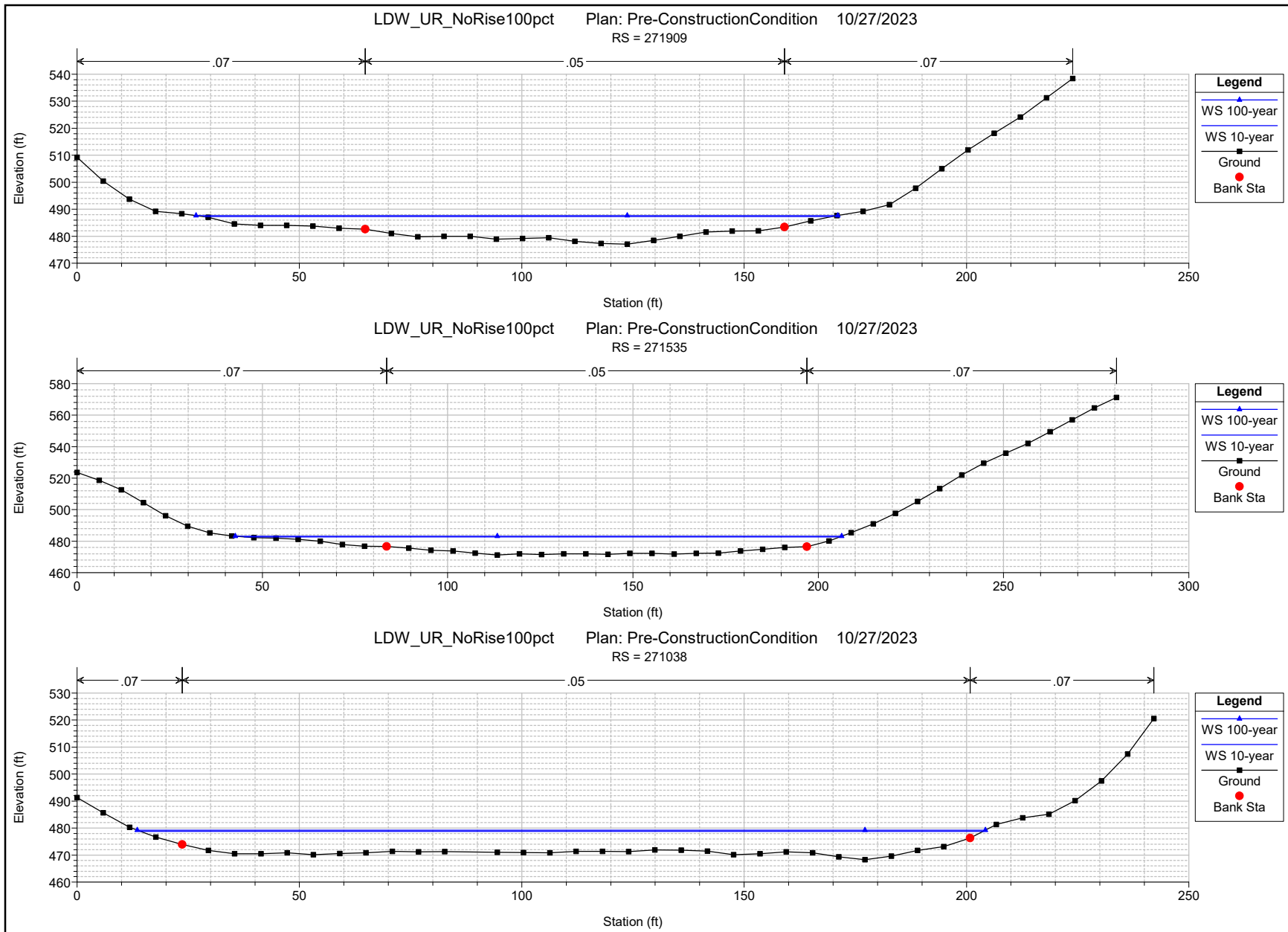
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LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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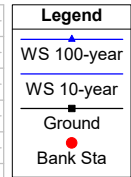
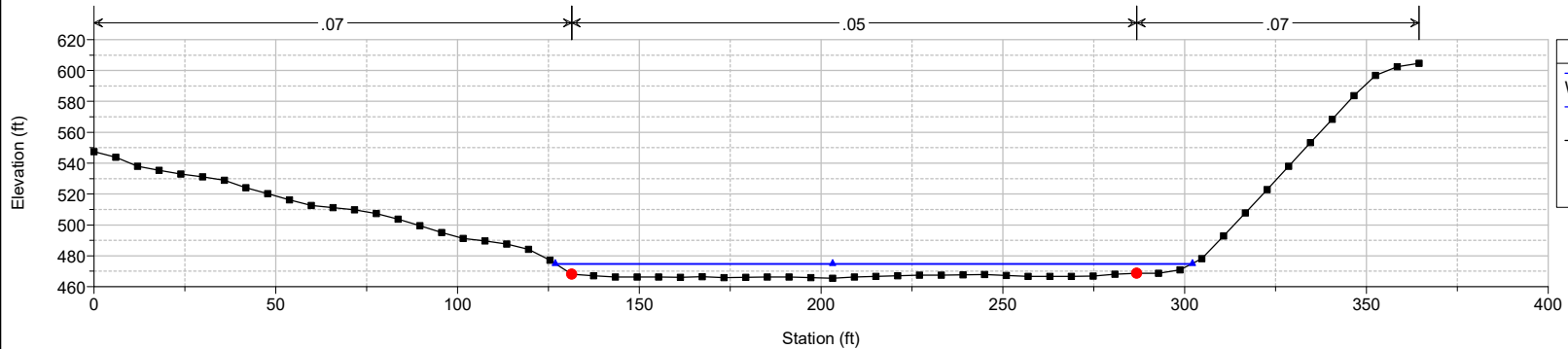




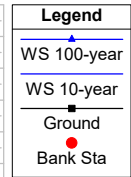
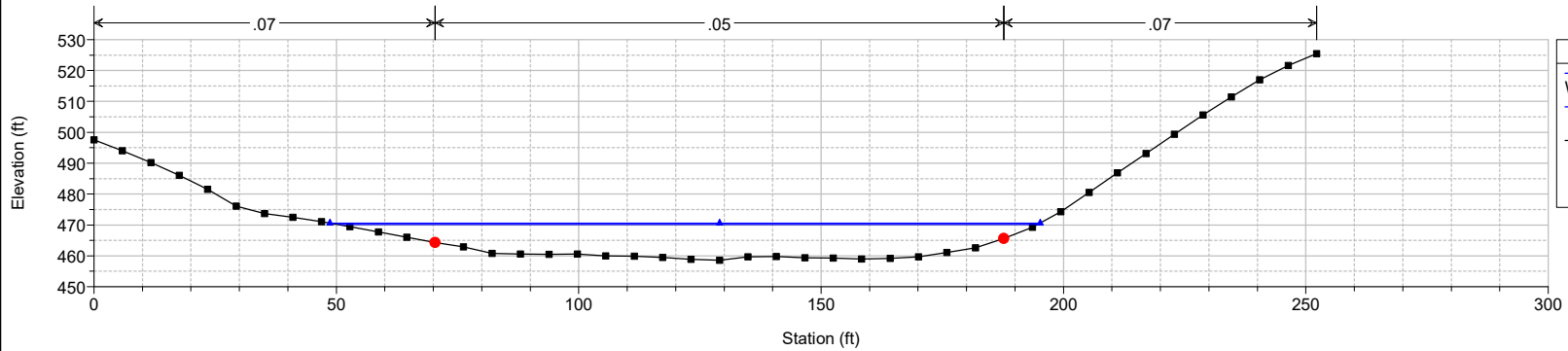




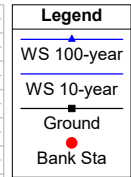
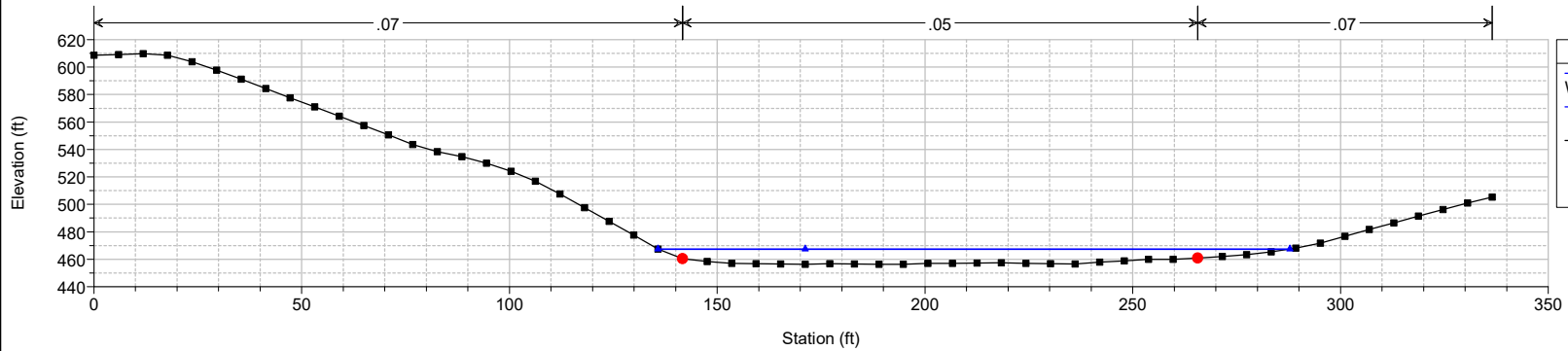
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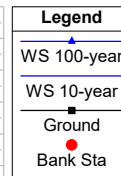
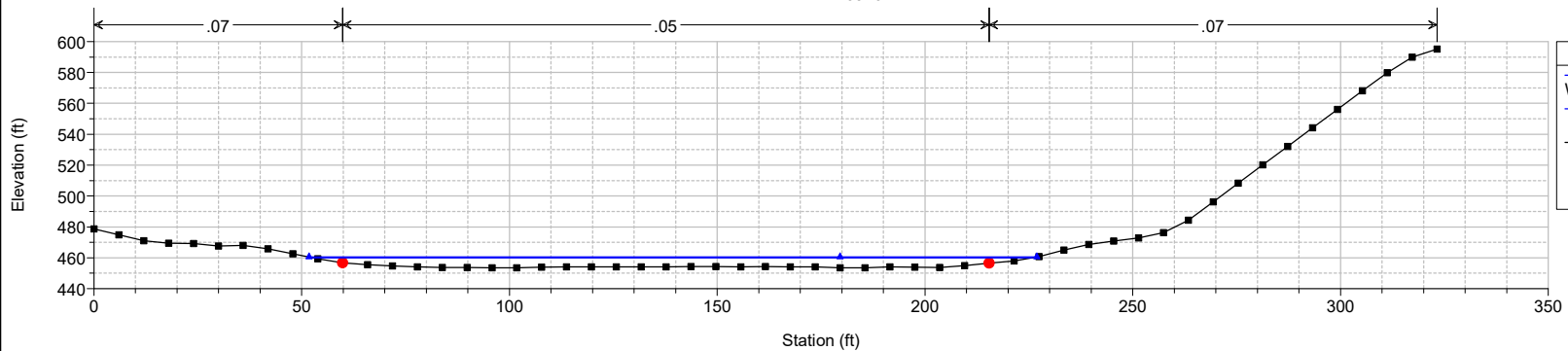
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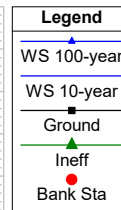
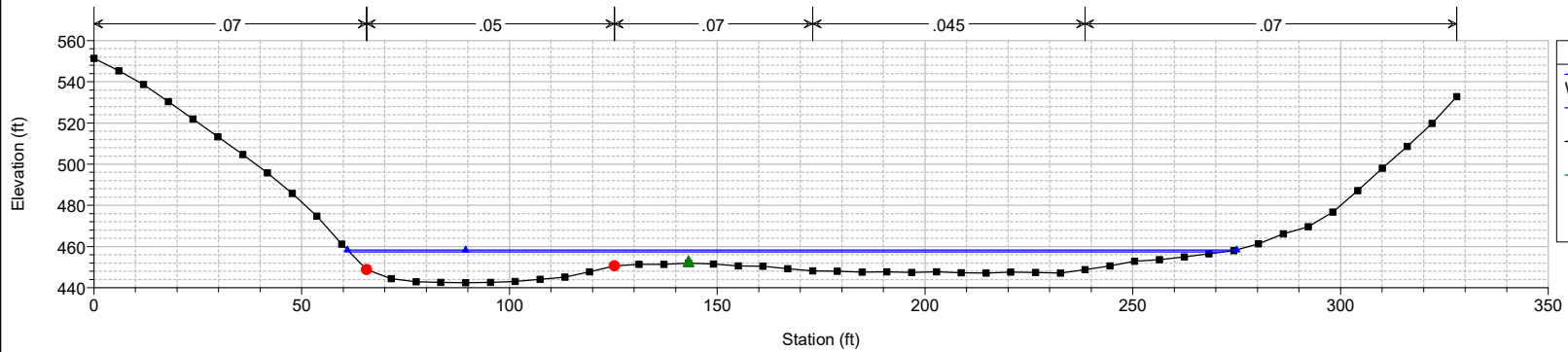
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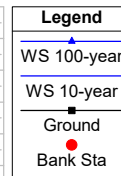
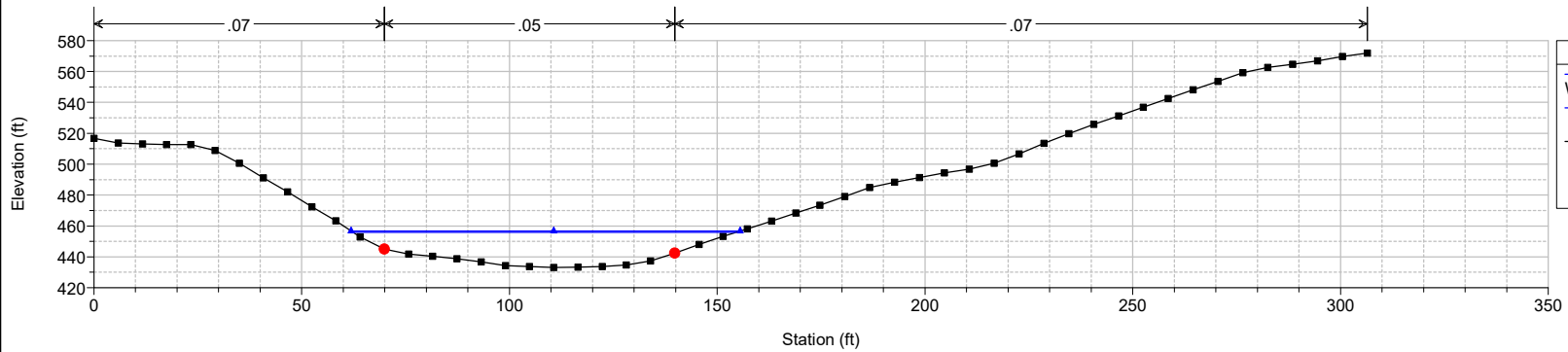
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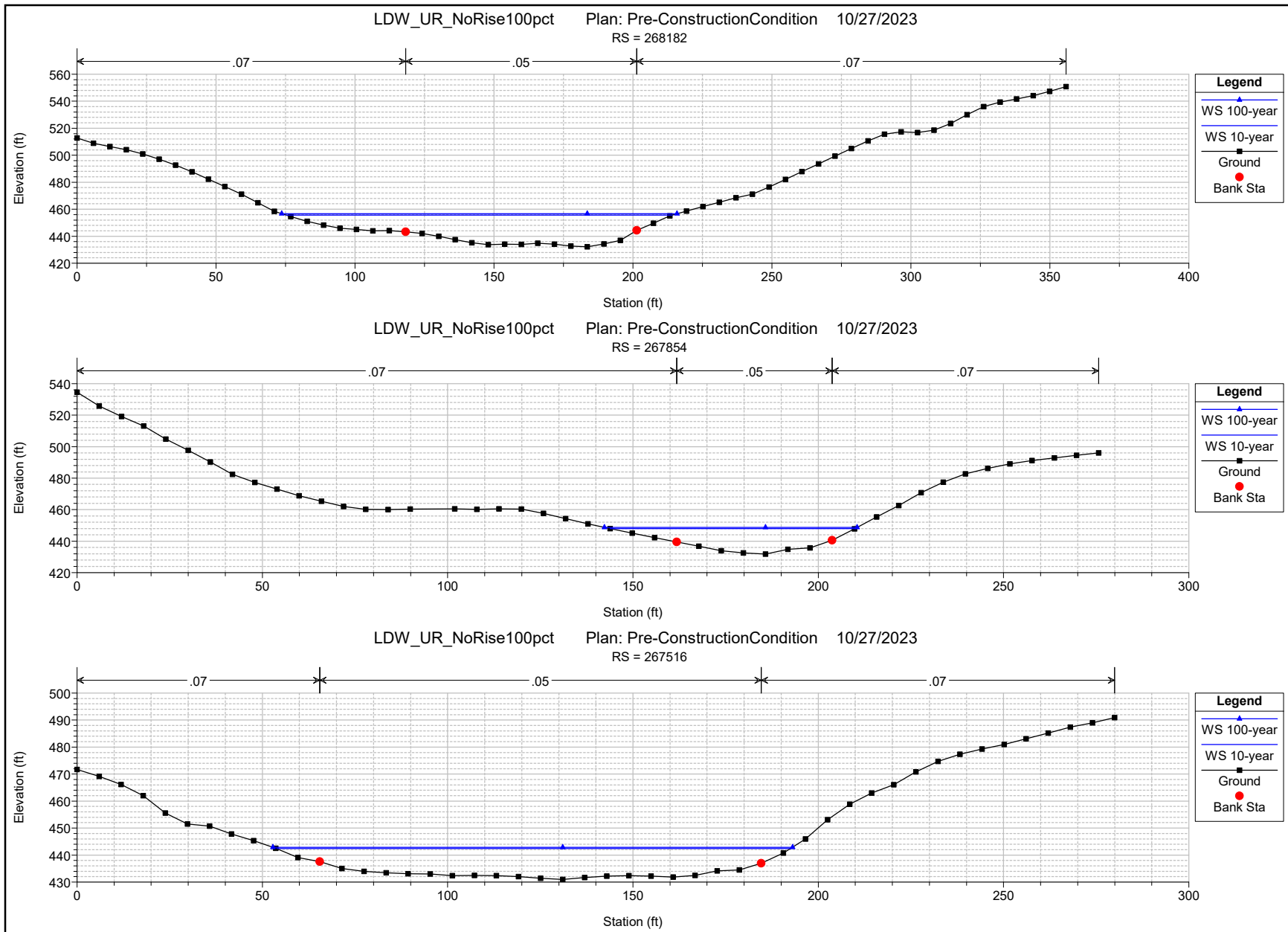


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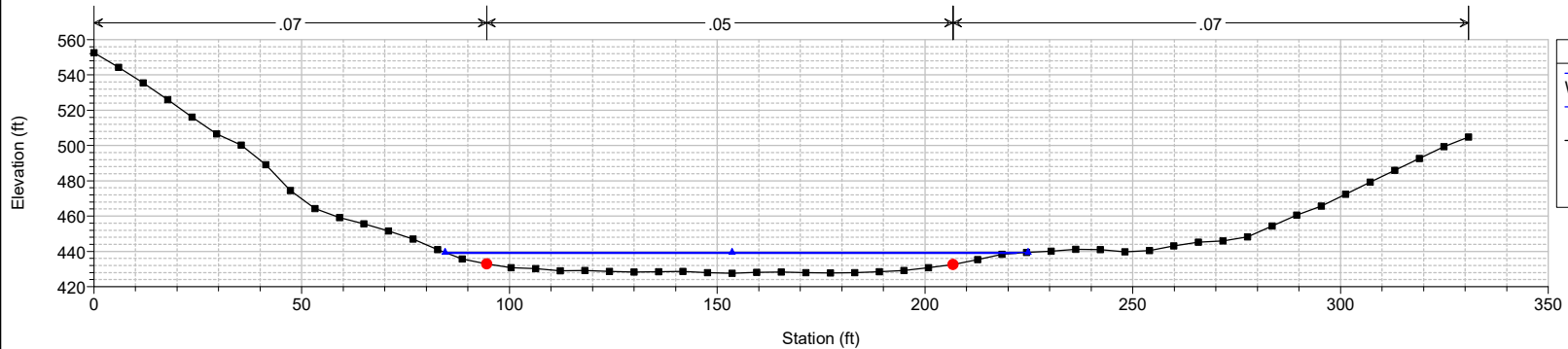


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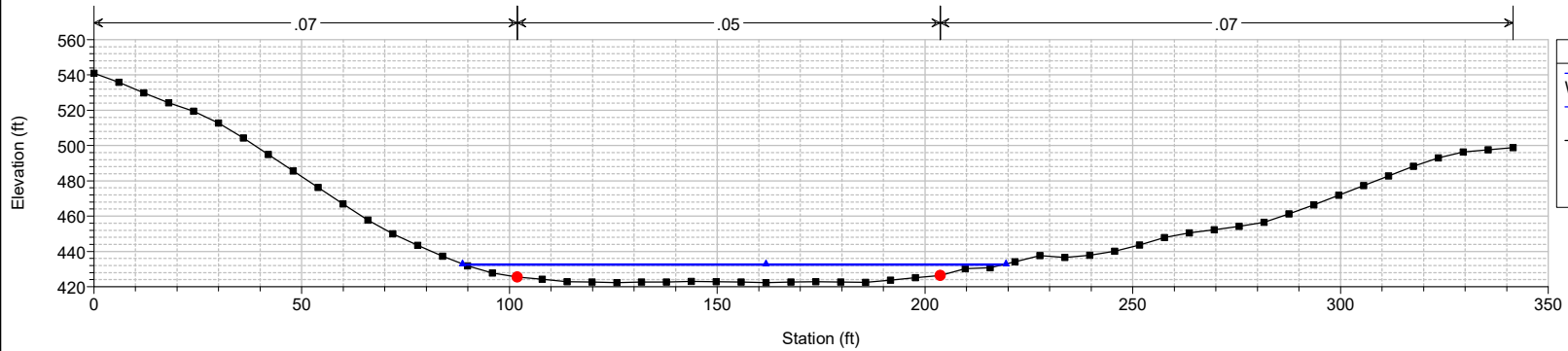




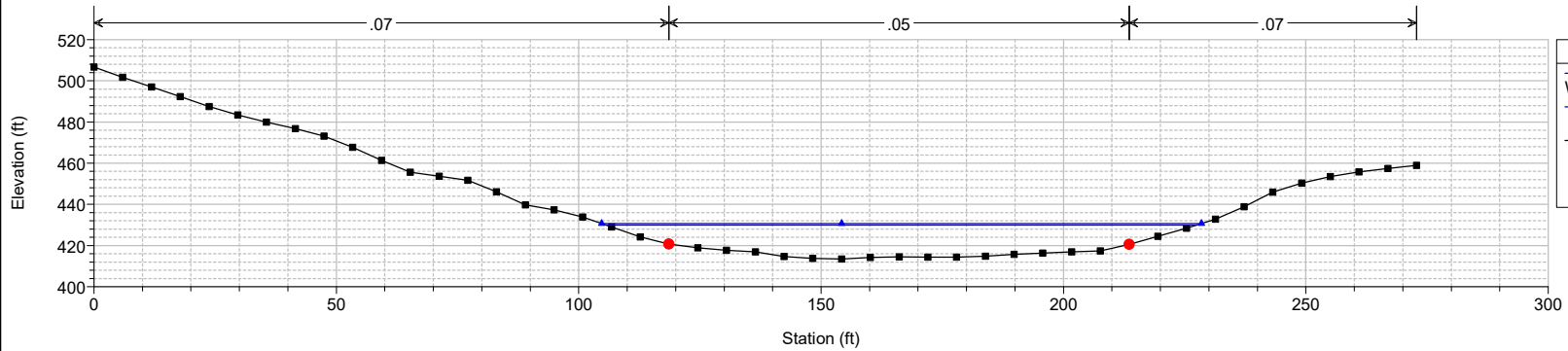
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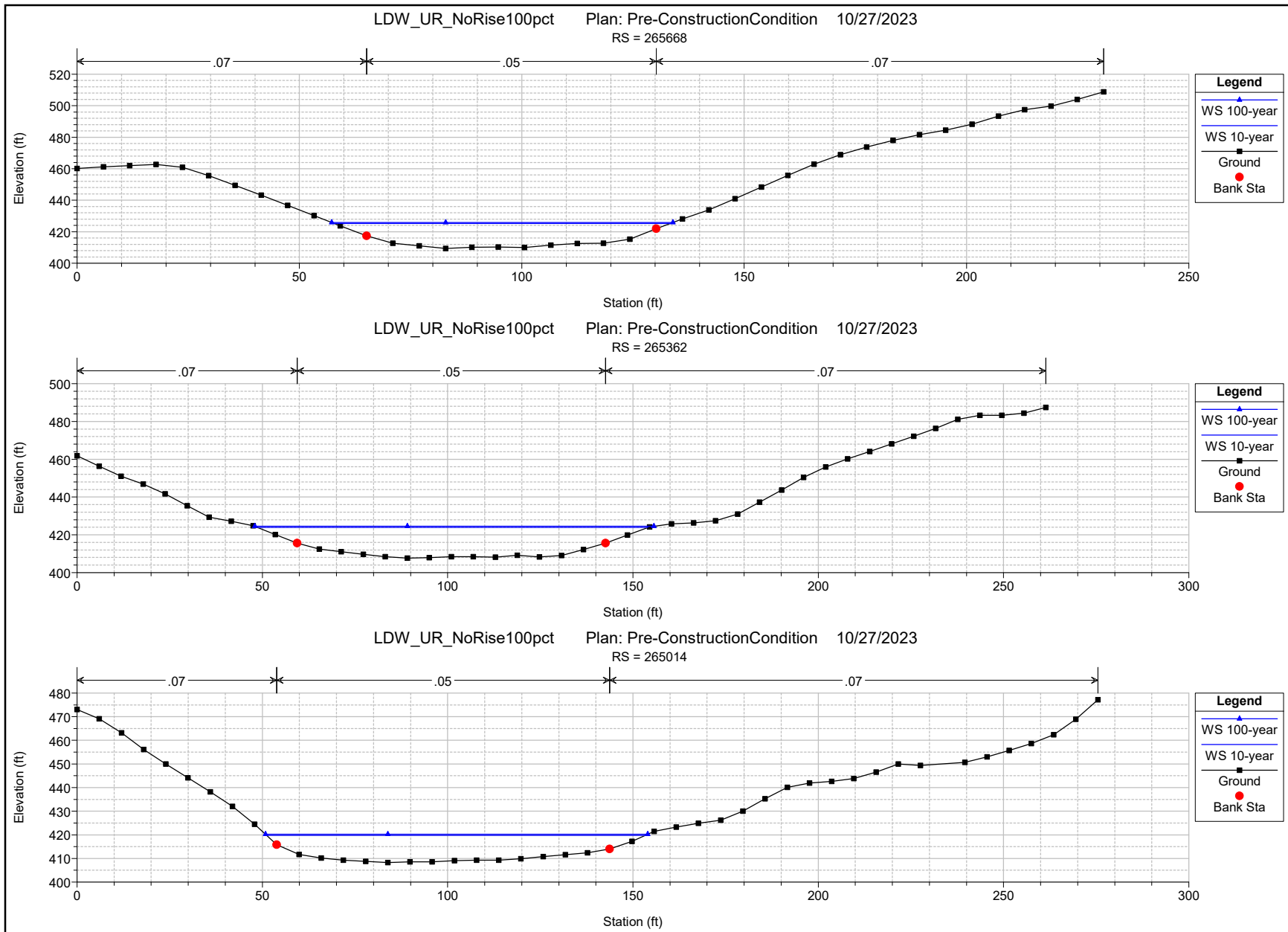


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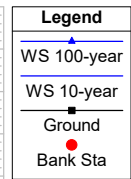
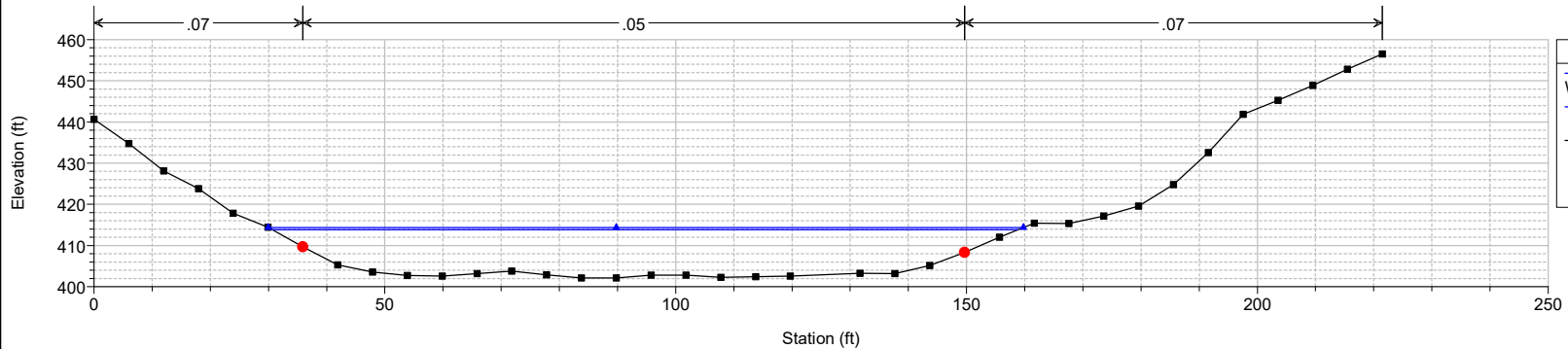


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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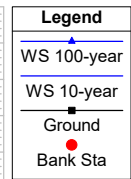
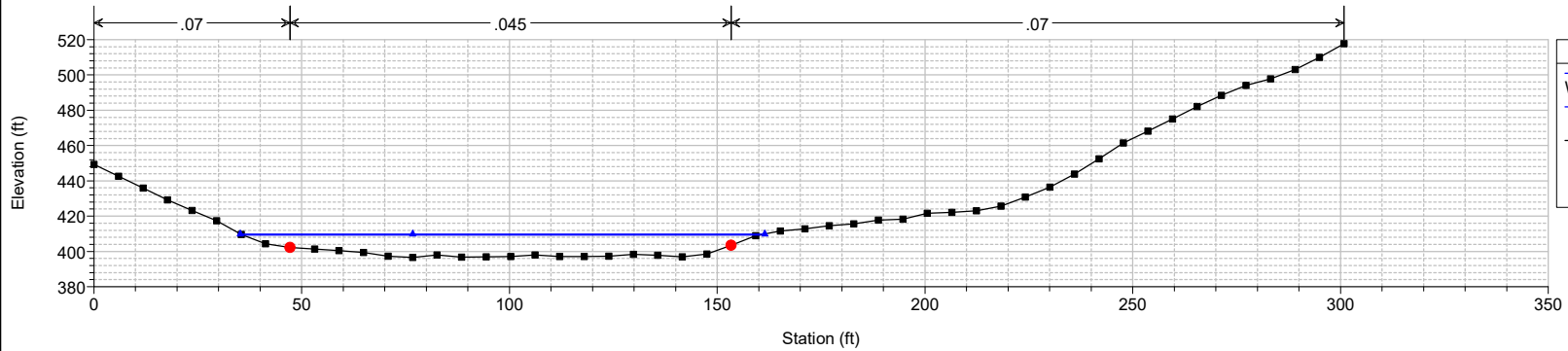




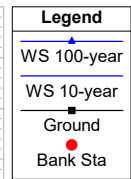
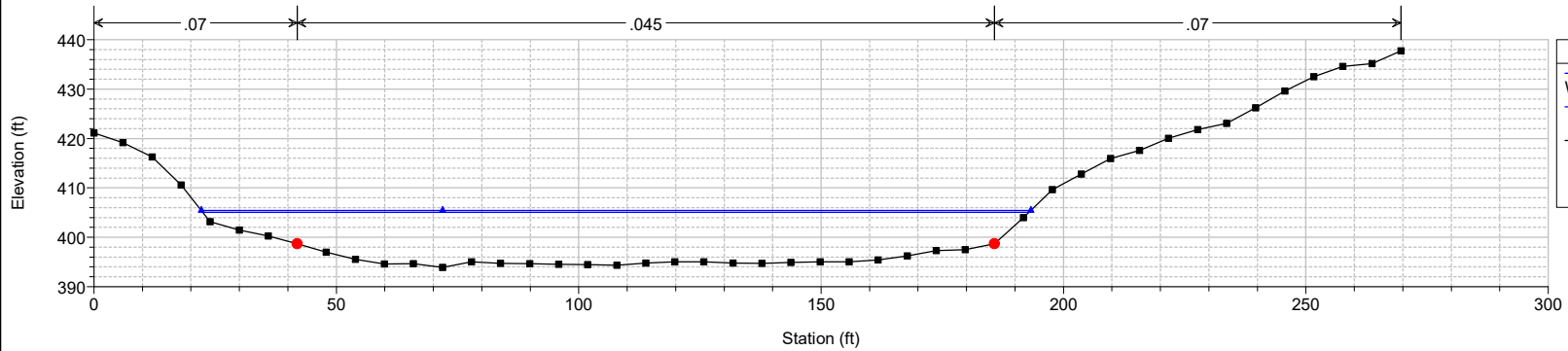
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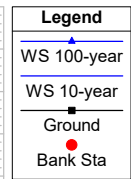
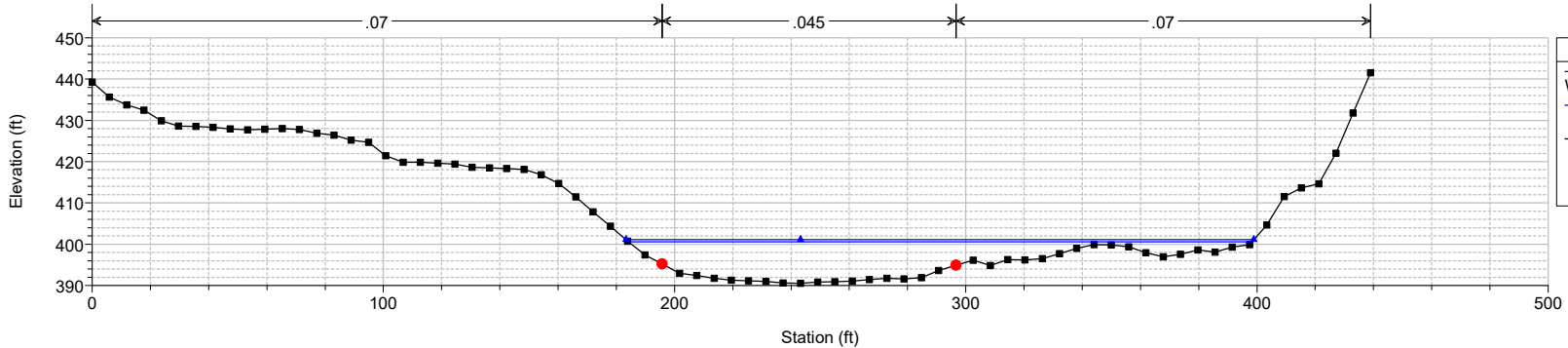
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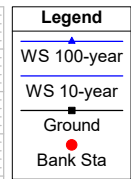
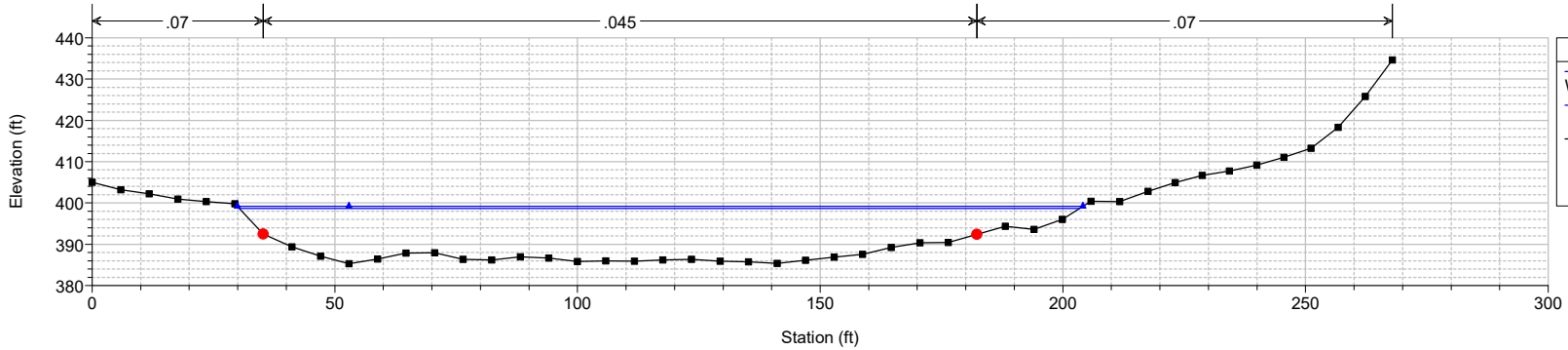
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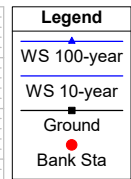
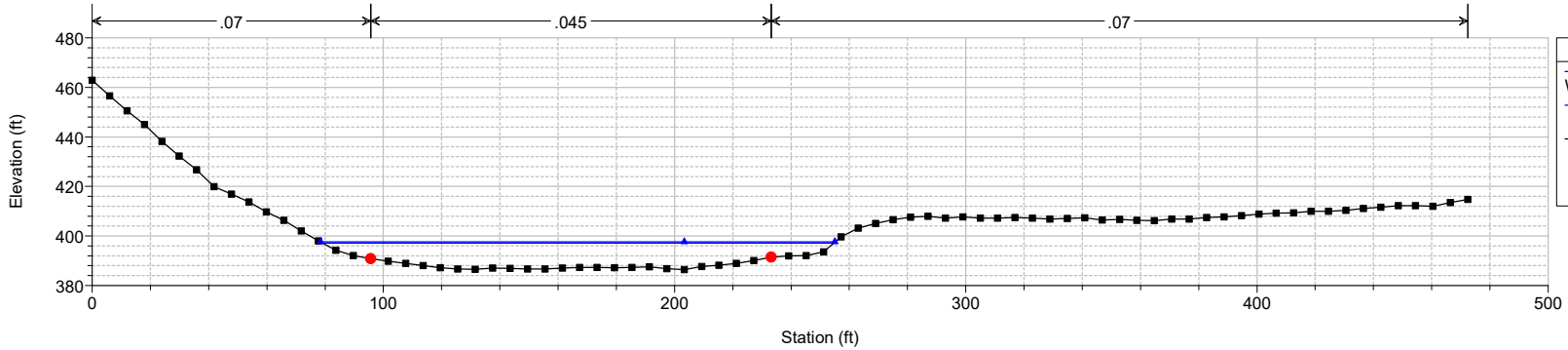
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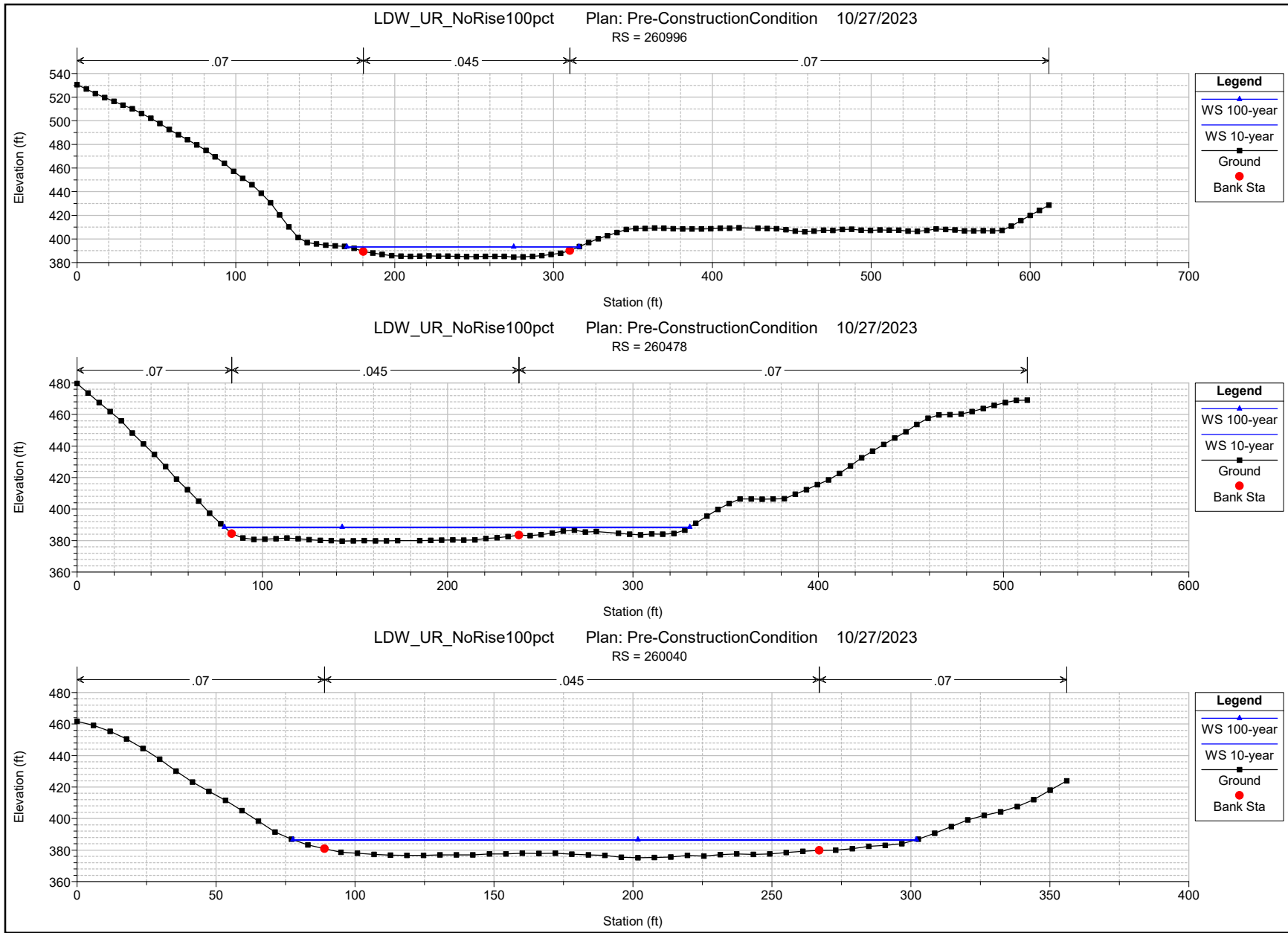


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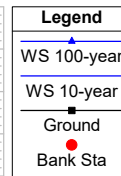
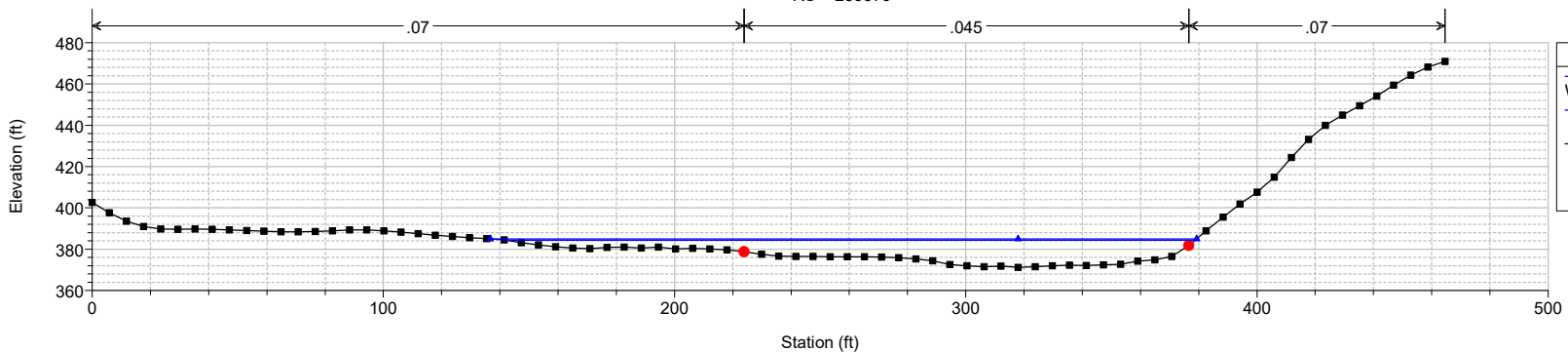
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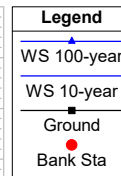
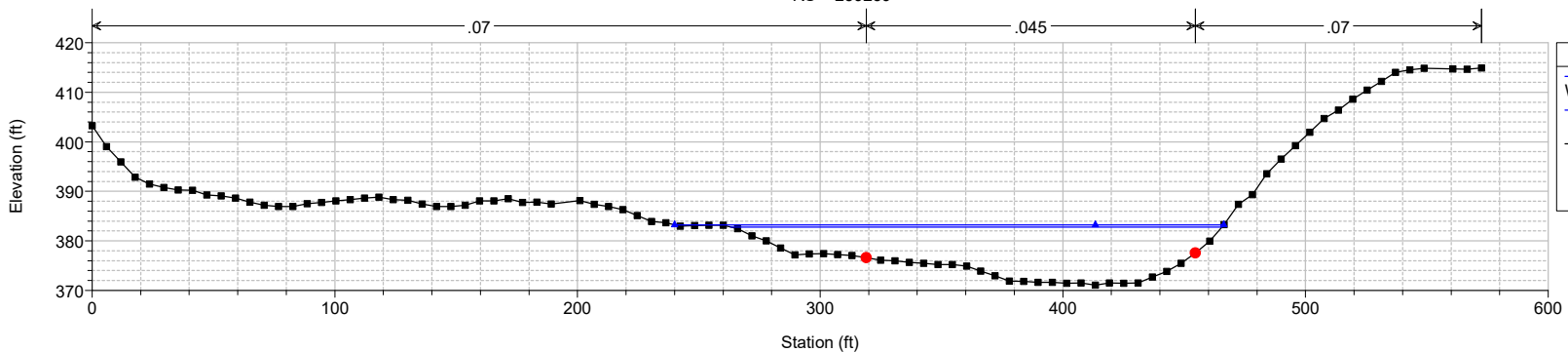




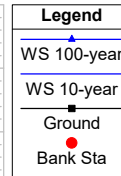
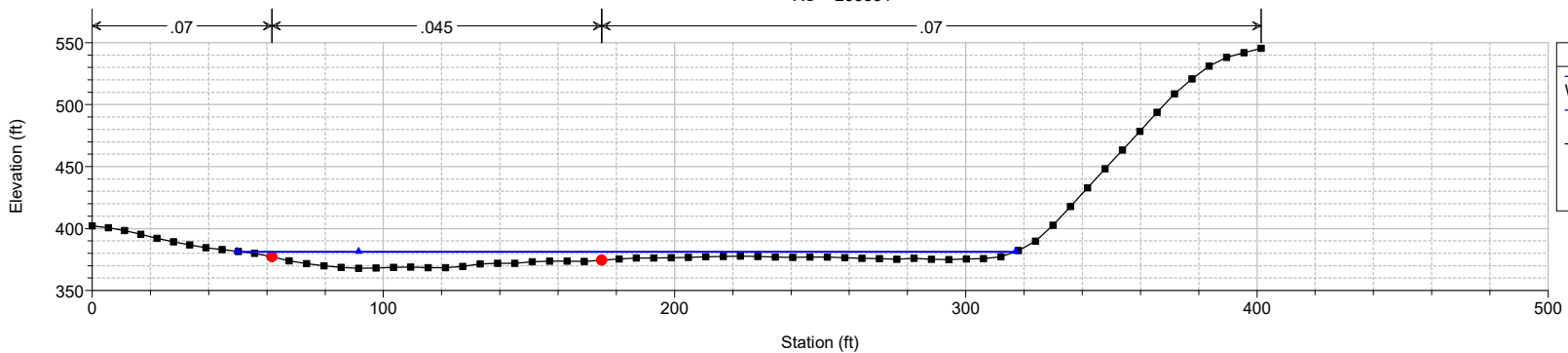
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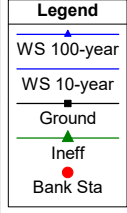
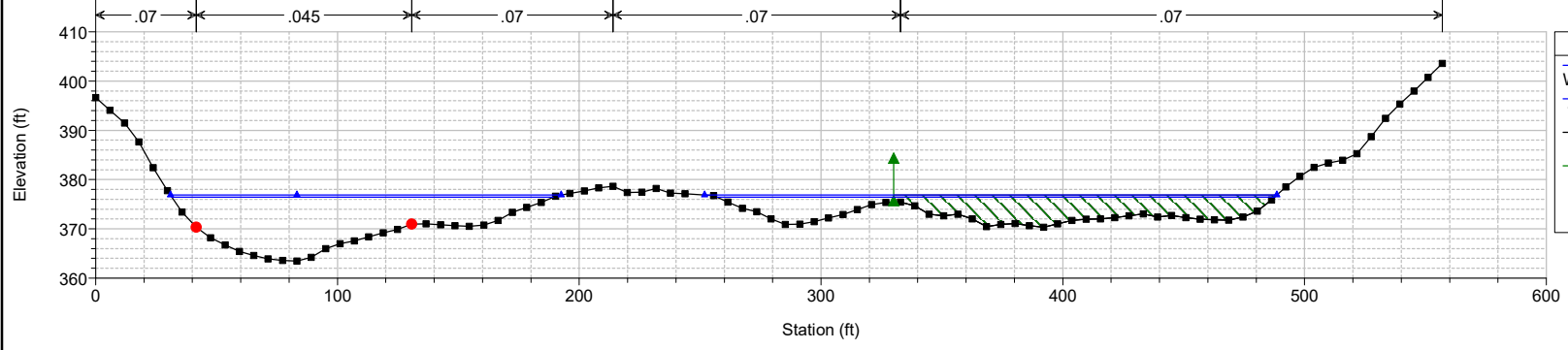
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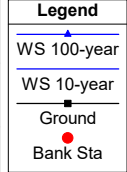
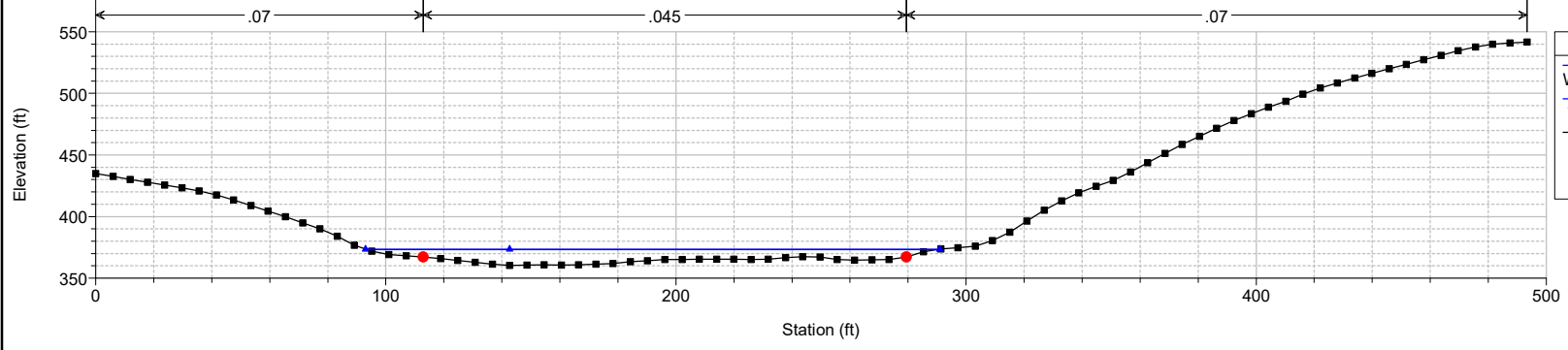
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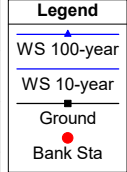
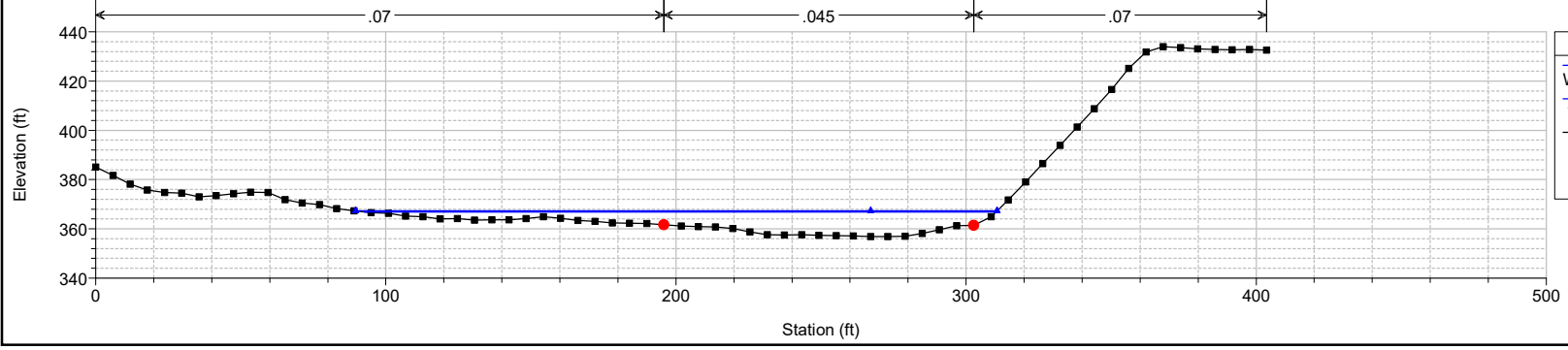
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 258224 KC (Erik 2016): Broke up ROB n value into multiple zones of 0.0

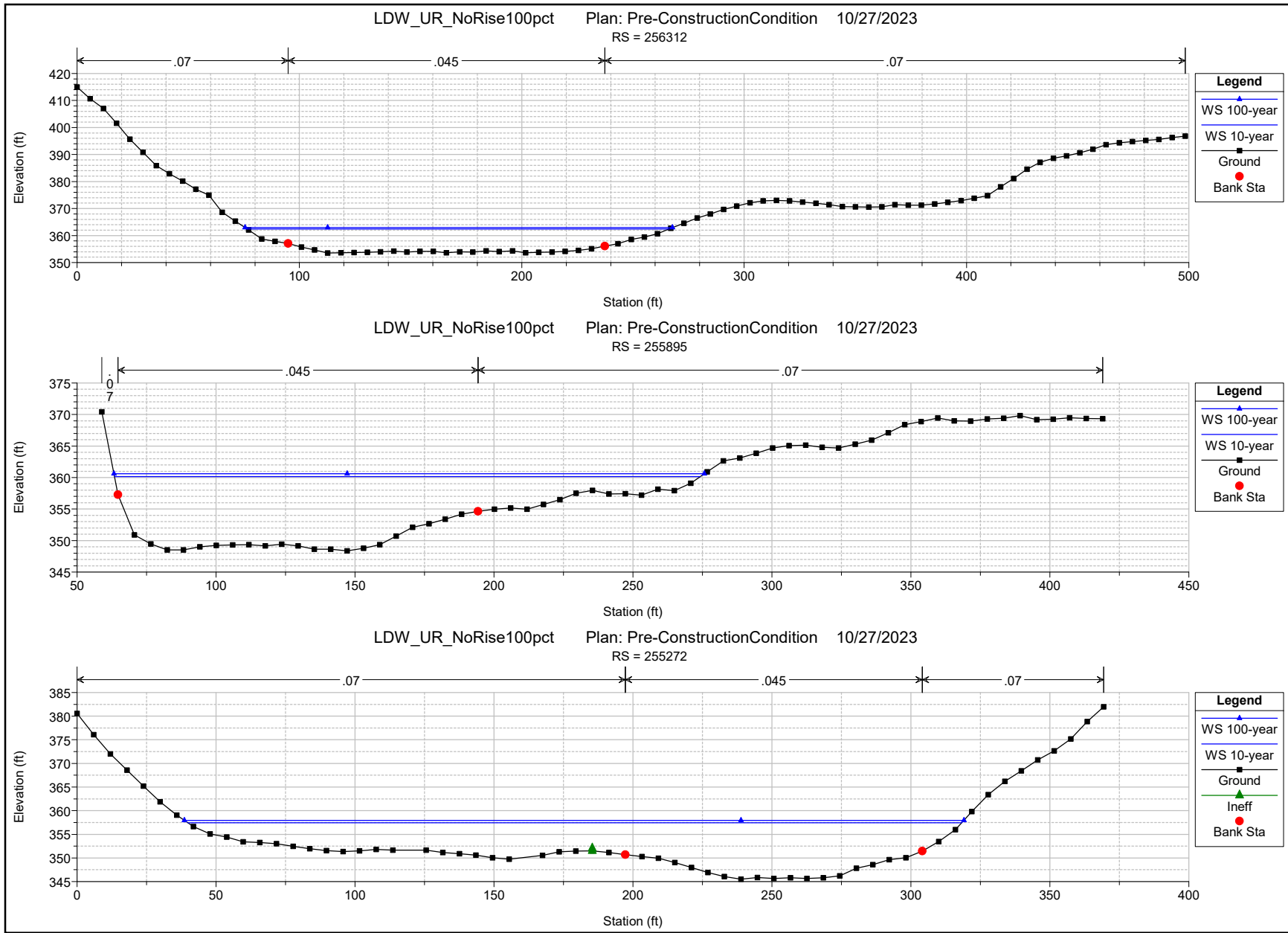


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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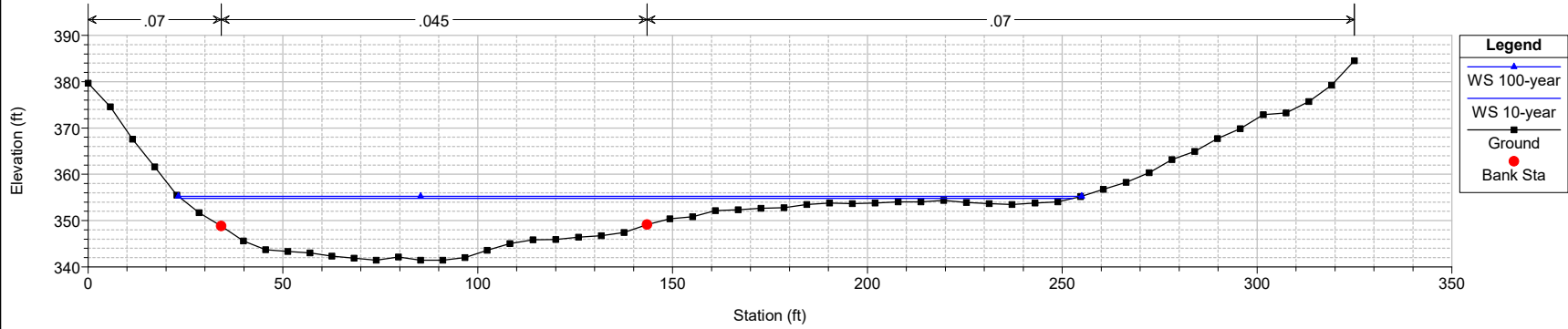


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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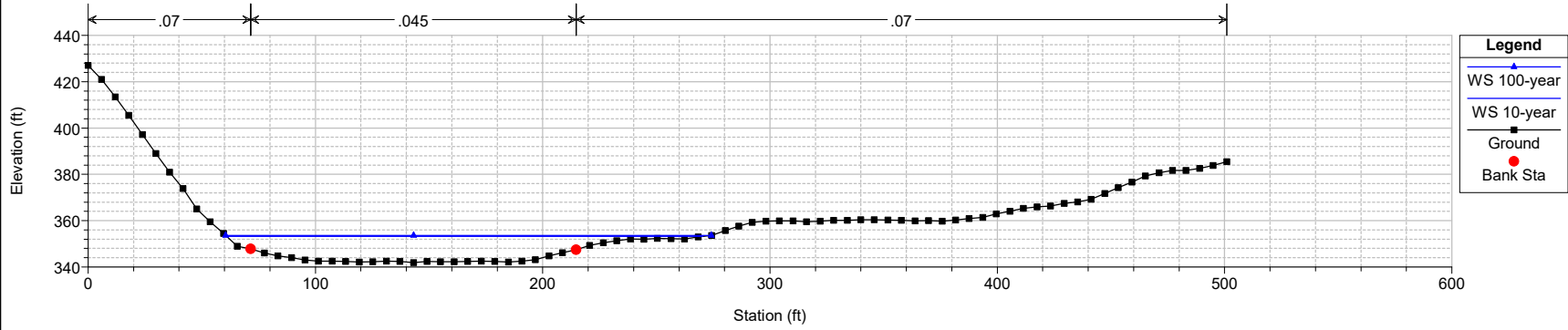




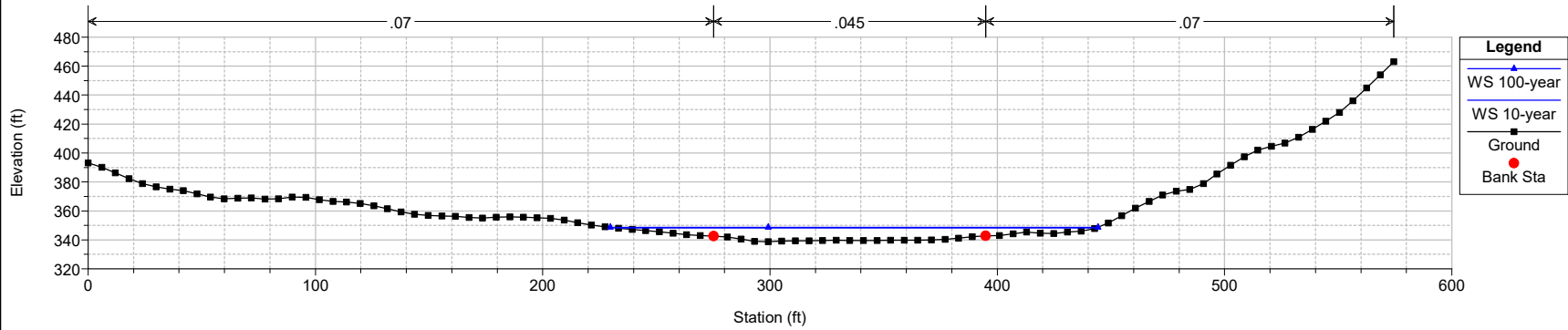
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 254850



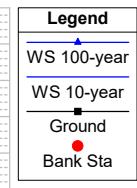
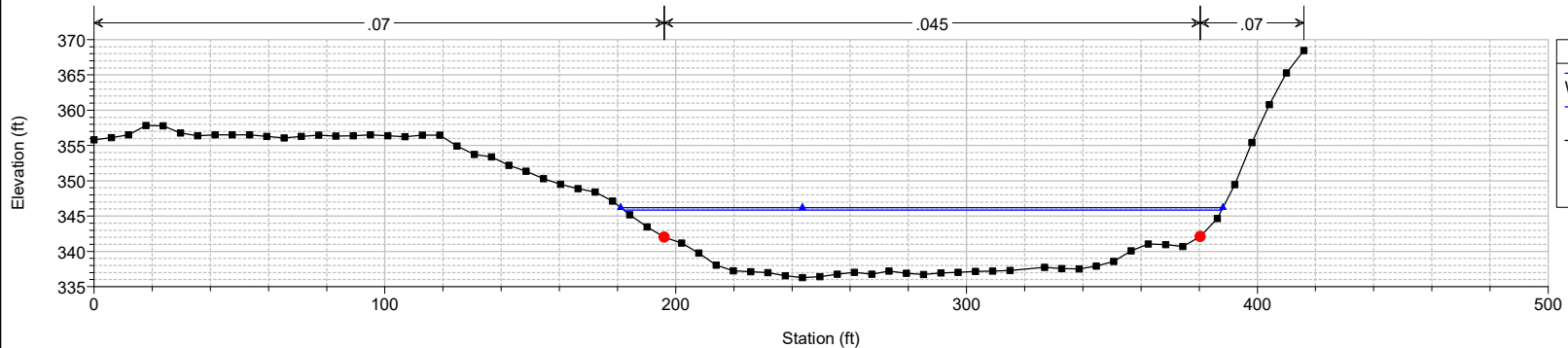
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 254464



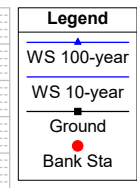
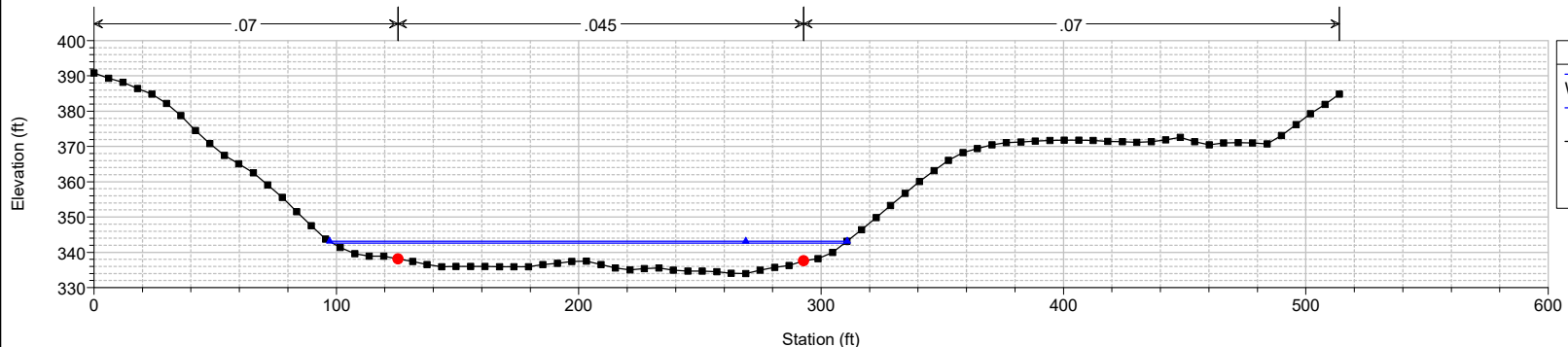
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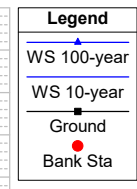
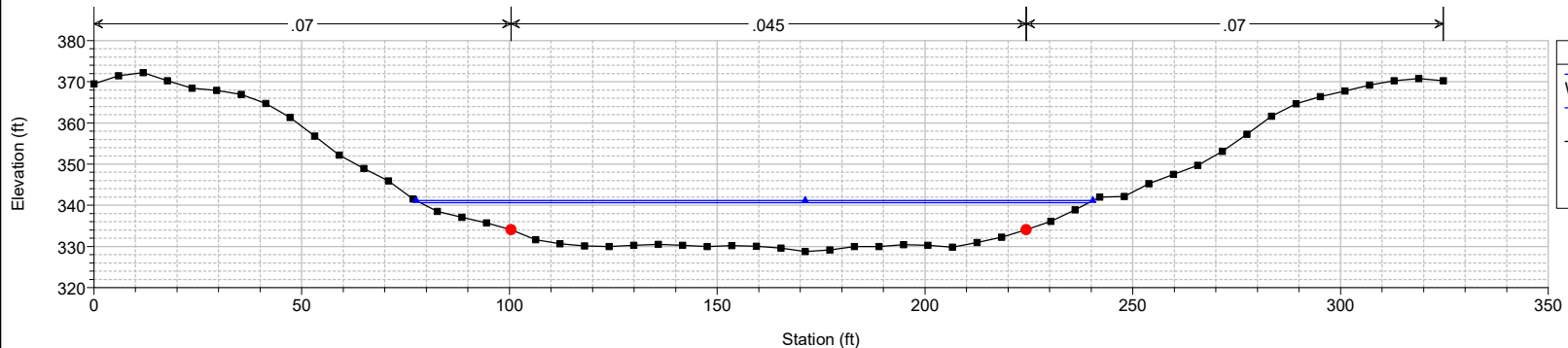
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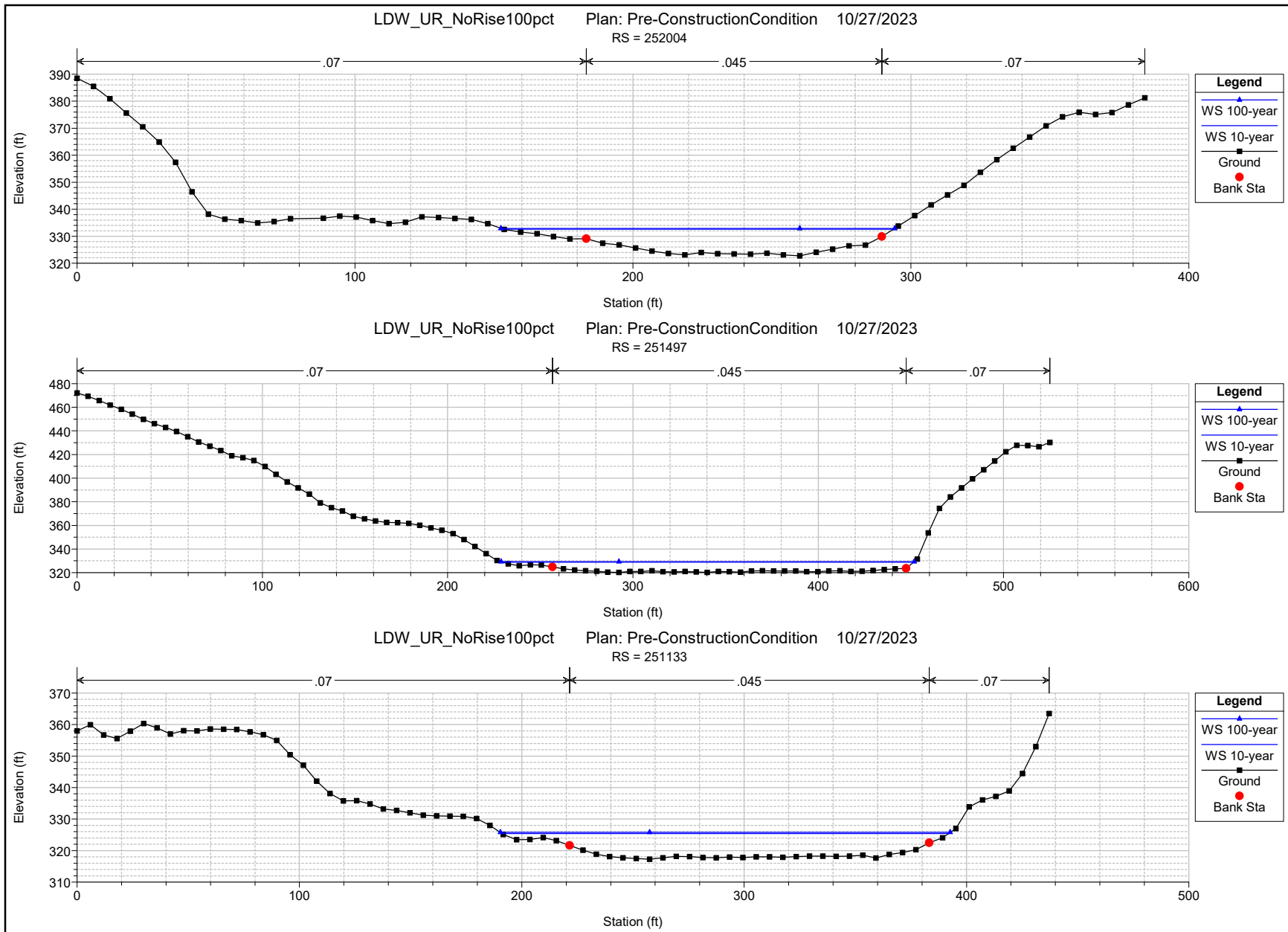


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 253039

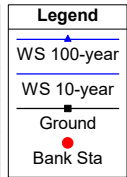
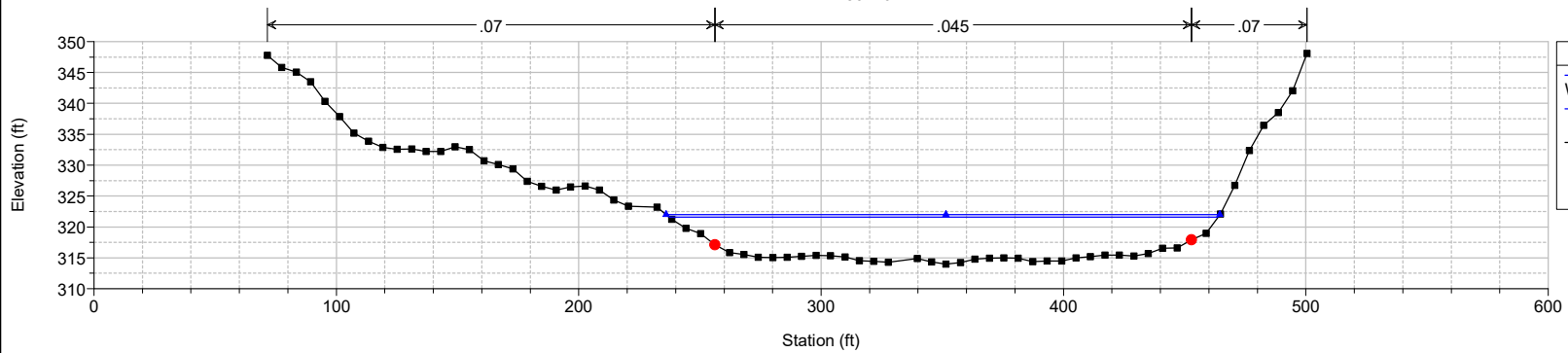


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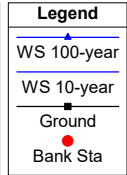
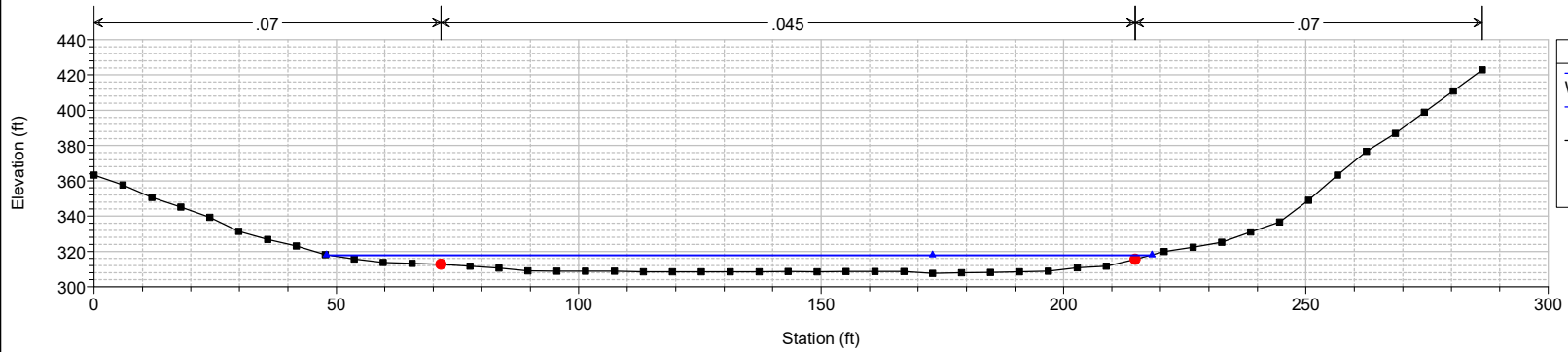




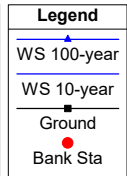
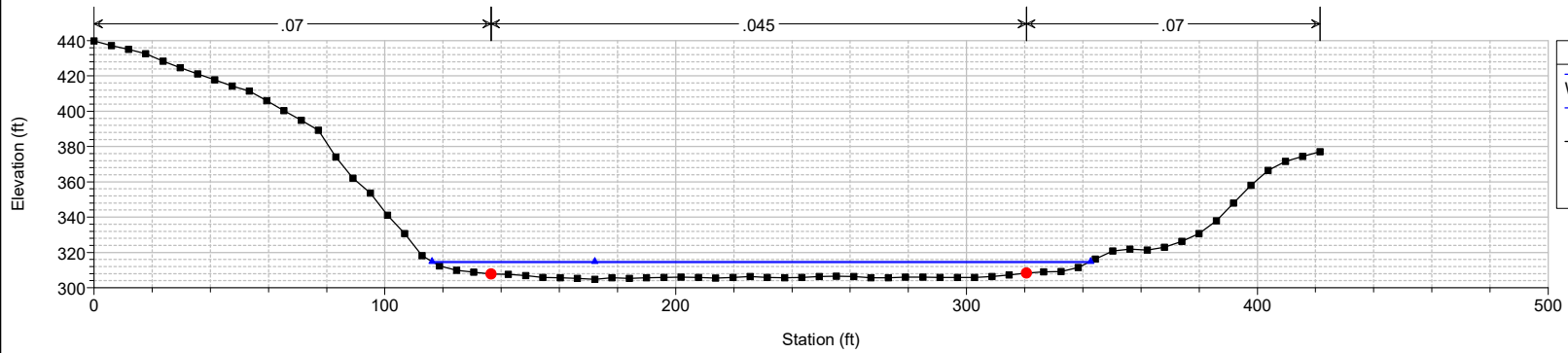
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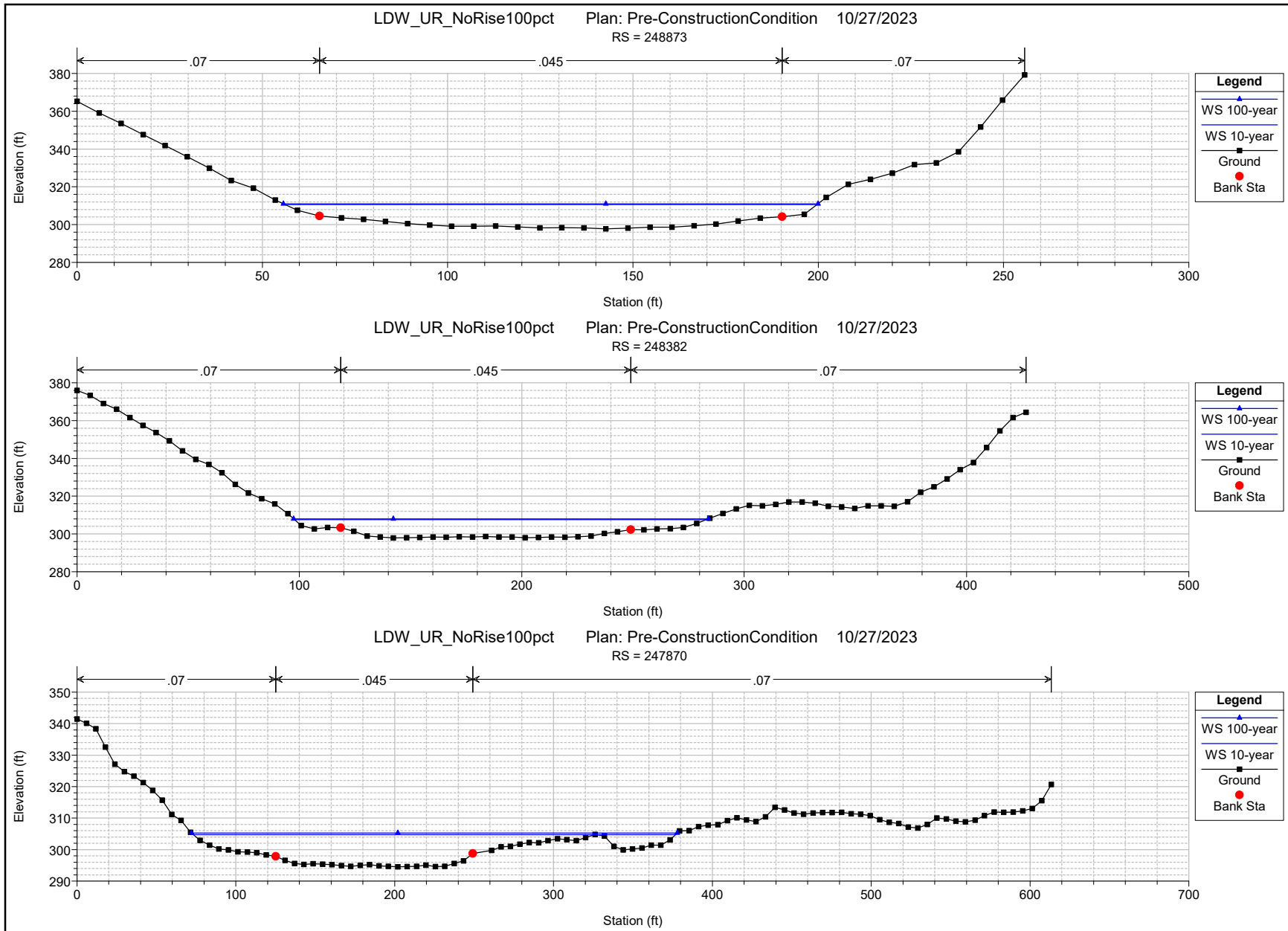


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 250261

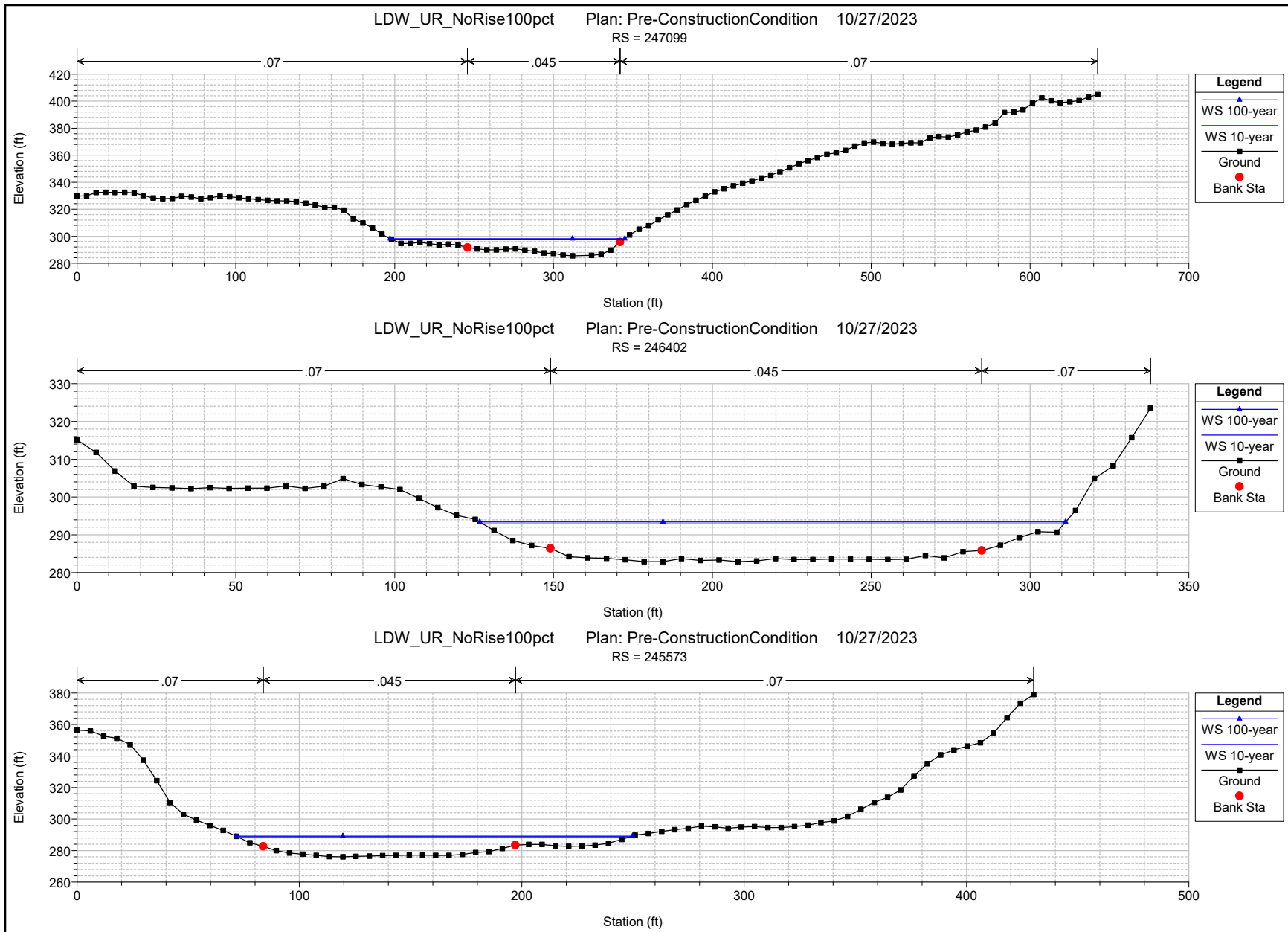


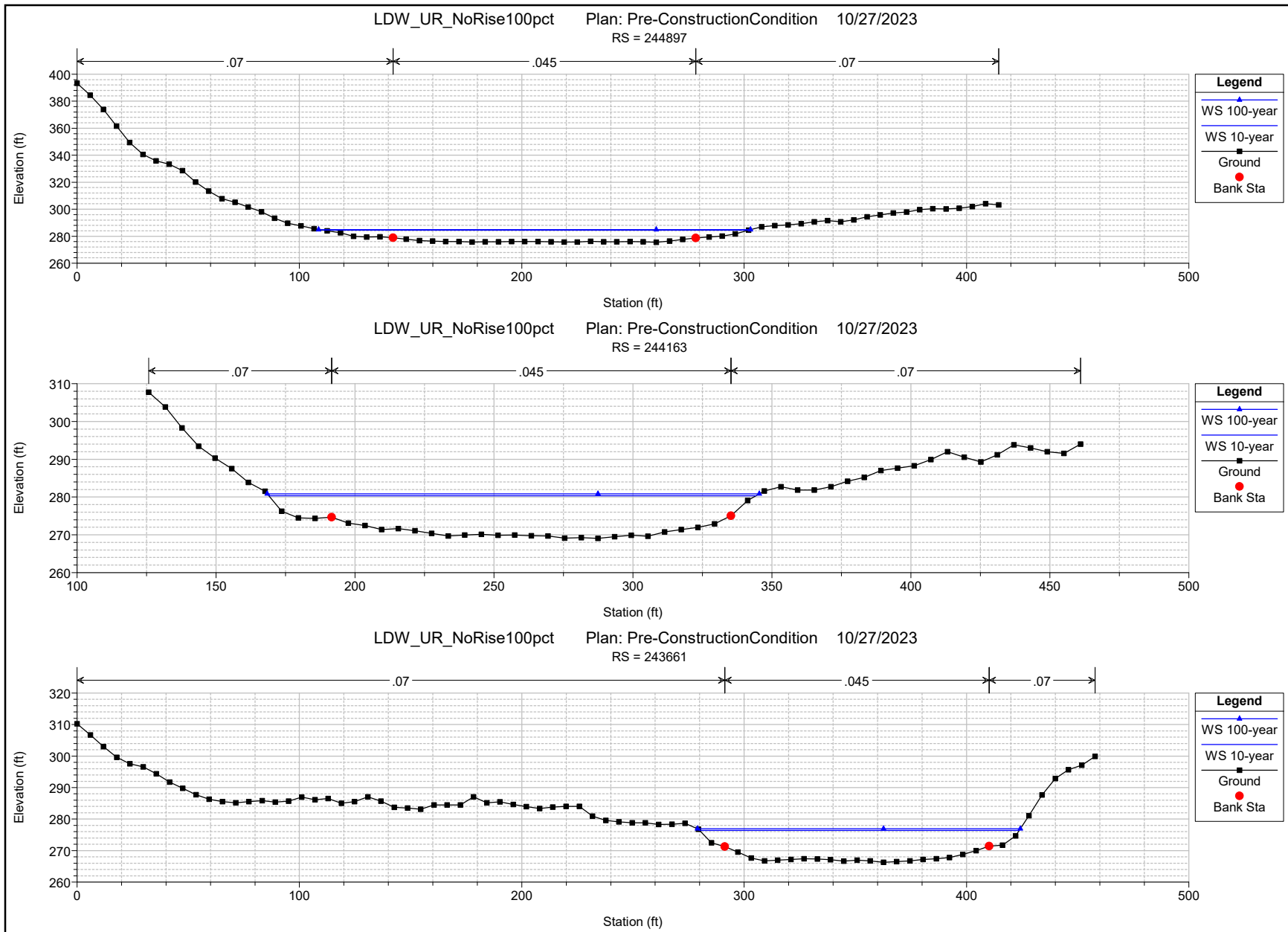
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 249607



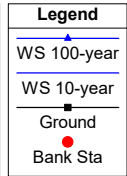
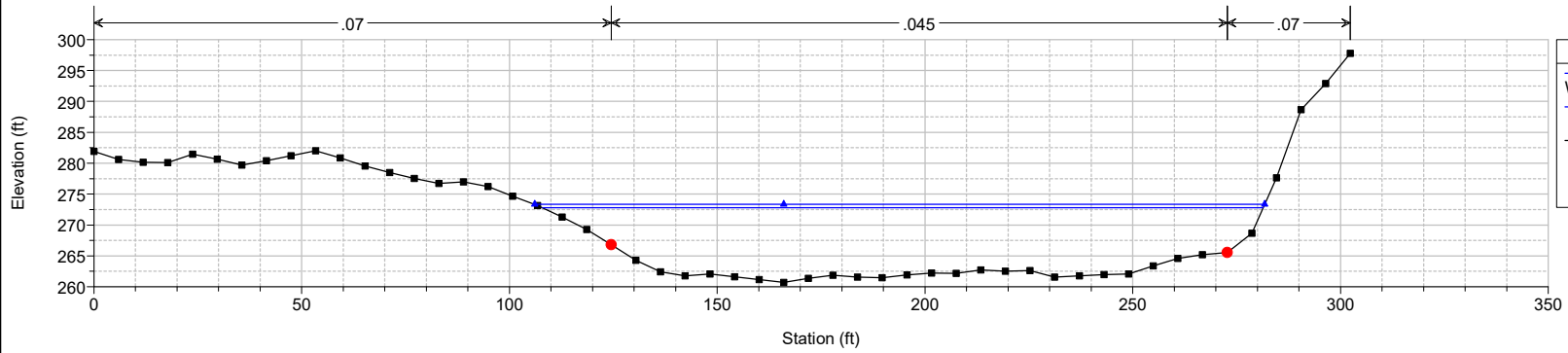




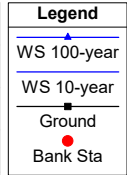
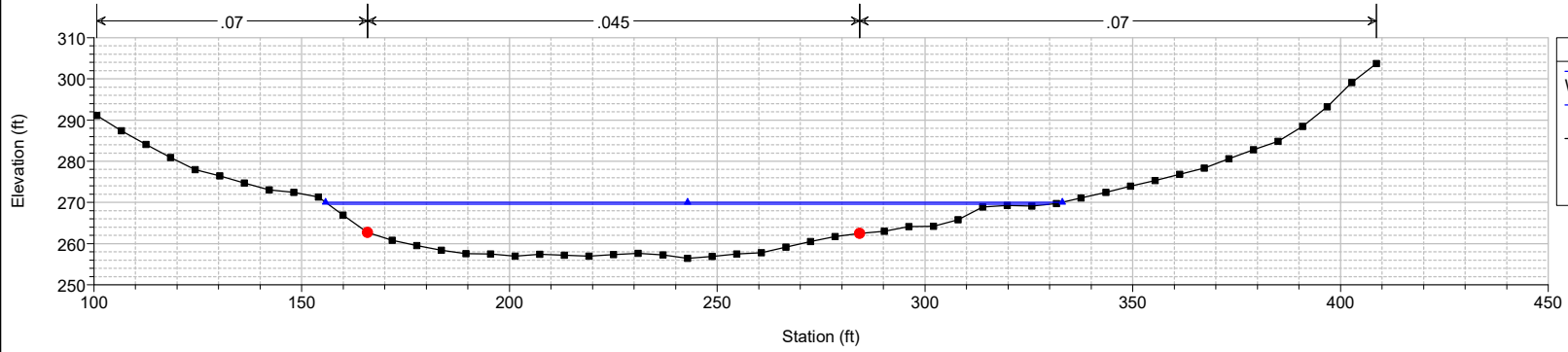




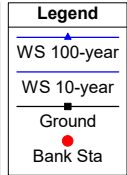
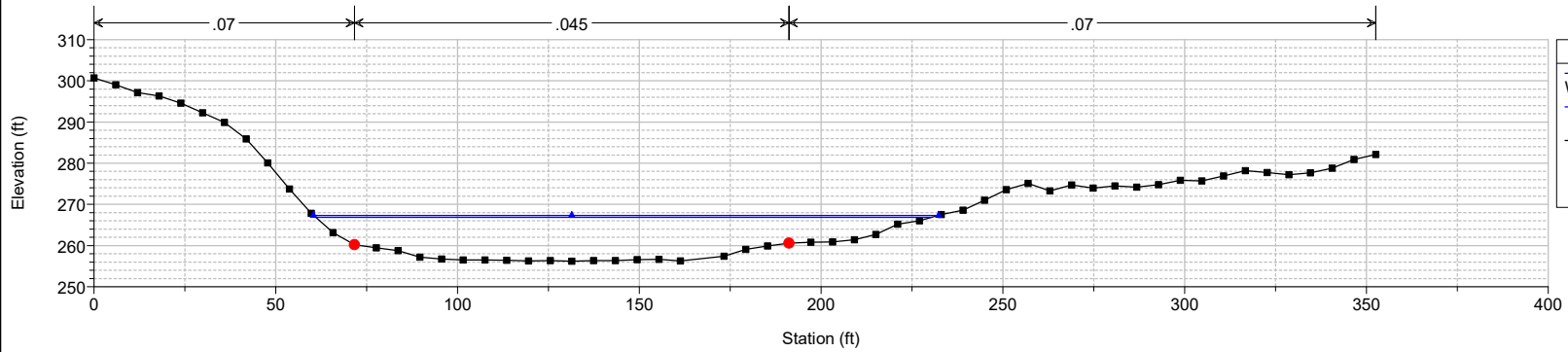
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 242875

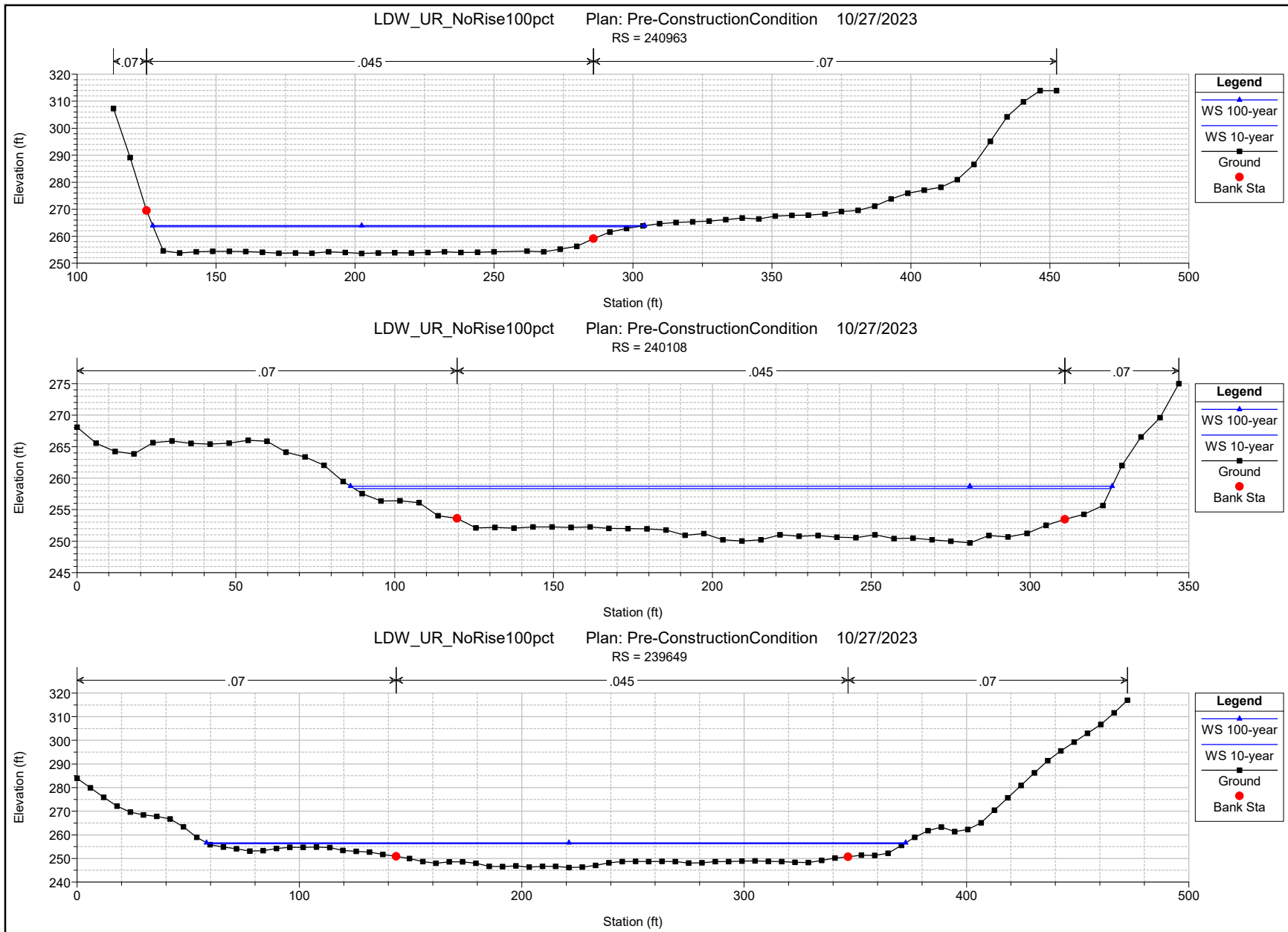


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 242072

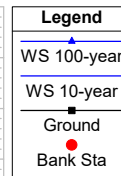
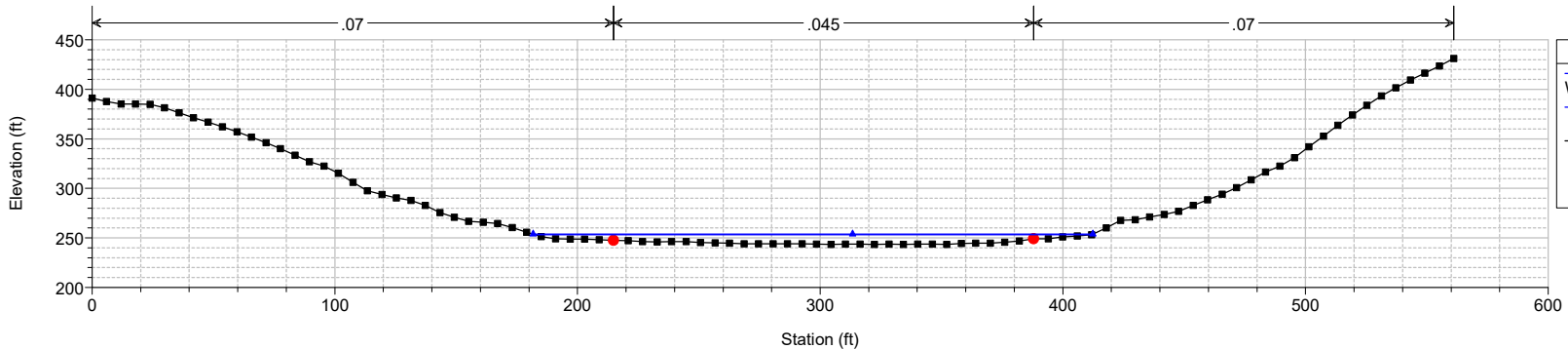


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 241597

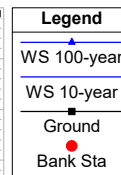
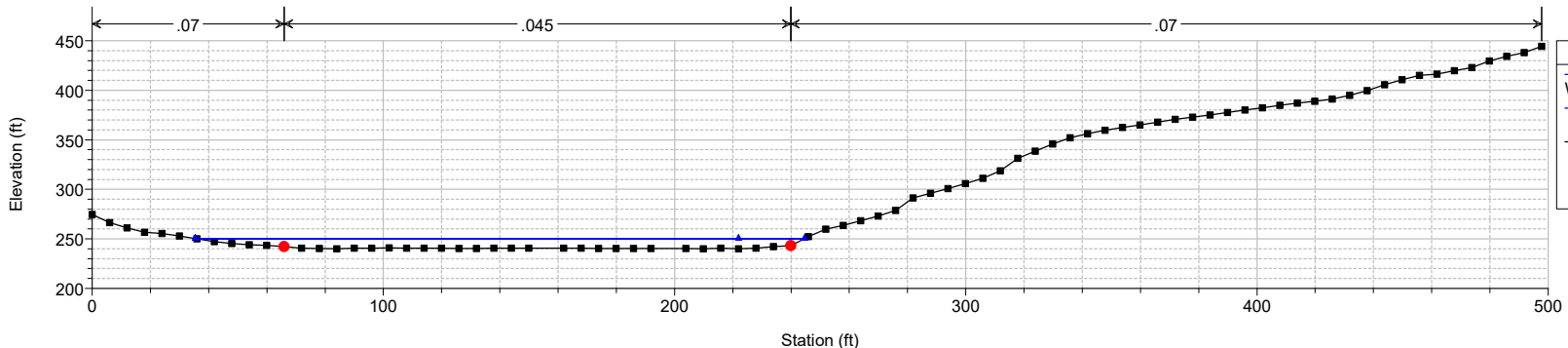




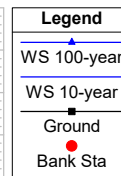
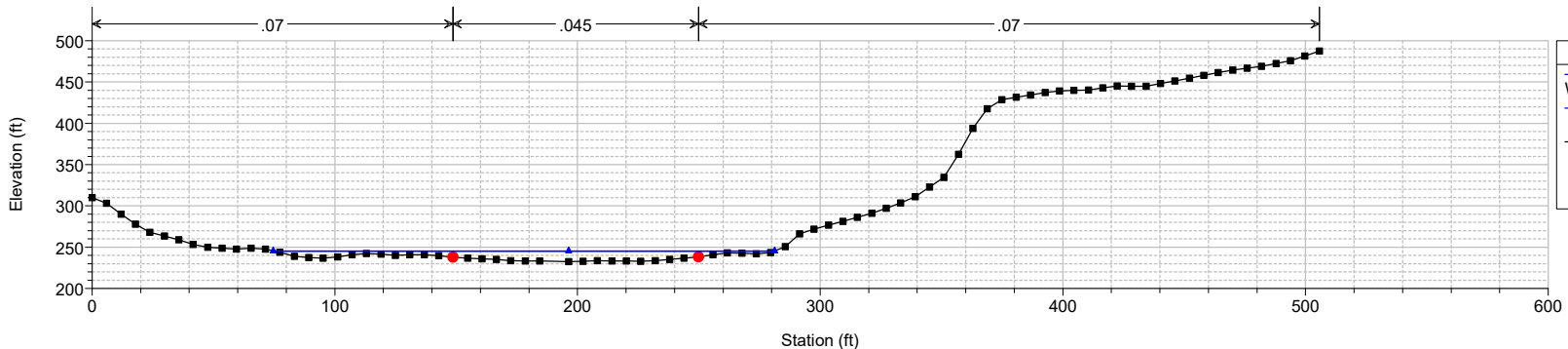
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 239010

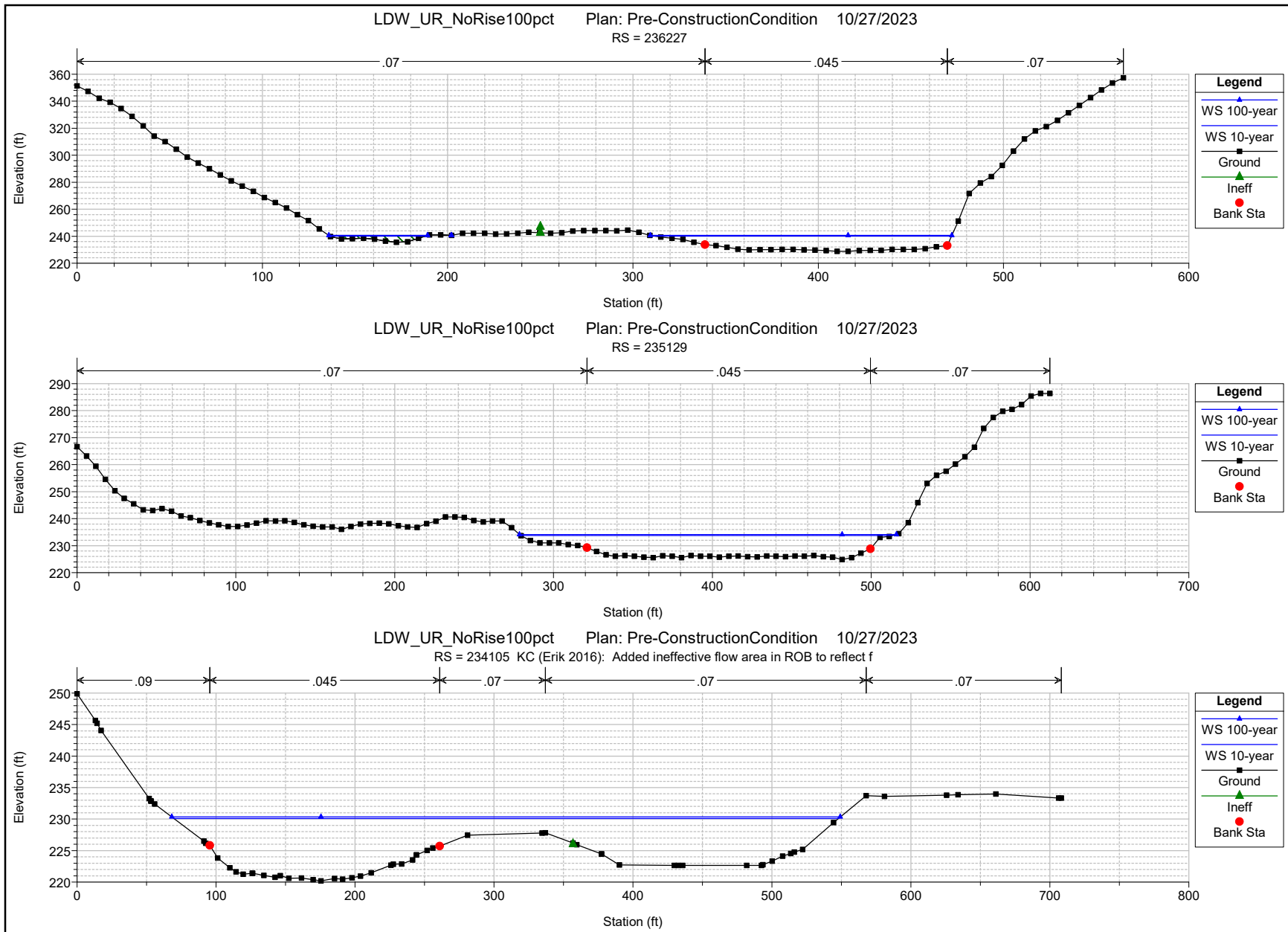


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 238123

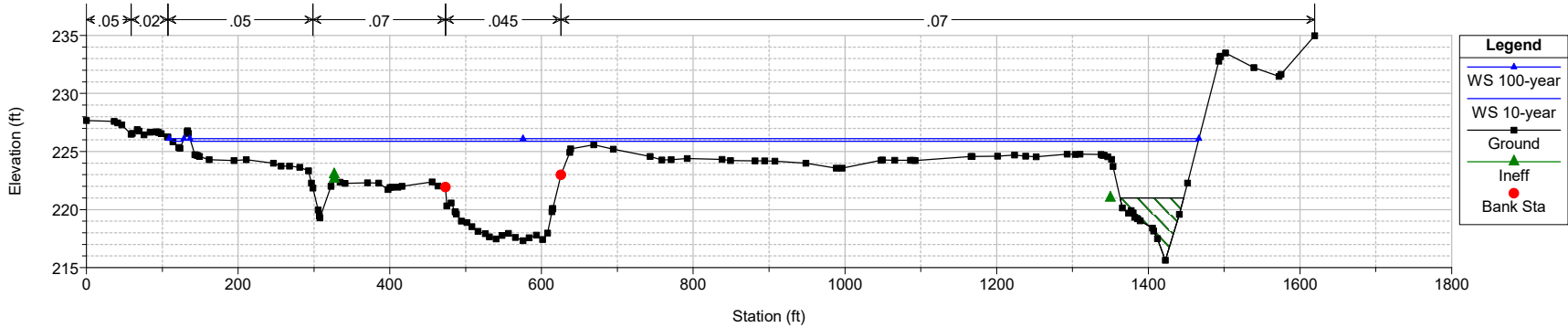


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 237109

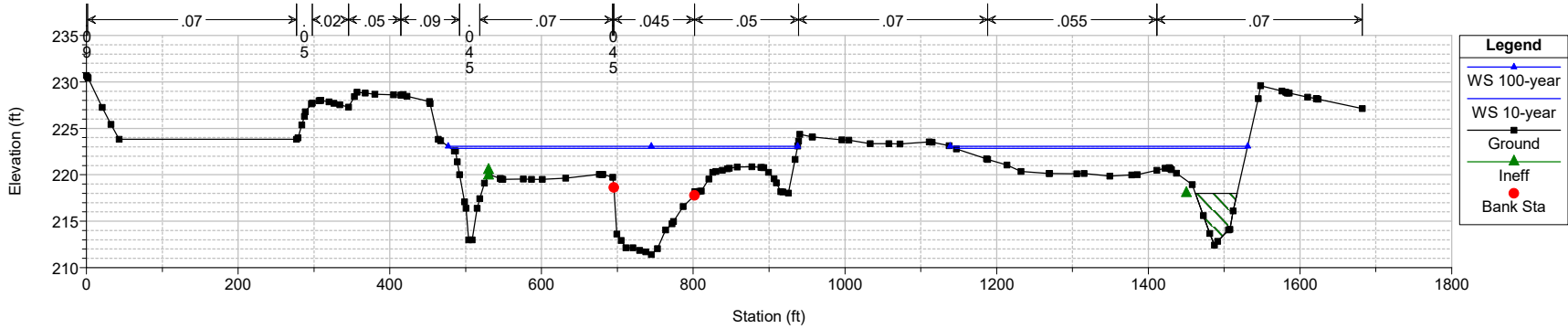




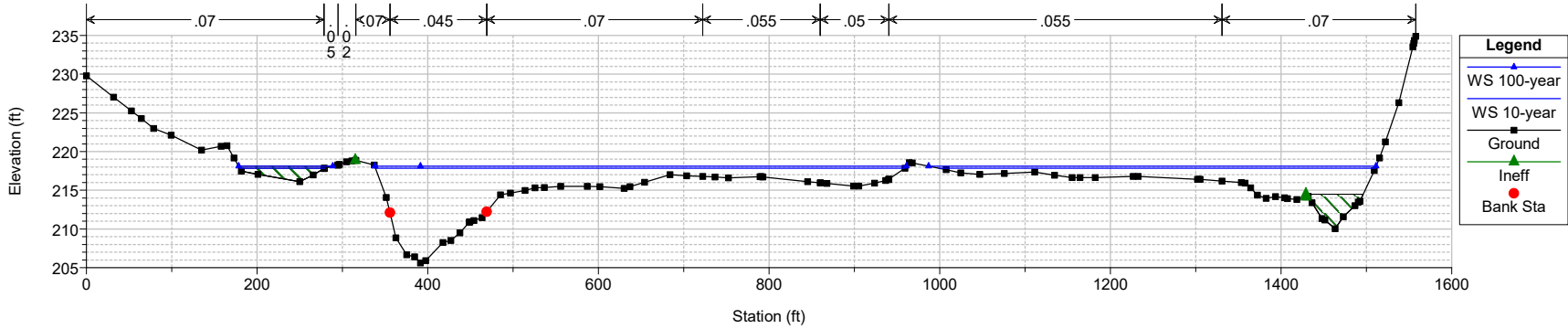
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 232663 KC (Erik P 2016): Made side channel an ineffective flow area.



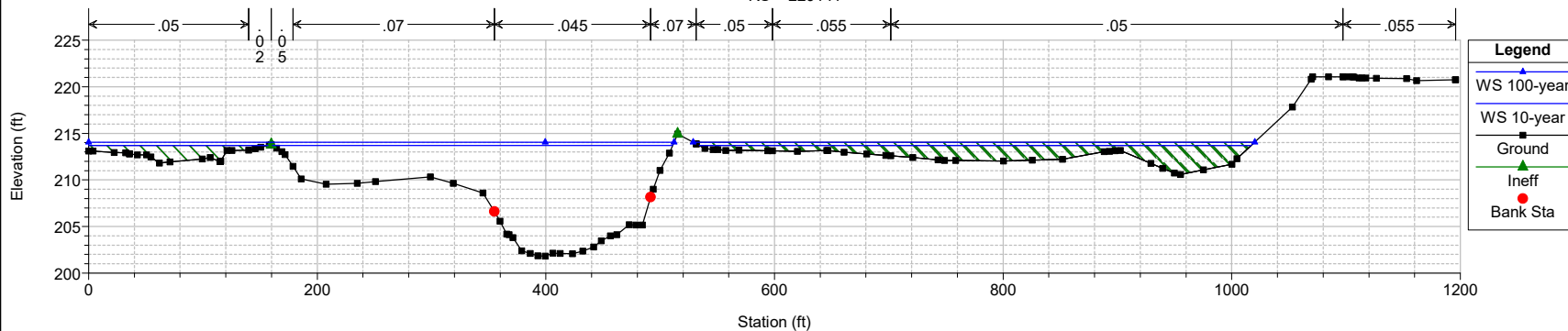
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 231739 NHC: Side channel bottom was modified between stations 492 and



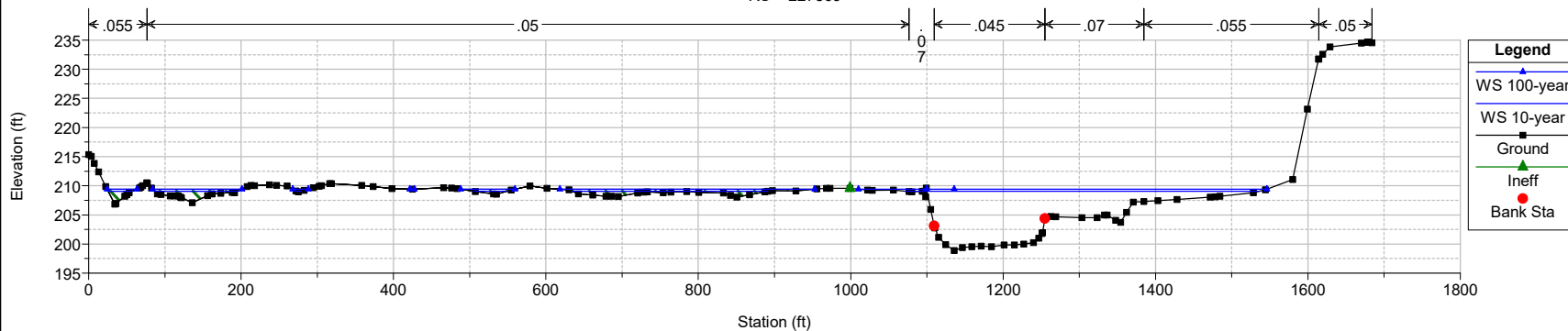
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 230303 KC (Erik P 2016): Added ROB ineffective area, elev. based on flo



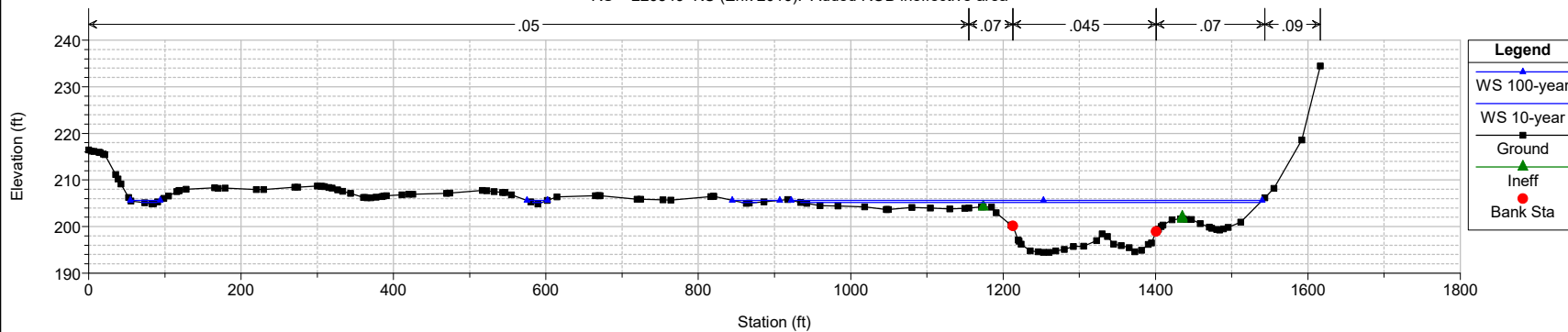
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 229141



LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 227869

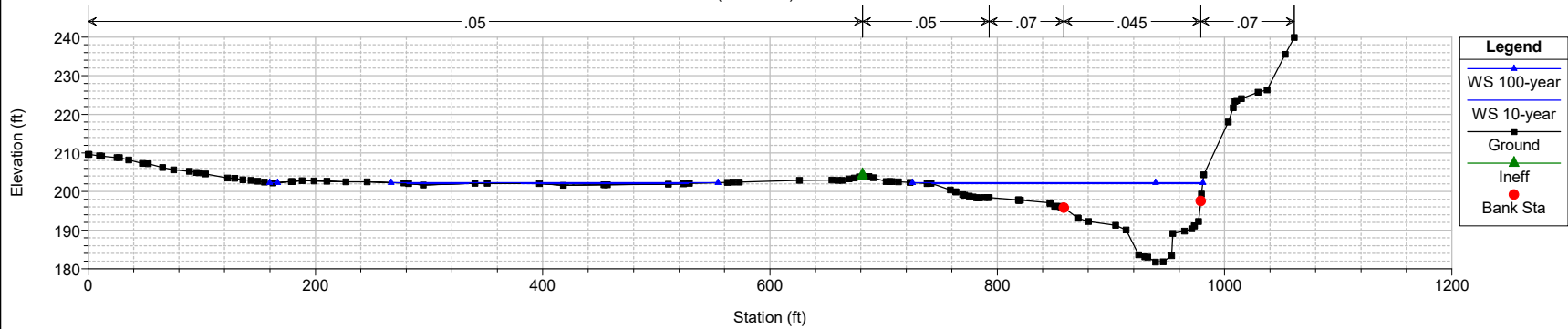


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 226549 KC (Erik 2016): Added ROB ineffective area

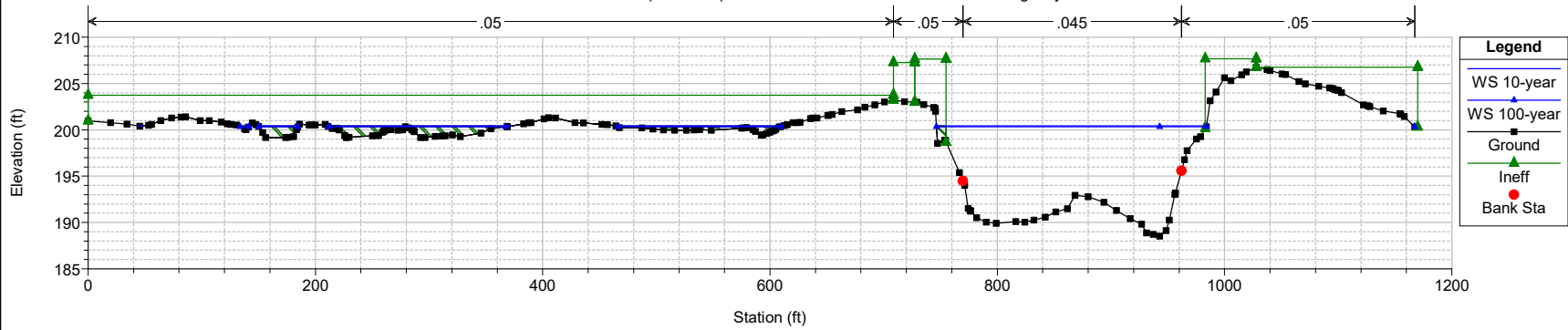




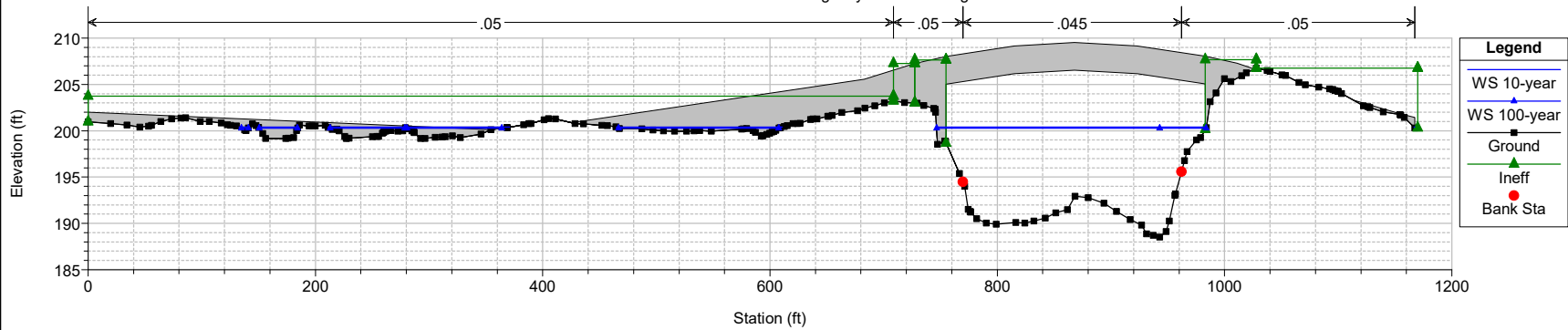
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 225329 KC (Erik 2016): Added LOB ineffective area



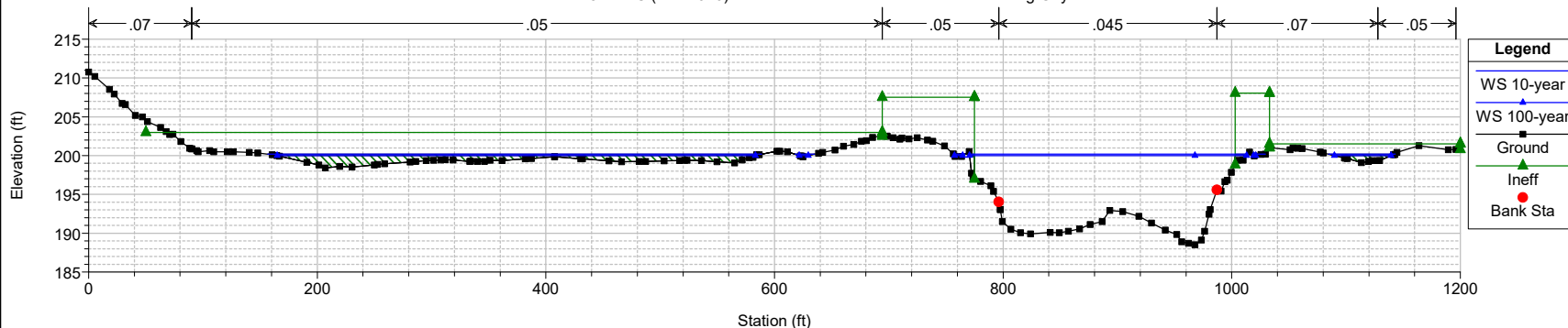
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 224659 KC (Erik 2016): Added ineffective areas to reflect Flaming Geysers



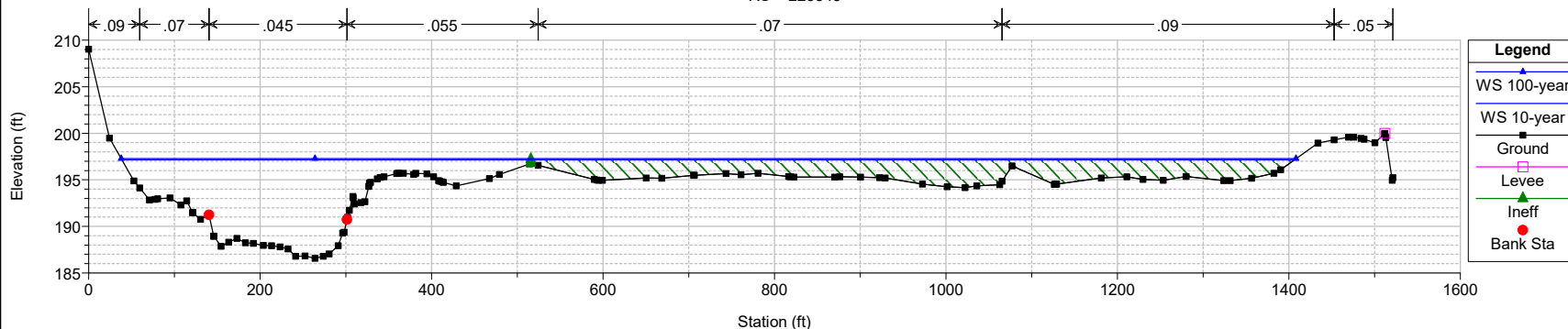
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 224622 BR SE Flaming Geyser Road Bridge



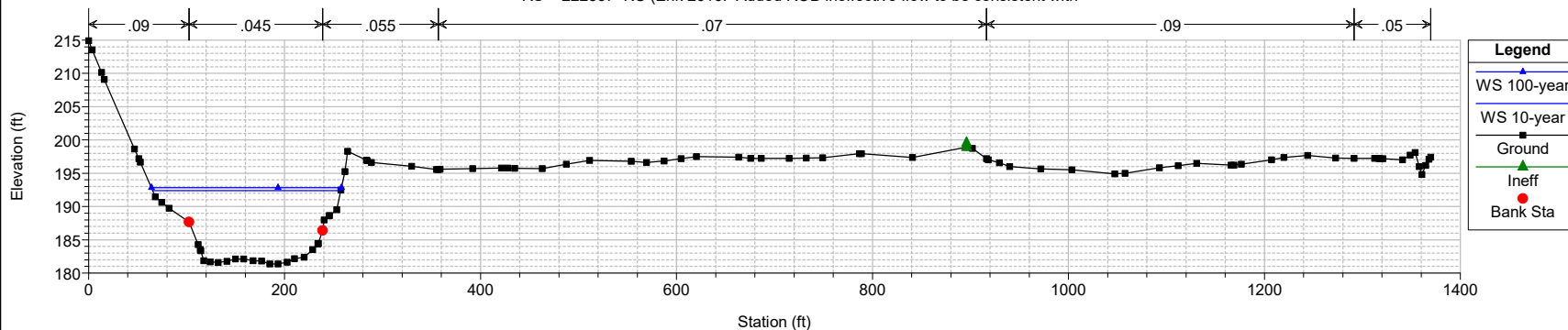
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 224574 KC (Erik 2016): Added ineffective areas to reflect Flaming Geys

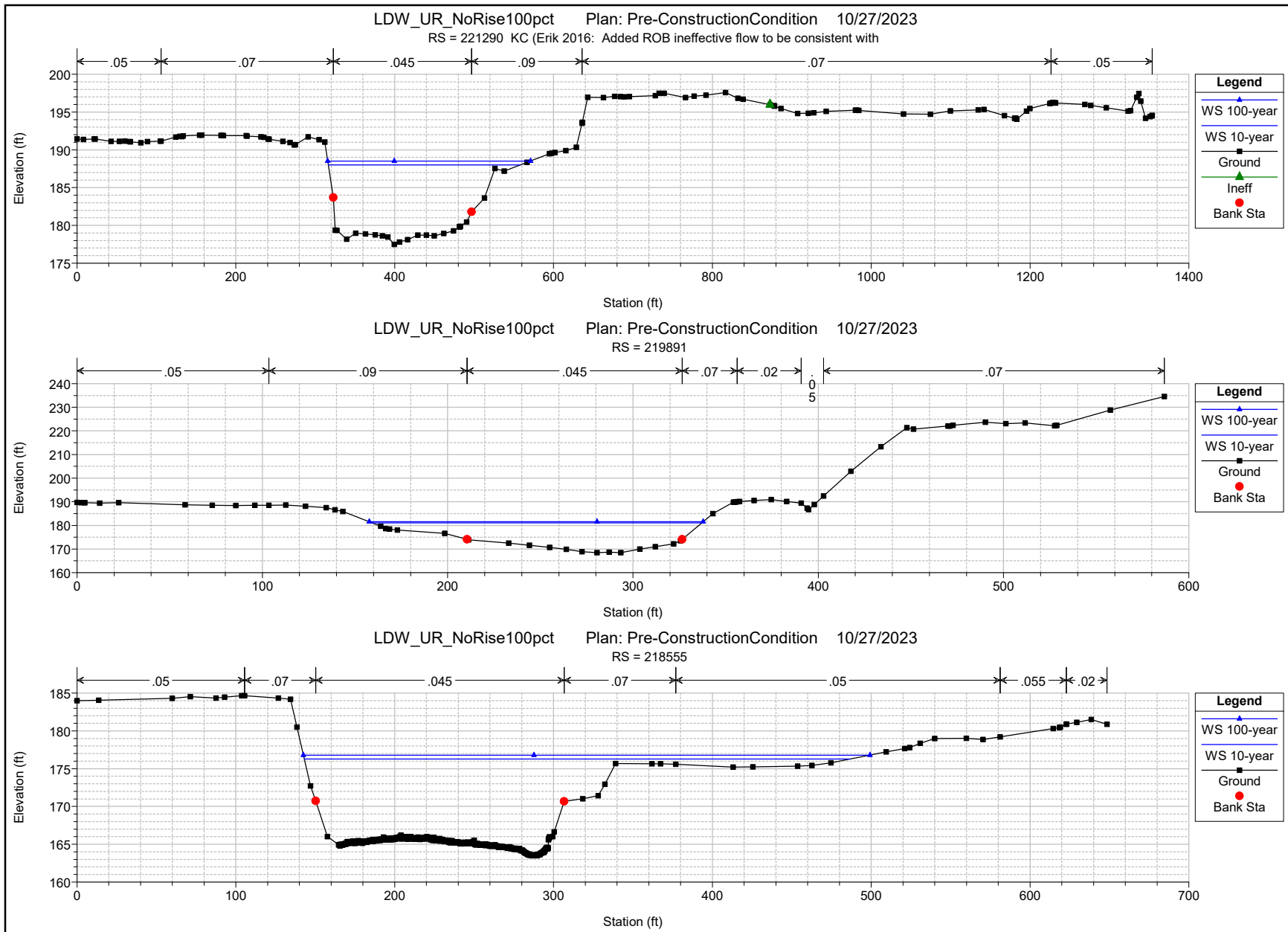


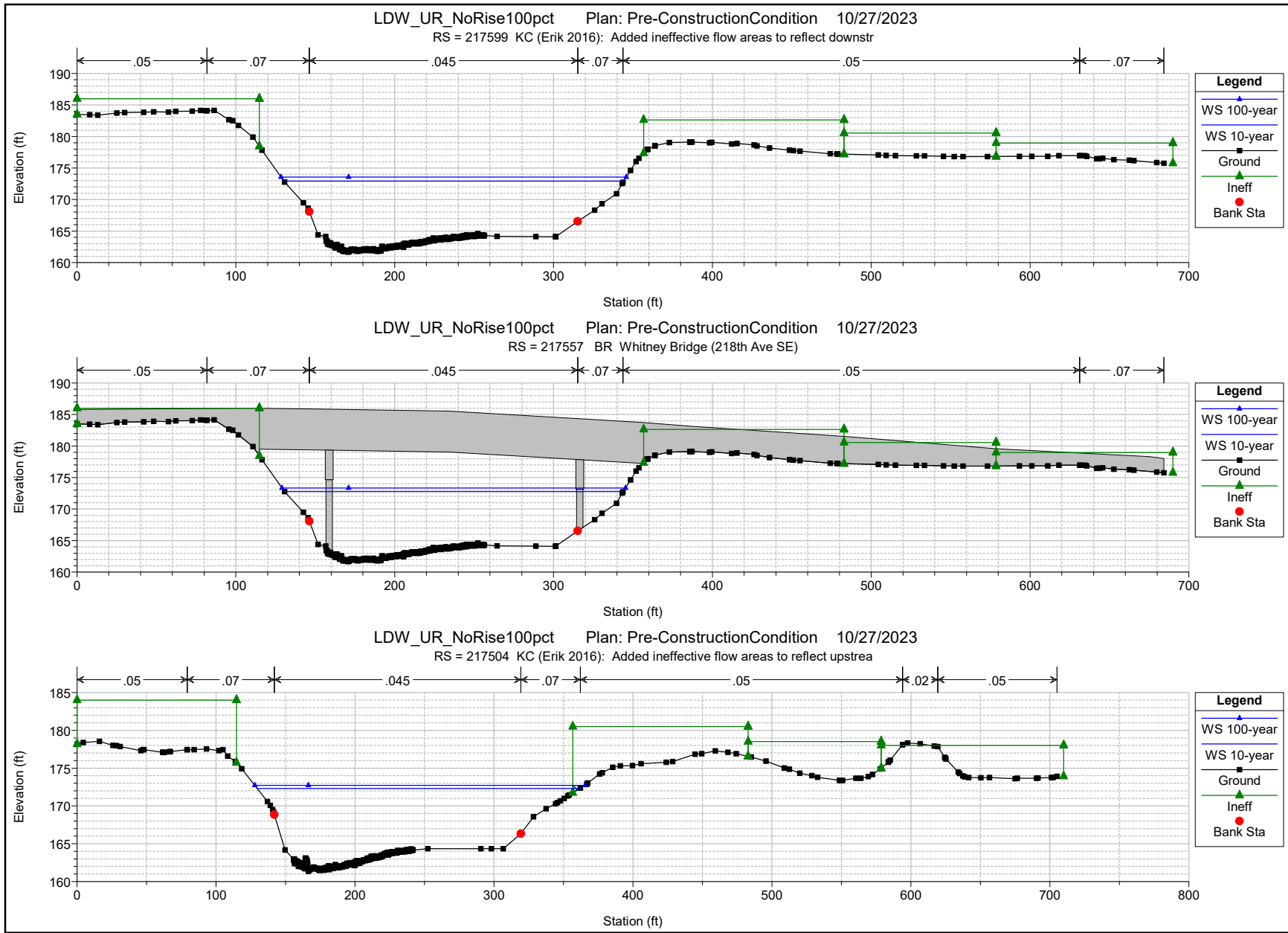
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 RS = 223545



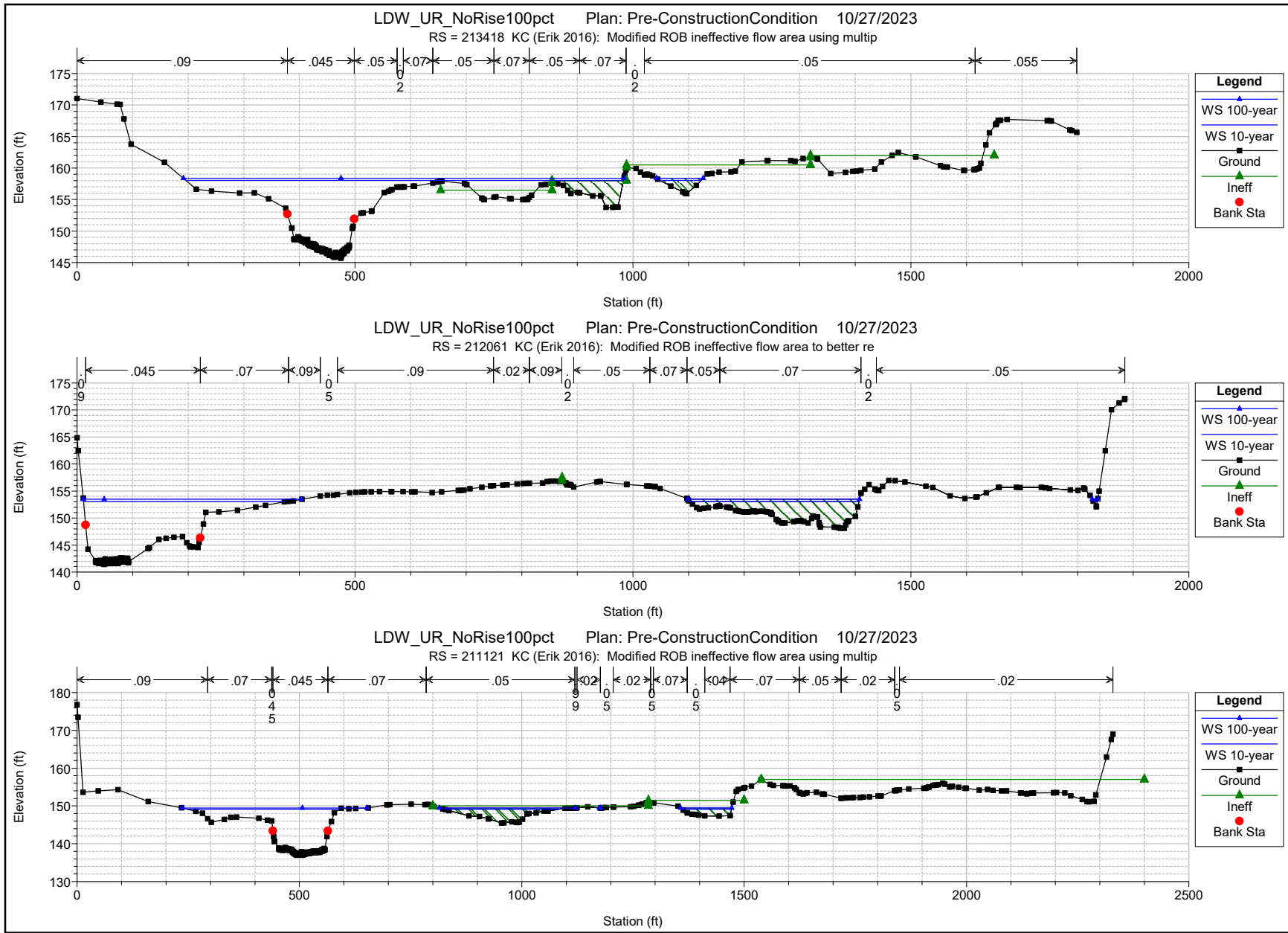
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 222367 KC (Erik 2016): Added ROB ineffective flow to be consistent with

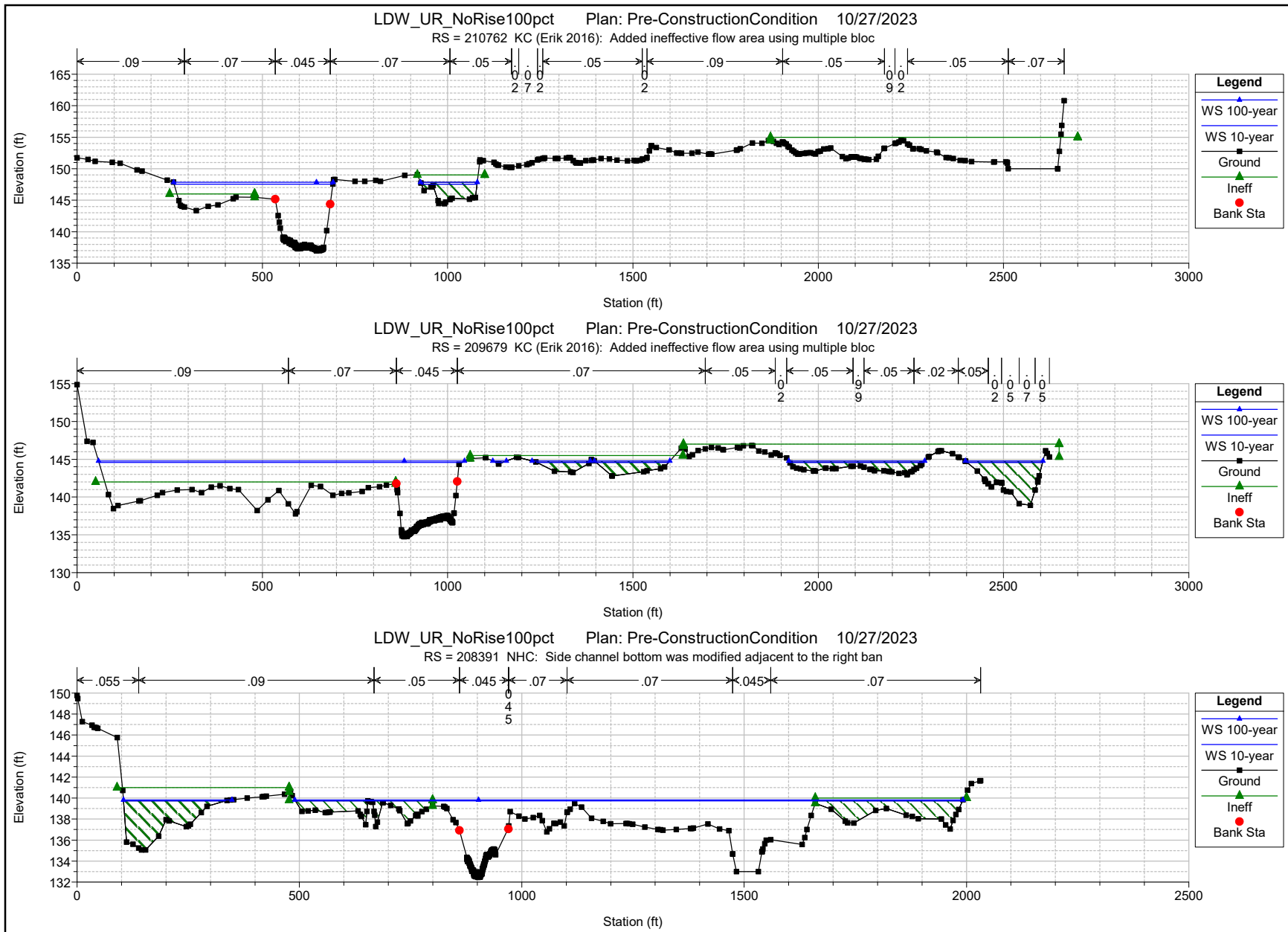


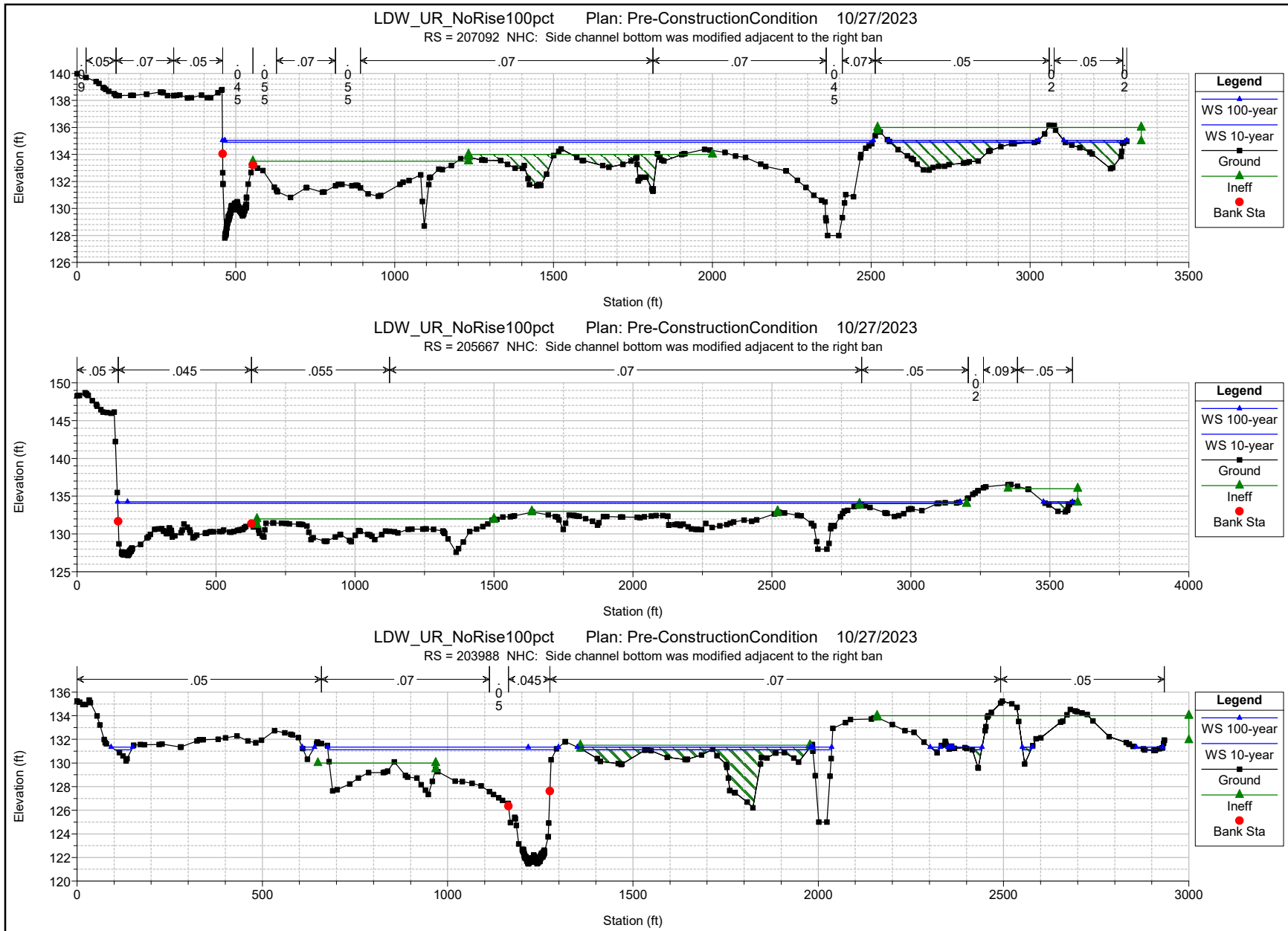




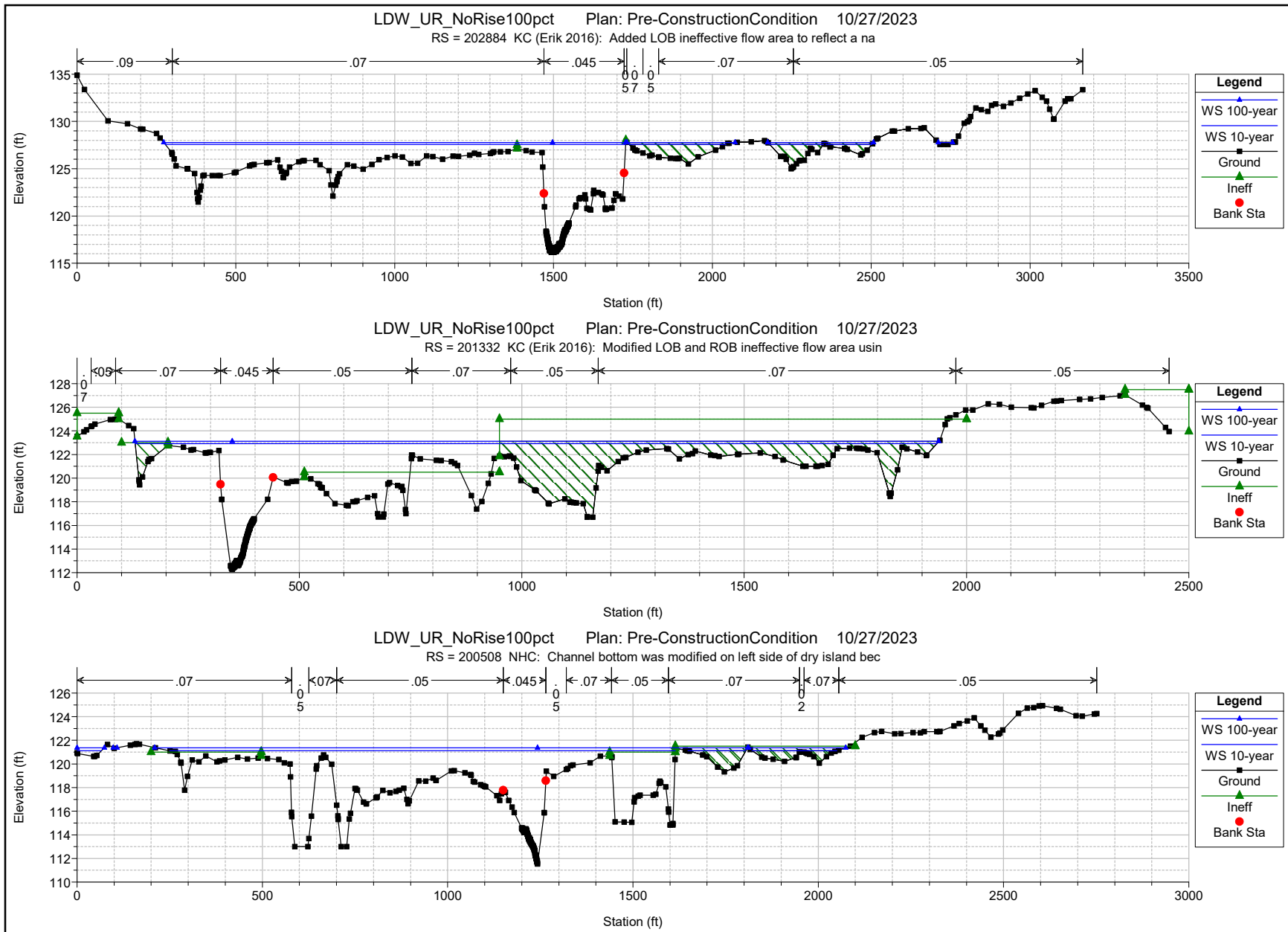


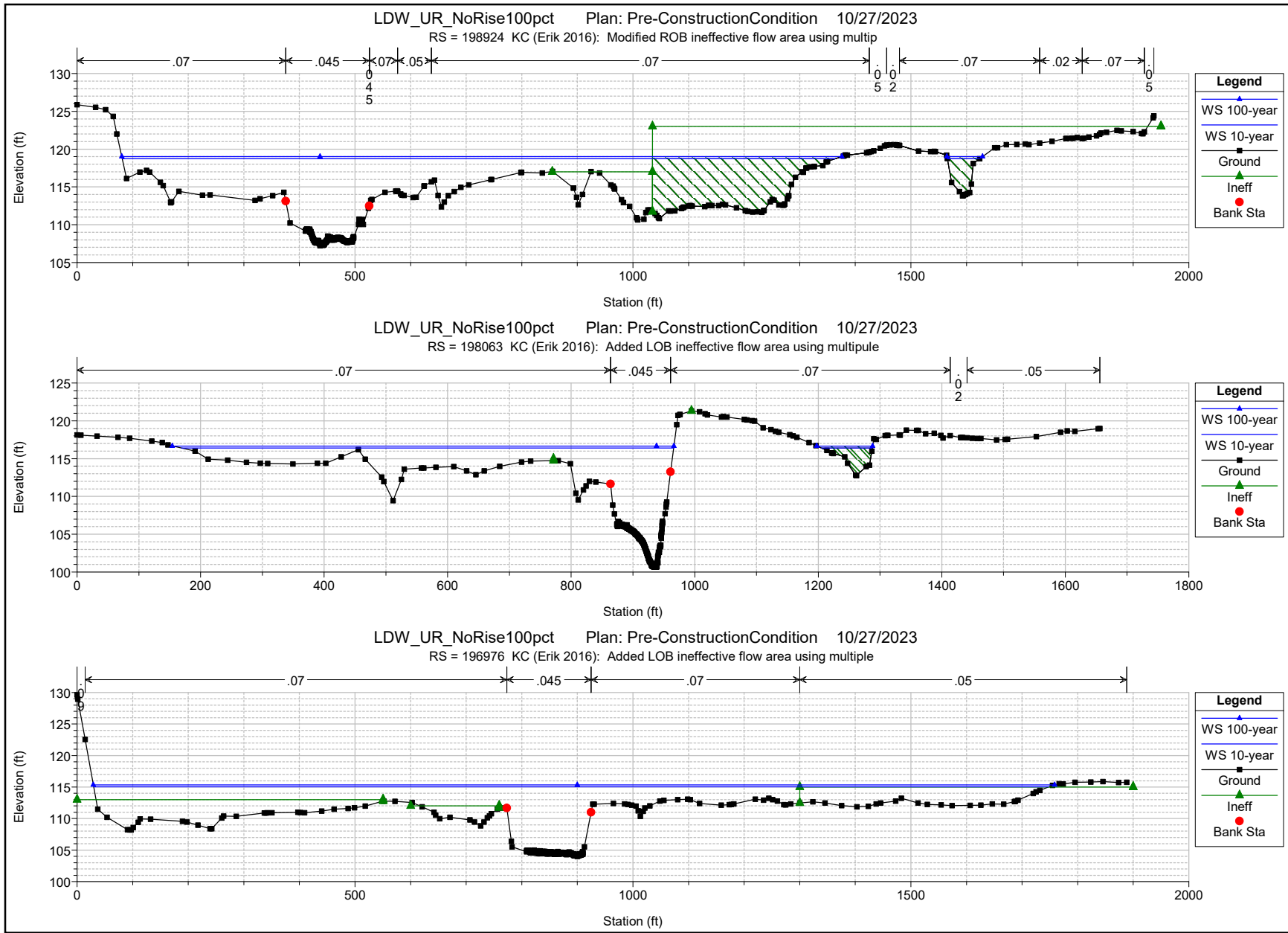




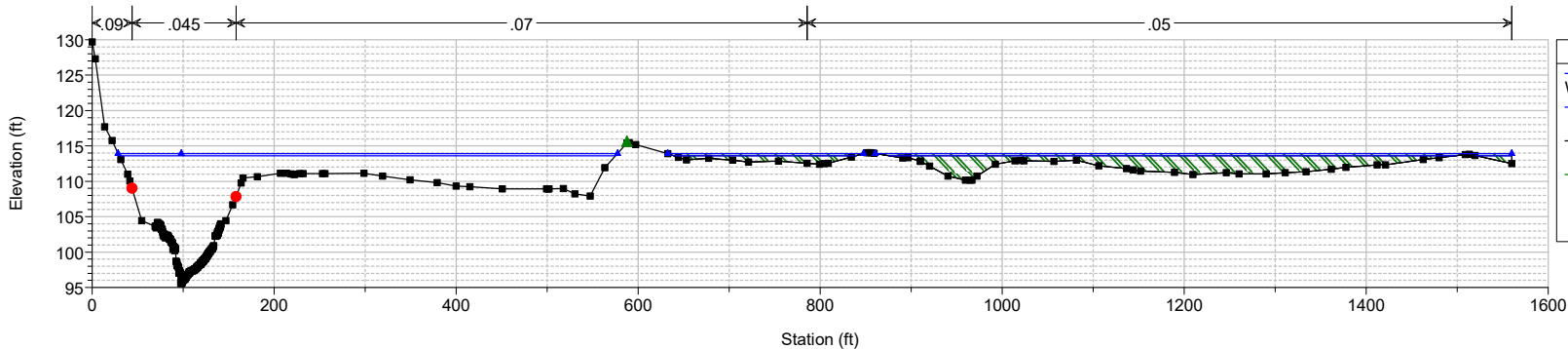




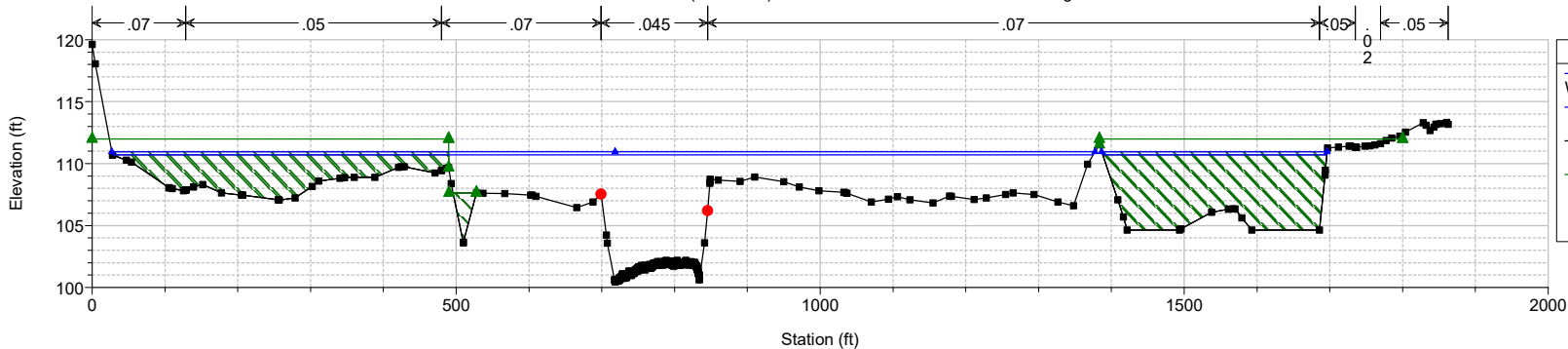




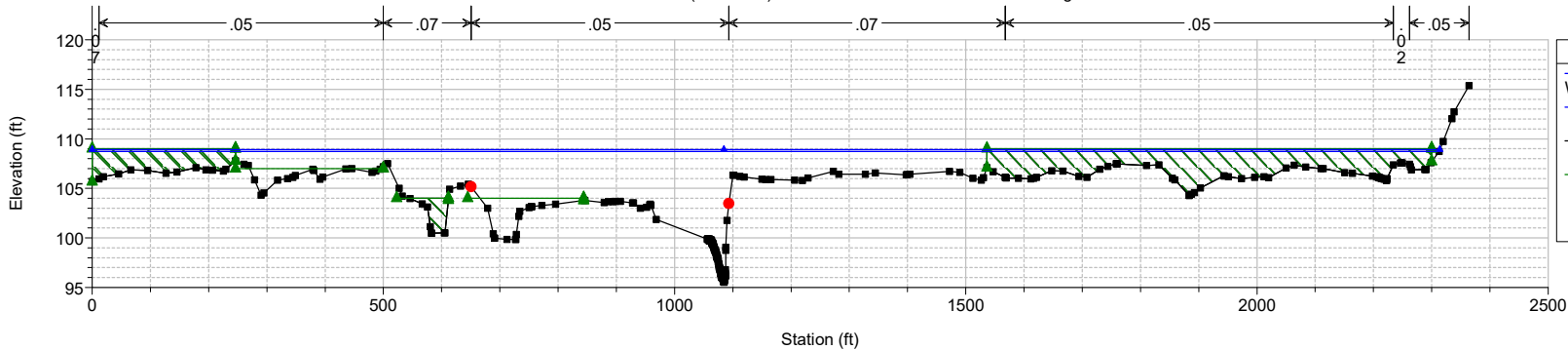
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 196242



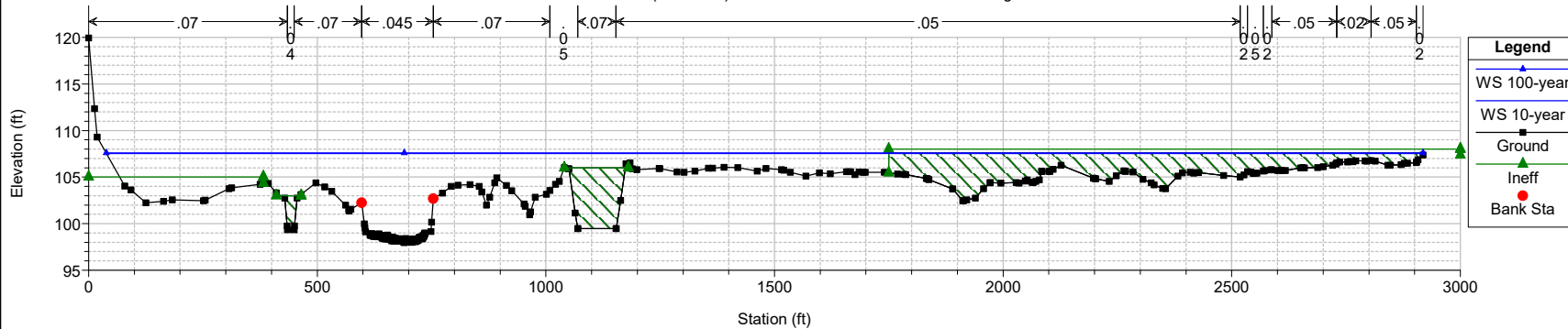
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 195101 KC (Erik 2016): Added LOB ineffective flow area using multi blo



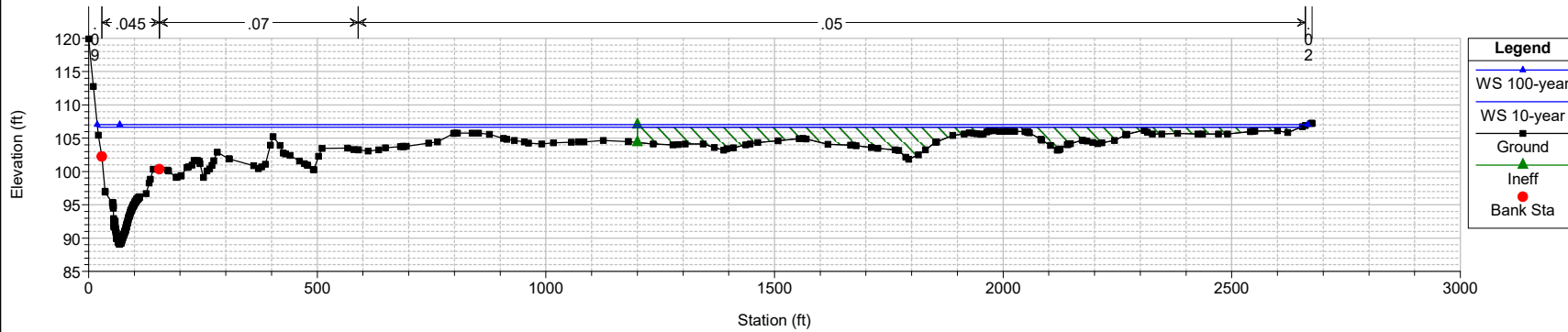
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 193966 KC (Erik 2016): Added LOB ineffective flow area using multi blo



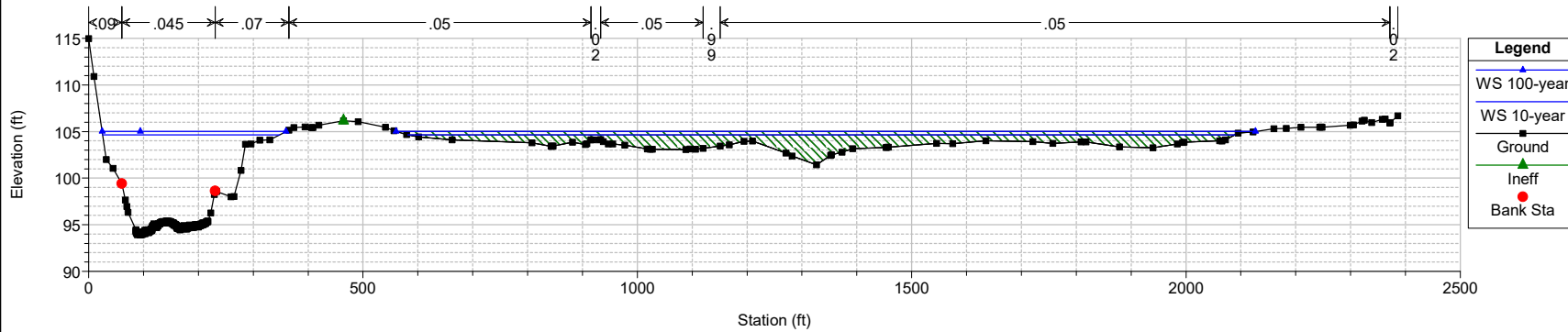
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 192952 KC (Erik 2016): Added LOB ineffective flow area using multi blo

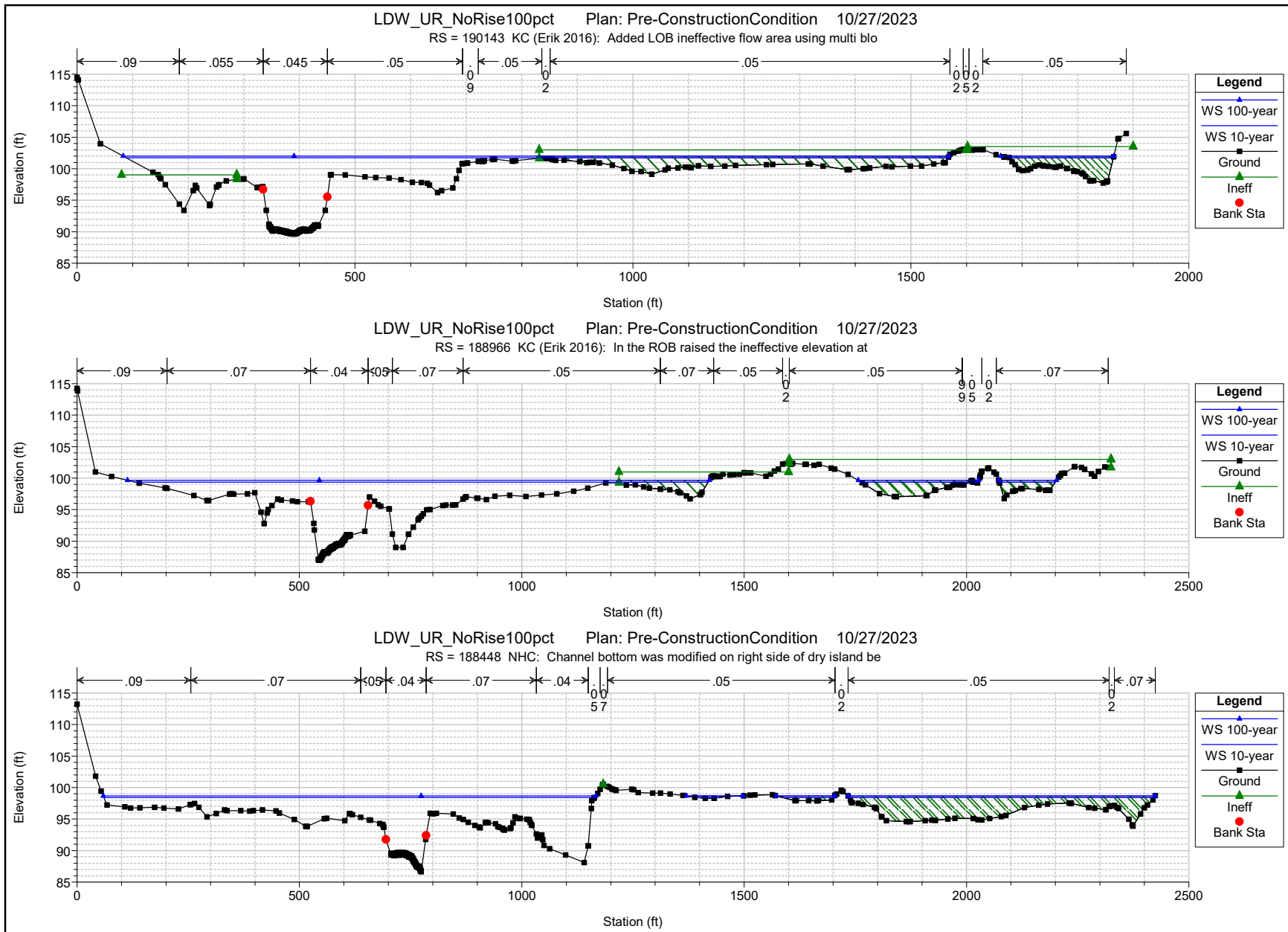


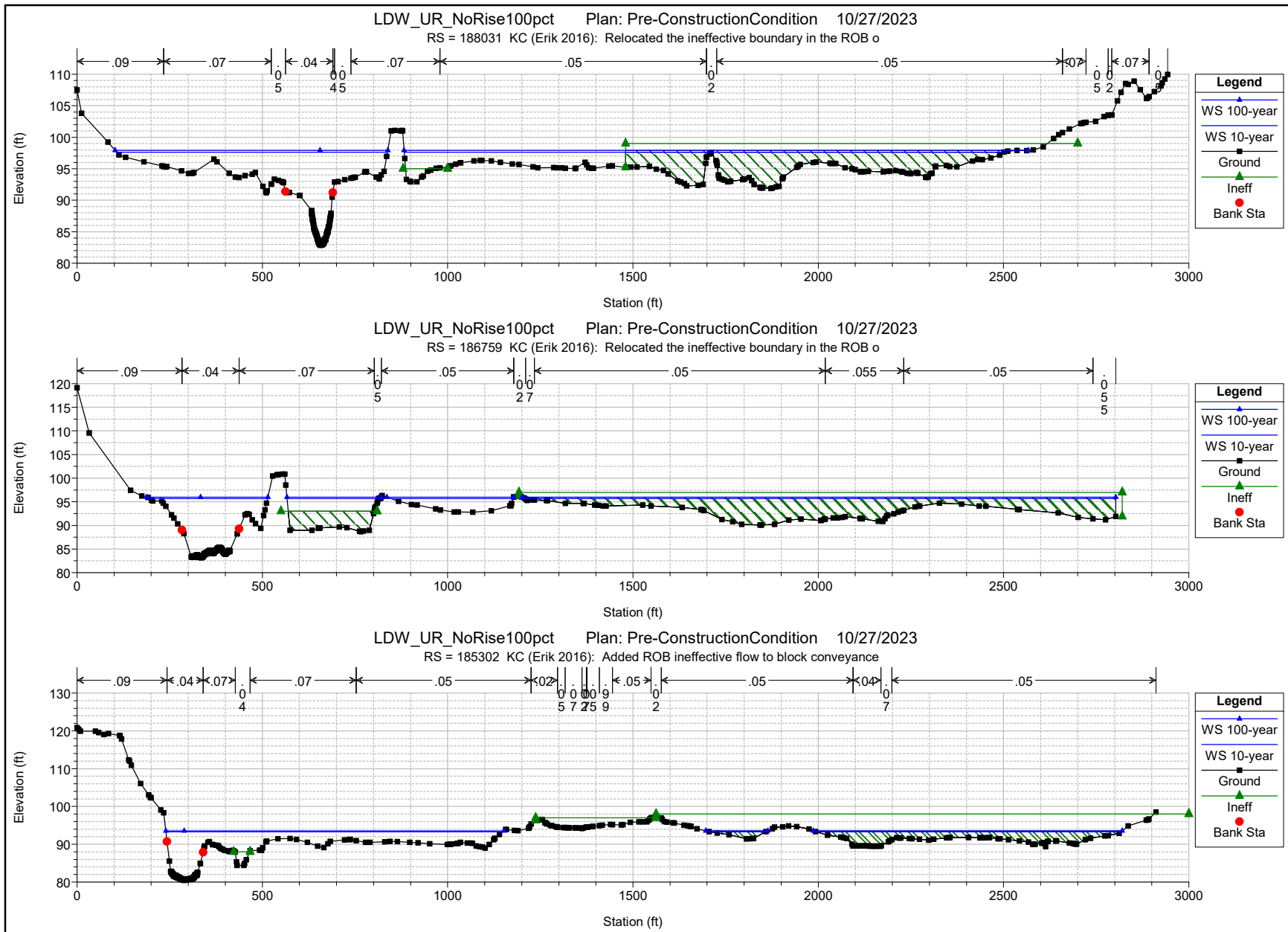
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 192134

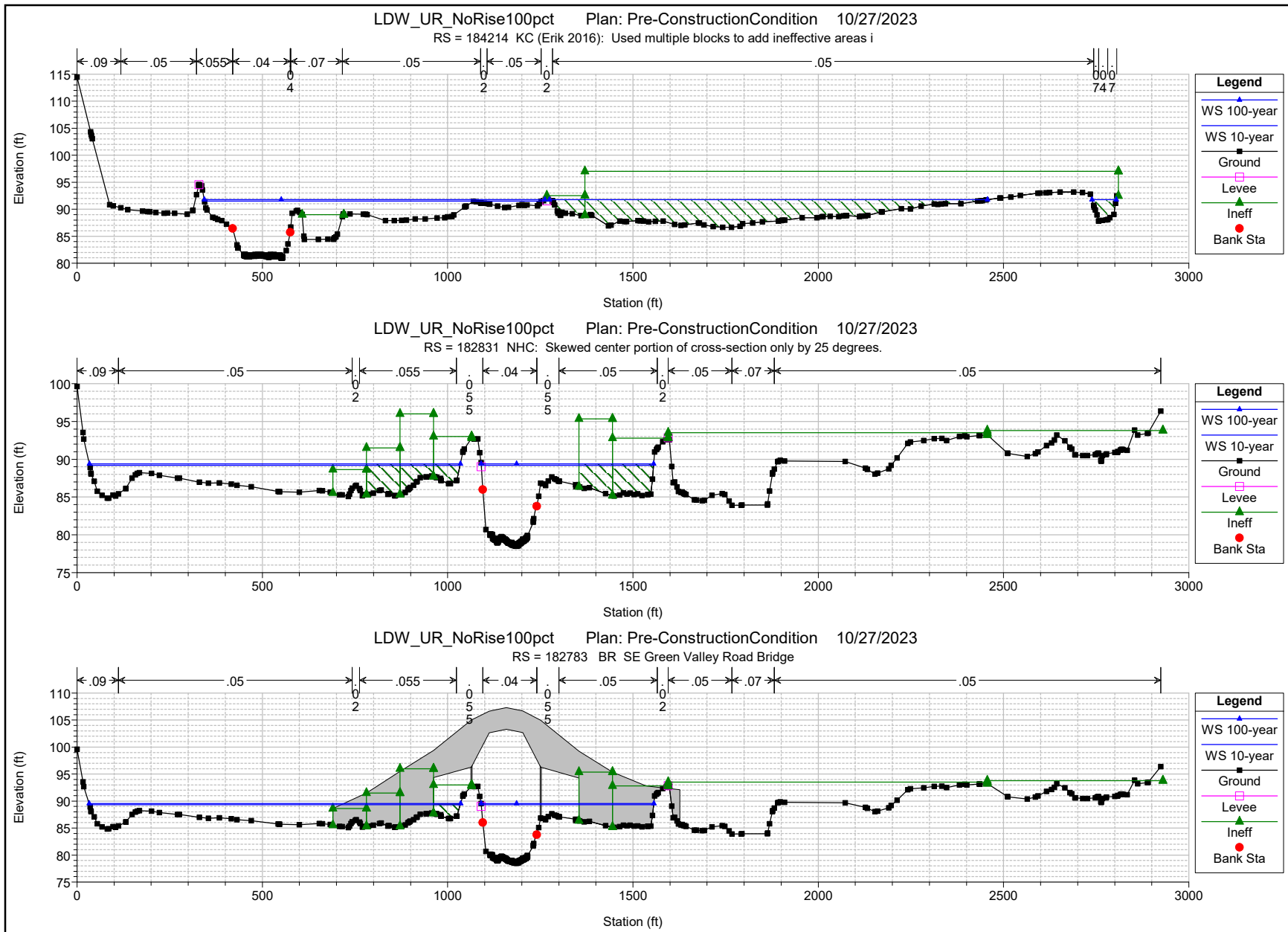


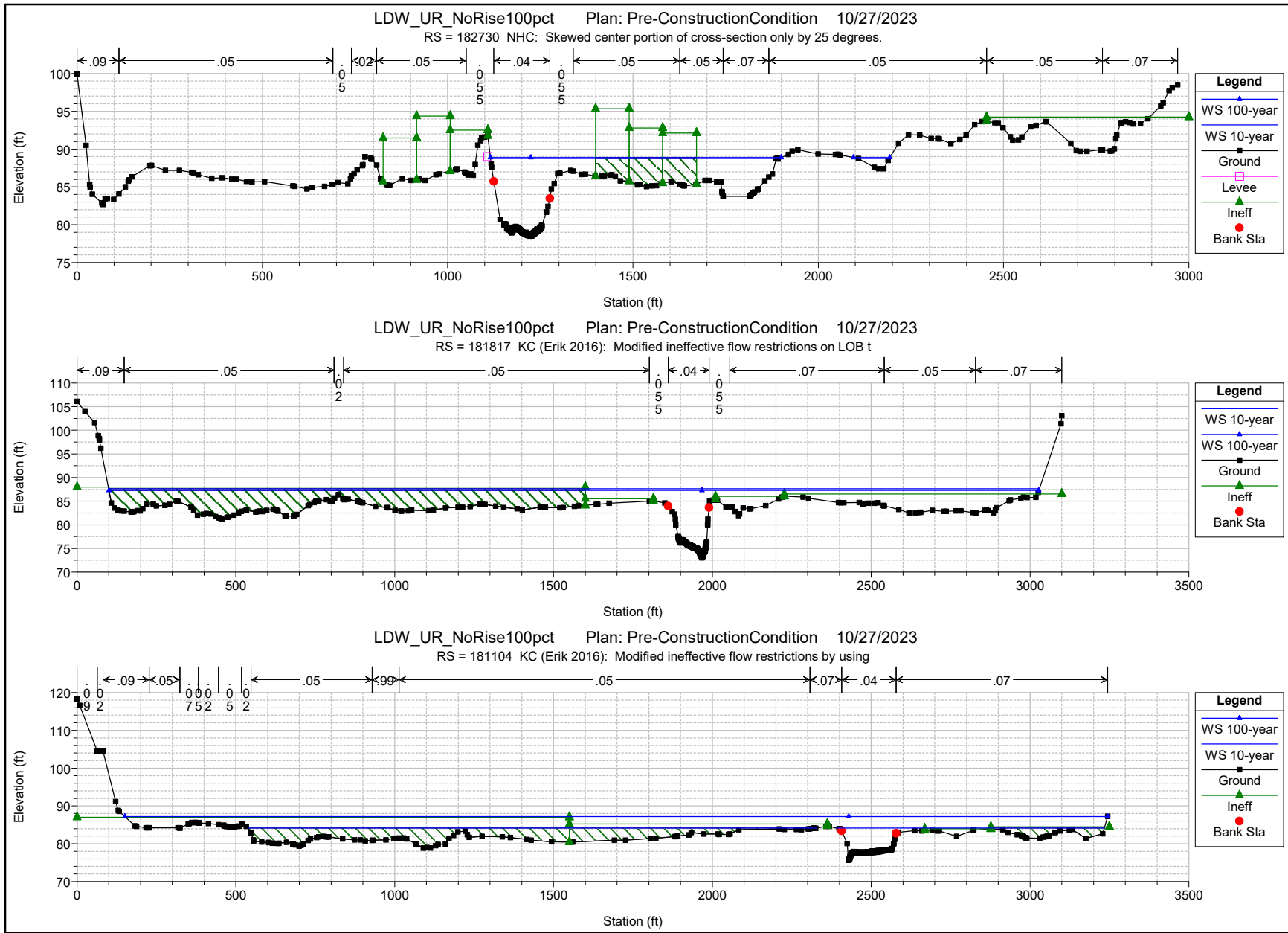
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 191358





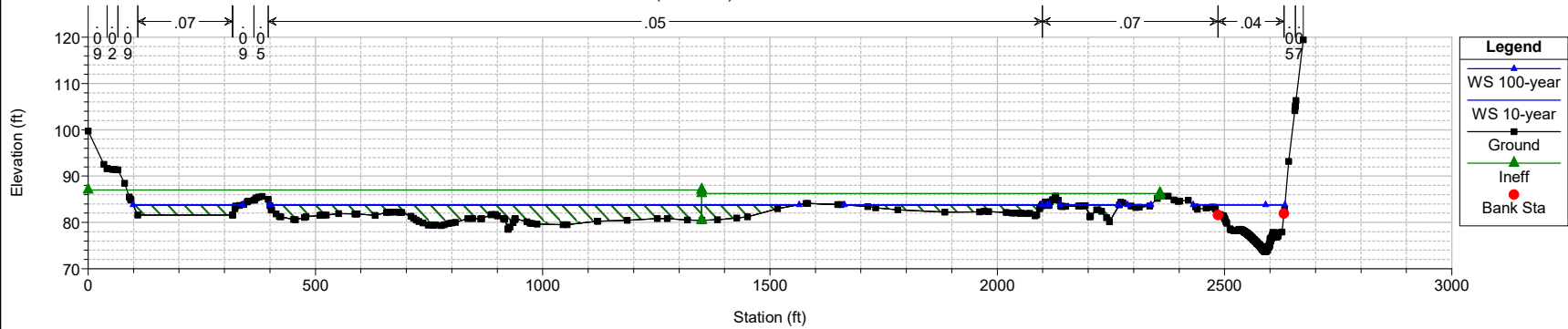




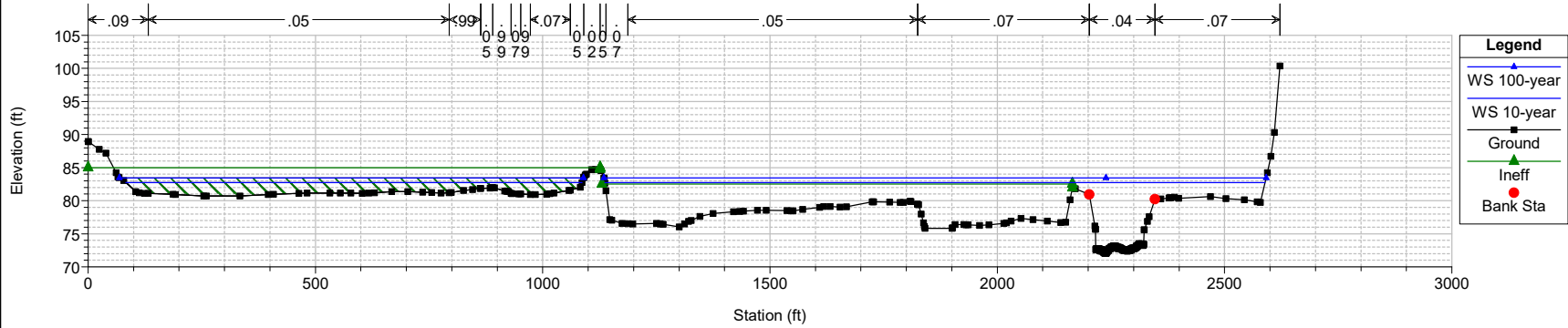




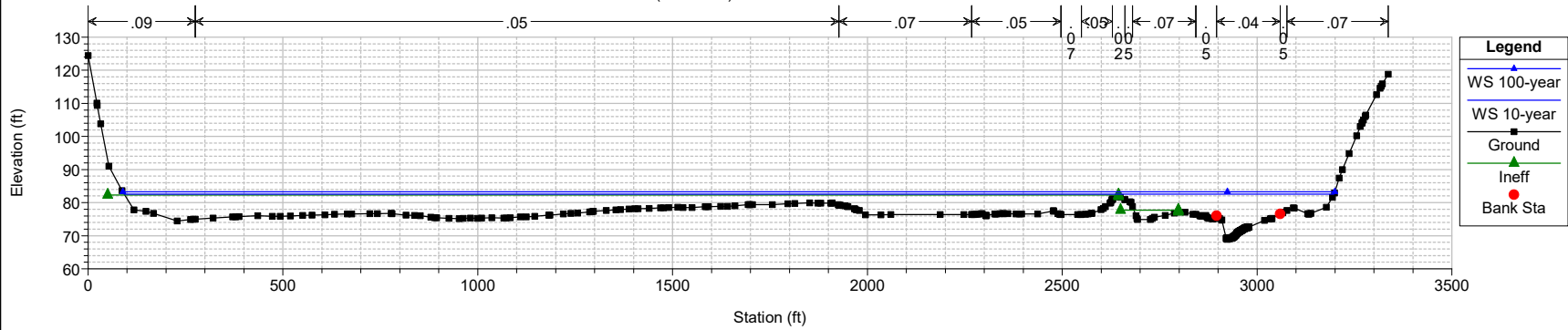
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 180264 KC (Erik 2016): Modified ineffective flow restrictions on LOB t

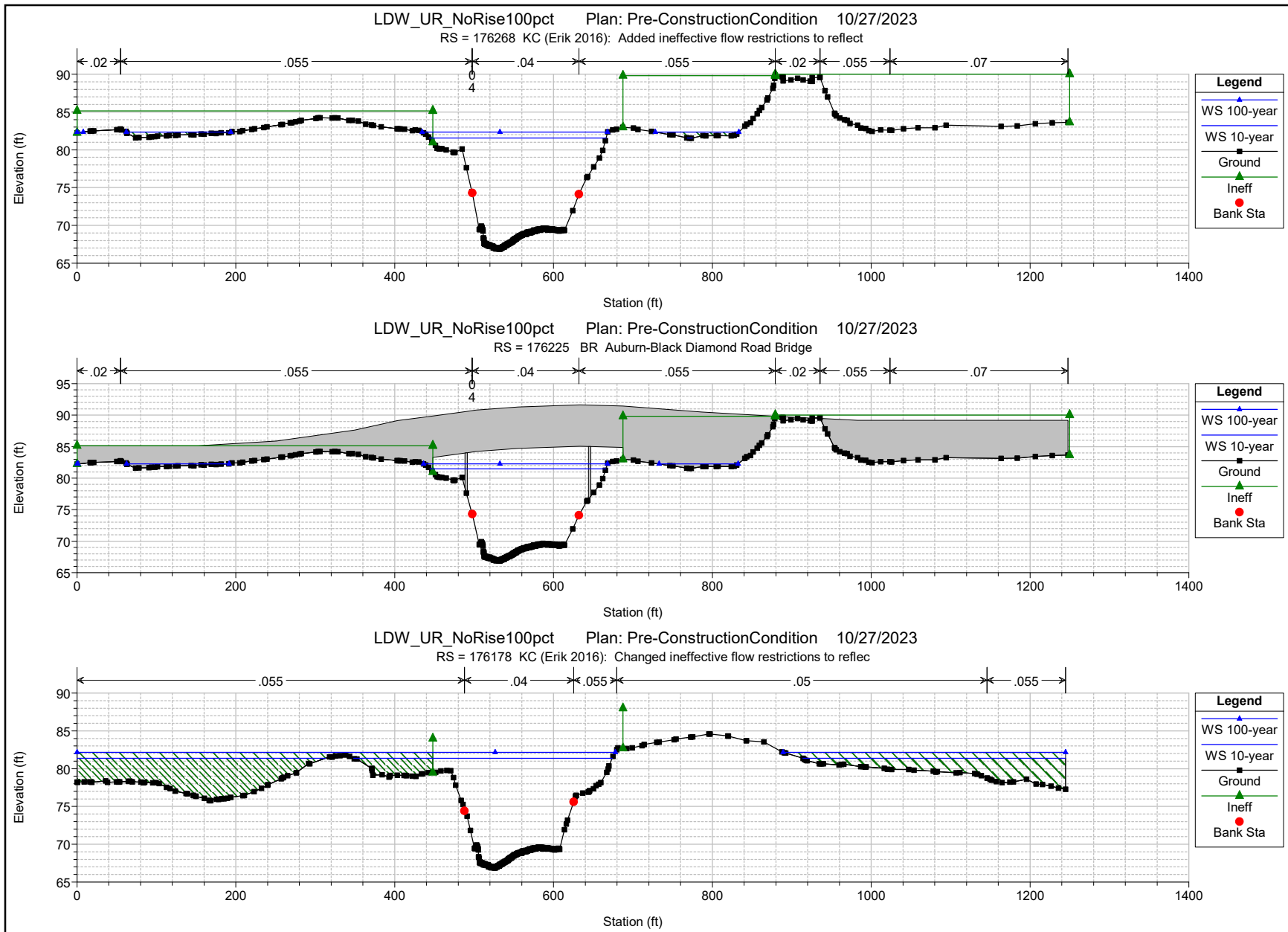


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 178865 KC (Erik 2016): Modified ineffective flow restrictions on LOB t

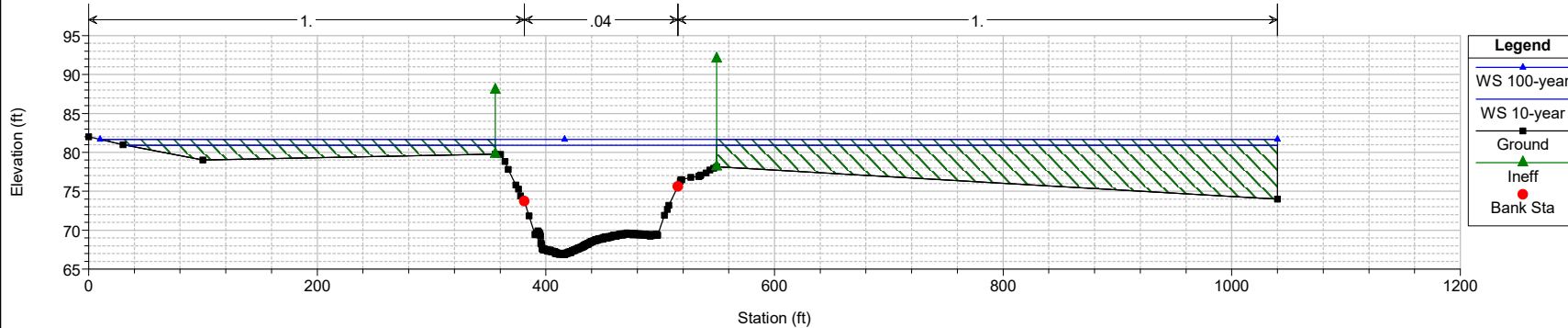


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 177545 KC (Erik 2016): Modified ineffective flow restrictions on LOB t

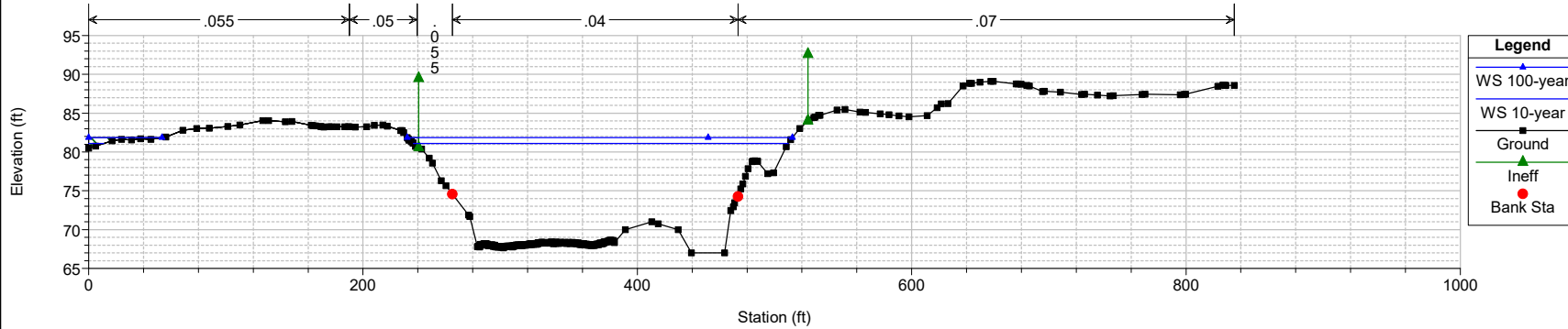




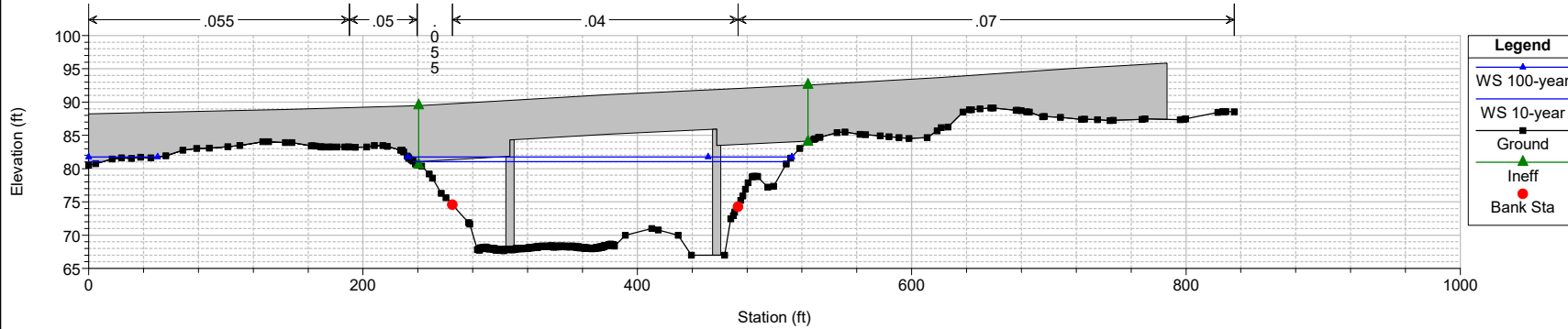
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 176056 KC (Erik 2016): Added XS in order to shift Soos Cr lateral infl



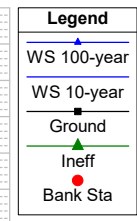
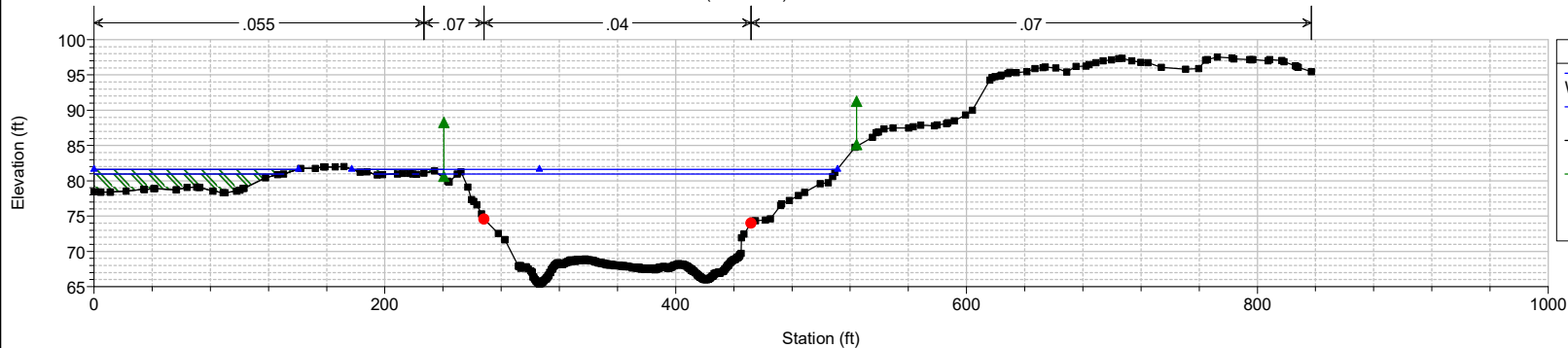
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 175940 NHC: Cross Section modified to account for separation between G



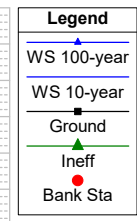
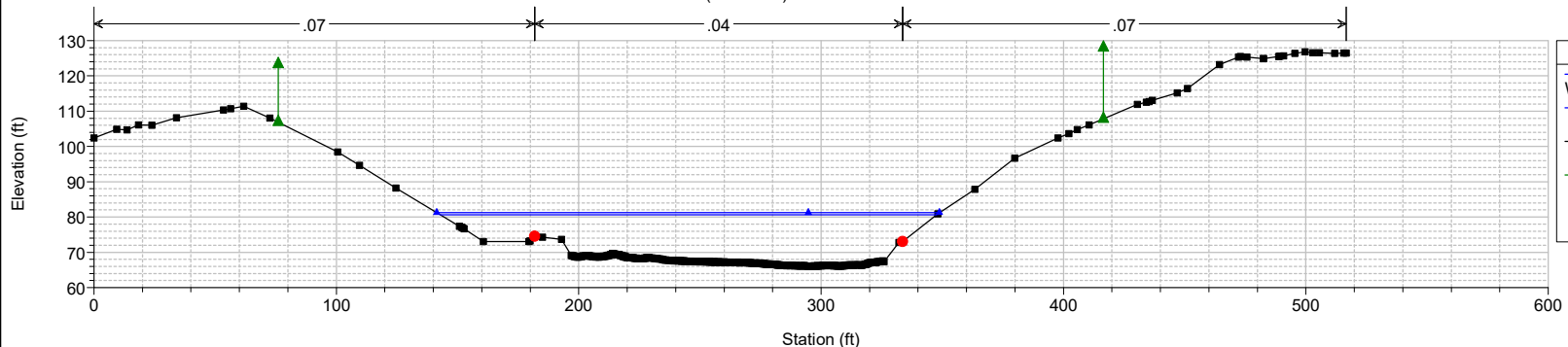
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 175919 BR Burlington Northern Railroad Bridge



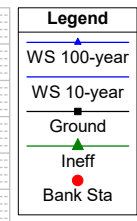
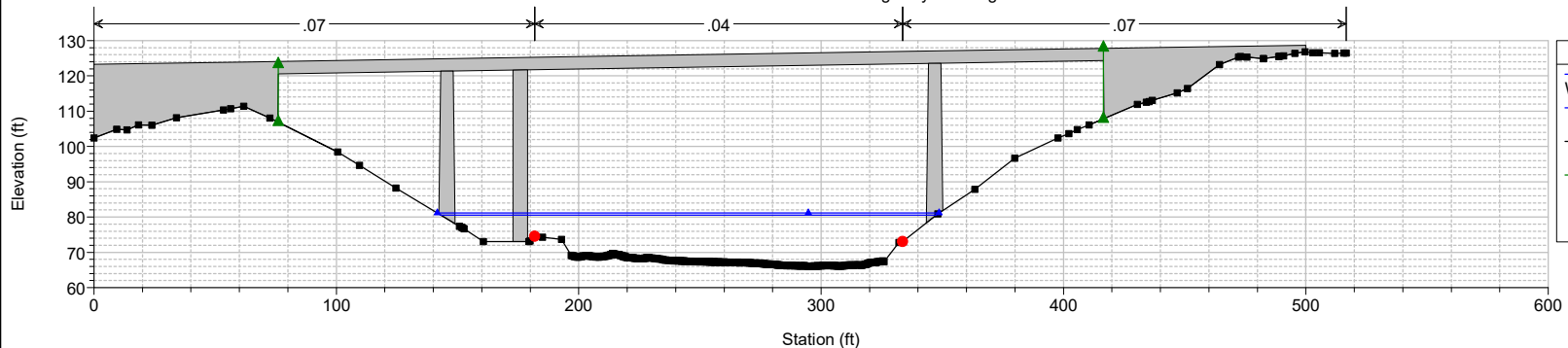
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 175893 KC (Erik 2016): Added ineffective flow restrictions to reflect

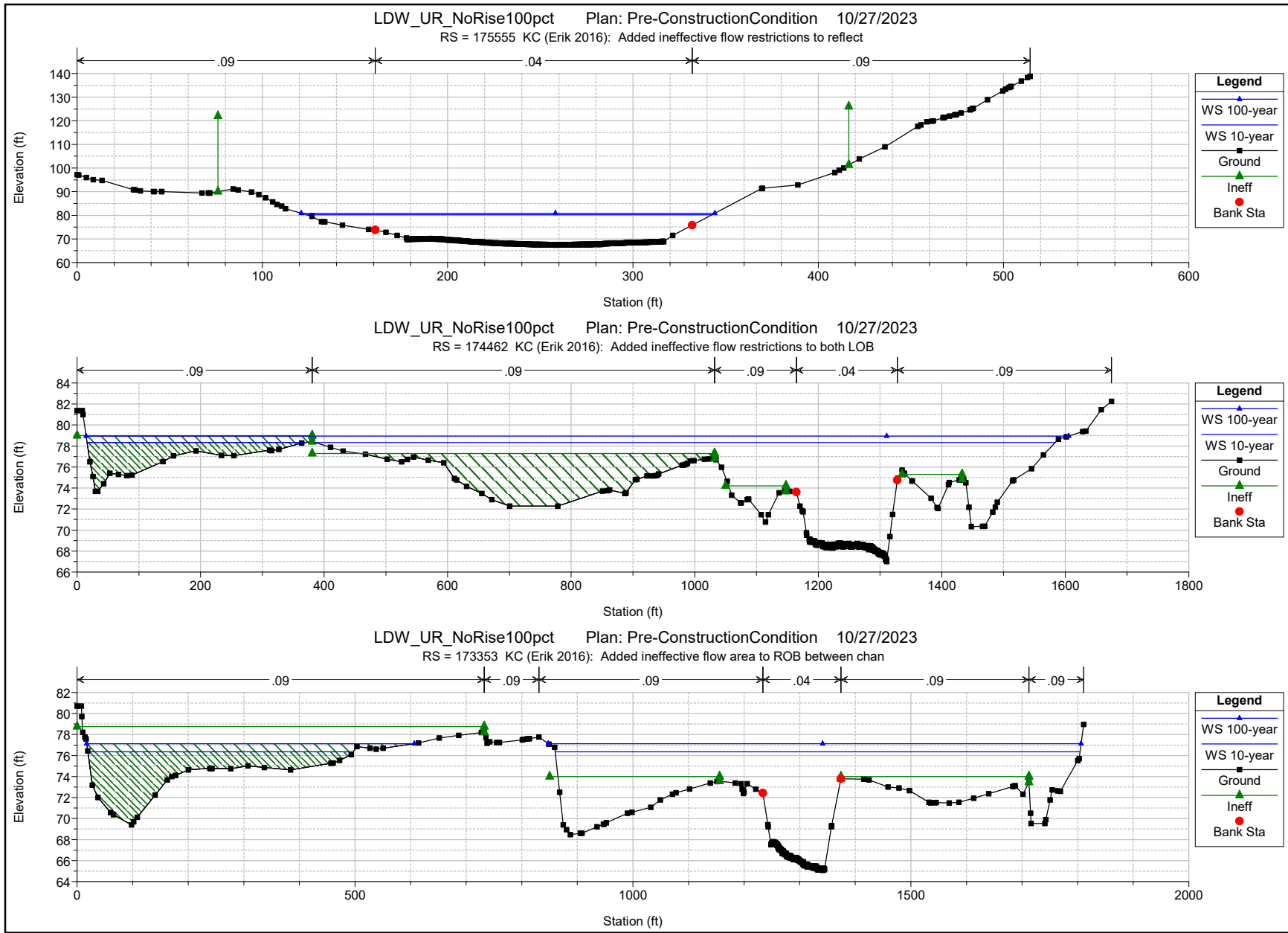


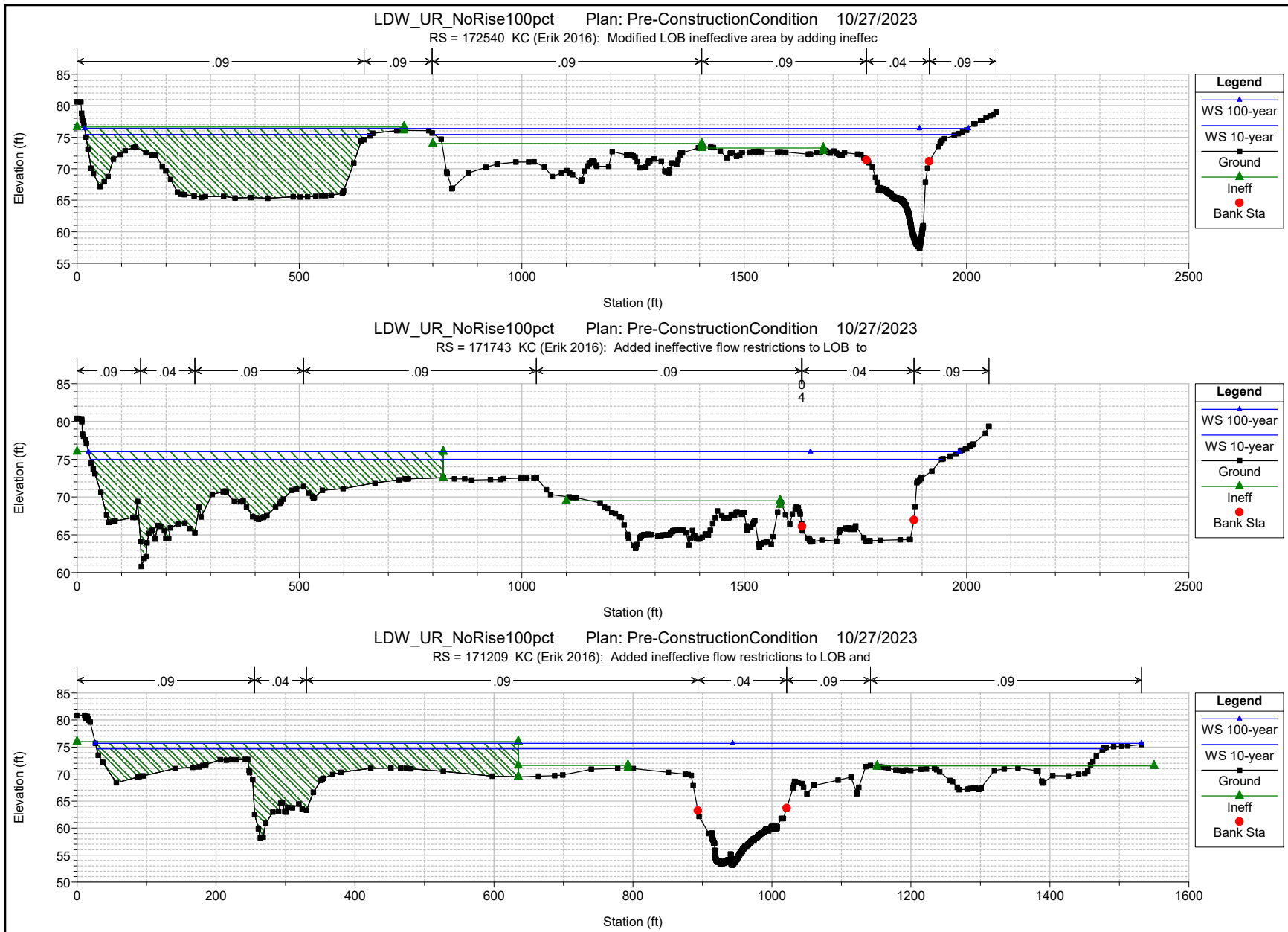
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 175708 KC (Erik 2016): Added ineffective flow restrictions to reflect

