

## **FINAL REPORT**

Appendix B Floodplain Impact Maps, High Water Marks, Elevation Certificates and Hydraulic Model Output

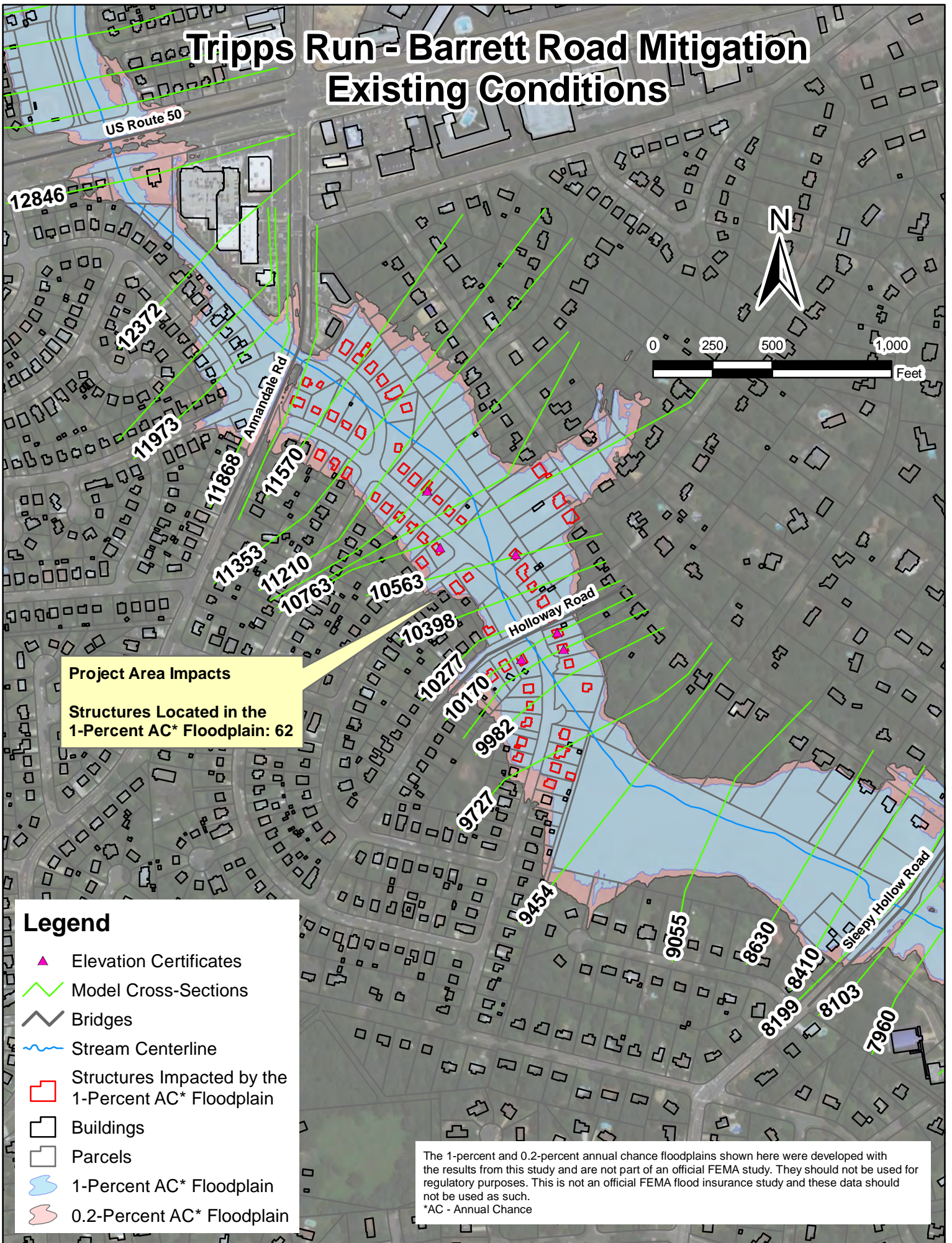
# **Appendix B FLOODPLAIN IMPACT MAPS, HIGH WATER MARKS, ELEVATION CERTIFICATES AND HYDRAULIC MODEL OUTPUT**



# Tripps Run Project Stationing Map



# Tripps Run - Barrett Road Mitigation Existing Conditions



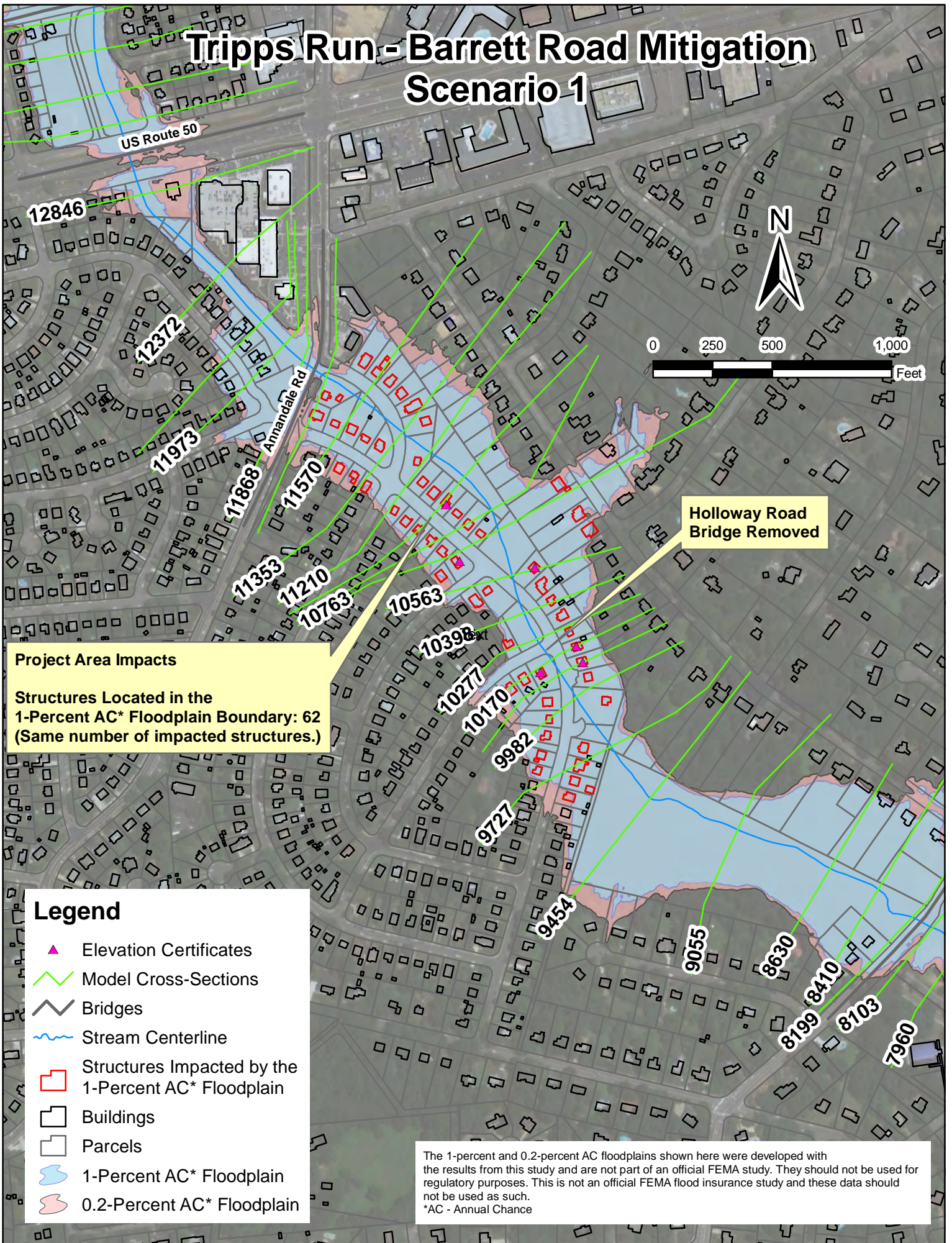
**Project Area Impacts**  
Structures Located in the 1-Percent AC\* Floodplain: 62

## Legend

- ▲ Elevation Certificates
- Model Cross-Sections
- Bridges
- Stream Centerline
- Structures Impacted by the 1-Percent AC\* Floodplain
- Buildings
- Parcels
- 1-Percent AC\* Floodplain
- 0.2-Percent AC\* Floodplain

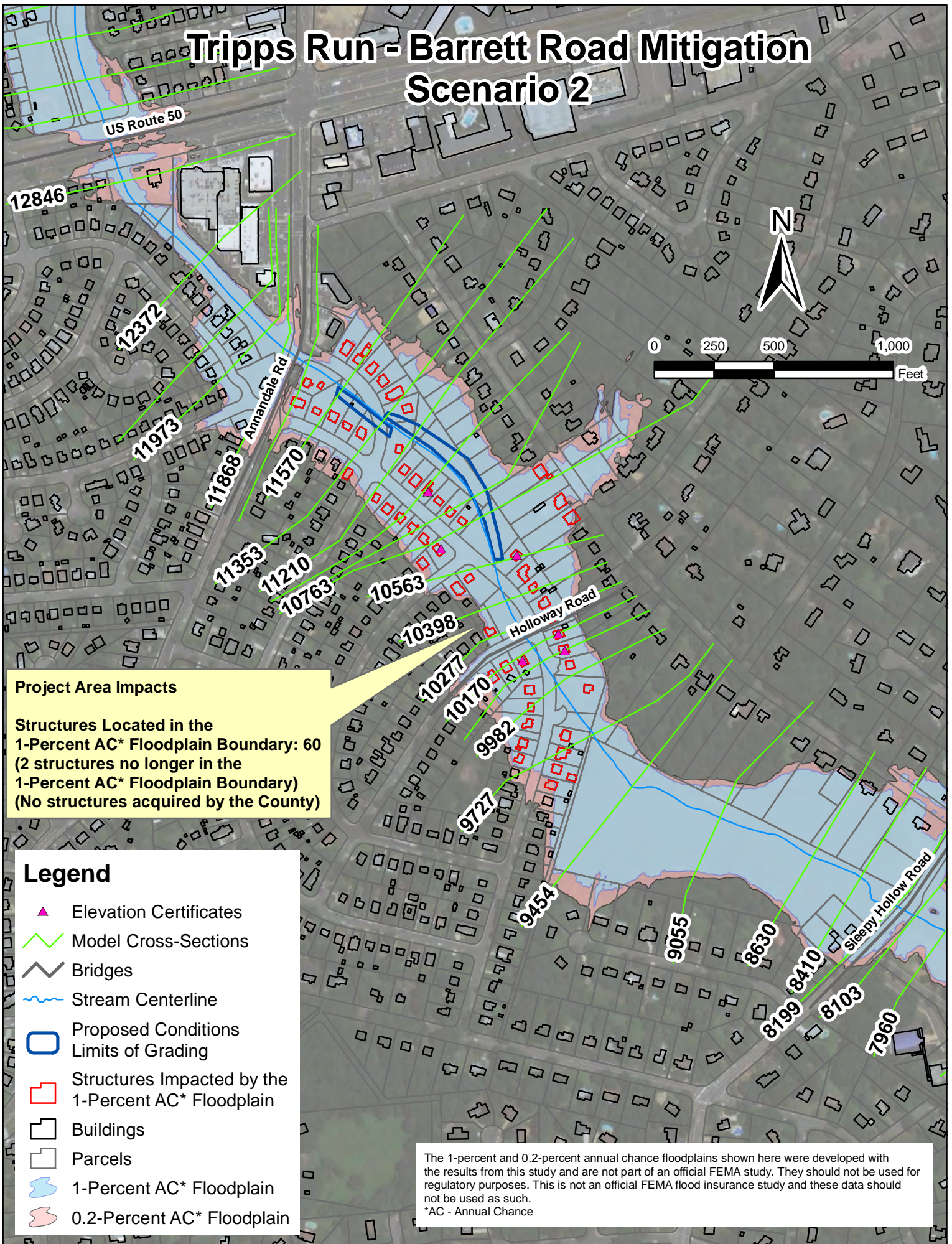
The 1-percent and 0.2-percent annual chance floodplains shown here were developed with the results from this study and are not part of an official FEMA study. They should not be used for regulatory purposes. This is not an official FEMA flood insurance study and these data should not be used as such.  
\*AC - Annual Chance

# Tripps Run - Barrett Road Mitigation Scenario 1



The 1-percent and 0.2-percent AC floodplains shown here were developed with the results from this study and are not part of an official FEMA study. They should not be used for regulatory purposes. This is not an official FEMA flood insurance study and these data should not be used as such.  
 \*AC - Annual Chance

# Tripps Run - Barrett Road Mitigation Scenario 2



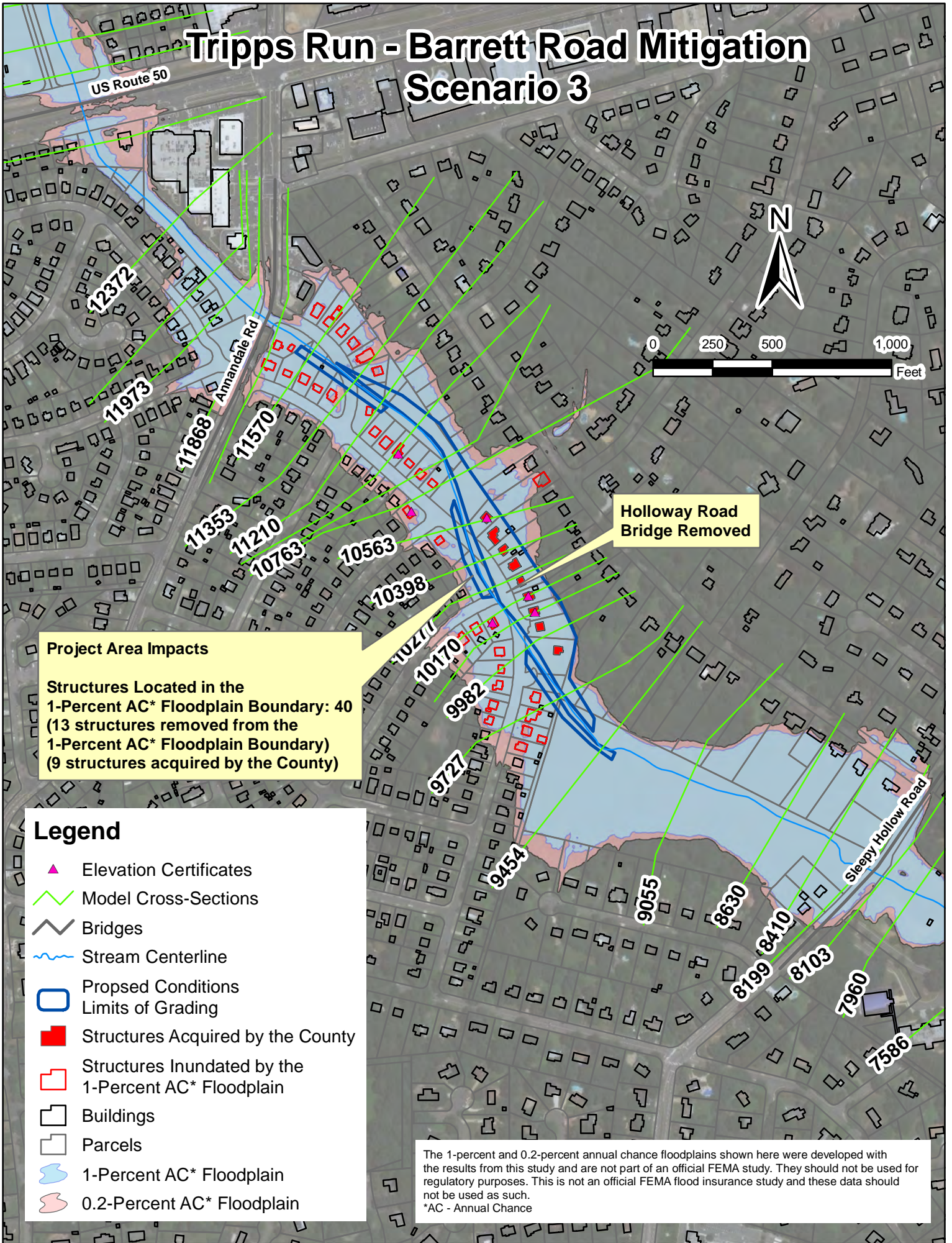
**Project Area Impacts**

Structures Located in the 1-Percent AC\* Floodplain Boundary: 60  
 (2 structures no longer in the 1-Percent AC\* Floodplain Boundary)  
 (No structures acquired by the County)

- Legend**
- ▲ Elevation Certificates
  - Model Cross-Sections
  - Bridges
  - Stream Centerline
  - ▭ Proposed Conditions Limits of Grading
  - ▭ Structures Impacted by the 1-Percent AC\* Floodplain
  - ▭ Buildings
  - ▭ Parcels
  - 1-Percent AC\* Floodplain
  - 0.2-Percent AC\* Floodplain

The 1-percent and 0.2-percent annual chance floodplains shown here were developed with the results from this study and are not part of an official FEMA study. They should not be used for regulatory purposes. This is not an official FEMA flood insurance study and these data should not be used as such.  
 \*AC - Annual Chance