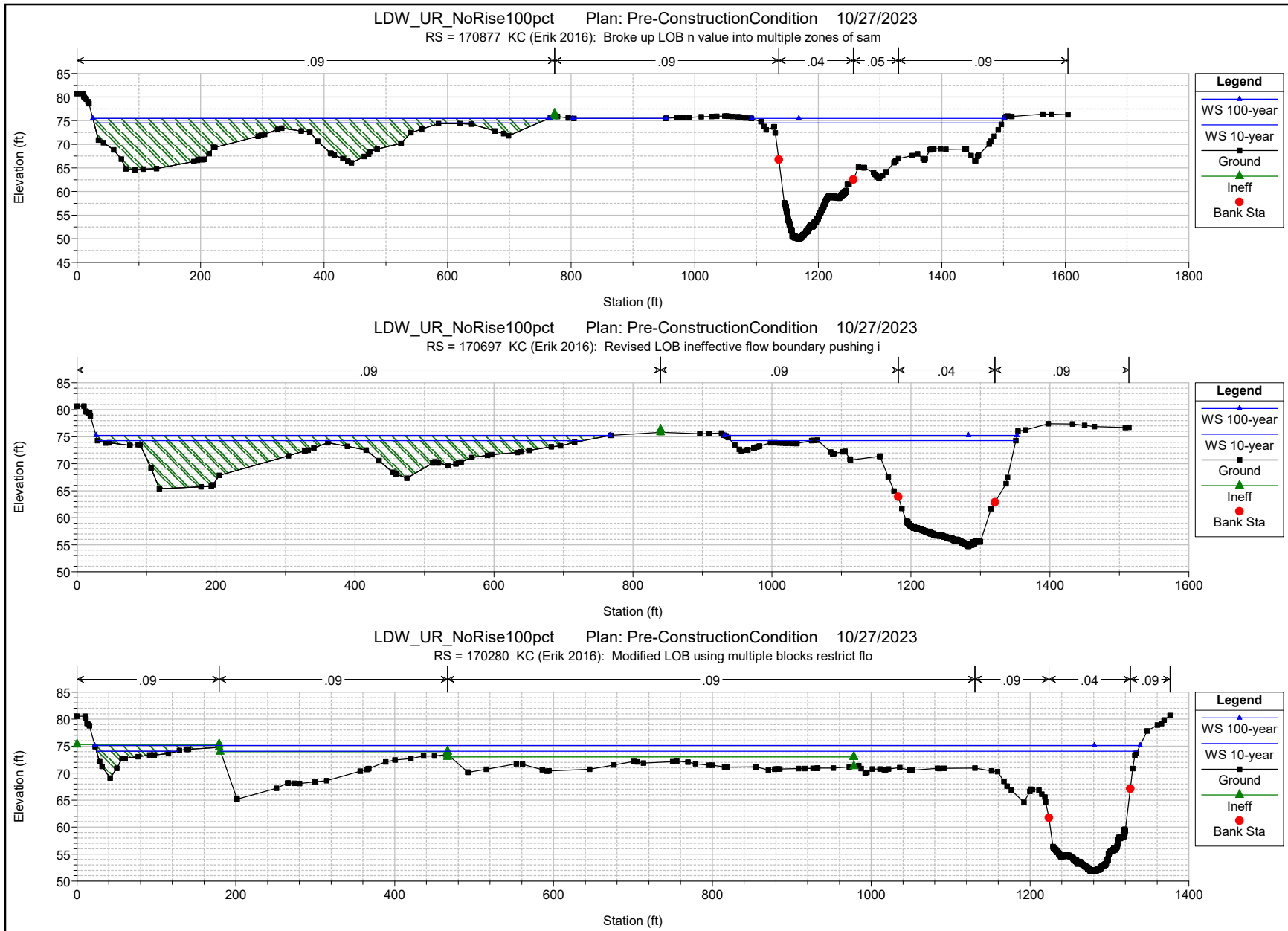


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 175660 BR Old Highway 18 Bridge

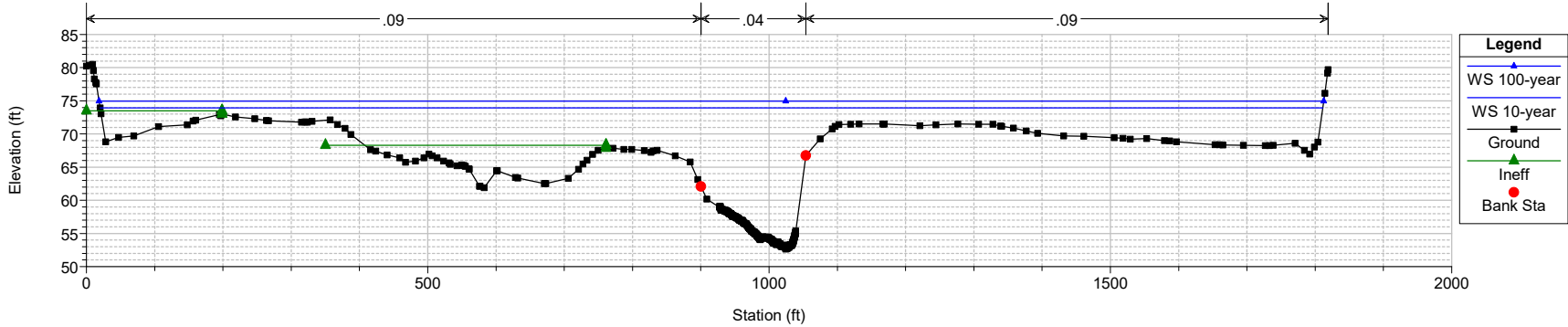




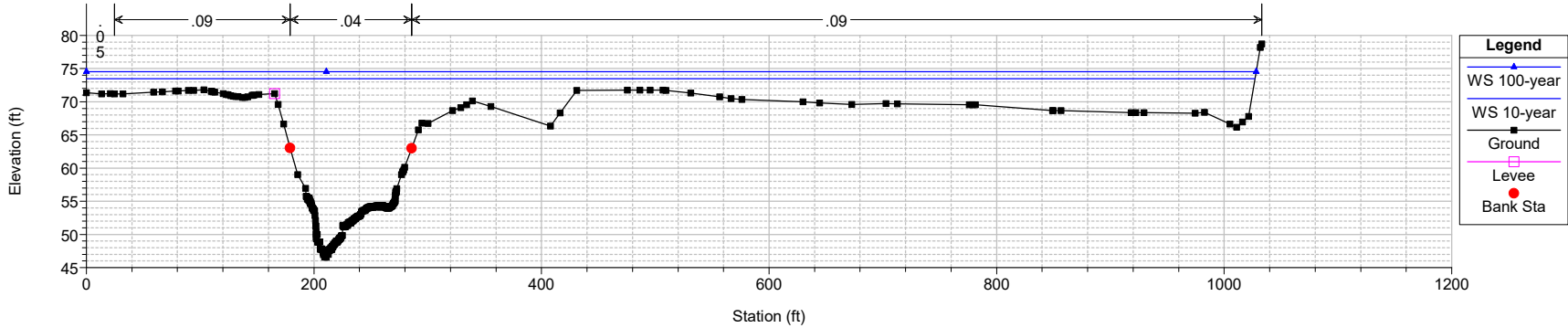




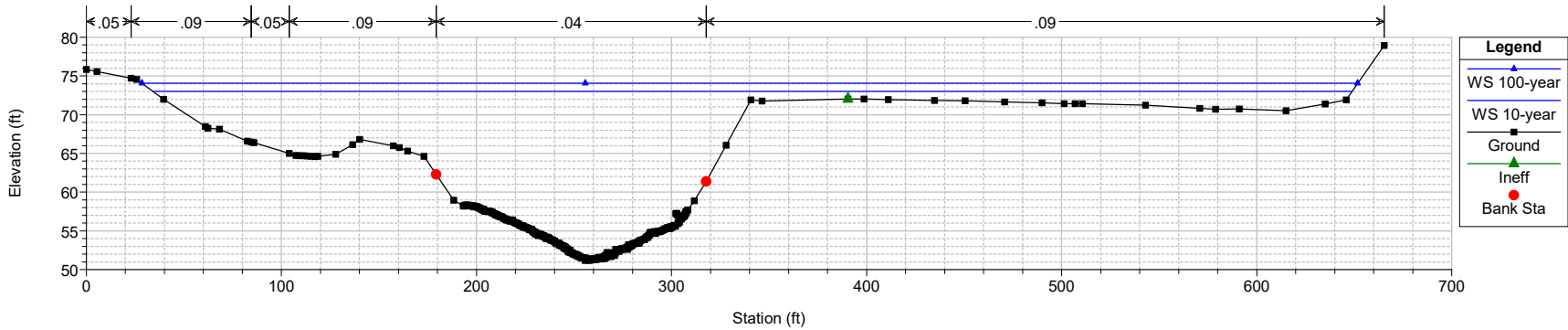
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 169351 KC (Erik 2016): Added LOB ineffective area using multiple block



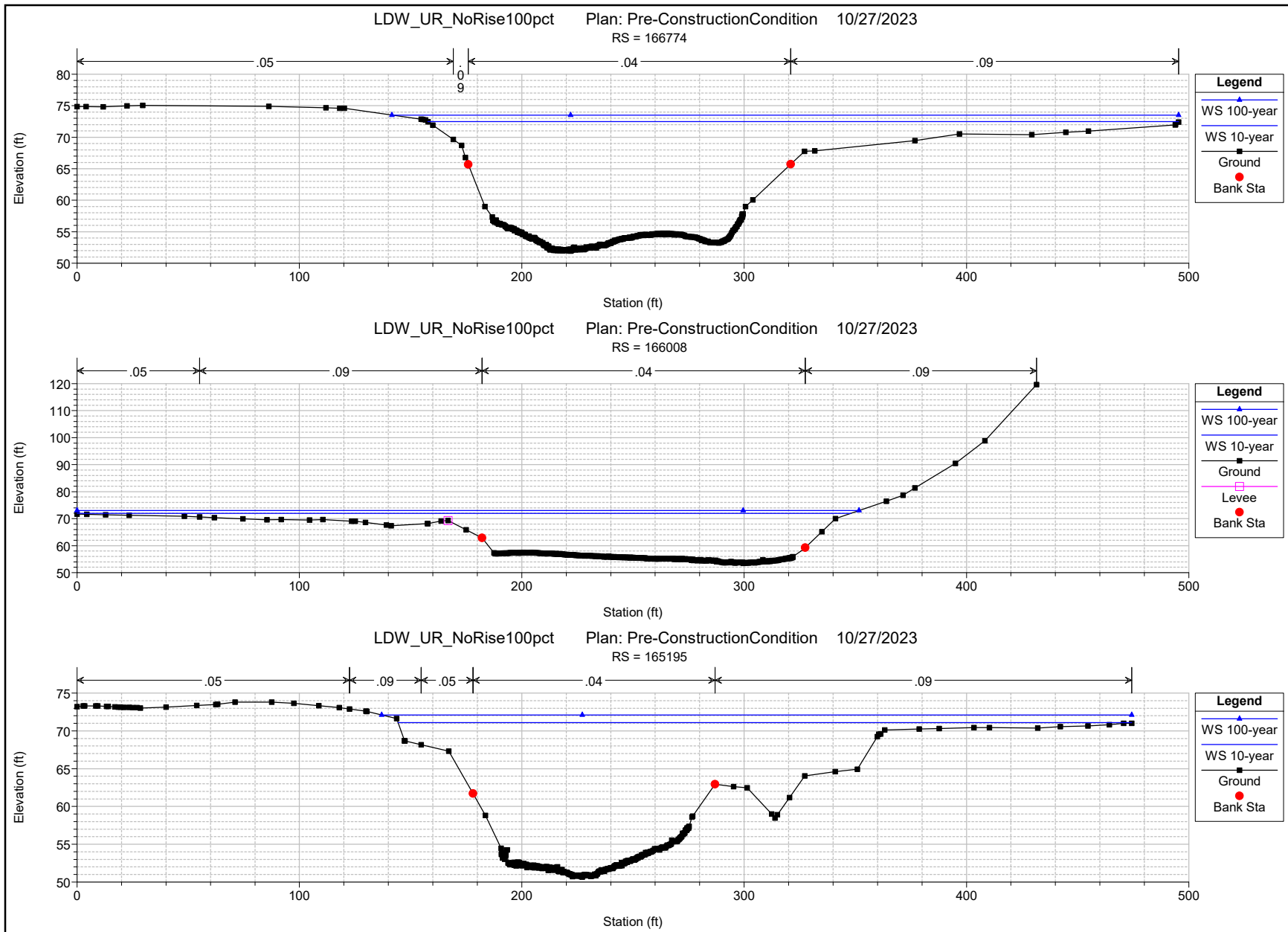
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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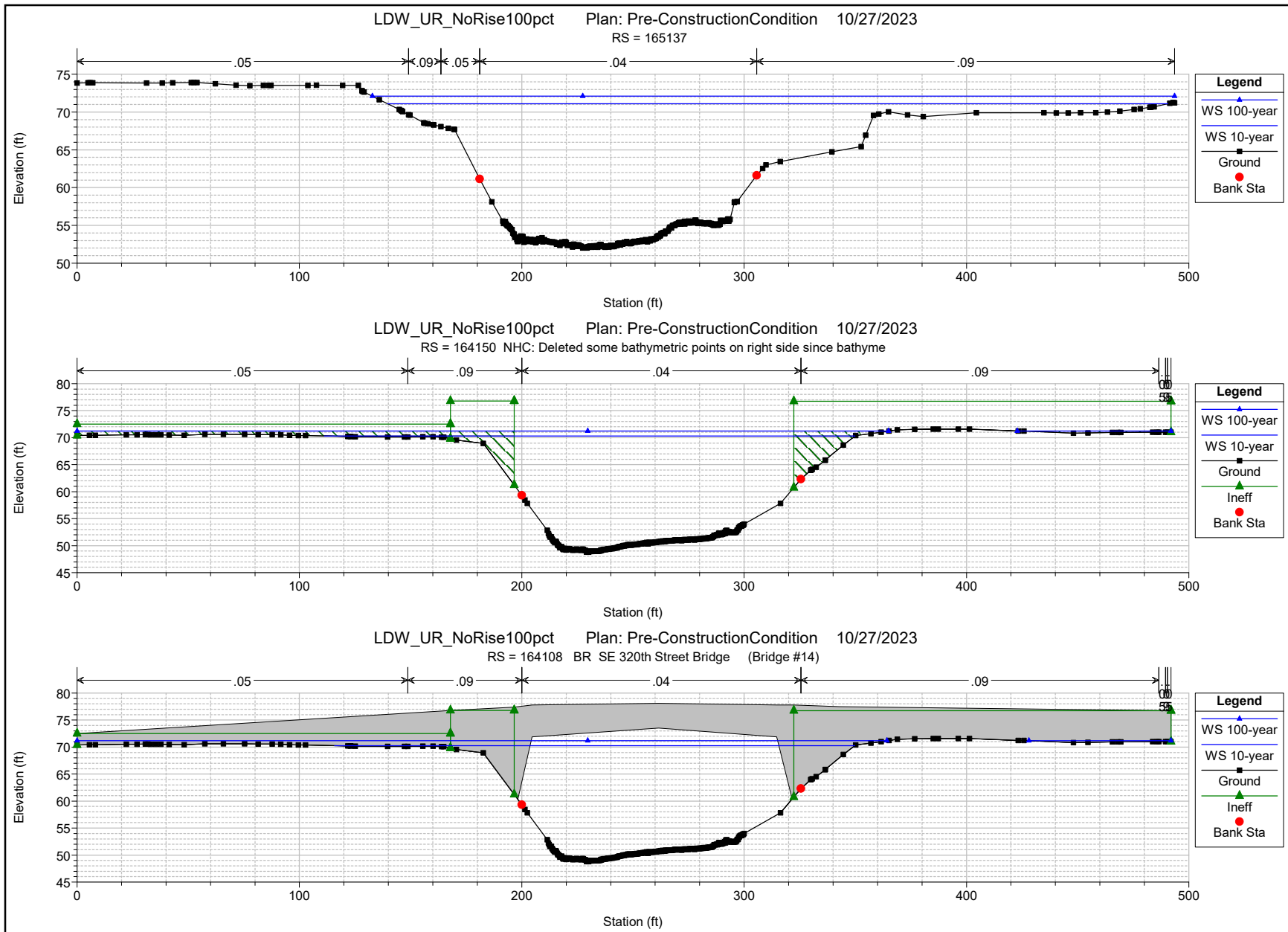


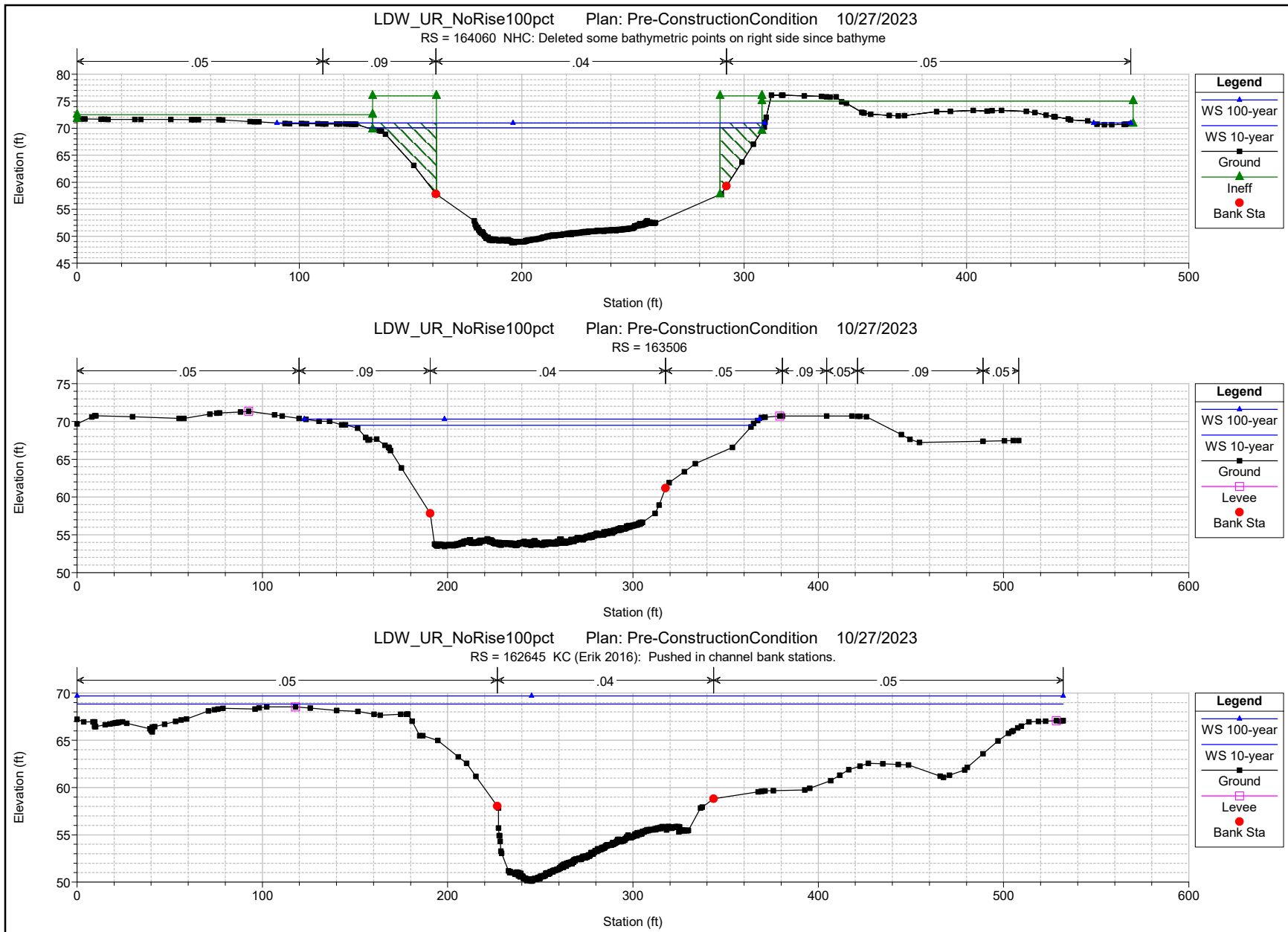
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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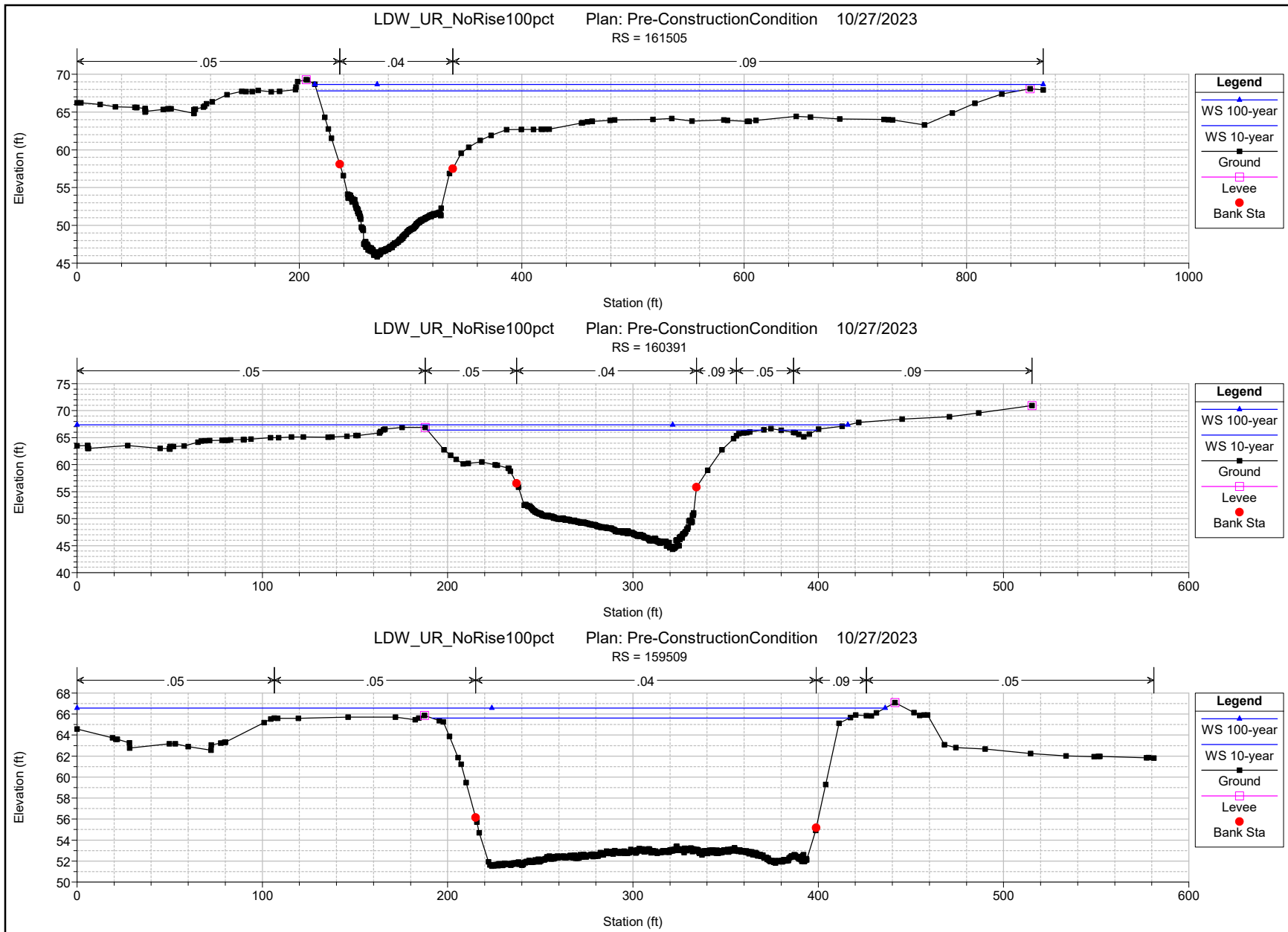


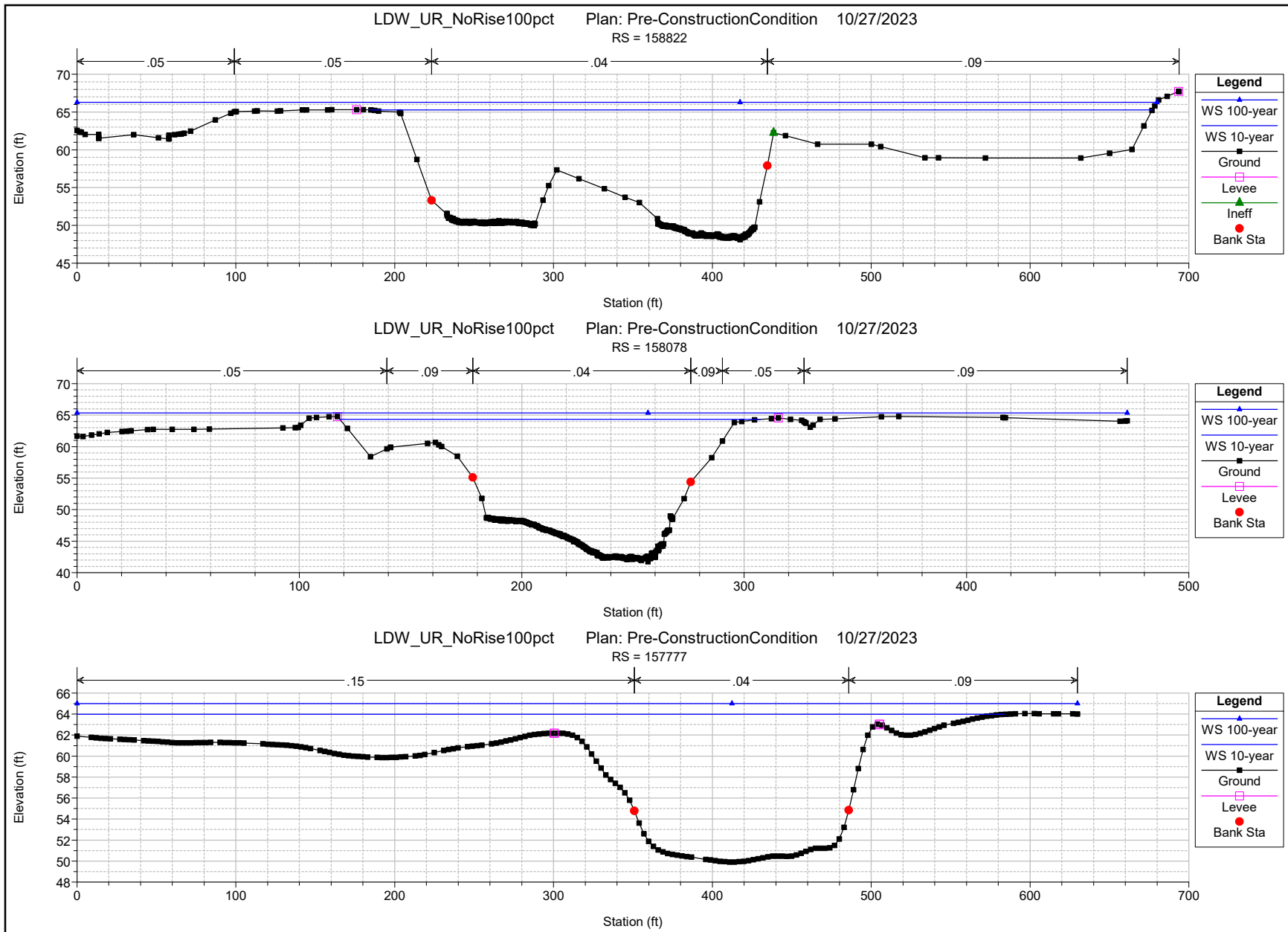


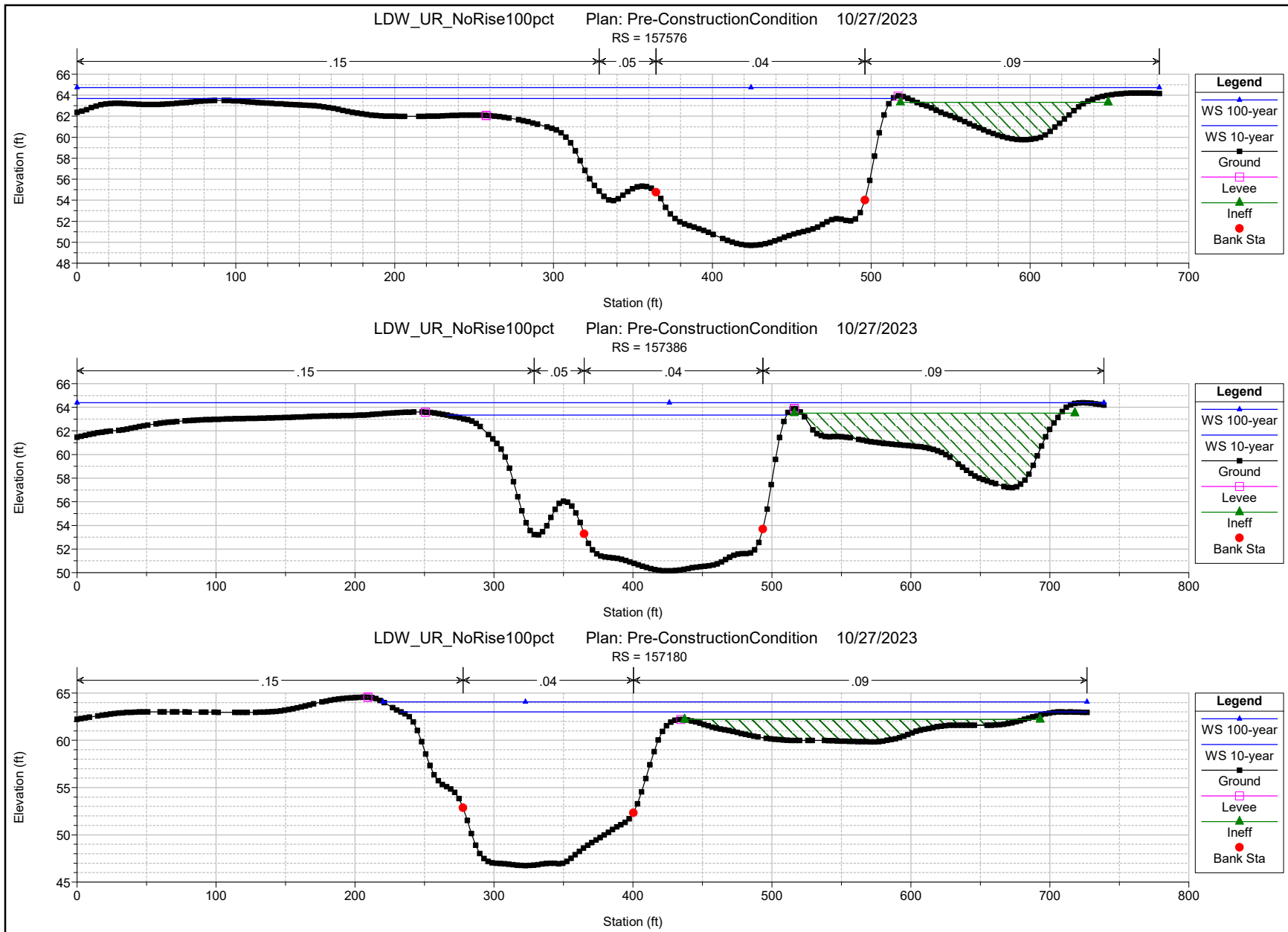


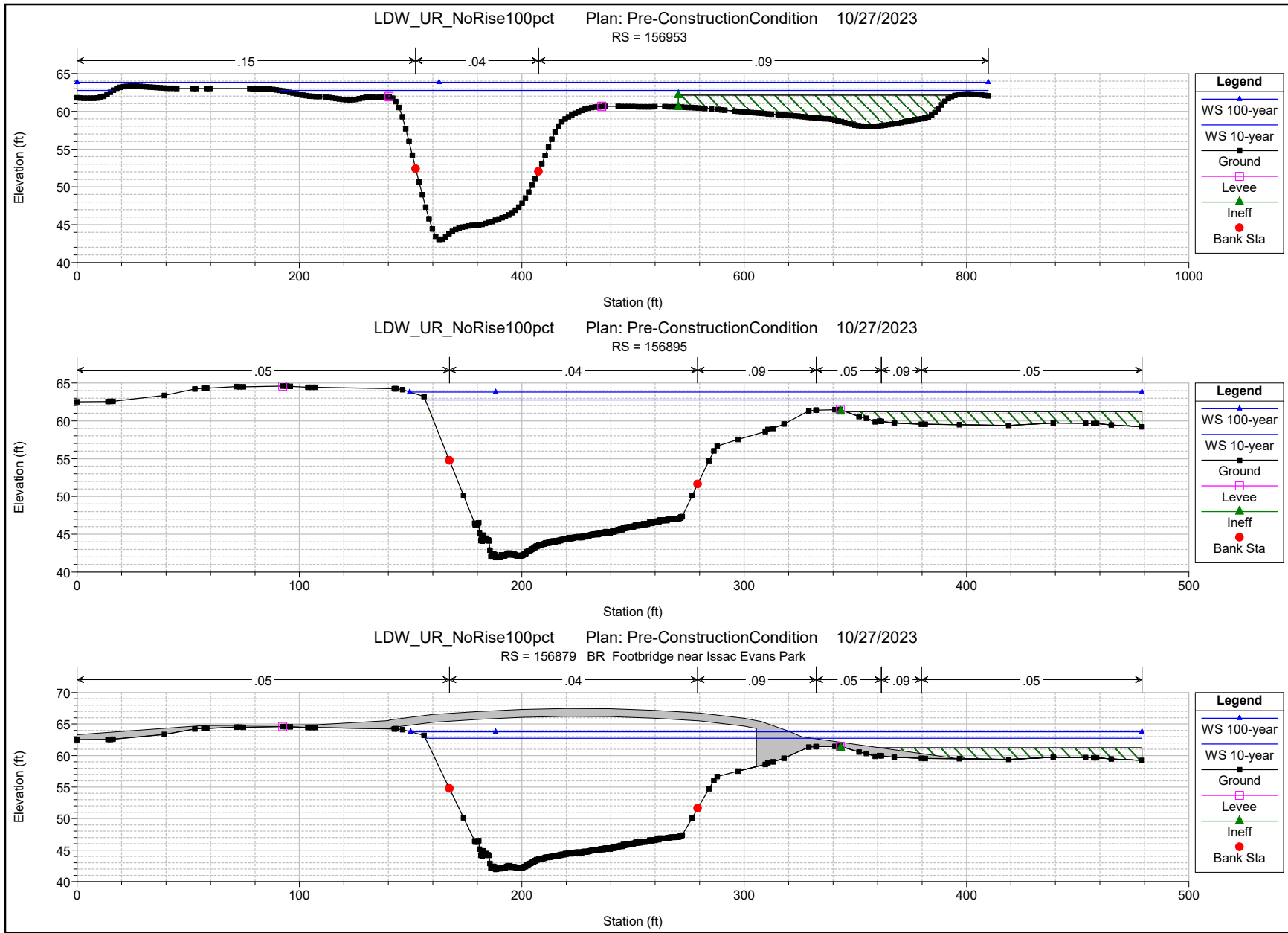


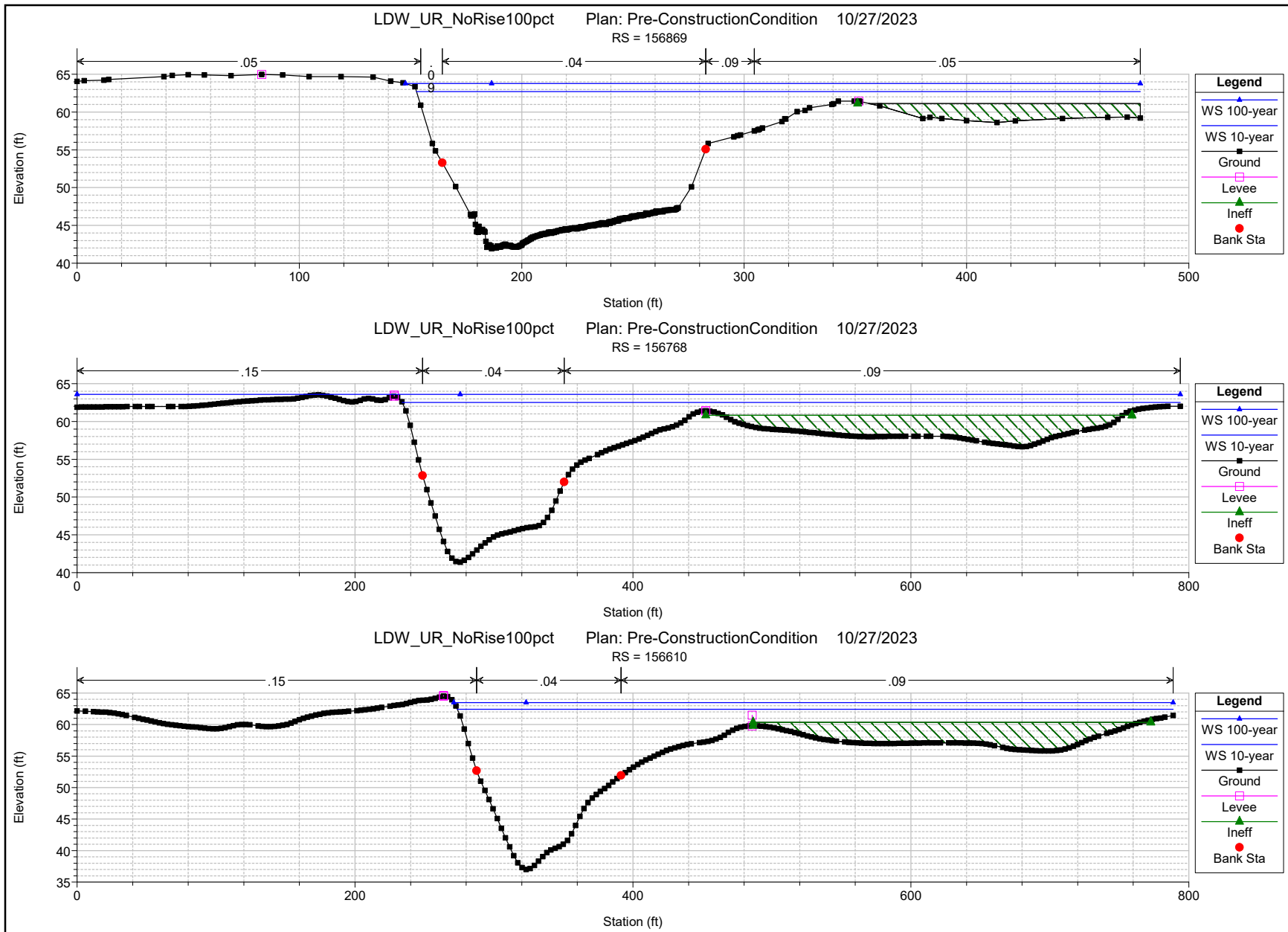




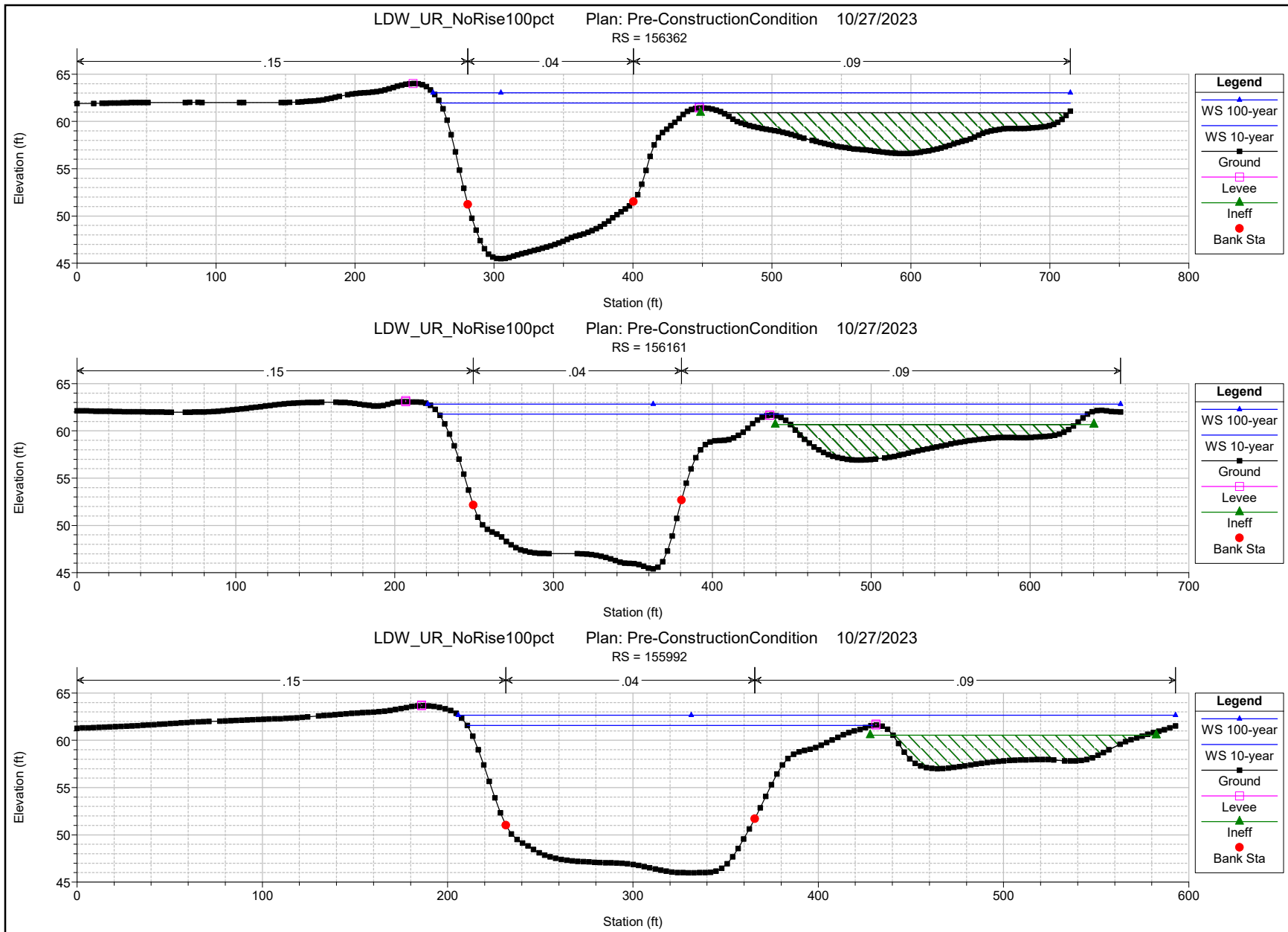


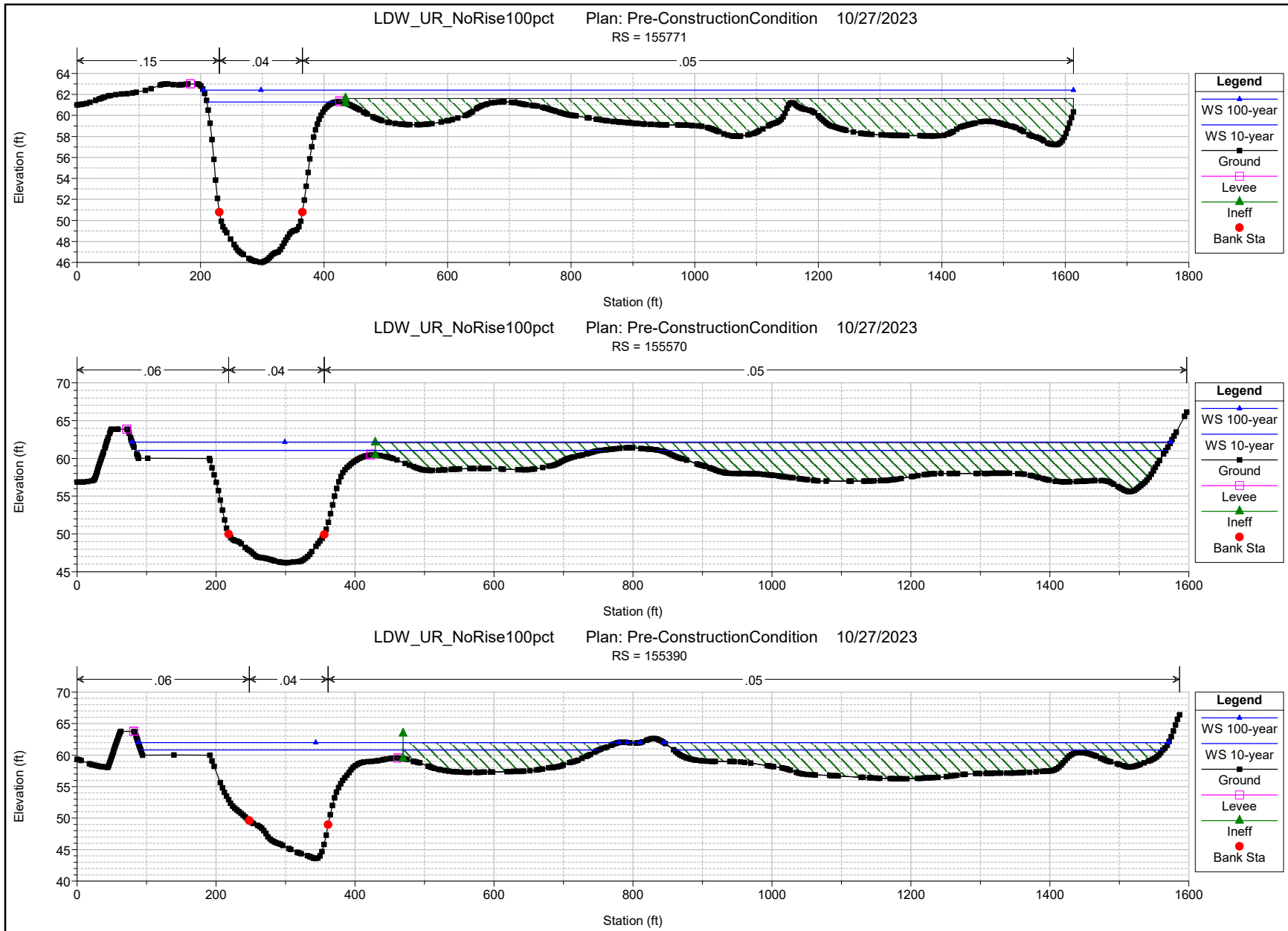




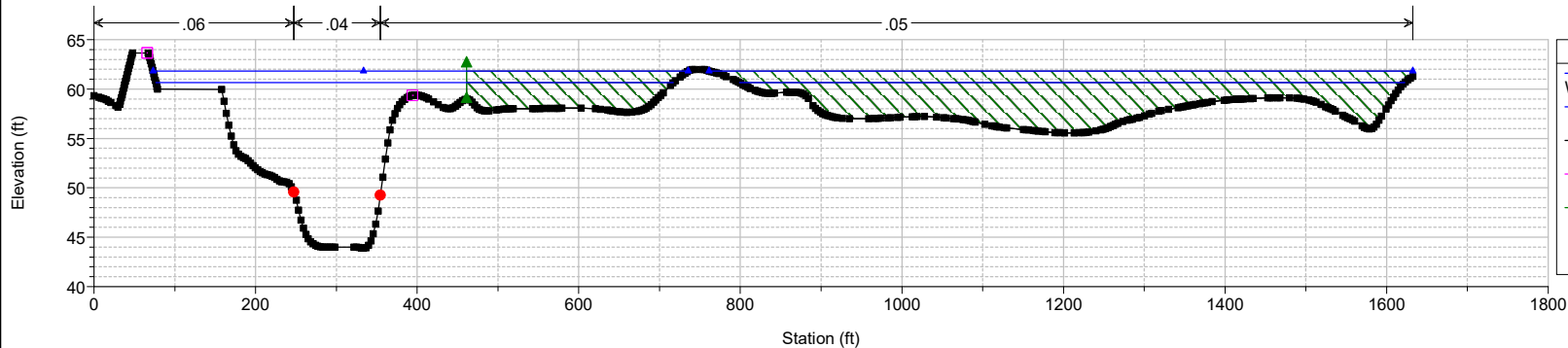




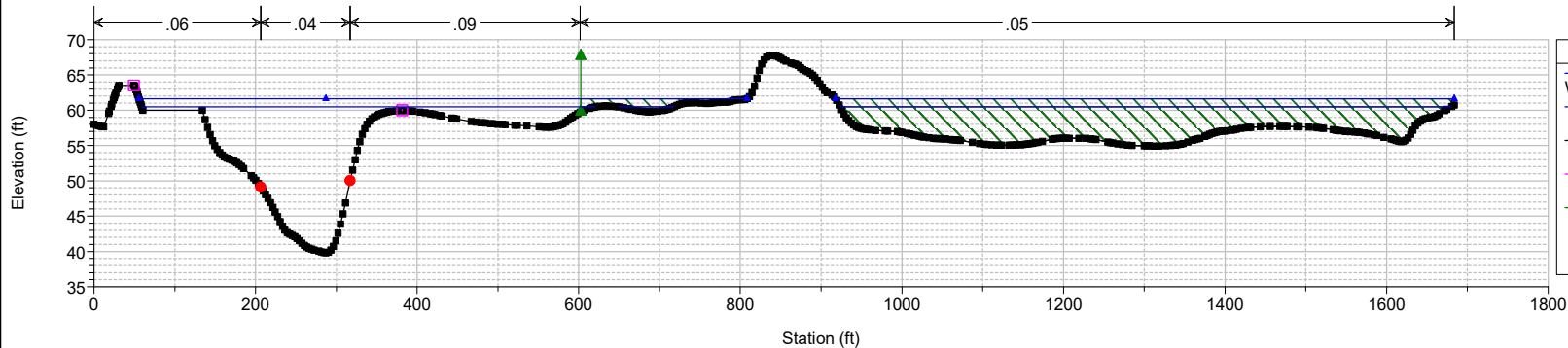




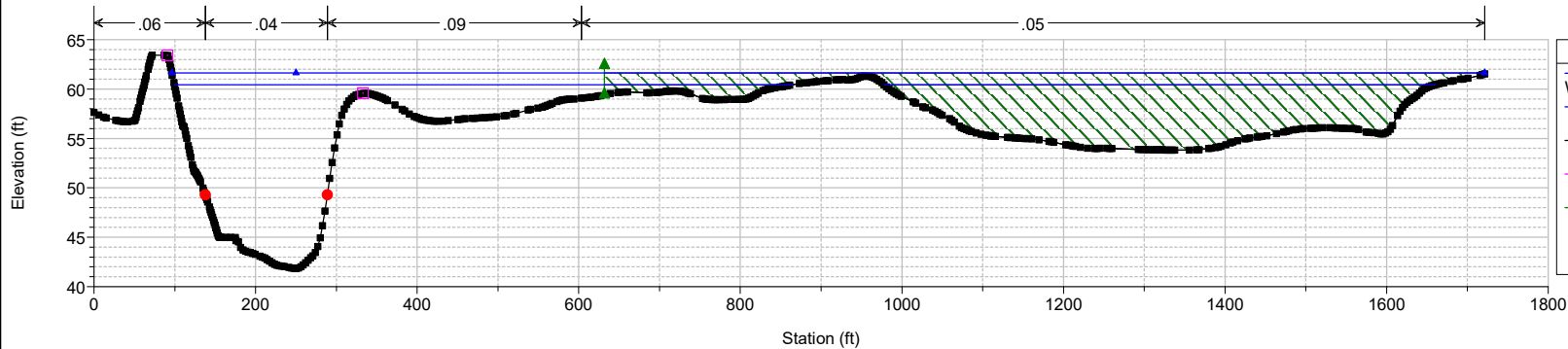
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RS = 155184



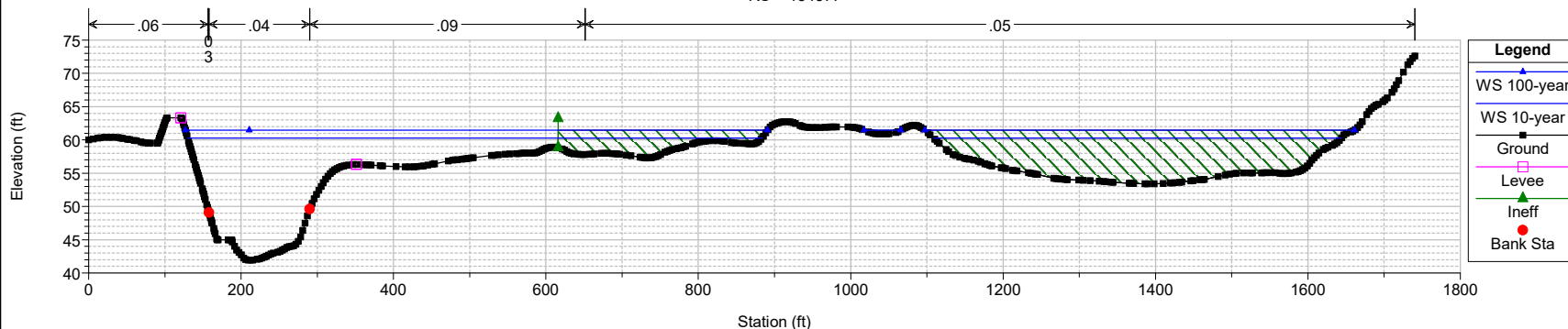
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 154947



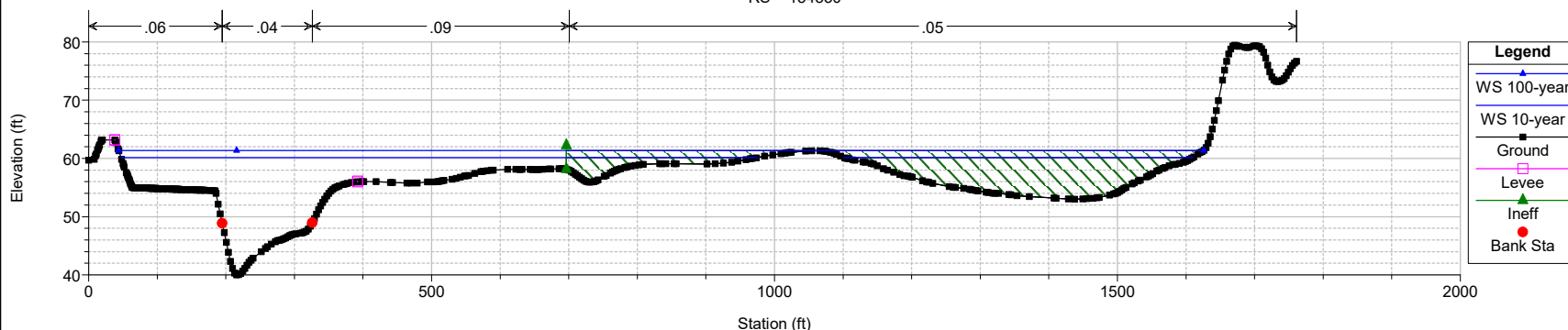
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RS = 154746



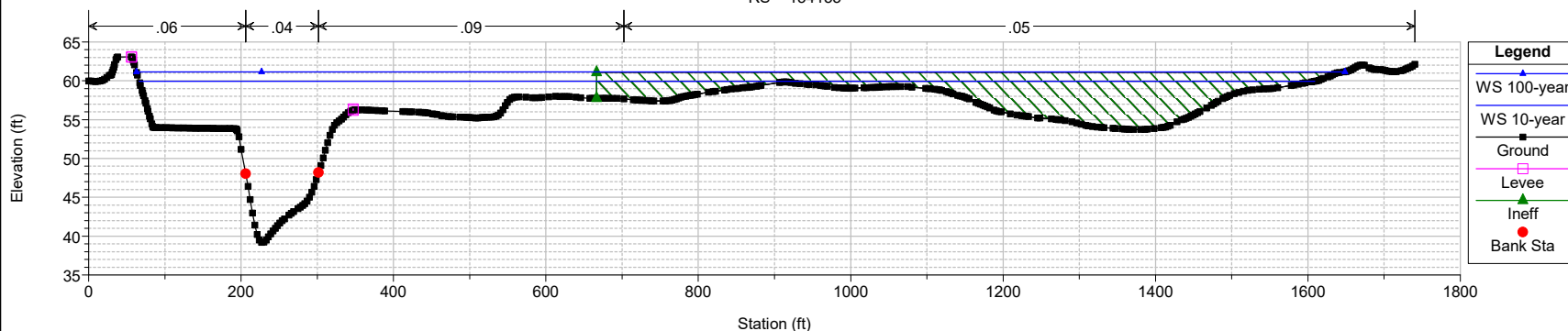
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 154577



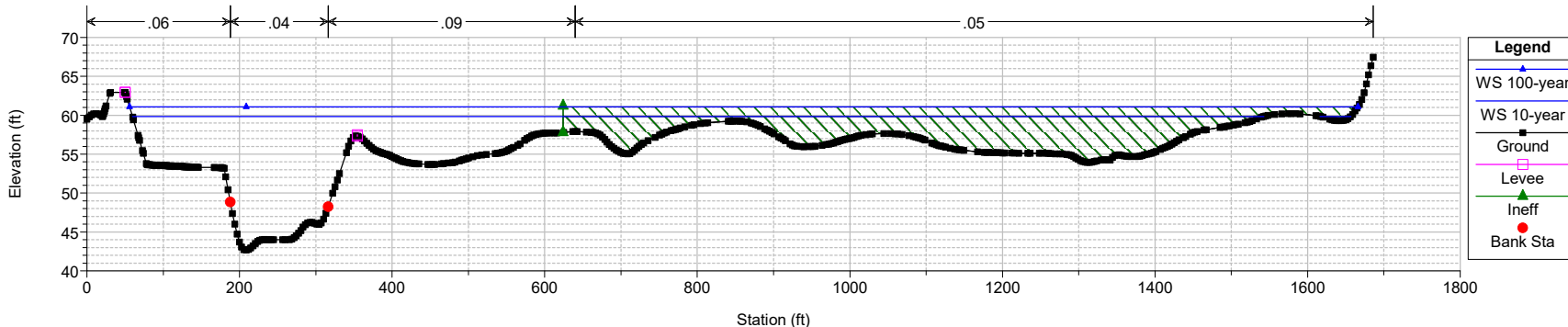
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 154350



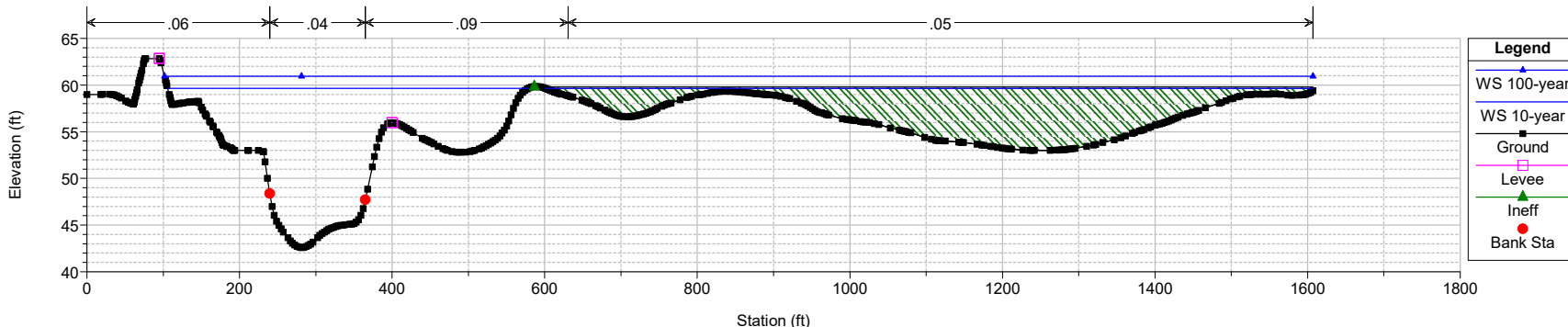
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 154155



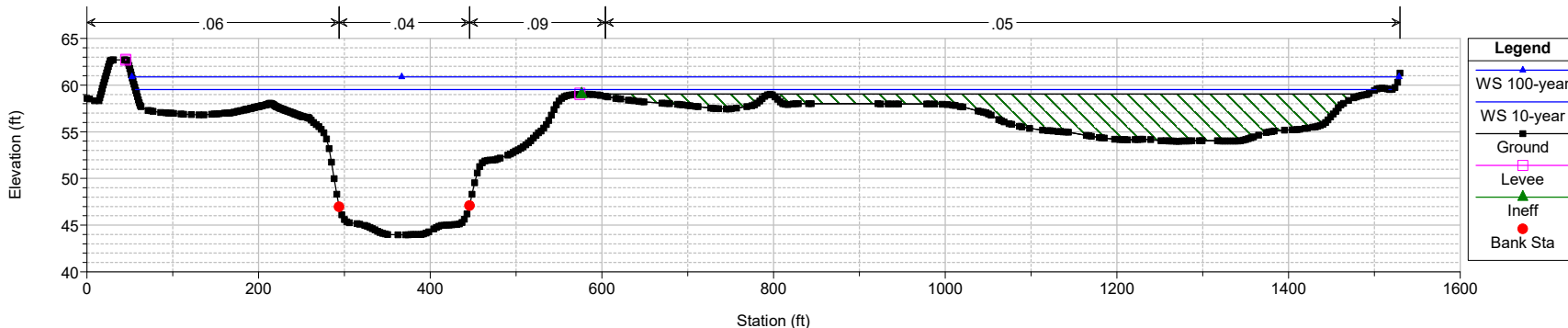
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 153954



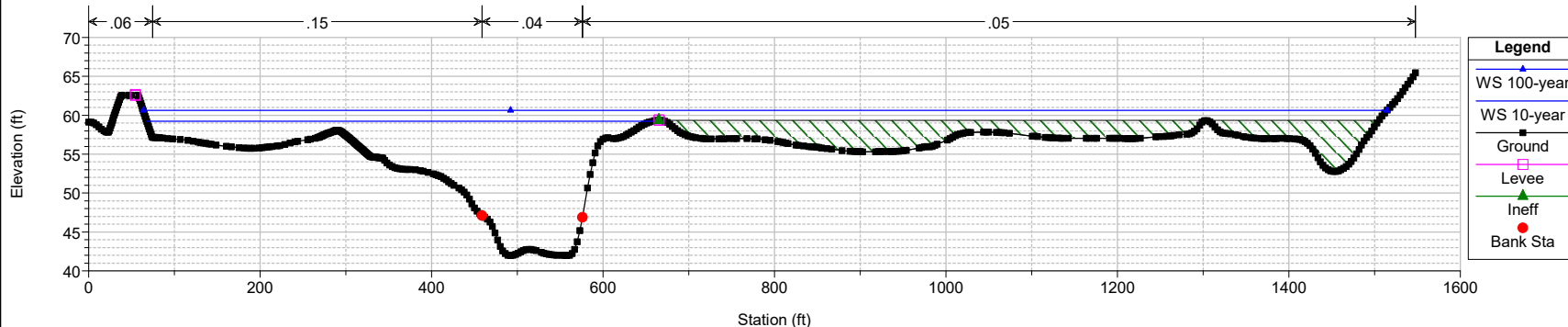
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 153743



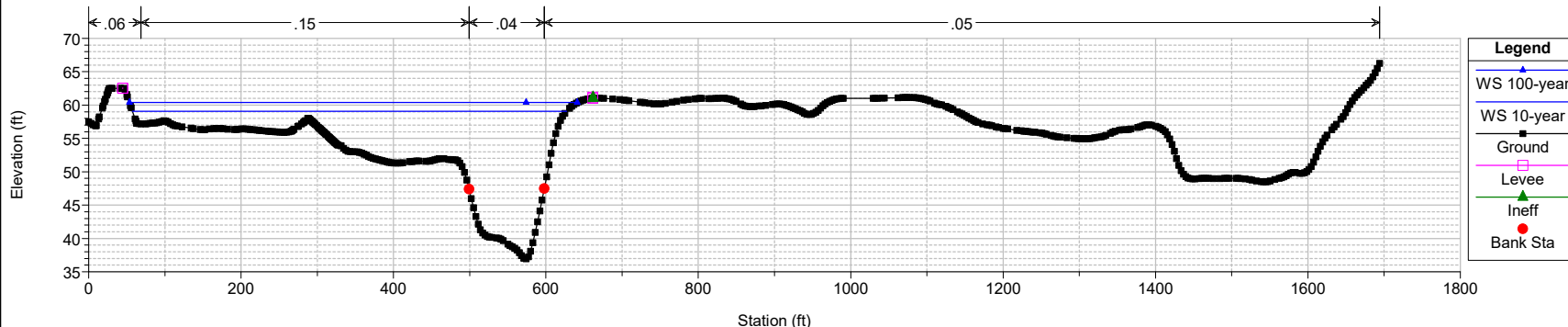
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 153548



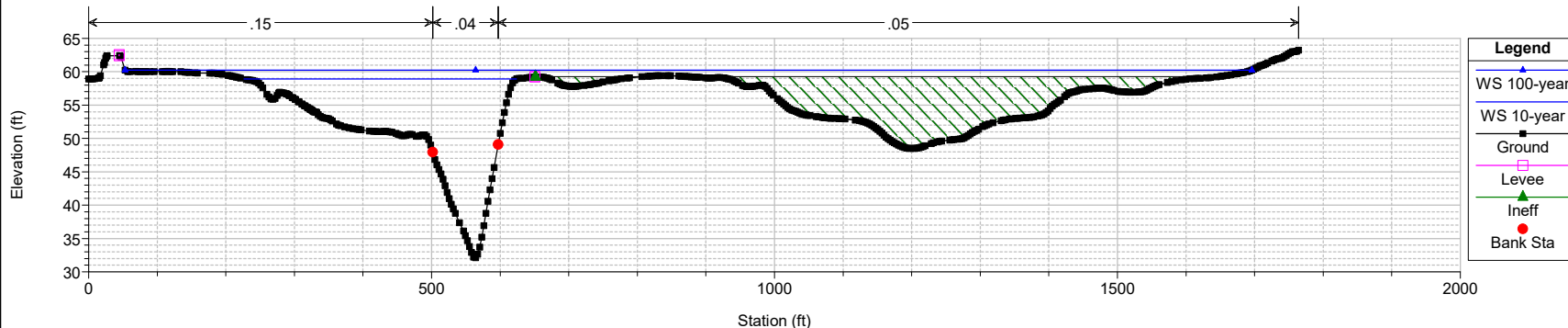
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RS = 153347



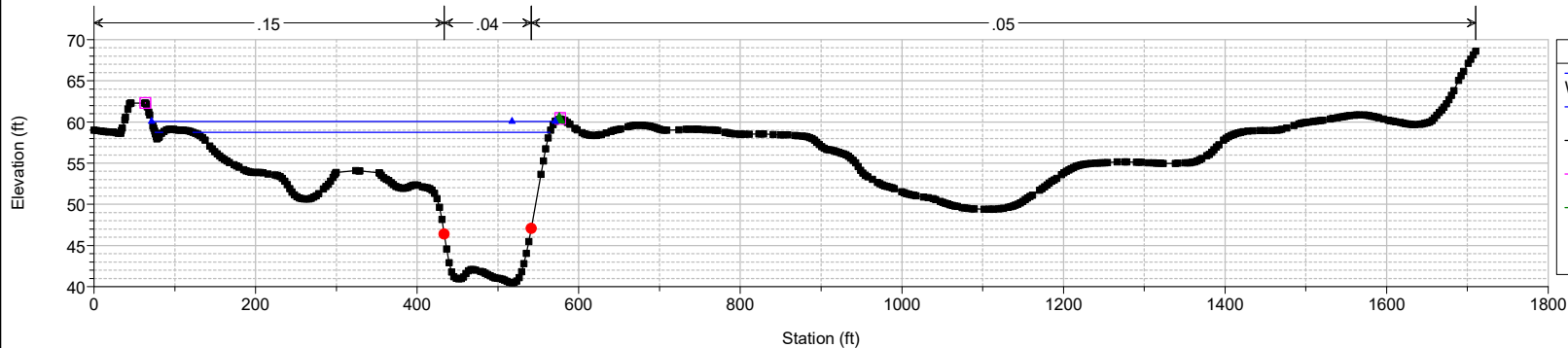
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 153136



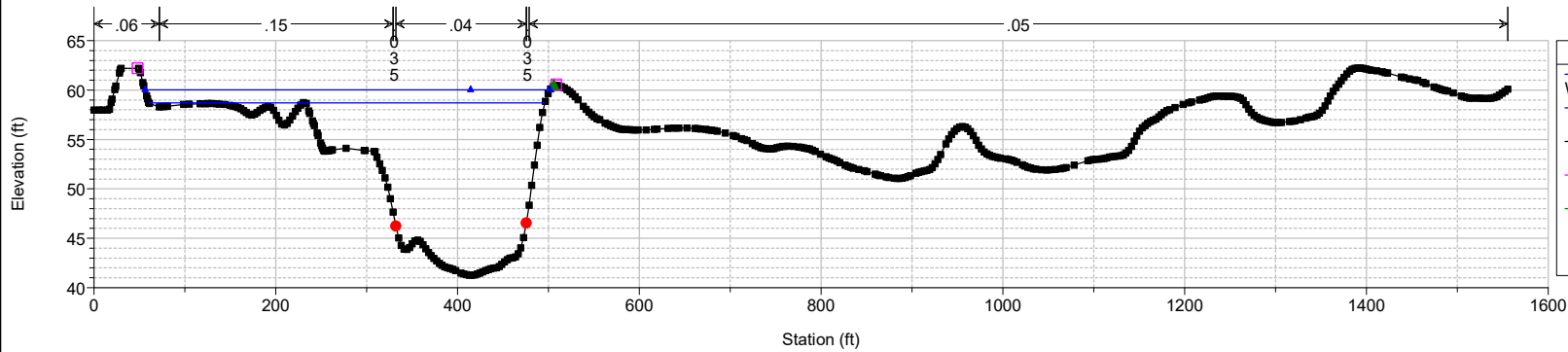
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 152972



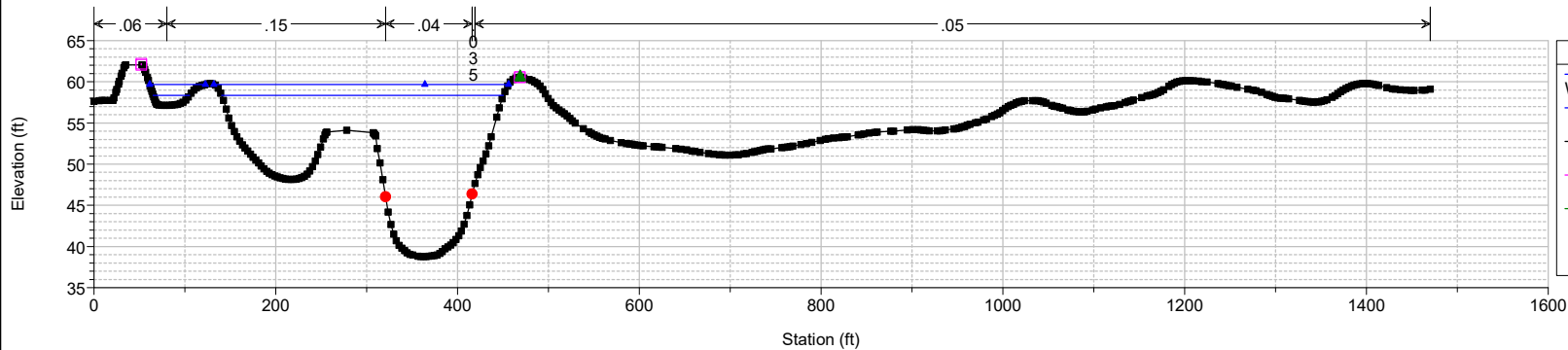
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RS = 152740

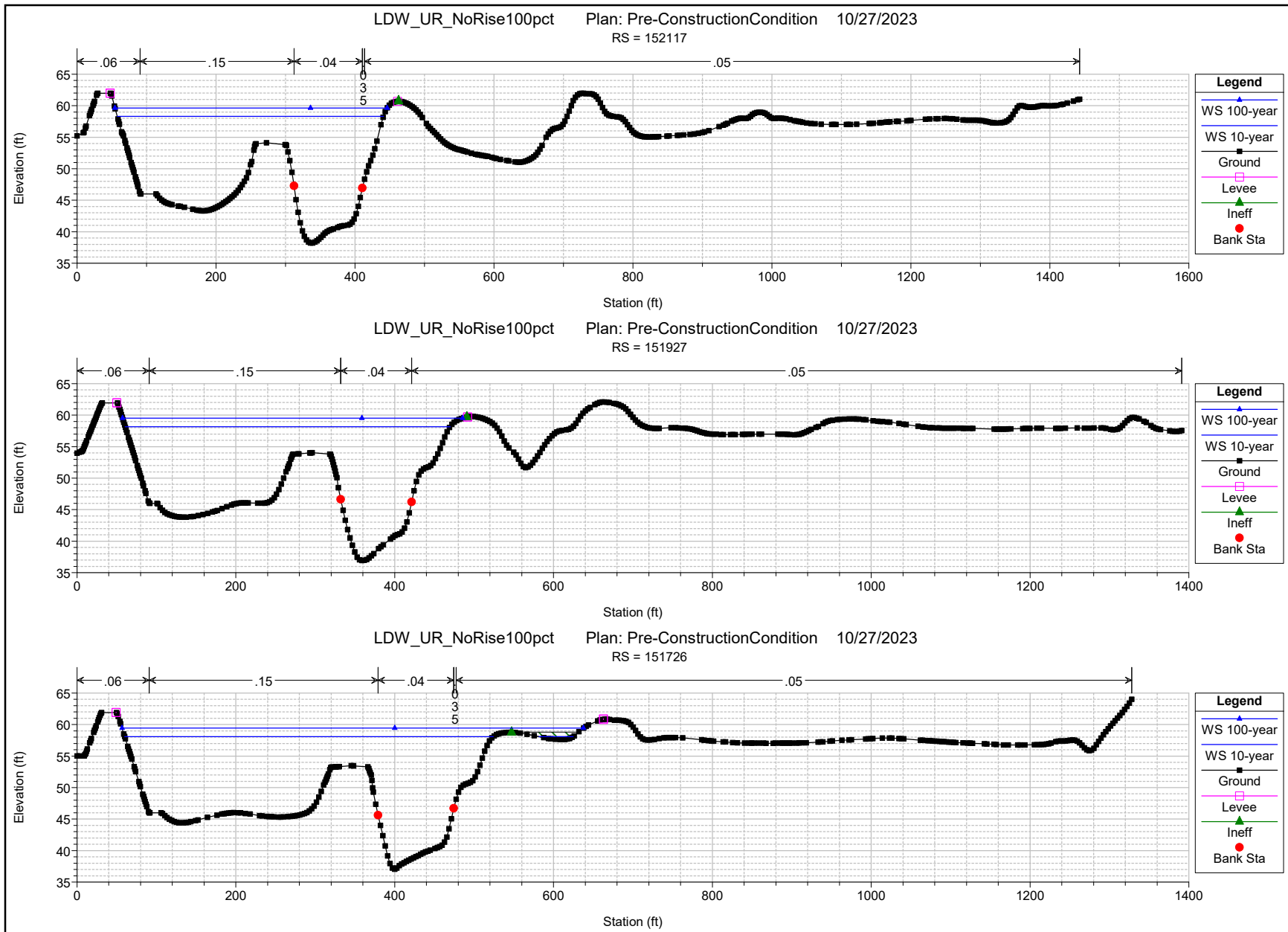


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 152587



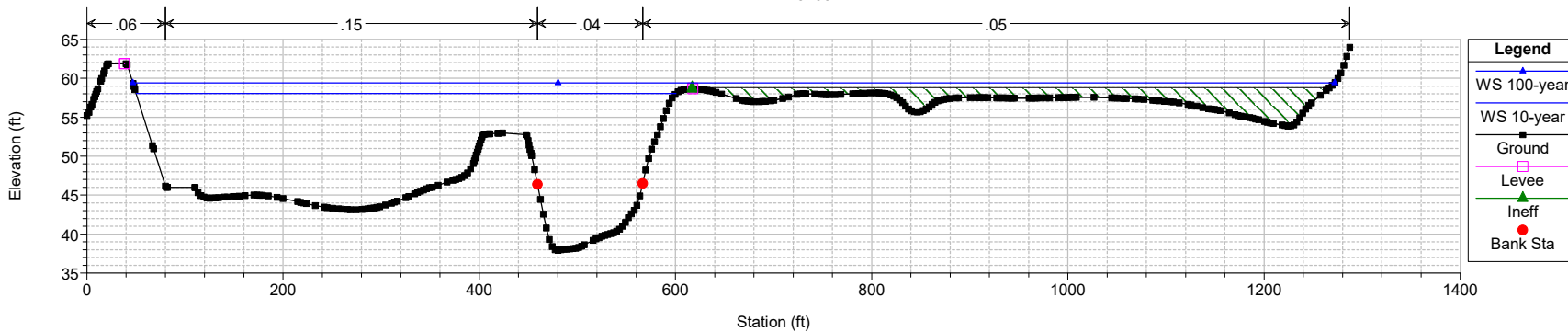
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RS = 152328



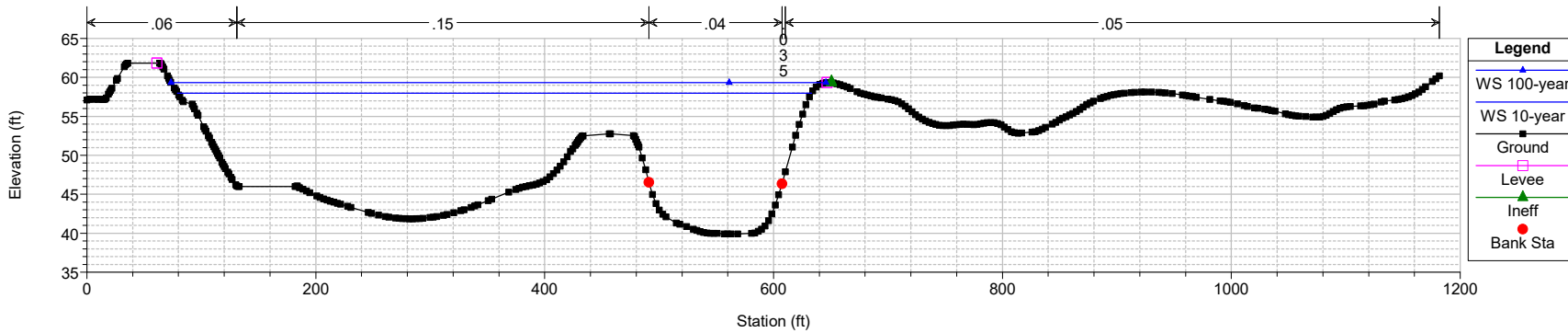




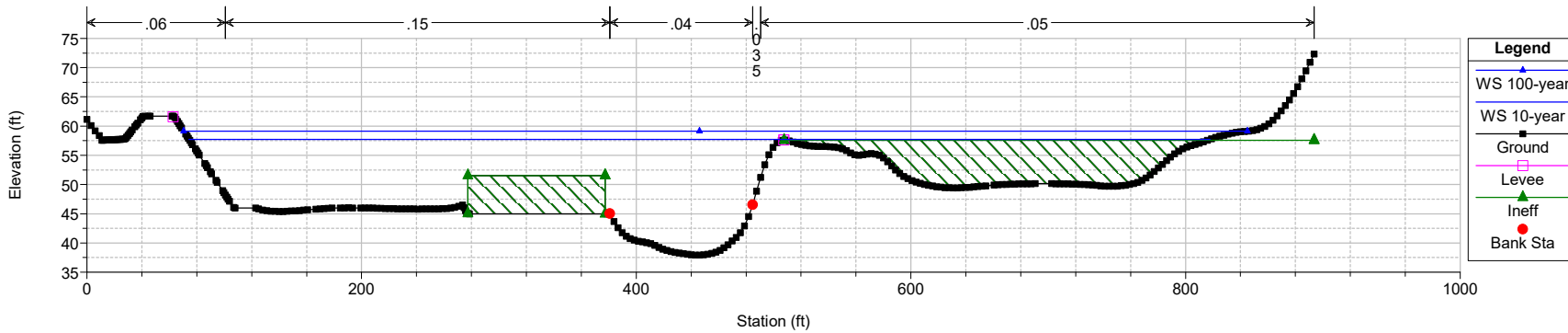
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RS = 151531

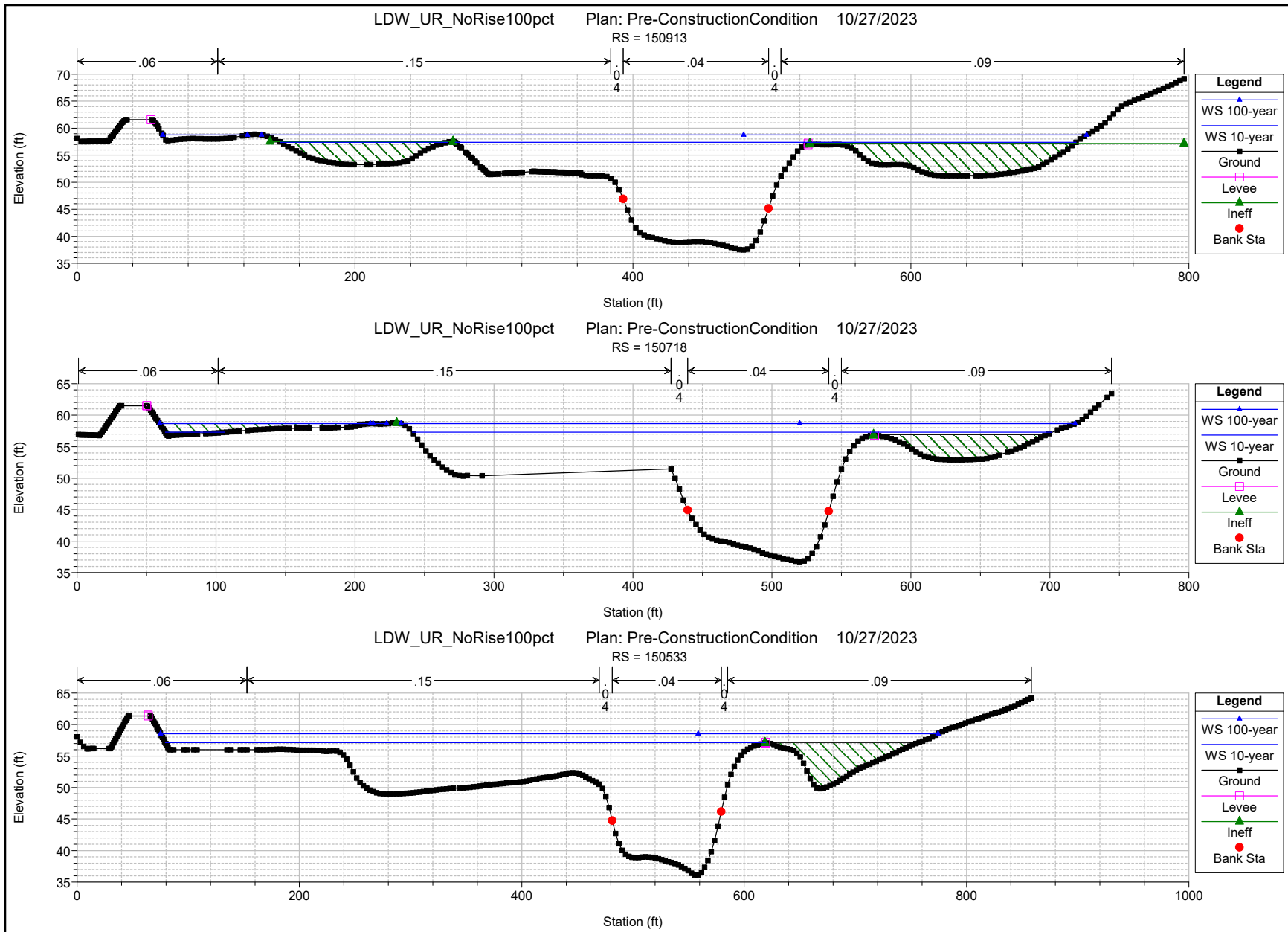


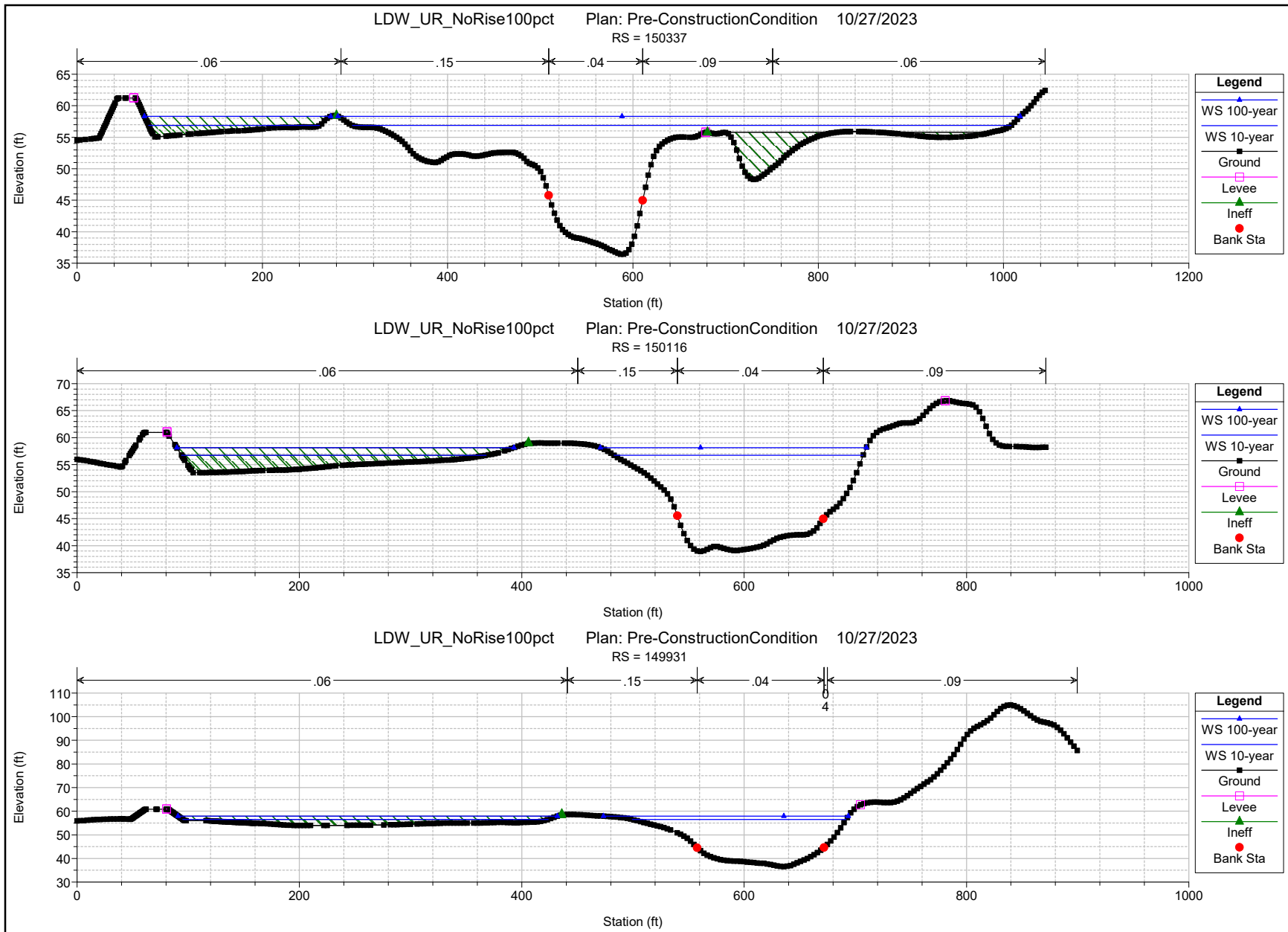
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 151351

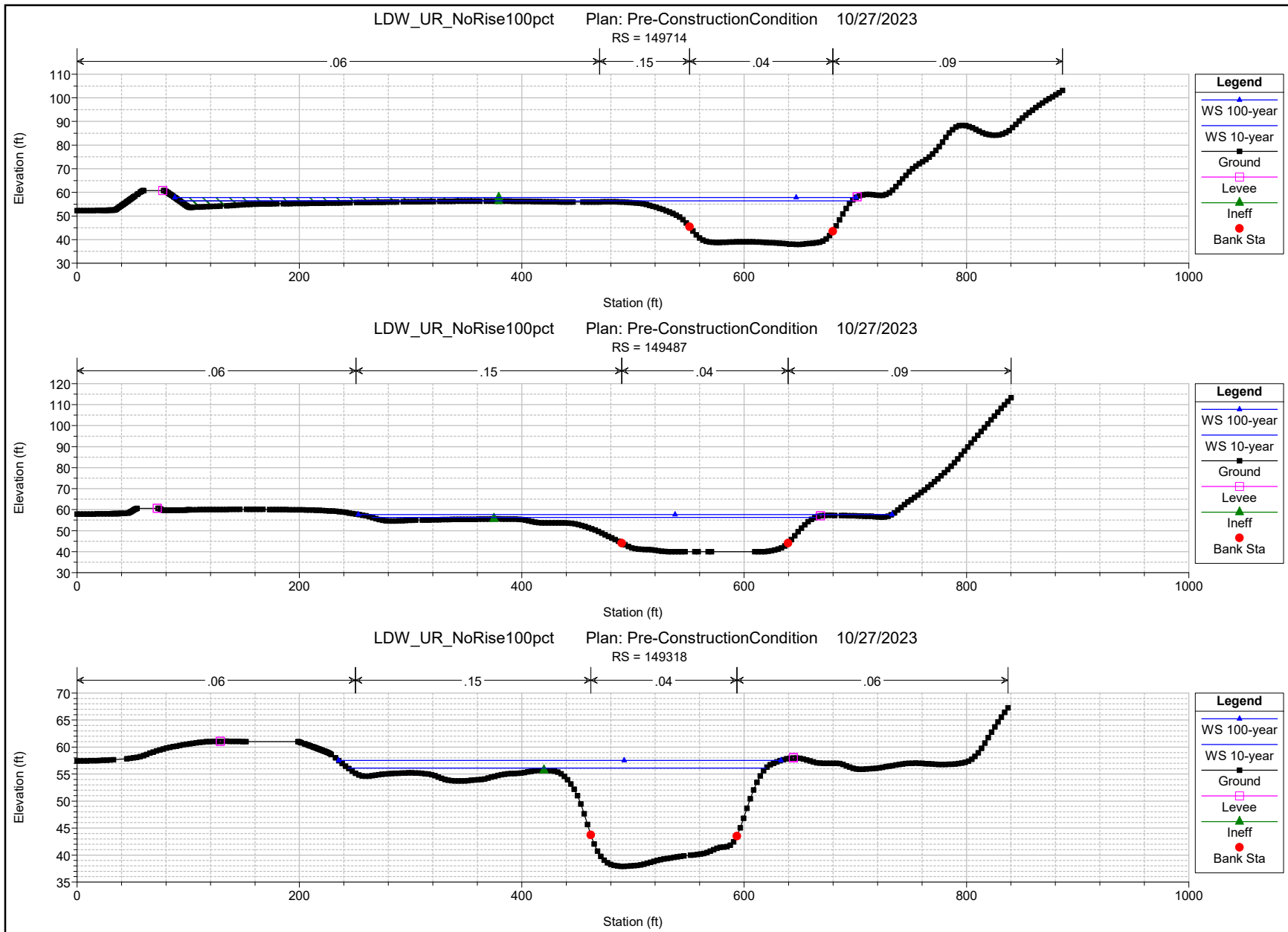


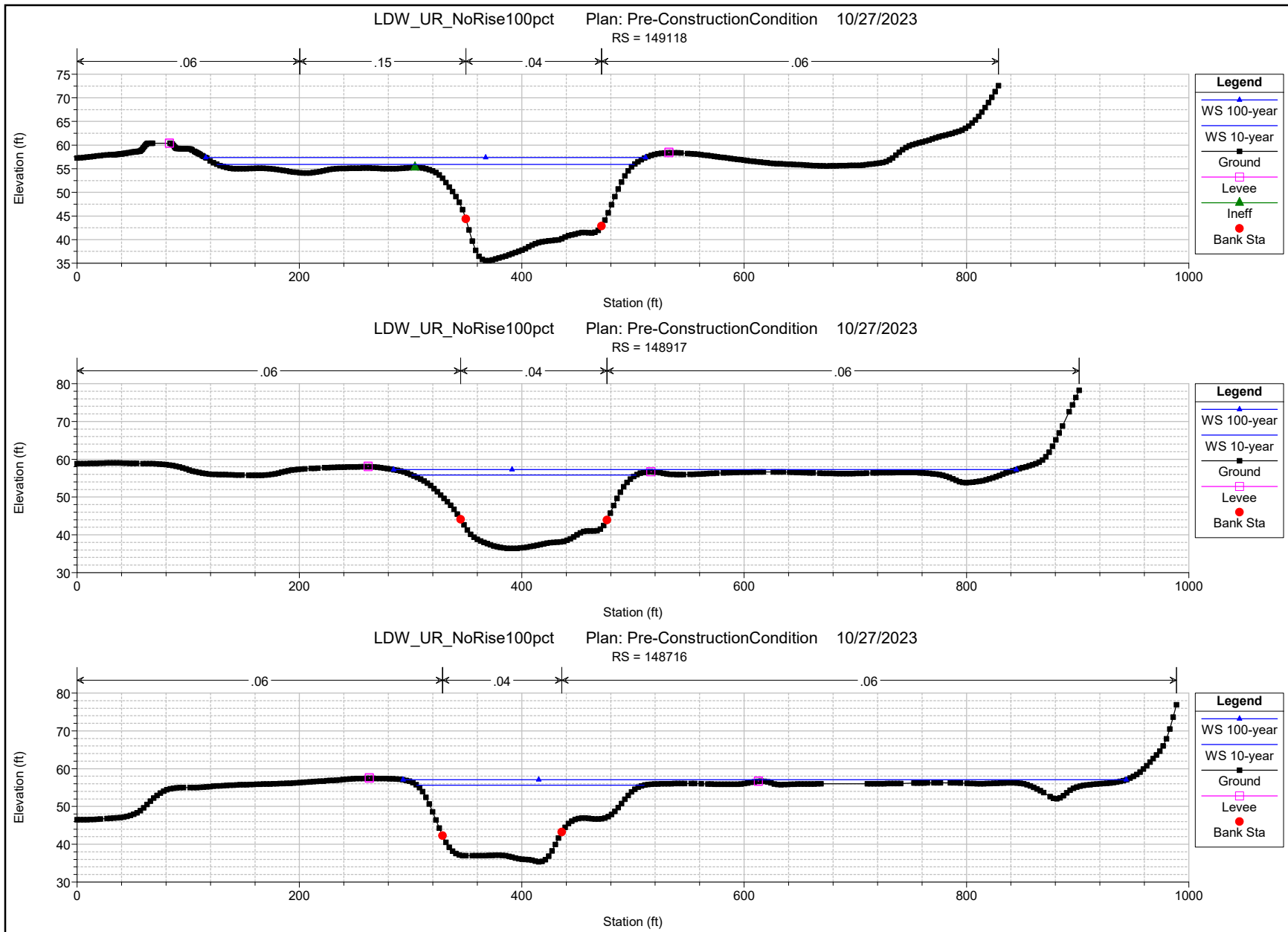
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RS = 151108

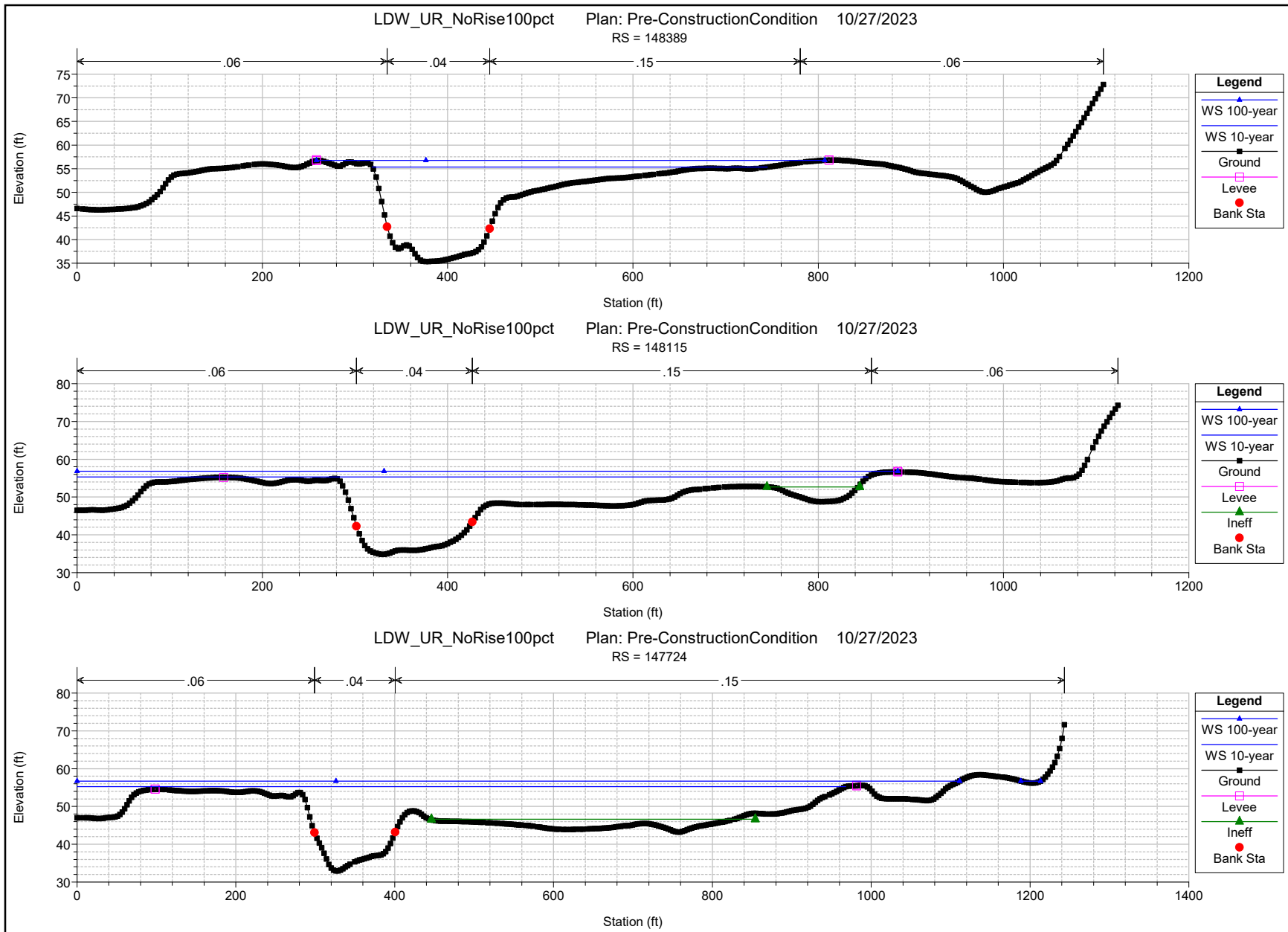


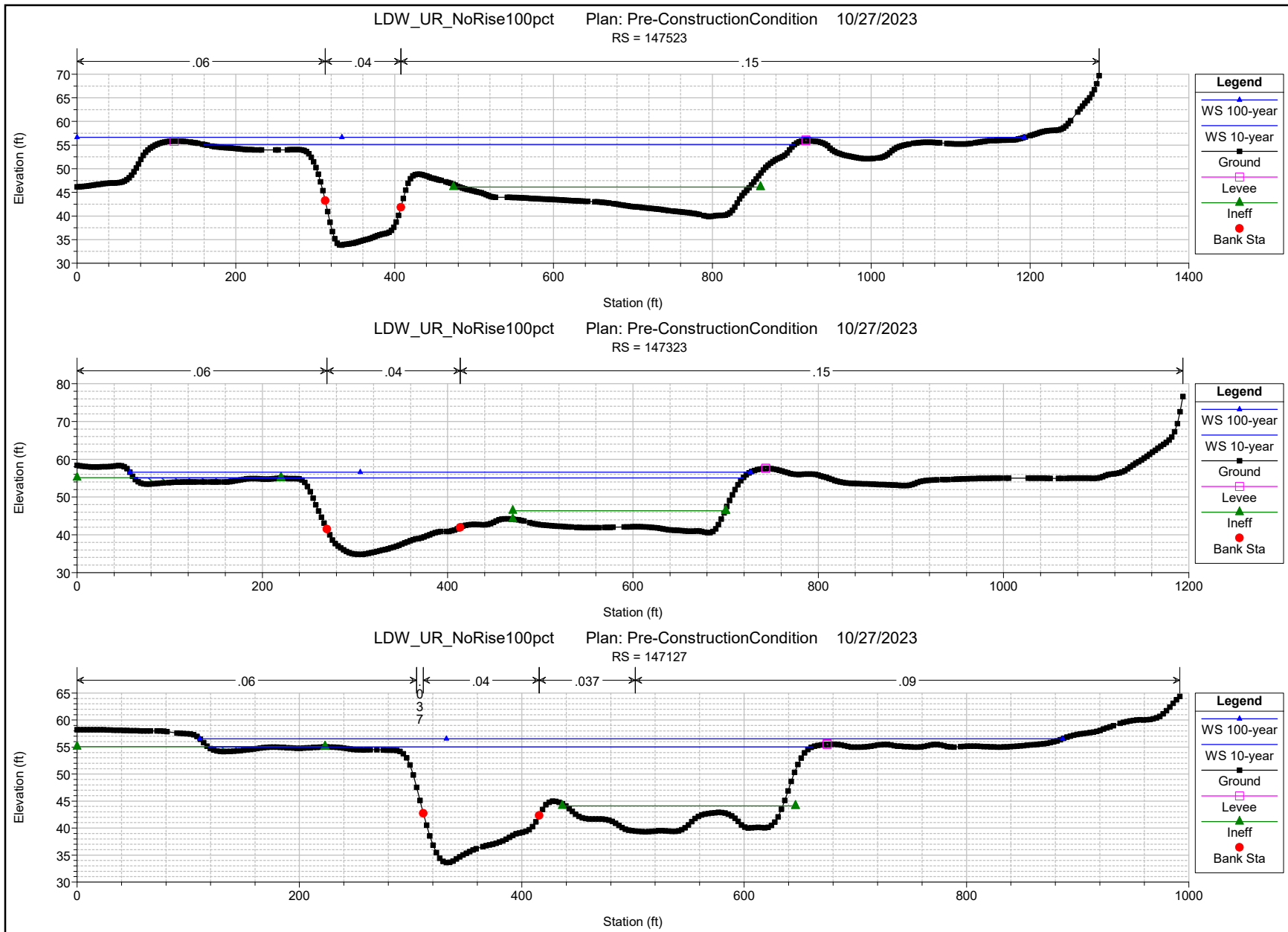


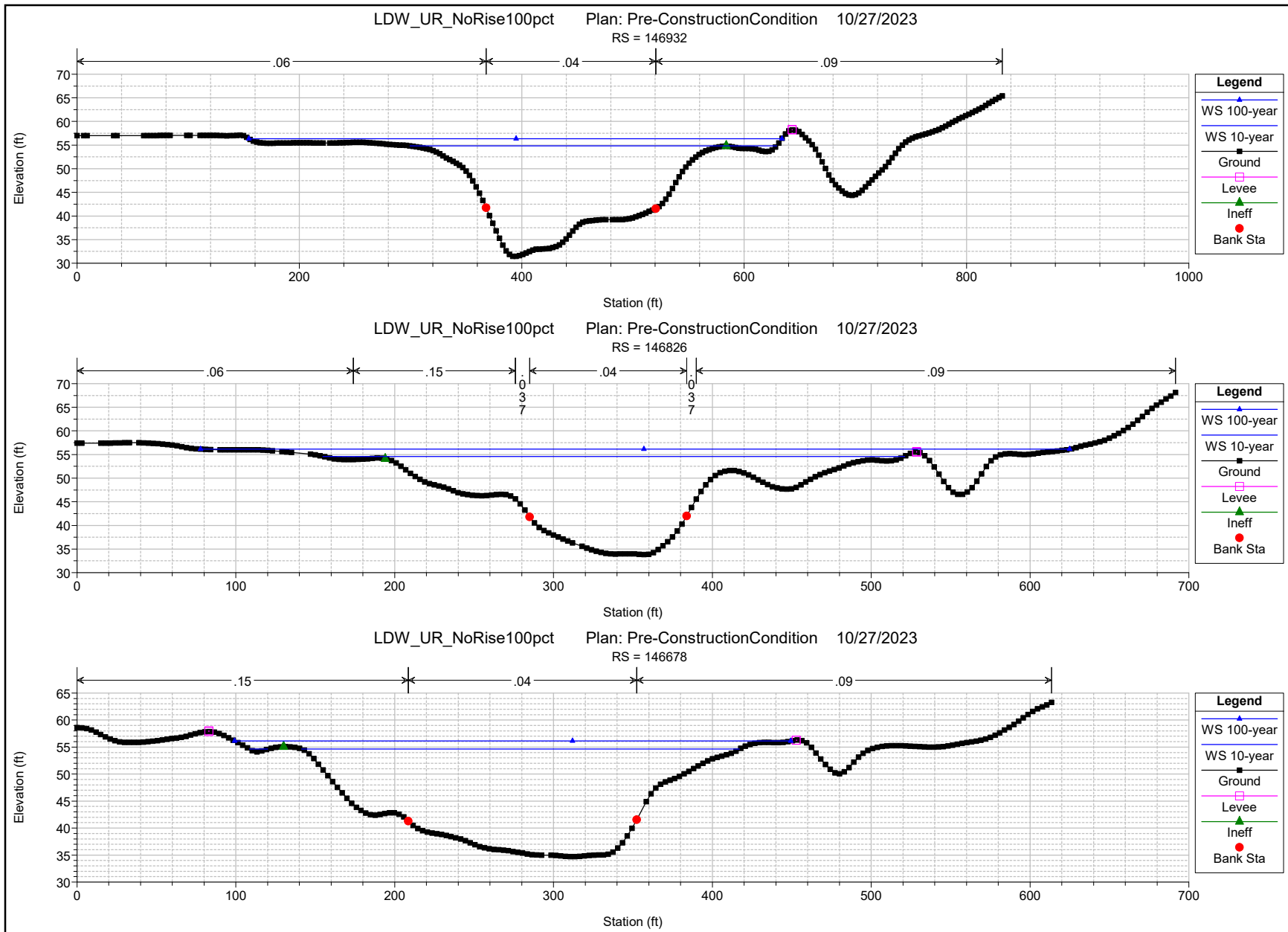




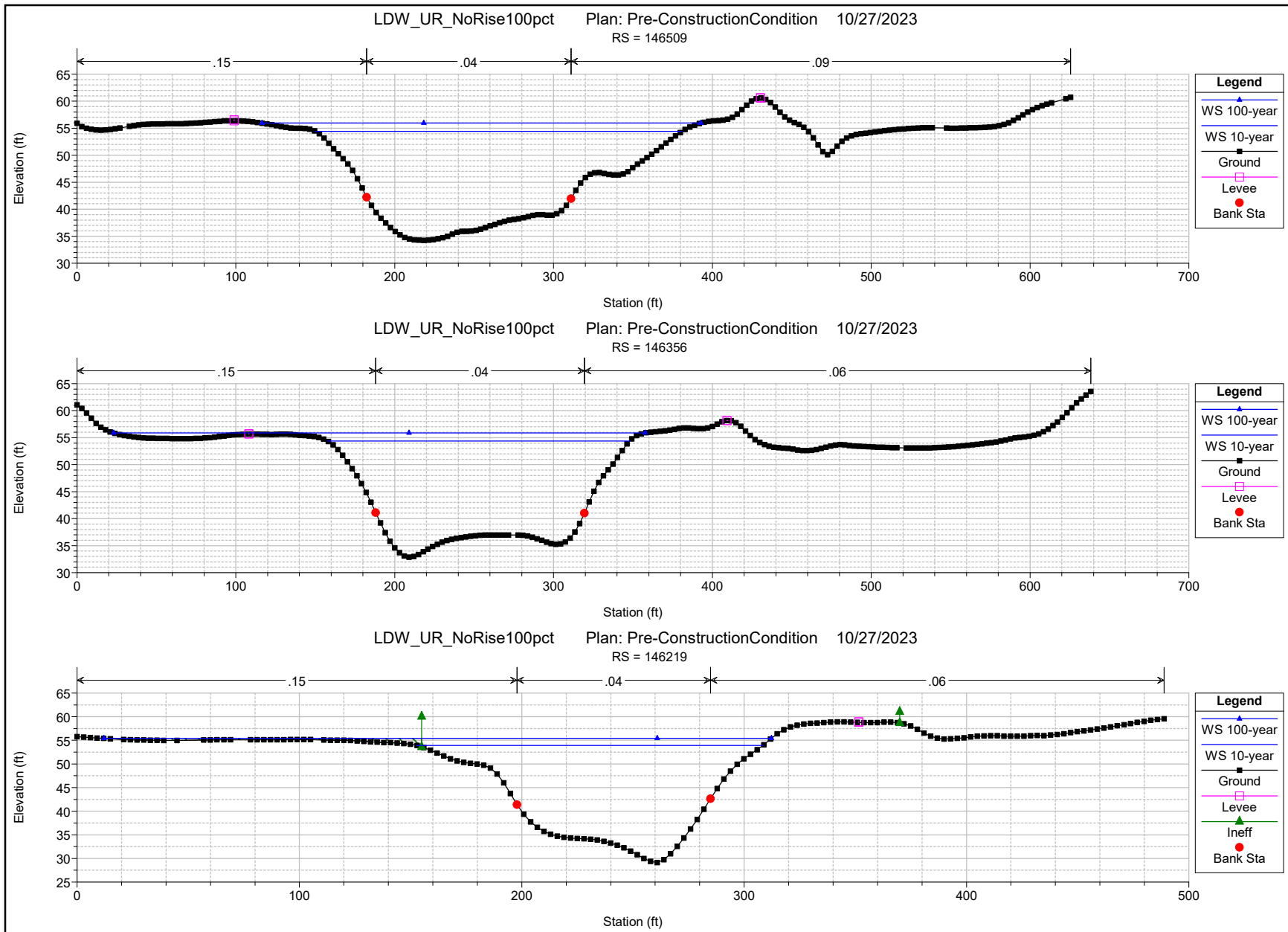




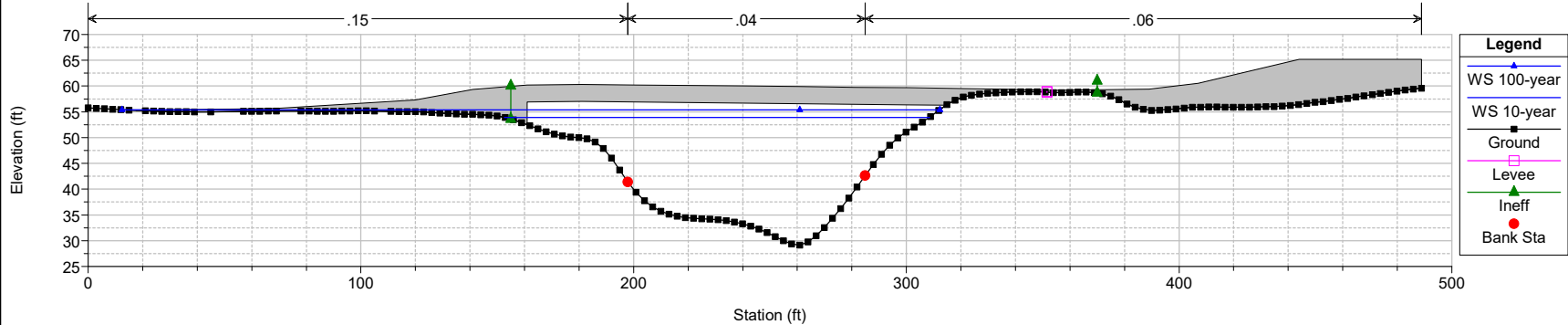




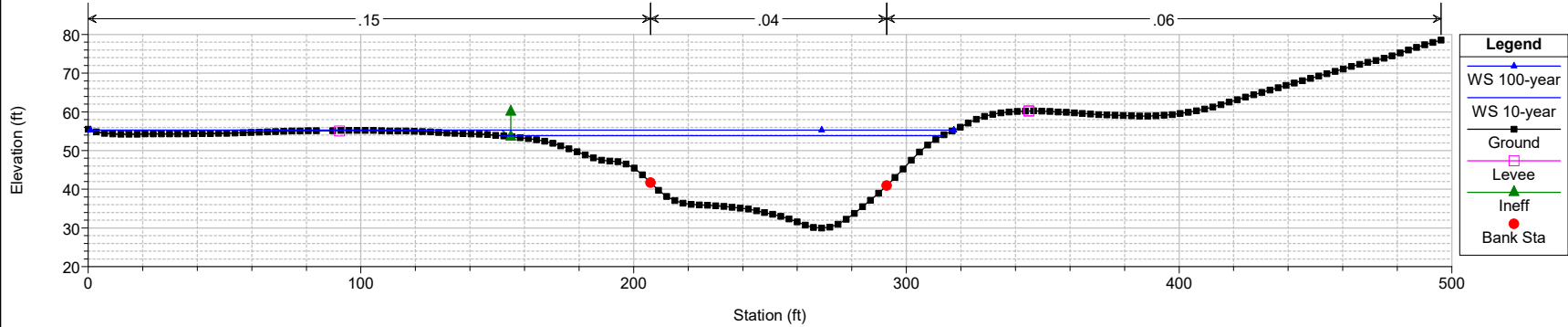




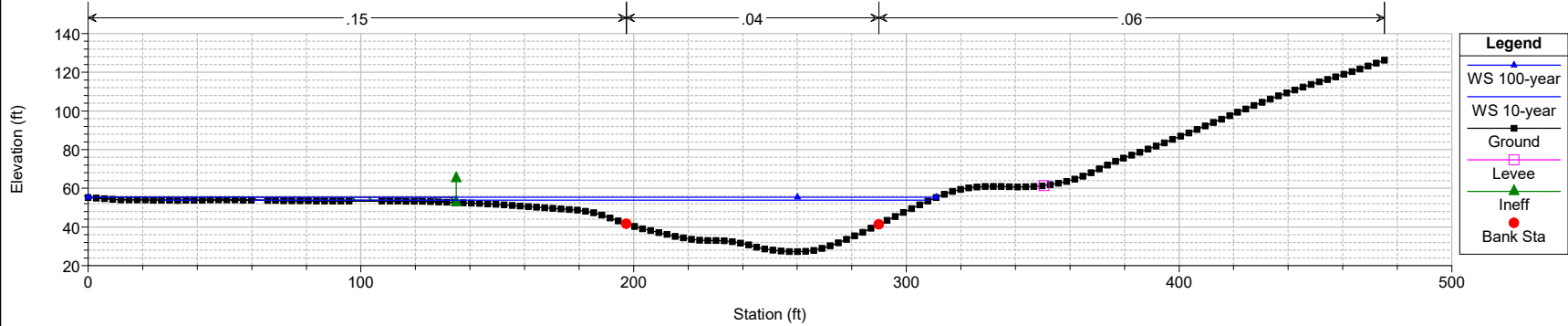
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 146193 BR Footbridge near S. 277th Street

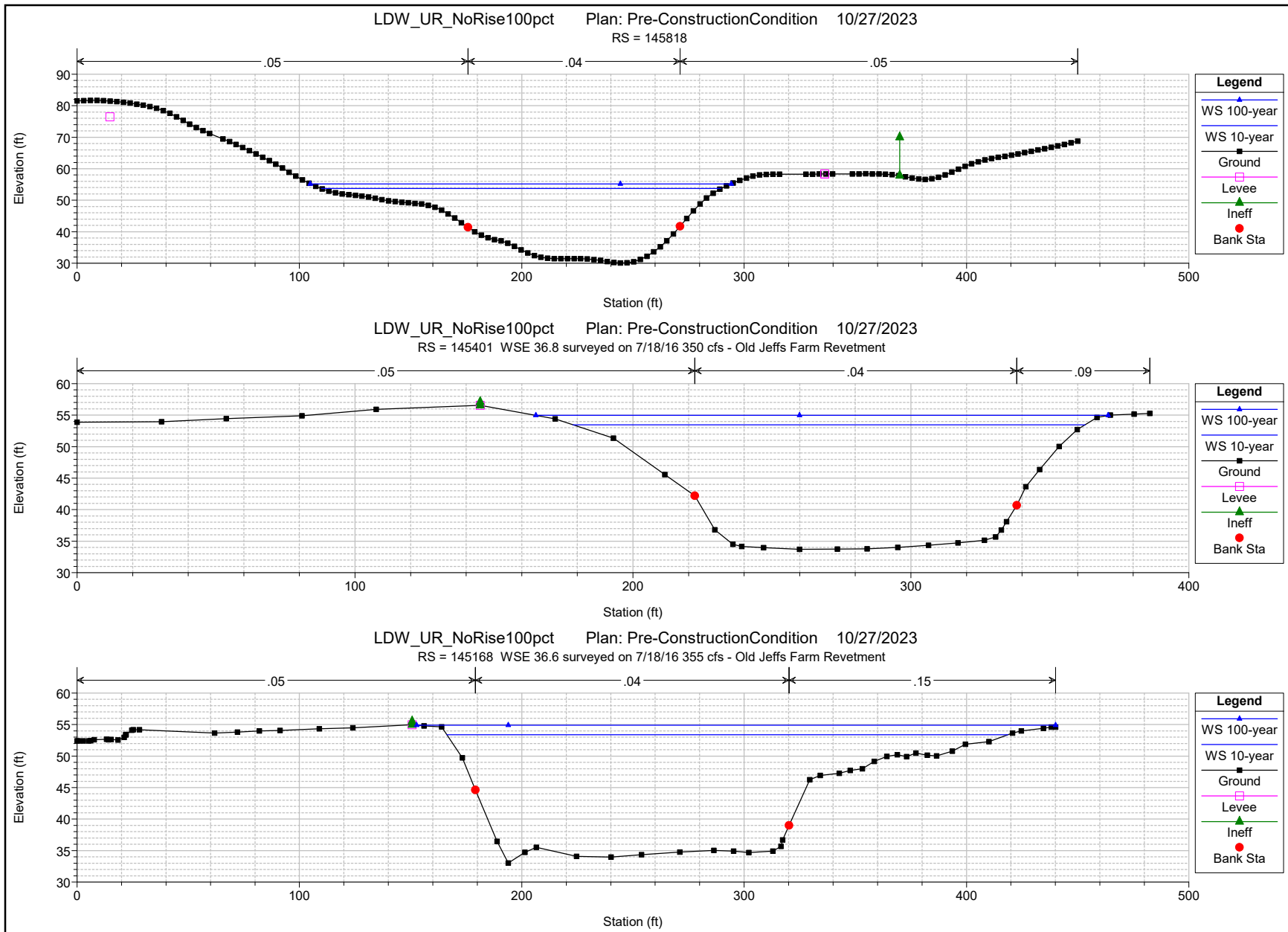


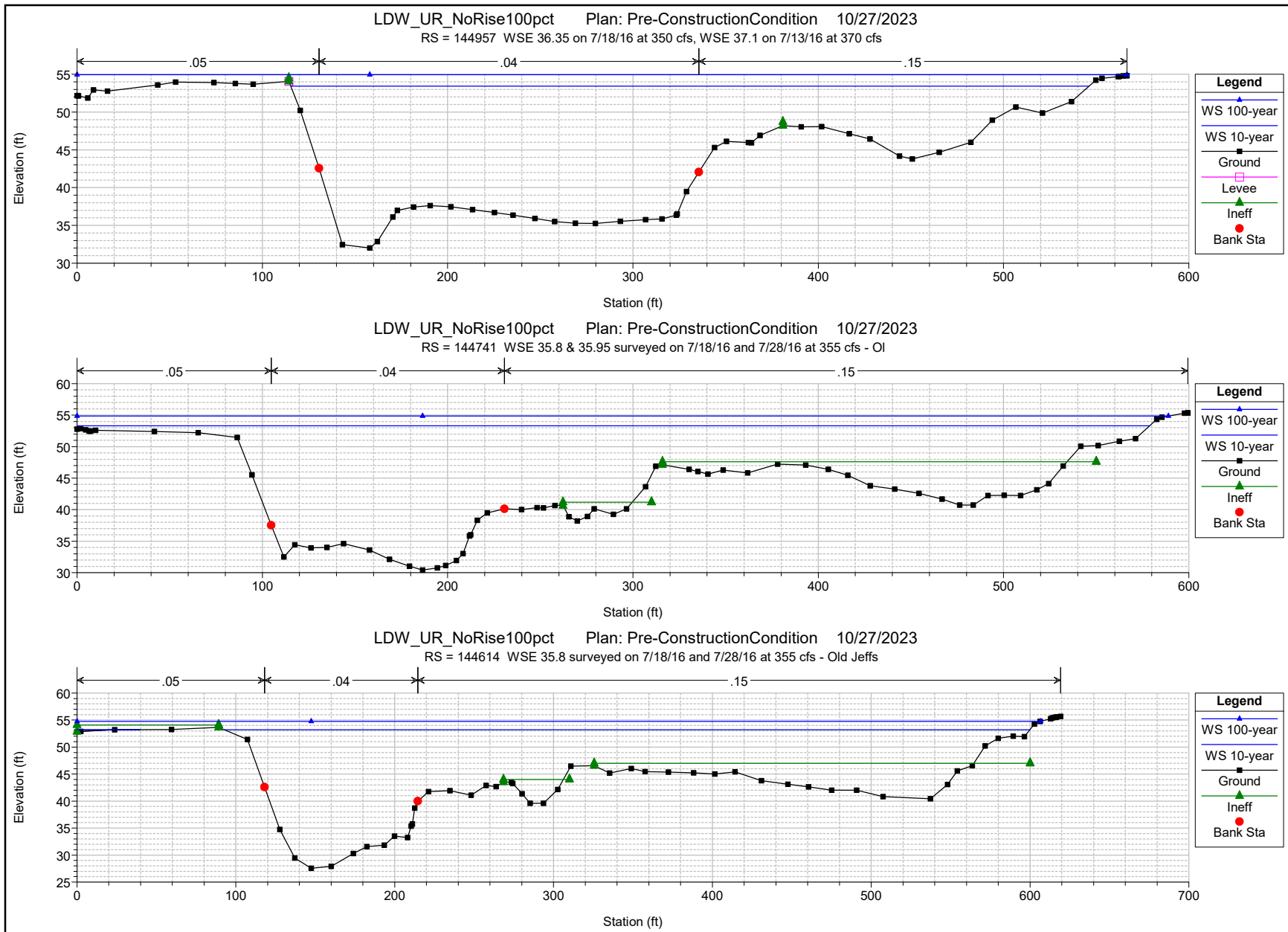
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 146166



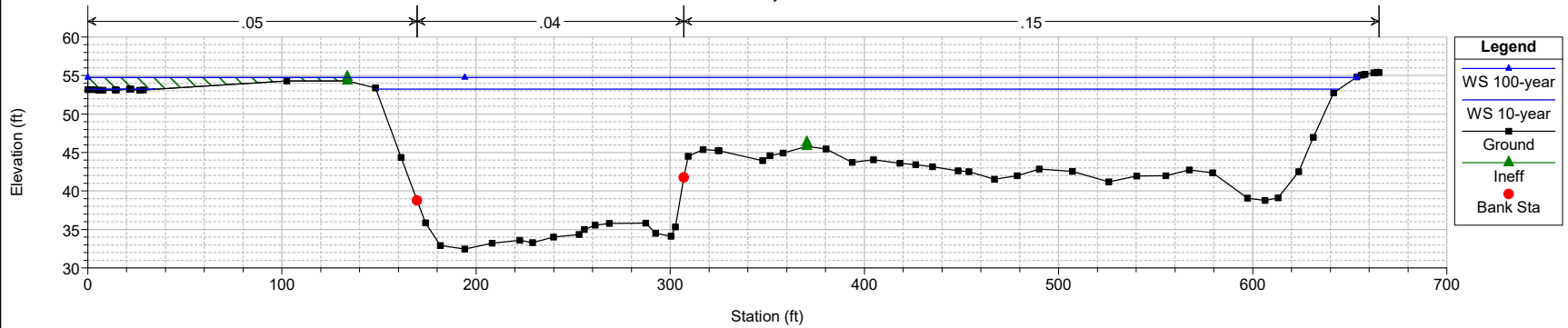
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 146013



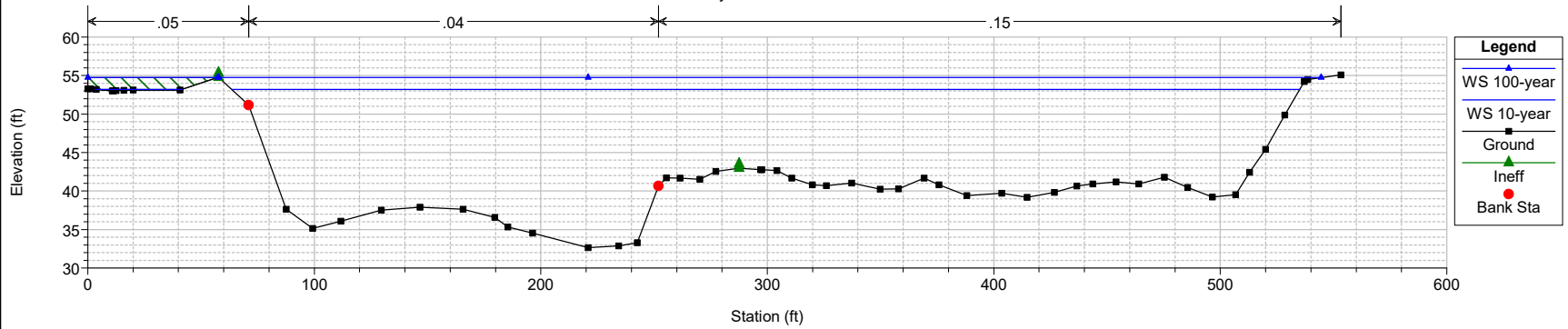




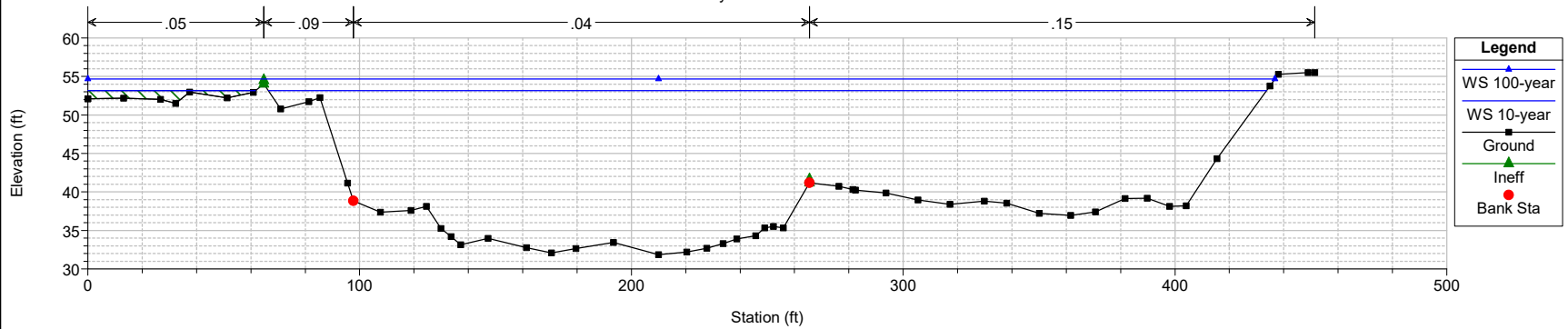
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 144461 WSE 35.3 & 35.4 surveyed on 7/13/16 & 7/21/16 at between 350 an

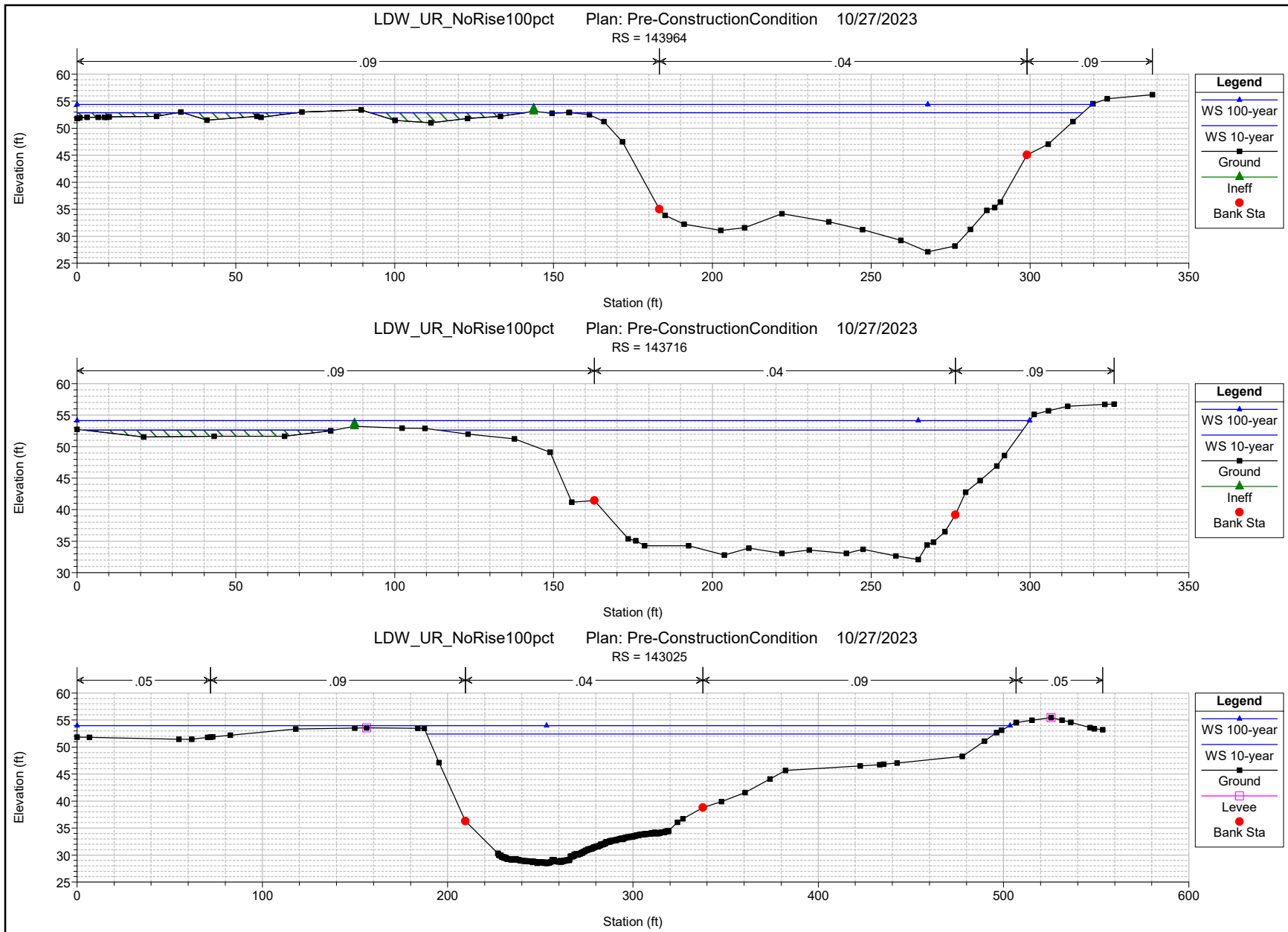


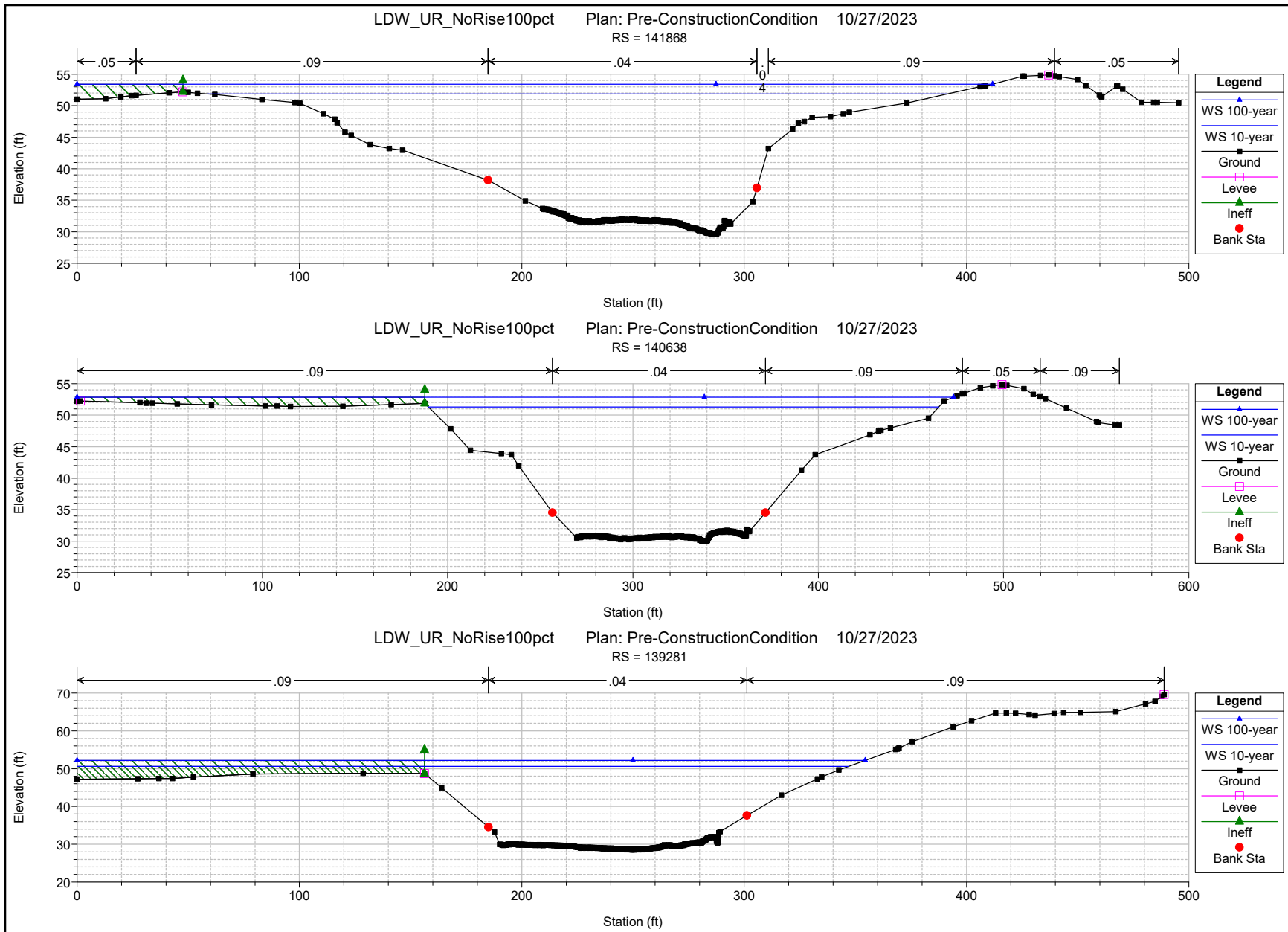
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 144308 WSE 35.4 surveyed on 7/21/16 at 350 cfs - Old Jeffs Farm Revetme

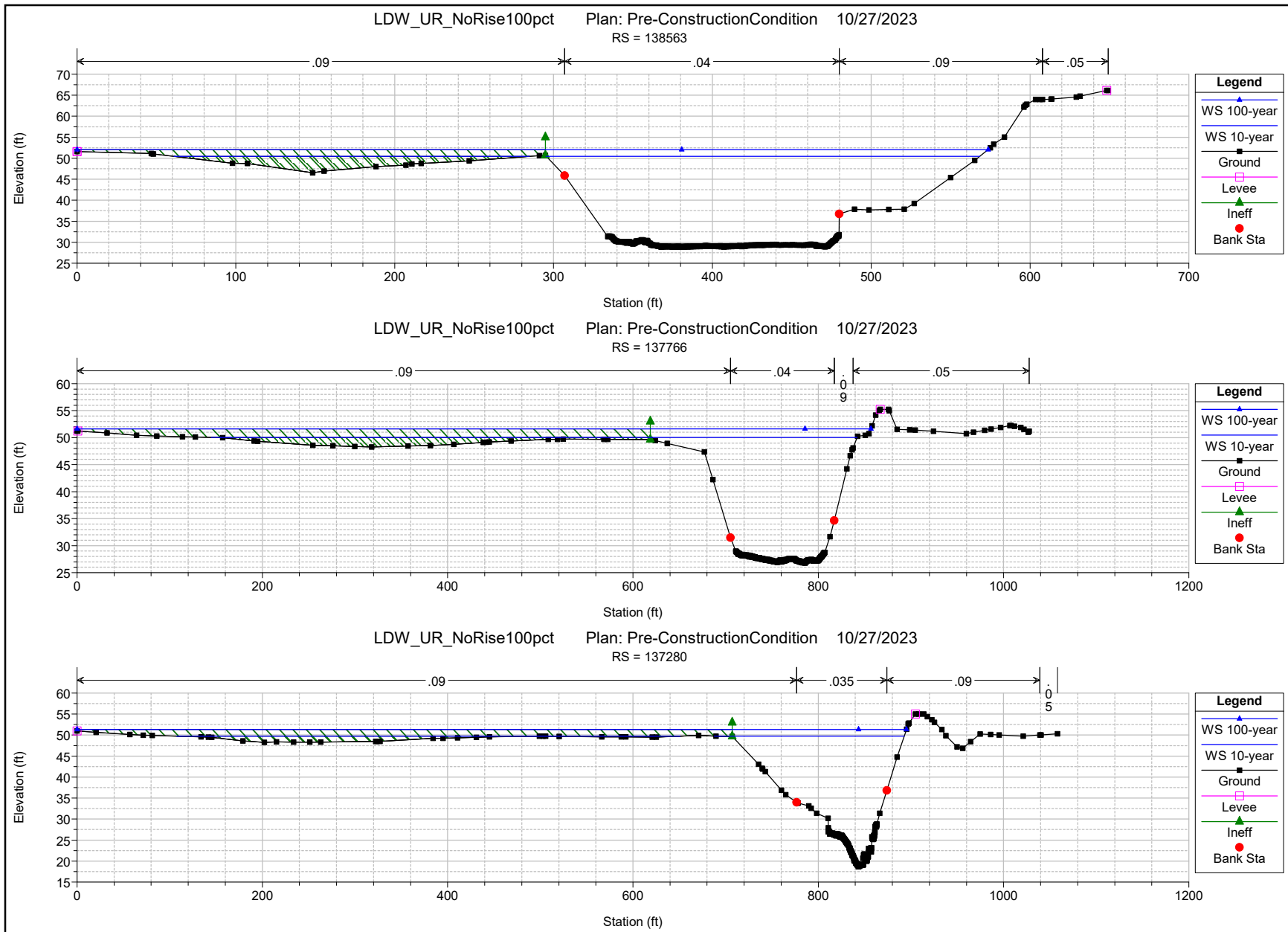


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 144149 WSE 35.3 surveyed on 7/22/16 at 360 cfs - Old Jeffs Farm Revetme

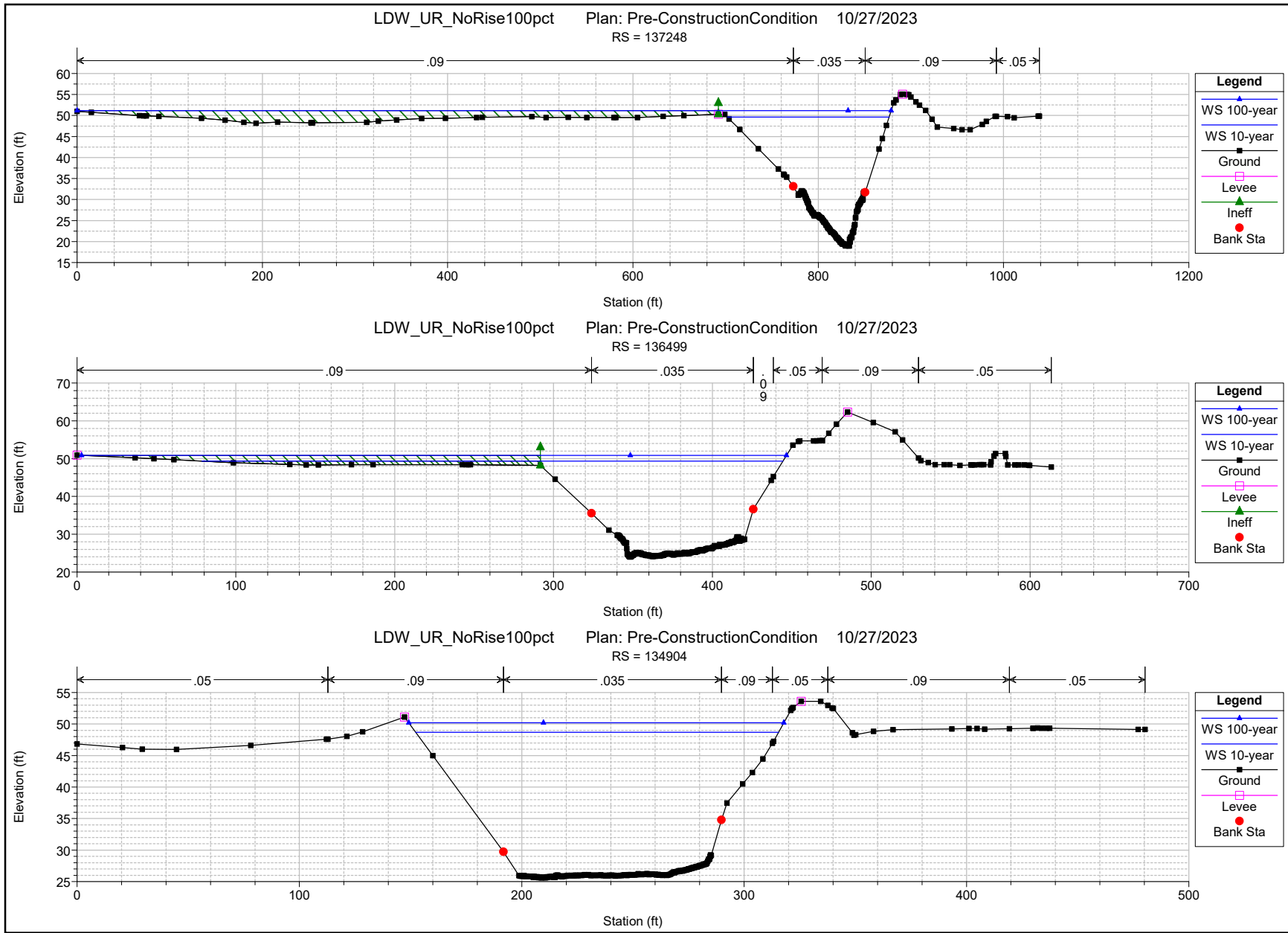


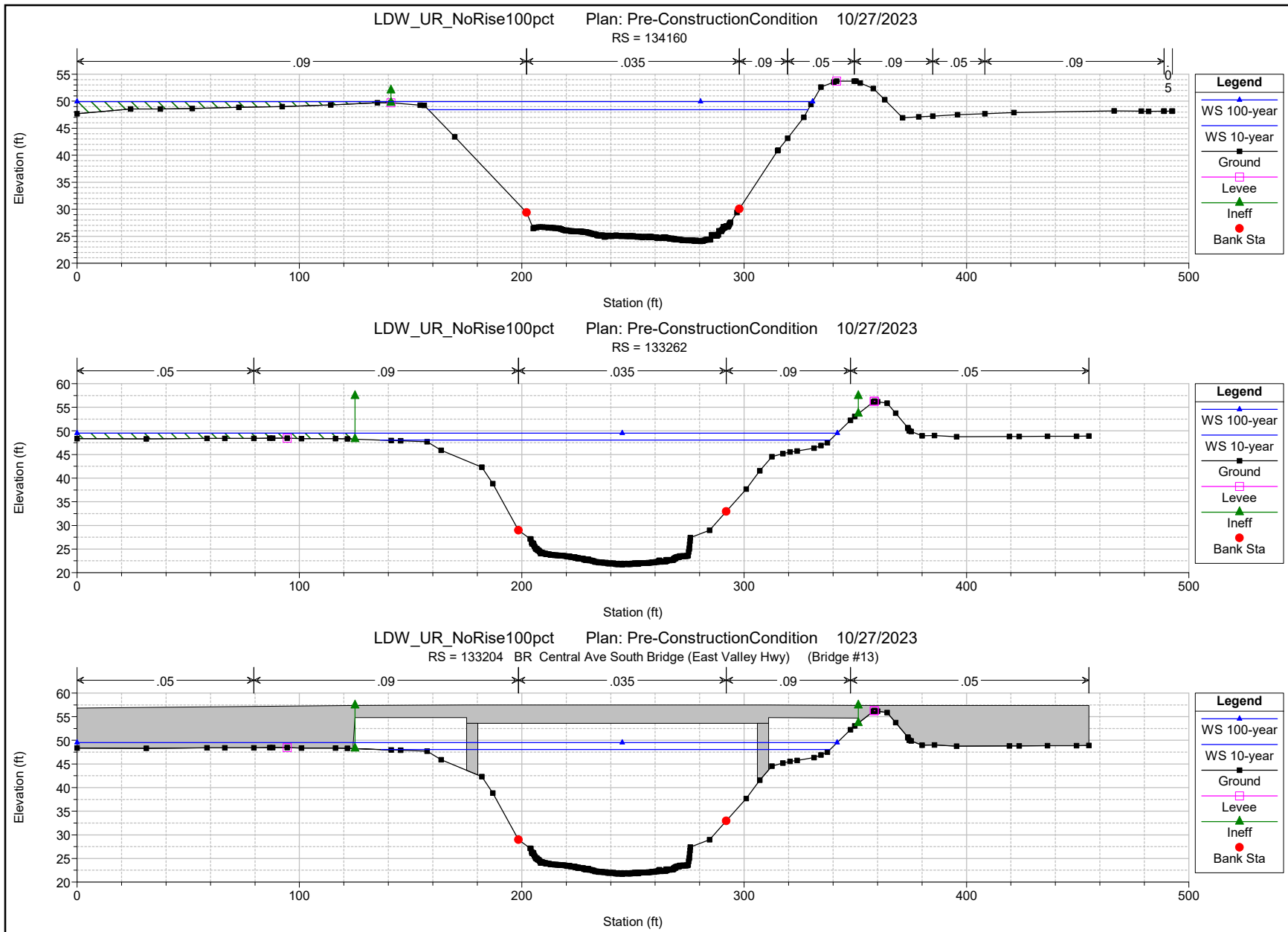


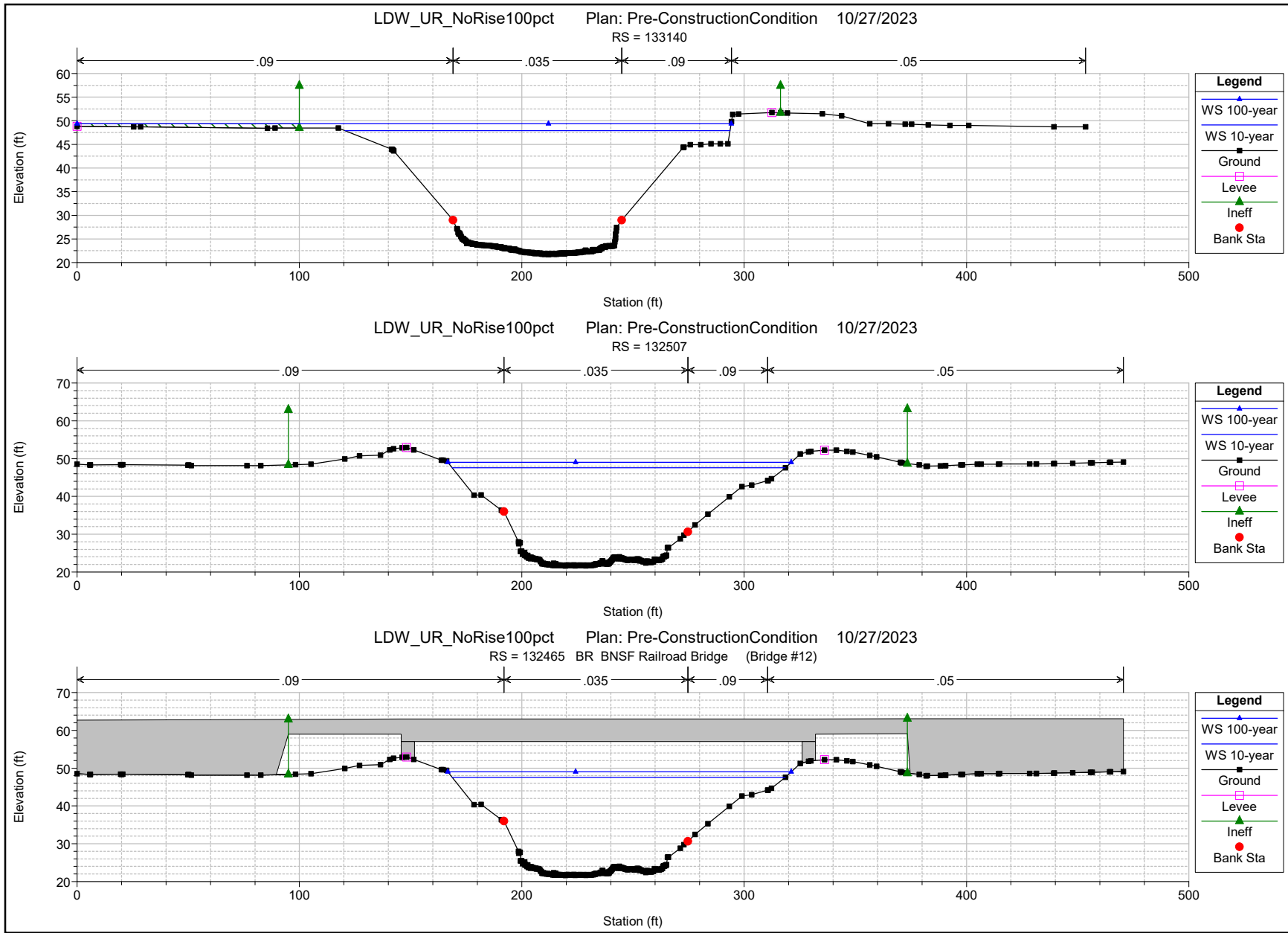


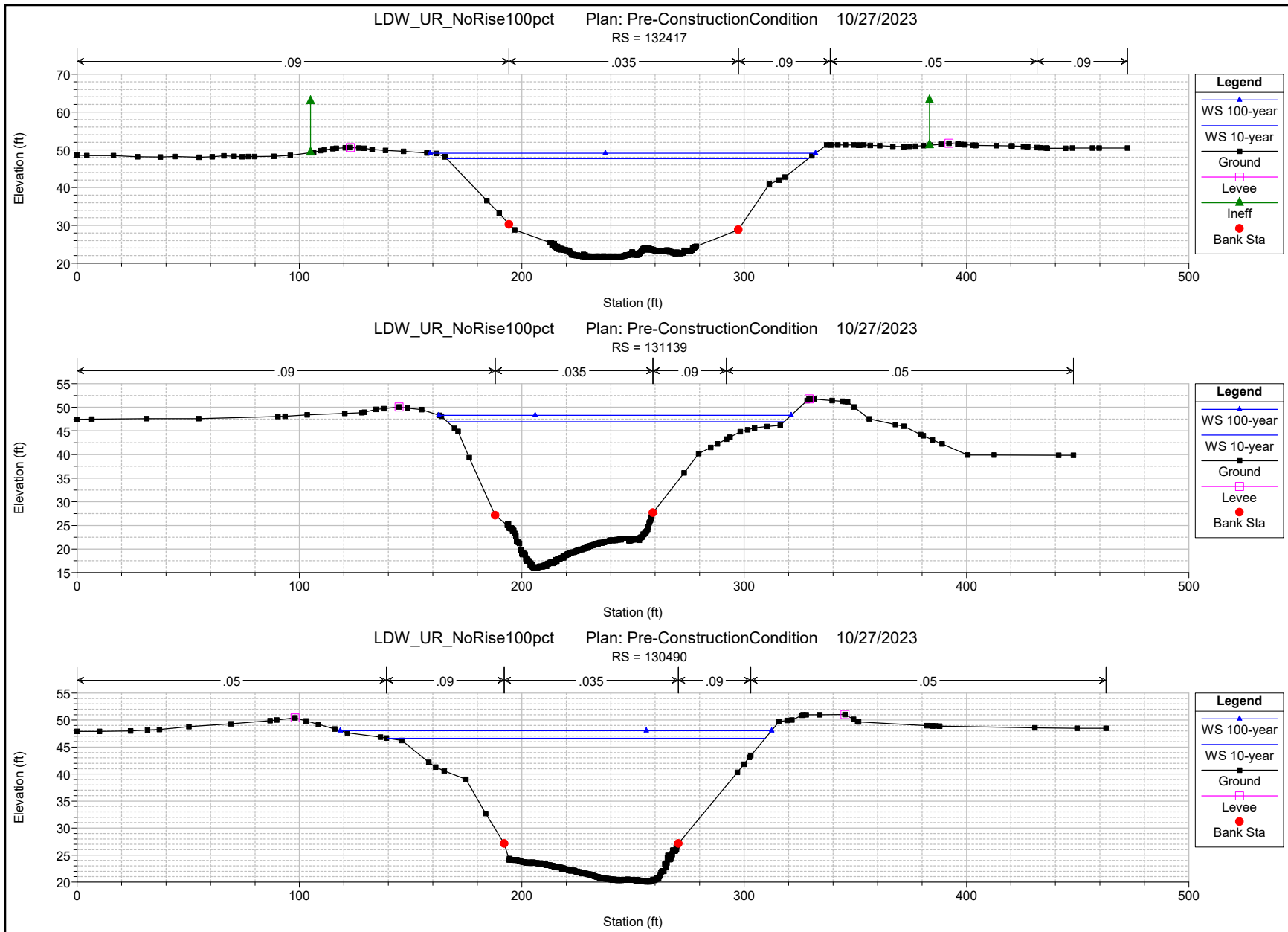


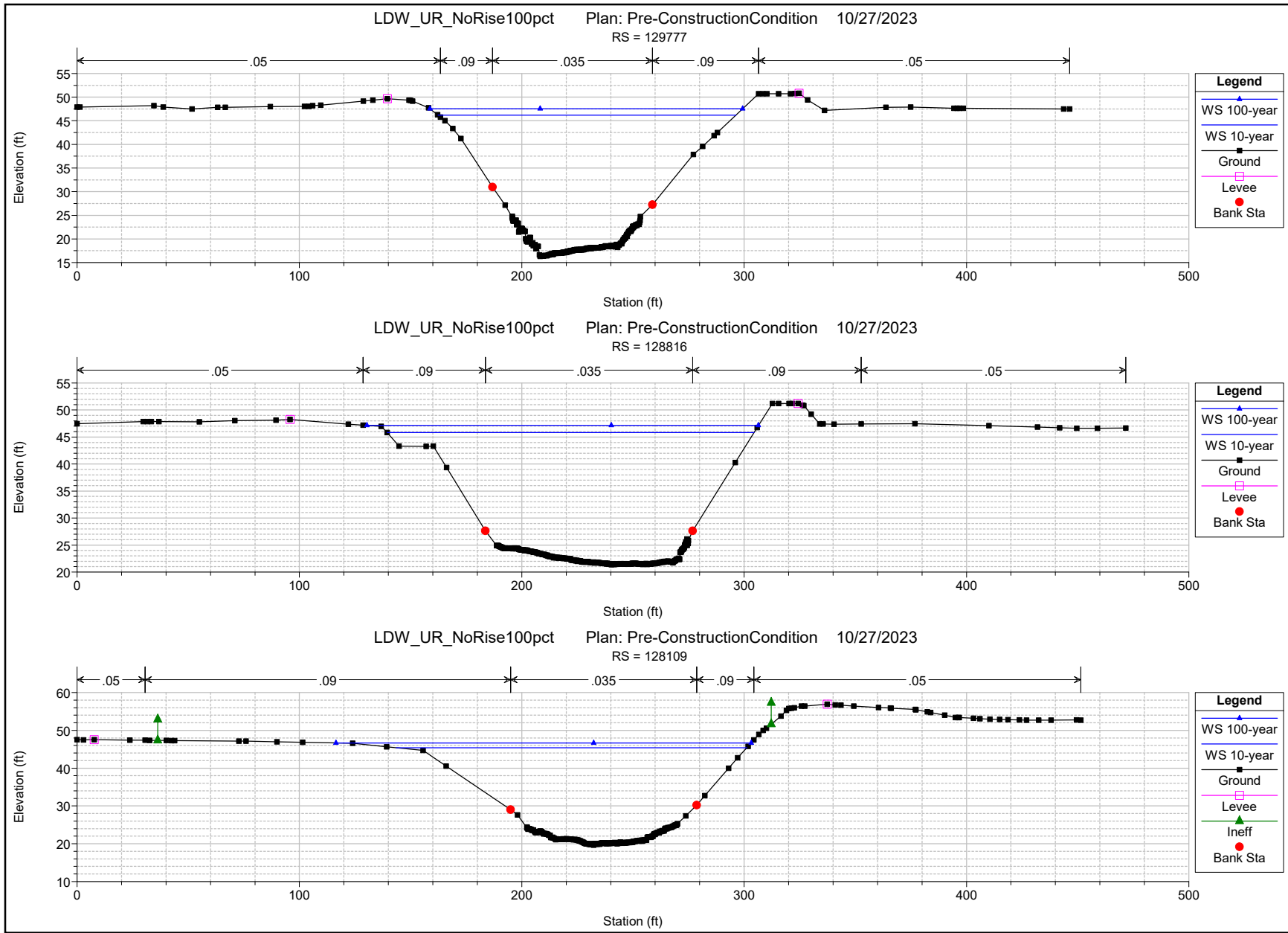




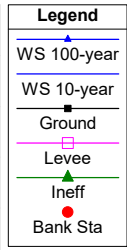
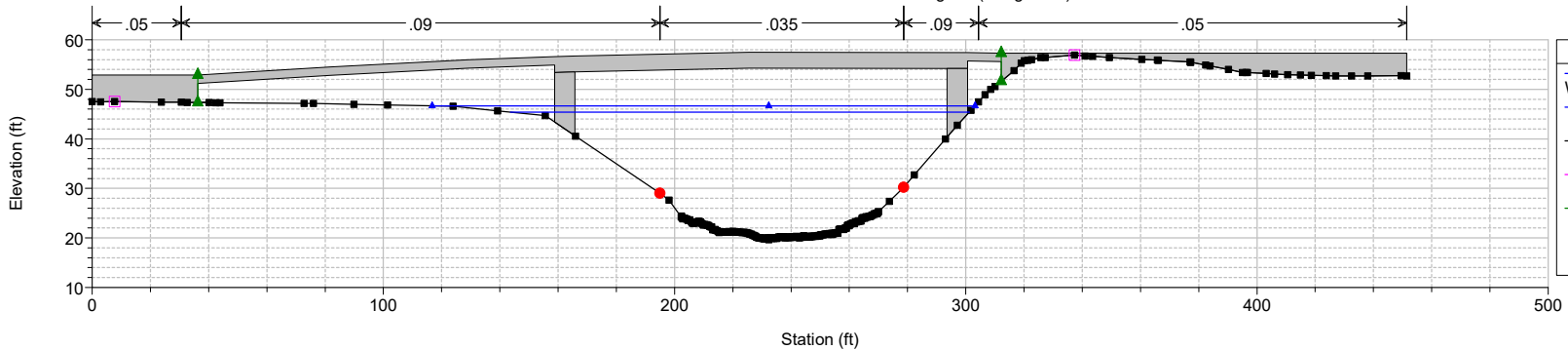




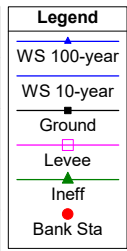
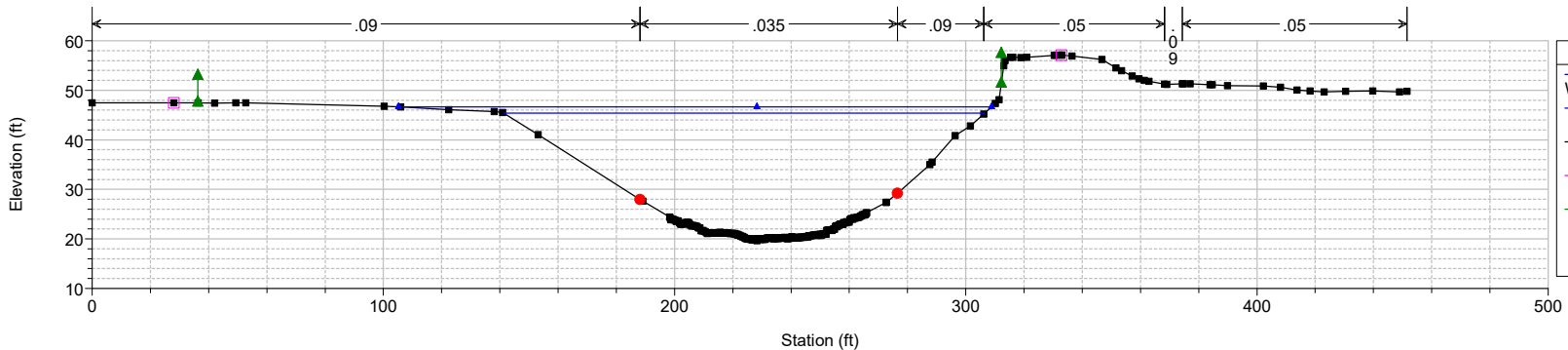




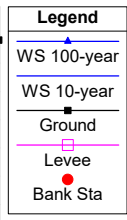
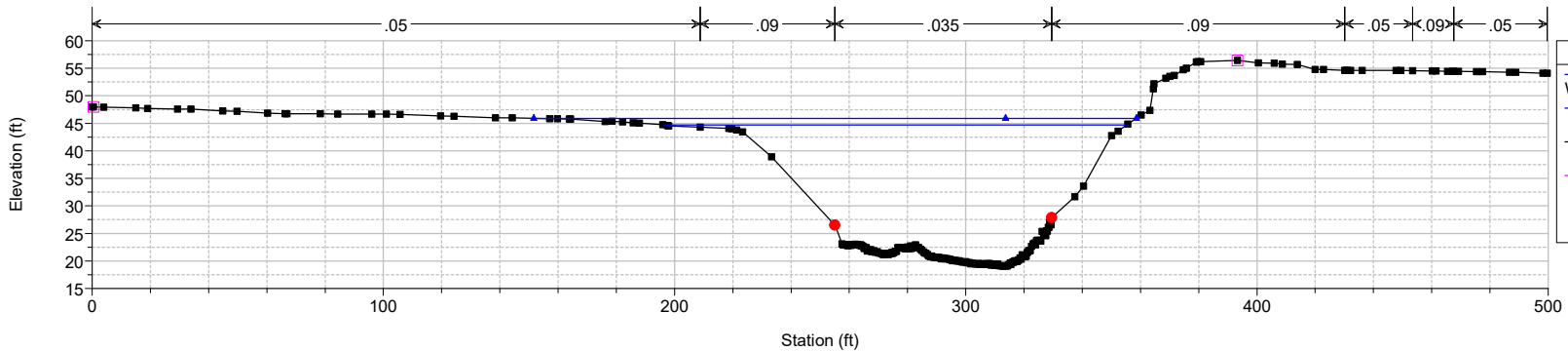
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 128082 BR 3rd Avenue South Bridge (Bridge #11)

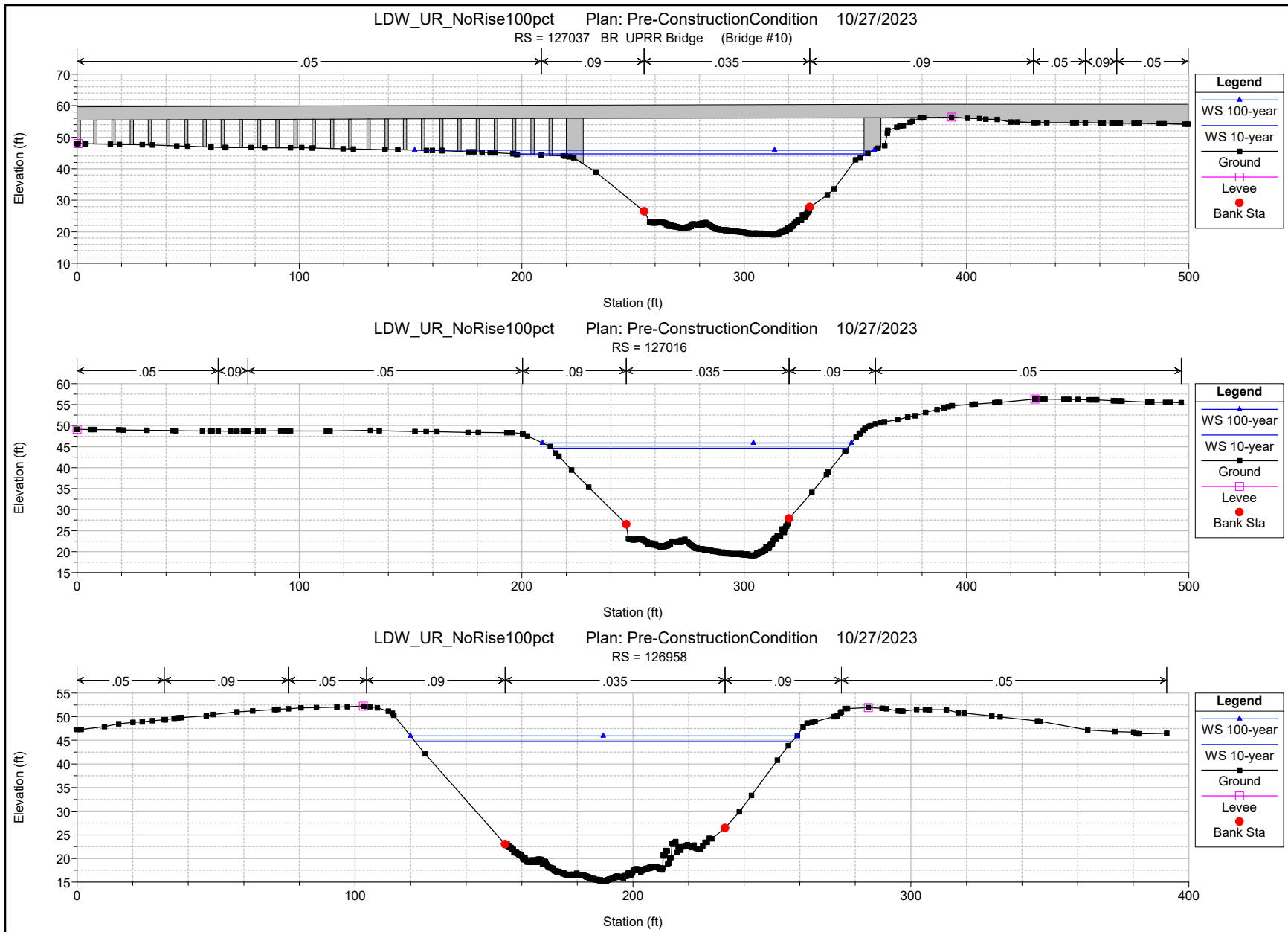


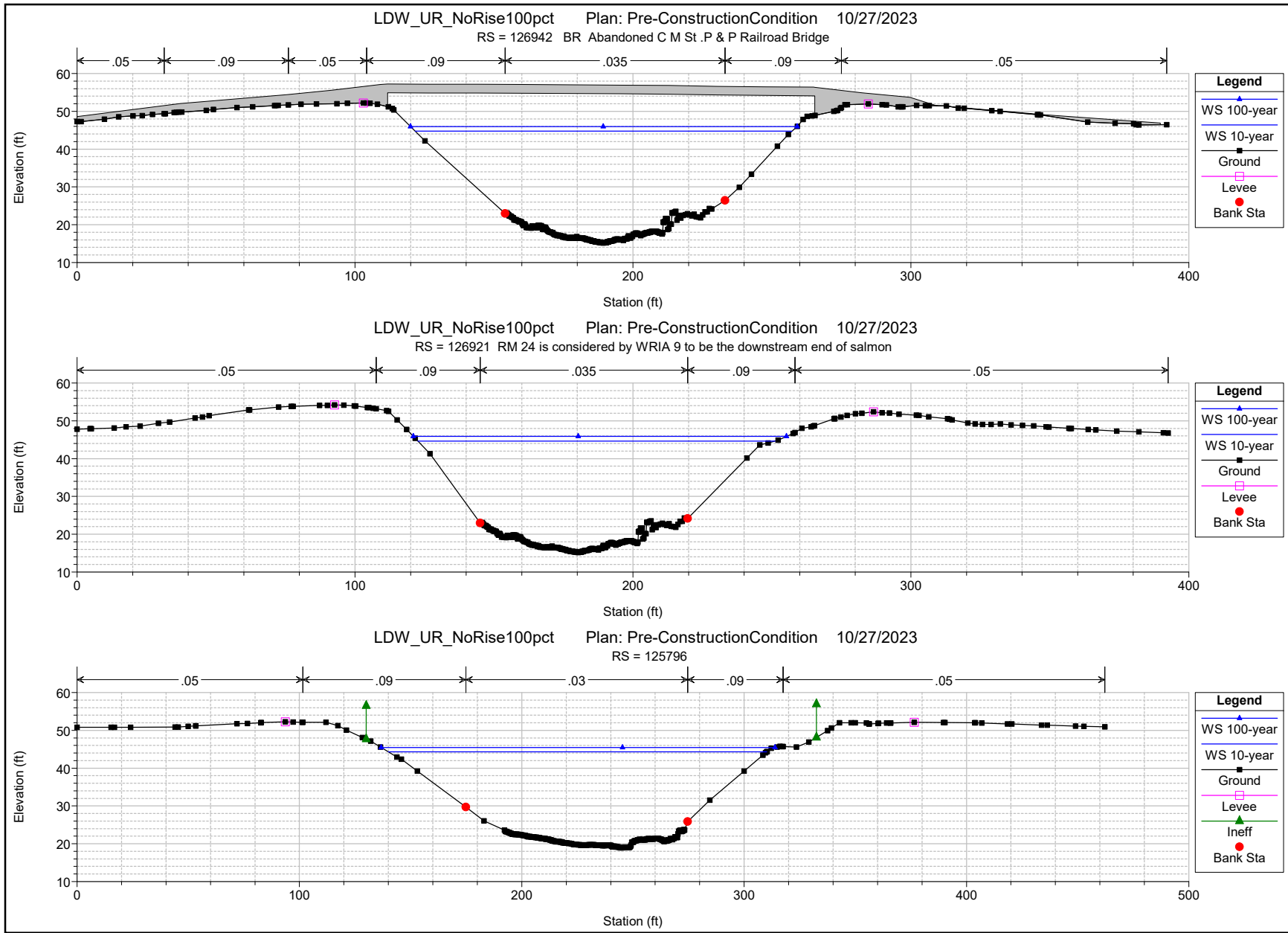
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 128056



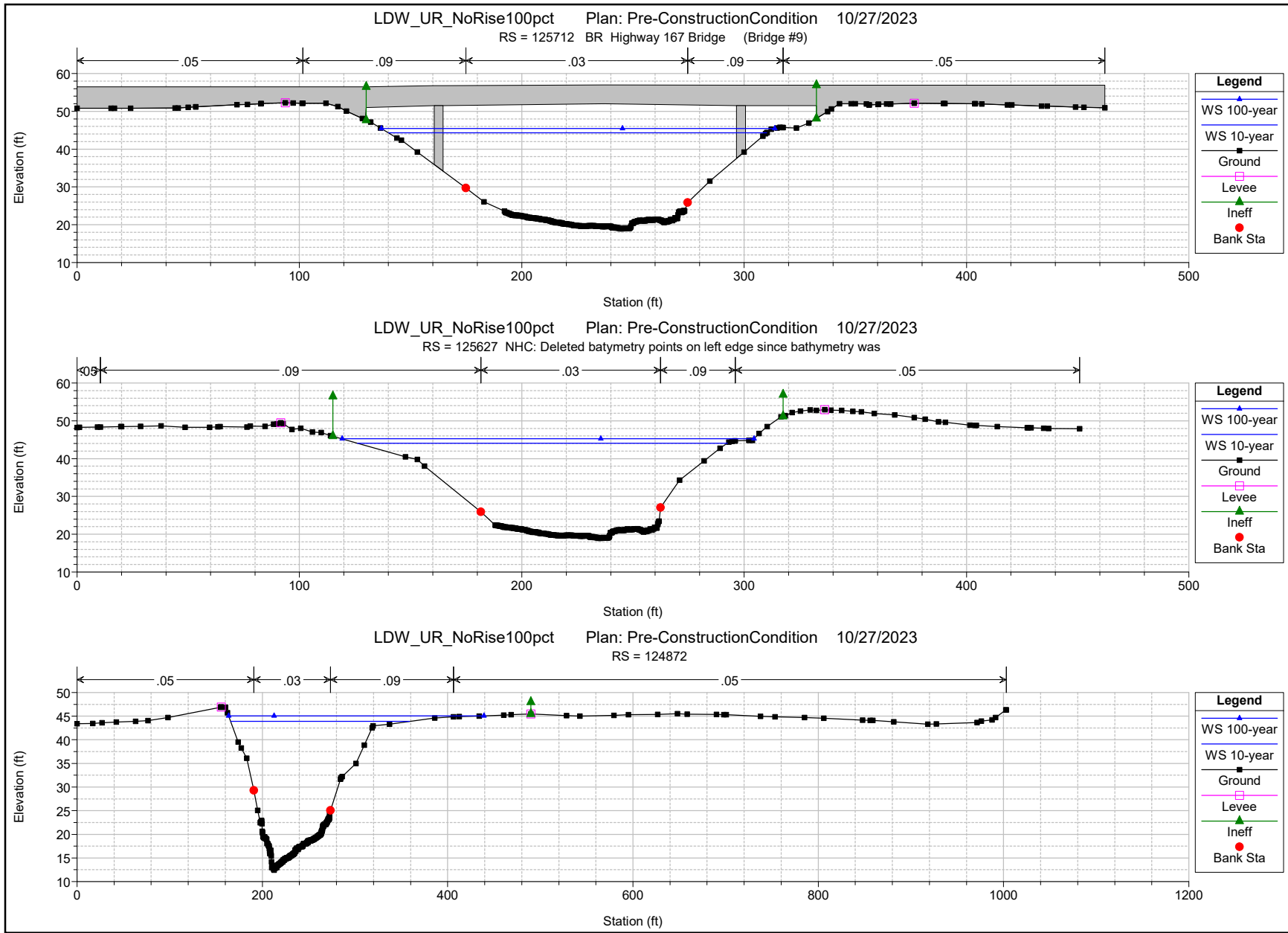
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 RS = 127053

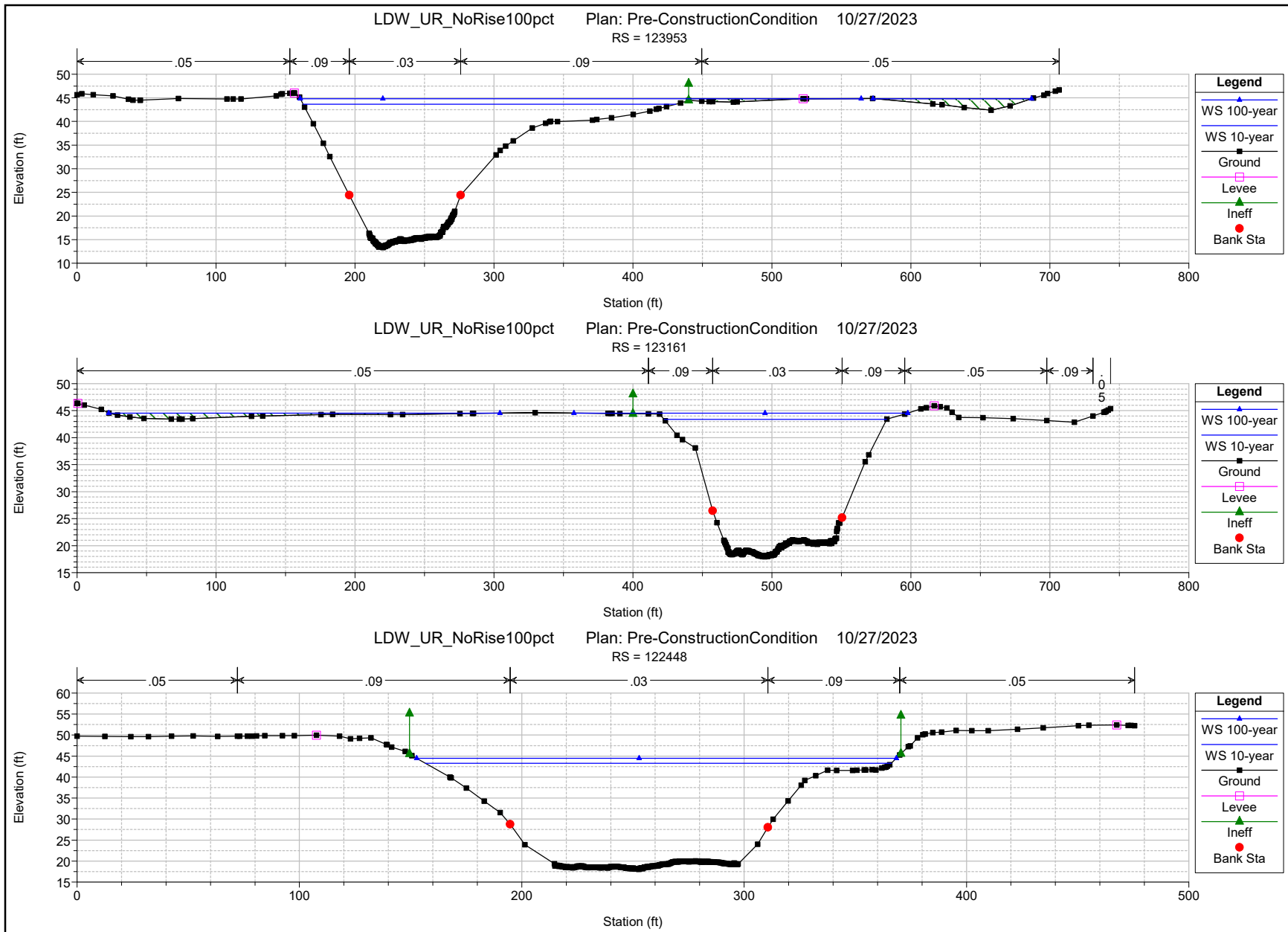


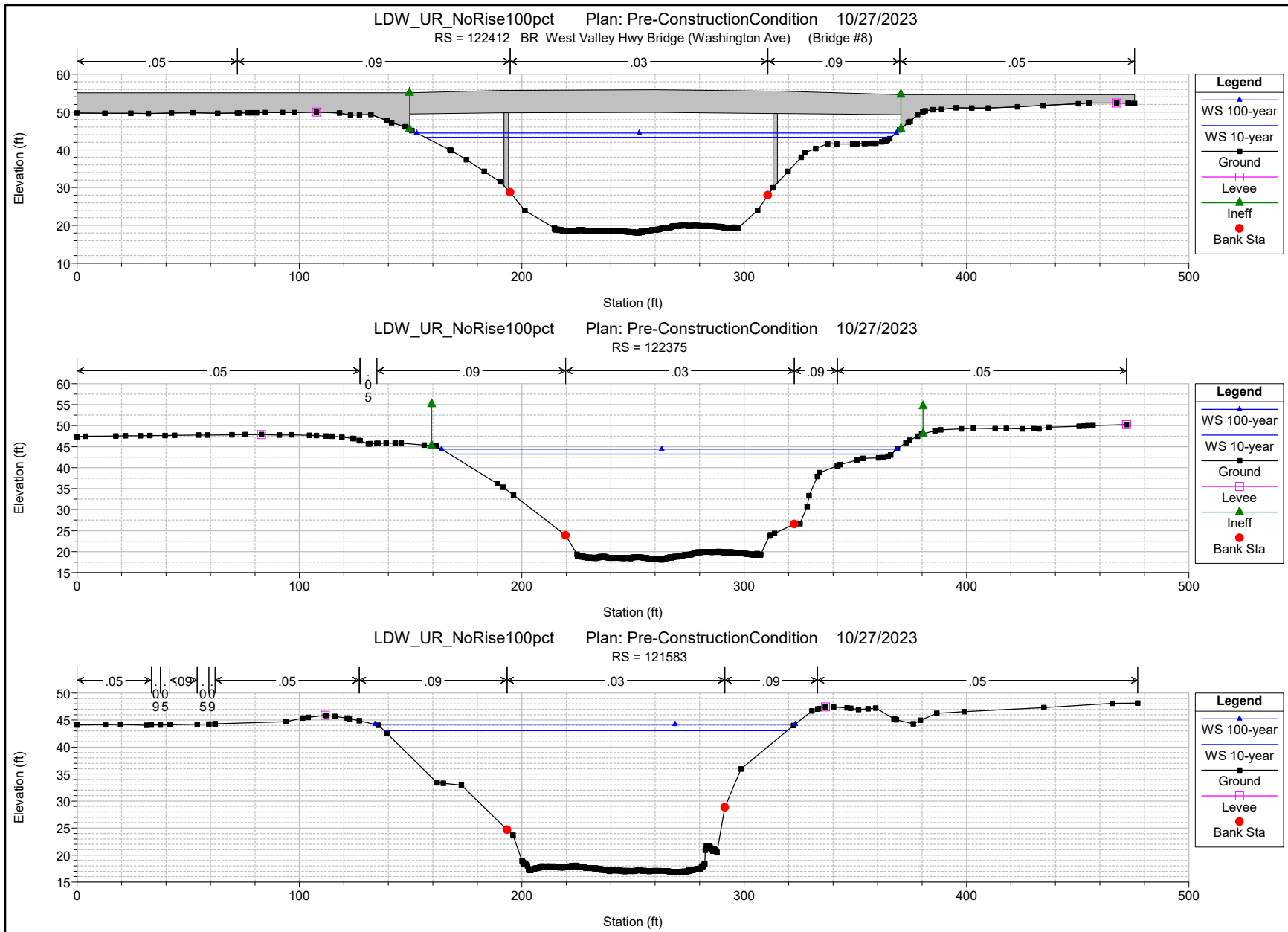


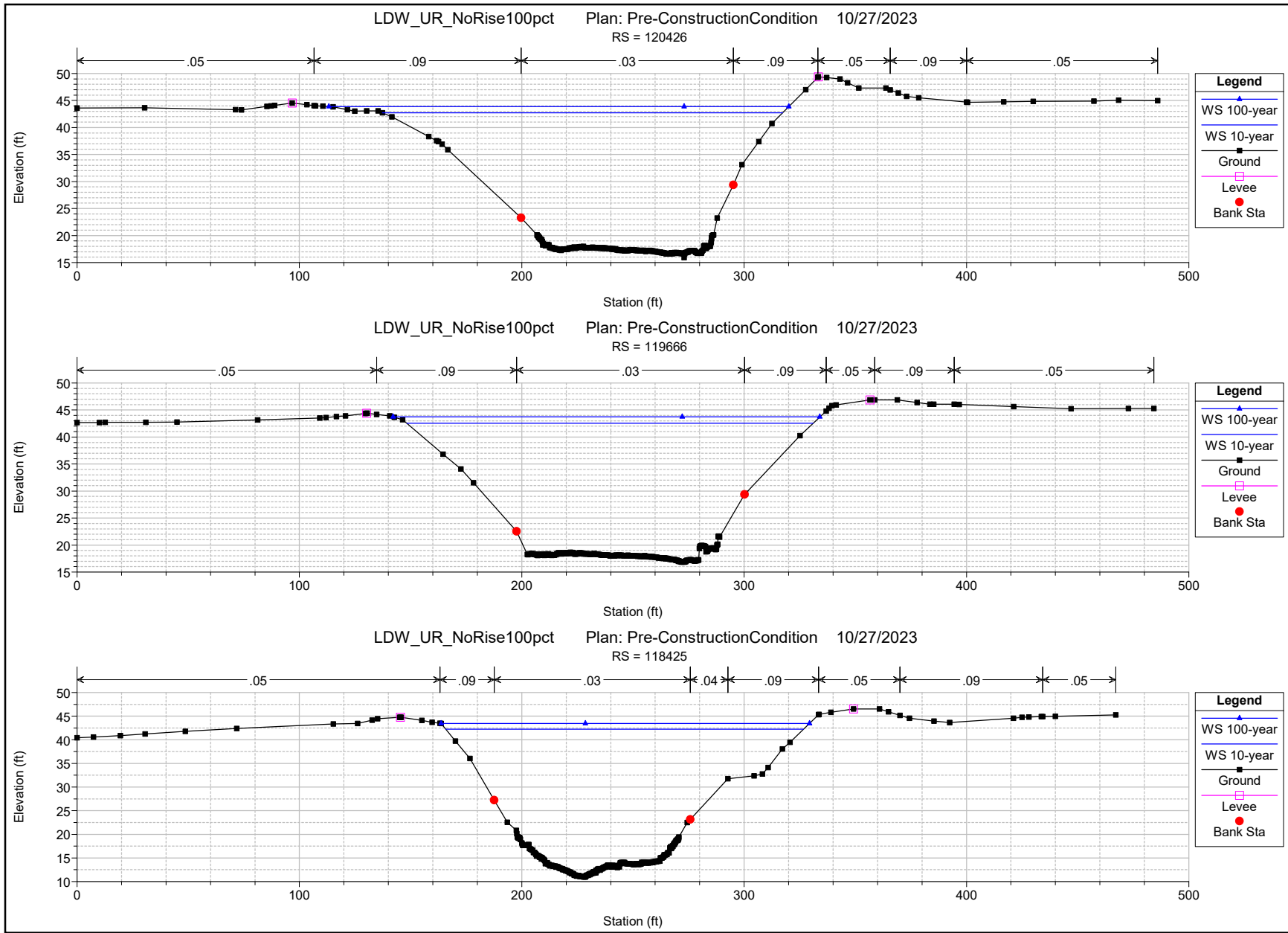


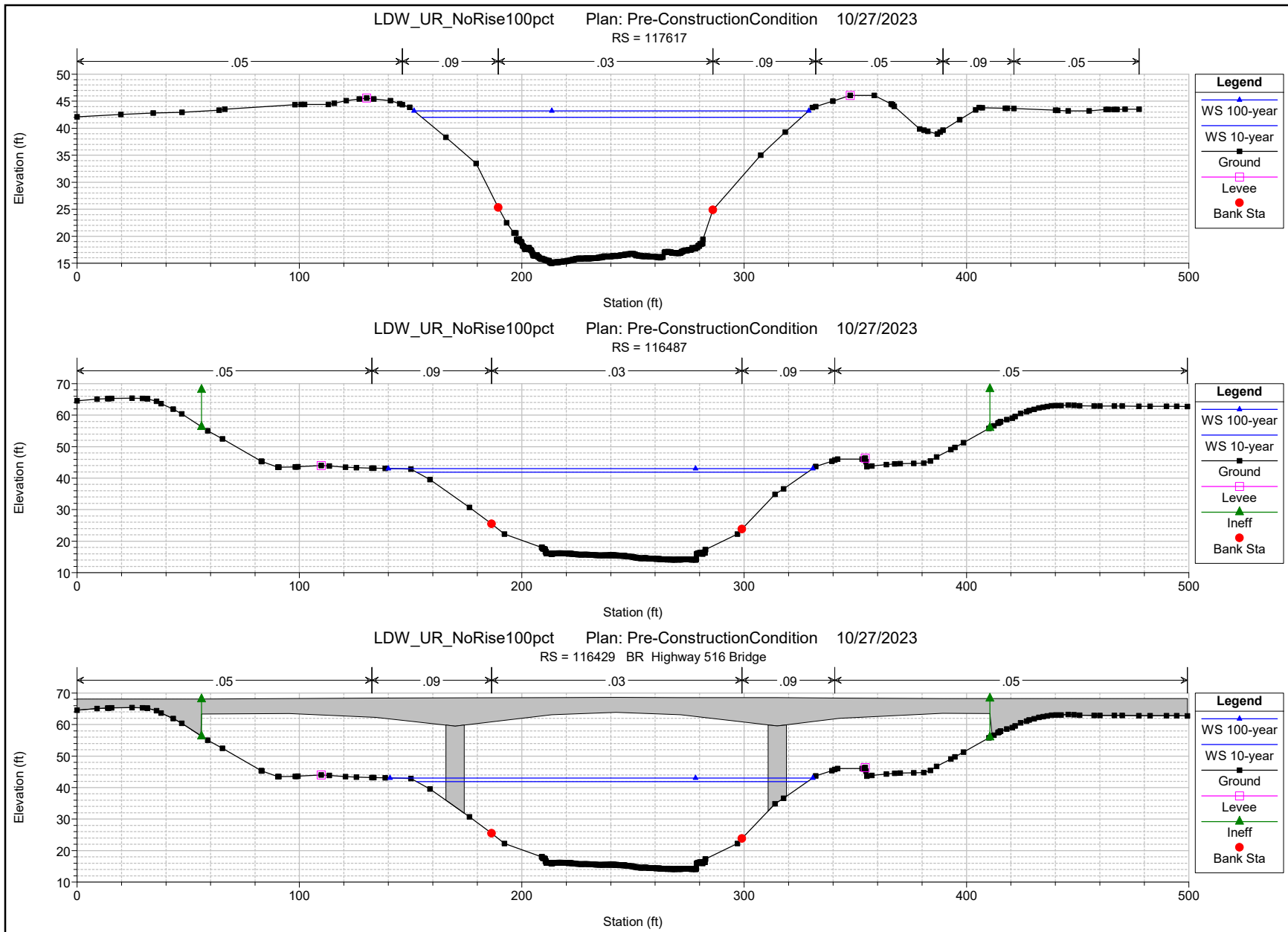


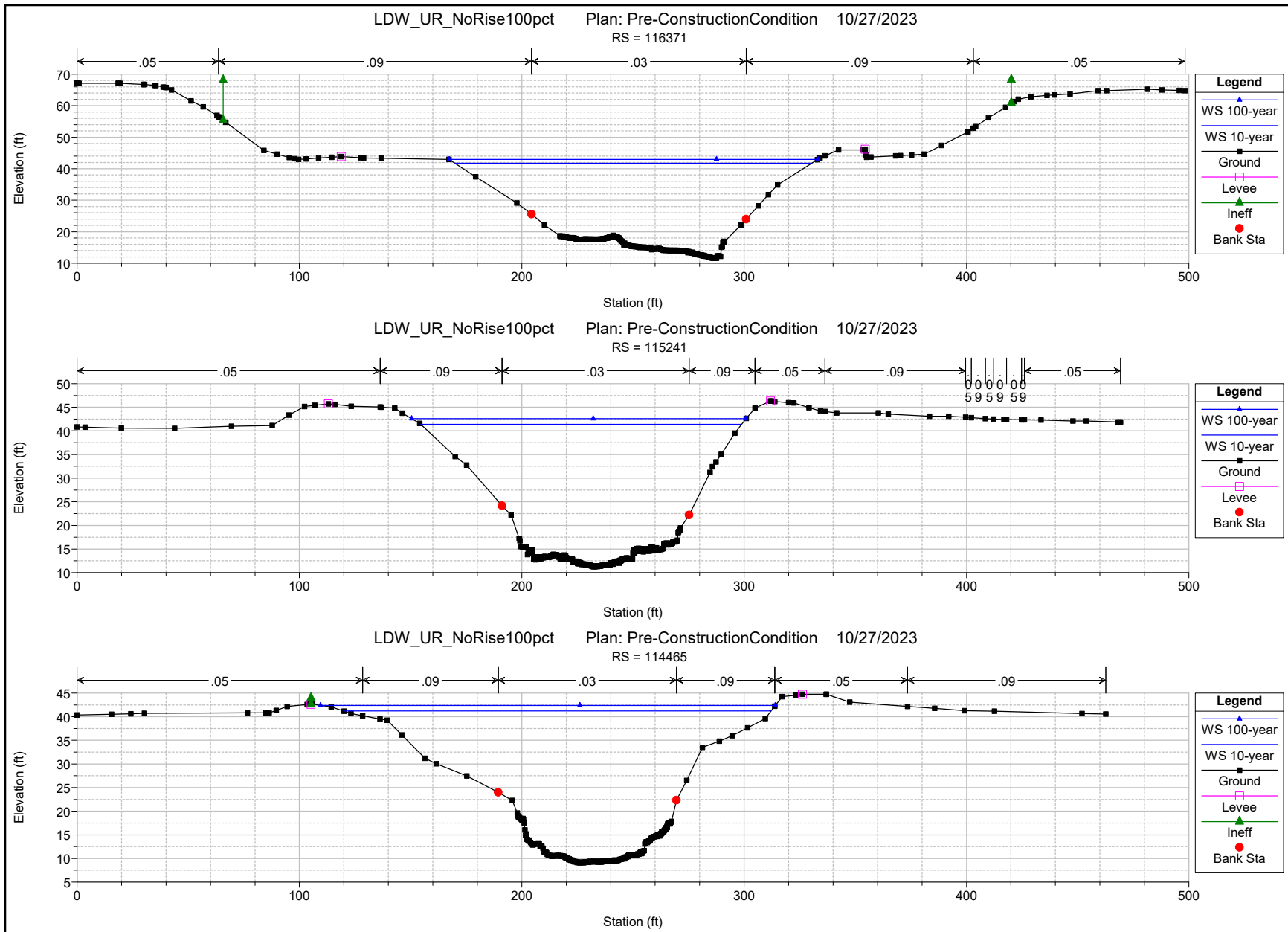


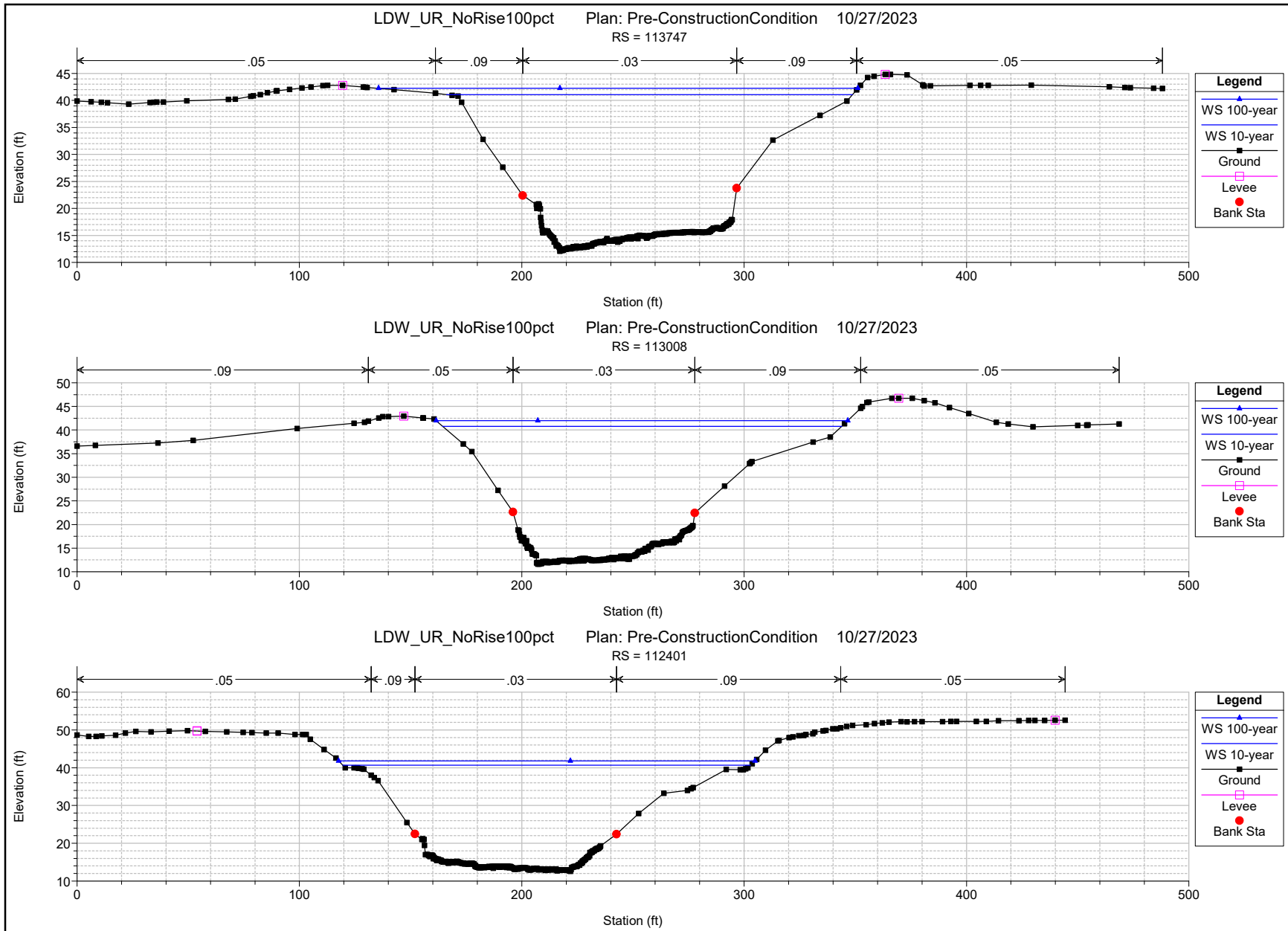


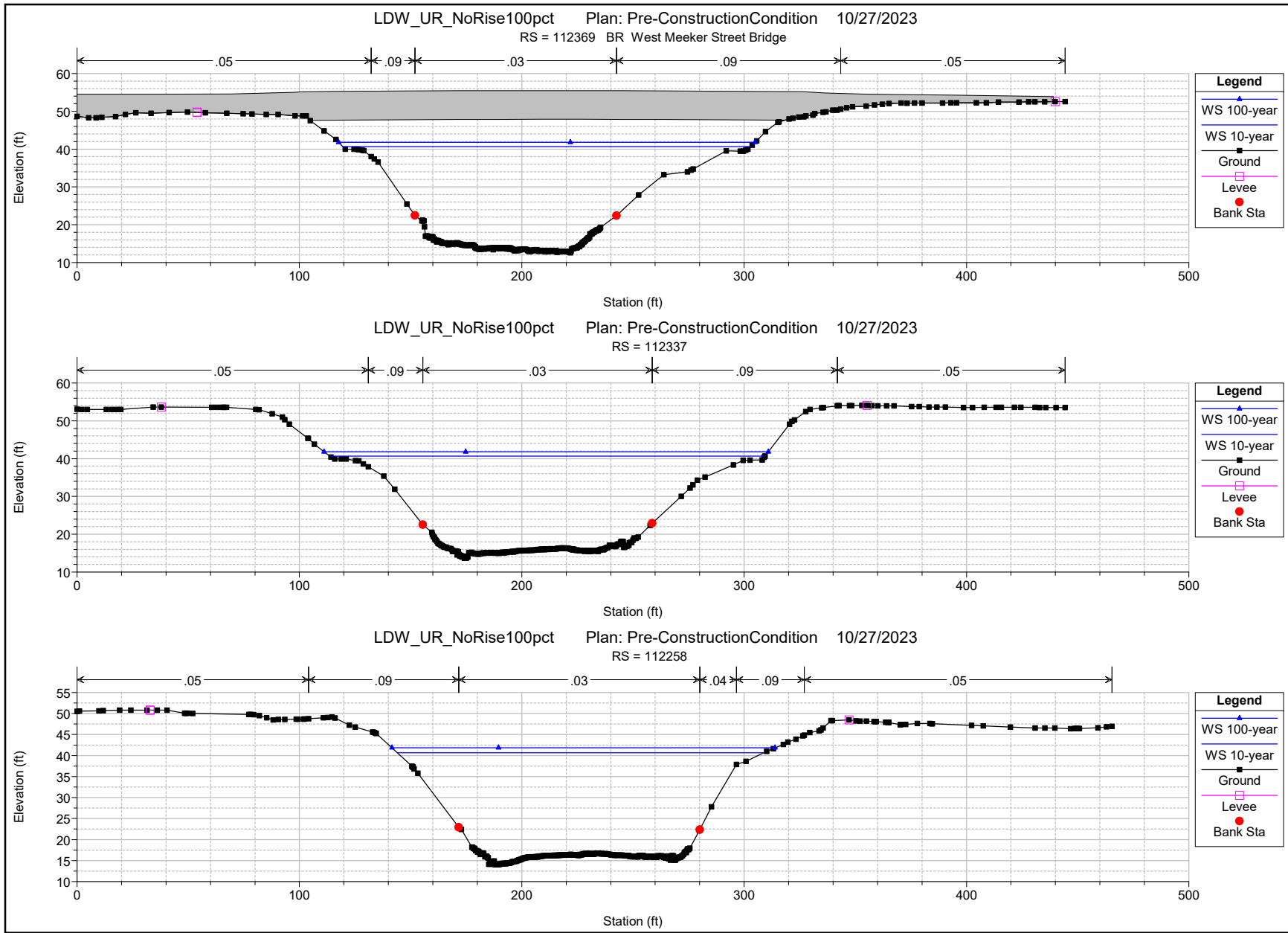




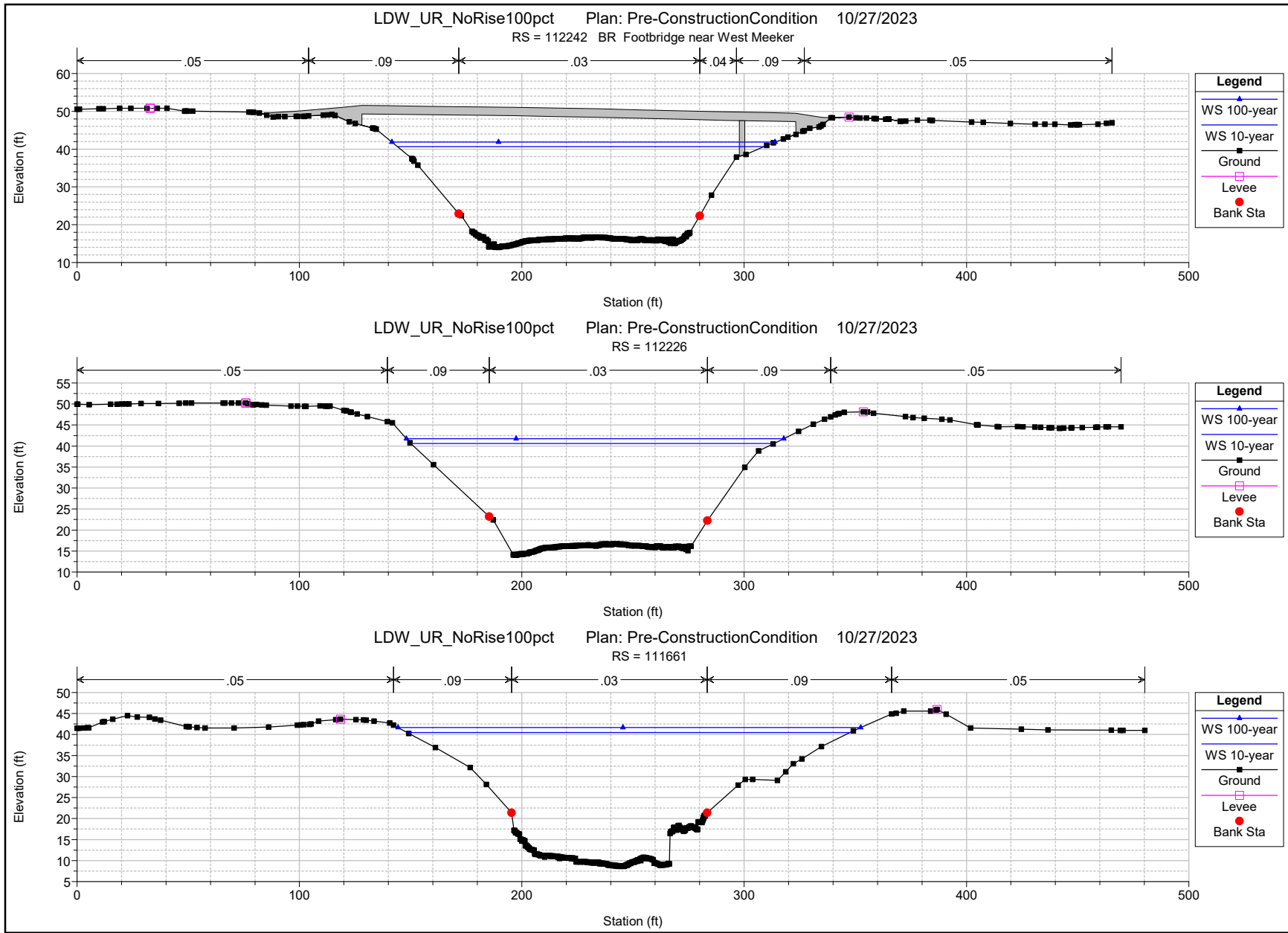


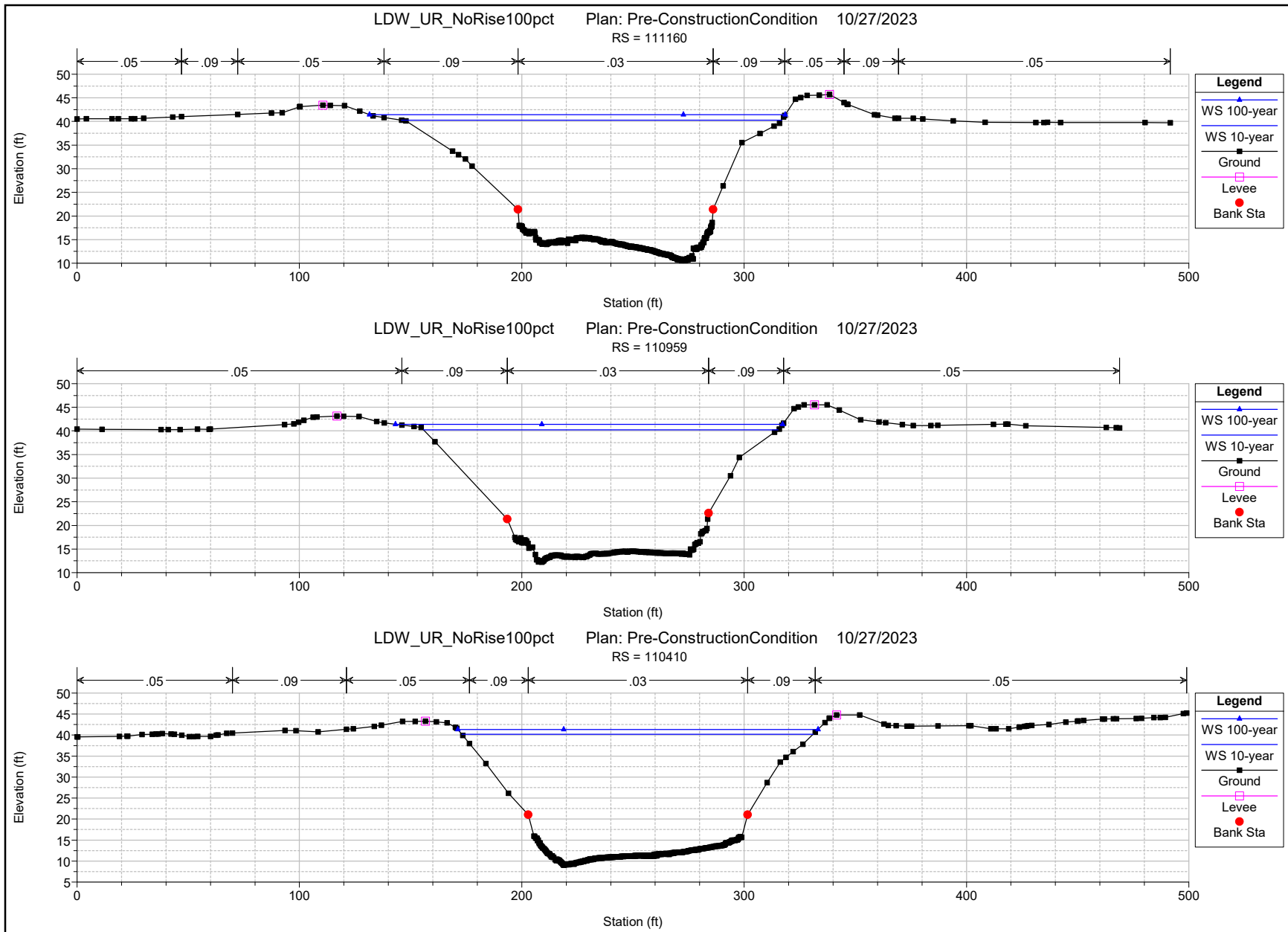


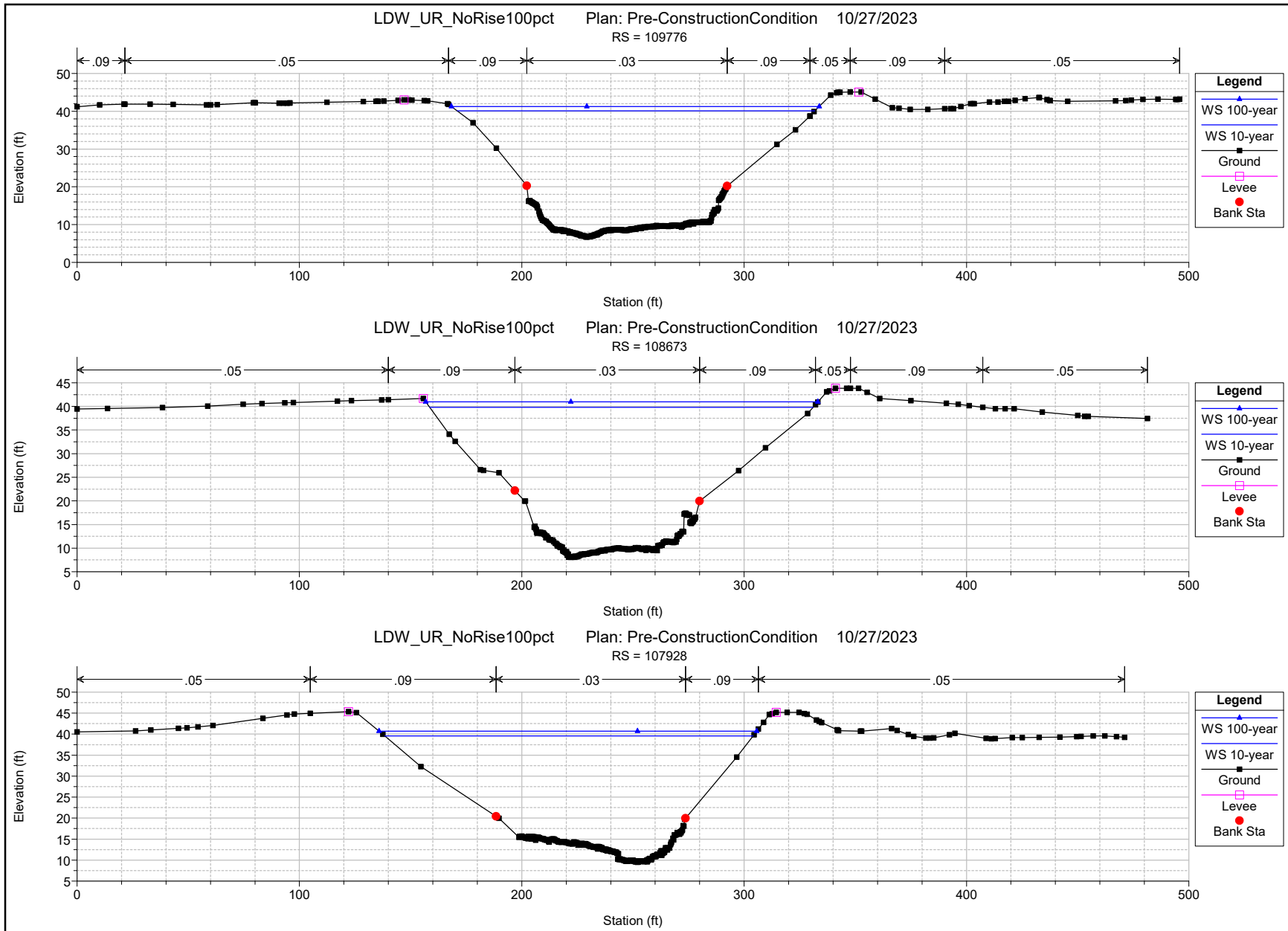


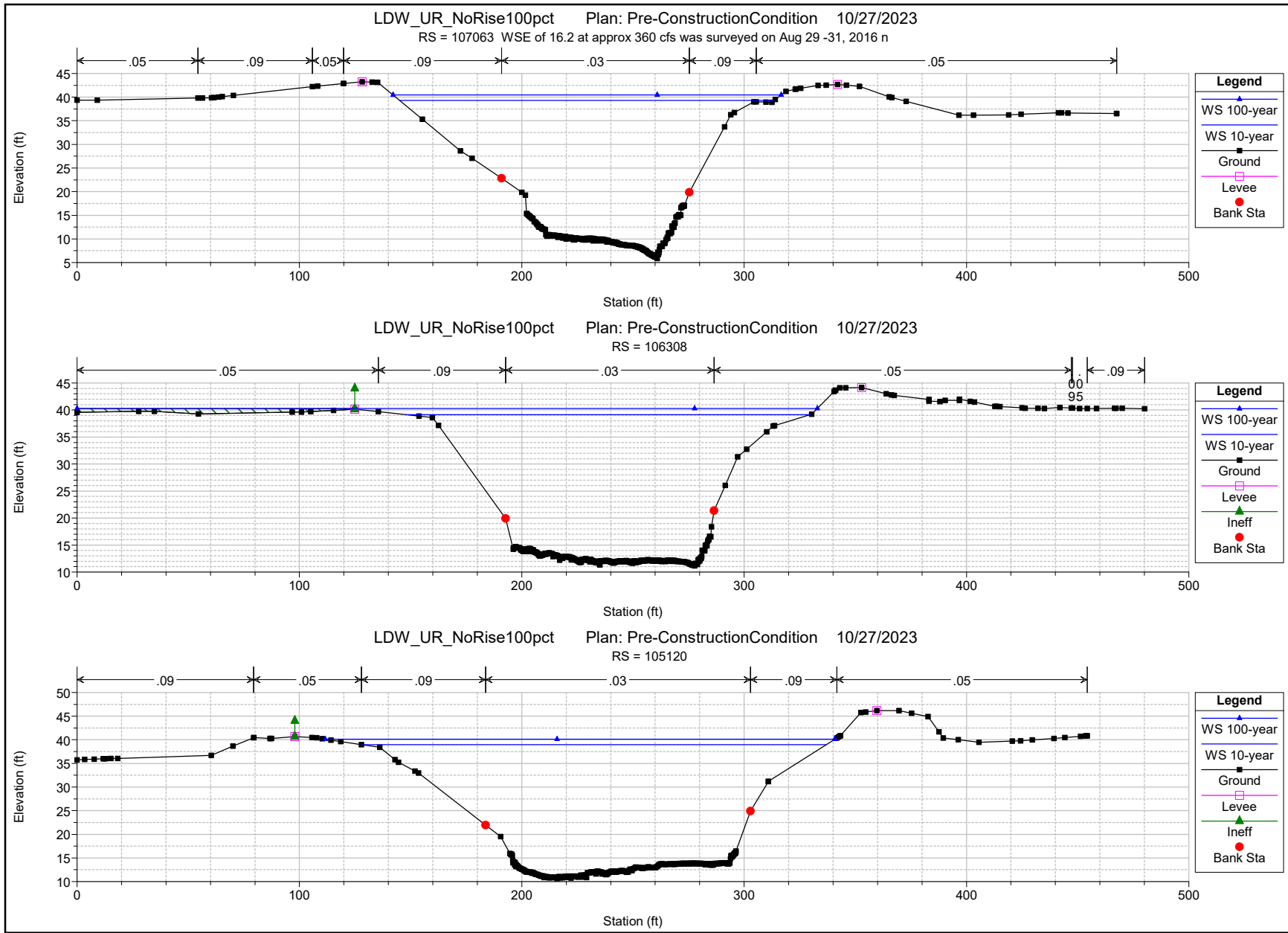


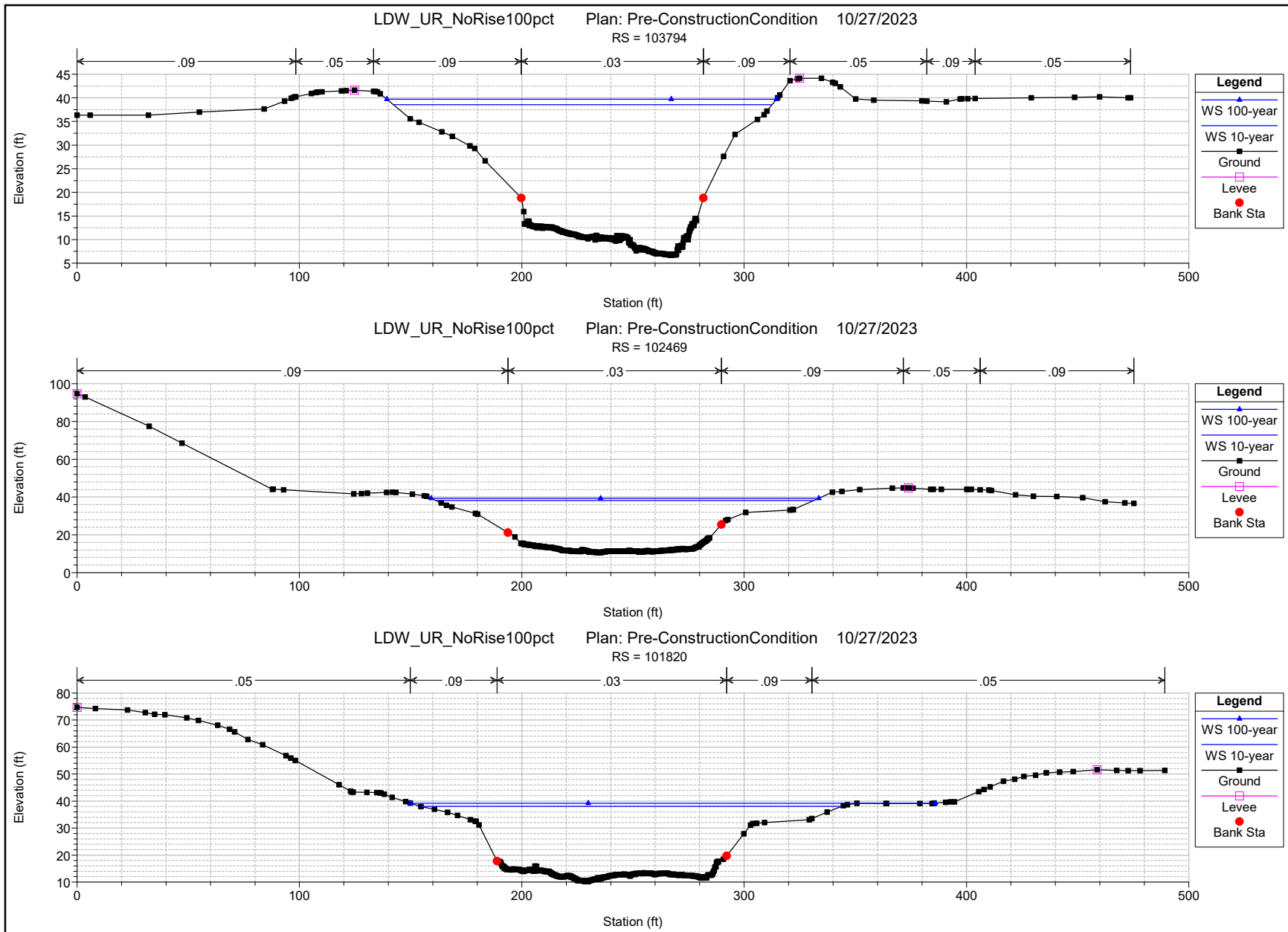


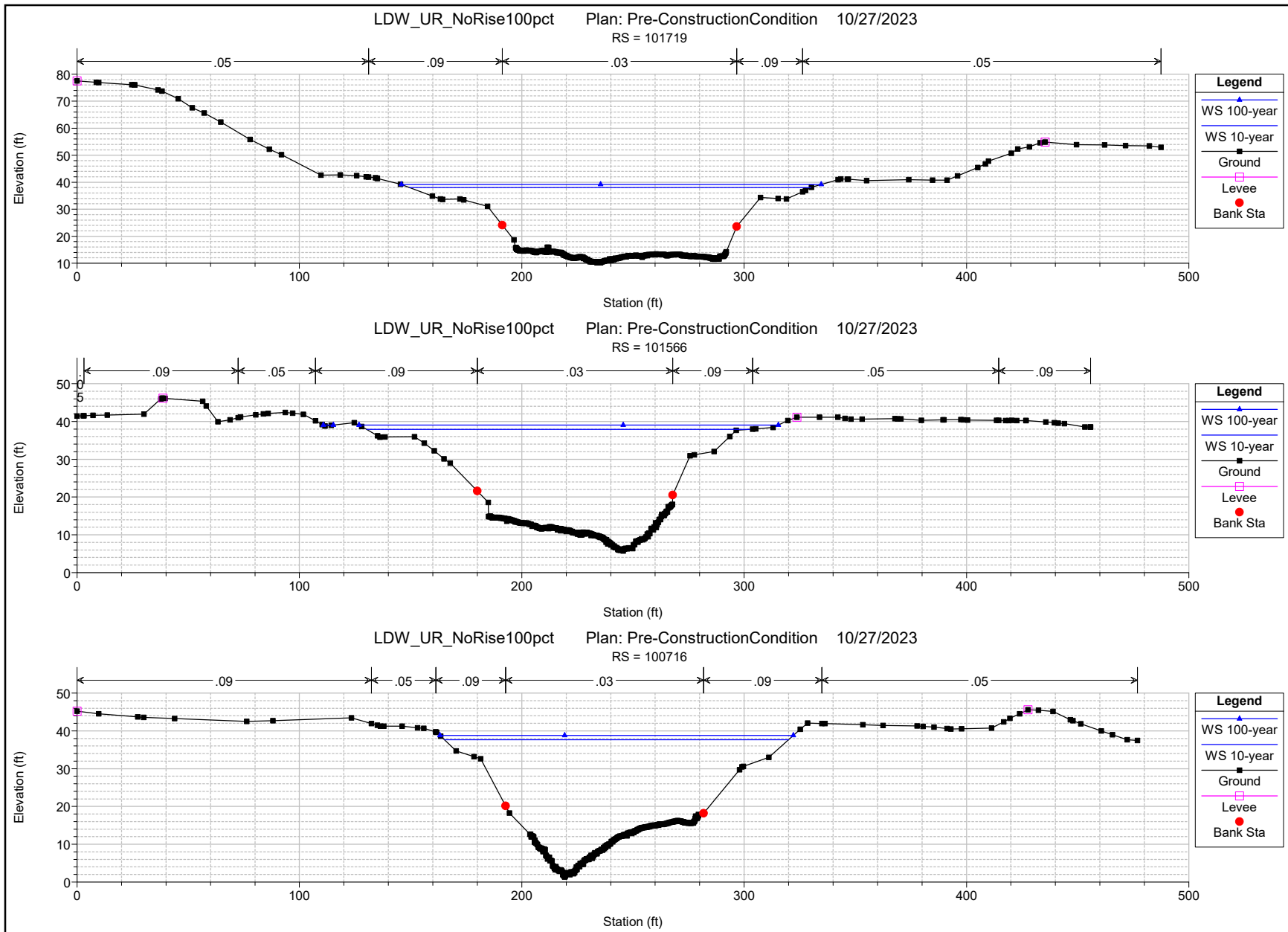


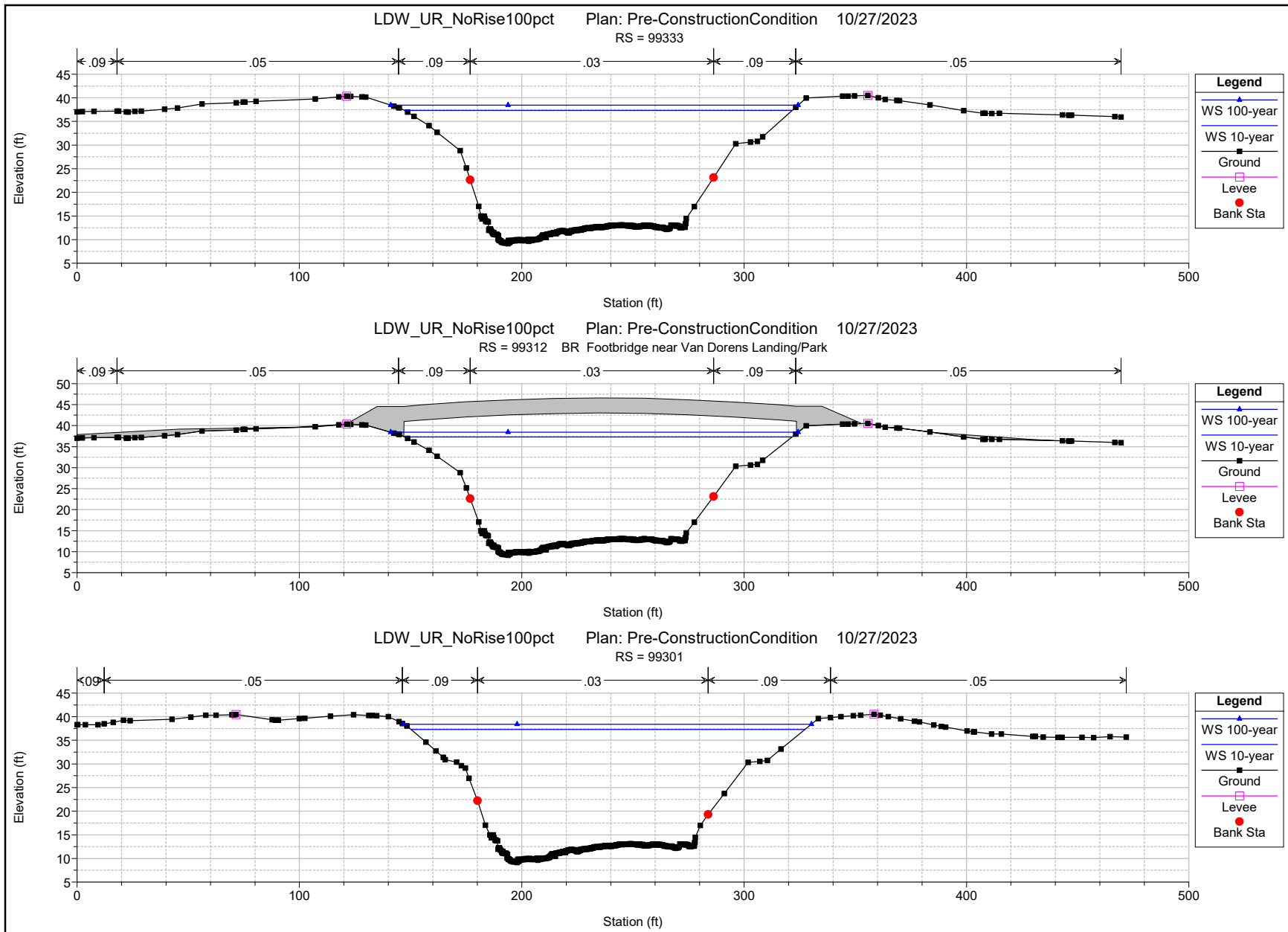


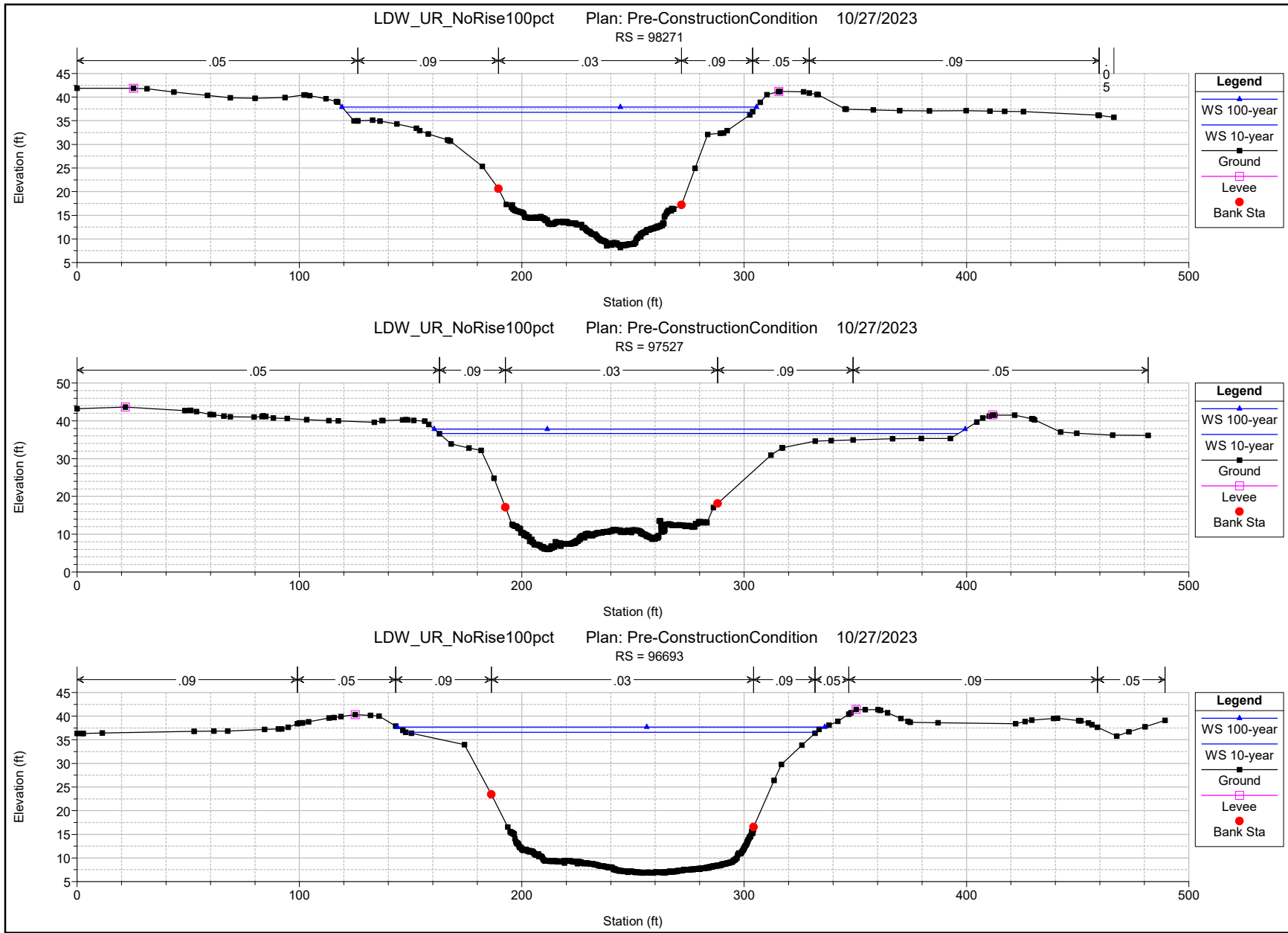




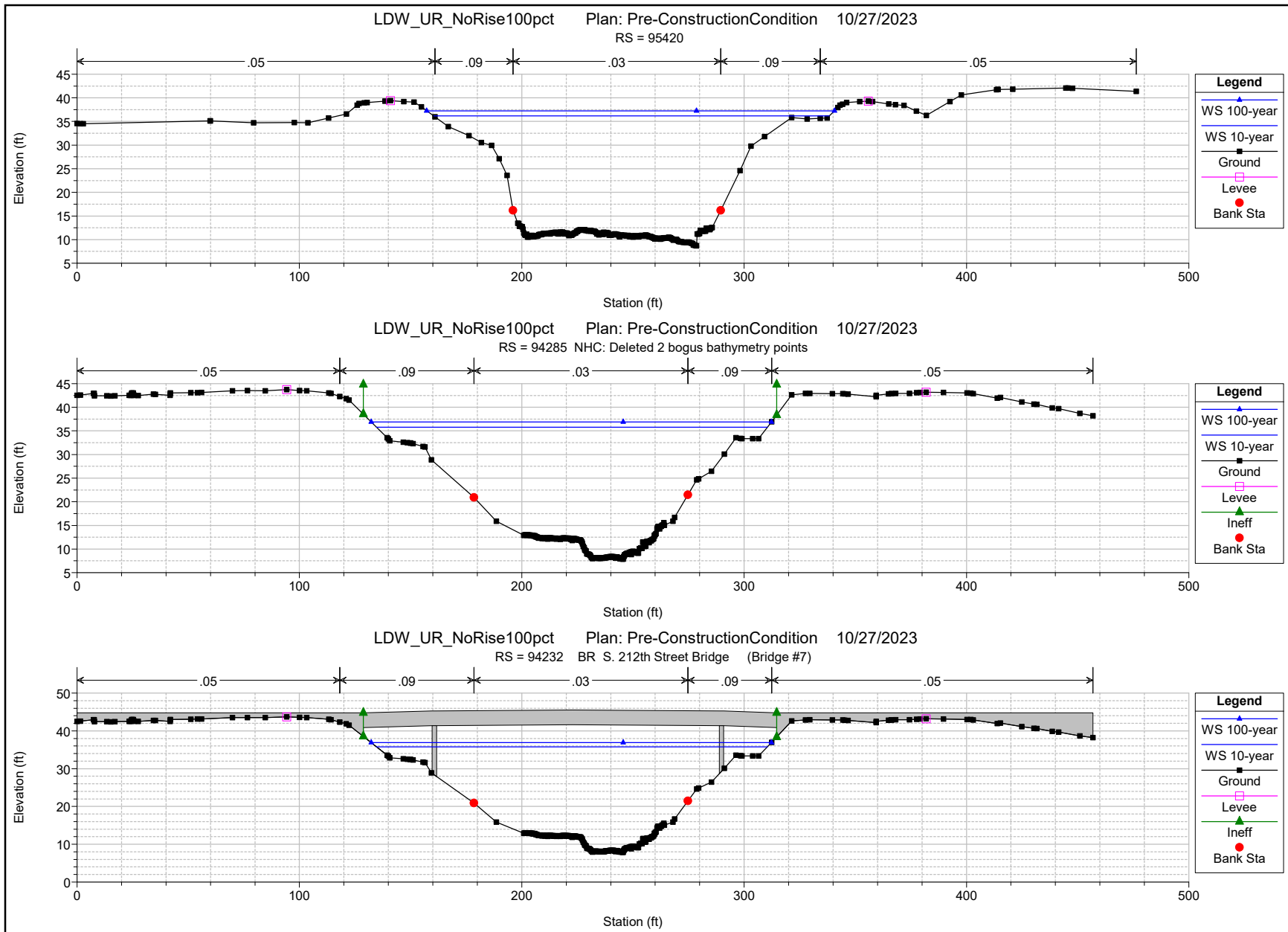


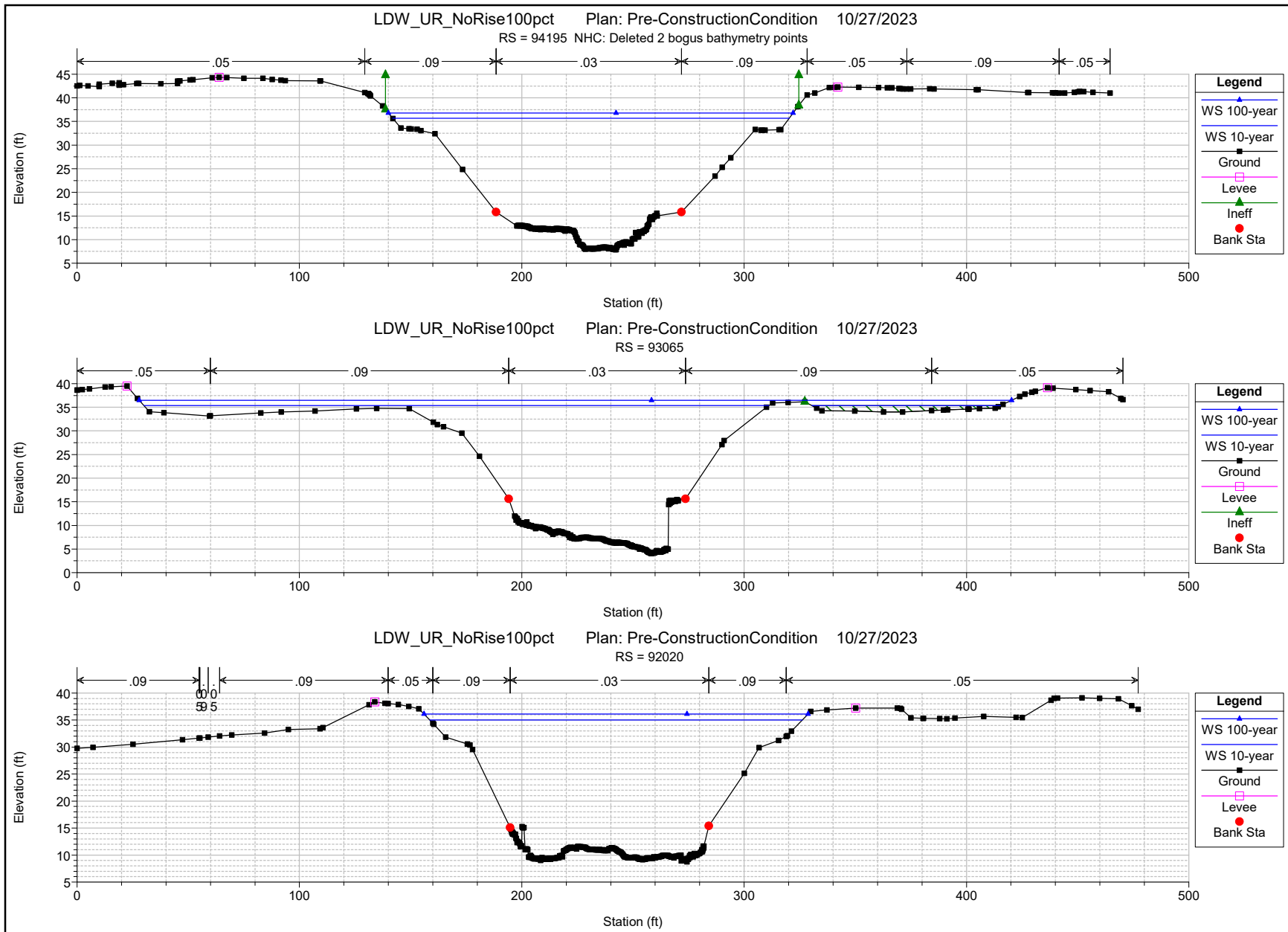


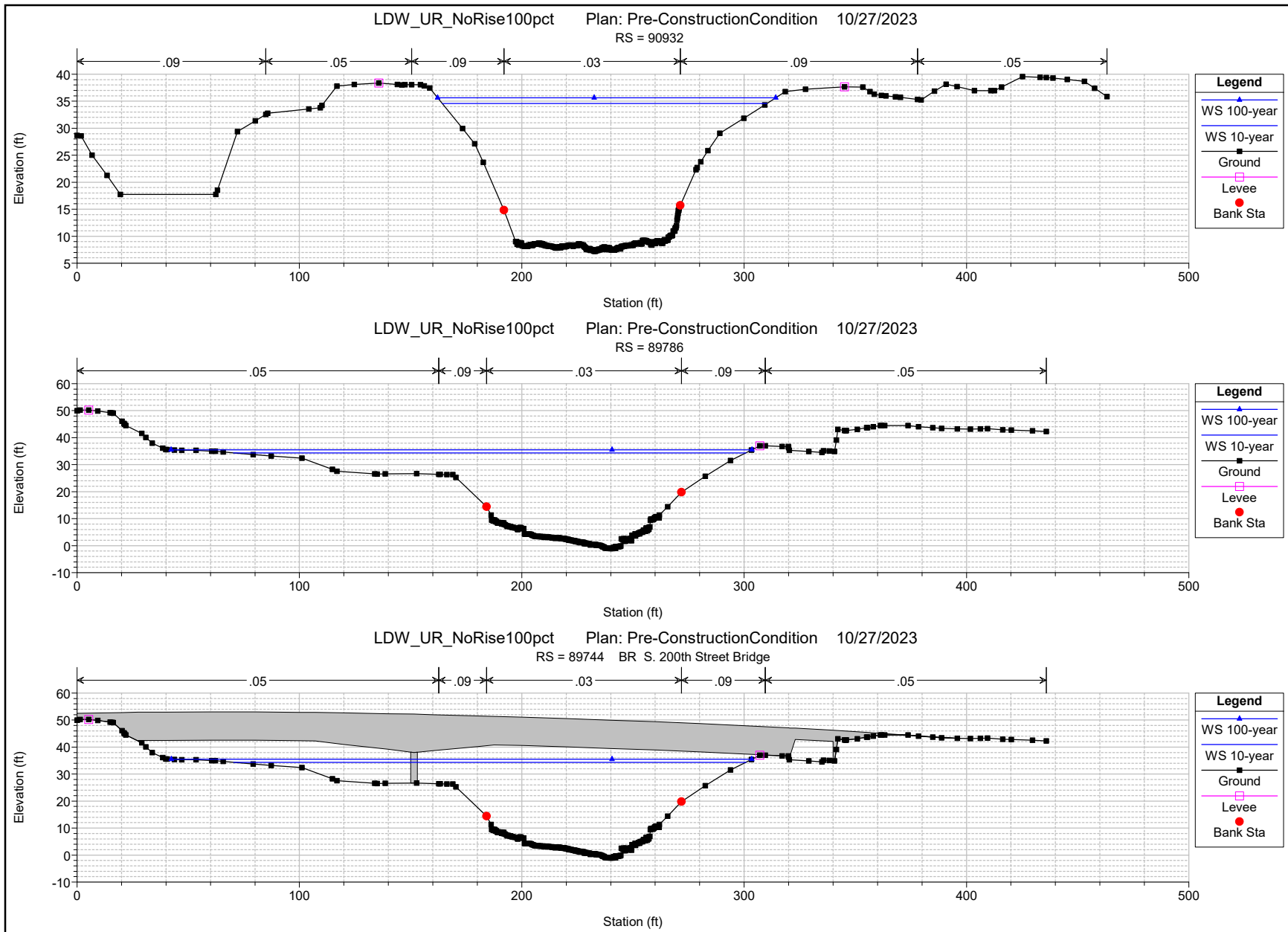


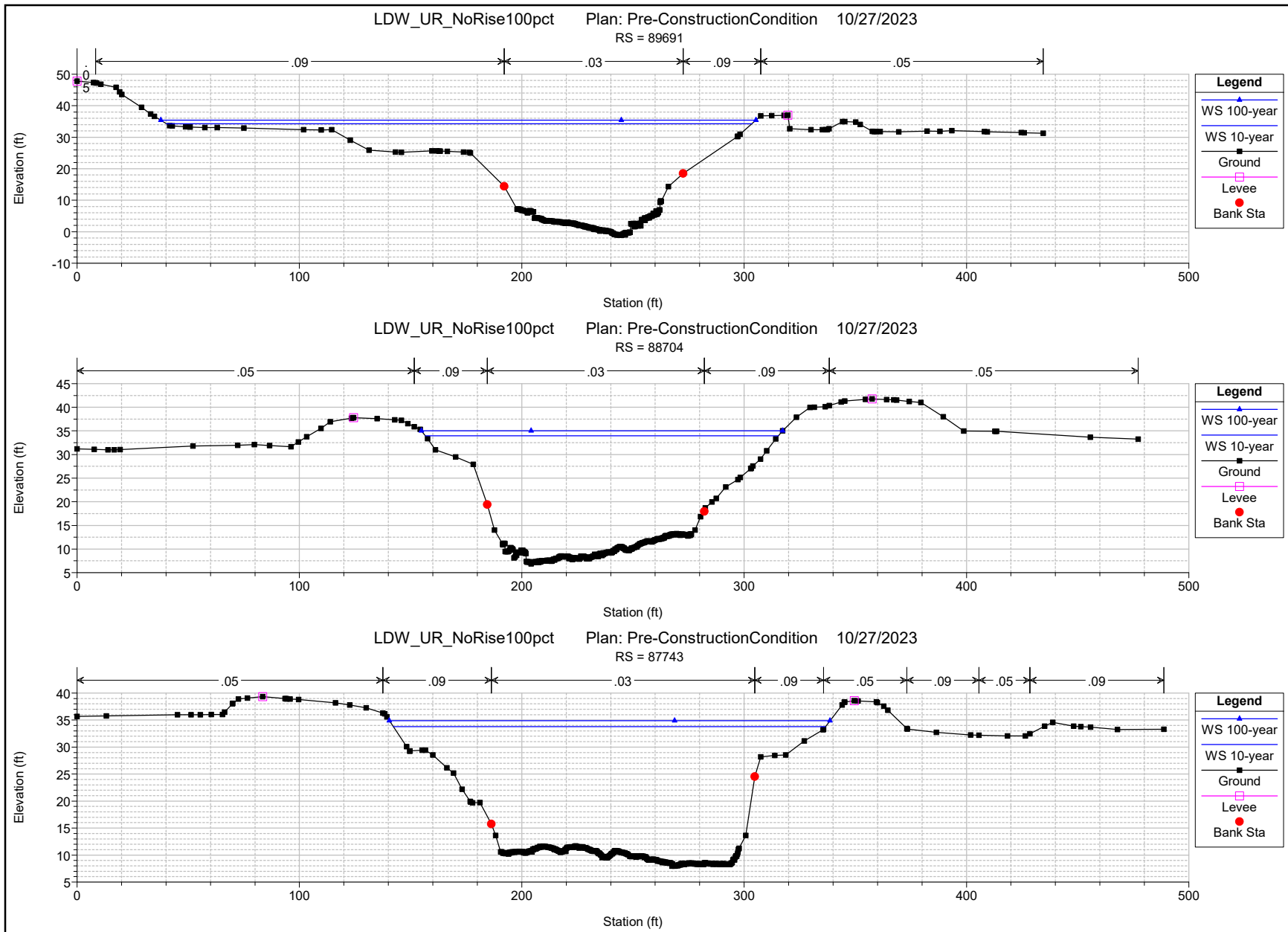


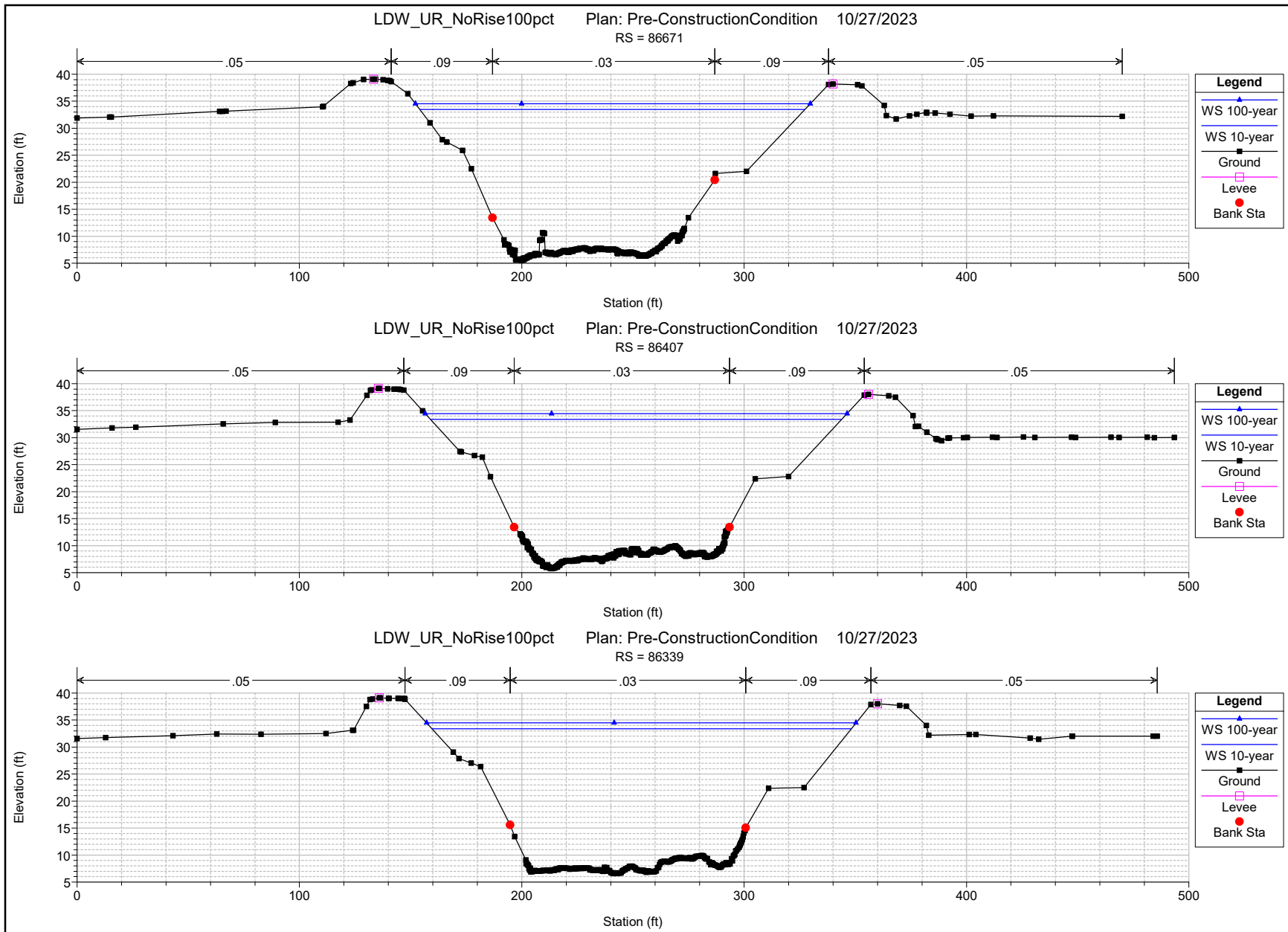


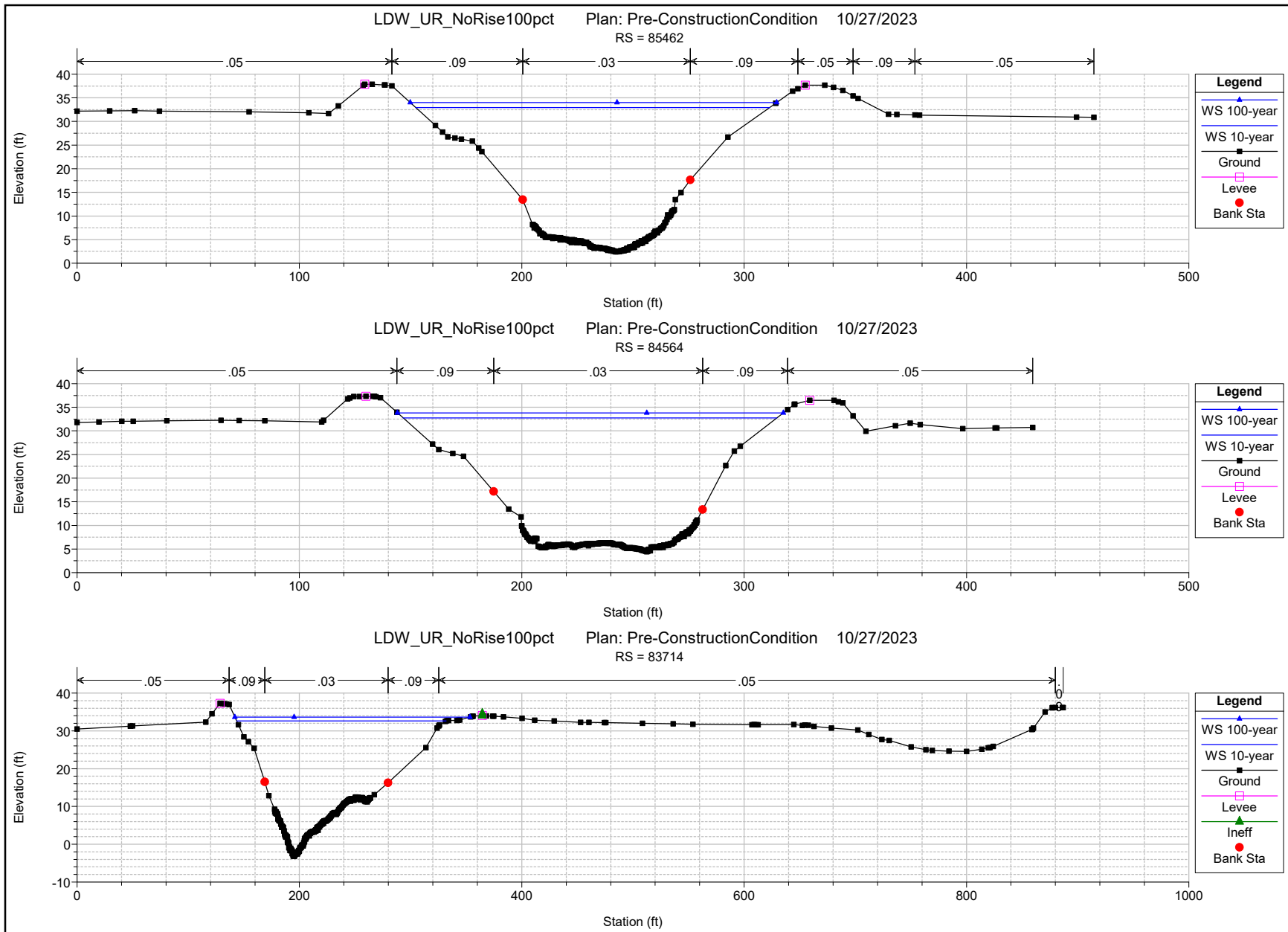


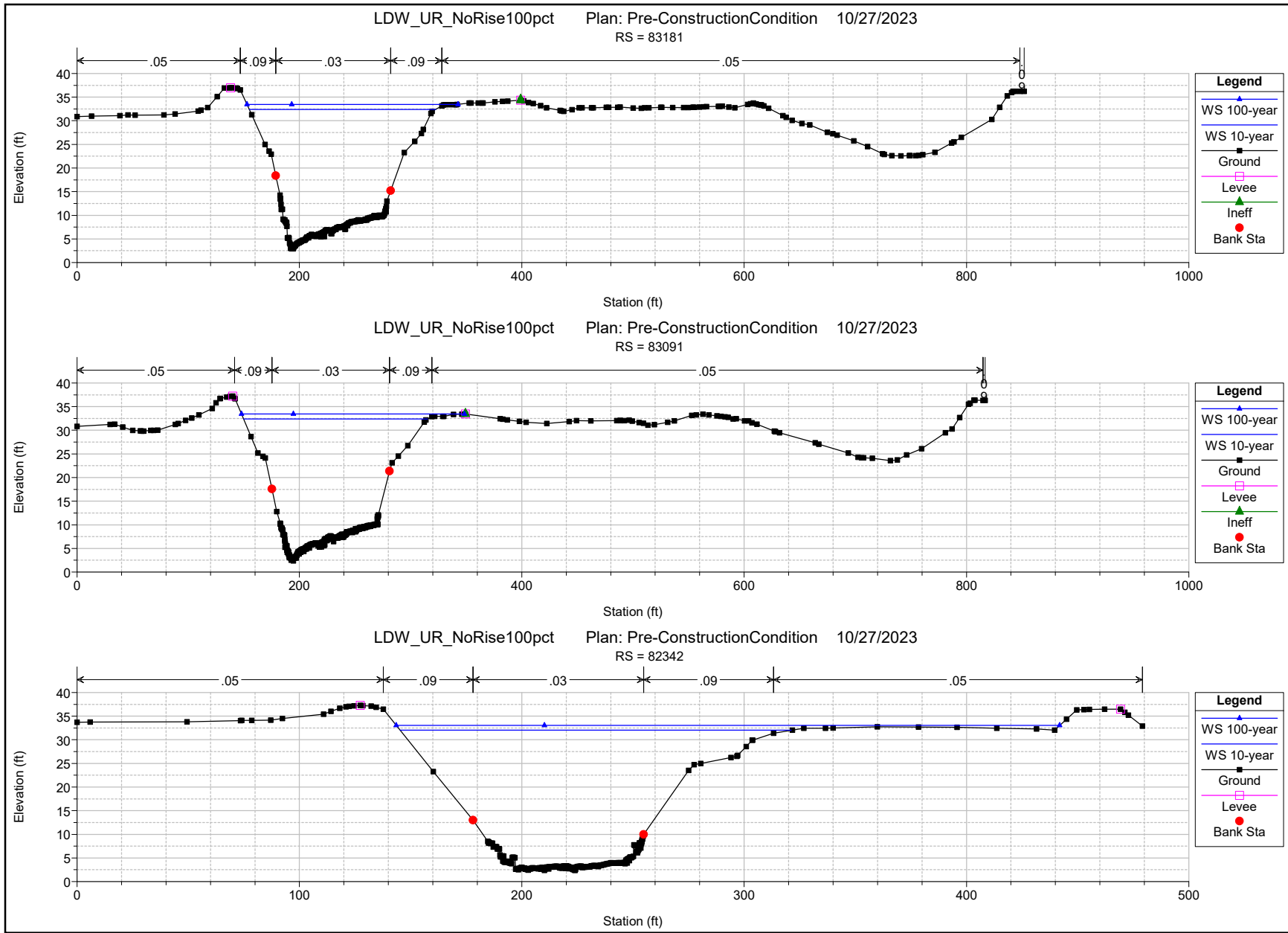


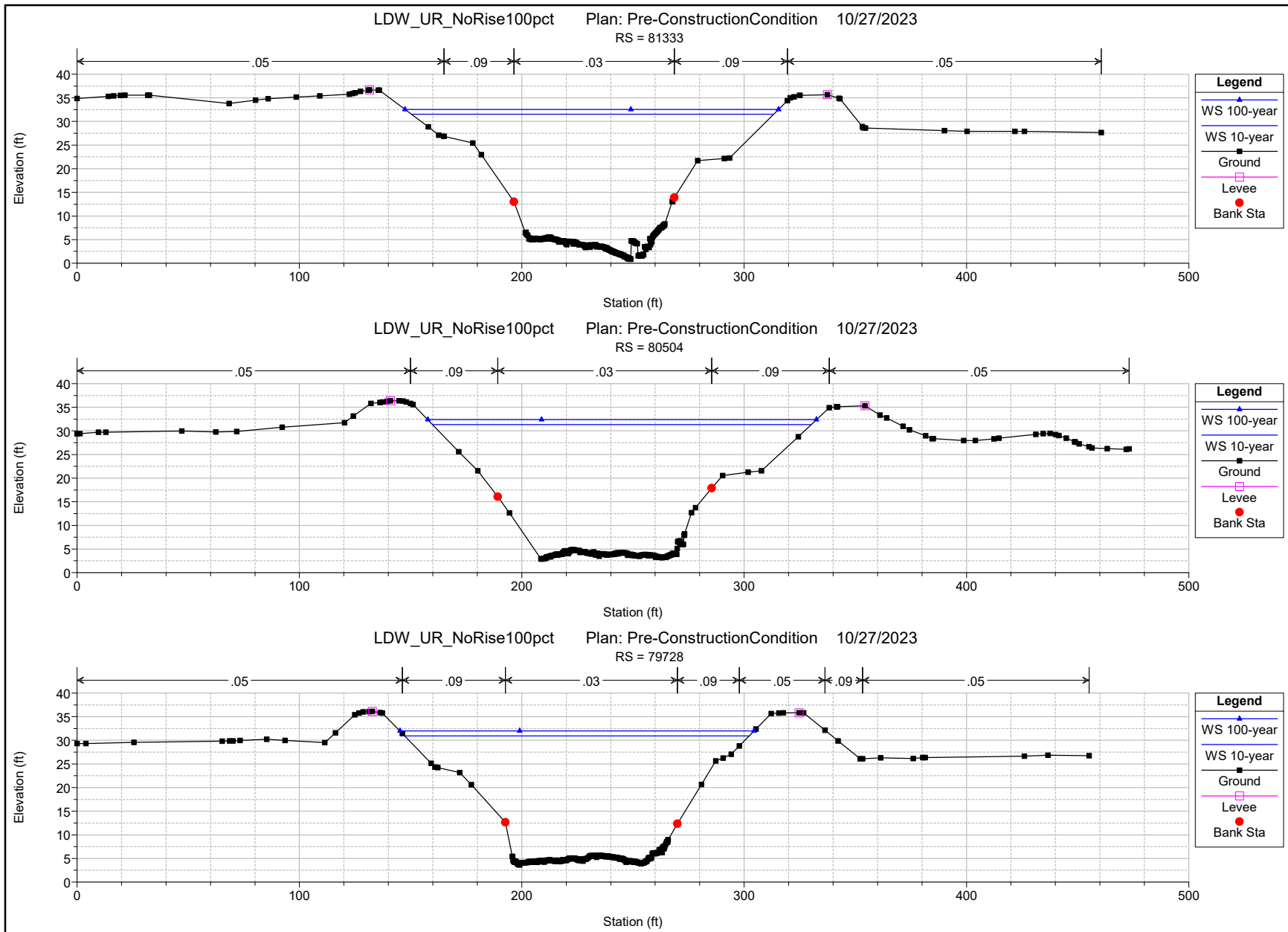




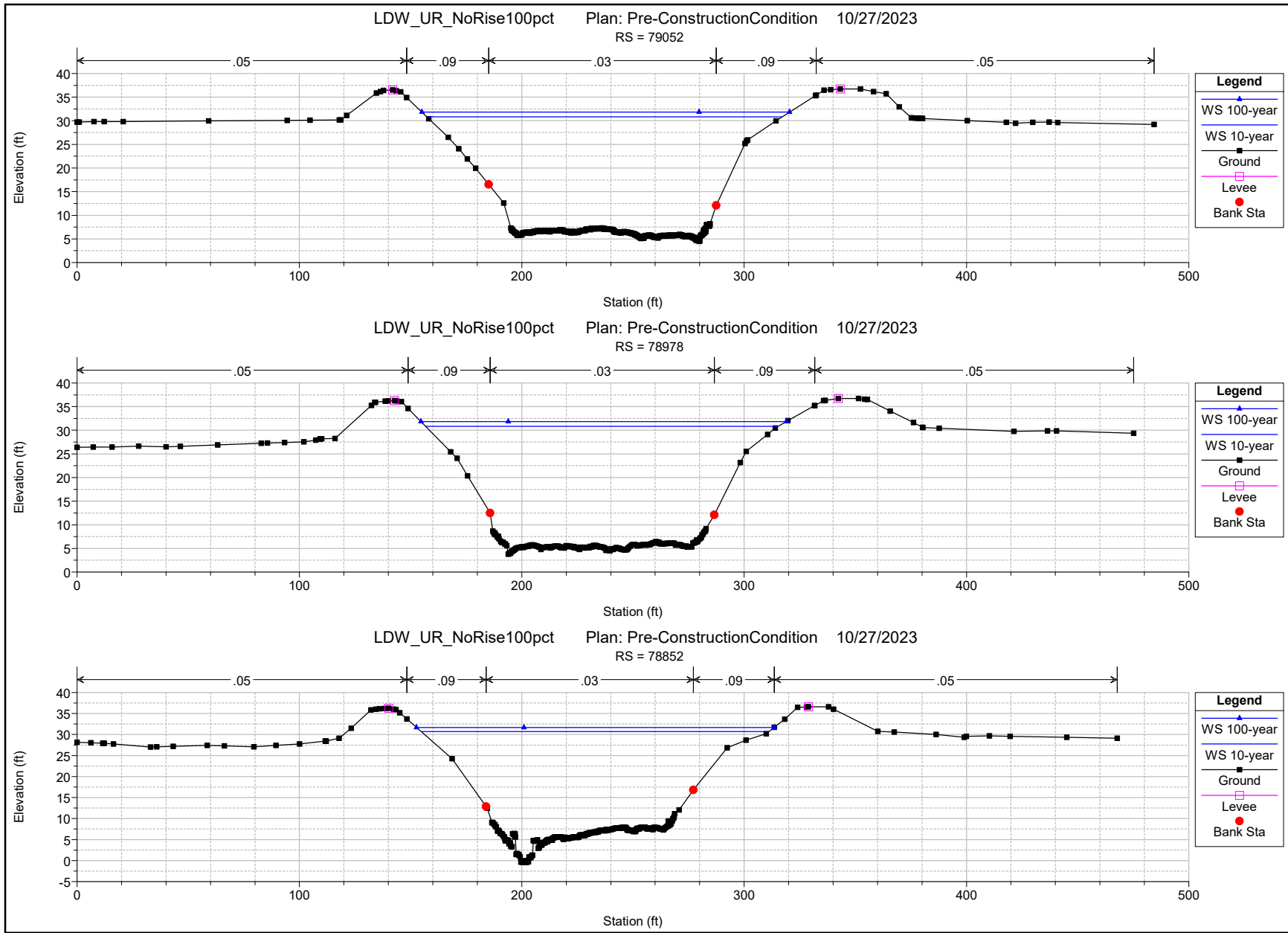


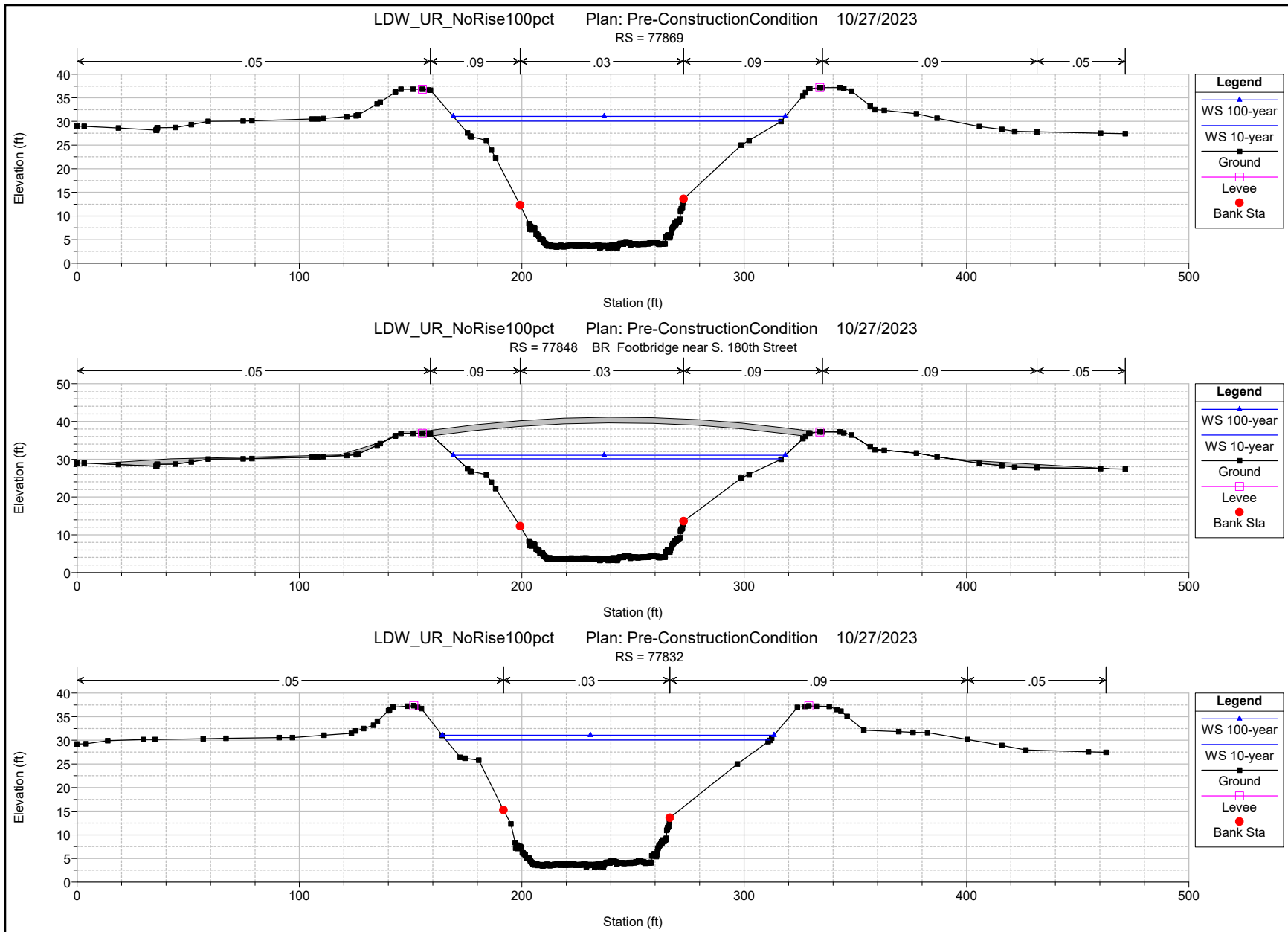


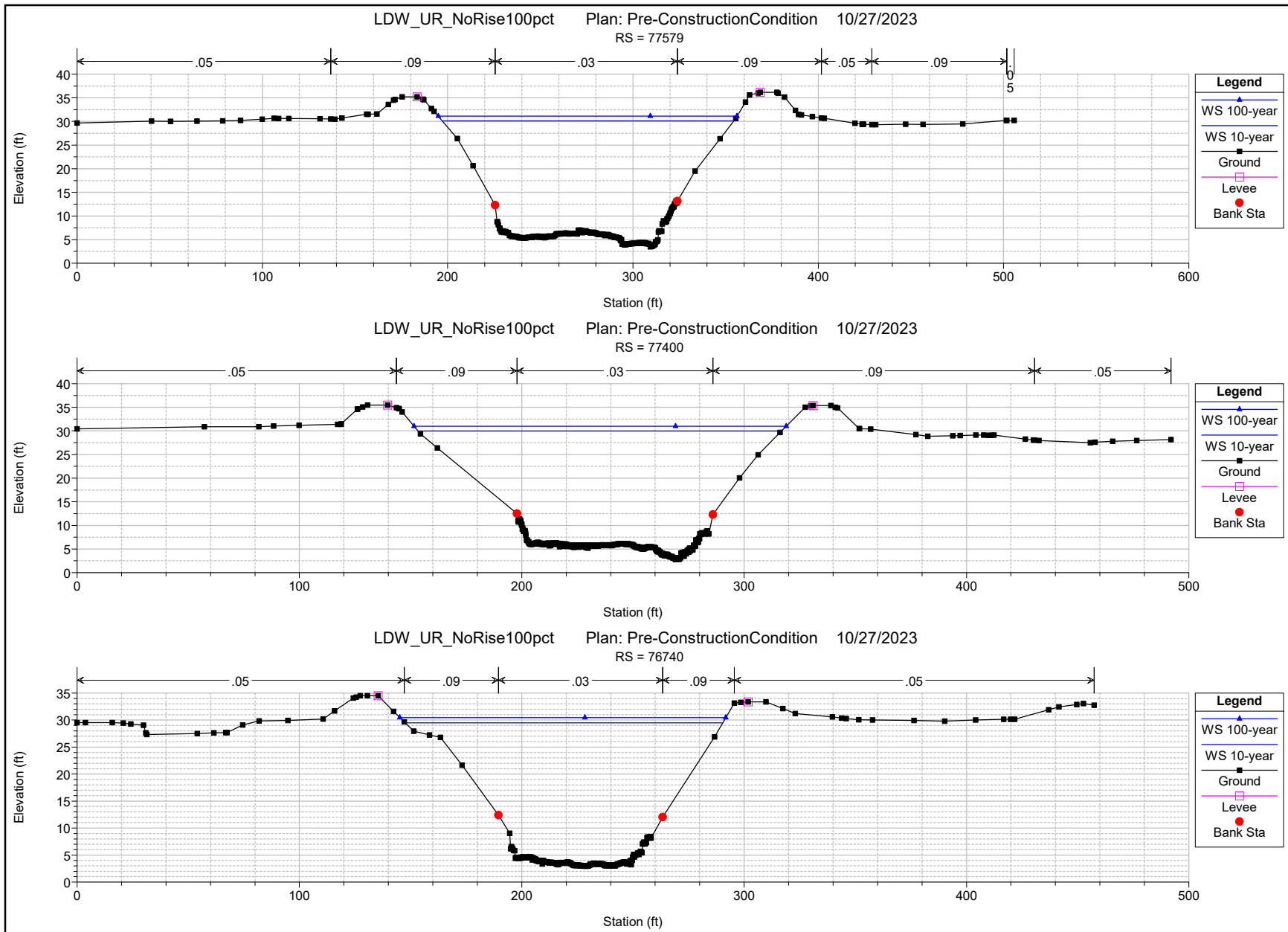


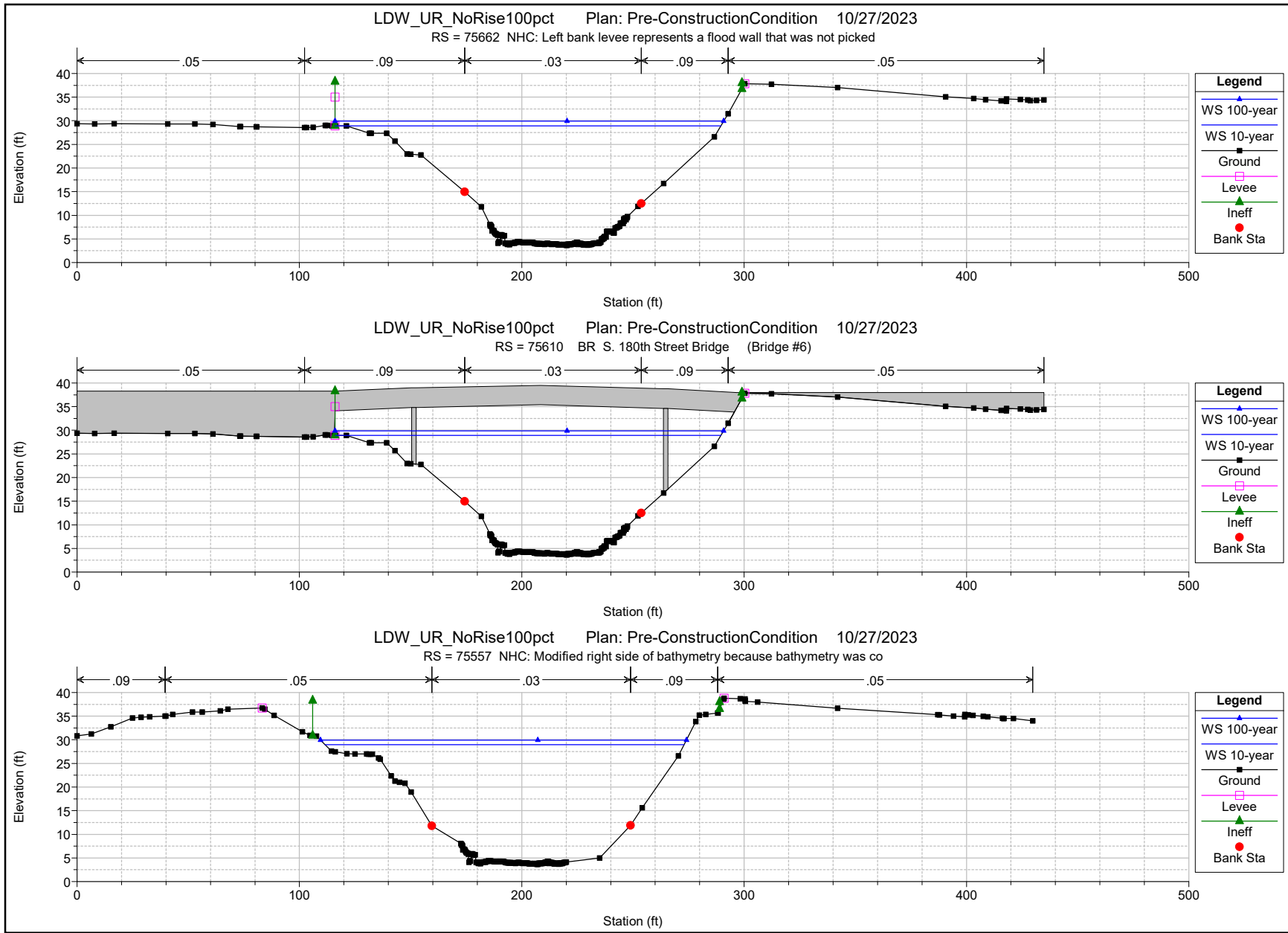


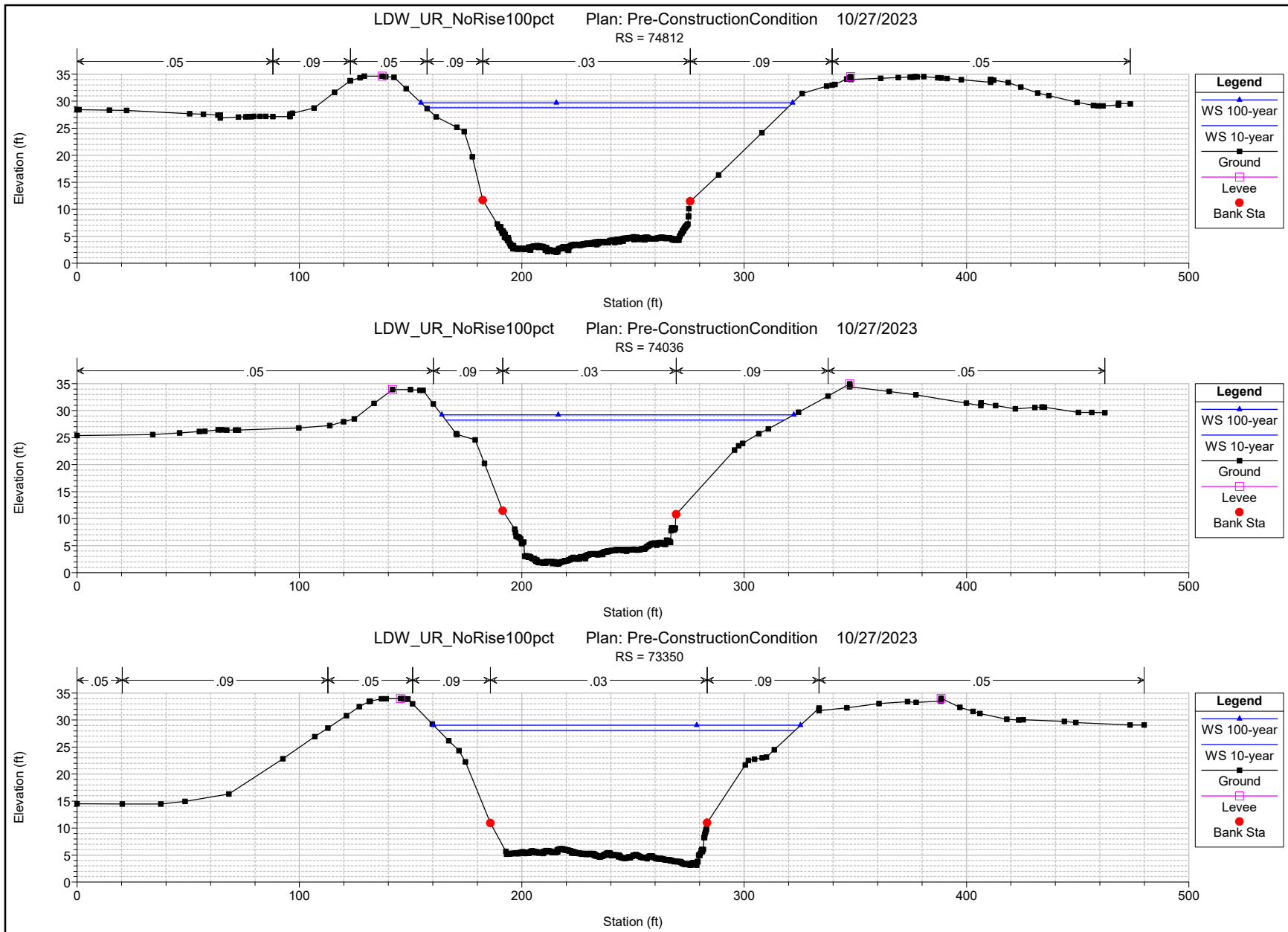


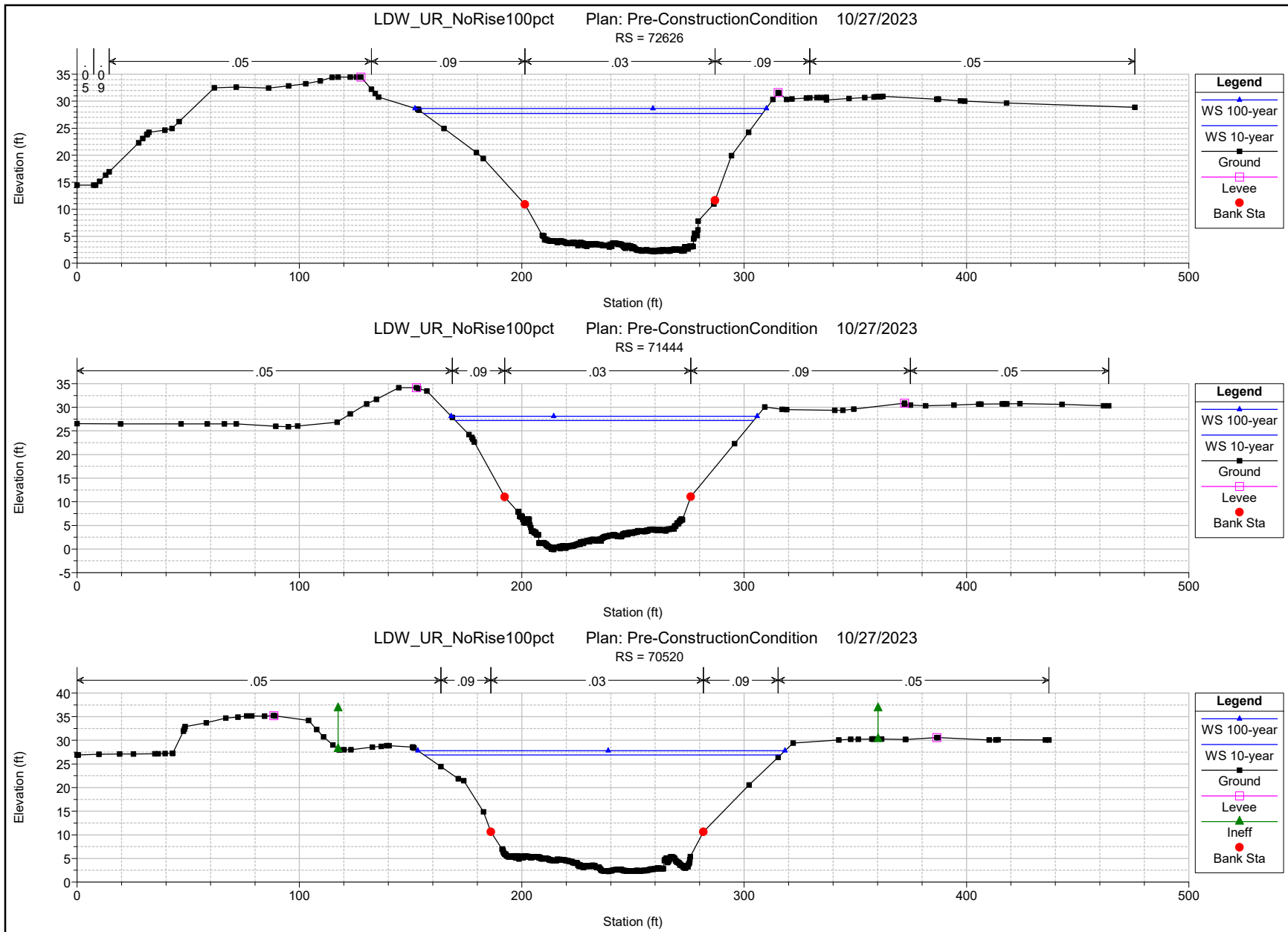


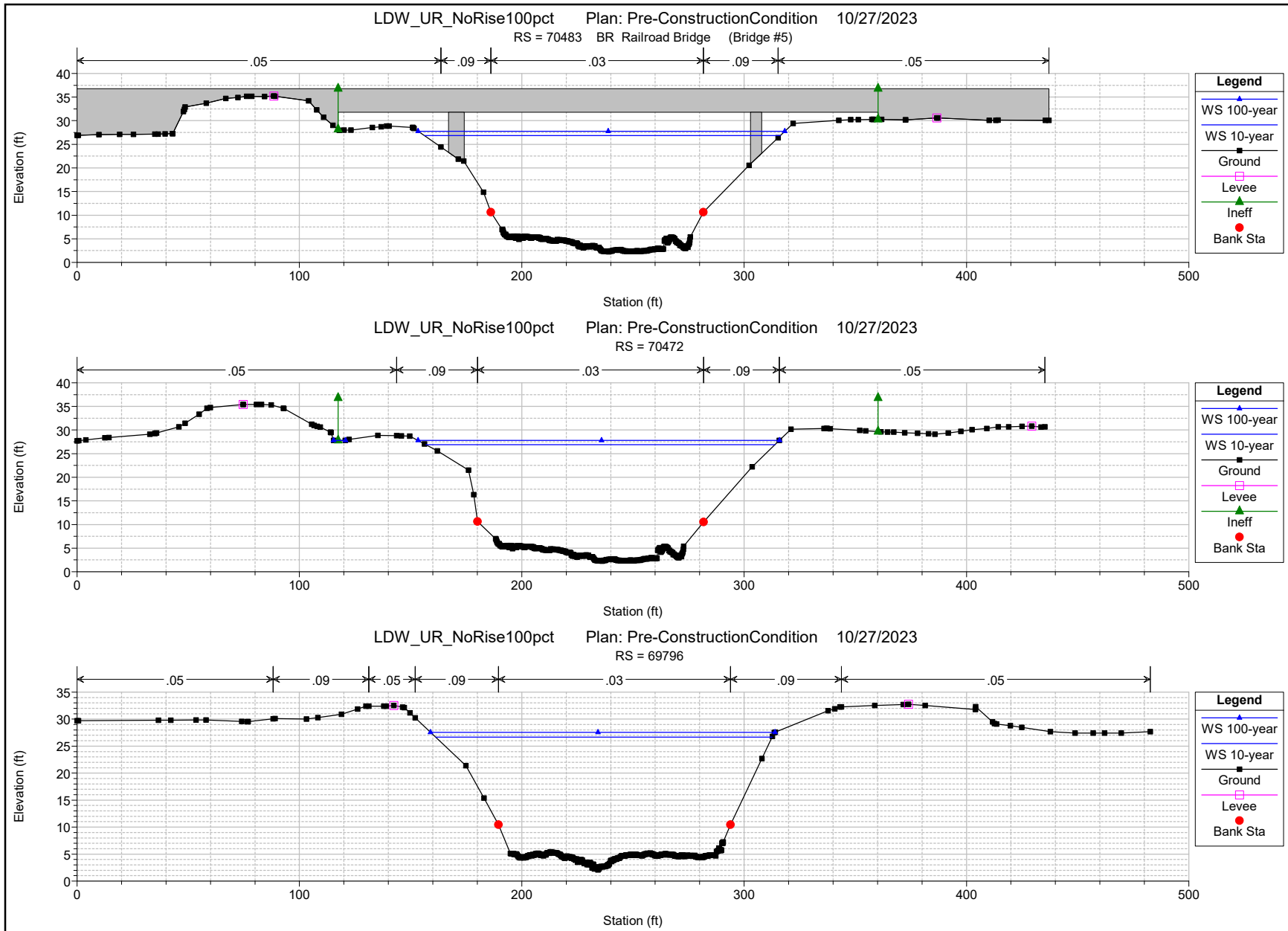


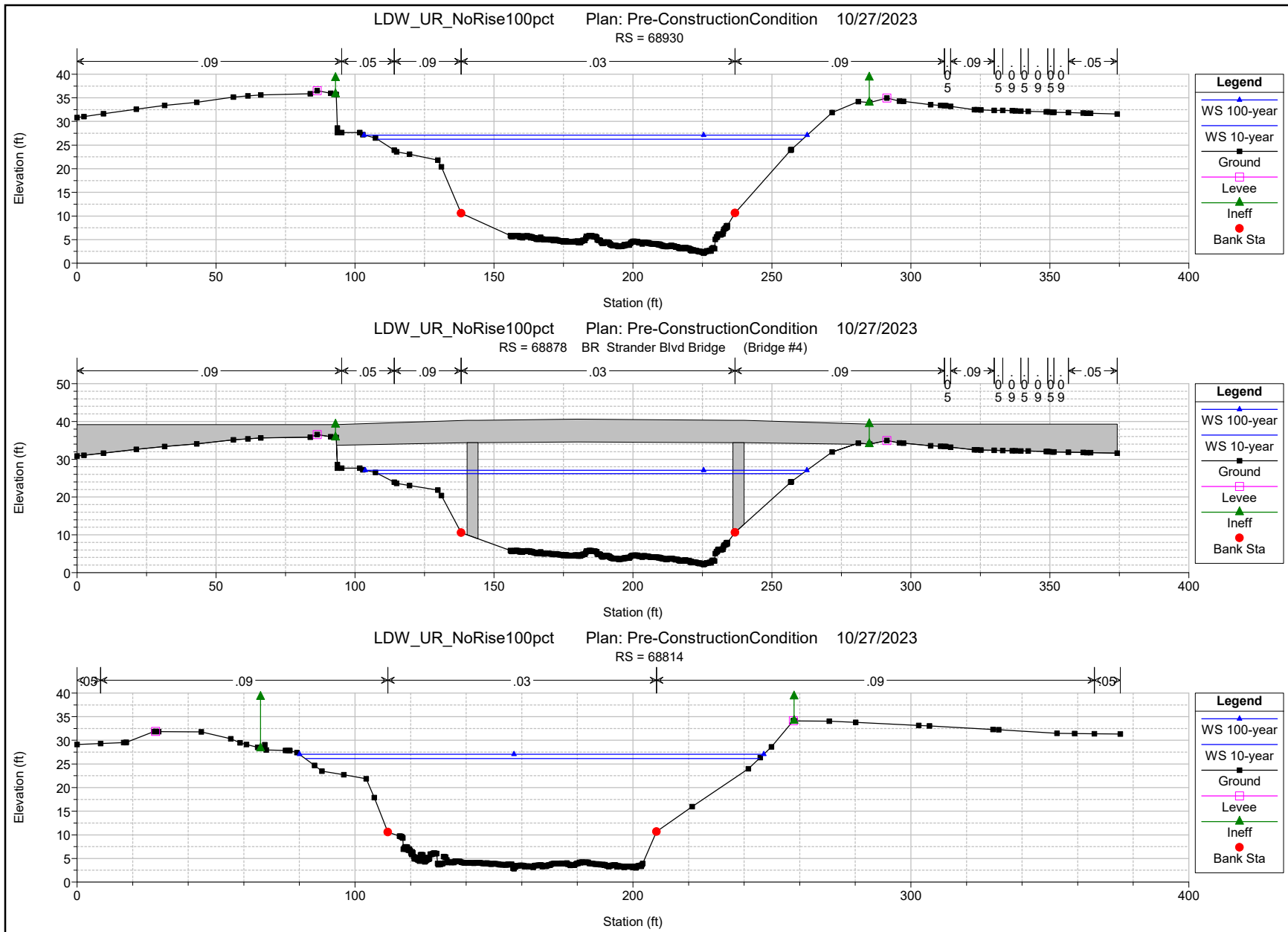




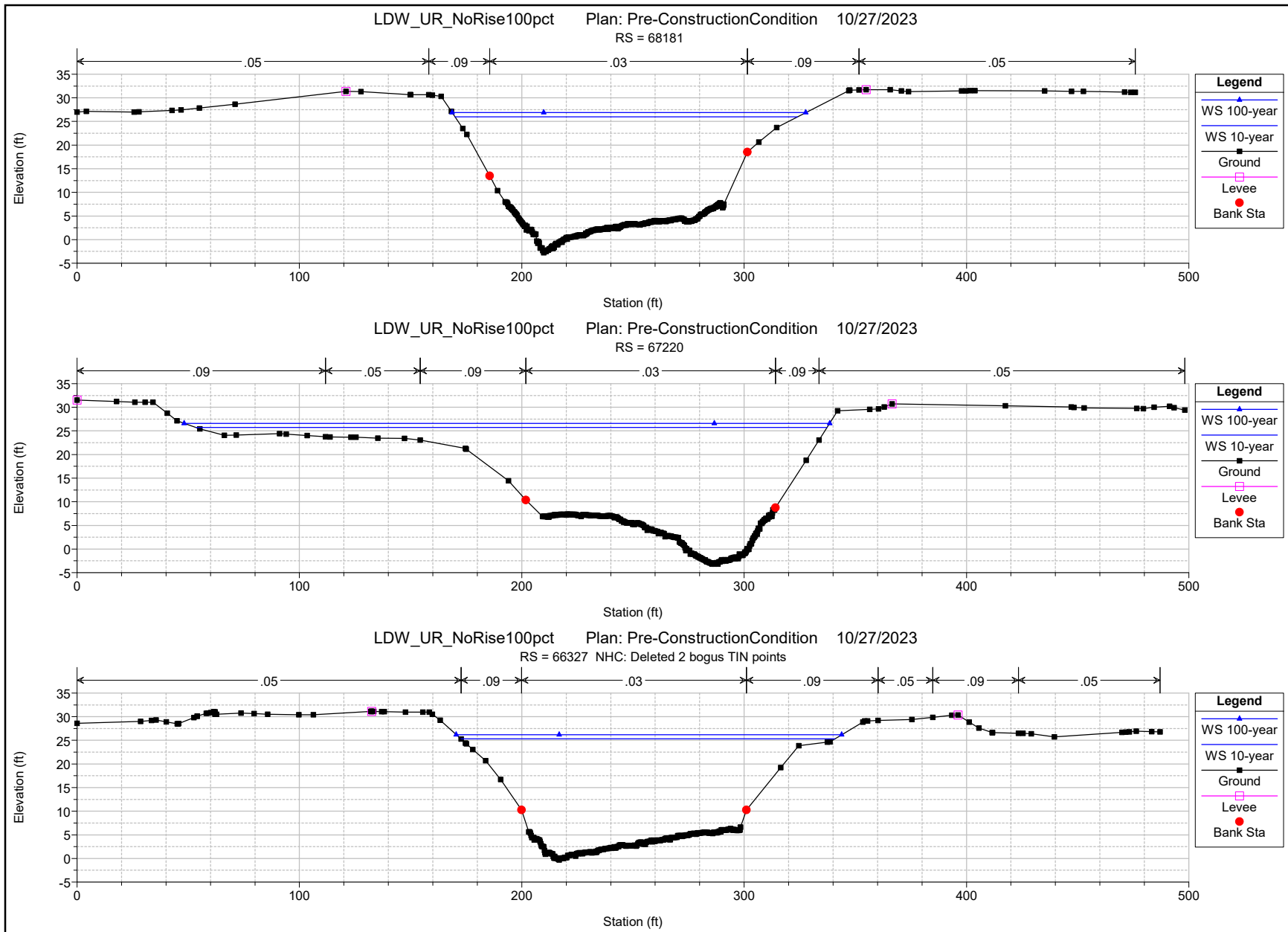


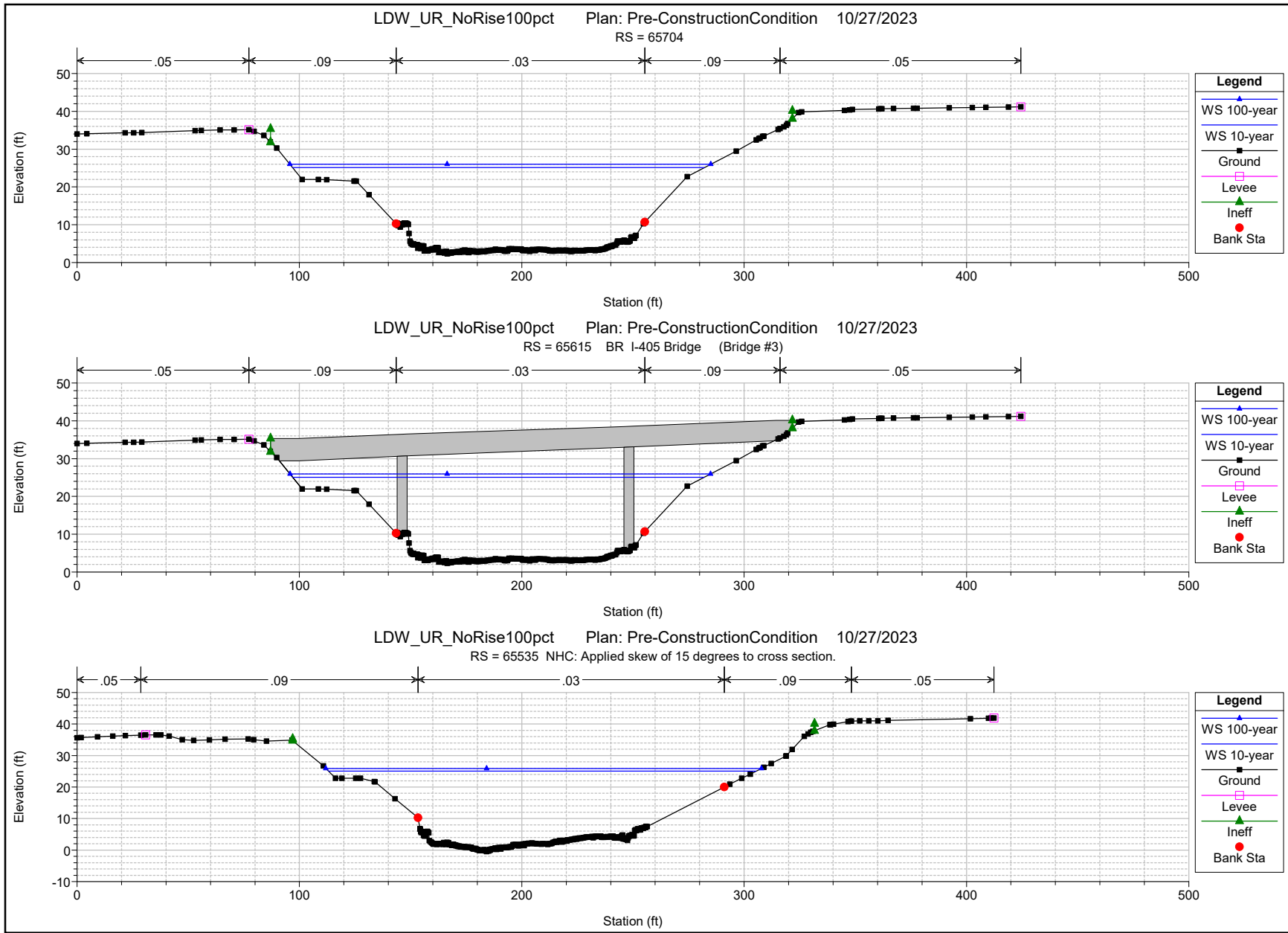




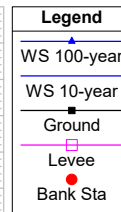
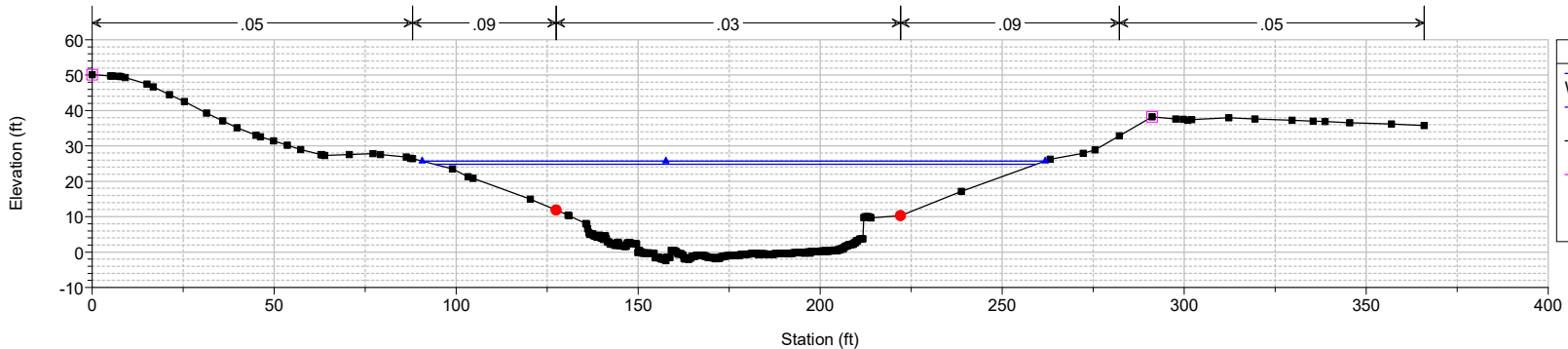




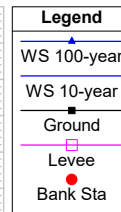
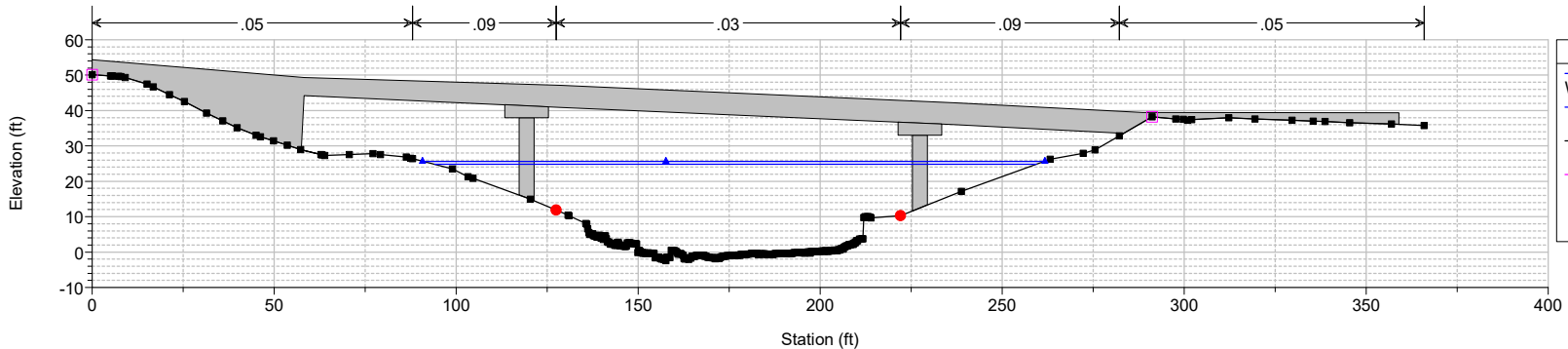




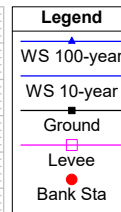
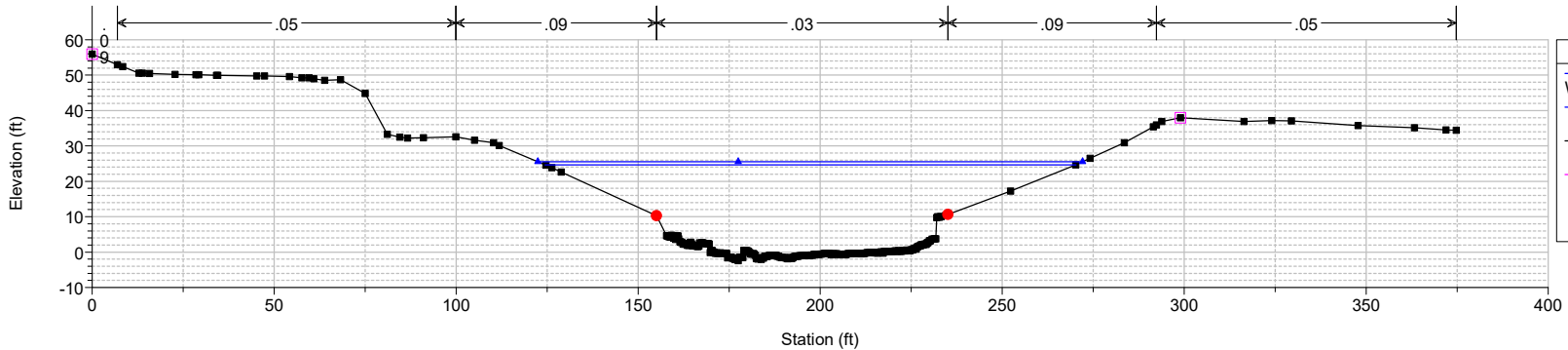
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 65366

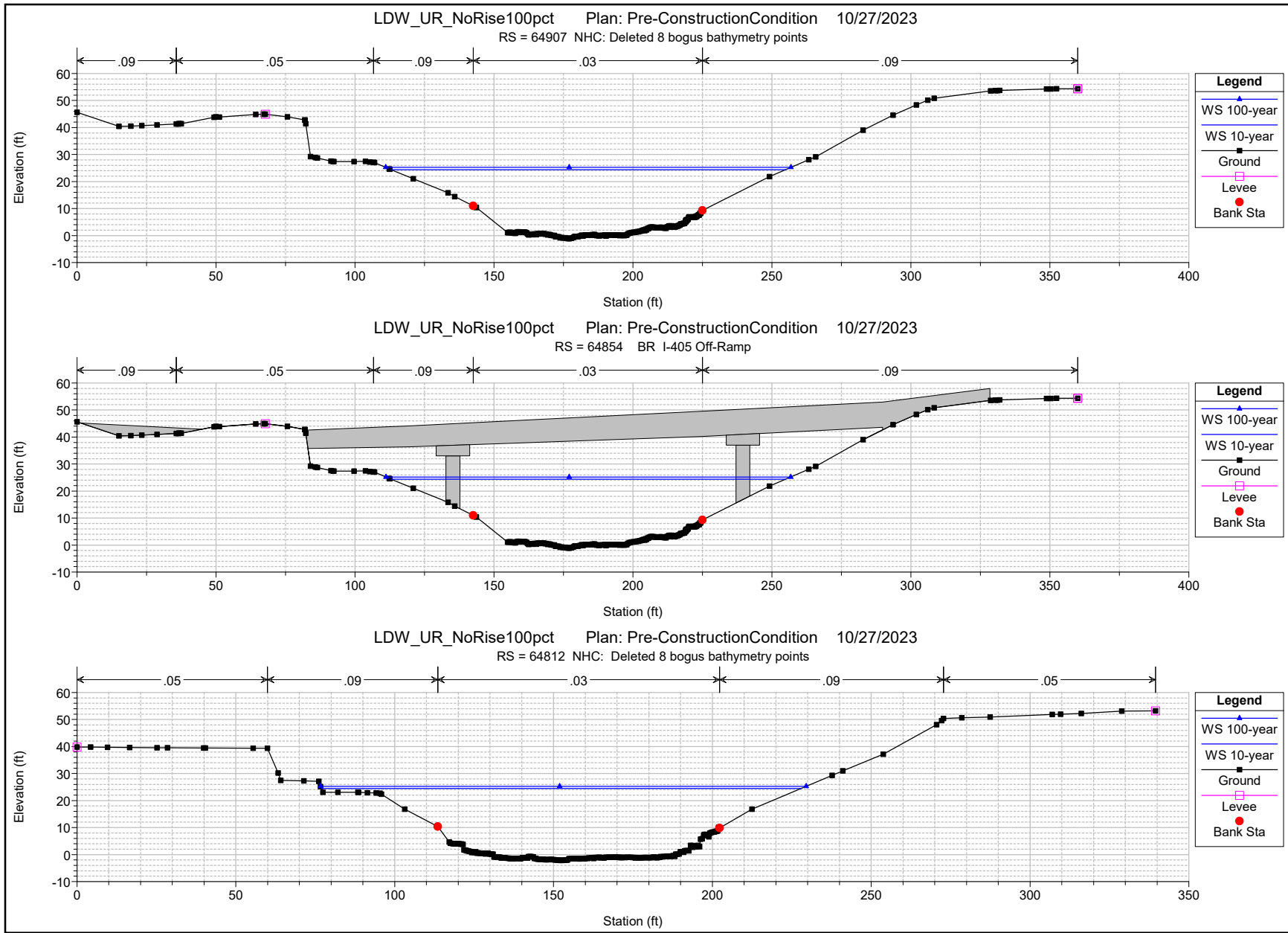


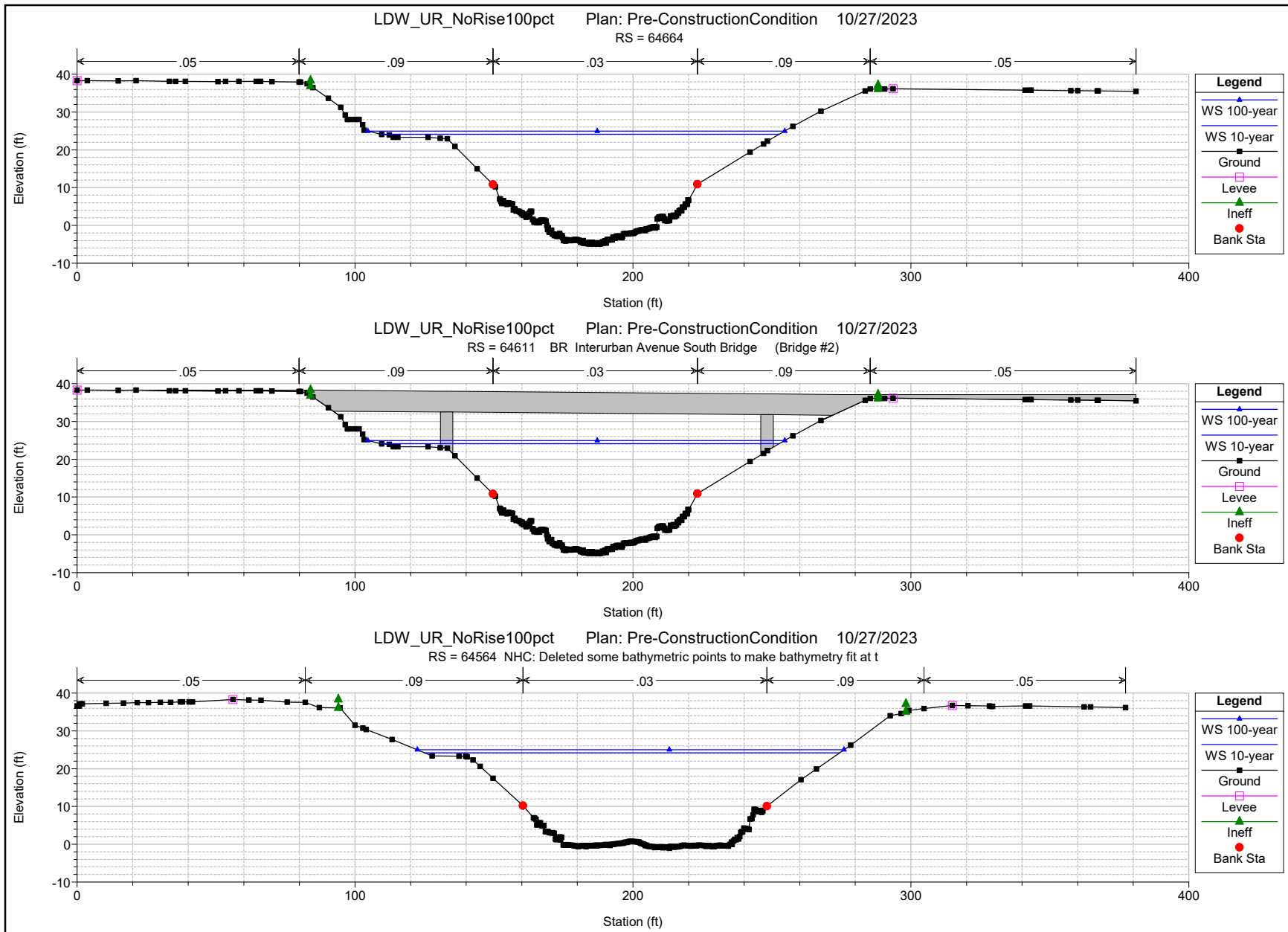
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 65314 BR Southcenter Blvd.

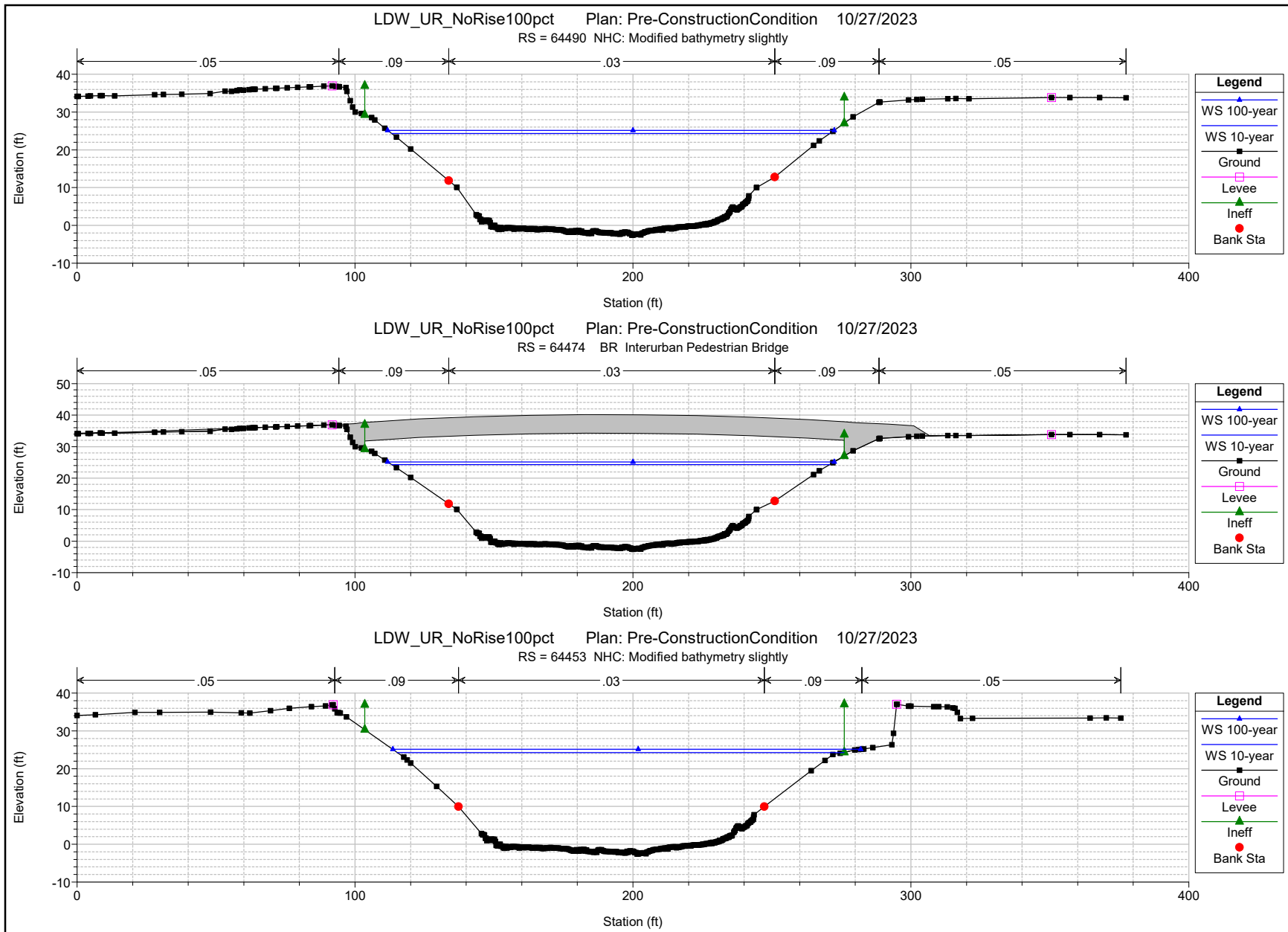


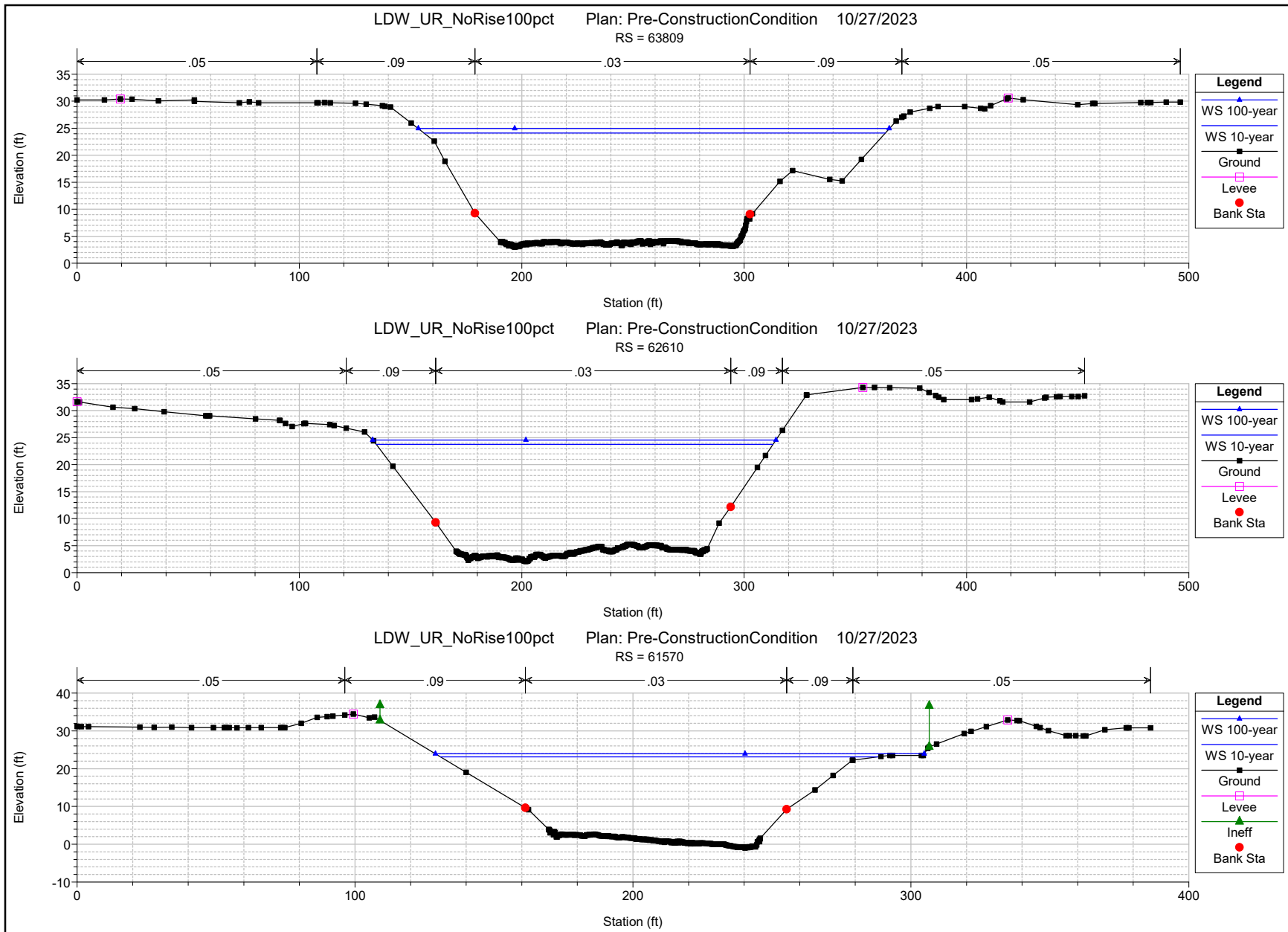
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 65277

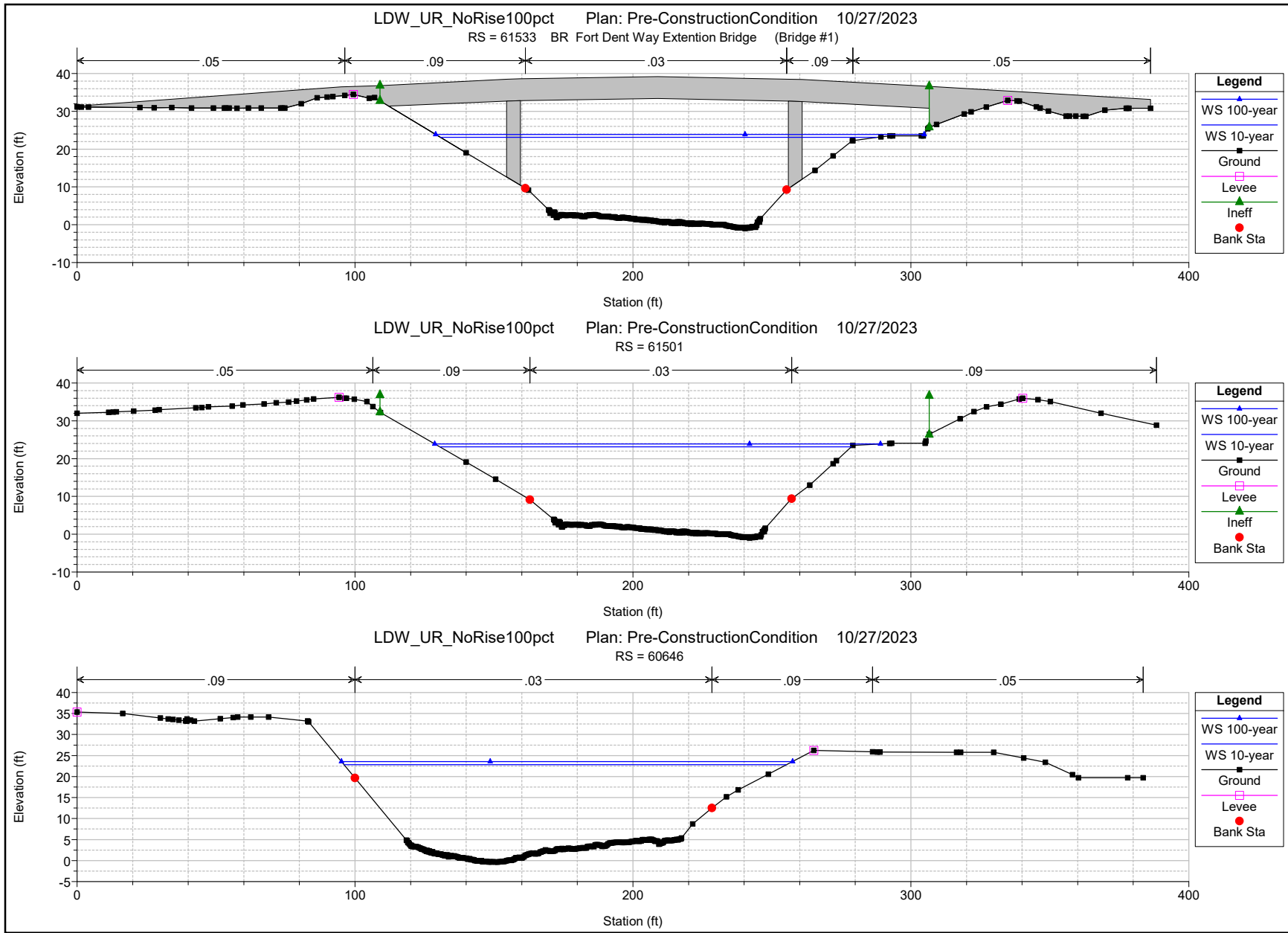




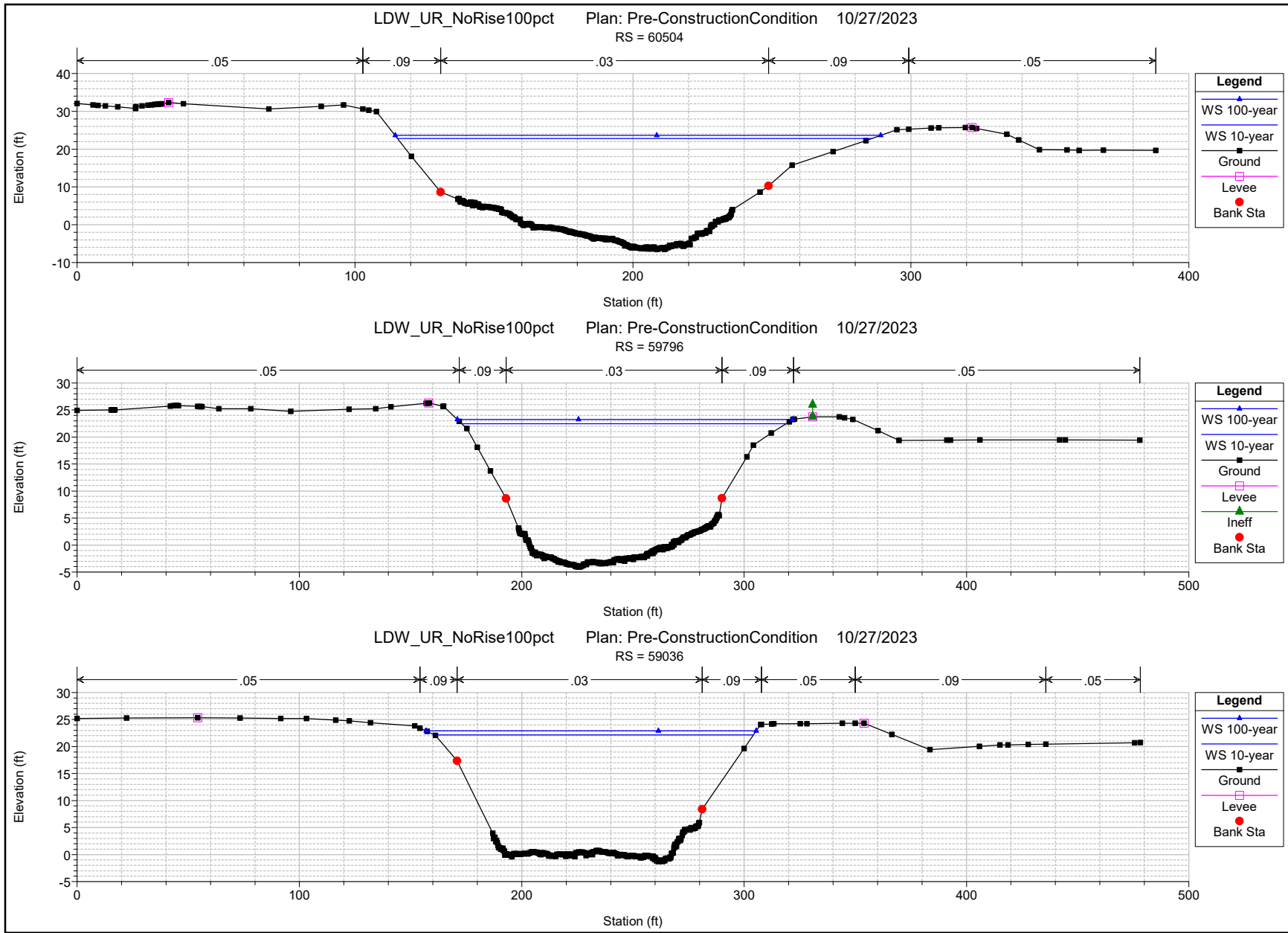


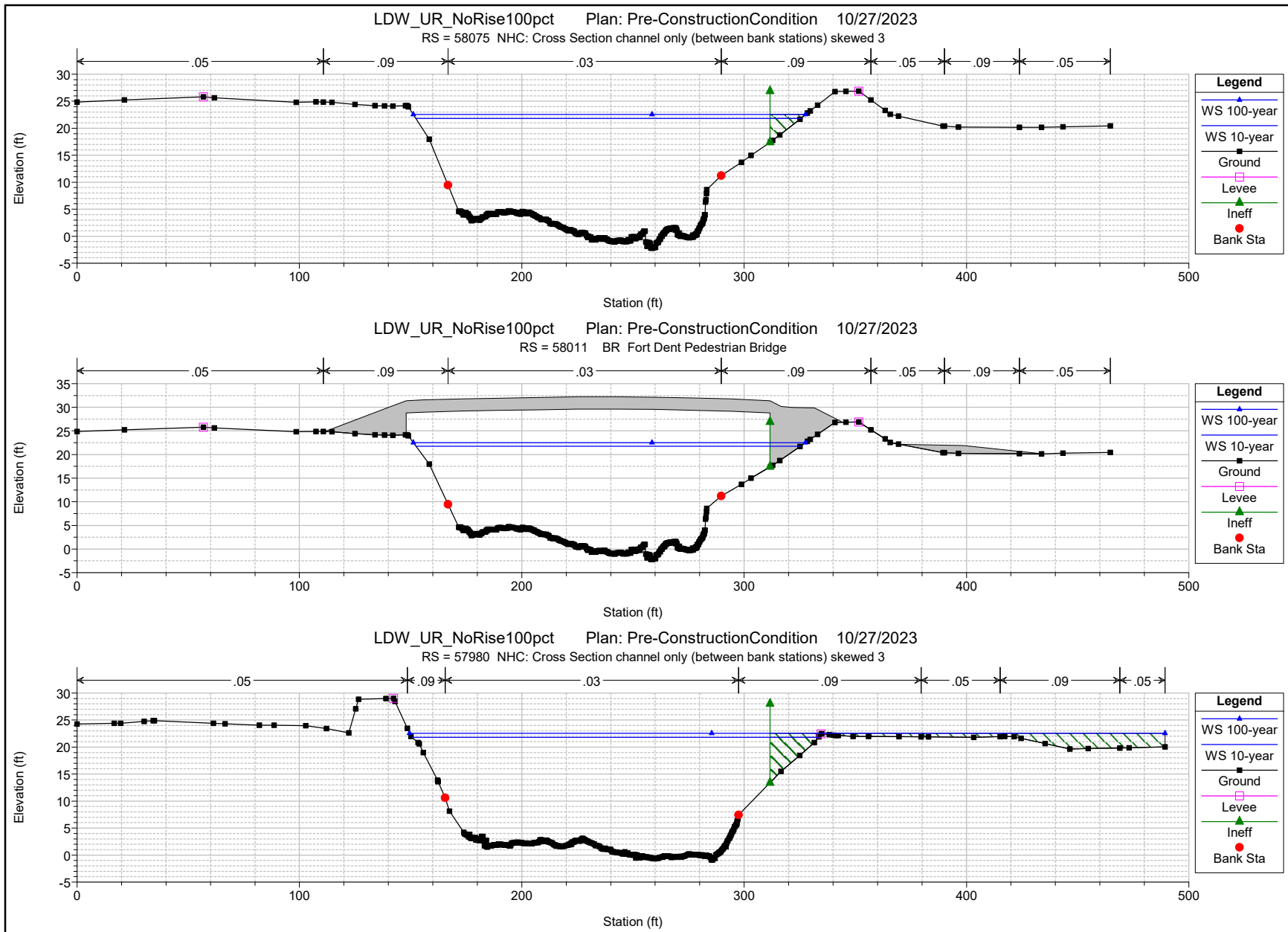


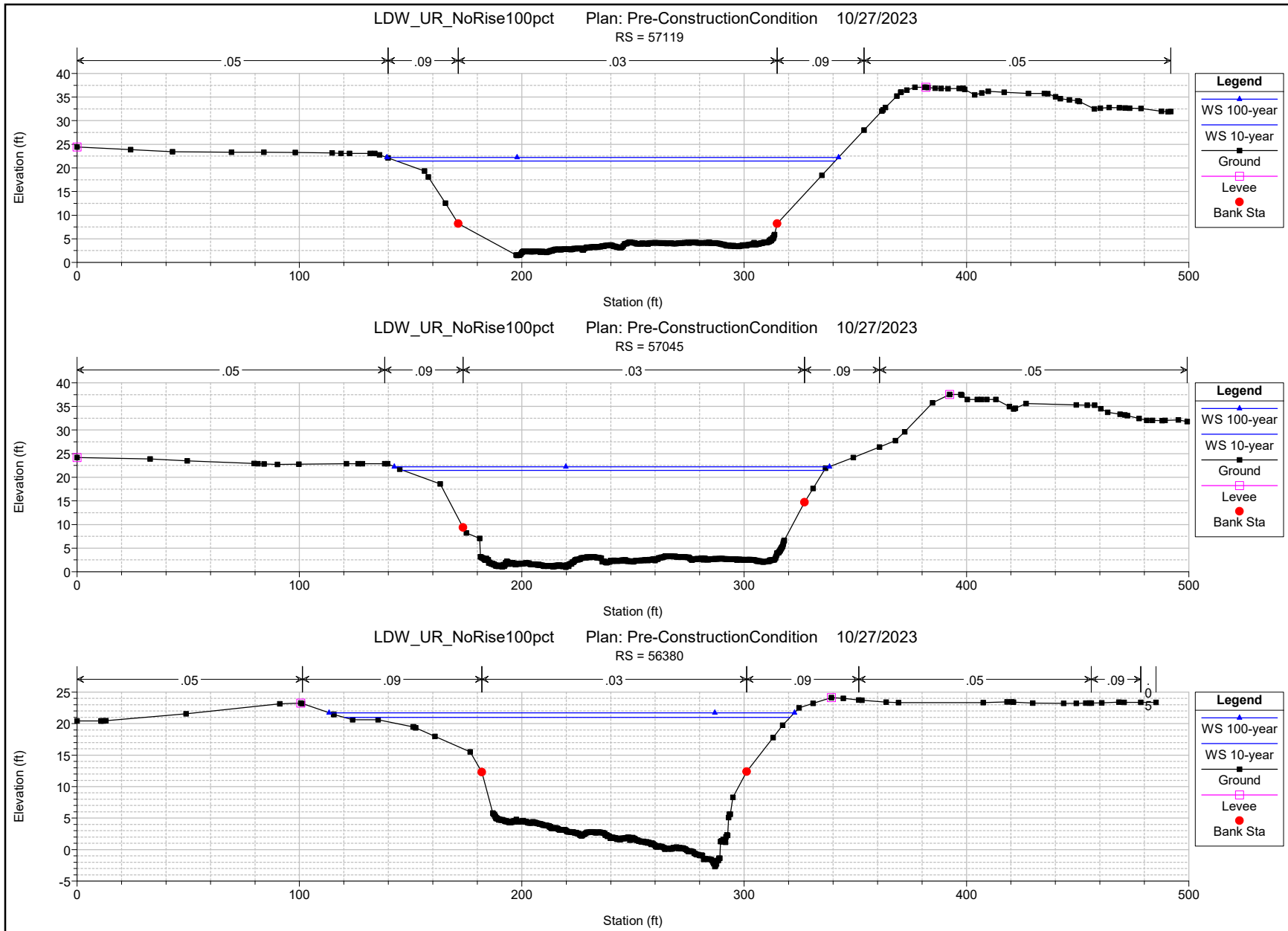


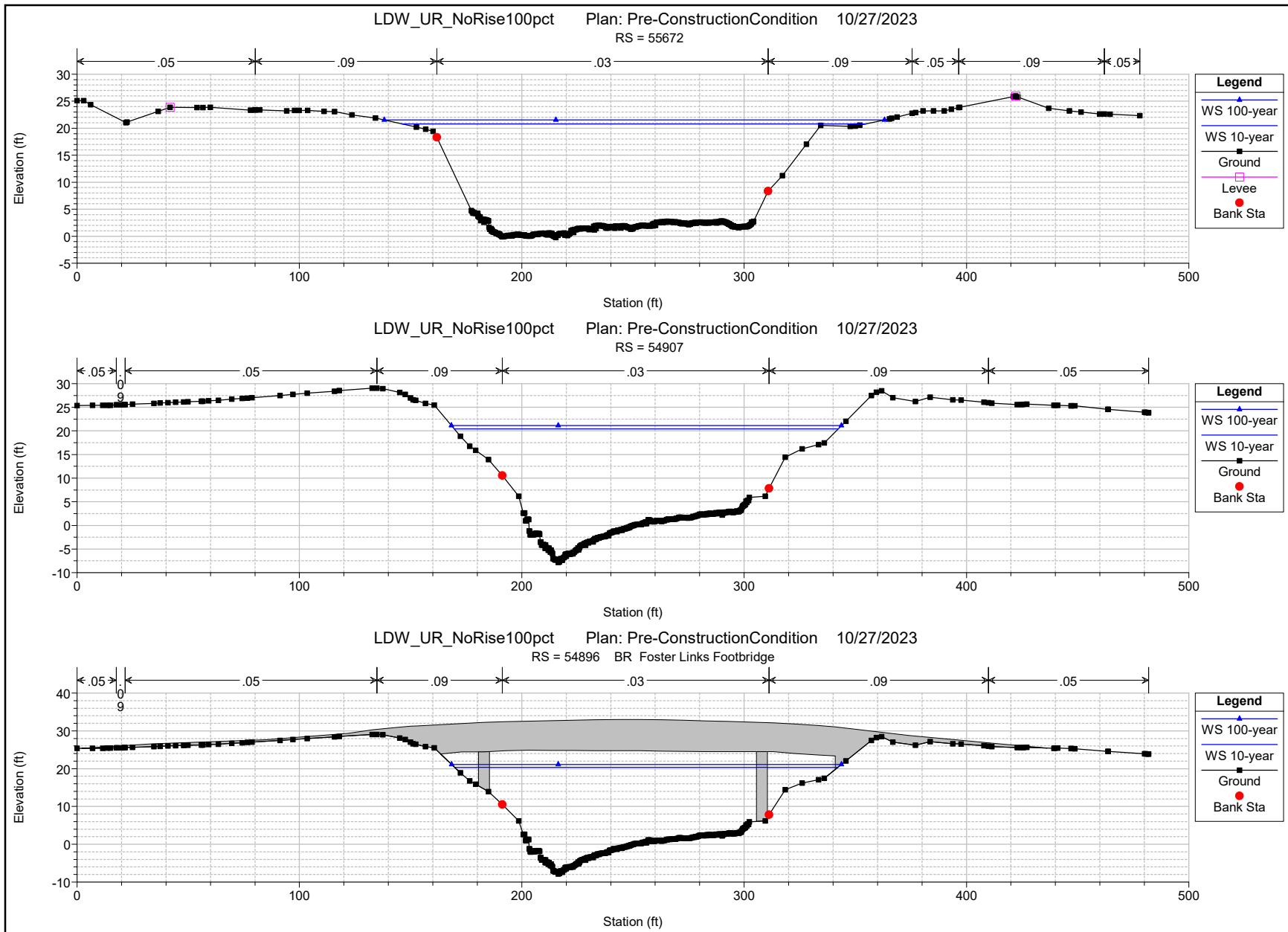


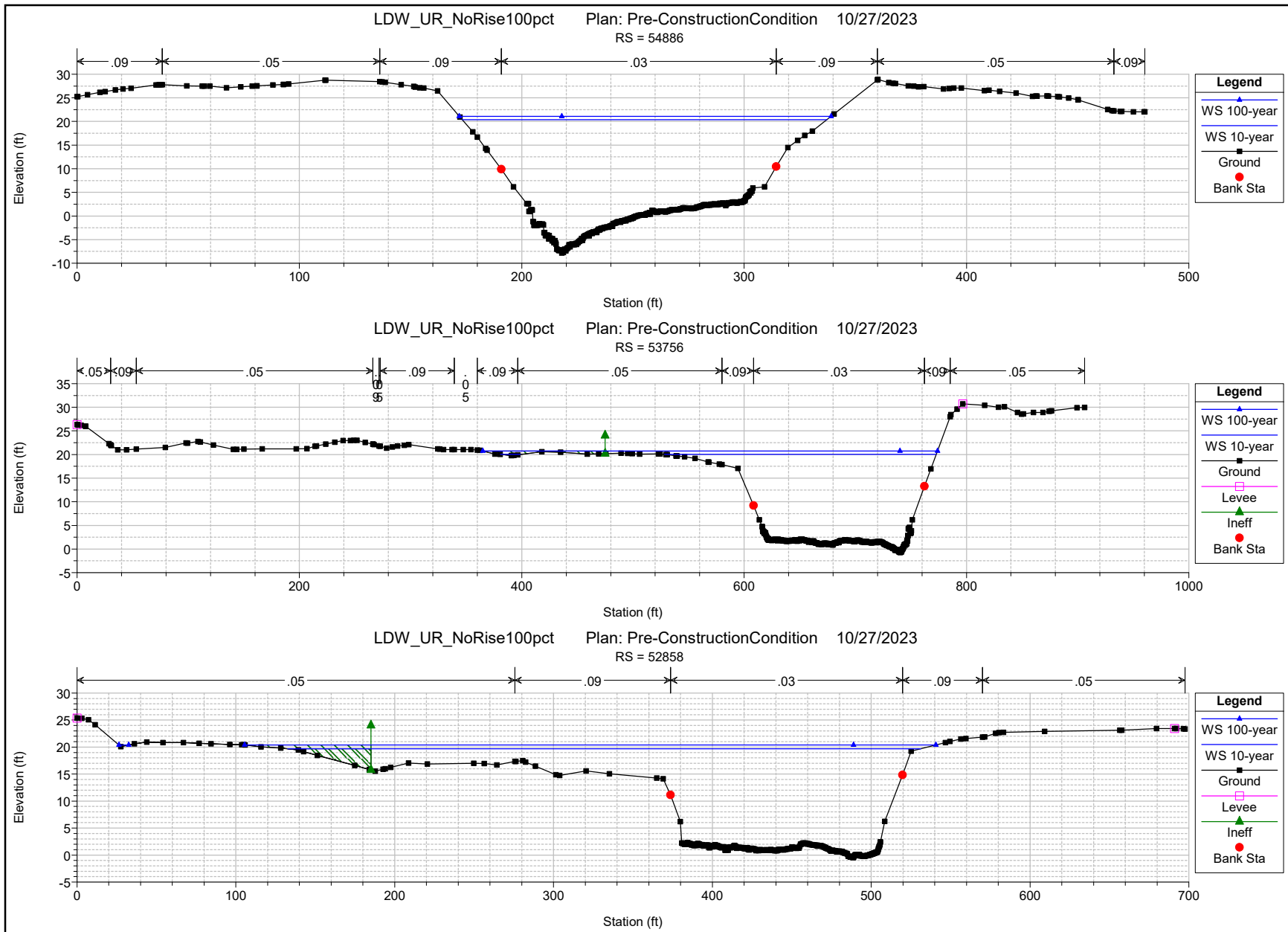


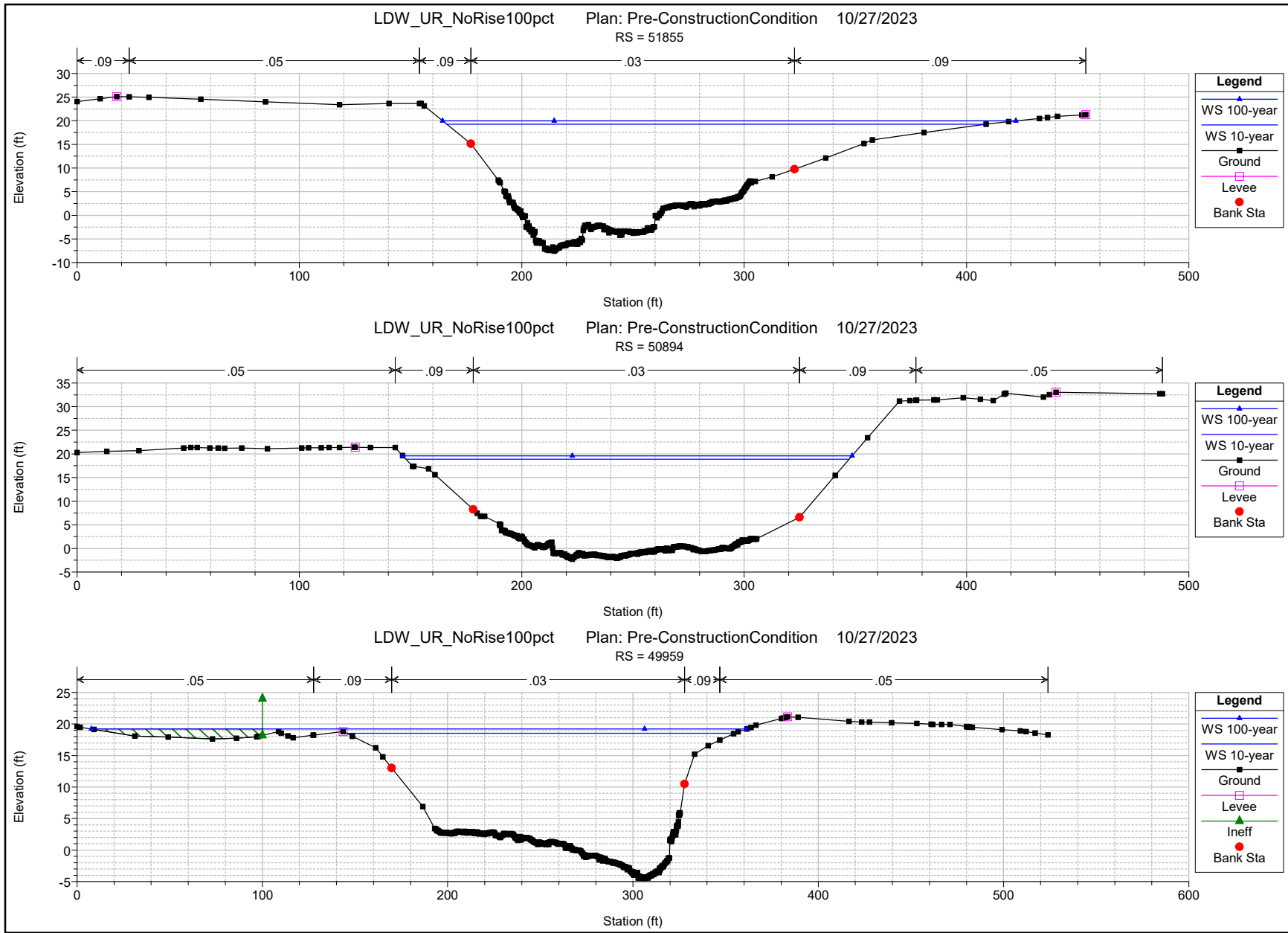


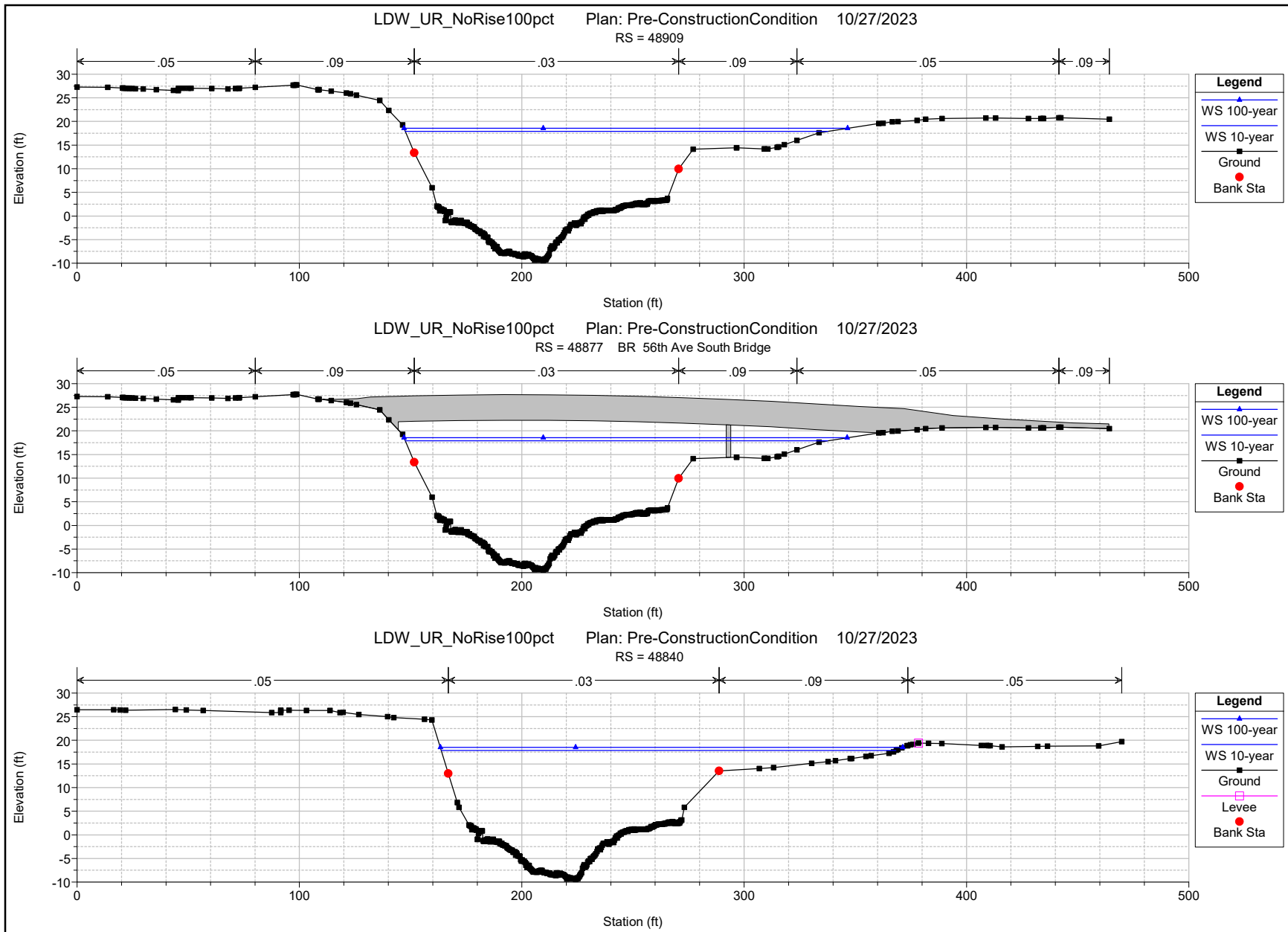


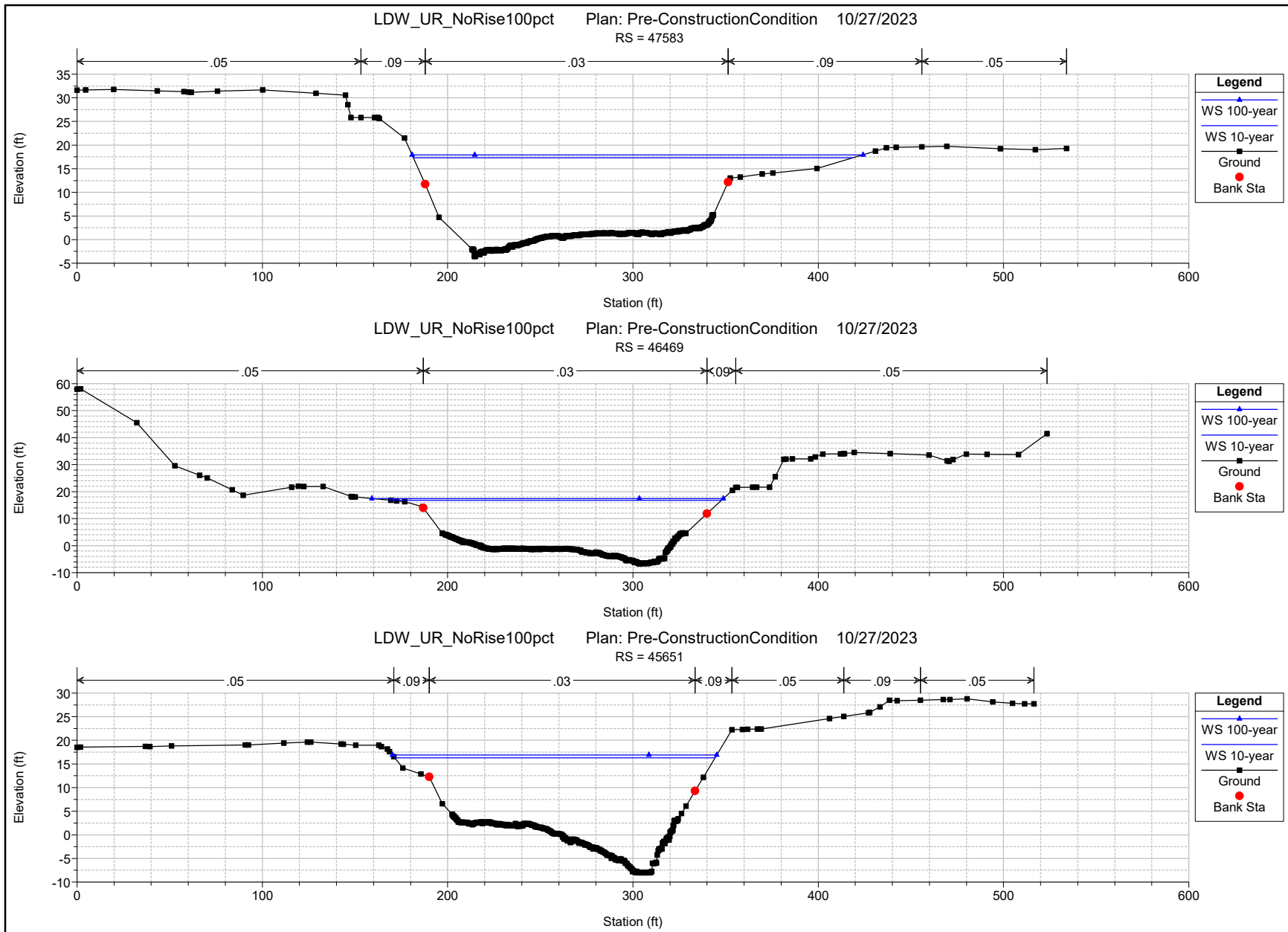




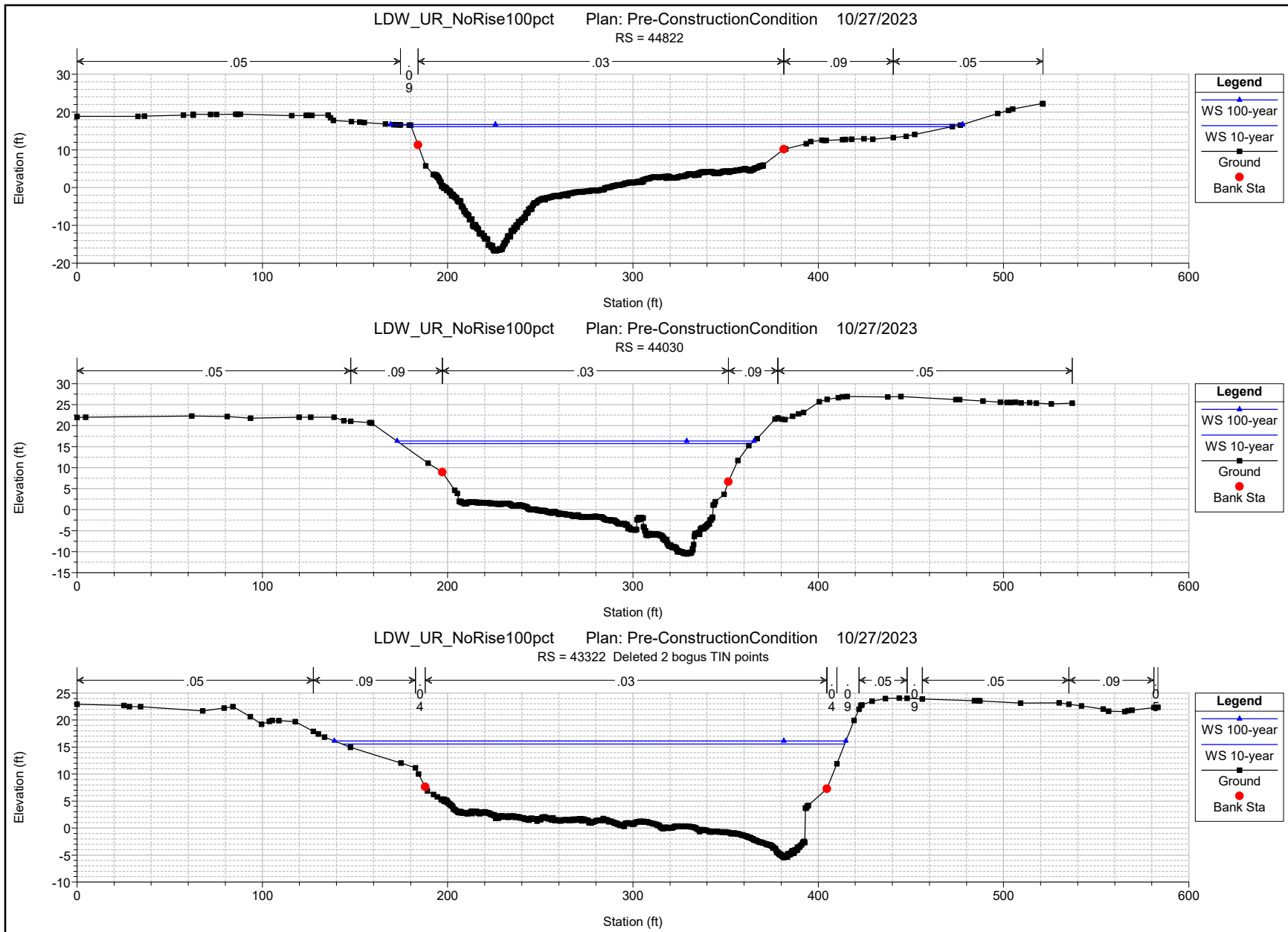


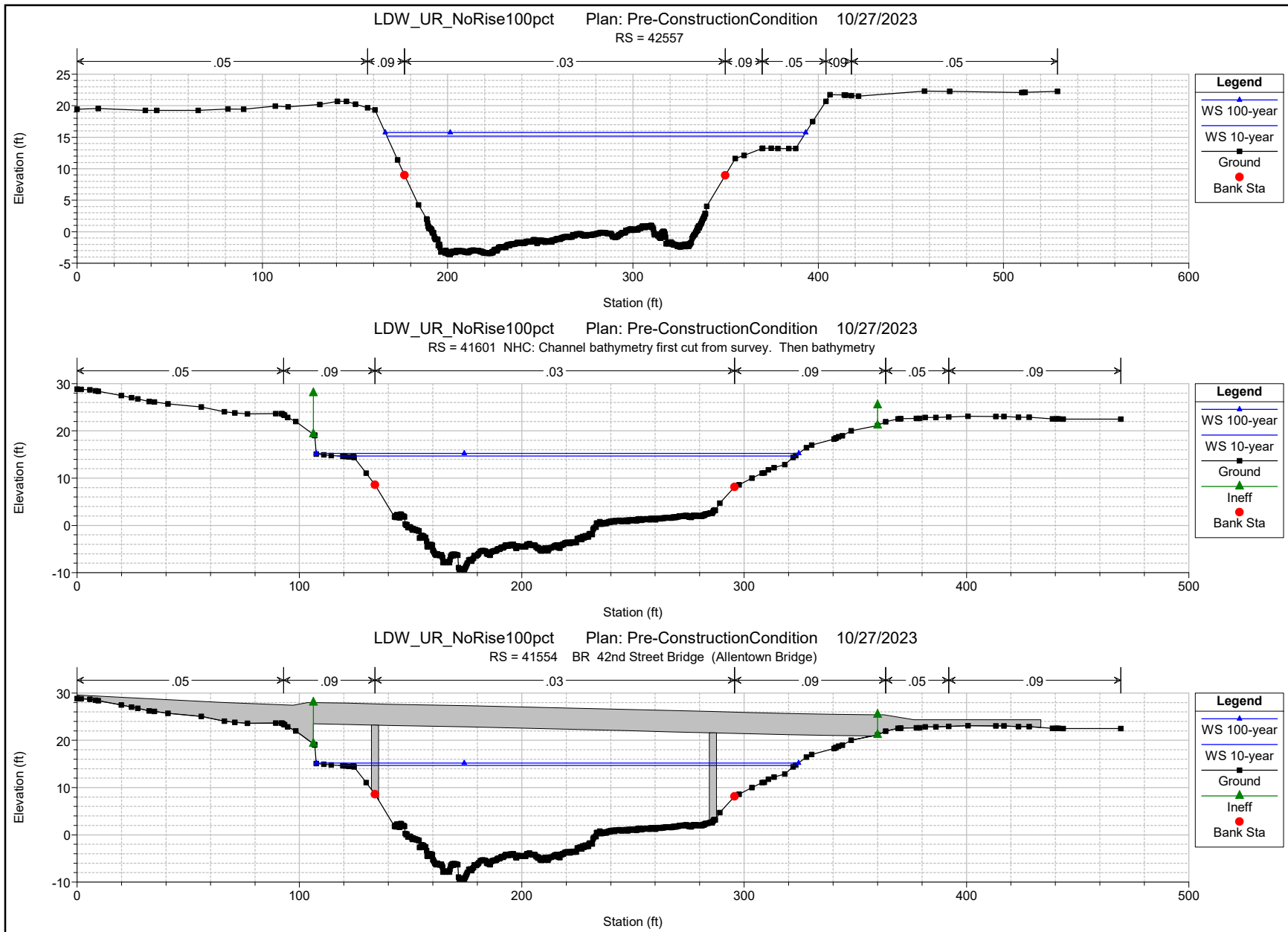




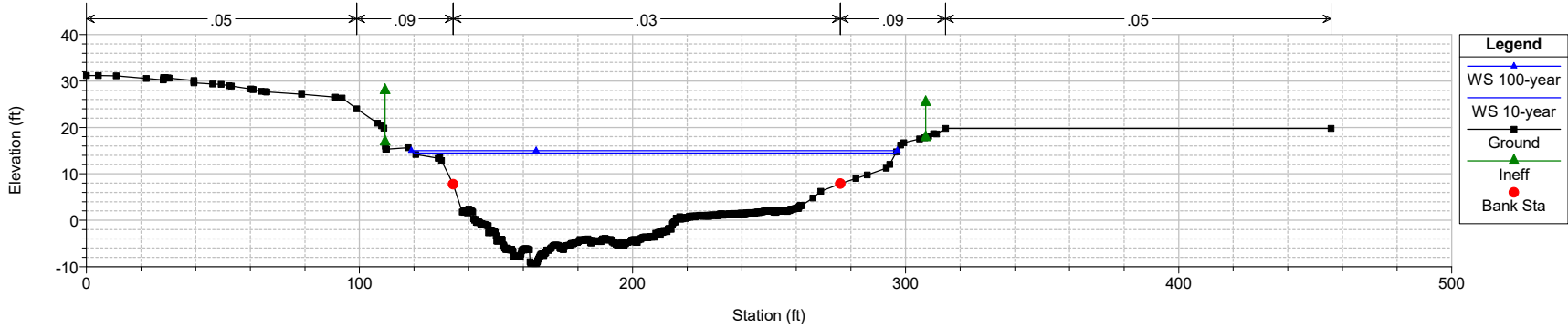




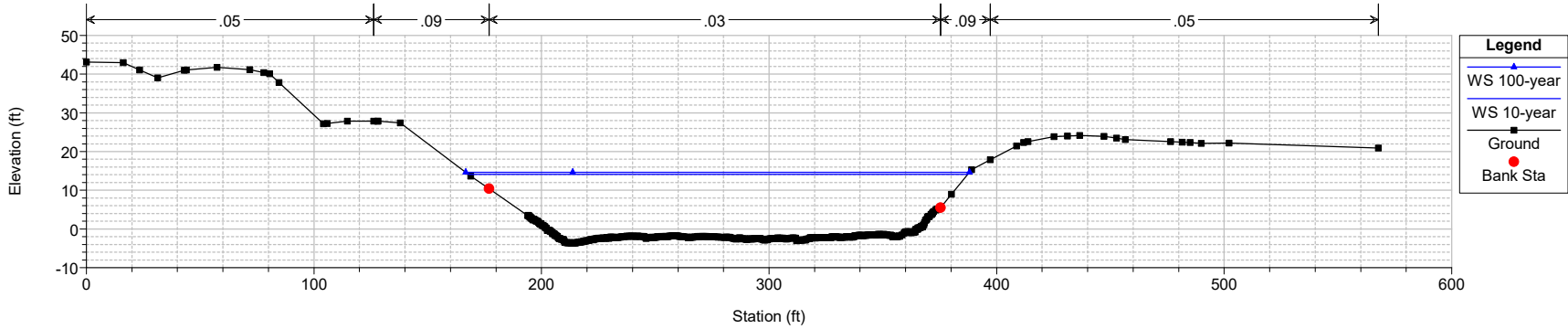




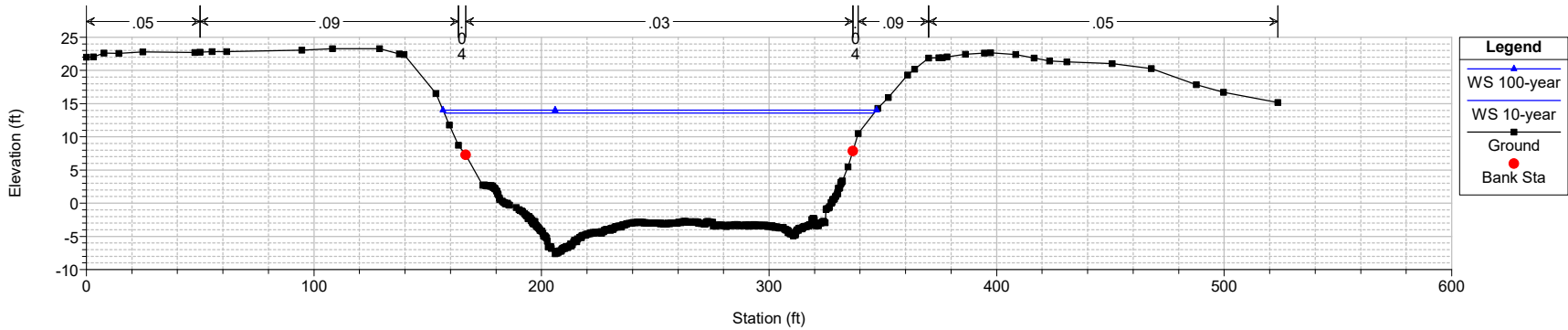
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 41506 NHC: Channel bathymetry first cut from survey. Then bathymetry



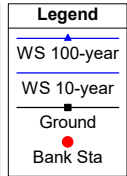
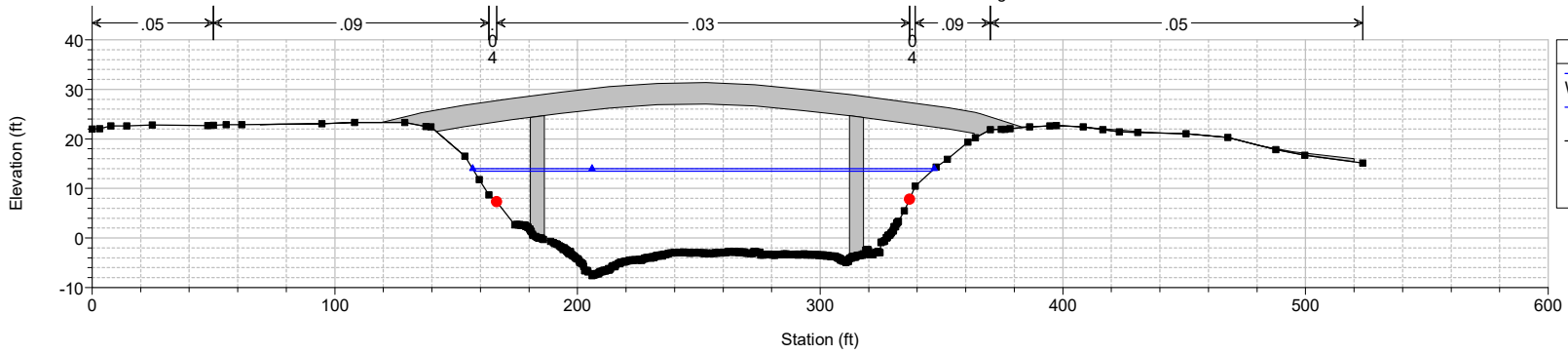
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 40403



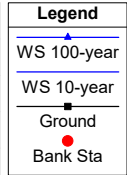
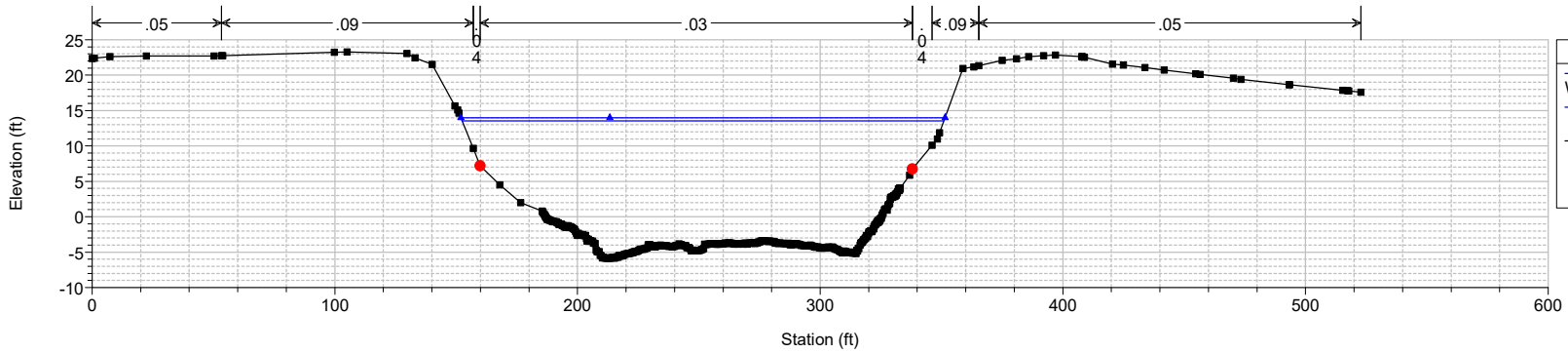
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 39077



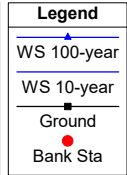
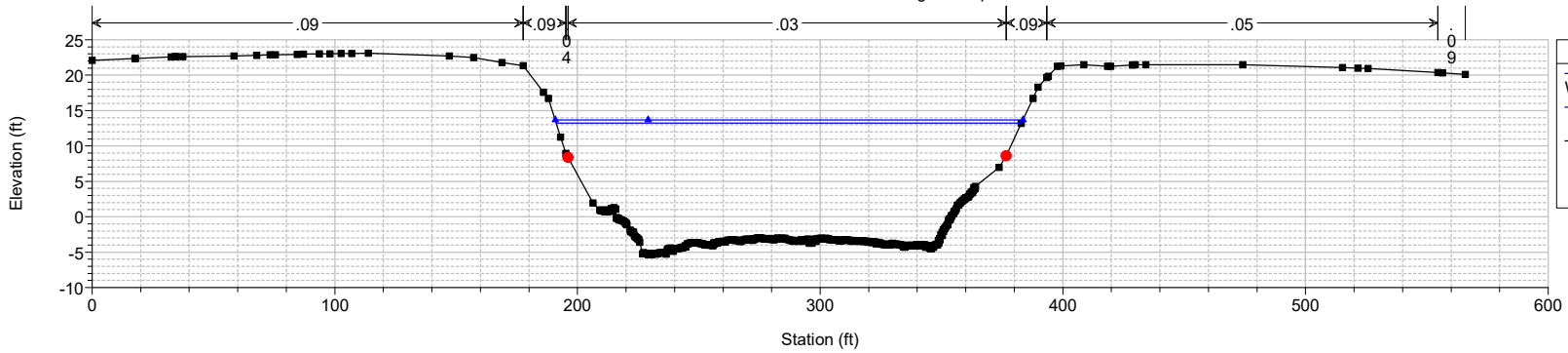
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 39056 BR S. 119th Street Footbridge

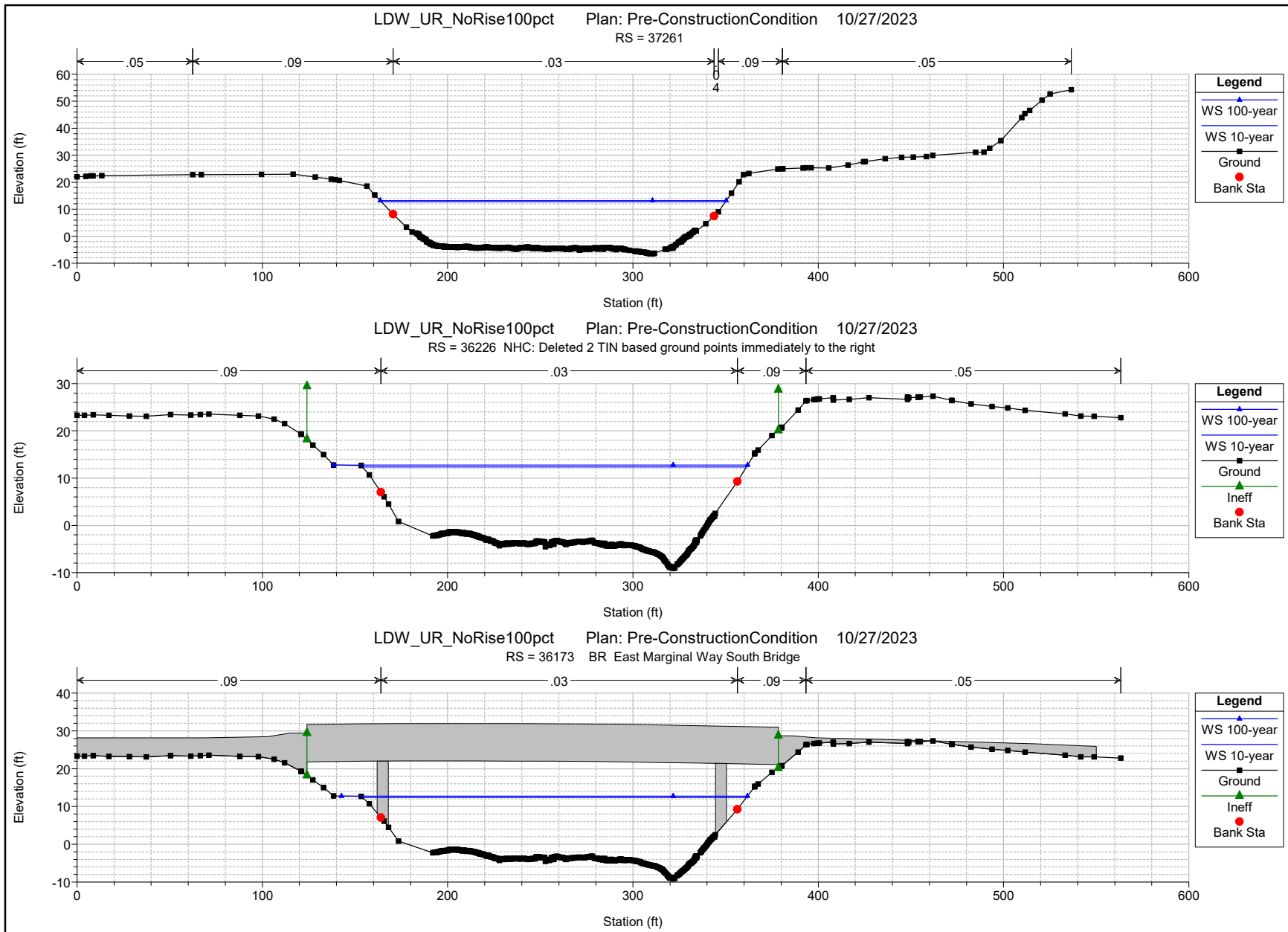


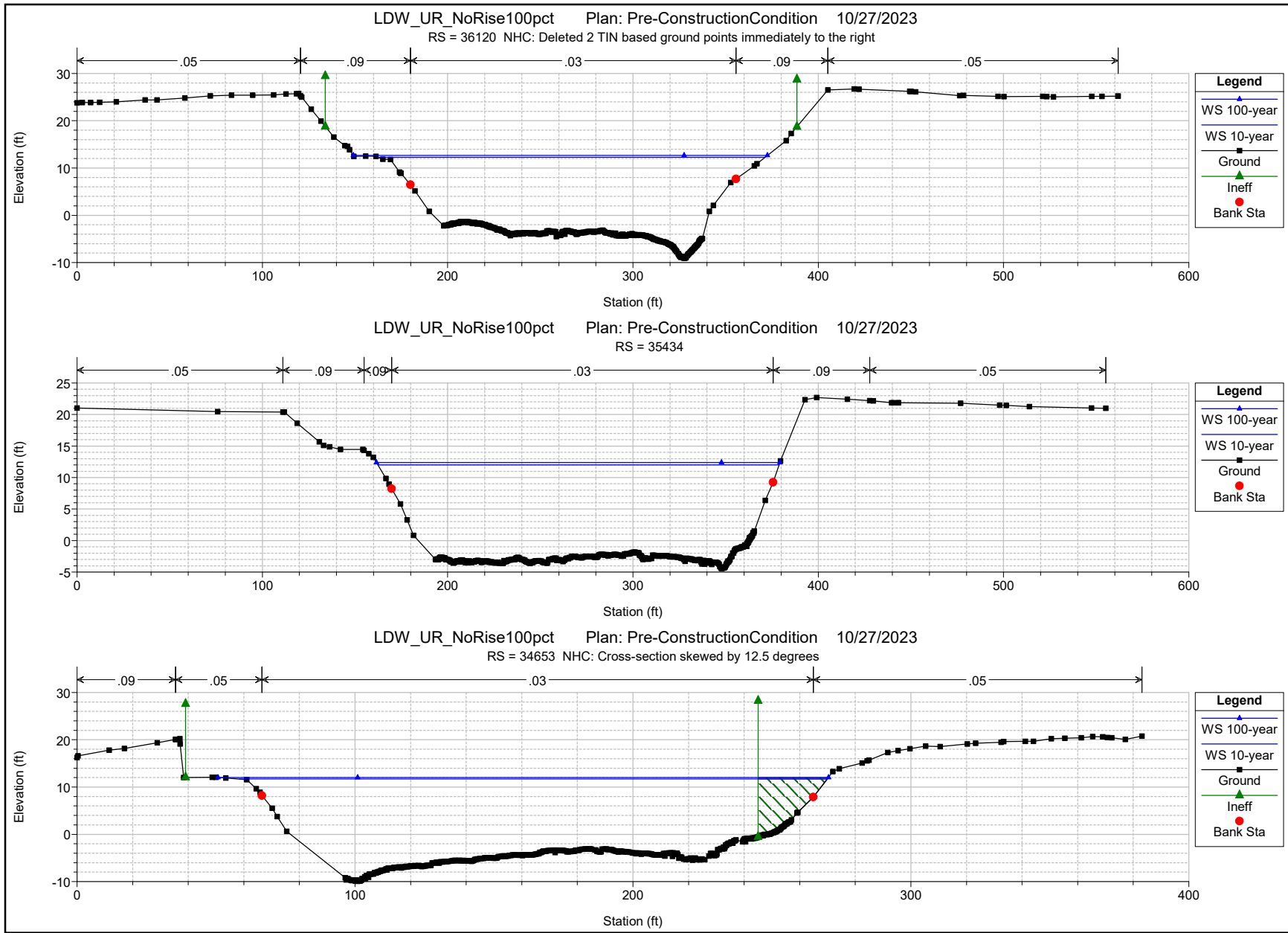
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 39014



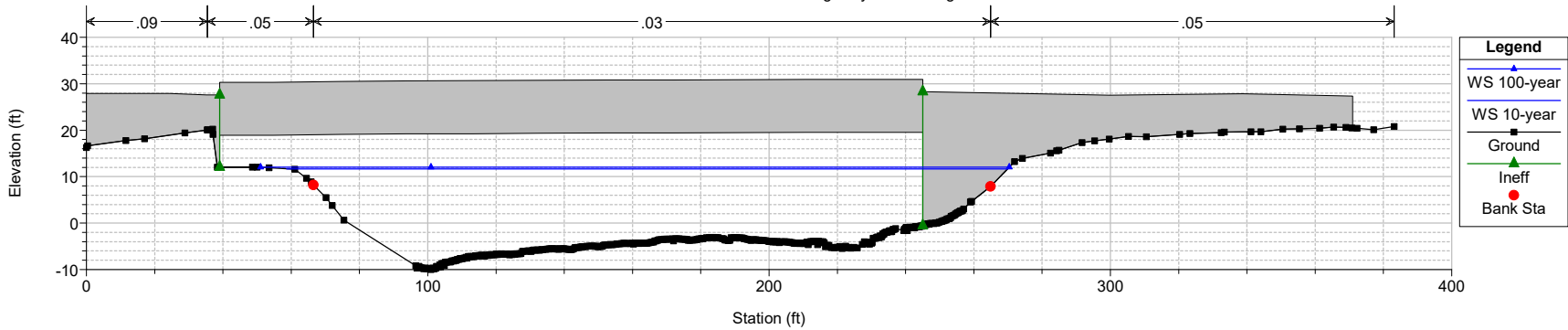
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 38343 NHC: Deleted 1 bogus TIN point



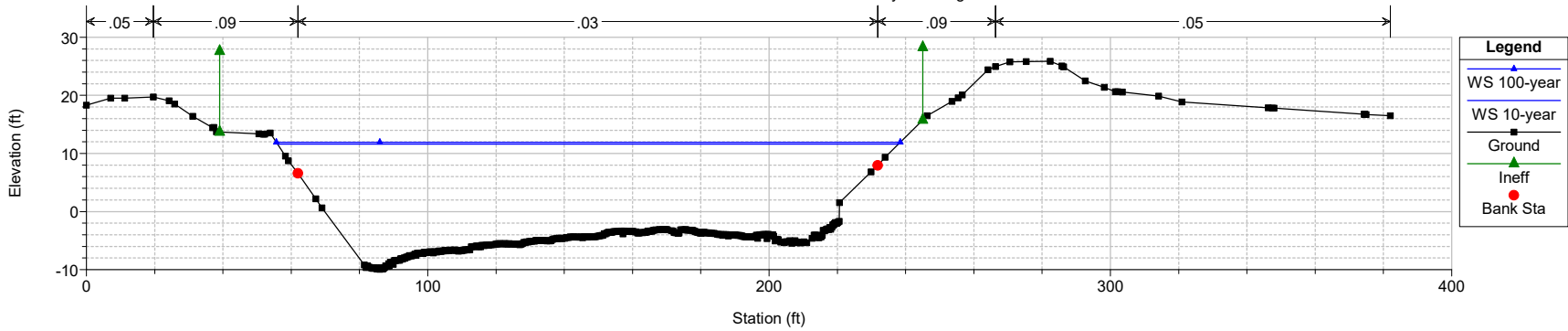




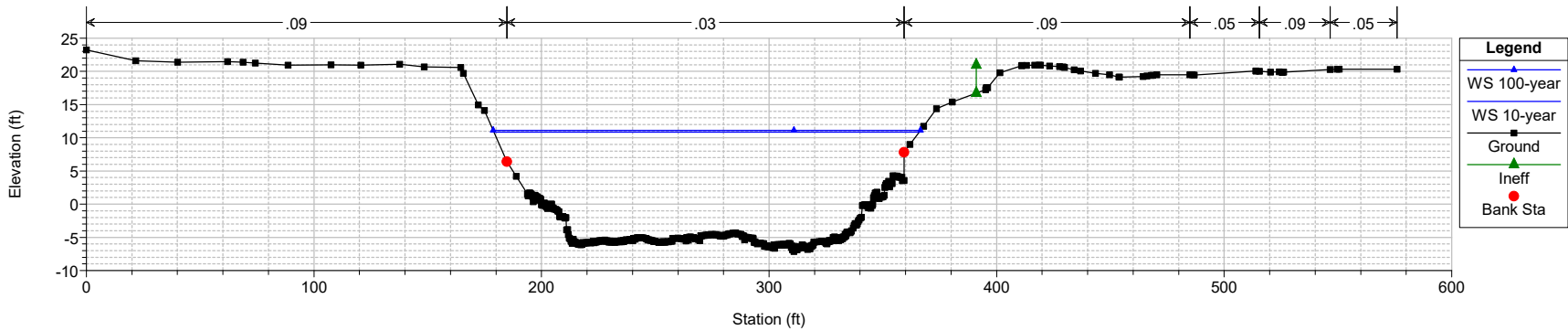
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 34579 BR Pacific Highway South Bridge

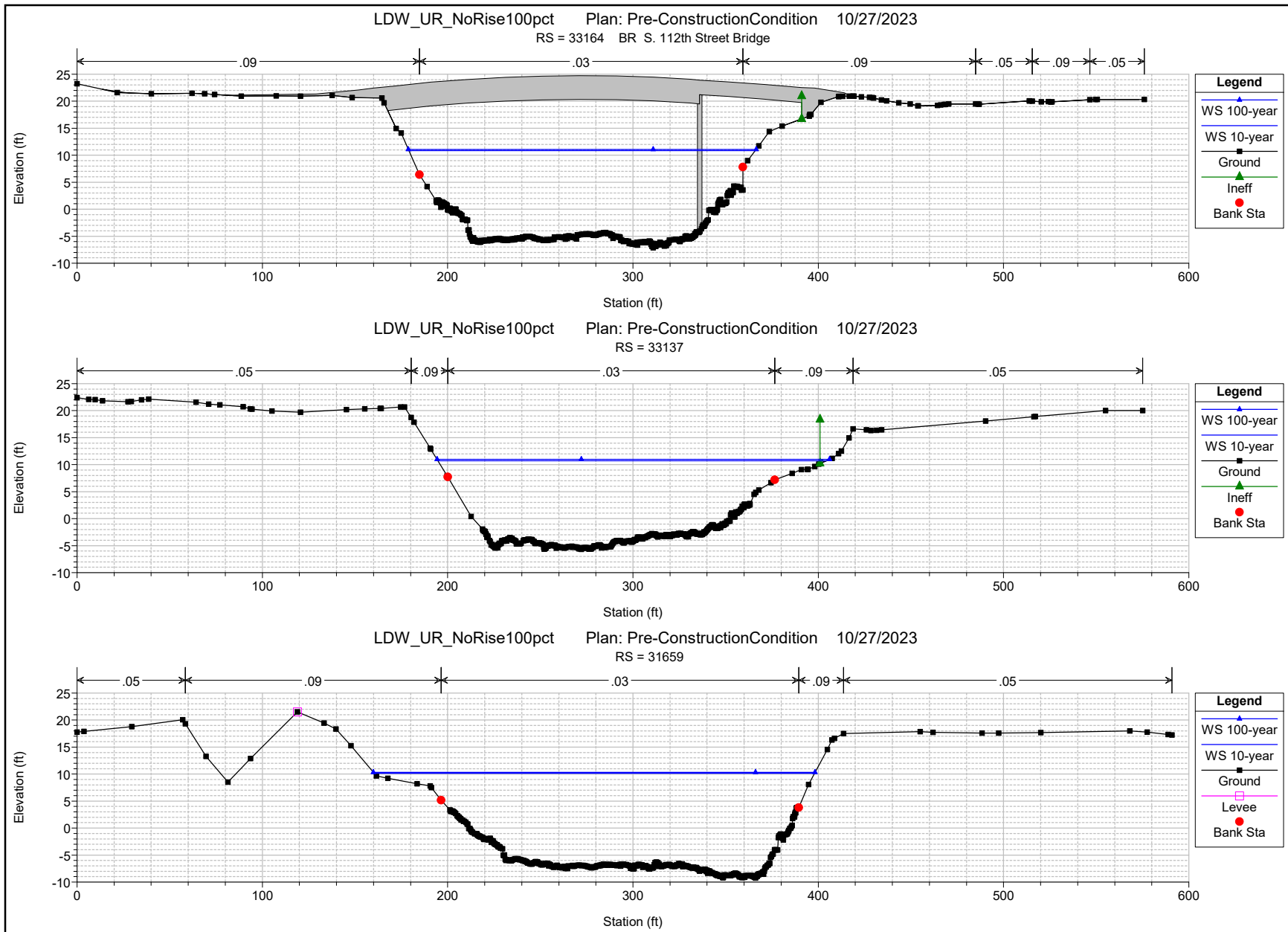


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 34510 NHC: Cross-section skewed by 12.5 degrees.