# Tripps Run - Barrett Road Mitigation Scenario 3



## Project Area Impacts

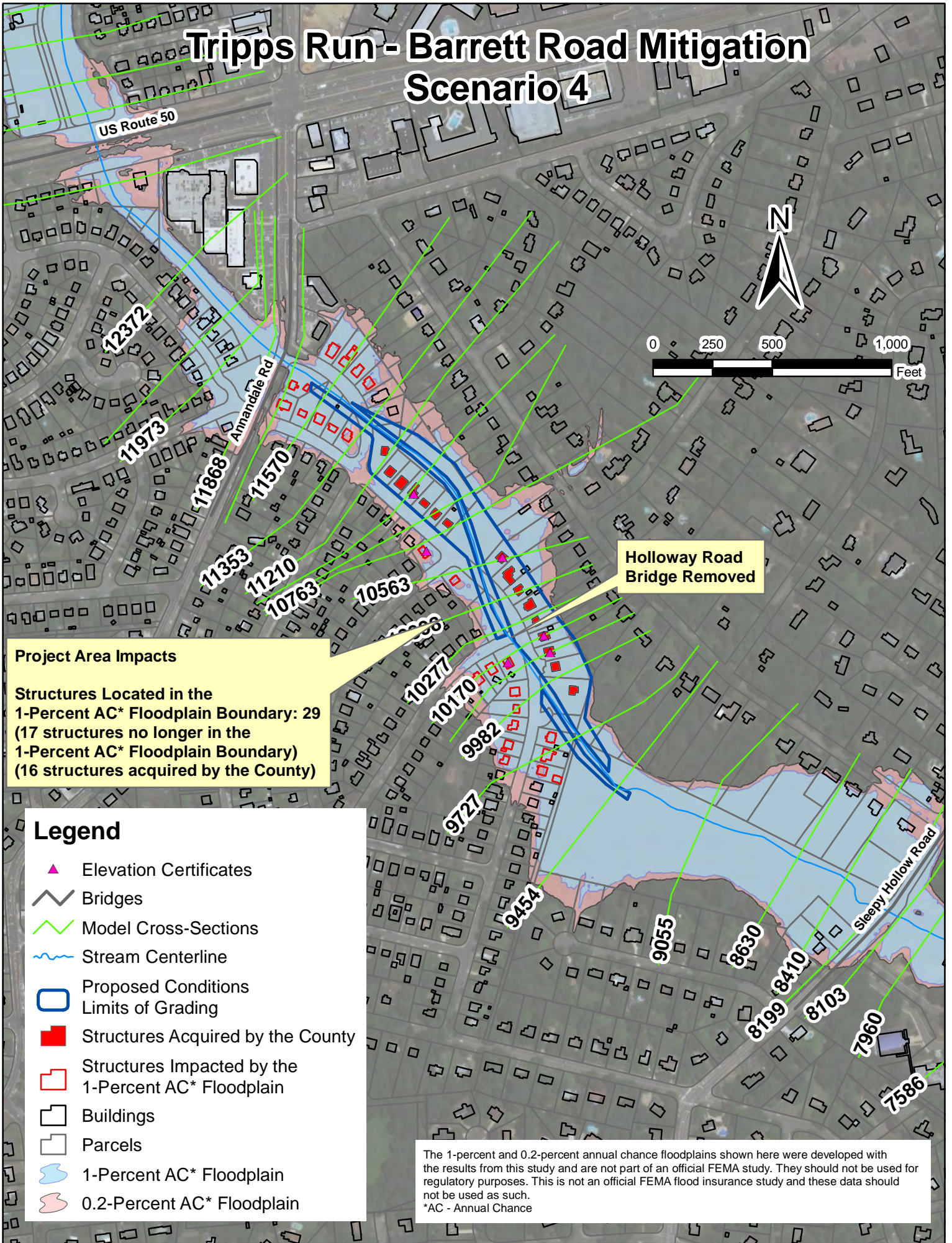
Structures Located in the  
 1-Percent AC\* Floodplain Boundary: 40  
 (13 structures removed from the  
 1-Percent AC\* Floodplain Boundary)  
 (9 structures acquired by the County)

## Legend

- ▲ Elevation Certificates
- Model Cross-Sections
- Bridges
- Stream Centerline
- Proposed Conditions Limits of Grading
- Structures Acquired by the County
- Structures Inundated by the 1-Percent AC\* Floodplain
- Buildings
- Parcels
- 1-Percent AC\* Floodplain
- 0.2-Percent AC\* Floodplain

The 1-percent and 0.2-percent annual chance floodplains shown here were developed with the results from this study and are not part of an official FEMA study. They should not be used for regulatory purposes. This is not an official FEMA flood insurance study and these data should not be used as such.  
 \*AC - Annual Chance

# Tripps Run - Barrett Road Mitigation Scenario 4



## Project Area Impacts

Structures Located in the 1-Percent AC\* Floodplain Boundary: 29  
 (17 structures no longer in the 1-Percent AC\* Floodplain Boundary)  
 (16 structures acquired by the County)

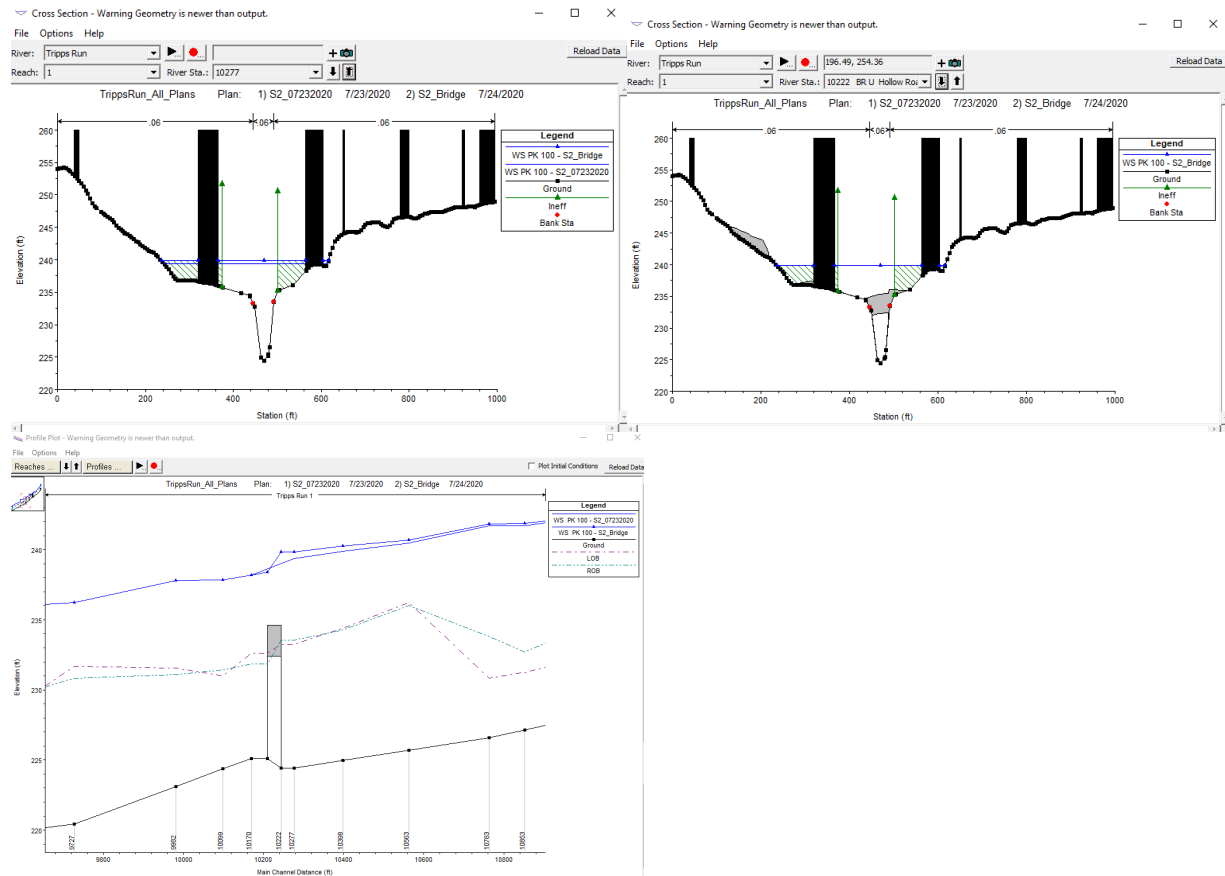
## Legend

- ▲ Elevation Certificates
- Bridges
- Model Cross-Sections
- Stream Centerline
- Proposed Conditions Limits of Grading
- Structures Acquired by the County
- Structures Impacted by the 1-Percent AC\* Floodplain
- Buildings
- Parcels
- 1-Percent AC\* Floodplain
- 0.2-Percent AC\* Floodplain

The 1-percent and 0.2-percent annual chance floodplains shown here were developed with the results from this study and are not part of an official FEMA study. They should not be used for regulatory purposes. This is not an official FEMA flood insurance study and these data should not be used as such.  
 \*AC - Annual Chance

## Holloway Road Bridge Supplemental Data

Based on the current elevations of the Holloway Road Bridge and the elevations of the surrounding terrain, raising the bridge by 7.1 vertical feet would be impractical. Look at the figures below which show the current elevation of the bridge as well as the surrounding terrain and water surface elevations for the 1-percent annual chance event. The left section shows XS 10277 (Just upstream of bridge) under both with and without bridge Scenarios. As can be seen, the BFE difference is only 0.4 feet between the two Scenarios (239.4' vs. 239.8'). In both cases, the adjacent properties on the left overbank are flooded. The middle cross-section shows the internal bridge cross-section ("with" bridge Scenario only). As can be seen, the bridge is significantly below the elevation of the BFE (low chord of 232.3'). The profile on the right side shows the elevations of the bridge and the BFEs in both Scenarios. The bridge would need to be raised at least 7.1 feet to get above the "without bridge" BFE.



Profiles and Cross-Sections of the Holloway Road Bridge



# Tripps Run - Barrett Road Mitigation Approximate High Water Marks

**6678 Barrett Road**  
 Water mark on cinder block wall  
 Approximate WSEL = 241.6'  
 10-Pct. AC WSEL (Model) = 241.4'

**6666 Barrett Road**  
 Water mark on back deck  
 Approximate WSEL = 239.3'  
 10-Pct. AC WSEL (Model) = 239.6'

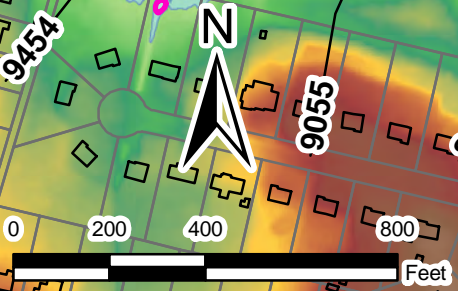
**6656 Barrett Road**  
 Water mark on house  
 Approximate WSEL = 238.5'  
 10-Pct. AC WSEL (Model) = 238.5'

**6652 Barrett Road**  
 Water mark on fence  
 Approximate WSEL = 237.9'  
 10-Pct. AC WSEL (Model) = 237.9'

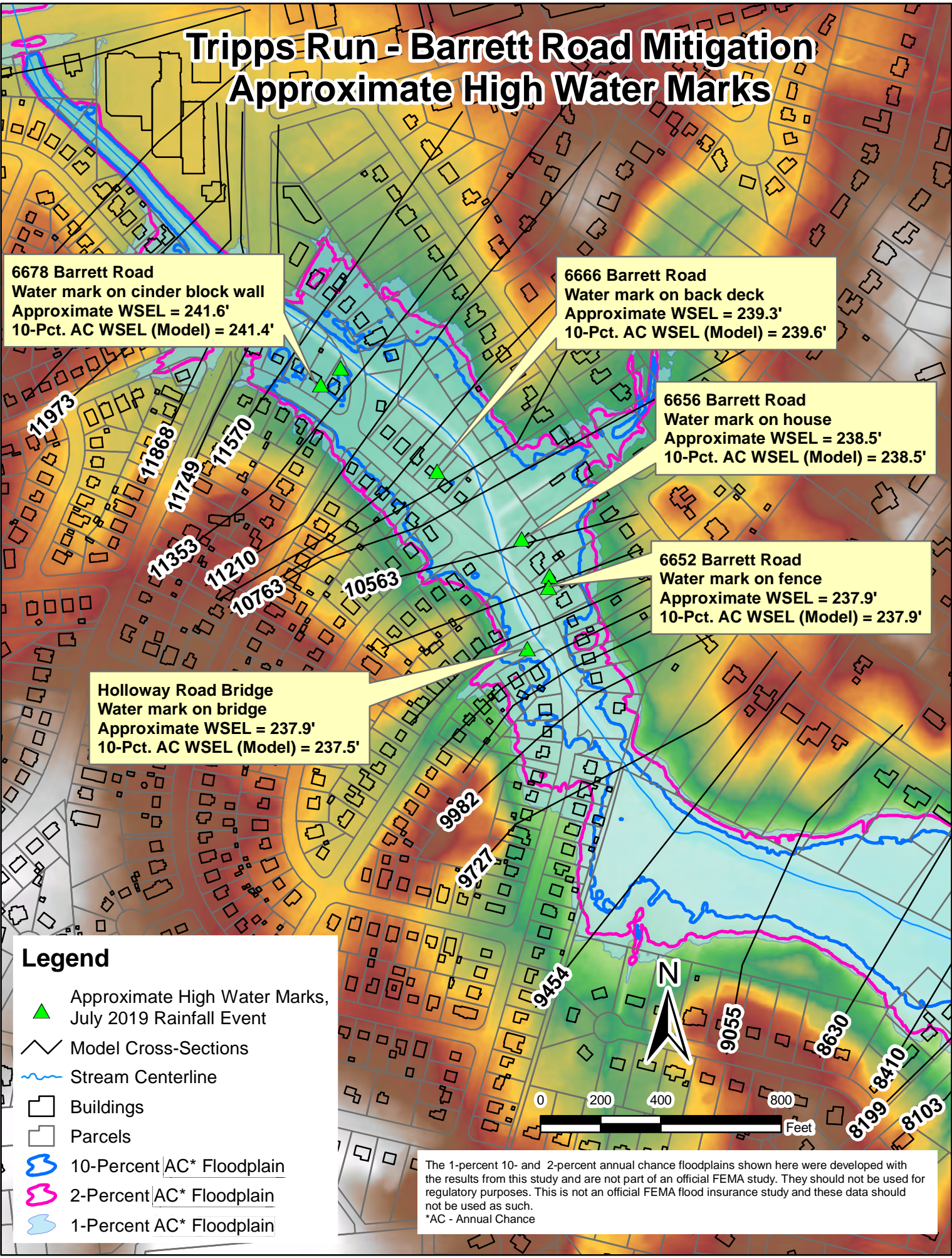
**Holloway Road Bridge**  
 Water mark on bridge  
 Approximate WSEL = 237.9'  
 10-Pct. AC WSEL (Model) = 237.5'

## Legend

- ▲ Approximate High Water Marks, July 2019 Rainfall Event
- Model Cross-Sections
- Stream Centerline
- Buildings
- Parcels
- 10-Percent AC\* Floodplain
- 2-Percent AC\* Floodplain
- 1-Percent AC\* Floodplain



The 1-percent 10- and 2-percent annual chance floodplains shown here were developed with the results from this study and are not part of an official FEMA study. They should not be used for regulatory purposes. This is not an official FEMA flood insurance study and these data should not be used as such.  
 \*AC - Annual Chance



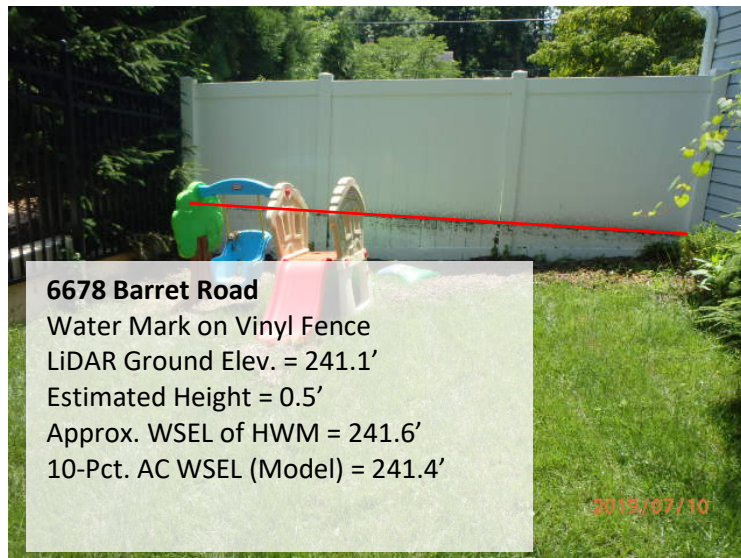
## Watermarks as Documented in Photographs on July 10 and July 16, 2019

The rainfall even occurred on July 8, 2019

### 6678 Barret Road



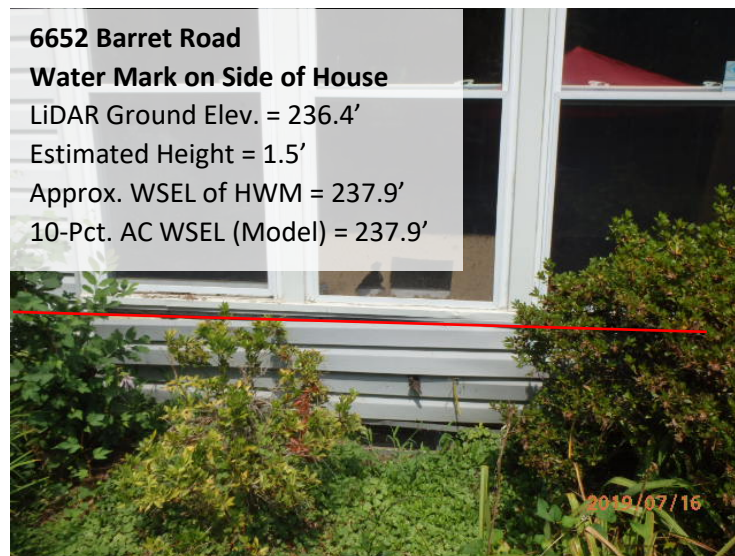
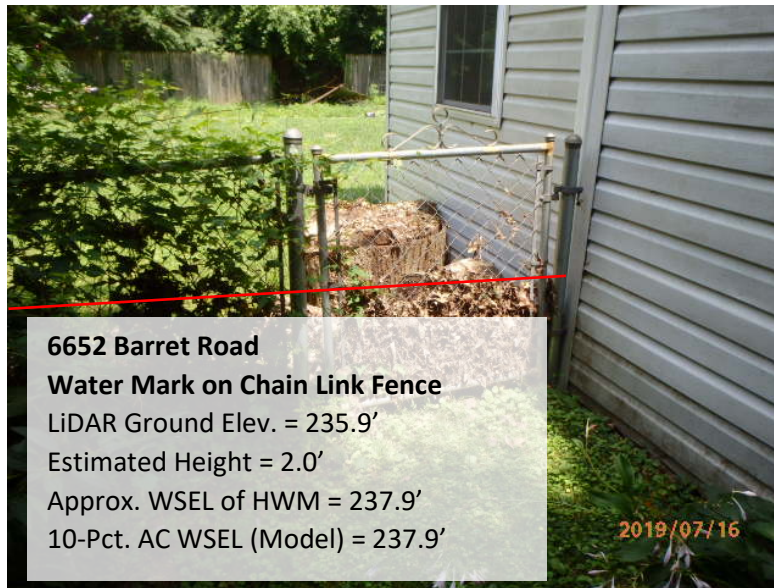
### Watermark on Vinyl Fence



This analysis is based on an approximate analysis of photographic evidence and LiDAR data. No elevations have been surveyed and the approximate HWM\* elevations are estimates only. These data are presented for comparison purposes only and are not accurate enough to use for the purposes of calibrating the hydraulic model.