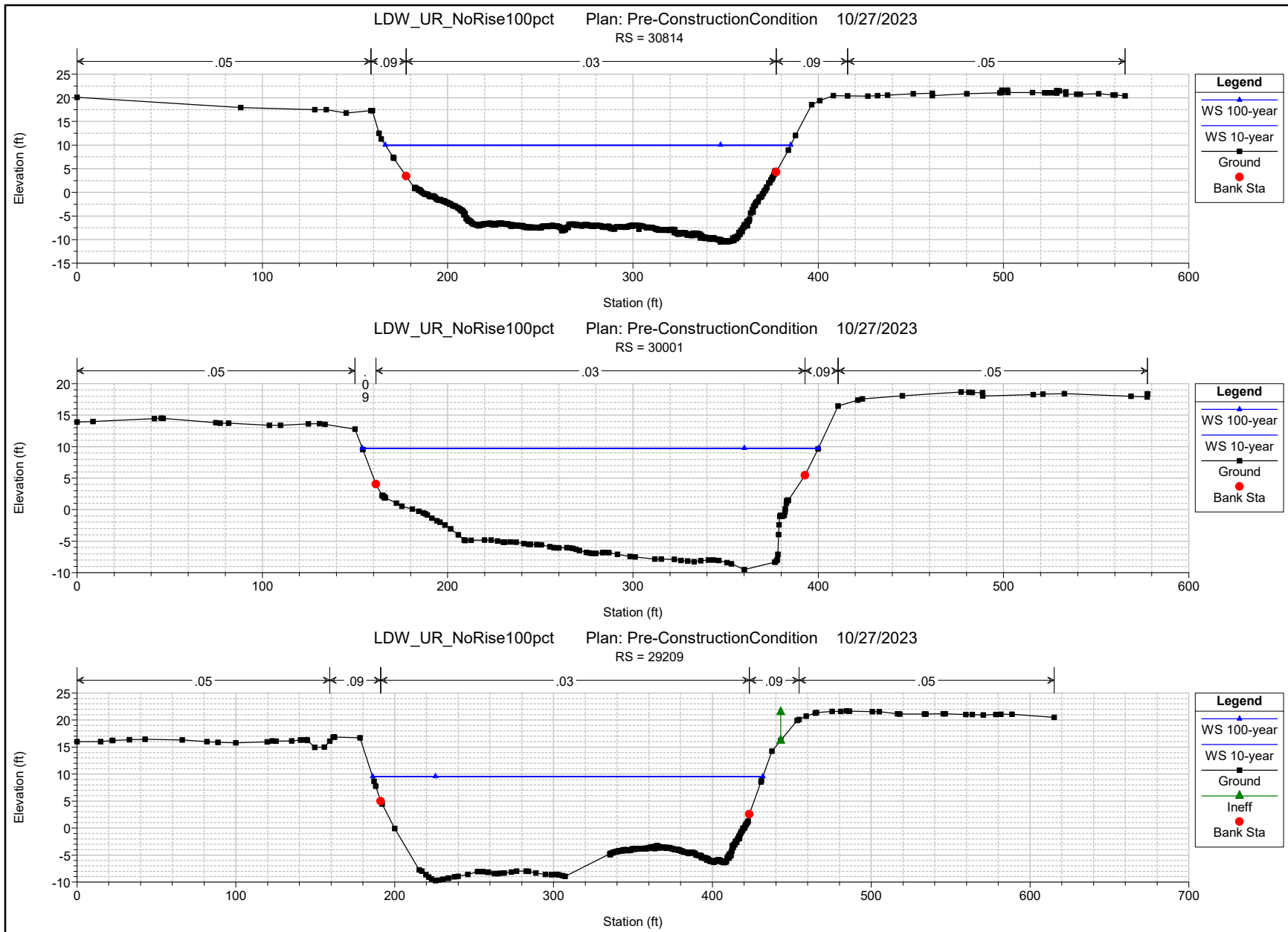


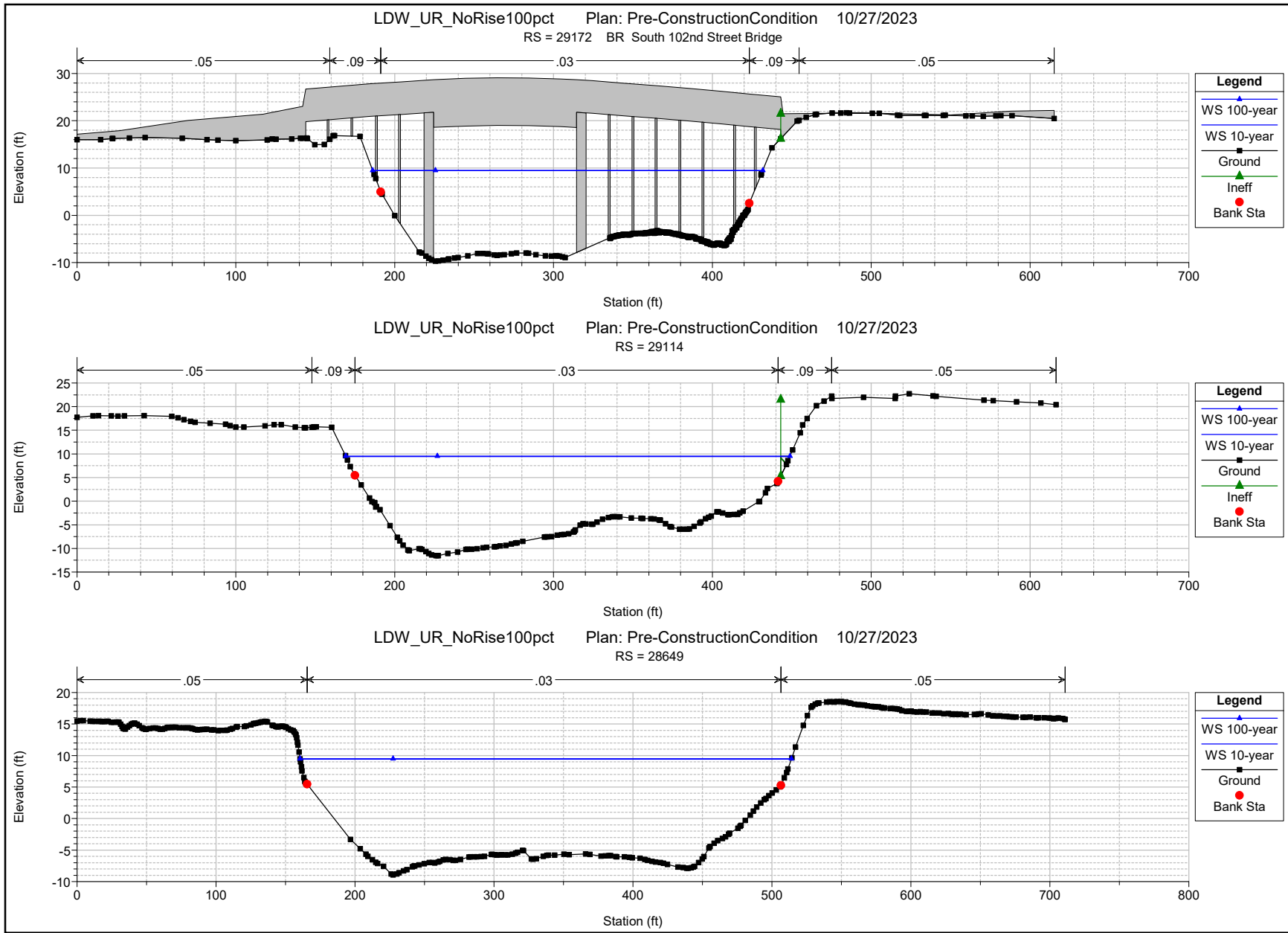
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
 RS = 33180

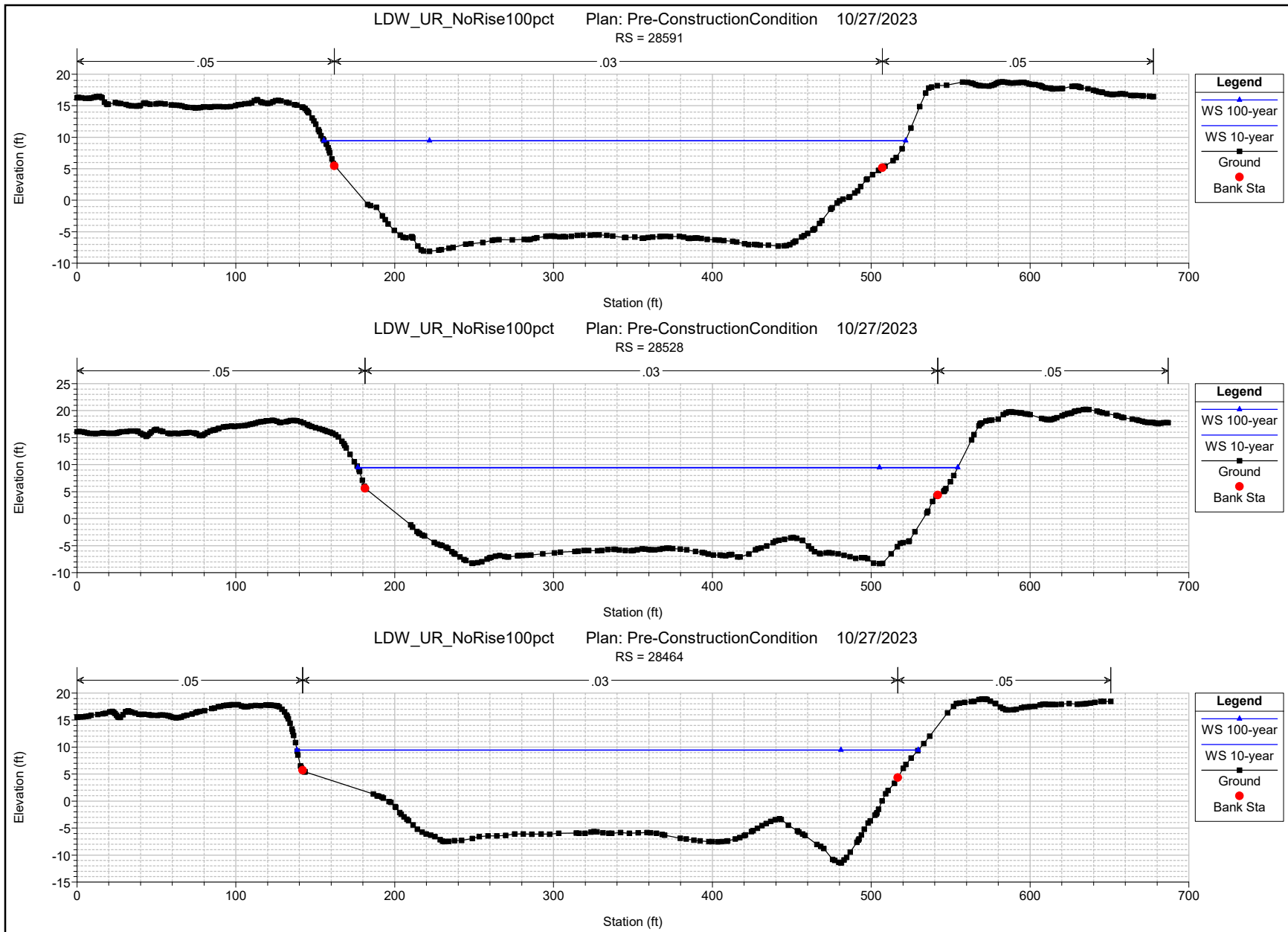




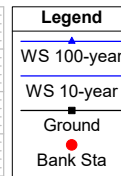
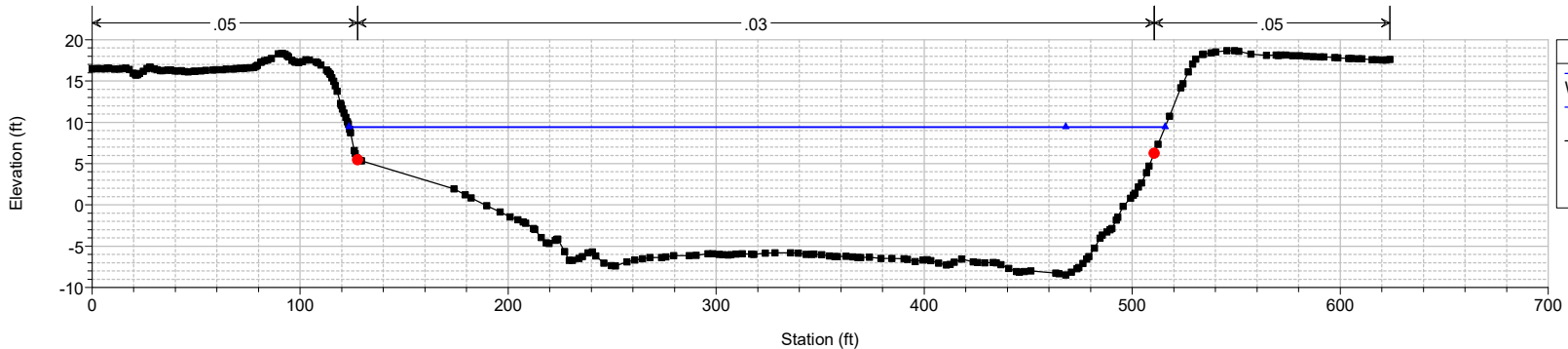




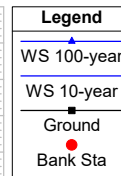
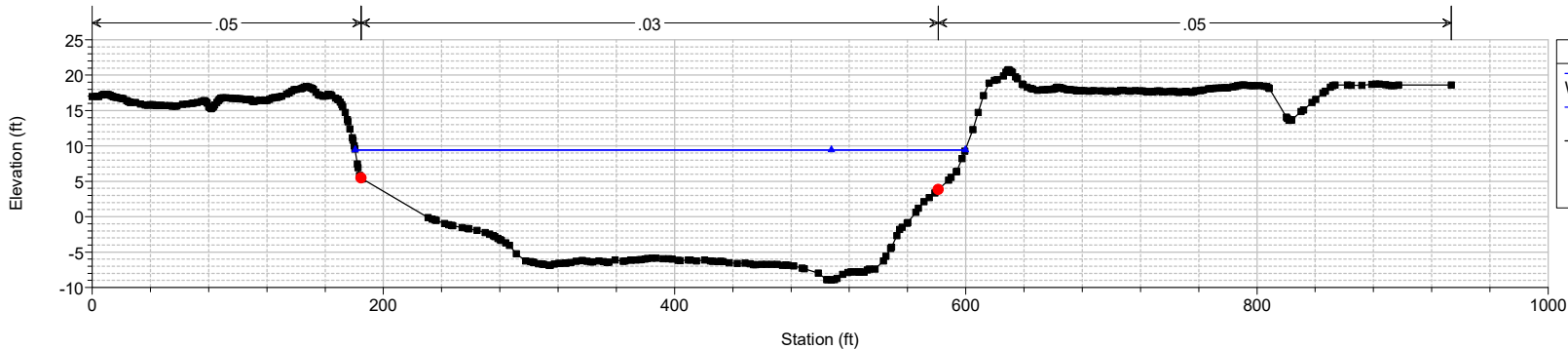




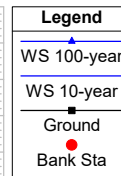
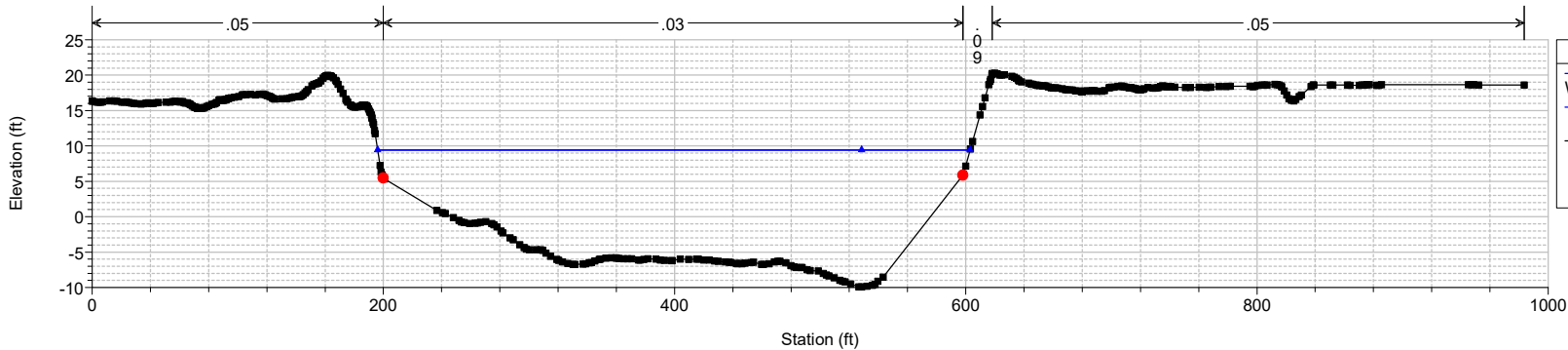
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 28369

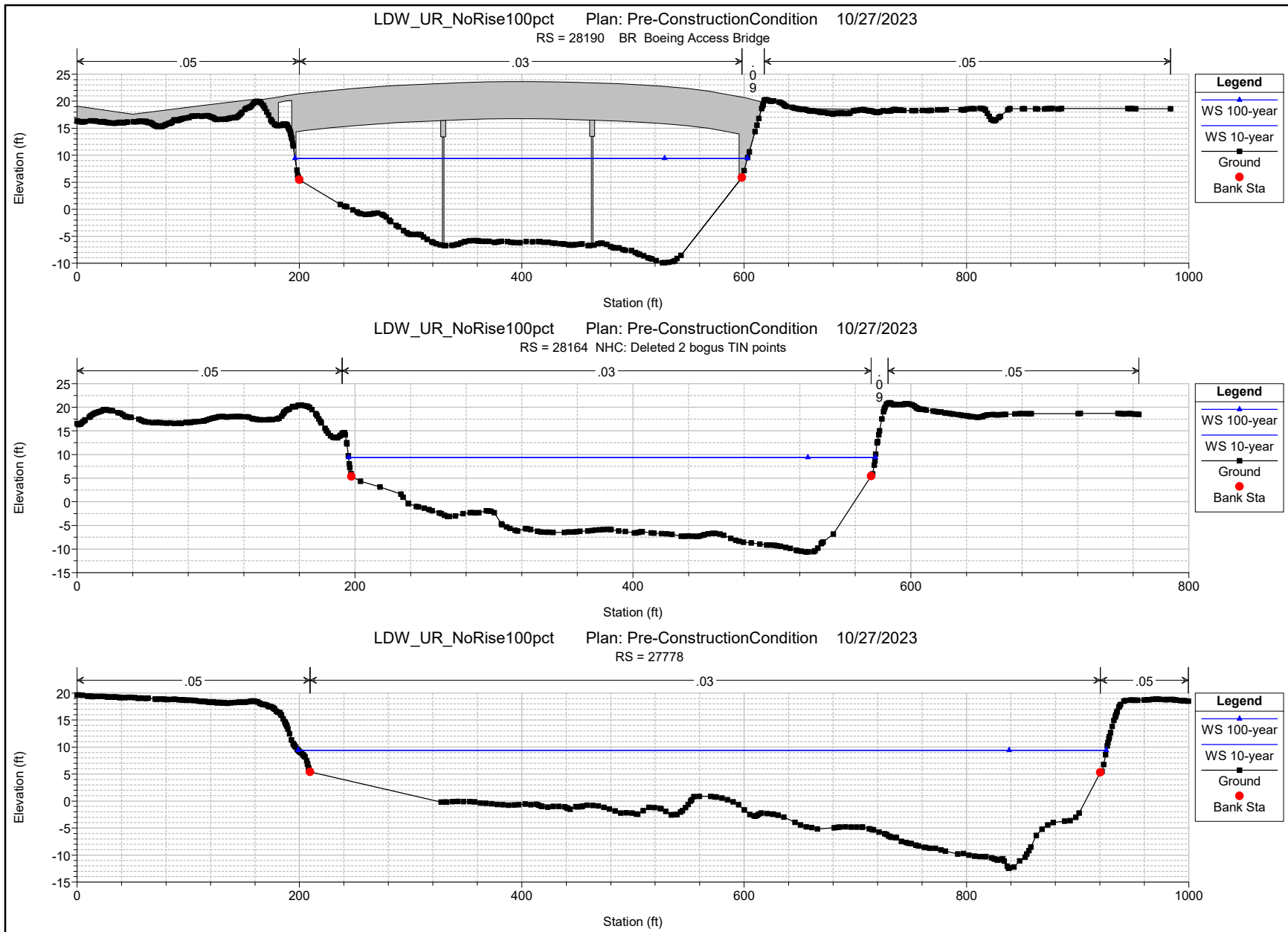


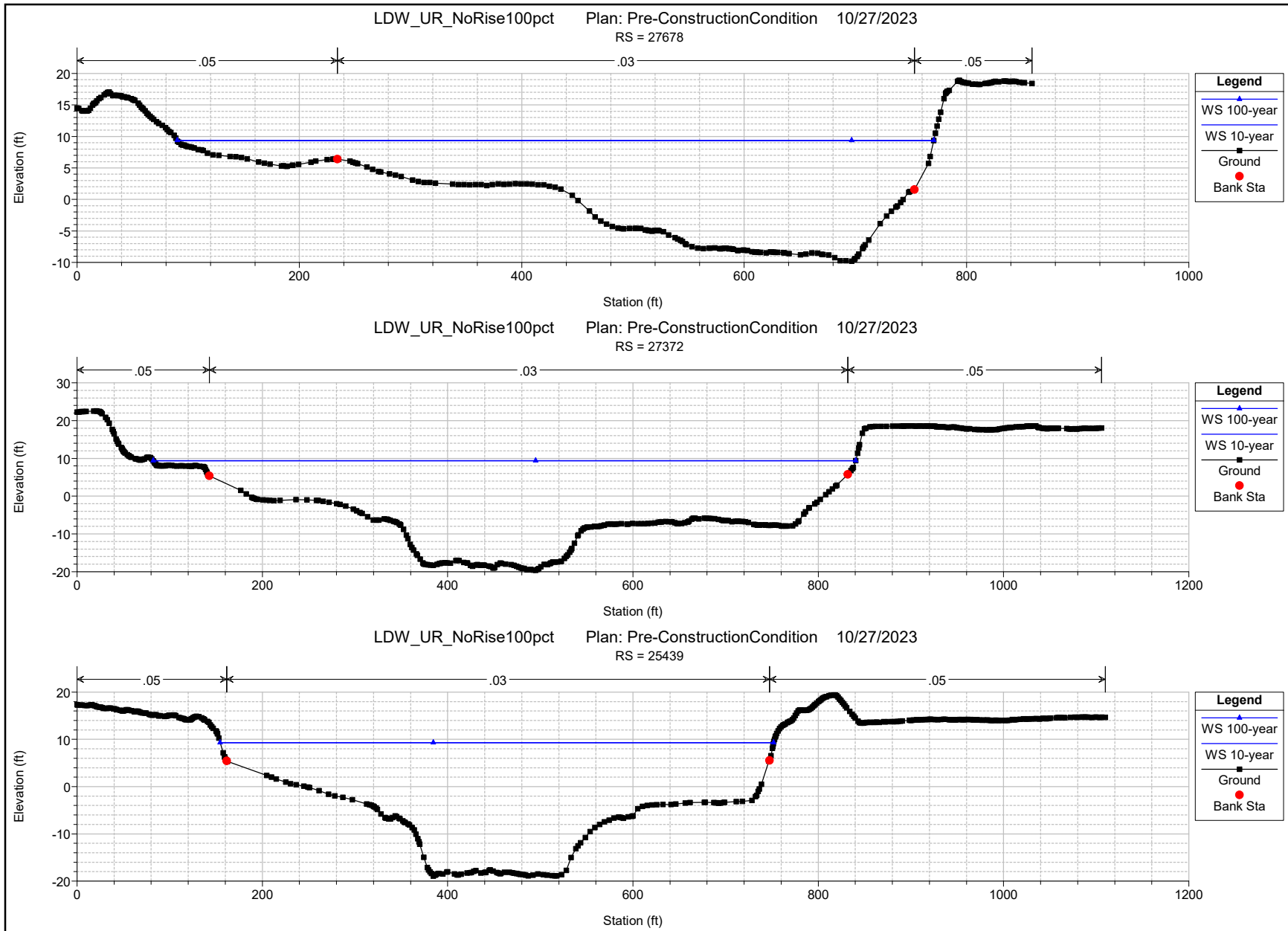
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 28322



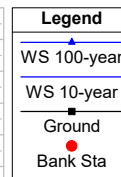
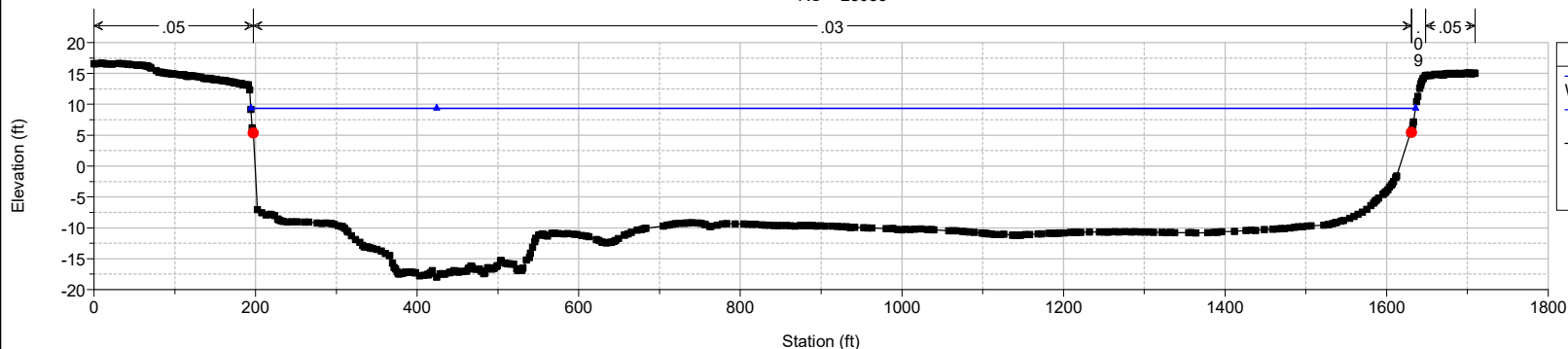
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 28243



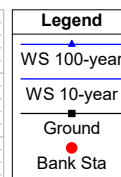
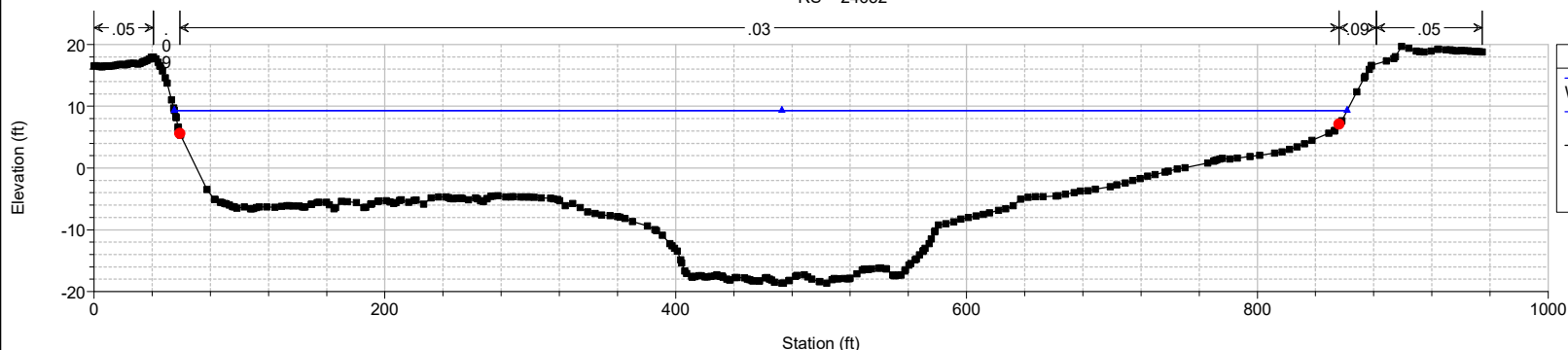




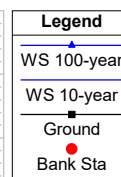
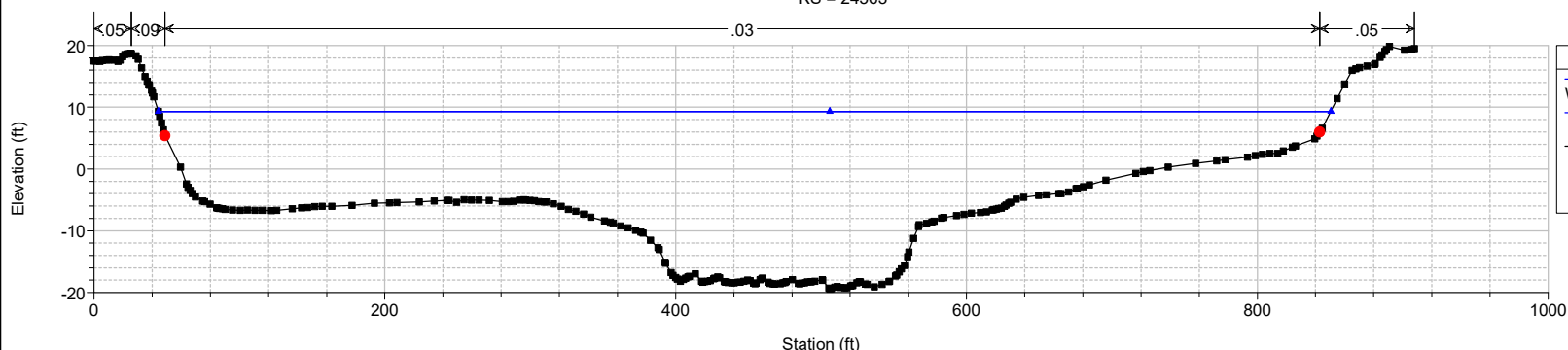
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 25085



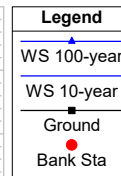
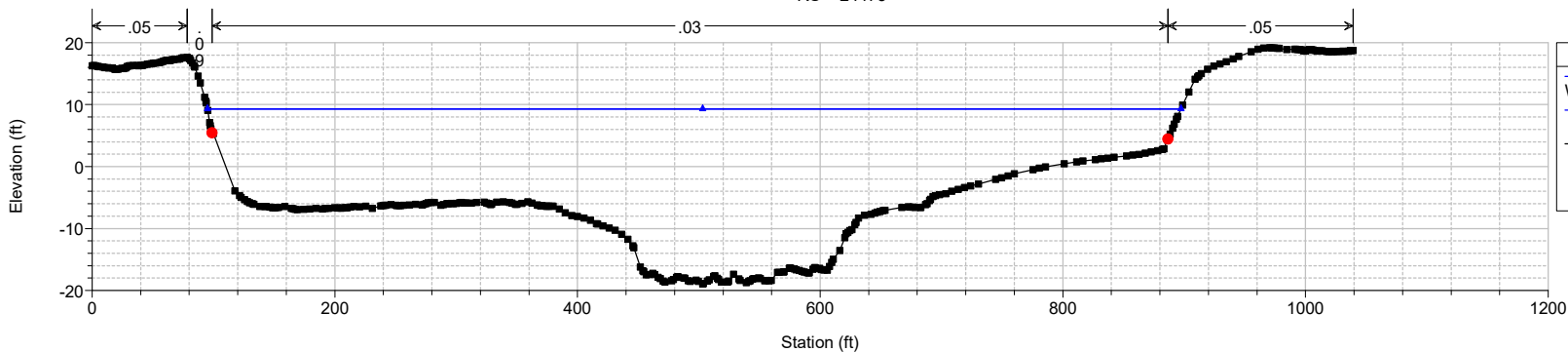
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 24652



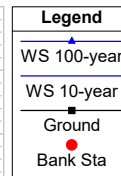
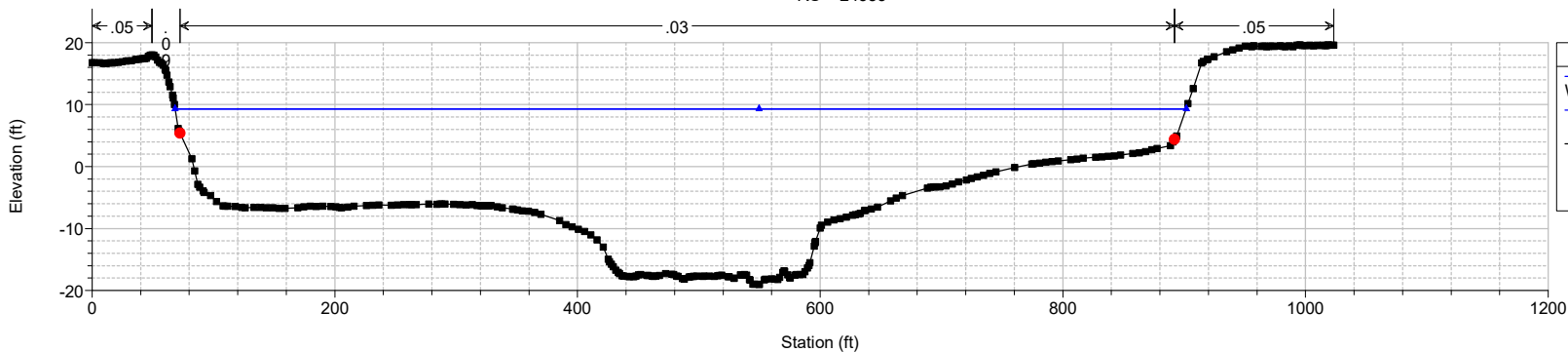
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 24563



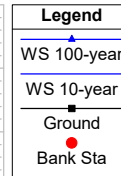
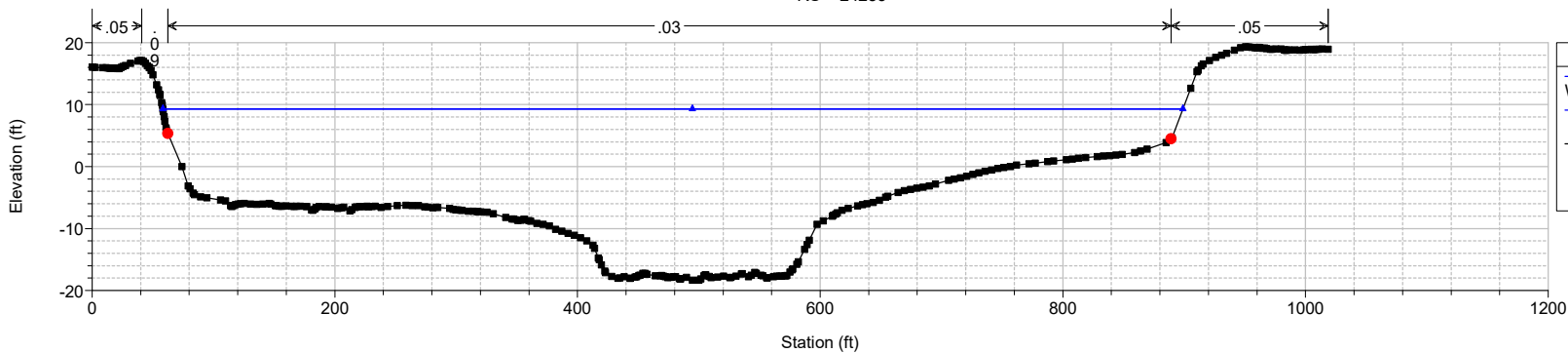
LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 24473



LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 24383

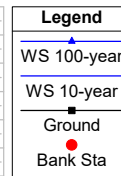
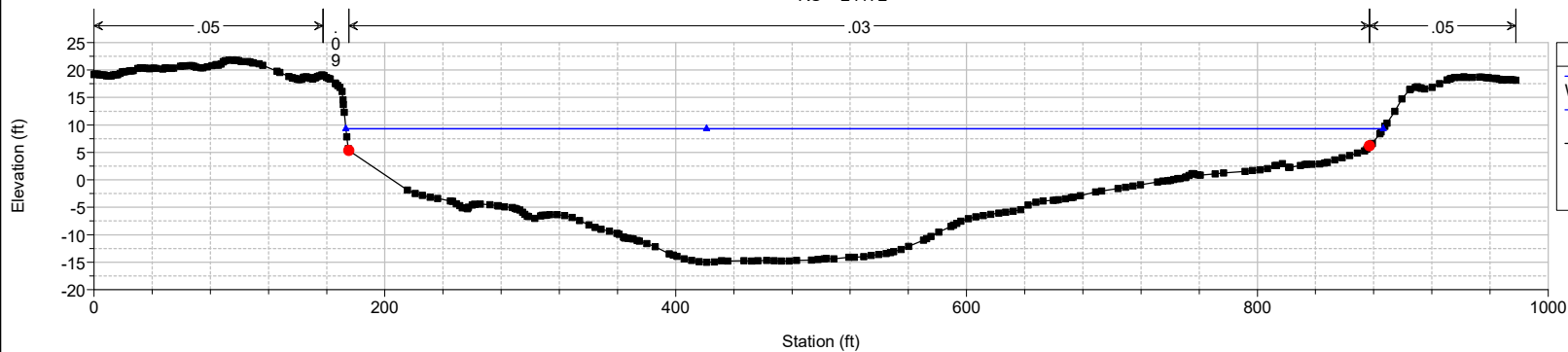


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 24283

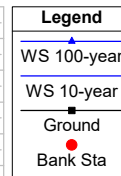
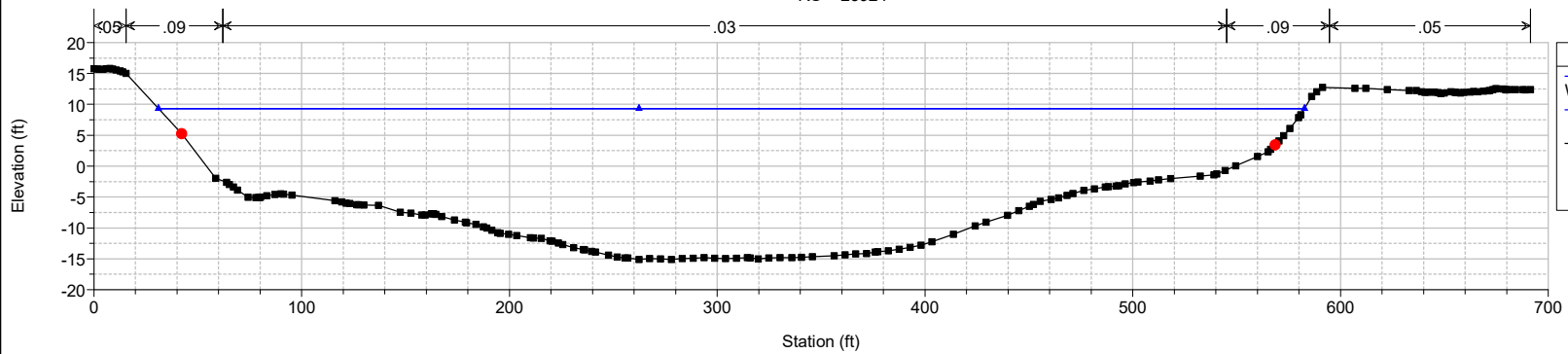




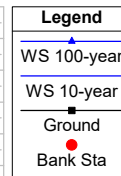
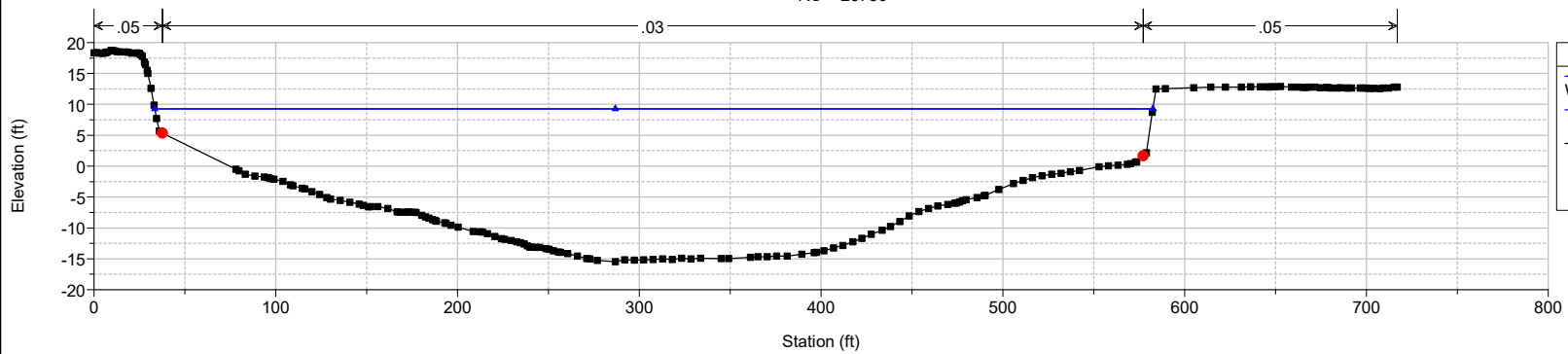
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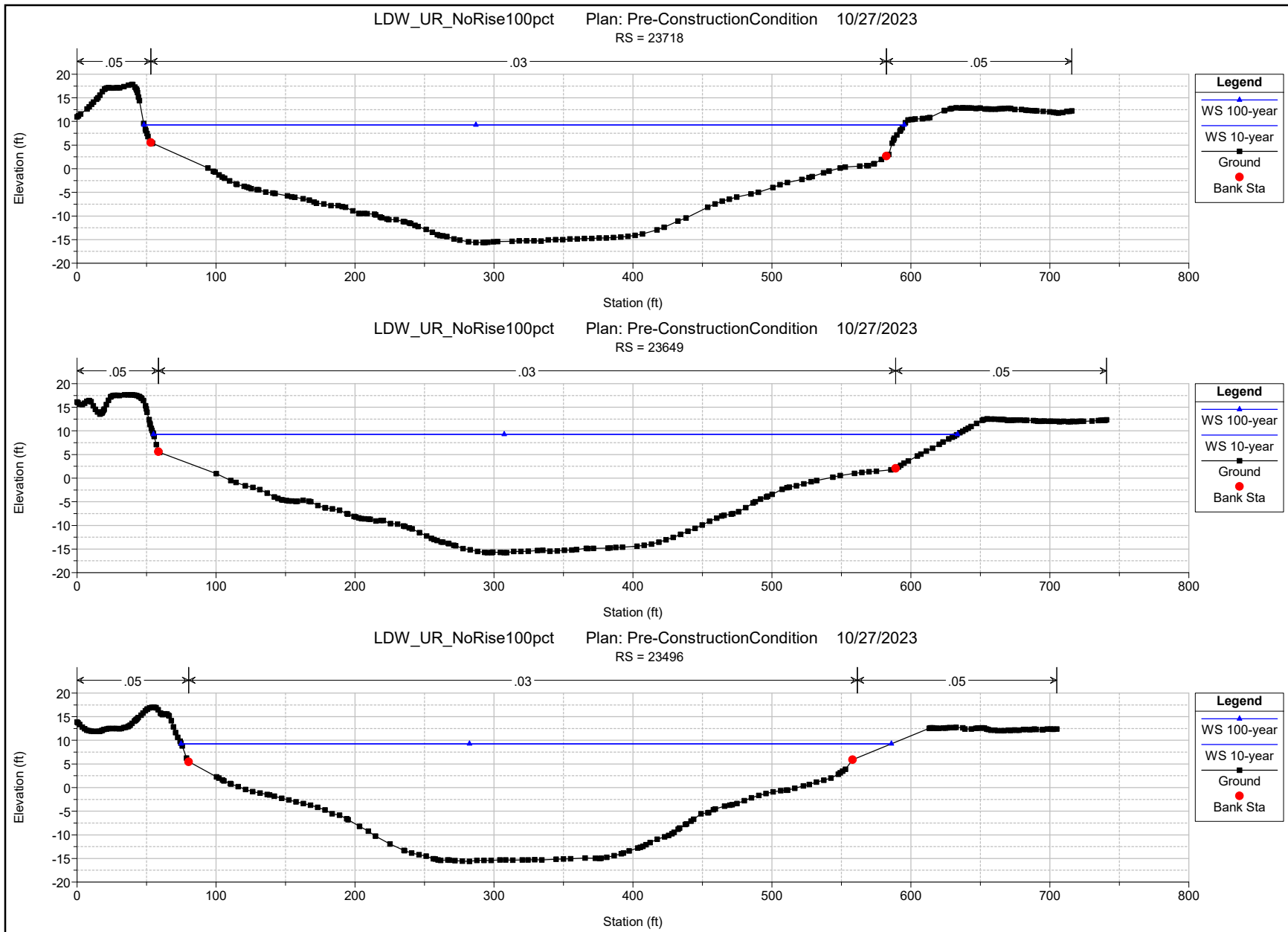


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
RS = 23924

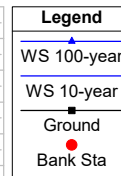
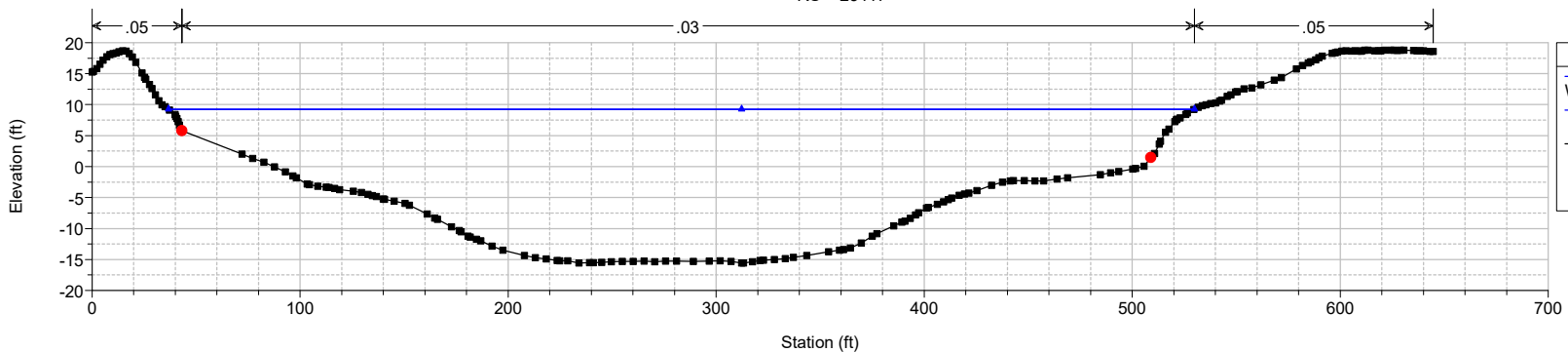


LDW\_UR\_NoRise100pct Plan: Pre-ConstructionCondition 10/27/2023  
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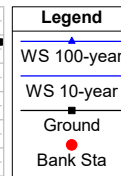
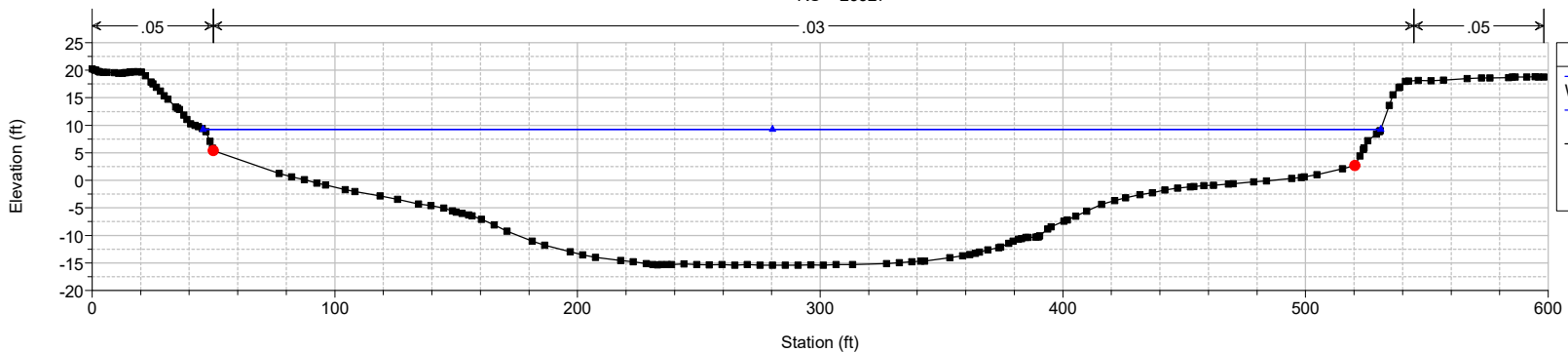




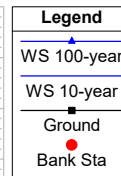
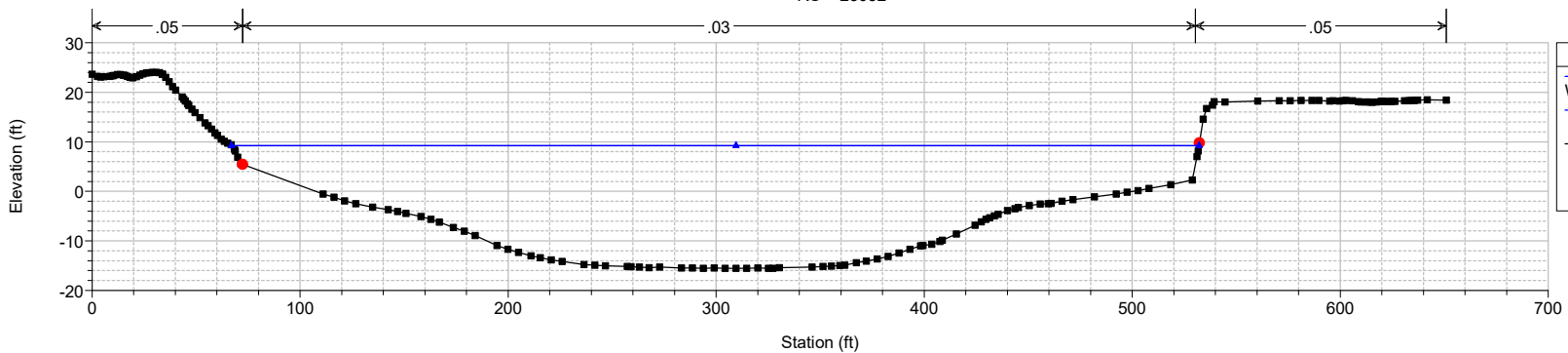
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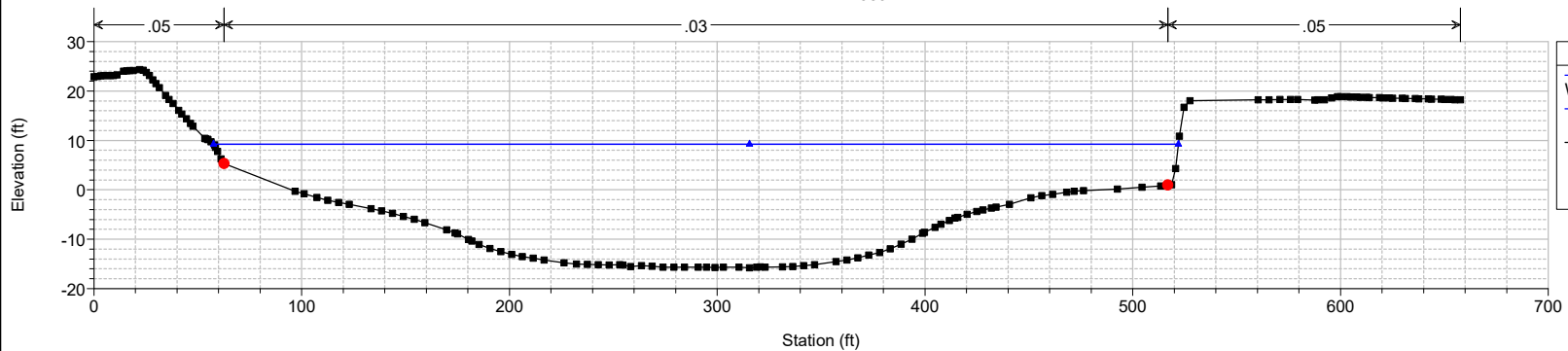
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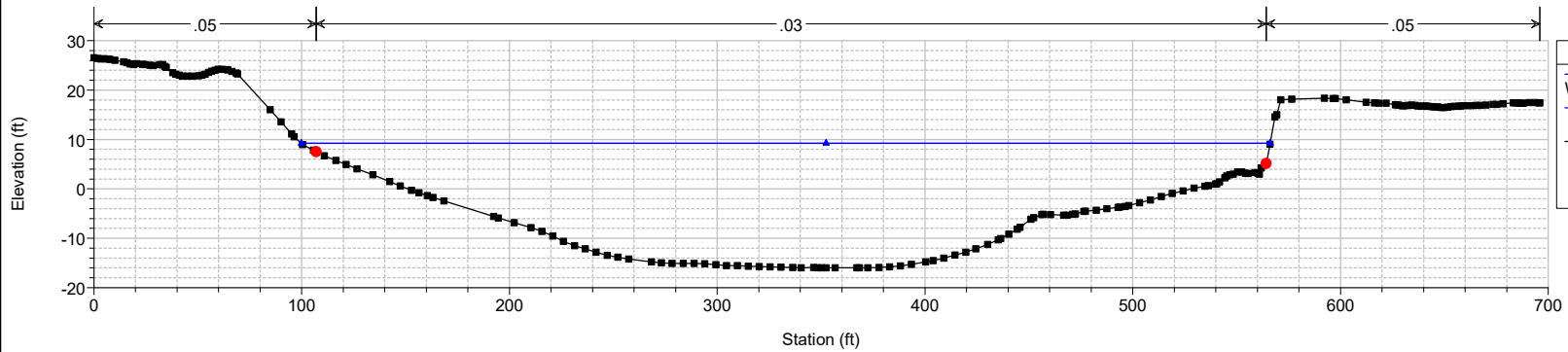
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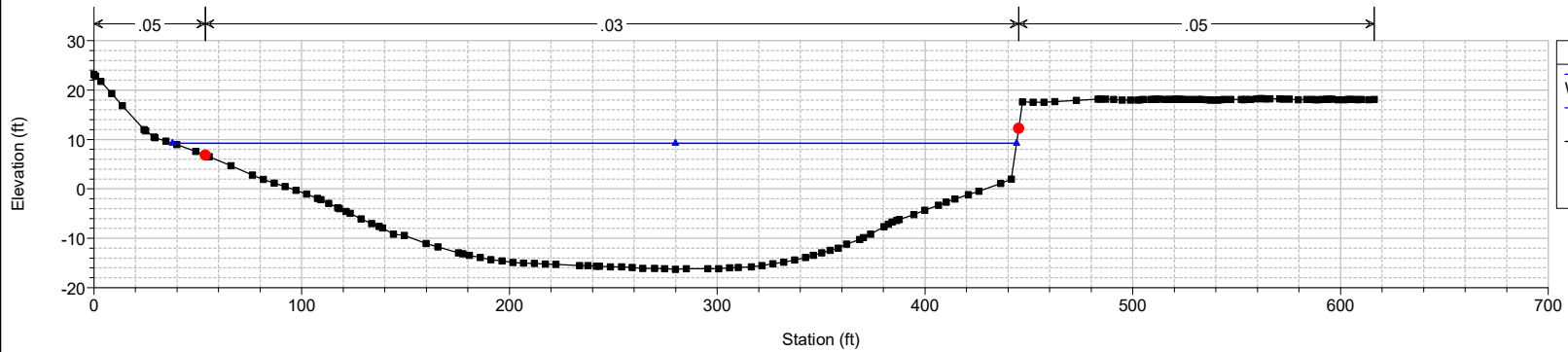
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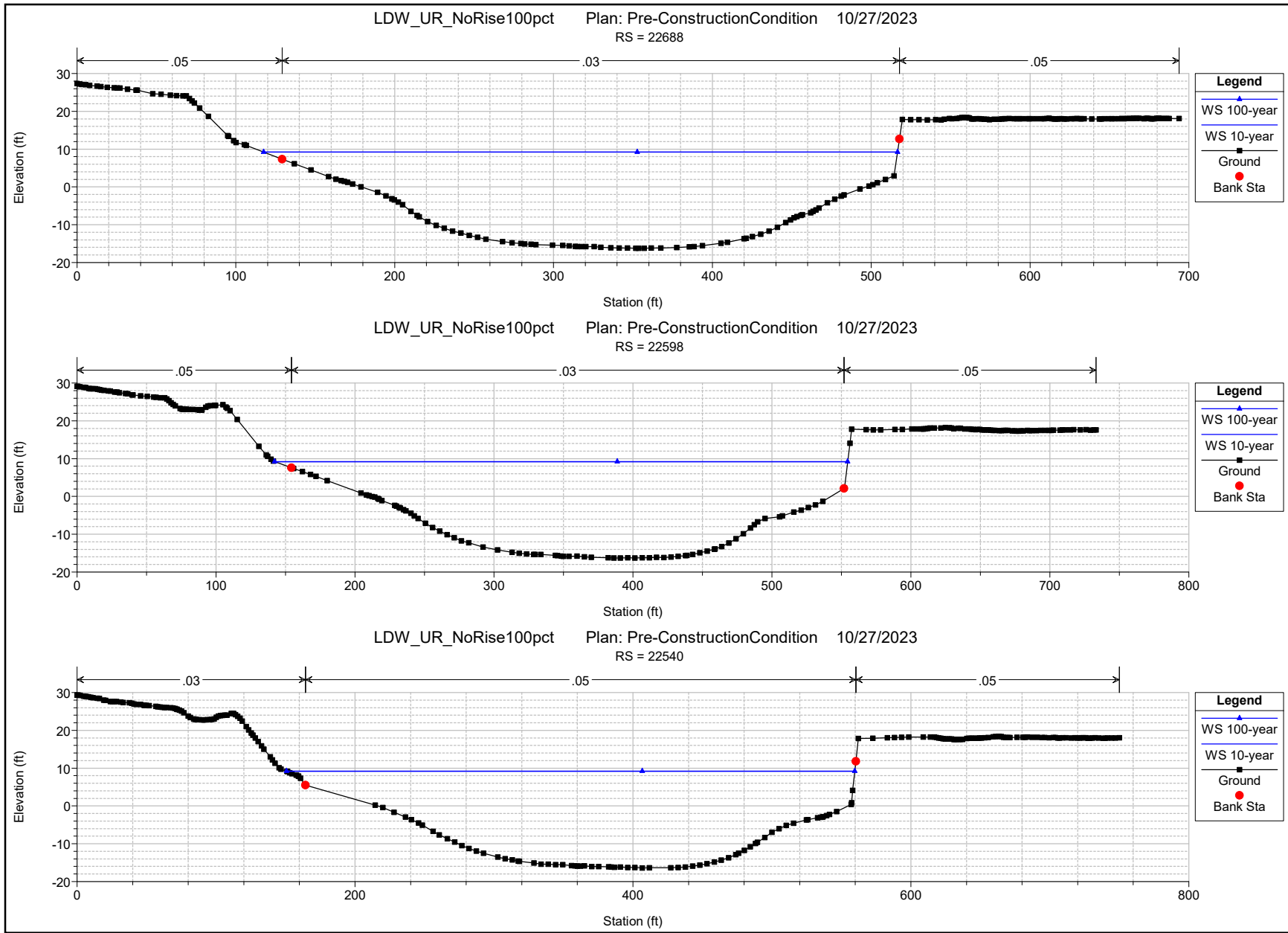


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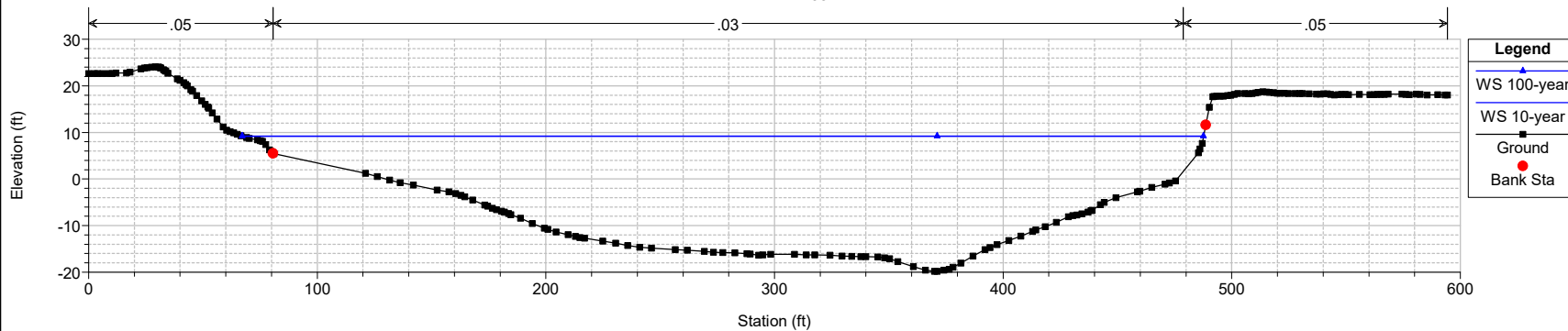


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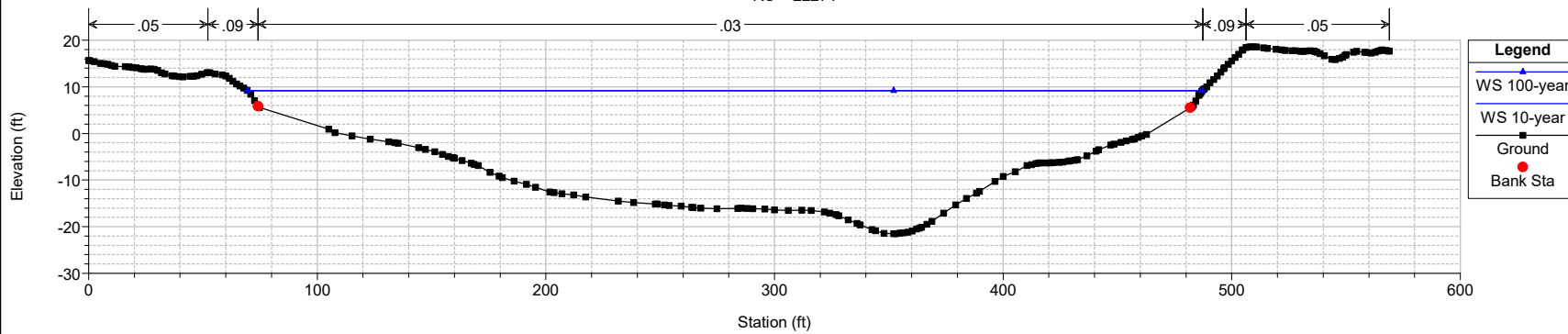




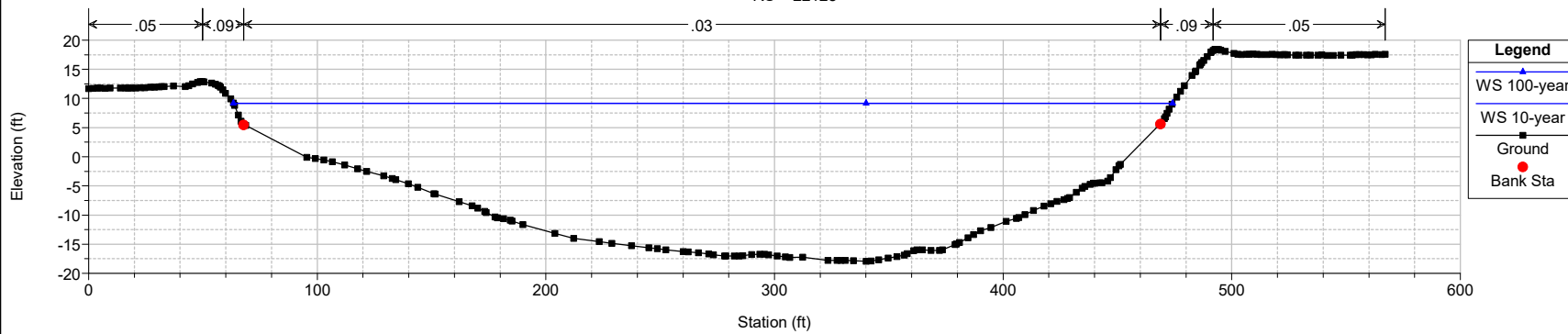
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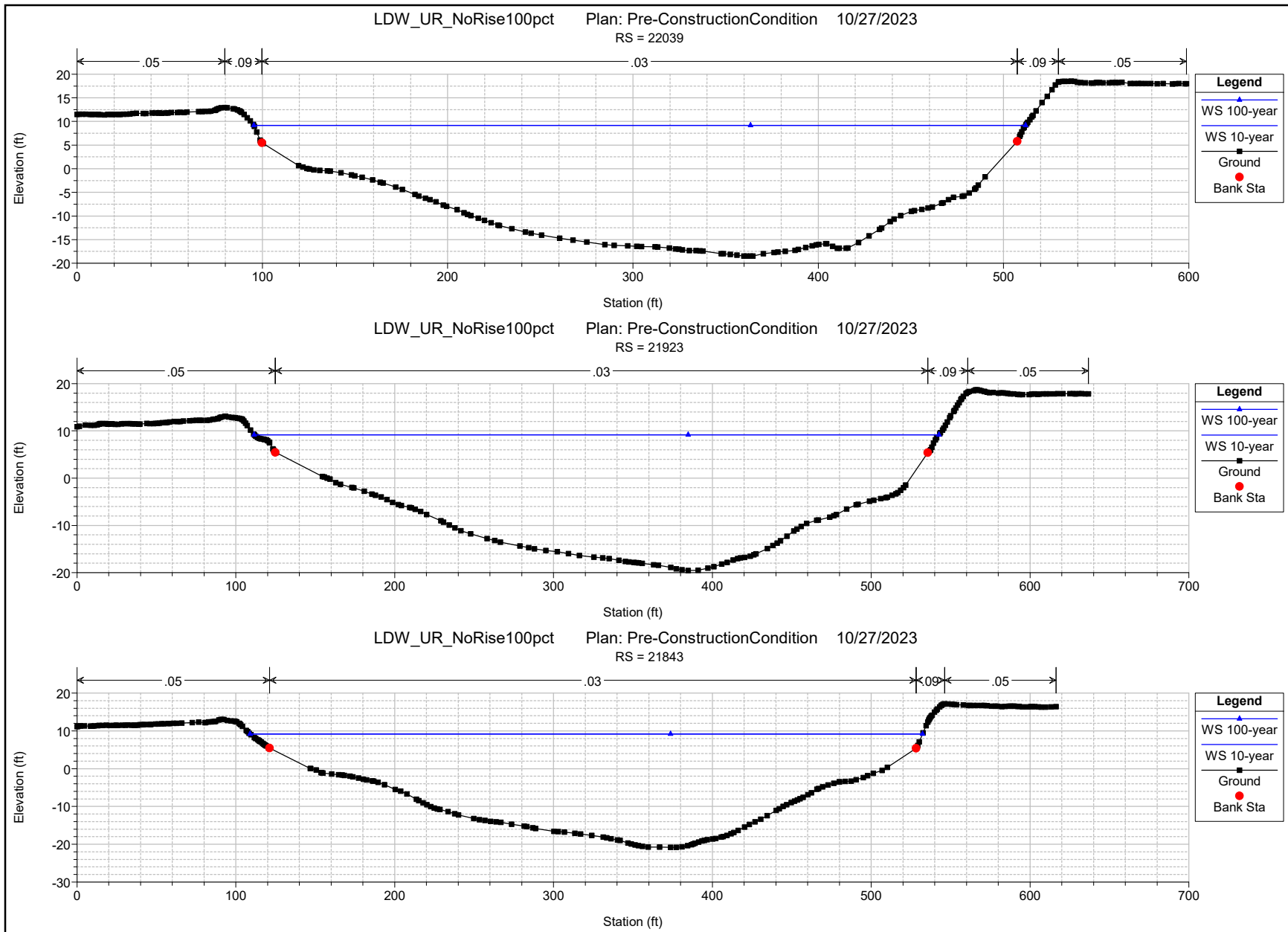


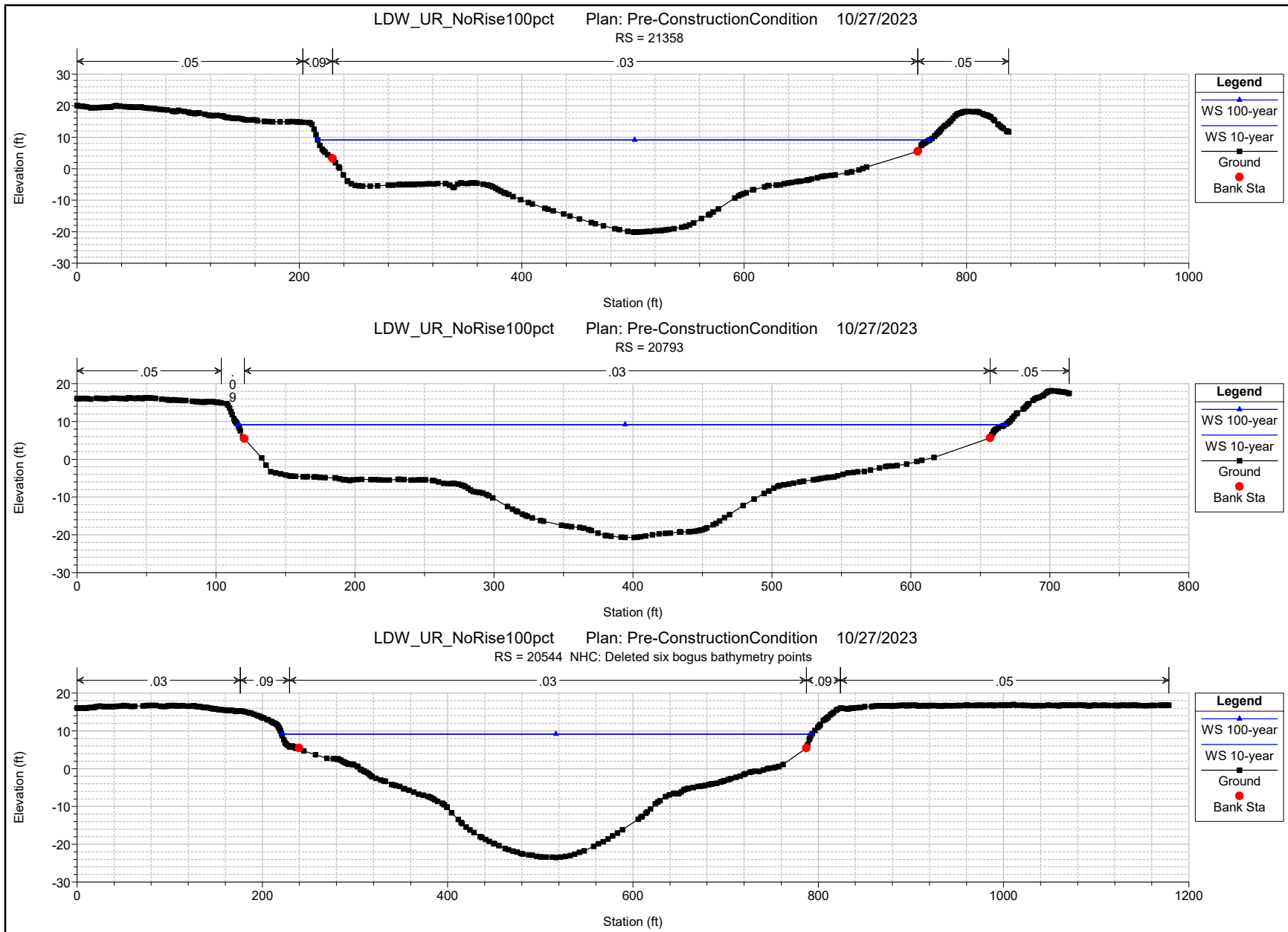
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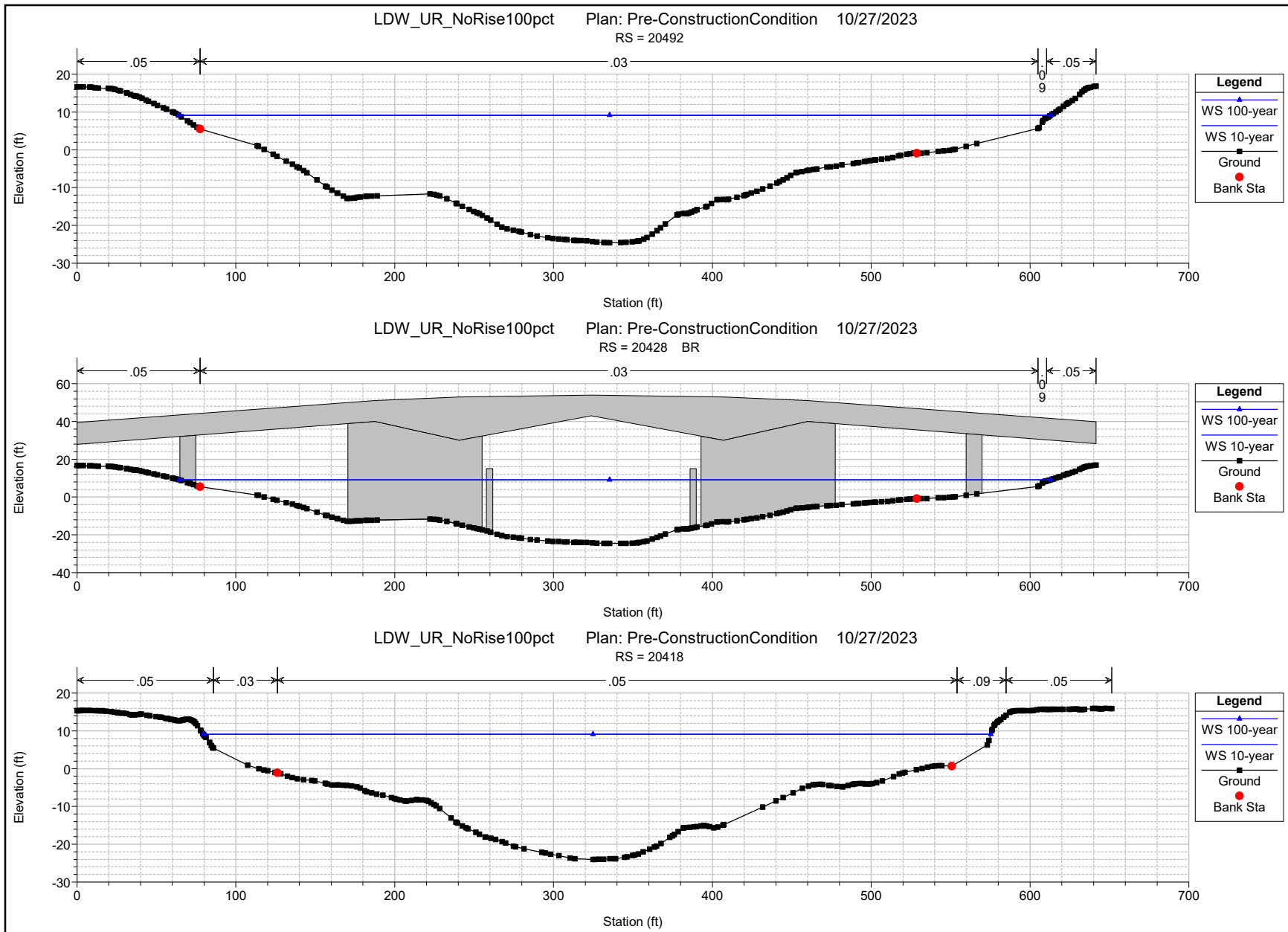
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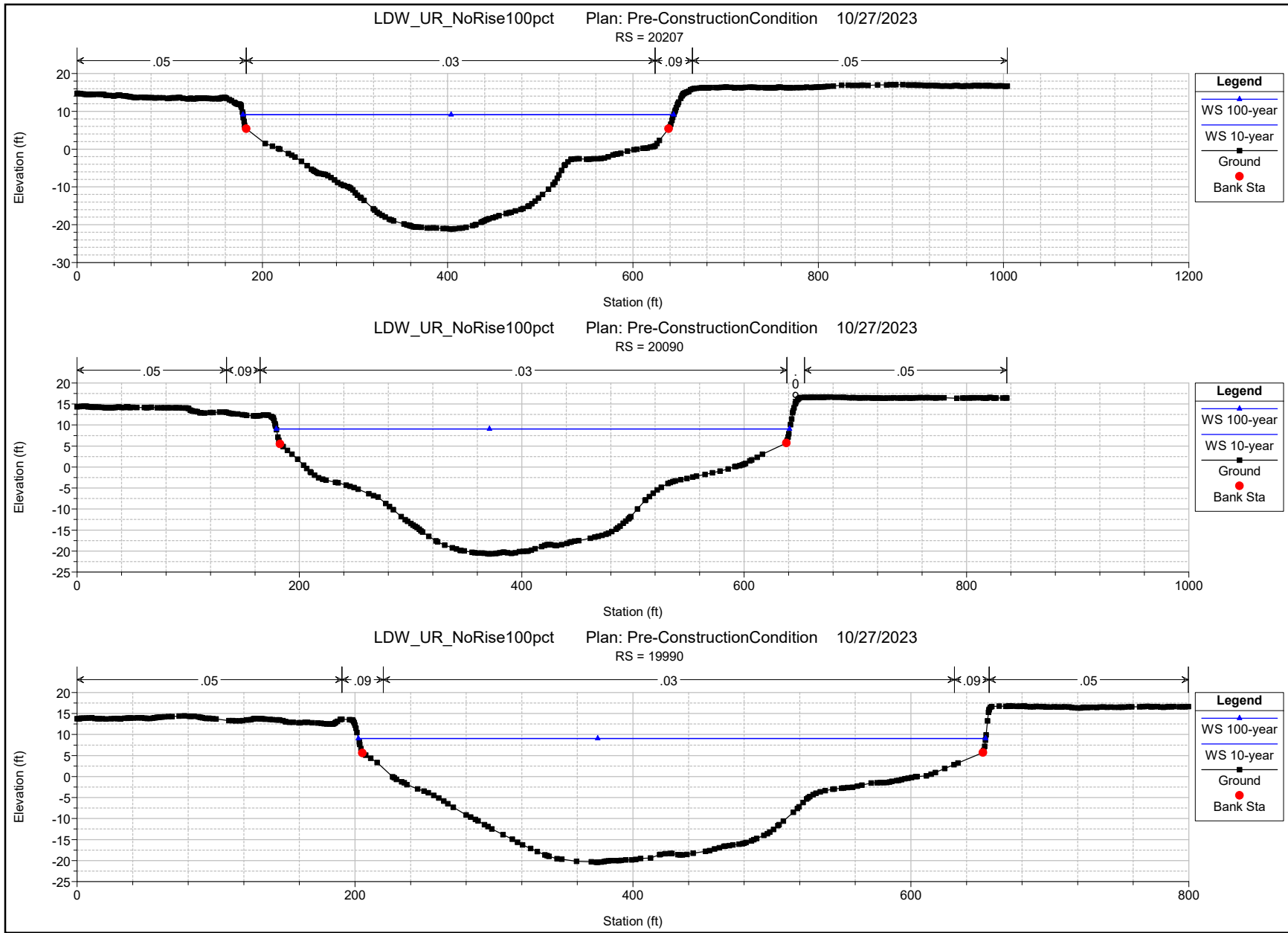


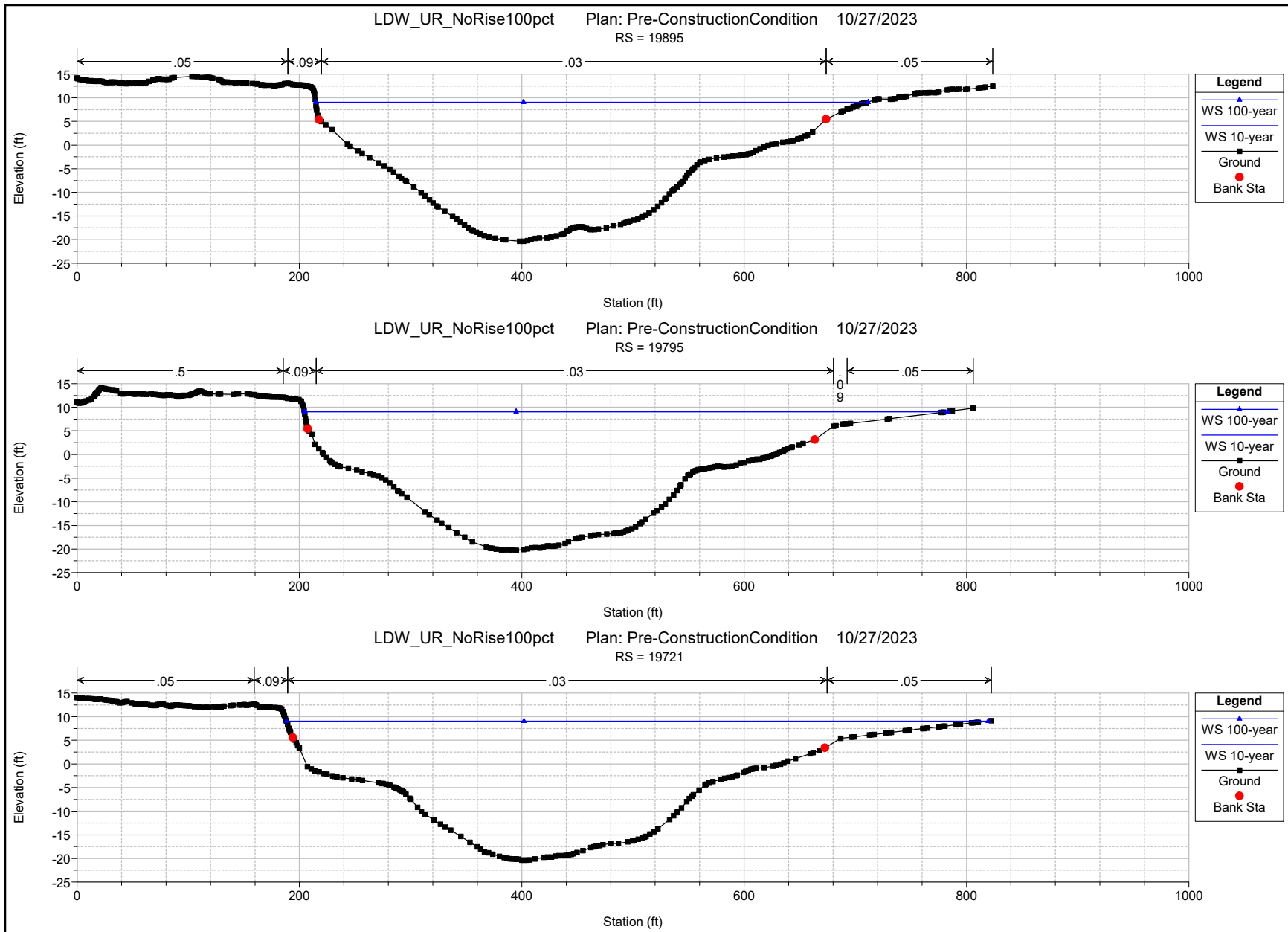


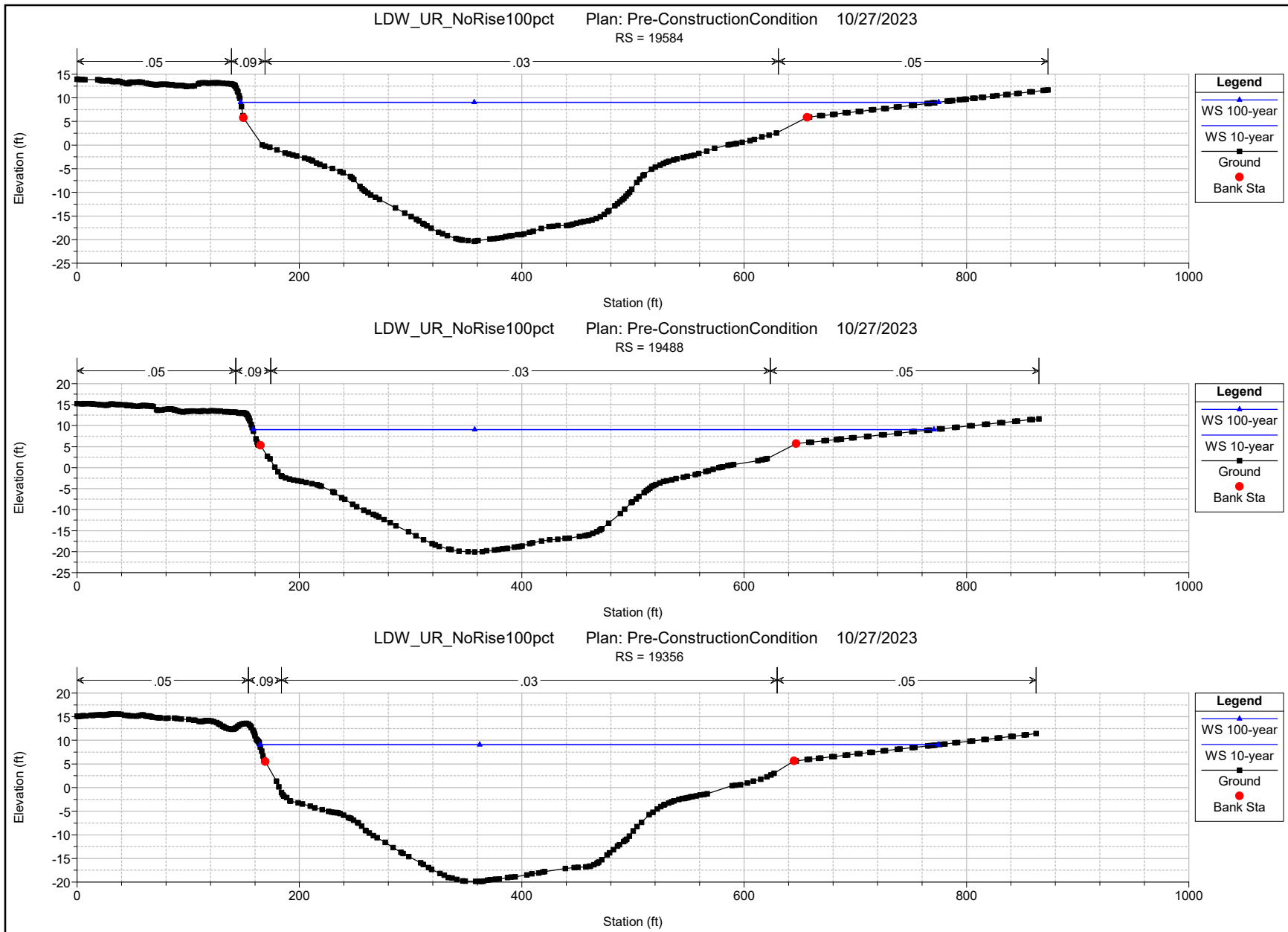


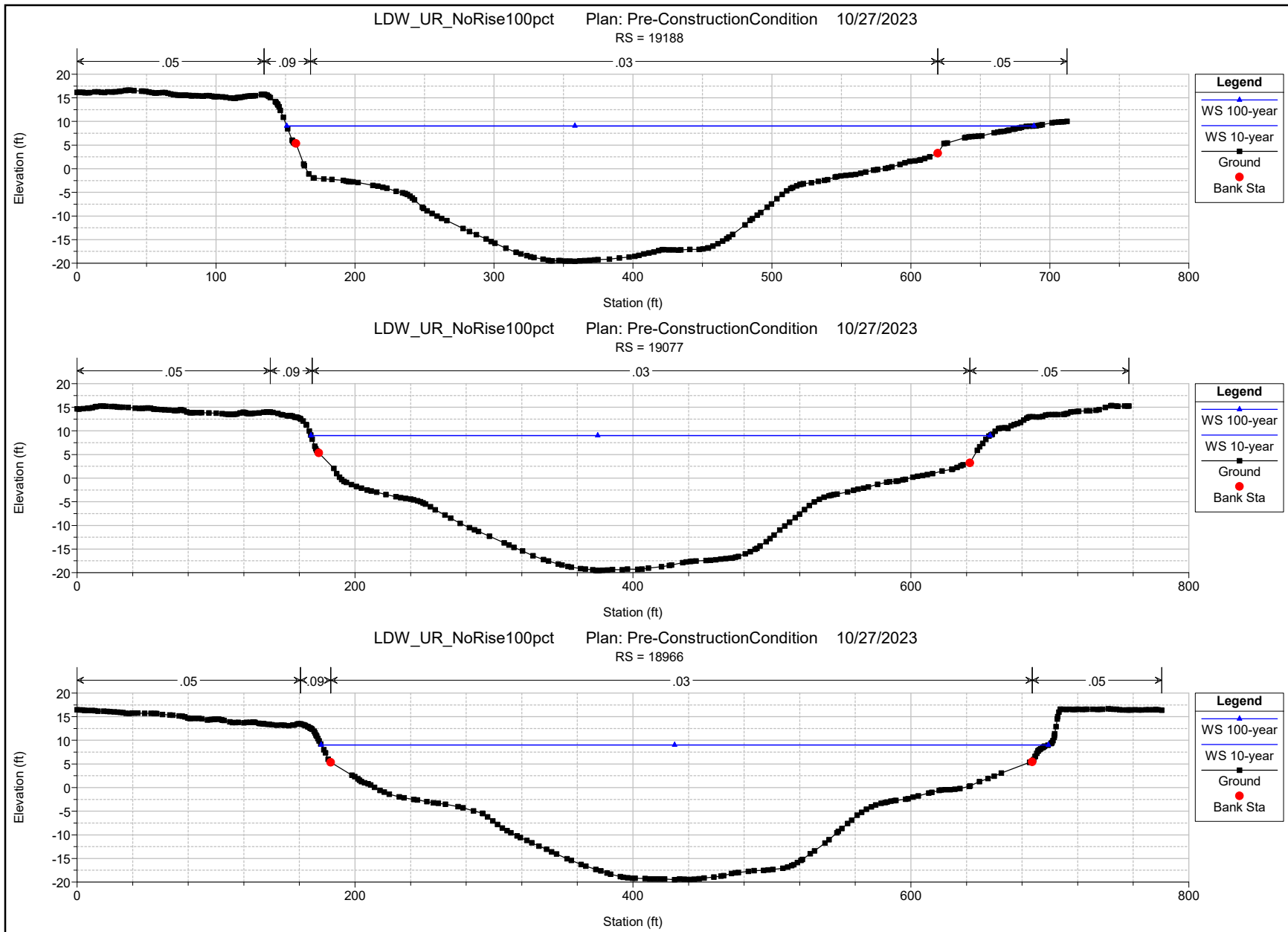


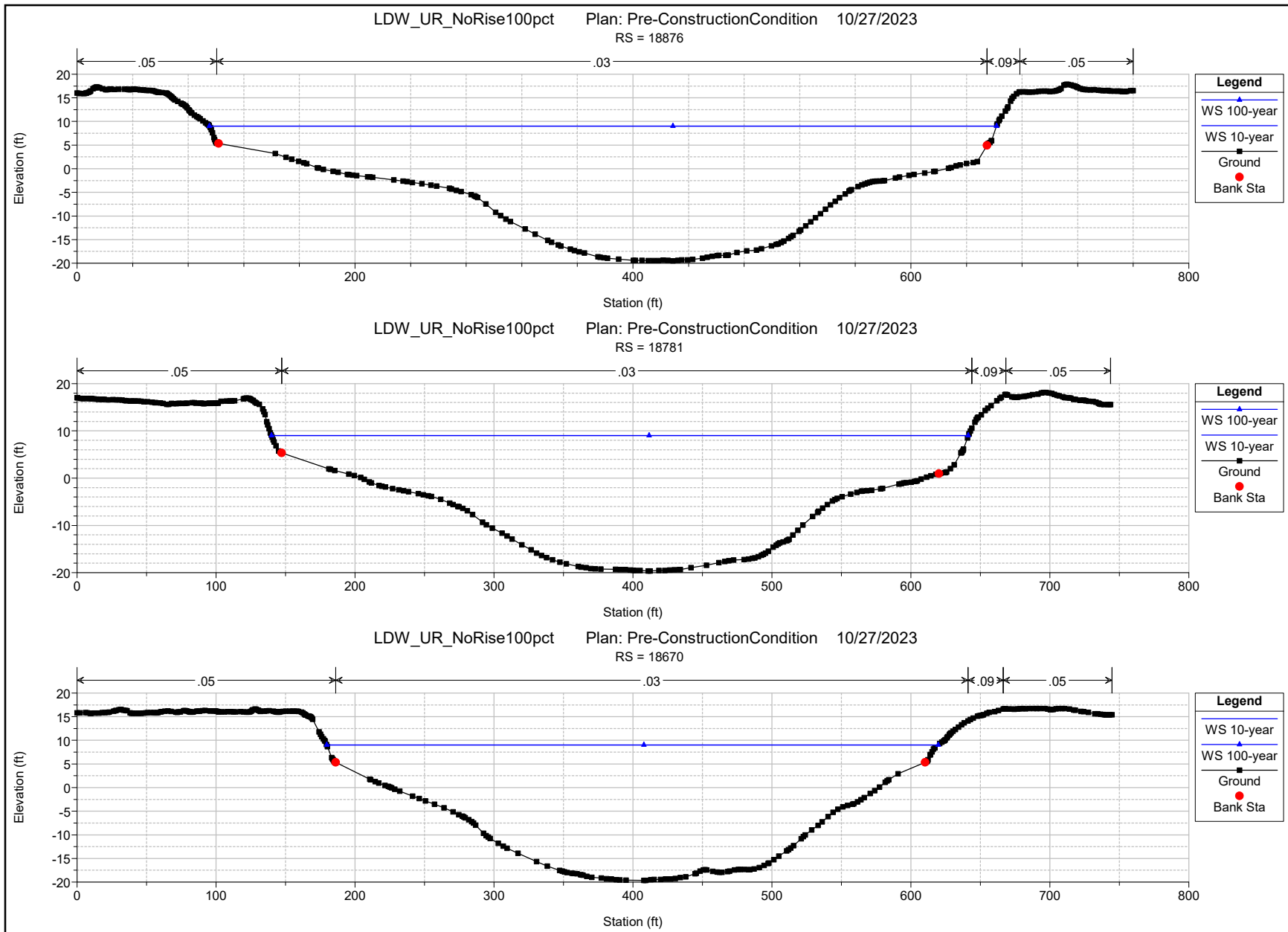












HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	339478	10-year	11060.00	1008.02	1024.910		1025.64	0.002852	6.85	1643.12	121.05	0.32
Mainstem	338369	10-year	11060.00	1005.35	1018.653		1020.36	0.009015	10.83	1144.39	127.35	0.57
Mainstem	337904	10-year	11060.00	1001.43	1014.199		1015.86	0.010294	10.83	1192.89	155.86	0.60
Mainstem	337482	10-year	11060.00	997.51	1009.060		1010.95	0.013129	11.14	1041.83	133.11	0.65
Mainstem	336700	10-year	11060.00	987.32	1001.478		1003.05	0.007890	10.24	1193.54	144.06	0.53
Mainstem	335935	10-year	11060.00	979.60	995.169		996.96	0.007895	11.07	1140.97	123.32	0.54
Mainstem	335127	10-year	11060.00	976.75	990.488		991.58	0.005294	8.50	1398.74	147.09	0.44
Mainstem	334335	10-year	11060.00	973.99	986.320		987.35	0.005378	8.22	1408.45	148.29	0.44
Mainstem	333485	10-year	11060.00	970.06	981.751		982.72	0.005437	8.06	1488.63	176.92	0.44
Mainstem	332814	10-year	11060.00	964.25	976.619		978.08	0.008926	10.11	1238.50	148.11	0.55
Mainstem	331901	10-year	11060.00	953.70	970.543		971.82	0.005371	9.18	1287.35	122.98	0.44
Mainstem	331251	10-year	11060.00	949.66	960.629	960.63	964.77	0.028597	16.58	715.97	95.44	0.97
Mainstem	330787	10-year	11060.00	936.35	952.475		954.49	0.008975	12.00	1116.50	123.95	0.57
Mainstem	330211	10-year	11060.00	928.46	949.341		950.71	0.004556	9.57	1262.32	97.44	0.41
Mainstem	329667	10-year	11060.00	928.53	946.779		948.08	0.005084	9.37	1290.88	107.07	0.43
Mainstem	328965	10-year	11060.00	927.65	942.491	938.39	943.96	0.006711	10.15	1293.03	155.46	0.50
Mainstem	328041	10-year	11060.00	921.69	933.570		935.80	0.011943	12.10	961.44	100.88	0.65
Mainstem	327027	10-year	11060.00	915.20	929.500		929.76	0.003160	6.86	1728.63	161.16	0.34
Mainstem	326288	10-year	11060.00	910.27	925.643		926.83	0.004947	8.89	1358.70	131.60	0.43
Mainstem	325755	10-year	11060.00	910.43	923.623		924.41	0.003791	7.19	1617.51	159.28	0.36
Mainstem	325206	10-year	11060.00	908.22	921.525		922.30	0.003880	7.31	1683.98	168.24	0.38
Mainstem	324789	10-year	11060.00	904.40	919.331		920.44	0.004929	8.75	1444.98	148.33	0.43
Mainstem	324519	10-year	11060.00	902.89	918.781		919.37	0.002478	6.31	1950.64	190.54	0.31
Mainstem	324255	10-year	11060.00	903.12	917.572		918.50	0.004148	7.88	1531.14	157.33	0.39
Mainstem	324060	10-year	11060.00	902.25	916.957		917.74	0.003345	7.20	1664.05	163.92	0.35
Mainstem	323706	10-year	11060.00	902.21	915.491		916.34	0.004861	7.96	1647.84	180.62	0.42
Mainstem	323226	10-year	11060.00	898.35	913.365		914.21	0.004033	7.90	1684.47	173.52	0.38
Mainstem	322877	10-year	11060.00	893.32	912.612		913.07	0.002237	5.65	2206.81	216.83	0.28
Mainstem	322692	10-year	11060.00	893.60	911.920		912.56	0.003397	6.69	1951.28	242.39	0.35
Mainstem	322539	10-year	11060.00	888.22	911.876	898.59	912.18	0.001097	4.54	2758.13	255.19	0.20
Mainstem	322360	10-year	11060.00	886.23	911.559	900.36	911.94	0.001529	5.15	2430.59	209.82	0.23
Mainstem	322323	10-year	11060.00	892.27	911.515	902.85	911.89	0.001543	5.08	2404.17	205.62	0.24
Mainstem	322106	10-year	11060.00	887.92	911.071	900.95	911.53	0.001590	5.51	2139.91	181.40	0.25
Mainstem	321990		Inl Struct									
Mainstem	321964	10-year	11060.00	879.22	893.856		894.53	0.003052	6.60	1723.62	153.54	0.33
Mainstem	321383	10-year	11060.00	874.07	890.895		892.22	0.005069	9.52	1315.15	119.08	0.44
Mainstem	320913	10-year	11060.00	871.33	889.111		890.12	0.003600	8.26	1466.48	116.71	0.37
Mainstem	320401	10-year	11060.00	869.76	883.535		886.59	0.015010	14.35	846.46	86.40	0.72
Mainstem	319910	10-year	11060.00	865.30	882.463		883.23	0.002803	7.21	1691.55	139.59	0.32
Mainstem	319419	10-year	11060.00	865.84	881.015		881.78	0.003085	7.10	1637.63	137.55	0.34
Mainstem	318690	10-year	11060.00	865.63	878.827		879.43	0.003257	6.37	1893.31	206.63	0.34
Mainstem	318664	10-year	11060.00	867.31	878.356		879.29	0.005721	7.88	1516.09	188.21	0.44
Mainstem	318109	10-year	11060.00	863.84	874.218		875.43	0.008540	9.24	1414.59	219.56	0.54
Mainstem	316832	10-year	11060.00	855.39	867.141		867.78	0.004247	6.45	1743.44	205.57	0.38
Mainstem	315623	10-year	11060.00	851.29	858.760	857.12	859.78	0.011804	8.51	1397.67	253.21	0.60
Mainstem	314635	10-year	11060.00	838.67	851.046		852.01	0.005590	8.20	1516.99	173.54	0.44
Mainstem	313801	10-year	11060.00	834.96	846.840		847.67	0.004736	7.38	1556.13	169.02	0.41
Mainstem	312903	10-year	11060.00	830.55	839.724		841.23	0.011922	9.97	1163.48	162.99	0.62
Mainstem	311853	10-year	11060.00	808.34	835.746		836.36	0.002245	6.46	1881.68	146.01	0.28
Mainstem	311340	10-year	11060.00	819.10	833.842		834.75	0.004592	7.67	1474.32	141.22	0.40
Mainstem	310533	10-year	11060.00	821.22	830.268	826.82	830.81	0.004834	6.16	2144.21	526.70	0.39
Mainstem	309830	10-year	11060.00	818.09	826.633		827.23	0.005418	6.26	1837.07	393.74	0.41
Mainstem	309107	10-year	11060.00	811.55	822.524	820.04	823.16	0.006045	7.47	1887.77	769.12	0.45
Mainstem	308368	10-year	11060.00	810.28	817.637	815.62	818.33	0.008772	7.50	1786.16	516.15	0.51
Mainstem	307956	10-year	11060.00	806.24	816.671		816.89	0.001717	3.96	2989.27	412.25	0.24
Mainstem	307708	10-year	11060.00	804.90	815.384		816.17	0.005171	7.17	1605.04	197.81	0.42
Mainstem	307660	10-year	11060.00	804.98	814.967		815.89	0.006719	8.00	1532.90	205.14	0.47
Mainstem	307402	10-year	11060.00	803.24	812.364		813.64	0.011022	9.60	1383.45	244.65	0.60
Mainstem	306984	10-year	11060.00	797.51	809.789		810.65	0.004743	7.73	1682.21	243.54	0.41
Mainstem	306816	10-year	11060.00	797.67	808.030		809.48	0.009726	9.90	1229.20	172.89	0.57
Mainstem	306324	10-year	11060.00	788.89	805.783		806.55	0.003560	7.17	1680.06	172.11	0.36
Mainstem	305628	10-year	11060.00	790.83	803.413		804.05	0.003475	6.44	1741.56	172.99	0.35
Mainstem	305538	10-year	11060.00	791.32	799.556	799.56	803.08	0.031006	15.23	760.10	113.46	0.99
Mainstem	304925	10-year	11060.00	783.64	795.339		796.13	0.004437	7.21	1620.35	178.57	0.39
Mainstem	304366	10-year	11060.00	782.00	792.935		793.68	0.004332	7.02	1674.10	187.28	0.39
Mainstem	303706	10-year	11060.00	776.97	790.563		791.23	0.003120	6.61	1737.55	168.05	0.34
Mainstem	303637	10-year	11060.00	777.26	788.979		790.77	0.010352	11.07	1117.12	135.63	0.60
Mainstem	303405	10-year	11060.00	775.70	789.576		789.78	0.000927	3.70	3204.24	293.77	0.19
Mainstem	302639	10-year	11060.00	773.65	788.033		788.64	0.002569	6.32	1882.03	183.21	0.31
Mainstem	301942	10-year	11060.00	772.59	781.425	780.69	784.34	0.023670	13.73	821.44	113.77	0.86
Mainstem	301509	10-year	11060.00	769.66	780.998		781.33	0.002187	4.87	2607.11	349.43	0.27
Mainstem	301066	10-year	11060.00	769.67	779.401		779.98	0.004169	6.32	1939.54	255.92	0.37
Mainstem	300464	10-year	11060.00	765.34	777.682	773.71	778.01	0.002504	5.52	2940.68	540.61	0.30
Mainstem	299856	10-year	11060.00	762.99	774.561		775.69	0.006076	8.66	1378.96	162.86	0.46
Mainstem	298758	10-year	11060.00	757.10	767.717		768.71	0.006563	8.18	1458.14	184.62	0.47

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	297428	10-year	11060.00	746.98	757.735		758.97	0.008195	9.18	1357.06	196.29	0.53
Mainstem	296831	10-year	11060.00	743.96	752.578		753.73	0.009352	8.74	1345.72	199.07	0.55
Mainstem	296245	10-year	11060.00	738.96	748.404	745.24	749.16	0.006362	6.99	1619.04	237.93	0.45
Mainstem	295786	10-year	11060.00	731.50	741.358	741.07	744.01	0.022184	14.07	1023.63	206.57	0.85
Mainstem	295136	10-year	11060.00	723.88	735.689		736.67	0.006113	8.07	1451.41	173.75	0.46
Mainstem	294624	10-year	11060.00	720.59	729.073	728.59	731.29	0.021095	12.39	1030.75	202.05	0.81
Mainstem	293890	10-year	11060.00	710.60	721.401		722.46	0.007238	8.30	1375.36	176.25	0.49
Mainstem	293679	10-year	11060.00	709.17	721.350		721.62	0.001526	4.20	2670.74	273.84	0.23
Mainstem	293161	10-year	11060.00	709.91	717.969		719.65	0.015107	10.45	1077.67	156.37	0.68
Mainstem	292459	10-year	11060.00	700.61	710.467	707.65	711.64	0.008706	8.74	1307.04	174.28	0.53
Mainstem	291699	10-year	11060.00	688.49	698.947	698.57	701.57	0.021453	13.38	955.51	184.39	0.83
Mainstem	290949	10-year	11060.00	680.04	692.971		694.00	0.005321	8.21	1403.52	145.73	0.43
Mainstem	290426	10-year	11060.00	679.06	687.178		689.21	0.018185	11.53	992.47	148.93	0.75
Mainstem	289597	10-year	11060.00	665.63	674.402	672.77	675.99	0.013744	10.38	1153.68	173.71	0.66
Mainstem	288827	10-year	11060.00	649.56	658.319	658.32	661.16	0.028088	14.05	909.52	180.39	0.93
Mainstem	287887	10-year	11060.00	641.14	653.272		653.81	0.003092	6.00	1981.65	228.73	0.33
Mainstem	287000	10-year	11060.00	636.25	648.019		649.48	0.008327	9.90	1241.15	164.82	0.54
Mainstem	286229	10-year	11060.00	629.18	636.143	635.91	638.62	0.028037	12.78	911.45	170.69	0.91
Mainstem	285532	10-year	11060.00	615.47	627.618		628.98	0.007790	9.42	1208.88	130.81	0.52
Mainstem	284719	10-year	11060.00	609.66	621.595	618.08	622.87	0.007255	9.28	1325.51	163.30	0.50
Mainstem	284053	10-year	11060.00	602.27	611.004	611.00	614.08	0.029127	14.42	842.74	147.83	0.95
Mainstem	283589	10-year	11060.00	597.58	607.634		608.30	0.005267	6.76	1788.25	254.07	0.41
Mainstem	282818	10-year	11060.00	591.35	600.803		602.30	0.012297	9.95	1171.18	171.99	0.63
Mainstem	282353	10-year	11060.00	586.31	594.470		596.01	0.014921	10.16	1162.22	190.06	0.68
Mainstem	281593	10-year	11060.00	569.44	580.495	579.30	583.27	0.018485	13.52	869.43	111.71	0.77
Mainstem	280949	10-year	11060.00	560.42	569.607		571.71	0.017068	11.68	974.72	138.59	0.74
Mainstem	280125	10-year	11060.00	552.35	565.203		565.88	0.003422	6.61	1702.23	162.78	0.35
Mainstem	279386	10-year	11060.00	549.44	558.923	557.45	561.07	0.015509	11.98	1008.81	148.59	0.72
Mainstem	278583	10-year	11060.00	540.98	550.902		552.09	0.007978	8.81	1308.51	160.17	0.52
Mainstem	278161	10-year	11060.00	536.98	547.118		548.49	0.008923	9.56	1242.92	160.30	0.55
Mainstem	277707	10-year	11060.00	530.49	541.260		543.40	0.014026	12.26	1051.24	147.66	0.69
Mainstem	277105	10-year	11060.00	524.29	536.023	532.95	537.17	0.007271	9.14	1429.65	178.91	0.50
Mainstem	276619	10-year	11060.00	518.92	528.042	528.04	530.92	0.026080	14.28	913.55	166.51	0.90
Mainstem	275943	10-year	11060.00	510.39	524.617		525.13	0.002278	5.76	1974.24	176.42	0.29
Mainstem	275458	10-year	11060.00	510.10	518.956	518.75	522.21	0.026869	14.78	813.10	124.21	0.93
Mainstem	274565	10-year	11060.00	498.10	510.567		511.62	0.006058	8.34	1414.84	167.03	0.46
Mainstem	273800	10-year	11060.00	494.39	504.414		505.80	0.009706	9.53	1202.39	151.34	0.57
Mainstem	272923	10-year	11060.00	485.76	497.648		498.79	0.006547	8.63	1320.86	143.85	0.48
Mainstem	272342	10-year	11060.00	482.77	494.312		495.29	0.005480	7.99	1431.89	150.08	0.44
Mainstem	271909	10-year	11060.00	477.04	487.262	487.26	490.42	0.029091	14.70	835.23	141.36	0.95
Mainstem	271535	10-year	11060.00	471.21	482.735		484.13	0.008735	9.65	1245.25	160.74	0.55
Mainstem	271038	10-year	11060.00	468.32	478.814		479.80	0.008162	8.01	1401.13	189.57	0.51
Mainstem	270579	10-year	11060.00	465.53	474.509		475.71	0.009860	8.89	1290.22	174.48	0.56
Mainstem	270114	10-year	11060.00	458.56	470.121		471.48	0.008332	9.45	1222.57	144.20	0.53
Mainstem	269729	10-year	11060.00	456.27	467.171	463.75	468.38	0.007493	8.95	1300.85	151.08	0.51
Mainstem	269264	10-year	11060.00	453.51	459.947	459.56	462.23	0.027567	12.18	930.44	173.10	0.89
Mainstem	268752	10-year	11060.00	442.46	457.345	452.57	457.93	0.003338	7.03	1876.87	210.57	0.34
Mainstem	268388	10-year	11060.00	433.14	455.786		456.78	0.002708	8.11	1463.67	92.01	0.33
Mainstem	268182	10-year	11060.00	432.18	455.701		456.24	0.001498	6.13	2074.67	139.12	0.24
Mainstem	267854	10-year	11060.00	431.80	447.971	447.97	453.46	0.026440	19.28	641.65	65.99	0.95
Mainstem	267516	10-year	11060.00	431.01	442.403		443.84	0.009132	9.68	1182.05	138.63	0.56
Mainstem	267115	10-year	11060.00	427.61	438.942	435.64	440.36	0.008378	9.65	1199.27	137.02	0.54
Mainstem	266561	10-year	11060.00	422.26	432.160		434.23	0.014059	11.69	1001.42	128.87	0.69
Mainstem	266133	10-year	11060.00	413.45	429.881		430.87	0.003819	8.09	1456.65	121.70	0.38
Mainstem	265668	10-year	11060.00	409.35	425.262		427.84	0.011756	12.94	881.06	75.64	0.63
Mainstem	265362	10-year	11060.00	407.68	423.879		425.17	0.005022	9.22	1265.05	105.27	0.43
Mainstem	265014	10-year	11060.00	408.22	419.734	417.92	422.22	0.015663	12.71	894.96	102.09	0.72
Mainstem	264370	10-year	11060.00	402.08	413.824		415.14	0.007439	9.25	1222.69	128.12	0.50
Mainstem	263657	10-year	11060.00	396.62	409.328		410.63	0.005501	9.21	1250.78	124.63	0.49
Mainstem	262743	10-year	11060.00	393.90	405.030		405.95	0.004545	7.75	1493.58	170.36	0.44
Mainstem	262221	10-year	11060.00	390.55	400.549		402.35	0.010980	11.27	1204.42	213.95	0.67
Mainstem	261645	10-year	11060.00	385.29	398.660		399.30	0.002575	6.46	1783.74	173.16	0.34
Mainstem	261318	10-year	11060.00	386.42	397.085		398.10	0.005344	8.22	1446.17	175.34	0.47
Mainstem	260996	10-year	11060.00	384.64	392.999	391.95	395.18	0.016147	11.88	948.67	144.61	0.78
Mainstem	260478	10-year	11060.00	379.66	388.171		389.23	0.007864	8.60	1486.16	250.22	0.55
Mainstem	260040	10-year	11060.00	375.12	386.124		386.80	0.003785	6.70	1758.63	222.43	0.40
Mainstem	259570	10-year	11060.00	371.15	384.408		385.09	0.003451	6.83	1819.69	237.27	0.38
Mainstem	259259	10-year	11060.00	371.04	382.807		383.77	0.005270	8.12	1530.58	202.51	0.47
Mainstem	258884	10-year	11060.00	367.97	381.095		381.90	0.004481	7.84	1835.31	265.17	0.43
Mainstem	258224	10-year	11060.00	363.49	376.409	374.46	377.89	0.008404	10.56	1388.82	388.05	0.59
Mainstem	257574	10-year	11060.00	360.44	373.109		373.89	0.004271	7.16	1613.19	196.17	0.42
Mainstem	256824	10-year	11060.00	356.90	366.879	365.88	368.70	0.012433	11.38	1191.11	217.87	0.70
Mainstem	256312	10-year	11060.00	353.50	362.474		363.66	0.007447	8.93	1346.73	189.99	0.55
Mainstem	255895	10-year	11060.00	348.37	360.144		361.11	0.004935	8.09	1548.55	210.72	0.45
Mainstem	255272	10-year	11060.00	345.52	357.465	354.30	358.16	0.004331	7.61	1976.45	278.46	0.43



HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	254850	10-year	11060.00	341.44	354.786		356.05	0.005712	9.17	1380.68	228.85	0.50
Mainstem	254464	10-year	11060.00	341.93	353.179		354.06	0.004214	7.59	1562.52	209.44	0.42
Mainstem	253778	10-year	11060.00	338.75	348.255		349.74	0.009933	10.23	1277.50	211.45	0.63
Mainstem	253398	10-year	11060.00	336.30	345.828		346.72	0.005848	7.62	1483.49	205.43	0.48
Mainstem	253039	10-year	11060.00	333.97	342.637		343.93	0.010430	9.29	1277.44	211.45	0.63
Mainstem	252732	10-year	11060.00	328.80	340.595		341.68	0.005154	8.50	1393.21	160.82	0.47
Mainstem	252004	10-year	11060.00	322.69	332.583	331.86	335.20	0.017727	13.10	894.66	140.27	0.83
Mainstem	251497	10-year	11060.00	320.14	328.886		329.77	0.006122	7.60	1509.04	221.74	0.49
Mainstem	251133	10-year	11060.00	317.25	325.429		326.82	0.010524	9.54	1212.78	200.99	0.63
Mainstem	250726	10-year	11060.00	313.97	321.570		322.70	0.009497	8.57	1336.39	226.44	0.59
Mainstem	250261	10-year	11060.00	307.64	317.637		318.85	0.007305	8.93	1290.67	168.73	0.54
Mainstem	249607	10-year	11060.00	304.74	314.312		315.03	0.004428	6.91	1706.91	225.23	0.42
Mainstem	248873	10-year	11060.00	297.75	310.580		311.64	0.004712	8.31	1384.33	143.46	0.45
Mainstem	248382	10-year	11060.00	297.88	307.597		308.81	0.007271	9.09	1354.14	185.29	0.54
Mainstem	247870	10-year	11060.00	294.56	304.754		305.62	0.005042	8.02	1787.25	303.03	0.46
Mainstem	247099	10-year	11060.00	285.52	297.804	296.25	299.85	0.011728	11.77	1051.21	146.68	0.68
Mainstem	246402	10-year	11060.00	282.89	292.913		293.97	0.005772	8.42	1432.31	182.93	0.49
Mainstem	245573	10-year	11060.00	275.96	288.758		289.75	0.004502	8.28	1519.59	176.55	0.44
Mainstem	244897	10-year	11060.00	275.58	284.474		285.74	0.008099	9.27	1321.73	191.32	0.57
Mainstem	244163	10-year	11060.00	269.05	280.326		281.23	0.004620	7.75	1509.42	175.23	0.44
Mainstem	243661	10-year	11060.00	266.28	276.408		278.01	0.009091	10.27	1135.71	143.85	0.61
Mainstem	242875	10-year	11060.00	260.71	272.781		273.56	0.003521	7.11	1617.79	173.42	0.39
Mainstem	242072	10-year	11060.00	256.43	269.537		270.50	0.004044	8.03	1511.52	173.44	0.42
Mainstem	241597	10-year	11060.00	256.23	266.861		268.09	0.006409	9.12	1343.36	169.47	0.52
Mainstem	240963	10-year	11060.00	253.60	263.486		264.39	0.005068	7.65	1466.64	174.02	0.45
Mainstem	240108	10-year	11060.00	249.71	258.346		259.29	0.007125	7.89	1487.77	238.27	0.52
Mainstem	239649	10-year	11060.00	246.12	256.196		256.80	0.003986	6.40	1934.49	312.77	0.40
Mainstem	239010	10-year	11060.00	243.44	253.289		254.05	0.004597	7.16	1670.12	229.59	0.43
Mainstem	238123	10-year	11060.00	240.02	249.771		250.44	0.003583	6.67	1752.88	207.85	0.39
Mainstem	237109	10-year	11060.00	232.64	244.892		246.00	0.005427	8.97	1526.58	205.32	0.49
Mainstem	236227	10-year	11060.00	228.82	240.156	236.44	241.26	0.005359	8.48	1366.19	212.52	0.48
Mainstem	235129	10-year	11060.00	224.81	233.766		234.72	0.006578	7.92	1490.26	234.38	0.51
Mainstem	234105	10-year	11060.00	220.18	230.080	226.15	230.41	0.002690	5.33	2861.82	478.04	0.33
Mainstem	232663	10-year	11060.00	217.31	225.877	223.81	226.21	0.003663	5.80	3639.74	1342.15	0.38
Mainstem	231739	10-year	11060.00	211.41	222.835	220.72	223.18	0.003095	6.05	3152.76	841.95	0.35
Mainstem	230303	10-year	11060.00	205.60	217.849	216.38	218.41	0.004140	7.18	2915.35	1232.16	0.41
Mainstem	229141	10-year	11060.00	201.84	213.704	209.41	214.30	0.003113	6.65	2176.65	990.13	0.37
Mainstem	227869	10-year	11060.00	198.88	209.074	205.93	209.74	0.004141	7.08	2046.50	912.38	0.41
Mainstem	226549	10-year	11060.00	194.48	205.188	200.65	205.59	0.002348	5.41	2679.11	655.89	0.31
Mainstem	225329	10-year	11060.00	181.71	202.089	195.38	202.69	0.002376	6.46	1997.55	439.53	0.32
Mainstem	224659	10-year	11060.00	188.52	200.432	195.57	200.96	0.002722	5.90	1933.89	599.85	0.34
Mainstem	224622		Bridge									
Mainstem	224574	10-year	11060.00	188.52	200.180	195.59	200.73	0.002919	6.01	1918.22	772.43	0.35
Mainstem	223545	10-year	11060.00	186.59	197.156	193.38	197.66	0.003005	6.13	2373.90	1367.86	0.35
Mainstem	222367	10-year	11060.00	181.37	192.366	188.35	193.31	0.004615	7.91	1515.91	191.91	0.44
Mainstem	221290	10-year	11060.00	177.50	188.007	183.89	188.72	0.003850	6.82	1740.85	241.80	0.40
Mainstem	219891	10-year	11060.00	168.42	181.059		182.24	0.005608	8.90	1411.12	178.00	0.49
Mainstem	218555	10-year	11060.00	163.48	176.263		176.86	0.002860	6.30	1972.10	343.73	0.34
Mainstem	217599	10-year	11060.00	161.68	172.917	168.73	173.62	0.004047	6.84	1712.62	213.96	0.40
Mainstem	217557		Bridge									
Mainstem	217504	10-year	11060.00	161.36	172.317	168.65	173.07	0.004808	7.06	1653.37	232.24	0.42
Mainstem	216549	10-year	11060.00	157.38	169.342	164.68	169.69	0.002554	5.68	2606.04	414.04	0.31
Mainstem	215223	10-year	11060.00	152.39	164.587	161.08	165.27	0.004589	7.33	2004.35	641.28	0.41
Mainstem	213972	10-year	11060.00	147.03	160.159	155.20	160.71	0.002930	6.19	2088.63	991.13	0.34
Mainstem	213418	10-year	11250.00	145.69	158.018	154.57	158.70	0.004428	7.34	2298.59	860.07	0.41
Mainstem	212061	10-year	11250.00	141.43	153.030	148.57	153.57	0.003221	5.94	2076.05	673.76	0.35
Mainstem	211121	10-year	11250.00	137.00	149.114	144.72	149.98	0.004518	7.77	1799.76	710.45	0.42
Mainstem	210762	10-year	11250.00	136.98	147.529	144.25	148.23	0.004887	7.26	2087.33	578.46	0.43
Mainstem	209679	10-year	11250.00	134.77	144.587	142.01	144.76	0.002149	4.45	4623.71	1904.06	0.28
Mainstem	208391	10-year	10835.00	132.45	139.735	138.31	140.08	0.007236	6.33	2549.72	1729.37	0.49
Mainstem	207092	10-year	10835.00	127.81	134.896	133.50	135.01	0.004369	4.47	4467.08	2688.46	0.37
Mainstem	205667	10-year	10835.00	127.16	134.060	132.00	134.09	0.000891	1.96	8454.24	3045.31	0.17
Mainstem	203988	10-year	10835.00	121.47	131.121	129.66	131.70	0.005726	7.45	2452.42	1438.63	0.46
Mainstem	202884	10-year	10835.00	116.15	127.566	124.13	127.79	0.002209	4.39	4151.24	2067.83	0.29
Mainstem	201332	10-year	10835.00	112.29	122.931	120.99	123.28	0.004218	6.03	2653.05	1802.70	0.40
Mainstem	200508	10-year	10835.00	111.53	121.118	118.56	121.25	0.002204	3.99	4047.83	1815.72	0.28
Mainstem	198924	10-year	11250.00	107.24	118.728	115.17	118.90	0.001404	4.23	4647.10	1340.09	0.24
Mainstem	198063	10-year	11250.00	100.65	116.393	113.13	117.04	0.004103	7.50	2760.47	879.43	0.40
Mainstem	196976	10-year	11250.00	104.00	115.022	110.72	115.11	0.000853	3.27	6821.13	1717.91	0.18
Mainstem	196242	10-year	11250.00	95.52	113.617	108.70	114.08	0.002570	6.21	2863.67	1408.21	0.32
Mainstem	195101	10-year	11250.00	100.46	110.715	108.55	111.02	0.002787	5.46	3592.61	1655.42	0.33
Mainstem	193966	10-year	11250.00	95.52	108.733	104.91	108.84	0.001319	2.87	5181.52	2312.66	0.20
Mainstem	192952	10-year	11250.00	97.96	107.541	104.63	107.64	0.001097	3.49	6176.25	2879.53	0.21
Mainstem	192134	10-year	11250.00	89.06	106.642	102.27	106.81	0.001250	4.22	4869.07	2631.77	0.22
Mainstem	191358	10-year	11250.00	93.92	104.655	100.39	105.26	0.003395	6.47	2068.53	1830.18	0.37

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	190143	10-year	11250.00	89.64	101.732	98.12	102.04	0.002007	5.45	3197.96	1665.10	0.29
Mainstem	188966	10-year	11250.00	86.96	99.375	95.45	99.67	0.002073	5.48	3777.61	1668.54	0.32
Mainstem	188448	10-year	11250.00	86.65	98.403	94.39	98.57	0.001333	4.36	4361.30	1949.09	0.25
Mainstem	188031	10-year	11250.00	82.88	97.619	95.00	97.85	0.001645	5.05	4435.94	2348.28	0.29
Mainstem	186759	10-year	11250.00	83.18	95.650	90.54	96.00	0.001567	5.35	3469.96	2487.93	0.29
Mainstem	185302	10-year	11250.00	80.45	93.283	89.68	93.57	0.001750	5.60	3661.09	1878.68	0.30
Mainstem	184214	10-year	11250.00	80.91	91.489	87.50	91.76	0.001578	4.98	3633.84	910.32	0.28
Mainstem	182831	10-year	11250.00	78.48	89.193	85.62	89.47	0.001782	5.18	3686.48	1464.41	0.30
Mainstem	182783		Bridge									
Mainstem	182730	10-year	11250.00	78.48	88.758	85.93	89.28	0.003059	6.53	2479.28	858.93	0.39
Mainstem	181817	10-year	11250.00	73.04	87.610	83.27	87.74	0.000907	3.94	5687.92	2929.41	0.22
Mainstem	181104	10-year	11250.00	75.65	84.142	84.14	85.92	0.015414	10.94	1259.99	2630.51	0.81
Mainstem	180264	10-year	11250.00	73.64	83.723	83.44	86.16	0.018484	12.55	928.79	2198.91	0.89
Mainstem	178865	10-year	11250.00	72.01	82.747	79.80	82.81	0.000612	2.85	7009.71	2456.50	0.17
Mainstem	177545	10-year	11250.00	68.87	82.528	78.22	82.54	0.000082	1.13	17780.14	3104.57	0.06
Mainstem	176268	10-year	11250.00	66.87	81.571	75.19	82.19	0.001898	6.47	1914.56	228.97	0.32
Mainstem	176225		Bridge									
Mainstem	176178	10-year	11250.00	66.87	81.376	75.34	82.00	0.002002	6.49	1929.12	969.33	0.33
Mainstem	176056	10-year	11250.00	66.87	80.895		81.70	0.002575	7.20	1780.06	1006.31	0.37
Mainstem	175940	10-year	11230.00	67.00	81.092	73.40	81.38	0.000884	4.37	2712.74	284.29	0.22
Mainstem	175919		Bridge									
Mainstem	175893	10-year	11230.00	65.37	80.968	73.19	81.31	0.001007	4.74	2575.60	421.32	0.24
Mainstem	175708	10-year	11230.00	66.02	80.596	73.51	81.07	0.001461	5.67	2167.78	204.69	0.28
Mainstem	175660		Bridge									
Mainstem	175555	10-year	11230.00	67.32	80.266	74.26	80.78	0.001764	5.81	2068.22	219.23	0.31
Mainstem	174462	10-year	11230.00	67.00	78.340	74.30	78.67	0.002003	5.35	3921.72	1551.46	0.31
Mainstem	173353	10-year	11230.00	65.06	76.350	73.15	76.59	0.001702	5.01	4746.38	1421.69	0.29
Mainstem	172540	10-year	11230.00	57.34	75.427	70.83	75.62	0.001313	4.47	5452.93	1816.32	0.25
Mainstem	171743	10-year	11230.00	64.05	74.996	68.65	75.06	0.000347	2.52	7983.73	1914.58	0.14
Mainstem	171209	10-year	11230.00	53.16	74.667	64.01	74.85	0.000496	3.92	5580.95	1448.53	0.17
Mainstem	170877	10-year	11230.00	49.99	74.498	62.42	74.69	0.000476	3.92	3960.61	1107.45	0.16
Mainstem	170697	10-year	11230.00	54.70	74.271	63.34	74.58	0.000635	4.57	3043.87	1098.29	0.20
Mainstem	170280	10-year	11230.00	51.75	74.089	62.14	74.31	0.000559	4.33	5773.08	1257.00	0.18
Mainstem	169351	10-year	11230.00	52.66	73.915	62.08	73.98	0.000201	2.60	10829.10	1790.89	0.11
Mainstem	168448	10-year	11230.00	46.54	73.477	60.70	73.69	0.000515	4.19	5576.55	1027.07	0.17
Mainstem	167556	10-year	11230.00	51.17	73.006	61.26	73.24	0.000501	4.07	3969.09	614.70	0.17
Mainstem	166774	10-year	11230.00	51.93	72.478		72.78	0.000648	4.49	2912.50	337.61	0.19
Mainstem	166008	10-year	11230.00	53.48	71.950	61.48	72.27	0.000694	4.61	2896.64	348.00	0.20
Mainstem	165195	10-year	11230.00	50.67	71.108		71.56	0.001067	5.62	2634.69	329.90	0.24
Mainstem	165137	10-year	11230.00	52.01	71.096		71.49	0.000869	5.15	2707.92	350.98	0.22
Mainstem	164150	10-year	11230.00	48.79	70.313	58.46	70.71	0.000720	5.06	2242.69	238.59	0.21
Mainstem	164108		Bridge									
Mainstem	164060	10-year	11230.00	48.79	70.098	58.40	70.47	0.000669	4.91	2286.17	178.51	0.20
Mainstem	163506	10-year	11230.00	53.45	69.495	61.05	69.97	0.001250	5.66	2264.43	218.54	0.26
Mainstem	162645	10-year	11230.00	50.09	68.830	60.72	69.08	0.000762	4.52	3491.20	532.23	0.21
Mainstem	161505	10-year	11230.00	45.86	67.802	57.66	68.15	0.000878	5.19	3877.97	631.13	0.22
Mainstem	160391	10-year	11230.00	44.32	66.422	56.17	66.96	0.001267	6.07	2110.80	201.22	0.25
Mainstem	159509	10-year	11230.00	51.51	65.618	57.50	65.95	0.000928	4.63	2537.19	225.20	0.23
Mainstem	158822	10-year	11230.00	48.13	65.274	55.94	65.44	0.000496	3.48	4291.44	492.61	0.17
Mainstem	158078	10-year	11230.00	41.74	64.330	53.50	64.87	0.001153	6.02	2158.91	189.21	0.25
Mainstem	157777	10-year	11230.00	49.91	63.973	56.86	64.48	0.001396	5.90	3041.25	584.17	0.29
Mainstem	157576	10-year	11230.00	49.71	63.693	57.34	64.18	0.001512	5.95	2509.10	513.71	0.30
Mainstem	157386	10-year	11230.00	50.16	63.339	57.22	63.87	0.001656	6.19	2166.59	244.35	0.31
Mainstem	157180	10-year	11230.00	46.75	63.018	54.77	63.57	0.001270	6.06	2384.59	493.93	0.28
Mainstem	156953	10-year	11230.00	43.06	62.778	52.99	63.30	0.001043	5.91	2624.43	669.84	0.26
Mainstem	156895	10-year	11230.00	41.91	62.765	52.25	63.23	0.000977	5.58	2429.32	322.33	0.24
Mainstem	156879		Bridge									
Mainstem	156869	10-year	11230.00	41.91	62.713	52.27	63.14	0.000915	5.34	2515.89	325.53	0.23
Mainstem	156768	10-year	11230.00	41.40	62.503	52.74	63.03	0.001074	6.03	2837.59	559.94	0.26
Mainstem	156610	10-year	11230.00	37.02	62.432	50.90	62.85	0.000791	5.41	3149.27	515.11	0.22
Mainstem	156362	10-year	11230.00	45.47	61.960	54.18	62.57	0.001453	6.38	2252.81	453.40	0.30
Mainstem	156161	10-year	11230.00	45.41	61.764	53.50	62.28	0.001212	5.81	2343.69	408.25	0.27
Mainstem	155992	10-year	11230.00	45.99	61.570	53.38	62.07	0.001189	5.75	2205.68	218.97	0.27
Mainstem	155771	10-year	11230.00	46.02	61.271	53.59	61.80	0.001308	5.90	2103.61	208.20	0.28
Mainstem	155570	10-year	11230.00	46.20	61.071	53.34	61.53	0.001176	5.59	2402.40	1401.69	0.27
Mainstem	155390	10-year	11230.00	43.58	60.834	52.76	61.32	0.001173	5.88	2531.92	1363.70	0.27
Mainstem	155184	10-year	11230.00	43.89	60.646	52.07	61.07	0.000999	5.64	2758.78	1463.40	0.25
Mainstem	154947	10-year	11230.00	39.79	60.460	49.93	60.86	0.000788	5.29	3065.49	1384.05	0.22
Mainstem	154746	10-year	11230.00	41.84	60.438	49.42	60.69	0.000505	4.14	3651.91	1446.84	0.18
Mainstem	154577	10-year	11230.00	41.92	60.276	50.15	60.58	0.000667	4.68	3503.26	1288.67	0.20
Mainstem	154350	10-year	11230.00	40.01	60.167	50.82	60.42	0.000641	4.43	4196.59	1438.19	0.20
Mainstem	154155	10-year	11230.00	39.19	59.933	50.38	60.27	0.000798	5.27	3826.59	1542.44	0.22
Mainstem	153954	10-year	11230.00	42.67	59.853	50.93	60.09	0.000655	4.44	4192.31	1523.03	0.20
Mainstem	153743	10-year	11230.00	42.59	59.640	50.74	59.94	0.000765	4.83	3623.63	1478.09	0.22
Mainstem	153548	10-year	11230.00	43.96	59.531	50.26	59.79	0.000643	4.37	4051.32	1448.62	0.20

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	153347	10-year	11230.00	41.96	59.245	49.70	59.63	0.000849	5.28	3752.06	590.51	0.23
Mainstem	153136	10-year	11230.00	36.92	59.055	47.88	59.46	0.000772	5.42	3871.56	569.83	0.22
Mainstem	152972	10-year	11230.00	32.11	58.923	46.86	59.34	0.000761	5.44	3496.17	397.06	0.22
Mainstem	152740	10-year	11230.00	40.47	58.746	48.80	59.15	0.000847	5.40	3626.02	451.48	0.23
Mainstem	152587	10-year	11230.00	41.27	58.687	48.63	59.00	0.000672	4.65	2980.35	434.08	0.21
Mainstem	152328	10-year	11230.00	38.77	58.349	48.10	58.79	0.000886	5.72	3162.27	349.97	0.24
Mainstem	152117	10-year	11230.00	38.21	58.314	48.06	58.58	0.000649	4.79	4534.04	383.15	0.20
Mainstem	151927	10-year	11230.00	36.91	58.170	48.13	58.45	0.000677	4.99	4606.59	409.23	0.21
Mainstem	151726	10-year	11230.00	37.04	58.086	47.91	58.31	0.000549	4.50	5308.47	506.99	0.19
Mainstem	151531	10-year	11230.00	37.91	58.048	47.21	58.20	0.000392	3.79	6796.12	550.32	0.16
Mainstem	151351	10-year	11230.00	39.90	57.984	47.31	58.12	0.000396	3.69	6735.71	553.97	0.16
Mainstem	151108	10-year	11230.00	37.92	57.738	47.50	58.00	0.000587	4.64	4869.52	743.39	0.19
Mainstem	150913	10-year	11230.00	37.45	57.400	46.69	57.84	0.000849	5.55	2691.54	566.66	0.23
Mainstem	150718	10-year	11230.00	36.75	57.275	46.56	57.67	0.000780	5.38	3225.00	503.16	0.22
Mainstem	150533	10-year	11230.00	36.08	57.133	46.35	57.52	0.000789	5.40	3699.76	540.13	0.22
Mainstem	150337	10-year	11230.00	36.43	56.872	46.34	57.35	0.000914	5.76	3220.76	895.47	0.24
Mainstem	150116	10-year	11230.00	38.91	56.740	46.86	57.13	0.000812	5.12	2590.49	497.97	0.23
Mainstem	149931	10-year	11230.00	36.59	56.516	45.99	56.97	0.000853	5.52	2349.14	520.89	0.23
Mainstem	149714	10-year	11230.00	37.99	56.405	45.39	56.78	0.000701	4.98	2575.67	604.68	0.21
Mainstem	149487	10-year	11230.00	39.95	56.289	46.13	56.61	0.000669	4.63	3039.01	398.45	0.21
Mainstem	149318	10-year	11230.00	37.91	56.099	45.80	56.48	0.000759	5.05	2685.92	375.71	0.22
Mainstem	149118	10-year	11230.00	35.55	55.911	45.45	56.33	0.000804	5.25	2580.83	375.33	0.23
Mainstem	148917	10-year	11230.00	36.41	55.817	44.77	56.16	0.000646	4.79	2585.13	201.58	0.20
Mainstem	148716	10-year	11230.00	35.37	55.647	44.29	56.02	0.000694	5.15	2608.62	204.72	0.21
Mainstem	148389	10-year	11230.00	35.33	55.340	44.13	55.77	0.000774	5.40	2878.14	426.53	0.22
Mainstem	148115	10-year	11230.00	34.85	55.338	43.40	55.56	0.000439	4.09	5553.13	853.89	0.17
Mainstem	147724	10-year	11230.00	32.96	55.225	43.82	55.38	0.000384	3.85	7852.05	967.80	0.16
Mainstem	147523	10-year	11230.00	33.85	55.144	43.56	55.30	0.000390	3.94	7430.23	743.88	0.16
Mainstem	147323	10-year	11230.00	34.82	55.087	43.67	55.22	0.000321	3.39	6388.76	657.71	0.14
Mainstem	147127	10-year	11230.00	33.61	55.057	44.09	55.16	0.000265	3.13	5119.80	544.01	0.13
Mainstem	146932	10-year	11230.00	31.45	54.853	42.17	55.08	0.000398	3.89	3371.02	329.80	0.16
Mainstem	146826	10-year	11230.00	33.81	54.604	43.57	55.01	0.000760	5.42	2988.68	366.28	0.22
Mainstem	146678	10-year	11230.00	34.71	54.626	42.38	54.87	0.000446	4.11	3454.90	287.01	0.17
Mainstem	146509	10-year	11230.00	34.24	54.441	43.25	54.78	0.000634	4.78	2832.37	231.14	0.20
Mainstem	146356	10-year	11230.00	32.88	54.368	42.22	54.68	0.000546	4.55	2732.53	190.31	0.19
Mainstem	146219	10-year	11230.00	29.15	53.935	42.15	54.55	0.001016	6.37	2013.58	155.93	0.25
Mainstem	146193		Bridge									
Mainstem	146166	10-year	11230.00	29.97	53.848	42.74	54.49	0.001089	6.53	2014.63	162.20	0.26
Mainstem	146013	10-year	11230.00	27.23	53.825	40.57	54.31	0.000736	5.64	2323.24	260.45	0.22
Mainstem	145818	10-year	11230.00	30.10	53.700	41.24	54.15	0.000742	5.55	2294.65	179.68	0.22
Mainstem	145401	10-year	11230.00	33.69	53.468	41.43	53.84	0.000643	4.99	2502.40	184.19	0.20
Mainstem	145168	10-year	11230.00	33.03	53.405	40.78	53.68	0.000484	4.25	3052.33	252.36	0.18
Mainstem	144957	10-year	11230.00	32.01	53.435	40.57	53.57	0.000254	2.99	4922.33	430.77	0.13
Mainstem	144741	10-year	11230.00	30.43	53.320	40.13	53.50	0.000342	3.74	5819.63	578.88	0.15
Mainstem	144614	10-year	11230.00	27.56	53.231	38.90	53.45	0.000403	4.21	5726.58	546.95	0.16
Mainstem	144461	10-year	11230.00	32.44	53.226	40.31	53.38	0.000308	3.46	6131.91	528.45	0.14
Mainstem	144308	10-year	11230.00	32.63	53.207	41.03	53.32	0.000276	3.00	6367.35	510.07	0.13
Mainstem	144149	10-year	11230.00	31.85	53.149	39.45	53.28	0.000239	3.08	5492.27	428.84	0.13
Mainstem	143964	10-year	11230.00	27.10	52.872	38.54	53.20	0.000500	4.61	2631.85	283.13	0.18
Mainstem	143716	10-year	11230.00	32.09	52.626	40.88	53.04	0.000721	5.22	2410.92	262.97	0.21
Mainstem	143025	10-year	11230.00	28.42	52.417	38.39	52.64	0.000366	3.94	3803.56	306.39	0.15
Mainstem	141868	10-year	11230.00	29.60	51.863	39.11	52.14	0.000499	4.42	3363.46	332.57	0.18
Mainstem	140638	10-year	11230.00	29.91	51.281	37.84	51.55	0.000455	4.39	3423.55	275.37	0.17
Mainstem	139281	10-year	11230.00	28.53	50.588	36.94	50.89	0.000511	4.54	2880.39	347.05	0.18
Mainstem	138563	10-year	11230.00	28.86	50.459	35.11	50.60	0.000246	3.10	4246.95	496.94	0.12
Mainstem	137766	10-year	11230.00	26.76	50.048	34.85	50.34	0.000407	4.39	3027.47	697.02	0.16
Mainstem	137280	10-year	11230.00	18.66	49.759	35.00	50.10	0.000573	4.84	2849.46	748.15	0.18
Mainstem	137248	10-year	11230.00	18.94	49.631	34.32	50.07	0.000524	5.54	2665.81	174.69	0.20
Mainstem	136499	10-year	11230.00	24.02	49.339	34.41	49.69	0.000421	4.85	2602.33	365.83	0.18
Mainstem	134904	10-year	11230.00	25.62	48.681	34.02	49.04	0.000396	4.94	2709.82	163.12	0.19
Mainstem	134160	10-year	11230.00	24.07	48.419	33.10	48.76	0.000359	4.80	2885.89	170.77	0.18
Mainstem	133262	10-year	11230.00	21.73	48.061	31.88	48.42	0.000377	4.91	2748.80	202.34	0.18
Mainstem	133204		Bridge									
Mainstem	133140	10-year	11230.00	21.73	47.901	32.03	48.36	0.000477	5.61	2600.55	173.21	0.20
Mainstem	132507	10-year	11230.00	21.64	47.577	32.26	48.03	0.000565	5.52	2417.49	149.81	0.20
Mainstem	132465		Bridge									
Mainstem	132417	10-year	11230.00	21.64	47.641	31.50	47.94	0.000328	4.50	2889.02	162.54	0.16
Mainstem	131139	10-year	11230.00	15.96	46.927	30.04	47.41	0.000520	5.71	2417.18	151.38	0.20
Mainstem	130490	10-year	11230.00	20.03	46.647	30.85	47.07	0.000463	5.42	2669.07	169.78	0.19
Mainstem	129777	10-year	11230.00	16.31	46.205	29.60	46.70	0.000572	5.78	2342.91	134.00	0.20
Mainstem	128816	10-year	11230.00	21.35	45.826	30.57	46.20	0.000408	5.02	2678.26	164.97	0.18
Mainstem	128109	10-year	11230.00	19.64	45.390	30.86	45.86	0.000531	5.64	2412.66	157.71	0.21
Mainstem	128082		Bridge									
Mainstem	128056	10-year	11230.00	19.64	45.410	30.72	45.82	0.000451	5.27	2649.11	165.26	0.20
Mainstem	127053	10-year	11230.00	19.06	44.698	30.34	45.25	0.000683	6.13	2262.65	159.03	0.22

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	127037		Bridge									
Mainstem	127016	10-year	11230.00	19.06	44.663	30.46	45.22	0.000703	6.17	2241.63	133.04	0.23
Mainstem	126958	10-year	11230.00	15.14	44.738	27.72	45.13	0.000499	5.22	2601.17	135.57	0.18
Mainstem	126942		Bridge									
Mainstem	126921	10-year	11230.00	15.14	44.664	27.75	45.11	0.000558	5.51	2445.29	128.52	0.19
Mainstem	125796	10-year	11230.00	18.94	44.304	29.08	44.65	0.000279	4.81	2806.60	170.13	0.18
Mainstem	125712		Bridge									
Mainstem	125627	10-year	11230.00	18.94	44.095	29.36	44.58	0.000390	5.71	2477.78	166.40	0.21
Mainstem	124872	10-year	11580.00	12.43	43.880	26.70	44.29	0.000325	5.24	2725.21	193.07	0.18
Mainstem	123953	10-year	11580.00	13.32	43.653	25.39	44.02	0.000249	5.00	3338.02	268.11	0.17
Mainstem	123161	10-year	11580.00	17.94	43.382	28.05	43.79	0.000320	5.19	2643.51	160.04	0.19
Mainstem	122448	10-year	11580.00	18.06	43.295	26.84	43.57	0.000205	4.24	3150.95	209.60	0.16
Mainstem	122412		Bridge									
Mainstem	122375	10-year	11580.00	18.06	43.224	27.28	43.54	0.000240	4.62	3065.37	198.75	0.17
Mainstem	121583	10-year	11580.00	16.81	43.041	25.75	43.35	0.000238	4.55	3096.75	181.36	0.16
Mainstem	120426	10-year	11580.00	15.94	42.715	26.08	43.06	0.000262	4.80	2958.65	180.02	0.17
Mainstem	119666	10-year	11580.00	16.84	42.542	26.24	42.86	0.000248	4.59	3067.72	182.72	0.17
Mainstem	118425	10-year	11580.00	10.95	42.256	23.48	42.56	0.000226	4.57	2988.51	160.97	0.16
Mainstem	117617	10-year	11580.00	15.01	42.040	24.90	42.37	0.000239	4.68	2946.08	170.88	0.17
Mainstem	116487	10-year	11580.00	14.03	41.868	23.91	42.11	0.000174	4.05	3287.80	175.82	0.14
Mainstem	116429		Bridge									
Mainstem	116371	10-year	11580.00	11.57	41.754	24.42	42.08	0.000242	4.67	2906.55	160.60	0.16
Mainstem	115241	10-year	11580.00	11.25	41.404	22.97	41.77	0.000301	4.97	2753.23	144.33	0.17
Mainstem	114465	10-year	11580.00	9.06	41.213	21.33	41.56	0.000244	4.84	3117.41	192.24	0.16
Mainstem	113747	10-year	11580.00	12.07	41.071	23.05	41.37	0.000231	4.50	3129.45	182.53	0.16
Mainstem	113008	10-year	11700.00	11.60	40.803	22.96	41.17	0.000299	5.05	2923.39	179.61	0.17
Mainstem	112401	10-year	11700.00	12.60	40.641	23.28	41.00	0.000273	4.88	2932.72	183.34	0.17
Mainstem	112369		Bridge									
Mainstem	112337	10-year	11700.00	13.63	40.657	23.90	40.97	0.000237	4.54	3076.34	195.71	0.16
Mainstem	112258	10-year	11700.00	14.03	40.661	23.55	40.94	0.000211	4.29	3045.20	164.75	0.15
Mainstem	112242		Bridge									
Mainstem	112226	10-year	11700.00	14.03	40.580	24.15	40.92	0.000257	4.78	2897.87	163.26	0.17
Mainstem	111661	10-year	11700.00	8.64	40.491	20.21	40.77	0.000217	4.40	3449.22	199.23	0.15
Mainstem	111160	10-year	11700.00	10.54	40.289	22.25	40.64	0.000287	4.86	2938.82	171.00	0.17
Mainstem	110959	10-year	11700.00	12.22	40.234	22.67	40.59	0.000258	4.85	2890.37	159.47	0.17
Mainstem	110410	10-year	11700.00	9.05	40.190	19.72	40.44	0.000165	4.11	3294.25	157.93	0.14
Mainstem	109776	10-year	11700.00	6.72	40.083	18.00	40.34	0.000165	4.15	3390.56	160.79	0.13
Mainstem	108673	10-year	11700.00	8.06	39.796	20.12	40.12	0.000241	4.70	3227.31	172.44	0.16
Mainstem	107928	10-year	11700.00	9.49	39.550	22.16	39.91	0.000310	4.97	3004.50	165.56	0.17
Mainstem	107063	10-year	11700.00	5.88	39.307	19.83	39.66	0.000271	4.84	2941.87	168.45	0.16
Mainstem	106308	10-year	11700.00	11.13	39.141	20.70	39.45	0.000241	4.56	3023.79	181.92	0.16
Mainstem	105120	10-year	11700.00	10.61	38.978	20.15	39.19	0.000159	3.78	3607.40	209.03	0.13
Mainstem	103794	10-year	11700.00	6.68	38.557	19.18	38.90	0.000290	4.84	3023.49	170.35	0.16
Mainstem	102469	10-year	11740.00	10.64	38.187	20.84	38.53	0.000270	4.77	2872.63	169.99	0.17
Mainstem	101820	10-year	11740.00	10.16	38.056	20.56	38.36	0.000231	4.45	3073.66	189.43	0.16
Mainstem	101719	10-year	11740.00	10.16	38.027	20.60	38.33	0.000252	4.46	2957.33	180.54	0.16
Mainstem	101566	10-year	11740.00	5.75	37.907	19.85	38.28	0.000329	4.97	2769.80	172.31	0.17
Mainstem	100716	10-year	11740.00	1.31	37.648	19.58	38.00	0.000310	4.86	2832.91	154.78	0.17
Mainstem	99333	10-year	11740.00	9.13	37.328	19.85	37.61	0.000232	4.32	3039.59	174.34	0.15
Mainstem	99312		Bridge									
Mainstem	99301	10-year	11740.00	9.13	37.307	19.84	37.60	0.000237	4.43	3083.46	177.23	0.16
Mainstem	98271	10-year	11740.00	8.17	36.767	21.59	37.27	0.000412	5.78	2525.13	182.36	0.21
Mainstem	97527	10-year	11740.00	5.97	36.653	18.32	36.96	0.000274	4.54	3130.28	233.49	0.16
Mainstem	96693	10-year	11740.00	6.79	36.574	16.03	36.78	0.000132	3.65	3520.10	184.07	0.12
Mainstem	95420	10-year	11740.00	8.70	36.161	19.10	36.53	0.000269	4.92	2781.26	177.81	0.17
Mainstem	94285	10-year	11740.00	7.88	35.784	20.52	36.18	0.000341	5.15	2704.84	175.88	0.19
Mainstem	94232		Bridge									
Mainstem	94195	10-year	11740.00	7.88	35.695	20.41	36.15	0.000371	5.55	2755.94	178.34	0.20
Mainstem	93065	10-year	11740.00	4.02	35.343	17.08	35.75	0.000313	5.22	2966.25	365.72	0.18
Mainstem	92020	10-year	11740.00	8.76	35.015	18.62	35.40	0.000339	5.10	2814.41	167.61	0.18
Mainstem	90932	10-year	11740.00	7.20	34.560	17.57	35.02	0.000347	5.54	2540.71	145.97	0.19
Mainstem	89786	10-year	11740.00	-1.09	34.384	12.89	34.65	0.000219	4.29	3465.64	230.49	0.14
Mainstem	89744		Bridge									
Mainstem	89691	10-year	11740.00	-1.09	34.306	12.96	34.62	0.000253	4.67	3444.78	263.38	0.15
Mainstem	88704	10-year	11740.00	6.87	33.964	18.08	34.34	0.000322	4.97	2719.16	158.79	0.18
Mainstem	87743	10-year	11740.00	7.95	33.799	16.97	34.06	0.000210	4.12	3262.15	194.40	0.15
Mainstem	86671	10-year	11930.00	5.51	33.462	16.18	33.79	0.000284	4.67	3044.05	173.19	0.17
Mainstem	86407	10-year	11930.00	5.77	33.389	16.29	33.71	0.000305	4.67	3180.23	184.97	0.16
Mainstem	86339	10-year	11930.00	6.58	33.402	15.73	33.68	0.000206	4.31	3350.99	188.69	0.15
Mainstem	85462	10-year	11930.00	2.43	32.953	15.34	33.42	0.000367	5.64	2666.93	159.20	0.19
Mainstem	84564	10-year	11930.00	4.42	32.755	15.22	33.11	0.000273	4.84	2932.18	168.11	0.17
Mainstem	83714	10-year	11930.00	-3.23	32.610	14.70	32.87	0.000222	4.17	3374.74	188.43	0.15
Mainstem	83181	10-year	11930.00	2.90	32.417	15.27	32.74	0.000260	4.59	2976.11	167.69	0.16
Mainstem	83091	10-year	11930.00	2.35	32.384	15.41	32.71	0.000364	4.62	2871.78	165.43	0.17
Mainstem	82342	10-year	11930.00	2.38	32.019	13.73	32.43	0.000353	5.31	2910.34	175.88	0.18

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	81333	10-year	11930.00	0.84	31.529	14.43	32.03	0.000440	5.83	2624.68	162.86	0.20
Mainstem	80504	10-year	11930.00	2.88	31.354	13.71	31.70	0.000269	4.79	2963.24	170.39	0.17
Mainstem	79728	10-year	11930.00	3.61	30.955	14.47	31.44	0.000384	5.72	2623.37	155.05	0.20
Mainstem	79052	10-year	11930.00	4.50	30.821	14.44	31.17	0.000298	4.79	2821.52	159.80	0.17
Mainstem	78978	10-year	11930.00	3.79	30.820	13.44	31.14	0.000234	4.62	2960.31	158.54	0.16
Mainstem	78852	10-year	11930.00	-0.49	30.683	14.74	31.10	0.000414	5.22	2620.71	156.34	0.19
Mainstem	77869	10-year	11930.00	3.20	30.078	14.27	30.64	0.000475	6.17	2378.39	145.75	0.22
Mainstem	77848	Bridge										
Mainstem	77832	10-year	11930.00	3.20	30.075	14.35	30.62	0.000478	6.07	2381.64	145.74	0.21
Mainstem	77579	10-year	11930.00	3.50	30.113	13.81	30.47	0.000281	4.89	2837.49	157.38	0.18
Mainstem	77400	10-year	11930.00	2.77	29.994	14.22	30.41	0.000430	5.30	2771.84	163.50	0.19
Mainstem	76740	10-year	11930.00	2.96	29.494	14.31	30.08	0.000499	6.30	2334.84	142.82	0.22
Mainstem	75662	10-year	11930.00	3.63	28.930	15.29	29.52	0.000551	6.32	2395.12	173.59	0.23
Mainstem	75610	Bridge										
Mainstem	75557	10-year	11930.00	3.63	28.972	14.05	29.42	0.000364	5.51	2548.96	161.47	0.20
Mainstem	74812	10-year	11930.00	2.01	28.763	12.37	29.15	0.000331	5.06	2783.47	162.25	0.18
Mainstem	74036	10-year	11930.00	1.60	28.269	13.28	28.83	0.000469	6.11	2393.21	152.33	0.22
Mainstem	73350	10-year	11930.00	3.13	28.099	12.99	28.51	0.000343	5.19	2674.72	160.28	0.19
Mainstem	72626	10-year	11930.00	2.18	27.738	12.72	28.23	0.000410	5.72	2498.02	152.49	0.21
Mainstem	71444	10-year	11930.00	-0.11	27.203	12.20	27.72	0.000444	5.86	2361.50	134.10	0.21
Mainstem	70520	10-year	11930.00	2.26	26.886	12.25	27.32	0.000375	5.36	2602.98	160.27	0.20
Mainstem	70483	Bridge										
Mainstem	70472	10-year	11930.00	2.26	26.885	12.17	27.29	0.000344	5.15	2608.48	156.96	0.19
Mainstem	69796	10-year	11930.00	2.09	26.655	12.22	27.05	0.000351	5.12	2624.34	151.31	0.19
Mainstem	68930	10-year	11930.00	2.12	26.224	12.95	26.71	0.000439	5.64	2395.68	152.89	0.22
Mainstem	68878	Bridge										
Mainstem	68814	10-year	11930.00	2.84	26.144	12.36	26.60	0.000449	5.53	2520.04	163.32	0.21
Mainstem	68181	10-year	11930.00	-2.79	25.989	10.71	26.33	0.000314	4.71	2680.41	154.04	0.18
Mainstem	67220	10-year	11930.00	-3.21	25.712	10.92	26.04	0.000292	4.66	3152.60	283.70	0.18
Mainstem	66327	10-year	11930.00	-0.29	25.304	11.16	25.73	0.000376	5.30	2585.60	168.19	0.20
Mainstem	65704	10-year	11930.00	2.34	25.116	11.18	25.49	0.000354	4.95	2770.87	185.25	0.19
Mainstem	65615	Bridge										
Mainstem	65535	10-year	11930.00	-0.46	25.046	10.27	25.34	0.000313	4.37	2952.60	192.27	0.17
Mainstem	65366	10-year	11930.00	-2.38	24.829	9.59	25.26	0.000445	5.38	2612.00	165.56	0.20
Mainstem	65314	Bridge										
Mainstem	65277	10-year	11930.00	-2.38	24.661	9.52	25.20	0.000548	6.00	2376.37	145.87	0.22
Mainstem	64907	10-year	11930.00	-1.17	24.394	10.90	24.99	0.000542	6.31	2237.45	142.11	0.24
Mainstem	64854	Bridge										
Mainstem	64812	10-year	11930.00	-2.16	24.437	8.62	24.90	0.000394	5.49	2475.11	150.96	0.20
Mainstem	64664	10-year	11930.00	-4.94	24.129	9.57	24.79	0.000759	6.63	2082.11	143.51	0.24
Mainstem	64611	Bridge										
Mainstem	64564	10-year	11930.00	-1.06	24.175	9.70	24.69	0.000478	5.84	2332.42	149.22	0.22
Mainstem	64490	10-year	11930.00	-2.57	24.308	7.35	24.60	0.000239	4.35	2951.31	157.61	0.16
Mainstem	64474	Bridge										
Mainstem	64453	10-year	11930.00	-2.57	24.285	7.34	24.59	0.000241	4.47	2959.34	160.75	0.16
Mainstem	63809	10-year	11930.00	3.01	24.098	10.69	24.41	0.000298	4.61	3105.01	207.42	0.18
Mainstem	62610	10-year	11930.00	2.08	23.741	10.59	24.06	0.000297	4.55	2877.77	178.38	0.18
Mainstem	61570	10-year	11930.00	-0.98	23.142	10.01	23.66	0.000471	5.83	2372.38	157.39	0.22
Mainstem	61533	Bridge										
Mainstem	61501	10-year	11930.00	-0.98	23.091	9.98	23.61	0.000471	5.84	2358.01	147.97	0.22
Mainstem	60646	10-year	11930.00	-0.37	22.802	10.16	23.19	0.000409	5.03	2487.46	159.08	0.21
Mainstem	60504	10-year	11930.00	-6.53	22.824	6.44	23.12	0.000259	4.39	2976.29	170.76	0.16
Mainstem	59796	10-year	11930.00	-4.05	22.472	7.13	22.89	0.000358	5.25	2523.20	145.91	0.19
Mainstem	59036	10-year	11930.00	-1.28	22.150	8.61	22.59	0.000449	5.33	2390.81	143.49	0.21
Mainstem	58075	10-year	11930.00	-2.23	21.794	8.71	22.16	0.000397	4.89	2643.29	173.07	0.20
Mainstem	58011	Bridge										
Mainstem	57980	10-year	11930.00	-0.91	21.807	8.00	22.11	0.000287	4.43	2883.75	182.79	0.17
Mainstem	57119	10-year	12410.00	1.48	21.470	9.95	21.82	0.000363	4.81	2839.43	197.30	0.20
Mainstem	57045	10-year	12410.00	0.97	21.484	8.79	21.78	0.000312	4.38	2948.67	189.62	0.18
Mainstem	56380	10-year	12410.00	-2.70	20.998	9.56	21.49	0.000552	5.66	2395.43	200.52	0.23
Mainstem	55672	10-year	12410.00	-0.24	20.801	8.31	21.13	0.000363	4.60	2849.38	208.80	0.19
Mainstem	54907	10-year	12410.00	-7.84	20.415	7.30	20.82	0.000431	5.13	2640.12	172.63	0.20
Mainstem	54896	Bridge										
Mainstem	54886	10-year	12410.00	-7.84	20.397		20.79	0.000418	5.05	2618.92	164.05	0.20
Mainstem	53756	10-year	12410.00	-0.71	20.019	7.99	20.34	0.000348	4.54	2925.93	262.32	0.19
Mainstem	52858	10-year	12410.00	-0.45	19.687	7.91	20.01	0.000378	4.67	3265.53	398.56	0.20
Mainstem	51855	10-year	12410.00	-7.58	19.271	6.27	19.61	0.000424	4.70	2933.39	242.47	0.20
Mainstem	50894	10-year	12410.00	-2.28	18.900	7.07	19.23	0.000357	4.67	2898.48	199.45	0.19
Mainstem	49959	10-year	12410.00	-4.51	18.541	6.93	18.88	0.000411	4.65	2771.71	209.62	0.20
Mainstem	48909	10-year	12410.00	-9.47	17.905	5.39	18.36	0.000555	5.47	2461.77	190.07	0.22
Mainstem	48877	Bridge										
Mainstem	48840	10-year	12410.00	-9.47	17.853	5.37	18.32	0.000594	5.54	2437.11	204.46	0.23
Mainstem	47583	10-year	12410.00	-3.57	17.305		17.65	0.000434	4.74	2794.54	237.16	0.21
Mainstem	46469	10-year	12410.00	-6.77	16.816		17.17	0.000429	4.78	2631.49	179.09	0.20
Mainstem	45651	10-year	12410.00	-8.06	16.299		16.75	0.000599	5.39	2380.36	172.95	0.24

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	44822	10-year	12410.00	-16.74	16.136		16.35	0.000281	3.73	3571.99	292.21	0.16
Mainstem	44030	10-year	12410.00	-10.52	15.740		16.07	0.000412	4.63	2793.01	189.28	0.20
Mainstem	43322	10-year	12410.00	-5.44	15.551		15.78	0.000325	3.89	3316.18	271.09	0.18
Mainstem	42557	10-year	12410.00	-3.65	15.167		15.49	0.000423	4.58	2825.23	224.86	0.21
Mainstem	41601	10-year	12410.00	-9.33	14.703	4.03	15.05	0.000489	4.77	2713.81	205.87	0.21
Mainstem	41554											
Mainstem	41506	10-year	12410.00	-9.33	14.492	4.70	14.97	0.000717	5.55	2335.86	176.49	0.25
Mainstem	40403	10-year	12410.00	-3.69	14.109		14.38	0.000343	4.14	3055.67	219.46	0.19
Mainstem	39077	10-year	12410.00	-7.62	13.556	2.70	13.88	0.000408	4.54	2776.75	188.80	0.20
Mainstem	39056											
Mainstem	39014	10-year	12410.00	-5.87	13.520		13.82	0.000368	4.40	2877.32	198.49	0.20
Mainstem	38343	10-year	12410.00	-5.39	13.221		13.55	0.000440	4.58	2734.62	191.71	0.21
Mainstem	37261	10-year	12410.00	-6.47	12.771		13.09	0.000401	4.54	2759.27	185.80	0.20
Mainstem	36226	10-year	12410.00	-9.10	12.377	2.07	12.67	0.000396	4.34	2886.96	207.23	0.20
Mainstem	36173											
Mainstem	36120	10-year	12410.00	-9.10	12.267	2.22	12.61	0.000468	4.73	2693.00	208.77	0.22
Mainstem	35434	10-year	12410.00	-4.42	11.998		12.29	0.000427	4.35	2867.48	216.53	0.21
Mainstem	34653	10-year	12410.00	-9.97	11.689	0.74	11.98	0.000369	4.35	2862.00	211.25	0.19
Mainstem	34579											
Mainstem	34510	10-year	12410.00	-9.97	11.578	0.91	11.92	0.000455	4.68	2675.54	181.84	0.21
Mainstem	33180	10-year	12410.00	-7.14	10.846	1.31	11.22	0.000604	4.92	2543.77	186.83	0.23
Mainstem	33164											
Mainstem	33137	10-year	12410.00	-5.66	10.713	2.61	11.17	0.000775	5.45	2328.46	209.64	0.27
Mainstem	31659	10-year	12410.00	-9.25	10.119	-1.04	10.38	0.000344	4.11	3100.71	237.60	0.18
Mainstem	30814	10-year	12410.00	-10.52	9.864		10.10	0.000306	3.89	3241.80	218.46	0.17
Mainstem	30001	10-year	12410.00	-9.50	9.655		9.86	0.000263	3.62	3457.74	245.90	0.17
Mainstem	29209	10-year	12410.00	-9.72	9.472	-1.83	9.66	0.000233	3.47	3614.34	245.55	0.16
Mainstem	29172											
Mainstem	29114	10-year	12410.00	-11.54	9.438	-2.16	9.59	0.000185	3.10	4014.84	279.48	0.14
Mainstem	28649	10-year	12410.00	-8.94	9.397		9.50	0.000136	2.58	4836.06	352.16	0.12
Mainstem	28591	10-year	12410.00	-8.12	9.389		9.49	0.000134	2.55	4901.95	364.67	0.12
Mainstem	28528	10-year	12410.00	-8.30	9.391		9.48	0.000114	2.39	5235.14	376.12	0.11
Mainstem	28464	10-year	12410.00	-10.68	9.383		9.47	0.000122	2.39	5208.60	390.89	0.11
Mainstem	28369	10-year	12410.00	-8.48	9.370		9.46	0.000126	2.40	5182.69	390.89	0.12
Mainstem	28322	10-year	12410.00	-8.95	9.369		9.45	0.000112	2.29	5470.05	418.99	0.11
Mainstem	28243	10-year	12410.00	-9.92	9.361	-2.60	9.44	0.000112	2.29	5438.52	406.75	0.11
Mainstem	28190											
Mainstem	28164	10-year	12410.00	-10.62	9.332		9.42	0.000114	2.35	5283.96	379.01	0.11
Mainstem	27778	10-year	12410.00	-12.40	9.339		9.37	0.000055	1.47	8477.34	726.61	0.08
Mainstem	27678	10-year	12410.00	-9.82	9.305		9.36	0.000120	1.93	6492.74	680.22	0.11
Mainstem	27372	10-year	12410.00	-19.62	9.322		9.34	0.000018	1.06	11828.29	758.04	0.05
Mainstem	25439	10-year	12410.00	-18.93	9.272		9.30	0.000027	1.28	9751.32	597.26	0.06
Mainstem	25085	10-year	12410.00	-18.00	9.285		9.29	0.000002	0.43	28812.36	1441.74	0.02
Mainstem	24652	10-year	12410.00	-18.66	9.270		9.28	0.000016	0.96	12908.50	808.18	0.04
Mainstem	24563	10-year	12410.00	-19.46	9.269		9.28	0.000015	0.95	13091.09	808.81	0.04
Mainstem	24473	10-year	12410.00	-18.92	9.268		9.28	0.000015	0.94	13191.54	806.38	0.04
Mainstem	24383	10-year	12410.00	-19.03	9.267		9.28	0.000014	0.92	13503.39	837.06	0.04
Mainstem	24283	10-year	12410.00	-18.35	9.266		9.28	0.000014	0.91	13611.73	843.30	0.04
Mainstem	24172	10-year	12410.00	-15.01	9.254		9.28	0.000026	1.18	10555.59	713.53	0.05
Mainstem	23924	10-year	12410.00	-15.13	9.240		9.27	0.000027	1.37	9338.71	547.16	0.06
Mainstem	23786	10-year	12410.00	-15.45	9.237		9.26	0.000028	1.34	9280.90	549.05	0.06
Mainstem	23718	10-year	12410.00	-15.64	9.233		9.26	0.000032	1.37	9095.81	546.79	0.06
Mainstem	23649	10-year	12410.00	-15.78	9.230		9.26	0.000032	1.40	9009.29	578.30	0.06
Mainstem	23496	10-year	12410.00	-15.62	9.217		9.25	0.000039	1.54	8117.75	517.04	0.07
Mainstem	23417	10-year	12410.00	-17.65	9.216		9.25	0.000035	1.48	8373.13	492.77	0.06
Mainstem	23327	10-year	12410.00	-17.63	9.209		9.25	0.000041	1.56	7940.46	485.07	0.07
Mainstem	23052	10-year	12410.00	-15.55	9.197		9.24	0.000039	1.58	7874.70	465.06	0.07
Mainstem	22989	10-year	12410.00	-15.75	9.194		9.23	0.000039	1.58	7897.15	464.23	0.07
Mainstem	22889	10-year	12410.00	-15.99	9.189		9.23	0.000041	1.60	7784.95	466.28	0.07
Mainstem	22794	10-year	12410.00	-16.26	9.177		9.22	0.000044	1.74	7134.67	402.67	0.07
Mainstem	22688	10-year	12410.00	-16.25	9.170		9.22	0.000045	1.78	7001.75	398.79	0.07
Mainstem	22598	10-year	12410.00	-16.28	9.167		9.21	0.000045	1.75	7127.19	412.03	0.07
Mainstem	22540	10-year	12410.00	-16.40	9.164		9.21	0.000121	1.72	7213.21	408.63	0.07
Mainstem	22334	10-year	12410.00	-19.78	9.154		9.20	0.000039	1.66	7508.85	420.26	0.07
Mainstem	22271	10-year	12410.00	-21.75	9.151		9.19	0.000039	1.65	7550.26	417.47	0.07
Mainstem	22128	10-year	12410.00	-21.34	9.149		9.19	0.000034	1.58	7856.55	410.72	0.06
Mainstem	22039	10-year	12410.00	-21.34	9.148		9.18	0.000030	1.52	8188.49	416.31	0.06
Mainstem	21923	10-year	12410.00	-21.34	9.148		9.18	0.000025	1.43	8713.55	430.96	0.05
Mainstem	21843	10-year	12410.00	-21.34	9.143		9.18	0.000027	1.48	8418.60	423.32	0.06
Mainstem	21358	10-year	12410.00	-20.14	9.134		9.16	0.000027	1.33	9386.12	550.72	0.06
Mainstem	20793	10-year	12410.00	-20.69	9.120		9.15	0.000027	1.32	9424.53	552.23	0.06
Mainstem	20544	10-year	12410.00	-24.74	9.116		9.14	0.000023	1.24	10014.62	572.25	0.05
Mainstem	20492	10-year	12410.00	-25.82	9.114	-15.61	9.14	0.000022	1.25	9961.00	548.75	0.05
Mainstem	20428											
Mainstem	20418	10-year	12410.00	-25.29	9.075		9.10	0.000064	1.36	9228.85	495.74	0.05

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 10-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	20207	10-year	12410.00	-23.59	9.067		9.10	0.000026	1.41	8872.77	464.97	0.06
Mainstem	20090	10-year	12410.00	-23.59	9.064		9.09	0.000027	1.41	8807.42	461.67	0.06
Mainstem	19990	10-year	12410.00	-23.59	9.058		9.09	0.000027	1.47	8641.22	451.34	0.06
Mainstem	19895	10-year	12410.00	-23.59	9.058		9.09	0.000027	1.41	8848.35	496.68	0.06
Mainstem	19795	10-year	12410.00	-22.09	9.055		9.09	0.000028	1.40	9011.71	577.70	0.06
Mainstem	19721	10-year	12410.00	-23.02	9.056		9.08	0.000022	1.30	9795.86	630.65	0.05
Mainstem	19584	10-year	12410.00	-24.09	9.053		9.08	0.000022	1.31	9832.35	627.49	0.05
Mainstem	19488	10-year	12410.00	-25.03	9.051		9.08	0.000021	1.30	9876.42	612.19	0.05
Mainstem	19356	10-year	12410.00	-23.02	9.045		9.07	0.000024	1.37	9405.27	609.90	0.05
Mainstem	19188	10-year	12410.00	-23.45	9.041		9.07	0.000024	1.36	9289.51	537.35	0.05
Mainstem	19077	10-year	12410.00	-24.95	9.040		9.07	0.000022	1.31	9518.14	488.65	0.05
Mainstem	18966	10-year	12410.00	-24.52	9.038		9.06	0.000023	1.30	9582.91	523.20	0.05
Mainstem	18876	10-year	12410.00	-24.53	9.037		9.06	0.000023	1.25	9964.40	566.40	0.05
Mainstem	18781	10-year	12410.00	-23.90	9.032		9.06	0.000024	1.33	9377.30	501.50	0.05
Mainstem	18670	10-year	12410.00	-23.09	9.020	-13.90	9.06	0.000031	1.51	8251.13	439.97	0.06

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	339478	100-year	12070.00	1008.02	1025.605		1026.39	0.002922	7.12	1727.57	122.26	0.32
Mainstem	338369	100-year	12070.00	1005.35	1019.163		1021.00	0.009158	11.24	1209.93	129.38	0.58
Mainstem	337904	100-year	12070.00	1001.43	1014.695		1016.45	0.010289	11.18	1270.88	158.77	0.60
Mainstem	337482	100-year	12070.00	997.51	1009.549		1011.55	0.013027	11.49	1107.53	135.40	0.66
Mainstem	336700	100-year	12070.00	987.32	1002.093		1003.73	0.007767	10.52	1283.17	147.36	0.53
Mainstem	335935	100-year	12070.00	979.60	995.757		997.66	0.007980	11.46	1214.12	125.59	0.54
Mainstem	335127	100-year	12070.00	976.75	991.061		992.22	0.005329	8.80	1483.86	150.22	0.44
Mainstem	334335	100-year	12070.00	973.99	986.863		987.97	0.005424	8.52	1489.53	150.74	0.44
Mainstem	333485	100-year	12070.00	970.06	982.293		983.32	0.005416	8.32	1585.39	180.34	0.44
Mainstem	332814	100-year	12070.00	964.25	977.227		978.75	0.008659	10.35	1329.55	151.16	0.55
Mainstem	331901	100-year	12070.00	953.70	971.176		972.54	0.005426	9.51	1366.29	126.29	0.45
Mainstem	331251	100-year	12070.00	949.66	961.179	961.18	965.49	0.027679	16.97	769.12	97.68	0.97
Mainstem	330787	100-year	12070.00	936.35	953.224		955.29	0.008666	12.22	1210.63	127.09	0.57
Mainstem	330211	100-year	12070.00	928.46	950.037		951.52	0.004693	9.98	1330.85	99.60	0.42
Mainstem	329667	100-year	12070.00	928.53	947.404		948.82	0.005221	9.77	1358.25	108.62	0.44
Mainstem	328965	100-year	12070.00	927.65	943.115	938.90	944.66	0.006663	10.43	1391.73	160.98	0.50
Mainstem	328041	100-year	12070.00	921.69	934.133		936.51	0.011949	12.51	1018.72	102.44	0.65
Mainstem	327027	100-year	12070.00	915.20	929.731		930.48	0.003125	7.07	1838.83	162.70	0.34
Mainstem	326288	100-year	12070.00	910.27	926.253		927.53	0.005054	9.26	1441.93	141.65	0.44
Mainstem	325755	100-year	12070.00	910.43	924.238		925.08	0.003798	7.43	1716.44	162.32	0.37
Mainstem	325206	100-year	12070.00	908.22	922.155		922.97	0.003841	7.54	1790.32	169.62	0.38
Mainstem	324789	100-year	12070.00	904.40	919.936		921.11	0.004964	9.05	1535.61	151.20	0.43
Mainstem	324519	100-year	12070.00	902.89	919.397		920.03	0.002510	6.55	2069.70	196.55	0.31
Mainstem	324255	100-year	12070.00	903.12	918.149		919.14	0.004208	8.17	1623.09	161.30	0.40
Mainstem	324060	100-year	12070.00	902.25	917.526		918.36	0.003418	7.49	1757.93	166.21	0.36
Mainstem	323706	100-year	12070.00	902.21	916.061		916.96	0.004833	8.20	1751.25	182.32	0.42
Mainstem	323226	100-year	12070.00	898.35	913.908		914.81	0.004115	8.19	1779.16	175.41	0.39
Mainstem	322877	100-year	12070.00	893.32	913.148		913.64	0.002293	5.88	2323.27	218.37	0.28
Mainstem	322692	100-year	12070.00	893.60	912.451		913.12	0.003403	6.90	2080.47	244.44	0.35
Mainstem	322539	100-year	12070.00	888.22	912.402	899.09	912.73	0.001153	4.76	2892.99	257.56	0.21
Mainstem	322360	100-year	12070.00	886.23	912.062	900.89	912.48	0.001616	5.40	2536.61	211.73	0.24
Mainstem	322323	100-year	12070.00	892.27	912.016	903.37	912.43	0.001618	5.33	2507.45	206.63	0.25
Mainstem	322106	100-year	12070.00	887.92	911.534	901.44	912.05	0.001706	5.82	2224.59	184.72	0.26
Mainstem	321990			Inl Struct								
Mainstem	321964	100-year	12070.00	879.22	894.607		895.31	0.002965	6.77	1839.73	155.49	0.33
Mainstem	321383	100-year	12070.00	874.07	891.649		893.05	0.005031	9.80	1405.97	121.76	0.44
Mainstem	320913	100-year	12070.00	871.33	889.868		890.95	0.003617	8.56	1556.05	120.14	0.38
Mainstem	320401	100-year	12070.00	869.76	884.111		887.38	0.015181	14.88	896.56	87.60	0.73
Mainstem	319910	100-year	12070.00	865.30	883.062		883.90	0.002907	7.53	1775.61	141.15	0.33
Mainstem	319419	100-year	12070.00	865.84	881.549		882.39	0.003216	7.44	1711.32	138.51	0.35
Mainstem	318690	100-year	12070.00	865.63	879.302		879.95	0.003335	6.64	1991.79	208.09	0.35
Mainstem	318664	100-year	12070.00	867.31	878.804		879.80	0.005817	8.19	1601.08	191.23	0.45
Mainstem	318109	100-year	12070.00	863.84	874.695		875.95	0.008365	9.45	1519.80	221.63	0.54
Mainstem	316832	100-year	12070.00	855.39	867.538		868.24	0.004381	6.73	1826.02	209.93	0.38
Mainstem	315623	100-year	12070.00	851.29	859.169	857.37	860.22	0.011273	8.67	1501.40	254.55	0.59
Mainstem	314635	100-year	12070.00	838.67	851.570		852.60	0.005601	8.47	1608.65	175.83	0.45
Mainstem	313801	100-year	12070.00	834.96	847.295		848.20	0.004862	7.70	1633.49	170.68	0.41
Mainstem	312903	100-year	12070.00	830.55	840.359		841.88	0.010926	10.04	1267.71	165.38	0.60
Mainstem	311853	100-year	12070.00	808.34	836.283		836.96	0.002383	6.79	1960.39	147.31	0.29
Mainstem	311340	100-year	12070.00	819.10	834.244		835.25	0.004863	8.08	1531.28	142.07	0.41
Mainstem	310533	100-year	12070.00	821.22	830.640	827.11	831.20	0.004776	6.32	2325.74	589.24	0.39
Mainstem	309830	100-year	12070.00	818.09	826.982		827.63	0.005478	6.50	1954.26	456.04	0.42
Mainstem	309107	100-year	12070.00	811.55	822.813	820.29	823.49	0.006191	7.73	2014.80	827.83	0.45
Mainstem	308368	100-year	12070.00	810.28	818.083	815.87	818.77	0.008112	7.53	1971.51	543.48	0.50
Mainstem	307956	100-year	12070.00	806.24	817.141		817.37	0.001700	4.08	3185.93	426.19	0.24
Mainstem	307708	100-year	12070.00	804.90	815.793		816.64	0.005297	7.47	1686.20	199.08	0.43
Mainstem	307660	100-year	12070.00	804.98	815.365		816.36	0.006843	8.31	1614.92	206.63	0.48
Mainstem	307402	100-year	12070.00	803.24	812.859		814.15	0.010402	9.71	1505.23	247.43	0.59
Mainstem	306984	100-year	12070.00	797.51	810.336		811.24	0.004720	7.97	1817.18	249.14	0.41
Mainstem	306816	100-year	12070.00	797.67	808.593		810.09	0.009364	10.10	1330.11	185.64	0.57
Mainstem	306324	100-year	12070.00	788.89	806.367		807.19	0.003596	7.43	1781.67	175.90	0.36
Mainstem	305628	100-year	12070.00	790.83	804.002		804.69	0.003448	6.65	1843.67	174.01	0.35
Mainstem	305538	100-year	12070.00	791.32	800.011	800.01	803.71	0.030118	15.61	811.87	114.53	0.98
Mainstem	304925	100-year	12070.00	783.64	795.900		796.73	0.004404	7.44	1720.98	180.21	0.40
Mainstem	304366	100-year	12070.00	782.00	793.549		794.33	0.004208	7.20	1789.83	189.34	0.39
Mainstem	303706	100-year	12070.00	776.97	791.215		791.93	0.003096	6.82	1848.12	171.10	0.34
Mainstem	303637	100-year	12070.00	777.26	789.595		791.46	0.010072	11.34	1202.43	141.80	0.60
Mainstem	303405	100-year	12070.00	775.70	790.245		790.46	0.000920	3.82	3402.15	297.66	0.19
Mainstem	302639	100-year	12070.00	773.65	788.676		789.32	0.002577	6.54	2001.40	187.92	0.31
Mainstem	301942	100-year	12070.00	772.59	781.717	781.16	784.93	0.024915	14.43	854.87	115.01	0.89
Mainstem	301509	100-year	12070.00	769.66	781.441		781.80	0.002210	5.04	2763.68	357.04	0.28
Mainstem	301066	100-year	12070.00	769.67	779.800		780.42	0.004251	6.57	2042.05	258.21	0.38
Mainstem	300464	100-year	12070.00	765.34	778.197	773.78	778.51	0.002308	5.47	3359.82	544.25	0.29
Mainstem	299856	100-year	12070.00	762.99	775.067		776.27	0.006154	8.98	1466.87	202.61	0.47
Mainstem	298758	100-year	12070.00	757.10	768.206		769.27	0.006533	8.44	1549.13	187.36	0.48



HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	297428	100-year	12070.00	746.98	758.169		759.49	0.008292	9.51	1443.72	203.37	0.53
Mainstem	296831	100-year	12070.00	743.96	752.983		754.21	0.009358	9.04	1427.86	208.29	0.55
Mainstem	296245	100-year	12070.00	738.96	748.764	745.53	749.58	0.006497	7.28	1705.89	243.63	0.45
Mainstem	295786	100-year	12070.00	731.50	741.825	741.72	744.47	0.021026	14.20	1121.09	210.58	0.84
Mainstem	295136	100-year	12070.00	723.88	736.127		737.19	0.006248	8.40	1528.13	176.55	0.46
Mainstem	294624	100-year	12070.00	720.59	729.446	728.97	731.76	0.020782	12.71	1107.79	211.44	0.81
Mainstem	293890	100-year	12070.00	710.60	721.892		723.02	0.007170	8.56	1462.54	178.78	0.49
Mainstem	293679	100-year	12070.00	709.17	721.871		722.16	0.001539	4.36	2813.52	275.24	0.23
Mainstem	293161	100-year	12070.00	709.91	718.406		720.18	0.014784	10.75	1146.15	157.43	0.68
Mainstem	292459	100-year	12070.00	700.61	710.822	707.99	712.10	0.008993	9.13	1369.19	175.45	0.54
Mainstem	291699	100-year	12070.00	688.49	699.460	699.01	702.09	0.020128	13.50	1051.27	189.19	0.81
Mainstem	290949	100-year	12070.00	680.04	693.470		694.59	0.005449	8.55	1476.88	148.13	0.44
Mainstem	290426	100-year	12070.00	679.06	687.583		689.74	0.018004	11.89	1052.98	150.01	0.76
Mainstem	289597	100-year	12070.00	665.63	674.755	673.12	676.47	0.013969	10.78	1215.26	174.77	0.67
Mainstem	288827	100-year	12070.00	649.56	658.717	658.72	661.67	0.027330	14.38	982.86	187.74	0.92
Mainstem	287887	100-year	12070.00	641.14	653.812		654.38	0.003075	6.20	2106.10	231.41	0.33
Mainstem	287000	100-year	12070.00	636.25	648.428		650.01	0.008608	10.32	1308.83	166.55	0.55
Mainstem	286229	100-year	12070.00	629.18	636.549	636.23	639.11	0.026696	13.02	981.31	172.54	0.90
Mainstem	285532	100-year	12070.00	615.47	628.145		629.61	0.007825	9.76	1278.19	132.47	0.52
Mainstem	284719	100-year	12070.00	609.66	622.063	618.48	623.42	0.007374	9.63	1402.28	165.23	0.51
Mainstem	284053	100-year	12070.00	602.27	611.416	611.42	614.62	0.028345	14.77	903.96	149.58	0.95
Mainstem	283589	100-year	12070.00	597.58	608.089		608.80	0.005189	6.95	1904.61	256.53	0.41
Mainstem	282818	100-year	12070.00	591.35	601.138		602.77	0.012665	10.38	1229.02	173.52	0.64
Mainstem	282353	100-year	12070.00	586.31	594.937		596.53	0.014180	10.34	1251.52	192.36	0.67
Mainstem	281593	100-year	12070.00	569.44	580.870	579.82	583.89	0.019202	14.14	911.50	112.62	0.79
Mainstem	280949	100-year	12070.00	560.42	570.112		572.30	0.016435	11.95	1045.85	143.15	0.73
Mainstem	280125	100-year	12070.00	552.35	565.757		566.48	0.003463	6.86	1792.78	164.22	0.35
Mainstem	279386	100-year	12070.00	549.44	559.352	557.82	561.63	0.015518	12.37	1072.76	149.59	0.72
Mainstem	278583	100-year	12070.00	540.98	551.383		552.65	0.007952	9.11	1383.90	161.45	0.52
Mainstem	278161	100-year	12070.00	536.98	547.612		549.07	0.008869	9.86	1322.60	162.32	0.55
Mainstem	277707	100-year	12070.00	530.49	541.716		543.98	0.014068	12.66	1119.27	150.24	0.70
Mainstem	277105	100-year	12070.00	524.29	536.522	533.35	537.73	0.007253	9.42	1519.31	180.48	0.50
Mainstem	276619	100-year	12070.00	518.92	528.361	528.36	531.43	0.026599	14.81	967.09	168.81	0.92
Mainstem	275943	100-year	12070.00	510.39	525.216		525.77	0.002309	5.99	2080.70	178.73	0.29
Mainstem	275458	100-year	12070.00	510.10	519.391	519.22	522.81	0.026460	15.20	867.61	125.94	0.93
Mainstem	274565	100-year	12070.00	498.10	511.066		512.19	0.006108	8.65	1499.12	170.53	0.46
Mainstem	273800	100-year	12070.00	494.39	504.909		506.38	0.009582	9.82	1277.78	153.29	0.57
Mainstem	272923	100-year	12070.00	485.76	498.181		499.41	0.006555	8.93	1398.22	146.11	0.48
Mainstem	272342	100-year	12070.00	482.77	494.833		495.88	0.005524	8.29	1510.44	151.21	0.44
Mainstem	271909	100-year	12070.00	477.04	487.646	487.65	490.99	0.028906	15.16	890.14	144.34	0.96
Mainstem	271535	100-year	12070.00	471.21	483.164		484.67	0.008917	10.04	1314.84	163.62	0.56
Mainstem	271038	100-year	12070.00	468.32	479.230		480.29	0.008151	8.28	1480.24	190.74	0.51
Mainstem	270579	100-year	12070.00	465.53	474.996		476.26	0.009565	9.12	1375.28	175.21	0.56
Mainstem	270114	100-year	12070.00	458.56	470.587		472.06	0.008450	9.82	1290.38	146.48	0.54
Mainstem	269729	100-year	12070.00	456.27	467.510	464.17	468.85	0.007928	9.41	1352.20	152.08	0.52
Mainstem	269264	100-year	12070.00	453.51	460.462	459.90	462.73	0.024554	12.17	1020.19	175.19	0.86
Mainstem	268752	100-year	12070.00	442.46	458.326	452.87	458.89	0.002922	6.90	2085.43	214.03	0.33
Mainstem	268388	100-year	12070.00	433.14	456.731		457.80	0.002724	8.40	1551.40	93.66	0.33
Mainstem	268182	100-year	12070.00	432.18	456.673		457.24	0.001494	6.32	2211.40	142.19	0.25
Mainstem	267854	100-year	12070.00	431.80	448.752	448.75	454.43	0.025458	19.67	694.09	68.17	0.94
Mainstem	267516	100-year	12070.00	431.01	442.911		444.44	0.009096	10.00	1252.82	140.22	0.56
Mainstem	267115	100-year	12070.00	427.61	439.383	436.05	440.93	0.008610	10.07	1260.38	140.32	0.55
Mainstem	266561	100-year	12070.00	422.26	432.850		434.95	0.012960	11.79	1090.98	130.83	0.67
Mainstem	266133	100-year	12070.00	413.45	430.655		431.70	0.003773	8.33	1551.61	123.69	0.38
Mainstem	265668	100-year	12070.00	409.35	425.867		428.66	0.011994	13.47	927.15	76.76	0.64
Mainstem	265362	100-year	12070.00	407.68	424.500		425.91	0.005156	9.62	1331.12	107.67	0.44
Mainstem	265014	100-year	12070.00	408.22	420.229	418.43	422.89	0.015715	13.17	945.80	103.14	0.73
Mainstem	264370	100-year	12070.00	402.08	414.392		415.80	0.007401	9.56	1295.96	129.84	0.51
Mainstem	263657	100-year	12070.00	396.62	409.847		411.25	0.005610	9.58	1315.88	126.24	0.49
Mainstem	262743	100-year	12070.00	393.90	405.456		406.45	0.004672	8.09	1566.27	171.16	0.45
Mainstem	262221	100-year	12070.00	390.55	401.088		402.89	0.010315	11.37	1320.28	215.55	0.66
Mainstem	261645	100-year	12070.00	385.29	399.177		399.87	0.002636	6.73	1873.58	174.26	0.34
Mainstem	261318	100-year	12070.00	386.42	397.572		398.65	0.005340	8.50	1531.86	176.58	0.48
Mainstem	260996	100-year	12070.00	384.64	393.285	392.31	395.68	0.016836	12.45	990.21	146.20	0.81
Mainstem	260478	100-year	12070.00	379.66	388.620		389.71	0.007560	8.77	1598.88	251.26	0.55
Mainstem	260040	100-year	12070.00	375.12	386.626		387.34	0.003731	6.90	1870.71	224.31	0.40
Mainstem	259570	100-year	12070.00	371.15	384.932		385.65	0.003417	7.03	1945.48	242.50	0.38
Mainstem	259259	100-year	12070.00	371.04	383.254		384.31	0.005436	8.51	1624.95	226.38	0.48
Mainstem	258884	100-year	12070.00	367.97	381.564		382.40	0.004446	8.05	1960.19	267.38	0.44
Mainstem	258224	100-year	12070.00	363.49	376.865	374.87	378.41	0.008369	10.87	1495.34	398.32	0.60
Mainstem	257574	100-year	12070.00	360.44	373.547		374.39	0.004329	7.44	1699.53	197.83	0.43
Mainstem	256824	100-year	12070.00	356.90	367.277	366.22	369.17	0.012293	11.68	1278.47	221.03	0.71
Mainstem	256312	100-year	12070.00	353.50	362.921		364.18	0.007377	9.21	1432.28	192.17	0.55
Mainstem	255895	100-year	12070.00	348.37	360.596		361.62	0.004984	8.38	1644.12	212.40	0.46
Mainstem	255272	100-year	12070.00	345.52	357.965	354.57	358.69	0.004232	7.78	2116.12	280.47	0.43

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	254850	100-year	12070.00	341.44	355.259		356.59	0.005743	9.46	1489.67	231.91	0.50
Mainstem	254464	100-year	12070.00	341.93	353.634		354.58	0.004281	7.88	1658.78	213.65	0.43
Mainstem	253778	100-year	12070.00	338.75	348.648		350.22	0.009926	10.55	1361.34	214.55	0.64
Mainstem	253398	100-year	12070.00	336.30	346.215		347.18	0.005912	7.91	1563.32	207.09	0.49
Mainstem	253039	100-year	12070.00	333.97	343.136		344.45	0.009721	9.40	1383.60	213.61	0.61
Mainstem	252732	100-year	12070.00	328.80	341.133		342.29	0.005129	8.77	1480.36	162.90	0.47
Mainstem	252004	100-year	12070.00	322.69	332.915	332.29	335.75	0.018233	13.66	941.34	141.68	0.85
Mainstem	251497	100-year	12070.00	320.14	329.283		330.23	0.006114	7.86	1597.22	222.87	0.49
Mainstem	251133	100-year	12070.00	317.25	325.758		327.26	0.010703	9.92	1278.99	202.34	0.64
Mainstem	250726	100-year	12070.00	313.97	321.988		323.16	0.009133	8.76	1431.44	228.49	0.59
Mainstem	250261	100-year	12070.00	307.64	318.064		319.37	0.007351	9.26	1363.07	170.31	0.55
Mainstem	249607	100-year	12070.00	304.74	314.829		315.58	0.004285	7.08	1823.79	226.43	0.42
Mainstem	248873	100-year	12070.00	297.75	311.040		312.19	0.004853	8.67	1450.37	144.27	0.46
Mainstem	248382	100-year	12070.00	297.88	308.000		309.30	0.007374	9.44	1429.03	186.55	0.55
Mainstem	247870	100-year	12070.00	294.56	305.234		306.12	0.004905	8.18	1933.41	305.78	0.46
Mainstem	247099	100-year	12070.00	285.52	298.233	296.66	300.41	0.011834	12.19	1114.29	147.82	0.69
Mainstem	246402	100-year	12070.00	282.89	293.417		294.53	0.005697	8.67	1525.03	184.45	0.49
Mainstem	245573	100-year	12070.00	275.96	289.228		290.30	0.004600	8.61	1603.05	178.32	0.45
Mainstem	244897	100-year	12070.00	275.58	284.938		286.27	0.007951	9.53	1411.11	194.22	0.57
Mainstem	244163	100-year	12070.00	269.05	280.839		281.81	0.004602	8.01	1599.65	177.06	0.44
Mainstem	243661	100-year	12070.00	266.28	276.903		278.60	0.008977	10.59	1207.21	145.21	0.61
Mainstem	242875	100-year	12070.00	260.71	273.333		274.16	0.003512	7.35	1714.09	175.66	0.39
Mainstem	242072	100-year	12070.00	256.43	270.050		271.09	0.004108	8.33	1601.50	177.37	0.43
Mainstem	241597	100-year	12070.00	256.23	267.336		268.64	0.006434	9.44	1424.46	172.02	0.53
Mainstem	240963	100-year	12070.00	253.60	263.904		264.89	0.005206	7.98	1539.88	176.99	0.46
Mainstem	240108	100-year	12070.00	249.71	258.731		259.73	0.007066	8.14	1579.73	239.82	0.52
Mainstem	239649	100-year	12070.00	246.12	256.639		257.27	0.003901	6.56	2073.54	314.40	0.40
Mainstem	239010	100-year	12070.00	243.44	253.756		254.56	0.004540	7.37	1777.53	230.63	0.43
Mainstem	238123	100-year	12070.00	240.02	250.266		250.98	0.003568	6.89	1856.06	209.21	0.39
Mainstem	237109	100-year	12070.00	232.64	245.410		246.57	0.005373	9.21	1633.27	206.56	0.49
Mainstem	236227	100-year	12070.00	228.82	240.601	236.80	241.79	0.005478	8.83	1438.13	216.49	0.49
Mainstem	235129	100-year	12070.00	224.81	234.145		235.16	0.006602	8.20	1579.62	237.24	0.51
Mainstem	234105	100-year	12070.00	220.18	230.339	226.37	230.69	0.002839	5.59	2985.78	481.01	0.34
Mainstem	232663	100-year	12070.00	217.31	226.120	224.04	226.44	0.003552	5.83	3965.96	1349.89	0.37
Mainstem	231739	100-year	12070.00	211.41	223.065	221.22	223.42	0.003171	6.23	3347.43	853.02	0.36
Mainstem	230303	100-year	12070.00	205.60	218.097	216.90	218.65	0.004088	7.26	3198.28	1257.86	0.41
Mainstem	229141	100-year	12070.00	201.84	214.051	209.93	214.63	0.003032	6.71	2517.87	1003.63	0.36
Mainstem	227869	100-year	12070.00	198.88	209.424	206.24	210.12	0.004173	7.28	2222.18	1124.27	0.42
Mainstem	226549	100-year	12070.00	194.48	205.617	200.96	206.02	0.002273	5.49	2981.61	746.45	0.31
Mainstem	225329	100-year	12070.00	181.71	202.307	195.81	203.00	0.002667	6.92	2051.48	550.12	0.34
Mainstem	224659	100-year	12070.00	188.52	200.329	195.85	200.97	0.003366	6.51	1910.49	578.36	0.37
Mainstem	224622		Bridge									
Mainstem	224574	100-year	12070.00	188.52	200.000	195.88	200.68	0.003722	6.70	1877.17	727.25	0.39
Mainstem	223545	100-year	12070.00	186.59	197.266	193.67	197.59	0.002318	5.43	4240.18	1370.21	0.31
Mainstem	222367	100-year	12070.00	181.37	192.845	188.73	193.85	0.004651	8.19	1608.39	194.04	0.45
Mainstem	221290	100-year	12070.00	177.50	188.519	184.18	189.27	0.003799	7.03	1868.20	255.49	0.40
Mainstem	219891	100-year	12070.00	168.42	181.526		182.79	0.005696	9.24	1494.61	180.24	0.50
Mainstem	218555	100-year	12070.00	163.48	176.785		177.40	0.002820	6.46	2154.68	356.79	0.34
Mainstem	217599	100-year	12070.00	161.68	173.549	169.05	174.27	0.003827	6.95	1849.02	217.33	0.39
Mainstem	217557		Bridge									
Mainstem	217504	100-year	12070.00	161.36	172.724	168.95	173.54	0.004869	7.33	1746.18	237.66	0.43
Mainstem	216549	100-year	12070.00	157.38	169.604	165.02	169.99	0.002746	5.99	2710.73	452.66	0.32
Mainstem	215223	100-year	12070.00	152.39	164.957	161.44	165.58	0.004204	7.19	2459.82	685.50	0.39
Mainstem	213972	100-year	12070.00	147.03	160.472	155.56	161.07	0.003112	6.50	2176.28	1048.73	0.35
Mainstem	213418	100-year	12250.00	145.69	158.376	154.95	159.04	0.004287	7.39	2580.59	876.60	0.40
Mainstem	212061	100-year	12250.00	141.43	153.476	148.84	154.04	0.003185	6.10	2245.59	711.35	0.35
Mainstem	211121	100-year	12250.00	137.00	149.456	145.12	150.39	0.004729	8.12	1925.96	839.73	0.43
Mainstem	210762	100-year	12250.00	136.98	147.843	144.59	148.58	0.004969	7.49	2222.22	583.62	0.44
Mainstem	209679	100-year	12250.00	134.77	144.763	142.12	144.96	0.002292	4.66	4796.83	1961.26	0.29
Mainstem	208391	100-year	11745.00	132.45	139.830	138.46	140.16	0.007120	6.35	2972.61	1747.00	0.49
Mainstem	207092	100-year	11745.00	127.81	135.048	133.50	135.17	0.004285	4.53	4779.31	2721.54	0.36
Mainstem	205667	100-year	11745.00	127.16	134.251	132.00	134.28	0.000866	1.99	9026.69	3135.33	0.17
Mainstem	203988	100-year	11745.00	121.47	131.347	130.01	131.94	0.005772	7.62	2622.79	1609.28	0.47
Mainstem	202884	100-year	11745.00	116.15	127.771	124.35	128.00	0.002219	4.48	4448.79	2172.64	0.29
Mainstem	201332	100-year	11745.00	112.29	123.116	121.13	123.48	0.004235	6.14	2907.61	1807.59	0.40
Mainstem	200508	100-year	11745.00	111.53	121.373	118.95	121.50	0.002104	4.01	4419.78	1945.55	0.28
Mainstem	198924	100-year	12250.00	107.24	119.020	115.42	119.20	0.001417	4.33	4926.20	1359.44	0.24
Mainstem	198063	100-year	12250.00	100.65	116.664	113.53	117.32	0.004169	7.68	2979.00	902.62	0.40
Mainstem	196976	100-year	12250.00	104.00	115.344	111.07	115.43	0.000818	3.27	7375.39	1729.20	0.18
Mainstem	196242	100-year	12250.00	95.52	113.929	109.74	114.41	0.002655	6.43	3034.64	1463.12	0.33
Mainstem	195101	100-year	12250.00	100.46	110.965	108.75	111.28	0.002830	5.61	3814.01	1660.58	0.33
Mainstem	193966	100-year	12250.00	95.52	108.902	105.06	109.01	0.001392	3.00	5402.45	2313.85	0.20
Mainstem	192952	100-year	12250.00	97.96	107.585	105.00	107.70	0.001259	3.75	6251.00	2880.03	0.22
Mainstem	192134	100-year	12250.00	89.06	107.033	102.55	107.10	0.000628	3.06	8648.37	2646.91	0.16
Mainstem	191358	100-year	12250.00	93.92	105.007	100.68	105.66	0.003520	6.75	2184.30	1901.48	0.38

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	190143	100-year	12250.00	89.64	102.017	98.47	102.34	0.002054	5.61	3410.13	1688.88	0.30
Mainstem	188966	100-year	12250.00	86.96	99.655	96.40	99.95	0.002050	5.56	4084.92	1708.87	0.32
Mainstem	188448	100-year	12250.00	86.65	98.675	94.67	98.85	0.001354	4.48	4662.24	2056.36	0.26
Mainstem	188031	100-year	12250.00	82.88	97.910	95.48	98.14	0.001592	5.06	4823.32	2419.64	0.28
Mainstem	186759	100-year	12250.00	83.18	95.956	90.88	96.32	0.001593	5.50	3748.11	2524.03	0.29
Mainstem	185302	100-year	12250.00	80.45	93.569	90.28	93.86	0.001757	5.71	3921.46	1913.77	0.30
Mainstem	184214	100-year	12250.00	80.91	91.751	87.84	92.03	0.001608	5.12	3873.37	2167.26	0.29
Mainstem	182831	100-year	12250.00	78.48	89.392	85.97	89.68	0.001846	5.35	3887.89	1466.85	0.31
Mainstem	182783		Bridge									
Mainstem	182730	100-year	12250.00	78.48	88.893	86.34	89.48	0.003379	6.94	2560.23	882.98	0.41
Mainstem	181817	100-year	12250.00	73.04	87.278	83.76	87.47	0.001343	4.68	5214.98	2926.81	0.26
Mainstem	181104	100-year	12250.00	75.65	87.174	84.43	87.19	0.000140	1.38	15476.67	3094.33	0.08
Mainstem	180264	100-year	12250.00	73.64	83.815	83.82	86.61	0.020804	13.45	947.38	2228.44	0.95
Mainstem	178865	100-year	12250.00	72.01	83.436	80.83	83.49	0.000484	2.67	8012.23	2477.95	0.15
Mainstem	177545	100-year	12250.00	68.87	83.263	78.43	83.27	0.000065	1.07	20064.81	3110.85	0.06
Mainstem	176268	100-year	12250.00	66.87	82.343	75.55	82.97	0.001797	6.55	2083.57	477.96	0.32
Mainstem	176225		Bridge									
Mainstem	176178	100-year	12250.00	66.87	82.159	75.70	82.79	0.001872	6.55	2107.52	1033.37	0.32
Mainstem	176056	100-year	12250.00	66.87	81.663		82.50	0.002463	7.35	1928.72	1029.86	0.37
Mainstem	175940	100-year	12810.00	67.00	81.855	73.84	82.18	0.000928	4.67	2919.37	334.32	0.23
Mainstem	175919		Bridge									
Mainstem	175893	100-year	12810.00	65.37	81.639	73.69	82.03	0.001090	5.10	2755.88	474.60	0.25
Mainstem	175708	100-year	12810.00	66.02	81.216	74.16	81.77	0.001606	6.14	2295.56	207.44	0.30
Mainstem	175660		Bridge									
Mainstem	175555	100-year	12810.00	67.32	80.853	74.75	81.45	0.001923	6.28	2198.09	223.19	0.32
Mainstem	174462	100-year	12810.00	67.00	78.942	74.68	79.27	0.001915	5.46	4650.60	1590.64	0.31
Mainstem	173353	100-year	12810.00	65.06	77.129	74.00	77.35	0.001505	4.98	5484.51	1547.82	0.28
Mainstem	172540	100-year	12810.00	57.34	76.384	71.48	76.54	0.001062	4.27	6616.89	1987.88	0.22
Mainstem	171743	100-year	12810.00	64.05	75.999	69.04	76.06	0.000312	2.54	9129.88	1957.65	0.13
Mainstem	171209	100-year	12810.00	53.16	75.685	64.58	75.87	0.000481	4.02	6466.02	1505.46	0.17
Mainstem	170877	100-year	12810.00	49.99	75.497	63.07	75.71	0.000493	4.13	4361.05	1299.14	0.17
Mainstem	170697	100-year	12810.00	54.70	75.243	63.91	75.59	0.000669	4.87	3446.24	1160.38	0.20
Mainstem	170280	100-year	12810.00	51.75	75.108	62.84	75.31	0.000514	4.30	6951.90	1316.34	0.17
Mainstem	169351	100-year	12810.00	52.66	74.952	62.61	75.01	0.000181	2.56	12687.41	1793.97	0.11
Mainstem	168448	100-year	12810.00	46.54	74.550	61.44	74.75	0.000477	4.18	6679.62	1028.11	0.16
Mainstem	167556	100-year	12810.00	51.17	74.068	61.84	74.31	0.000500	4.23	4626.25	623.30	0.17
Mainstem	166774	100-year	12810.00	51.93	73.509		73.85	0.000671	4.75	3267.40	353.71	0.20
Mainstem	166008	100-year	12810.00	53.48	72.968	62.02	73.32	0.000711	4.87	3252.69	351.64	0.21
Mainstem	165195	100-year	12810.00	50.67	72.104		72.59	0.001089	5.90	2965.47	337.29	0.25
Mainstem	165137	100-year	12810.00	52.01	72.092		72.52	0.000891	5.42	3063.58	360.75	0.23
Mainstem	164150	100-year	12810.00	48.79	71.217	59.11	71.68	0.000796	5.50	2356.26	434.04	0.22
Mainstem	164108		Bridge									
Mainstem	164060	100-year	12810.00	48.79	70.969	58.97	71.41	0.000743	5.34	2397.29	236.14	0.22
Mainstem	163506	100-year	12810.00	53.45	70.318	61.62	70.86	0.001339	6.08	2454.67	245.67	0.27
Mainstem	162645	100-year	12810.00	50.09	69.688	61.35	69.94	0.000742	4.63	3947.47	532.23	0.20
Mainstem	161505	100-year	12810.00	45.86	68.656	58.36	69.01	0.000890	5.40	4432.59	655.12	0.22
Mainstem	160391	100-year	12810.00	44.32	67.353	56.88	67.86	0.001190	6.09	2821.67	415.92	0.25
Mainstem	159509	100-year	12810.00	51.51	66.578	57.94	66.91	0.000881	4.73	3159.70	436.15	0.22
Mainstem	158822	100-year	12810.00	48.13	66.273	56.44	66.43	0.000454	3.50	5256.71	679.93	0.16
Mainstem	158078	100-year	12810.00	41.74	65.342	54.25	65.89	0.001140	6.20	2780.64	472.27	0.25
Mainstem	157777	100-year	12810.00	49.91	64.998	57.42	65.51	0.001323	6.04	3684.54	629.83	0.28
Mainstem	157576	100-year	12810.00	49.71	64.738	57.84	65.22	0.001413	6.07	3244.83	681.37	0.29
Mainstem	157386	100-year	12810.00	50.16	64.393	57.72	64.94	0.001569	6.36	2988.04	738.80	0.31
Mainstem	157180	100-year	12810.00	46.75	64.068	55.38	64.64	0.001242	6.27	2910.17	506.49	0.28
Mainstem	156953	100-year	12810.00	43.06	63.845	53.62	64.38	0.001017	6.08	3456.07	819.54	0.25
Mainstem	156895	100-year	12810.00	41.91	63.817	52.91	64.31	0.000988	5.84	2770.95	329.38	0.24
Mainstem	156879		Bridge									
Mainstem	156869	100-year	12810.00	41.91	63.763	52.92	64.21	0.000916	5.57	2859.03	330.41	0.23
Mainstem	156768	100-year	12810.00	41.40	63.587	53.43	64.11	0.001028	6.14	3693.86	793.91	0.25
Mainstem	156610	100-year	12810.00	37.02	63.507	51.75	63.94	0.000787	5.60	3704.07	517.71	0.22
Mainstem	156362	100-year	12810.00	45.47	63.038	54.78	63.67	0.001395	6.56	2743.96	458.42	0.29
Mainstem	156161	100-year	12810.00	45.41	62.843	54.07	63.38	0.001184	6.03	2803.53	436.20	0.27
Mainstem	155992	100-year	12810.00	45.99	62.655	53.93	63.18	0.001156	5.96	2773.35	386.97	0.27
Mainstem	155771	100-year	12810.00	46.02	62.414	54.14	62.92	0.001183	5.92	3299.51	1408.75	0.27
Mainstem	155570	100-year	12810.00	46.20	62.159	53.87	62.68	0.001202	5.95	2847.51	1494.70	0.27
Mainstem	155390	100-year	12810.00	43.58	61.993	53.36	62.46	0.001071	5.91	2971.74	1436.92	0.26
Mainstem	155184	100-year	12810.00	43.89	61.821	52.74	62.23	0.000921	5.67	3212.93	1533.53	0.24
Mainstem	154947	100-year	12810.00	39.79	61.645	50.59	62.03	0.000742	5.37	3711.92	1518.44	0.22
Mainstem	154746	100-year	12810.00	41.84	61.619	49.93	61.87	0.000489	4.27	4282.64	1625.11	0.18
Mainstem	154577	100-year	12810.00	41.92	61.464	50.72	61.77	0.000636	4.79	4082.69	1375.39	0.20
Mainstem	154350	100-year	12810.00	40.01	61.379	51.40	61.61	0.000575	4.41	4985.80	1582.03	0.19
Mainstem	154155	100-year	12810.00	39.19	61.161	51.09	61.48	0.000730	5.27	4645.04	1585.81	0.22
Mainstem	153954	100-year	12810.00	42.67	61.090	51.51	61.32	0.000590	4.44	4892.86	1609.99	0.19
Mainstem	153743	100-year	12810.00	42.59	60.941	51.32	61.19	0.000626	4.61	5394.68	1505.21	0.20
Mainstem	153548	100-year	12810.00	43.96	60.880	50.76	61.07	0.000471	3.96	6034.58	1476.17	0.17

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	153347	100-year	12810.00	41.96	60.624	50.30	60.94	0.000690	5.03	5645.14	1450.72	0.21
Mainstem	153136	100-year	12810.00	36.92	60.375	48.56	60.78	0.000737	5.55	4634.33	587.76	0.22
Mainstem	152972	100-year	12810.00	32.11	60.257	47.70	60.67	0.000721	5.54	5157.58	1643.25	0.21
Mainstem	152740	100-year	12810.00	40.47	60.069	49.44	60.49	0.000820	5.59	4269.66	499.59	0.23
Mainstem	152587	100-year	12810.00	41.27	60.010	49.16	60.35	0.000654	4.84	3562.84	445.73	0.21
Mainstem	152328	100-year	12810.00	38.77	59.675	48.90	60.14	0.000866	5.93	3644.75	385.64	0.24
Mainstem	152117	100-year	12810.00	38.21	59.652	48.63	59.93	0.000629	4.96	5052.10	391.74	0.20
Mainstem	151927	100-year	12810.00	36.91	59.512	48.73	59.81	0.000657	5.16	5165.87	428.03	0.21
Mainstem	151726	100-year	12810.00	37.04	59.429	48.48	59.67	0.000543	4.70	6008.84	581.18	0.19
Mainstem	151531	100-year	12810.00	37.91	59.398	47.72	59.55	0.000381	3.92	7952.80	1225.15	0.16
Mainstem	151351	100-year	12810.00	39.90	59.336	47.74	59.48	0.000381	3.81	7494.50	572.19	0.16
Mainstem	151108	100-year	12810.00	37.92	59.118	48.11	59.36	0.000533	4.65	5912.87	774.57	0.19
Mainstem	150913	100-year	12810.00	37.45	58.752	47.35	59.22	0.000826	5.75	3503.35	654.67	0.23
Mainstem	150718	100-year	12810.00	36.75	58.641	47.25	59.05	0.000747	5.53	3869.52	646.20	0.22
Mainstem	150533	100-year	12810.00	36.08	58.526	47.06	58.90	0.000723	5.43	4658.37	699.21	0.22
Mainstem	150337	100-year	12810.00	36.43	58.319	47.01	58.75	0.000792	5.65	4268.77	937.41	0.23
Mainstem	150116	100-year	12810.00	38.91	58.148	47.44	58.57	0.000786	5.33	2915.72	542.44	0.23
Mainstem	149931	100-year	12810.00	36.59	57.911	46.61	58.41	0.000849	5.79	2632.44	561.24	0.24
Mainstem	149714	100-year	12810.00	37.99	57.811	45.97	58.22	0.000689	5.20	3025.11	612.52	0.21
Mainstem	149487	100-year	12810.00	39.95	57.710	46.65	58.05	0.000636	4.78	3663.17	480.10	0.20
Mainstem	149318	100-year	12810.00	37.91	57.523	46.37	57.93	0.000726	5.22	3235.03	397.86	0.22
Mainstem	149118	100-year	12810.00	35.55	57.349	46.04	57.78	0.000762	5.39	3135.19	395.55	0.22
Mainstem	148917	100-year	12810.00	36.41	57.259	45.33	57.62	0.000620	4.95	3283.31	560.25	0.20
Mainstem	148716	100-year	12810.00	35.37	57.061	44.95	57.48	0.000707	5.46	3439.02	650.46	0.22
Mainstem	148389	100-year	12810.00	35.33	56.779	44.76	57.24	0.000750	5.59	3568.26	548.65	0.22
Mainstem	148115	100-year	12810.00	34.85	56.823	43.99	57.02	0.000379	4.01	6836.37	885.77	0.16
Mainstem	147724	100-year	12810.00	32.96	56.726	44.50	56.86	0.000332	3.77	9793.62	1136.44	0.15
Mainstem	147523	100-year	12810.00	33.85	56.650	44.27	56.79	0.000347	3.90	9954.15	1192.70	0.15
Mainstem	147323	100-year	12810.00	34.82	56.591	44.18	56.73	0.000297	3.45	7530.91	669.88	0.14
Mainstem	147127	100-year	12810.00	33.61	56.555	44.19	56.67	0.000277	3.38	6266.38	776.28	0.14
Mainstem	146932	100-year	12810.00	31.45	56.346	42.68	56.59	0.000386	4.04	4000.59	479.32	0.16
Mainstem	146826	100-year	12810.00	33.81	56.137	44.27	56.52	0.000684	5.42	3905.98	547.29	0.21
Mainstem	146678	100-year	12810.00	34.71	56.131	42.94	56.41	0.000443	4.32	3937.14	350.11	0.17
Mainstem	146509	100-year	12810.00	34.24	55.946	43.83	56.31	0.000617	4.98	3212.28	276.21	0.20
Mainstem	146356	100-year	12810.00	32.88	55.869	42.77	56.22	0.000545	4.79	3108.69	334.69	0.19
Mainstem	146219	100-year	12810.00	29.15	55.409	42.92	56.08	0.001020	6.70	2242.68	300.24	0.26
Mainstem	146193		Bridge									
Mainstem	146166	100-year	12810.00	29.97	55.323	43.49	56.02	0.001087	6.86	2251.02	316.63	0.27
Mainstem	146013	100-year	12810.00	27.23	55.305	41.37	55.84	0.000749	5.95	2581.92	311.04	0.22
Mainstem	145818	100-year	12810.00	30.10	55.195	41.97	55.68	0.000730	5.78	2570.44	189.33	0.22
Mainstem	145401	100-year	12810.00	33.69	54.964	42.06	55.37	0.000636	5.22	2791.06	205.95	0.21
Mainstem	145168	100-year	12810.00	33.03	54.908	41.34	55.21	0.000479	4.46	3451.40	287.30	0.18
Mainstem	144957	100-year	12810.00	32.01	54.952	41.01	55.09	0.000243	3.10	5754.83	566.60	0.13
Mainstem	144741	100-year	12810.00	30.43	54.848	40.77	55.03	0.000321	3.81	6709.22	588.99	0.15
Mainstem	144614	100-year	12810.00	27.56	54.759	39.68	54.98	0.000387	4.32	6643.95	606.66	0.16
Mainstem	144461	100-year	12810.00	32.44	54.752	40.86	54.91	0.000298	3.58	6909.21	653.43	0.14
Mainstem	144308	100-year	12810.00	32.63	54.735	41.50	54.86	0.000263	3.11	7095.62	543.85	0.13
Mainstem	144149	100-year	12810.00	31.85	54.678	39.95	54.82	0.000233	3.21	6208.35	436.80	0.13
Mainstem	143964	100-year	12810.00	27.10	54.380	39.19	54.73	0.000501	4.84	3206.21	319.50	0.18
Mainstem	143716	100-year	12810.00	32.09	54.139	41.54	54.58	0.000699	5.42	2914.09	299.86	0.21
Mainstem	143025	100-year	12810.00	28.42	53.950	38.99	54.18	0.000356	4.08	4541.92	503.58	0.15
Mainstem	141868	100-year	12810.00	29.60	53.413	39.72	53.70	0.000478	4.55	3910.42	411.66	0.18
Mainstem	140638	100-year	12810.00	29.91	52.847	38.45	53.14	0.000444	4.55	3862.20	472.93	0.17
Mainstem	139281	100-year	12810.00	28.53	52.150	37.59	52.48	0.000510	4.77	3184.06	354.43	0.18
Mainstem	138563	100-year	12810.00	28.86	52.033	35.64	52.19	0.000243	3.25	4681.71	573.68	0.12
Mainstem	137766	100-year	12810.00	26.76	51.609	35.47	51.92	0.000409	4.60	3392.34	856.77	0.17
Mainstem	137280	100-year	12810.00	18.66	51.313	35.76	51.68	0.000578	5.08	3139.96	895.22	0.18
Mainstem	137248	100-year	12810.00	18.94	51.162	35.15	51.65	0.000543	5.88	2944.43	878.79	0.21
Mainstem	136499	100-year	12810.00	24.02	50.866	35.15	51.26	0.000432	5.14	2837.20	443.84	0.19
Mainstem	134904	100-year	12810.00	25.62	50.188	34.72	50.59	0.000408	5.24	2959.75	168.62	0.19
Mainstem	134160	100-year	12810.00	24.07	49.913	33.80	50.29	0.000376	5.12	3151.16	330.80	0.18
Mainstem	133262	100-year	12810.00	21.73	49.545	32.63	49.95	0.000391	5.21	3067.27	341.91	0.18
Mainstem	133204		Bridge									
Mainstem	133140	100-year	12810.00	21.73	49.362	32.85	49.88	0.000504	5.99	2873.35	294.19	0.21
Mainstem	132507	100-year	12810.00	21.64	49.025	33.08	49.53	0.000591	5.88	2637.81	154.47	0.21
Mainstem	132465		Bridge									
Mainstem	132417	100-year	12810.00	21.64	49.095	32.17	49.44	0.000347	4.82	3130.82	173.25	0.17
Mainstem	131139	100-year	12810.00	15.96	48.324	30.90	48.87	0.000557	6.12	2633.21	158.50	0.21
Mainstem	130490	100-year	12810.00	20.03	48.033	31.64	48.51	0.000489	5.78	2923.16	194.00	0.20
Mainstem	129777	100-year	12810.00	16.31	47.542	30.51	48.11	0.000619	6.22	2526.61	140.68	0.21
Mainstem	128816	100-year	12810.00	21.35	47.142	31.29	47.57	0.000437	5.39	2899.15	176.05	0.19
Mainstem	128109	100-year	12810.00	19.64	46.658	31.64	47.20	0.000575	6.08	2627.57	186.76	0.22
Mainstem	128082		Bridge									
Mainstem	128056	100-year	12810.00	19.64	46.679	31.47	47.16	0.000492	5.70	2881.14	203.72	0.21
Mainstem	127053	100-year	12810.00	19.06	45.913	31.17	46.54	0.000735	6.58	2479.51	206.98	0.23

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	127037		Bridge									
Mainstem	127016	100-year	12810.00	19.06	45.865	31.29	46.51	0.000766	6.67	2404.72	138.85	0.24
Mainstem	126958	100-year	12810.00	15.14	45.951	28.51	46.42	0.000552	5.66	2767.86	139.07	0.19
Mainstem	126942		Bridge									
Mainstem	126921	100-year	12810.00	15.14	45.864	28.57	46.39	0.000619	5.99	2603.15	134.21	0.20
Mainstem	125796	100-year	12810.00	18.94	45.477	29.79	45.88	0.000305	5.19	3009.66	177.12	0.19
Mainstem	125712		Bridge									
Mainstem	125627	100-year	12810.00	18.94	45.239	30.13	45.80	0.000427	6.17	2678.49	185.24	0.22
Mainstem	124872	100-year	12530.00	12.43	45.050	27.18	45.48	0.000324	5.40	2983.62	275.49	0.18
Mainstem	123953	100-year	12530.00	13.32	44.833	25.86	45.21	0.000246	5.11	3662.75	517.48	0.17
Mainstem	123161	100-year	12530.00	17.94	44.550	28.48	44.98	0.000318	5.34	2844.31	521.68	0.19
Mainstem	122448	100-year	12530.00	18.06	44.474	27.23	44.76	0.000201	4.34	3401.73	215.80	0.16
Mainstem	122412		Bridge									
Mainstem	122375	100-year	12530.00	18.06	44.400	27.68	44.73	0.000236	4.73	3302.75	204.65	0.17
Mainstem	121583	100-year	12530.00	16.81	44.218	26.17	44.54	0.000236	4.68	3314.07	188.97	0.16
Mainstem	120426	100-year	12530.00	15.94	43.887	26.53	44.25	0.000262	4.95	3186.13	206.85	0.17
Mainstem	119666	100-year	12530.00	16.84	43.719	26.66	44.05	0.000245	4.71	3287.32	191.95	0.17
Mainstem	118425	100-year	12530.00	10.95	43.435	23.96	43.75	0.000226	4.70	3180.94	165.61	0.16
Mainstem	117617	100-year	12530.00	15.01	43.218	25.33	43.56	0.000238	4.81	3151.24	177.49	0.17
Mainstem	116487	100-year	12530.00	14.03	43.047	24.30	43.31	0.000174	4.18	3499.21	190.93	0.14
Mainstem	116429		Bridge									
Mainstem	116371	100-year	12530.00	11.57	42.931	24.86	43.28	0.000241	4.80	3098.45	165.76	0.17
Mainstem	115241	100-year	12530.00	11.25	42.574	23.47	42.97	0.000303	5.13	2925.45	150.29	0.17
Mainstem	114465	100-year	12530.00	9.06	42.387	21.85	42.75	0.000244	4.98	3348.86	204.53	0.16
Mainstem	113747	100-year	12530.00	12.07	42.245	23.48	42.56	0.000231	4.63	3361.99	215.59	0.16
Mainstem	113008	100-year	12690.00	11.60	41.974	23.45	42.36	0.000299	5.20	3137.04	185.16	0.17
Mainstem	112401	100-year	12690.00	12.60	41.813	23.74	42.19	0.000272	5.02	3149.85	187.30	0.17
Mainstem	112369		Bridge									
Mainstem	112337	100-year	12690.00	13.63	41.831	24.31	42.16	0.000235	4.66	3308.60	199.82	0.16
Mainstem	112258	100-year	12690.00	14.03	41.835	23.96	42.13	0.000210	4.42	3242.98	172.34	0.15
Mainstem	112242		Bridge									
Mainstem	112226	100-year	12690.00	14.03	41.749	24.58	42.11	0.000256	4.93	3092.56	169.71	0.17
Mainstem	111661	100-year	12690.00	8.64	41.661	20.69	41.96	0.000221	4.55	3687.42	208.10	0.15
Mainstem	111160	100-year	12690.00	10.54	41.453	22.72	41.83	0.000289	5.02	3148.13	186.99	0.17
Mainstem	110959	100-year	12690.00	12.22	41.394	23.12	41.77	0.000261	5.03	3081.55	174.12	0.17
Mainstem	110410	100-year	12690.00	9.05	41.353	20.15	41.63	0.000168	4.26	3480.33	162.01	0.14
Mainstem	109776	100-year	12690.00	6.72	41.243	18.47	41.52	0.000170	4.31	3579.67	165.40	0.14
Mainstem	108673	100-year	12690.00	8.06	40.949	20.65	41.29	0.000244	4.86	3428.53	176.40	0.16
Mainstem	107928	100-year	12690.00	9.49	40.700	22.63	41.08	0.000312	5.13	3197.35	169.86	0.17
Mainstem	107063	100-year	12690.00	5.88	40.454	20.41	40.83	0.000275	5.01	3138.59	174.61	0.17
Mainstem	106308	100-year	12690.00	11.13	40.289	21.14	40.62	0.000242	4.71	3249.09	332.93	0.16
Mainstem	105120	100-year	12690.00	10.61	40.129	20.58	40.36	0.000159	3.90	3859.64	229.21	0.13
Mainstem	103794	100-year	12690.00	6.68	39.694	19.65	40.06	0.000295	5.02	3219.98	175.22	0.16
Mainstem	102469	100-year	12750.00	10.64	39.320	21.31	39.69	0.000272	4.93	3067.72	174.26	0.17
Mainstem	101820	100-year	12750.00	10.16	39.190	20.97	39.51	0.000232	4.60	3296.74	235.92	0.16
Mainstem	101719	100-year	12750.00	10.16	39.161	21.04	39.48	0.000253	4.61	3166.77	188.88	0.16
Mainstem	101566	100-year	12750.00	5.75	39.036	20.35	39.43	0.000332	5.14	2976.93	193.15	0.17
Mainstem	100716	100-year	12750.00	1.31	38.772	20.06	39.15	0.000315	5.04	3009.25	158.92	0.17
Mainstem	99333	100-year	12750.00	9.13	38.452	20.29	38.76	0.000234	4.47	3240.19	183.27	0.16
Mainstem	99312		Bridge									
Mainstem	99301	100-year	12750.00	9.13	38.425	20.27	38.74	0.000240	4.59	3284.96	183.42	0.16
Mainstem	98271	100-year	12750.00	8.17	37.880	22.08	38.40	0.000410	5.94	2730.40	186.41	0.21
Mainstem	97527	100-year	12750.00	5.97	37.773	18.76	38.10	0.000275	4.68	3394.56	238.75	0.16
Mainstem	96693	100-year	12750.00	6.79	37.690	16.44	37.91	0.000135	3.80	3729.92	192.22	0.13
Mainstem	95420	100-year	12750.00	8.70	37.266	19.54	37.66	0.000272	5.09	2980.81	183.47	0.18
Mainstem	94285	100-year	12750.00	7.88	36.888	21.00	37.31	0.000340	5.31	2901.39	180.07	0.19
Mainstem	94232		Bridge									
Mainstem	94195	100-year	12750.00	7.88	36.794	20.89	37.27	0.000371	5.72	2954.12	182.00	0.20
Mainstem	93065	100-year	12750.00	4.02	36.448	17.59	36.87	0.000313	5.36	3468.81	392.26	0.18
Mainstem	92020	100-year	12750.00	8.76	36.115	19.09	36.52	0.000341	5.26	3001.56	172.80	0.18
Mainstem	90932	100-year	12750.00	7.20	35.642	18.06	36.14	0.000354	5.75	2702.10	152.12	0.20
Mainstem	89786	100-year	12750.00	-1.09	35.470	13.42	35.76	0.000224	4.45	3728.37	261.19	0.14
Mainstem	89744		Bridge									
Mainstem	89691	100-year	12750.00	-1.09	35.392	13.53	35.73	0.000257	4.82	3733.19	267.64	0.15
Mainstem	88704	100-year	12750.00	6.87	35.038	18.52	35.44	0.000325	5.14	2891.73	162.52	0.18
Mainstem	87743	100-year	12750.00	7.95	34.877	17.36	35.15	0.000211	4.26	3473.78	198.16	0.15
Mainstem	86671	100-year	12930.00	5.51	34.533	16.65	34.88	0.000287	4.83	3231.91	177.62	0.17
Mainstem	86407	100-year	12930.00	5.77	34.460	16.73	34.80	0.000308	4.83	3380.91	189.77	0.17
Mainstem	86339	100-year	12930.00	6.58	34.474	16.13	34.77	0.000208	4.46	3555.68	193.15	0.15
Mainstem	85462	100-year	12930.00	2.43	34.007	15.91	34.51	0.000374	5.85	2837.56	164.81	0.20
Mainstem	84564	100-year	12930.00	4.42	33.808	15.70	34.18	0.000278	5.01	3112.14	173.52	0.17
Mainstem	83714	100-year	12930.00	-3.23	33.666	15.16	33.94	0.000224	4.31	3589.16	211.43	0.15
Mainstem	83181	100-year	12930.00	2.90	33.464	15.70	33.81	0.000264	4.76	3157.90	189.85	0.17
Mainstem	83091	100-year	12930.00	2.35	33.433	15.85	33.78	0.000368	4.78	3057.61	200.56	0.17
Mainstem	82342	100-year	12930.00	2.38	33.060	14.24	33.50	0.000360	5.49	3159.86	298.36	0.18

HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	81333	100-year	12930.00	0.84	32.555	14.96	33.08	0.000448	6.03	2794.42	167.99	0.20
Mainstem	80504	100-year	12930.00	2.88	32.380	14.23	32.75	0.000274	4.97	3140.34	174.83	0.17
Mainstem	79728	100-year	12930.00	3.61	31.968	14.99	32.48	0.000391	5.92	2782.54	159.25	0.20
Mainstem	79052	100-year	12930.00	4.50	31.835	14.89	32.21	0.000303	4.97	2986.38	165.41	0.18
Mainstem	78978	100-year	12930.00	3.79	31.833	13.86	32.18	0.000240	4.80	3123.93	164.35	0.17
Mainstem	78852	100-year	12930.00	-0.49	31.692	15.22	32.13	0.000420	5.41	2780.78	160.92	0.19
Mainstem	77869	100-year	12930.00	3.20	31.066	14.79	31.67	0.000485	6.40	2524.23	149.35	0.22
Mainstem	77848	Bridge										
Mainstem	77832	100-year	12930.00	3.20	31.066	14.90	31.65	0.000486	6.29	2527.75	149.16	0.22
Mainstem	77579	100-year	12930.00	3.50	31.108	14.25	31.50	0.000287	5.08	2996.16	161.28	0.18
Mainstem	77400	100-year	12930.00	2.77	30.986	14.68	31.43	0.000437	5.49	2936.09	167.37	0.19
Mainstem	76740	100-year	12930.00	2.96	30.468	14.84	31.10	0.000509	6.53	2475.72	146.64	0.23
Mainstem	75662	100-year	12930.00	3.63	29.901	15.79	30.52	0.000554	6.51	2564.38	174.82	0.24
Mainstem	75610	Bridge										
Mainstem	75557	100-year	12930.00	3.63	29.944	14.51	30.42	0.000368	5.69	2707.43	164.62	0.20
Mainstem	74812	100-year	12930.00	2.01	29.730	12.81	30.14	0.000339	5.25	2942.71	167.15	0.18
Mainstem	74036	100-year	12930.00	1.60	29.215	13.78	29.81	0.000480	6.34	2540.18	158.30	0.22
Mainstem	73350	100-year	12930.00	3.13	29.047	13.42	29.48	0.000349	5.39	2828.94	165.03	0.19
Mainstem	72626	100-year	12930.00	2.18	28.673	13.19	29.20	0.000420	5.94	2642.77	157.99	0.21
Mainstem	71444	100-year	12930.00	-0.11	28.120	12.68	28.68	0.000456	6.10	2486.02	137.60	0.22
Mainstem	70520	100-year	12930.00	2.26	27.801	12.69	28.26	0.000382	5.56	2751.87	165.11	0.20
Mainstem	70483	Bridge										
Mainstem	70472	100-year	12930.00	2.26	27.798	12.59	28.23	0.000352	5.35	2754.36	167.86	0.20
Mainstem	69796	100-year	12930.00	2.09	27.563	12.64	27.99	0.000358	5.31	2763.28	154.99	0.20
Mainstem	68930	100-year	12930.00	2.12	27.122	13.37	27.64	0.000446	5.84	2535.53	159.45	0.22
Mainstem	68878	Bridge										
Mainstem	68814	100-year	12930.00	2.84	27.039	12.79	27.53	0.000458	5.73	2667.90	167.00	0.21
Mainstem	68181	100-year	12930.00	-2.79	26.883	11.13	27.25	0.000321	4.89	2820.41	159.05	0.18
Mainstem	67220	100-year	12930.00	-3.21	26.609	11.31	26.95	0.000294	4.80	3409.95	290.32	0.18
Mainstem	66327	100-year	12930.00	-0.29	26.181	11.58	26.64	0.000384	5.50	2735.41	173.37	0.20
Mainstem	65704	100-year	12930.00	2.34	25.992	11.57	26.39	0.000360	5.13	2934.98	189.34	0.19
Mainstem	65615	Bridge										
Mainstem	65535	100-year	12930.00	-0.46	25.922	10.69	26.23	0.000316	4.52	3122.74	195.94	0.18
Mainstem	65366	100-year	12930.00	-2.38	25.689	10.45	26.16	0.000458	5.59	2756.78	171.17	0.20
Mainstem	65314	Bridge										
Mainstem	65277	100-year	12930.00	-2.38	25.506	10.10	26.09	0.000568	6.25	2501.21	149.63	0.22
Mainstem	64907	100-year	12930.00	-1.17	25.228	11.39	25.87	0.000559	6.56	2357.51	145.79	0.24
Mainstem	64854	Bridge										
Mainstem	64812	100-year	12930.00	-2.16	25.273	9.12	25.77	0.000410	5.73	2602.12	152.91	0.20
Mainstem	64664	100-year	12930.00	-4.94	24.944	10.13	25.66	0.000790	6.92	2201.66	149.96	0.25
Mainstem	64611	Bridge										
Mainstem	64564	100-year	12930.00	-1.06	24.996	10.19	25.56	0.000496	6.09	2456.70	153.53	0.22
Mainstem	64490	100-year	12930.00	-2.57	25.140	7.77	25.46	0.000249	4.54	3083.74	160.70	0.16
Mainstem	64474	Bridge										
Mainstem	64453	100-year	12930.00	-2.57	25.115	7.78	25.45	0.000252	4.67	3093.54	168.37	0.17
Mainstem	63809	100-year	12930.00	3.01	24.927	11.06	25.27	0.000304	4.78	3278.96	211.85	0.18
Mainstem	62610	100-year	12930.00	2.08	24.563	10.96	24.90	0.000303	4.72	3025.61	181.35	0.19
Mainstem	61570	100-year	12930.00	-0.98	23.936	10.45	24.49	0.000485	6.07	2506.11	175.88	0.23
Mainstem	61533	Bridge										
Mainstem	61501	100-year	12930.00	-0.98	23.877	10.43	24.44	0.000489	6.10	2477.37	160.33	0.23
Mainstem	60646	100-year	12930.00	-0.37	23.589	10.58	24.01	0.000417	5.22	2613.94	162.33	0.21
Mainstem	60504	100-year	12930.00	-6.53	23.611	6.90	23.93	0.000270	4.59	3112.31	174.65	0.17
Mainstem	59796	100-year	12930.00	-4.05	23.236	7.60	23.70	0.000375	5.49	2636.51	150.85	0.20
Mainstem	59036	100-year	12930.00	-1.28	22.903	9.05	23.38	0.000466	5.57	2500.59	148.48	0.22
Mainstem	58075	100-year	12930.00	-2.23	22.537	9.13	22.93	0.000410	5.09	2762.11	176.40	0.20
Mainstem	58011	Bridge										
Mainstem	57980	100-year	12930.00	-0.91	22.552	8.36	22.88	0.000298	4.62	3004.18	339.75	0.18
Mainstem	57119	100-year	13410.00	1.48	22.210	10.27	22.59	0.000368	4.98	2987.44	203.12	0.20
Mainstem	57045	100-year	13410.00	0.97	22.225	9.13	22.54	0.000319	4.55	3091.11	195.69	0.18
Mainstem	56380	100-year	13410.00	-2.70	21.720	9.97	22.25	0.000562	5.87	2543.42	209.26	0.24
Mainstem	55672	100-year	13410.00	-0.24	21.524	8.64	21.88	0.000370	4.78	3006.11	224.96	0.19
Mainstem	54907	100-year	13410.00	-7.84	21.120	7.63	21.56	0.000446	5.34	2762.75	175.38	0.21
Mainstem	54896	Bridge										
Mainstem	54886	100-year	13410.00	-7.84	21.100		21.52	0.000433	5.26	2735.38	167.24	0.21
Mainstem	53756	100-year	13410.00	-0.71	20.719	8.32	21.06	0.000354	4.70	3126.30	408.89	0.19
Mainstem	52858	100-year	13410.00	-0.45	20.392	8.27	20.73	0.000378	4.79	3513.07	441.30	0.20
Mainstem	51855	100-year	13410.00	-7.58	19.959	6.67	20.32	0.000434	4.87	3105.55	257.71	0.20
Mainstem	50894	100-year	13410.00	-2.28	19.578	7.41	19.94	0.000367	4.85	3034.60	202.04	0.20
Mainstem	49959	100-year	13410.00	-4.51	19.213	7.28	19.57	0.000419	4.82	2953.25	353.56	0.20
Mainstem	48909	100-year	13410.00	-9.47	18.548	5.80	19.04	0.000576	5.69	2587.07	199.48	0.23
Mainstem	48877	Bridge										
Mainstem	48840	100-year	13410.00	-9.47	18.495	5.81	19.00	0.000614	5.76	2569.47	207.98	0.23
Mainstem	47583	100-year	13410.00	-3.57	17.939		18.31	0.000443	4.91	2946.85	243.32	0.21
Mainstem	46469	100-year	13410.00	-6.77	17.431		17.82	0.000444	4.98	2744.93	189.62	0.21
Mainstem	45651	100-year	13410.00	-8.06	16.893		17.38	0.000618	5.61	2483.69	175.06	0.24

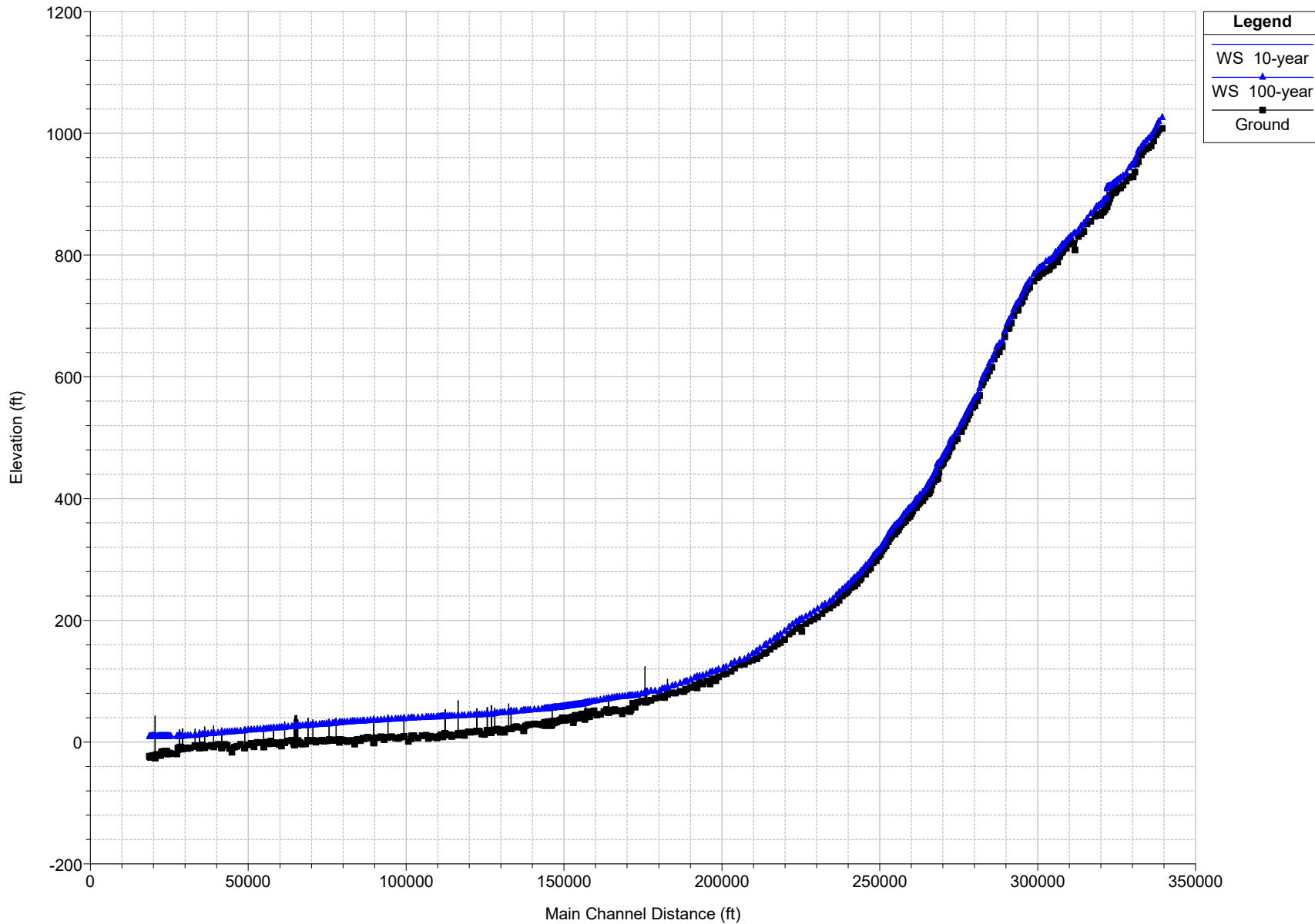
HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

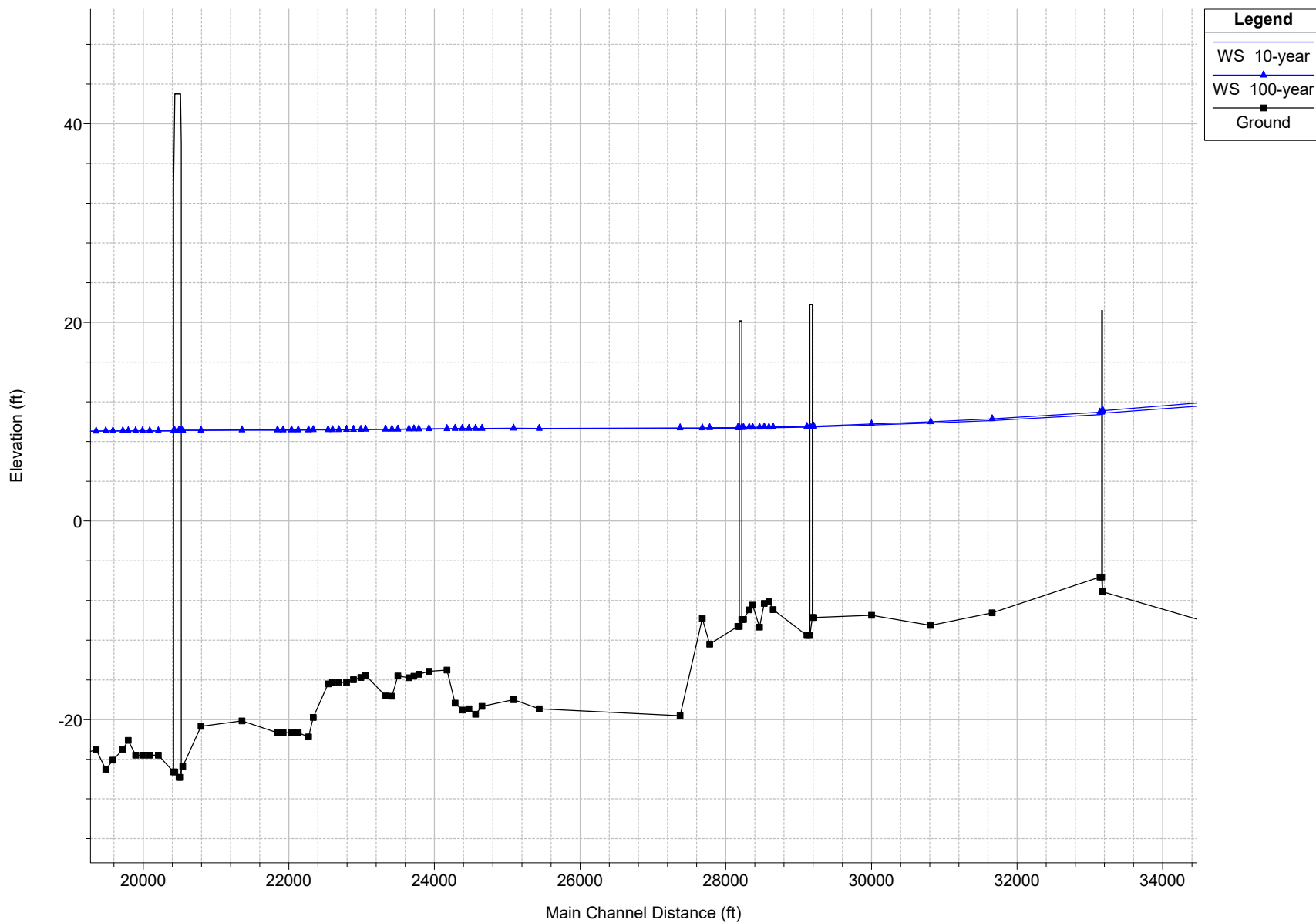
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	44822	100-year	13410.00	-16.74	16.734		16.96	0.000290	3.88	3749.91	308.67	0.16
Mainstem	44030	100-year	13410.00	-10.52	16.313		16.67	0.000431	4.84	2902.36	192.63	0.20
Mainstem	43322	100-year	13410.00	-5.44	16.124		16.37	0.000333	4.04	3472.84	276.01	0.18
Mainstem	42557	100-year	13410.00	-3.65	15.722		16.07	0.000438	4.77	2950.47	226.90	0.21
Mainstem	41601	100-year	13410.00	-9.33	15.235	4.36	15.62	0.000511	4.98	2827.03	216.98	0.22
Mainstem	41554											
Mainstem	41506	100-year	13410.00	-9.33	15.007	5.06	15.53	0.000750	5.80	2427.09	177.98	0.25
Mainstem	40403	100-year	13410.00	-3.69	14.613		14.90	0.000358	4.33	3166.67	221.30	0.19
Mainstem	39077	100-year	13410.00	-7.62	14.026	3.02	14.38	0.000432	4.76	2865.82	190.45	0.21
Mainstem	39056											
Mainstem	39014	100-year	13410.00	-5.87	13.988		14.32	0.000389	4.61	2970.36	199.54	0.20
Mainstem	38343	100-year	13410.00	-5.39	13.670		14.03	0.000466	4.80	2820.84	192.74	0.22
Mainstem	37261	100-year	13410.00	-6.47	13.189		13.54	0.000429	4.78	2837.22	186.81	0.21
Mainstem	36226	100-year	13410.00	-9.10	12.768	2.37	13.09	0.000424	4.57	2968.93	223.10	0.21
Mainstem	36173											
Mainstem	36120	100-year	13410.00	-9.10	12.648	2.55	13.03	0.000502	4.98	2774.86	223.50	0.22
Mainstem	35434	100-year	13410.00	-4.42	12.361		12.69	0.000457	4.58	2946.23	217.67	0.21
Mainstem	34653	100-year	13410.00	-9.97	12.023	1.03	12.35	0.000402	4.60	2925.56	219.38	0.20
Mainstem	34579											
Mainstem	34510	100-year	13410.00	-9.97	11.901	1.23	12.28	0.000496	4.95	2734.38	182.76	0.22
Mainstem	33180	100-year	13410.00	-7.14	11.094	1.66	11.52	0.000666	5.22	2590.22	187.70	0.24
Mainstem	33164											
Mainstem	33137	100-year	13410.00	-5.66	10.947	2.95	11.47	0.000852	5.78	2376.74	211.65	0.28
Mainstem	31659	100-year	13410.00	-9.25	10.282	-0.73	10.58	0.000388	4.39	3139.50	238.25	0.20
Mainstem	30814	100-year	13410.00	-10.52	9.993		10.26	0.000348	4.17	3269.92	218.84	0.18
Mainstem	30001	100-year	13410.00	-9.50	9.754		9.99	0.000300	3.89	3482.15	246.18	0.18
Mainstem	29209	100-year	13410.00	-9.72	9.543	-1.57	9.76	0.000268	3.73	3632.00	245.72	0.17
Mainstem	29172											
Mainstem	29114	100-year	13410.00	-11.54	9.504	-1.91	9.68	0.000213	3.34	4033.05	279.66	0.15
Mainstem	28649	100-year	13410.00	-8.94	9.457		9.58	0.000156	2.77	4857.38	352.30	0.13
Mainstem	28591	100-year	13410.00	-8.12	9.448		9.57	0.000154	2.74	4923.60	364.96	0.13
Mainstem	28528	100-year	13410.00	-8.30	9.451		9.55	0.000131	2.57	5257.60	376.32	0.12
Mainstem	28464	100-year	13410.00	-10.68	9.442		9.54	0.000141	2.57	5231.49	391.10	0.12
Mainstem	28369	100-year	13410.00	-8.48	9.426		9.53	0.000145	2.58	5204.79	391.04	0.12
Mainstem	28322	100-year	13410.00	-8.95	9.426		9.52	0.000129	2.47	5493.72	419.14	0.12
Mainstem	28243	100-year	13410.00	-9.92	9.416	-2.38	9.51	0.000129	2.46	5460.98	406.87	0.12
Mainstem	28190											
Mainstem	28164	100-year	13410.00	-10.62	9.383		9.48	0.000131	2.53	5303.16	379.05	0.12
Mainstem	27778	100-year	13410.00	-12.40	9.391		9.43	0.000064	1.58	8515.15	726.88	0.08
Mainstem	27678	100-year	13410.00	-9.82	9.352		9.42	0.000138	2.08	6524.48	680.42	0.12
Mainstem	27372	100-year	13410.00	-19.62	9.371		9.39	0.000021	1.14	11865.67	758.25	0.05
Mainstem	25439	100-year	13410.00	-18.93	9.313		9.34	0.000031	1.37	9775.99	597.37	0.06
Mainstem	25085	100-year	13410.00	-18.00	9.329		9.33	0.000003	0.46	28875.09	1441.81	0.02
Mainstem	24652	100-year	13410.00	-18.66	9.311		9.33	0.000018	1.04	12941.72	808.34	0.05
Mainstem	24563	100-year	13410.00	-19.46	9.310		9.33	0.000017	1.02	13124.21	808.96	0.04
Mainstem	24473	100-year	13410.00	-18.92	9.309		9.32	0.000017	1.02	13224.40	806.54	0.04
Mainstem	24383	100-year	13410.00	-19.03	9.308		9.32	0.000017	0.99	13537.39	837.19	0.04
Mainstem	24283	100-year	13410.00	-18.35	9.306		9.32	0.000016	0.99	13645.81	843.43	0.04
Mainstem	24172	100-year	13410.00	-15.01	9.293		9.32	0.000030	1.27	10583.11	713.64	0.06
Mainstem	23924	100-year	13410.00	-15.13	9.276		9.31	0.000031	1.48	9358.49	547.34	0.06
Mainstem	23786	100-year	13410.00	-15.45	9.272		9.30	0.000033	1.45	9300.51	549.10	0.06
Mainstem	23718	100-year	13410.00	-15.64	9.269		9.30	0.000037	1.47	9115.05	546.90	0.06
Mainstem	23649	100-year	13410.00	-15.78	9.265		9.30	0.000037	1.51	9029.31	578.53	0.06
Mainstem	23496	100-year	13410.00	-15.62	9.250		9.29	0.000045	1.67	8134.58	517.30	0.07
Mainstem	23417	100-year	13410.00	-17.65	9.249		9.29	0.000041	1.60	8389.09	493.08	0.07
Mainstem	23327	100-year	13410.00	-17.63	9.240		9.28	0.000048	1.69	7955.57	485.19	0.07
Mainstem	23052	100-year	13410.00	-15.55	9.226		9.27	0.000045	1.70	7888.30	465.13	0.07
Mainstem	22989	100-year	13410.00	-15.75	9.223		9.27	0.000045	1.70	7910.55	464.31	0.07
Mainstem	22889	100-year	13410.00	-15.99	9.218		9.26	0.000048	1.72	7798.03	466.36	0.07
Mainstem	22794	100-year	13410.00	-16.26	9.203		9.26	0.000051	1.88	7145.13	403.06	0.08
Mainstem	22688	100-year	13410.00	-16.25	9.195		9.25	0.000053	1.92	7011.66	398.95	0.08
Mainstem	22598	100-year	13410.00	-16.28	9.192		9.25	0.000053	1.88	7137.23	412.22	0.08
Mainstem	22540	100-year	13410.00	-16.40	9.188		9.24	0.000140	1.86	7222.98	408.82	0.08
Mainstem	22334	100-year	13410.00	-19.78	9.176		9.23	0.000046	1.79	7518.16	420.41	0.07
Mainstem	22271	100-year	13410.00	-21.75	9.173		9.22	0.000045	1.78	7559.36	417.55	0.07
Mainstem	22128	100-year	13410.00	-21.34	9.170		9.22	0.000039	1.71	7865.31	410.78	0.07
Mainstem	22039	100-year	13410.00	-21.34	9.169		9.21	0.000035	1.64	8197.34	416.38	0.06
Mainstem	21923	100-year	13410.00	-21.34	9.169		9.21	0.000029	1.54	8722.72	431.05	0.06
Mainstem	21843	100-year	13410.00	-21.34	9.164		9.20	0.000032	1.60	8427.26	423.40	0.06
Mainstem	21358	100-year	13410.00	-20.14	9.153		9.19	0.000031	1.44	9396.60	550.82	0.06
Mainstem	20793	100-year	13410.00	-20.69	9.136		9.17	0.000031	1.42	9433.71	552.33	0.06
Mainstem	20544	100-year	13410.00	-24.74	9.132		9.16	0.000027	1.34	10023.75	572.30	0.06
Mainstem	20492	100-year	13410.00	-25.82	9.129	-15.23	9.16	0.000025	1.35	9969.56	548.86	0.05
Mainstem	20428											
Mainstem	20418	100-year	13410.00	-25.29	9.085		9.12	0.000075	1.47	9233.45	495.76	0.06

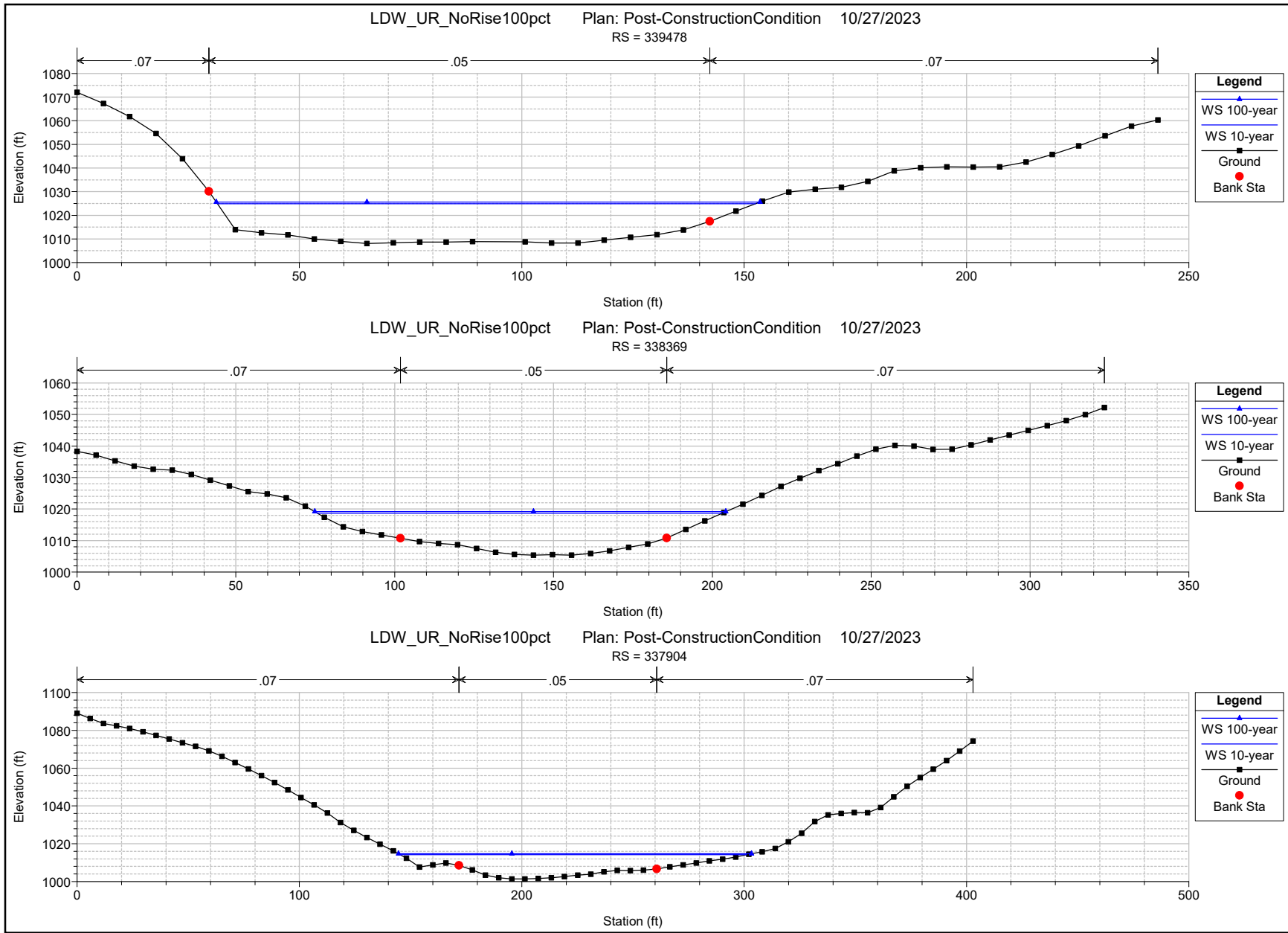
HEC-RAS Plan: Post-Construction River: Green River Reach: Mainstem Profile: 100-year (Continued)

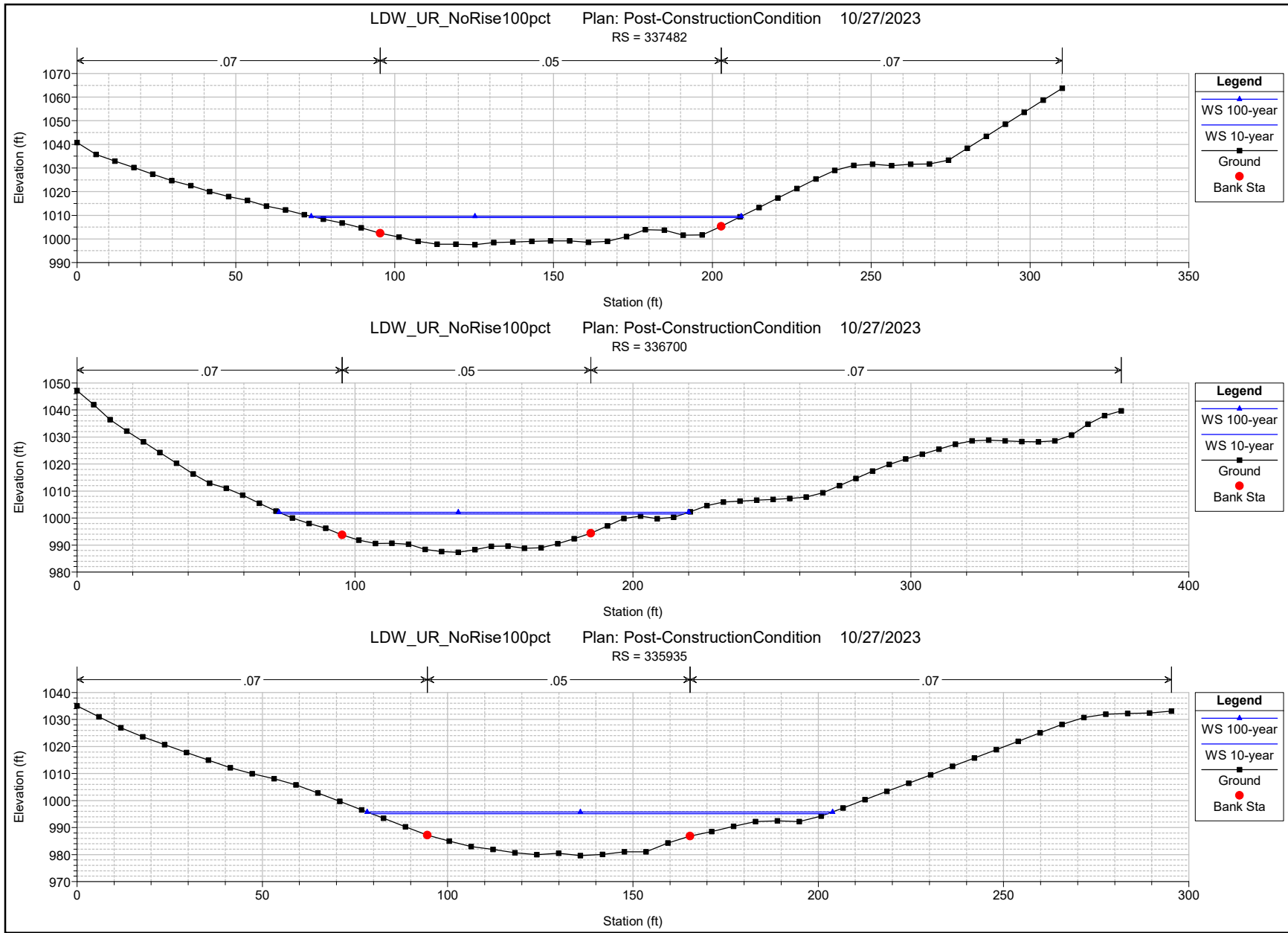
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Mainstem	20207	100-year	13410.00	-23.59	9.075		9.11	0.000030	1.53	8876.43	464.98	0.06
Mainstem	20090	100-year	13410.00	-23.59	9.071		9.11	0.000031	1.52	8810.82	461.68	0.06
Mainstem	19990	100-year	13410.00	-23.59	9.065		9.10	0.000031	1.59	8644.11	451.35	0.06
Mainstem	19895	100-year	13410.00	-23.59	9.064		9.10	0.000032	1.53	8851.47	496.76	0.06
Mainstem	19795	100-year	13410.00	-22.09	9.061		9.10	0.000032	1.52	9015.11	577.92	0.06
Mainstem	19721	100-year	13410.00	-23.02	9.062		9.09	0.000026	1.41	9799.70	630.87	0.06
Mainstem	19584	100-year	13410.00	-24.09	9.059		9.09	0.000025	1.42	9835.82	627.68	0.06
Mainstem	19488	100-year	13410.00	-25.03	9.057		9.09	0.000024	1.41	9879.64	612.37	0.05
Mainstem	19356	100-year	13410.00	-23.02	9.049		9.08	0.000028	1.48	9407.84	610.06	0.06
Mainstem	19188	100-year	13410.00	-23.45	9.045		9.08	0.000028	1.47	9291.43	537.52	0.06
Mainstem	19077	100-year	13410.00	-24.95	9.044		9.07	0.000026	1.41	9519.81	488.67	0.06
Mainstem	18966	100-year	13410.00	-24.52	9.041		9.07	0.000027	1.40	9584.50	523.23	0.06
Mainstem	18876	100-year	13410.00	-24.53	9.040		9.07	0.000027	1.35	9966.04	566.41	0.06
Mainstem	18781	100-year	13410.00	-23.90	9.034		9.07	0.000028	1.43	9378.30	501.50	0.06
Mainstem	18670	100-year	13410.00	-23.09	9.020	-13.61	9.06	0.000036	1.63	8251.13	439.97	0.07

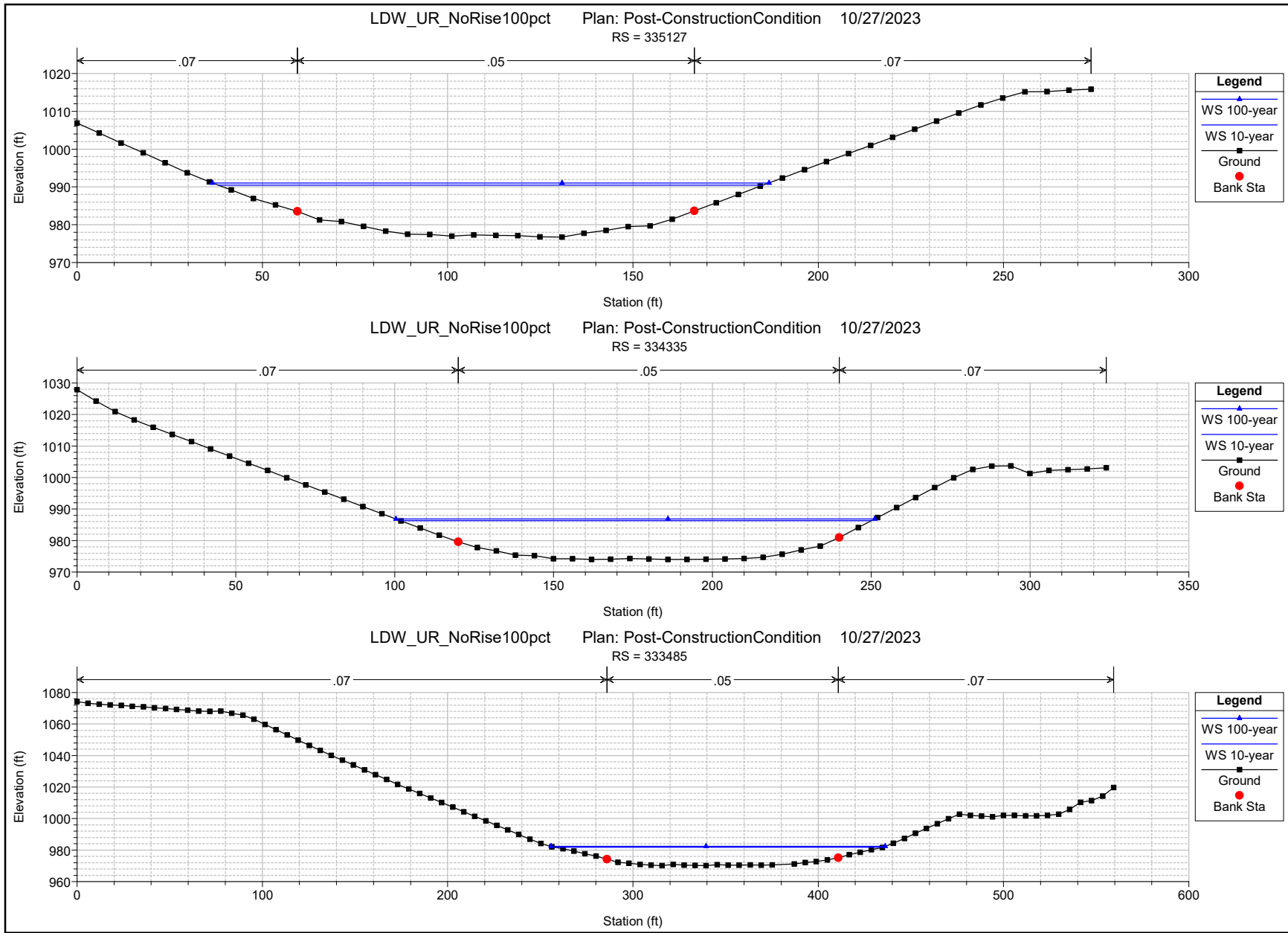


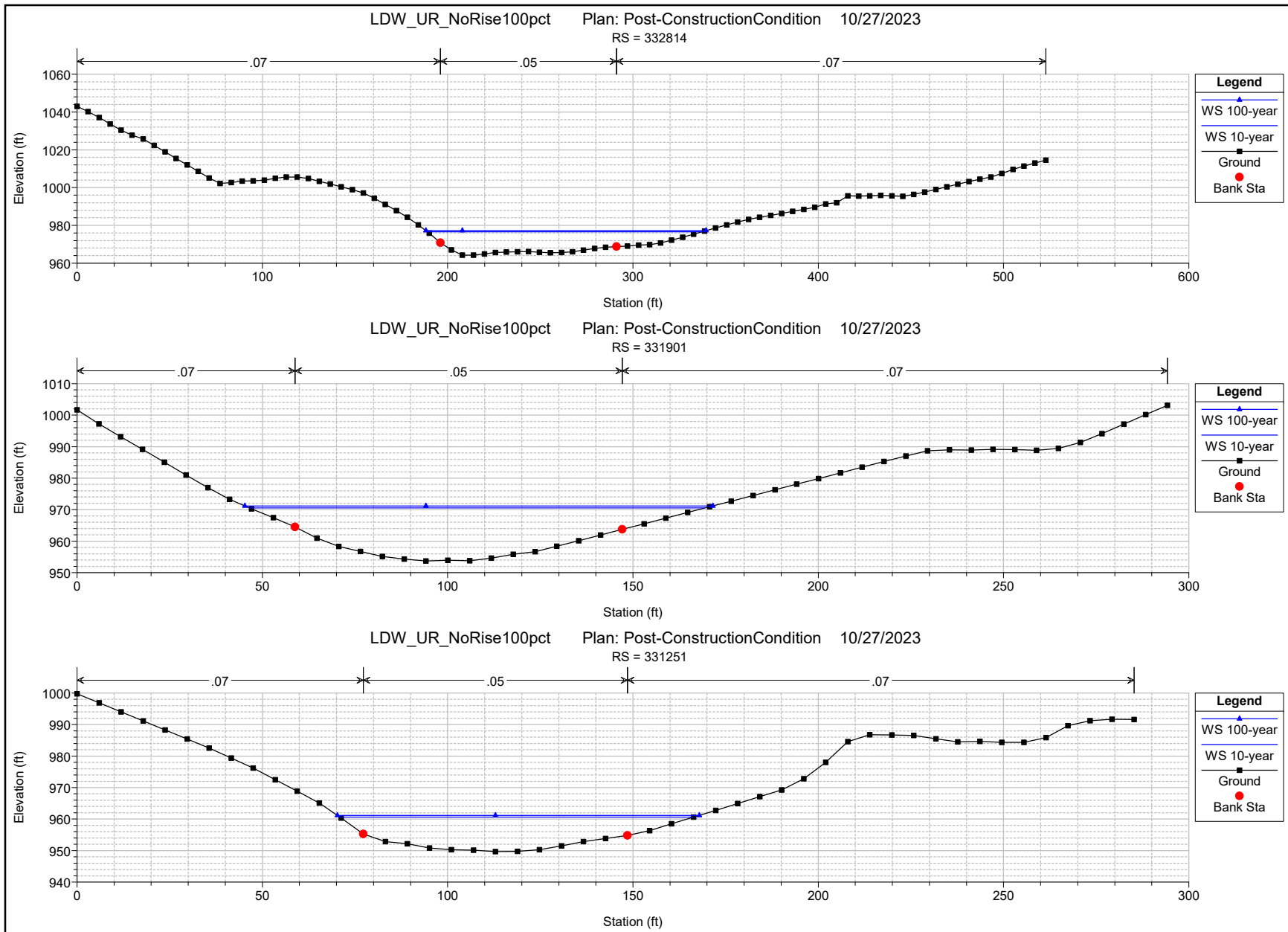


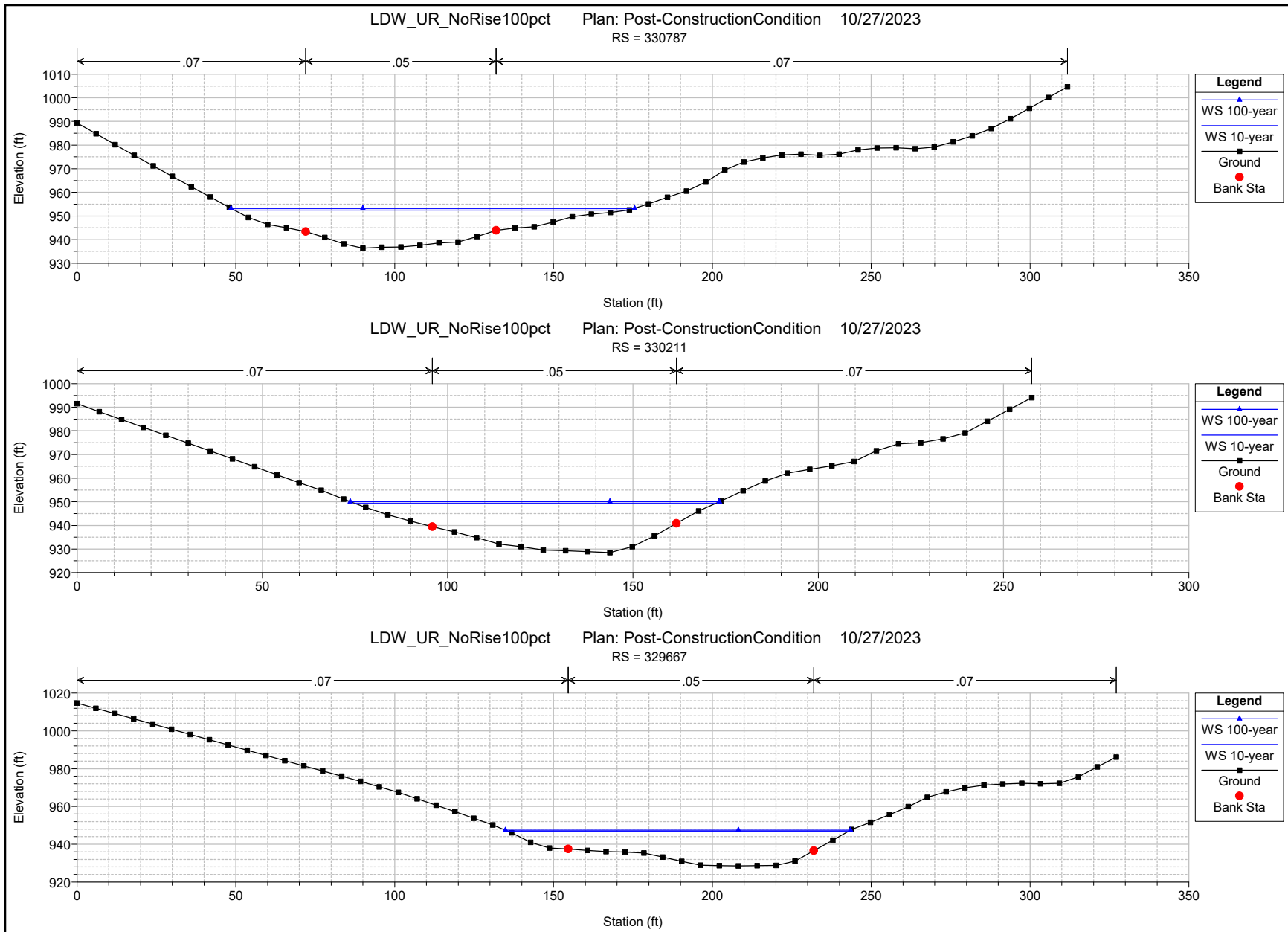


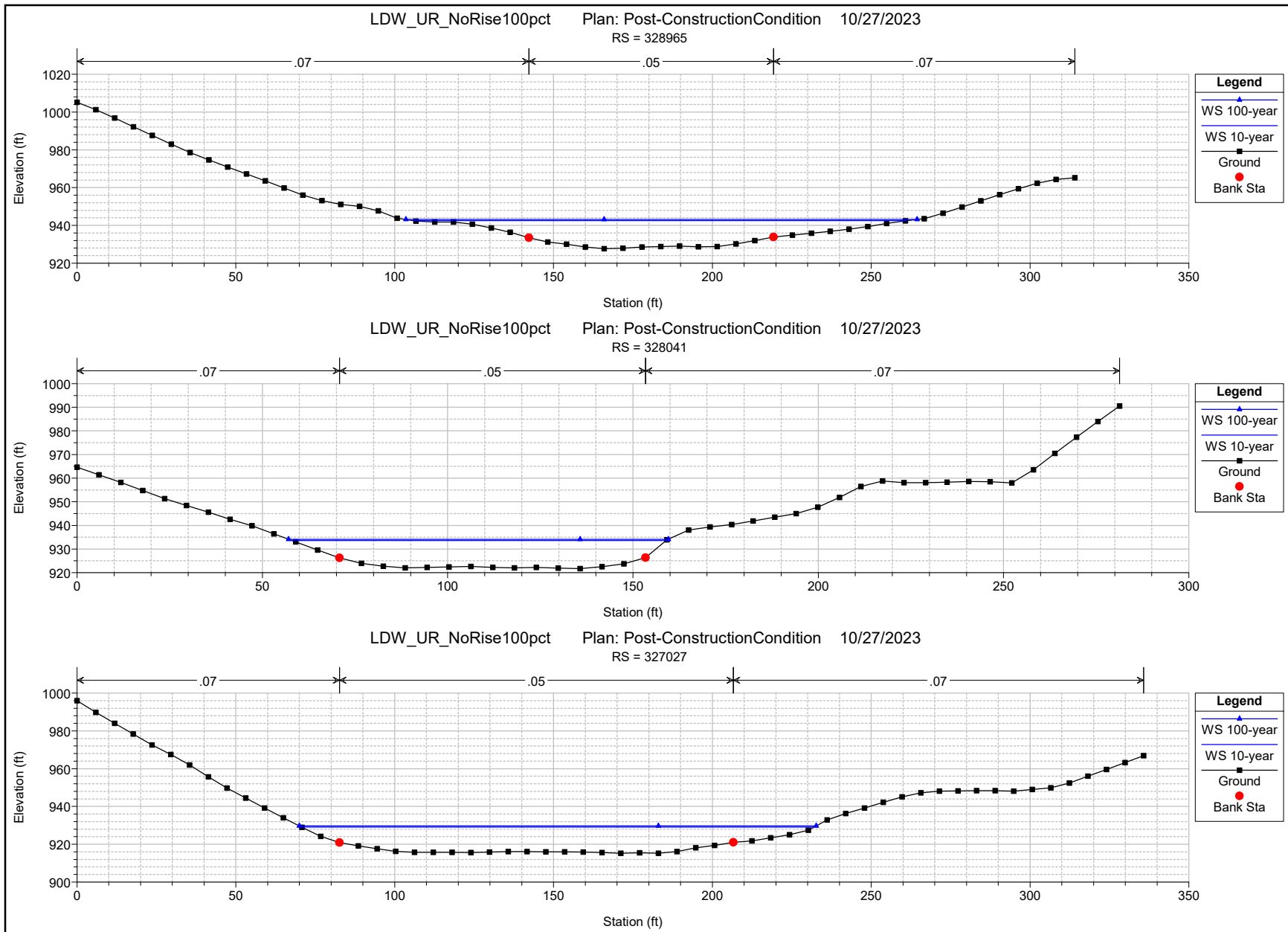




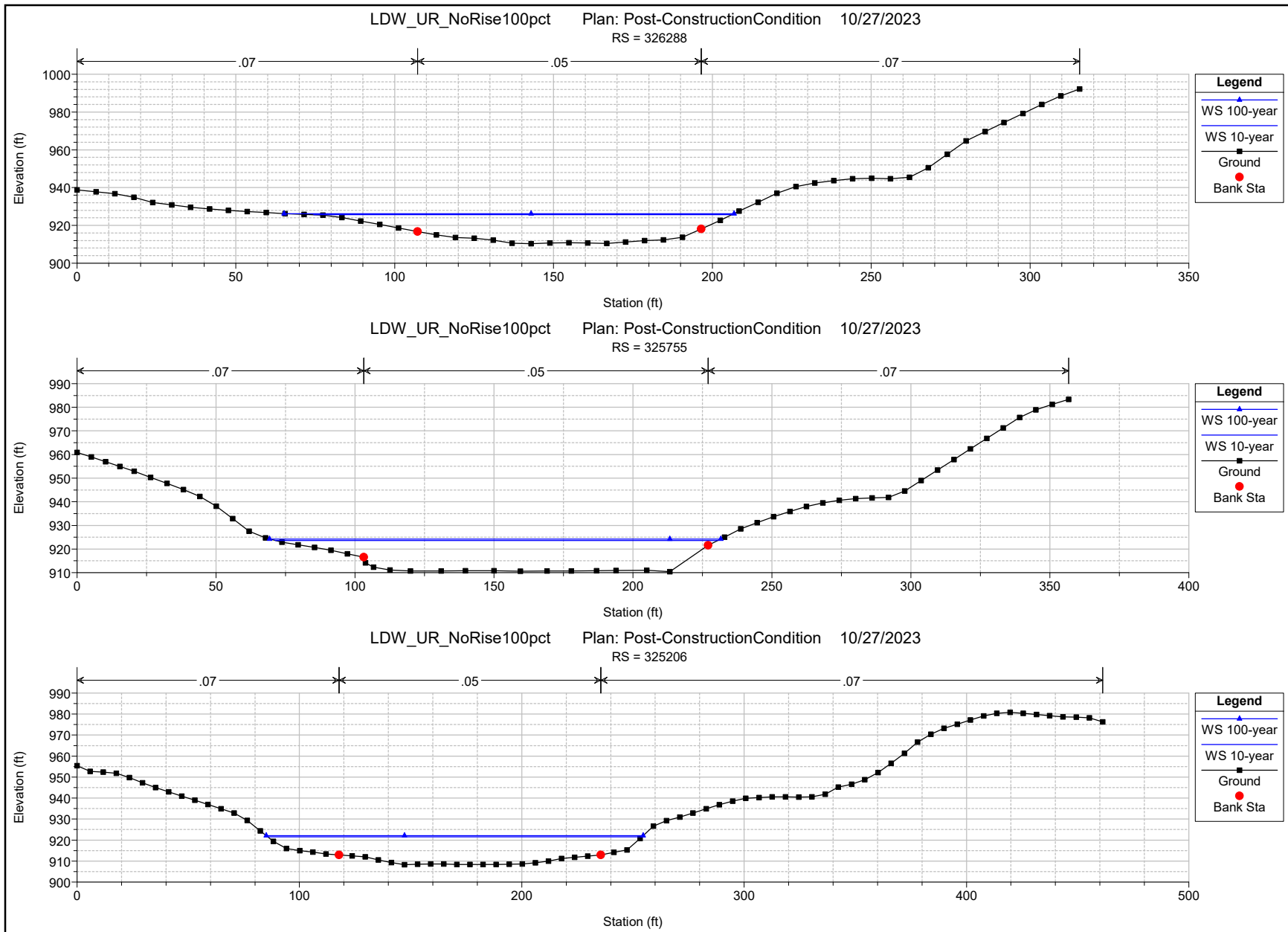


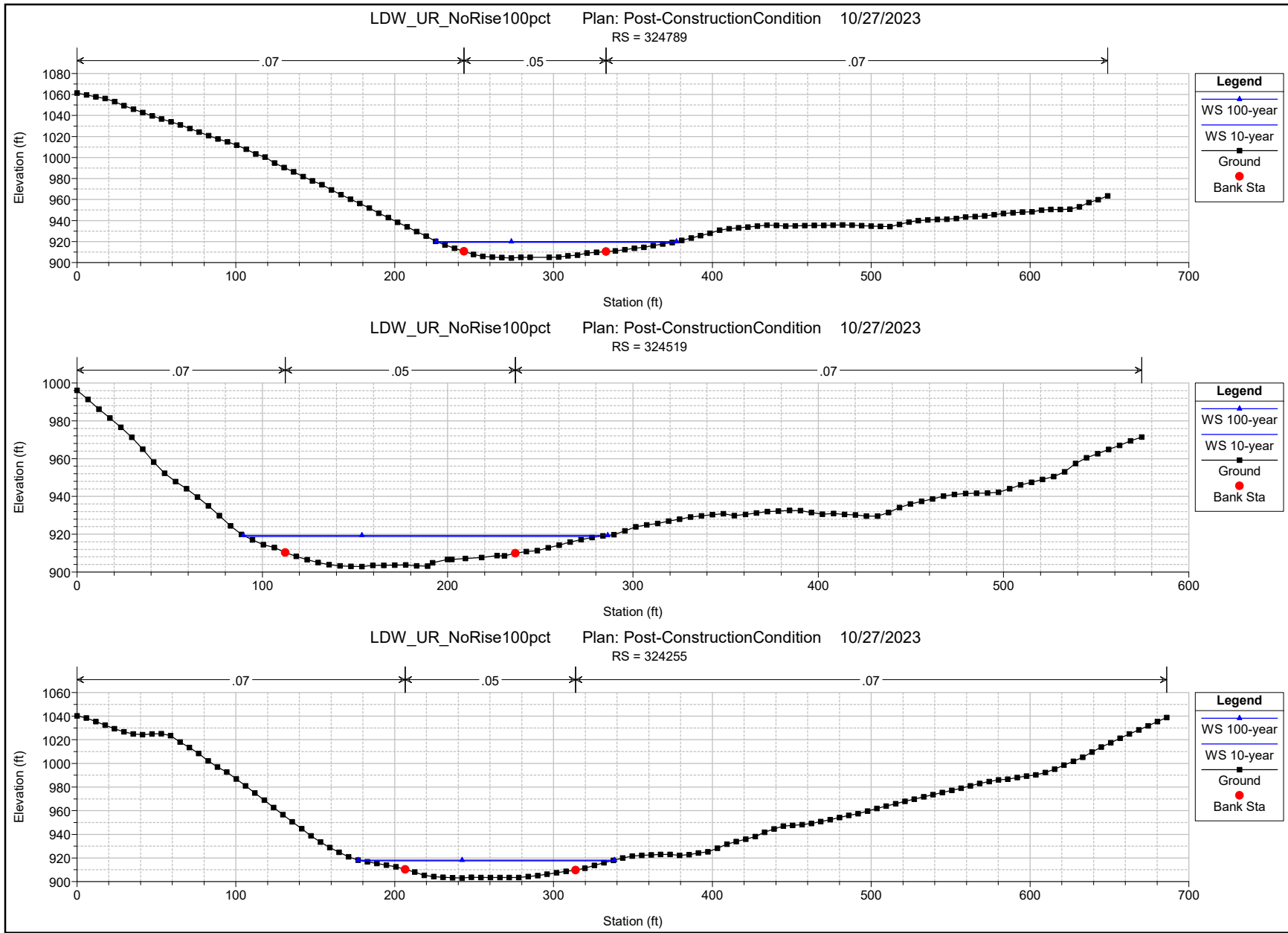


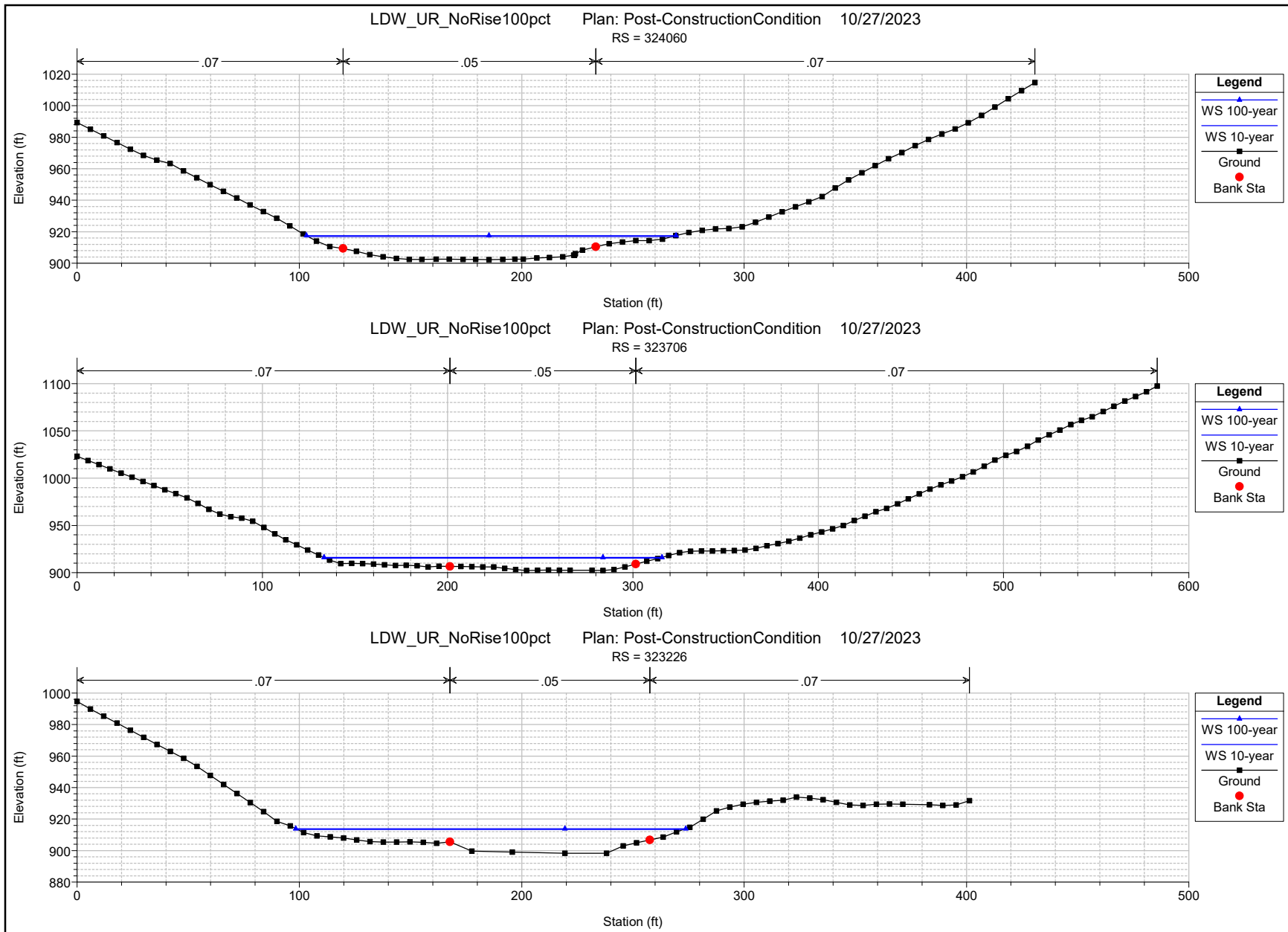


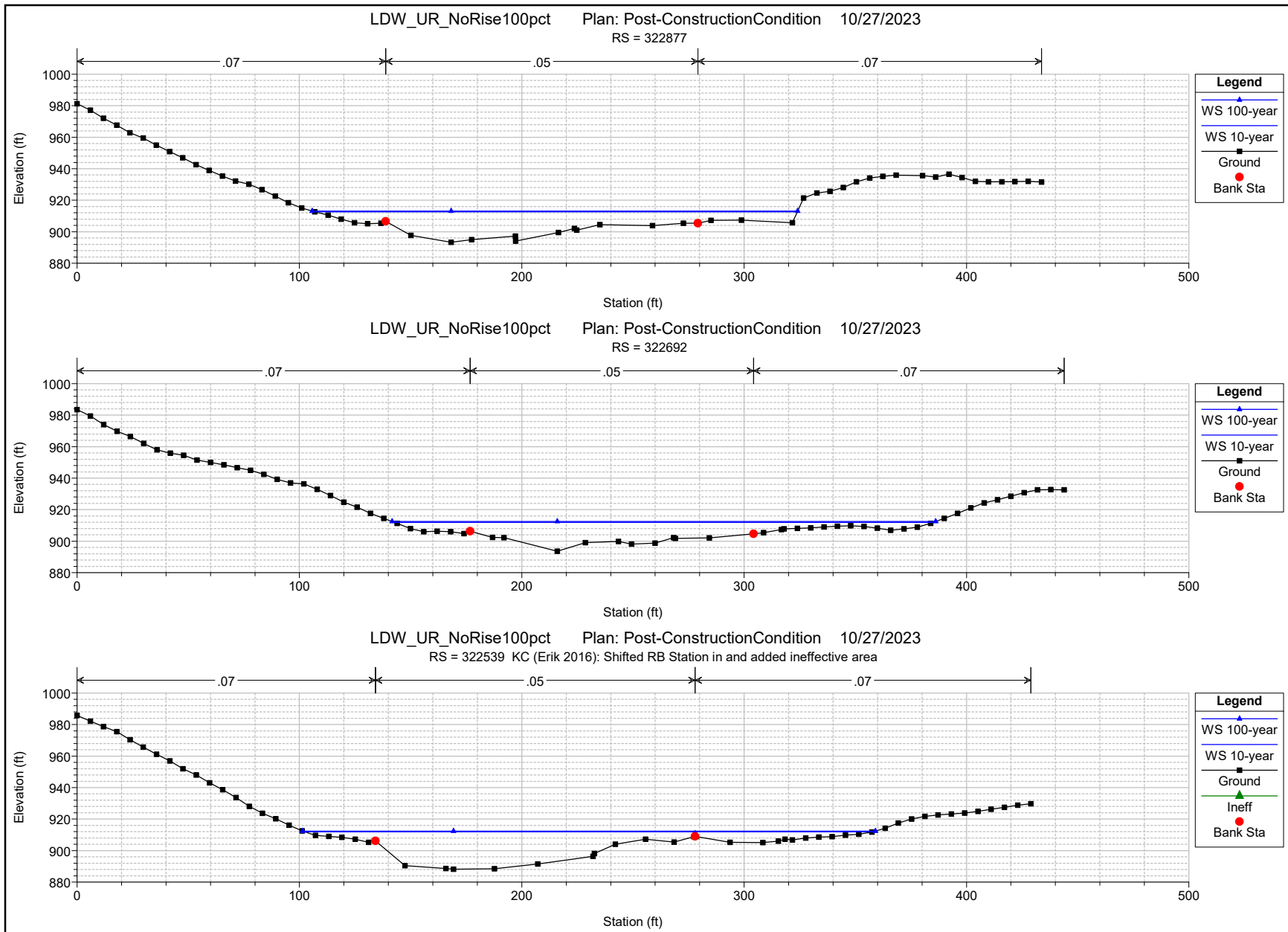


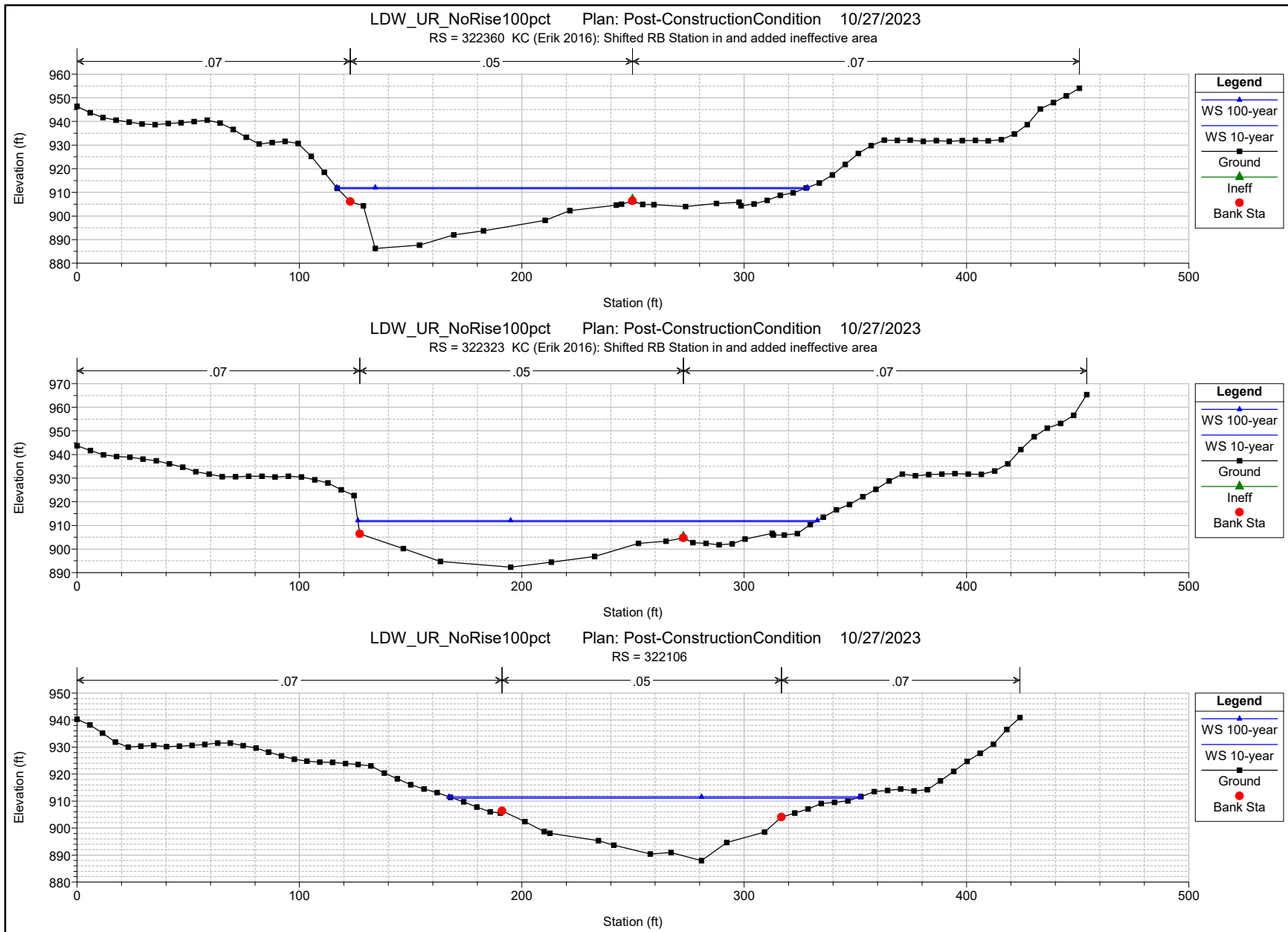




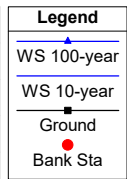
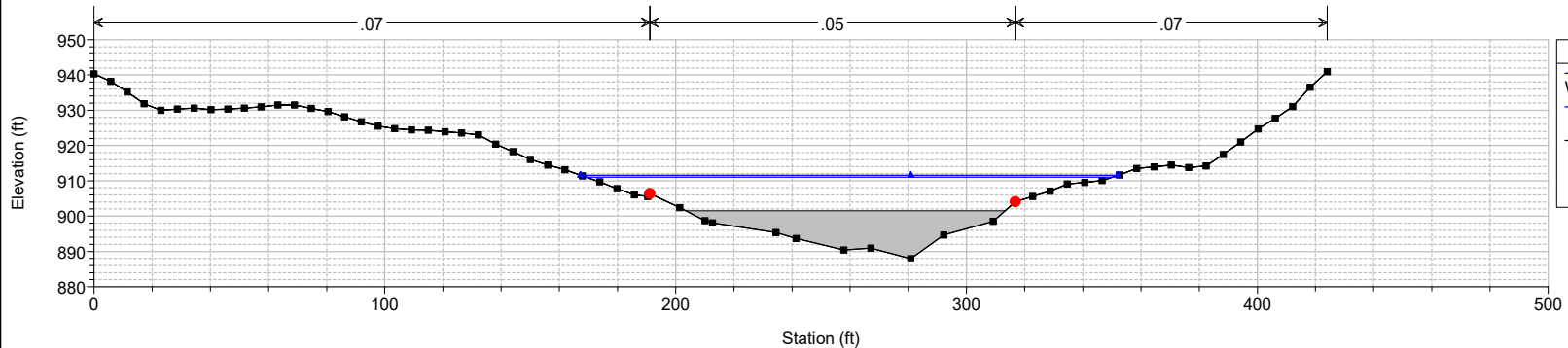




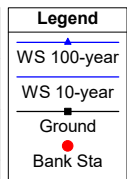
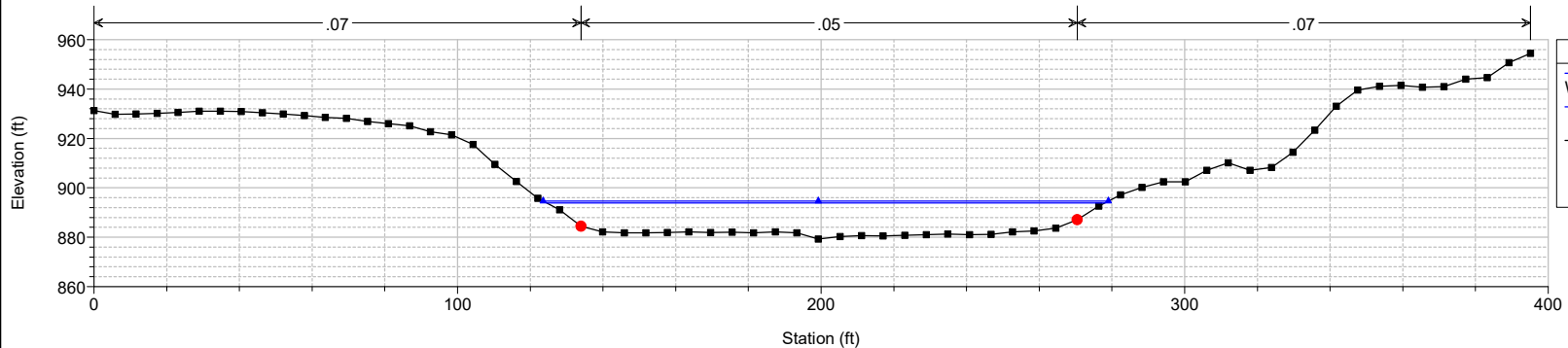




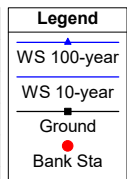
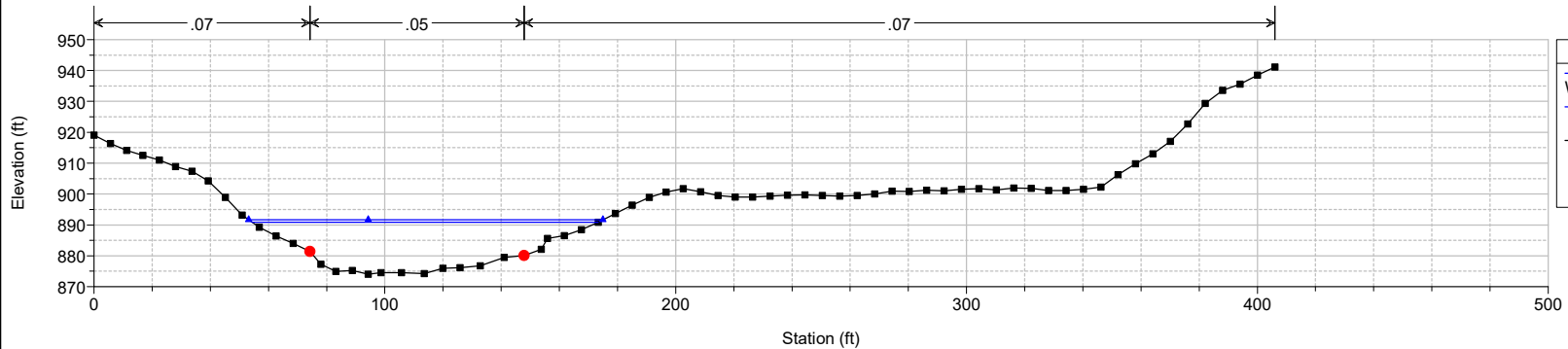
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 321990 IS Tacoma Water Diversion Dam



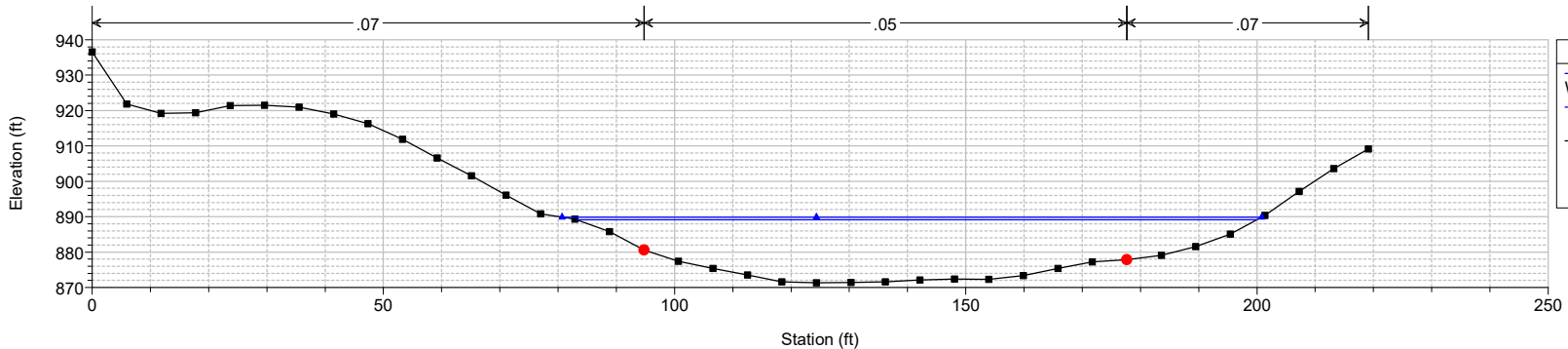
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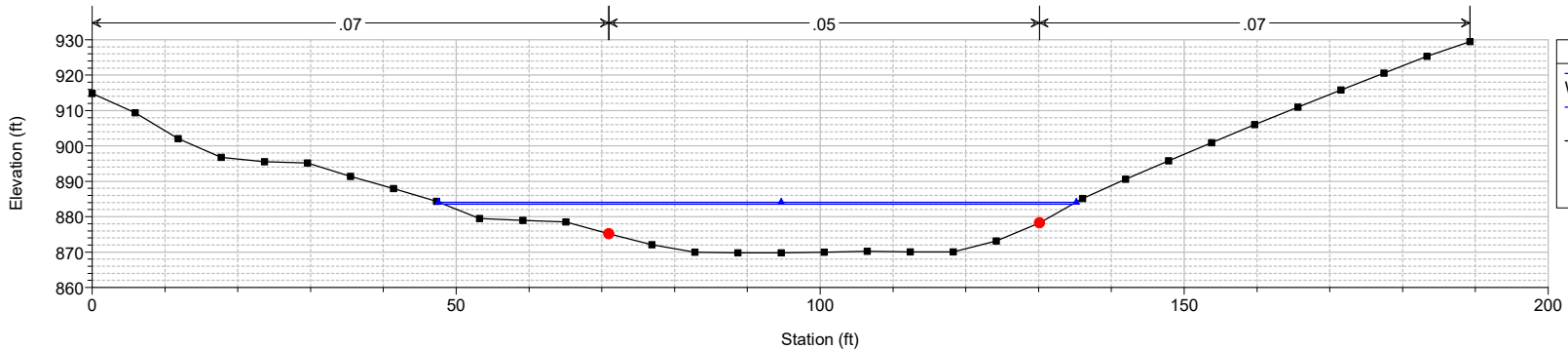
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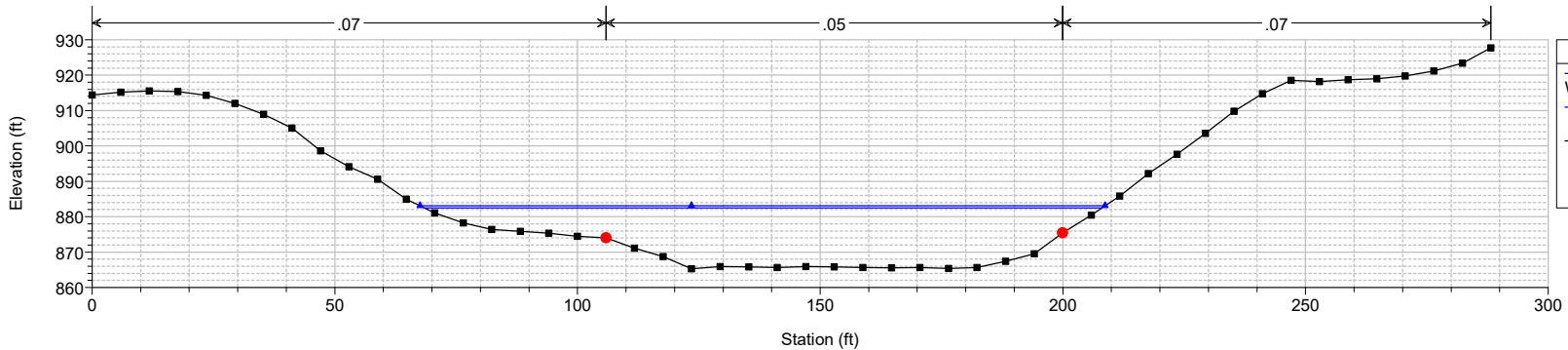
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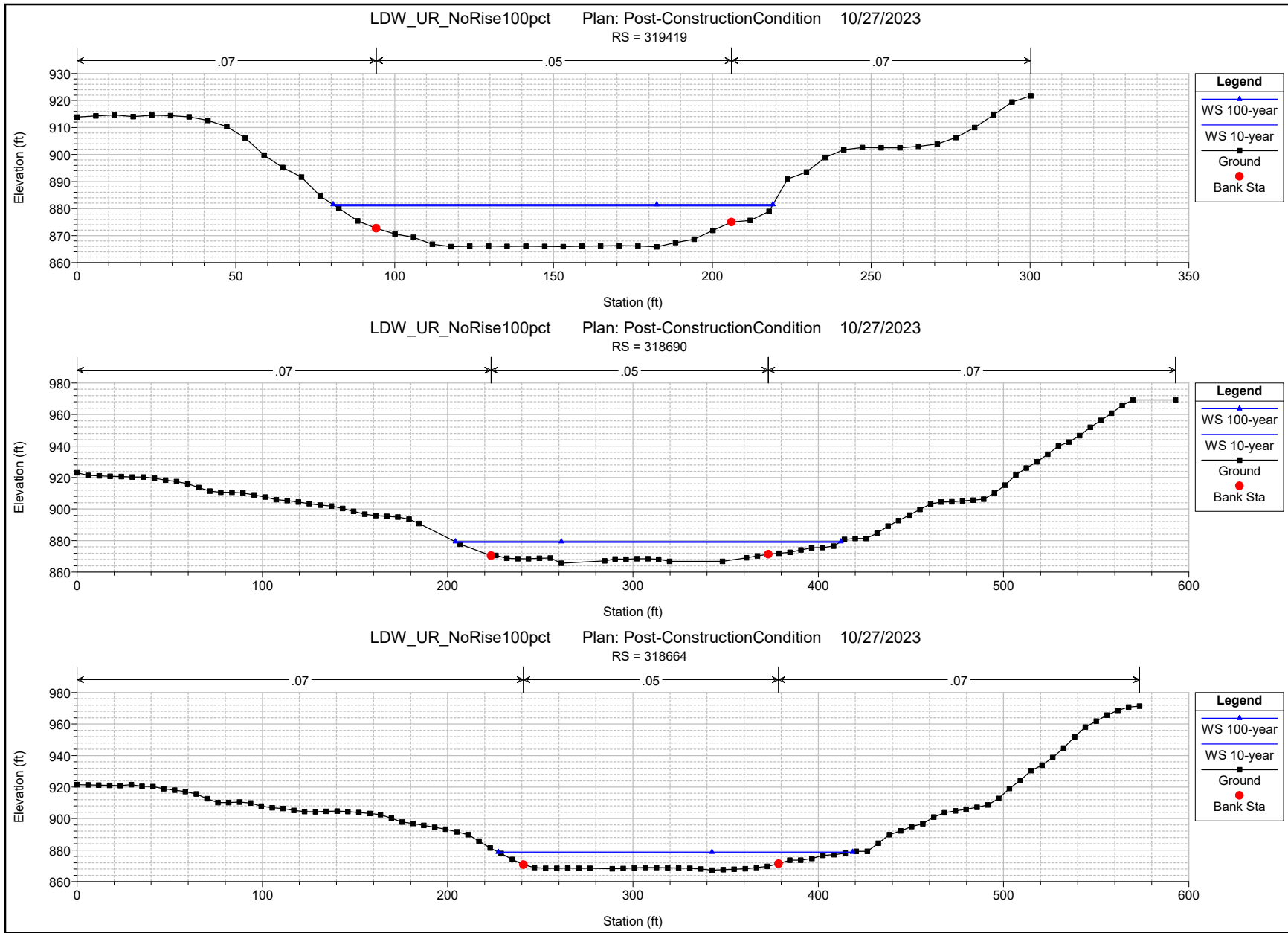


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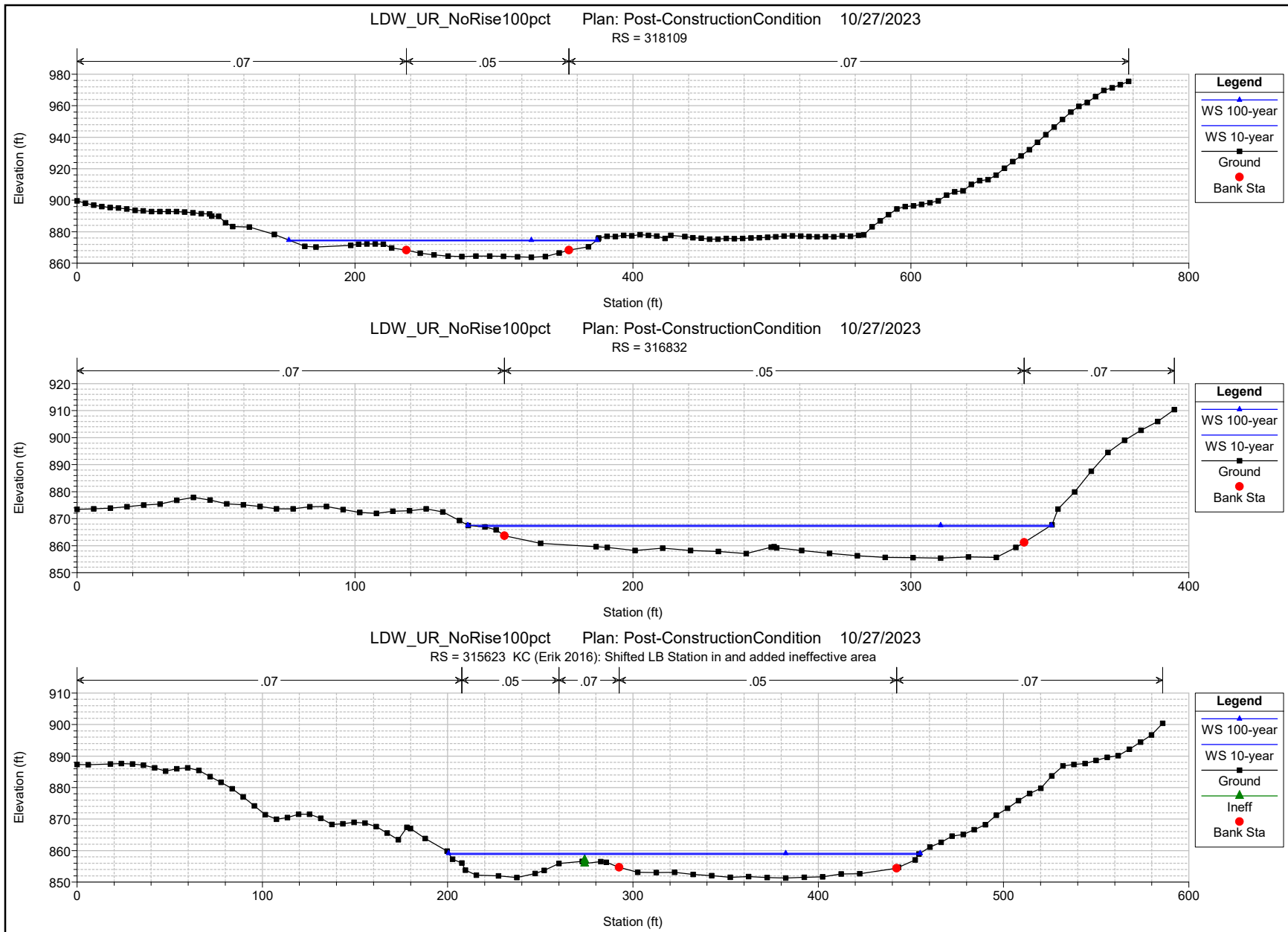


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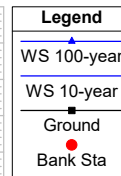
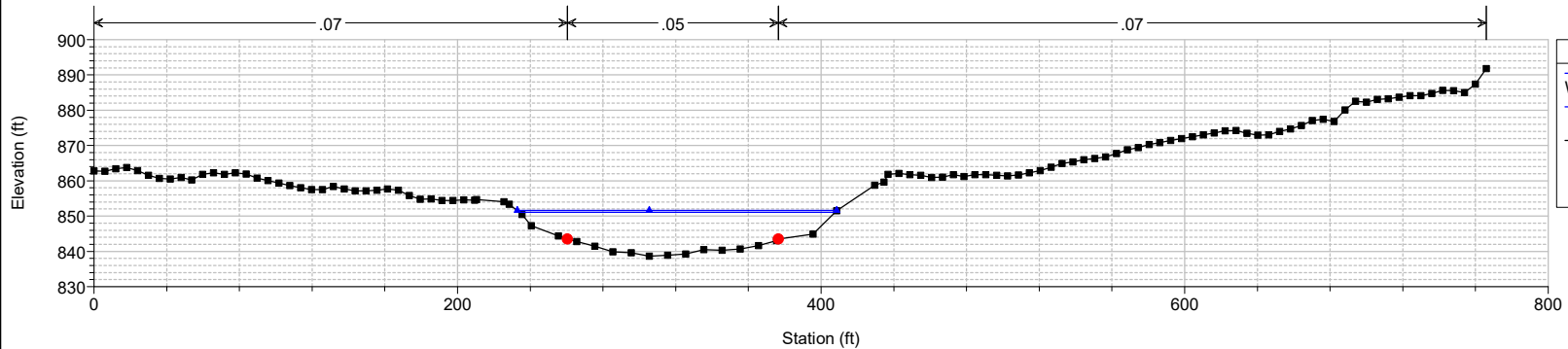




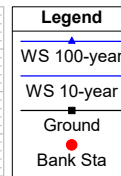
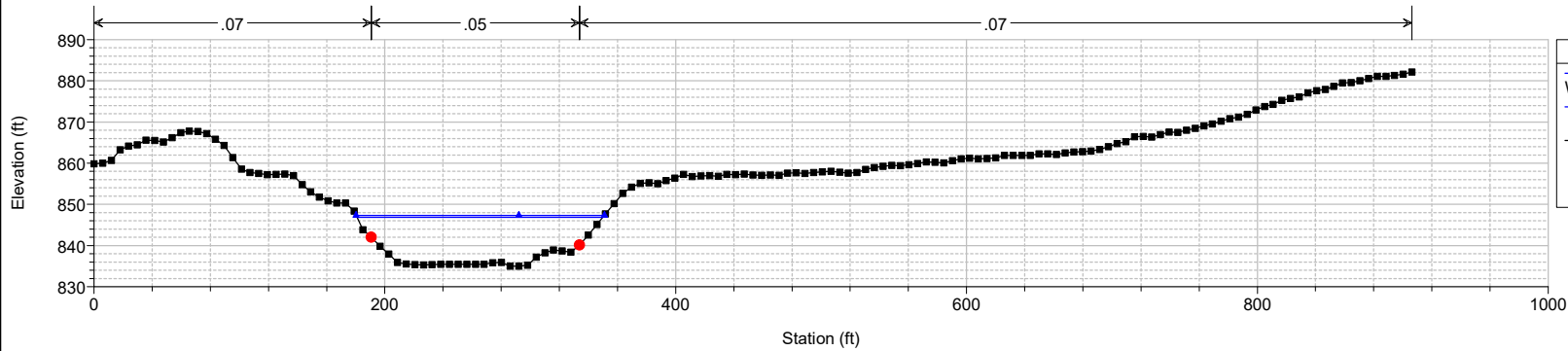




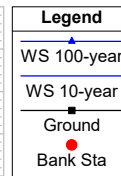
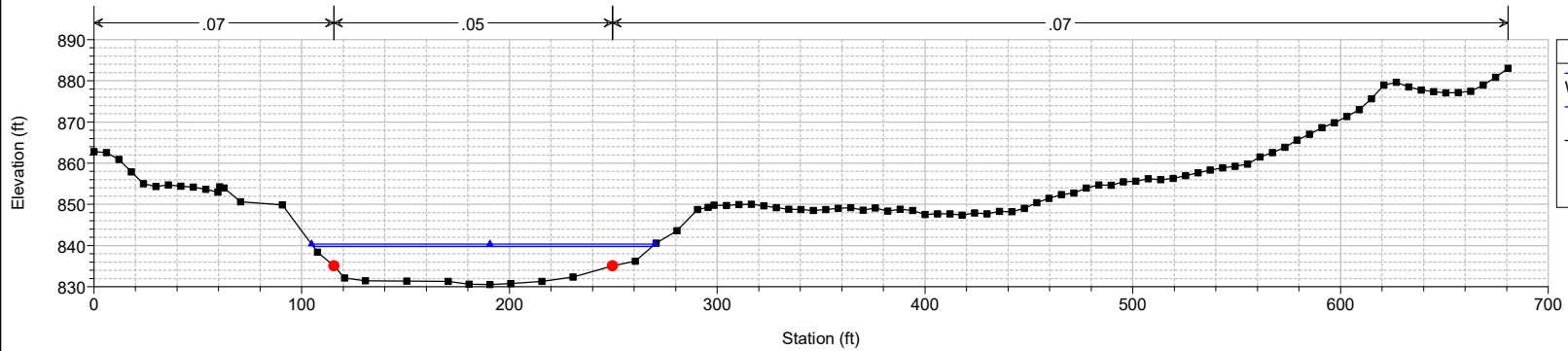
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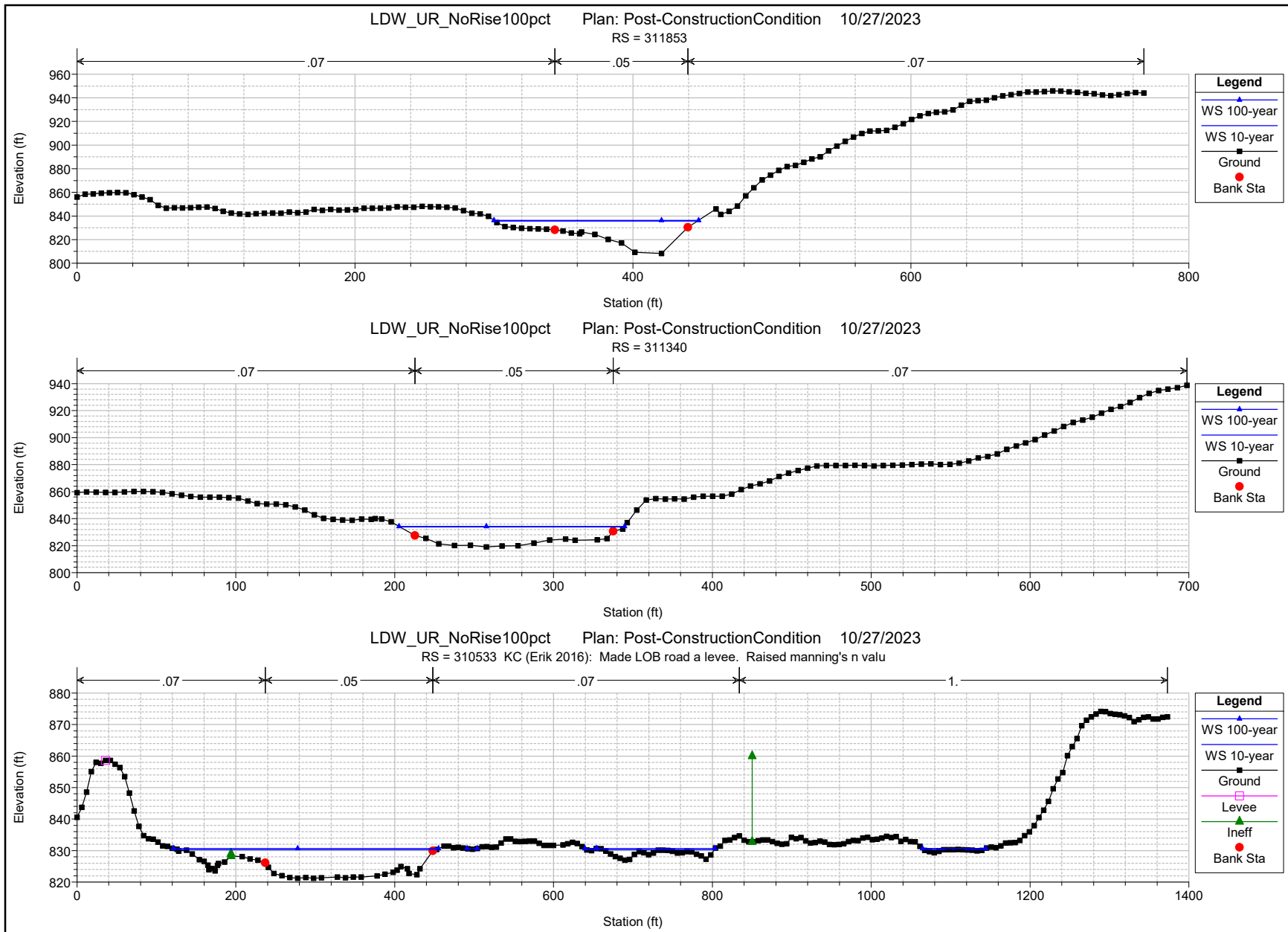


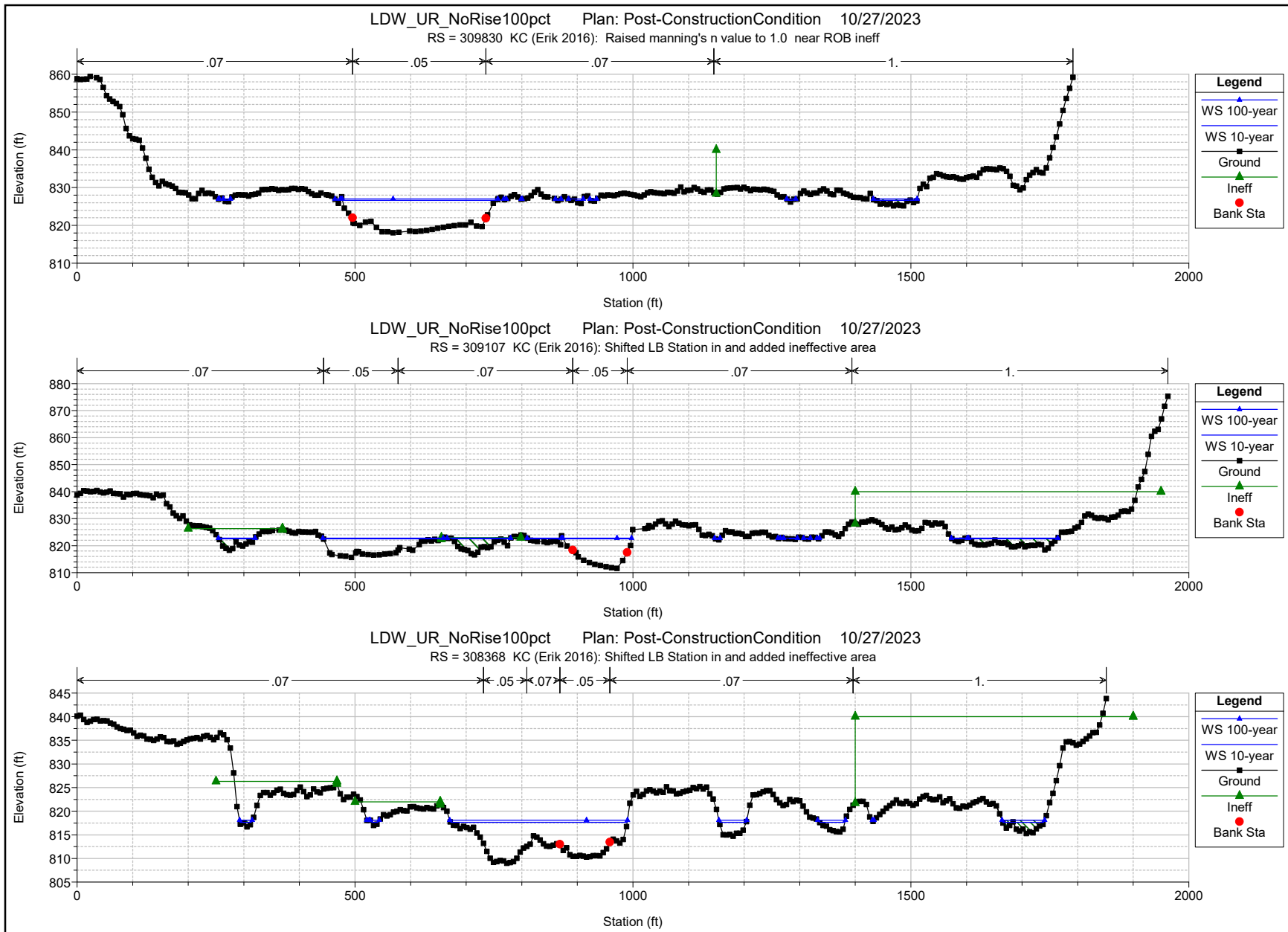
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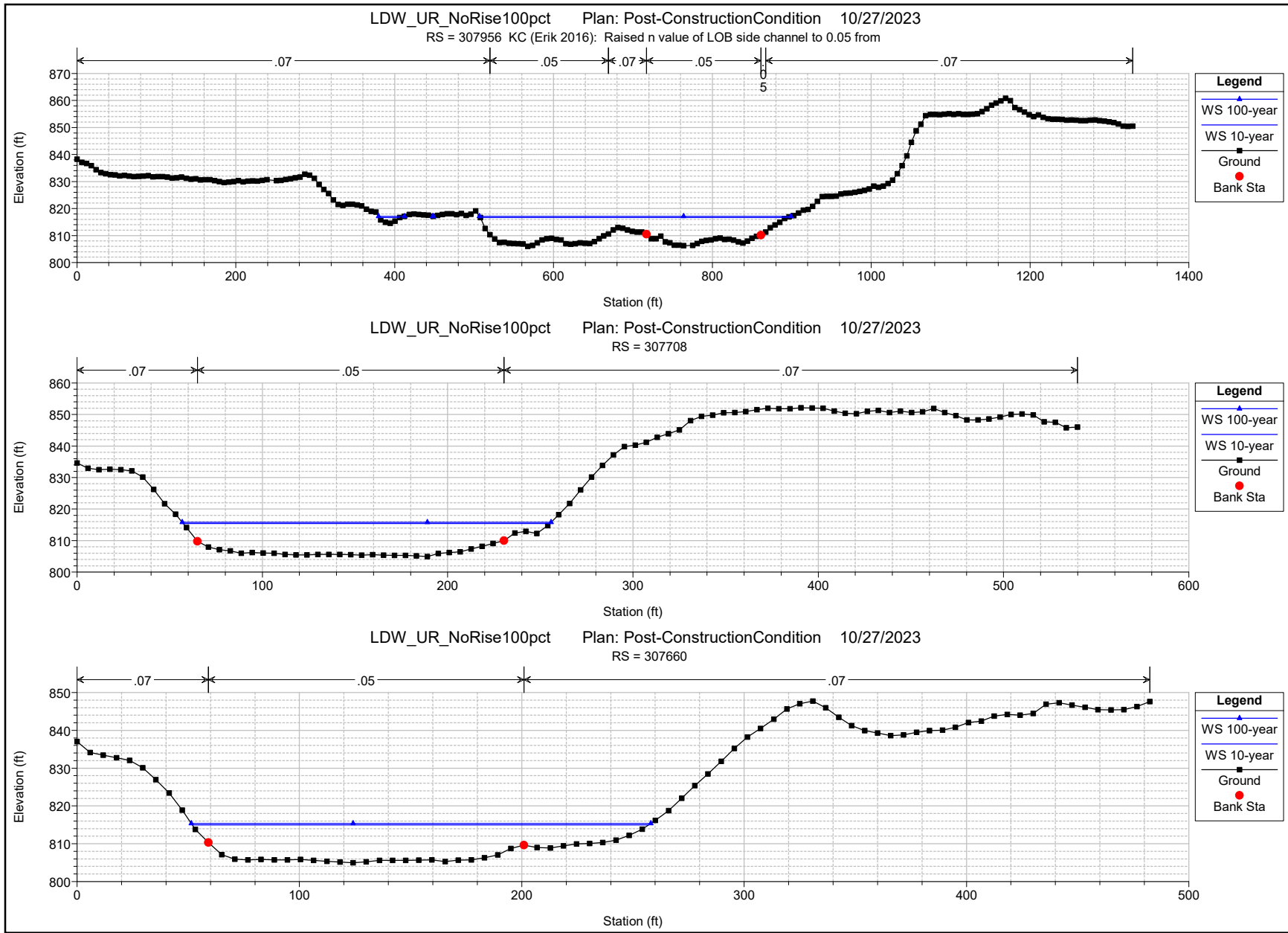


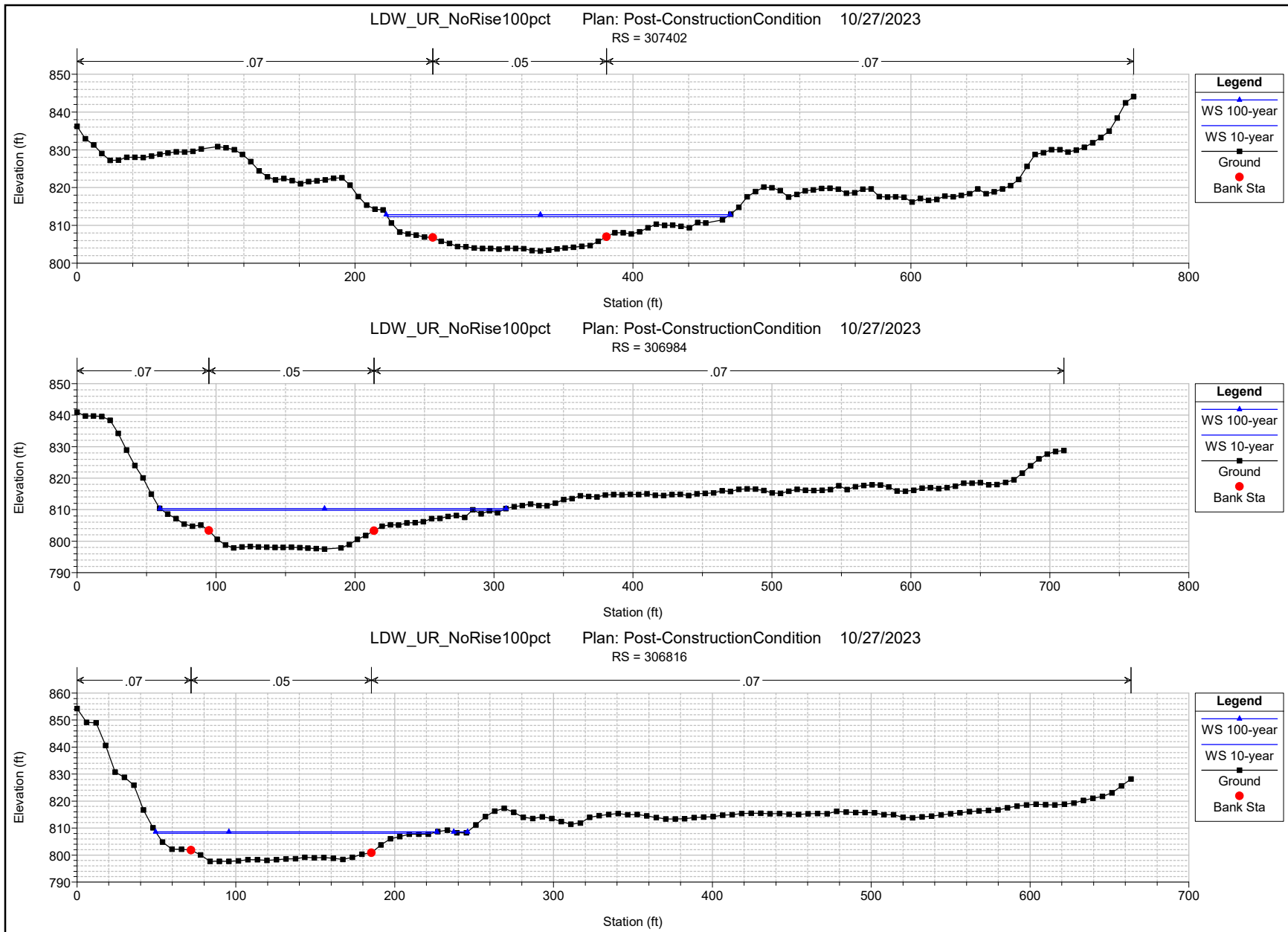
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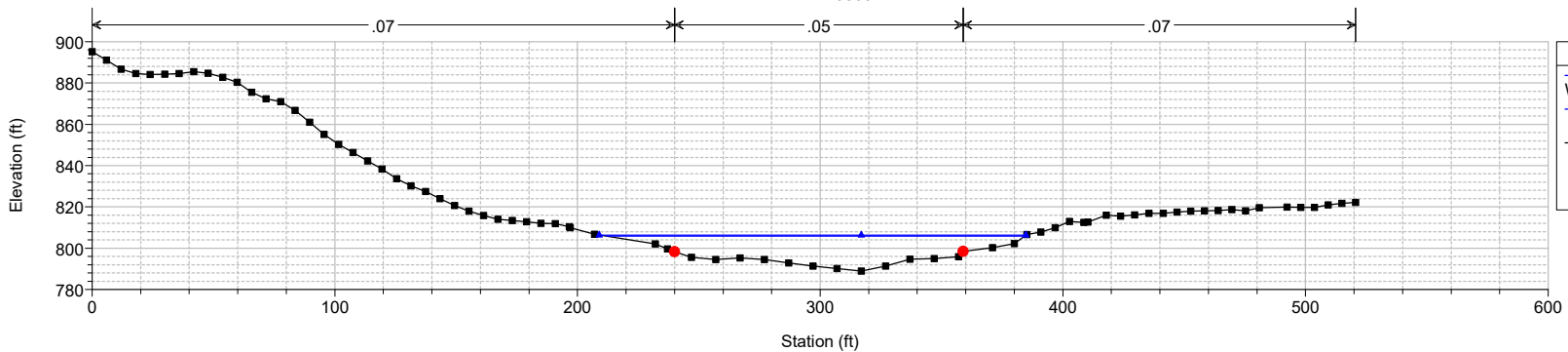




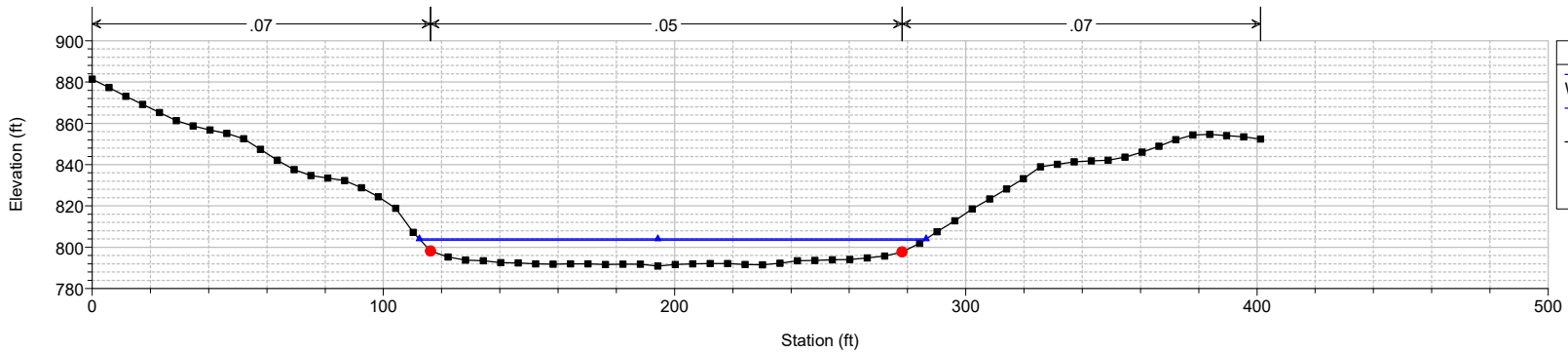




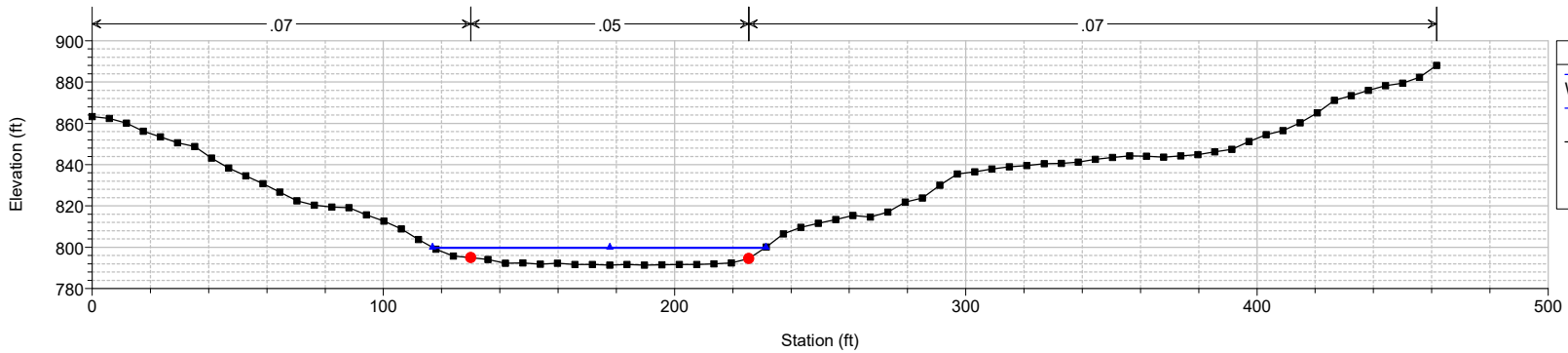
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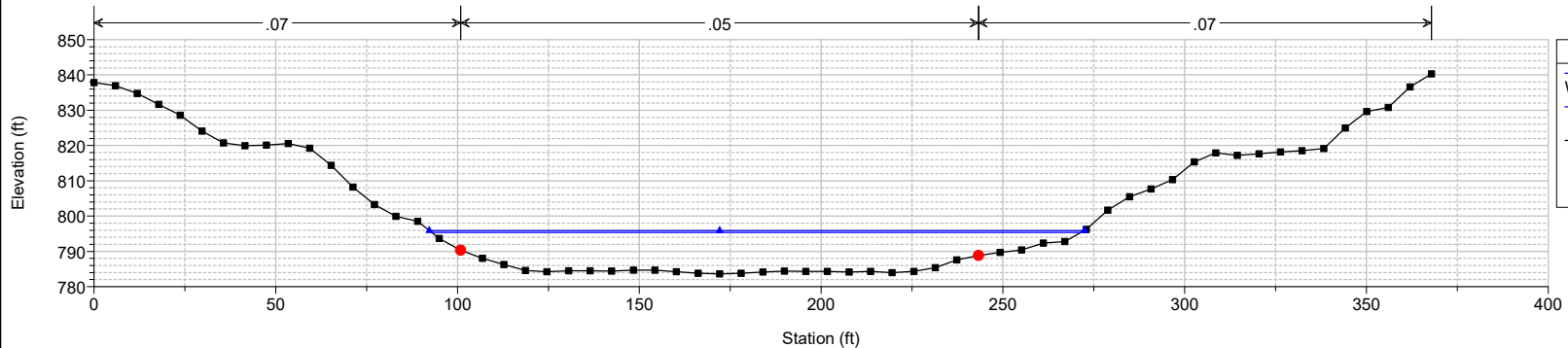
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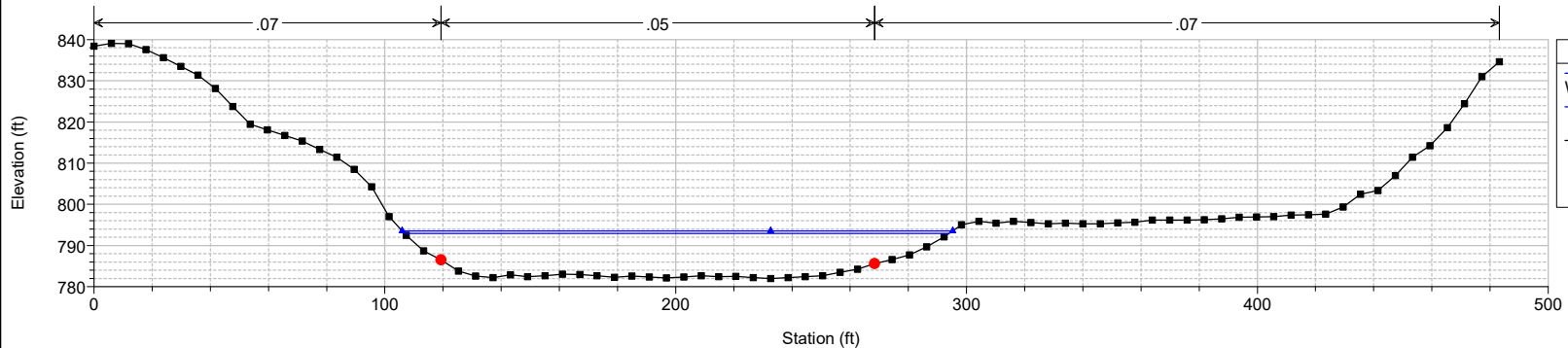
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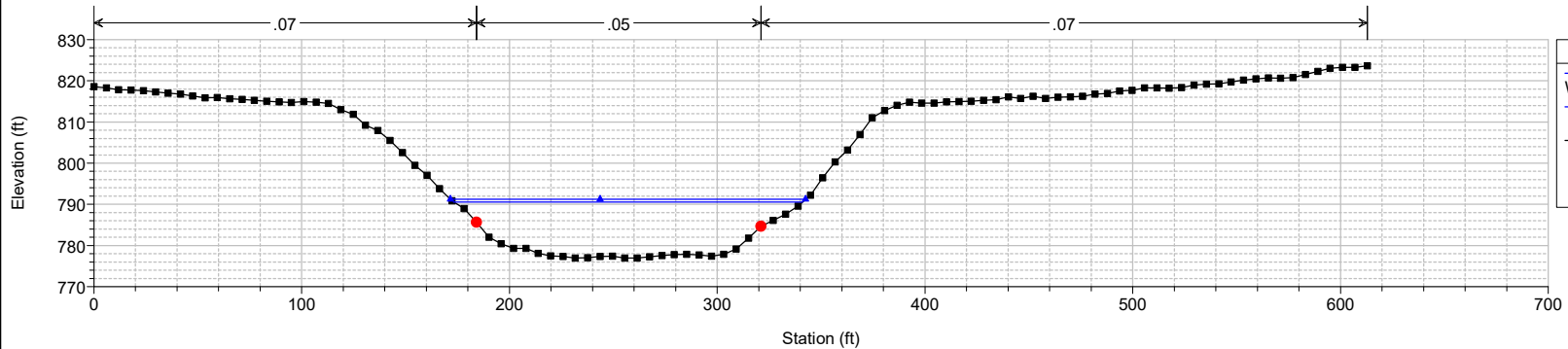
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LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
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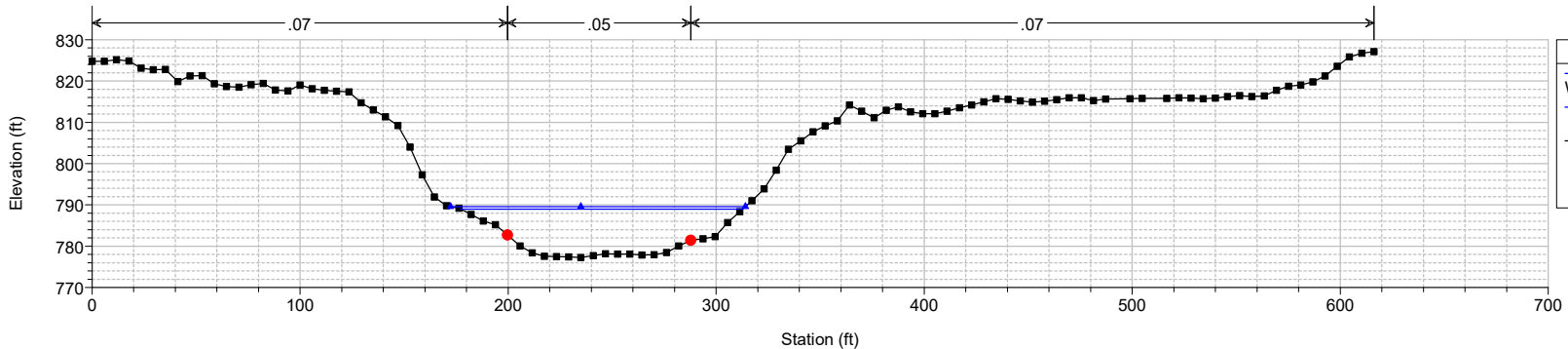


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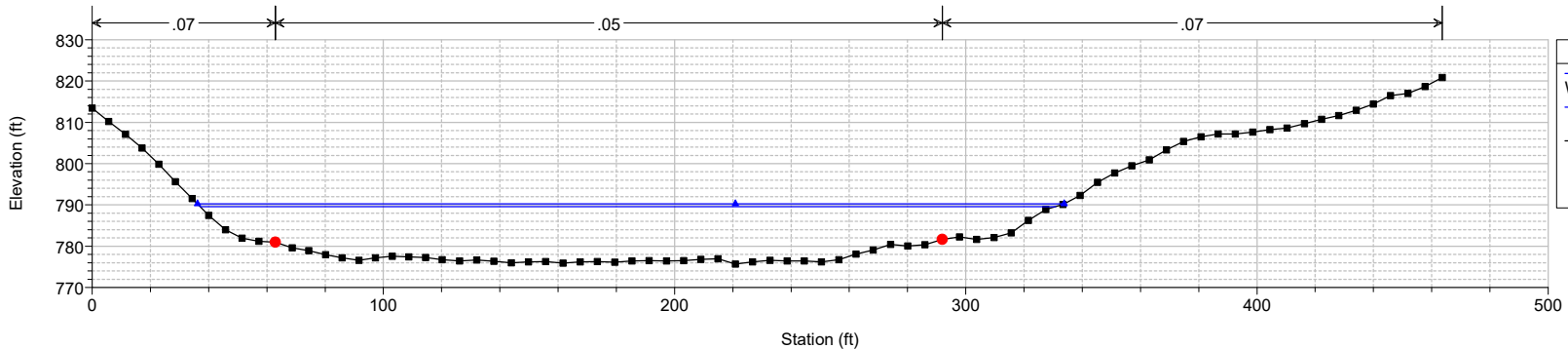




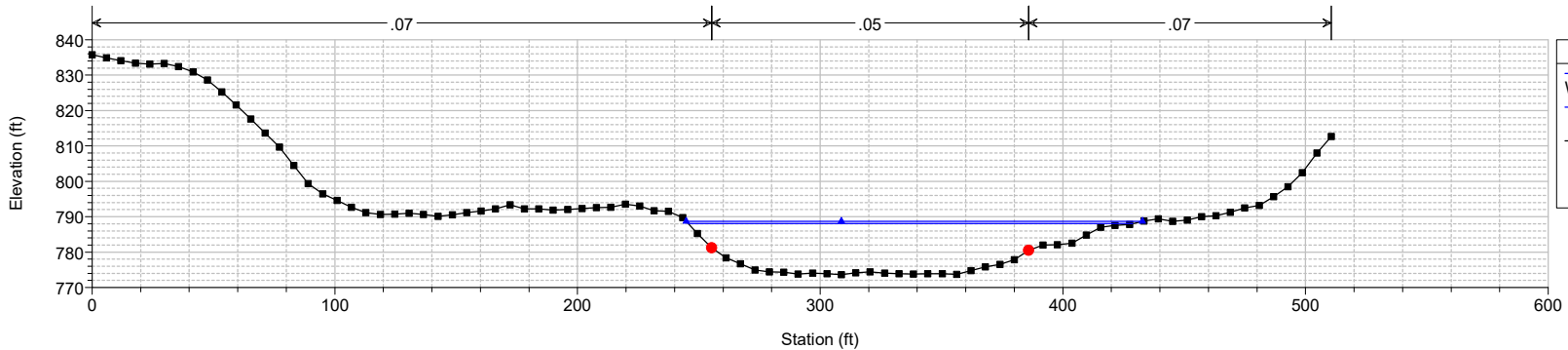
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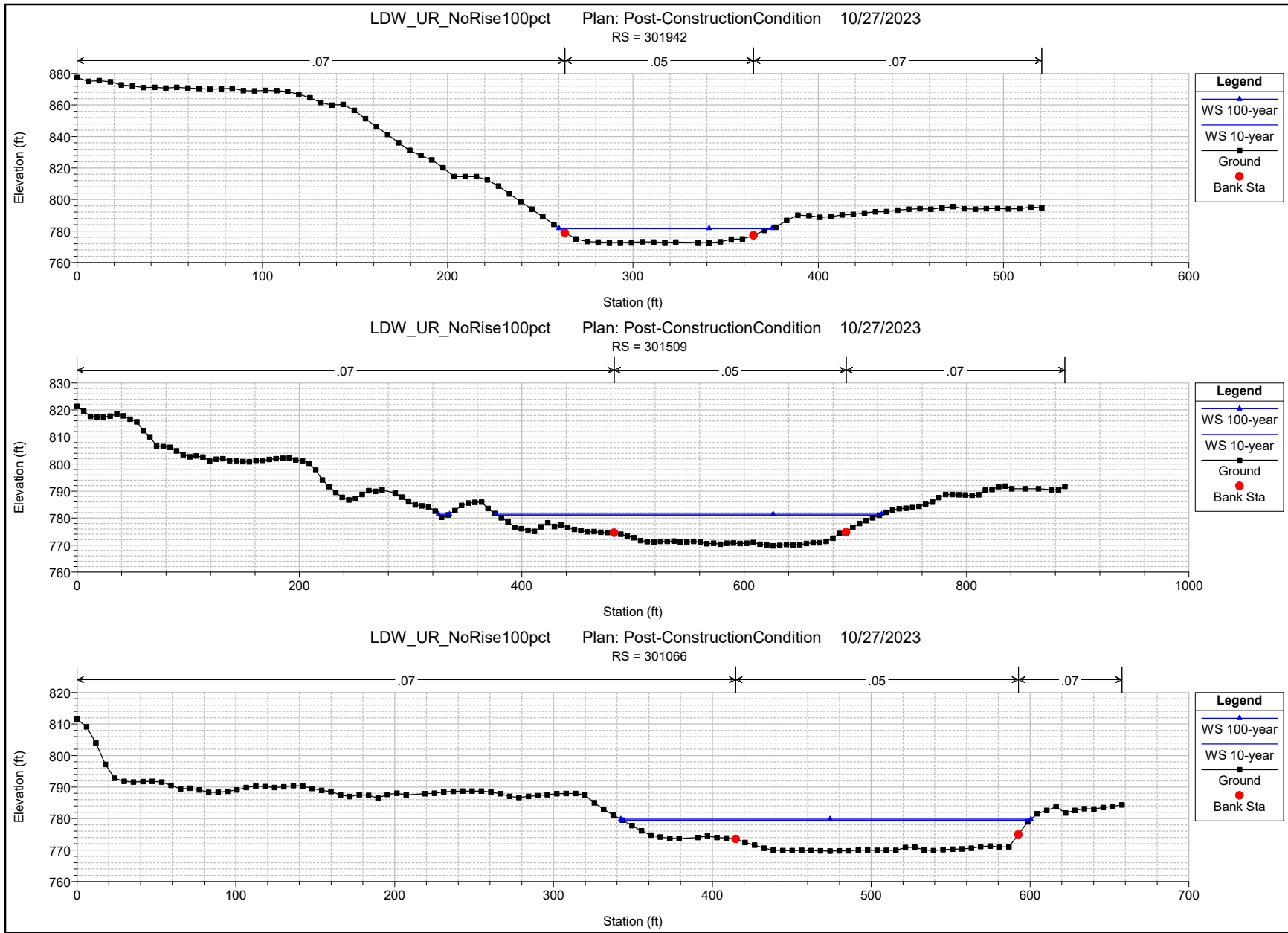


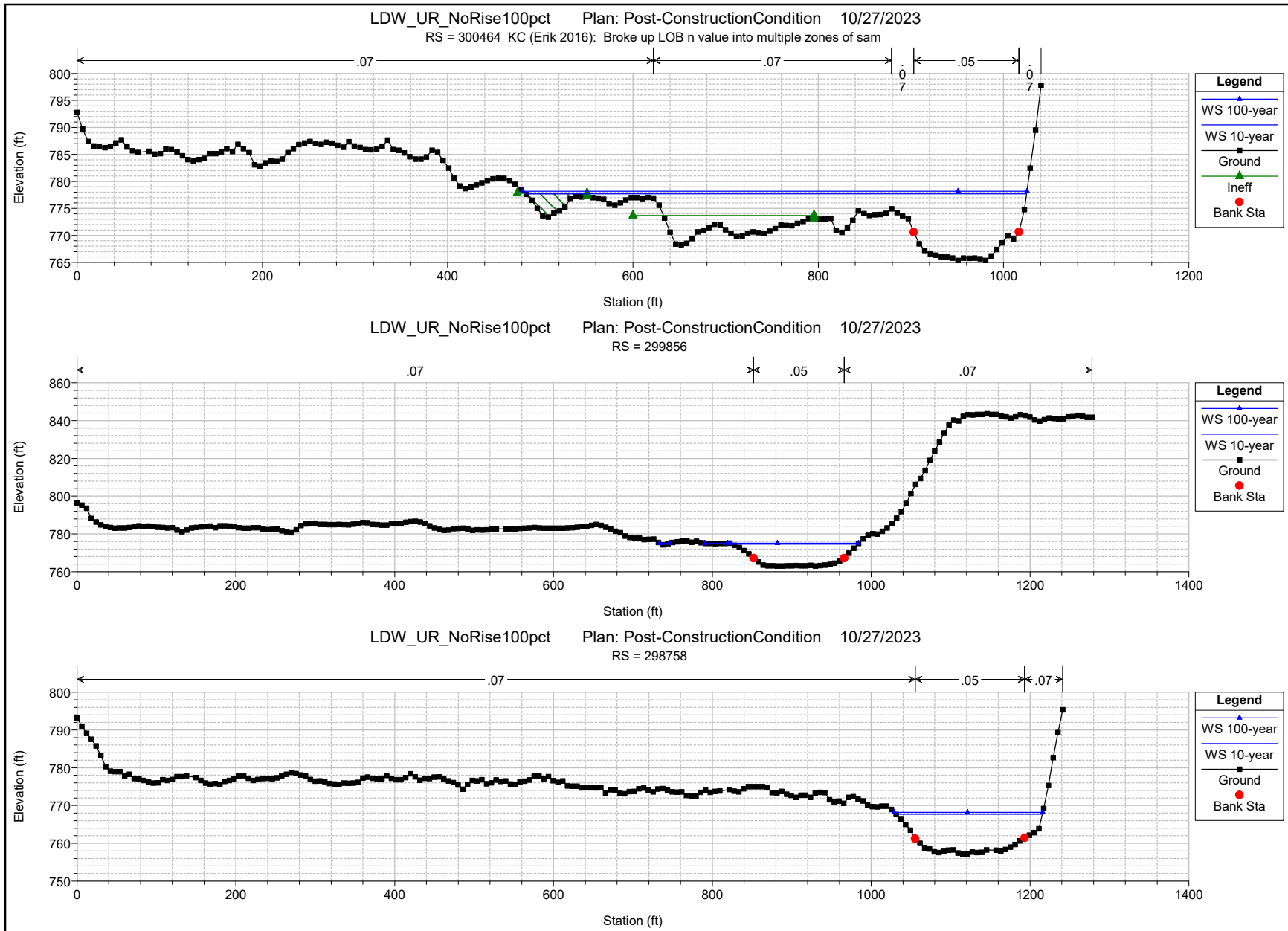
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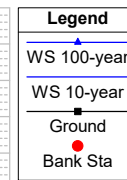
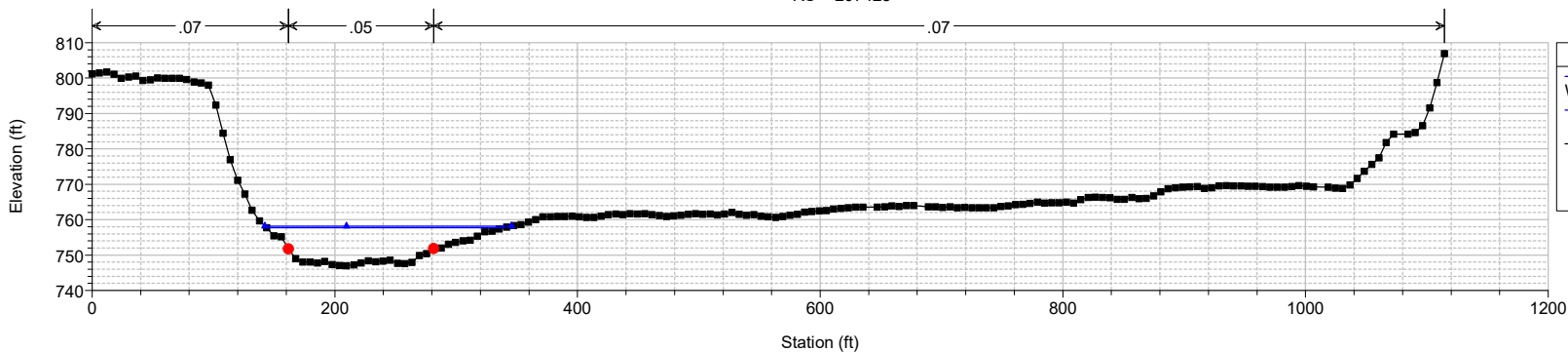
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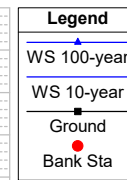
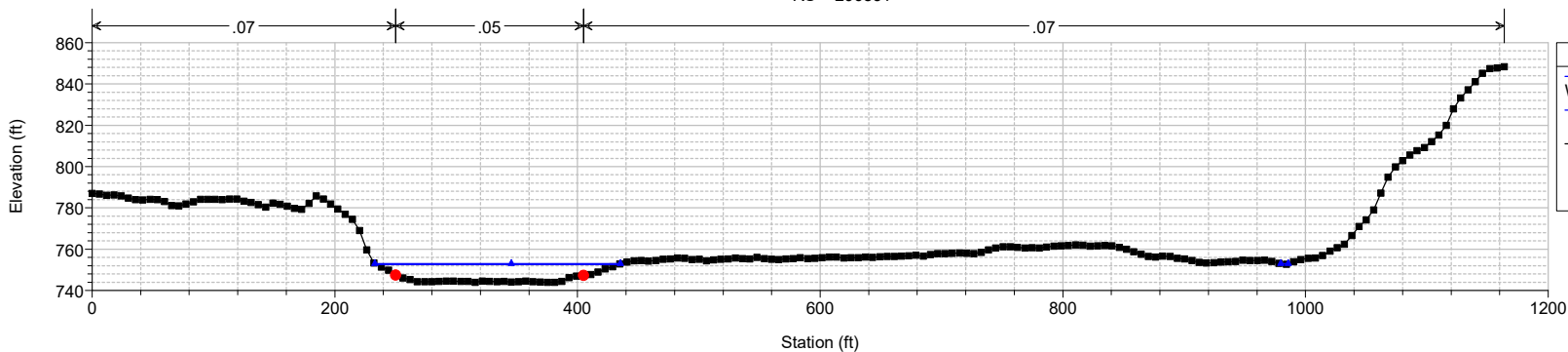




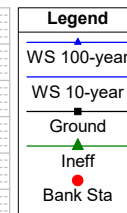
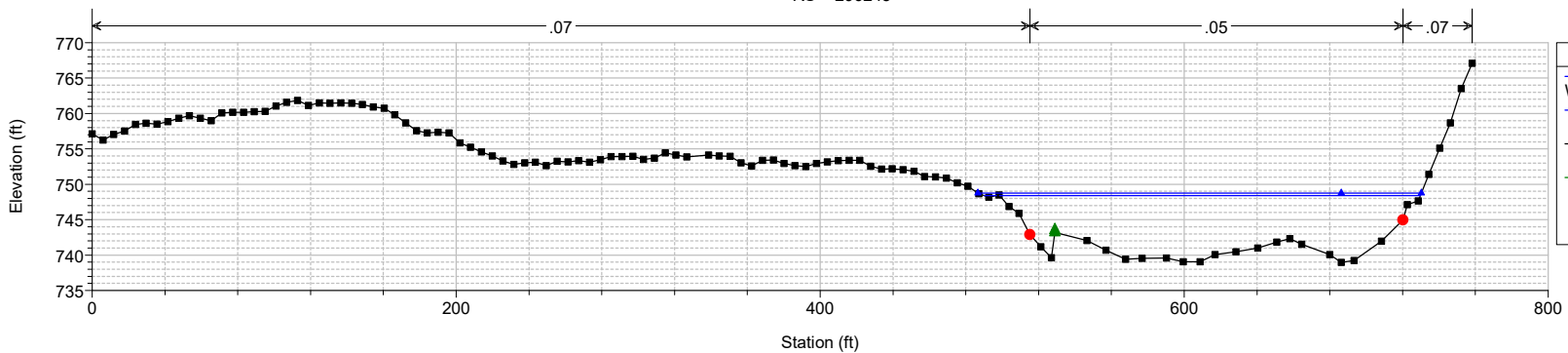
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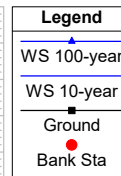
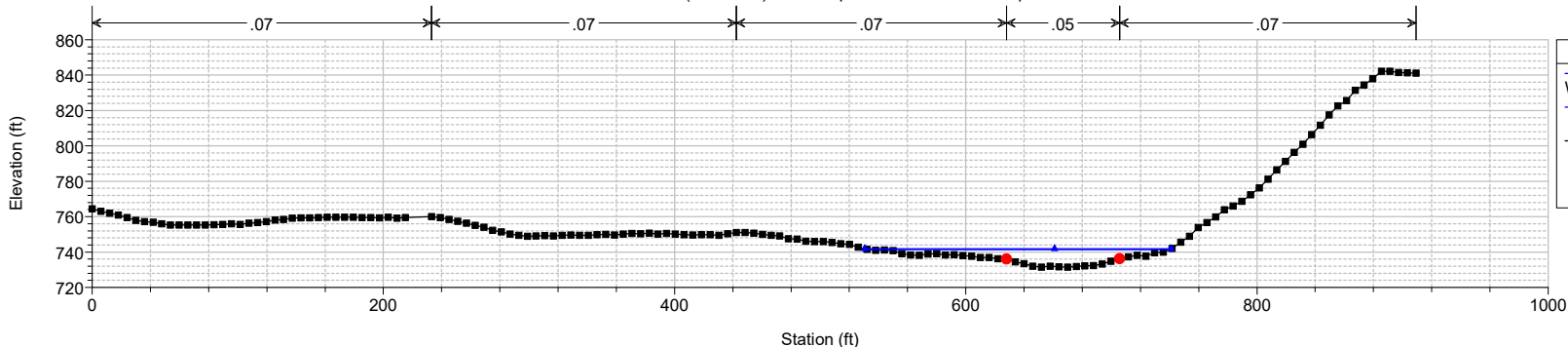
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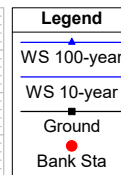
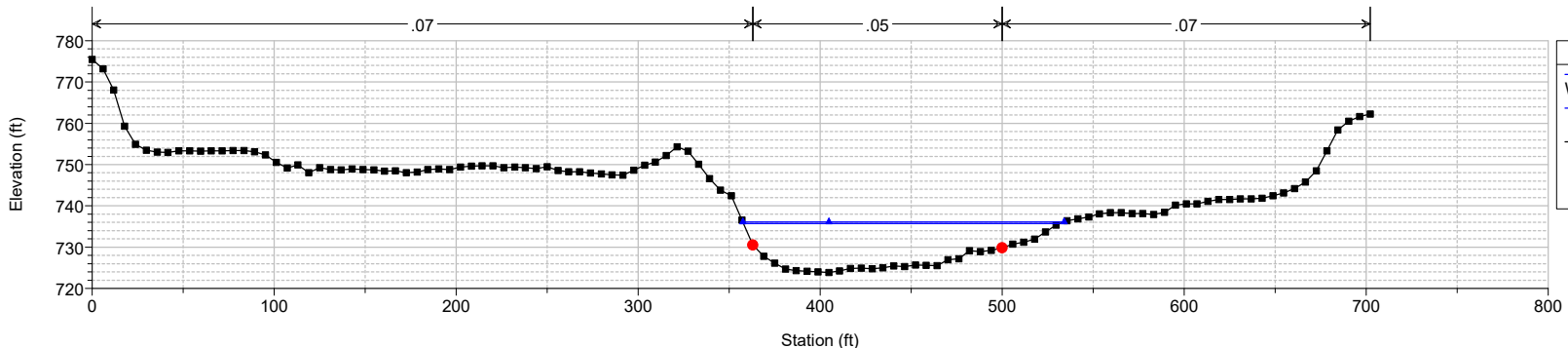
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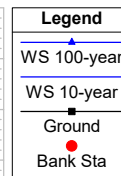
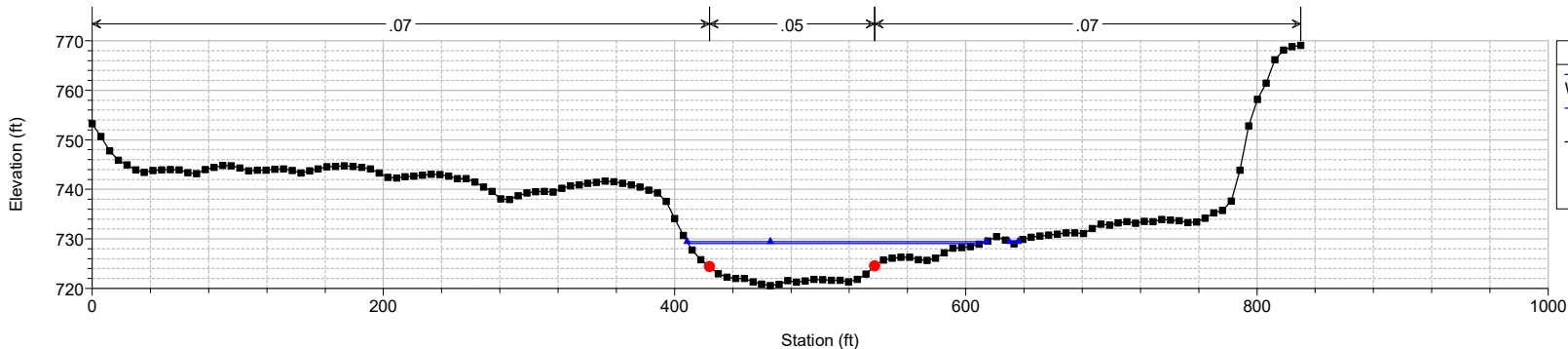
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 RS = 295786 KC (Erik 2016): Broke up LOB n value into multiple zones of sam

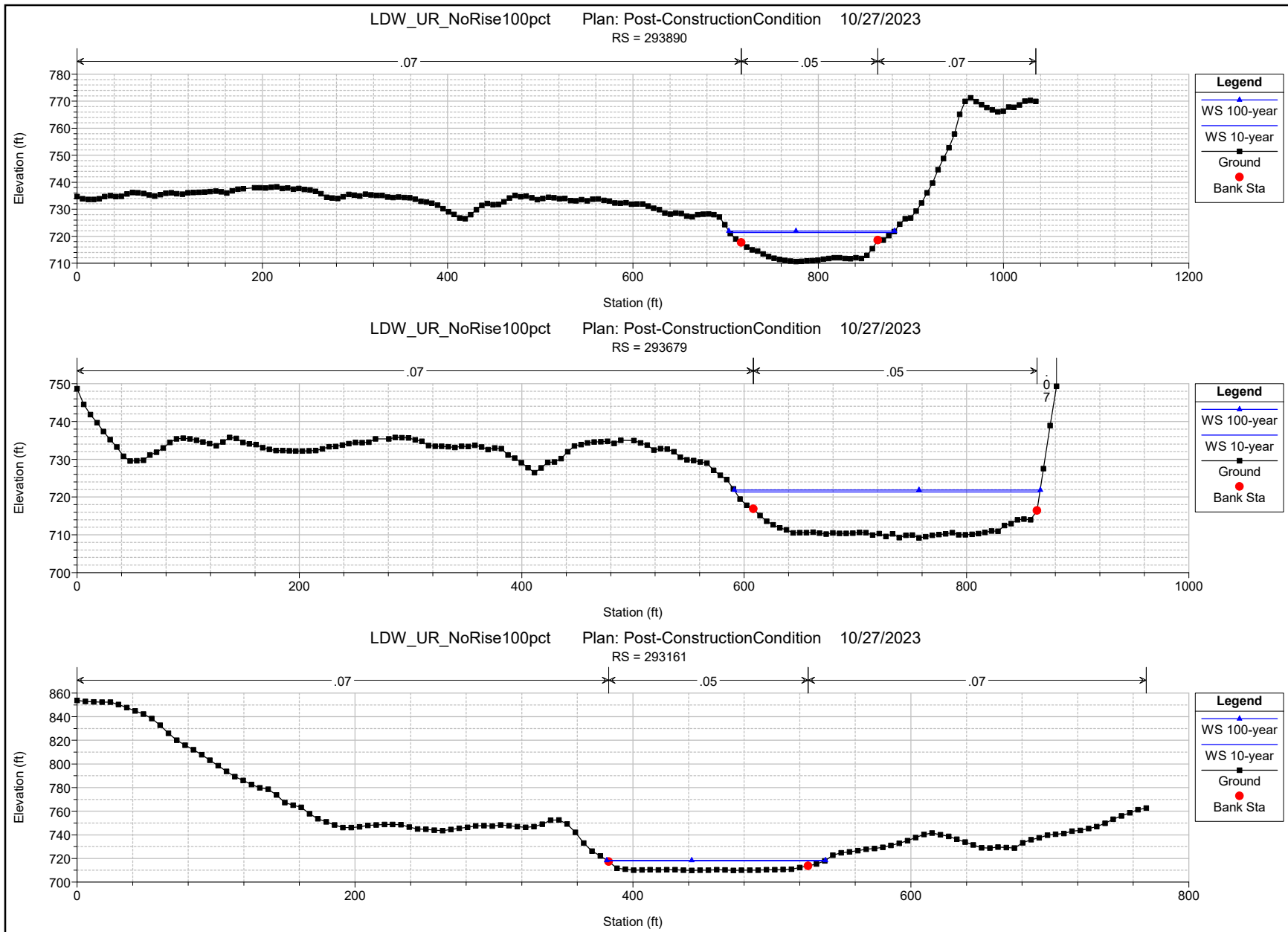


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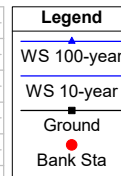
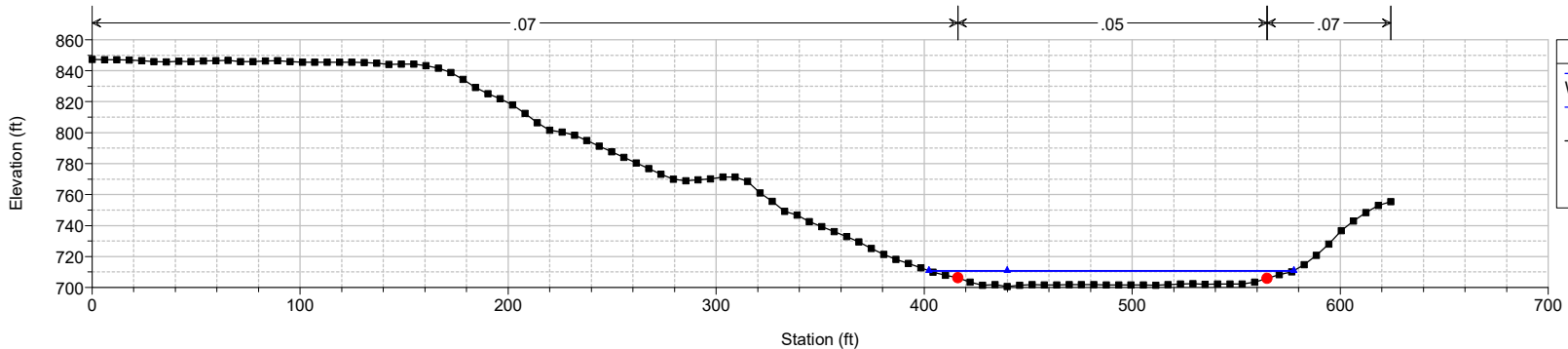


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
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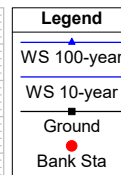
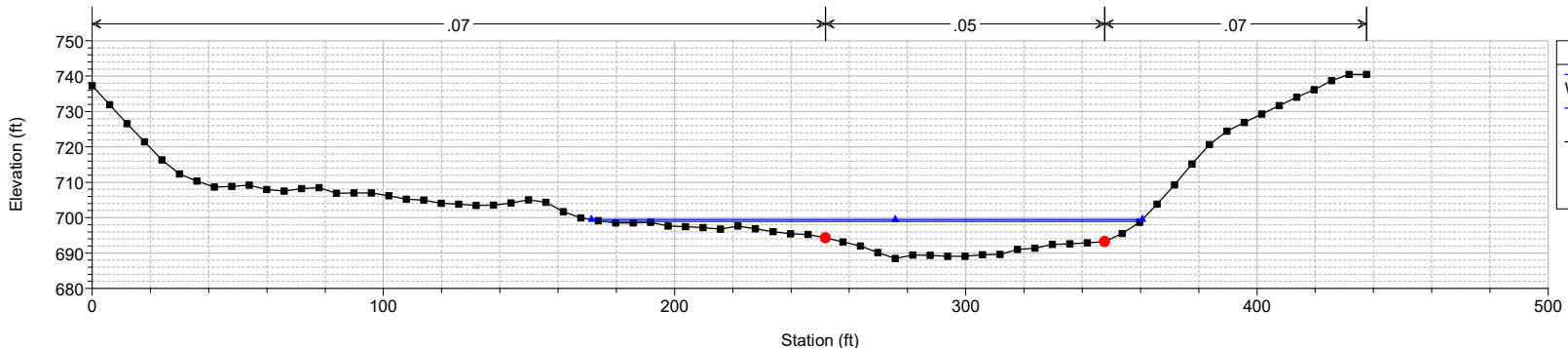




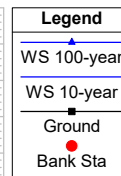
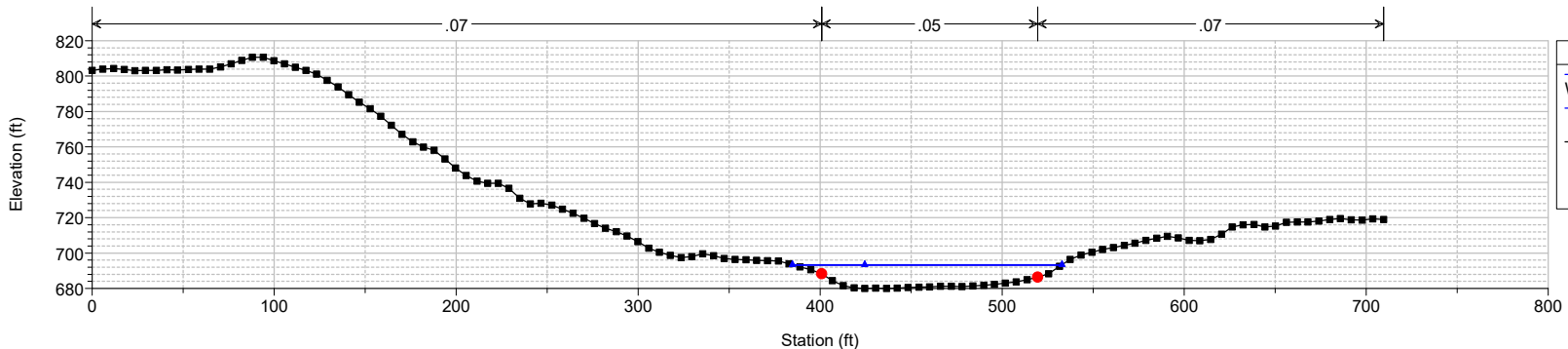
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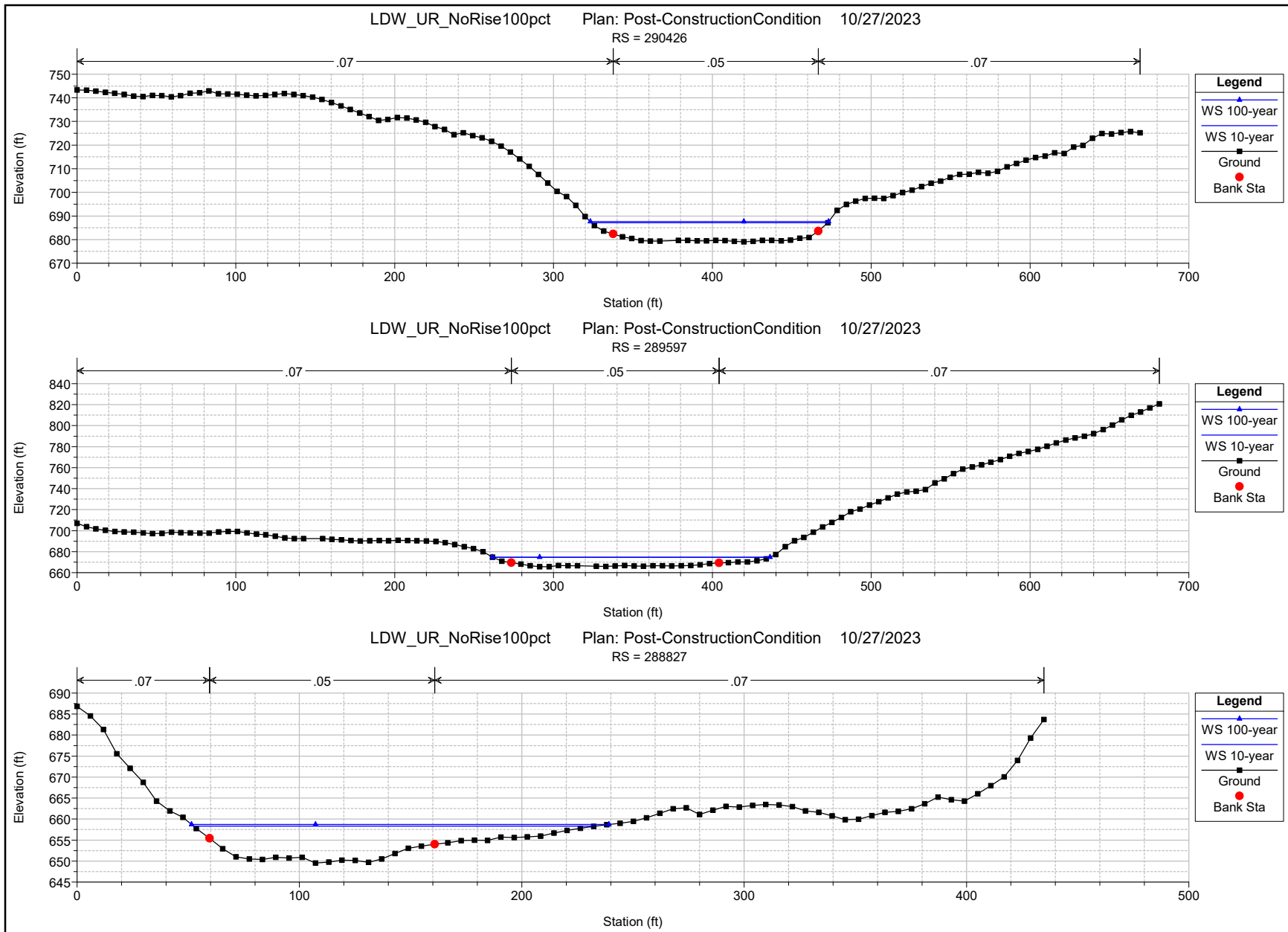


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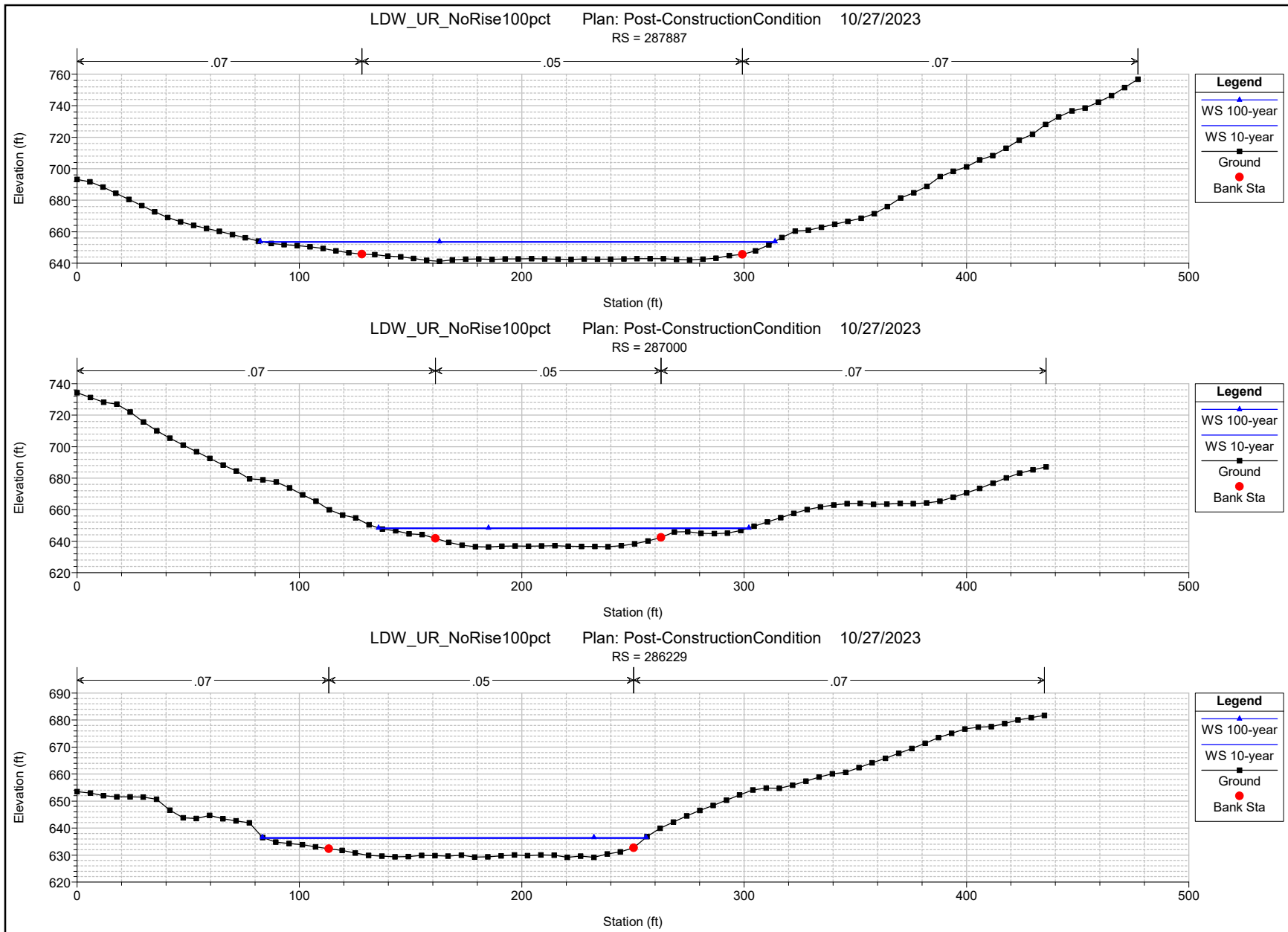


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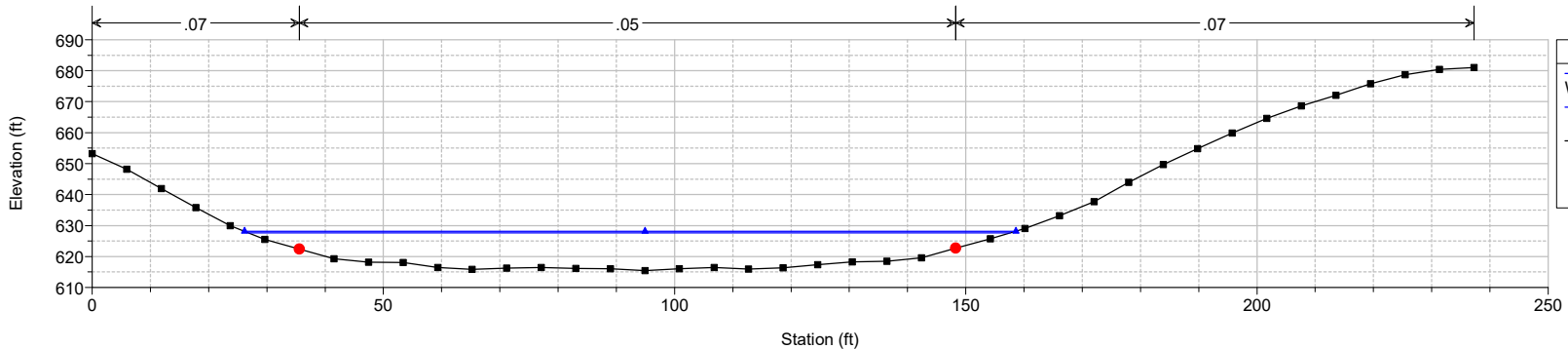




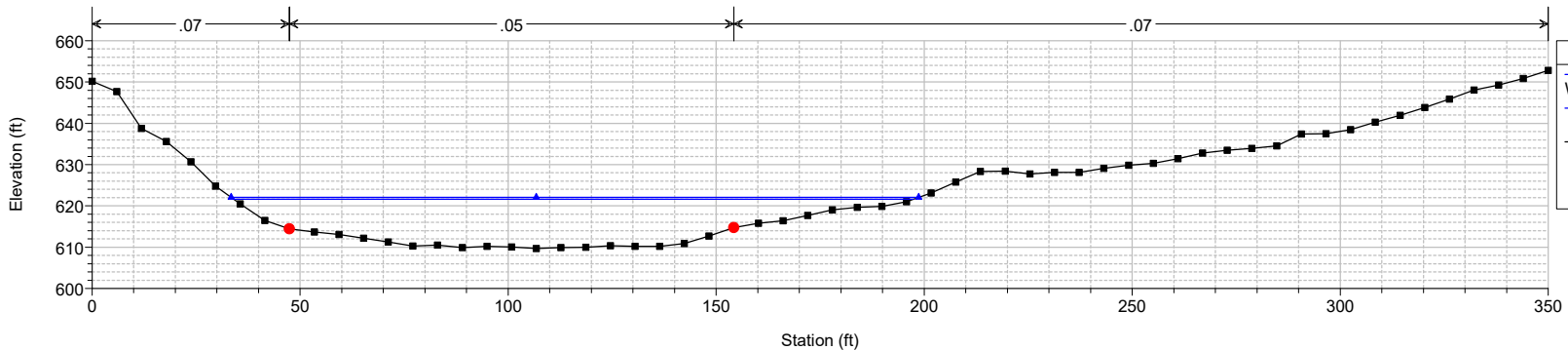




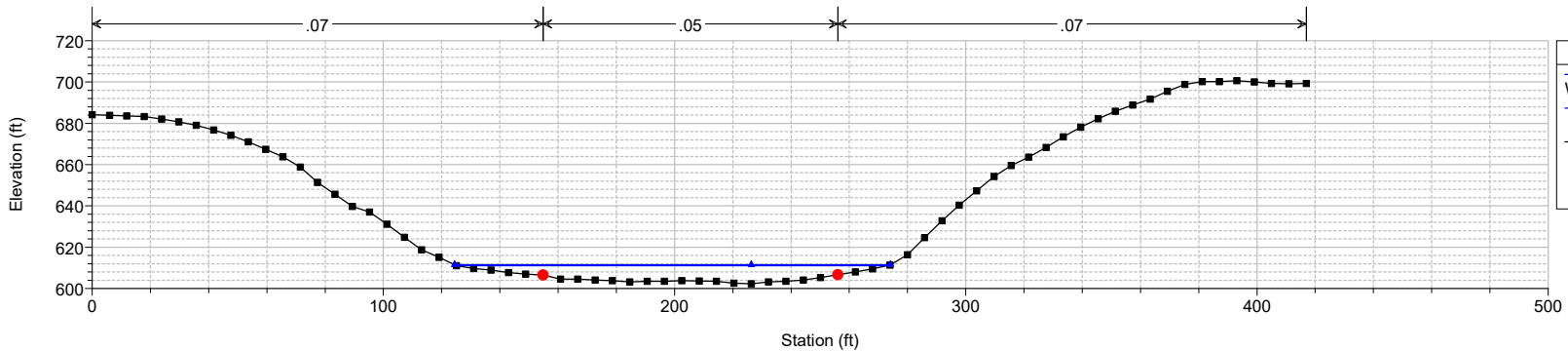
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RS = 285532

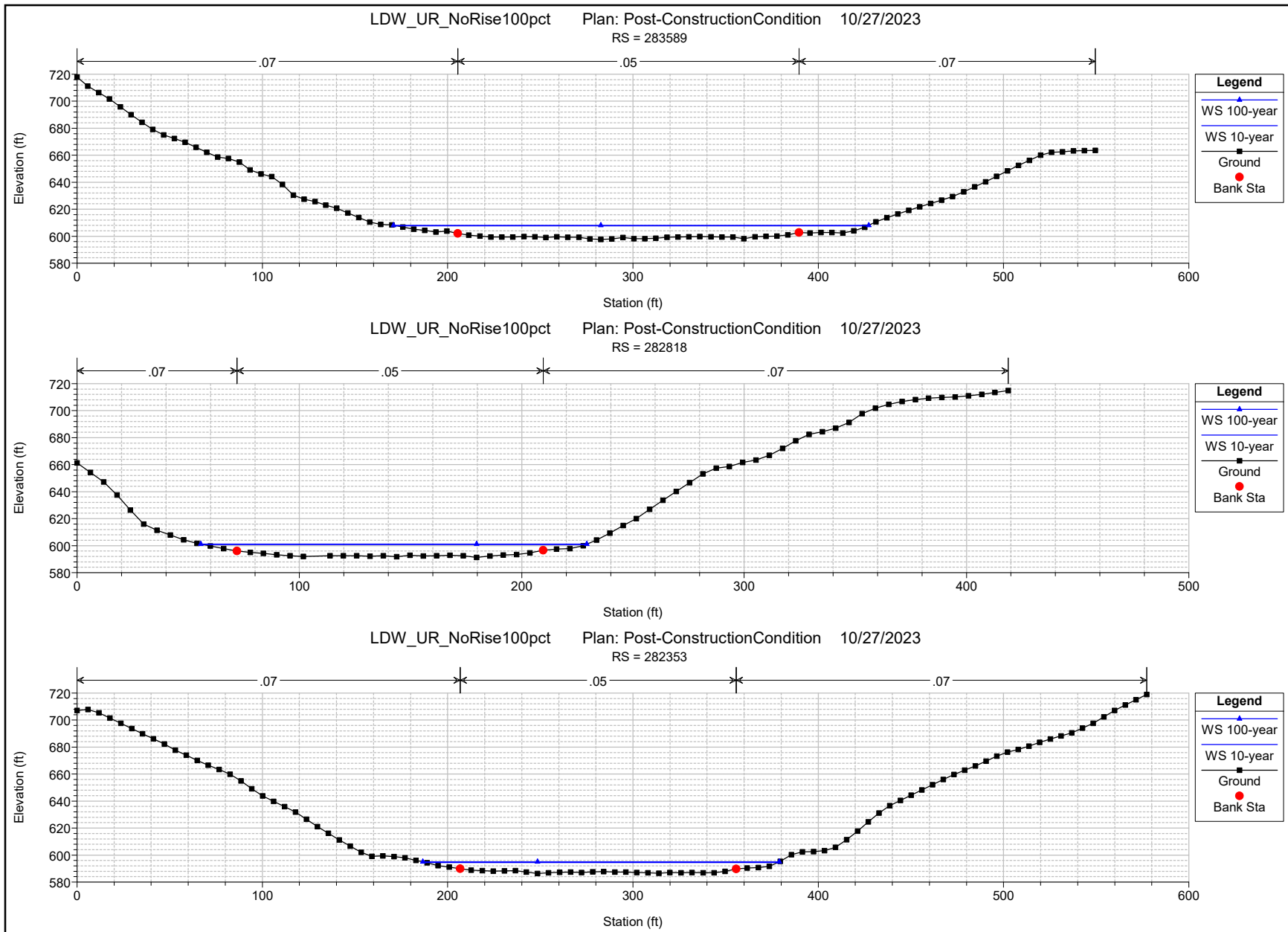


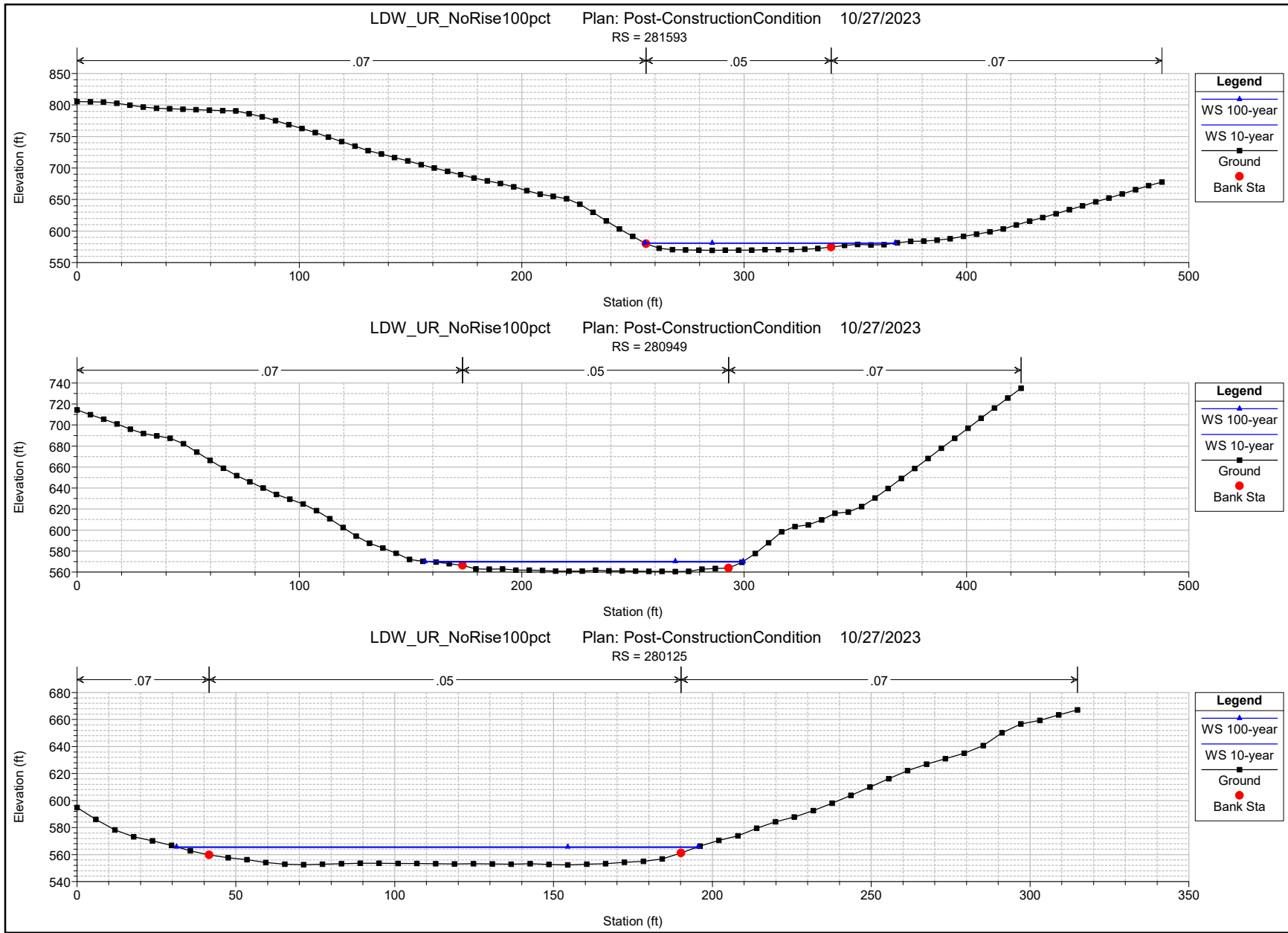
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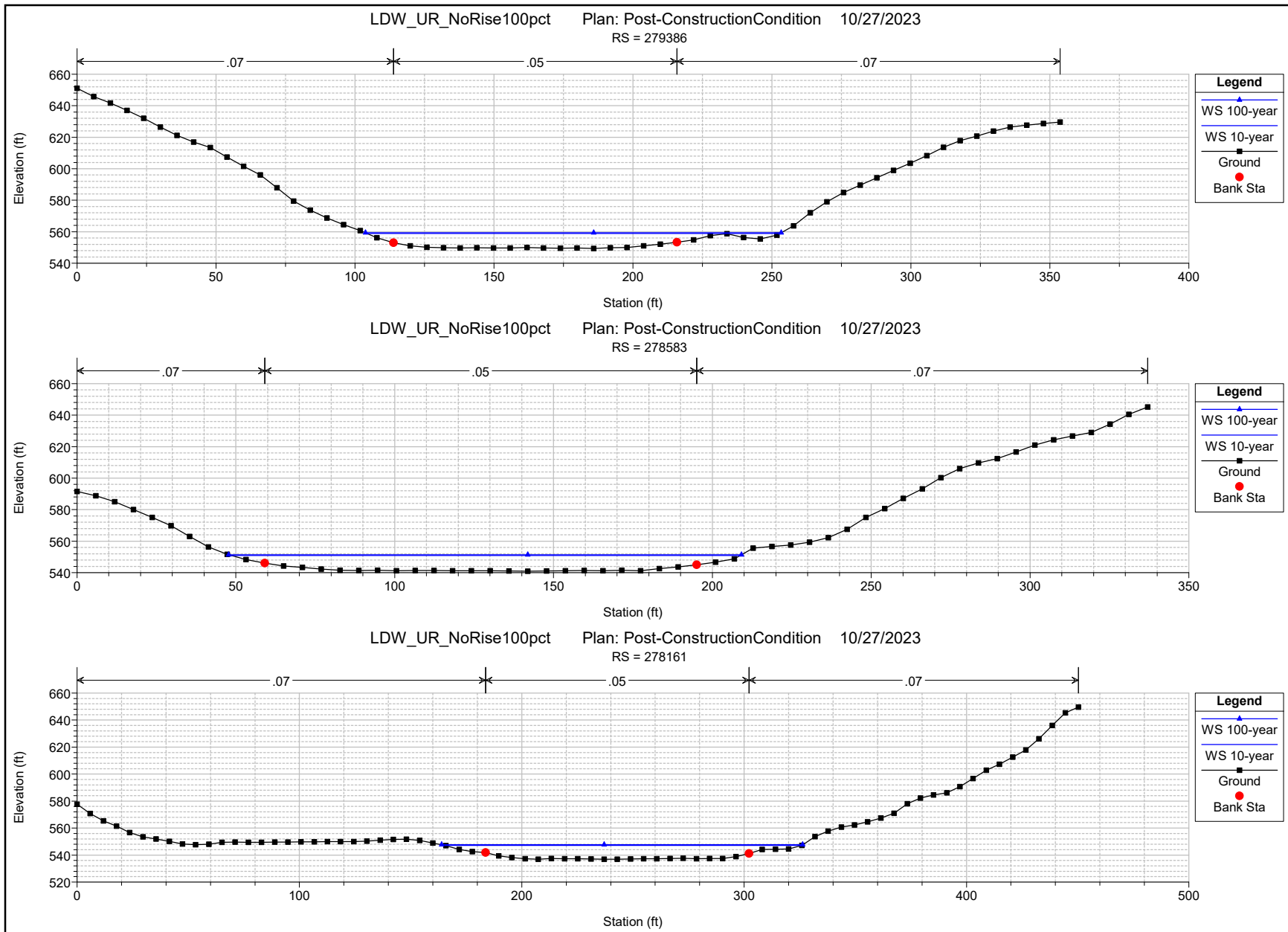


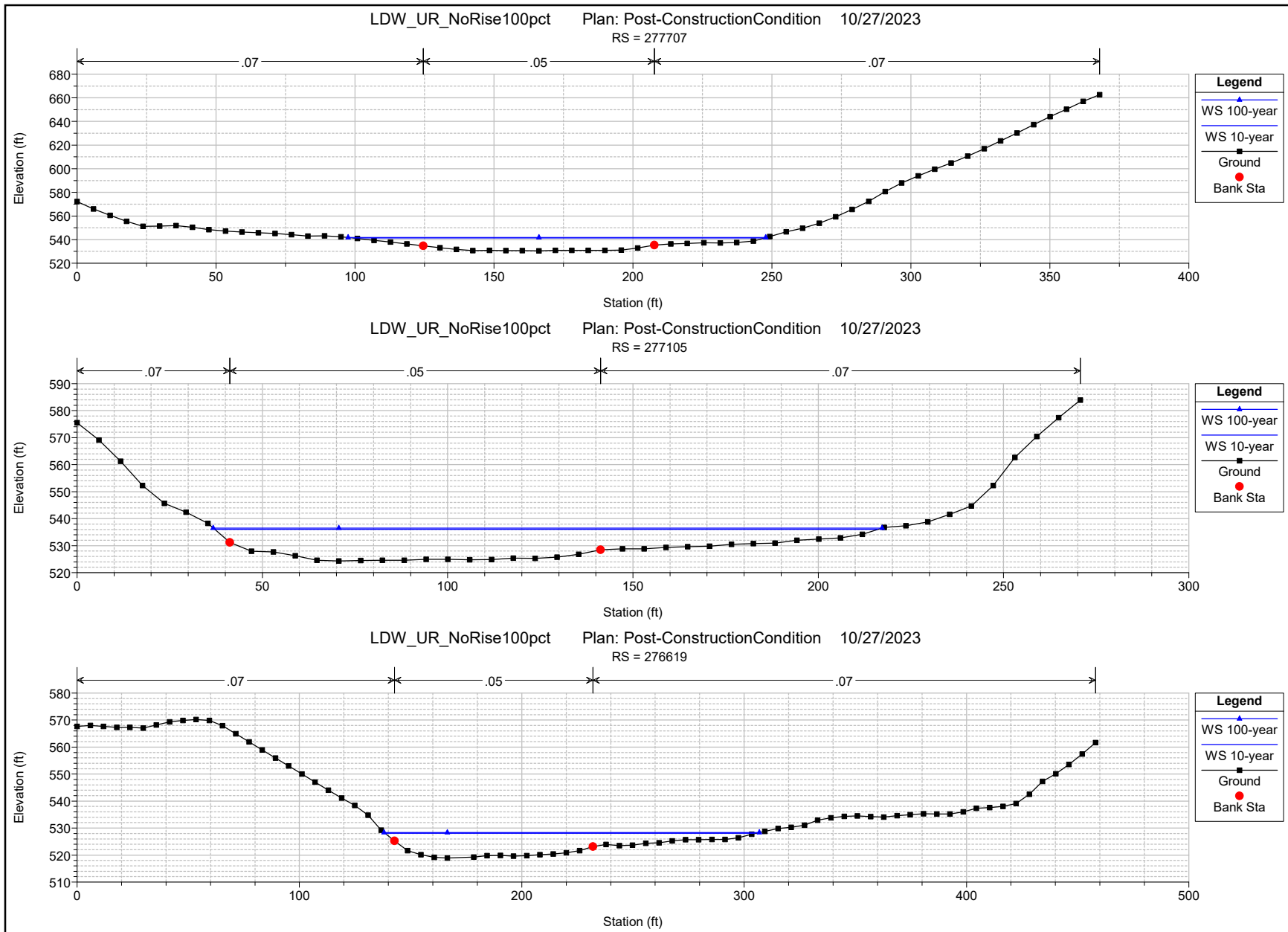
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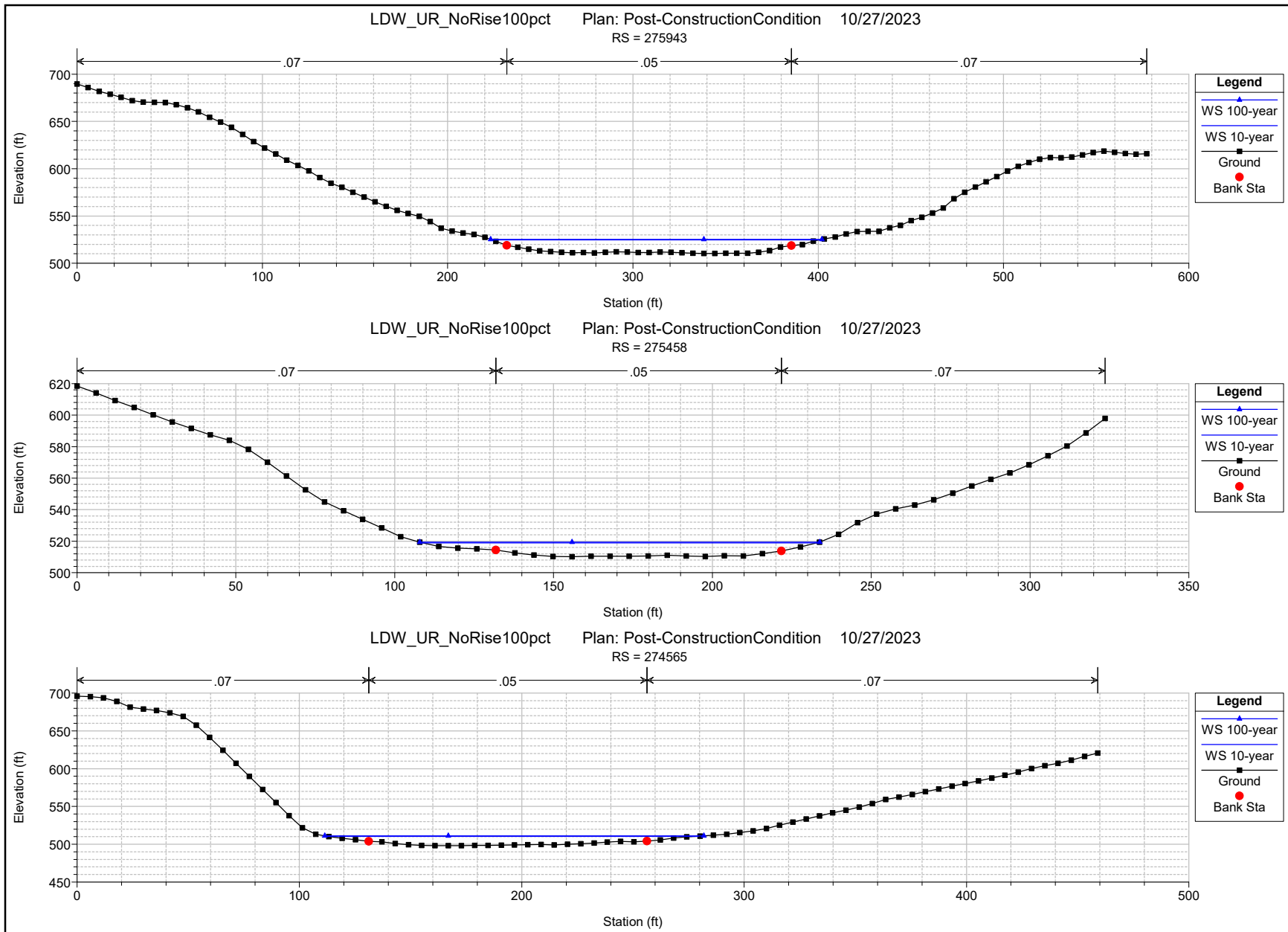


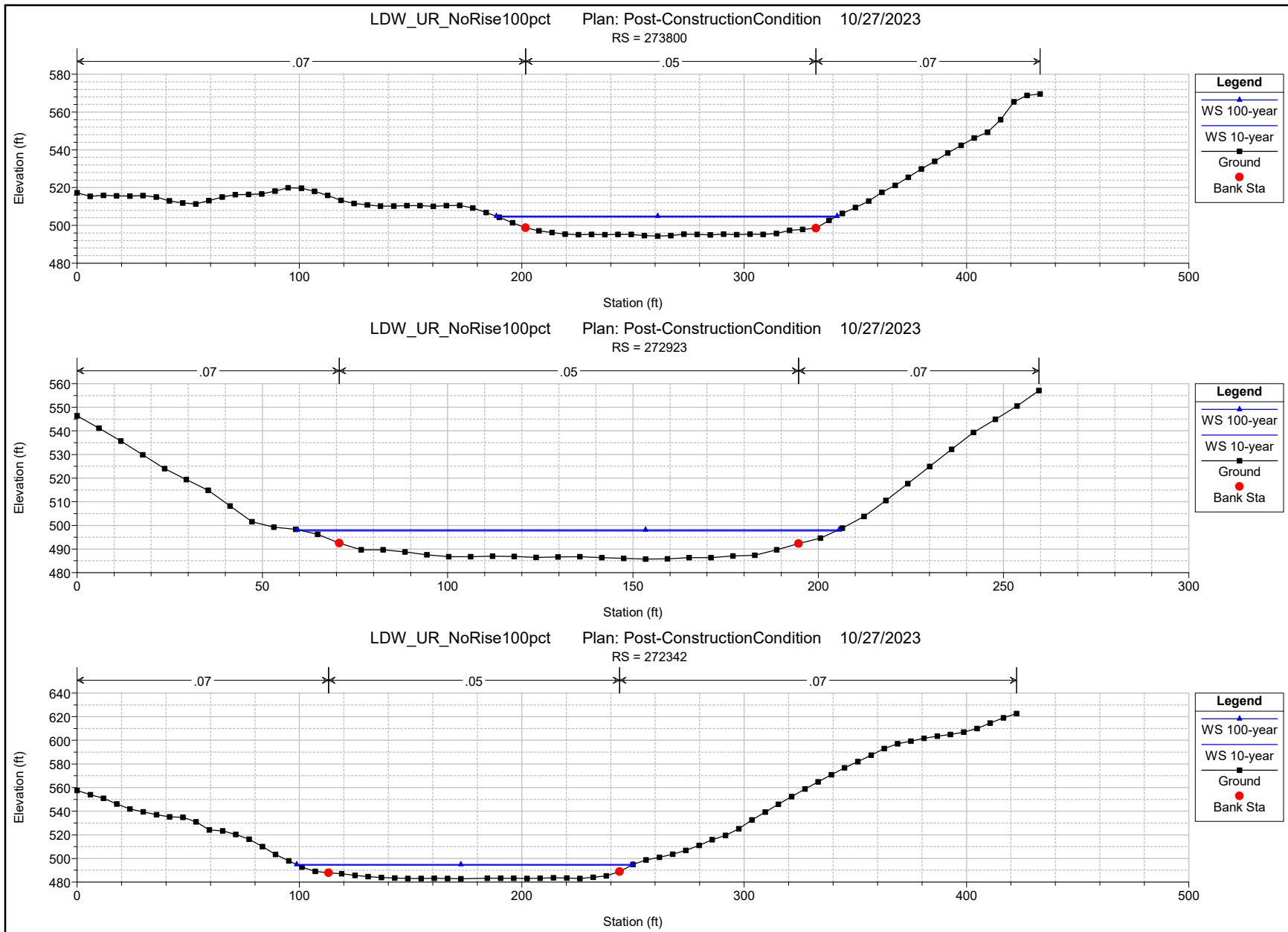






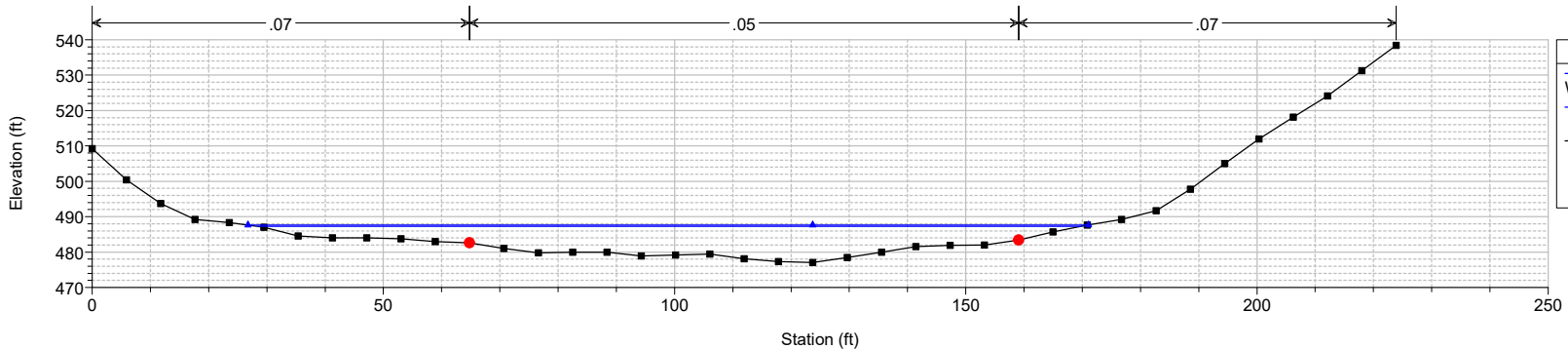




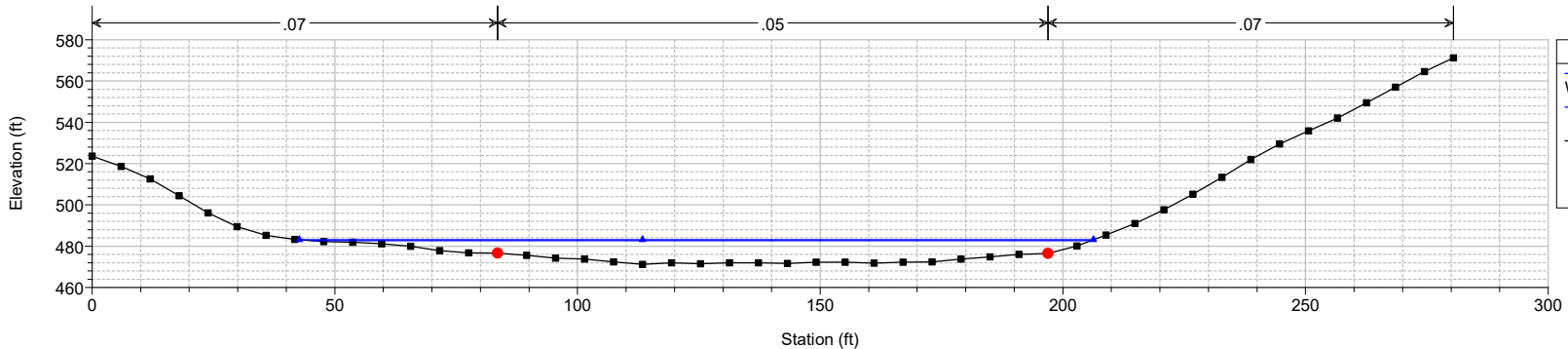




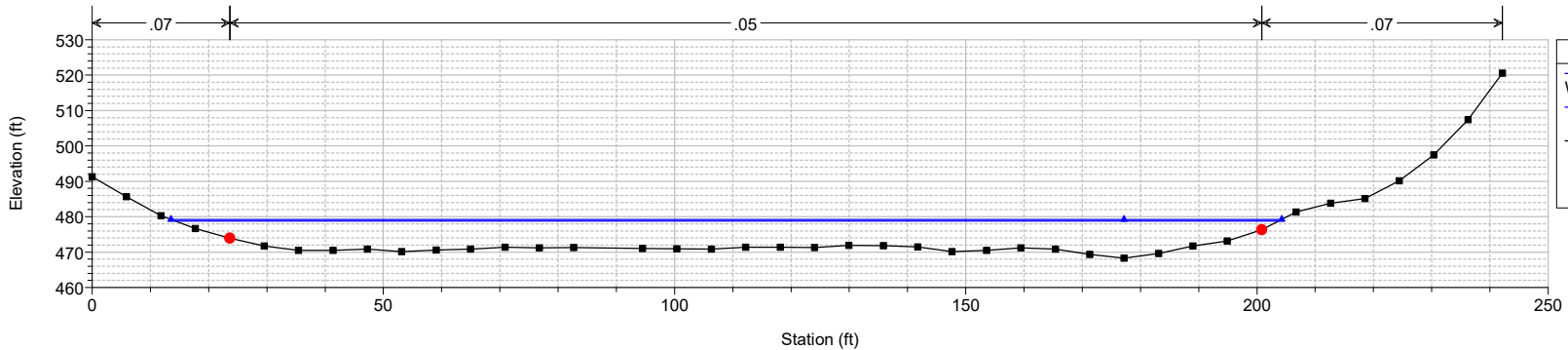
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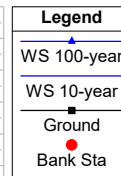
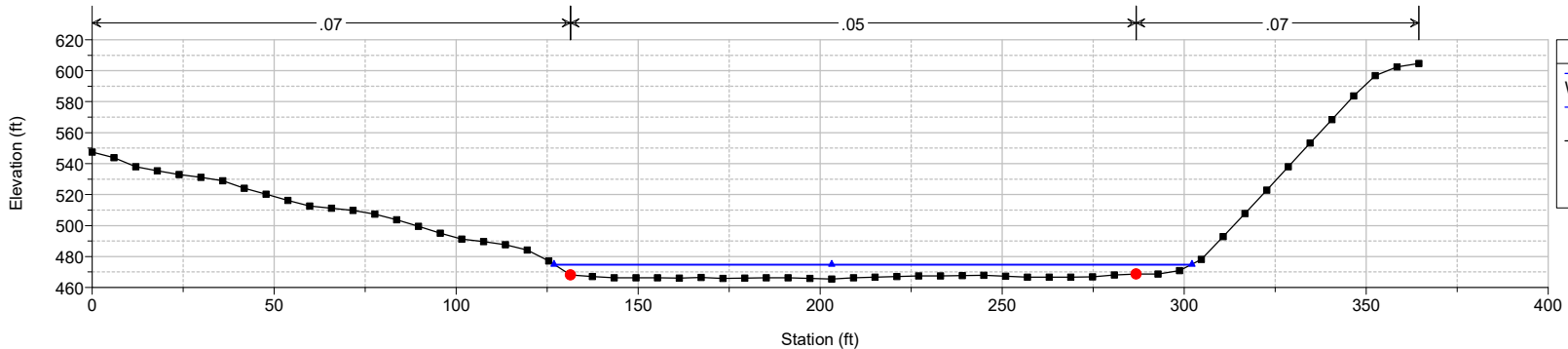
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RS = 271535



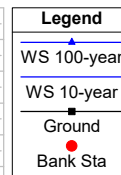
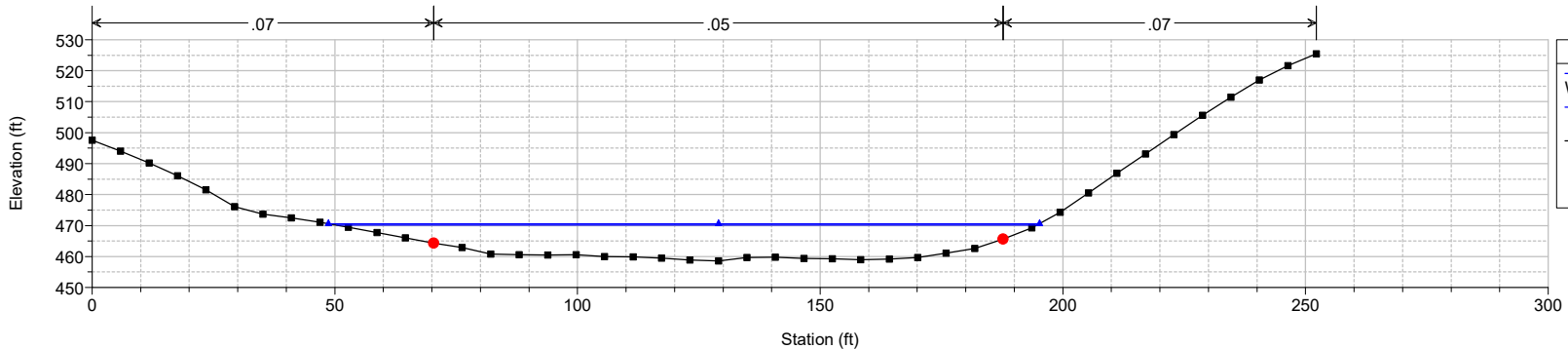
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RS = 271038



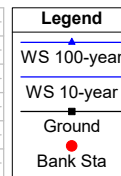
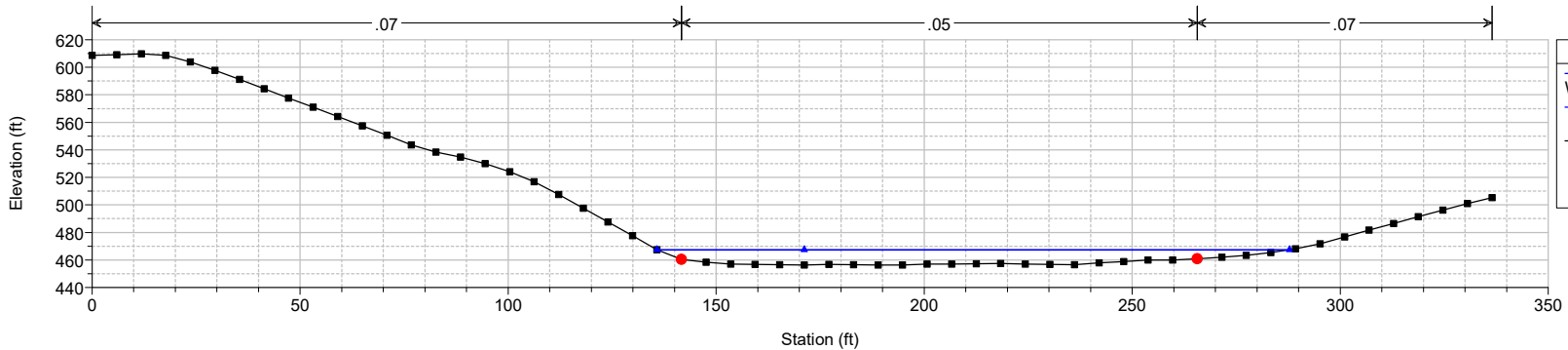
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RS = 270579



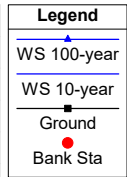
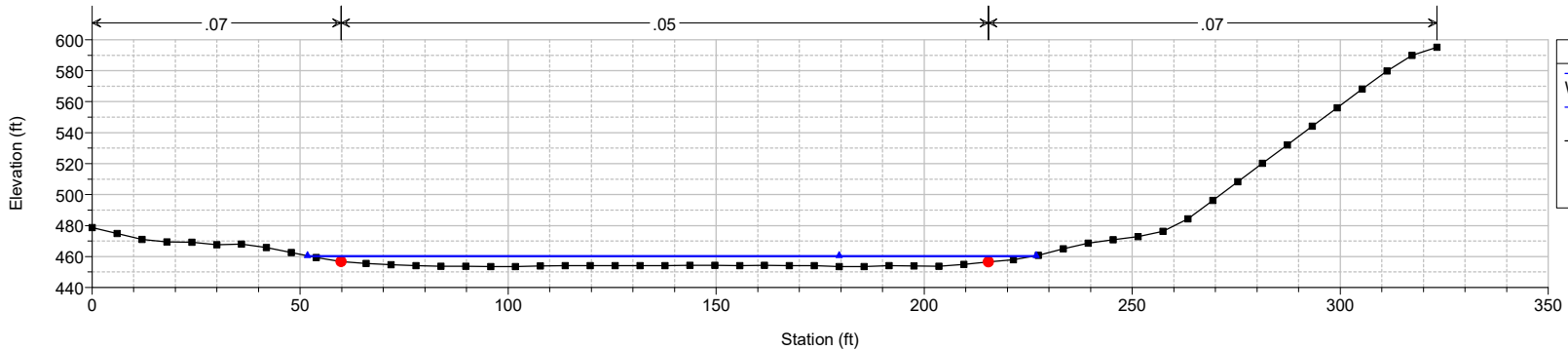
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RS = 270114



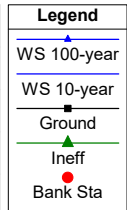
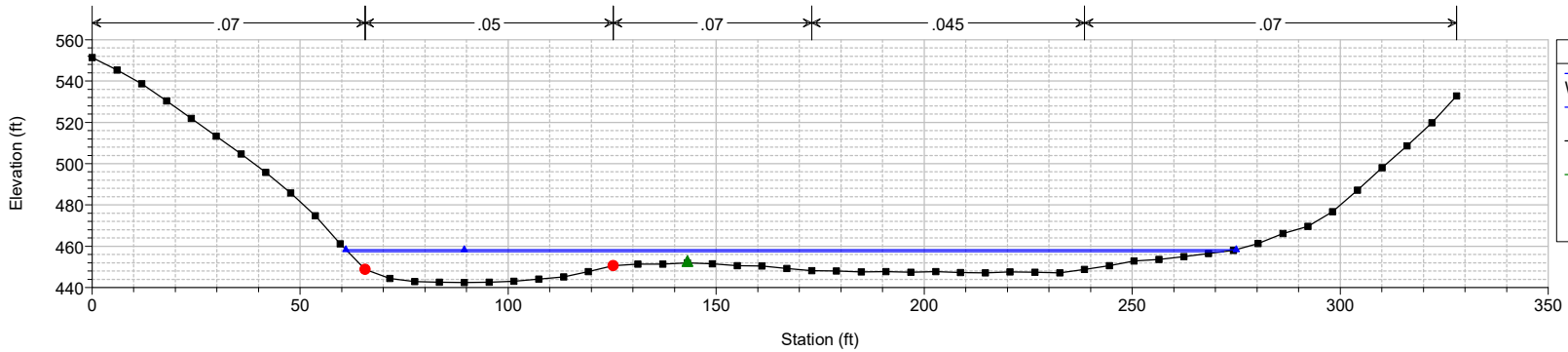
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RS = 269729