\* High Water Mark

## 6652 Barret Road



This analysis is based on an approximate analysis of photographic evidence and LiDAR data. No elevations have been surveyed and the approximate HWM elevations are estimates only. These data are presented for comparison purposes only and are not accurate enough to use for the purposes of calibrating the hydraulic model.

**6656 Barrett Road**

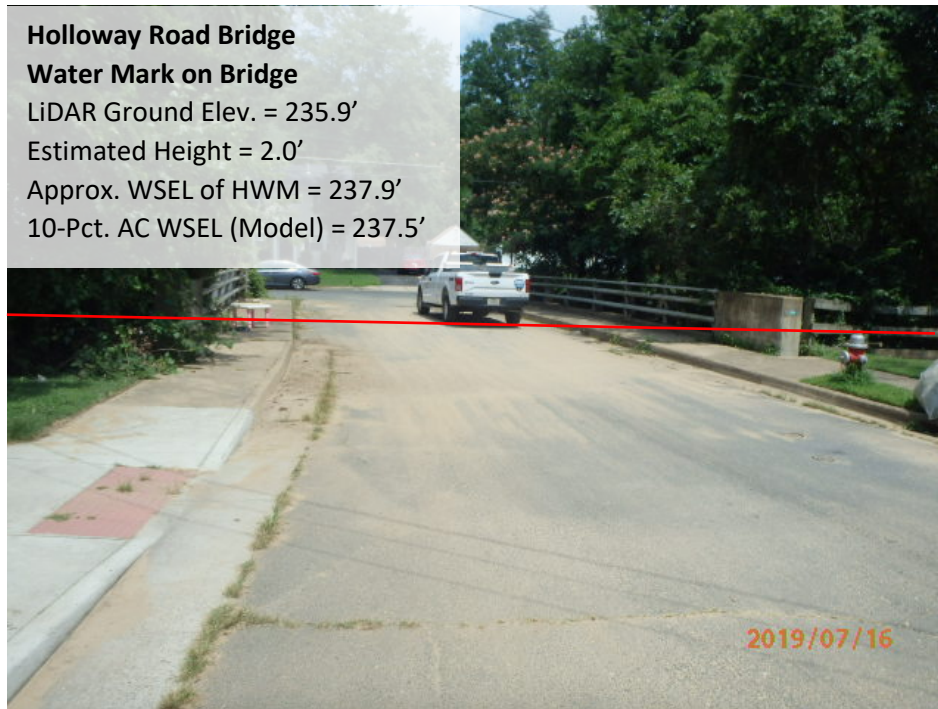


**6666 Barrett Road**



This analysis is based on an approximate analysis of photographic evidence and LiDAR data. No elevations have been surveyed and the approximate HWM elevations are estimates only. These data are presented for comparison purposes only and are not accurate enough to use for the purposes of calibrating the hydraulic model.

## Holloway Road Bridge



This analysis is based on an approximate analysis of photographic evidence and LiDAR data. No elevations have been surveyed and the approximate HWM elevations are estimates only. These data are presented for comparison purposes only and are not accurate enough to use for the purposes of calibrating the hydraulic model.

## **Elevation Certificates Provided by Fairfax County**

# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name John T. Morris and Paula M. Morris		For Insurance Company Use:
		Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 3131 Holloway Road		Company NAIC Number
City Falls Church State VA ZIP Code 22042		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Bel Air Subdivision Section 2 Lot 159, Map # 0504 20 0159		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>38°51'47.7"N</u> Long. <u>77°10'17.6"W</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>9</u>		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) <u>1338</u> sq ft		a) Square footage of attached garage <u>N/A</u> sq ft
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>6</u>		b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>N/A</u>
c) Total net area of flood openings in A8.b <u>480</u> sq in		c) Total net area of flood openings in A9.b <u>N/A</u> sq in
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Fairfax County, Unincorporated Areas 515525		B2. County Name Fairfax		B3. State VA	
B4. Map/Panel Number 51059C0285	B5. Suffix E	B6. FIRM Index Date Sep. 17, 2010	B7. FIRM Panel Effective/Revised Date September 17, 2010	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 238.9'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input checked="" type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized HV8463 Vertical Datum NAVD 88  
Conversion/Comments See attached comments.

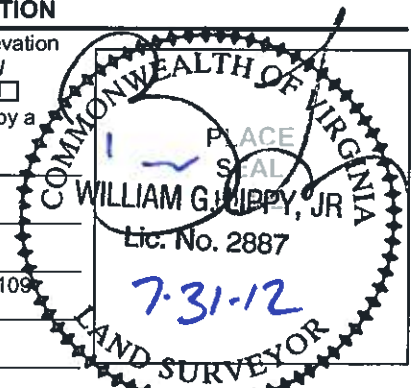
Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) <u>235.08</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor <u>238.29</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) <u>237.04</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG) <u>236.05</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG) <u>236.96</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support <u>235.67</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.   
 Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name William G. Lippy, Jr.	License Number 2887
Title Mr.	Company Name Rice Associates, Inc.
Address 10625 Gaskins Way	City Manassas State VA ZIP Code 20109
Signature	Date 7-31-12 Telephone (703) 968-3200



# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Susan Webster		For Insurance Company Use:
		Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6644 Barrett Road		Company NAIC Number
City Falls Church State VA ZIP Code 22042		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Bel Air Subdivision Section 2 Part Lot 181, Map # 0504 20 0181		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>38°51'48.0"N</u> Long. <u>77°10'15.5"W</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>9</u>		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) <u>1296</u> sq ft		a) Square footage of attached garage <u>N/A</u> sq ft
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>8</u>		b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>N/A</u>
c) Total net area of flood openings in A8.b <u>560</u> sq in		c) Total net area of flood openings in A9.b <u>N/A</u> sq in
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Fairfax County, Unincorporated Areas 515525		B2. County Name Fairfax		B3. State VA	
B4. Map/Panel Number 51059C0285	B5. Suffix E	B6. FIRM Index Date Sep 17, 2010	B7. FIRM Panel Effective/Revised Date September 17, 2010	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 238.9'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input checked="" type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized HV8463 Vertical Datum NAVD 88  
Conversion/Comments See attached comments.

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) <u>235.93</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor <u>238.06</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) <u>237.28</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG) <u>236.37</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG) <u>237.26</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by licensed land surveyor?  Yes  No

Certifier's Name <u>William G. Lippy, Jr.</u>	License Number <u>2887</u>
Title Mr.	Company Name <u>Rice Associates, Inc.</u>
Address <u>10625 Gaskins Way</u>	City <u>Manassas</u> State <u>VA</u> ZIP Code <u>20109</u>
Signature	Date <u>7/27/12</u> Telephone <u>(703) 968-3200</u>



# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Carlos D. Ferman		For Insurance Company Use:	
		Policy Number	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6646 Barrett Road		Company NAIC Number	
City Falls Church State VA ZIP Code 22042			
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Bel Air Subdivision Section 2 Lot 182, Map # 0504 20 0182			
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>			
A5. Latitude/Longitude: Lat. <u>38°51'48.6"N</u> Long. <u>77°10'15.7"W</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983	
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.			
A7. Building Diagram Number <u>9</u>			
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:	
a) Square footage of crawlspace or enclosure(s)	<u>1202</u> sq ft	a) Square footage of attached garage	<u>N/A</u> sq ft
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade	<u>12</u>	b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade	<u>N/A</u>
c) Total net area of flood openings in A8.b	<u>981</u> sq in	c) Total net area of flood openings in A9.b	<u>N/A</u> sq in
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Fairfax County, Unincorporated Areas 515525		B2. County Name Fairfax		B3. State VA	
B4. Map/Panel Number 51059C0285	B5. Suffix E	B6. FIRM Index Date Sep. 17, 2010	B7. FIRM Panel Effective/Revised Date September 17, 2010	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 239.8'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input checked="" type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized HV8463 Vertical Datum NAVD 88  
Conversion/Comments See attached comments.

Check the measurement used.

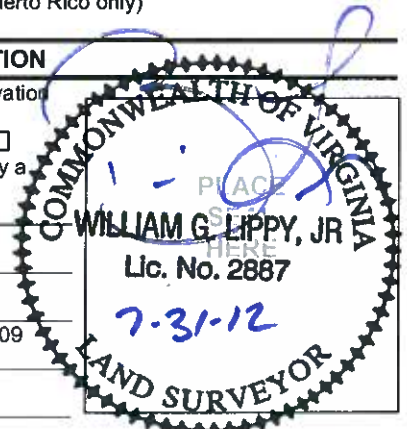
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>237.64</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	<u>240.19</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	<u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>238.57</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	<u>237.87</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	<u>238.52</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>237.70</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name	William G. Lippy, Jr.	License Number	2887
Title	Mr.	Company Name	Rice Associates, Inc.
Address	10625 Gaskins Way	City	Manassas
		State	VA
		ZIP Code	20109
Signature		Date	7-31-12
		Telephone	(703) 968-3200



# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Rafal Kowalczyk and Chandra Kowalczyk		For Insurance Company Use:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6656 Barrett Road		Policy Number
City Falls Church State VA ZIP Code 22042		Company NAIC Number
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Bel Air Subdivision Section 2 Lot 187, Map # 0504 20 0187		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>38°51'51.8"N</u> Long. <u>77°10'17.9"W</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>9</u>		
A8. For a building with a crawlspace or enclosure(s):		
a) Square footage of crawlspace or enclosure(s)	<u>1203</u> sq ft	A9. For a building with an attached garage:
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade	<u>3</u>	a) Square footage of attached garage
c) Total net area of flood openings in A8.b	<u>210</u> sq in	b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		c) Total net area of flood openings in A9.b
		d) Engineered flood openings? <input type="checkbox"/> Yes <input type="checkbox"/> No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Fairfax County, Unincorporated Areas 515525		B2. County Name Fairfax		B3. State VA	
B4. Map/Panel Number 51059C0285	B5. Suffix E	B6. FIRM Index Date Sep 17, 2010	B7. FIRM Panel Effective/Revised Date September 17, 2010	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 241.0'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input checked="" type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized HV8463 Vertical Datum NAVD 88  
Conversion/Comments See attached comments.

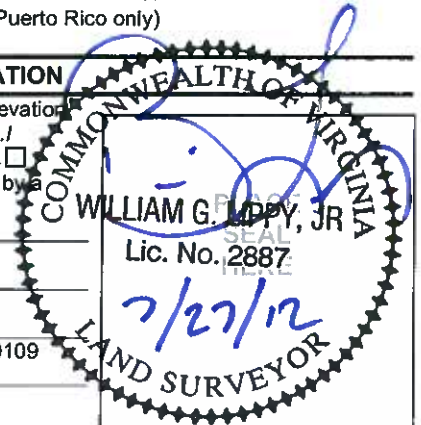
Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>235.52</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	<u>238.03</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	<u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>237.54</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	<u>237.04</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	<u>237.58</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.   
 Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name	William G. Lippy, Jr.	License Number	2887
Title	Mr.	Company Name	Rice Associates, Inc.
Address	10625 Gaskins Way	City	Manassas
		State	VA
		ZIP Code	20109
Signature		Date	7/27/12
		Telephone	(703) 968-3200



# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name Donald Mason Strickland and Carol B. Strickland		For Insurance Company Use: Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 6661 Barrett Road City Falls Church State VA ZIP Code 22042		Company NAIC Number
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Bel Air Subdivision Section 2 Lot 244, Map # 0504 20 0244		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>38°51'52.2"N</u> Long. <u>77°10'21.7"W</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>9</u>		
A8. For a building with a crawlspace or enclosure(s):		
a) Square footage of crawlspace or enclosure(s)	<u>822</u> sq ft	A9. For a building with an attached garage:
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade	<u>7</u>	a) Square footage of attached garage
c) Total net area of flood openings in A8.b	<u>568</u> sq in	b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		c) Total net area of flood openings in A9.b
		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Fairfax County, Unincorporated Areas 515525		B2. County Name Fairfax		B3. State VA	
B4. Map/Panel Number 51059C0285	B5. Suffix E	B6. FIRM Index Date Sep. 17, 2010	B7. FIRM Panel Effective/Revised Date September 17, 2010	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 241.0'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input checked="" type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

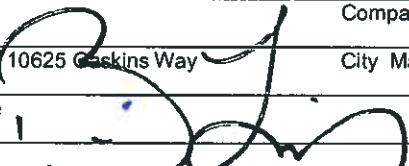
C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized HV8463 Vertical Datum NAVD 88  
Conversion/Comments See attached comments.

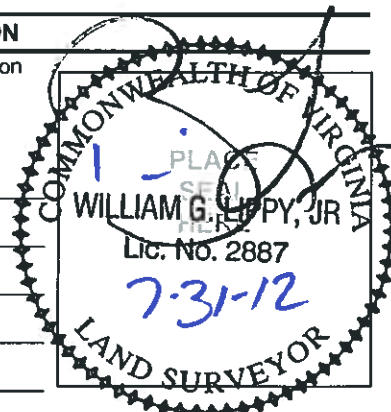
Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	<u>237.36</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	<u>240.16</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	<u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	<u>239.11</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	<u>239.72</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	<u>238.18</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	<u>239.00</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	<u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.   
 Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name William G. Lippy, Jr.		License Number 2887	
Title Mr.	Company Name Rice Associates, Inc.		
Address 10625 Gaskins Way	City Manassas	State VA	ZIP Code 20109
Signature 	Date 7-31-12	Telephone (703) 968-3200	



# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name <u>David A. Biss and Cynthia A. Janetzko</u>		For Insurance Company Use:
		Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. <u>6668 Barrett Road</u>		Company NAIC Number
City Falls Church State VA ZIP Code 22042		
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <u>Bel Air Subdivision Section 2 Lot 192, Map # 0504 20 0192</u>		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>38°51'54.6"N</u> Long. <u>77°10'22.5"W</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>9</u>		
A8. For a building with a crawspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawspace or enclosure(s) <u>1018</u> sq ft		a) Square footage of attached garage <u>N/A</u> sq ft
b) No. of permanent flood openings in the crawspace or enclosure(s) within 1.0 foot above adjacent grade <u>6</u>		b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>N/A</u>
c) Total net area of flood openings in A8.b <u>345</u> sq in		c) Total net area of flood openings in A9.b <u>N/A</u> sq in
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number <u>Fairfax County, Unincorporated Areas 515525</u>		B2. County Name <u>Fairfax</u>		B3. State <u>VA</u>	
B4. Map/Panel Number <u>51059C0285</u>	B5. Suffix <u>E</u>	B6. FIRM Index Date <u>Sep. 17, 2010</u>	B7. FIRM Panel Effective/Revised Date <u>September 17, 2010</u>	B8. Flood Zone(s) <u>AE</u>	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) <u>241.4'</u>
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input checked="" type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input checked="" type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on:  Construction Drawings\*  Building Under Construction\*  Finished Construction  
\*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized HV8463 Vertical Datum NAVD 88  
Conversion/Comments See attached comments.