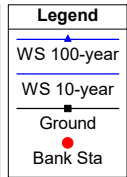
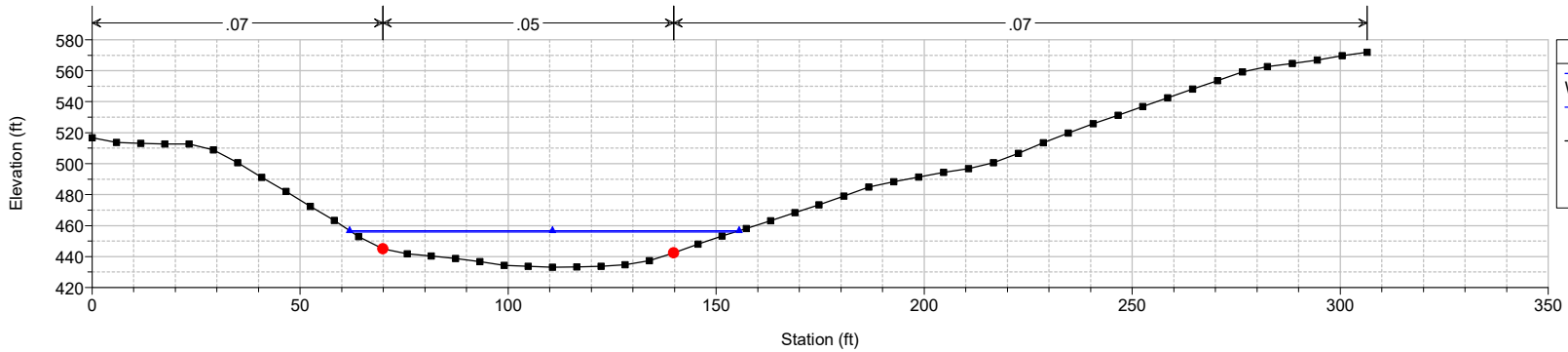
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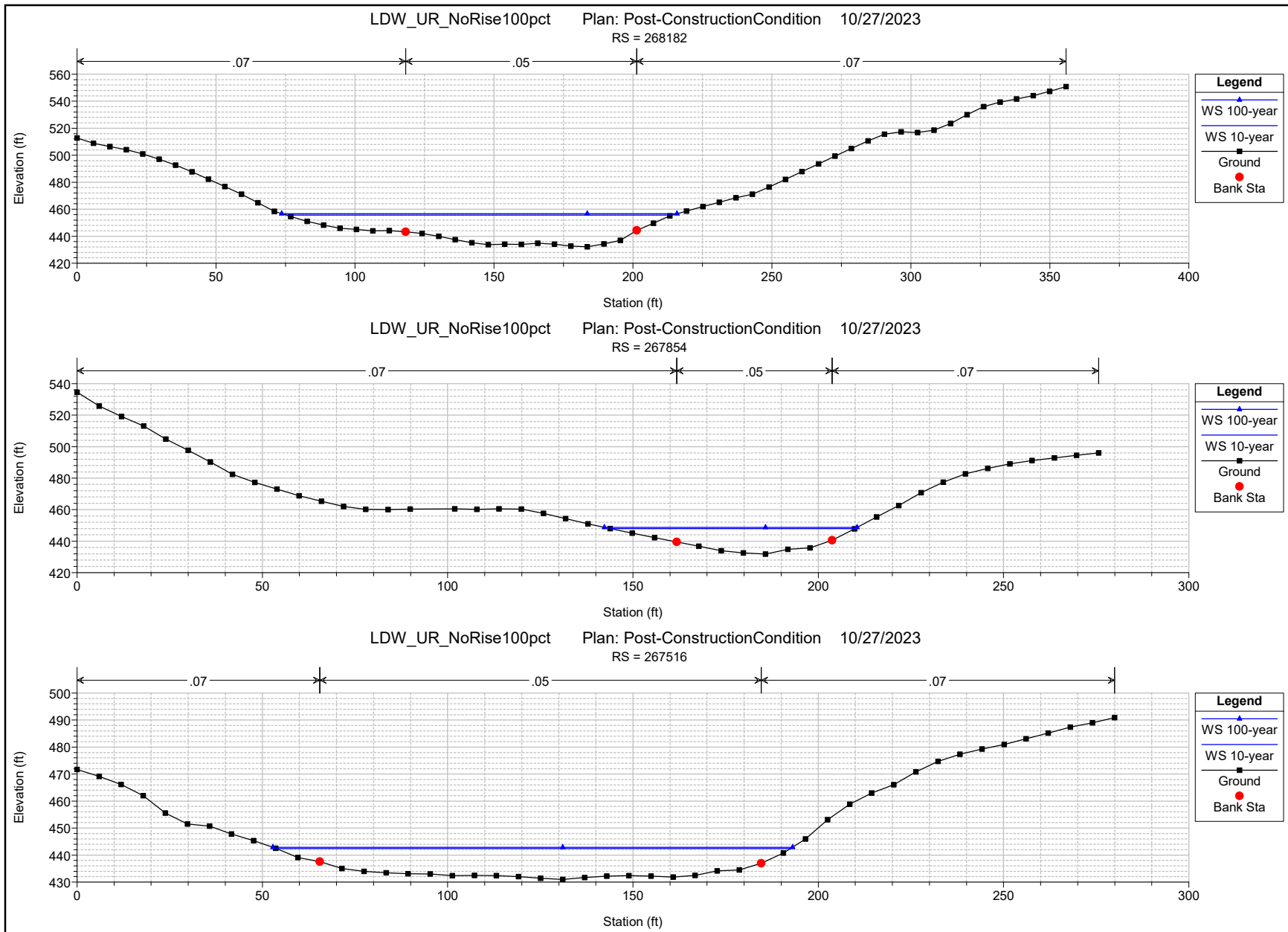


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RS = 268752

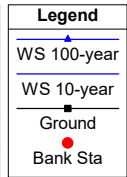
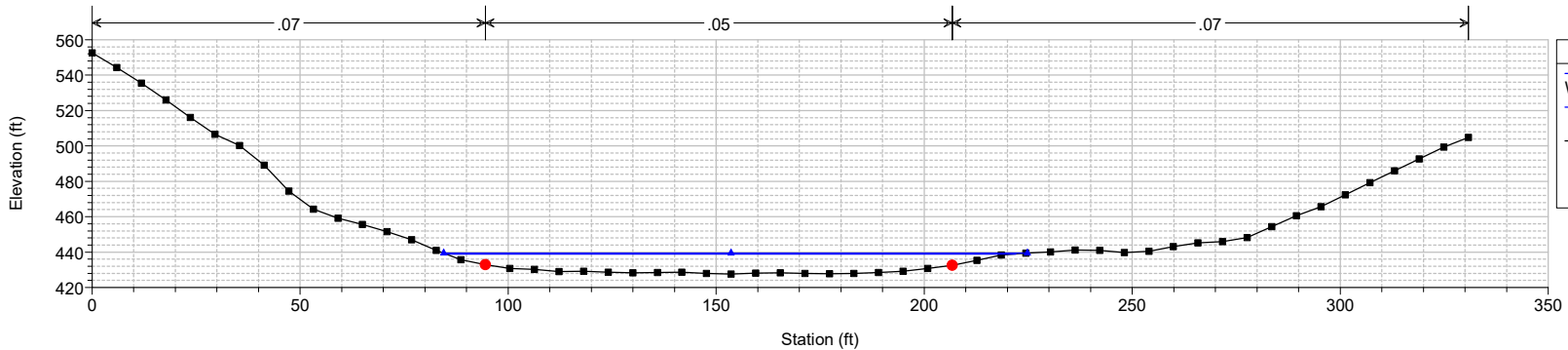


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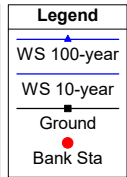
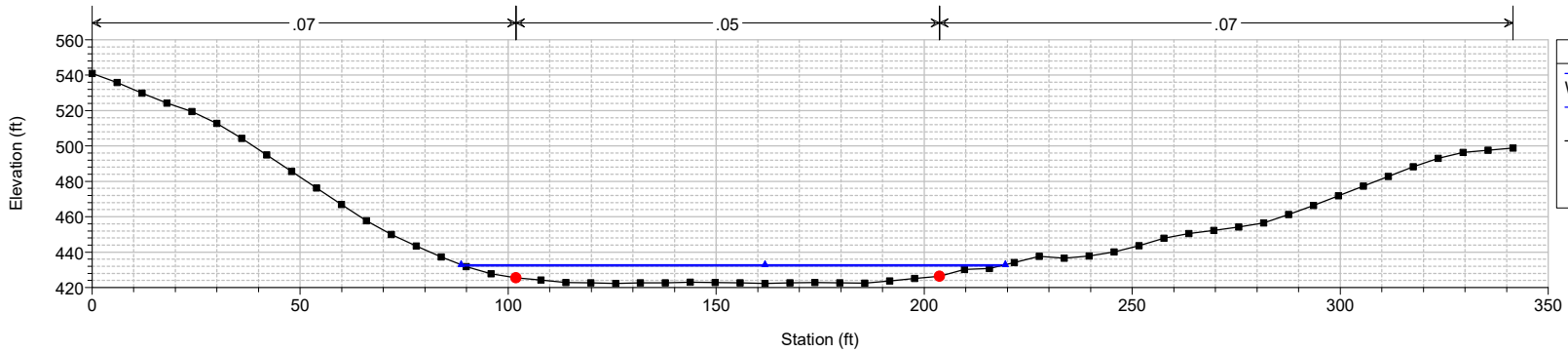




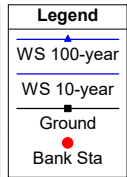
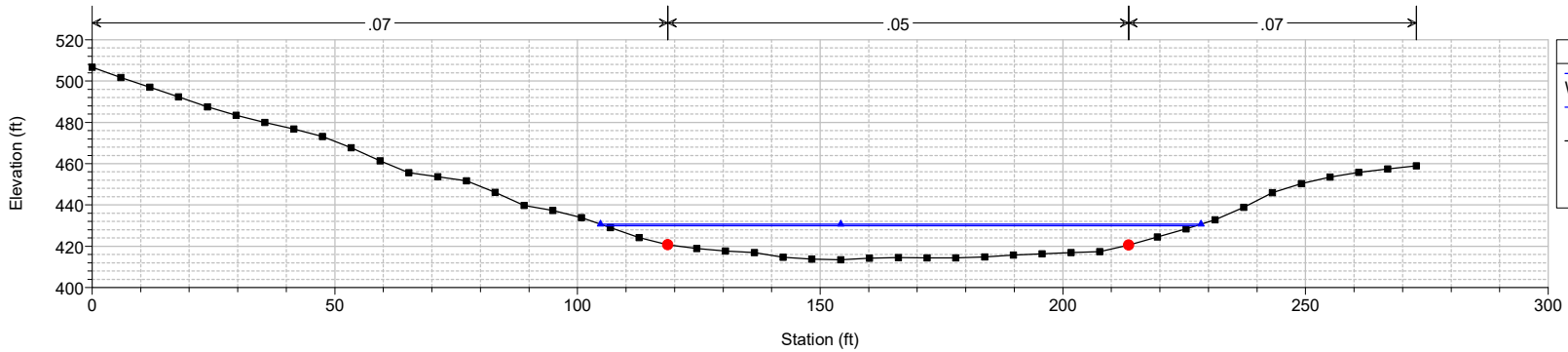
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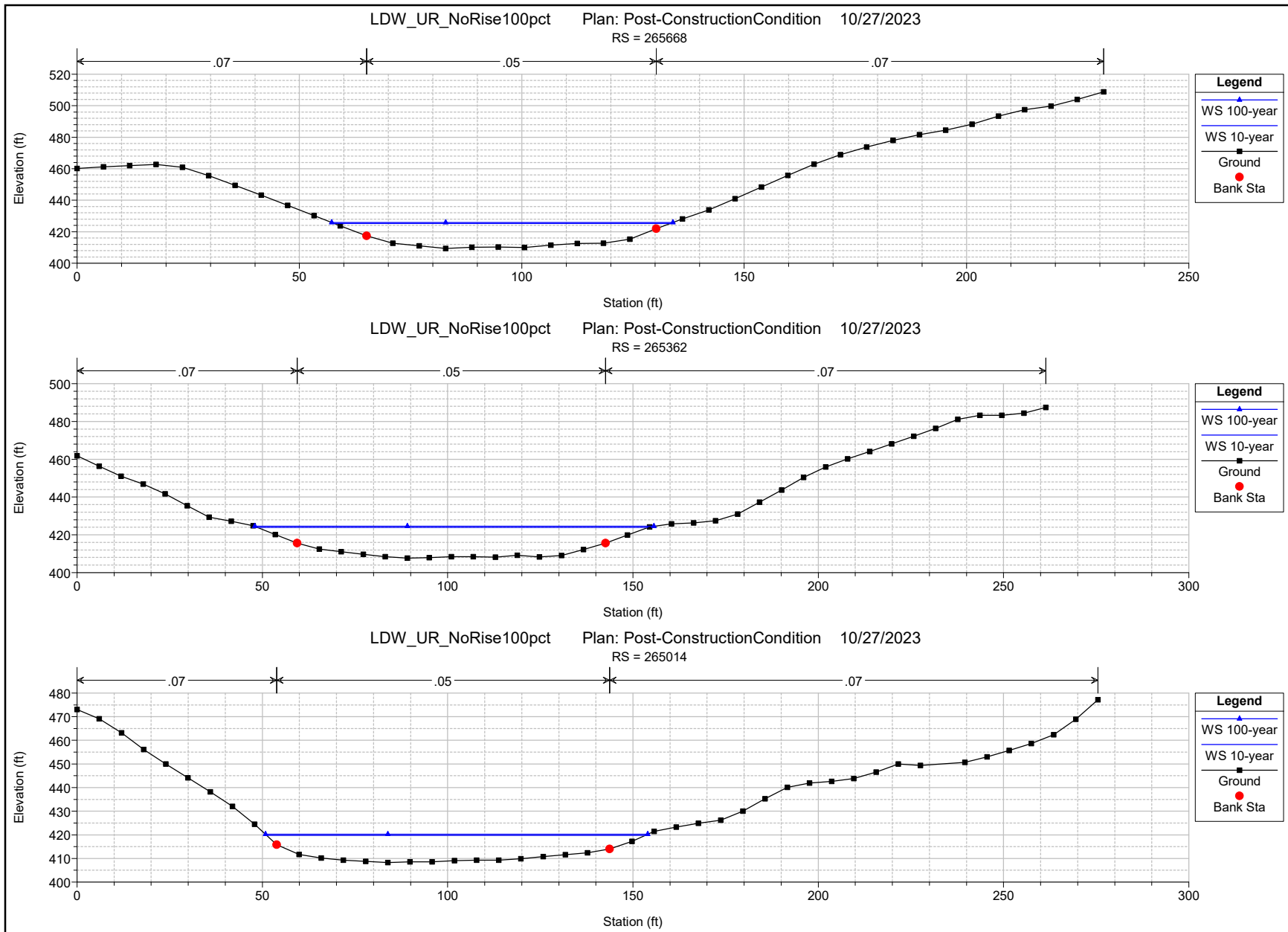


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RS = 266561

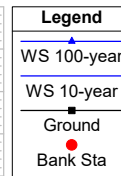
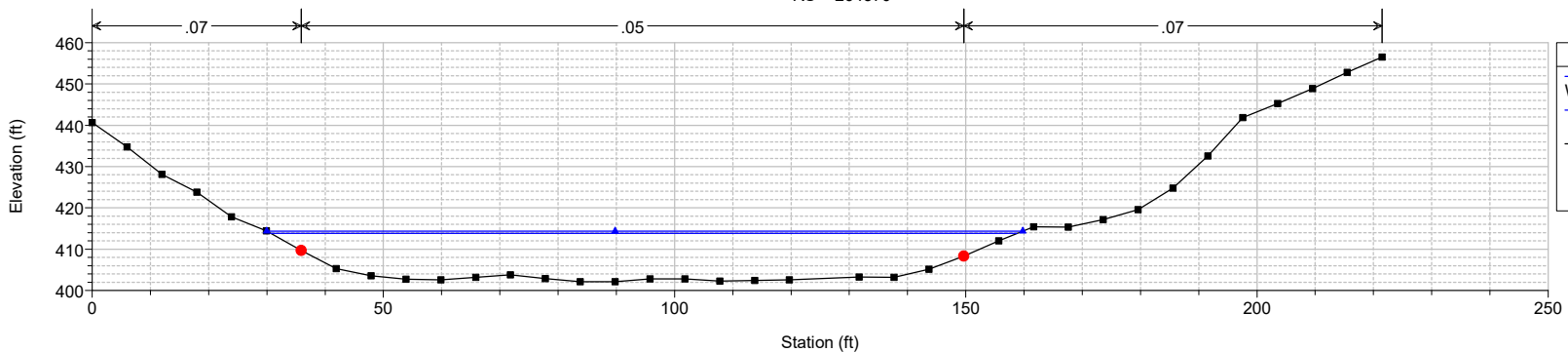


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RS = 266133

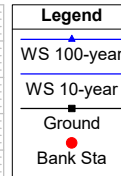
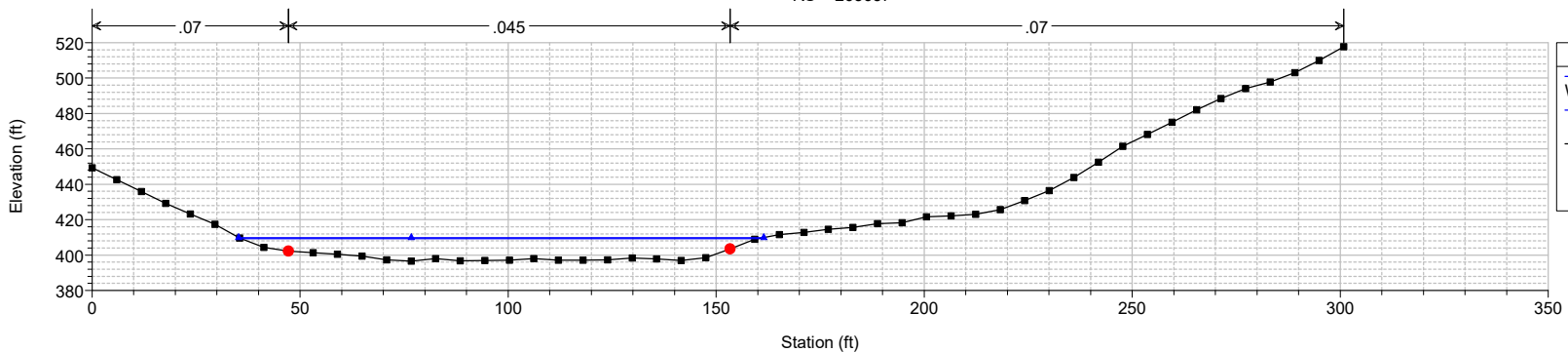




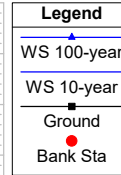
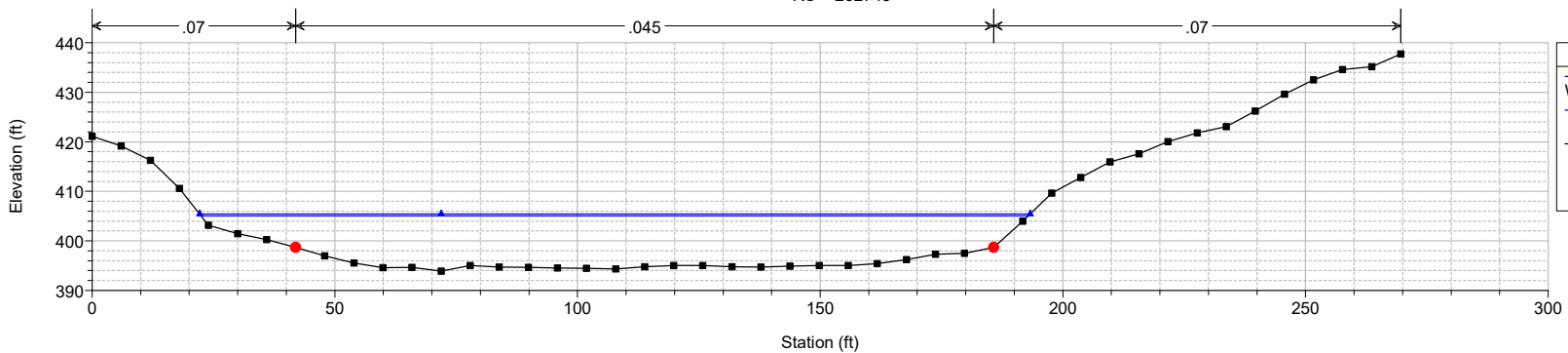
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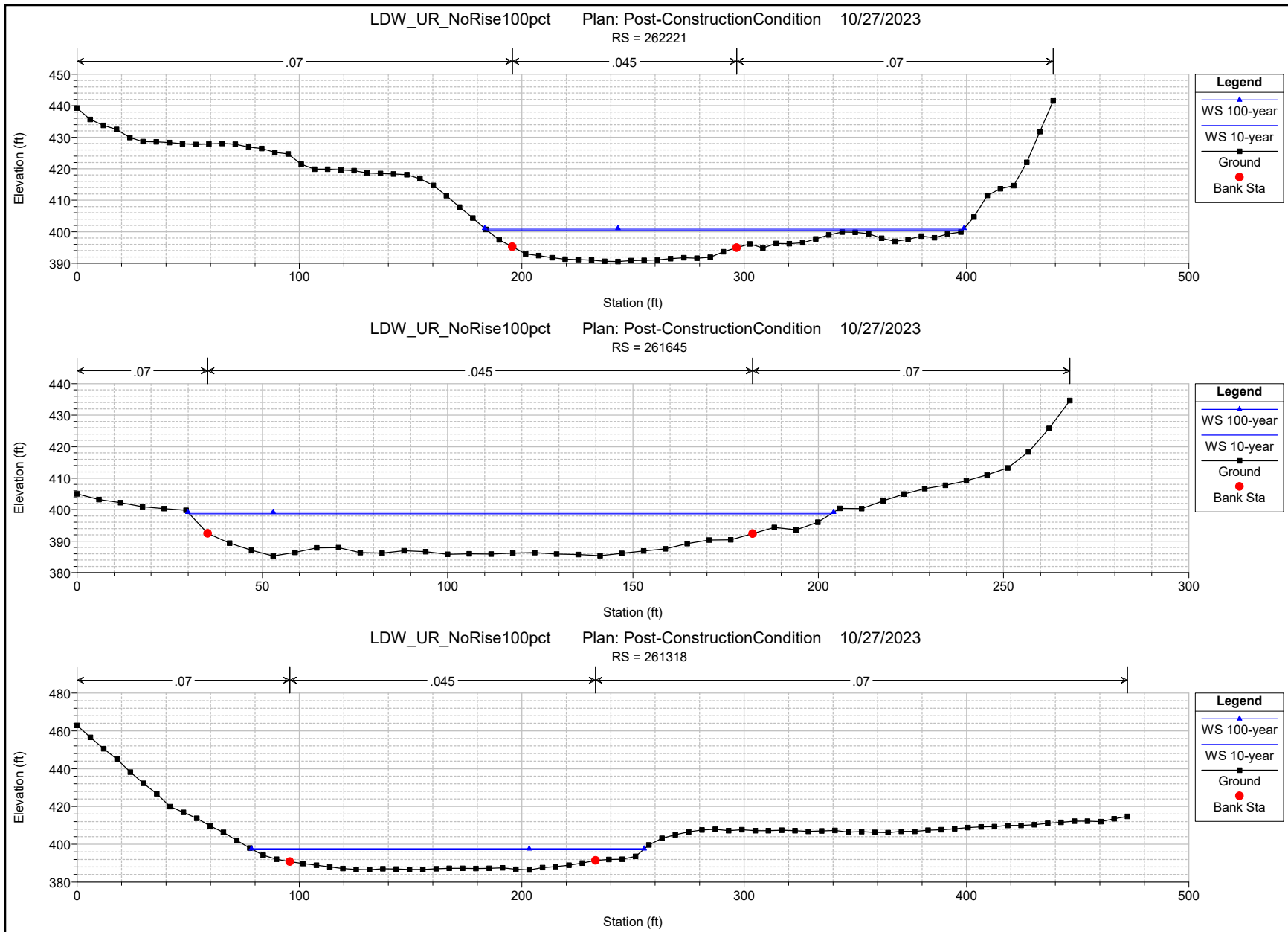


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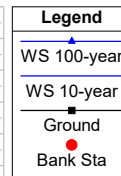
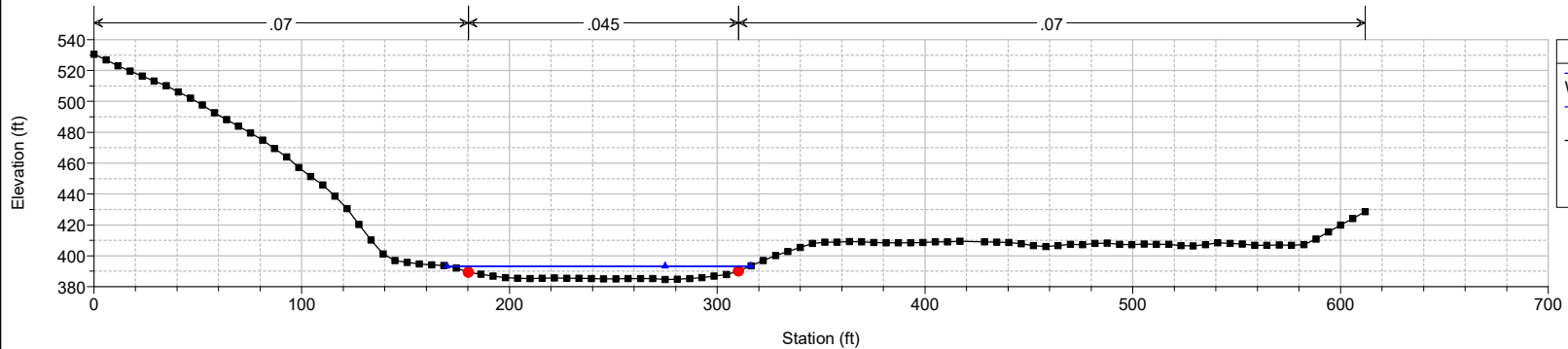
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RS = 262743



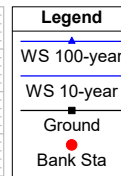
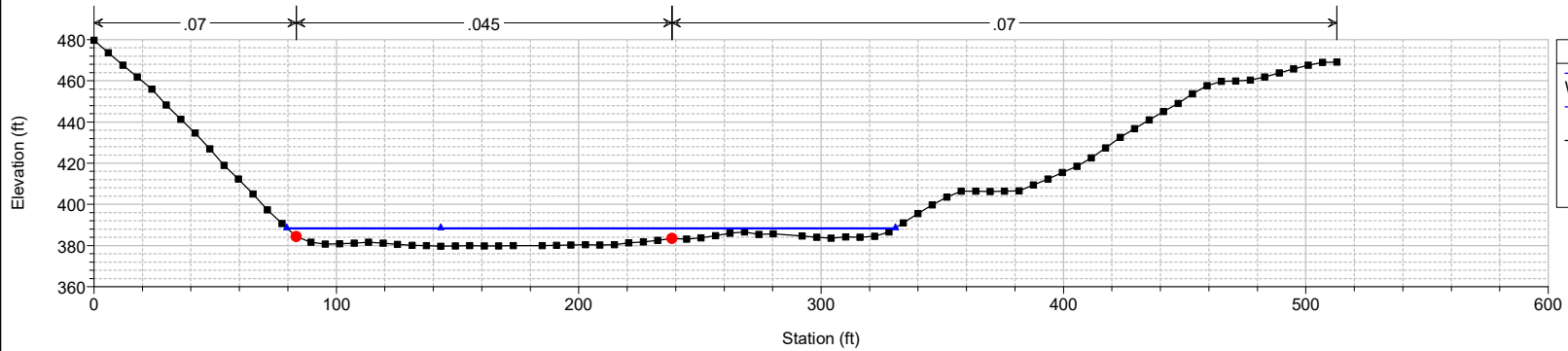




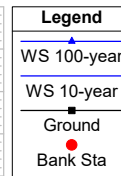
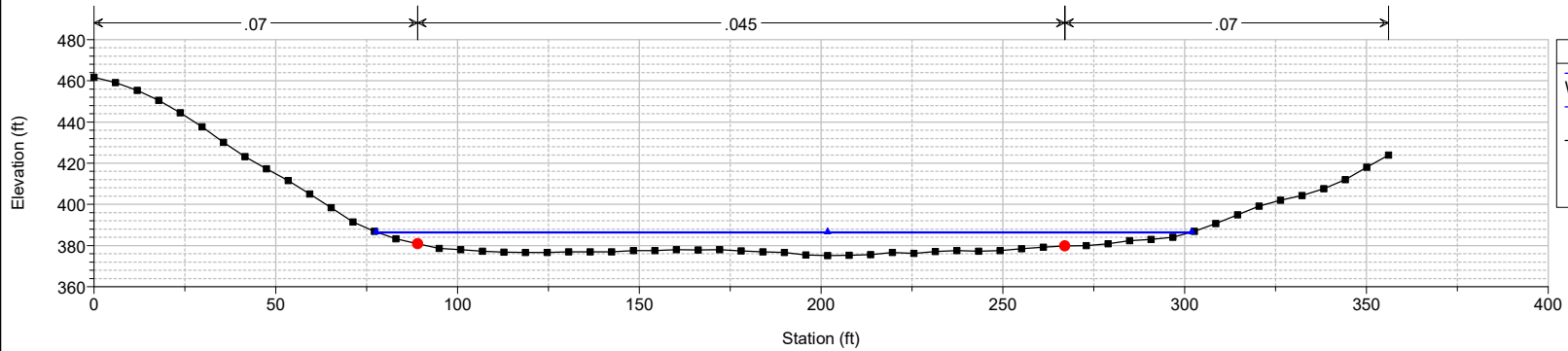
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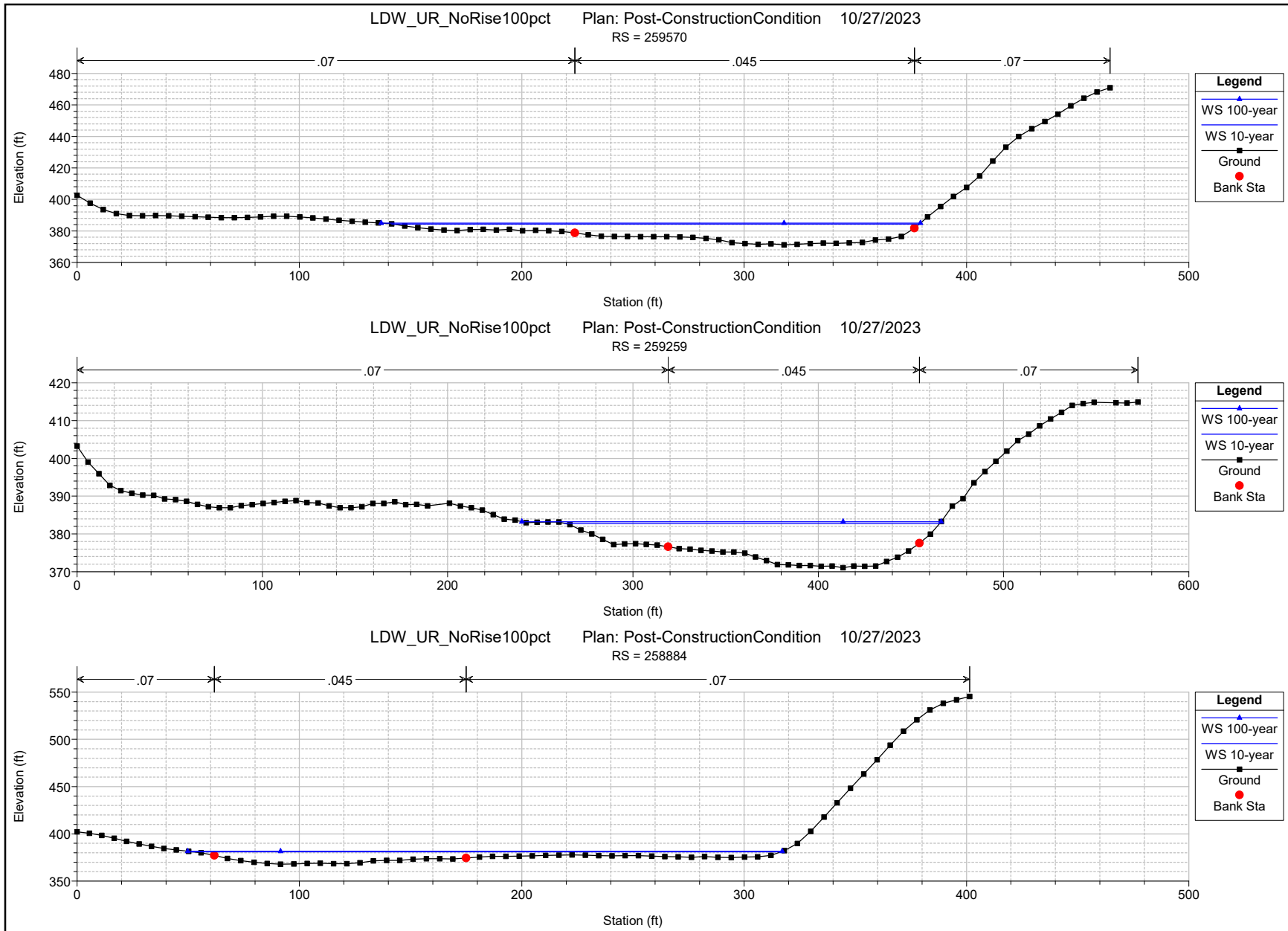


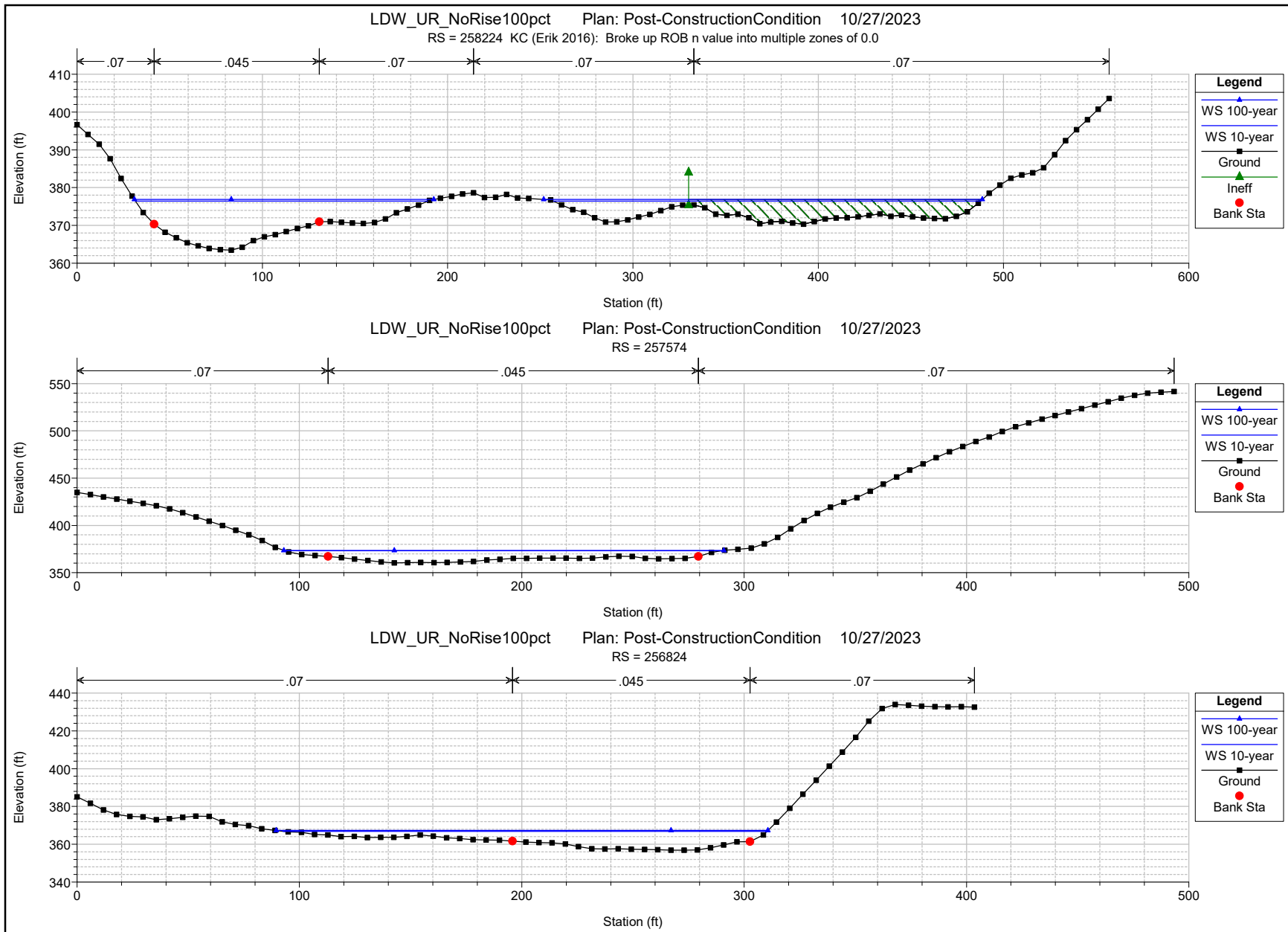
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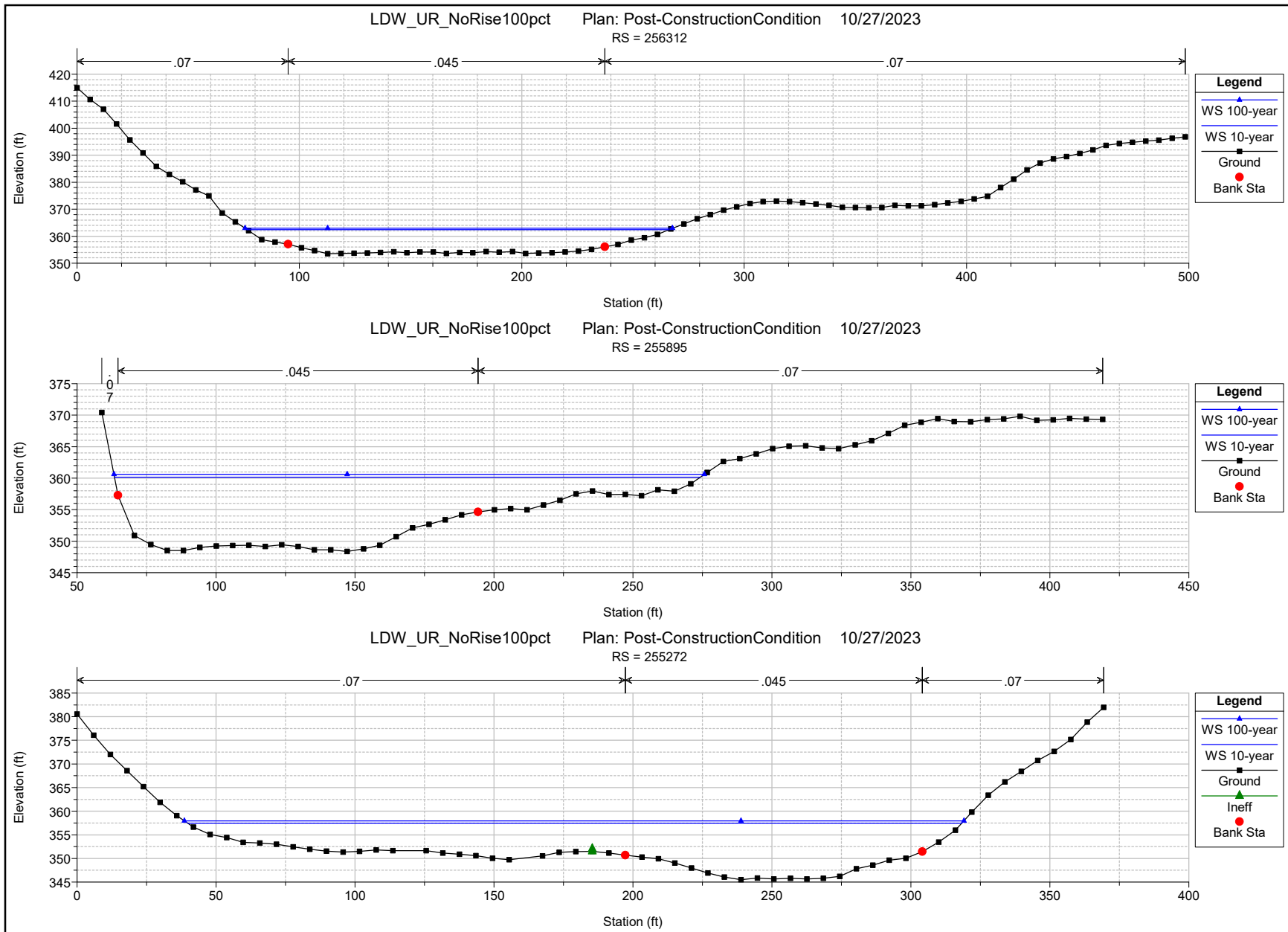


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 260040

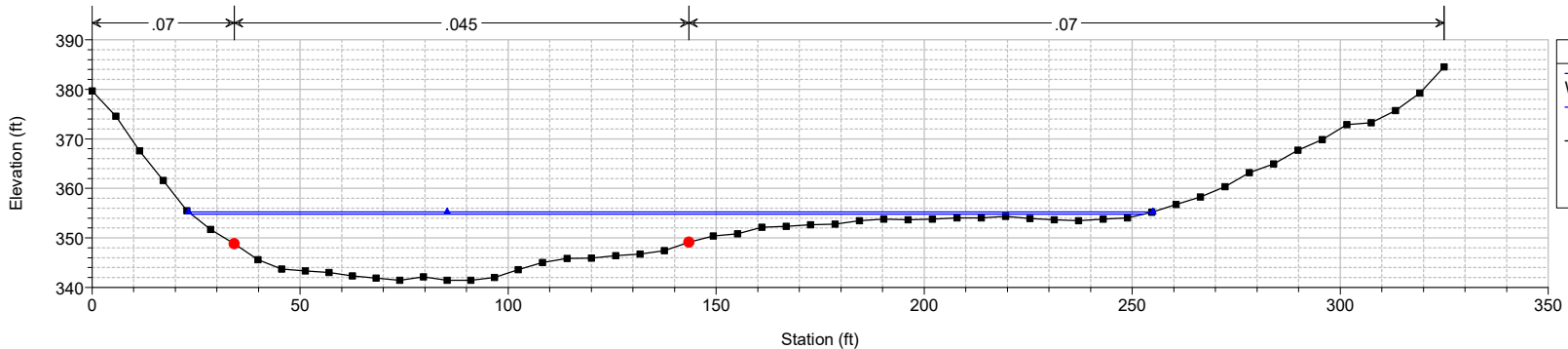




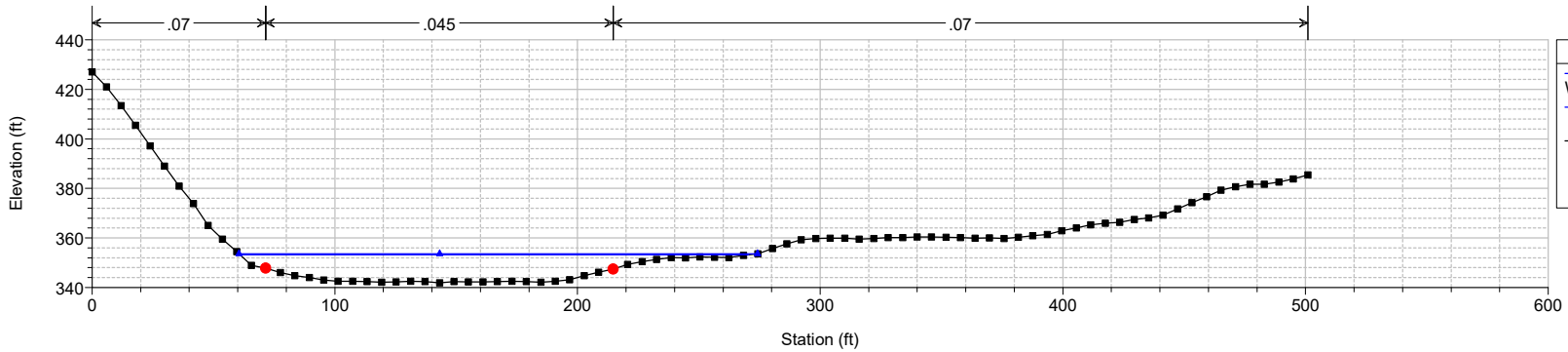




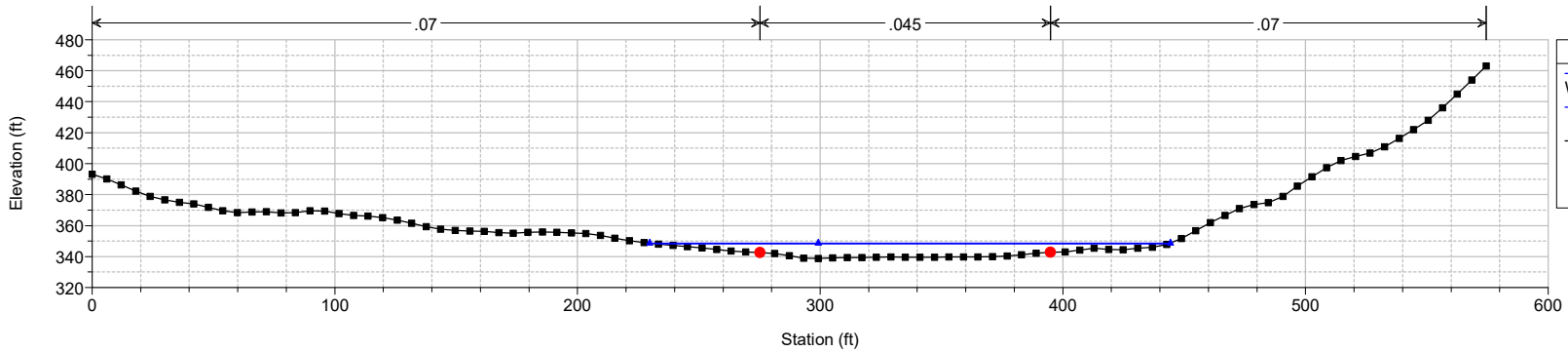
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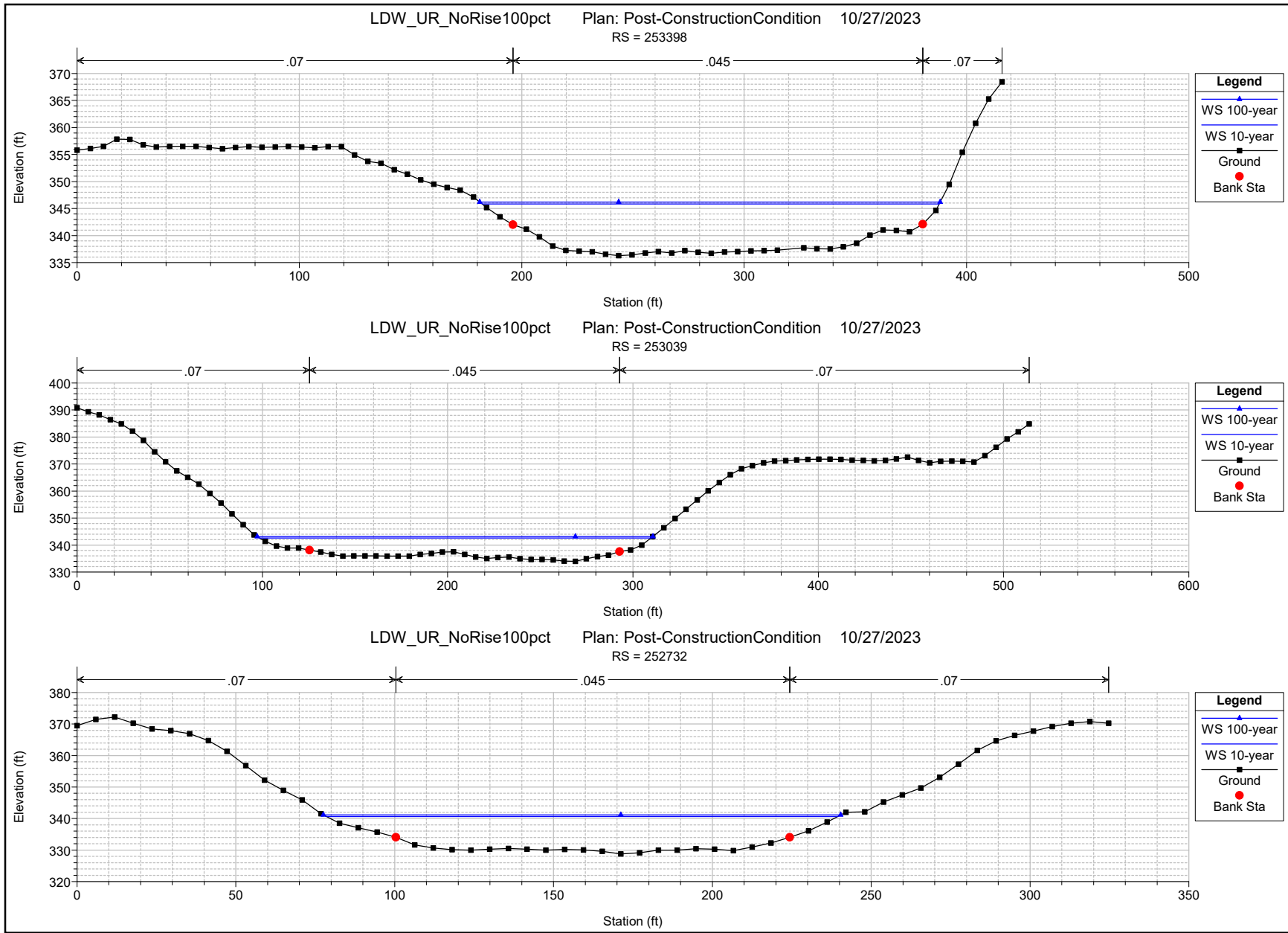


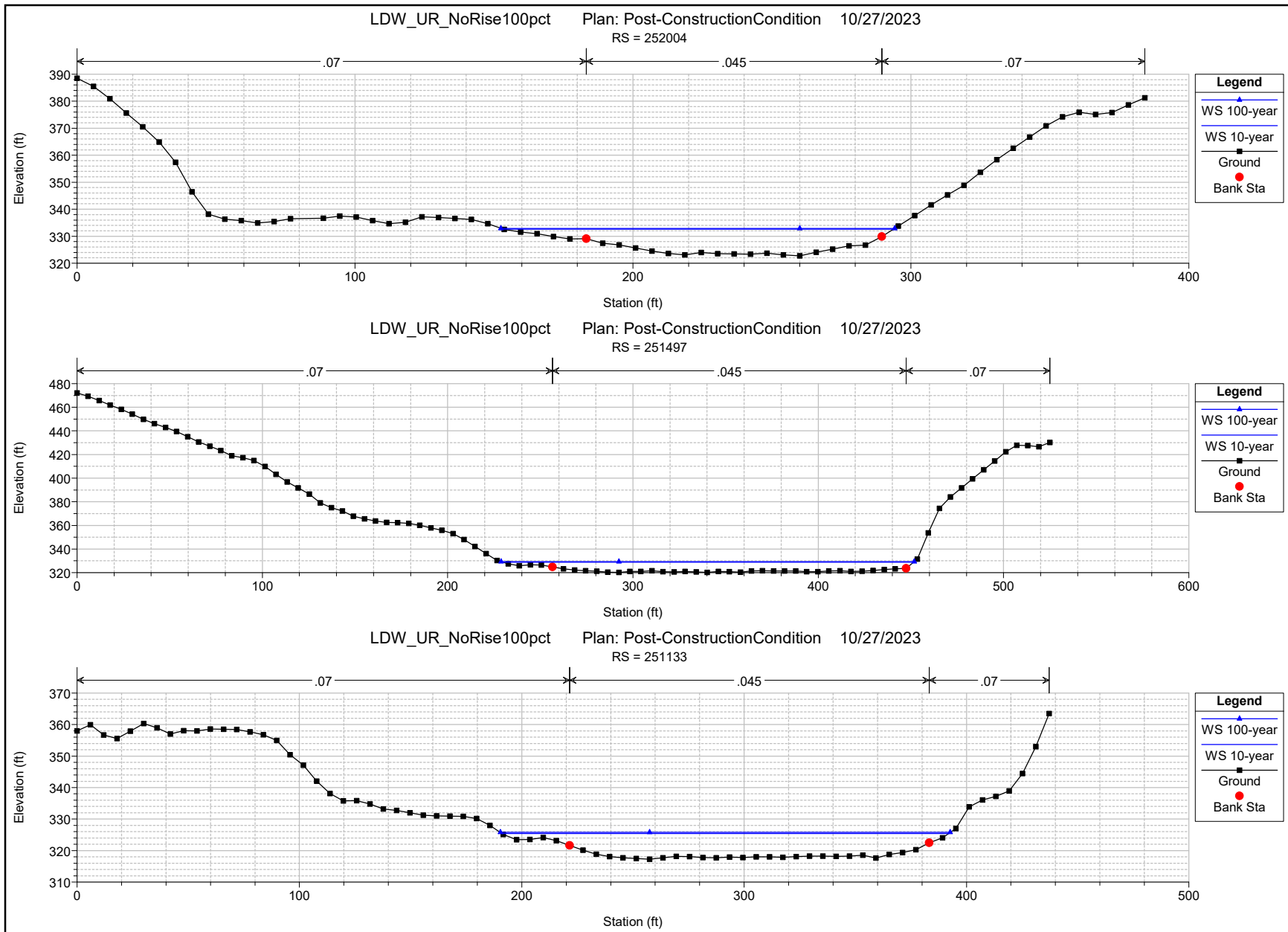
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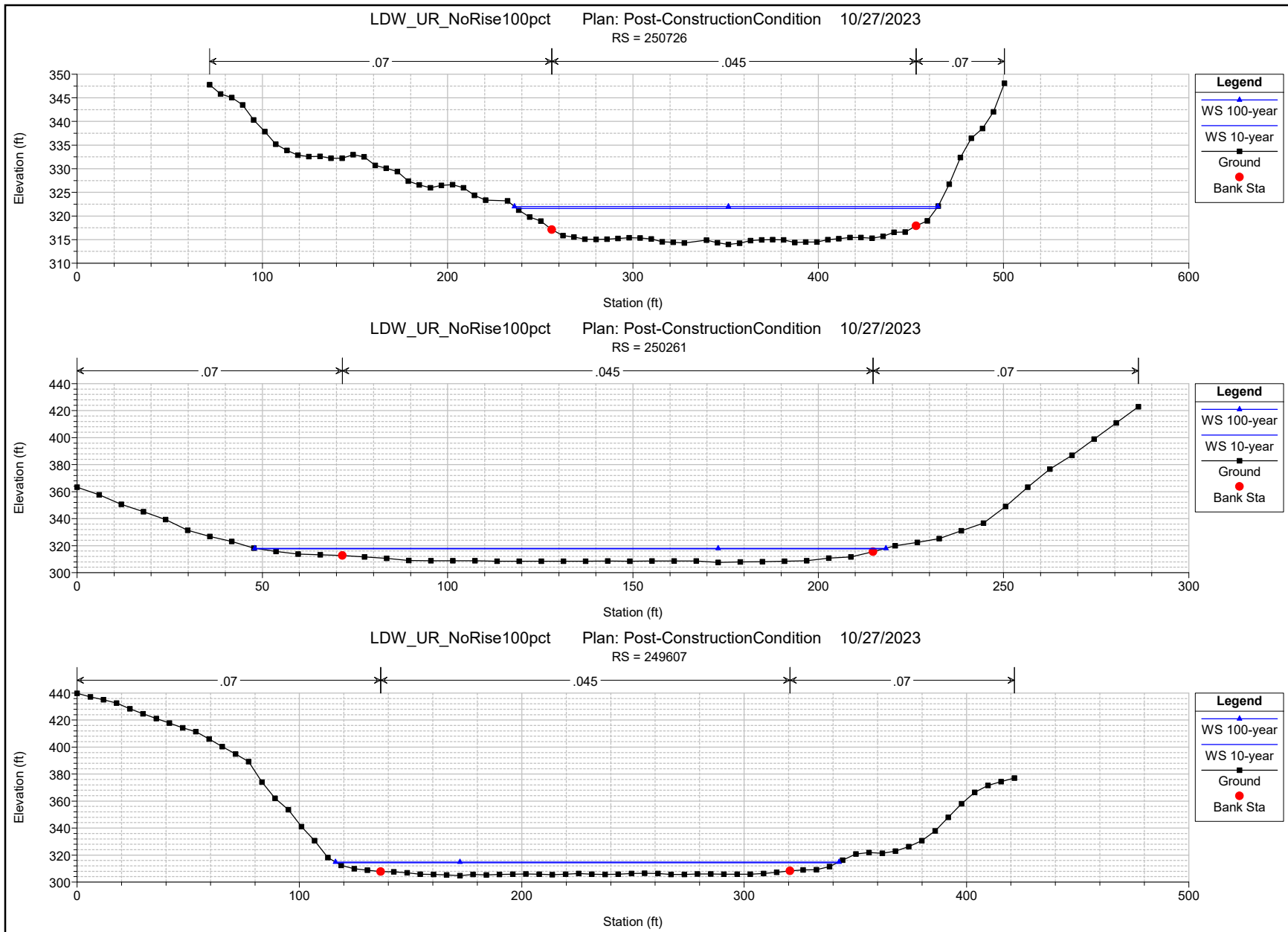


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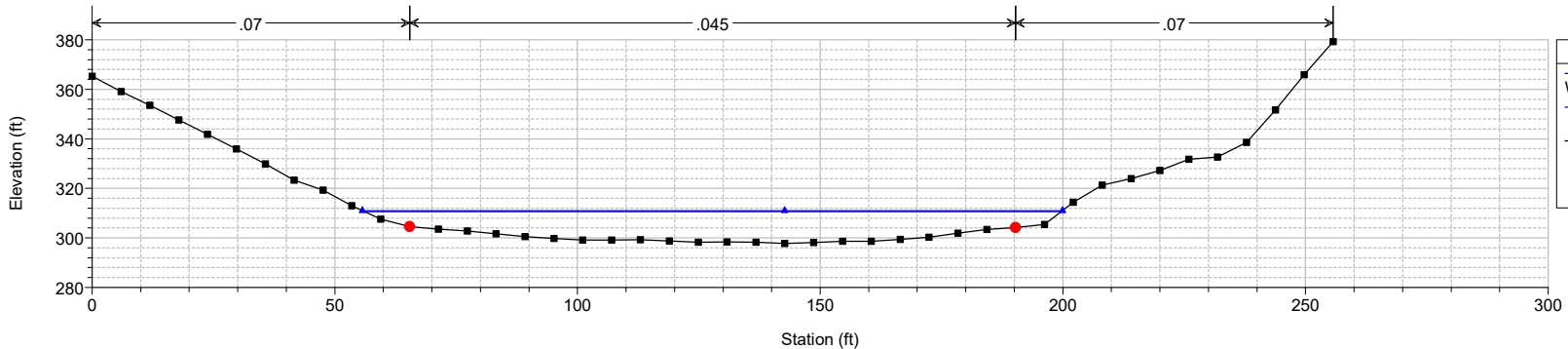




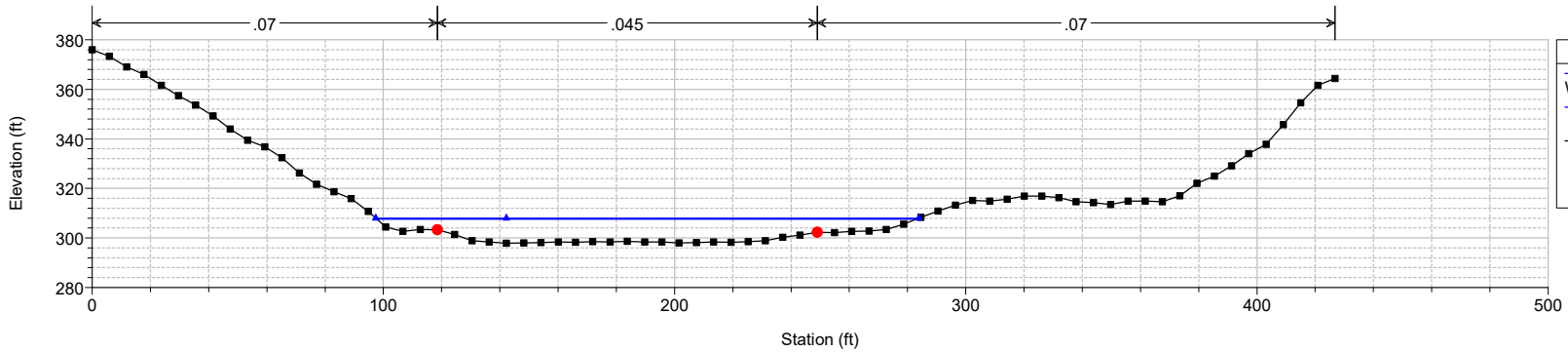




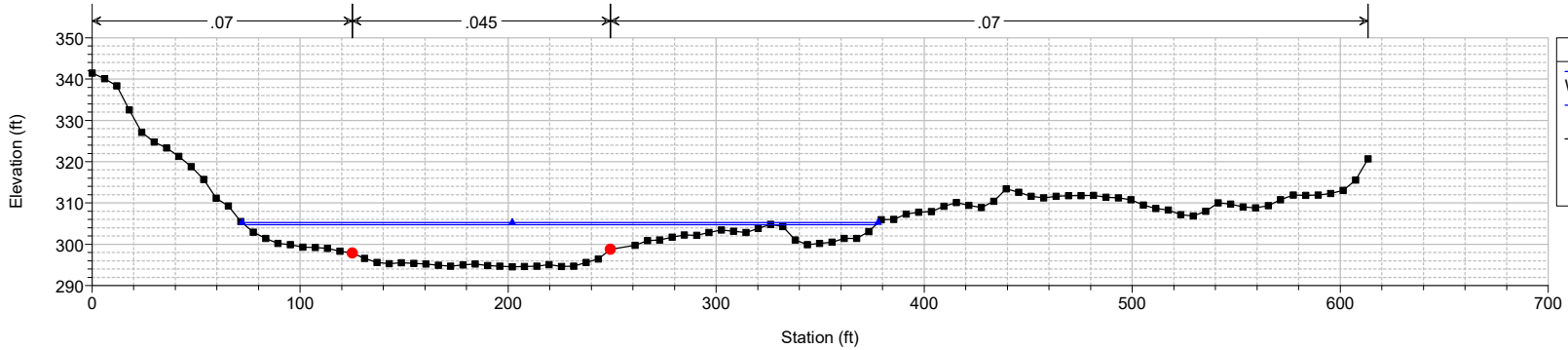
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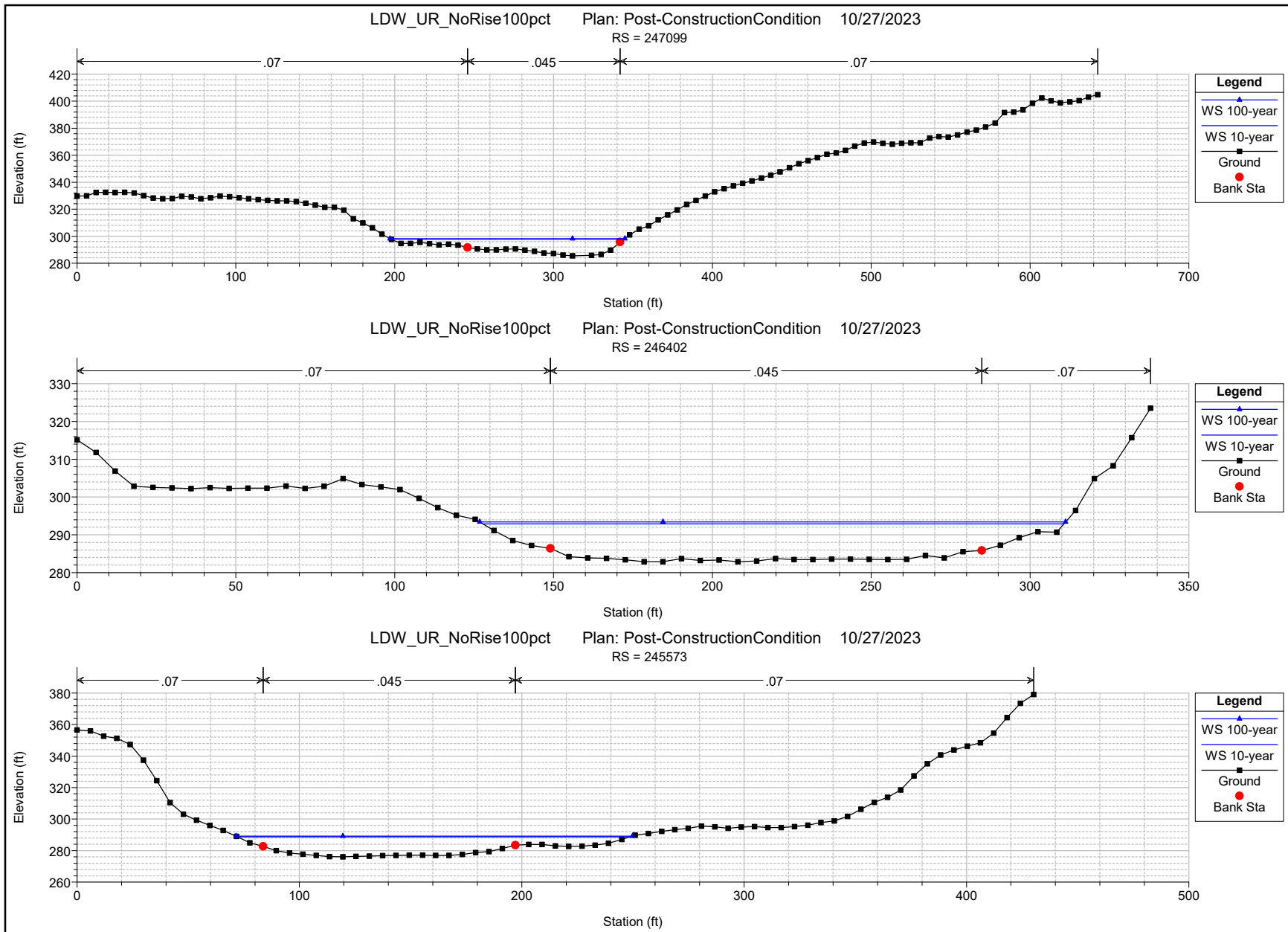


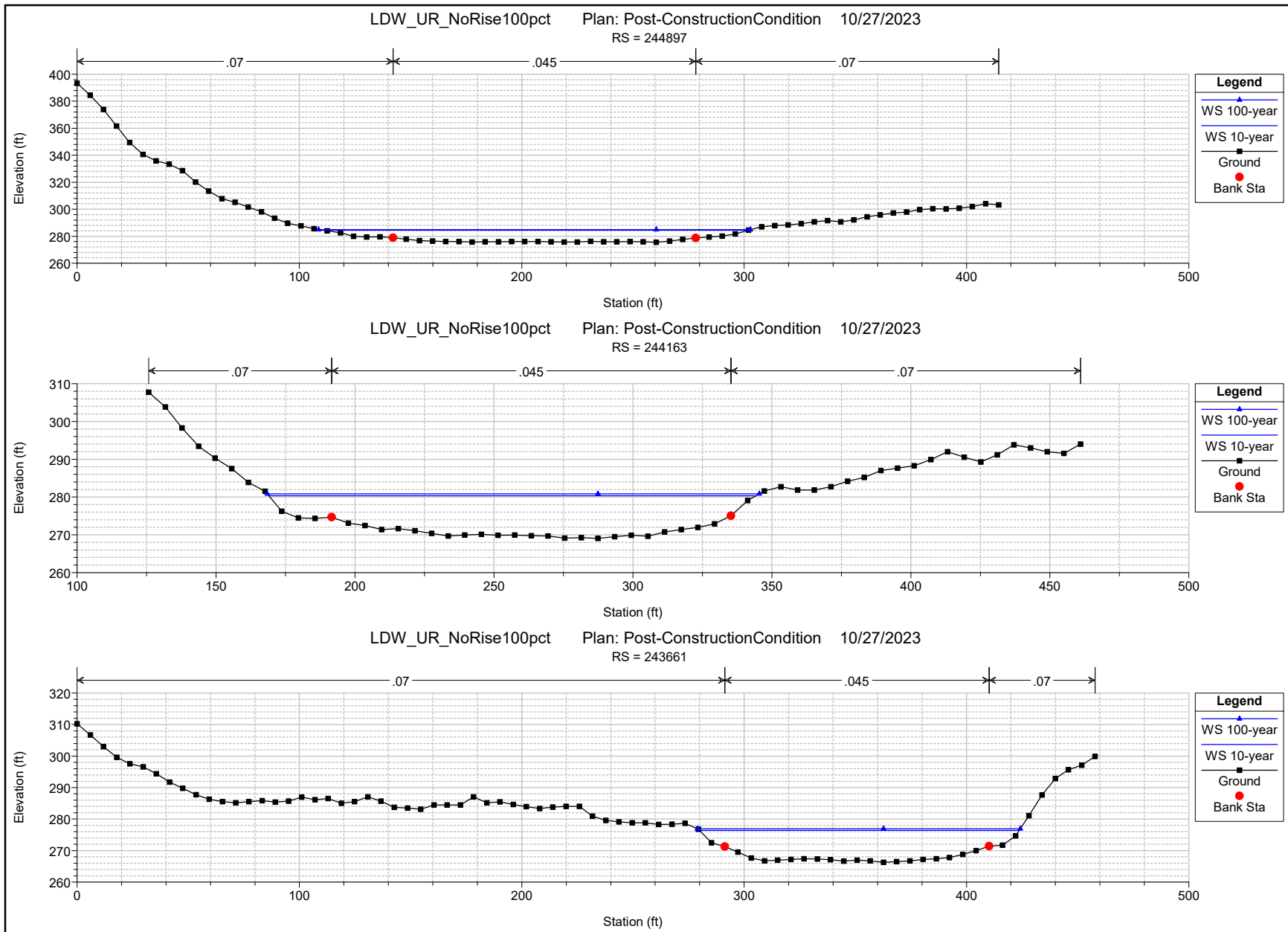
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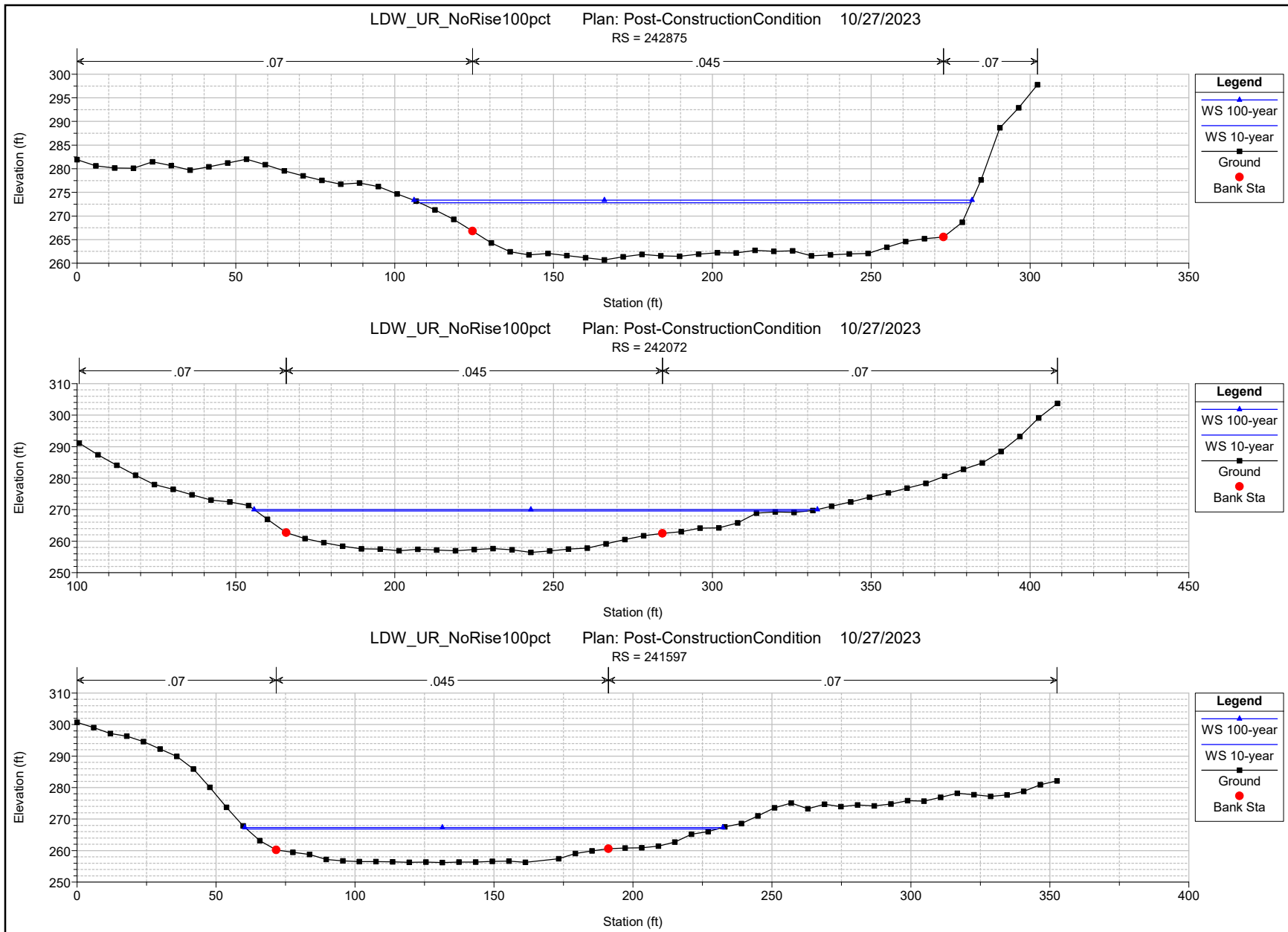


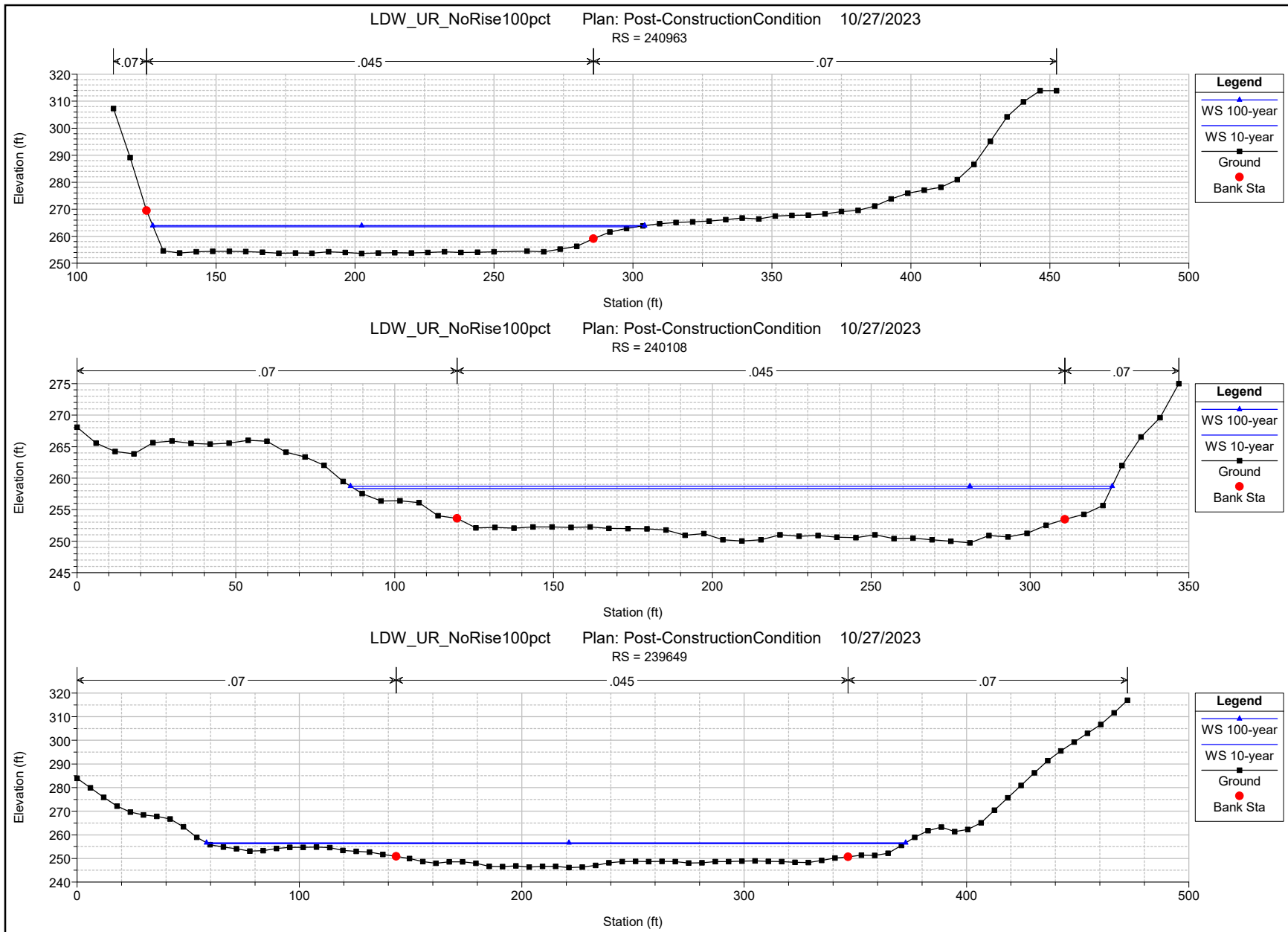
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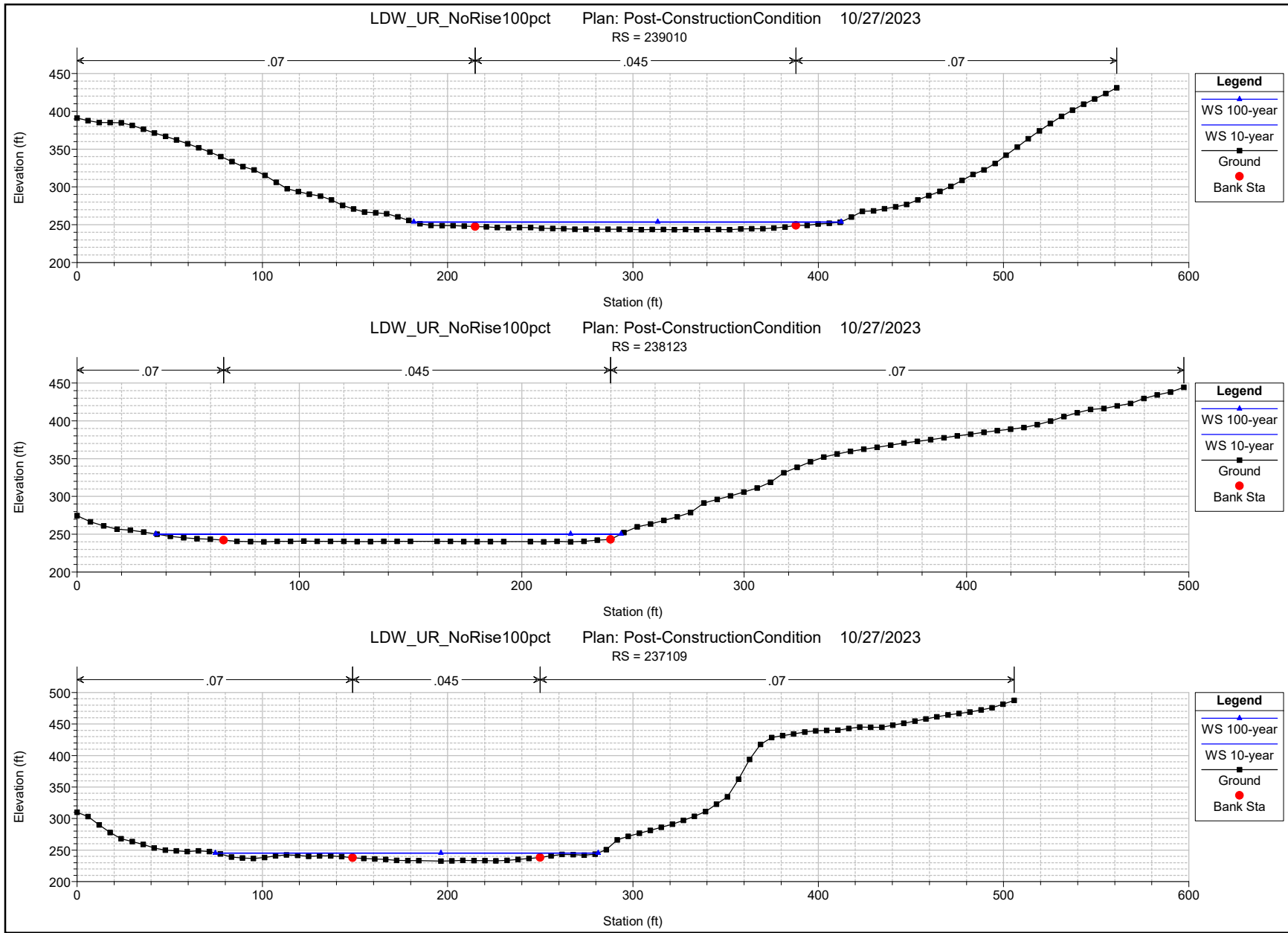


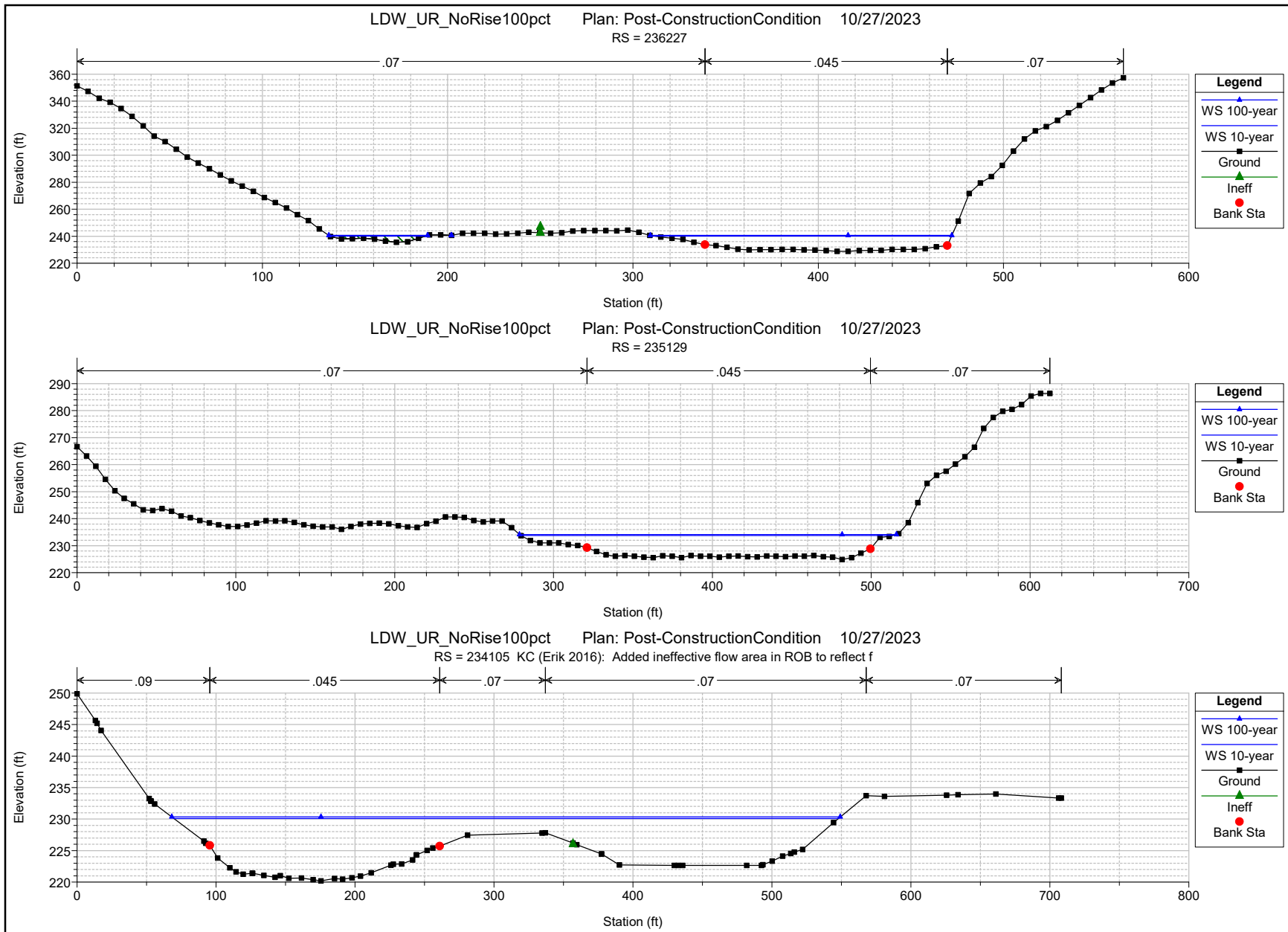




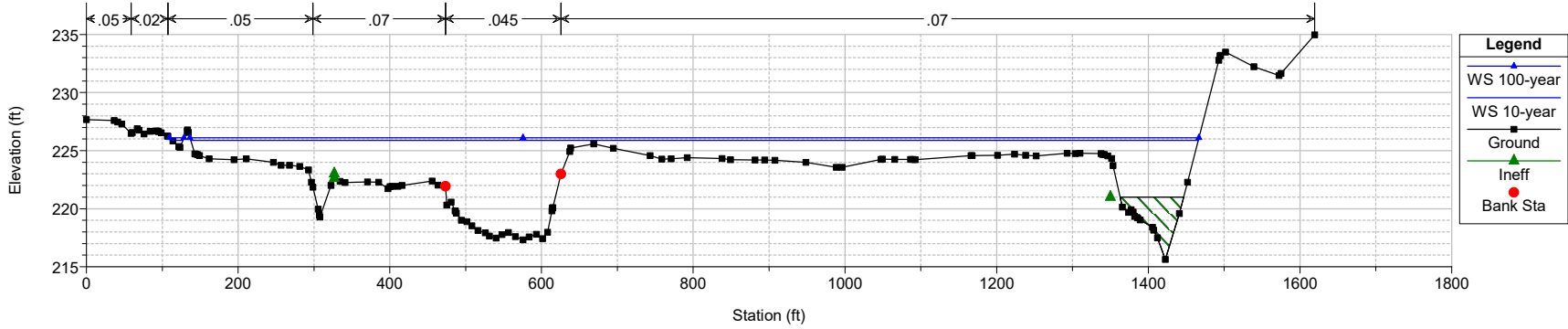




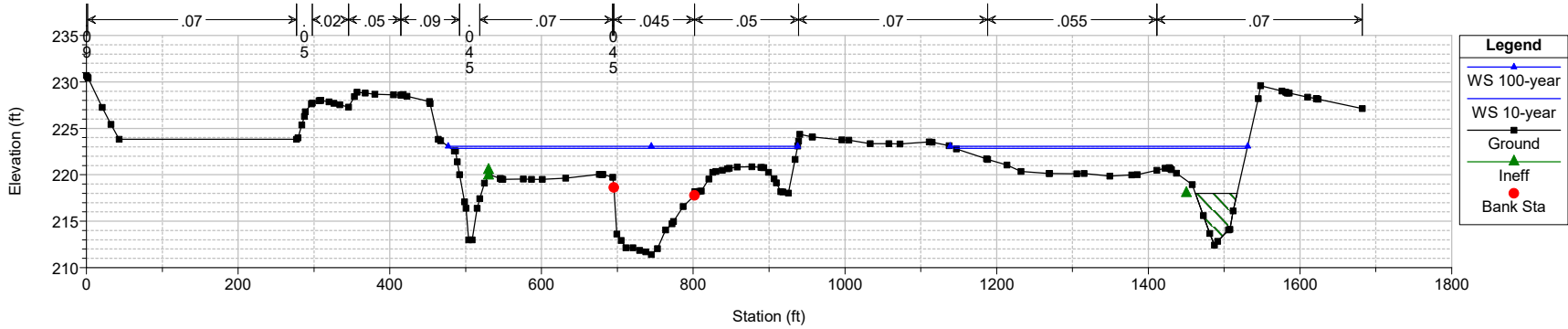




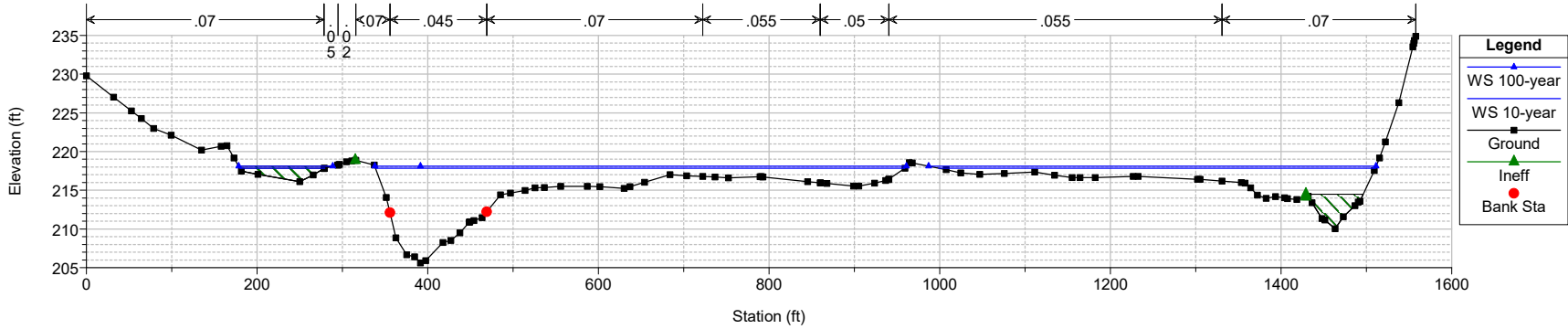
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 232663 KC (Erik P 2016): Made side channel an ineffective flow area.



LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 231739 NHC: Side channel bottom was modified between stations 492 and

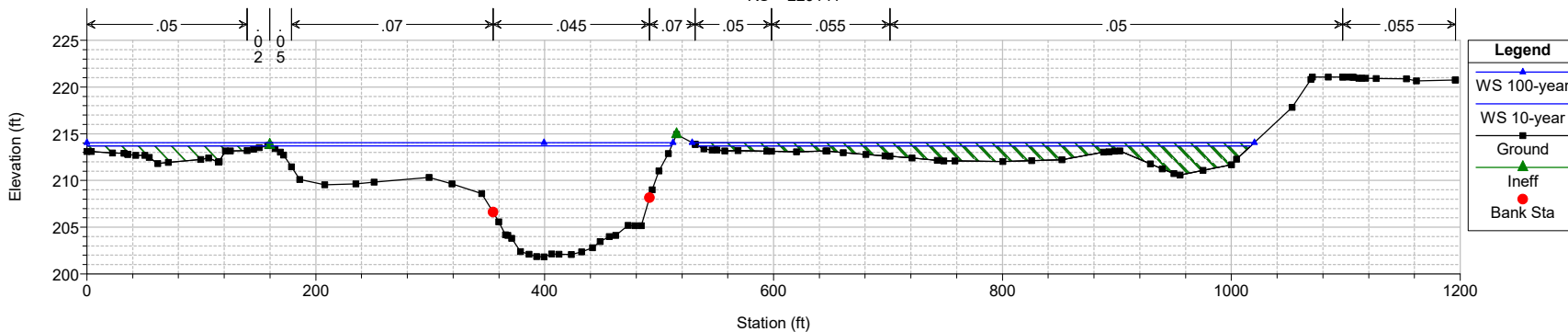


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 230303 KC (Erik P 2016): Added ROB ineffective area, elev. based on flo

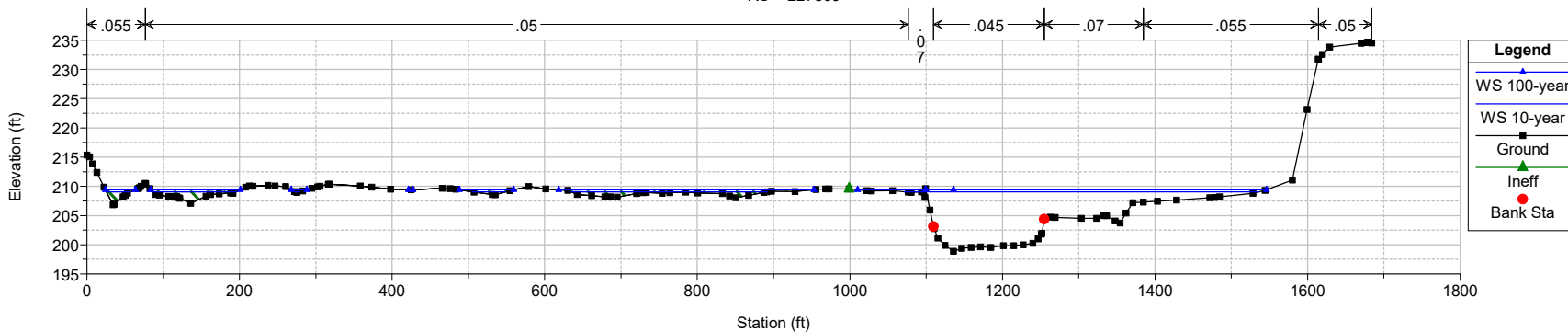




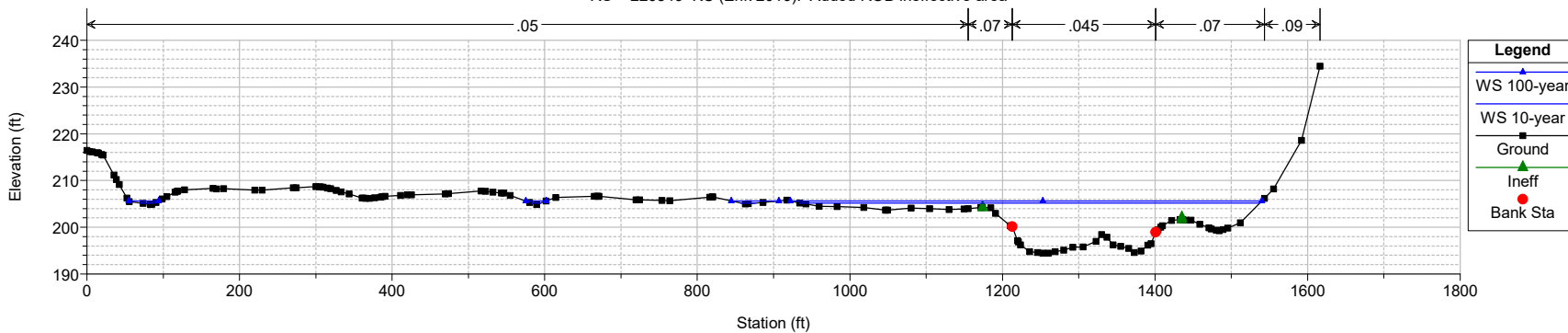
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RS = 229141



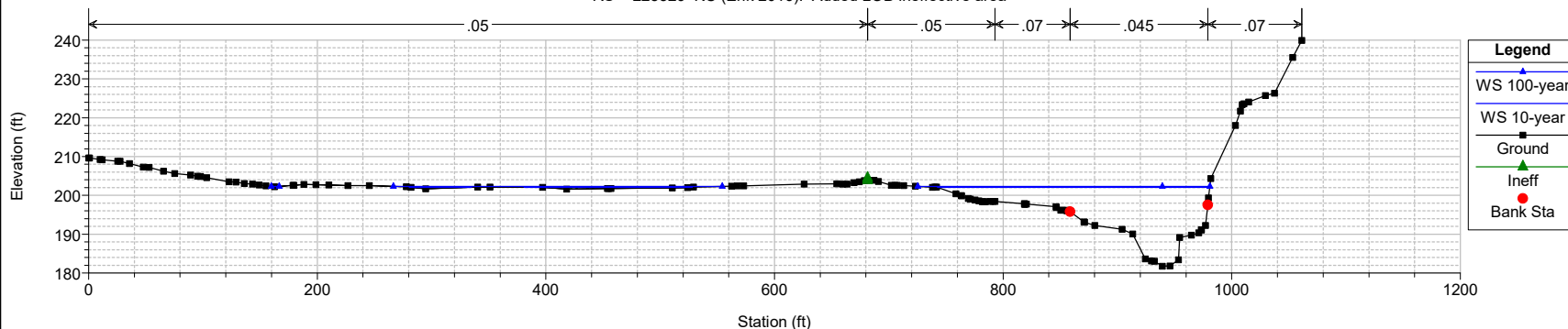
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RS = 227869



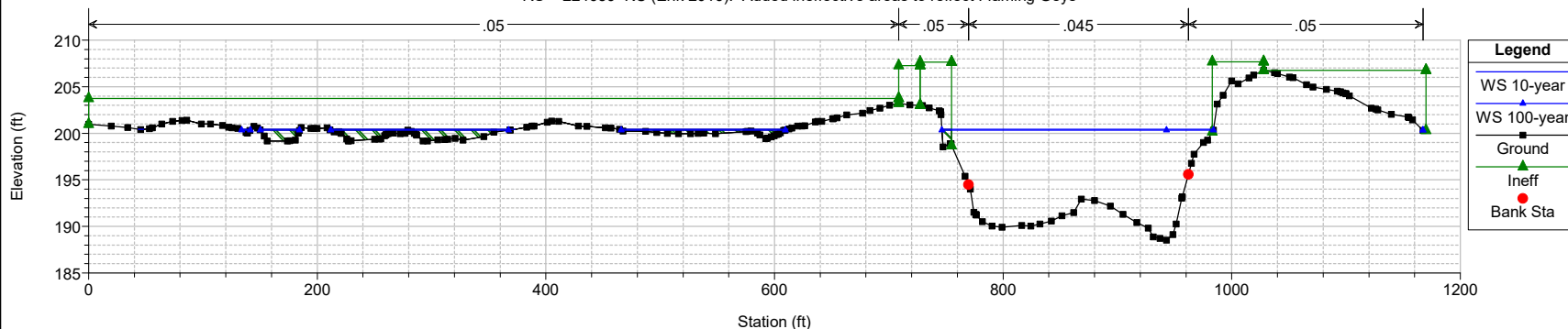
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 226549 KC (Erik 2016): Added ROB ineffective area



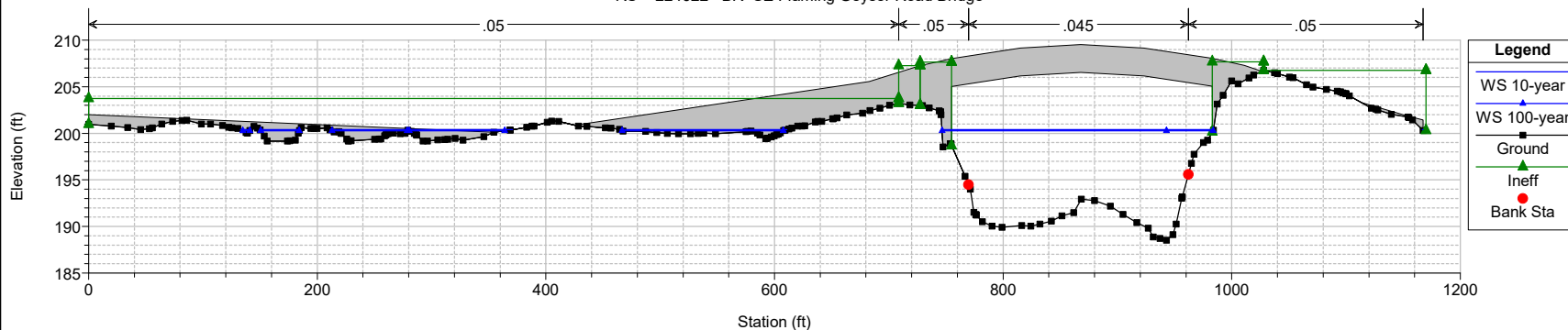
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 225329 KC (Erik 2016): Added LOB ineffective area

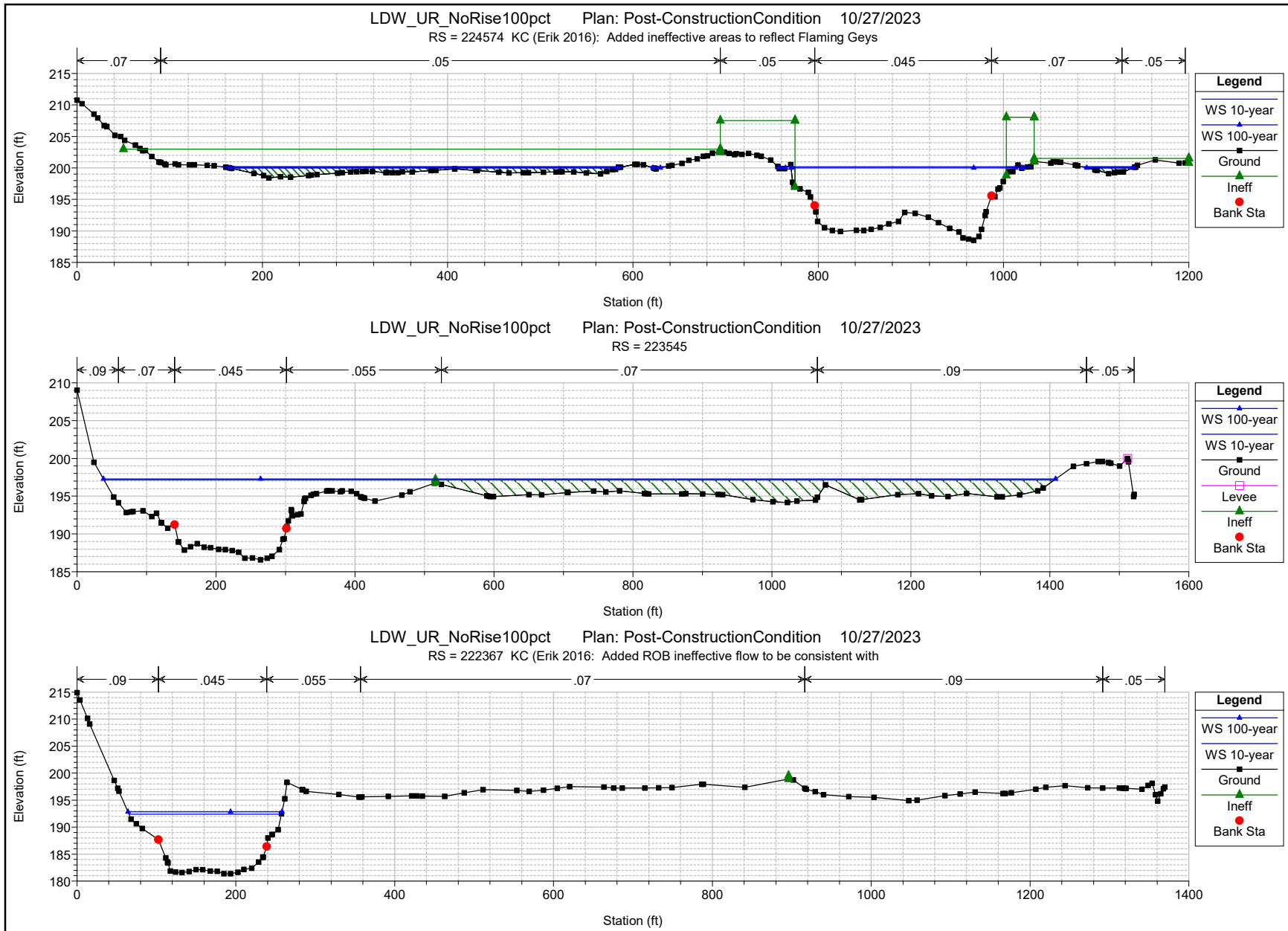


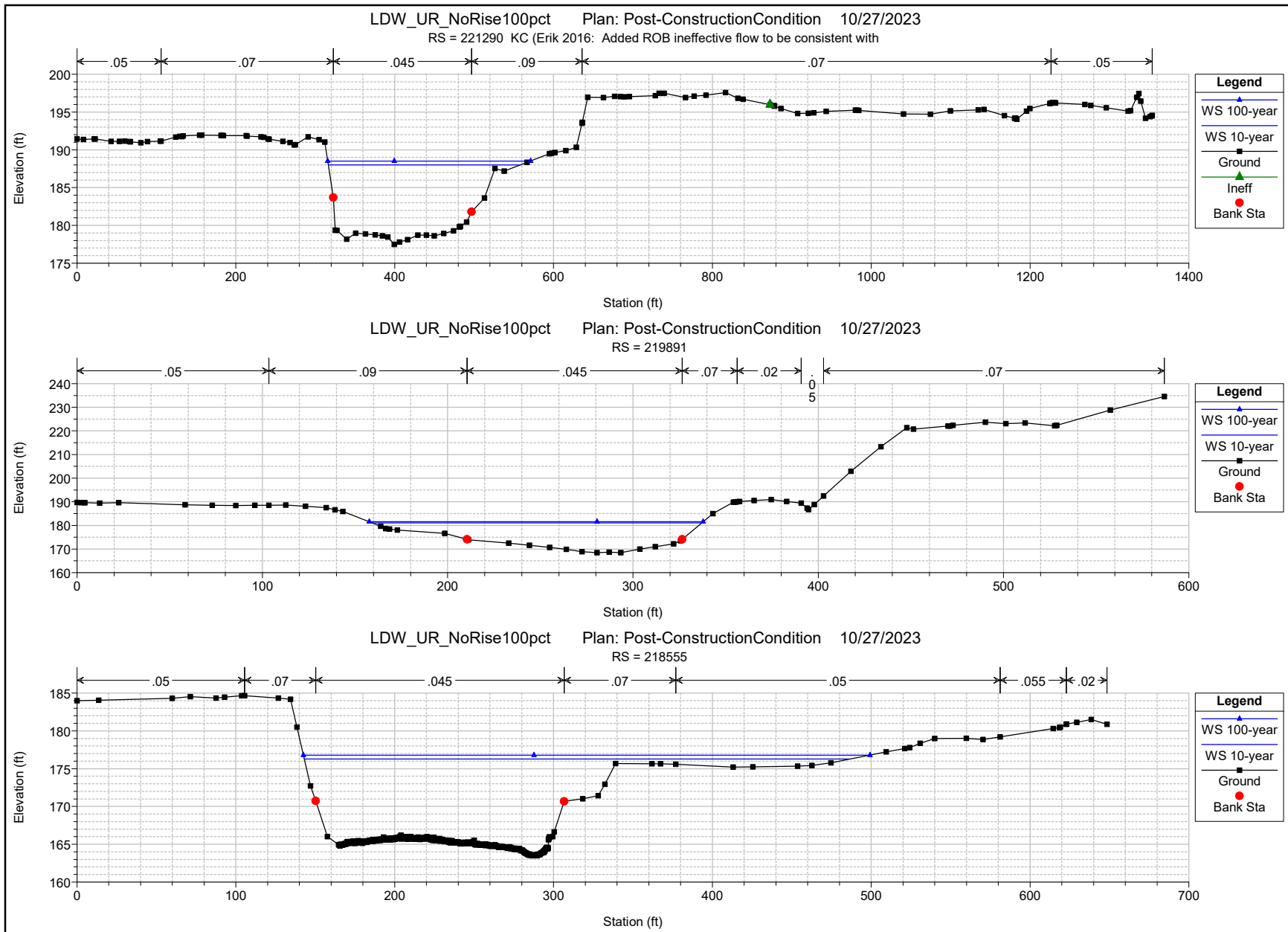
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 224659 KC (Erik 2016): Added ineffective areas to reflect Flaming Geys

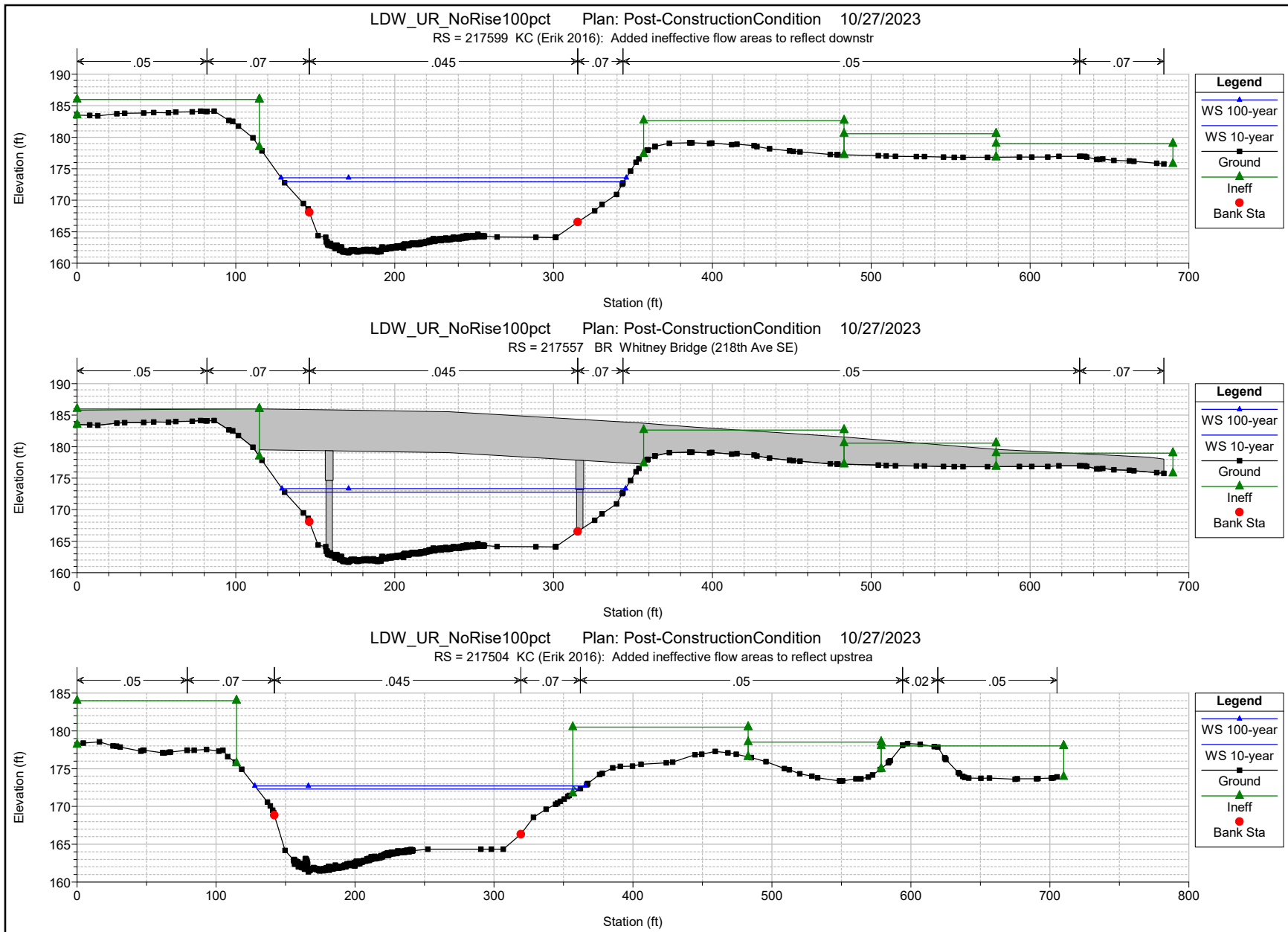


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 224622 BR SE Flaming Geyser Road Bridge

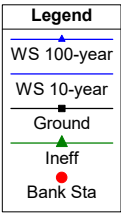
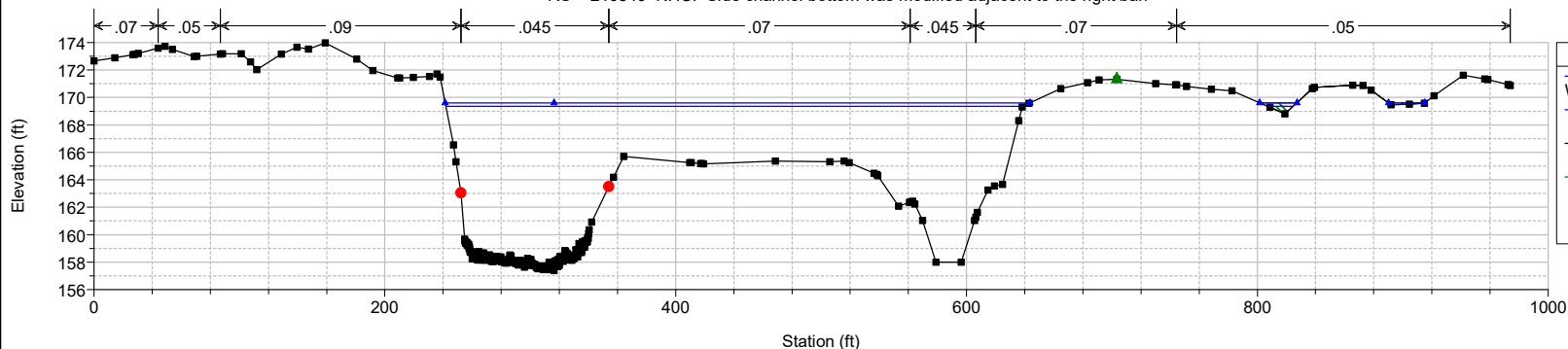




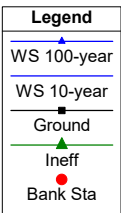
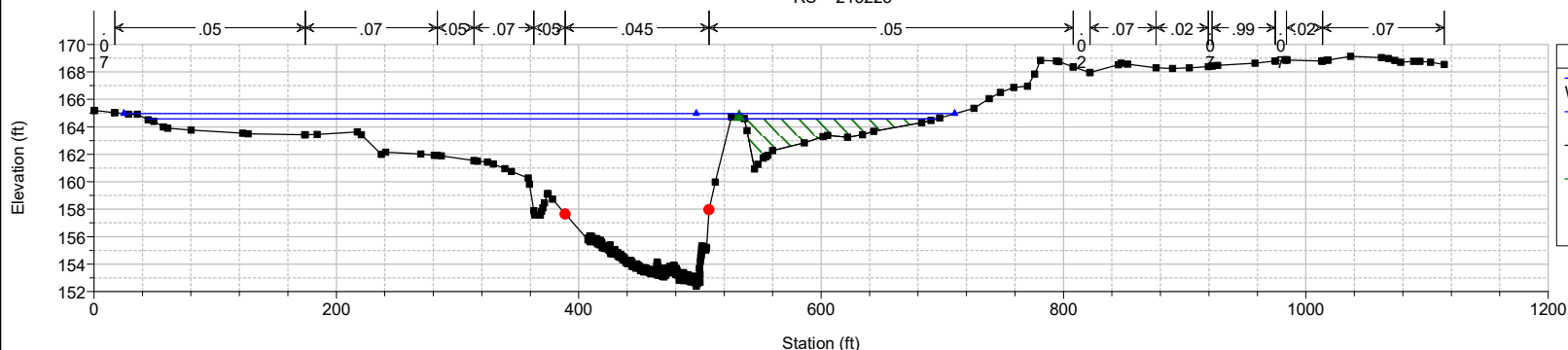




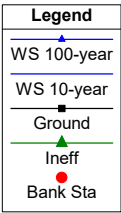
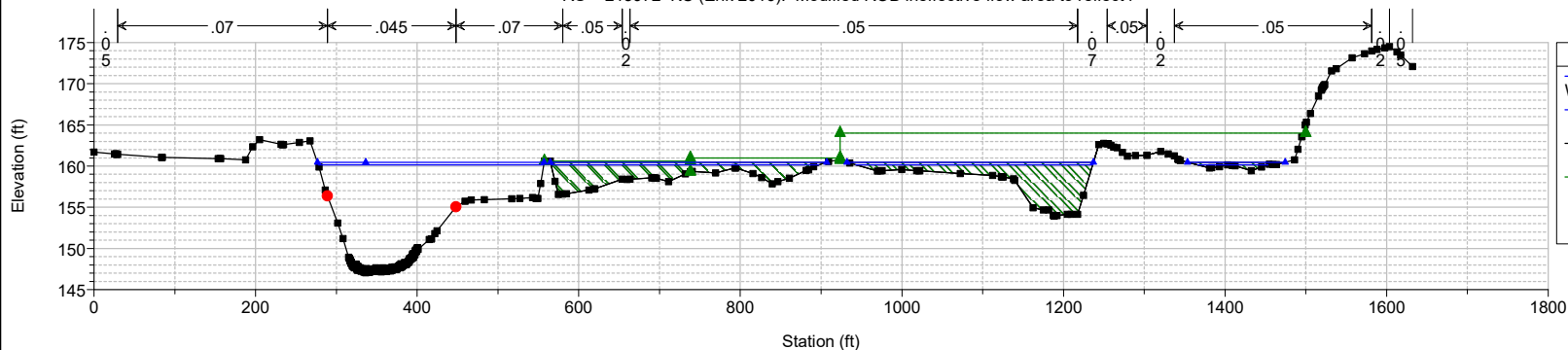
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 216549 NHC: Side channel bottom was modified adjacent to the right ban

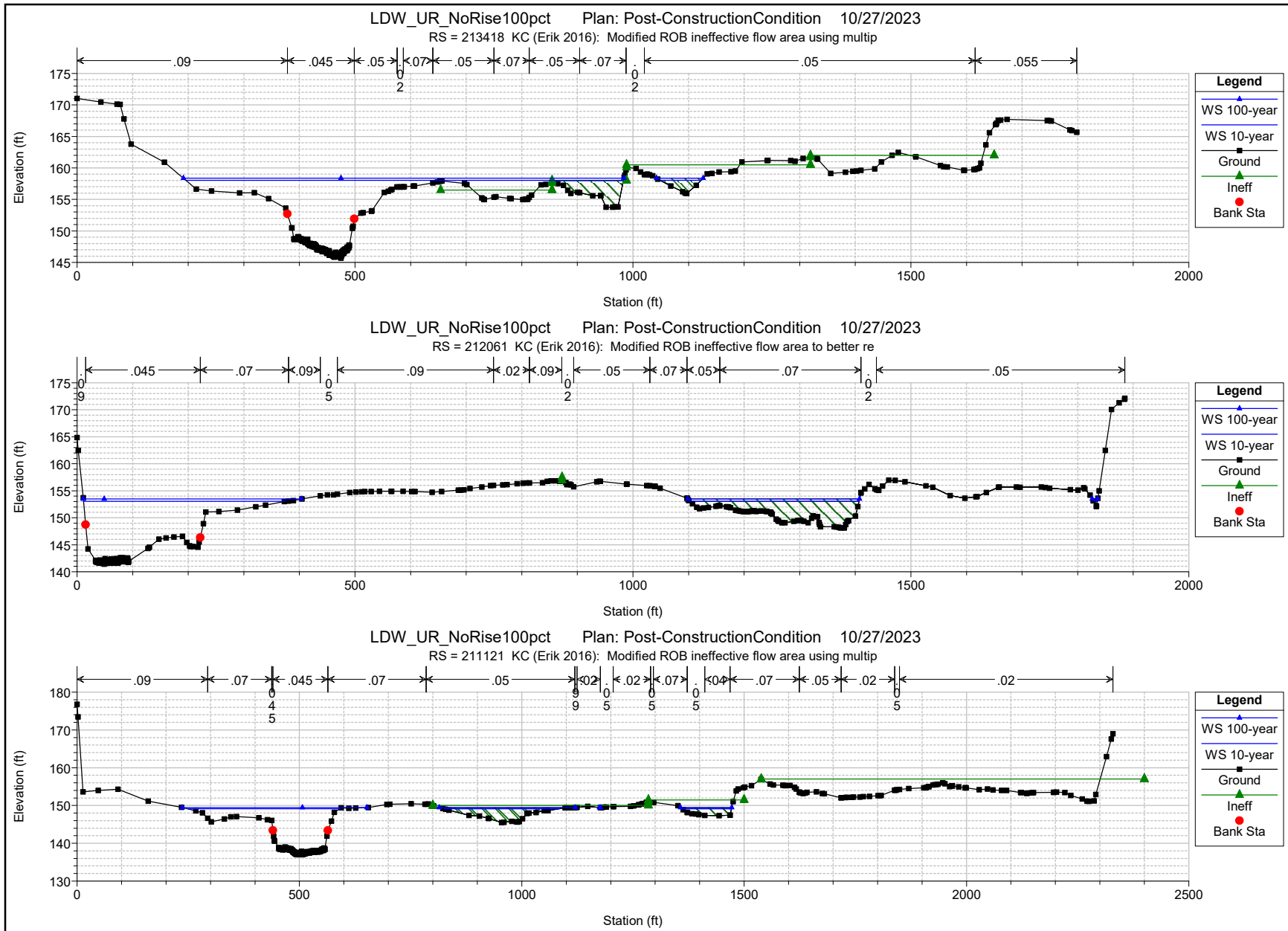


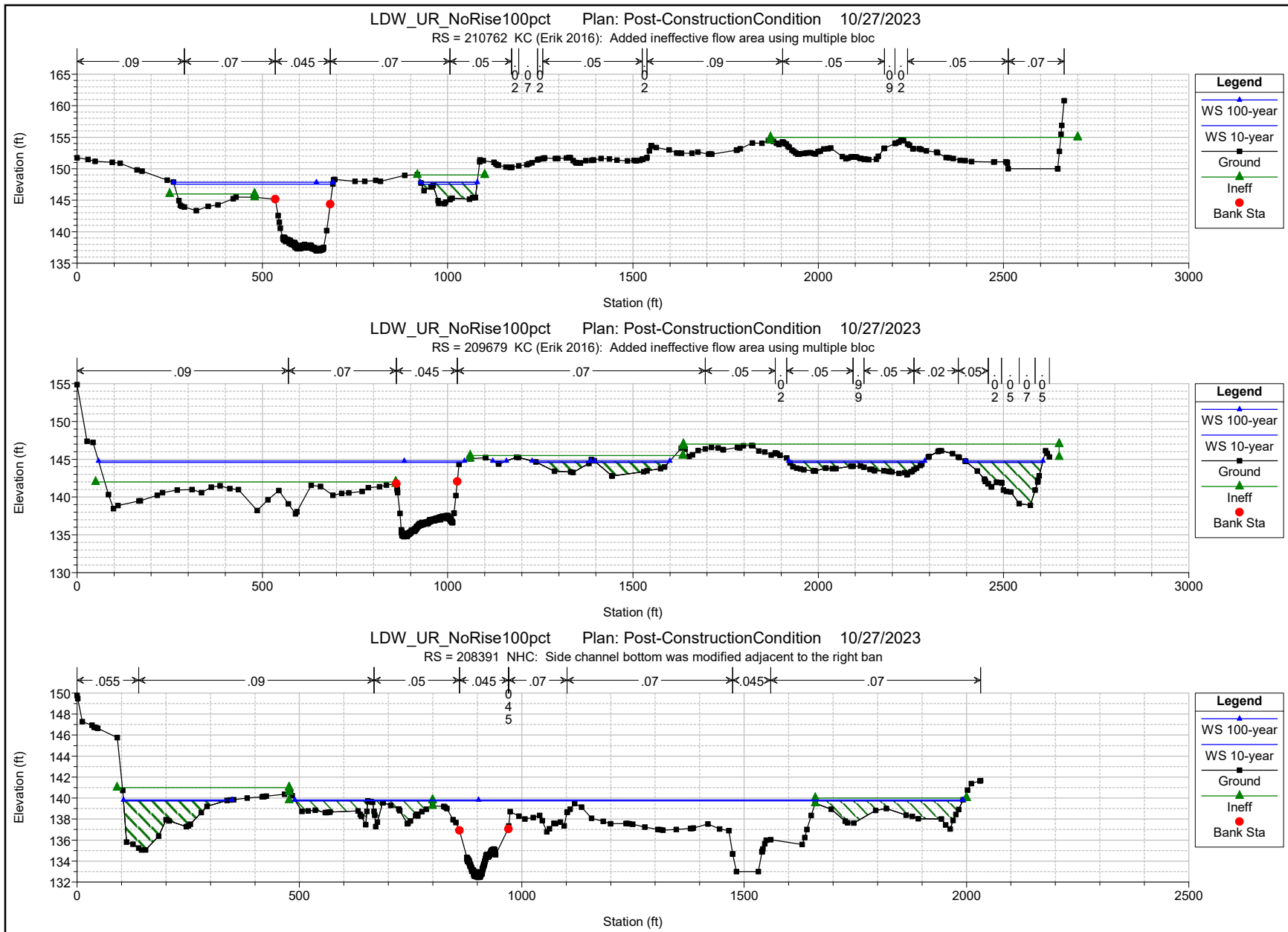
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 215223



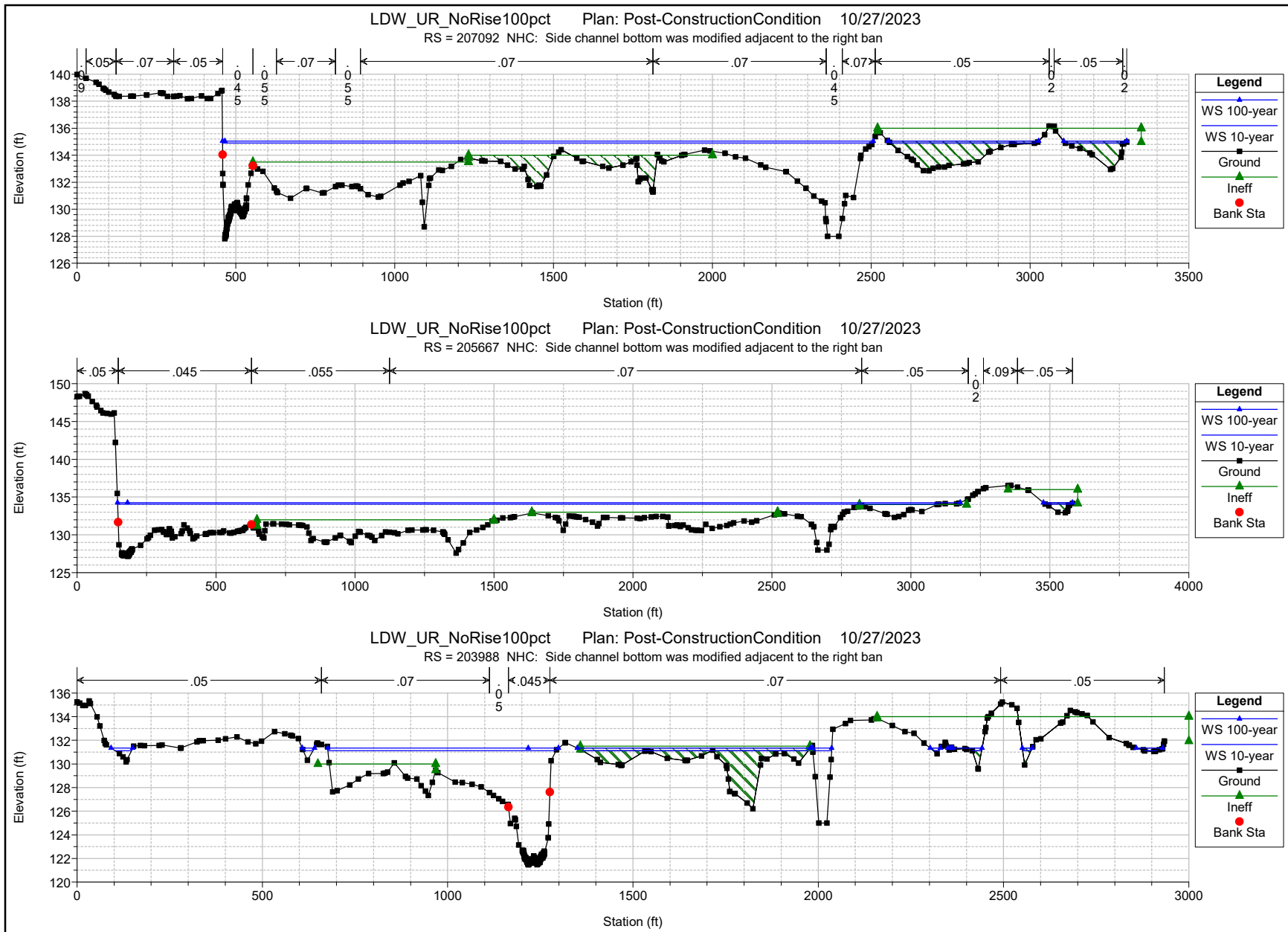
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 213972 KC (Erik 2016): Modified ROB ineffective flow area to reflect I

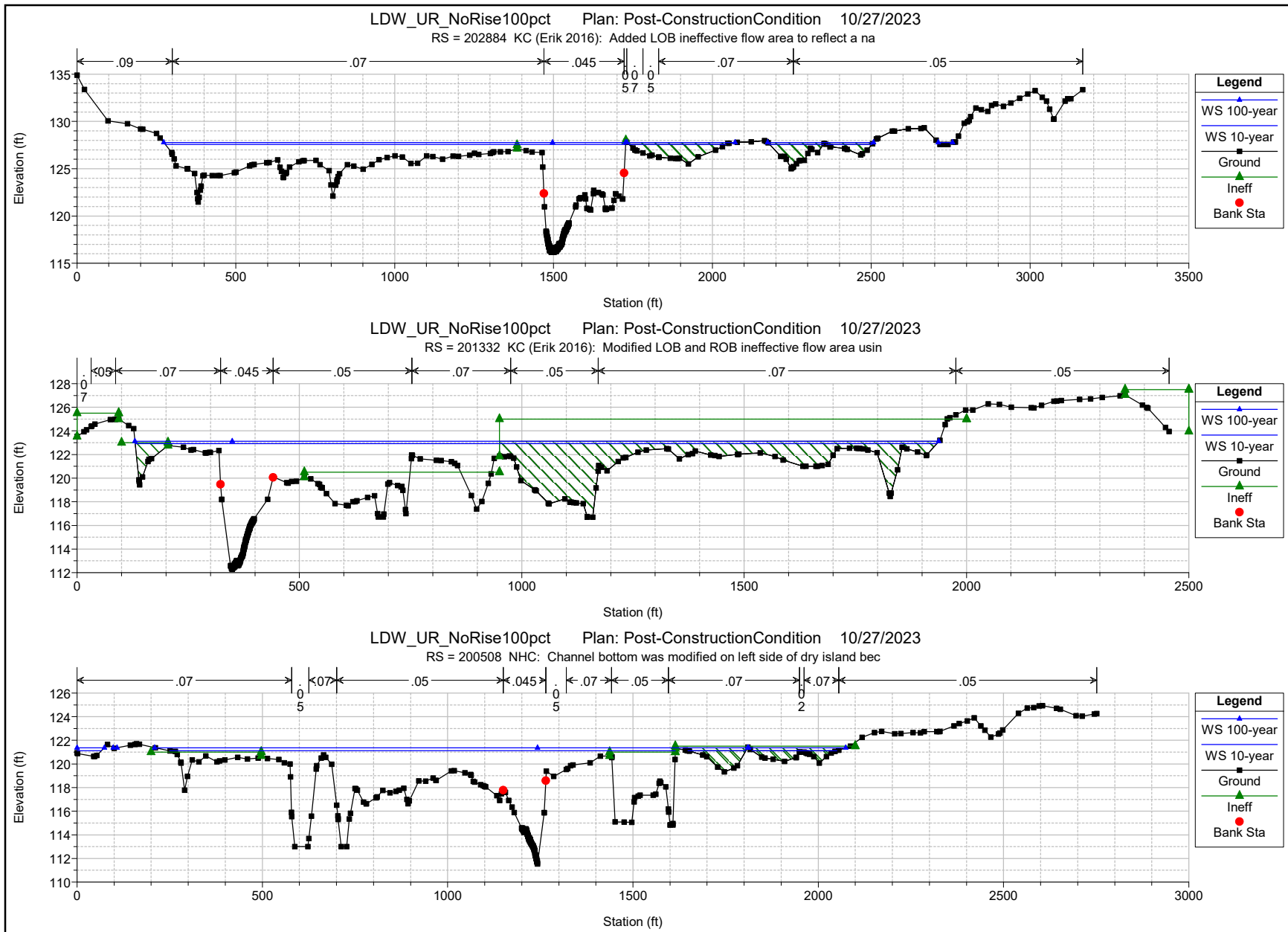


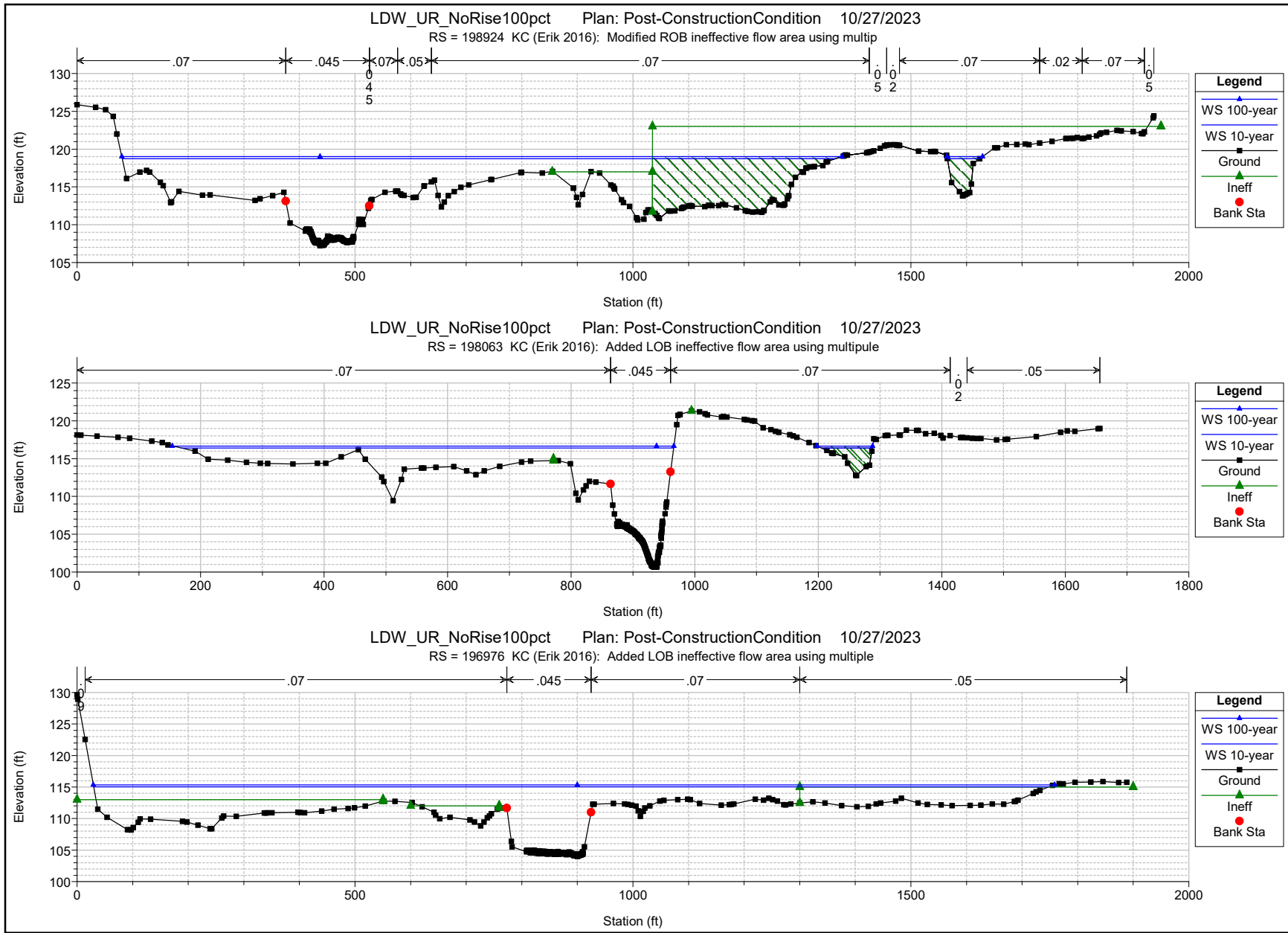




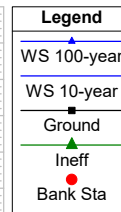
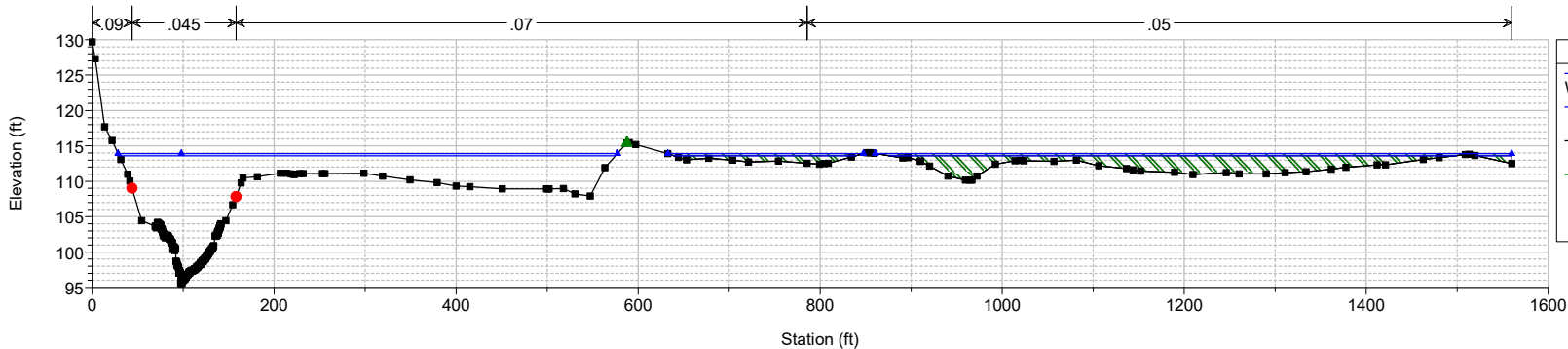




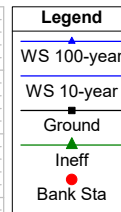
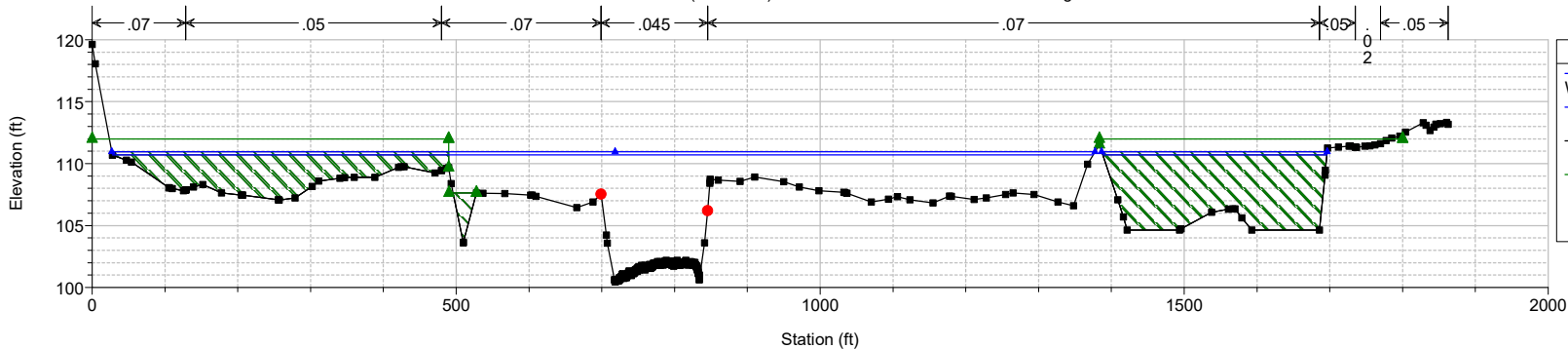




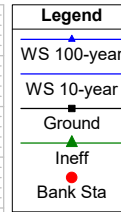
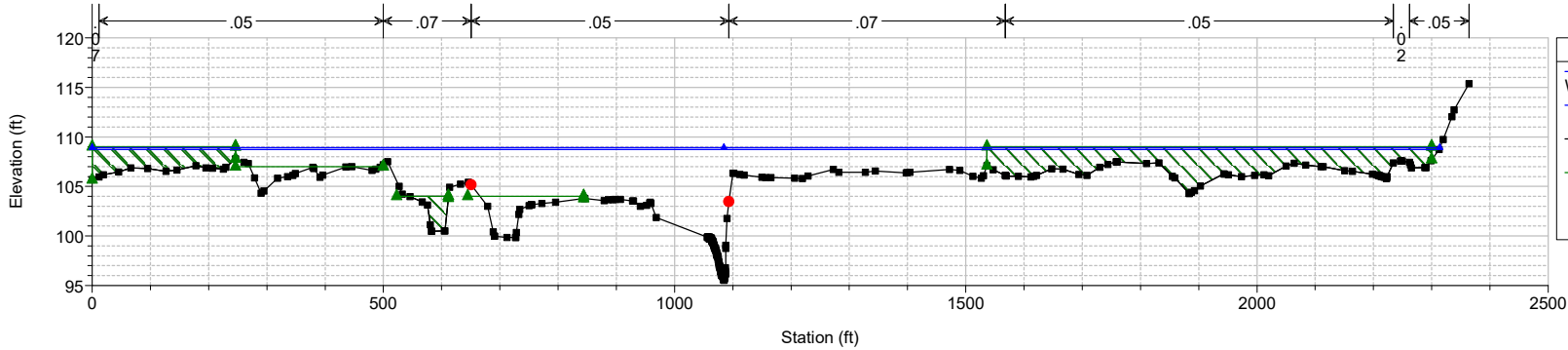
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 196242



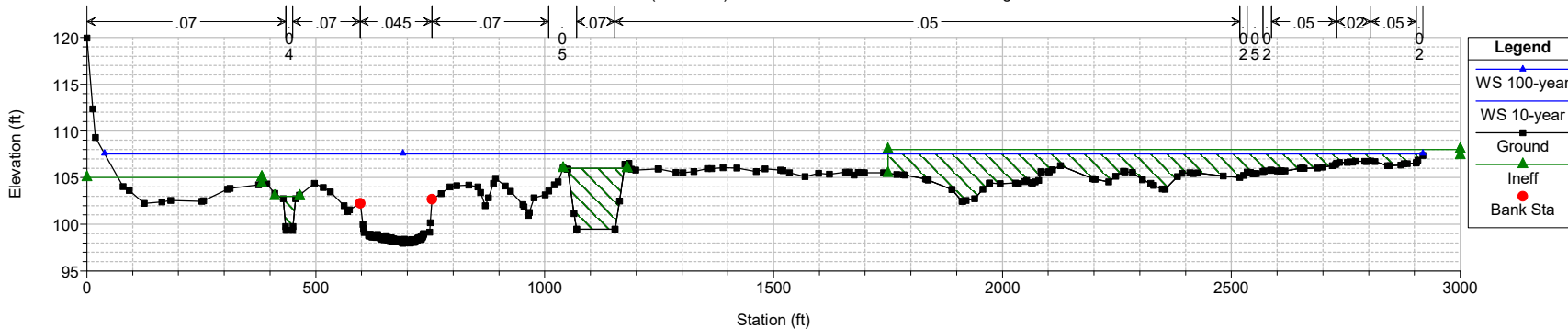
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 195101 KC (Erik 2016): Added LOB ineffective flow area using multi blo



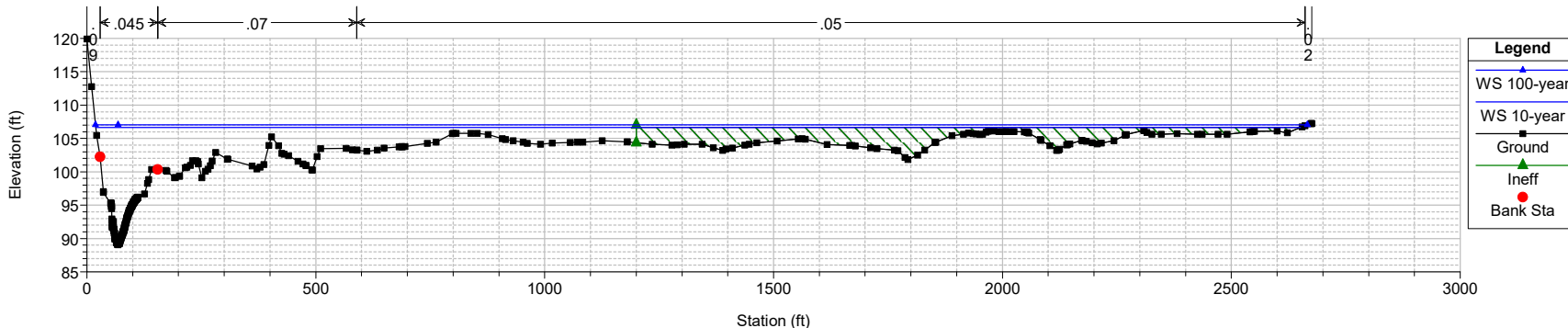
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 193966 KC (Erik 2016): Added LOB ineffective flow area using multi blo



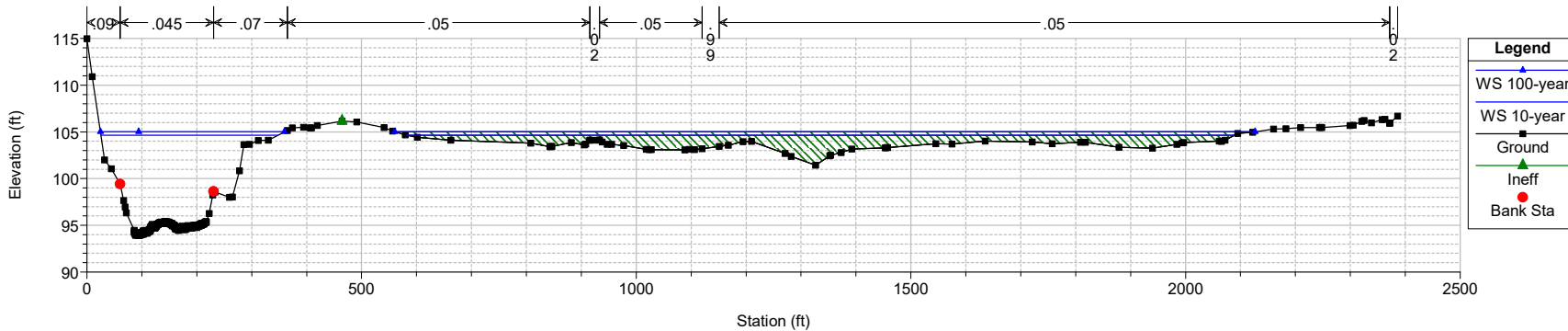
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 192952 KC (Erik 2016): Added LOB ineffective flow area using multi blo

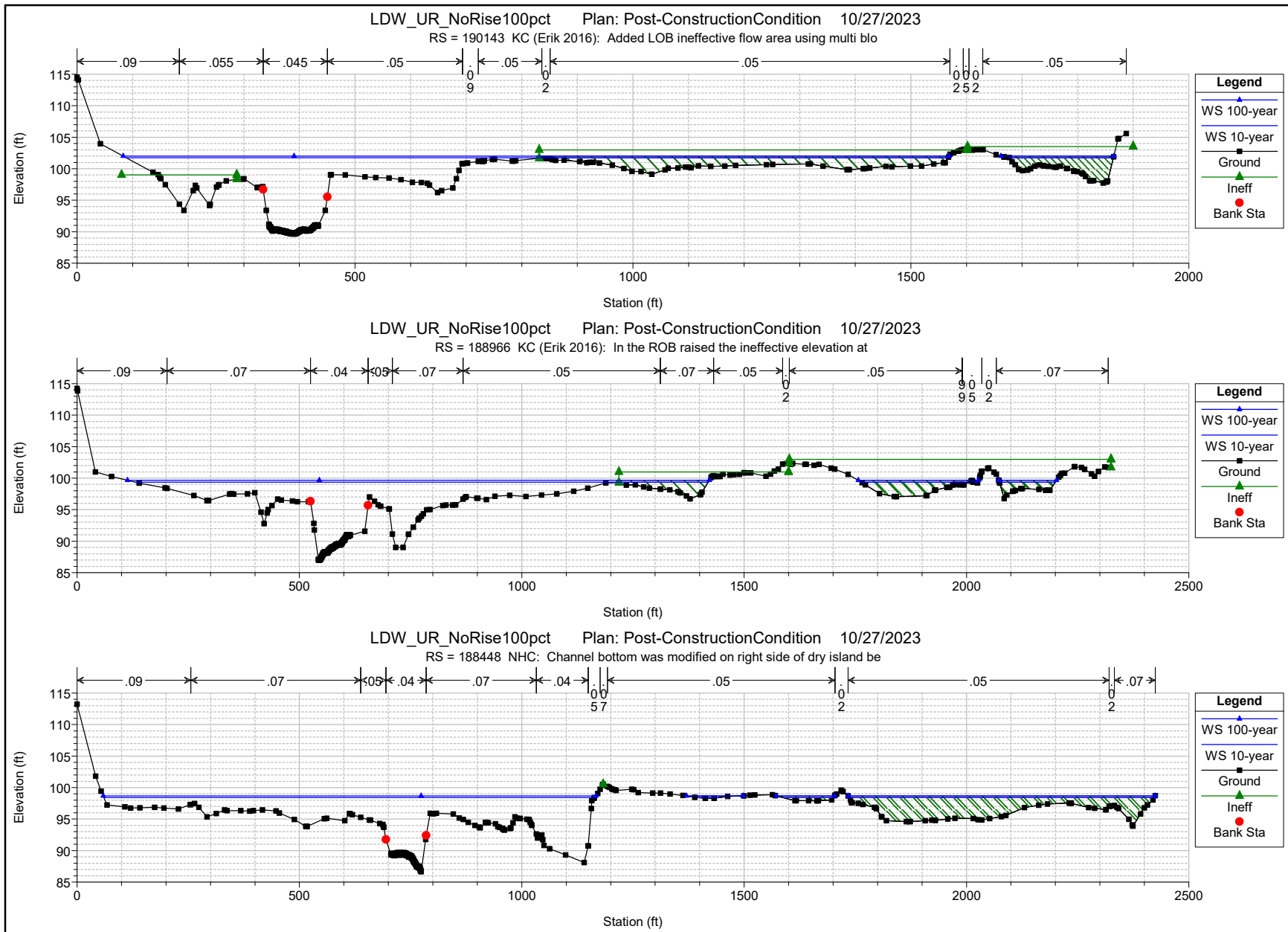


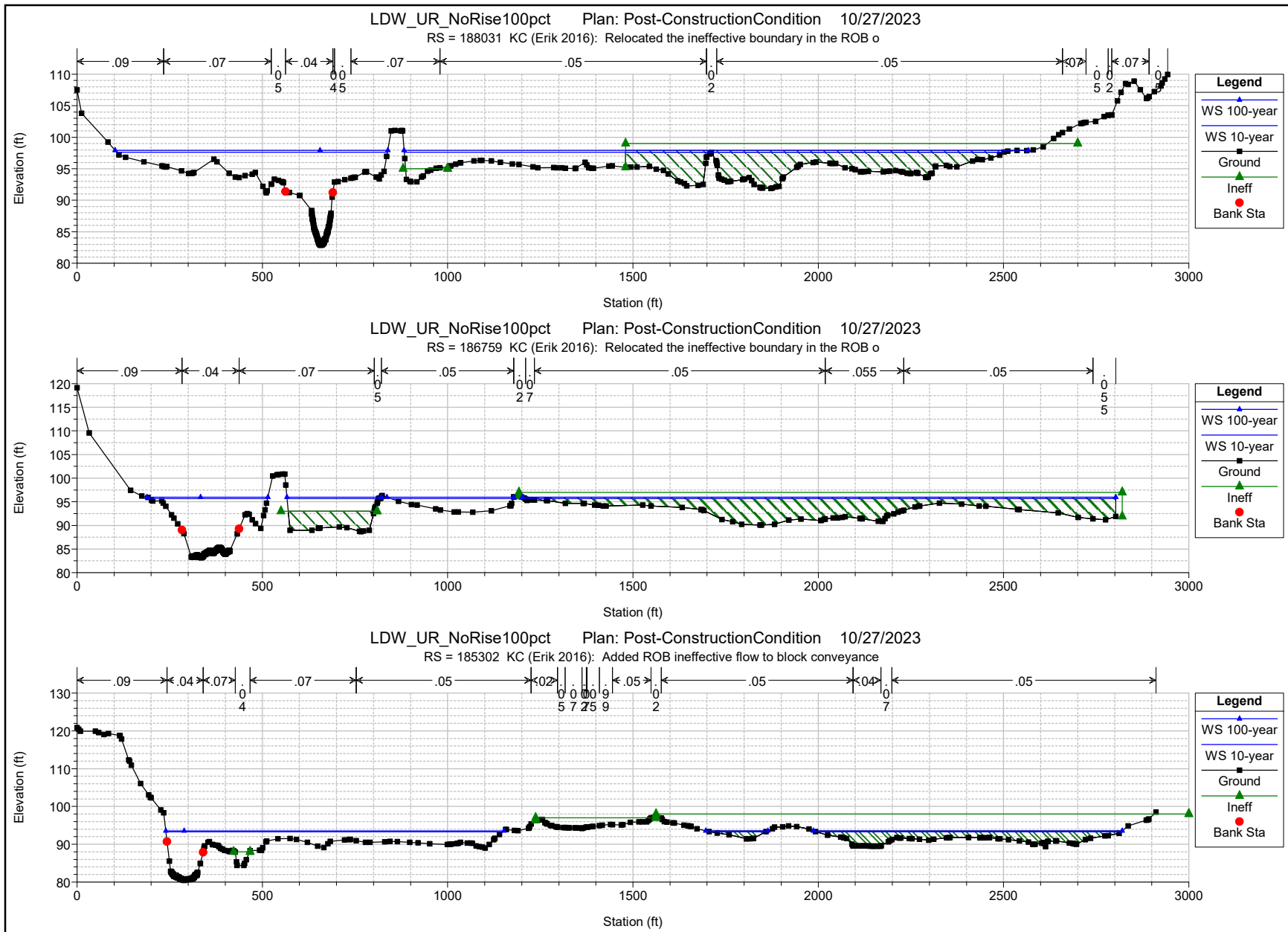
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 192134

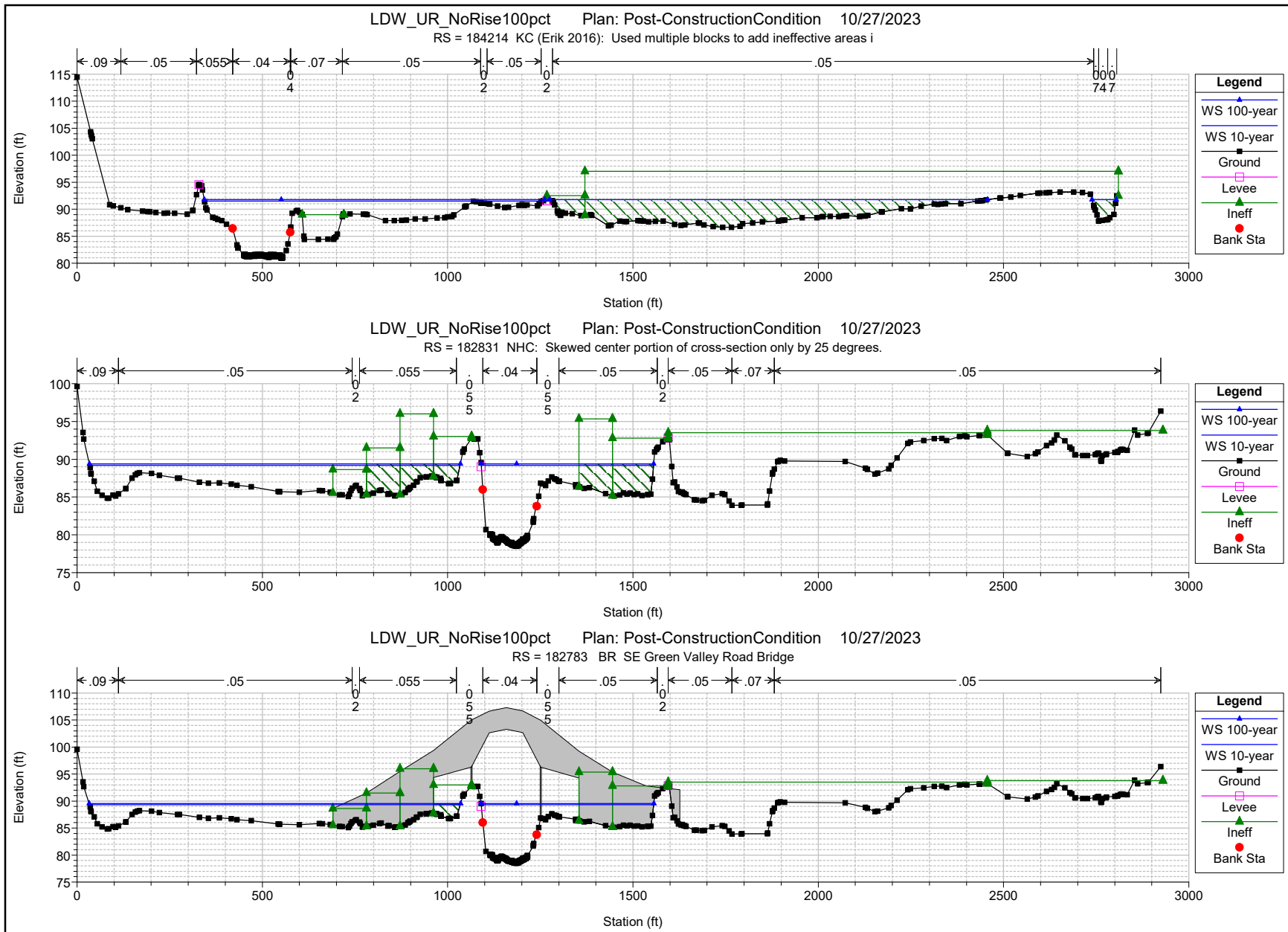


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 191358

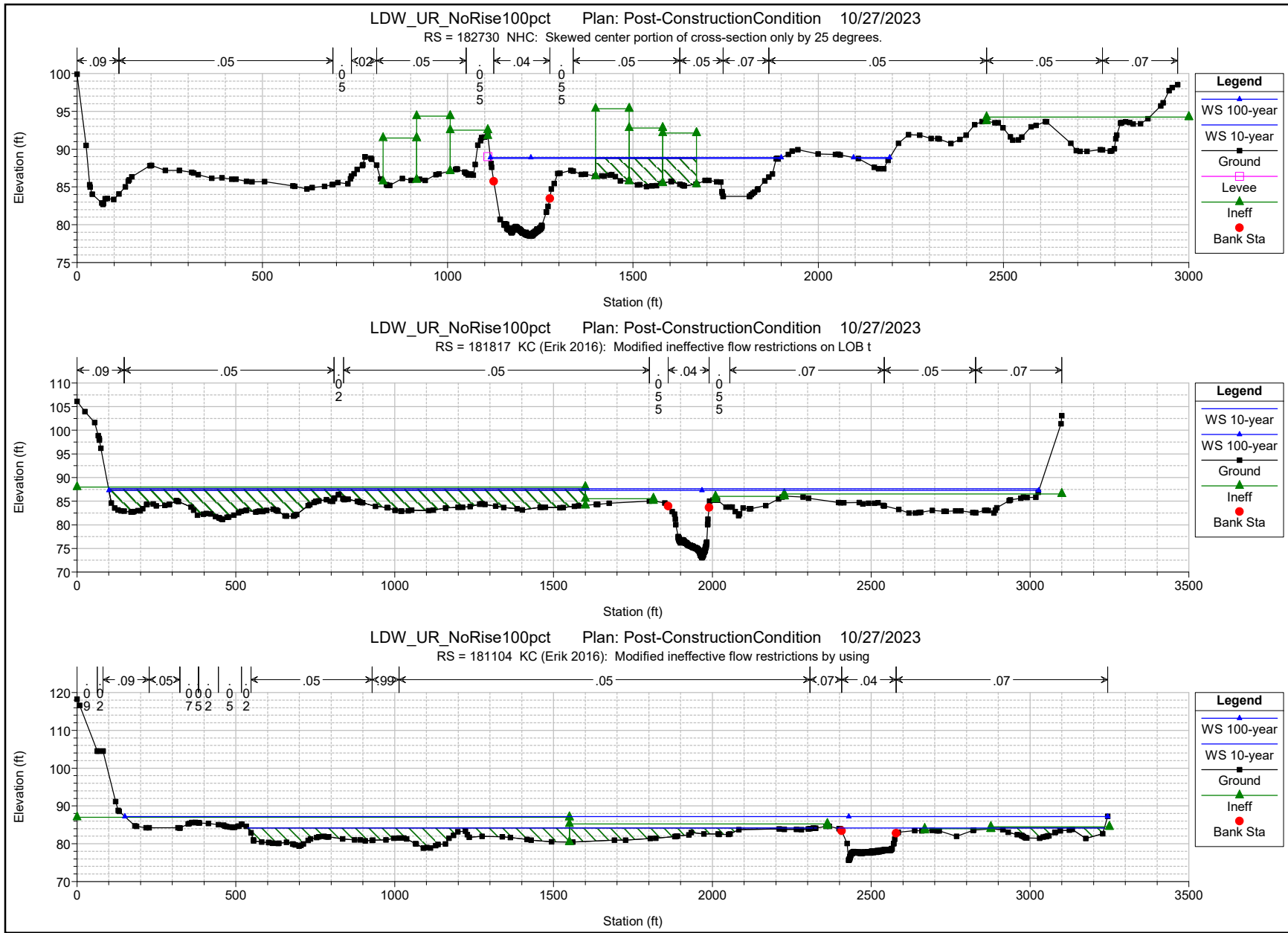




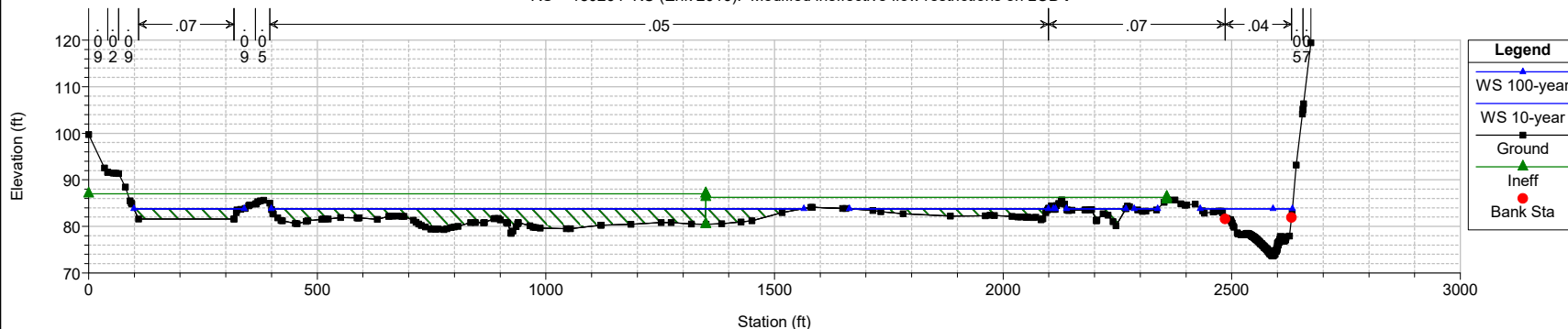




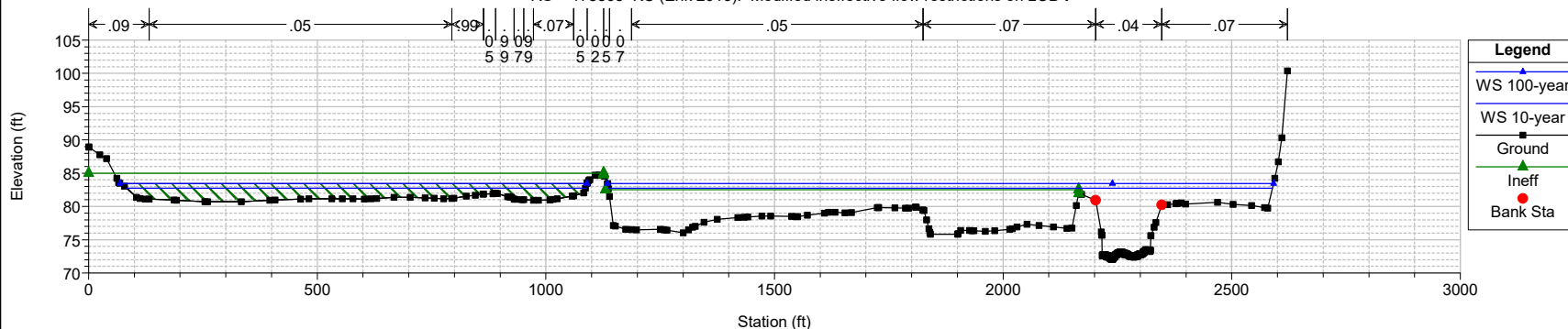




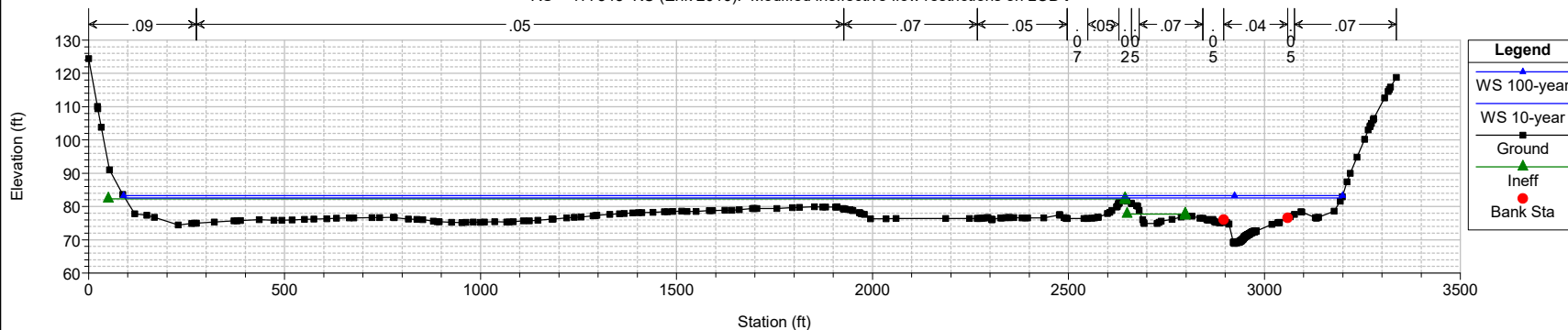
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 180264 KC (Erik 2016): Modified ineffective flow restrictions on LOB t

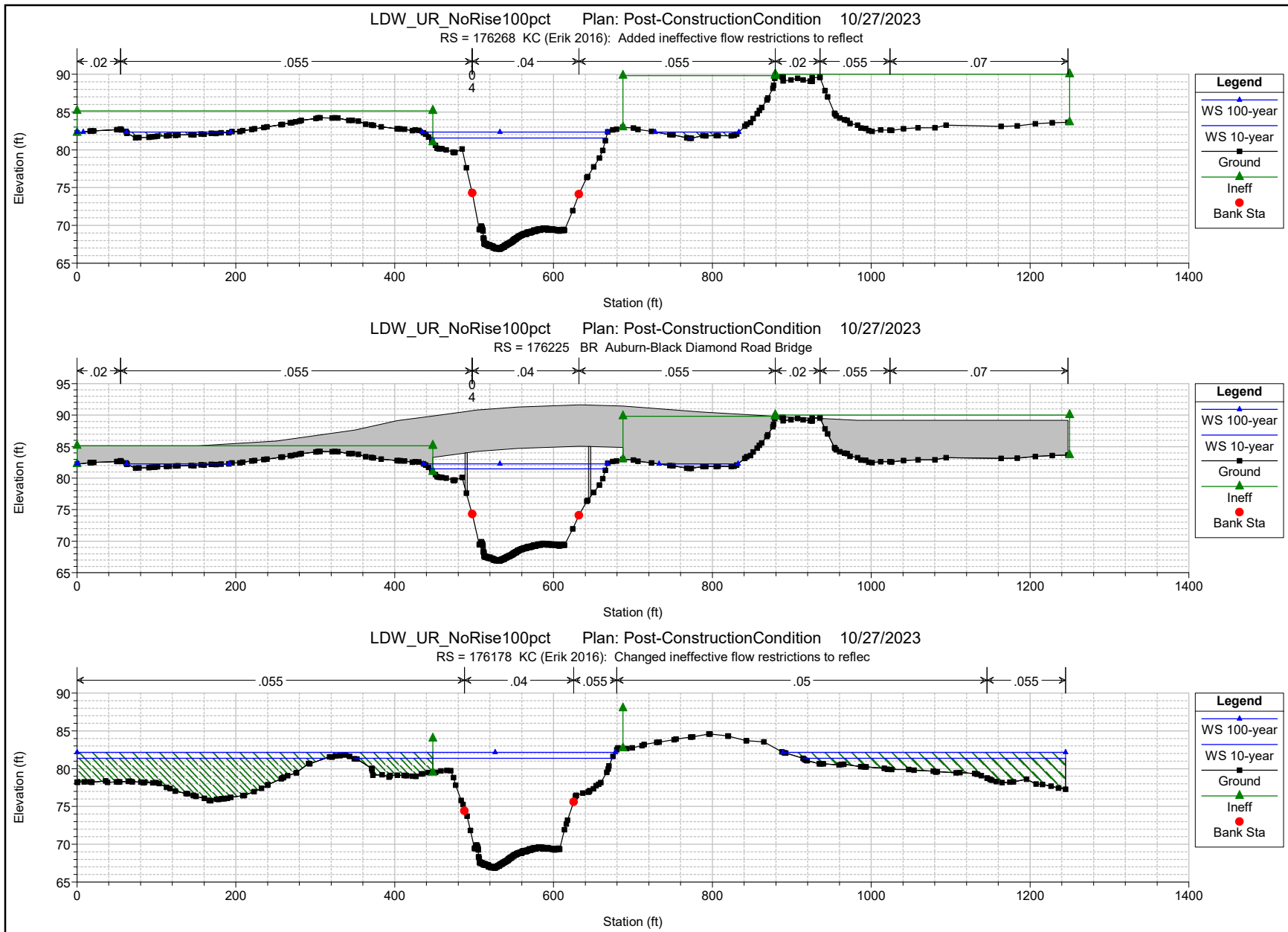


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 178865 KC (Erik 2016): Modified ineffective flow restrictions on LOB t

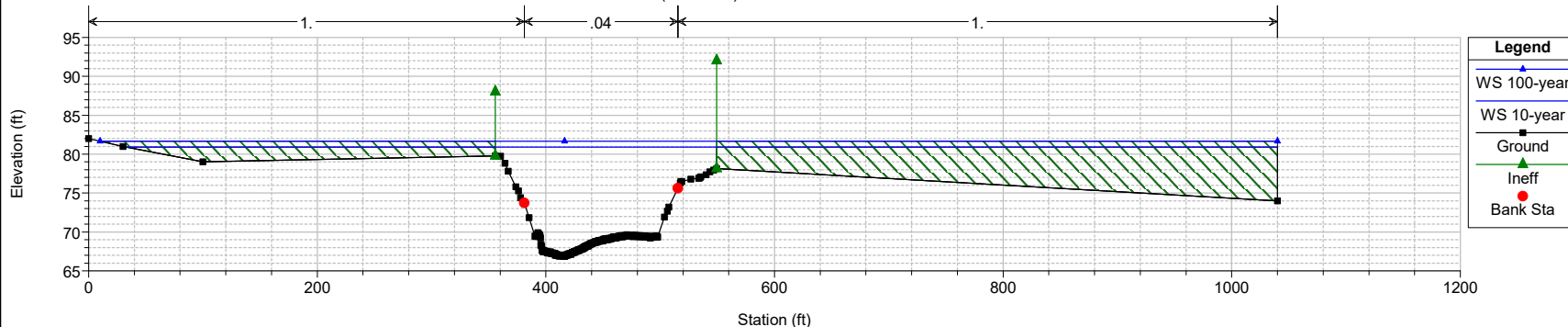


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 177545 KC (Erik 2016): Modified ineffective flow restrictions on LOB t

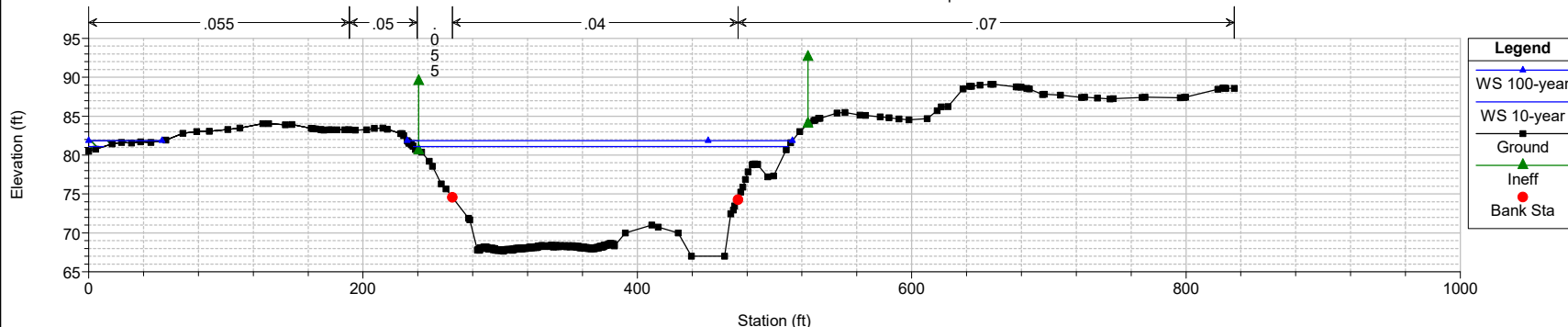




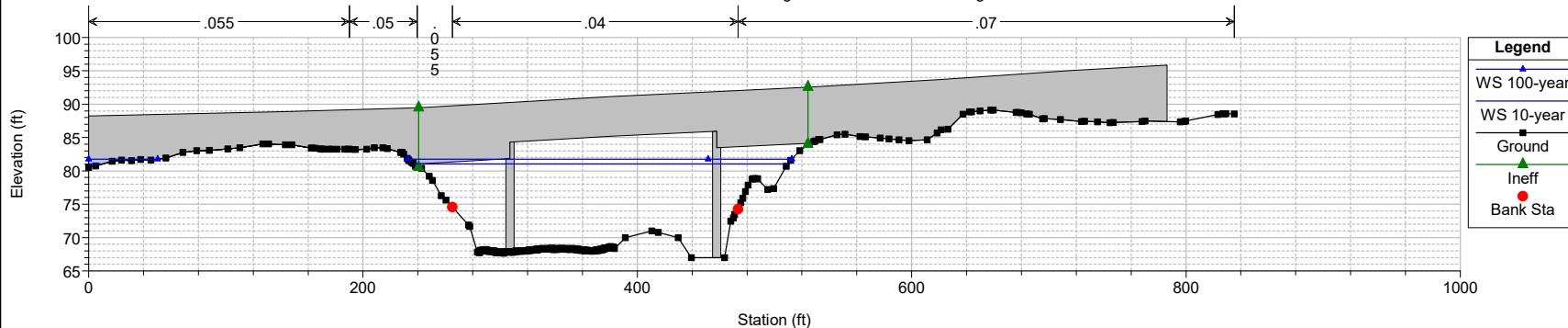
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 176056 KC (Erik 2016): Added XS in order to shift Soos Cr lateral infl

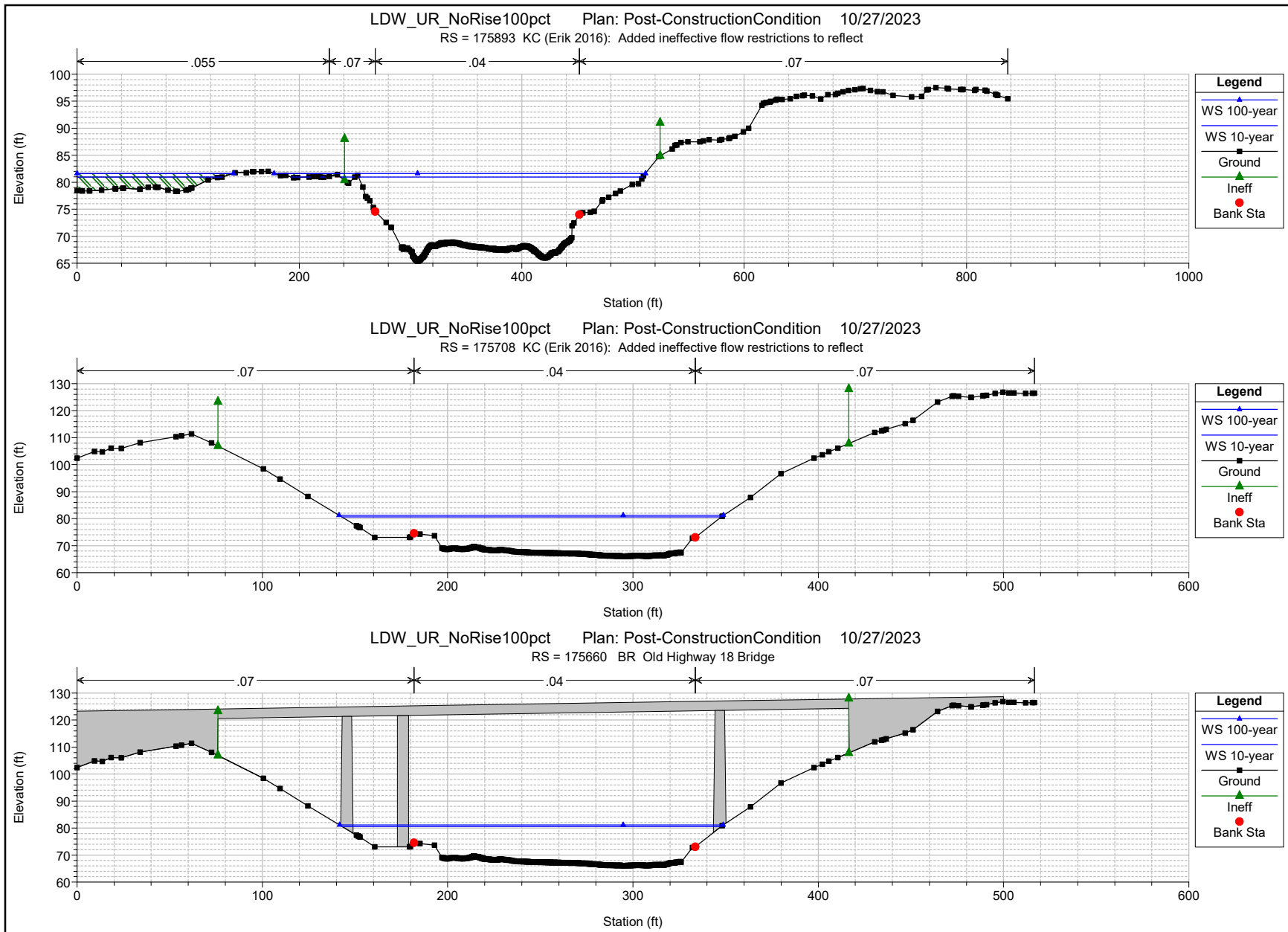


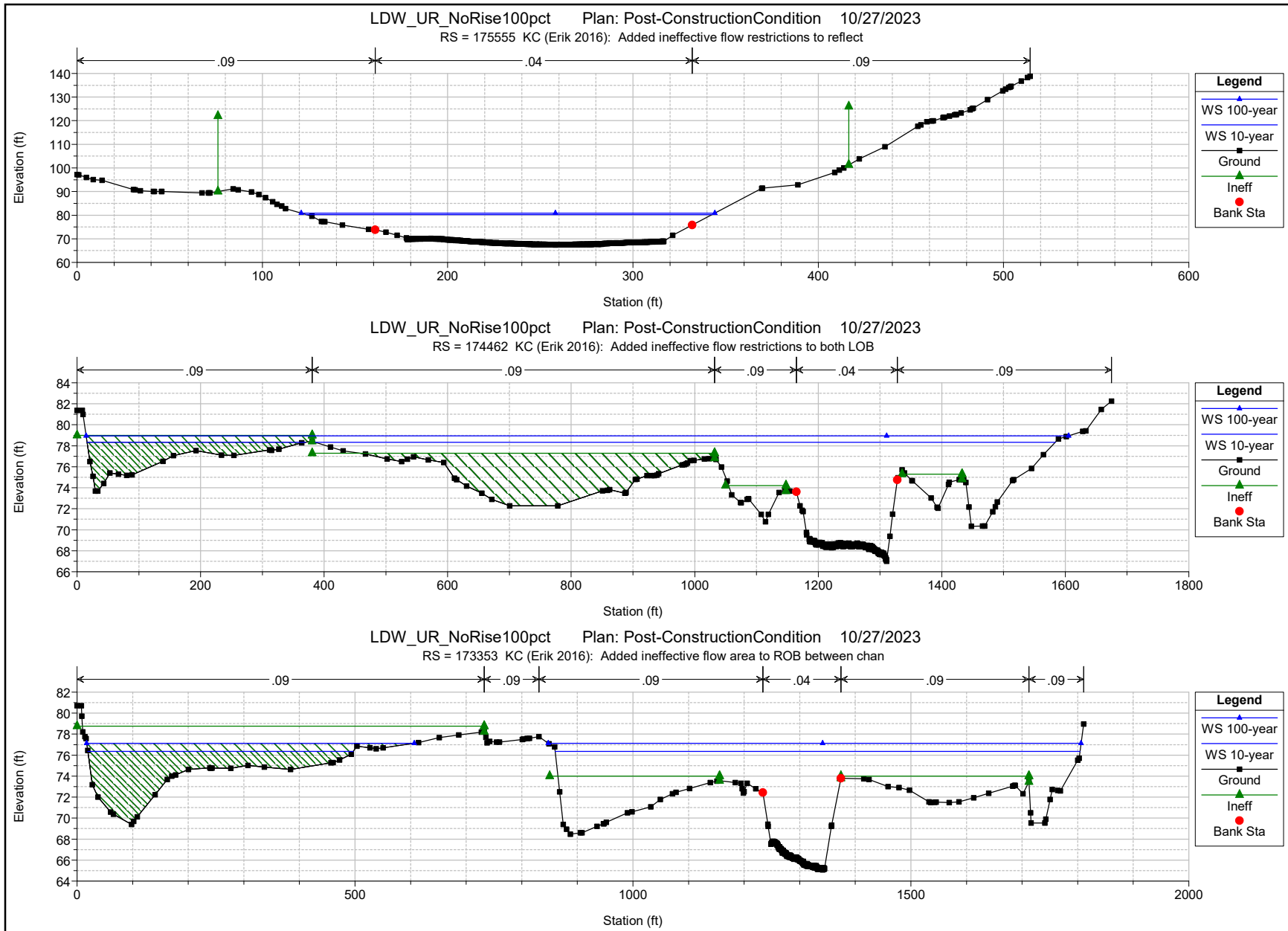
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 175940 NHC: Cross Section modified to account for separation between G

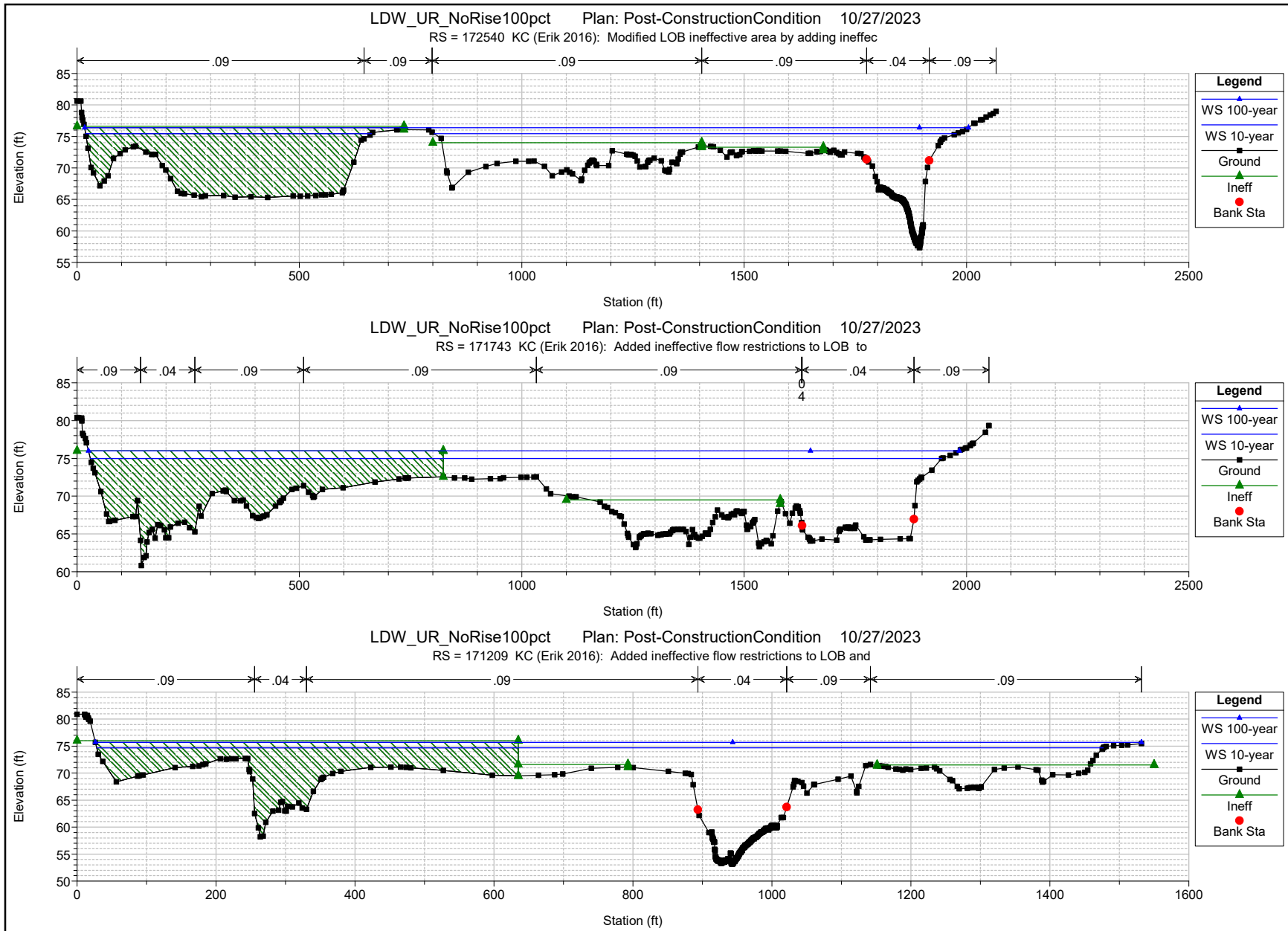


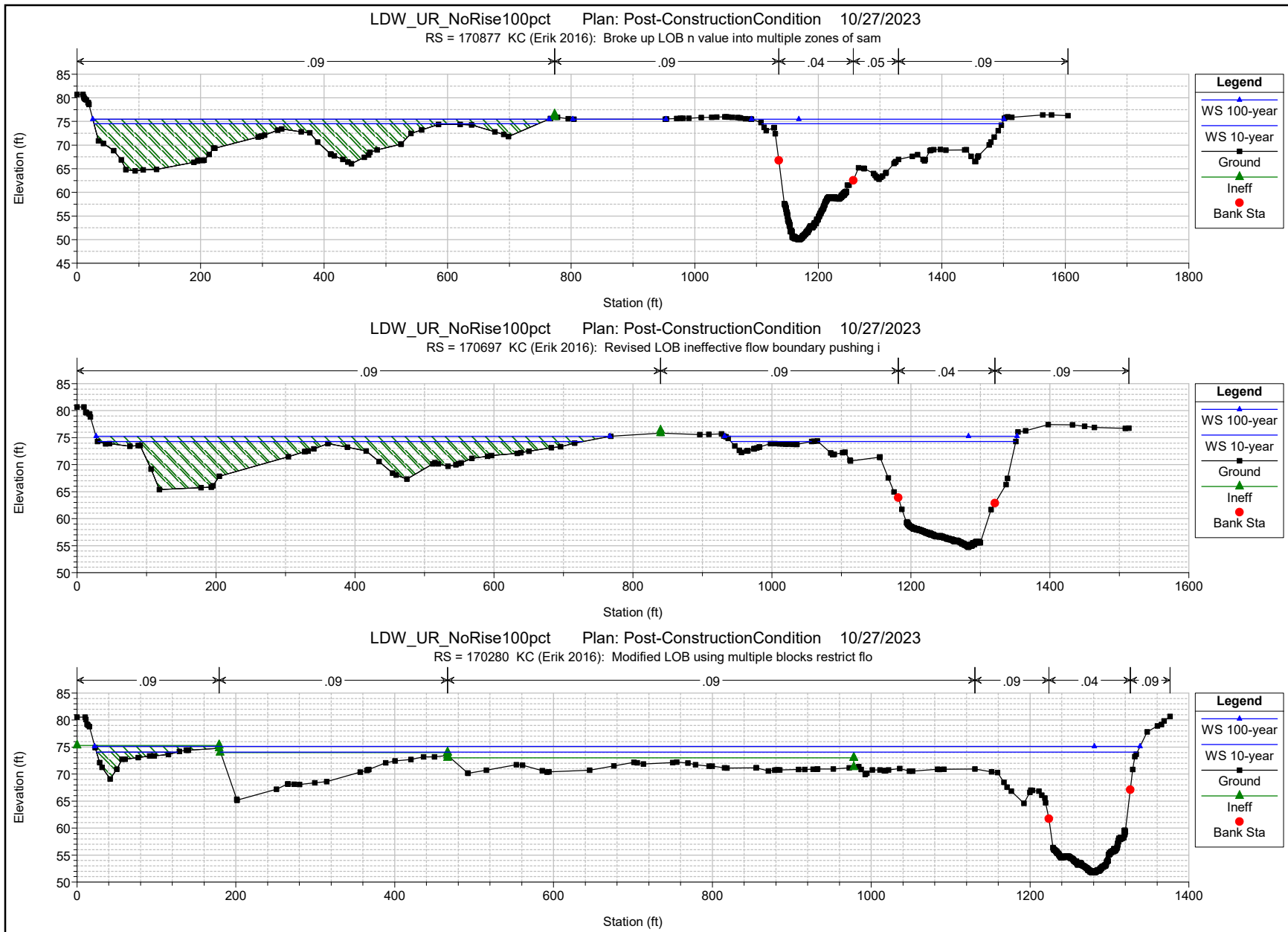
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 175919 BR Burlington Northern Railroad Bridge





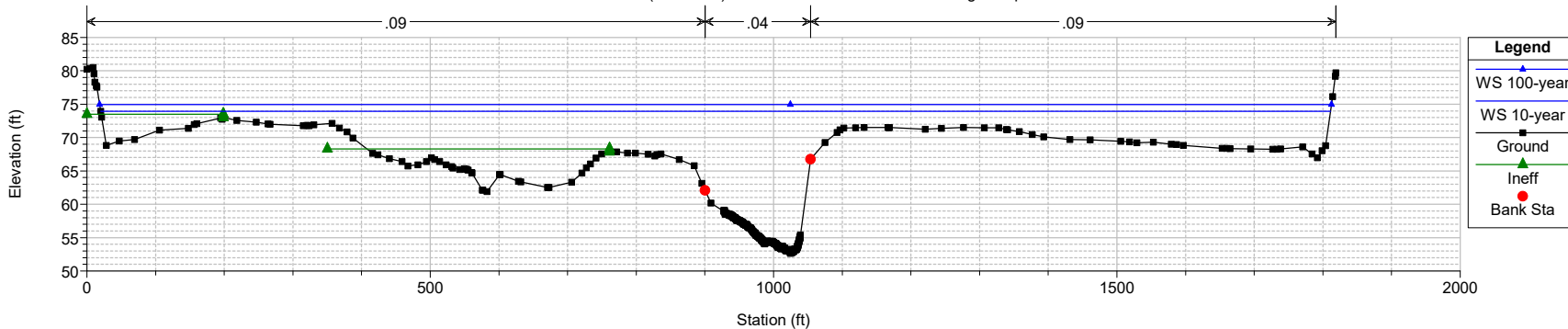




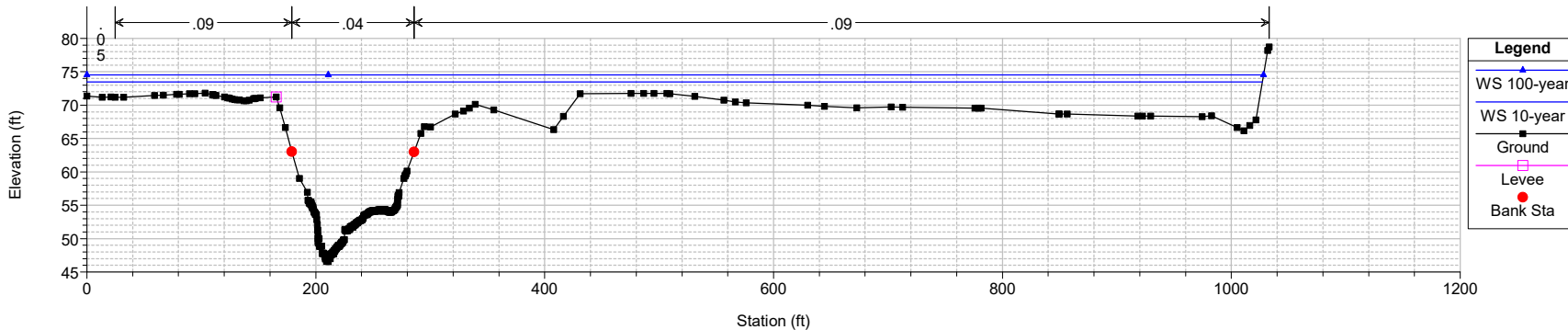




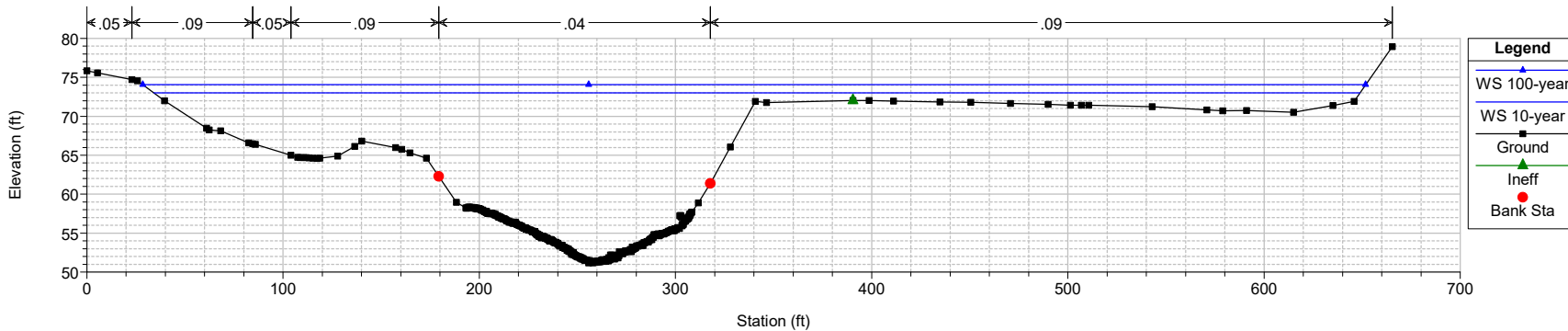
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 169351 KC (Erik 2016): Added LOB ineffective area using multiple block

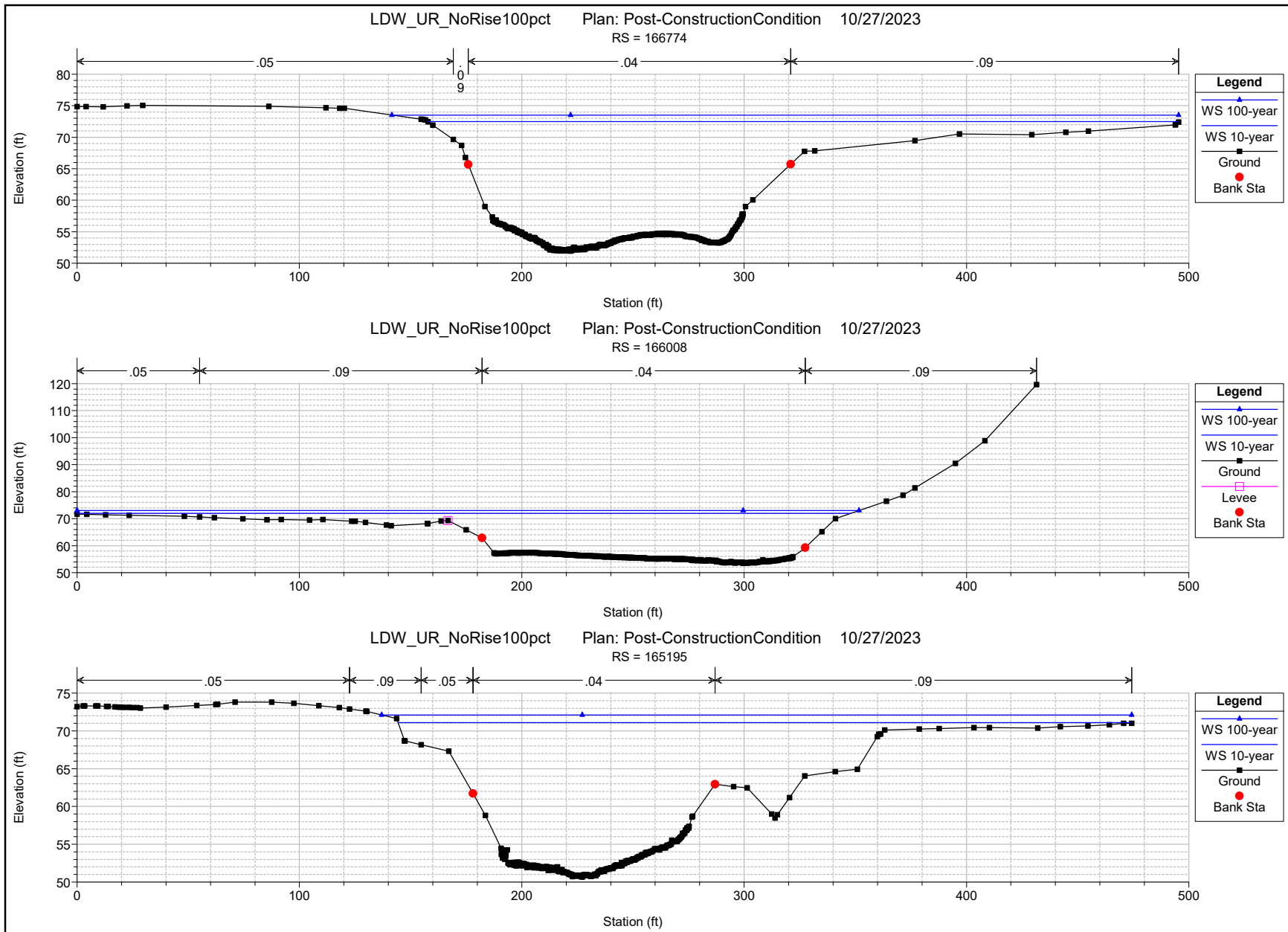


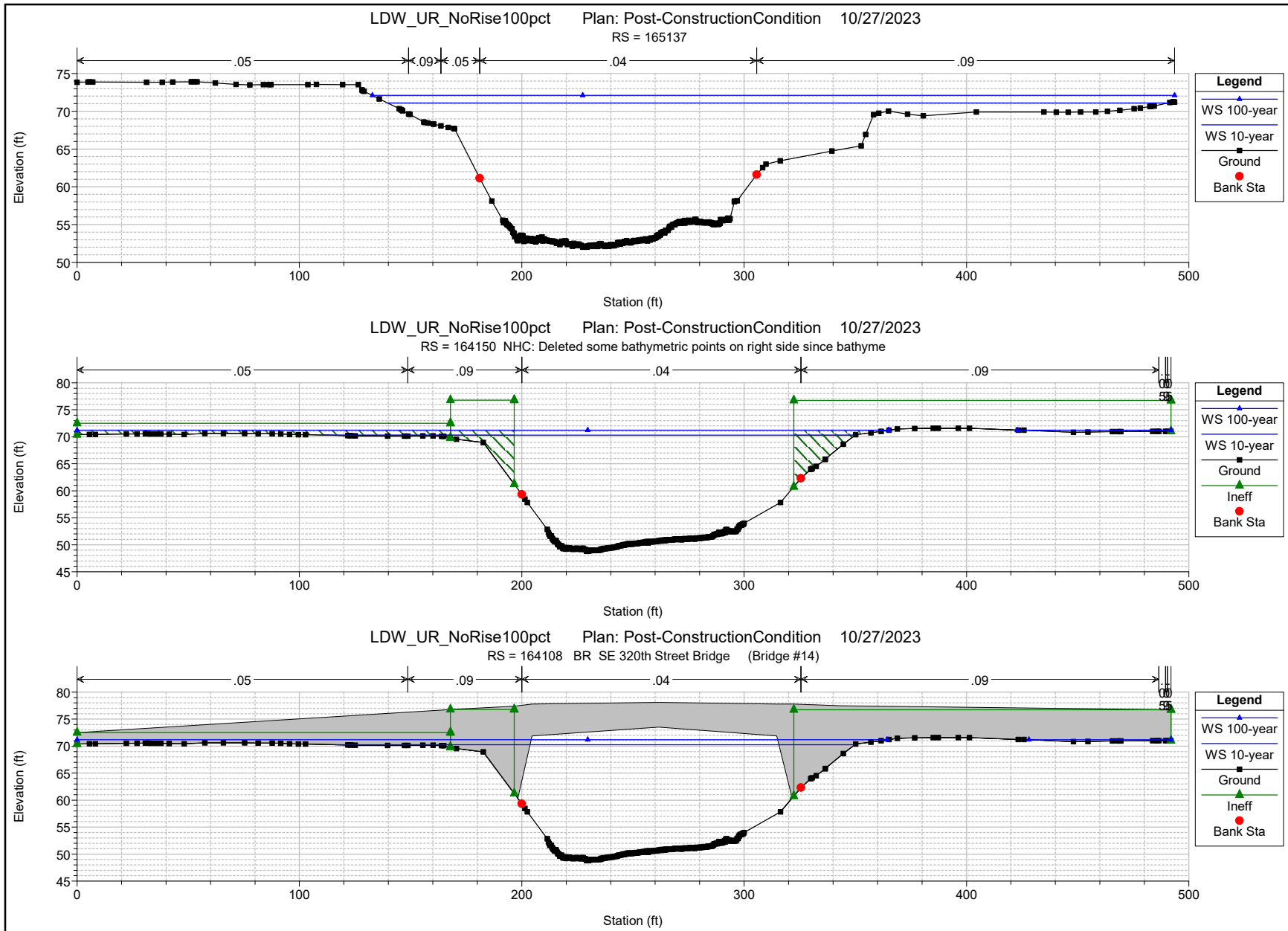
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 168448

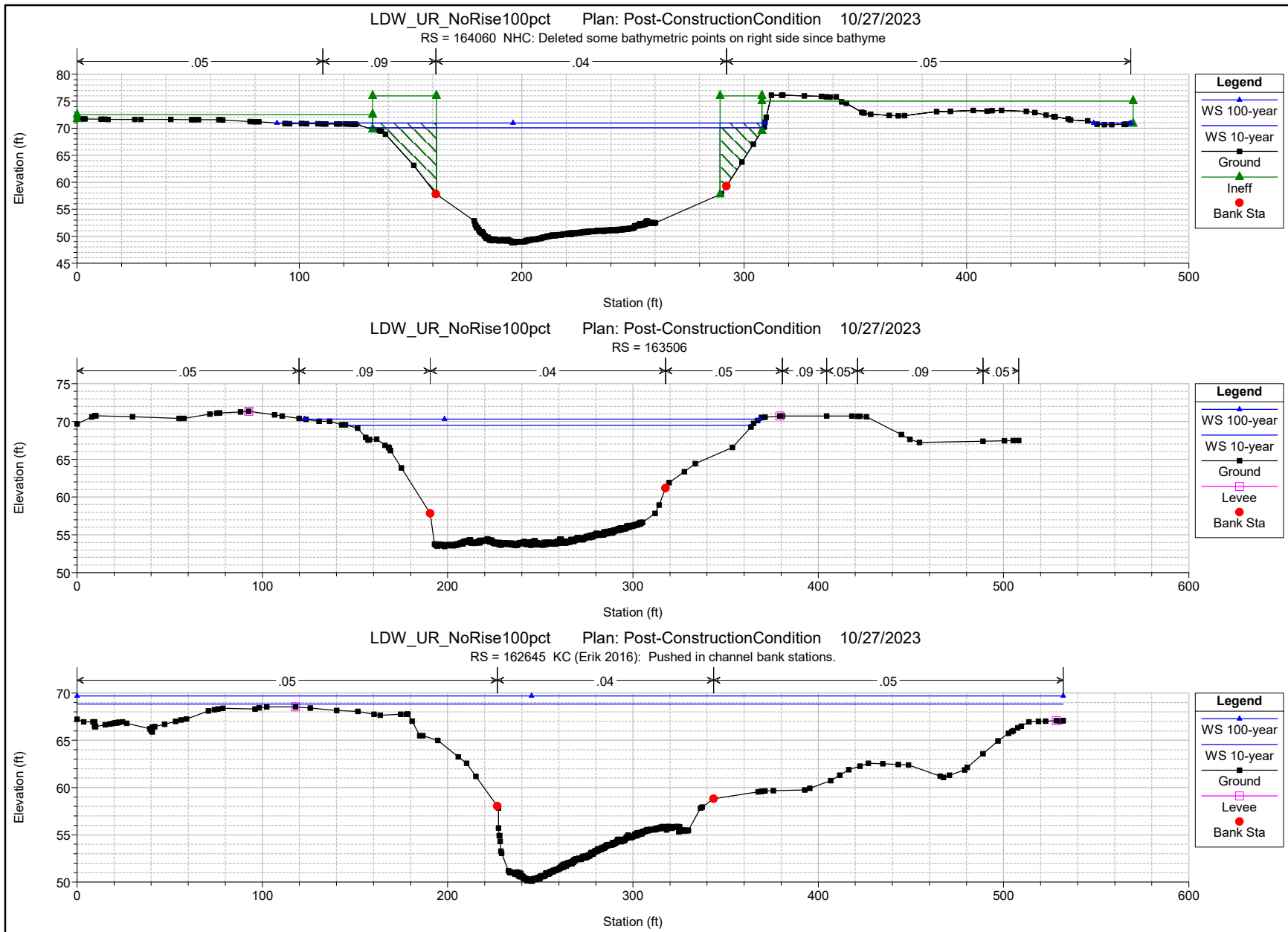


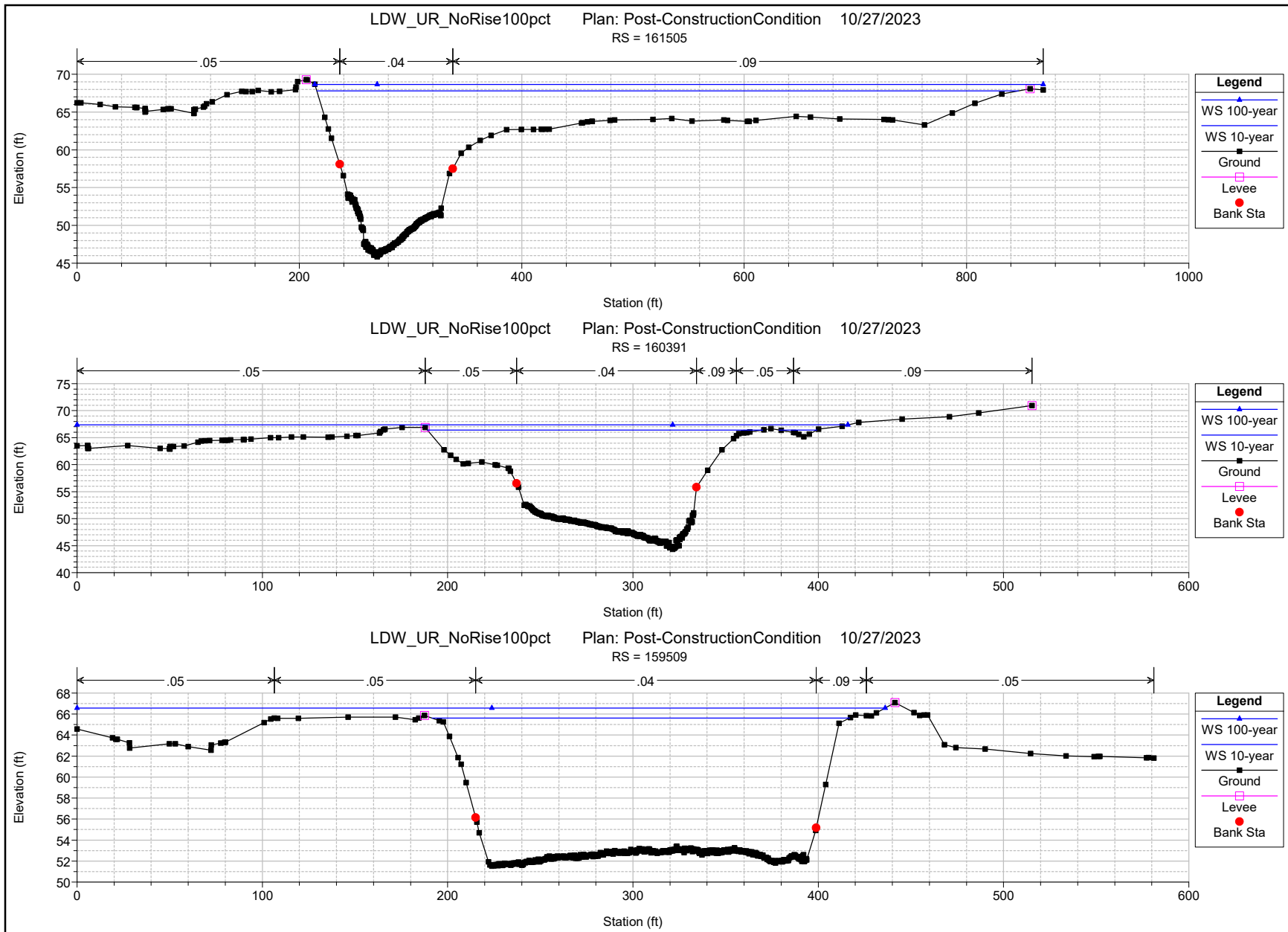
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 167556

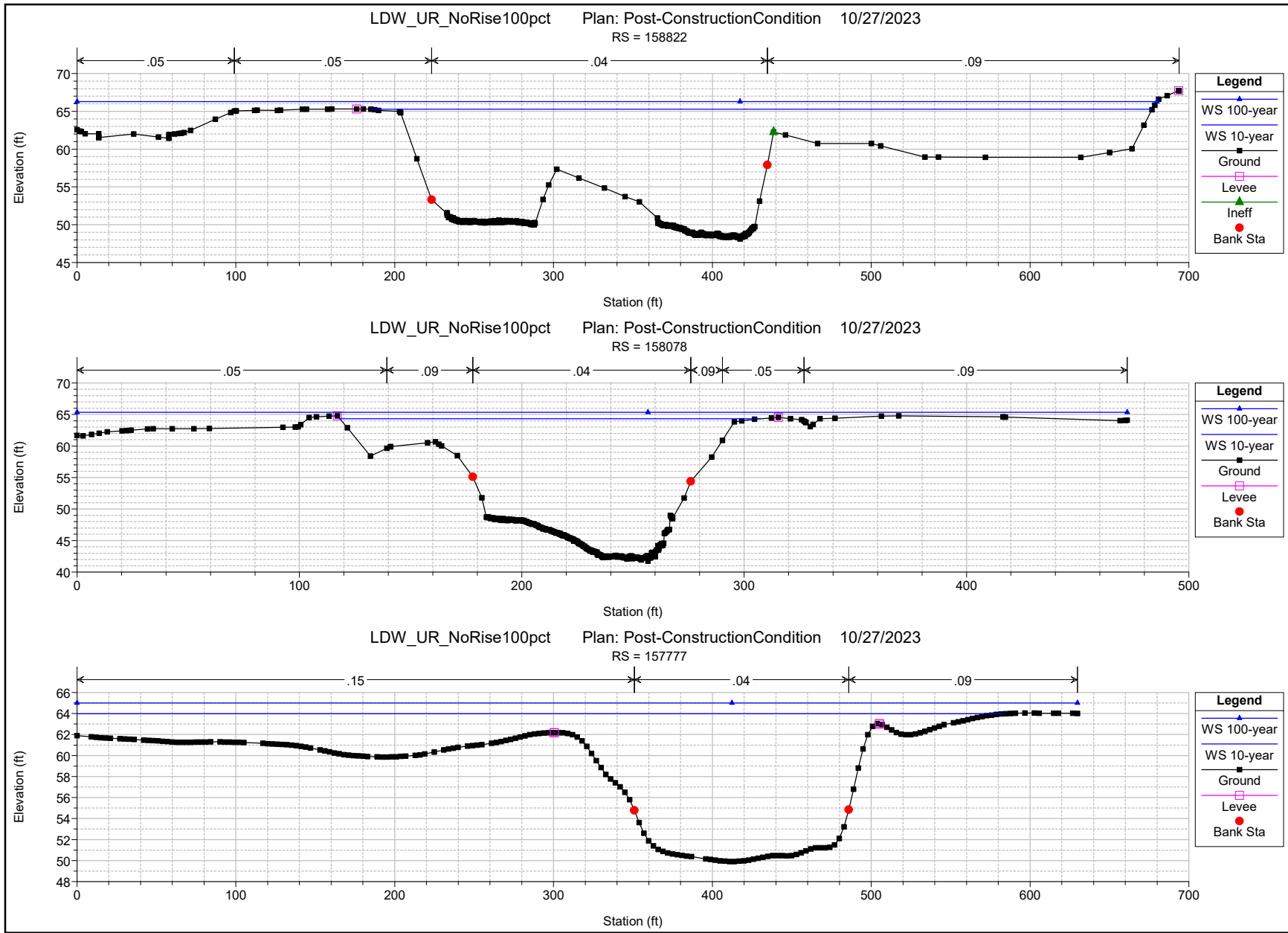


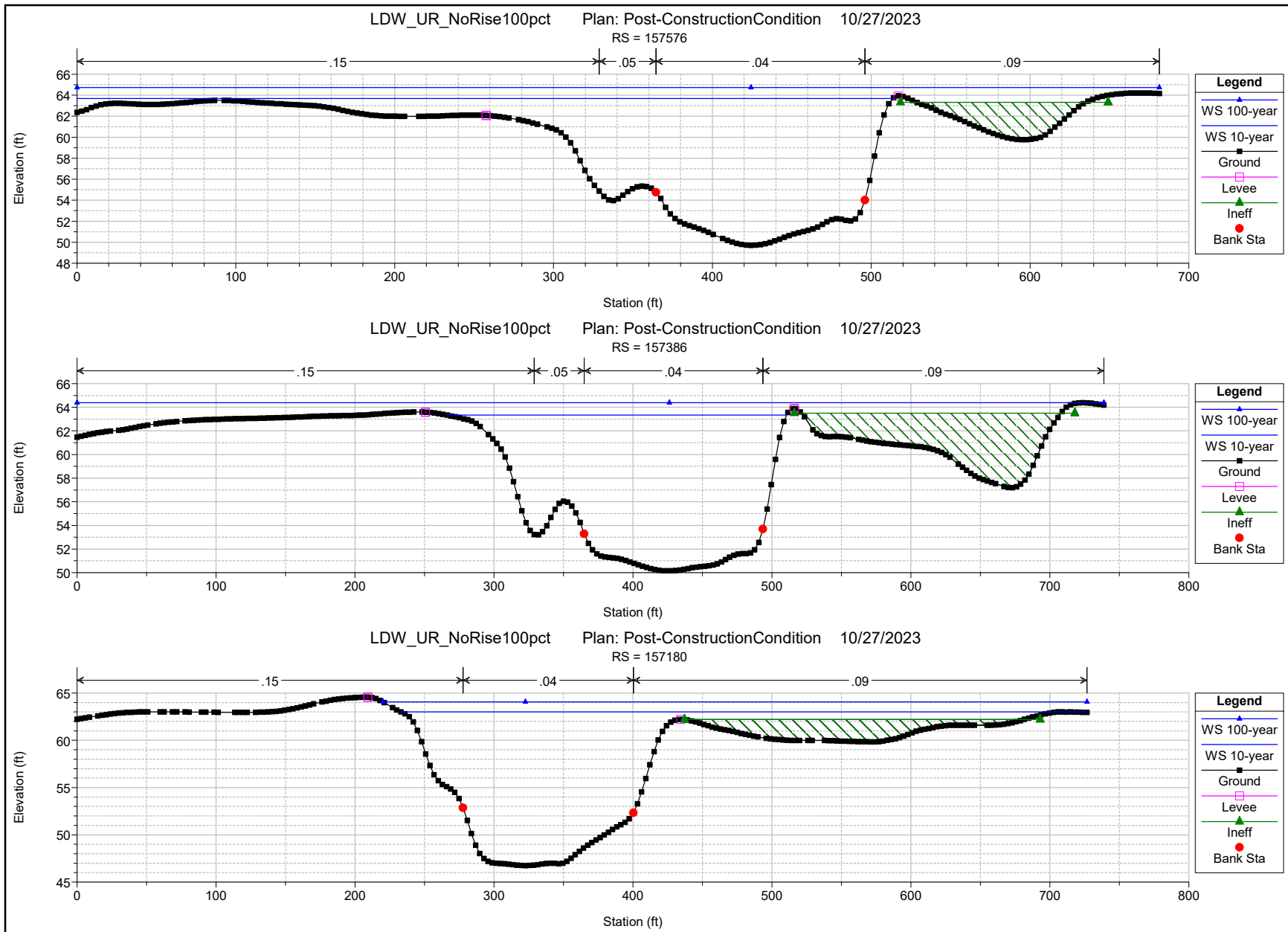


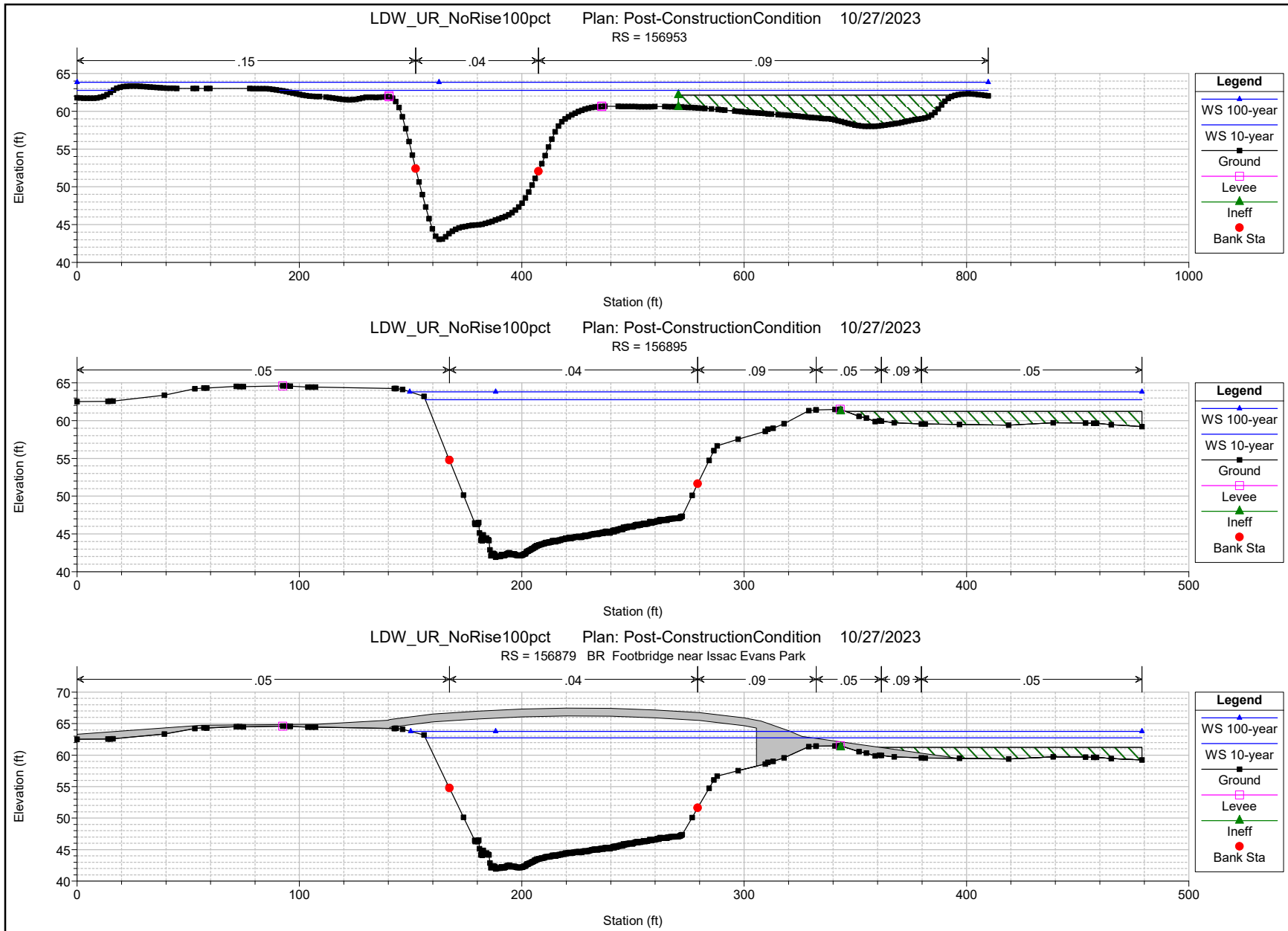




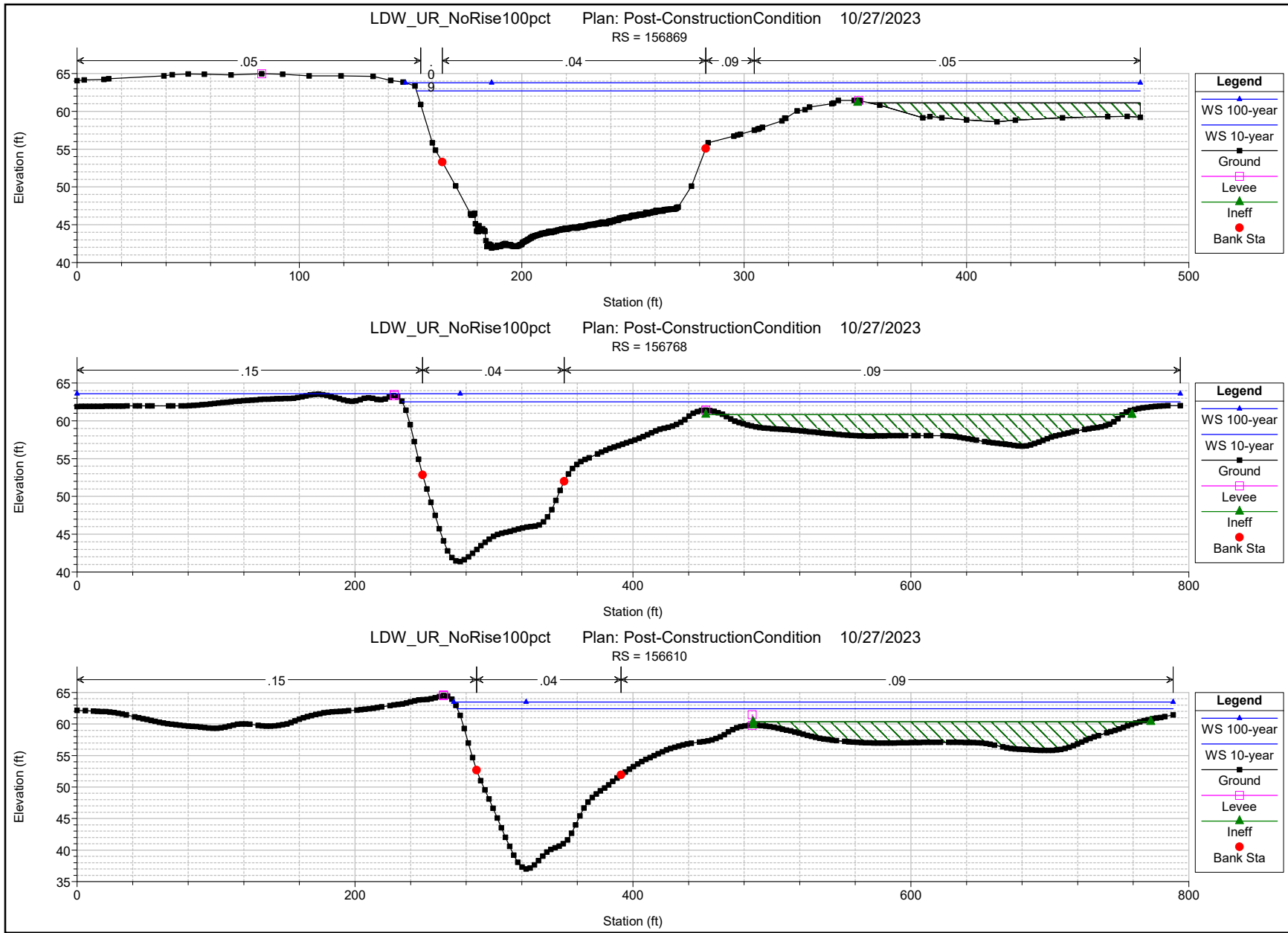


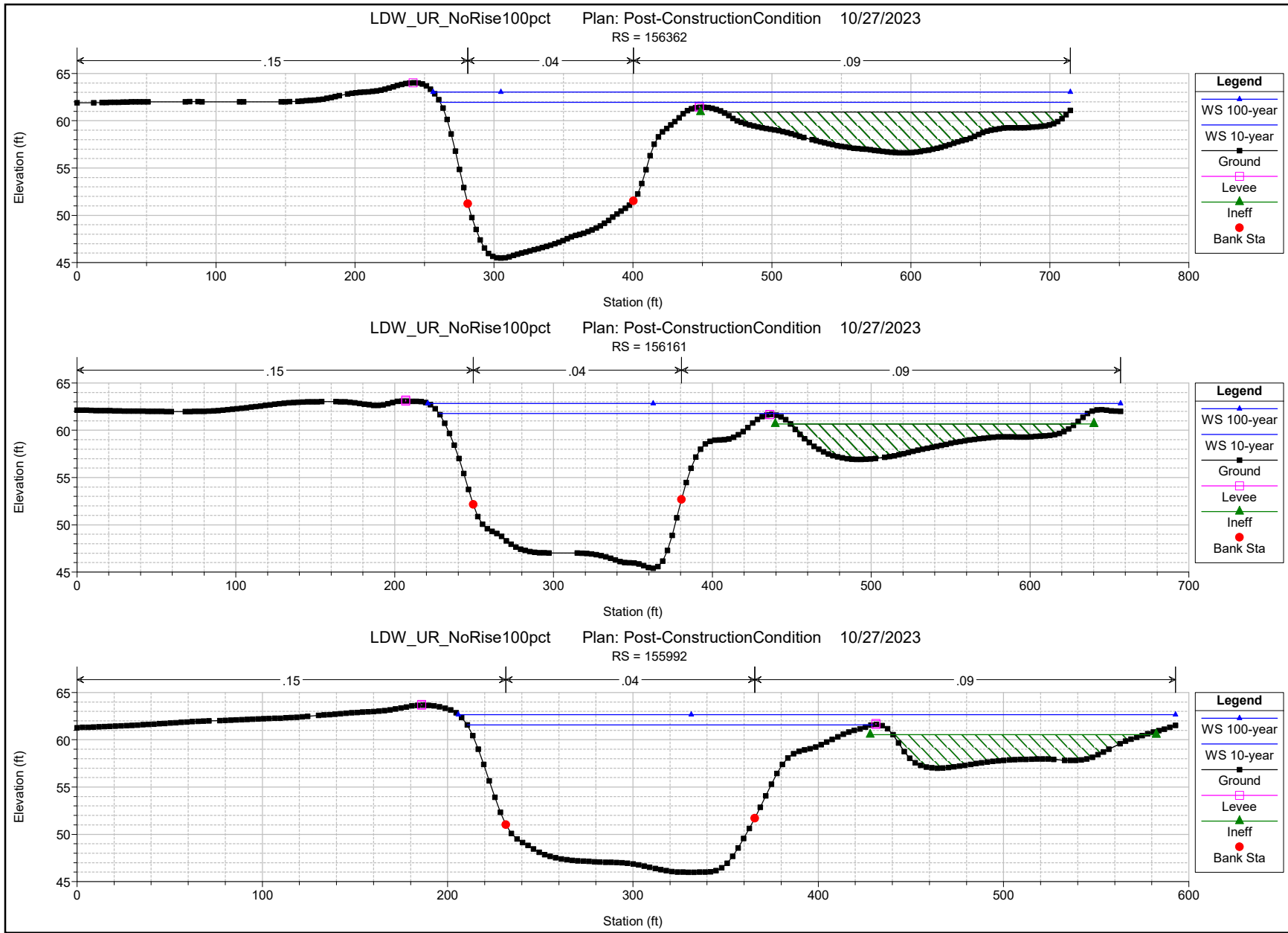


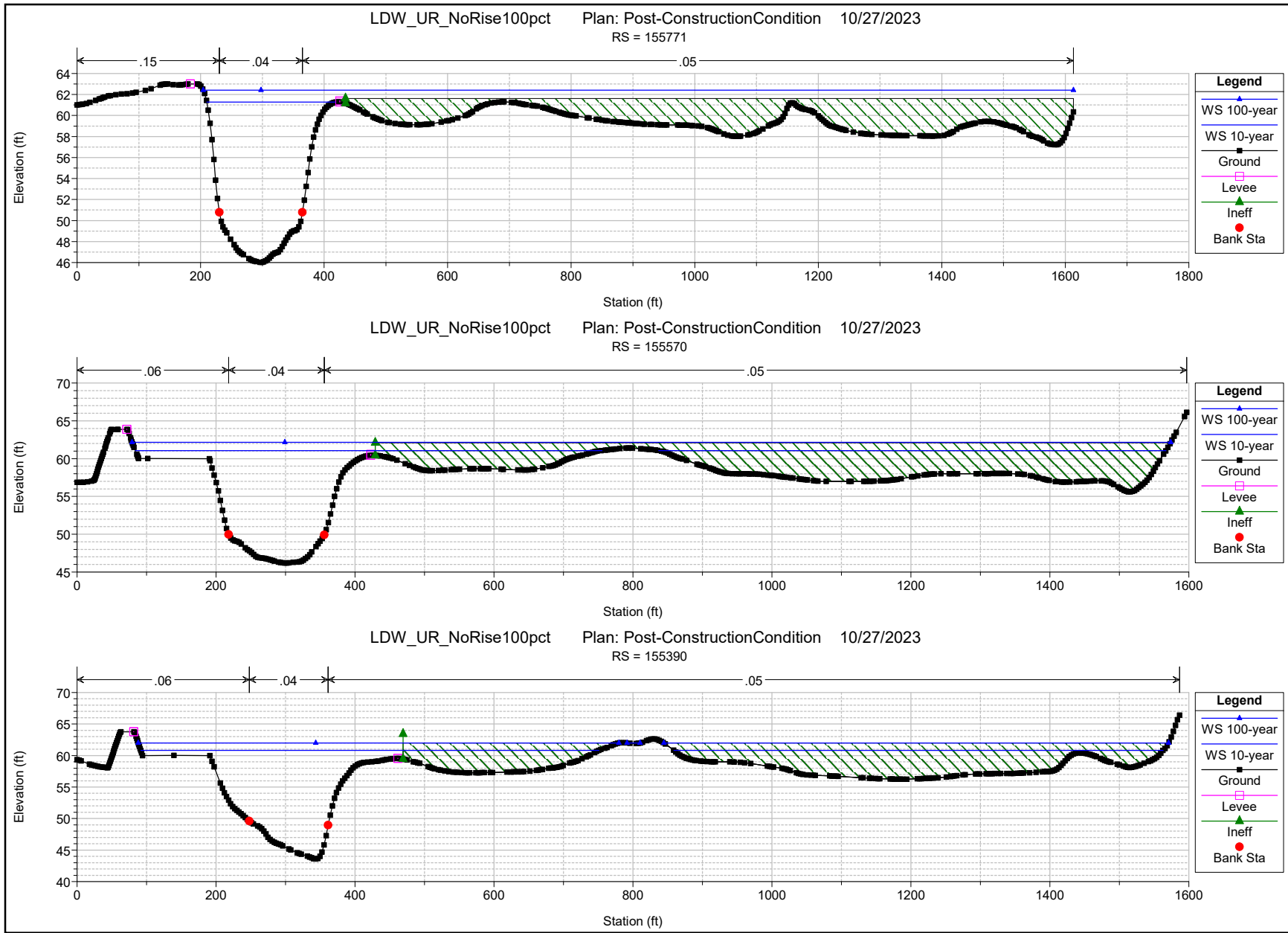




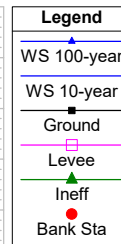
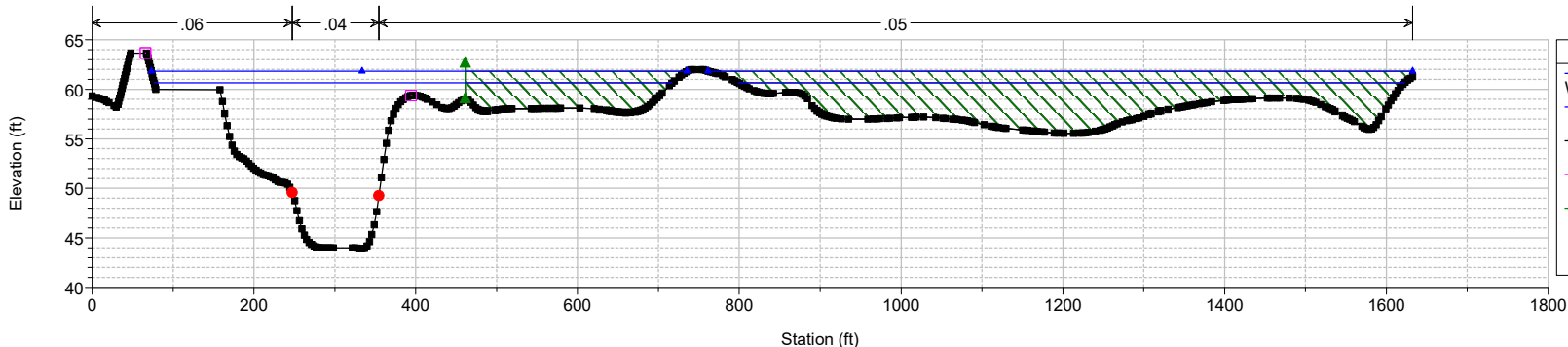




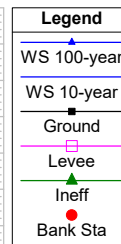
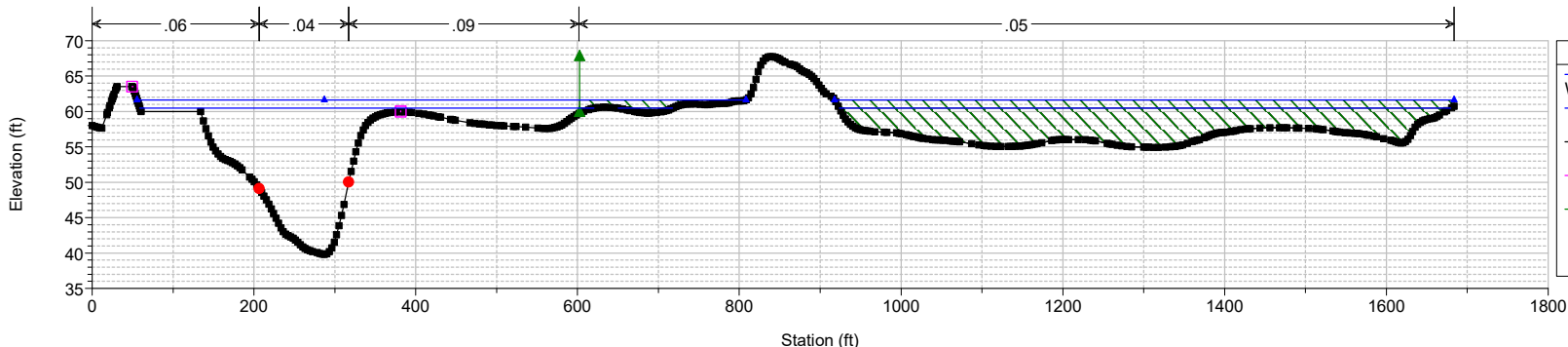




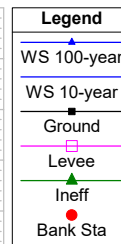
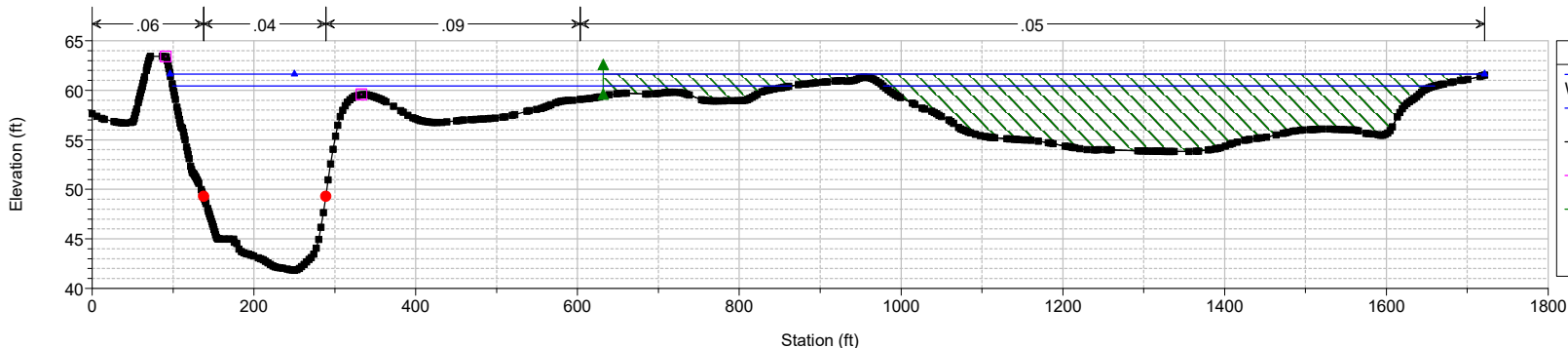
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 155184

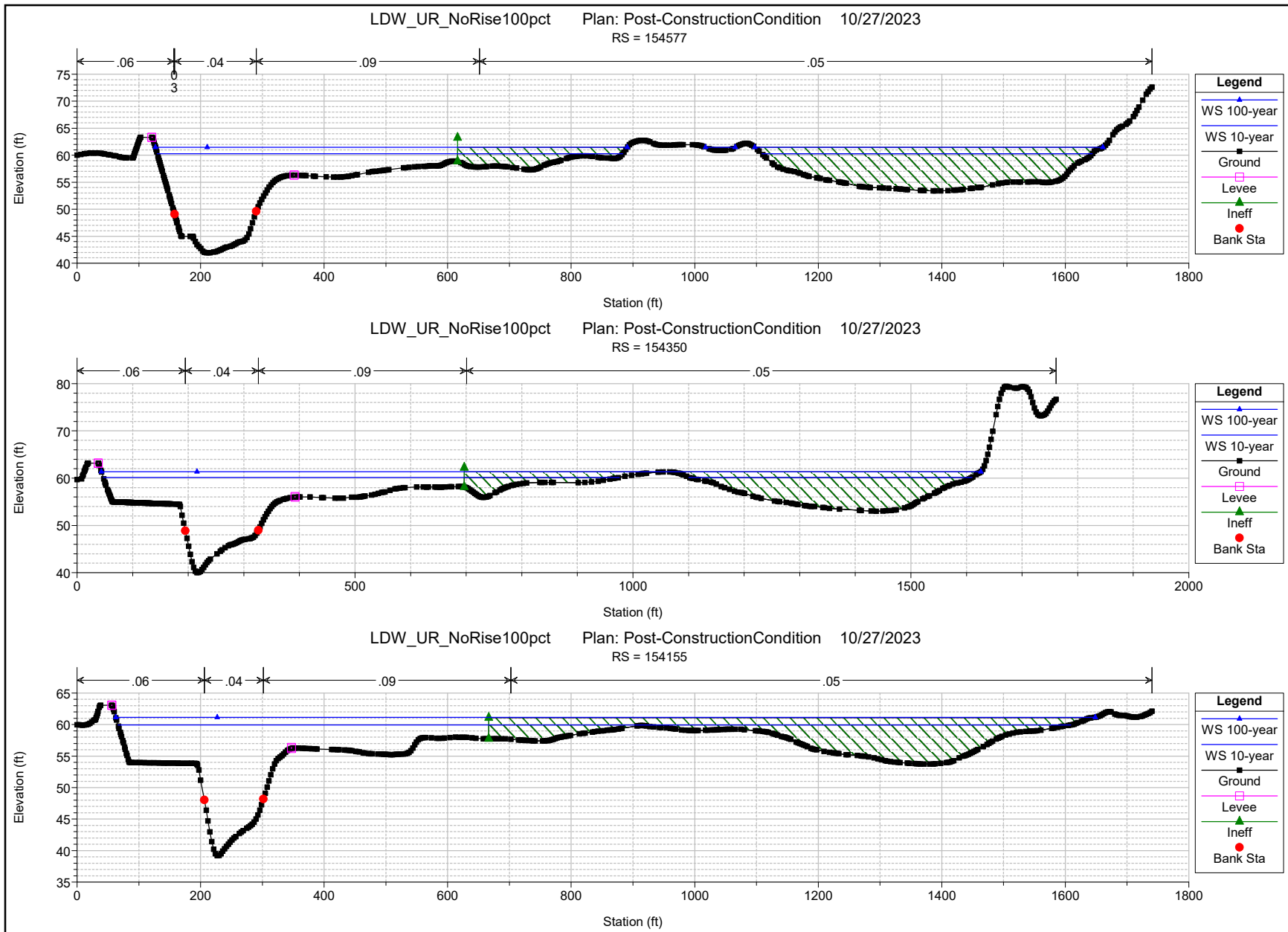


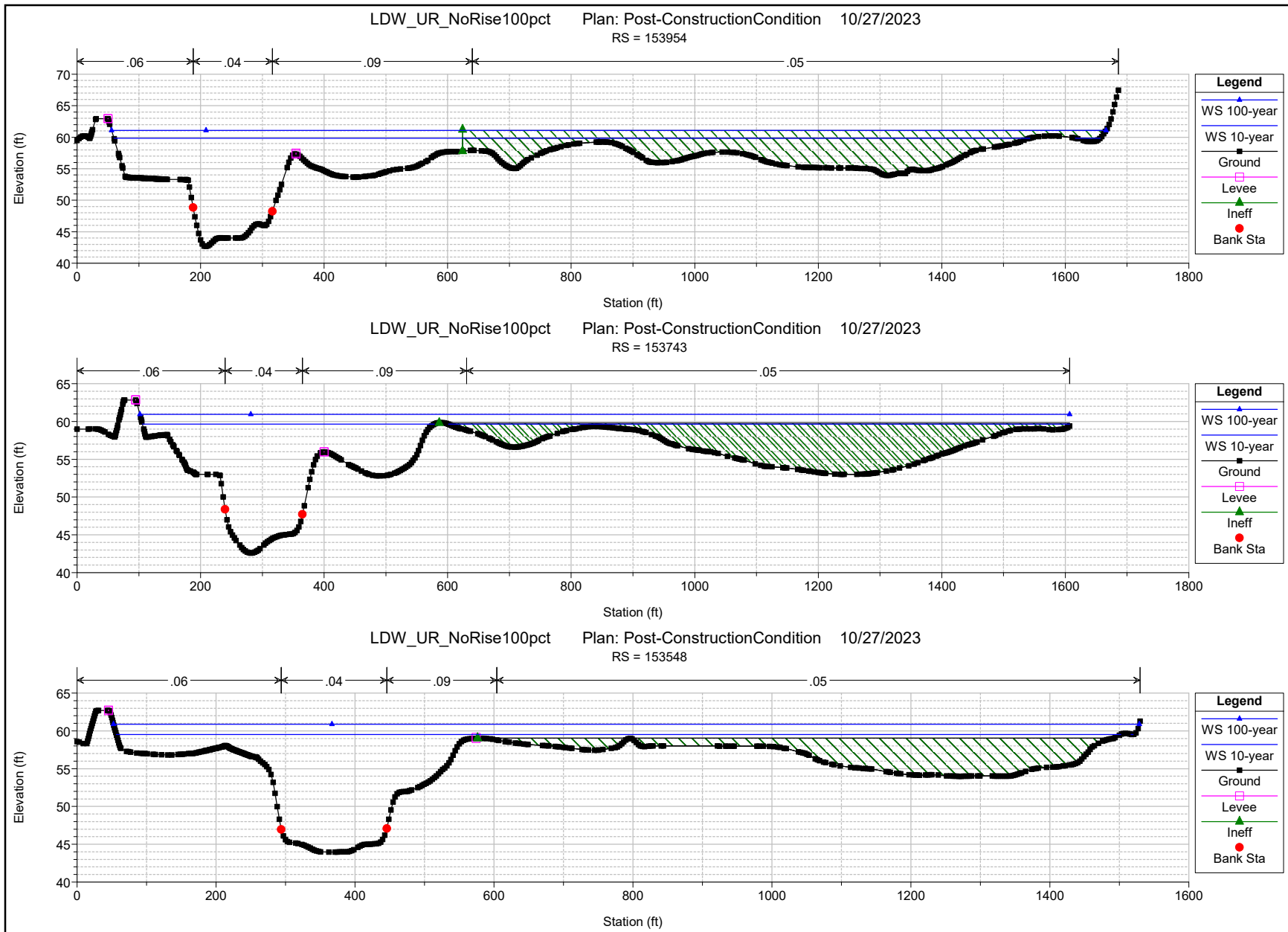
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 154947

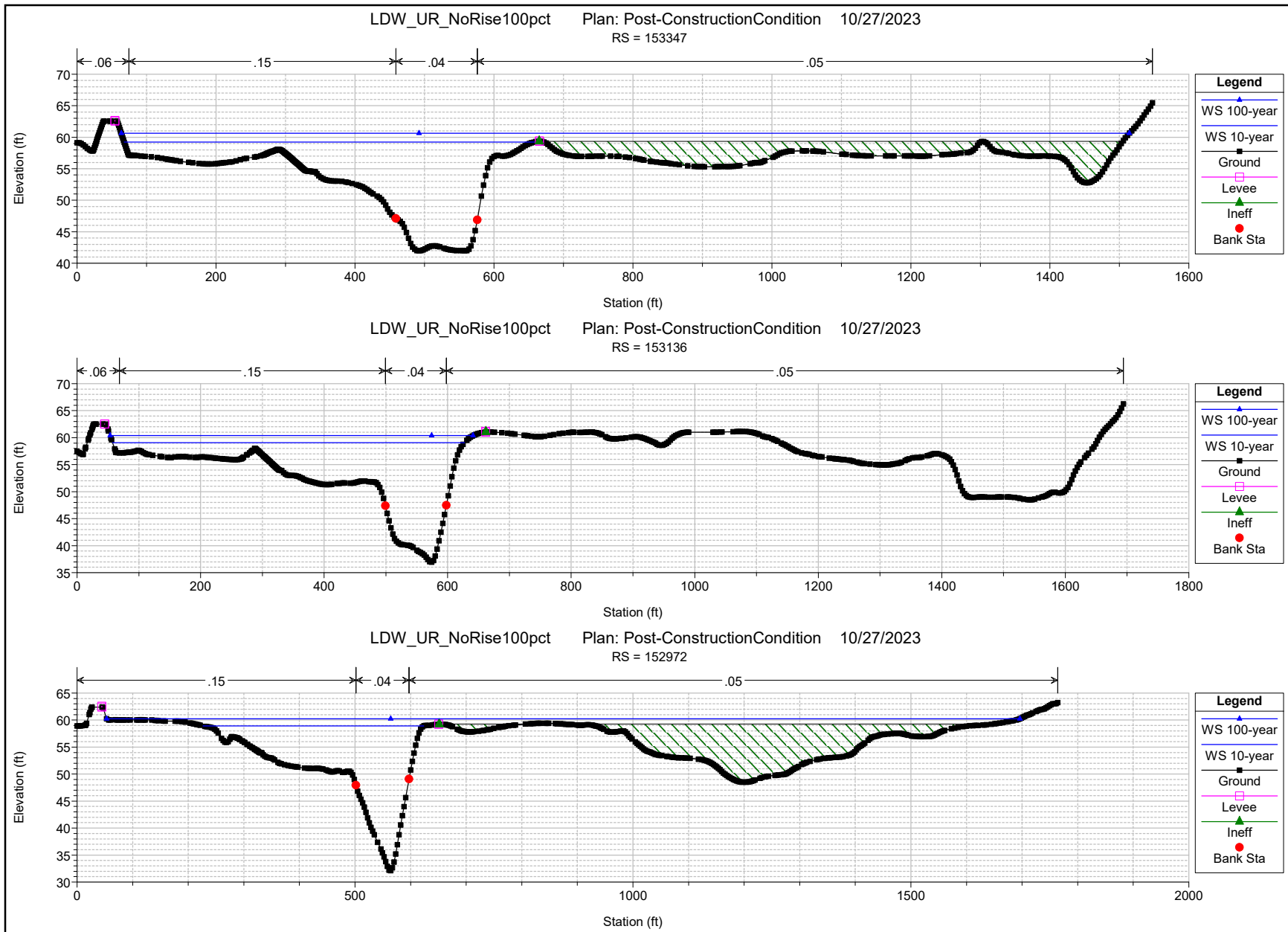


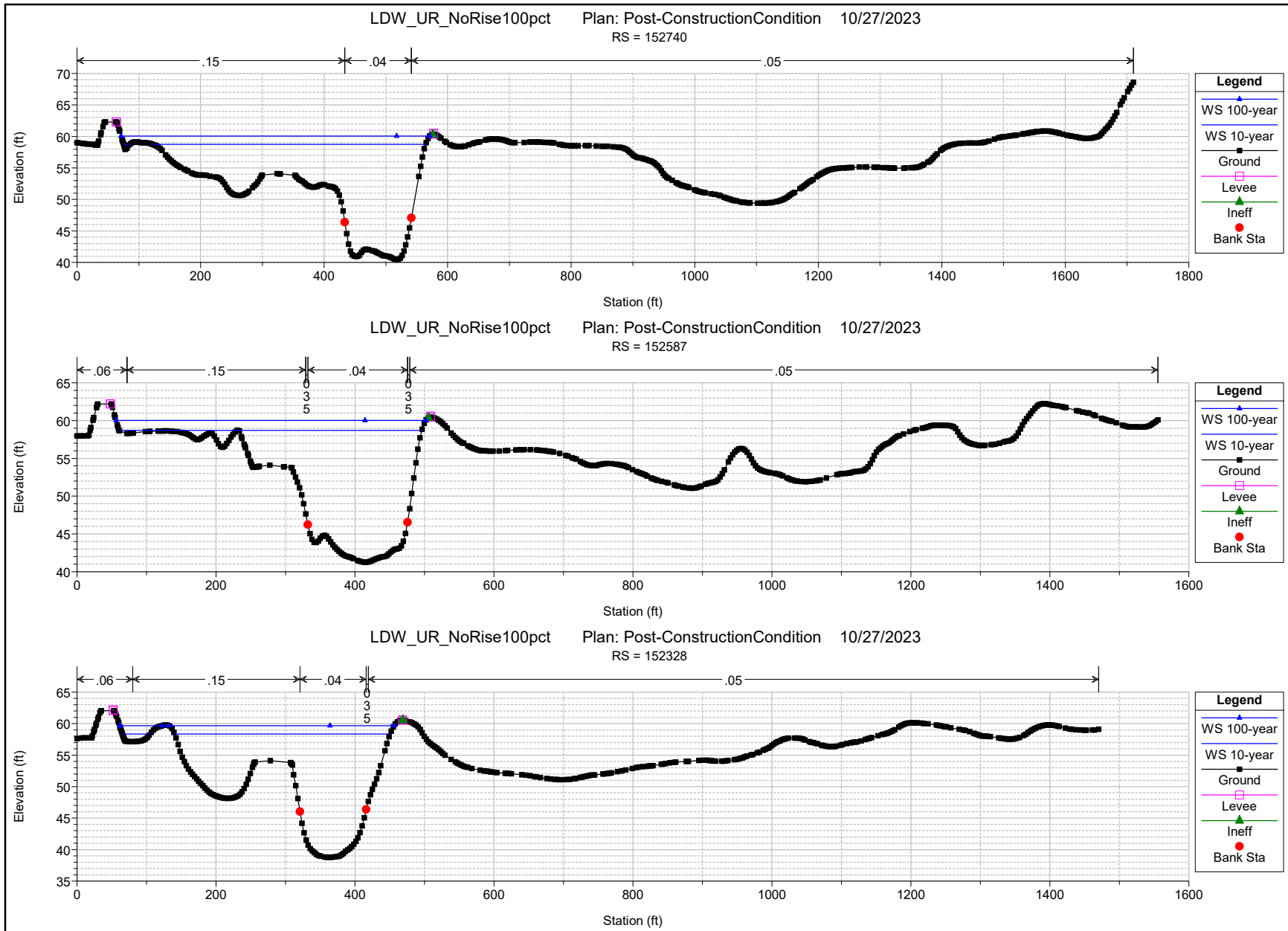
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 154746



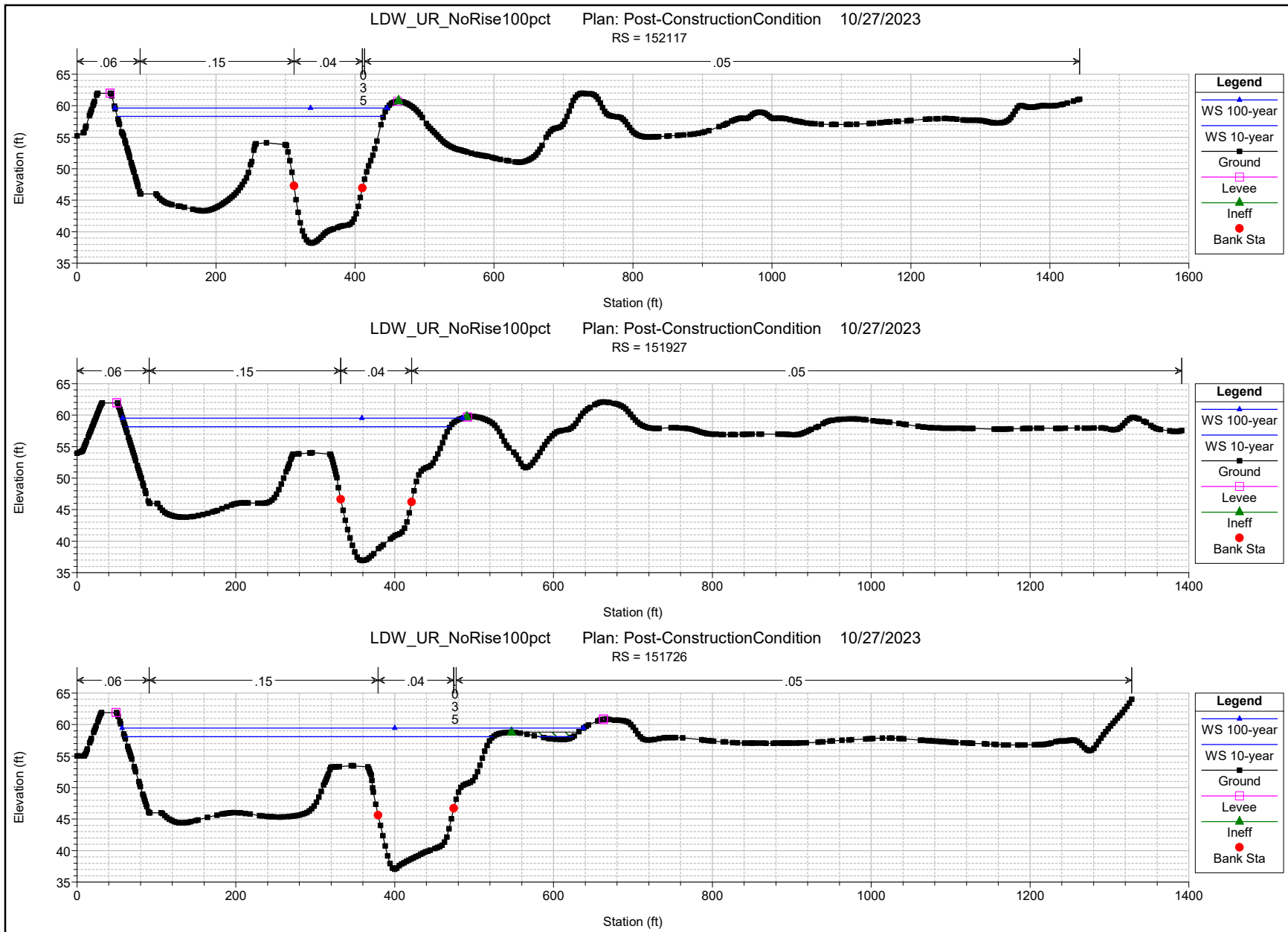


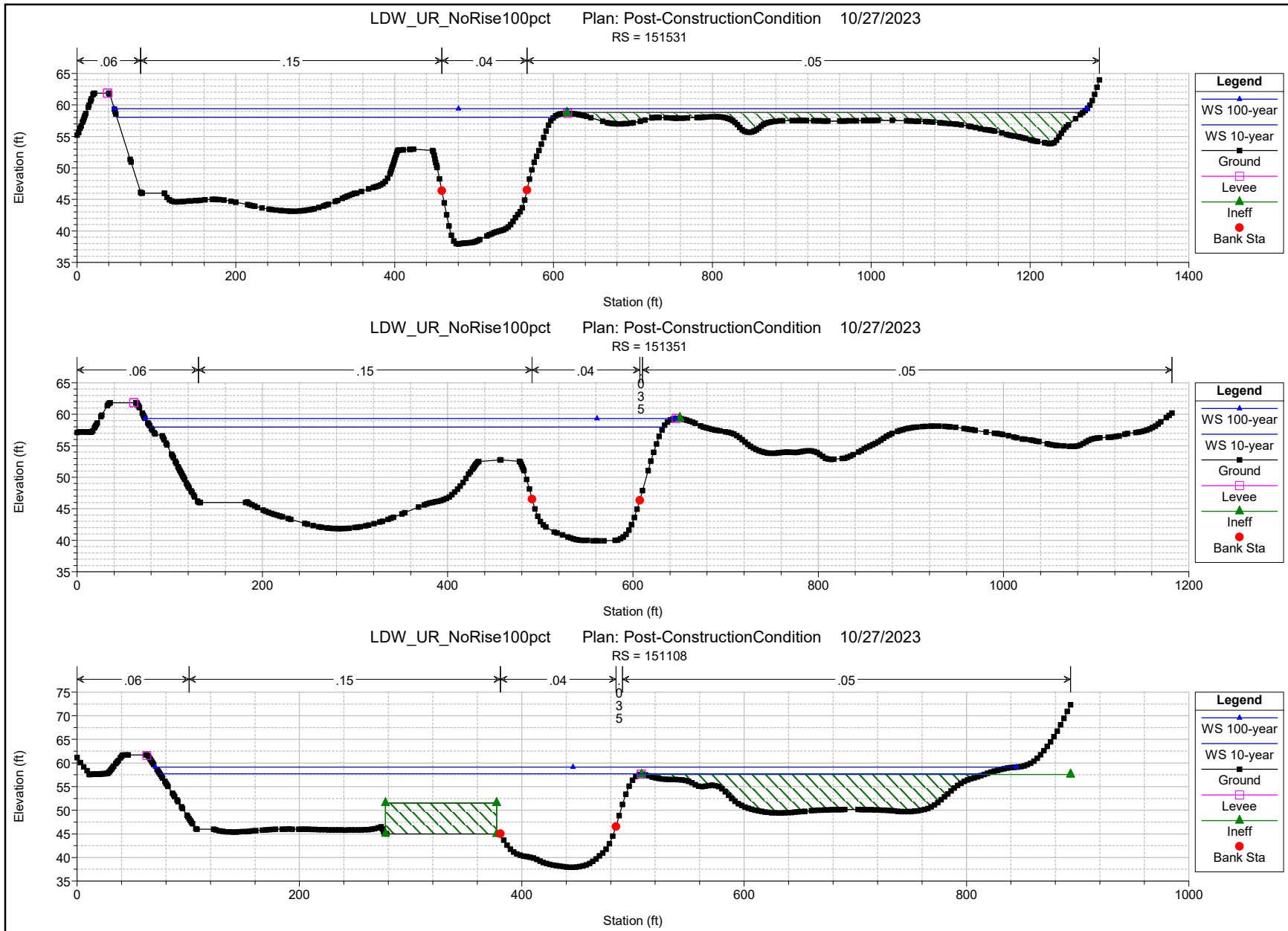


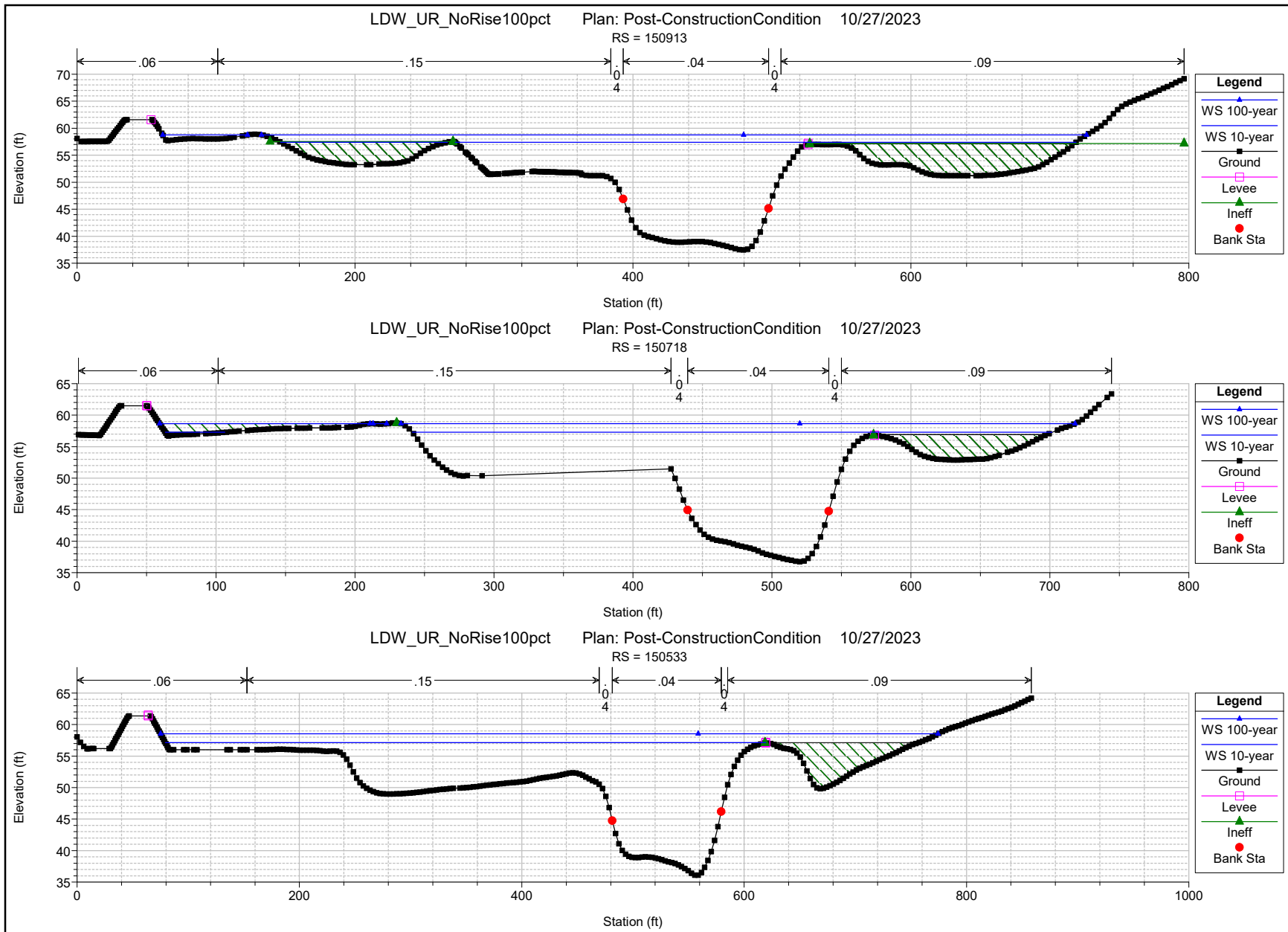


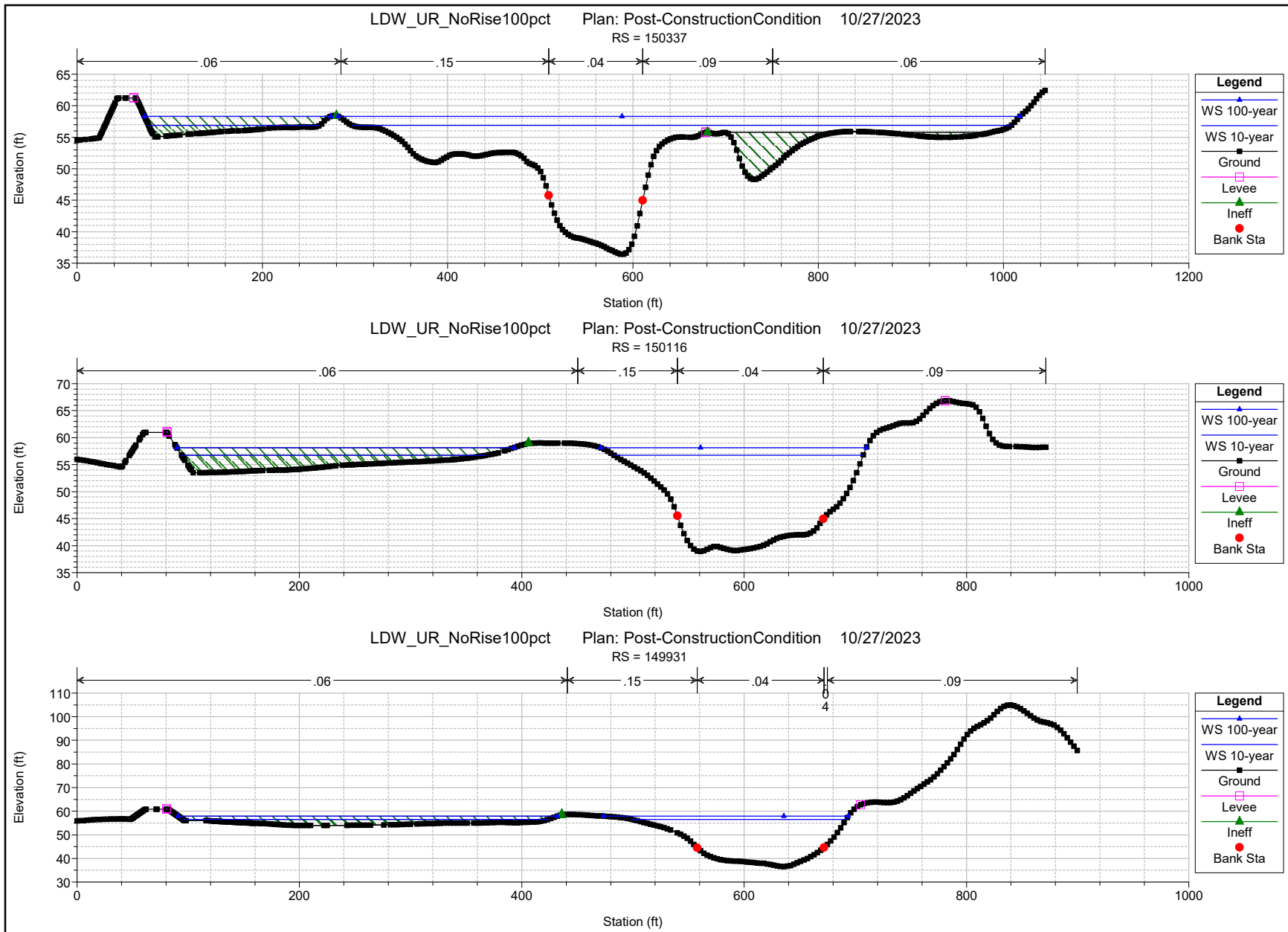


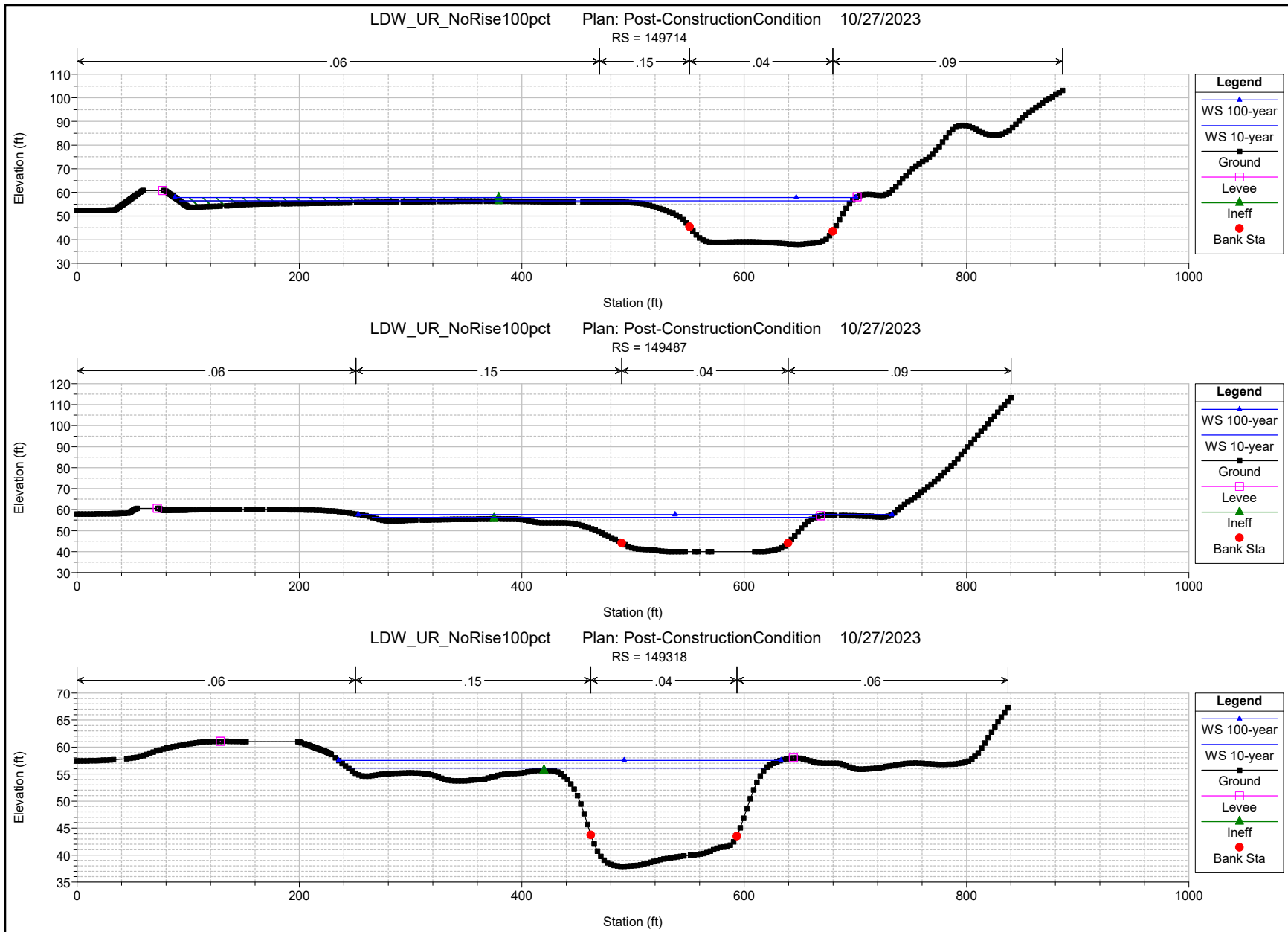


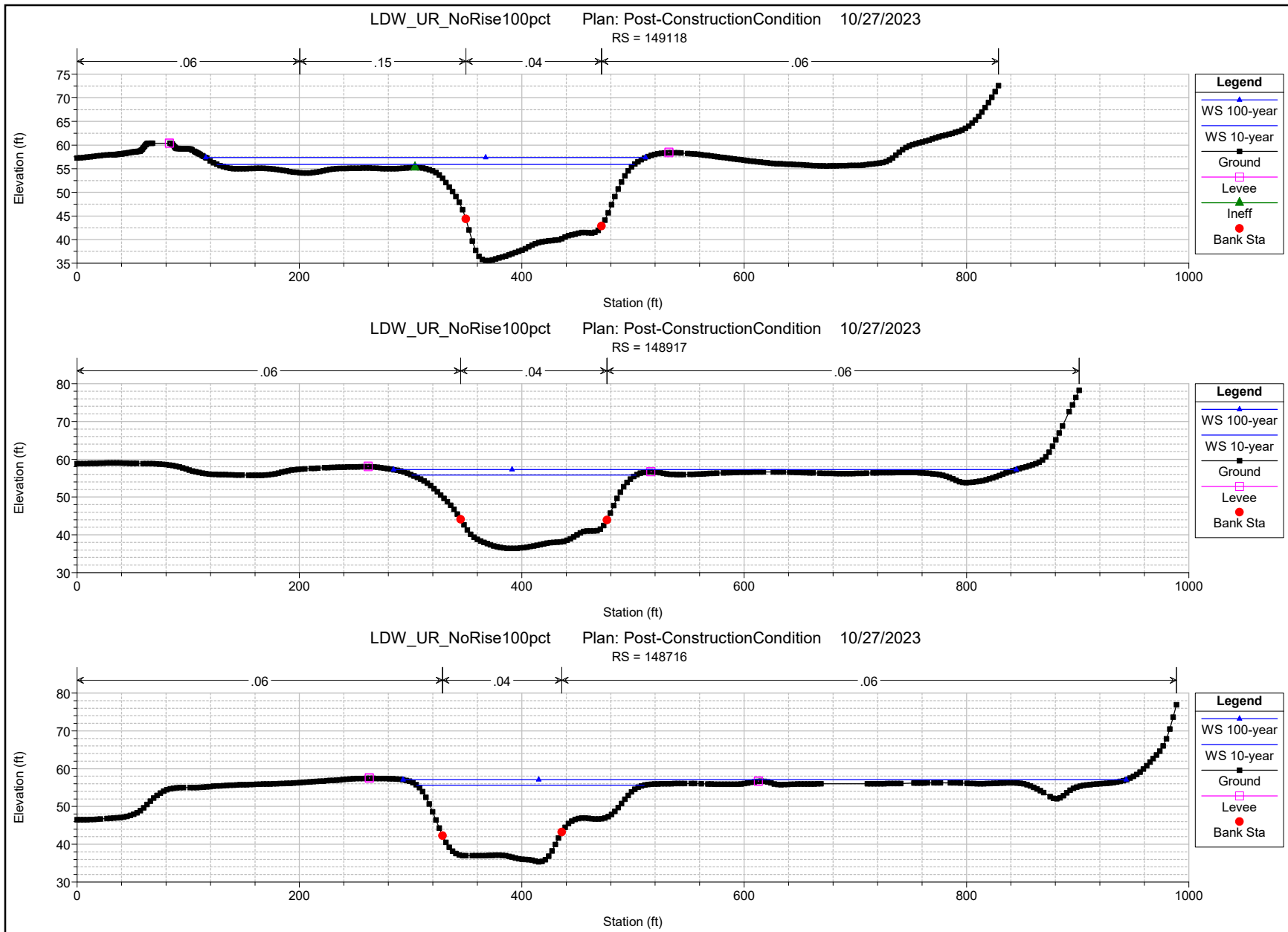


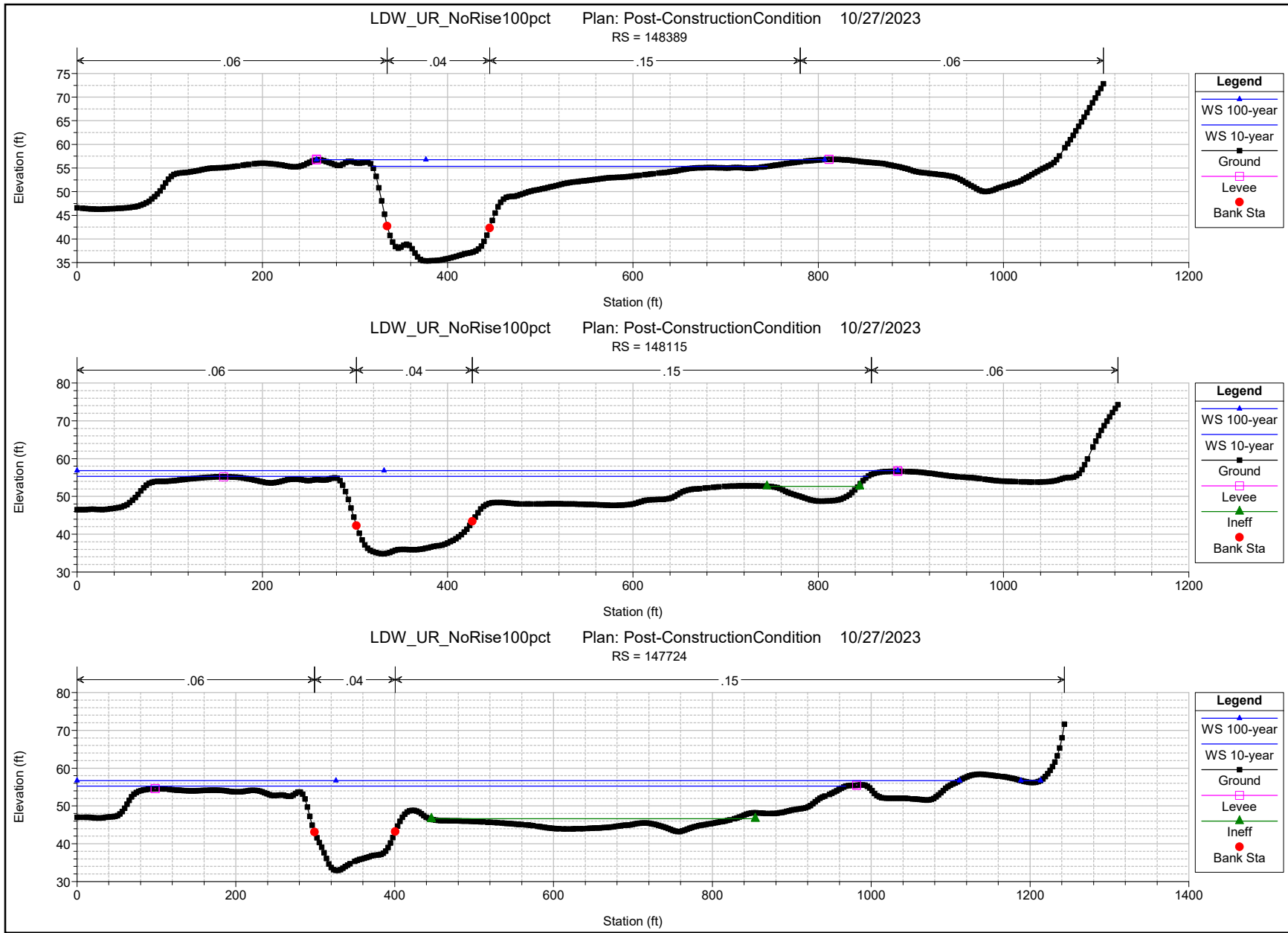




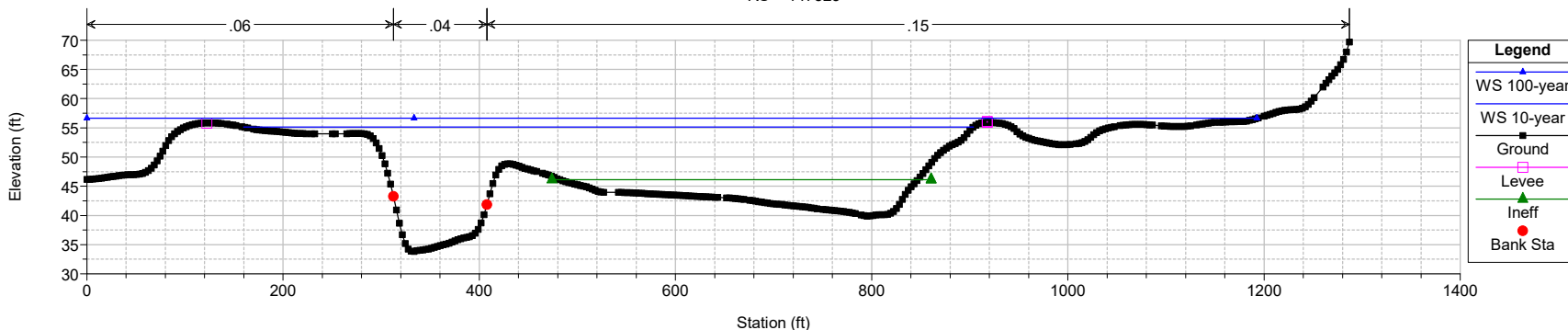




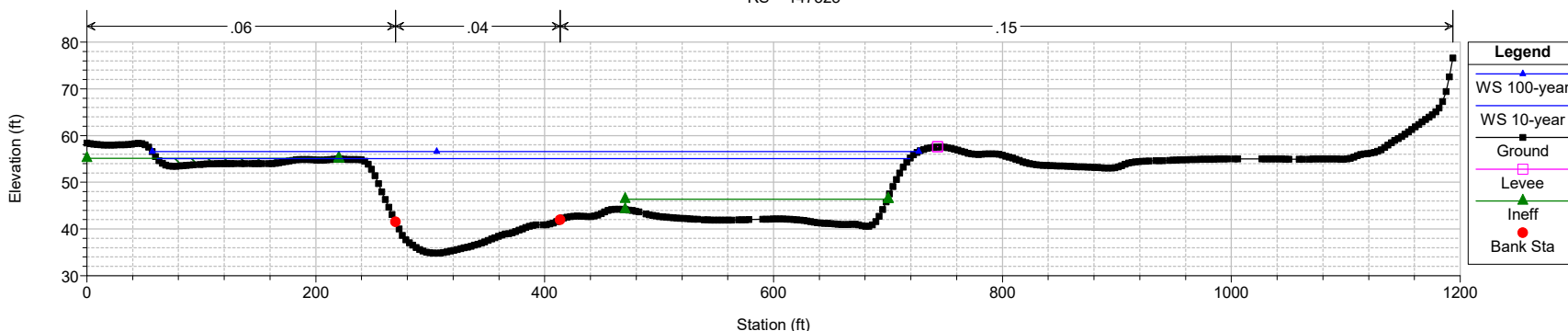




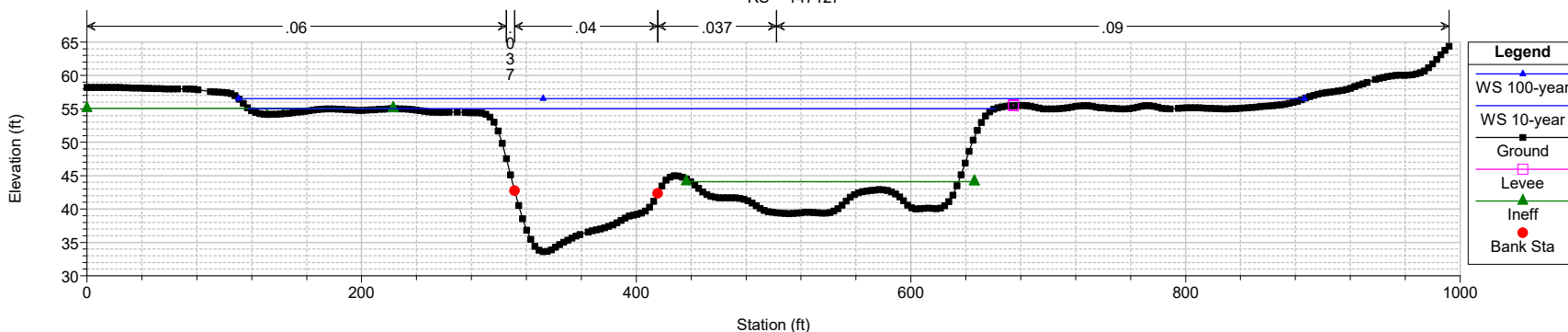
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 147523



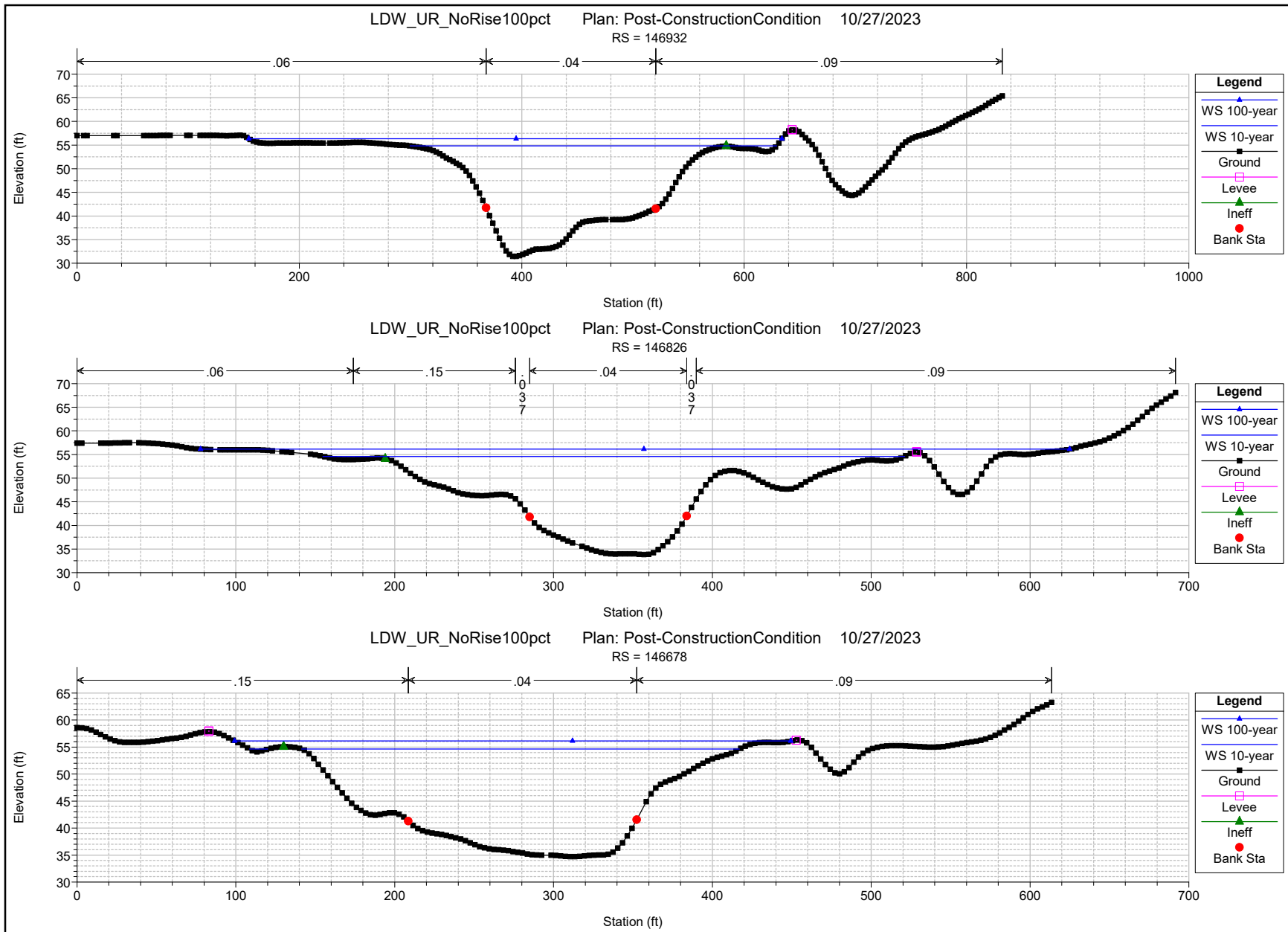
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 147323

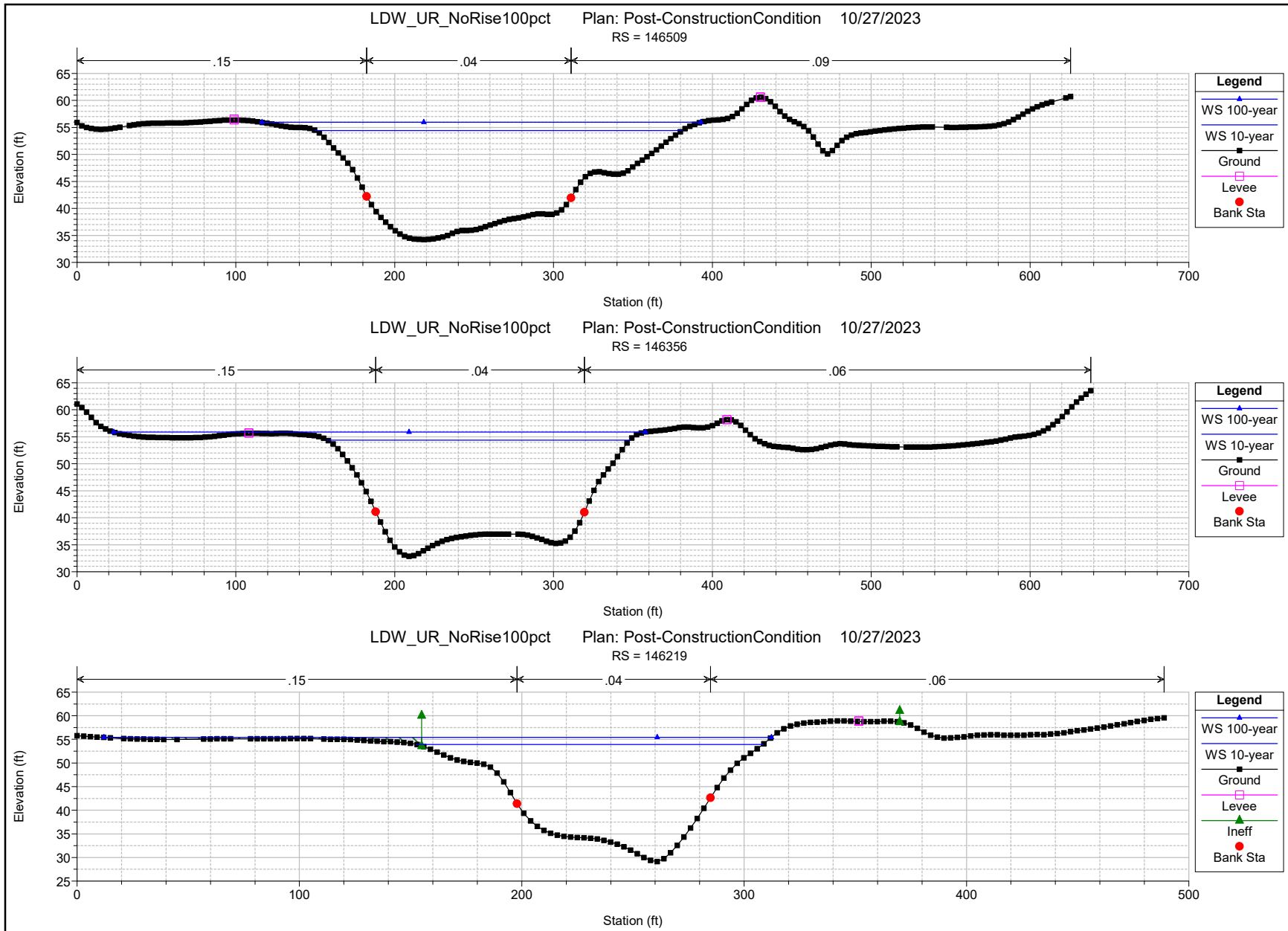


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 147127

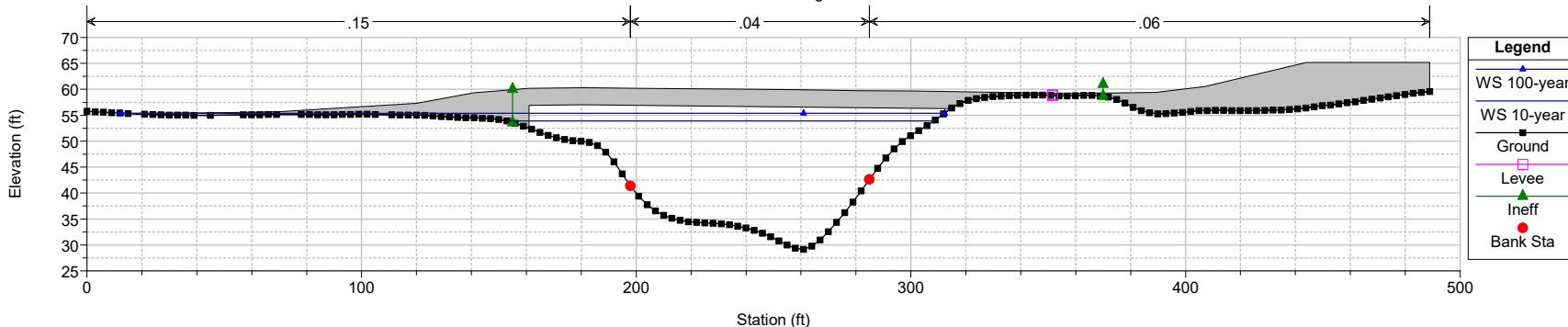




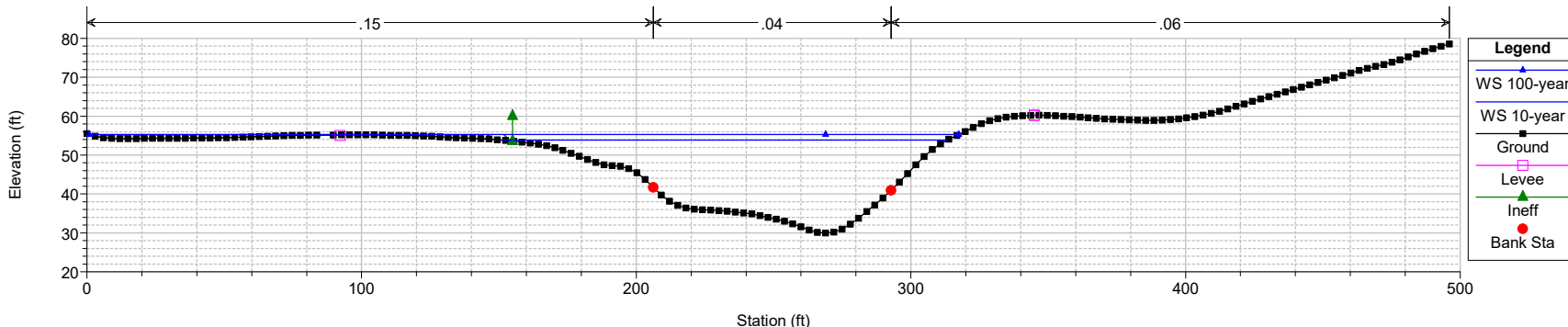




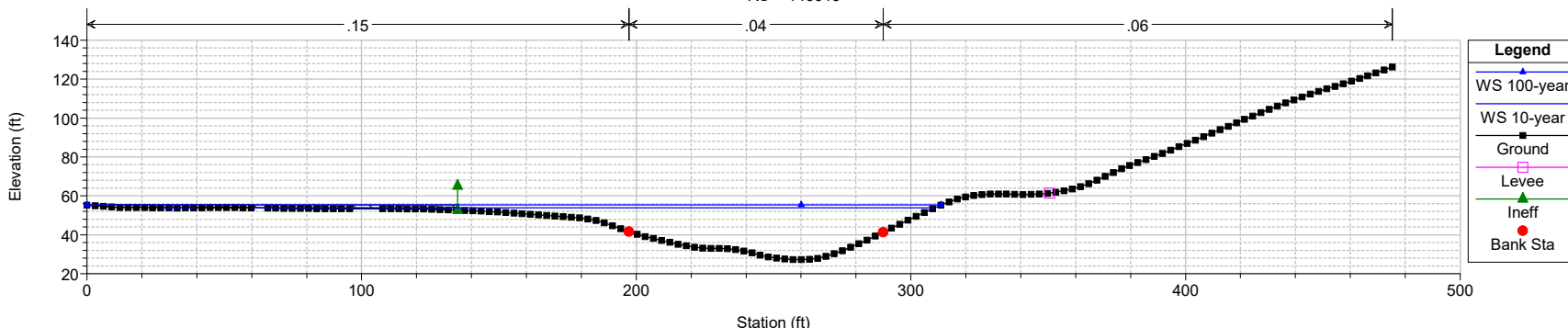
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 146193 BR Footbridge near S. 277th Street

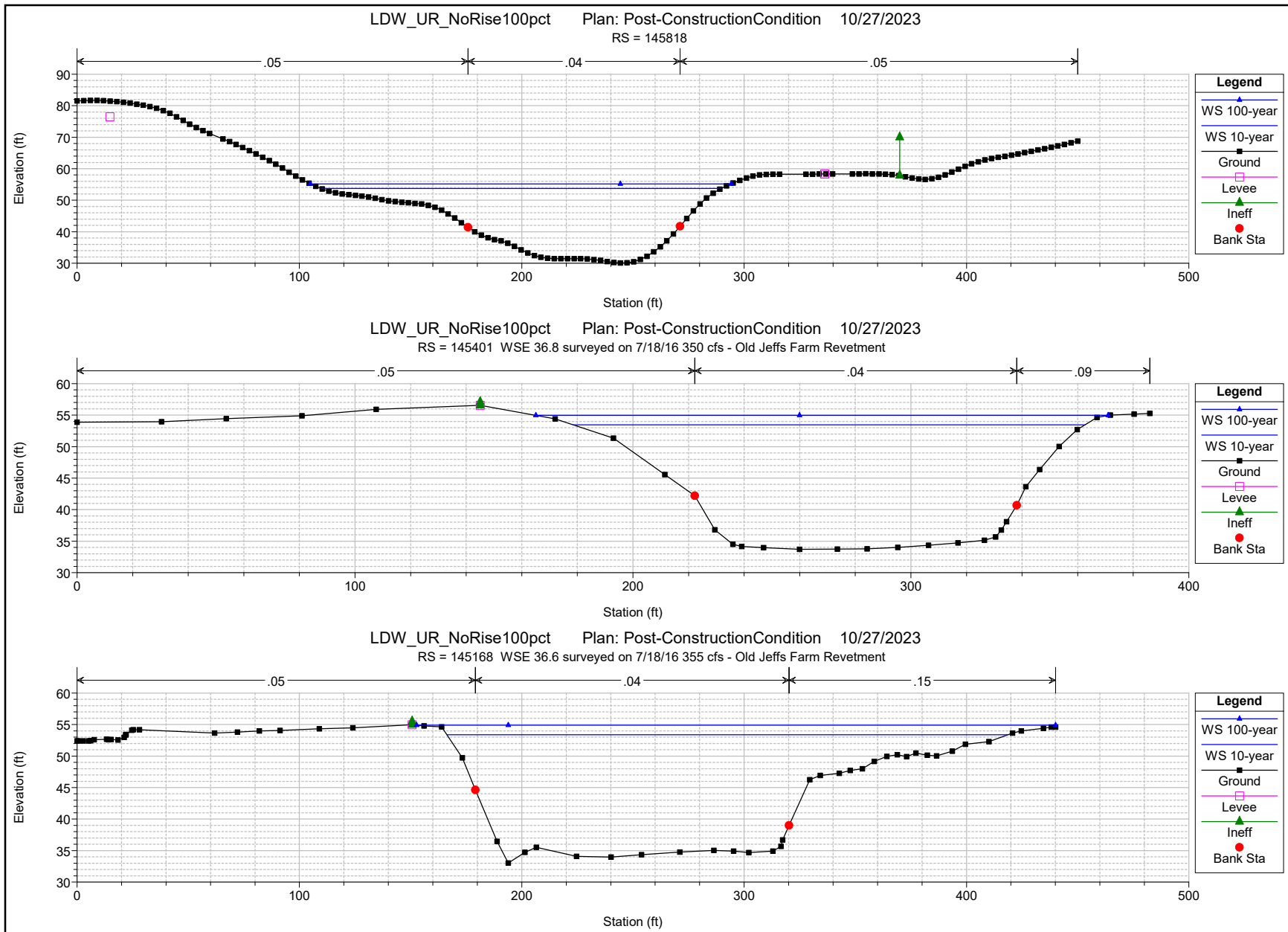


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 146166

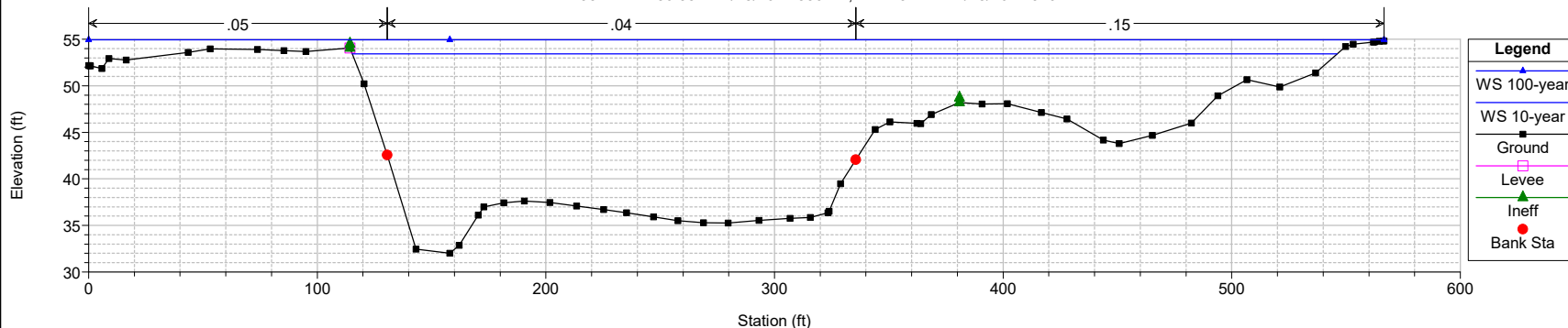


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 146013

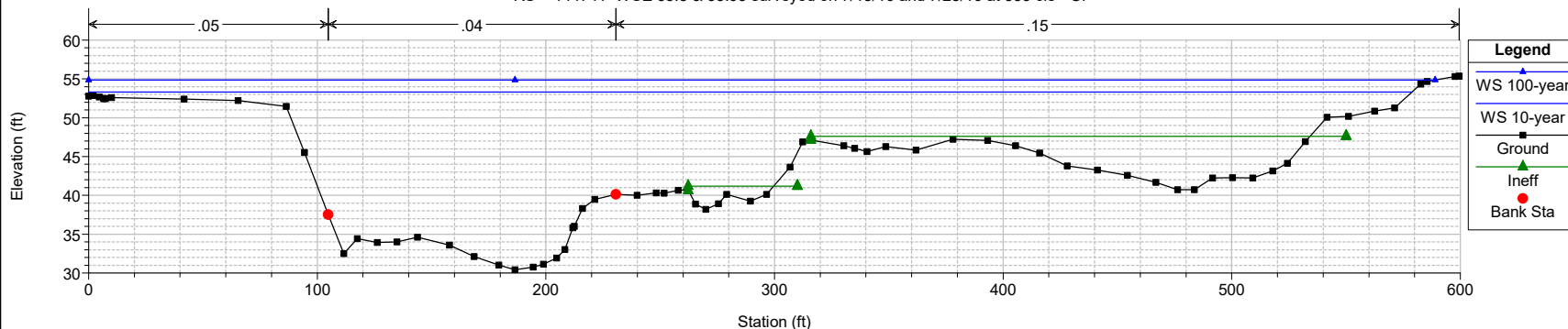




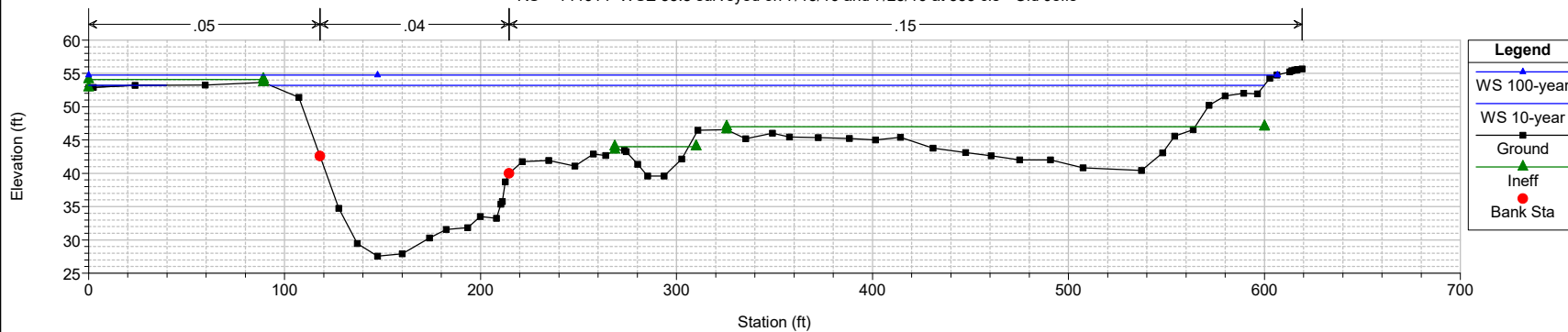
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 144957 WSE 36.35 on 7/18/16 at 350 cfs, WSE 37.1 on 7/13/16 at 370 cfs

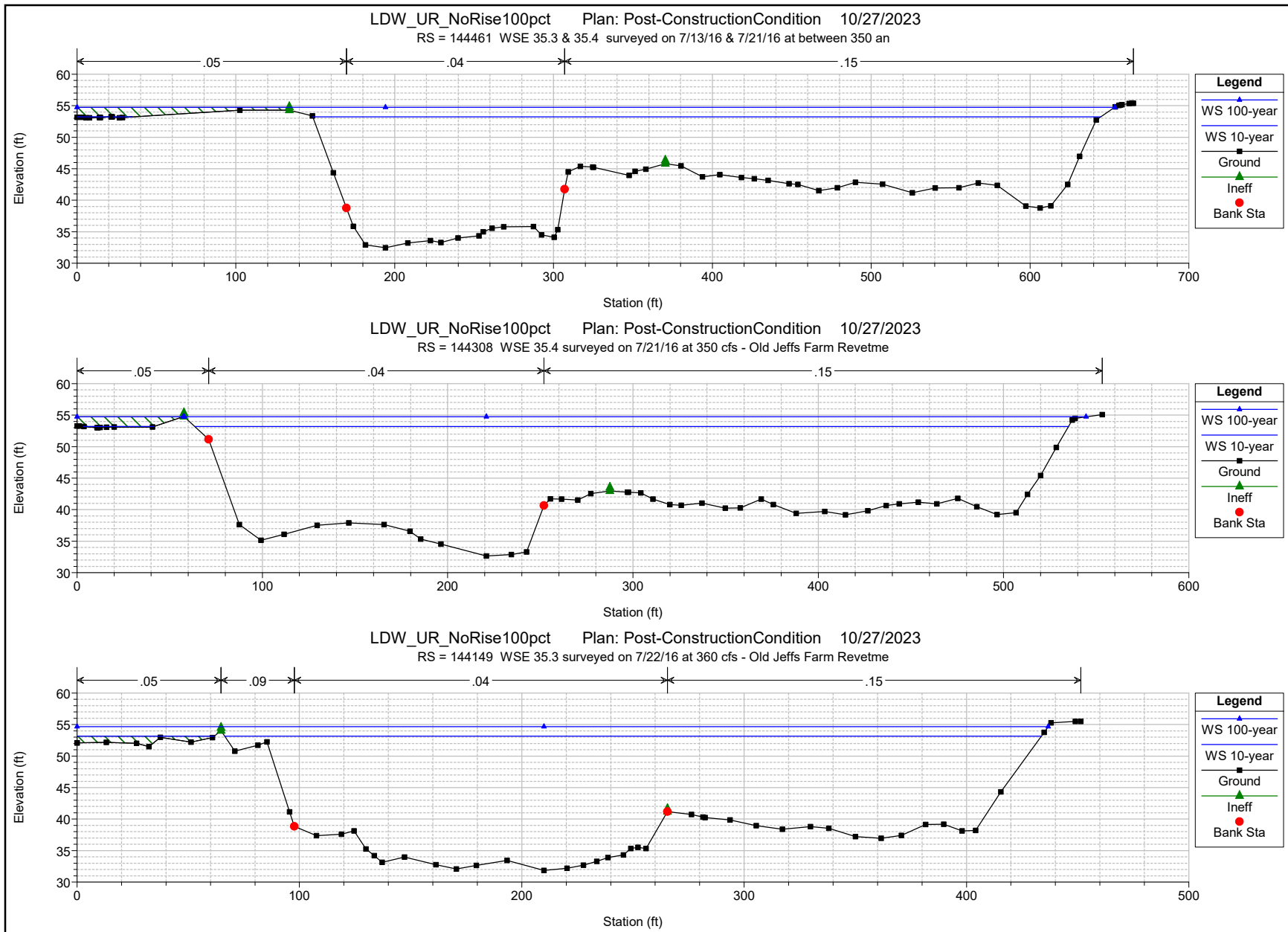


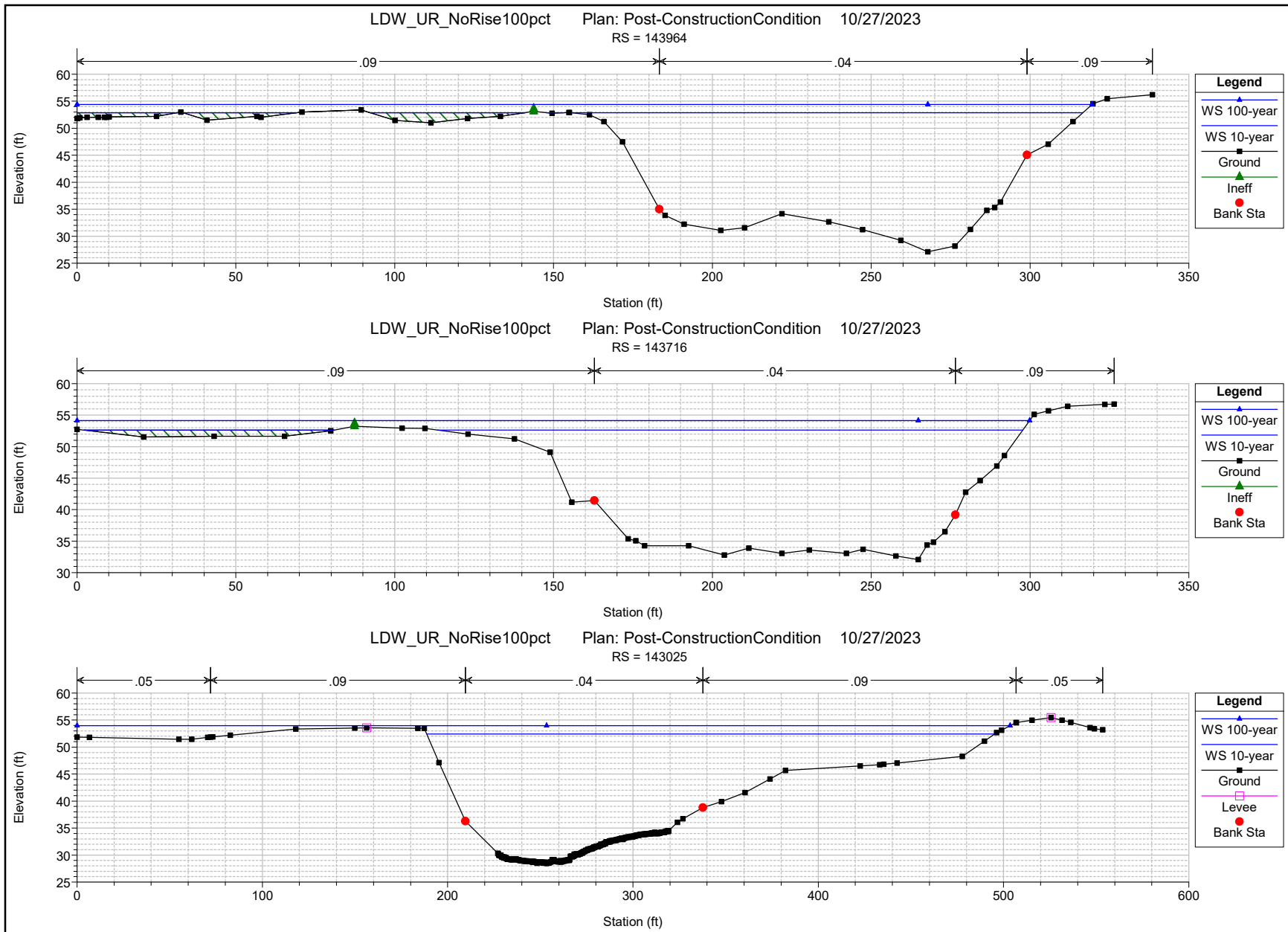
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 144741 WSE 35.8 & 35.95 surveyed on 7/18/16 and 7/28/16 at 355 cfs - OI

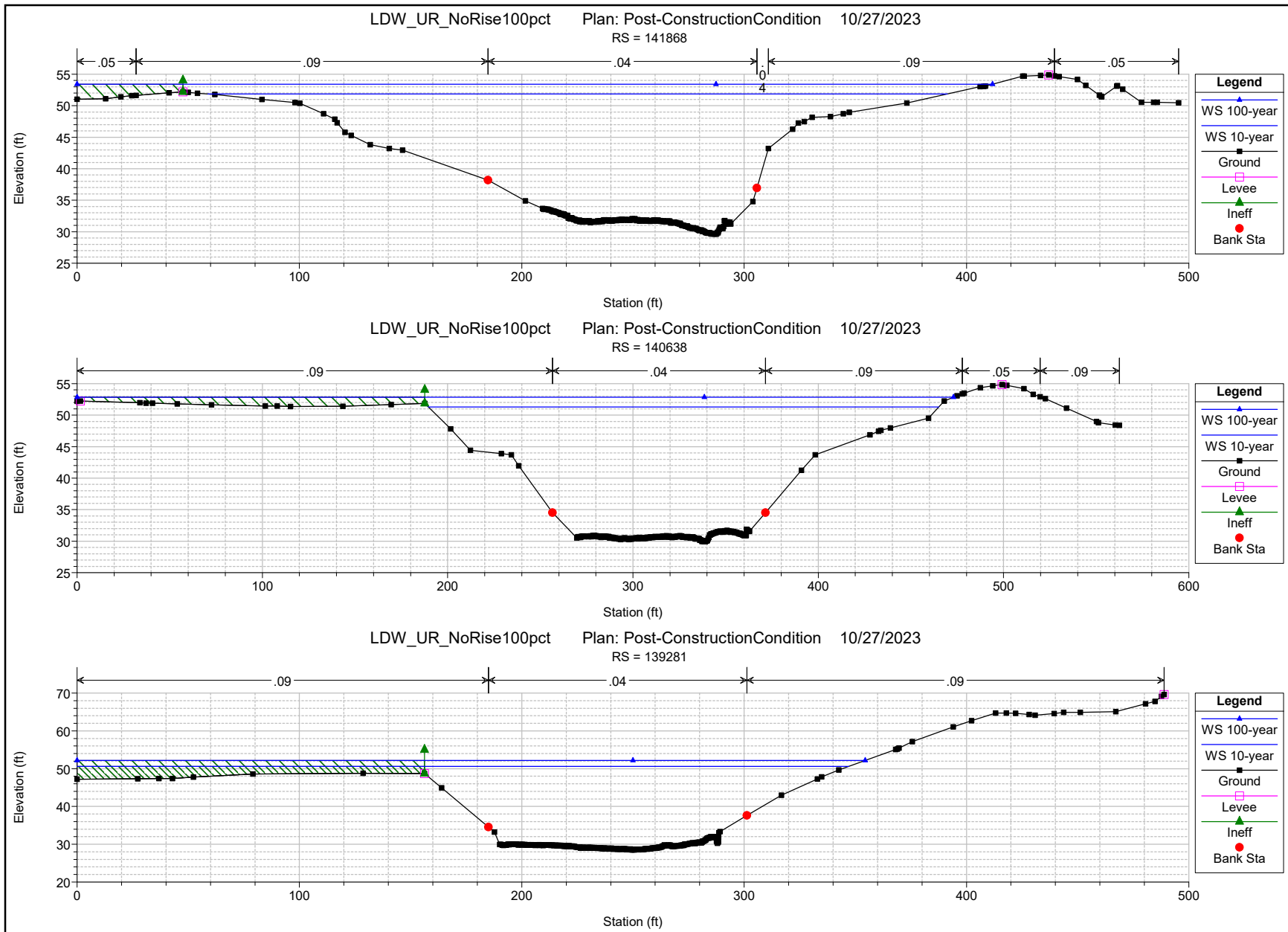


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 144614 WSE 35.8 surveyed on 7/18/16 and 7/28/16 at 355 cfs - Old Jeffs