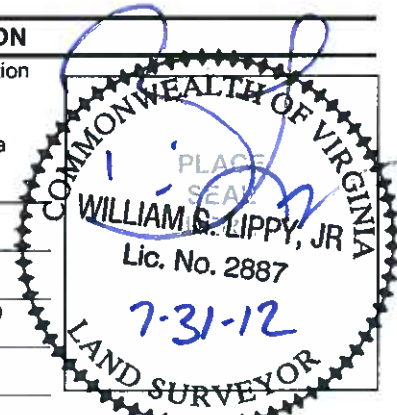
Check the measurement used.

a) Top of bottom floor (including basement, crawspace, or enclosure floor) <u>238.28</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor <u>240.83</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) <u>239.13</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG) <u>238.73</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG) <u>239.81</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support <u>239.81</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.   
 Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor?  Yes  No

Certifier's Name <u>William G. Lippy, Jr.</u>	License Number <u>2887</u>
Title Mr.	Company Name <u>Rice Associates, Inc.</u>
Address <u>10625 Gaskins Way</u>	City <u>Manassas</u> State <u>VA</u> ZIP Code <u>20109</u>
Signature	Date <u>7-31-12</u> Telephone (703) 968-3200



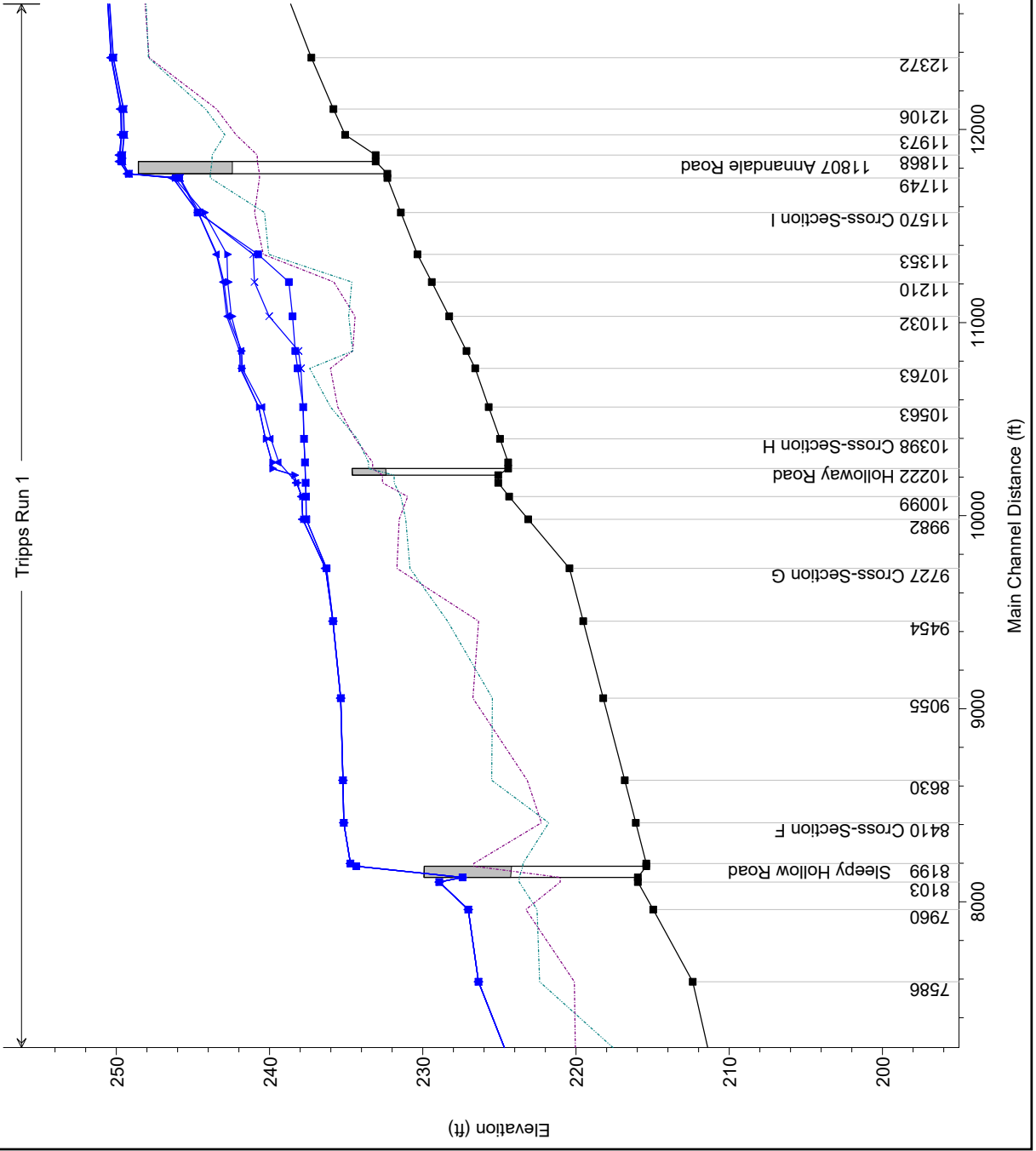
**Barrett Road Project Area**  
**Water Surface Elevation Comparisons at Select Cross-Sections**

Cross-Section		1-Percent Annual Chance WSEL (feet NAVD 88)				
Letter	HEC-RAS Station	Existing Conditions	Scenario 1	Scenario 2	Scenario 3	Scenario 4
	12106	249.7	249.7	249.7	249.5	249.6
	11973	249.7	249.7	249.6	249.5	249.5
	11868	249.8	249.8	249.8	249.6	249.6
<b>Annandale Road</b>						
	11749	246.3	246.3	246.2	245.9	245.9
I	11570	244.7	244.7	244.3	244.6	244.7
	11570	244.7	244.7	244.3	244.6	244.7
	11353	243.5	243.4	242.8	241.1	240.8
	11210	243.1	243.0	242.7	241.0	238.7
	11032	242.8	242.7	242.5	240.0	238.5
	10853	242.0	241.8	241.9	238.1	238.3
	10763	241.9	241.8	241.9	238.0	238.2
	10563	240.7	240.5	240.7	237.8	237.8
H	10398	240.3	239.9	240.3	237.8	237.8
	10277	239.8	239.4	239.8	237.7	237.7
<b>Holloway Road</b>						
	10170	238.2	238.2	238.2	237.7	237.7
	10099	237.9	237.9	237.9	237.6	237.6
	9982	237.8	237.8	237.8	237.6	237.6
G	9727	236.4	236.4	236.4	236.3	236.3
	9454	235.9	235.9	235.9	235.9	235.9
	9055	235.4	235.4	235.4	235.4	235.4
	8630	235.2	235.2	235.2	235.2	235.2
F	8410	235.2	235.2	235.2	235.2	235.2
	8199	234.7	234.7	234.7	234.7	234.7
<b>Sleepy Hollow Road</b>						
	8103	228.9	228.9	228.9	228.9	228.9
	7690	227.0	227.0	227.0	227.0	227.0

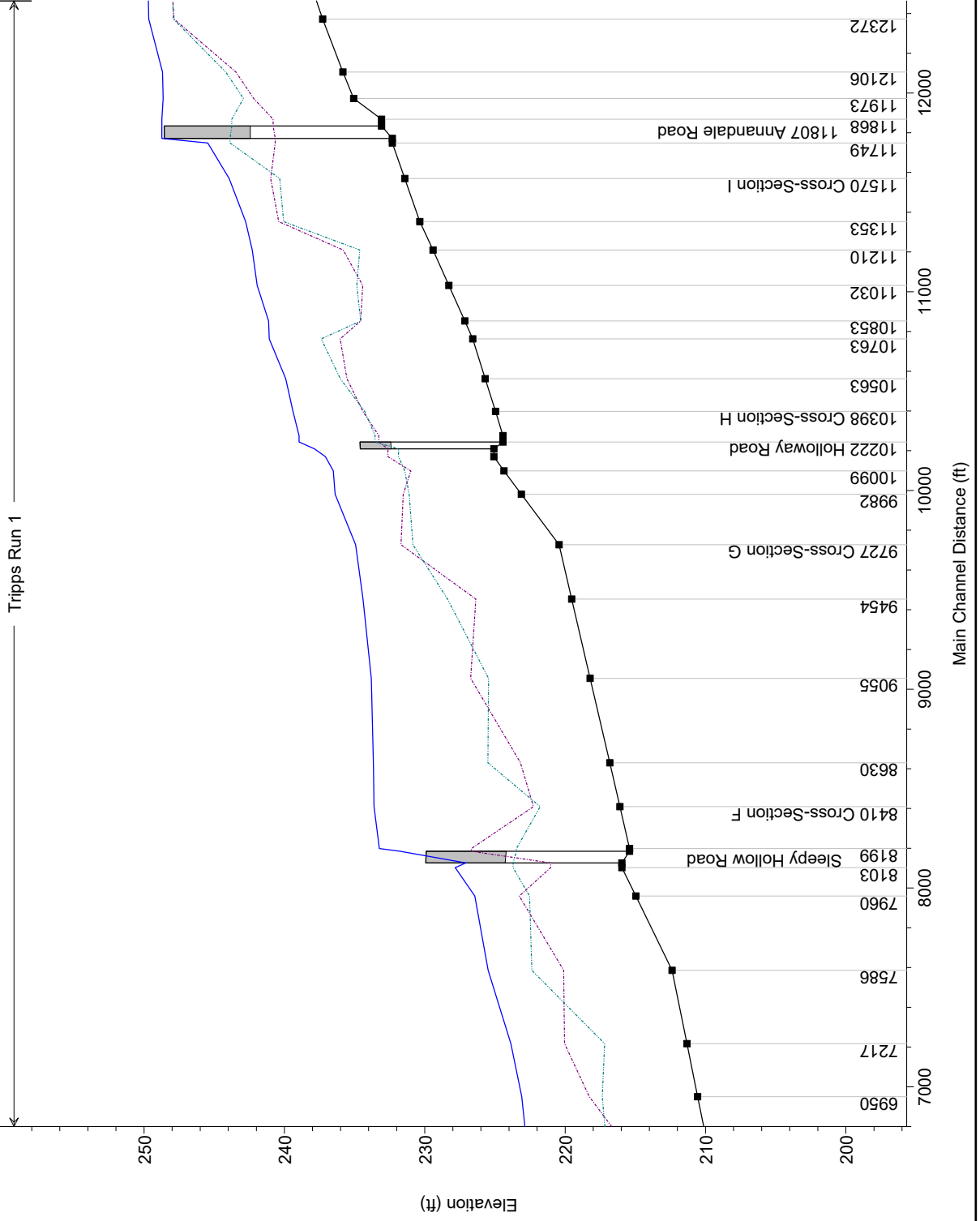
TrippsRun\_All\_Plans Plan: 1) Existing\_Conditiona 8/5/2020 2) S1\_07232020 8/5/2020 3) Scenario2\_Br 8/6/2020 4) S3\_07232020 8/5/2020 5) S4\_07232020 8/5/2020

Tripps Run 1

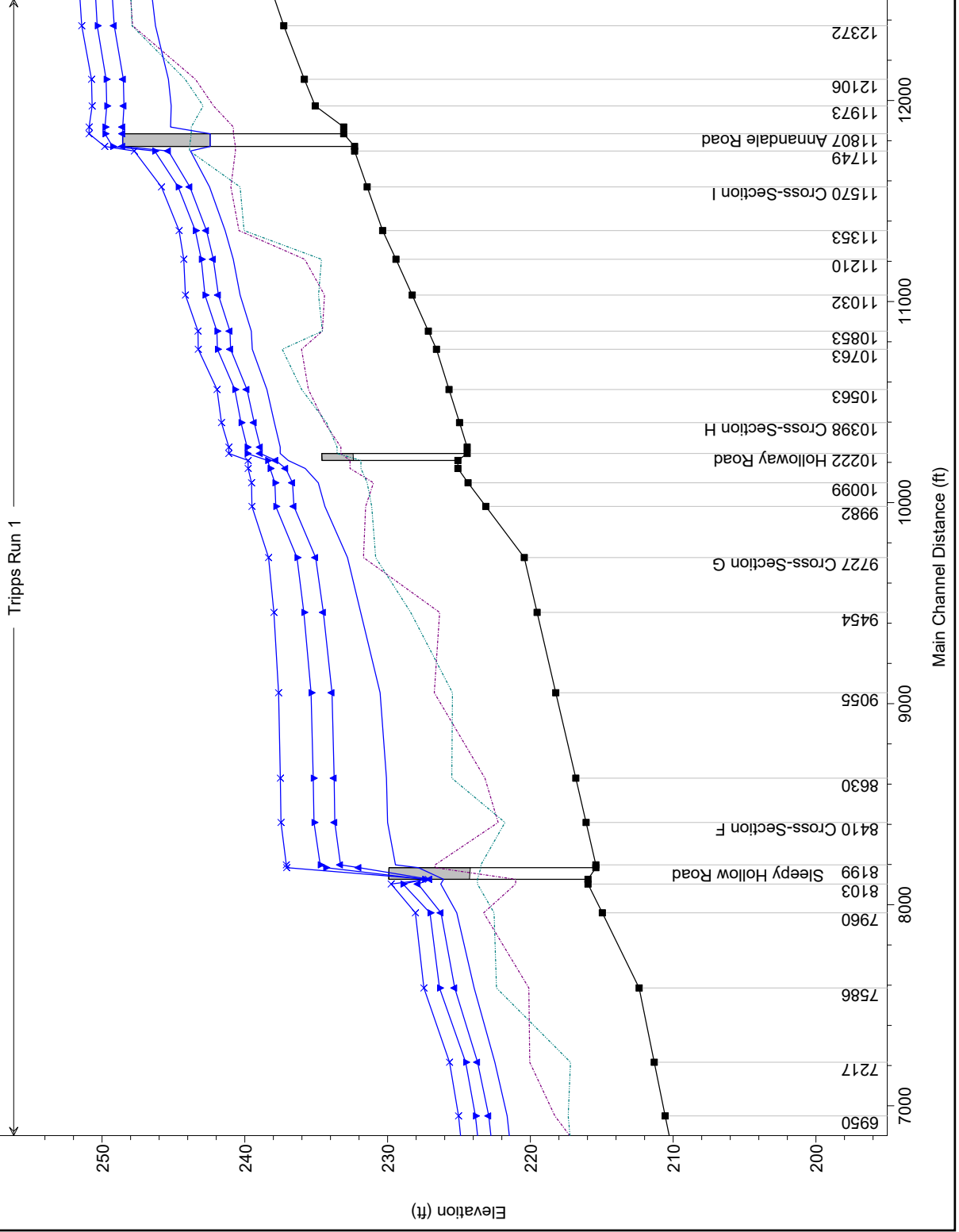
Legend	
WS PK 100 - Existing_Conditiona	
WS PK 100 - S1_07232020	
WS PK 100 - Scenario2_Br	
WS PK 100 - S3_07232020	
WS PK 100 - S4_07232020	
Ground	
LOB	
ROB	



TripplsRun\_All\_Plans Plan: Existing\_Conditions 9/30/2020



TripplRun\_All\_Plans Plan: Existing\_Conditions 8/5/2020



Legend	
WS PK 500	Blue line with 'x' markers
WS PK 100	Blue line with right-pointing triangle markers
WS PK 50	Blue line with left-pointing triangle markers
WS PK 10	Blue line with diamond markers
Ground	Solid black line with square markers
LOB	Dotted red line
ROB	Dotted green line



HEC-RAS Plan: Existing\_Conditiona Locations: User Defined

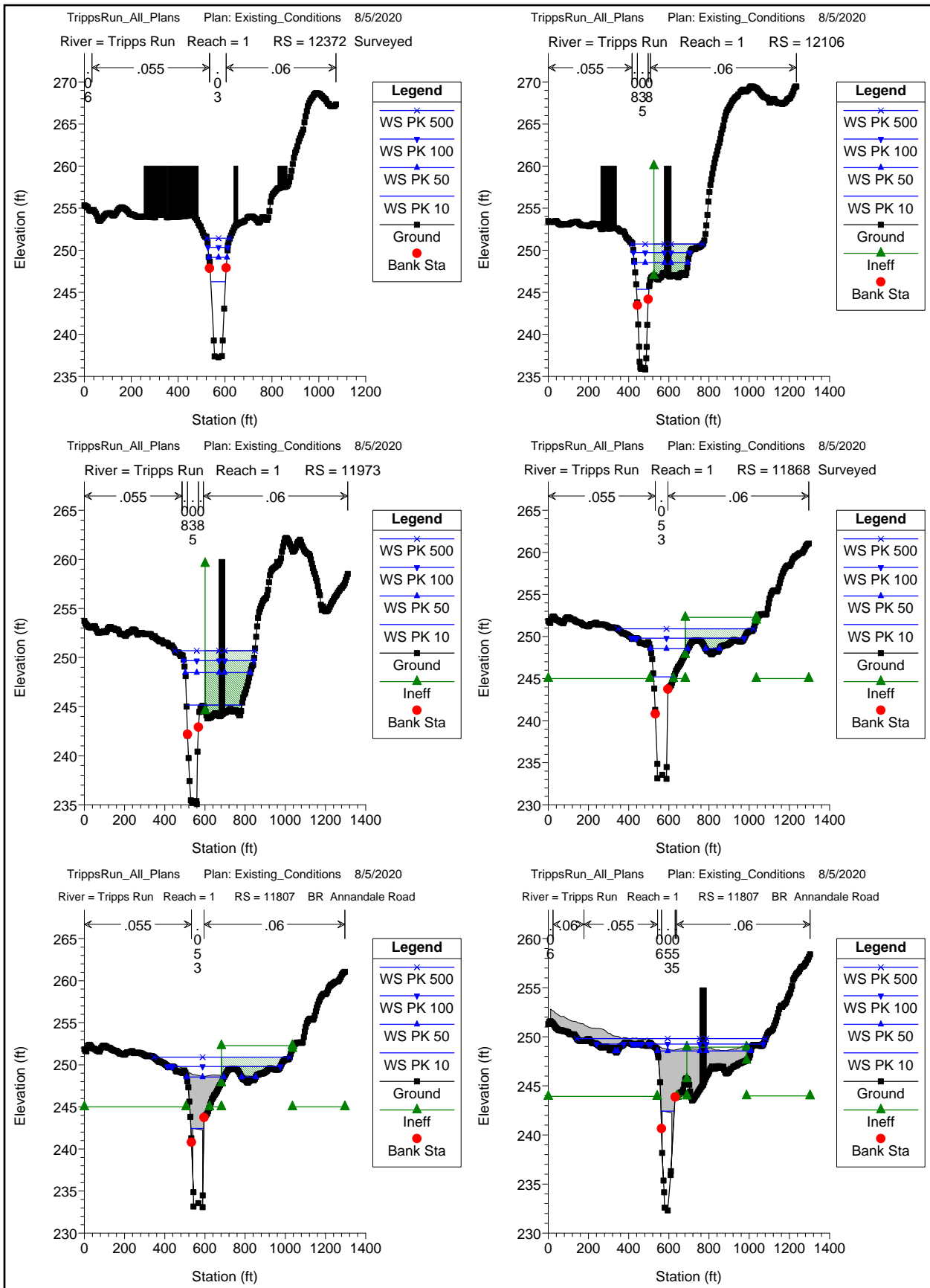
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	12106	PK 10	3301.00	235.83	245.35	242.53	246.37	0.002758	8.10	412.98	62.31	0.52
Tripps Run	1	12106	PK 50	4694.00	235.83	248.51	244.00	249.45	0.001635	7.89	672.35	232.87	0.43
Tripps Run	1	12106	PK 100	5663.00	235.83	249.72	244.85	250.76	0.001604	8.39	792.05	247.00	0.43
Tripps Run	1	12106	PK 500	7200.00	235.83	250.74	246.10	252.11	0.001906	9.66	898.74	316.79	0.47
Tripps Run	1	11973	PK 10	3301.00	235.07	245.16	241.72	246.00	0.002064	7.38	467.33	247.09	0.46
Tripps Run	1	11973	PK 50	4694.00	235.07	248.46	243.14	249.21	0.001213	7.10	783.23	295.48	0.37
Tripps Run	1	11973	PK 100	5663.00	235.07	249.68	243.98	250.52	0.001218	7.61	907.62	319.78	0.38
Tripps Run	1	11973	PK 500	7200.00	235.07	250.70	245.50	251.81	0.001472	8.81	1032.46	369.76	0.42
Tripps Run	1	11868	PK 10	3301.00	233.08	245.21	238.69	245.56	0.001577	4.90	707.53	101.83	0.27
Tripps Run	1	11868	PK 50	4694.00	233.08	248.55	240.04	248.88	0.001057	4.82	1177.30	256.84	0.23
Tripps Run	1	11868	PK 100	5663.00	233.08	249.80	240.87	250.14	0.001042	5.07	1433.44	552.33	0.23
Tripps Run	1	11868	PK 500	7200.00	233.08	250.91	242.04	251.31	0.001156	5.60	1769.51	677.09	0.24
Tripps Run	1	11807 Annandale Road	Bridge										
Tripps Run	1	11749	PK 10	3301.00	232.31	243.81	239.67	244.43	0.003620	6.34	525.90	88.19	0.40
Tripps Run	1	11749	PK 50	4694.00	232.31	245.35	241.07	246.17	0.003833	7.33	689.97	177.46	0.43
Tripps Run	1	11749	PK 100	5663.00	232.31	246.32	241.92	247.21	0.003790	7.79	815.92	220.99	0.43
Tripps Run	1	11749	PK 500	7200.00	232.31	247.75	243.13	248.71	0.003557	8.24	1014.75	412.53	0.43
Tripps Run	1	11570	PK 10	3301.00	231.43	242.47	240.03	243.53	0.005150	8.39	426.51	156.45	0.55
Tripps Run	1	11570	PK 50	4694.00	231.43	243.85	241.85	245.20	0.005371	9.62	547.46	378.33	0.58
Tripps Run	1	11570	PK 100	5663.00	231.43	244.67	242.71	246.21	0.005511	10.36	619.68	398.48	0.59
Tripps Run	1	11570	PK 500	7200.00	231.43	245.84	243.84	247.66	0.005700	11.38	722.10	480.42	0.61
Tripps Run	1	11353	PK 10	3301.00	230.35	241.38	238.09	242.26	0.006189	7.56	456.38	254.54	0.49
Tripps Run	1	11353	PK 50	4694.00	230.35	242.68	239.72	243.84	0.006762	8.81	577.04	396.59	0.53
Tripps Run	1	11353	PK 100	5663.00	230.35	243.47	240.75	244.80	0.007037	9.52	649.87	482.30	0.54
Tripps Run	1	11353	PK 500	7200.00	230.35	244.61	242.29	246.19	0.007333	10.48	754.75	575.60	0.57
Tripps Run	1	11210	PK 10	3301.00	229.41	240.81	237.44	241.50	0.003954	7.21	582.63	485.68	0.41
Tripps Run	1	11210	PK 50	4694.00	229.41	242.21	239.98	243.00	0.004031	7.97	757.14	576.98	0.43
Tripps Run	1	11210	PK 100	5663.00	229.41	243.05	240.65	243.91	0.004059	8.41	863.06	614.89	0.43
Tripps Run	1	11210	PK 500	7200.00	229.41	244.28	241.50	245.24	0.004062	8.99	1016.68	678.84	0.44
Tripps Run	1	11032	PK 10	3301.00	228.28	240.33	236.64	240.83	0.002962	6.47	745.73	377.50	0.36
Tripps Run	1	11032	PK 50	4694.00	228.28	241.85	239.36	242.32	0.002595	6.66	1072.53	449.75	0.35
Tripps Run	1	11032	PK 100	5663.00	228.28	242.79	239.93	243.24	0.002331	6.65	1295.40	473.14	0.33
Tripps Run	1	11032	PK 500	7200.00	228.28	244.16	240.76	244.57	0.001973	6.56	1644.02	521.30	0.31
Tripps Run	1	10853	PK 10	3301.00	227.15	239.55	236.03	240.21	0.003767	7.07	605.44	344.45	0.40
Tripps Run	1	10853	PK 50	4694.00	227.15	241.04	238.24	241.75	0.003590	7.60	813.56	432.00	0.40
Tripps Run	1	10853	PK 100	5663.00	227.15	241.96	239.41	242.69	0.003482	7.89	941.19	462.61	0.40