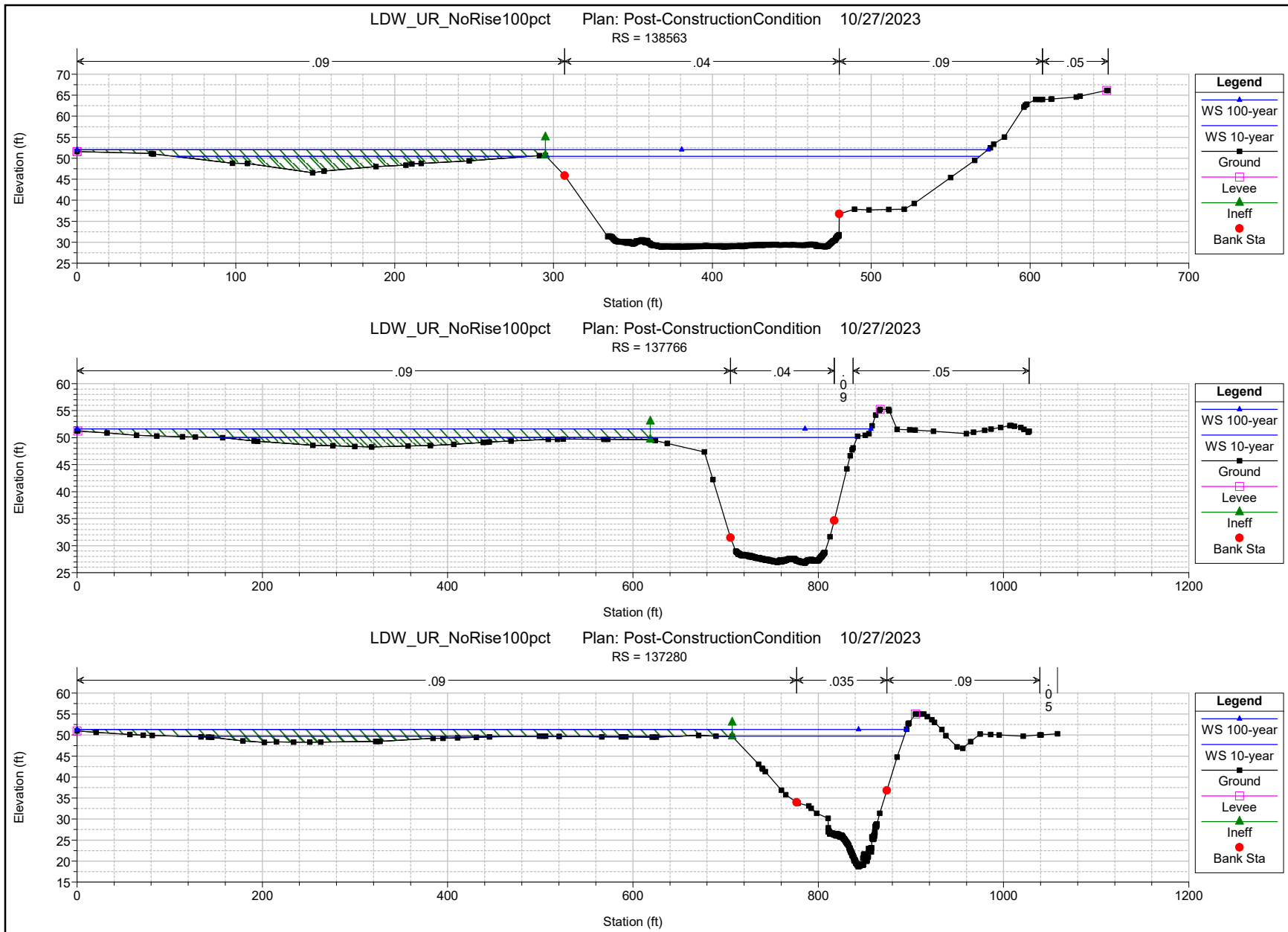


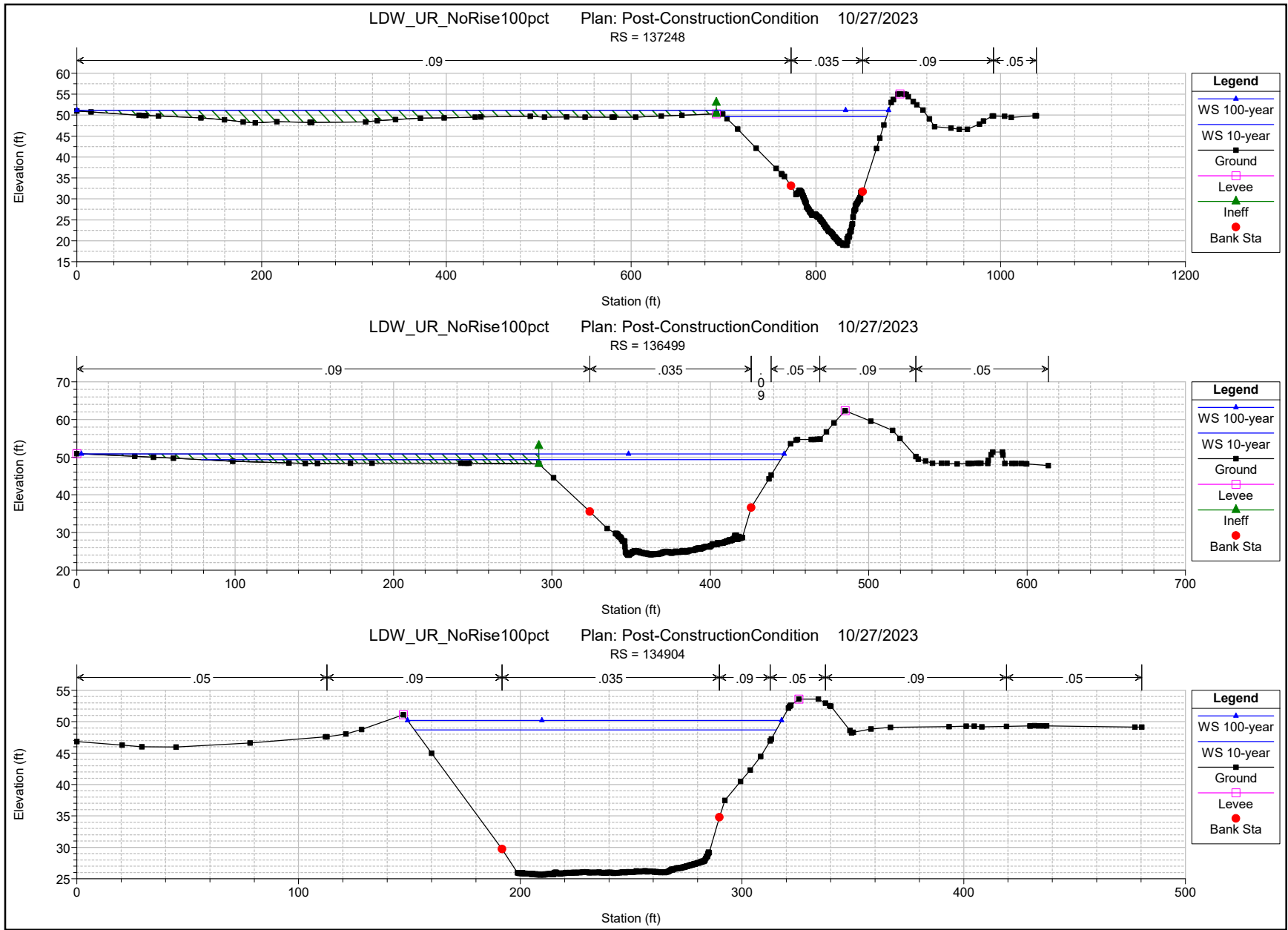


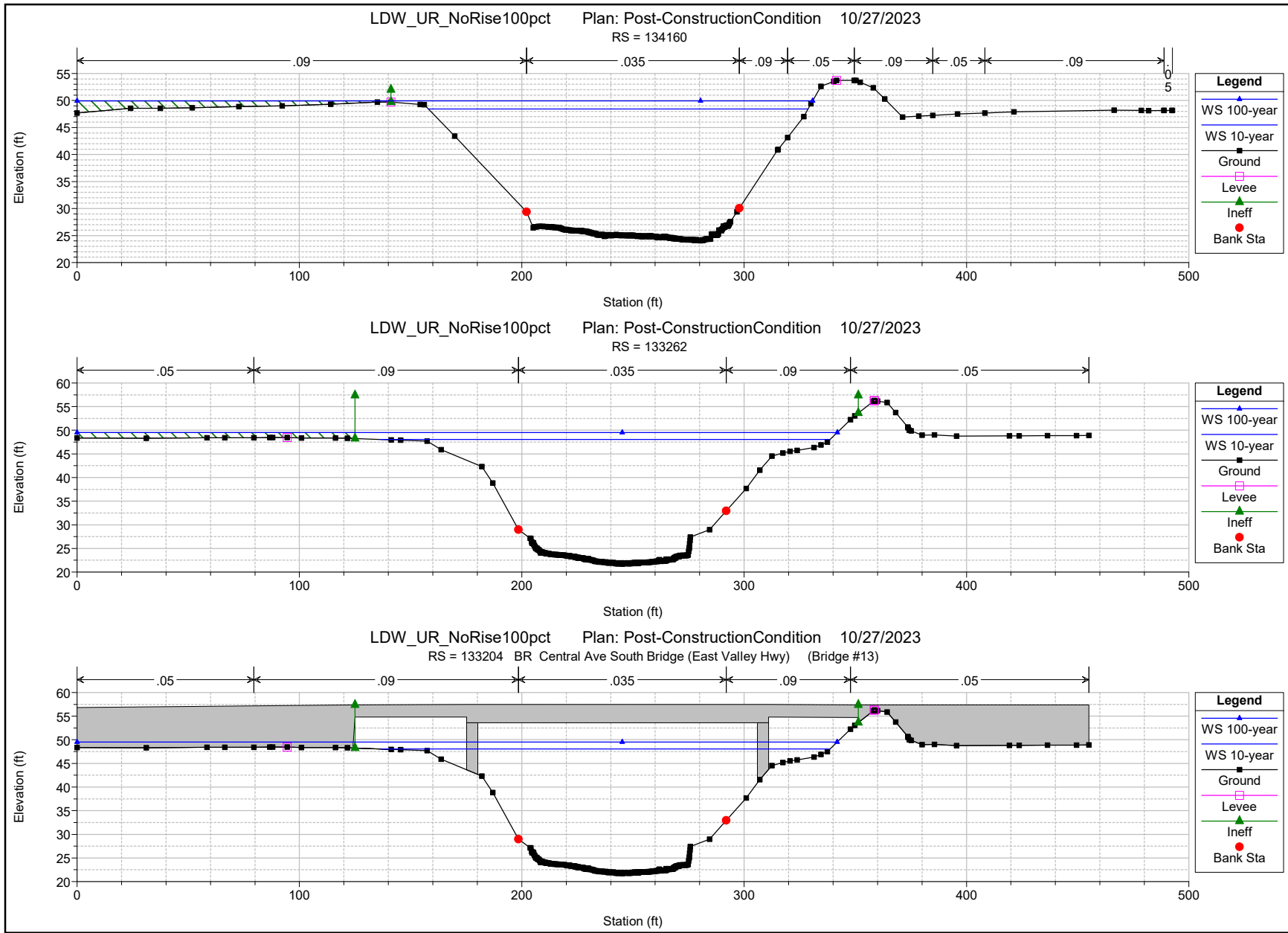


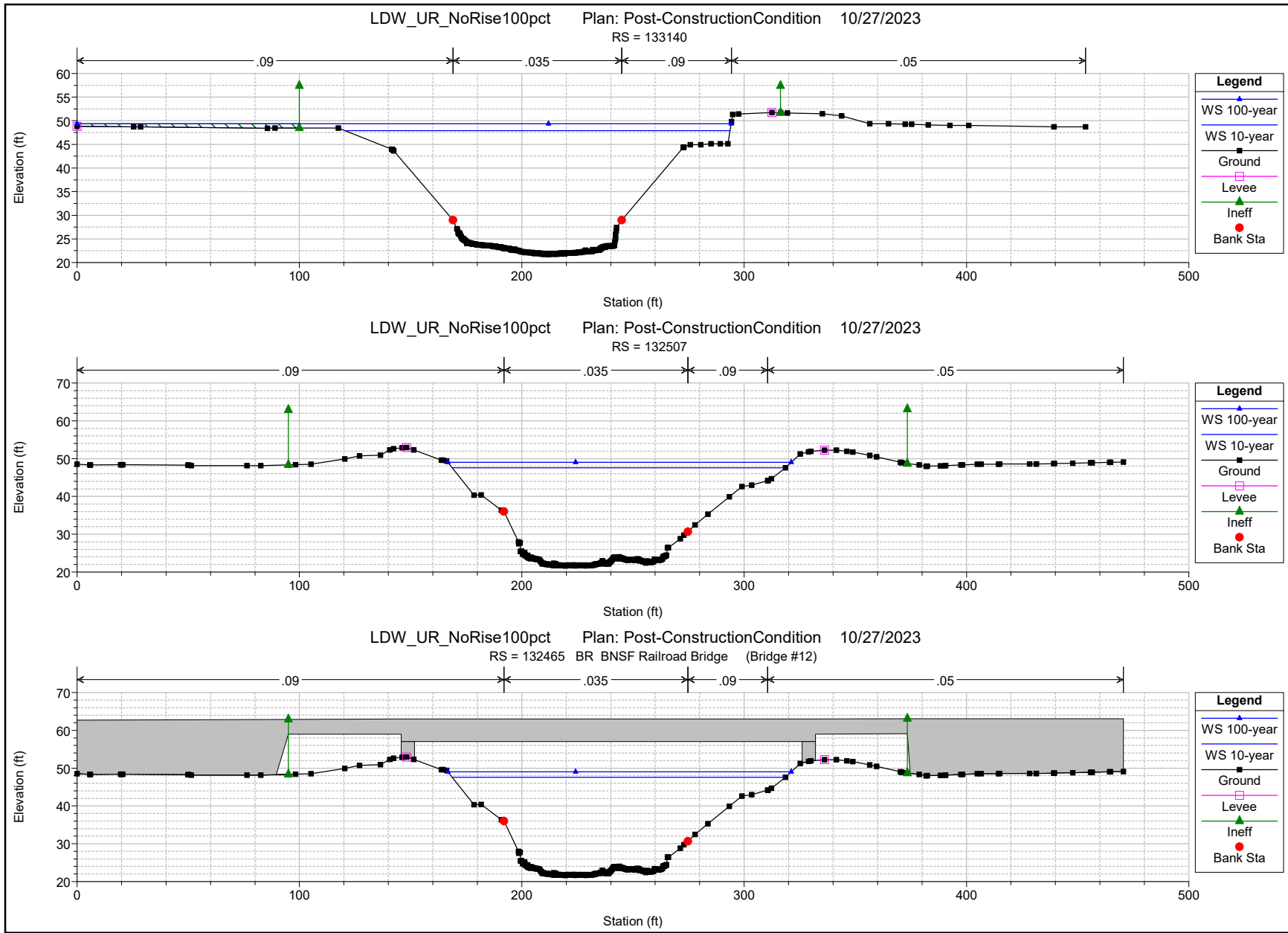


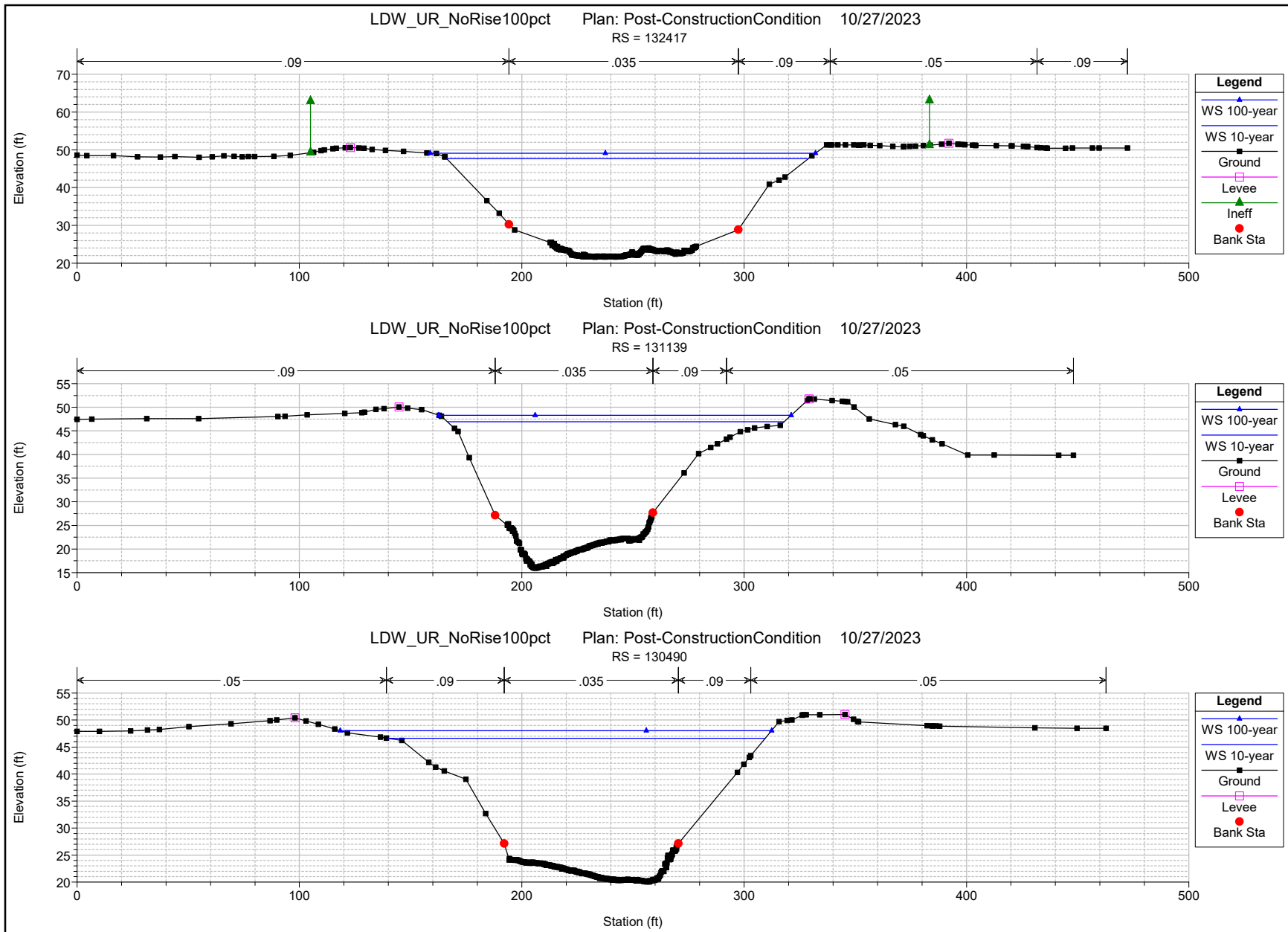


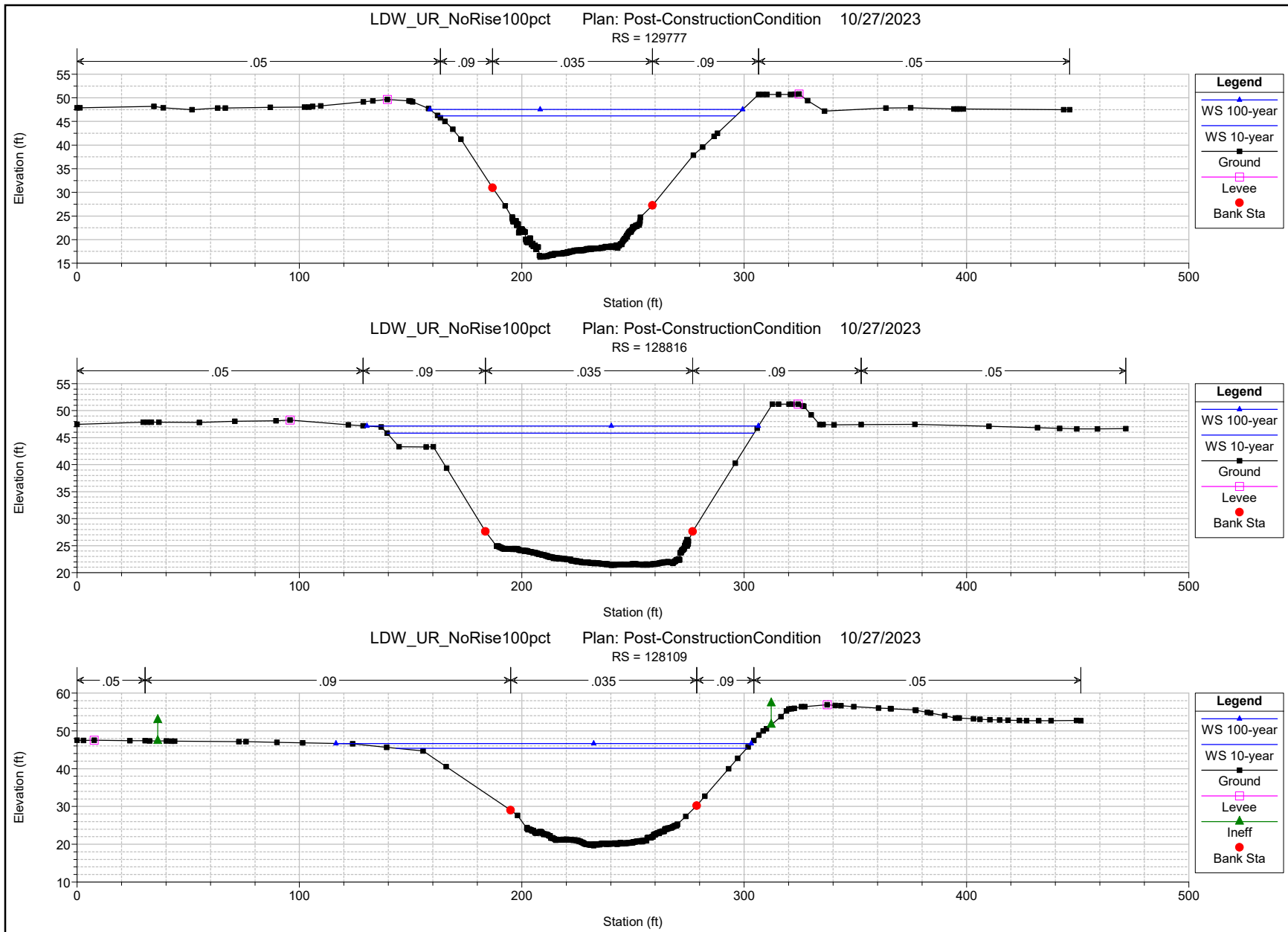


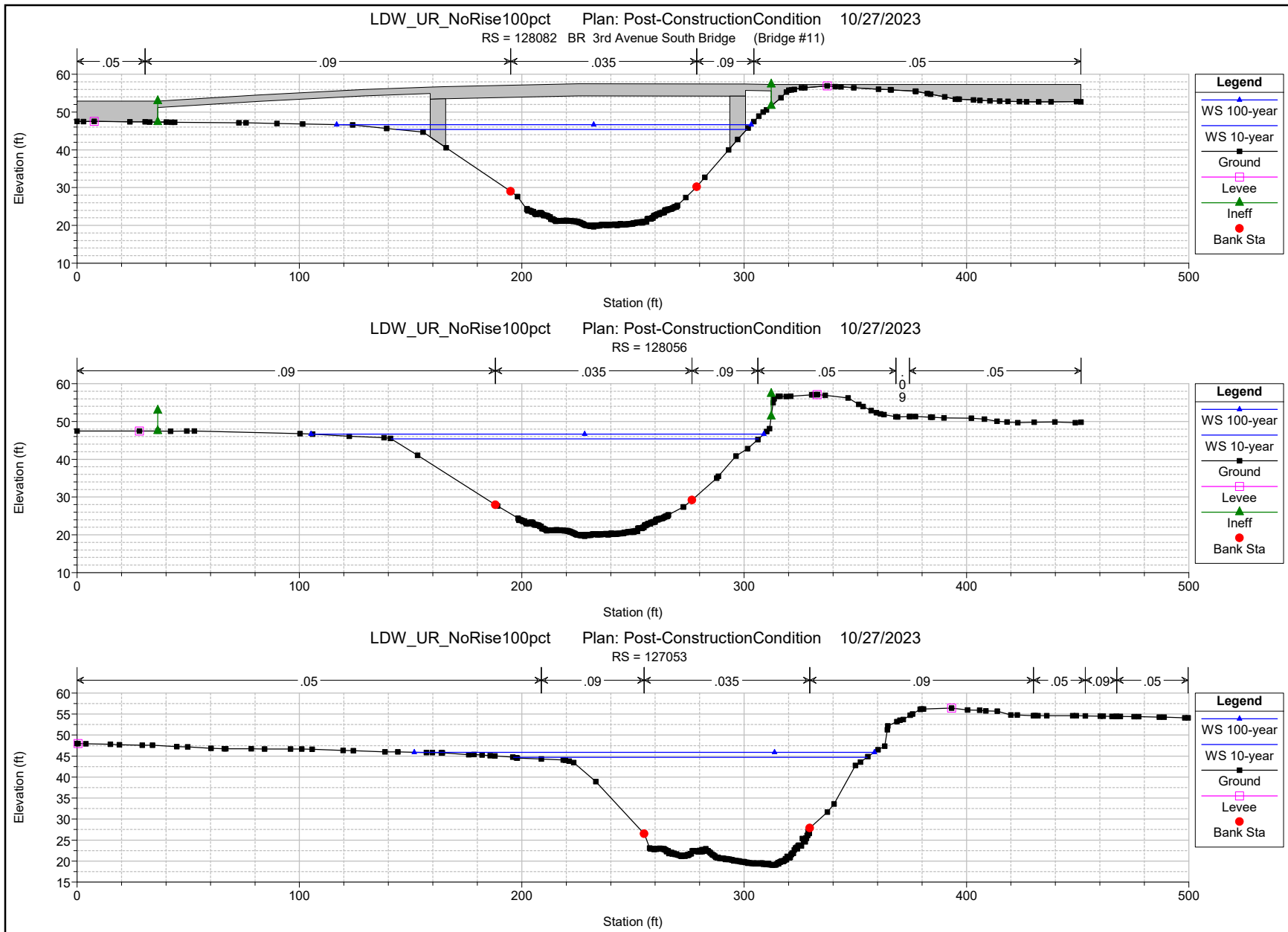


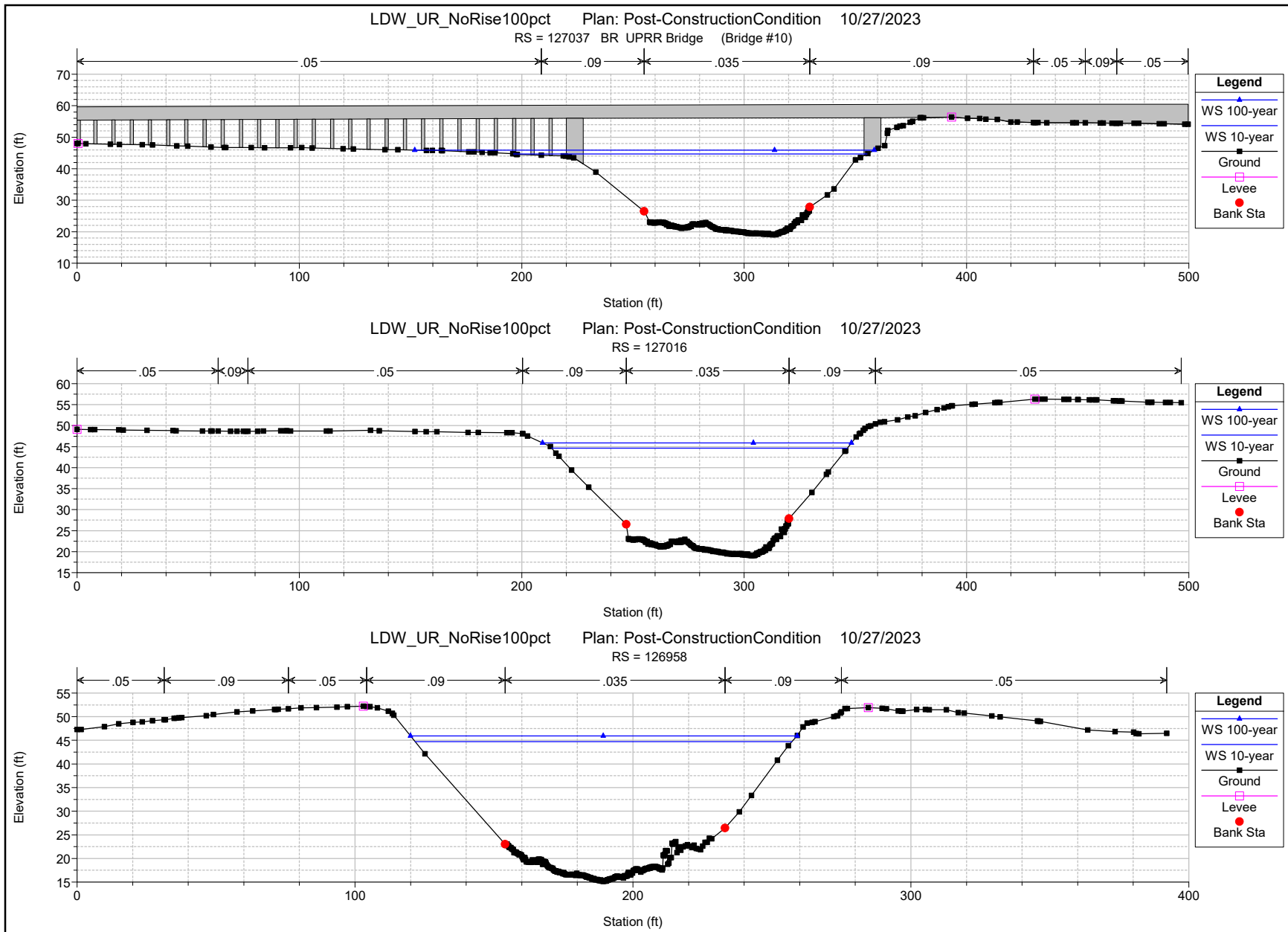




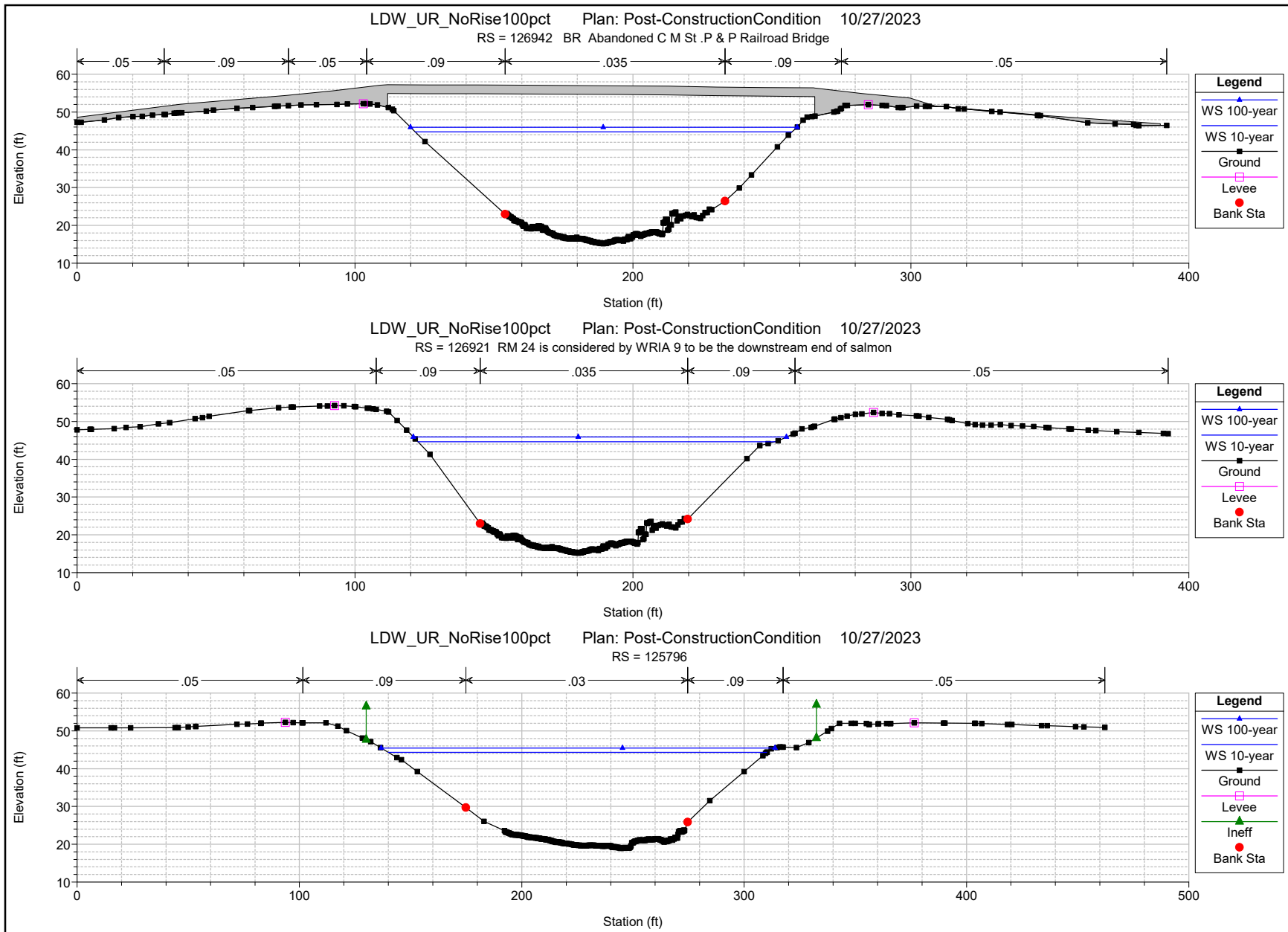


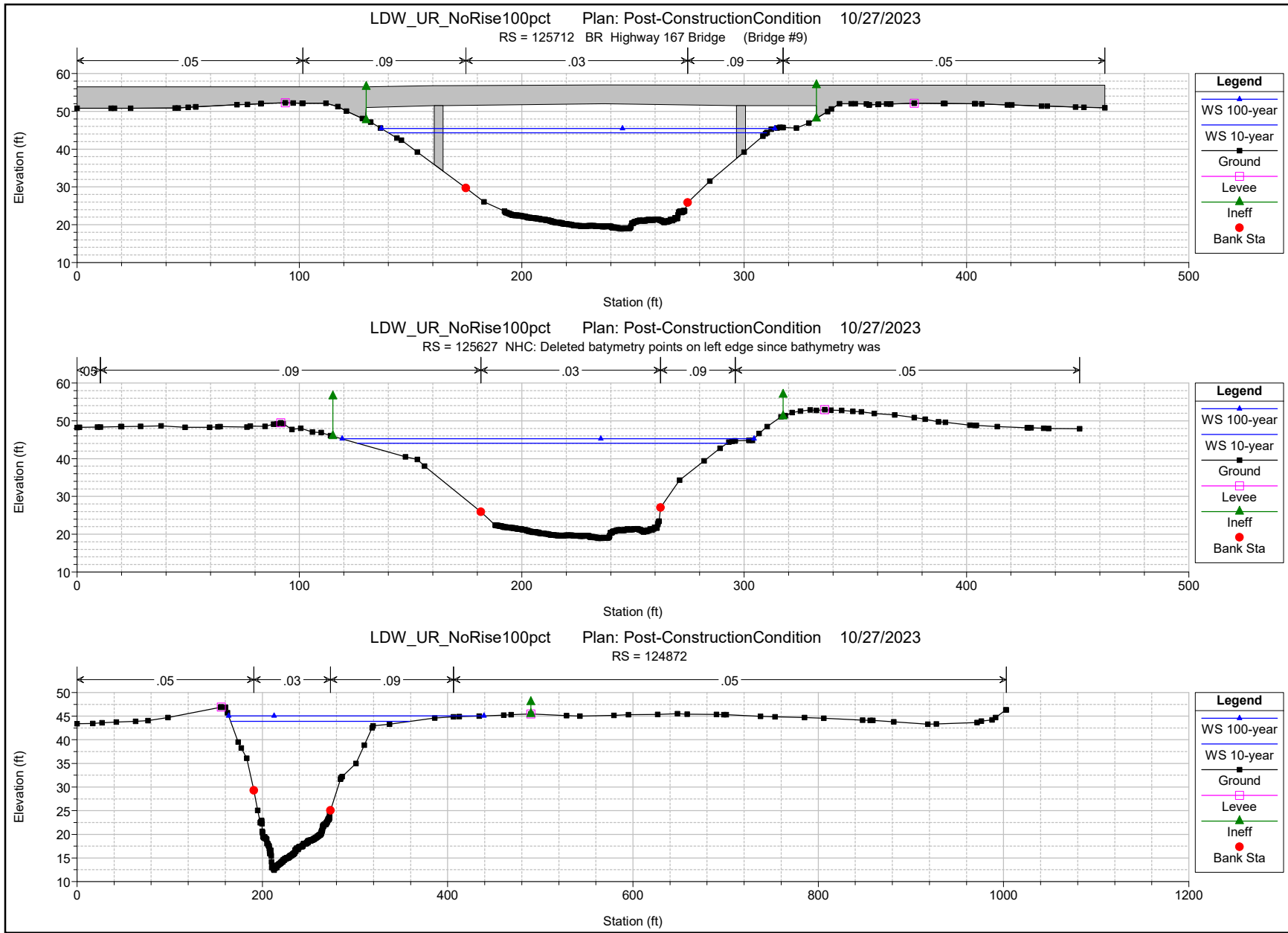


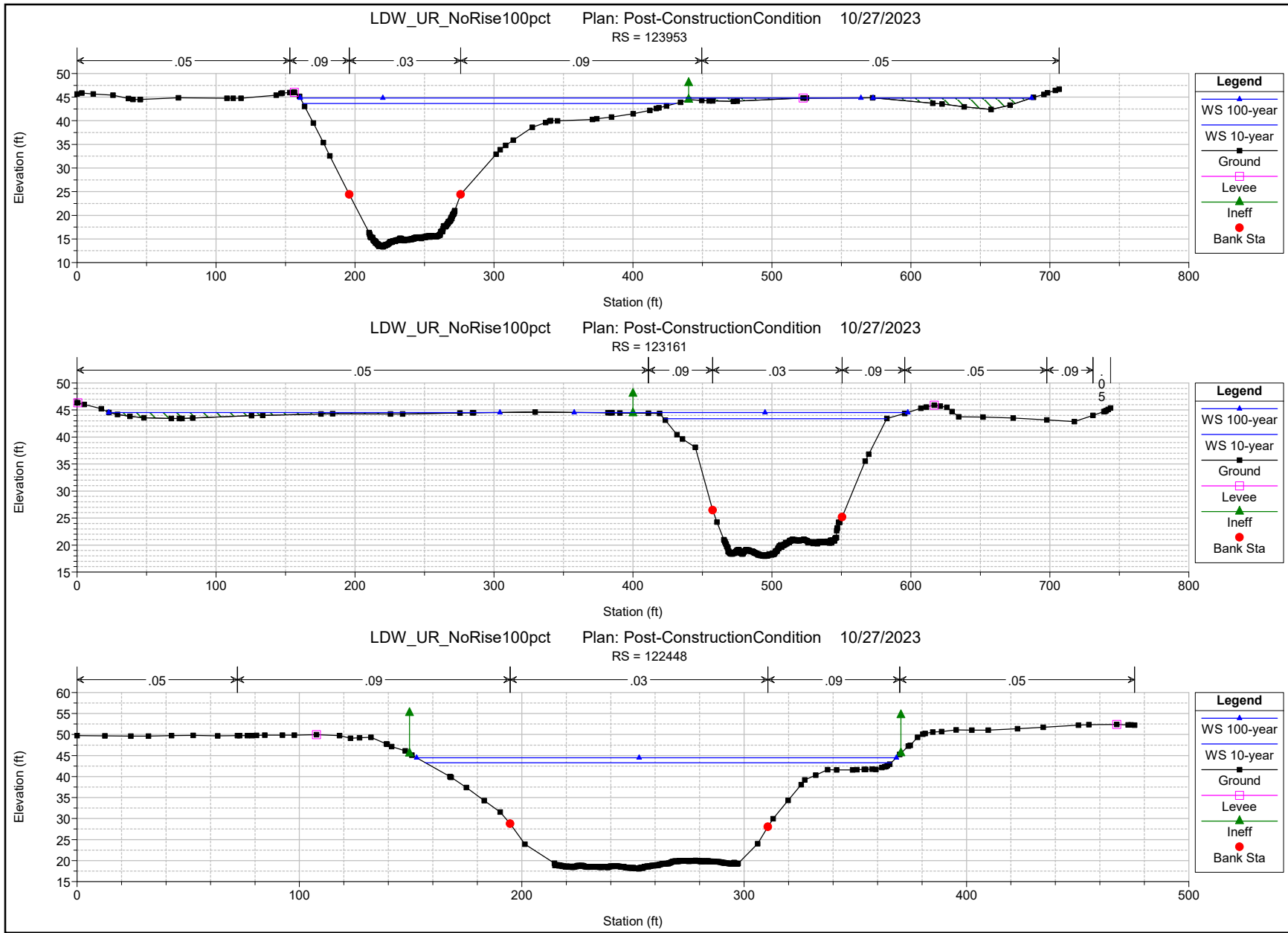


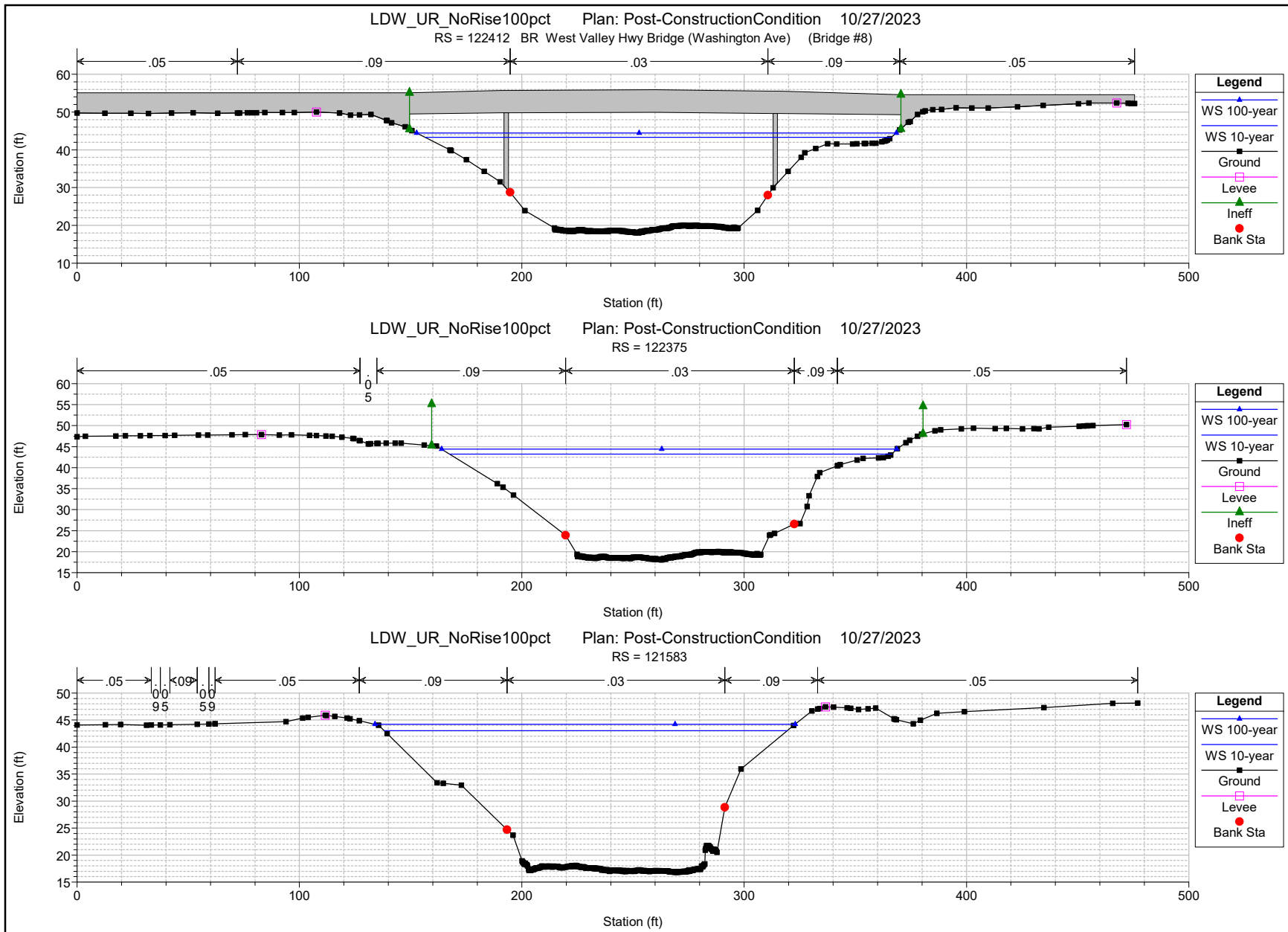


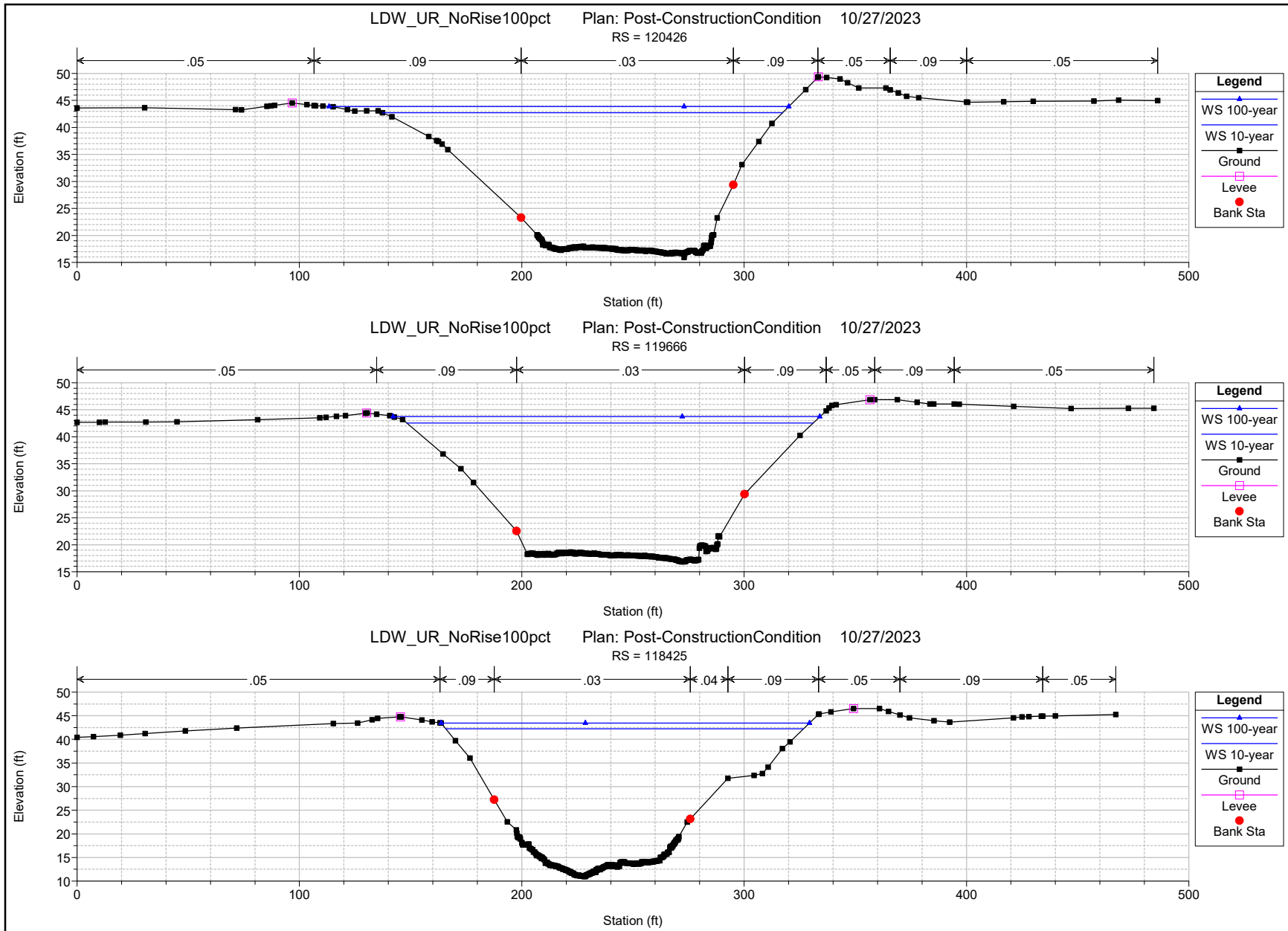


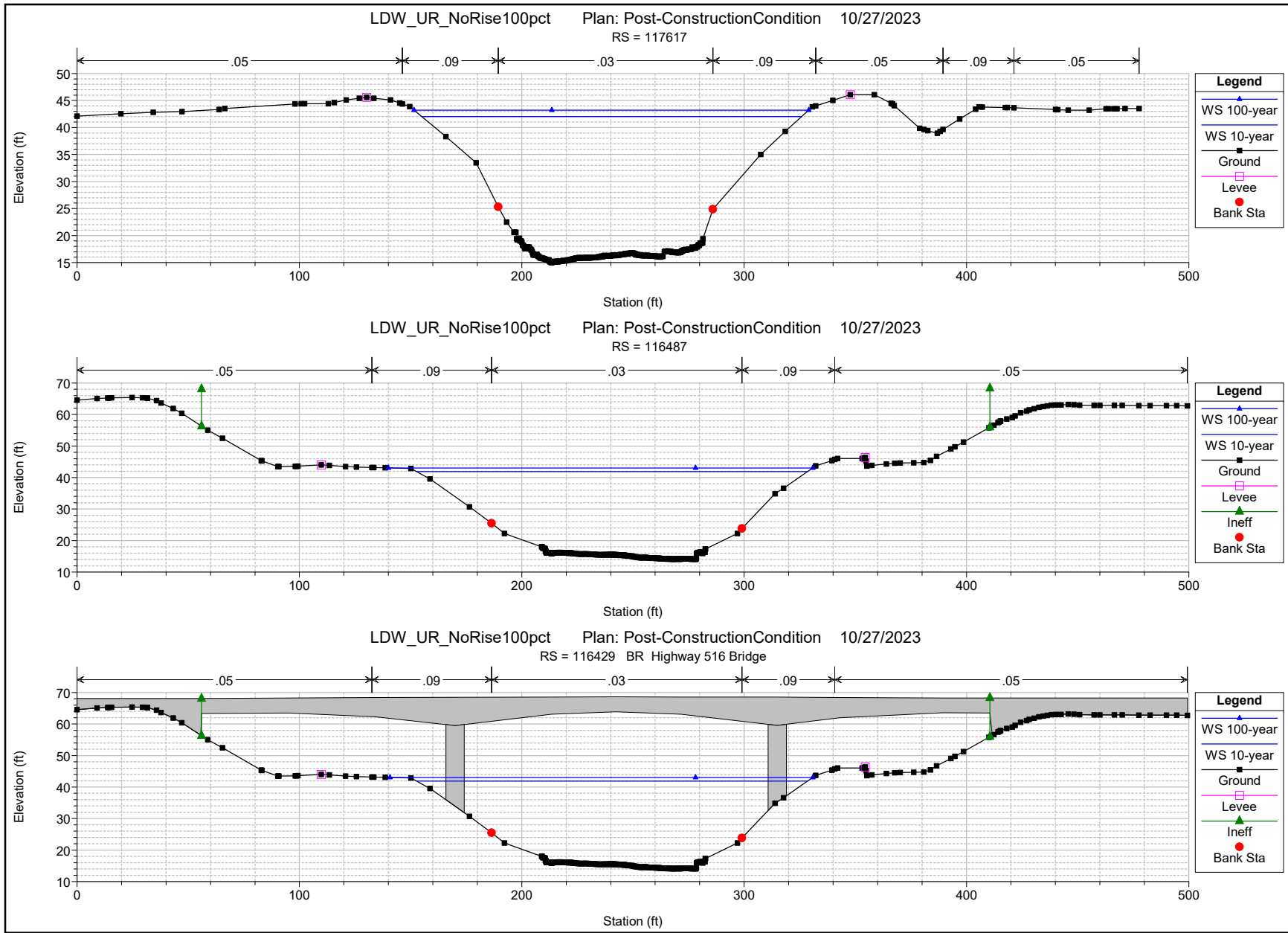




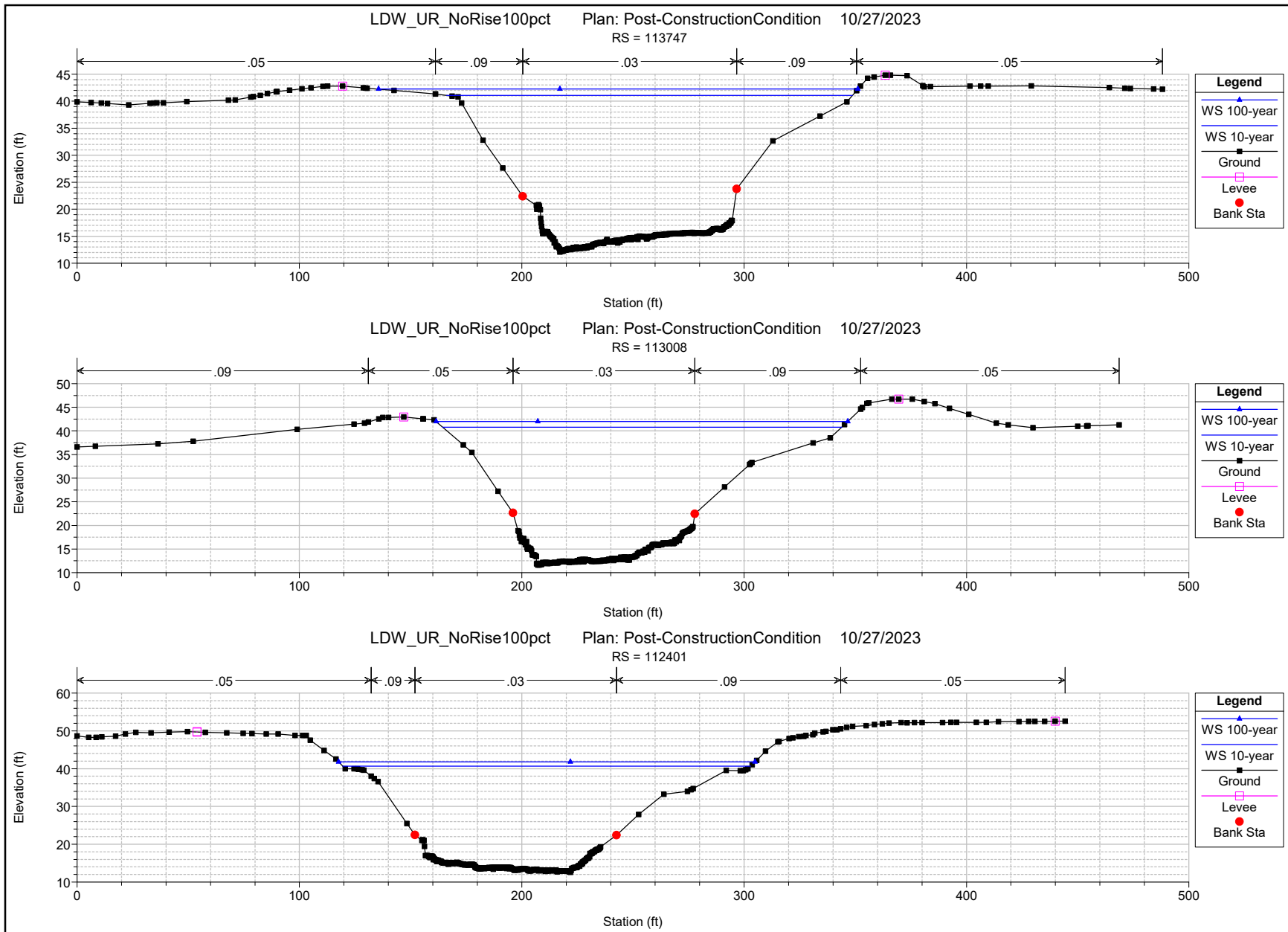




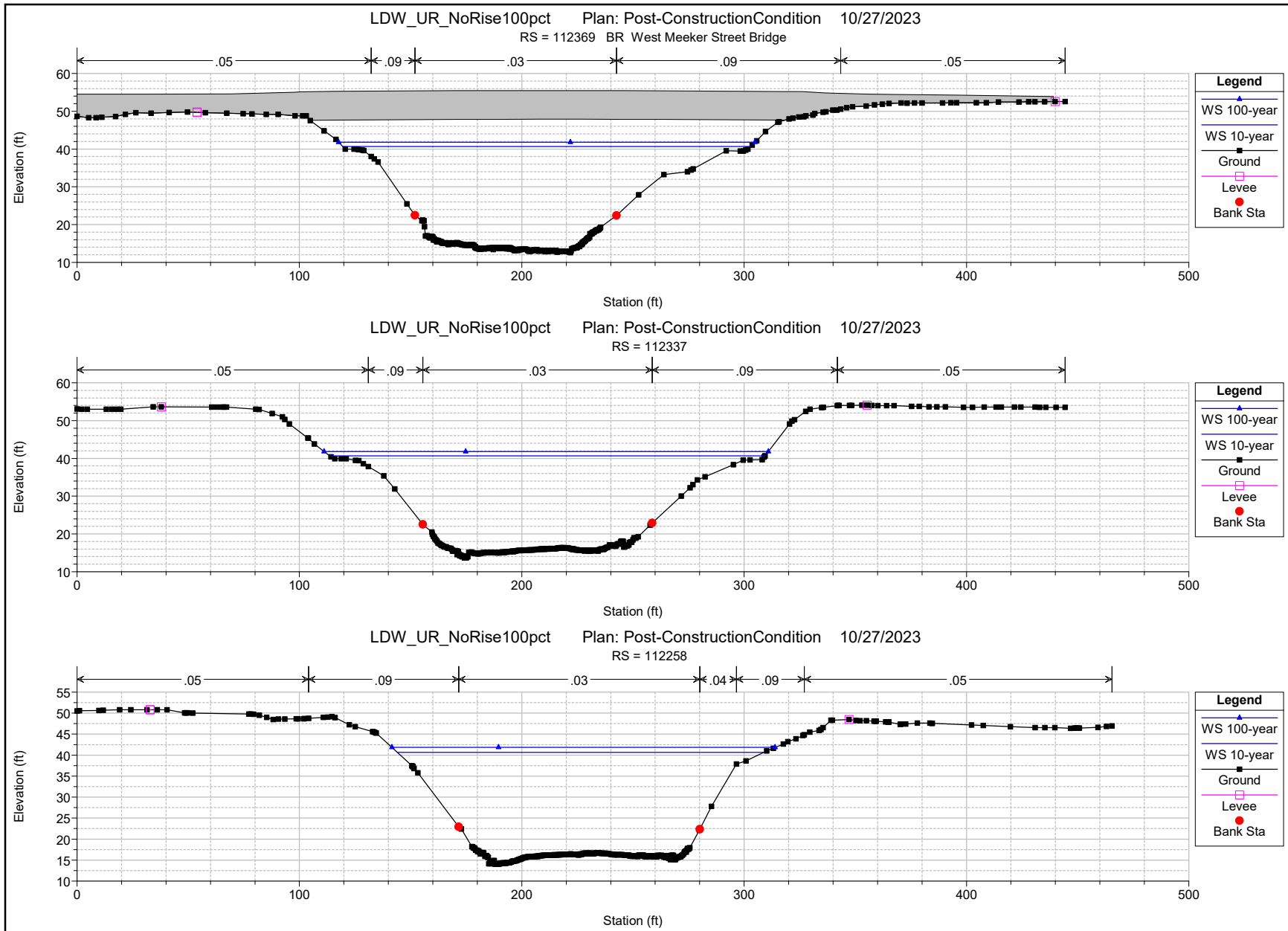


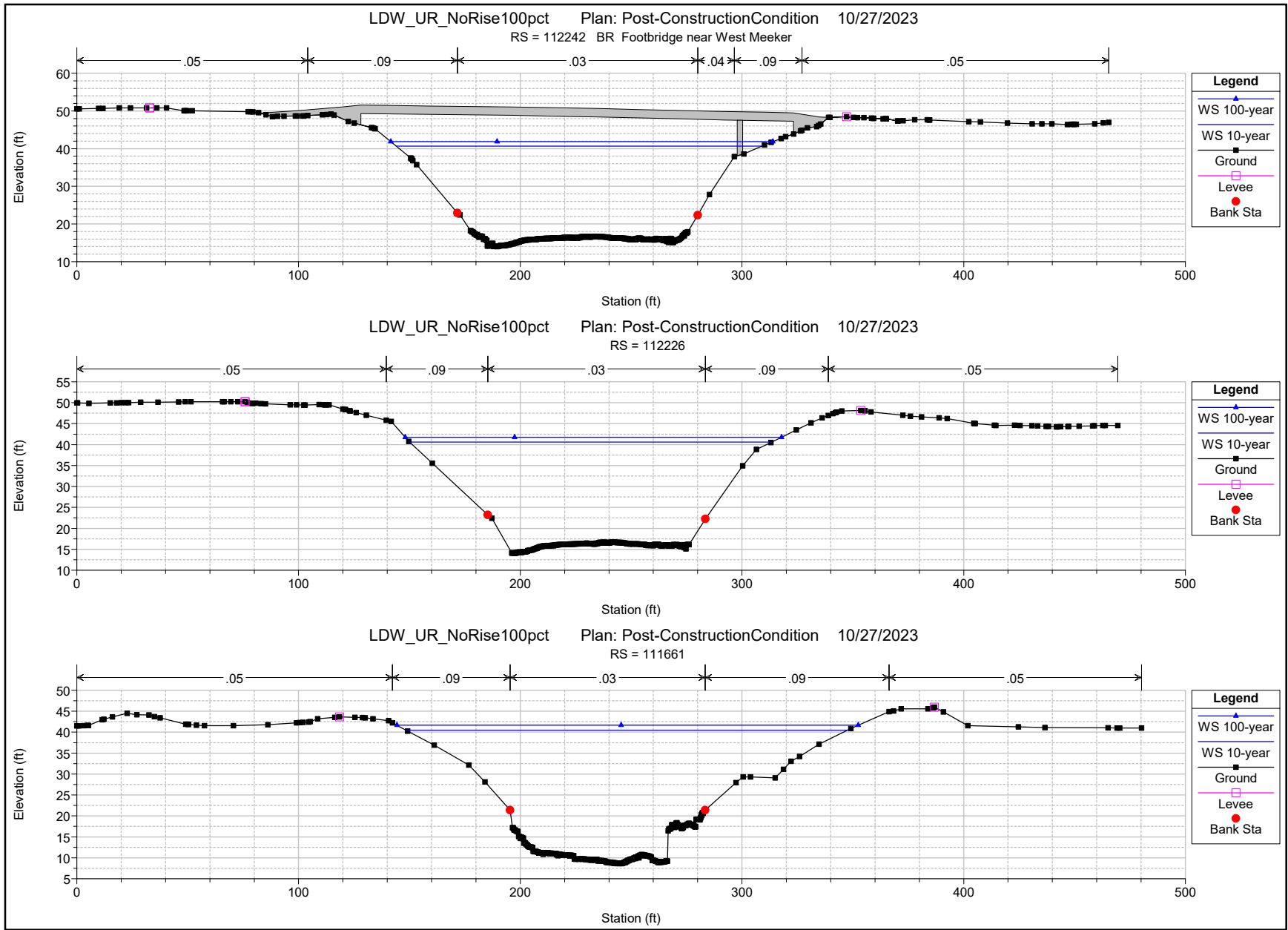


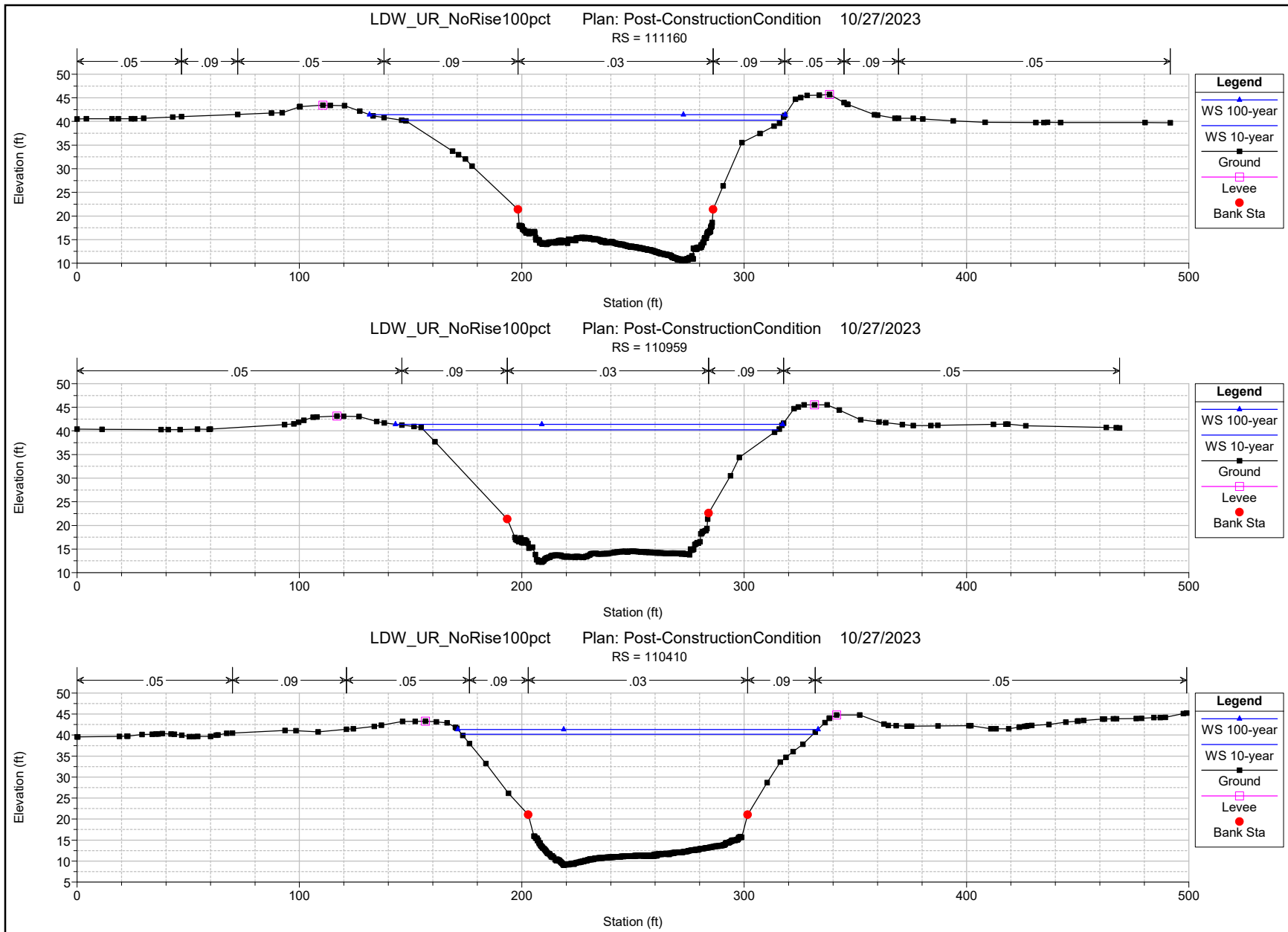


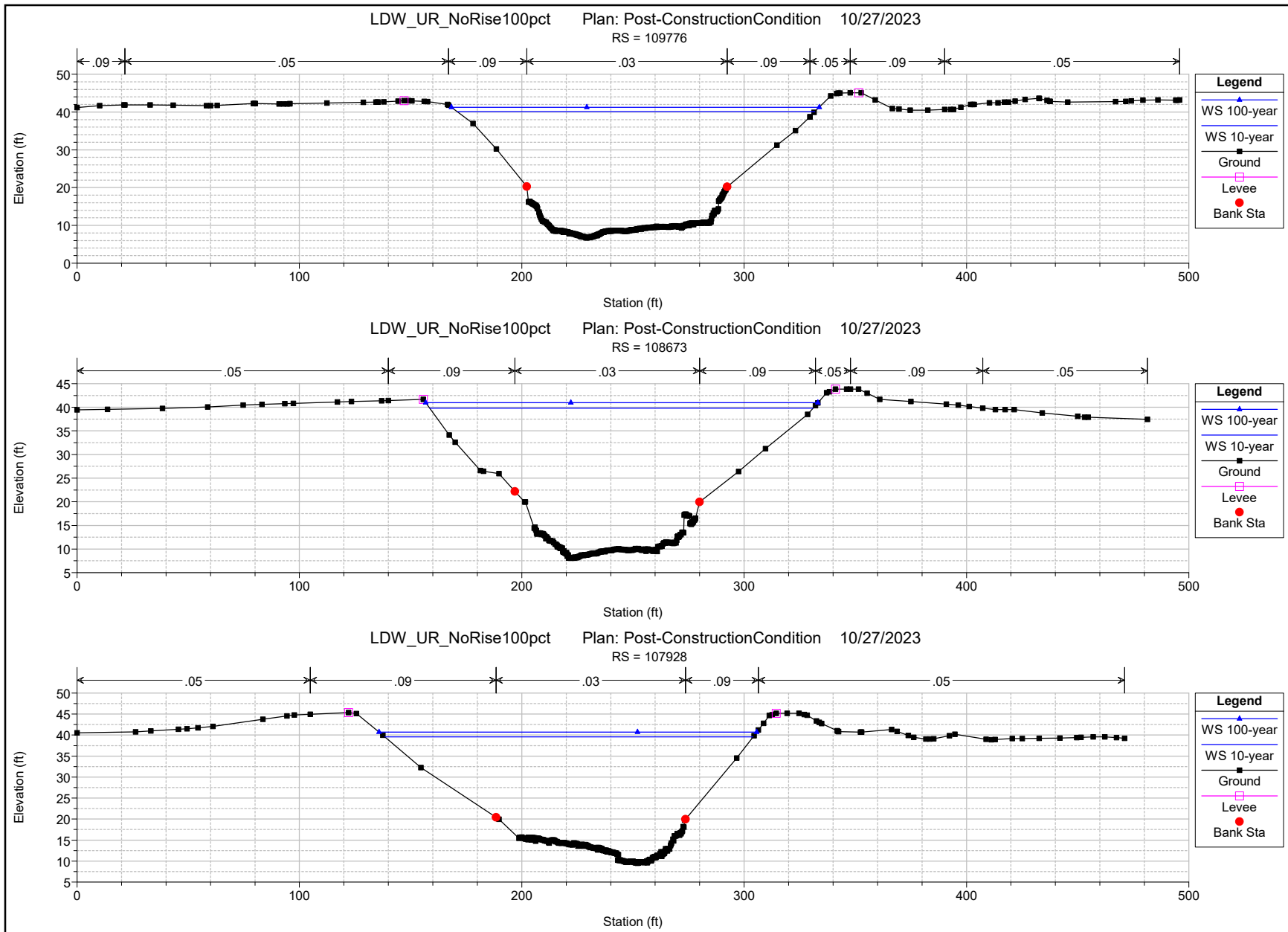


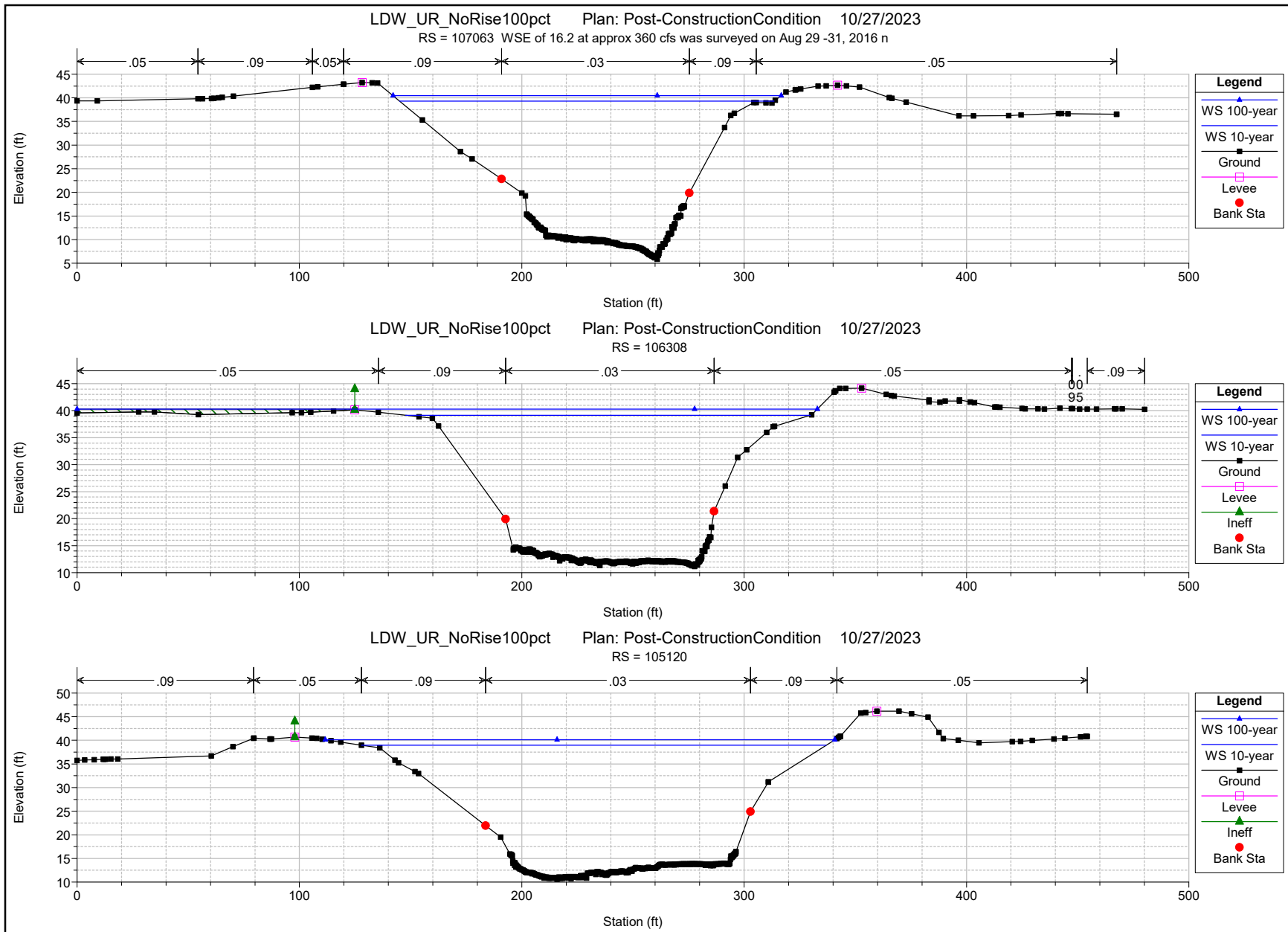


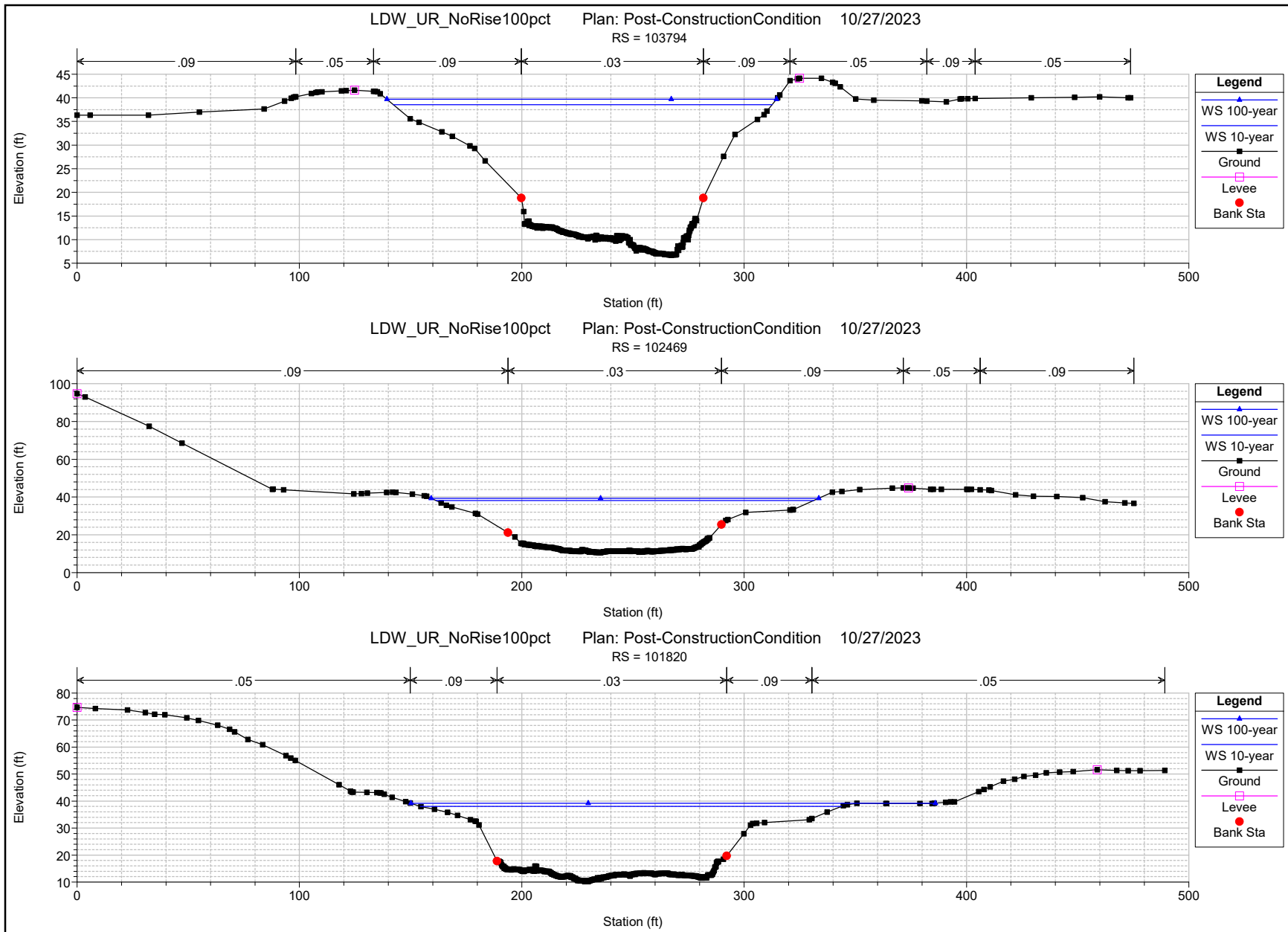


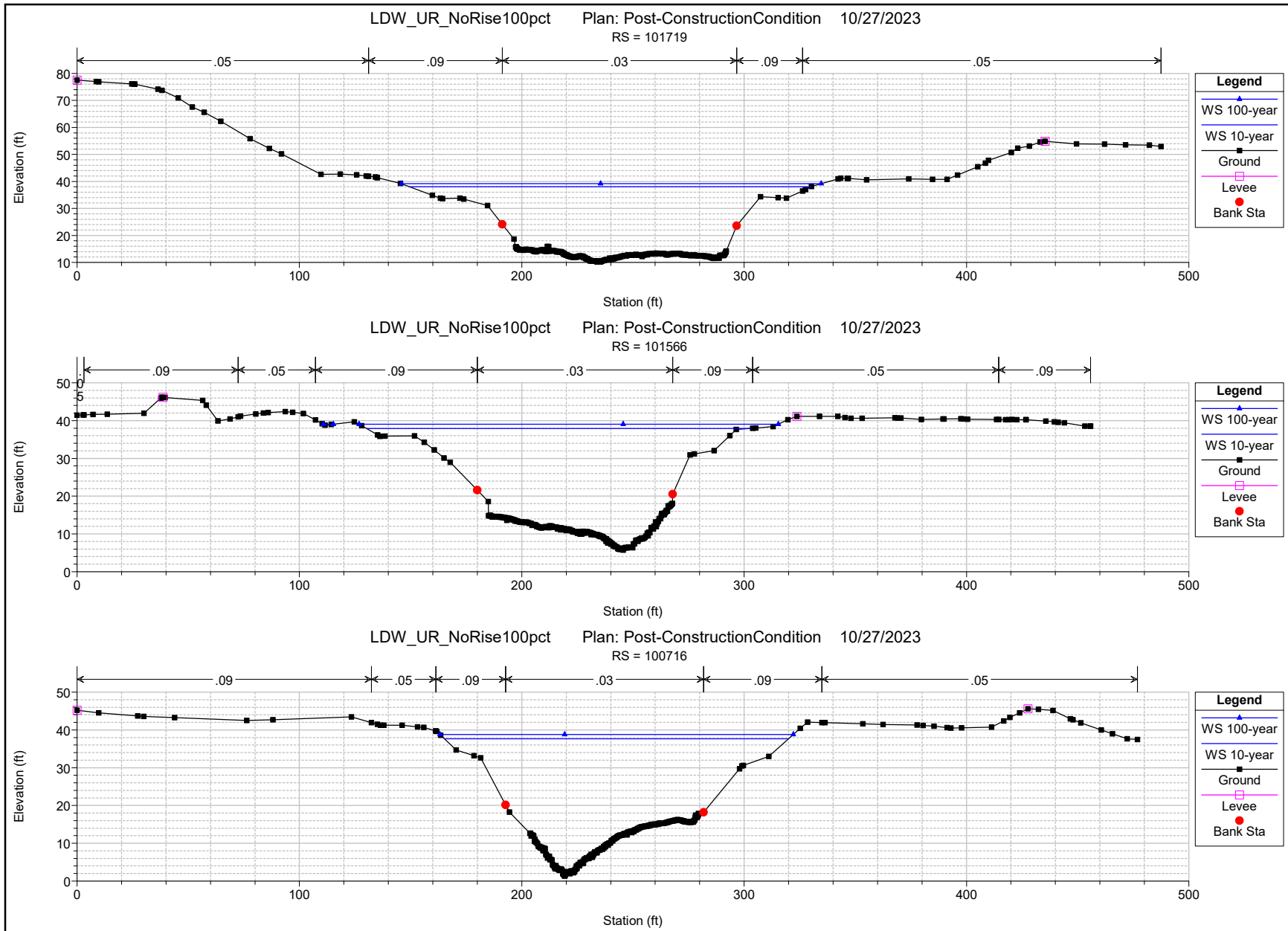


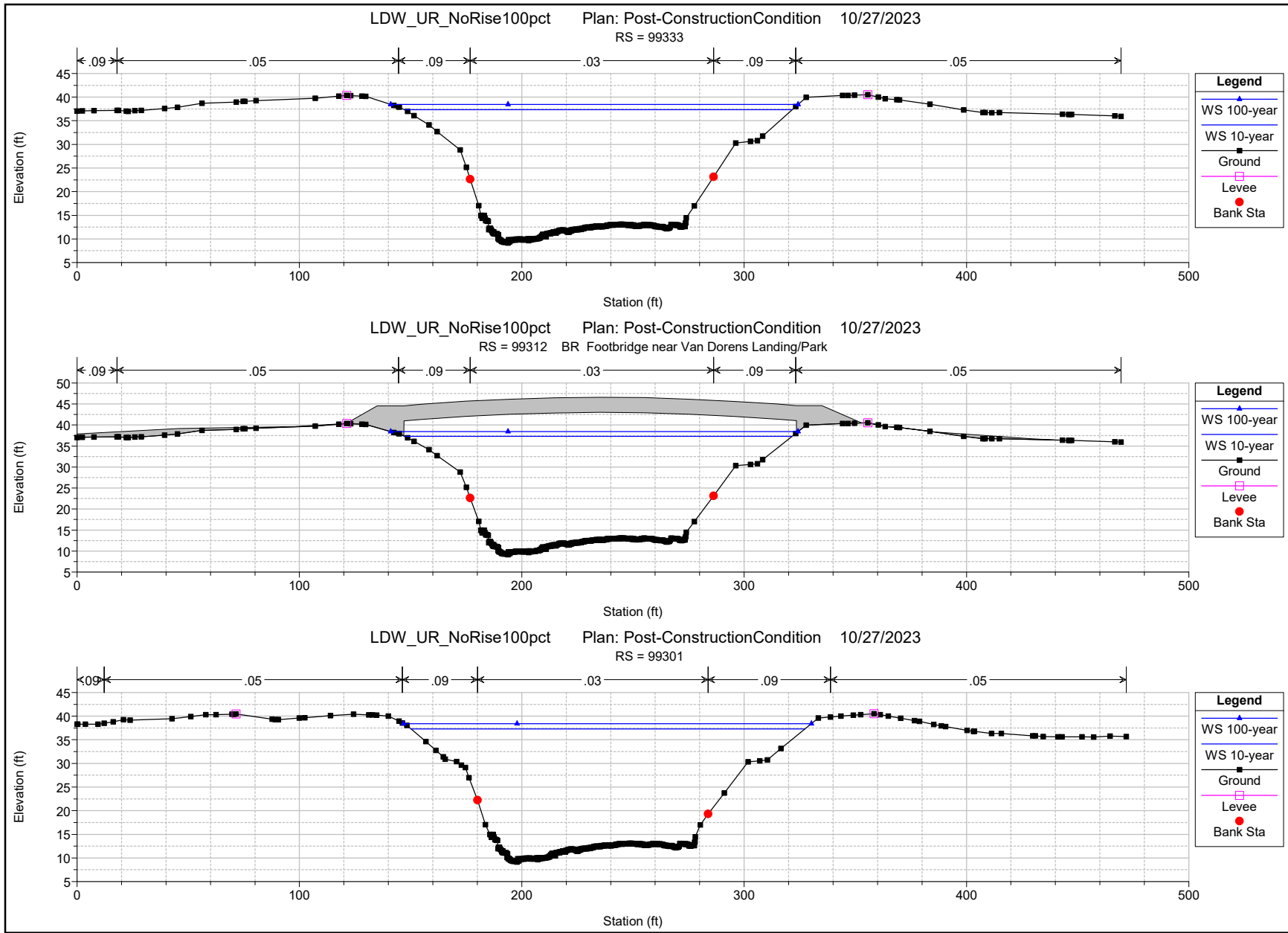




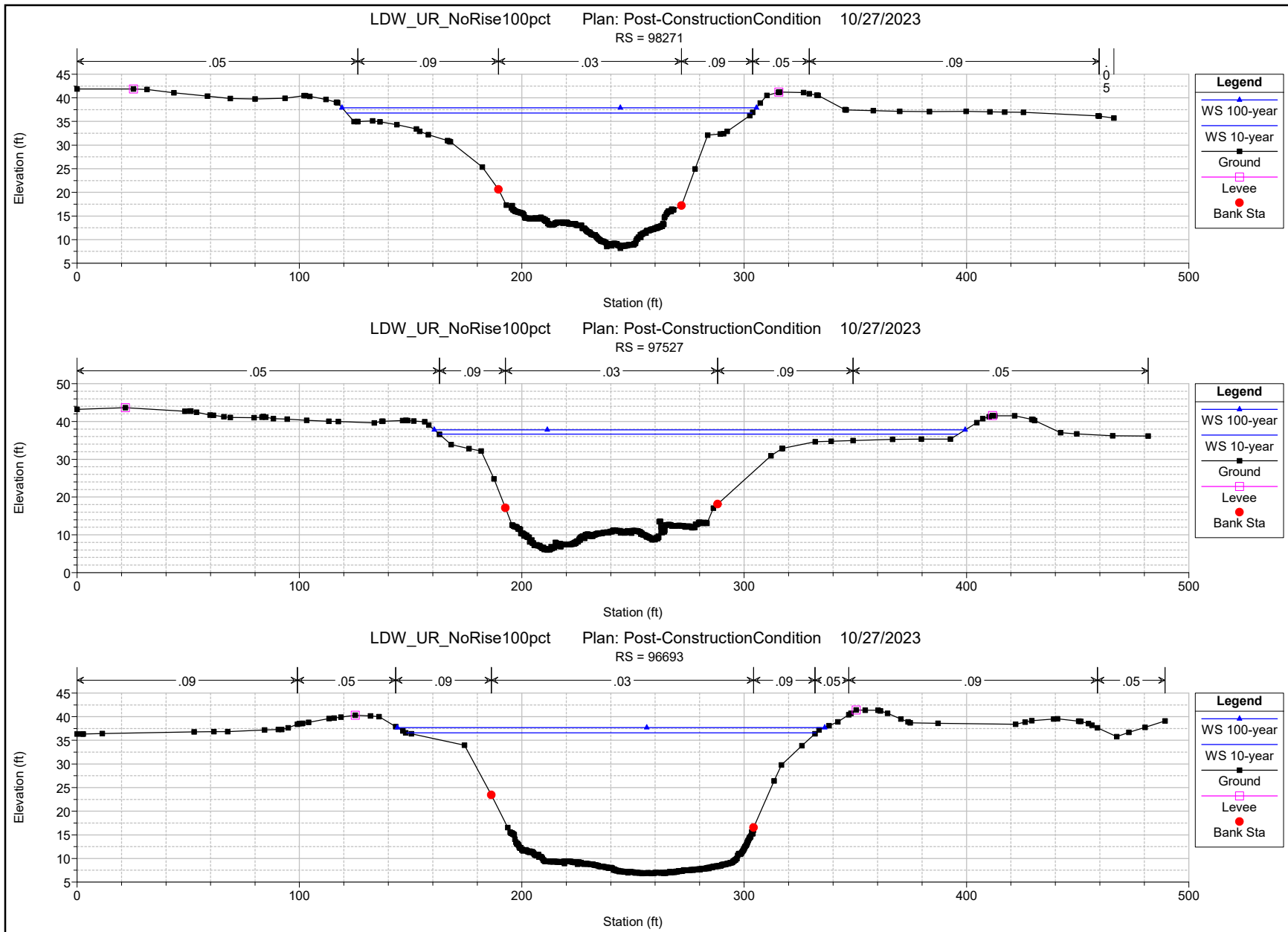


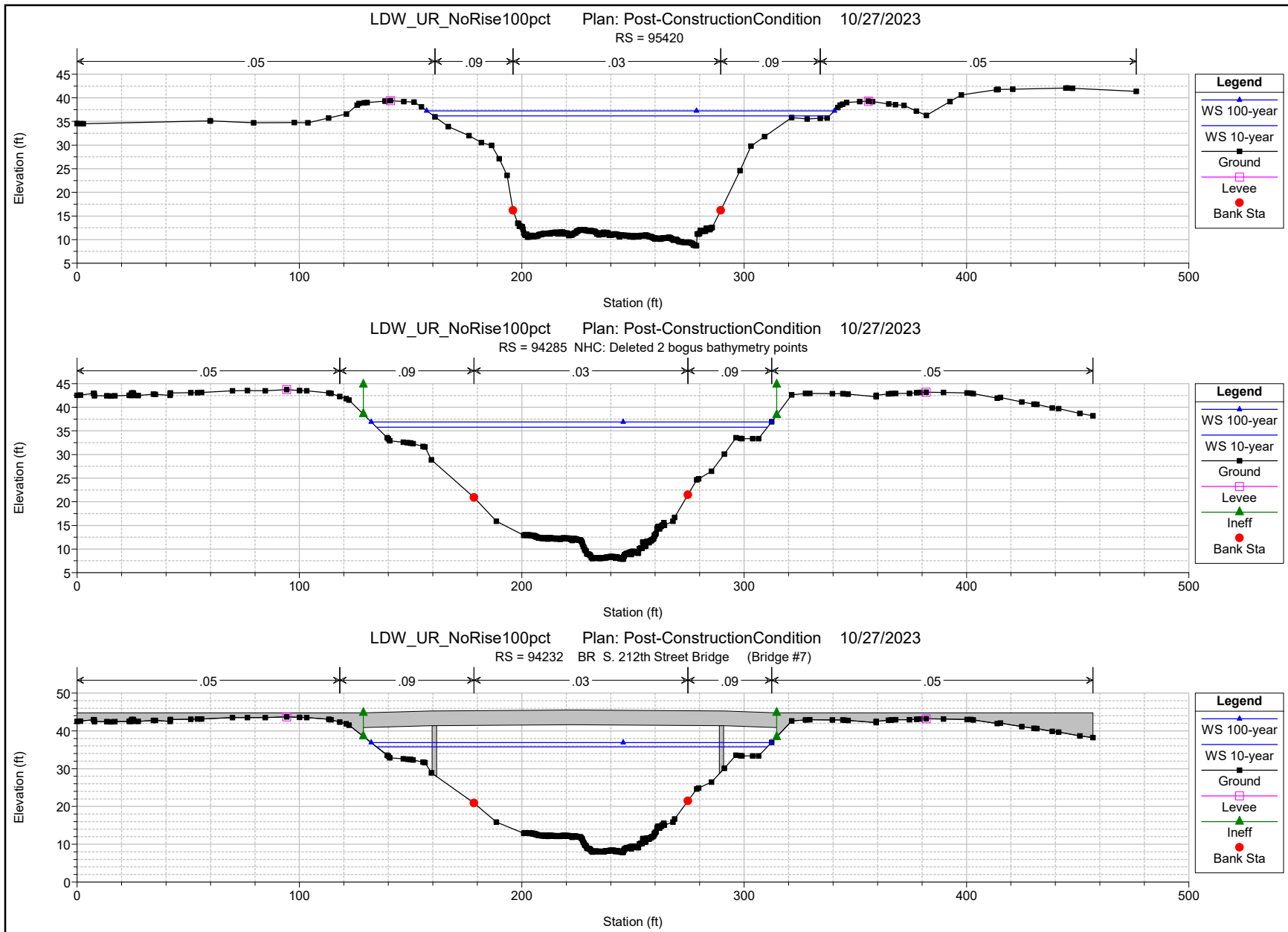


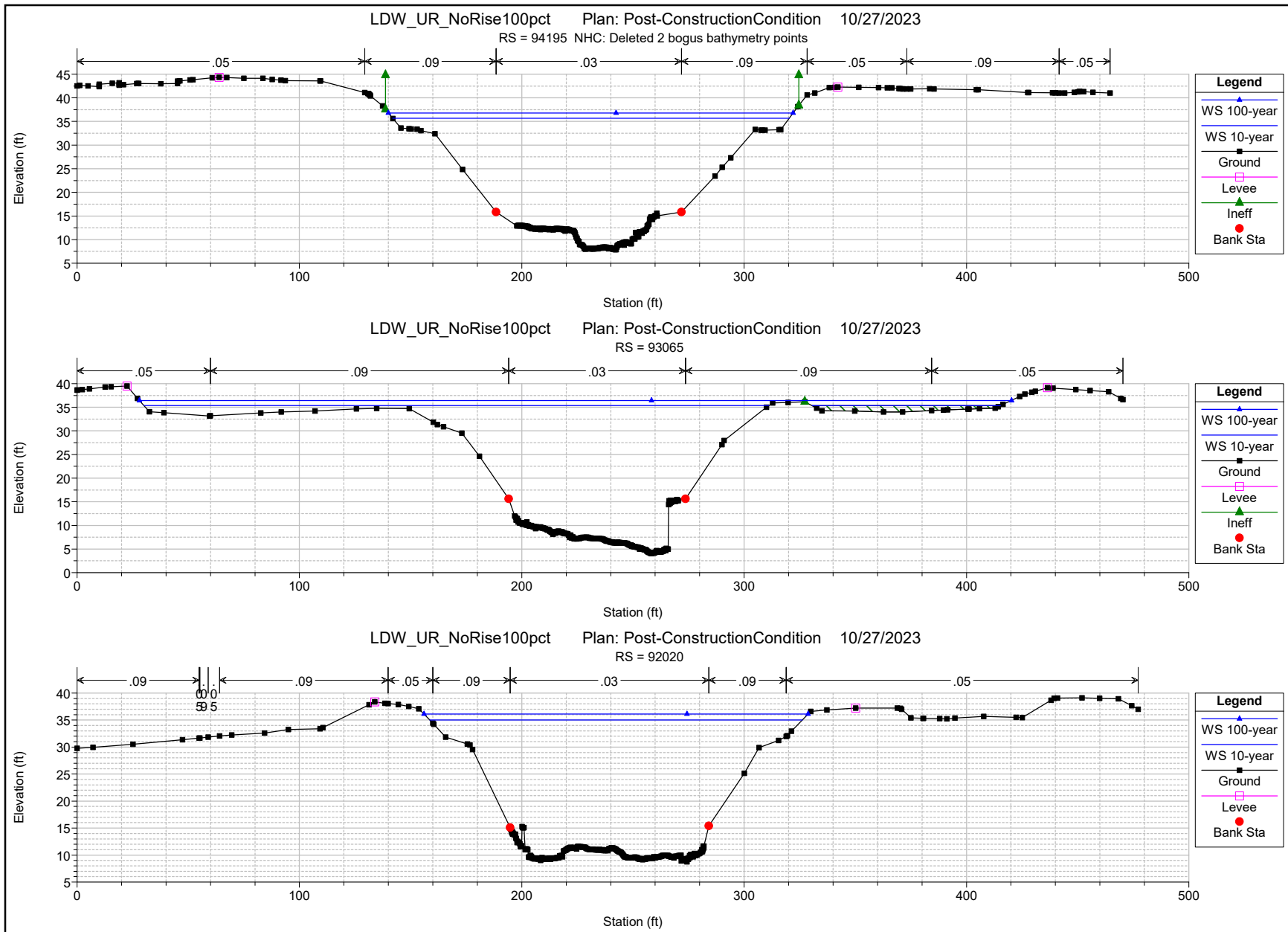


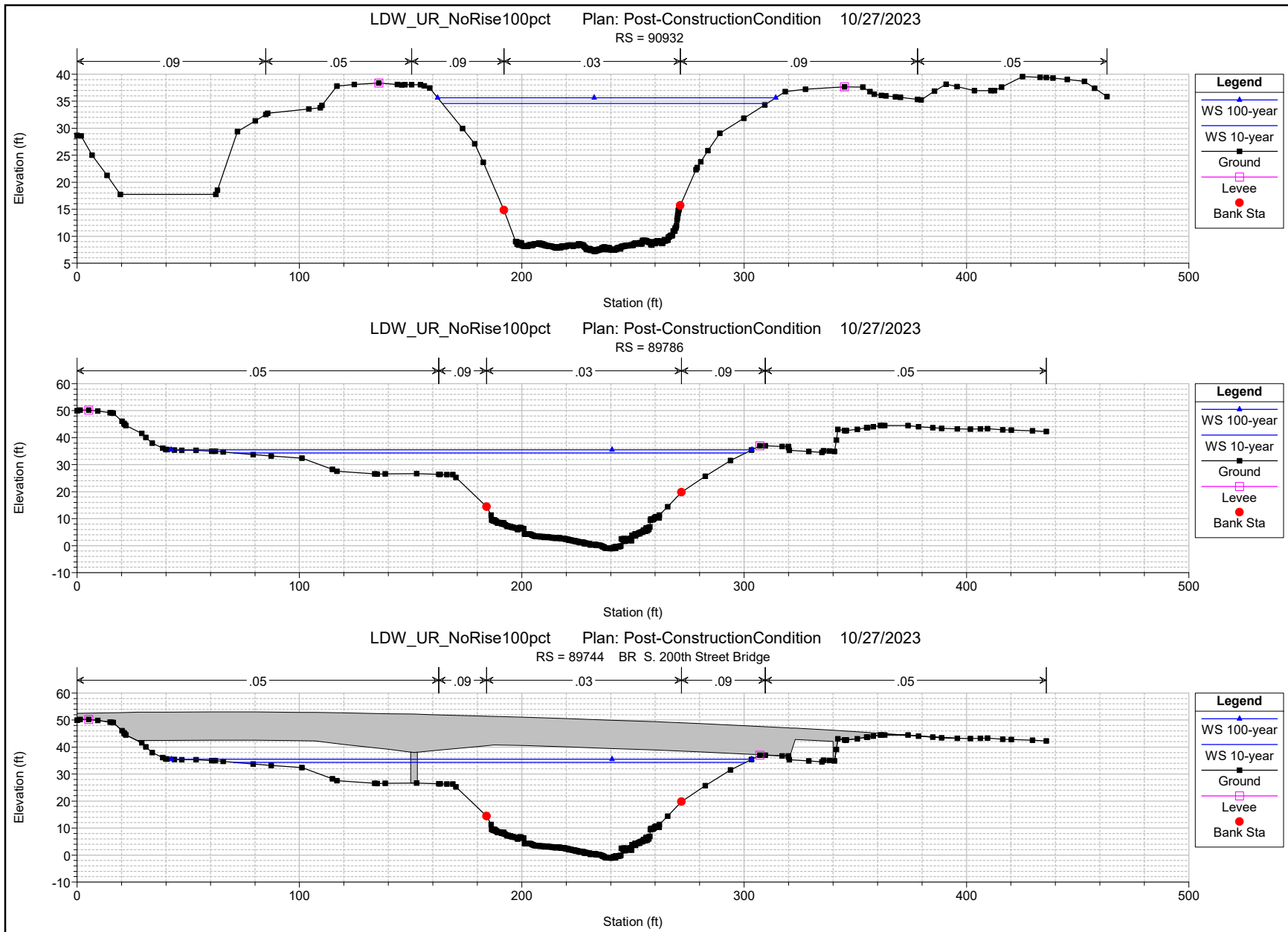


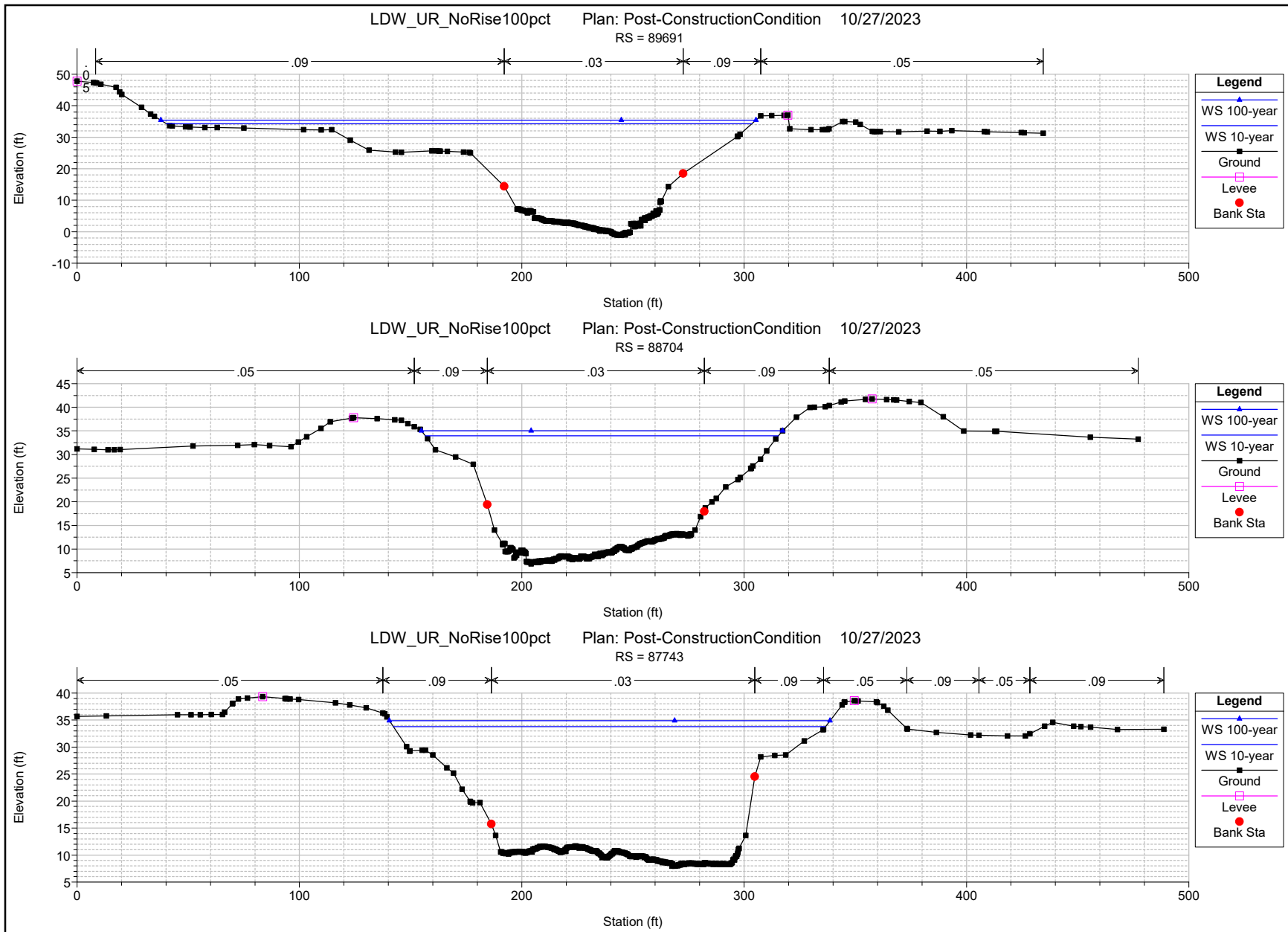


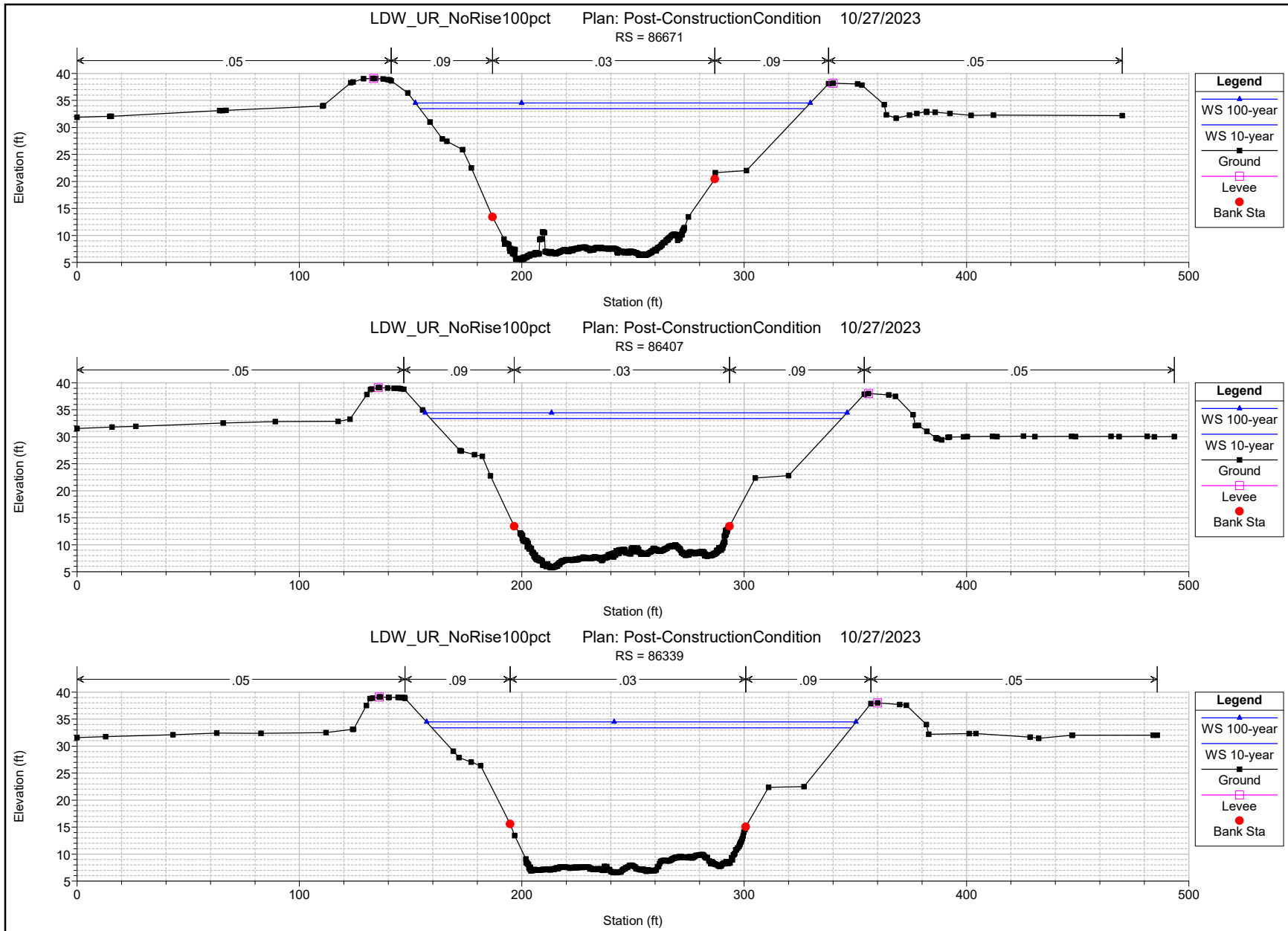


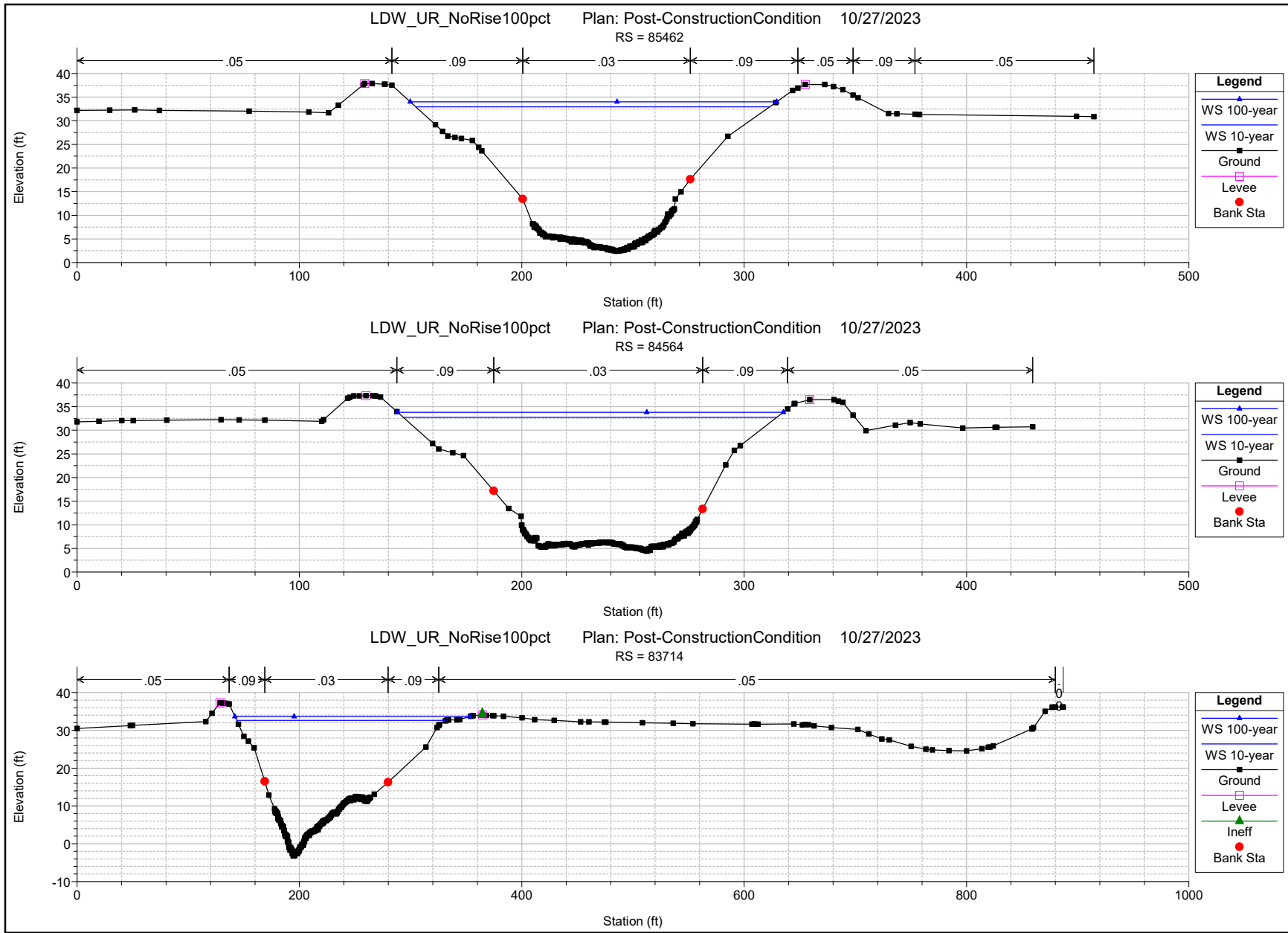


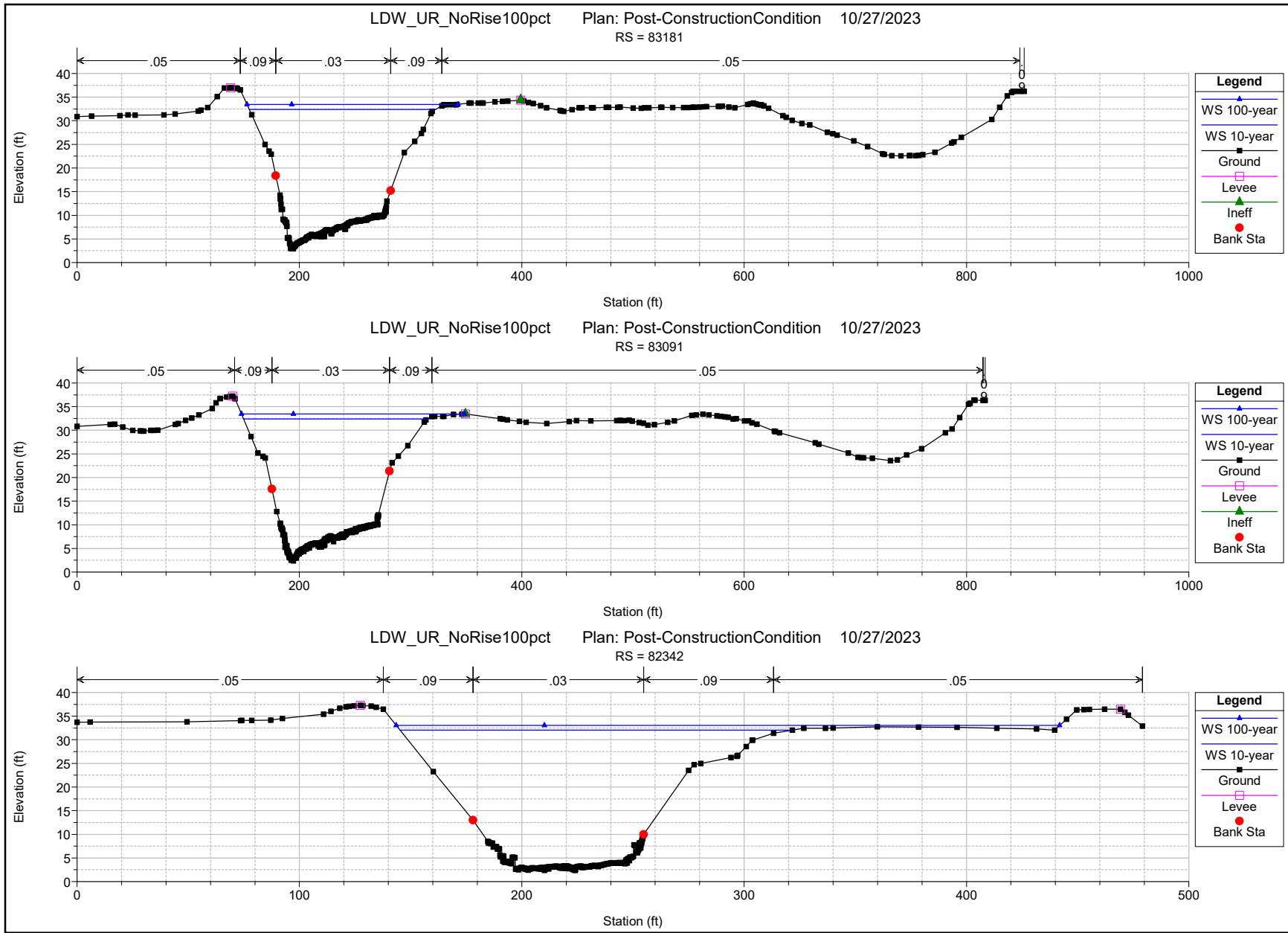




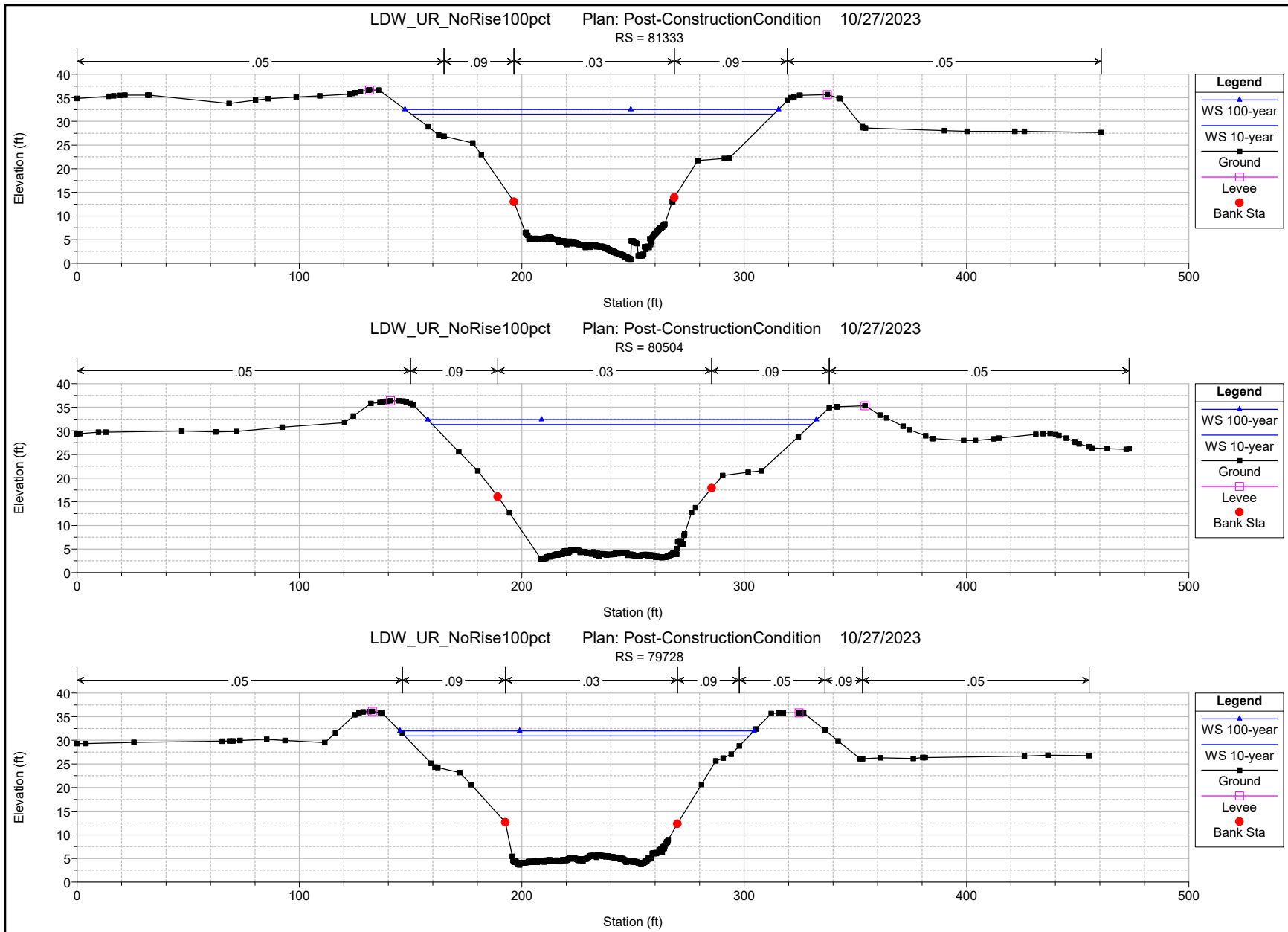


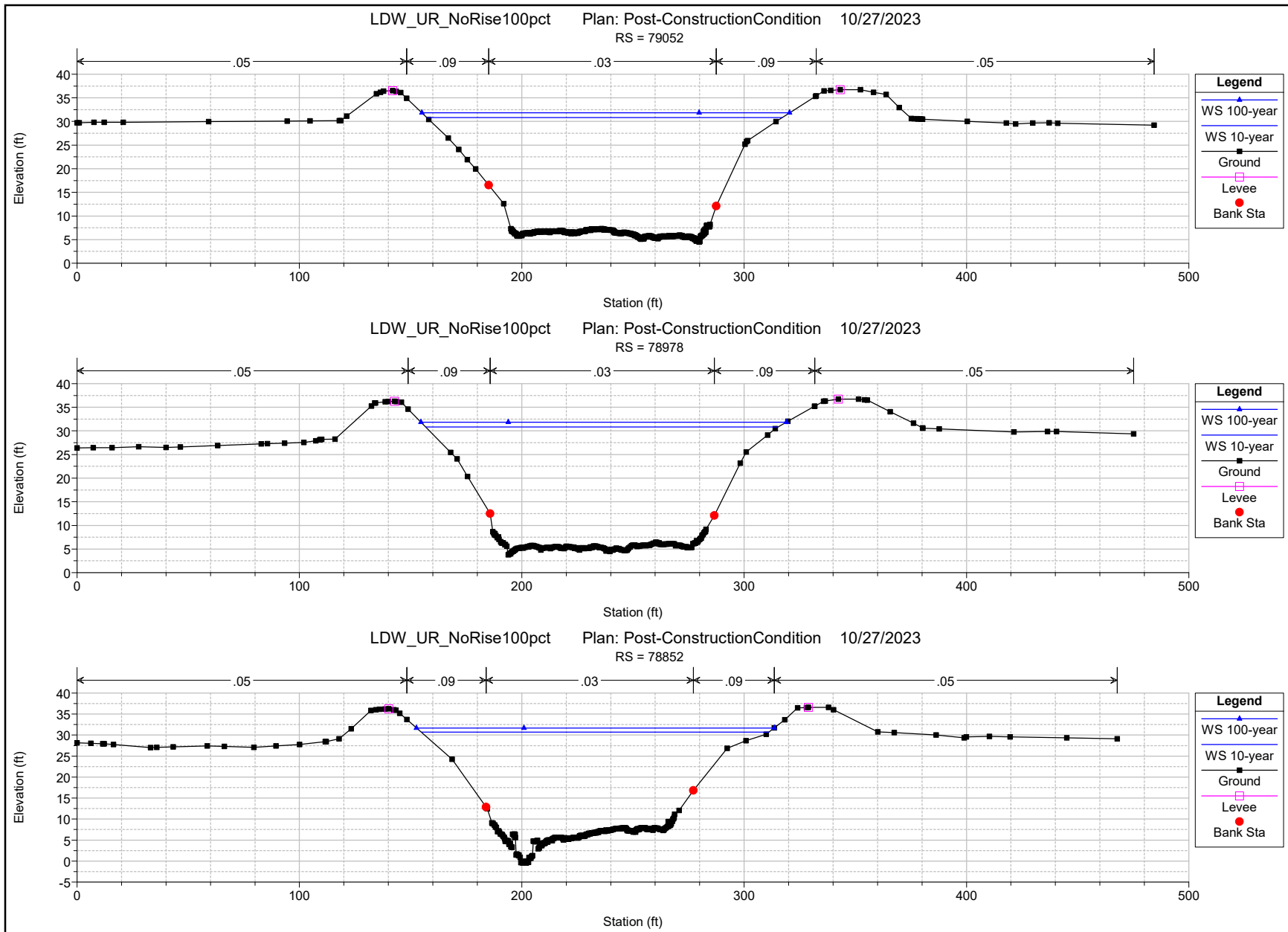


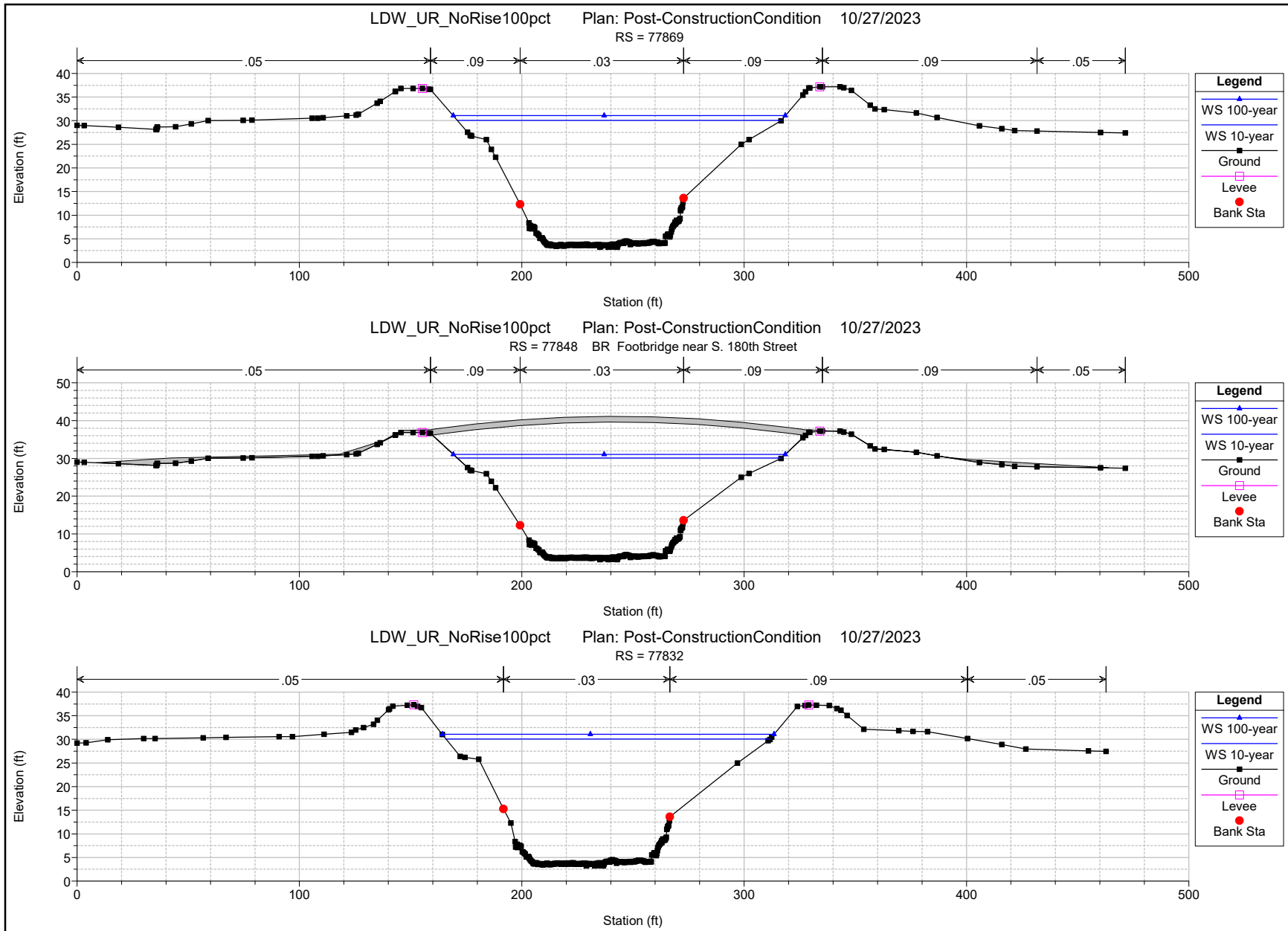


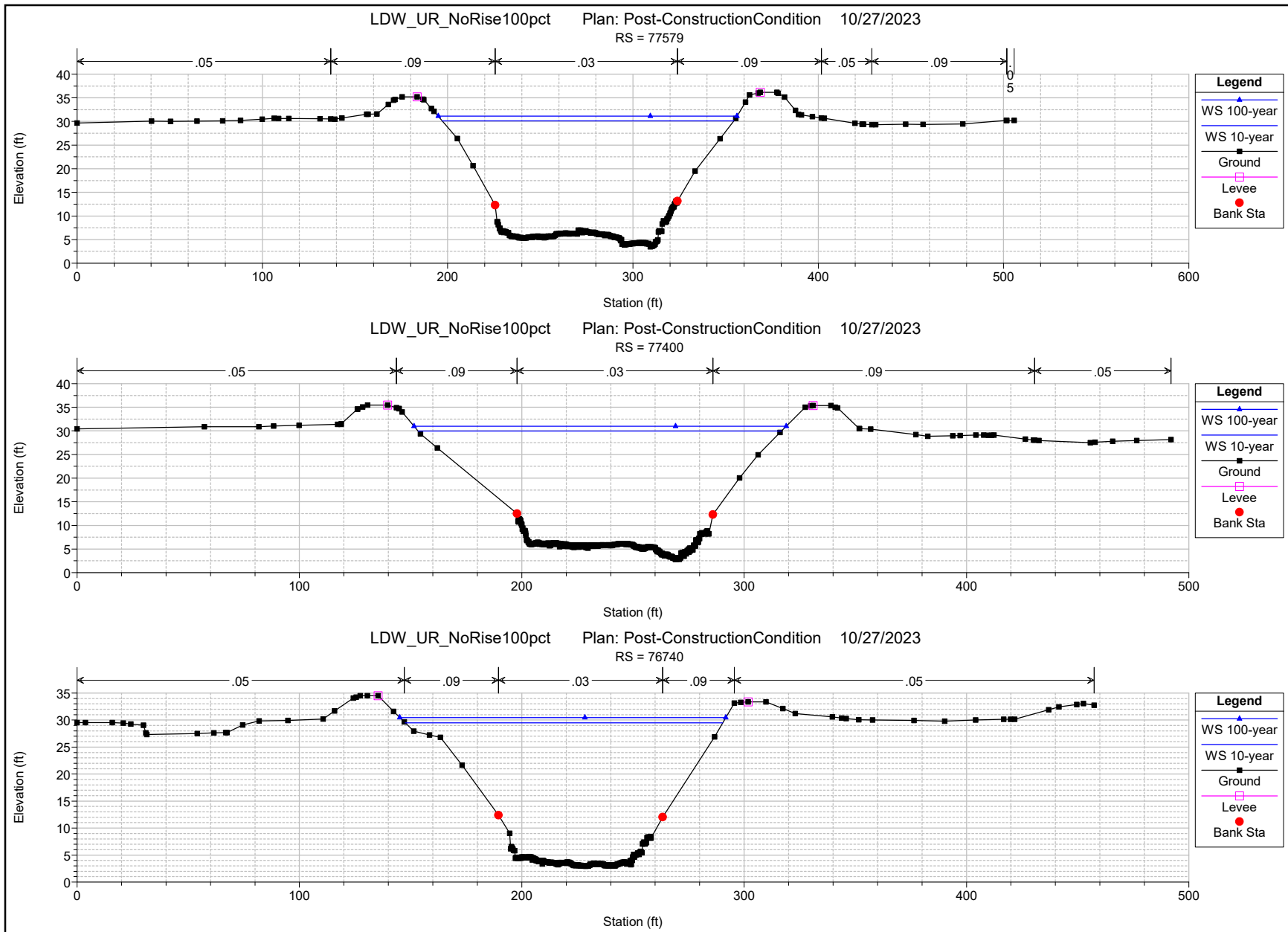


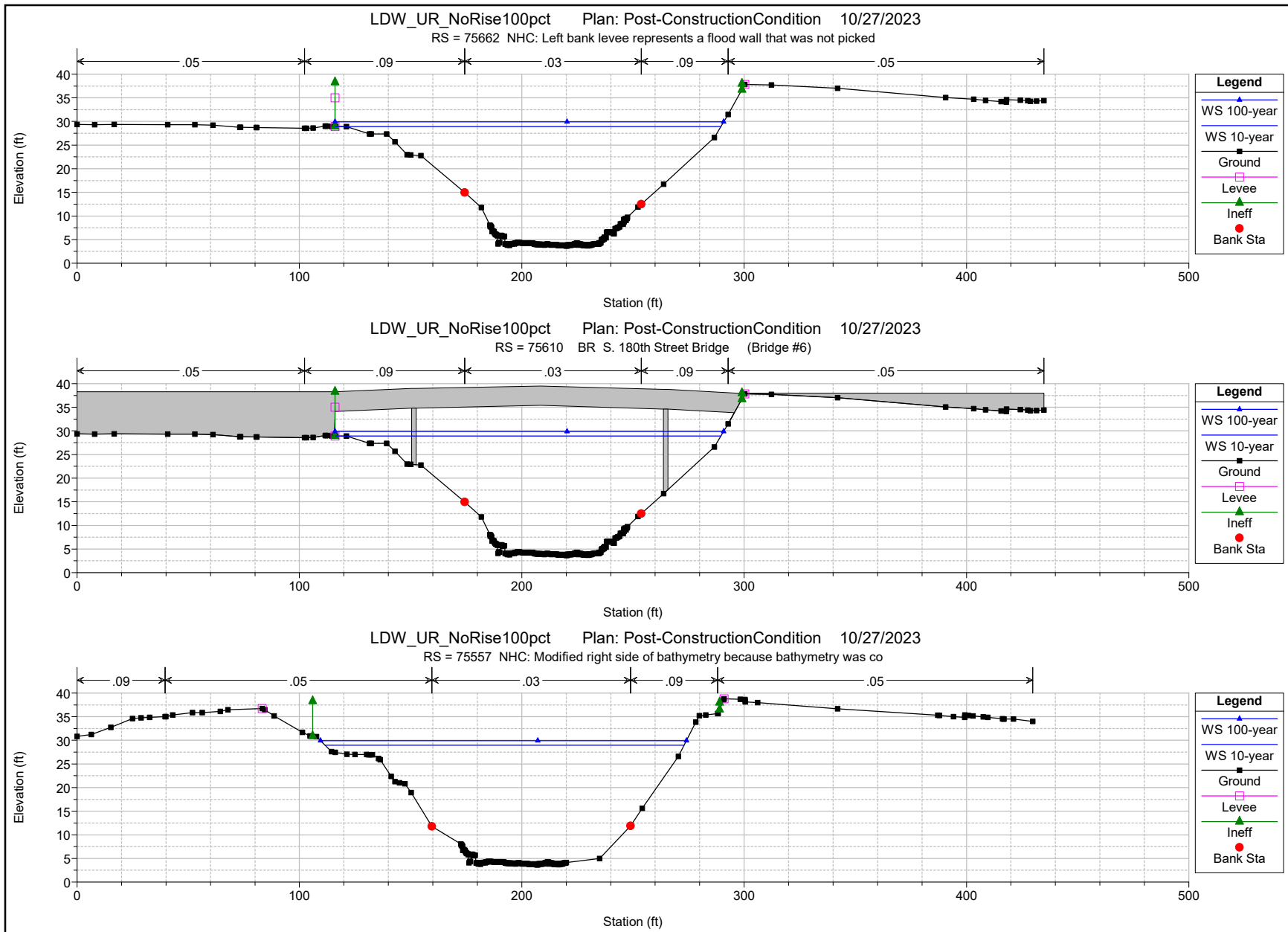


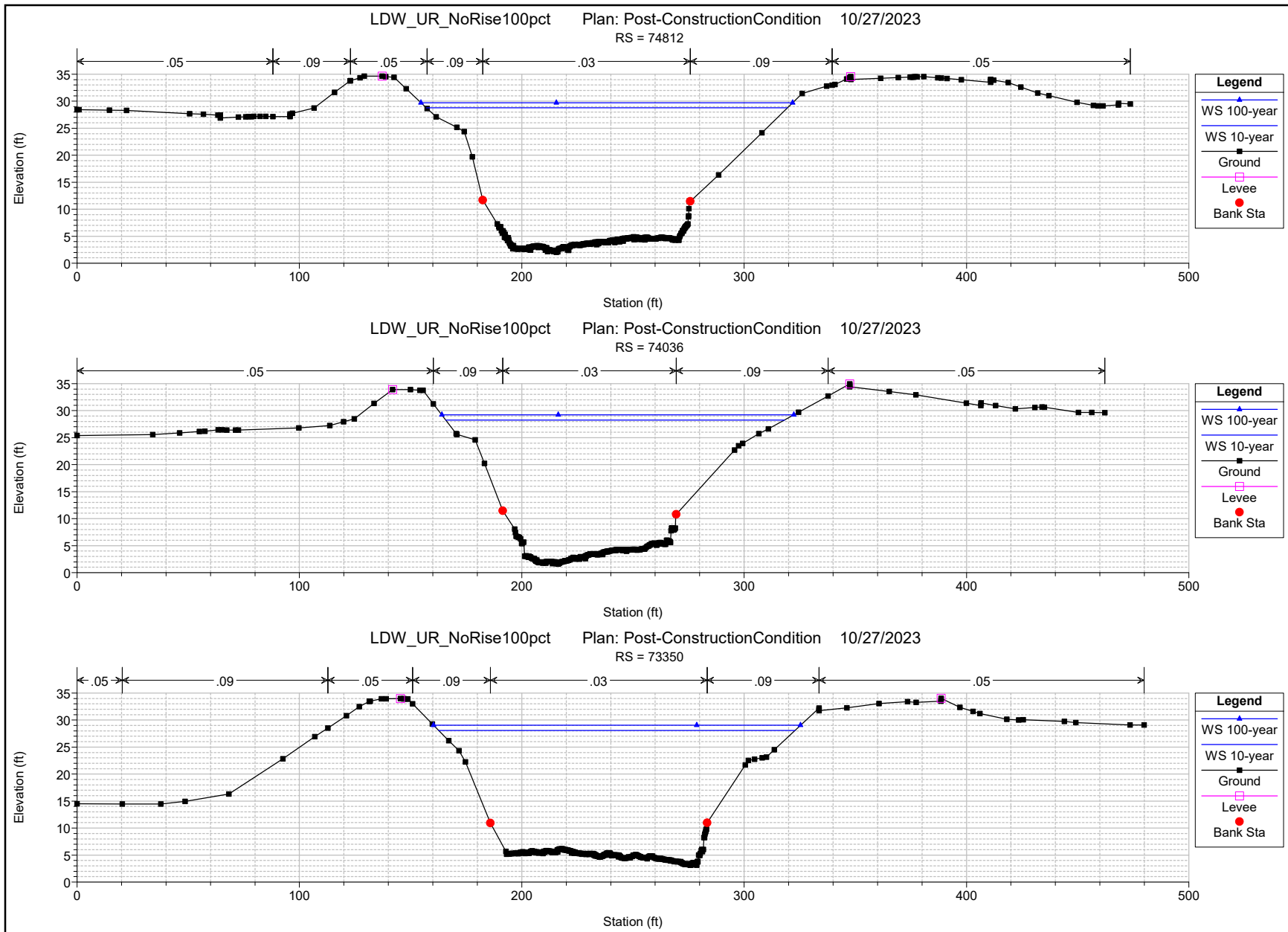


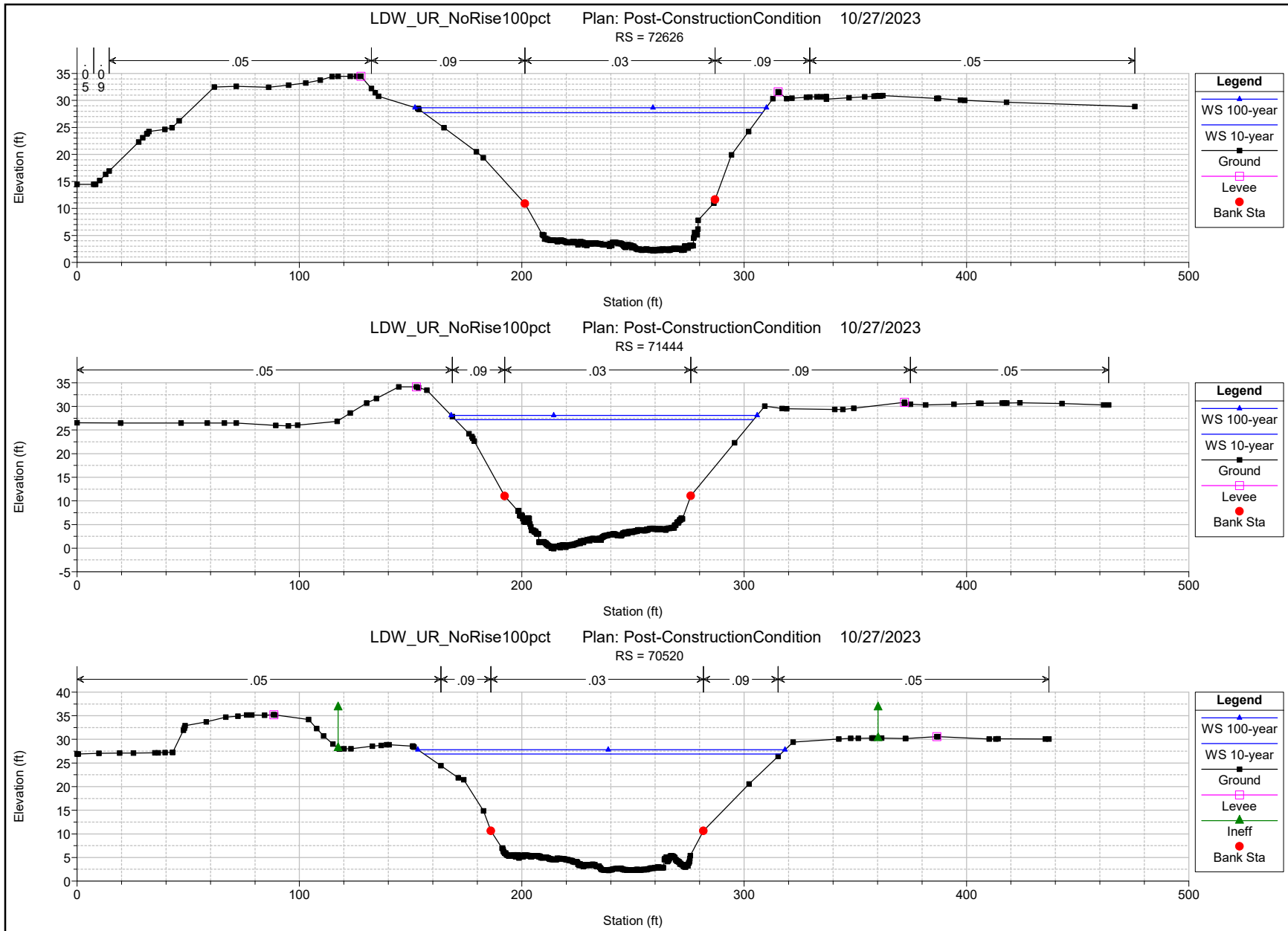


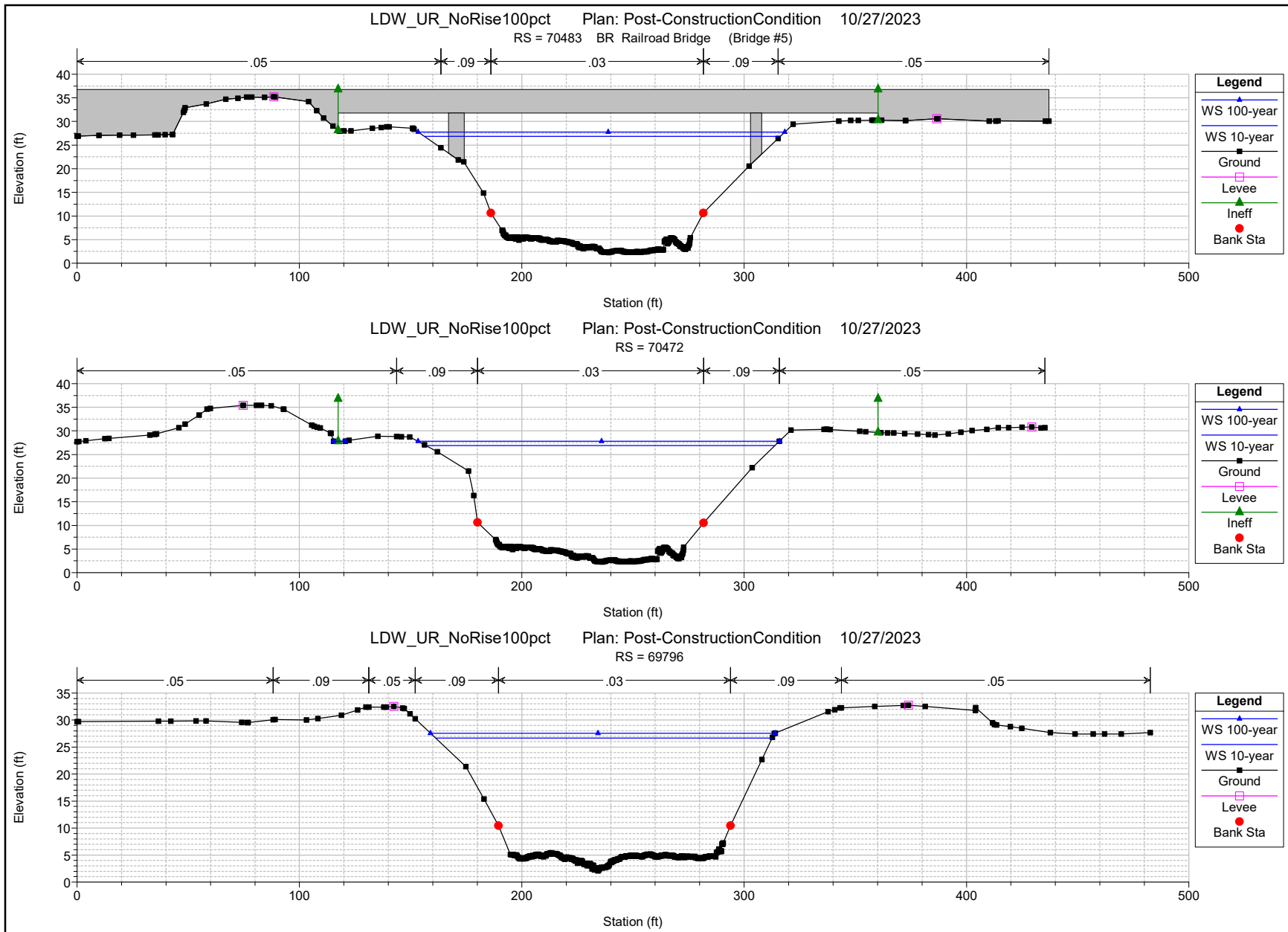




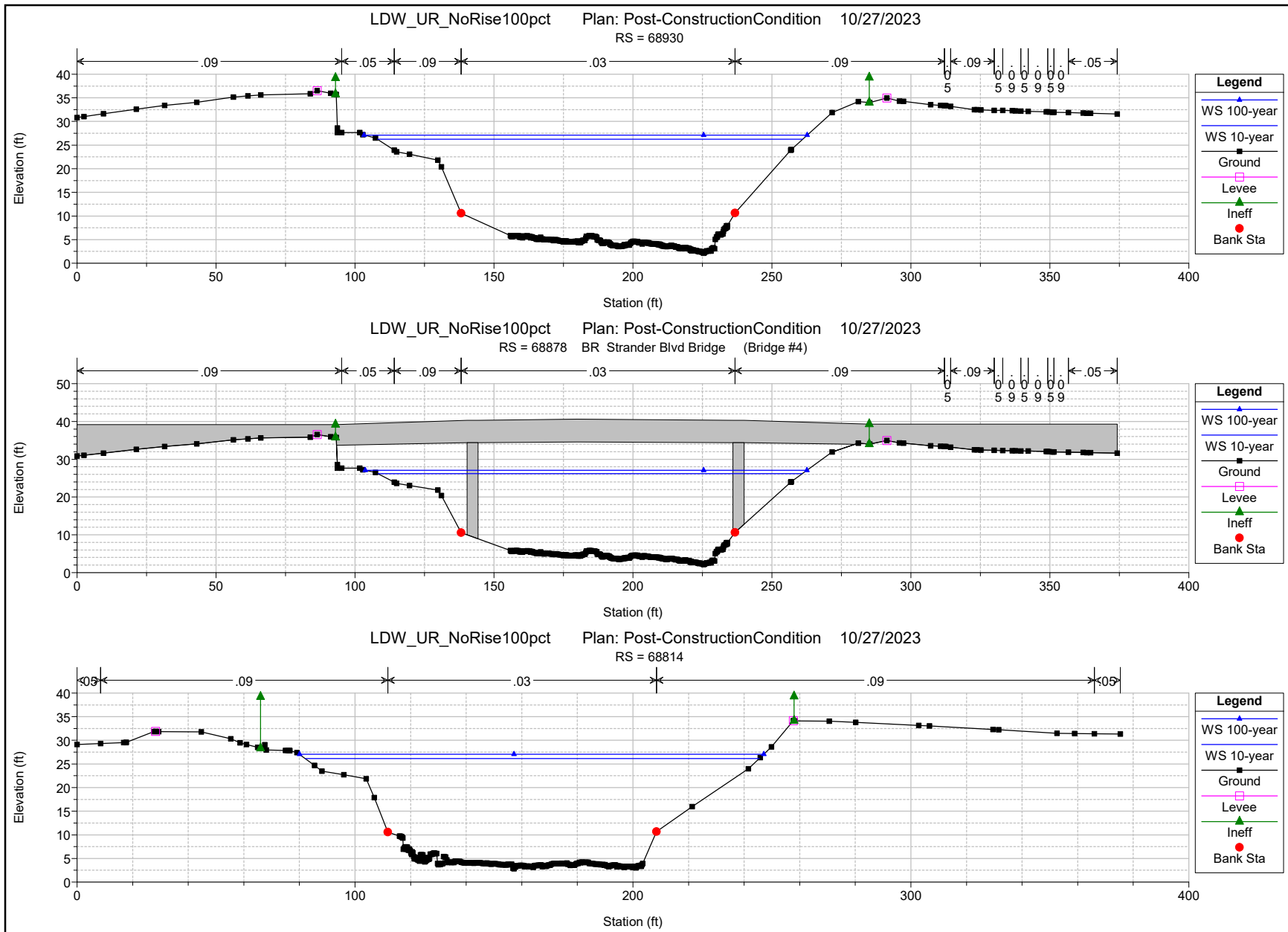


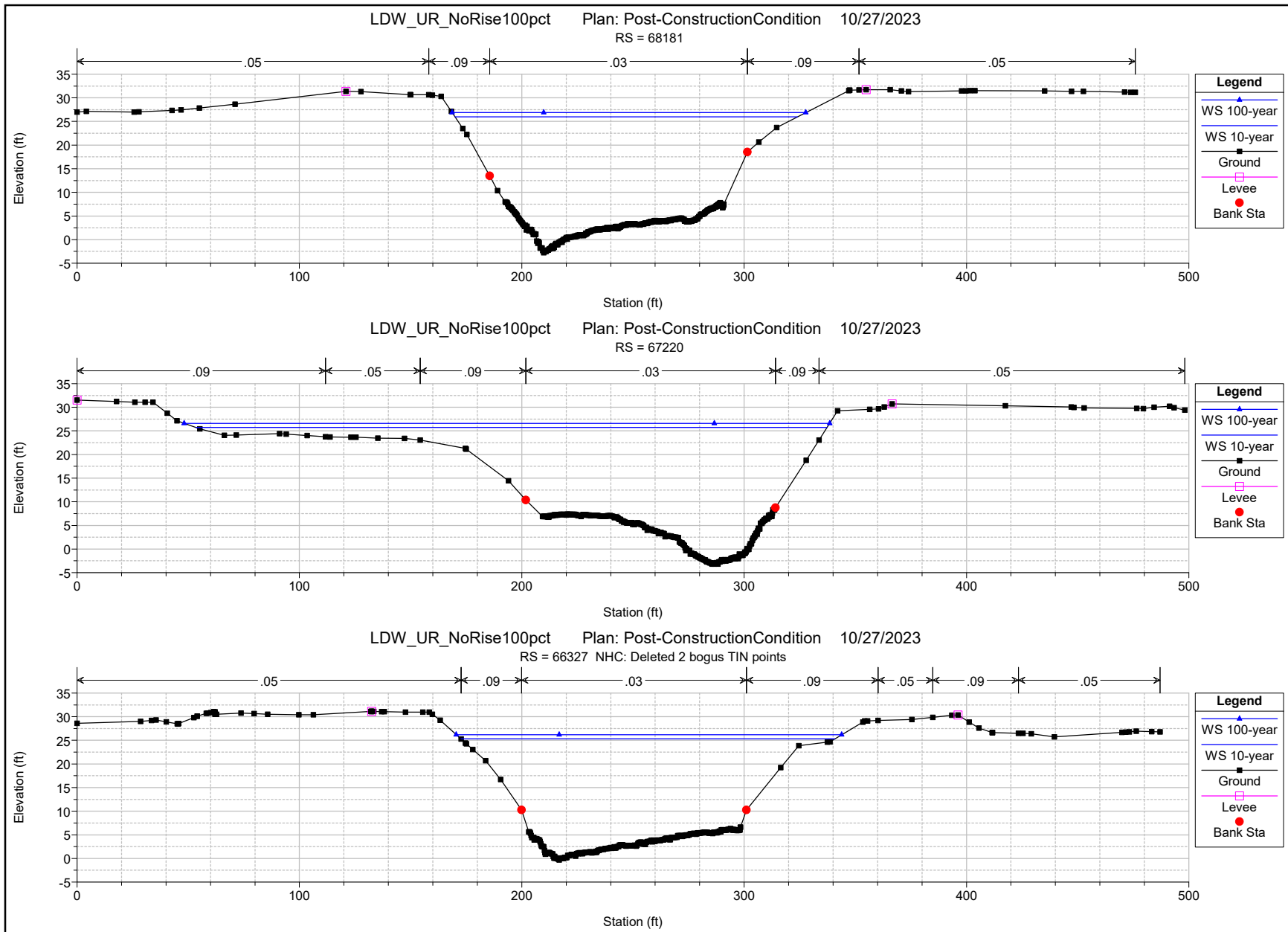


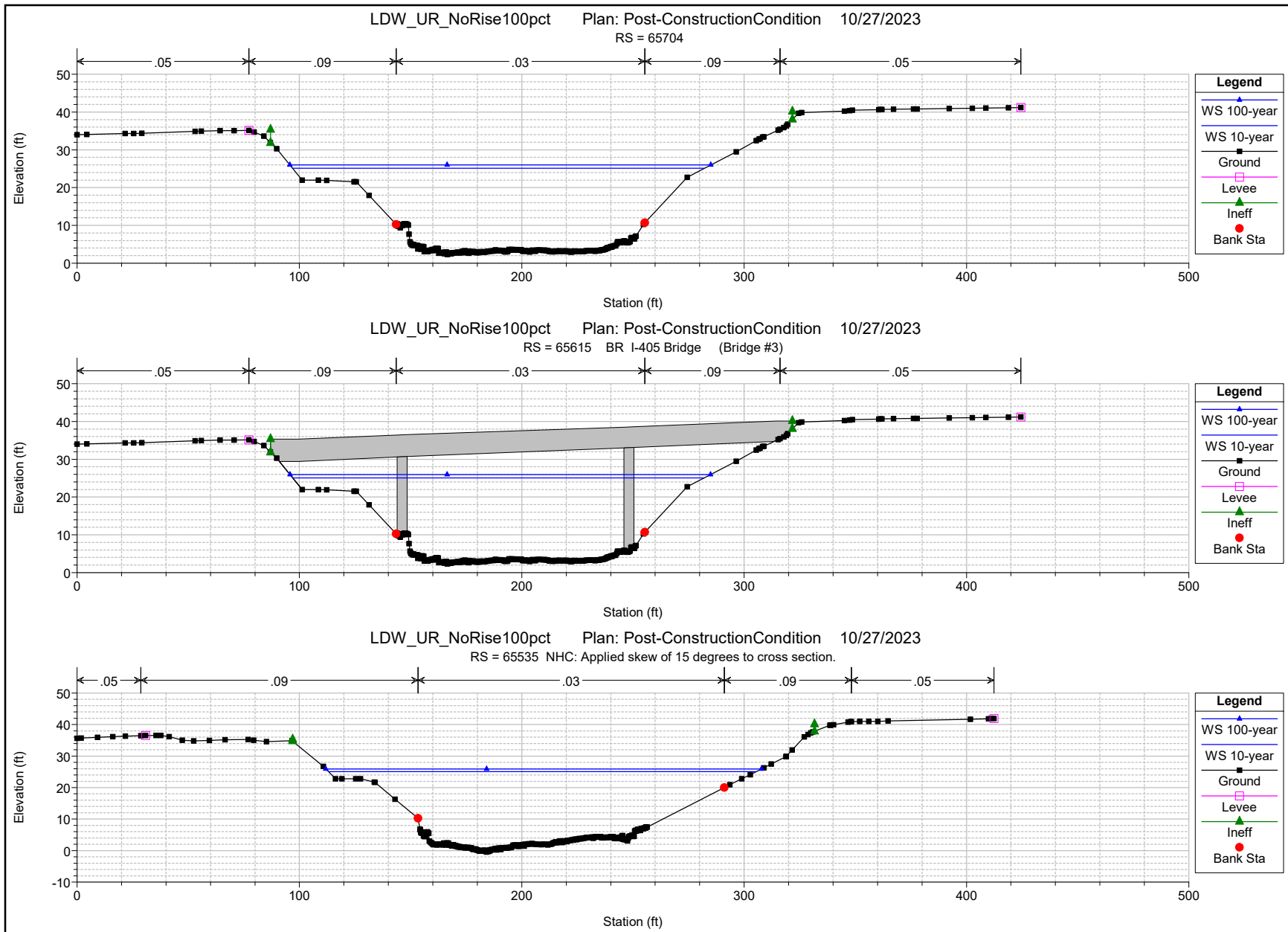




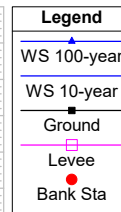
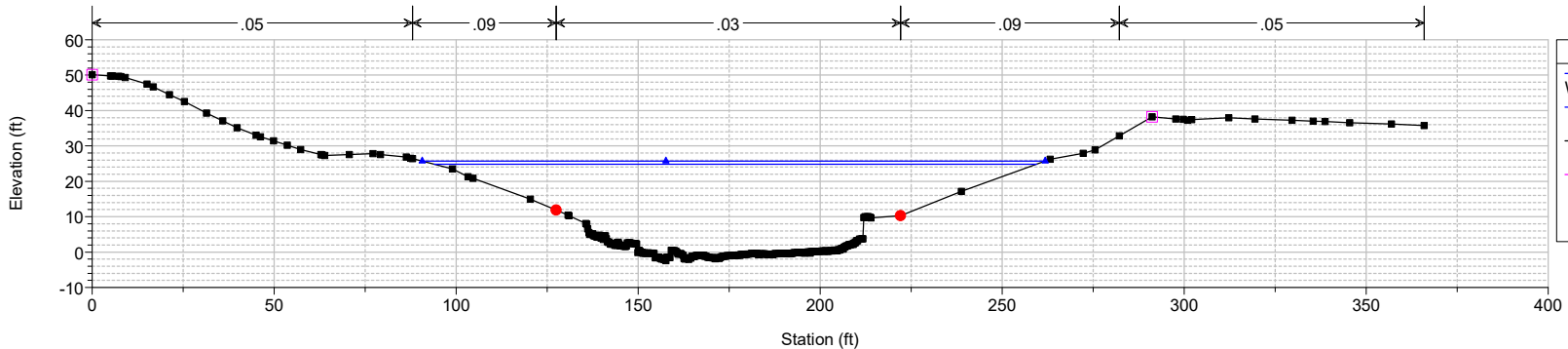




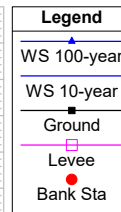
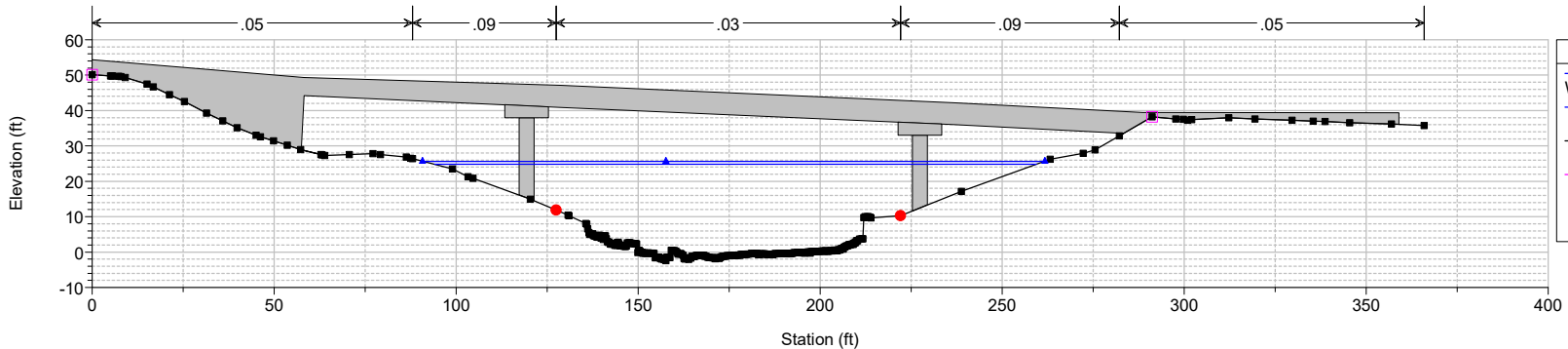




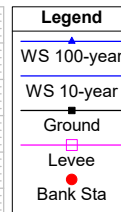
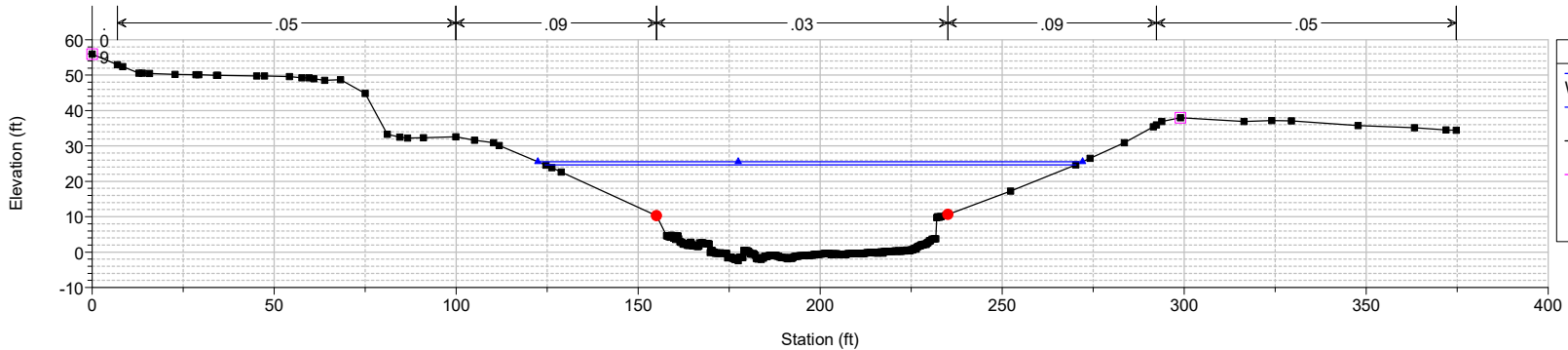
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 65366



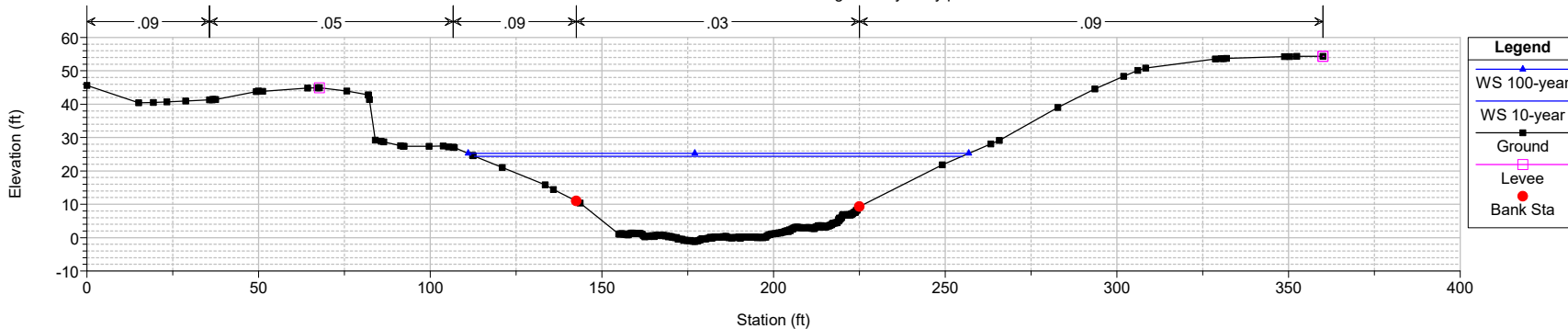
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 65314 BR Southcenter Blvd.



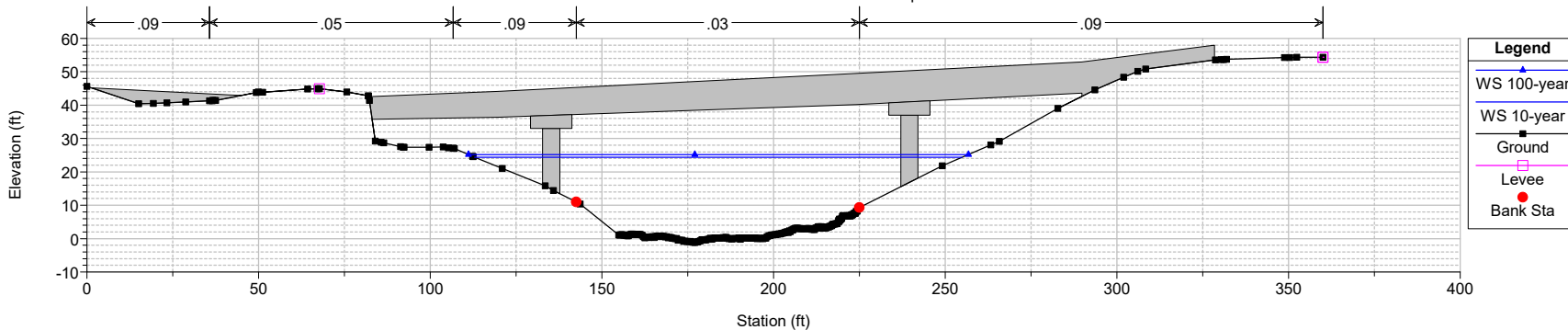
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 65277



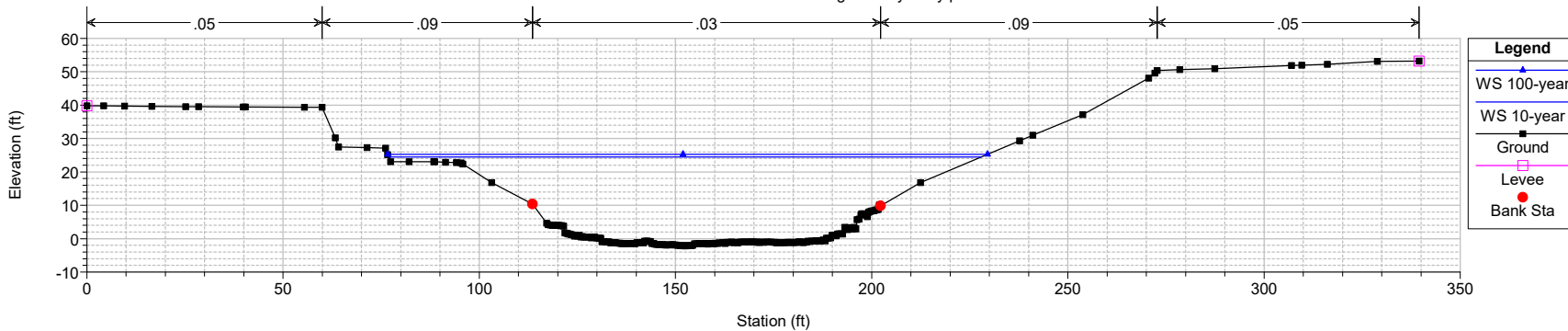
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 64907 NHC: Deleted 8 bogus bathymetry points

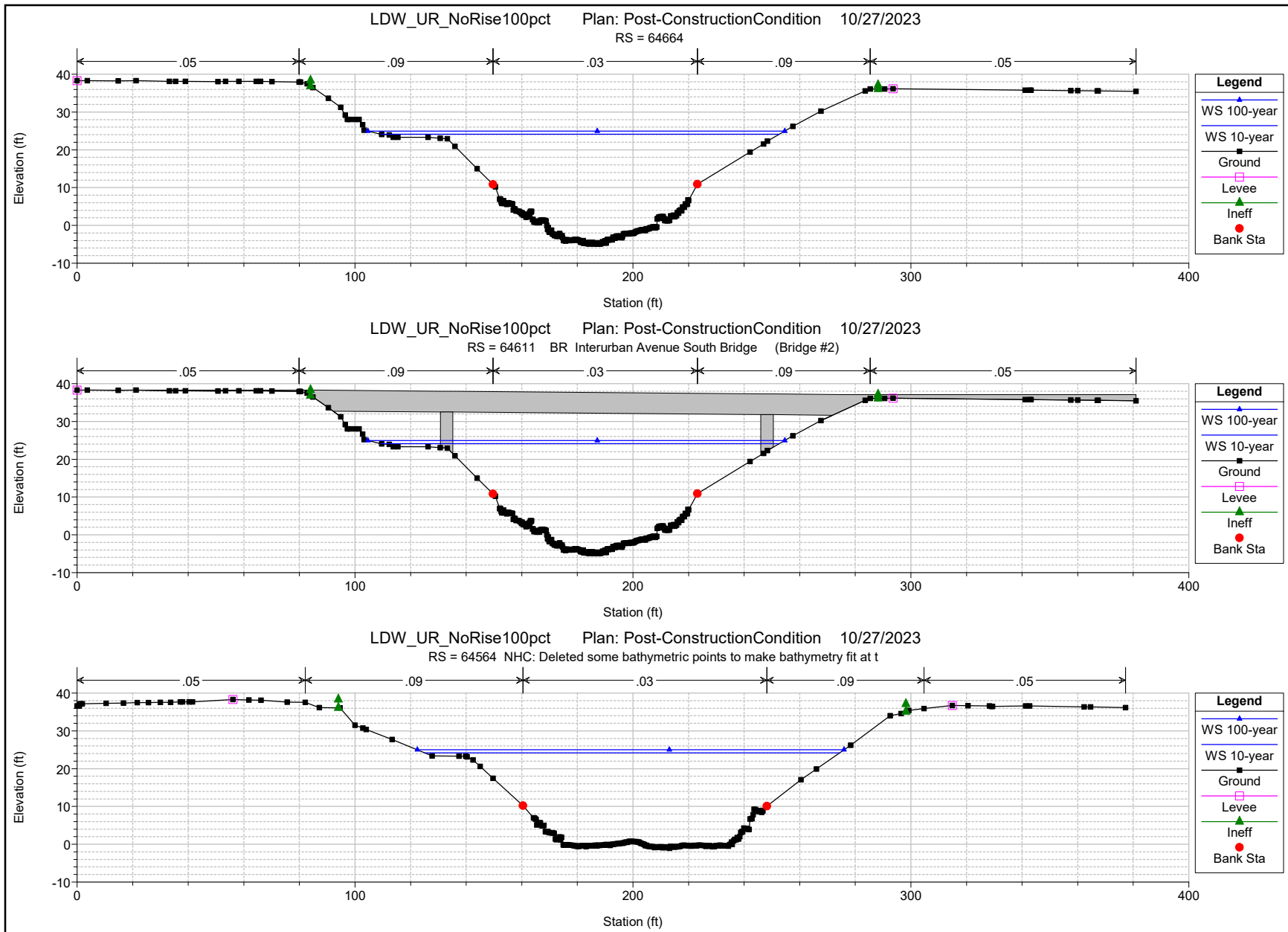


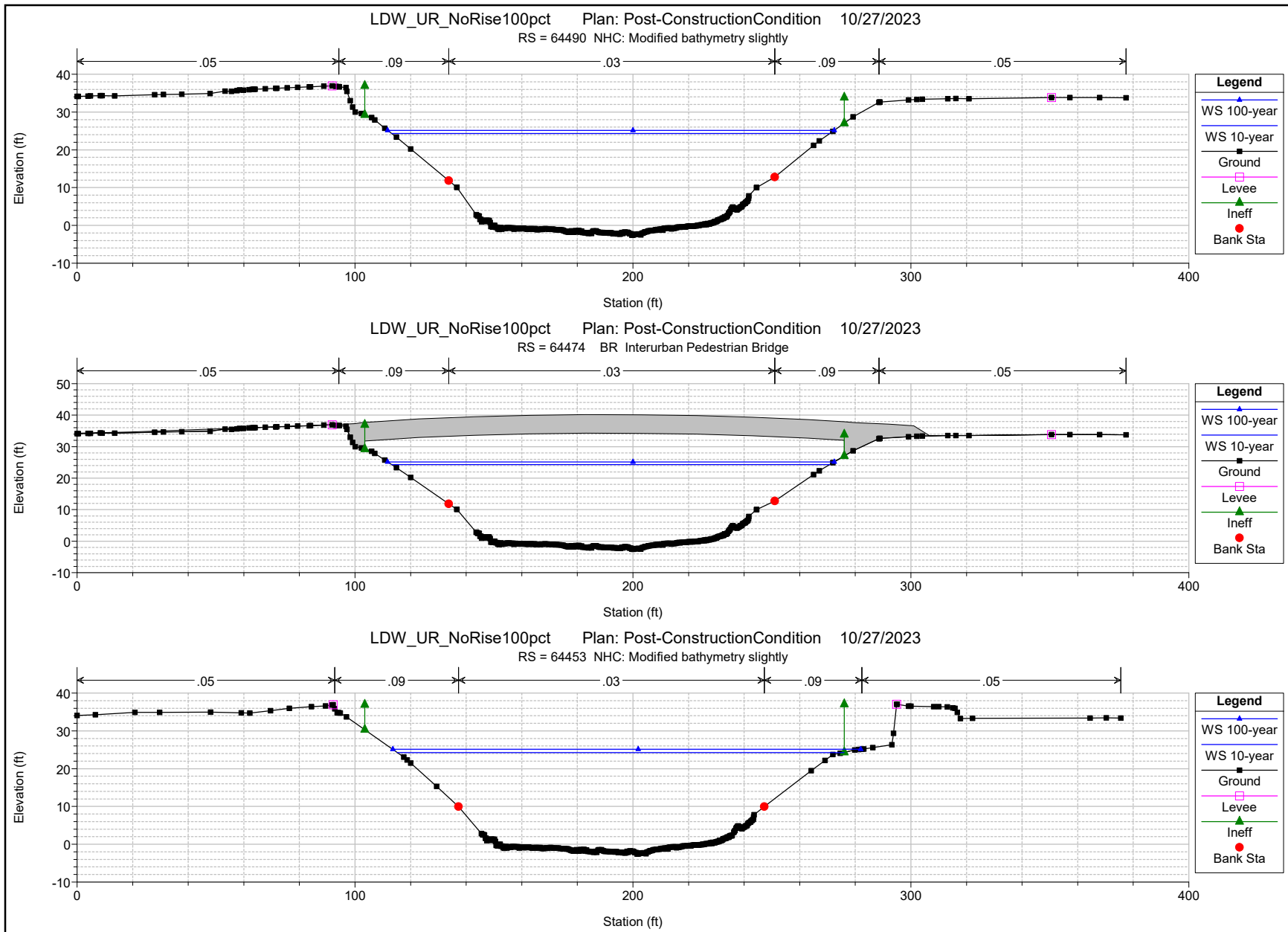
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 64854 BR I-405 Off-Ramp

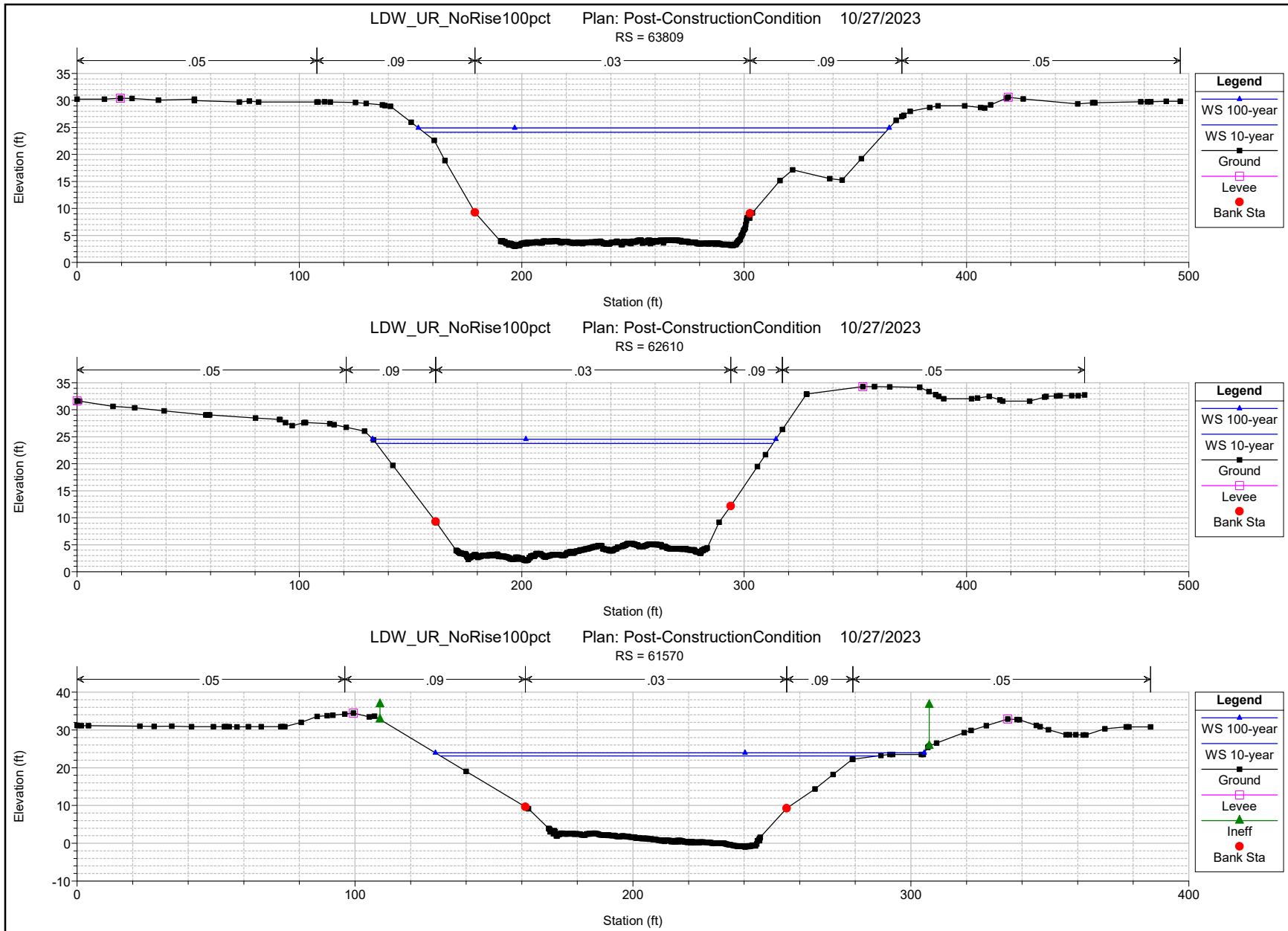


LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 64812 NHC: Deleted 8 bogus bathymetry points

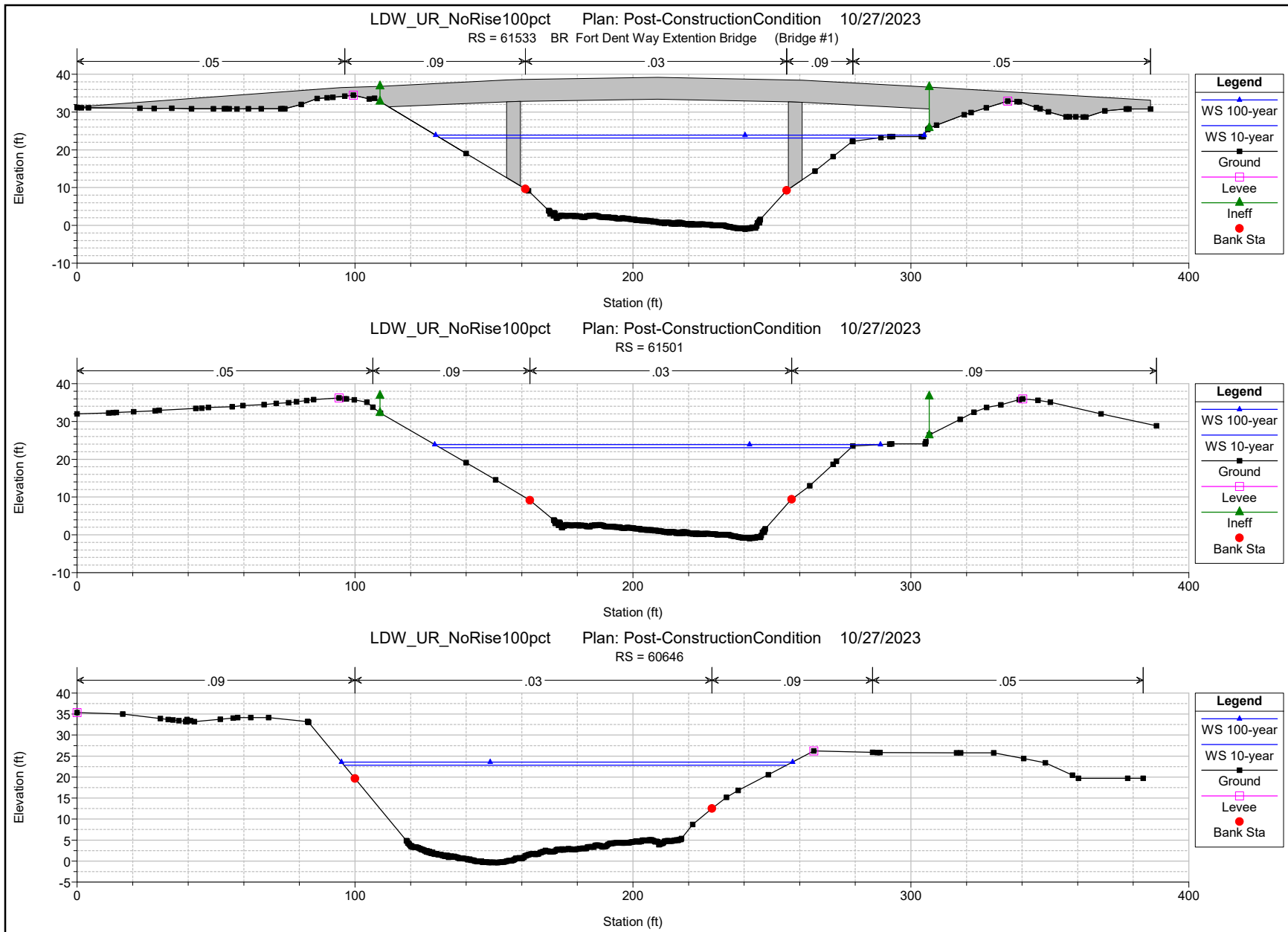


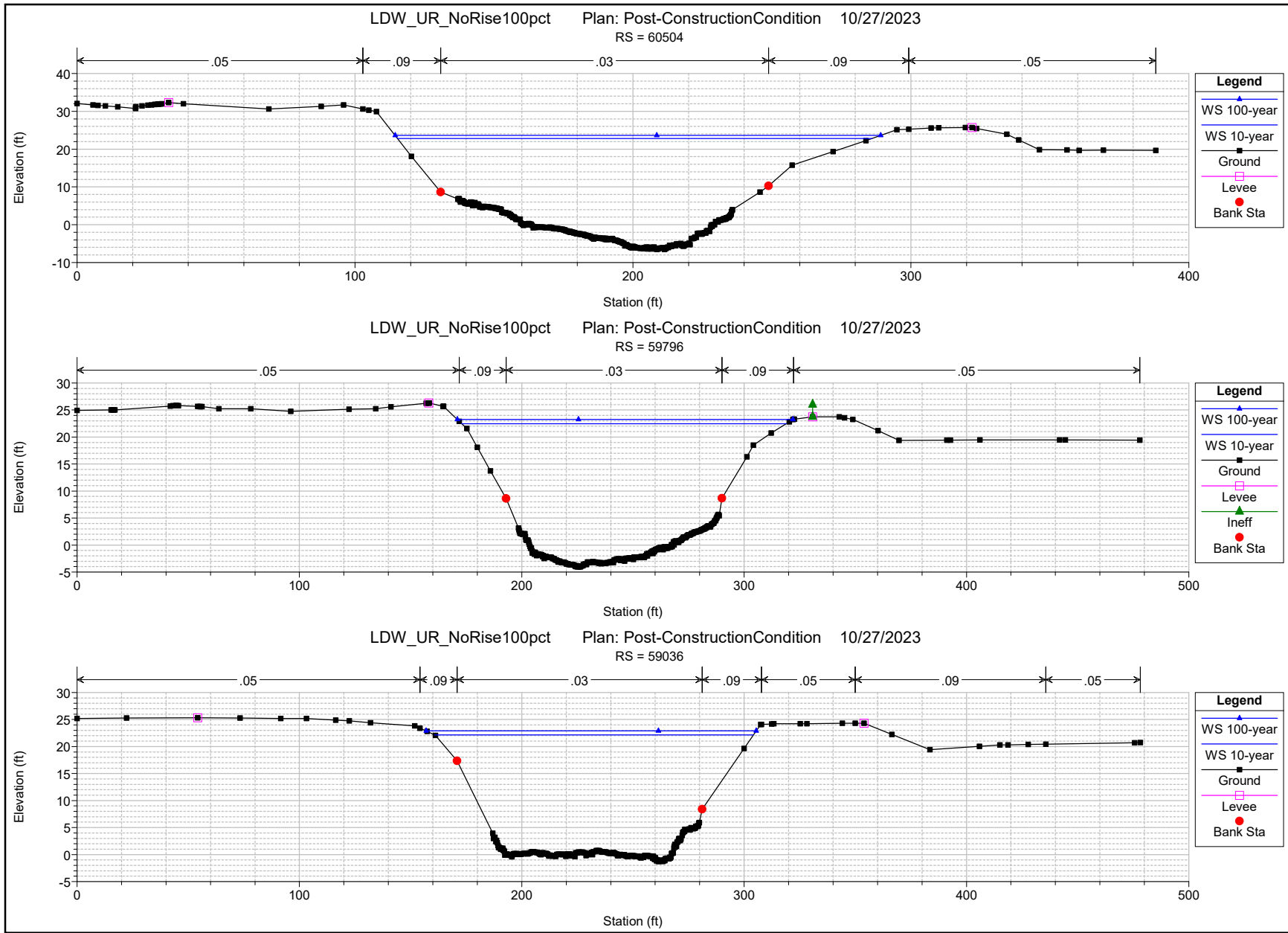


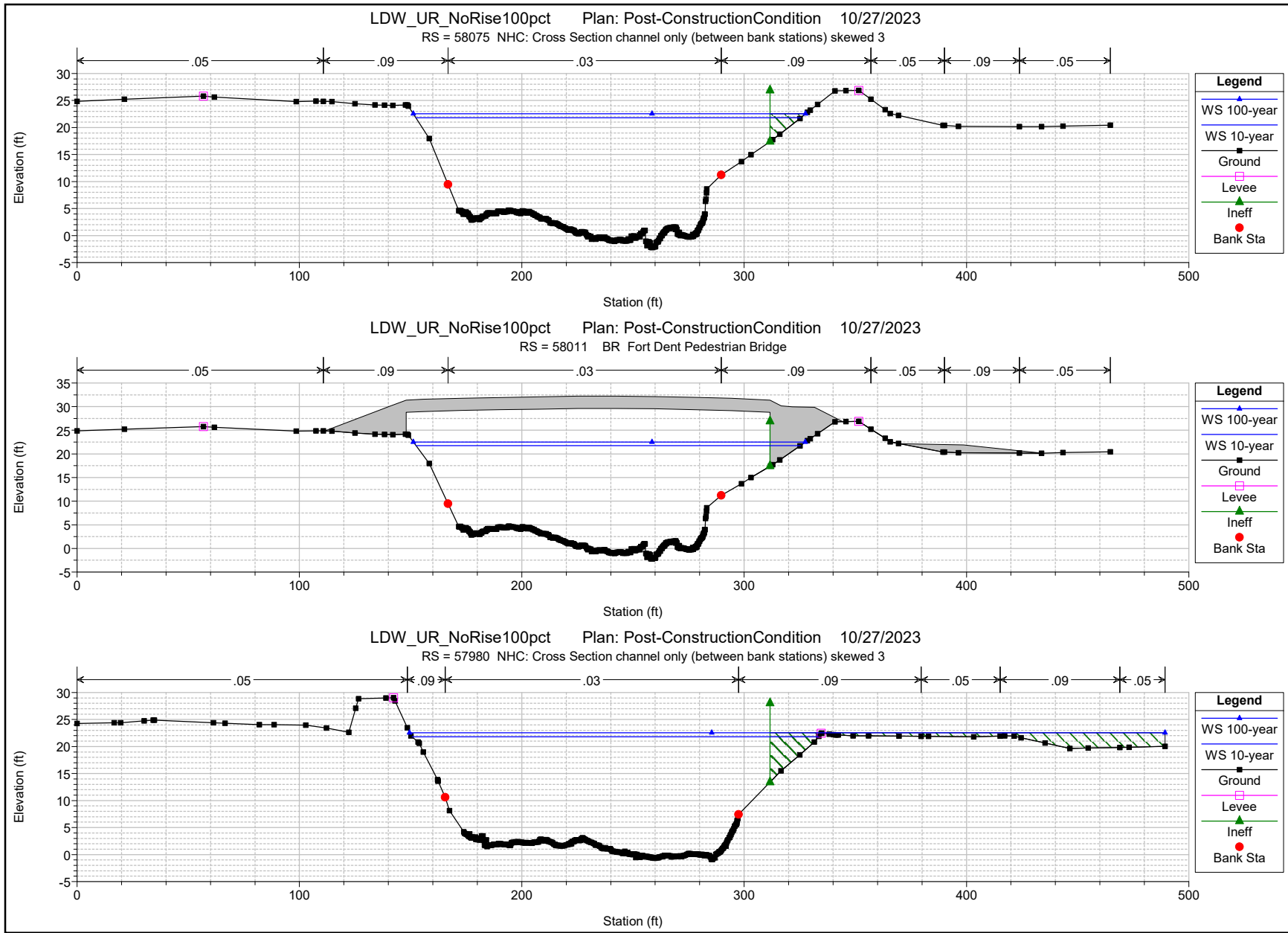


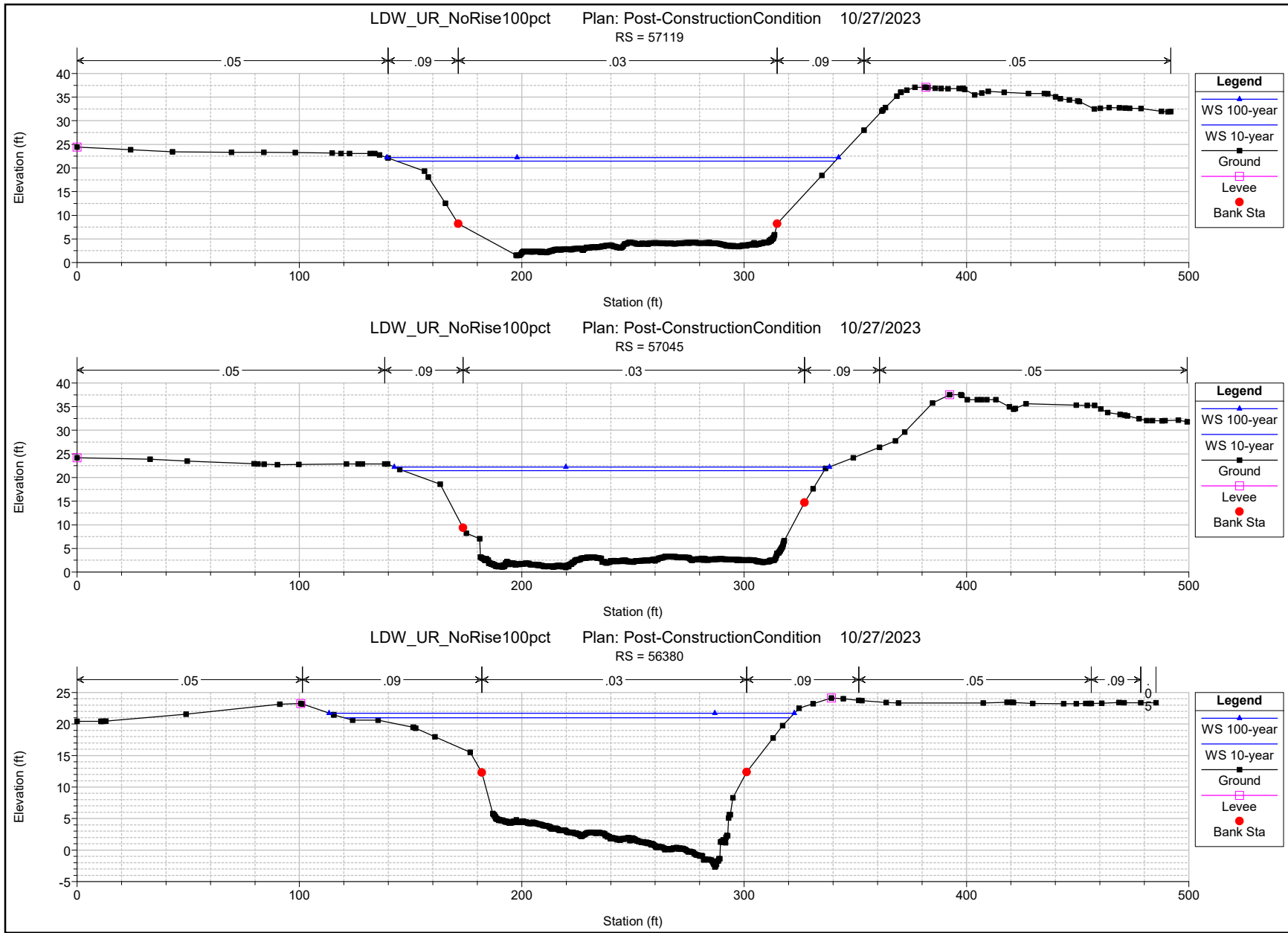


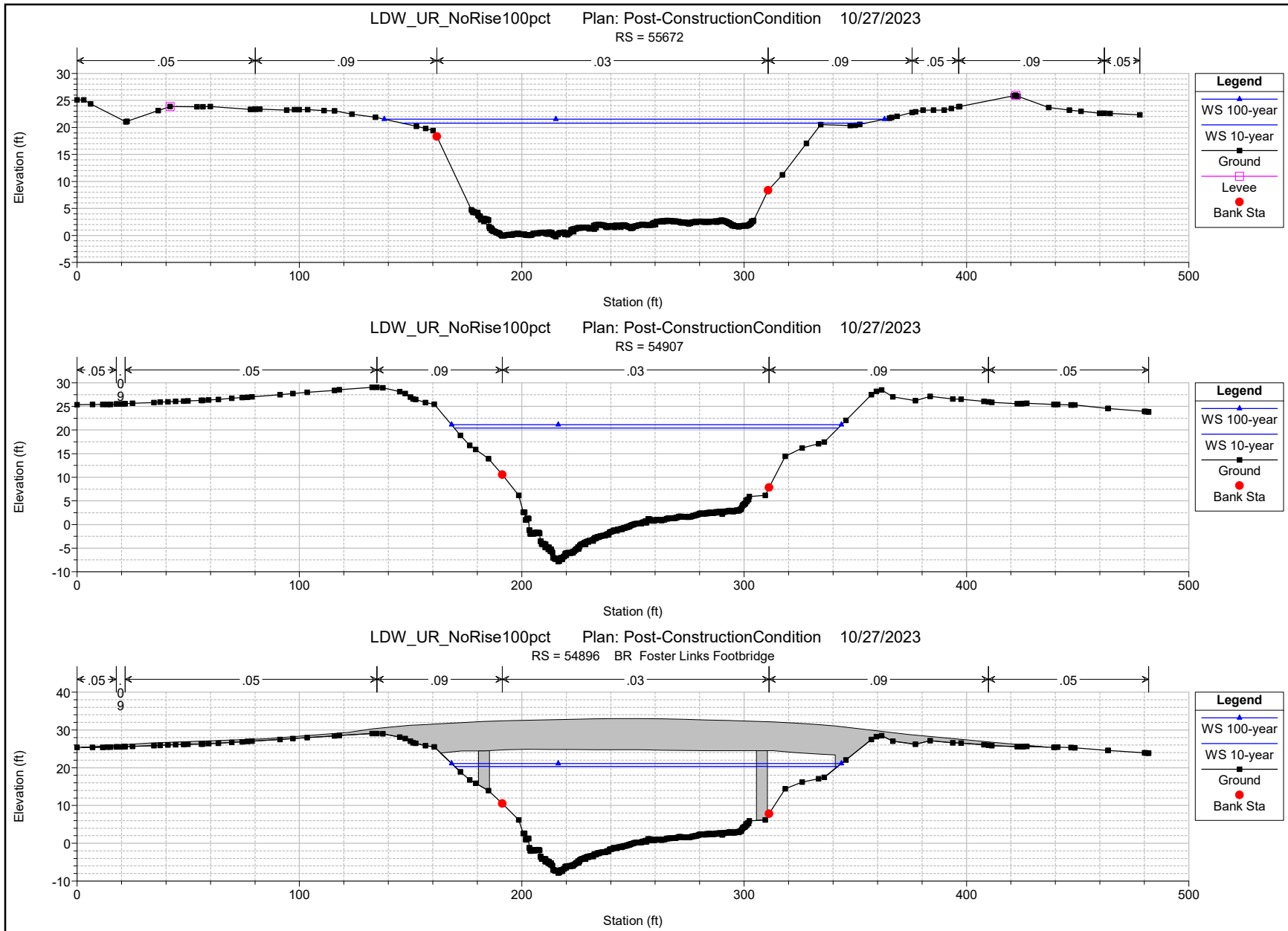


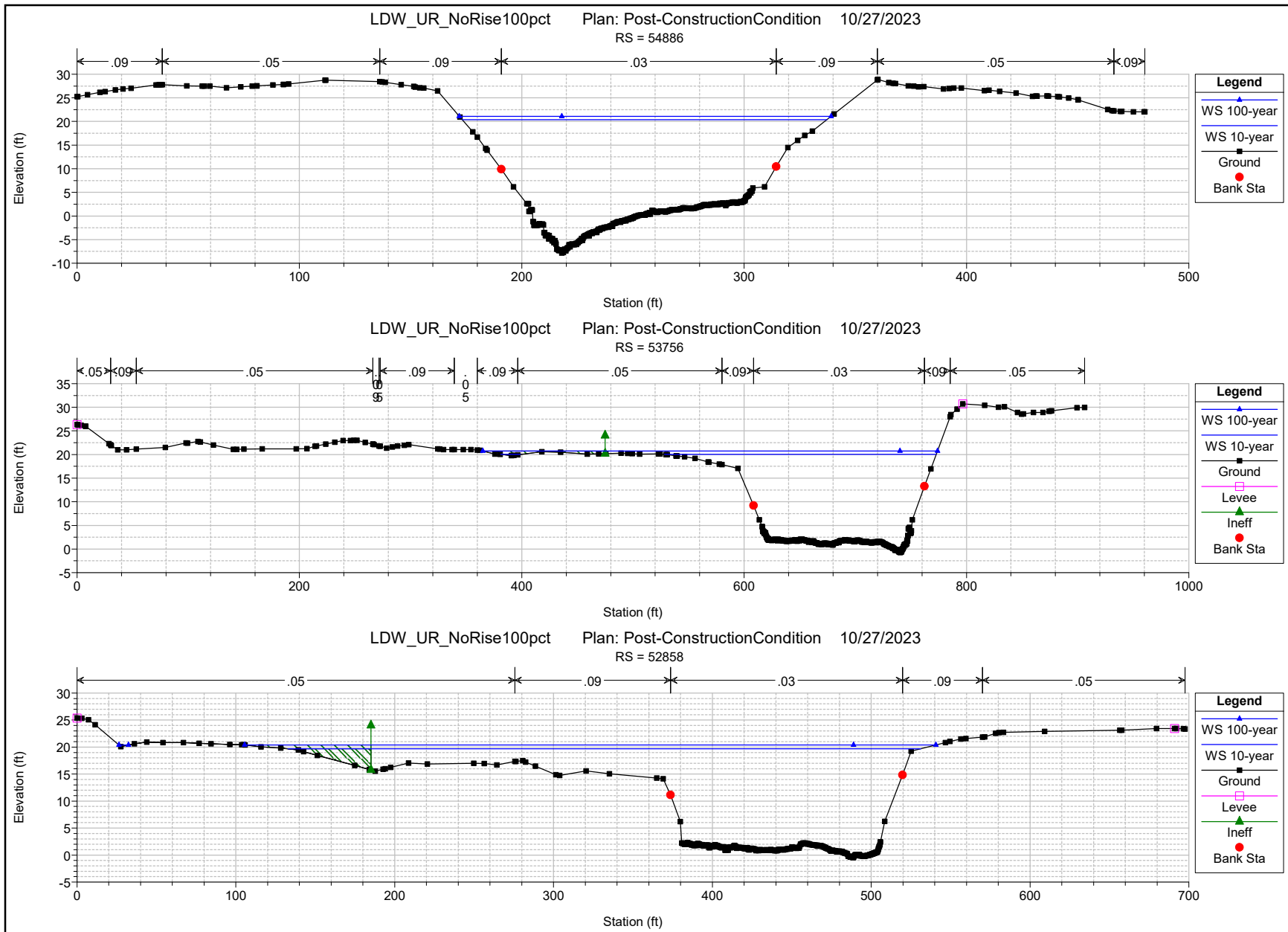


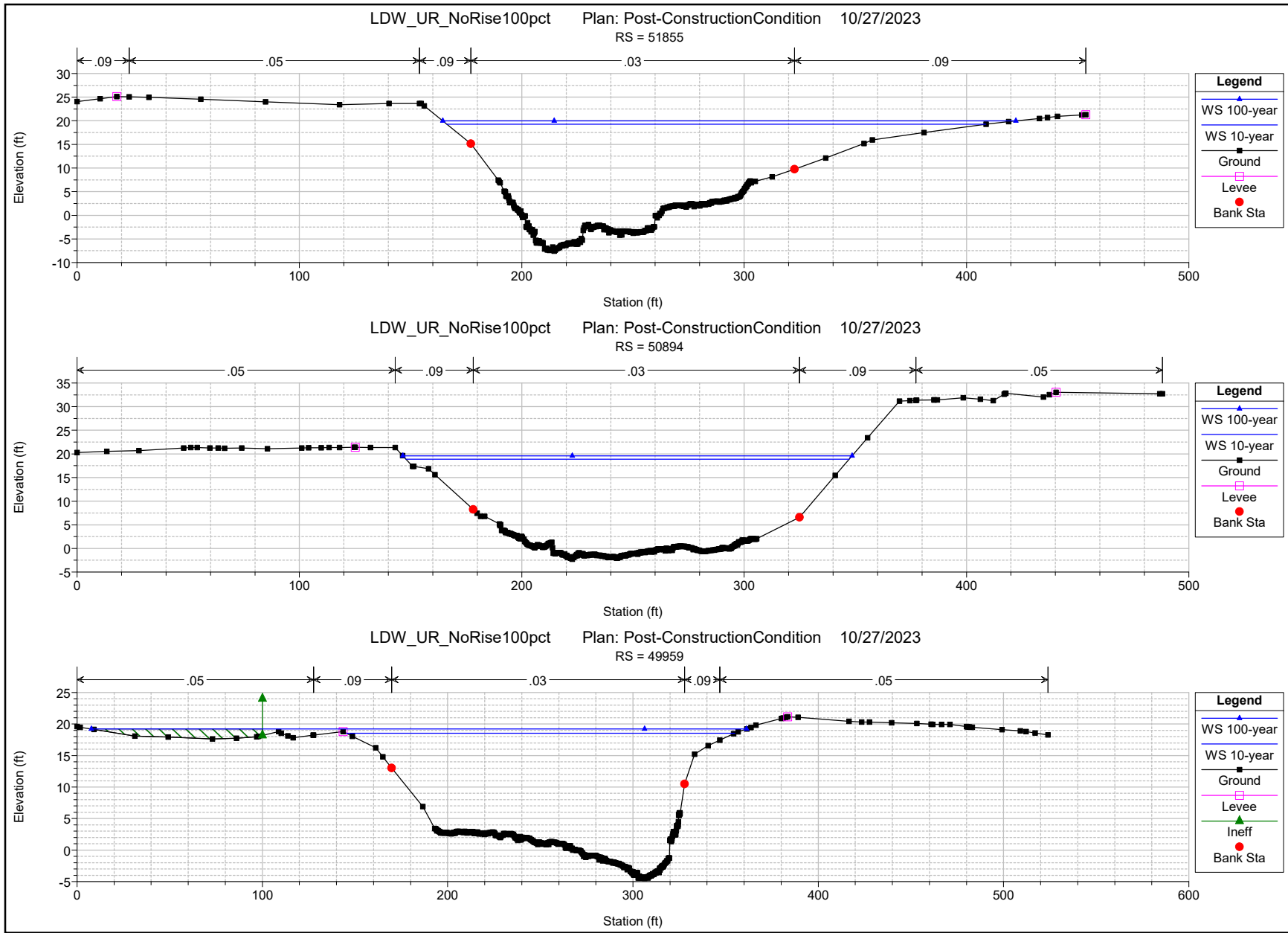


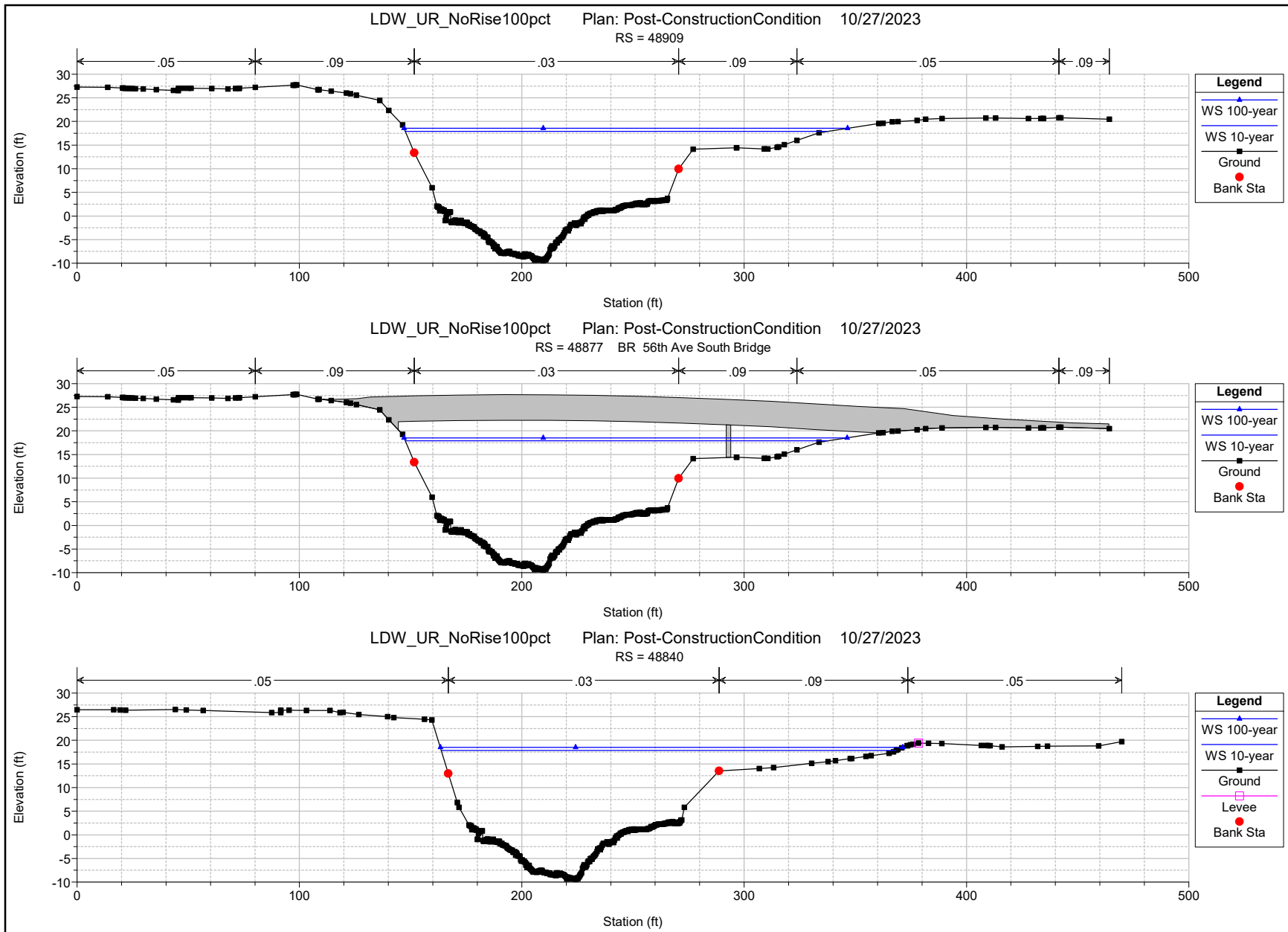




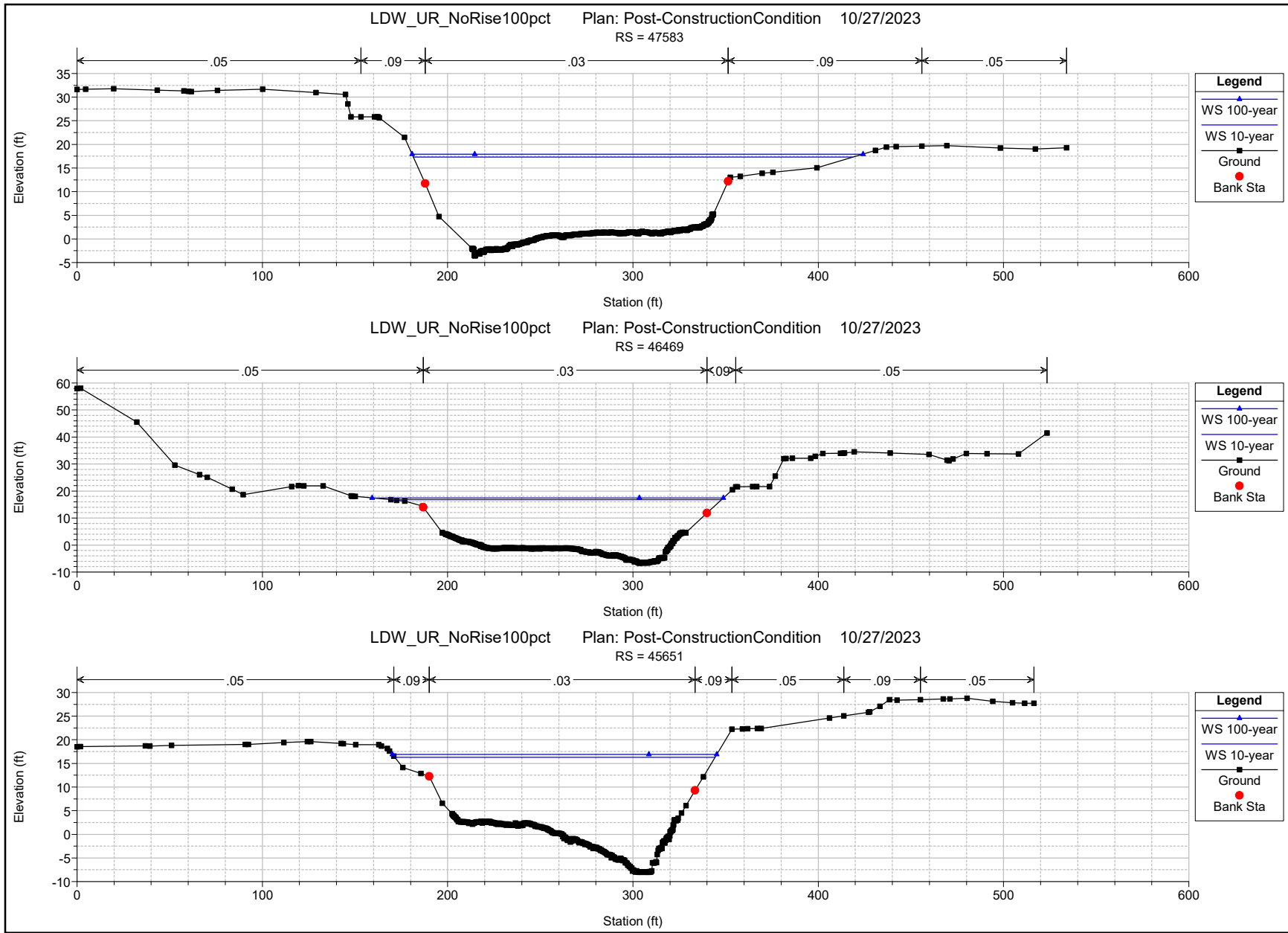


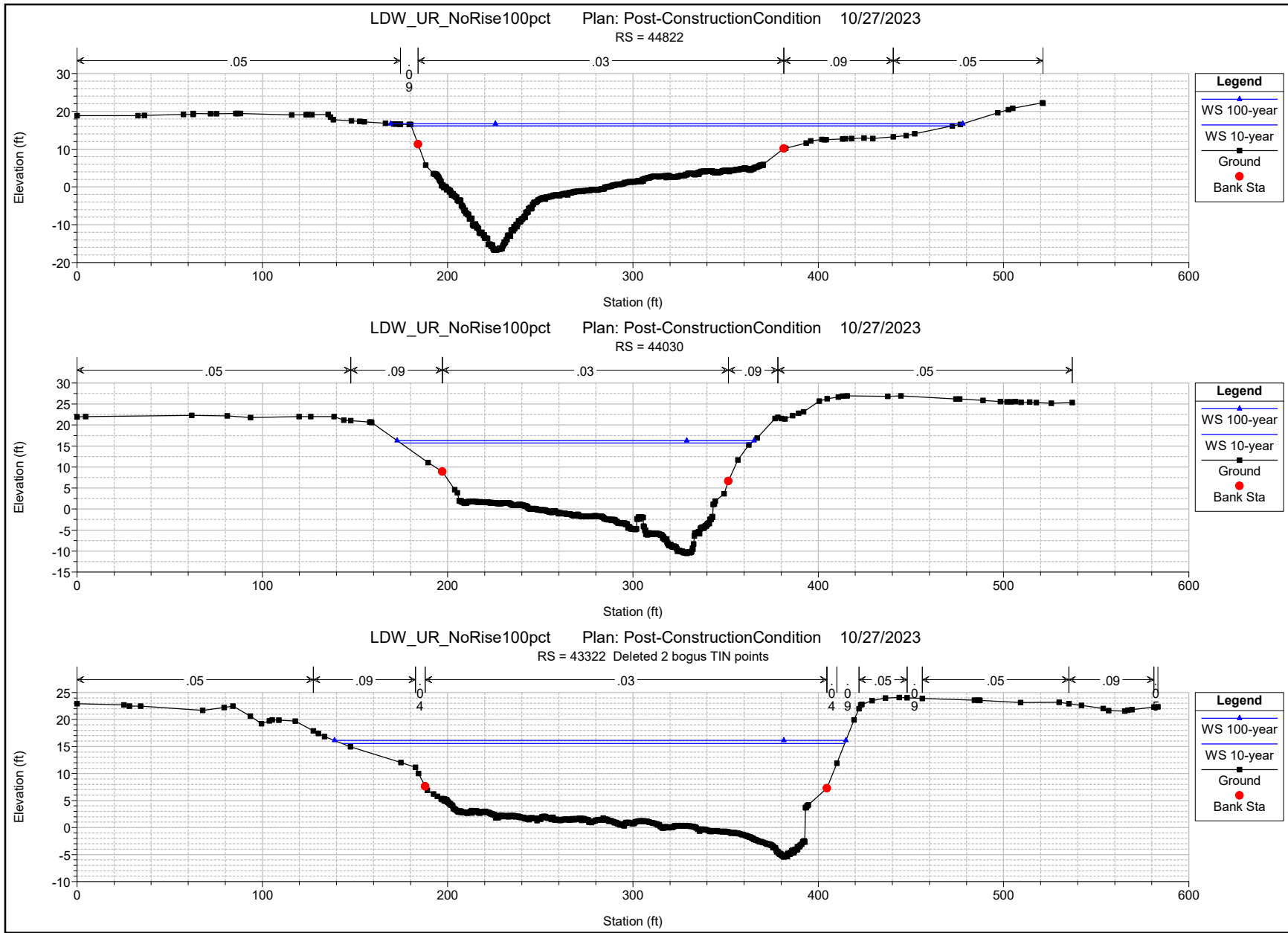


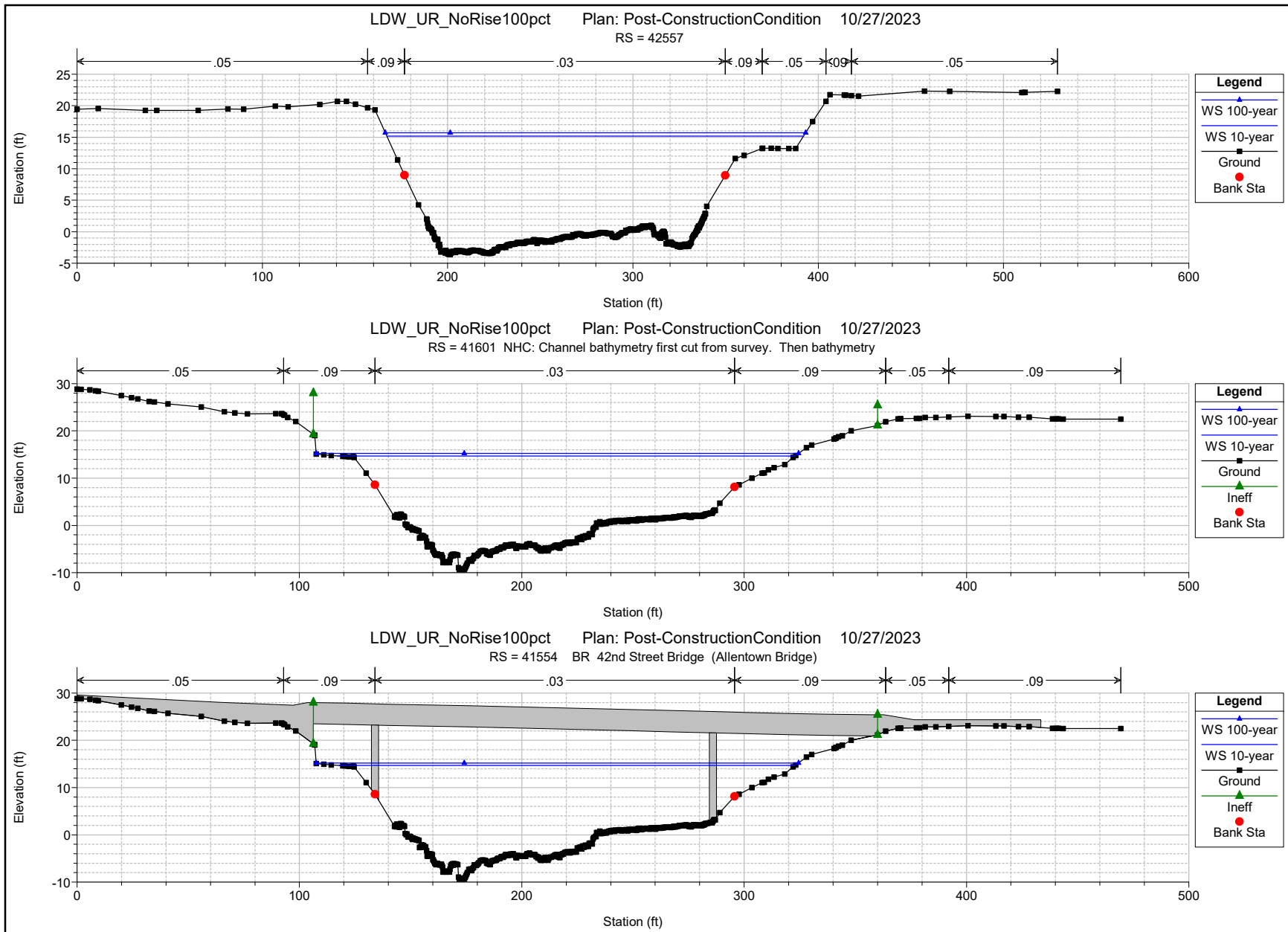


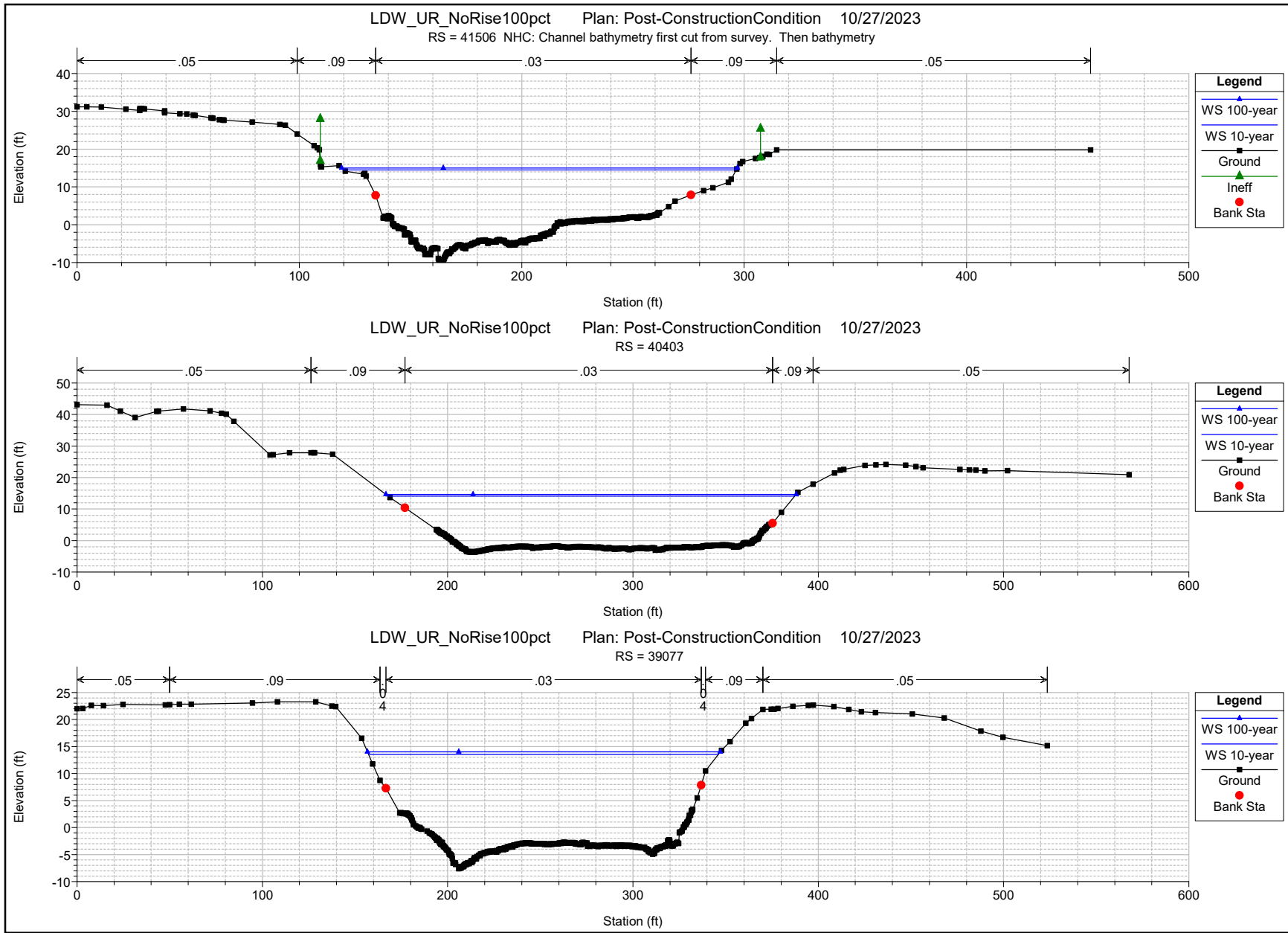




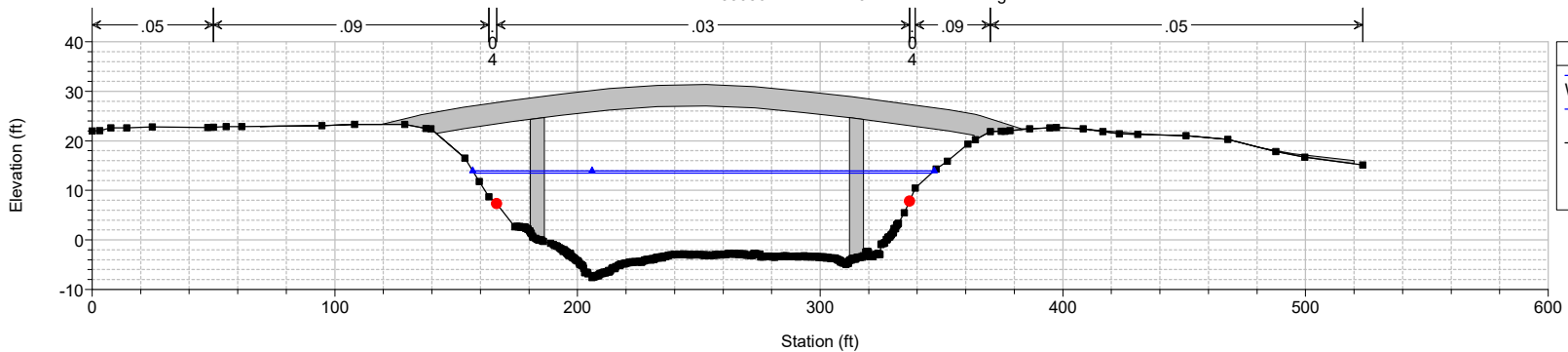




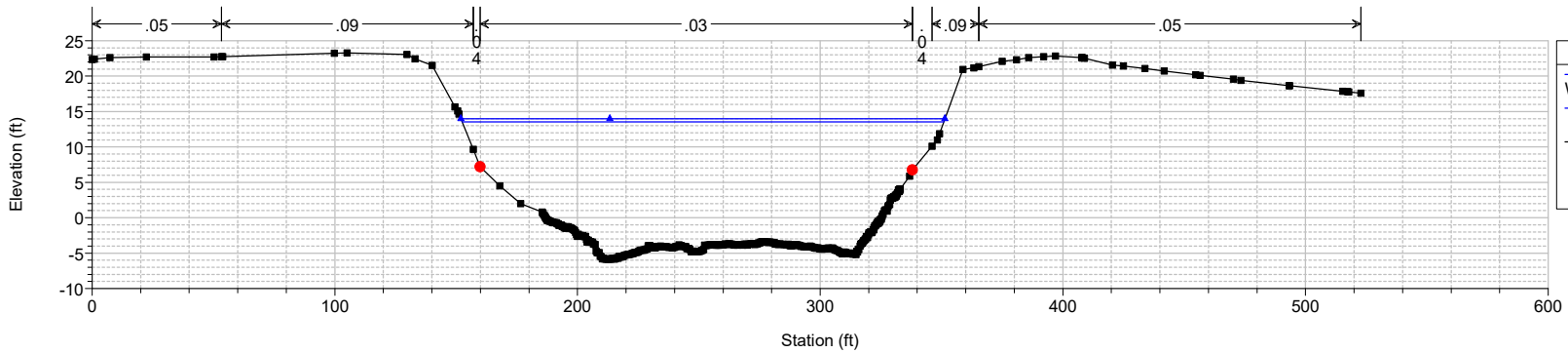




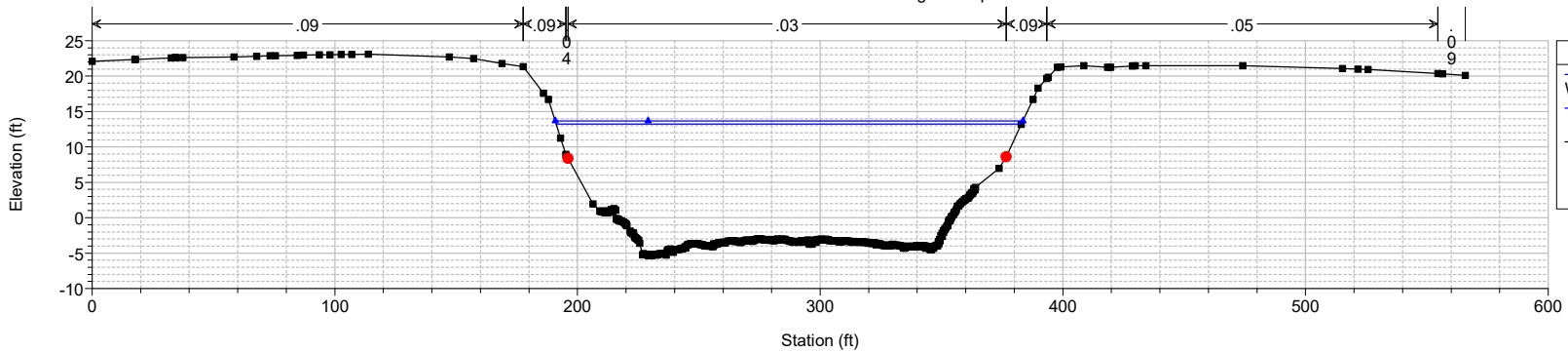
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 39056 BR S. 119th Street Footbridge

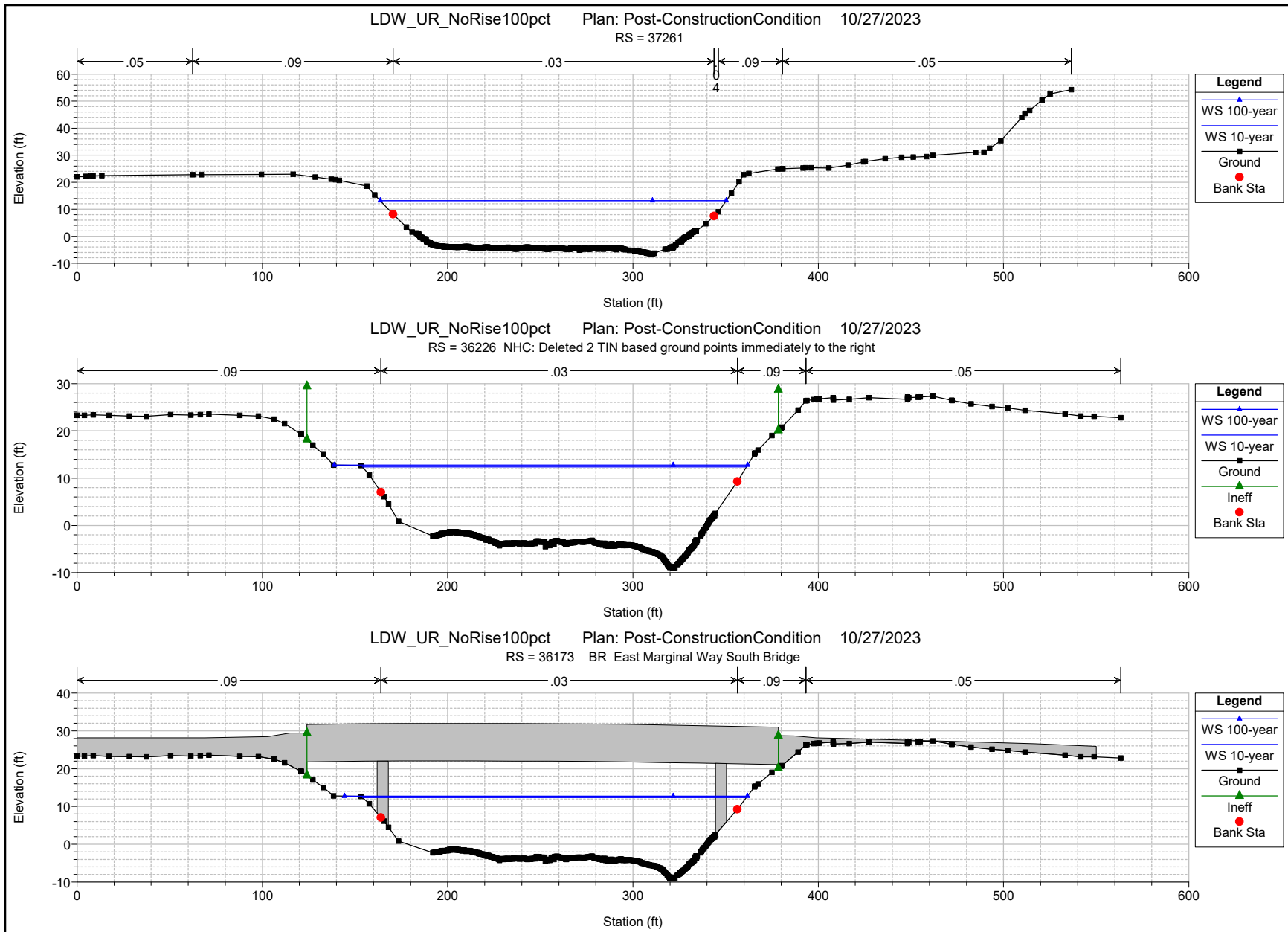


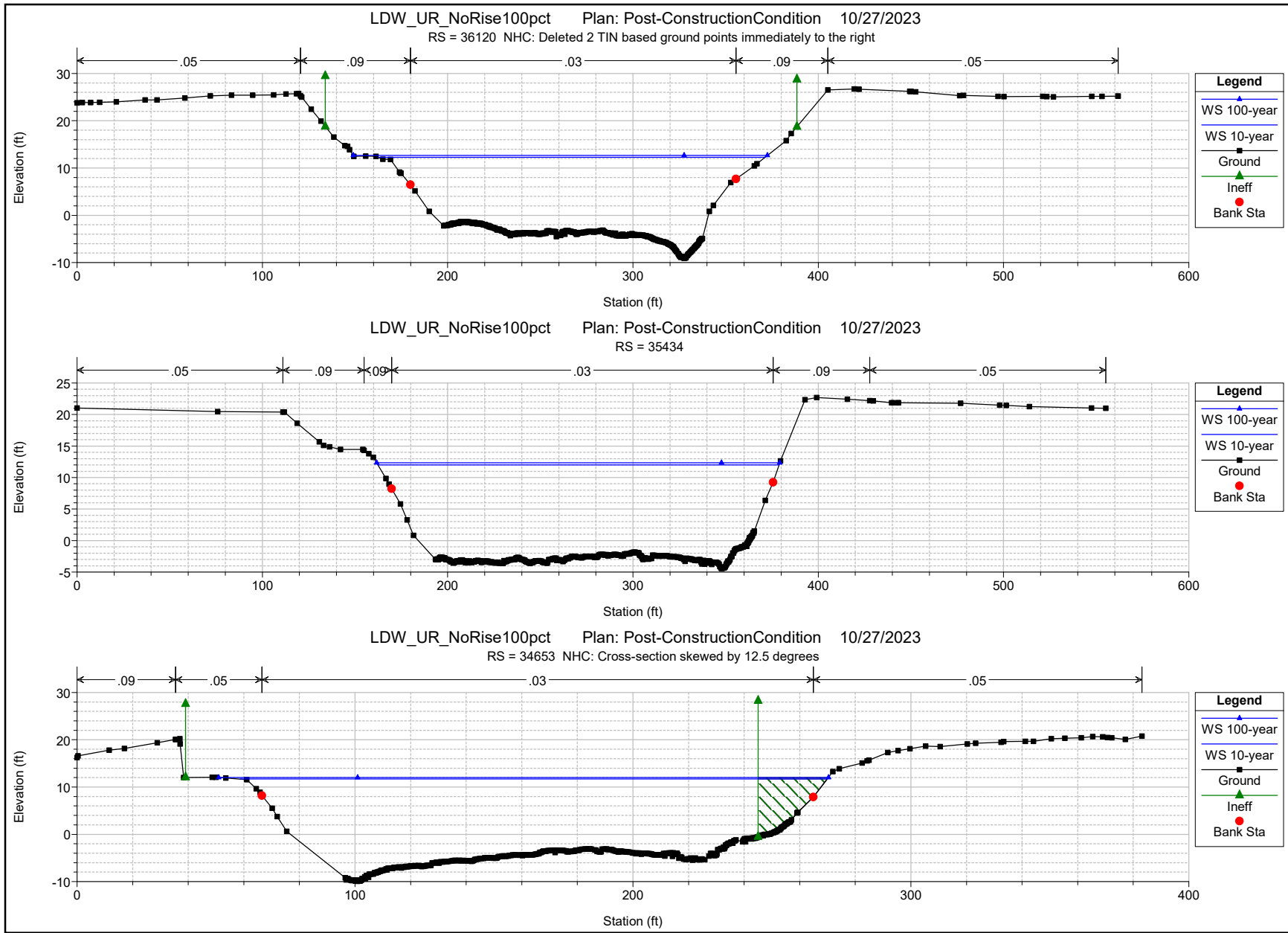
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 39014



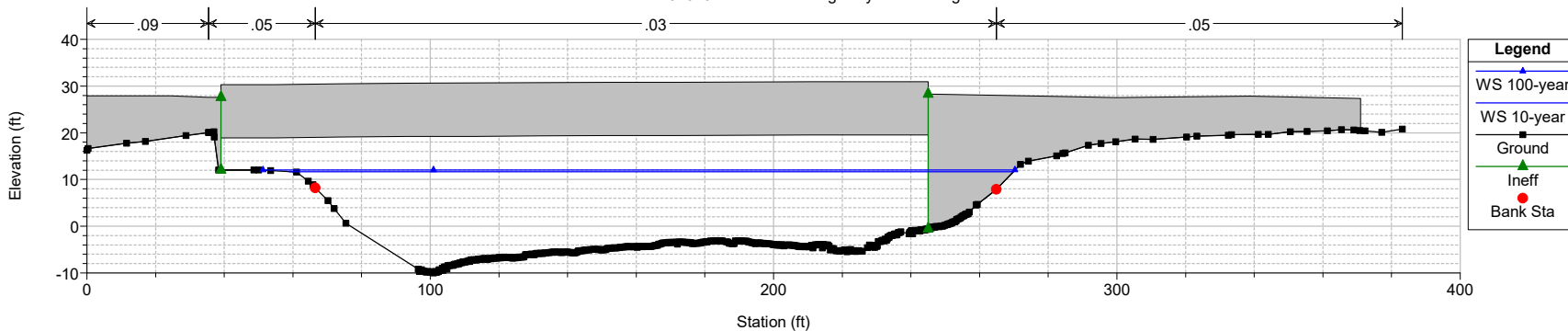
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 38343 NHC: Deleted 1 bogus TIN point



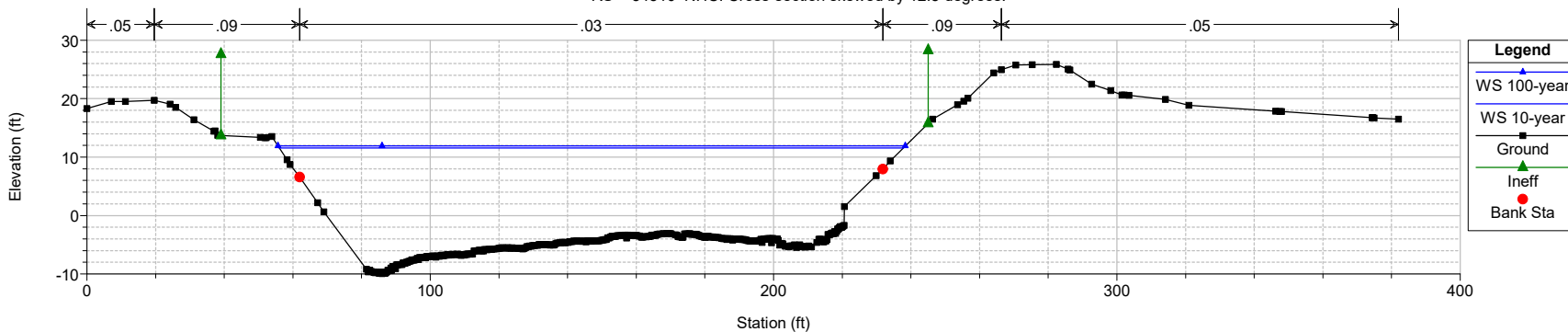




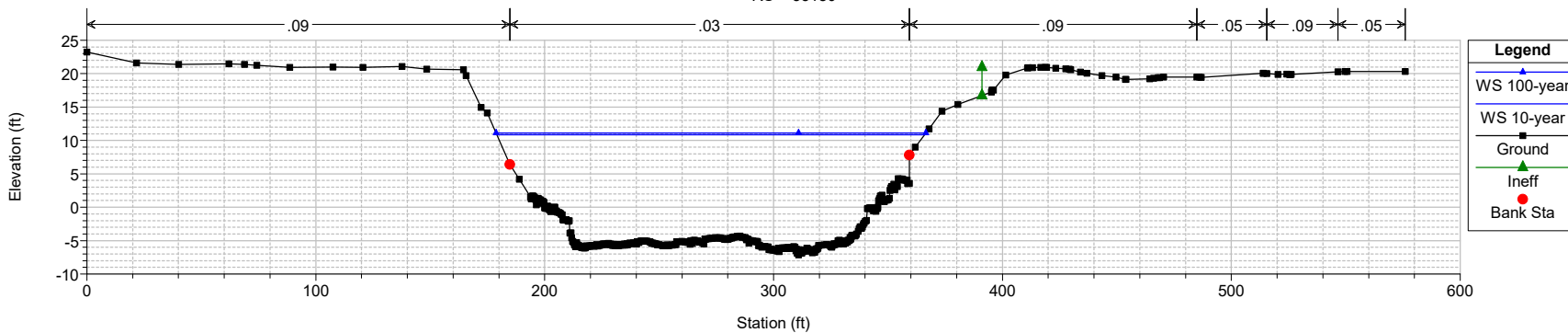
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 34579 BR Pacific Highway South Bridge



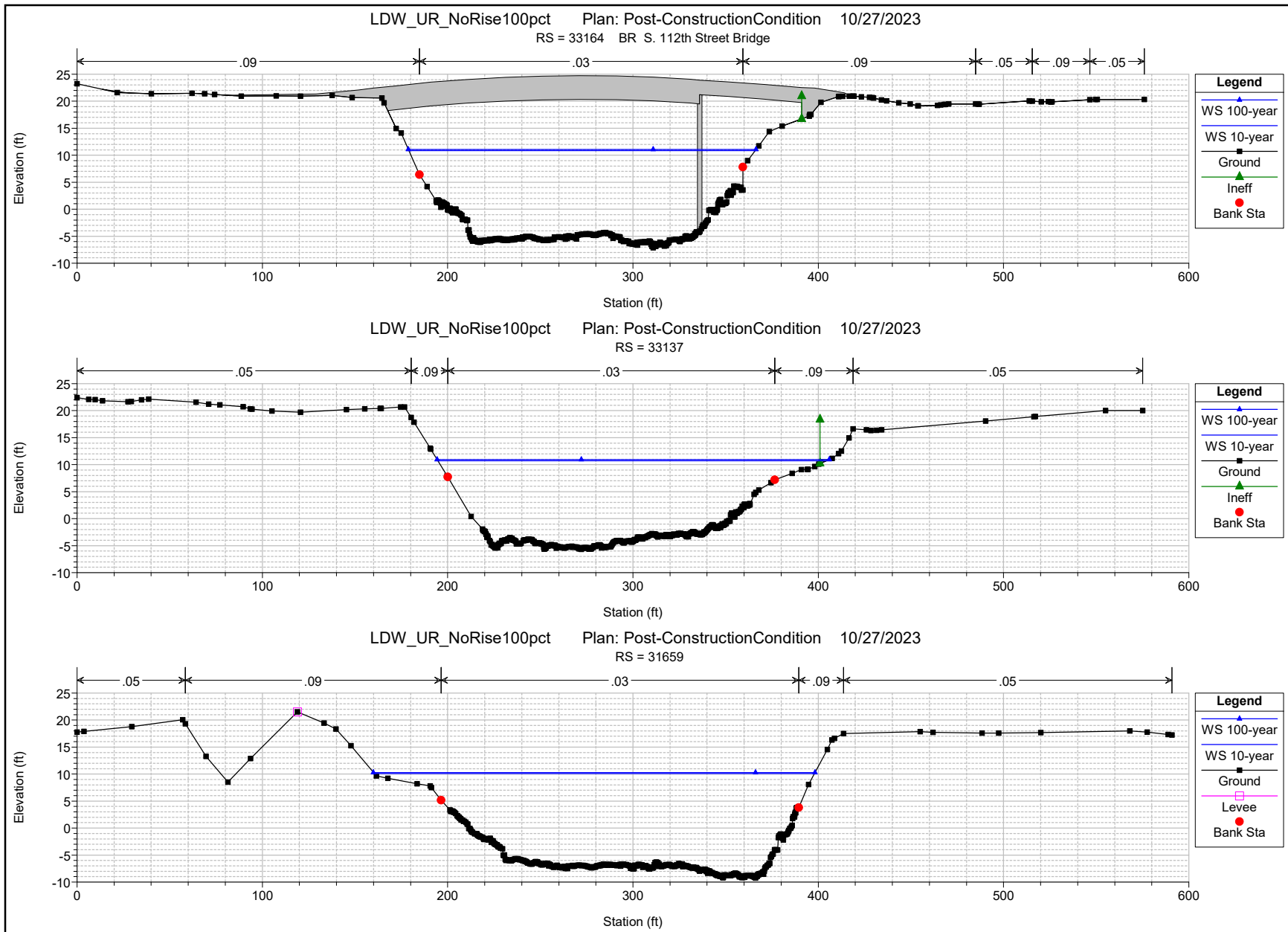
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 34510 NHC: Cross-section skewed by 12.5 degrees.

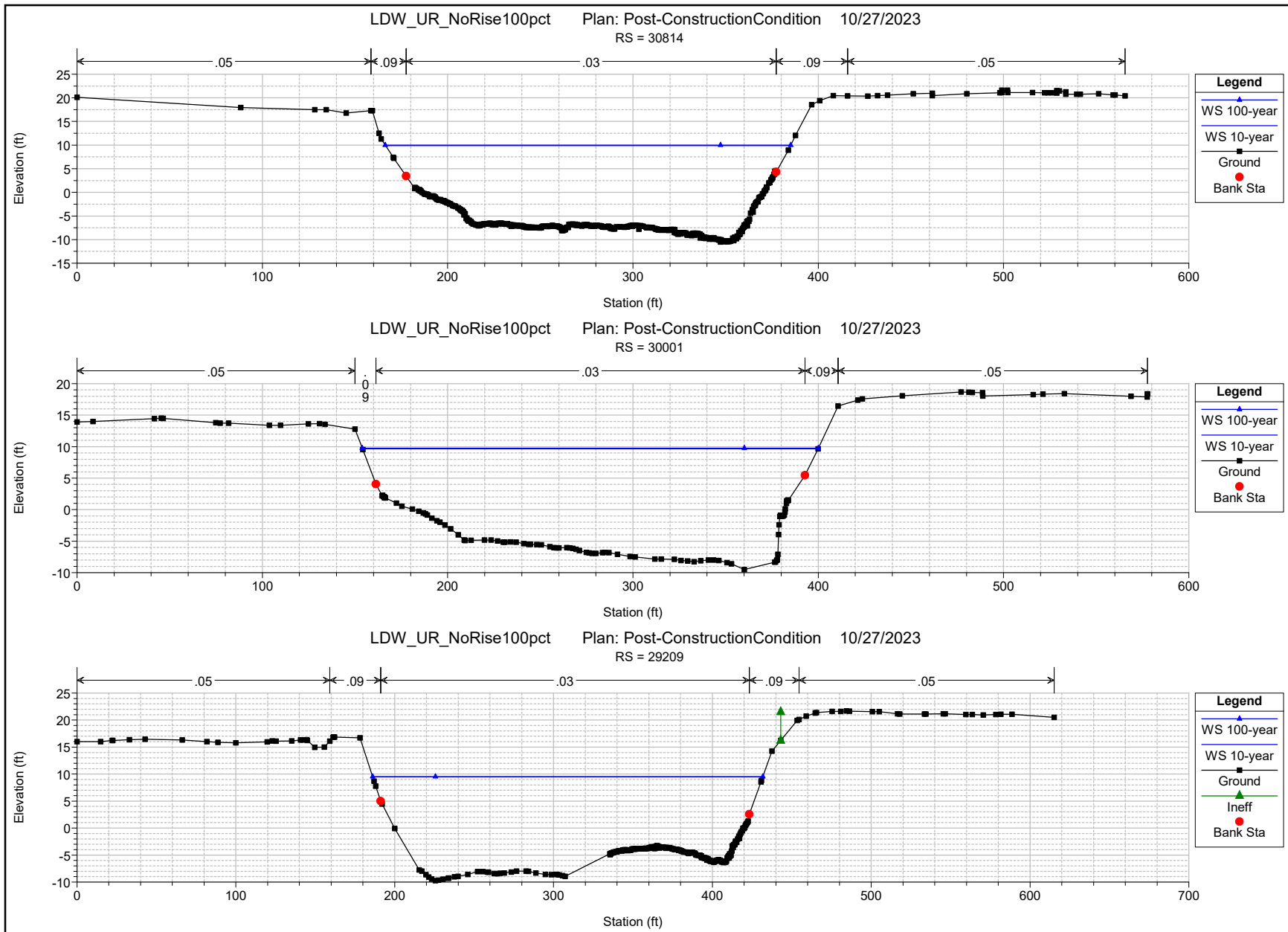


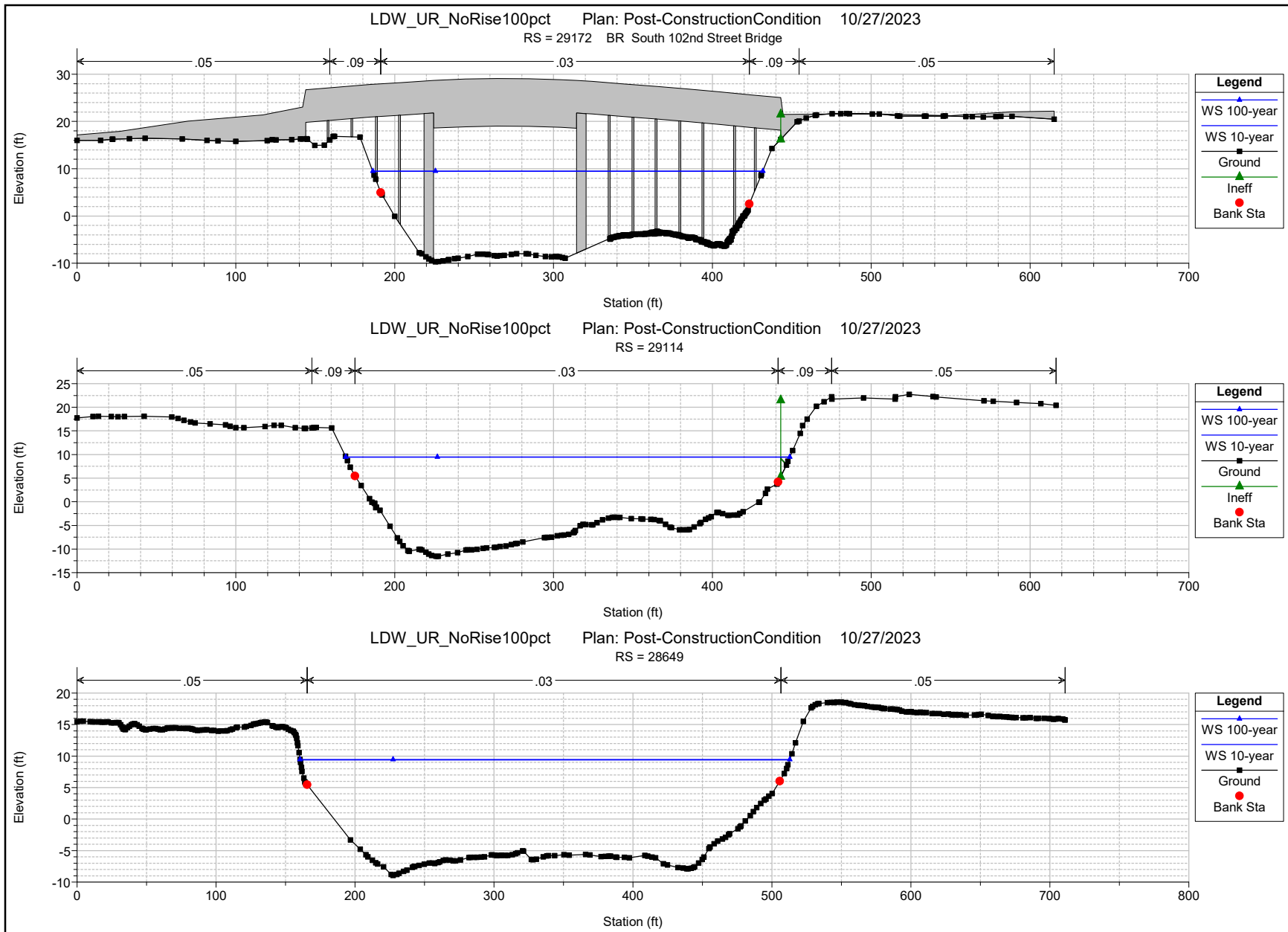
LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
 RS = 33180

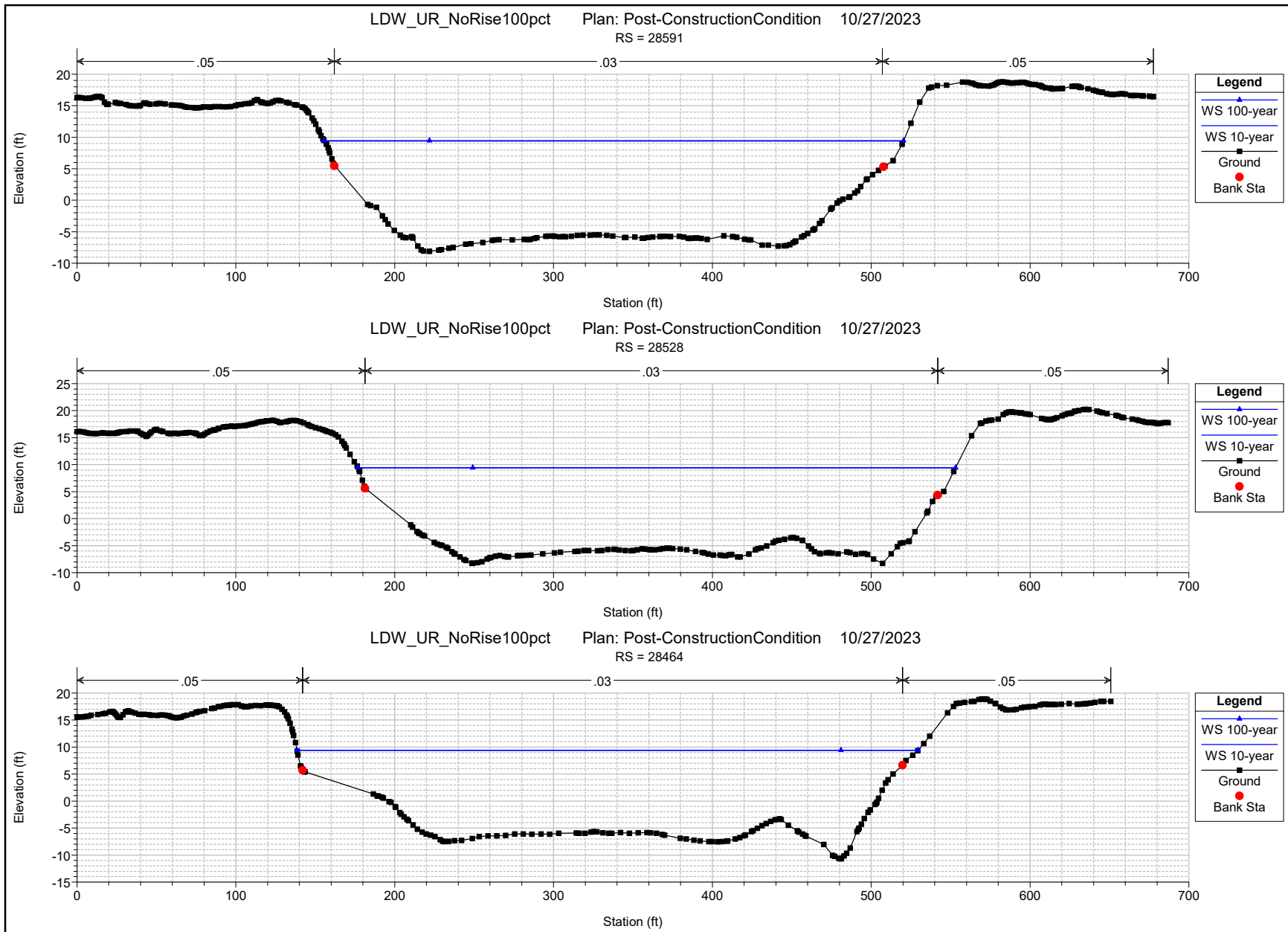


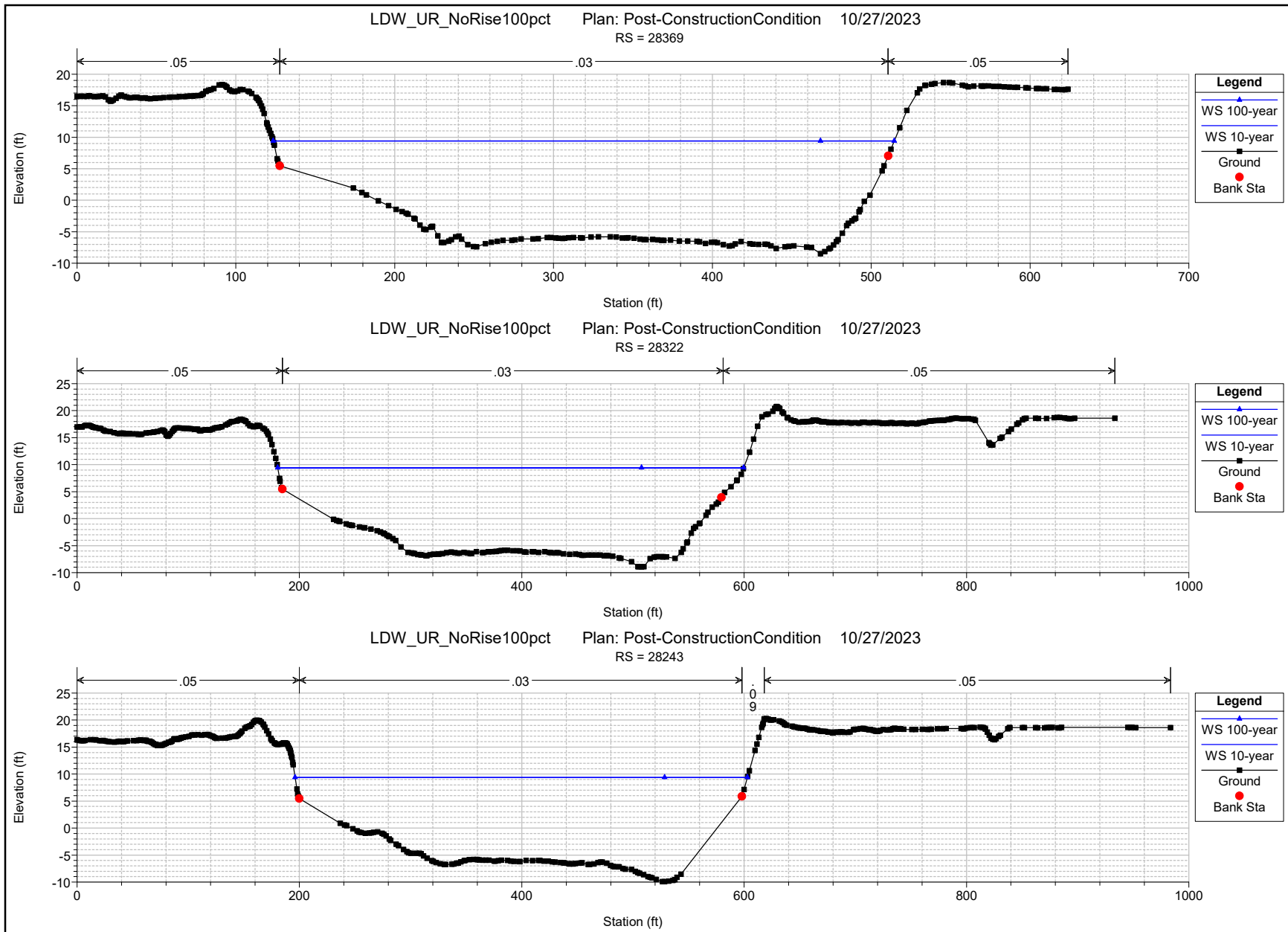


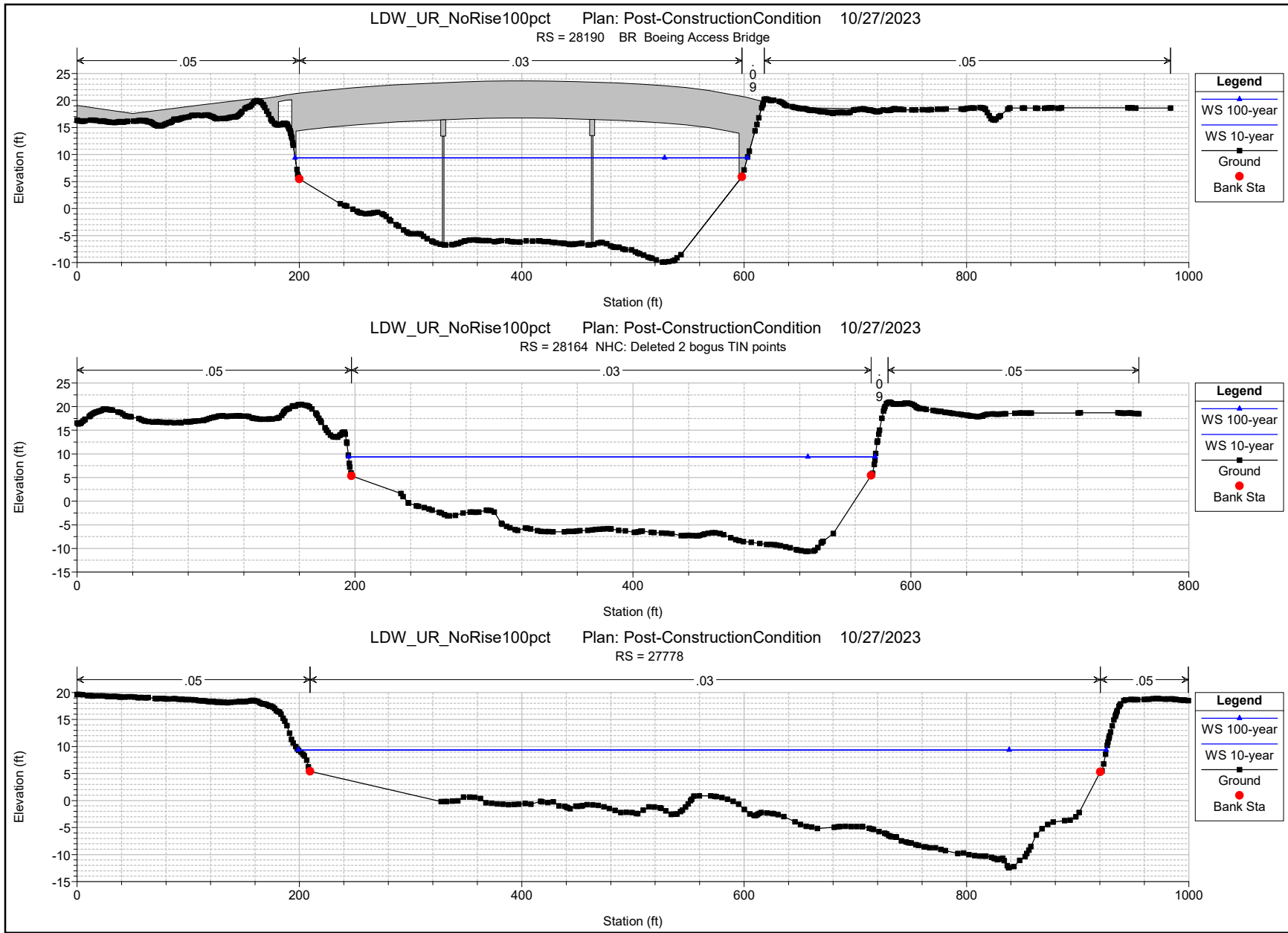


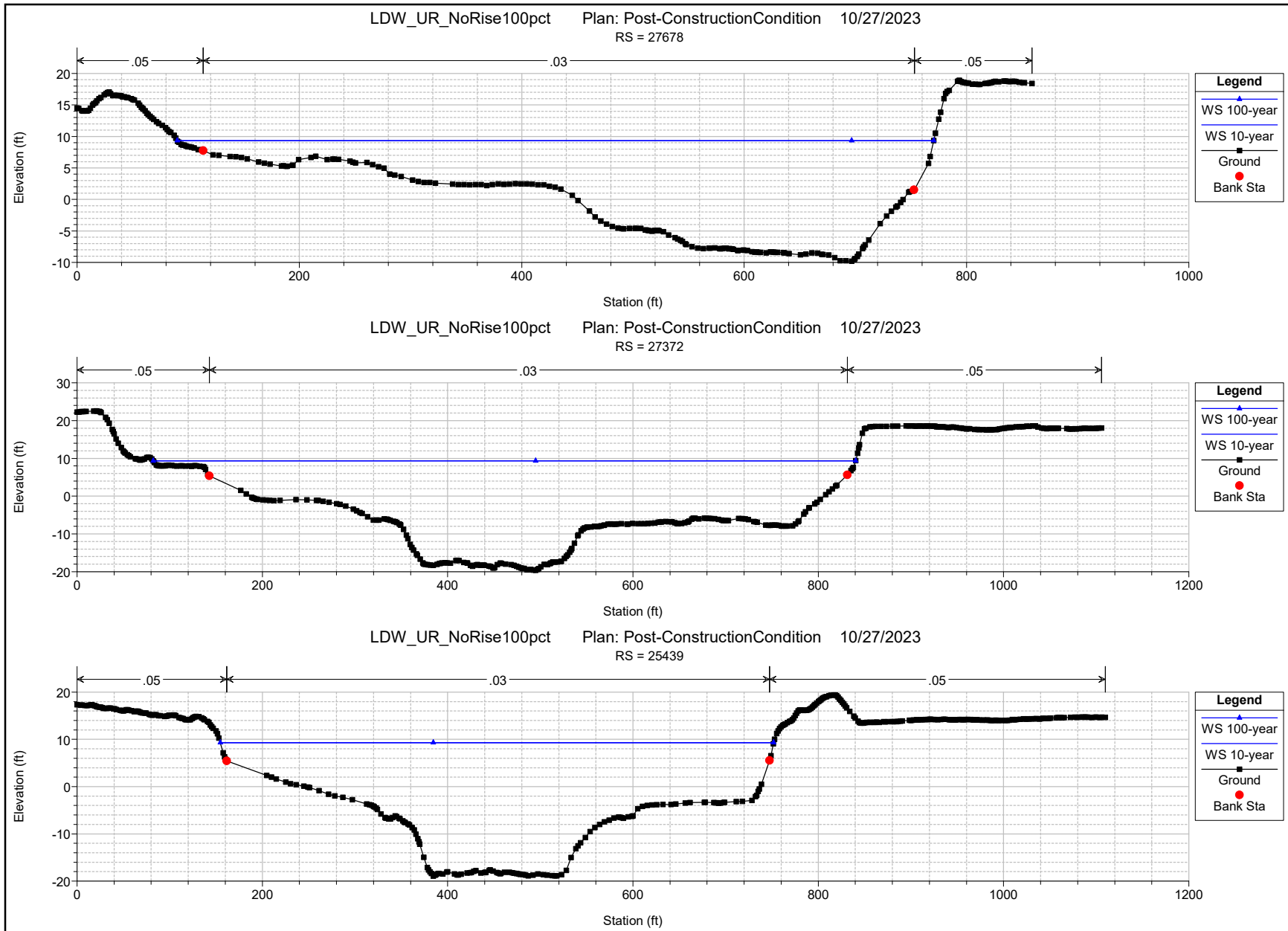




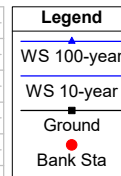
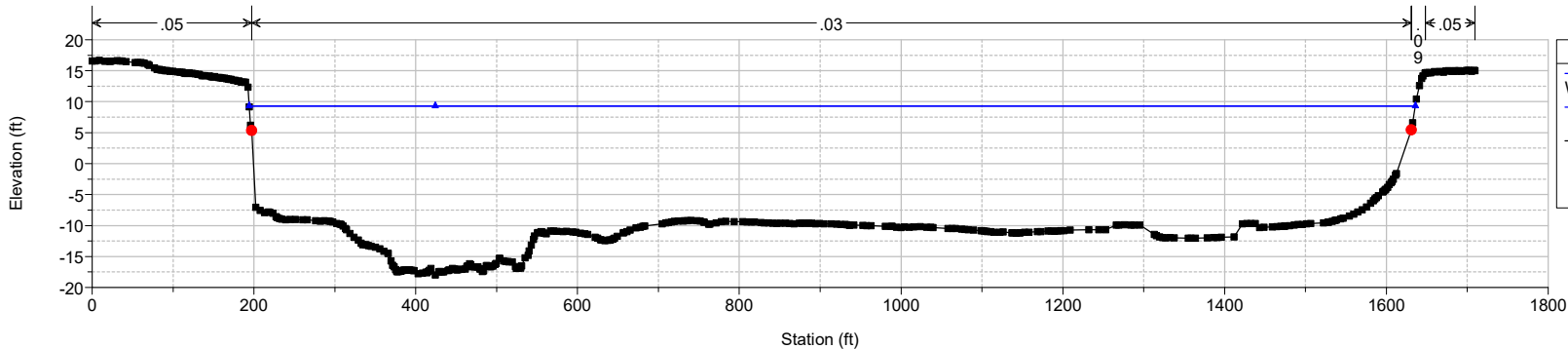




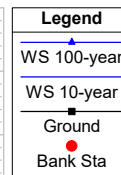
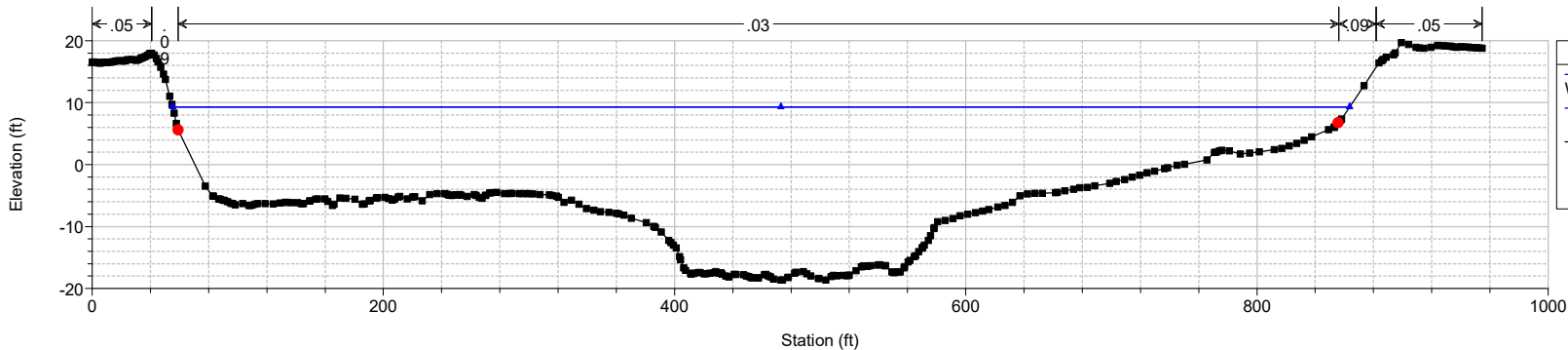




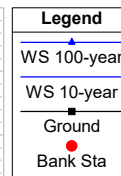
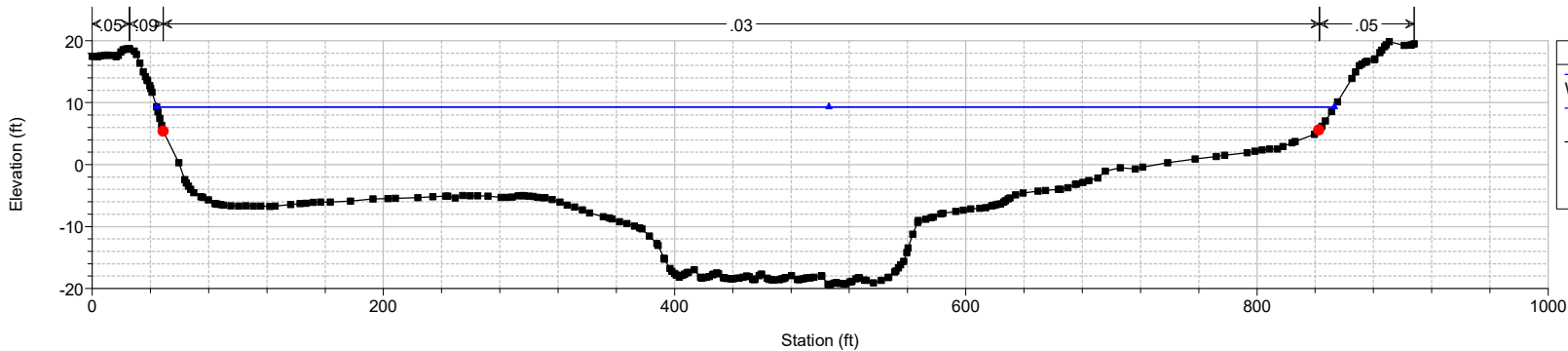
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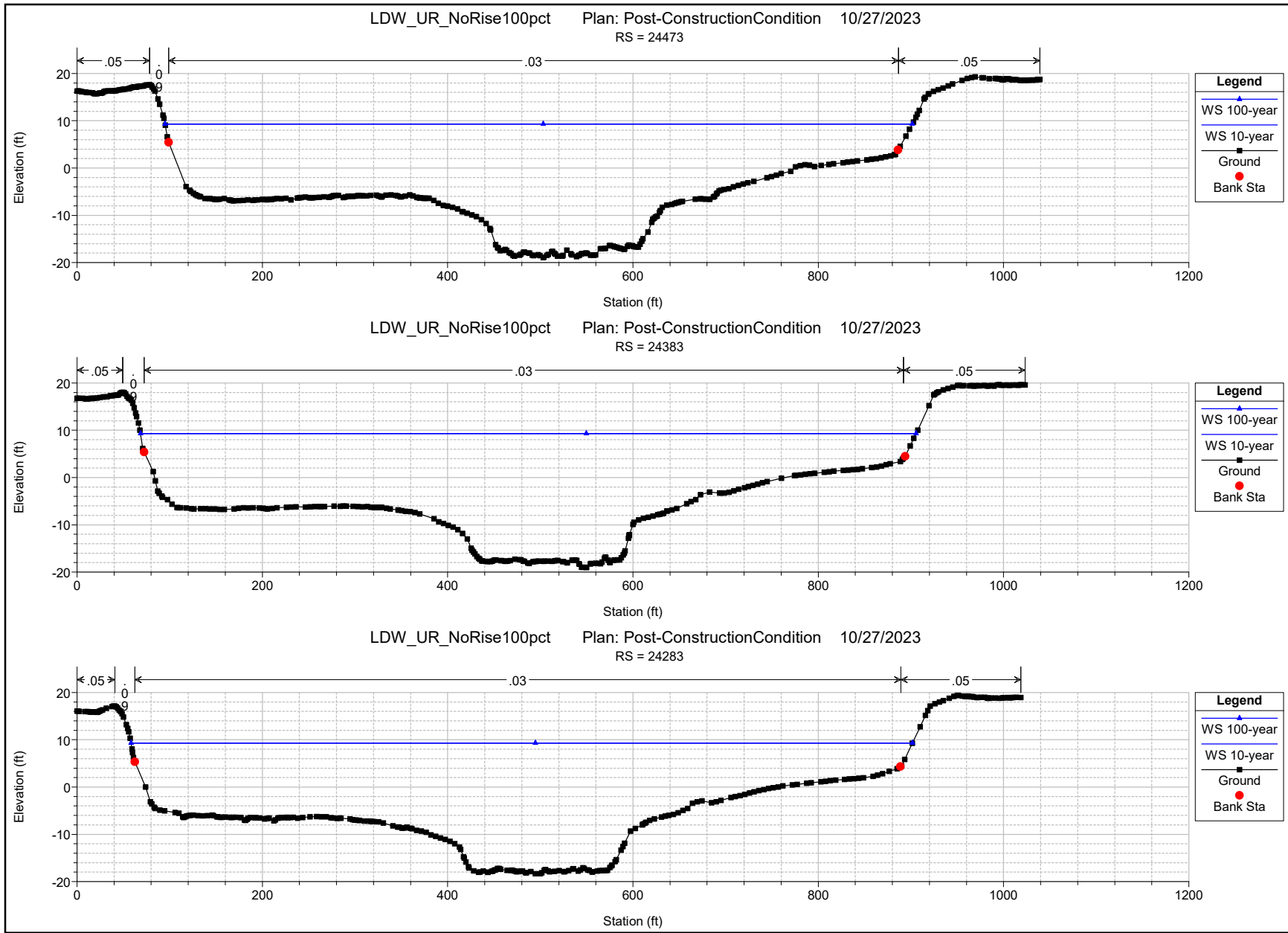
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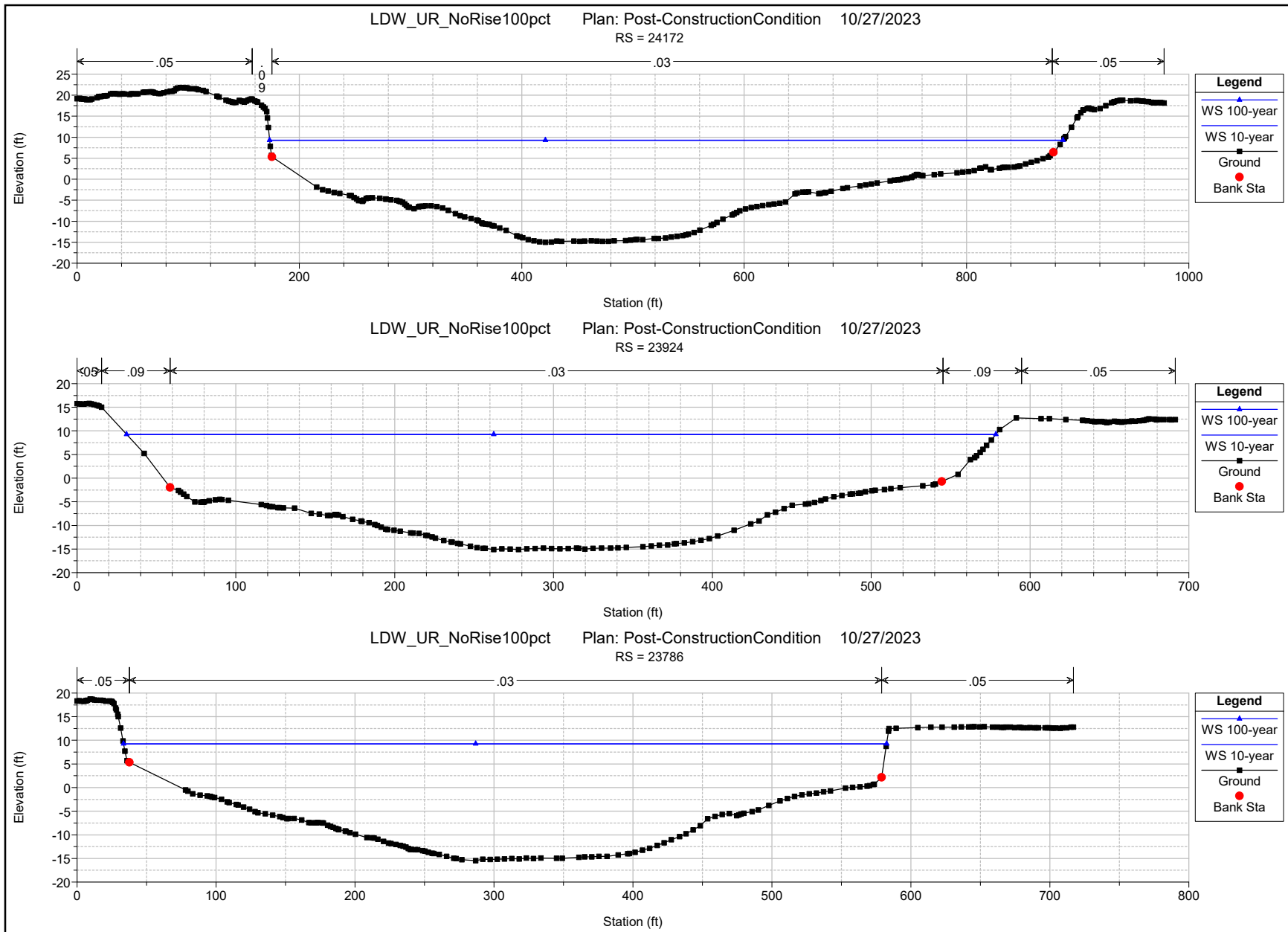


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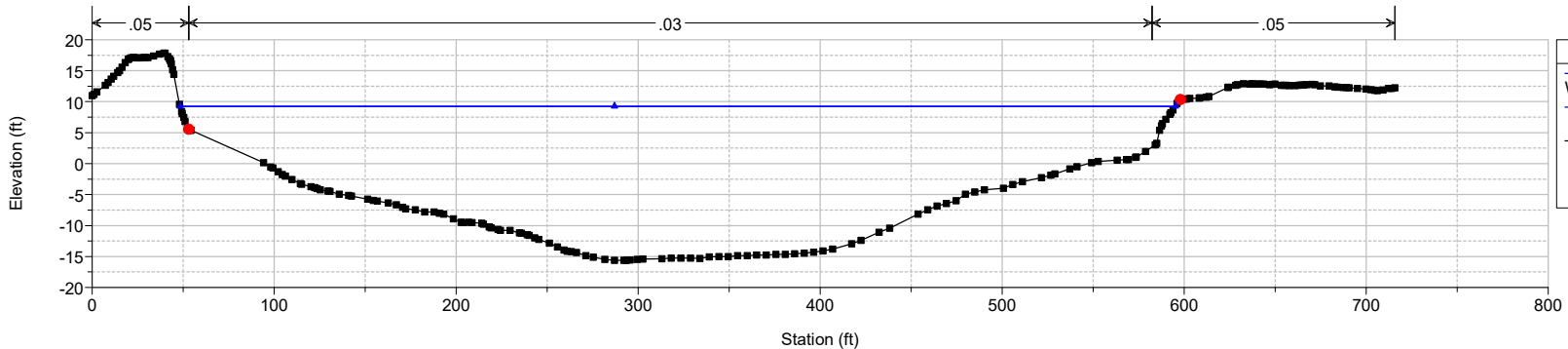




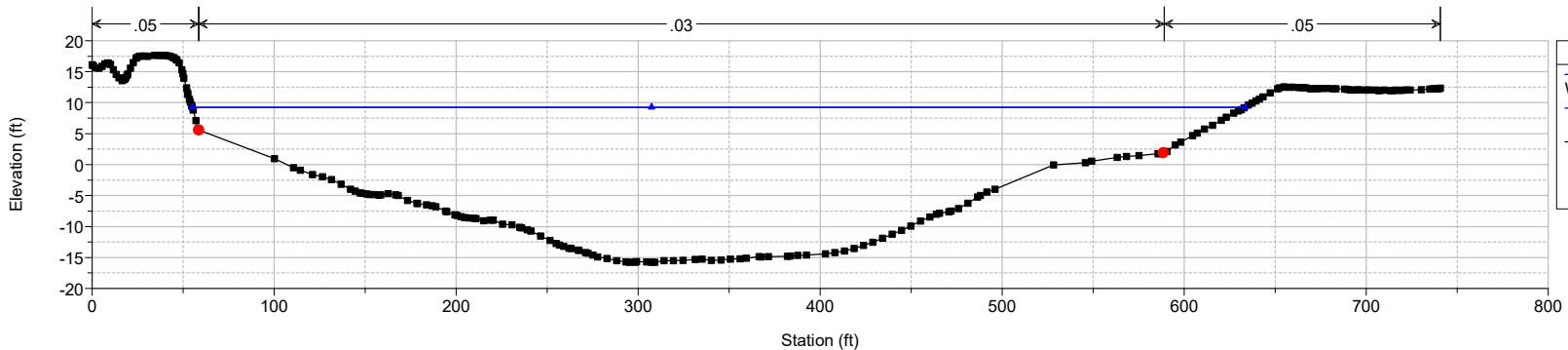




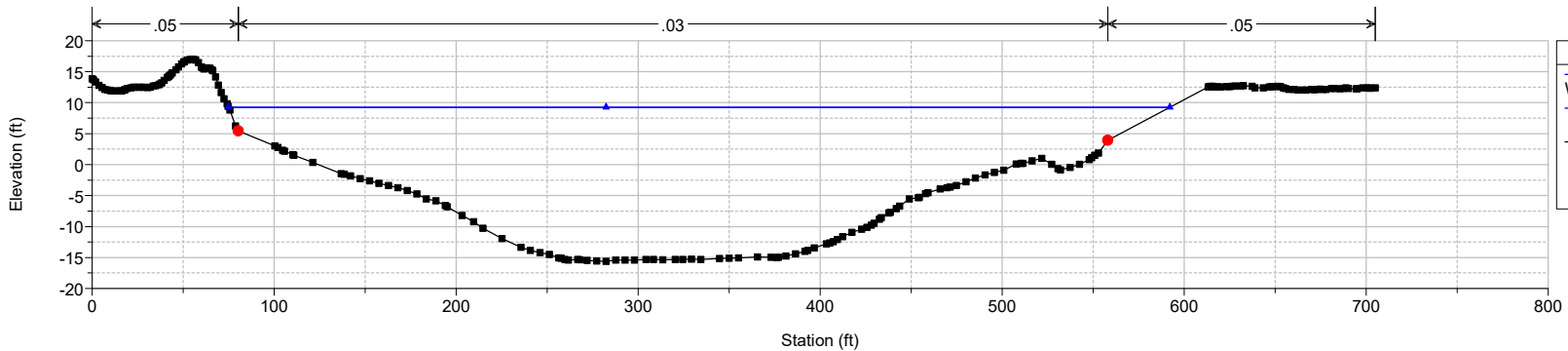
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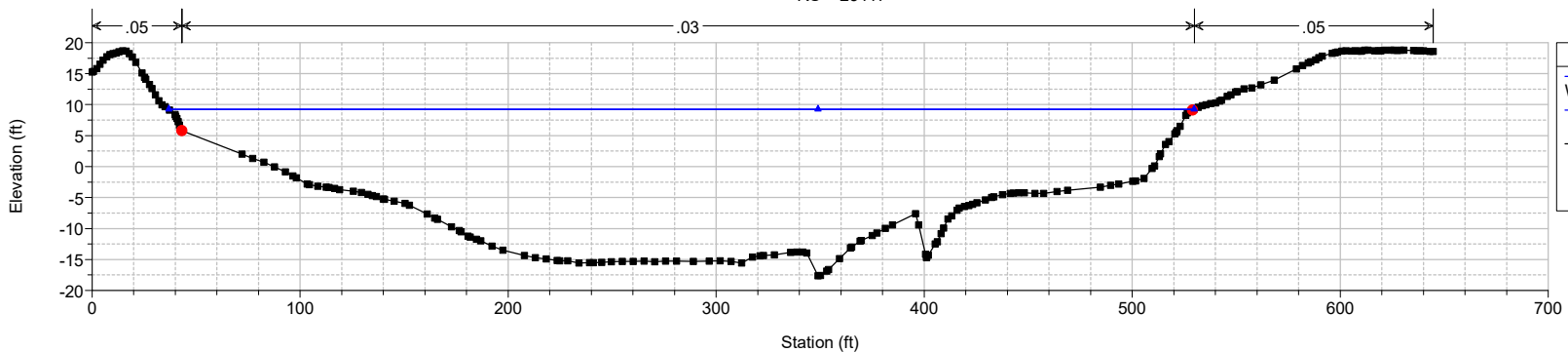
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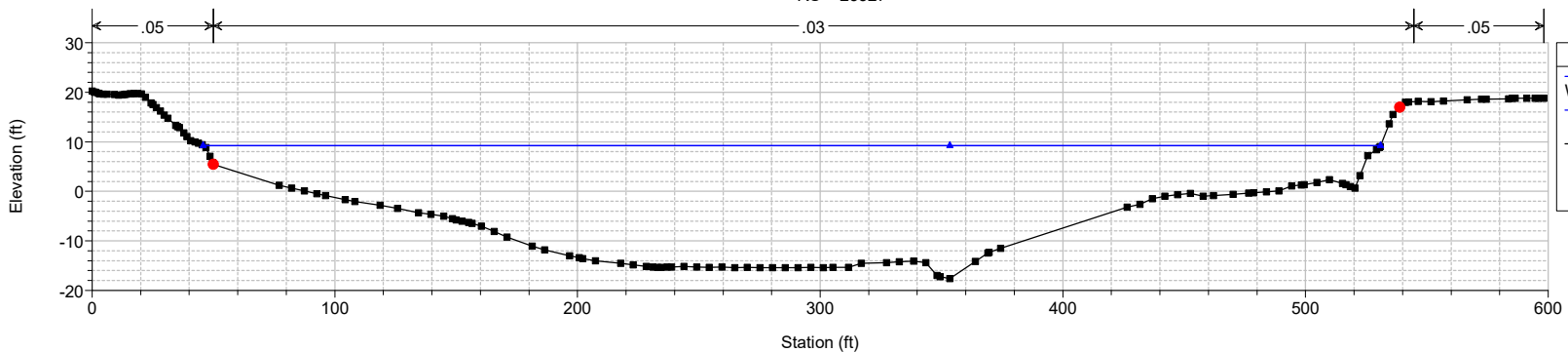
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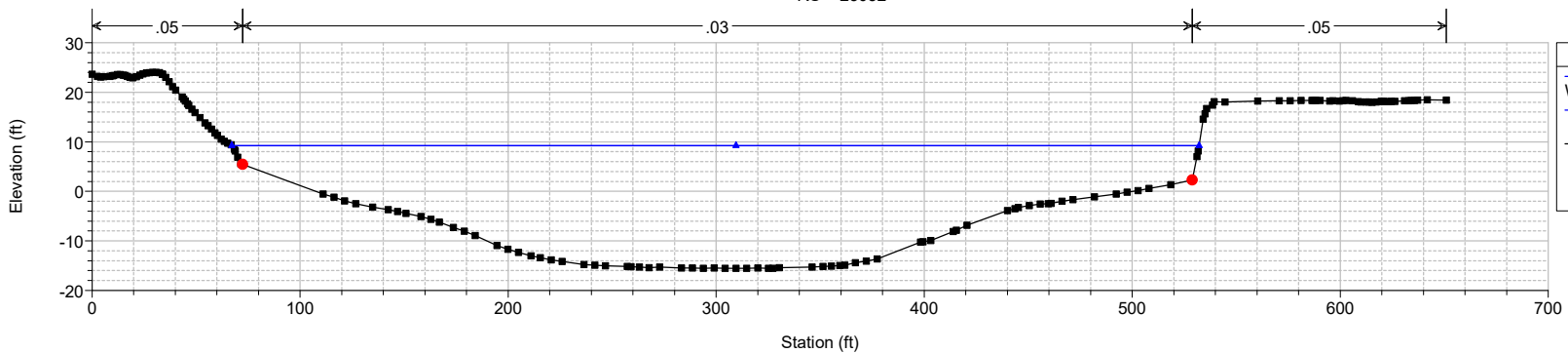
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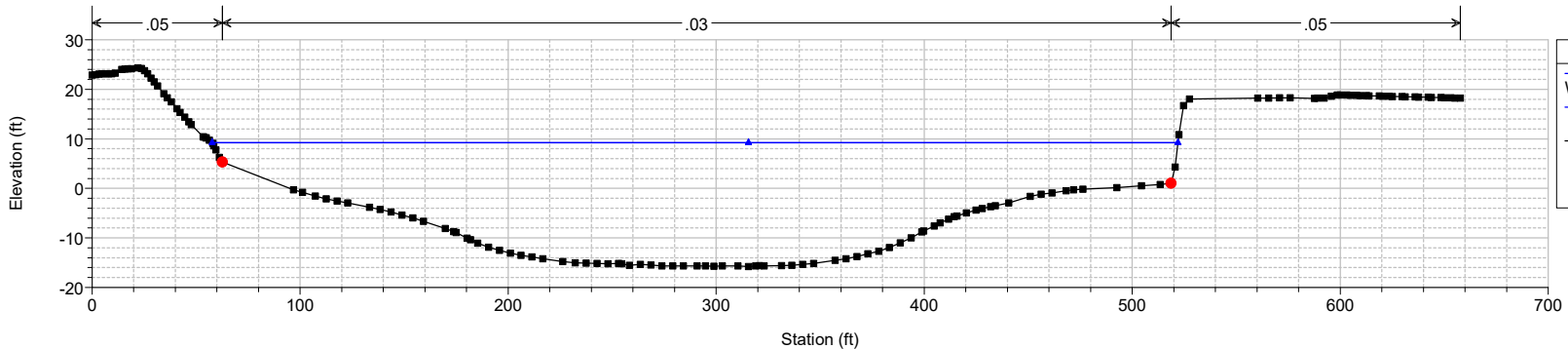
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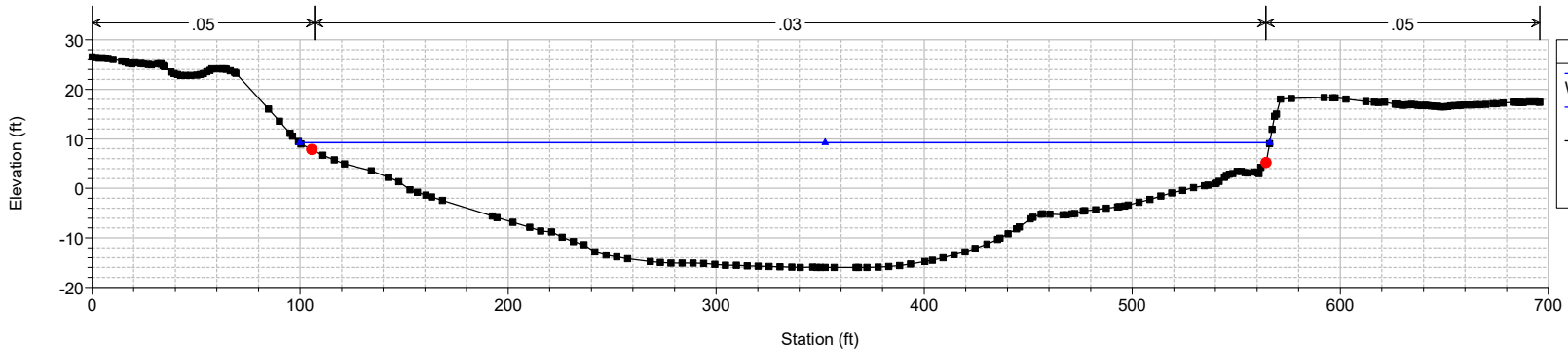
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LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
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LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
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LDW\_UR\_NoRise100pct Plan: Post-ConstructionCondition 10/27/2023  
RS = 22794