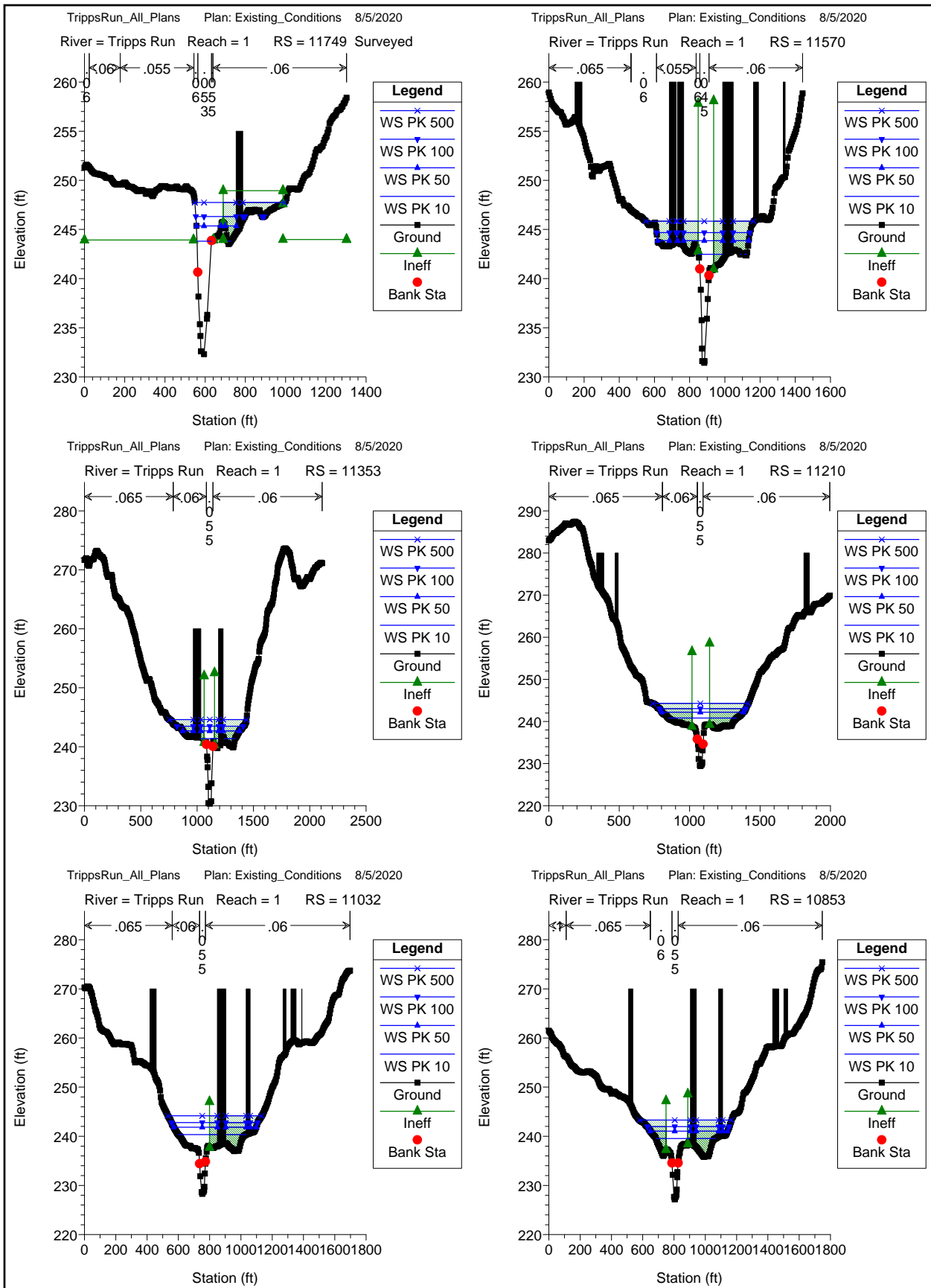
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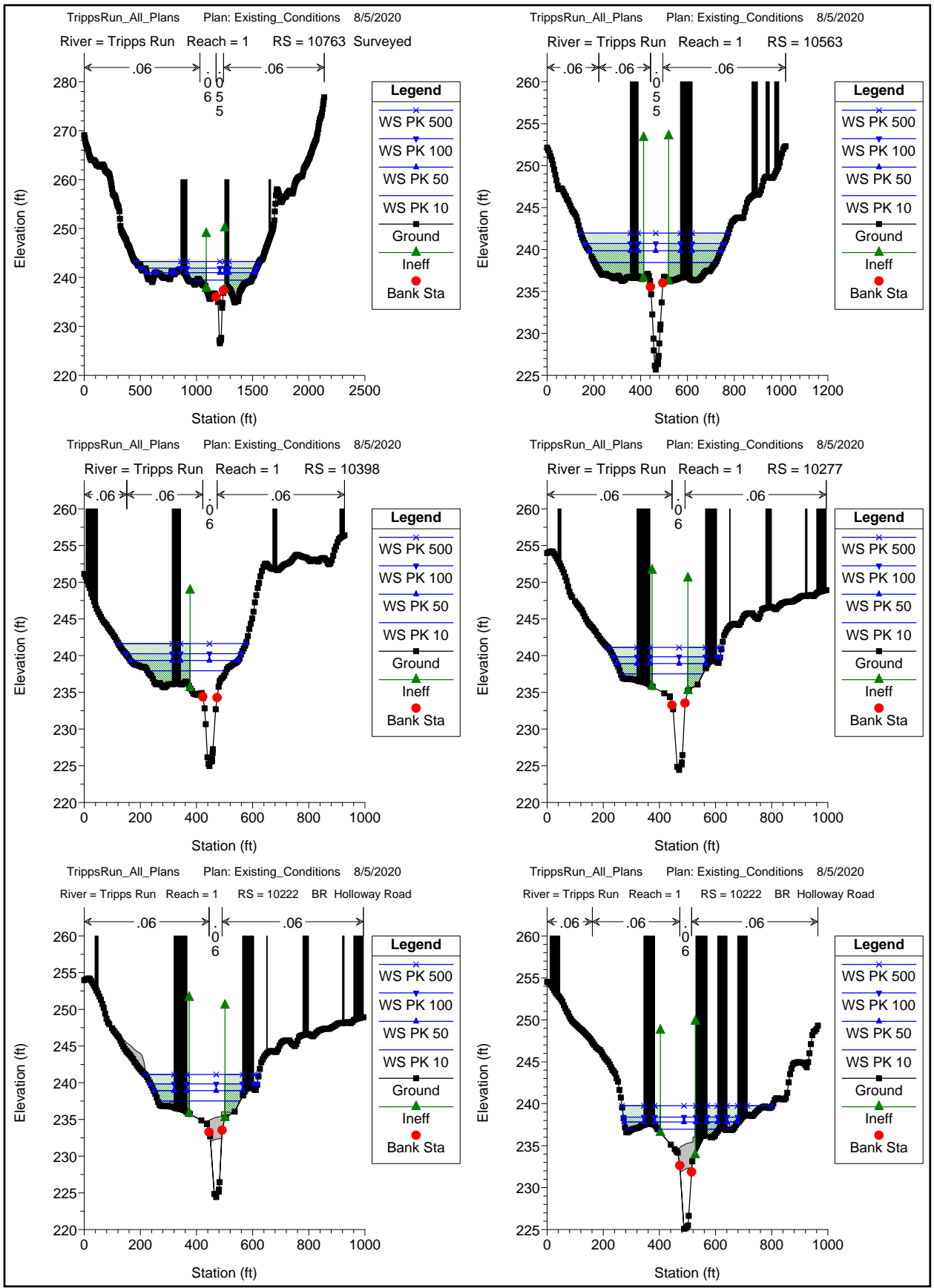
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	10853	PK 500	7200.00	227.15	243.29	240.23	244.07	0.003337	8.28	1126.05	524.55	0.40
Tripps Run	1	10763	PK 10	3301.00	226.58	239.47	236.50	239.82	0.002843	5.20	772.68	518.19	0.34
Tripps Run	1	10763	PK 50	4694.00	226.58	241.00	237.94	241.38	0.002508	5.53	1023.03	797.06	0.33
Tripps Run	1	10763	PK 100	5663.00	226.58	241.93	238.43	242.34	0.002385	5.76	1175.43	935.28	0.32
Tripps Run	1	10763	PK 500	7200.00	226.58	243.27	239.08	243.73	0.002256	6.11	1395.84	1010.02	0.32
Tripps Run	1	10563	PK 10	3301.00	225.70	238.45	234.47	239.11	0.003919	6.74	554.82	435.17	0.40
Tripps Run	1	10563	PK 50	4694.00	225.70	239.85	236.09	240.68	0.004195	7.71	704.60	479.66	0.43
Tripps Run	1	10563	PK 100	5663.00	225.70	240.71	237.70	241.64	0.004316	8.26	796.07	511.74	0.44
Tripps Run	1	10563	PK 500	7200.00	225.70	241.95	238.79	243.03	0.004426	8.99	928.91	547.49	0.45
Tripps Run	1	10398	PK 10	3301.00	224.96	237.93	233.98	238.45	0.003704	6.13	634.34	250.86	0.36
Tripps Run	1	10398	PK 50	4694.00	224.96	239.34	236.11	239.96	0.003830	6.88	842.27	354.80	0.38
Tripps Run	1	10398	PK 100	5663.00	224.96	240.27	236.83	240.91	0.003621	7.08	1007.44	381.87	0.37
Tripps Run	1	10398	PK 500	7200.00	224.96	241.64	237.88	242.28	0.003282	7.28	1268.11	424.27	0.36
Tripps Run	1	10277	PK 10	3301.00	224.43	237.52	233.18	238.01	0.003302	6.07	662.06	247.59	0.34
Tripps Run	1	10277	PK 50	4694.00	224.43	238.92	235.47	239.51	0.003457	6.79	841.07	270.30	0.36
Tripps Run	1	10277	PK 100	5663.00	224.43	239.84	236.60	240.48	0.003435	7.14	958.56	294.33	0.36
Tripps Run	1	10277	PK 500	7200.00	224.43	241.13	237.47	241.85	0.003444	7.65	1122.72	319.40	0.37
Tripps Run	1	10222	Holloway Road	Bridge									
Tripps Run	1	10170	PK 10	3301.00	225.08	235.77	233.45	236.91	0.008522	8.85	428.02	106.11	0.54
Tripps Run	1	10170	PK 50	4694.00	225.08	237.14	235.56	238.43	0.008437	9.76	590.47	250.86	0.56
Tripps Run	1	10170	PK 100	5663.00	225.08	238.23	236.76	239.43	0.007174	9.67	726.37	294.15	0.52
Tripps Run	1	10170	PK 500	7200.00	225.08	239.77	237.65	240.92	0.005993	9.66	917.16	389.14	0.49
Tripps Run	1	10099	PK 10	3301.00	224.36	234.86	232.58	236.25	0.007808	9.63	394.52	175.76	0.59
Tripps Run	1	10099	PK 50	4694.00	224.36	236.66	235.41	237.89	0.006035	9.65	647.36	309.35	0.54
Tripps Run	1	10099	PK 100	5663.00	224.36	237.89	236.35	238.94	0.004766	9.26	829.93	369.74	0.49
Tripps Run	1	10099	PK 500	7200.00	224.36	239.53	237.19	240.47	0.003823	9.07	1072.20	452.67	0.44
Tripps Run	1	9982	PK 10	3301.00	223.12	234.39	231.35	235.36	0.005431	8.15	496.77	180.22	0.49
Tripps Run	1	9982	PK 50	4694.00	223.12	236.56	233.49	237.21	0.003238	7.31	888.40	356.48	0.39
Tripps Run	1	9982	PK 100	5663.00	223.12	237.84	235.19	238.39	0.002562	6.99	1119.57	404.73	0.36
Tripps Run	1	9982	PK 500	7200.00	223.12	239.50	235.97	240.02	0.002083	6.89	1421.12	438.63	0.33
Tripps Run	1	9727	PK 10	3777.00	220.43	232.81	228.93	233.92	0.005839	8.47	461.62	88.21	0.49
Tripps Run	1	9727	PK 50	5410.00	220.43	235.04	230.83	236.16	0.004807	8.88	733.54	184.82	0.46
Tripps Run	1	9727	PK 100	6740.00	220.43	236.35	232.25	237.48	0.004449	9.19	935.52	323.91	0.45
Tripps Run	1	9727	PK 500	8400.00	220.43	238.34	234.77	239.30	0.003394	8.84	1292.00	425.44	0.41
Tripps Run	1	9454	PK 10	3777.00	219.53	231.88	228.06	232.59	0.003452	7.14	751.41	382.18	0.40

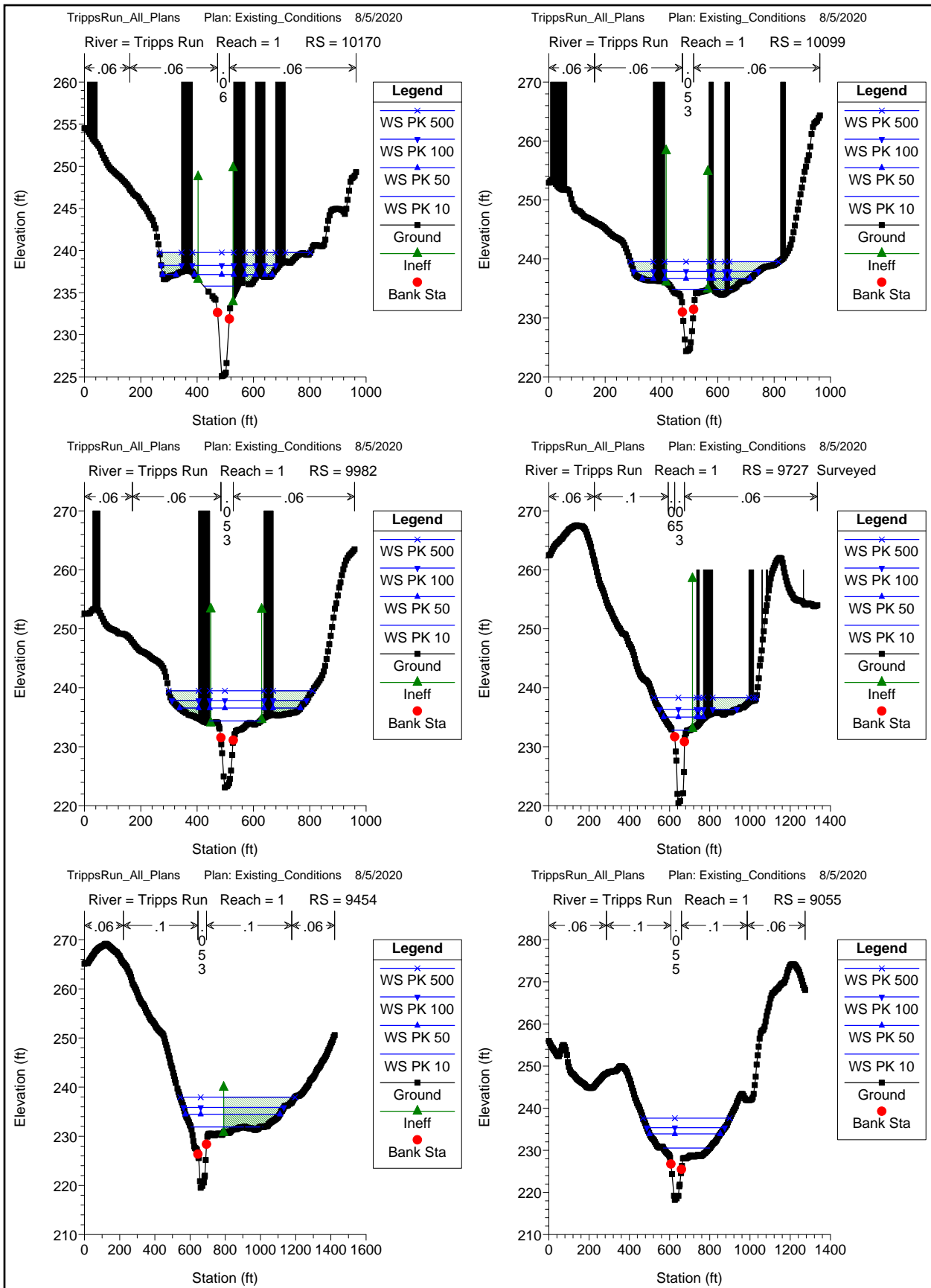
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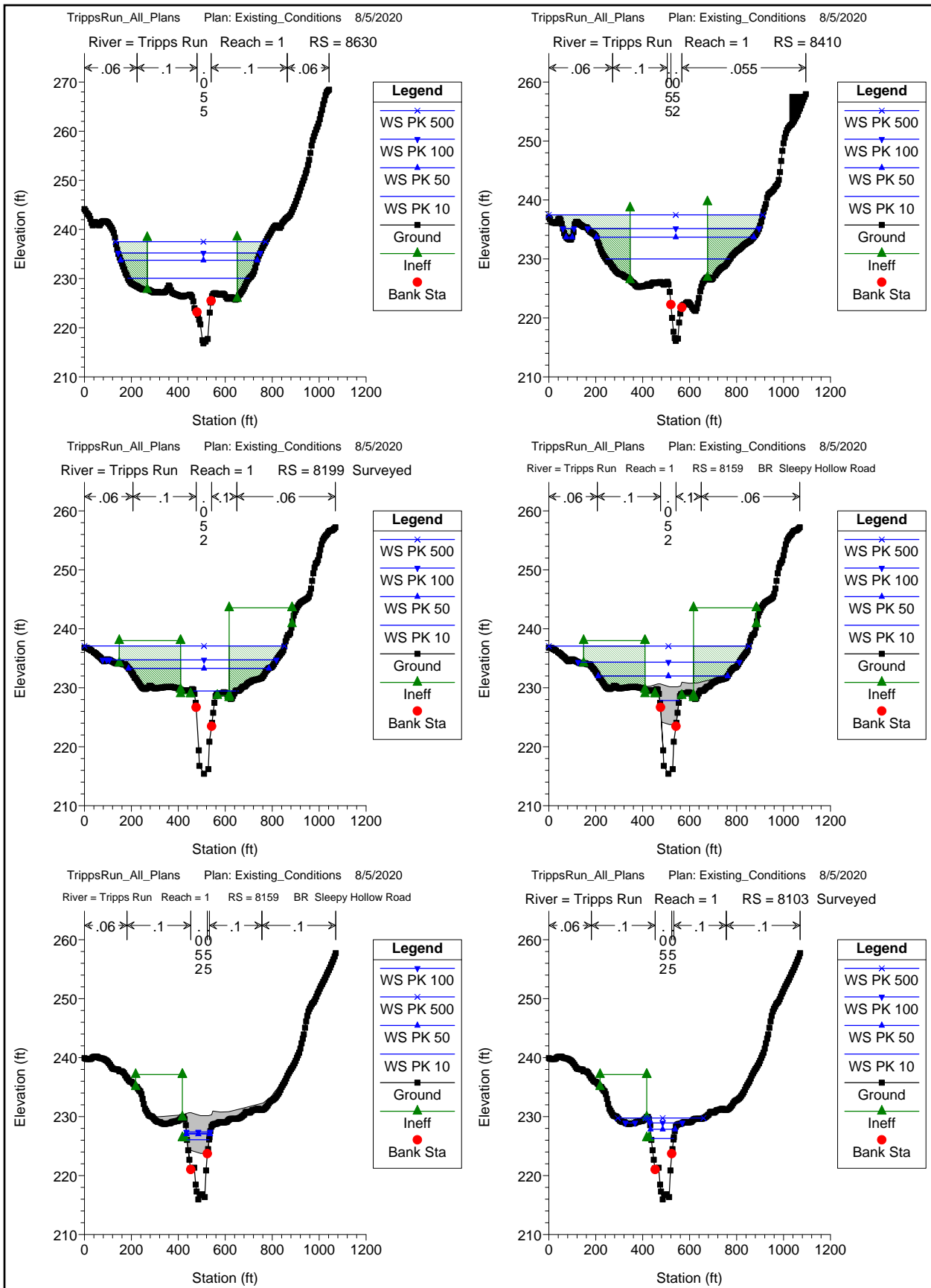
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	9454	PK 50	5410.00	219.53	234.50	229.68	235.09	0.002400	6.97	1279.34	537.65	0.35
Tripps Run	1	9454	PK 100	6740.00	219.53	235.86	231.39	236.47	0.002261	7.26	1584.02	570.06	0.35
Tripps Run	1	9454	PK 500	8400.00	219.53	237.96	232.55	238.50	0.001804	7.13	2082.06	652.81	0.32
Tripps Run	1	9055	PK 10	3777.00	218.22	230.52		231.18	0.003493	6.86	795.99	230.23	0.39
Tripps Run	1	9055	PK 50	5410.00	218.22	233.90		234.24	0.001541	5.58	1818.92	351.76	0.27
Tripps Run	1	9055	PK 100	6740.00	218.22	235.36		235.68	0.001356	5.63	2358.99	387.31	0.26
Tripps Run	1	9055	PK 500	8400.00	218.22	237.64		237.89	0.000958	5.22	3296.86	431.48	0.23
Tripps Run	1	8630	PK 10	3777.00	216.82	230.08	224.78	230.27	0.001112	4.13	1712.79	517.40	0.23
Tripps Run	1	8630	PK 50	5410.00	216.82	233.74	226.32	233.84	0.000462	3.26	3116.00	582.51	0.15
Tripps Run	1	8630	PK 100	6740.00	216.82	235.21	228.19	235.31	0.000442	3.41	3677.02	605.23	0.15
Tripps Run	1	8630	PK 500	8400.00	216.82	237.52	228.92	237.61	0.000359	3.37	4559.99	639.39	0.14
Tripps Run	1	8410	PK 10	3777.00	216.10	230.00	224.21	230.09	0.000448	2.99	2023.72	527.99	0.16
Tripps Run	1	8410	PK 50	5410.00	216.10	233.70	225.11	233.76	0.000231	2.58	3242.10	696.70	0.12
Tripps Run	1	8410	PK 100	6740.00	216.10	235.16	225.87	235.23	0.000234	2.77	3724.26	777.41	0.12
Tripps Run	1	8410	PK 500	8400.00	216.10	237.47	227.08	237.54	0.000204	2.82	4485.92	911.60	0.11
Tripps Run	1	8199	PK 10	3777.00	215.41	229.45	222.50	229.84	0.001408	5.07	828.53	179.40	0.27
Tripps Run	1	8199	PK 50	5410.00	215.41	233.30	224.04	233.61	0.000828	4.73	1619.90	598.03	0.22
Tripps Run	1	8199	PK 100	6740.00	215.41	234.72	225.09	235.07	0.000862	5.13	1933.73	729.30	0.22
Tripps Run	1	8199	PK 500	8400.00	215.41	237.10	226.28	237.40	0.000699	5.06	2679.73	852.60	0.21
Tripps Run	1	8159	Sleepy Hollow Ro	Bridge									
Tripps Run	1	8103	PK 10	3777.00	215.96	226.28	222.96	226.96	0.003806	6.71	606.02	95.58	0.42
Tripps Run	1	8103	PK 50	5410.00	215.96	227.87	224.23	228.78	0.004034	7.82	764.96	105.32	0.45
Tripps Run	1	8103	PK 100	6740.00	215.96	228.93	225.15	230.03	0.004261	8.64	886.87	180.12	0.47
Tripps Run	1	8103	PK 500	8400.00	215.96	229.75	226.20	231.16	0.005003	9.85	1039.88	354.52	0.52
Tripps Run	1	7960	PK 10	3777.00	214.96	225.16	222.43	226.18	0.005917	8.16	475.95	75.20	0.52
Tripps Run	1	7960	PK 50	5410.00	214.96	226.26	223.92	227.81	0.007544	10.09	568.17	123.30	0.60
Tripps Run	1	7960	PK 100	6740.00	214.96	227.03	224.99	228.95	0.008472	11.32	723.02	262.08	0.65
Tripps Run	1	7960	PK 500	8400.00	214.96	228.05	226.65	230.07	0.008270	11.97	1003.51	288.90	0.65



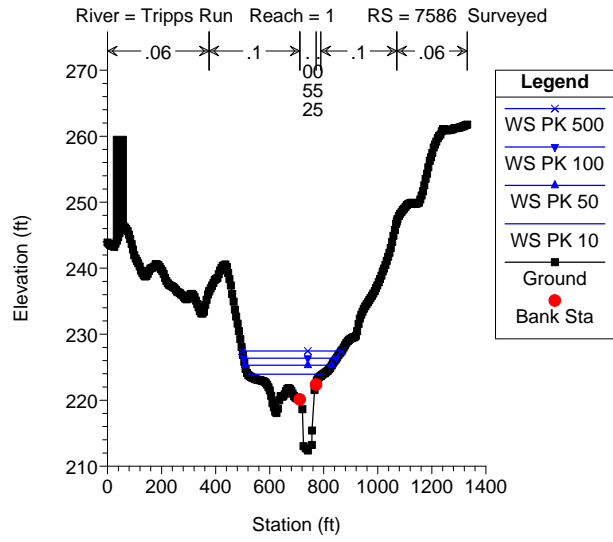
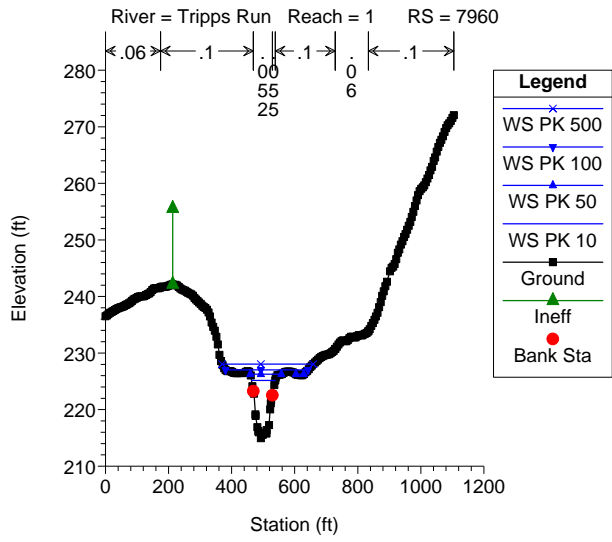








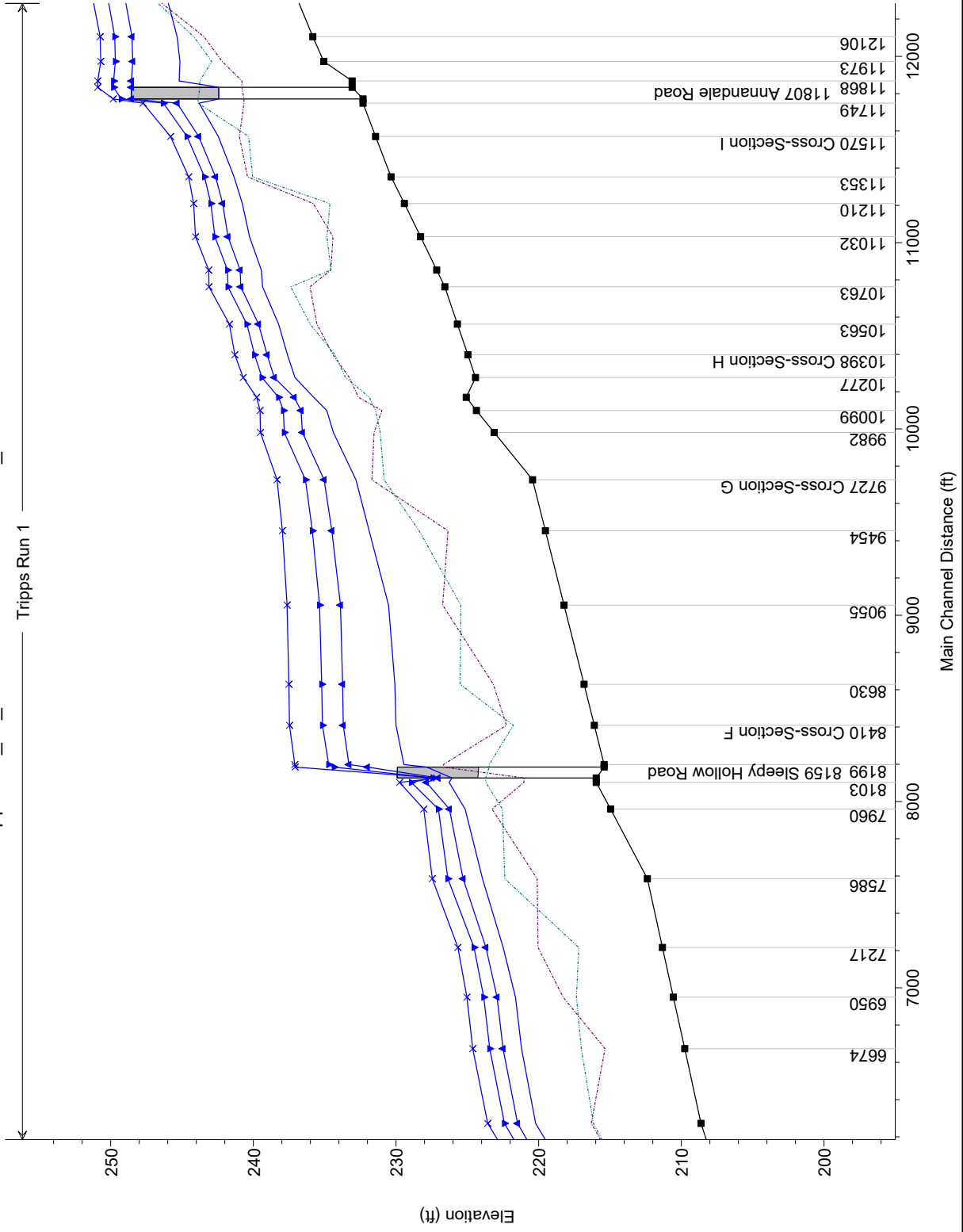




TripplRun\_All\_Plans Plan: Scenario1\_07232020 8/5/2020

TripplRun 1

Legend	
WS PK 500	— x —
WS PK 100	— ▲ —
WS PK 50	— ▼ —
WS PK 10	— ◆ —
Ground	— ■ —
LOB	— · · —
ROB	— · · · —



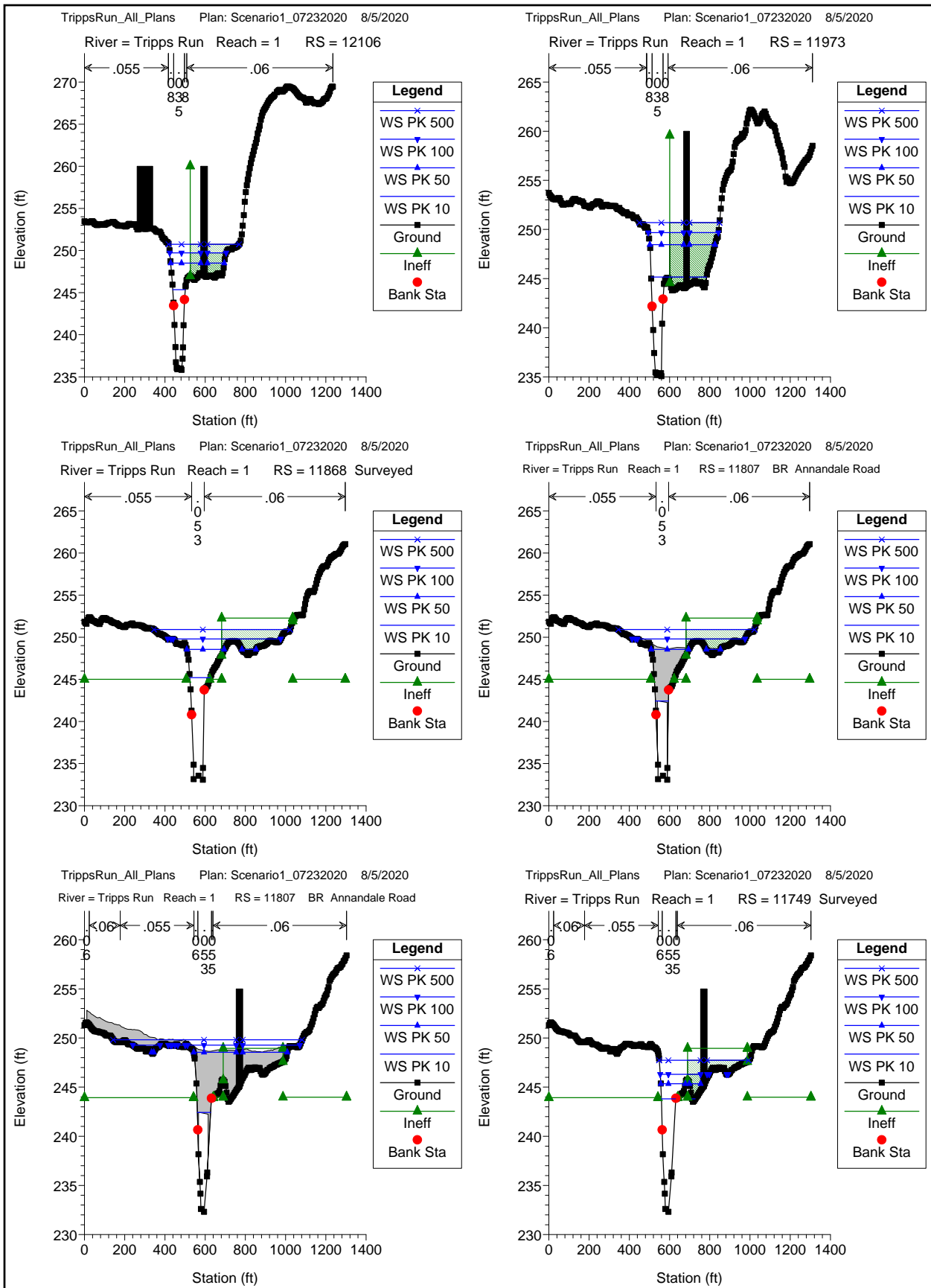
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sqft)	Top Width (ft)	Froude # Chl
Tripps Run	1	12106	PK 10	3301.00	235.83	245.35	242.53	246.37	0.002762	8.10	412.78	62.30	0.52
Tripps Run	1	12106	PK 50	4694.00	235.83	248.51	244.00	249.45	0.001637	7.89	671.95	232.83	0.43
Tripps Run	1	12106	PK 100	5663.00	235.83	249.72	244.85	250.76	0.001605	8.39	791.86	246.97	0.43
Tripps Run	1	12106	PK 500	7200.00	235.83	250.74	246.10	252.11	0.001907	9.67	898.51	316.69	0.47
Tripps Run	1	11973	PK 10	3301.00	235.07	245.15	241.72	246.00	0.002068	7.38	466.98	247.06	0.46
Tripps Run	1	11973	PK 50	4694.00	235.07	248.46	243.14	249.21	0.001215	7.10	782.82	295.41	0.37
Tripps Run	1	11973	PK 100	5663.00	235.07	249.67	243.98	250.51	0.001219	7.61	907.41	319.75	0.38
Tripps Run	1	11973	PK 500	7200.00	235.07	250.70	245.50	251.81	0.001473	8.81	1032.12	369.70	0.42
Tripps Run	1	11868	PK 10	3301.00	233.08	245.20	238.69	245.56	0.001579	4.91	707.15	101.78	0.27
Tripps Run	1	11868	PK 50	4694.00	233.08	248.55	240.04	248.87	0.001058	4.83	1176.58	256.52	0.23
Tripps Run	1	11868	PK 100	5663.00	233.08	249.80	240.87	250.14	0.001042	5.07	1432.97	551.27	0.23
Tripps Run	1	11868	PK 500	7200.00	233.08	250.91	242.04	251.31	0.001157	5.60	1768.74	676.91	0.24
Tripps Run	1	11807 Annandale Road	Bridge										
Tripps Run	1	11749	PK 10	3301.00	232.31	243.81	239.67	244.43	0.003625	6.34	525.63	87.97	0.40
Tripps Run	1	11749	PK 50	4694.00	232.31	245.35	241.07	246.16	0.003842	7.34	689.31	177.33	0.43
Tripps Run	1	11749	PK 100	5663.00	232.31	246.31	241.92	247.21	0.003803	7.80	814.78	219.63	0.43
Tripps Run	1	11749	PK 500	7200.00	232.31	247.73	243.13	248.70	0.003573	8.26	1012.97	411.88	0.43
Tripps Run	1	11570	PK 10	3301.00	231.43	242.46	240.03	243.53	0.005179	8.41	425.57	152.23	0.55
Tripps Run	1	11570	PK 50	4694.00	231.43	243.83	241.85	245.19	0.005411	9.65	545.99	377.82	0.58
Tripps Run	1	11570	PK 100	5663.00	231.43	244.65	242.71	246.20	0.005567	10.39	617.50	398.00	0.60
Tripps Run	1	11570	PK 500	7200.00	231.43	245.80	243.84	247.64	0.005774	11.43	718.98	478.65	0.62
Tripps Run	1	11353	PK 10	3301.00	230.35	241.35	238.09	242.24	0.006264	7.59	454.16	253.88	0.49
Tripps Run	1	11353	PK 50	4694.00	230.35	242.65	239.72	243.82	0.006870	8.85	573.75	394.33	0.53
Tripps Run	1	11353	PK 100	5663.00	230.35	243.42	240.75	244.77	0.007189	9.59	645.07	476.42	0.55
Tripps Run	1	11353	PK 500	7200.00	230.35	244.54	242.29	246.15	0.007527	10.57	748.17	570.16	0.57
Tripps Run	1	11210	PK 10	3301.00	229.41	240.77	237.44	241.47	0.004038	7.26	577.71	483.29	0.42
Tripps Run	1	11210	PK 50	4694.00	229.41	242.15	239.98	242.96	0.004128	8.04	750.58	574.35	0.43
Tripps Run	1	11210	PK 100	5663.00	229.41	242.98	240.65	243.86	0.004184	8.50	854.01	611.02	0.44
Tripps Run	1	11210	PK 500	7200.00	229.41	244.19	241.50	245.17	0.004203	9.10	1005.15	670.36	0.45
Tripps Run	1	11032	PK 10	3301.00	228.28	240.27	236.64	240.79	0.003063	6.56	734.07	373.43	0.37
Tripps Run	1	11032	PK 50	4694.00	228.28	241.78	239.36	242.27	0.002694	6.76	1056.25	447.66	0.35
Tripps Run	1	11032	PK 100	5663.00	228.28	242.70	239.93	243.16	0.002446	6.78	1272.59	470.91	0.34
Tripps Run	1	11032	PK 500	7200.00	228.28	244.06	240.76	244.48	0.002069	6.68	1615.33	517.30	0.32
Tripps Run	1	10853	PK 10	3301.00	227.15	239.44	236.03	240.14	0.003996	7.23	590.37	336.31	0.41
Tripps Run	1	10853	PK 50	4694.00	227.15	240.93	238.24	241.66	0.003786	7.75	797.74	427.78	0.41
Tripps Run	1	10853	PK 100	5663.00	227.15	241.82	239.41	242.59	0.003696	8.07	921.66	456.97	0.41

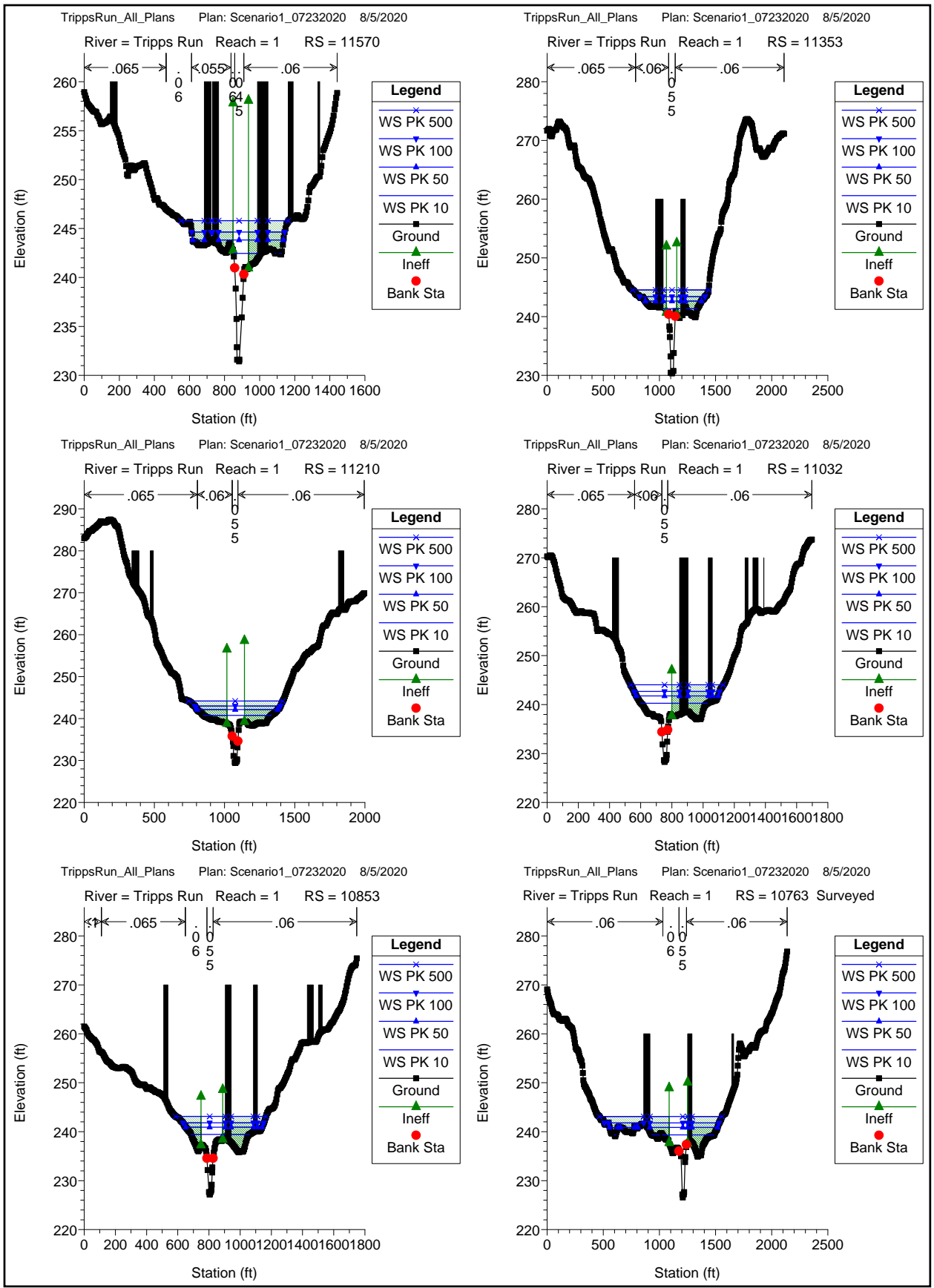
HEC-RAS Plan: S1\_07232020 Locations: User Defined (Continued)

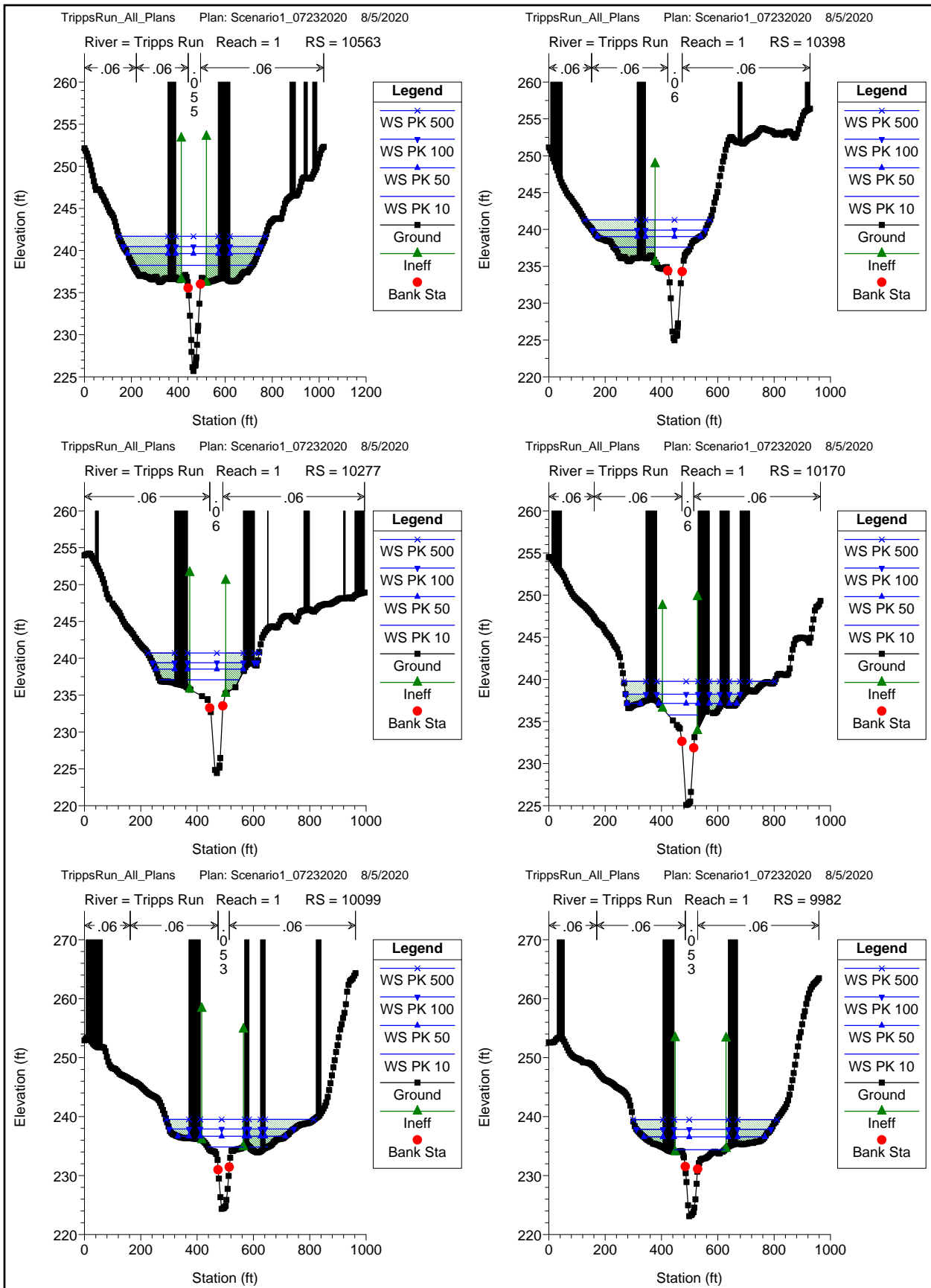
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	10853	PK 500	7200.00	227.15	243.13	240.23	243.96	0.003531	8.45	1104.84	517.62	0.41
Tripps Run	1	10763	PK 10	3301.00	226.58	239.36	236.50	239.73	0.003056	5.33	753.36	503.15	0.35
Tripps Run	1	10763	PK 50	4694.00	226.58	240.88	237.94	241.28	0.002657	5.64	1003.62	771.81	0.34
Tripps Run	1	10763	PK 100	5663.00	226.58	241.78	238.43	242.21	0.002540	5.89	1151.73	924.36	0.33
Tripps Run	1	10763	PK 500	7200.00	226.58	243.11	239.08	243.59	0.002391	6.23	1370.36	998.71	0.33
Tripps Run	1	10563	PK 10	3301.00	225.70	238.23	234.47	238.95	0.004367	6.99	531.22	424.96	0.42
Tripps Run	1	10563	PK 50	4694.00	225.70	239.64	236.09	240.52	0.004597	7.95	681.70	473.16	0.45
Tripps Run	1	10563	PK 100	5663.00	225.70	240.45	237.70	241.45	0.004772	8.55	768.73	503.54	0.46
Tripps Run	1	10563	PK 500	7200.00	225.70	241.69	238.79	242.84	0.004853	9.27	900.73	541.34	0.47
Tripps Run	1	10398	PK 10	3301.00	224.96	237.61	233.98	238.19	0.004378	6.50	593.21	242.39	0.39
Tripps Run	1	10398	PK 50	4694.00	224.96	239.04	236.11	239.73	0.004422	7.24	790.75	336.99	0.40
Tripps Run	1	10398	PK 100	5663.00	224.96	239.91	236.83	240.64	0.004273	7.53	942.00	371.24	0.40
Tripps Run	1	10398	PK 500	7200.00	224.96	241.30	237.88	242.02	0.003775	7.66	1200.67	415.57	0.39
Tripps Run	1	10277	PK 10	3301.00	224.43	237.09	233.18	237.68	0.004133	6.58	606.53	236.57	0.38
Tripps Run	1	10277	PK 50	4694.00	224.43	238.53	235.47	239.21	0.004109	7.23	791.45	265.27	0.39
Tripps Run	1	10277	PK 100	5663.00	224.43	239.40	236.60	240.13	0.004113	7.62	901.70	285.75	0.39
Tripps Run	1	10277	PK 500	7200.00	224.43	240.71	237.47	241.52	0.003989	8.06	1070.00	309.84	0.40
Tripps Run	1	10170	PK 10	3301.00	225.08	235.77	233.45	236.91	0.008522	8.85	428.02	106.11	0.54
Tripps Run	1	10170	PK 50	4694.00	225.08	237.14	235.56	238.43	0.008437	9.76	590.47	250.86	0.56
Tripps Run	1	10170	PK 100	5663.00	225.08	238.23	236.76	239.43	0.007174	9.67	726.37	294.15	0.52
Tripps Run	1	10170	PK 500	7200.00	225.08	239.77	237.65	240.92	0.005993	9.66	917.16	389.14	0.49
Tripps Run	1	10099	PK 10	3301.00	224.36	234.86	232.58	236.25	0.007808	9.63	394.52	175.76	0.59
Tripps Run	1	10099	PK 50	4694.00	224.36	236.66	235.41	237.89	0.006035	9.65	647.36	309.35	0.54
Tripps Run	1	10099	PK 100	5663.00	224.36	237.89	236.35	238.94	0.004766	9.26	829.93	369.74	0.49
Tripps Run	1	10099	PK 500	7200.00	224.36	239.53	237.19	240.47	0.003823	9.07	1072.20	452.67	0.44
Tripps Run	1	9982	PK 10	3301.00	223.12	234.39	231.35	235.36	0.005431	8.15	496.77	180.22	0.49
Tripps Run	1	9982	PK 50	4694.00	223.12	236.56	233.49	237.21	0.003238	7.31	888.40	356.48	0.39
Tripps Run	1	9982	PK 100	5663.00	223.12	237.84	235.19	238.39	0.002552	6.99	1119.57	404.73	0.36
Tripps Run	1	9982	PK 500	7200.00	223.12	239.50	235.97	240.02	0.002083	6.89	1421.12	438.63	0.33
Tripps Run	1	9727	PK 10	3777.00	220.43	232.81	228.93	233.92	0.005839	8.47	461.62	88.21	0.49
Tripps Run	1	9727	PK 50	5410.00	220.43	235.04	230.83	236.16	0.004807	8.88	733.54	184.82	0.46
Tripps Run	1	9727	PK 100	6740.00	220.43	236.35	232.25	237.48	0.004449	9.19	935.52	323.91	0.45
Tripps Run	1	9727	PK 500	8400.00	220.43	238.34	234.77	239.30	0.003394	8.84	1292.00	425.44	0.41
Tripps Run	1	9454	PK 10	3777.00	219.53	231.88	228.06	232.59	0.003452	7.14	751.41	382.18	0.40
Tripps Run	1	9454	PK 50	5410.00	219.53	234.50	229.68	235.09	0.002400	6.97	1279.34	537.65	0.35
Tripps Run	1	9454	PK 100	6740.00	219.53	235.86	231.39	236.47	0.002261	7.26	1584.02	570.06	0.35

HEC-RAS Plan: S1\_07232020 Locations: User Defined (Continued)

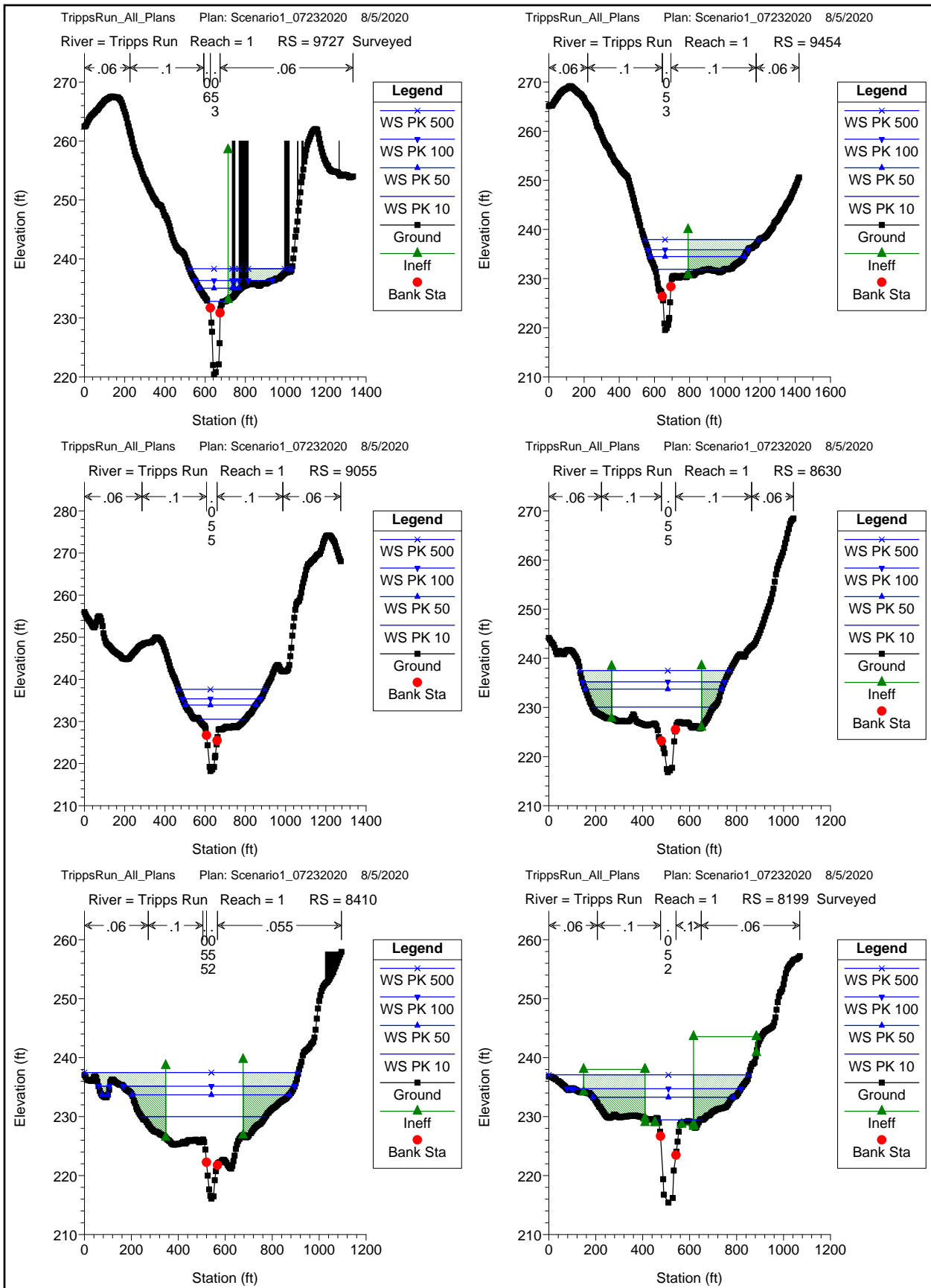
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	9454	PK 500	8400.00	219.53	237.96	232.55	238.50	0.001804	7.13	2082.06	652.81	0.32
Tripps Run	1	9055	PK 10	3777.00	218.22	230.52		231.18	0.003493	6.86	795.99	230.23	0.39
Tripps Run	1	9055	PK 50	5410.00	218.22	233.90		234.24	0.001541	5.58	1818.92	351.76	0.27
Tripps Run	1	9055	PK 100	6740.00	218.22	235.36		235.68	0.001356	5.63	2358.99	387.31	0.26
Tripps Run	1	9055	PK 500	8400.00	218.22	237.64		237.89	0.000958	5.22	3296.86	431.48	0.23
Tripps Run	1	8630	PK 10	3777.00	216.82	230.08	224.78	230.27	0.001112	4.13	1712.79	517.40	0.23
Tripps Run	1	8630	PK 50	5410.00	216.82	233.74	226.32	233.84	0.000462	3.26	3116.00	582.51	0.15
Tripps Run	1	8630	PK 100	6740.00	216.82	235.21	228.19	235.31	0.000442	3.41	3677.02	605.23	0.15
Tripps Run	1	8630	PK 500	8400.00	216.82	237.52	228.92	237.61	0.000359	3.37	4559.99	639.39	0.14
Tripps Run	1	8410	PK 10	3777.00	216.10	230.00	224.21	230.09	0.000448	2.99	2023.72	527.99	0.16
Tripps Run	1	8410	PK 50	5410.00	216.10	233.70	225.11	233.76	0.000231	2.58	3242.10	696.70	0.12
Tripps Run	1	8410	PK 100	6740.00	216.10	235.16	225.87	235.23	0.000234	2.77	3724.26	777.41	0.12
Tripps Run	1	8410	PK 500	8400.00	216.10	237.47	227.08	237.54	0.000204	2.82	4485.92	911.60	0.11
Tripps Run	1	8199	PK 10	3777.00	215.41	229.45	222.50	229.84	0.001408	5.07	828.53	179.40	0.27
Tripps Run	1	8199	PK 50	5410.00	215.41	233.30	224.04	233.61	0.000828	4.73	1619.90	598.03	0.22
Tripps Run	1	8199	PK 100	6740.00	215.41	234.72	225.09	235.07	0.000862	5.13	1933.73	729.30	0.22
Tripps Run	1	8199	PK 500	8400.00	215.41	237.10	226.28	237.40	0.000699	5.06	2679.73	852.60	0.21
Tripps Run	1	8159	Sleepy Hollow Ro	Bridge									
Tripps Run	1	8103	PK 10	3777.00	215.96	226.28	222.96	226.96	0.003806	6.71	606.02	95.58	0.42
Tripps Run	1	8103	PK 50	5410.00	215.96	227.87	224.23	228.78	0.004034	7.82	764.96	105.32	0.45
Tripps Run	1	8103	PK 100	6740.00	215.96	228.93	225.15	230.03	0.004261	8.64	886.87	180.12	0.47
Tripps Run	1	8103	PK 500	8400.00	215.96	229.75	226.20	231.16	0.005003	9.85	1039.88	354.52	0.52
Tripps Run	1	7960	PK 10	3777.00	214.96	225.16	222.43	226.18	0.005917	8.16	475.95	75.20	0.52
Tripps Run	1	7960	PK 50	5410.00	214.96	226.26	223.92	227.81	0.007544	10.09	568.17	123.30	0.60
Tripps Run	1	7960	PK 100	6740.00	214.96	227.03	224.99	228.95	0.008472	11.32	723.02	262.08	0.65
Tripps Run	1	7960	PK 500	8400.00	214.96	228.05	226.65	230.07	0.008270	11.97	1003.51	288.90	0.65

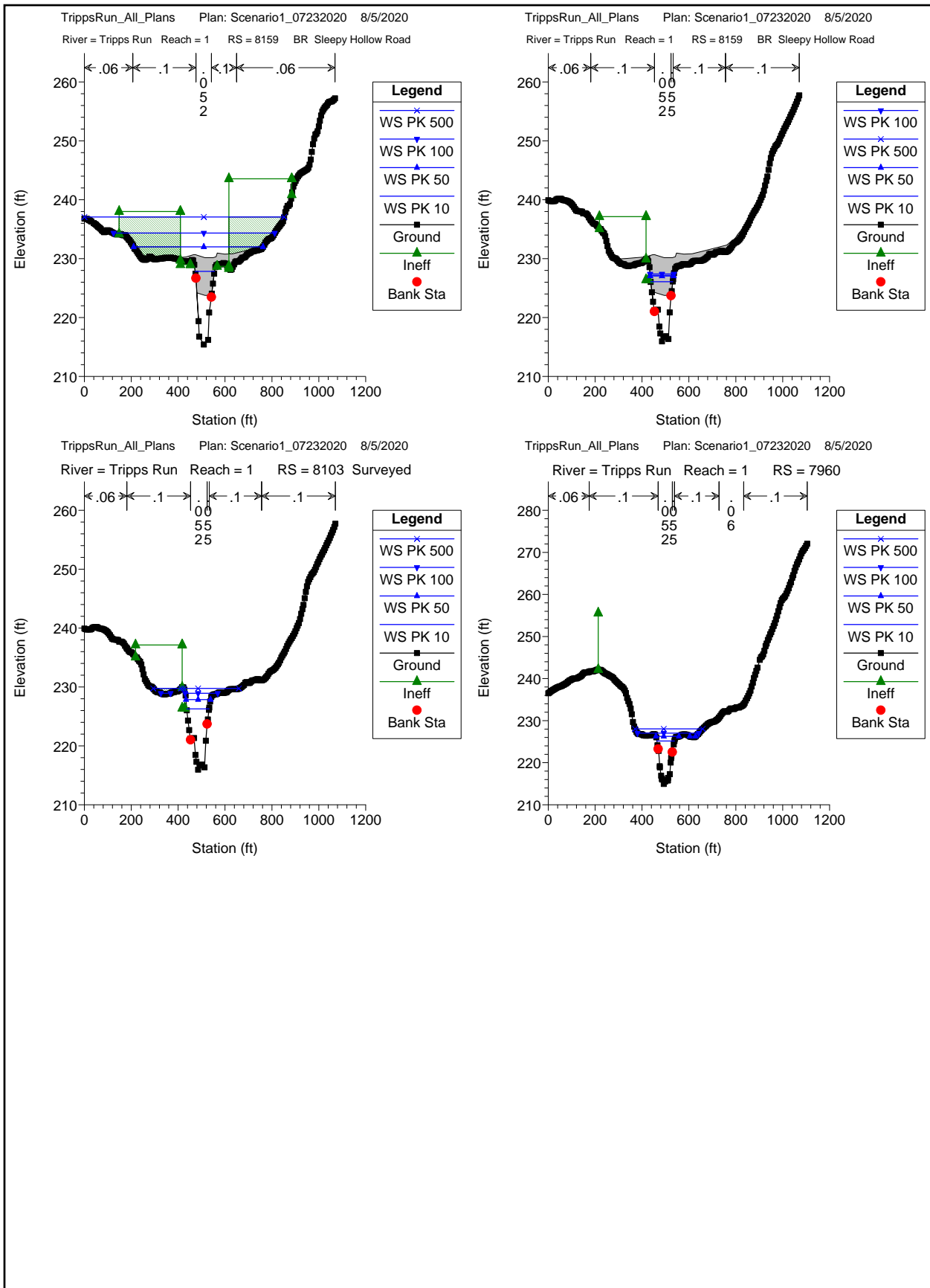




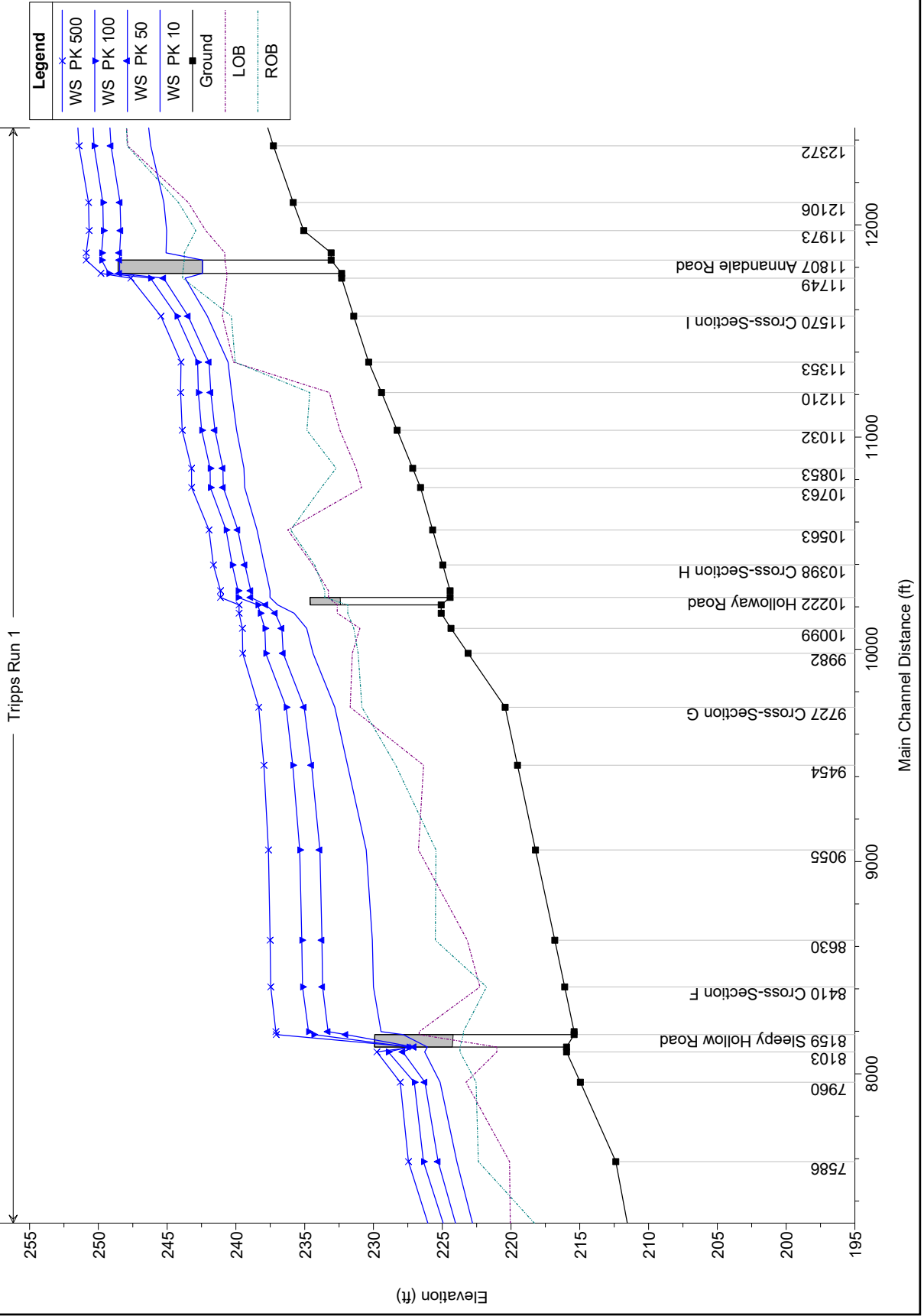








TripplsRun\_All\_Plans Plan: Scenario2\_Bridge\_07232020 8/6/2020



HEC-RAS Plan: Scenario2\_Br Locations: User Defined

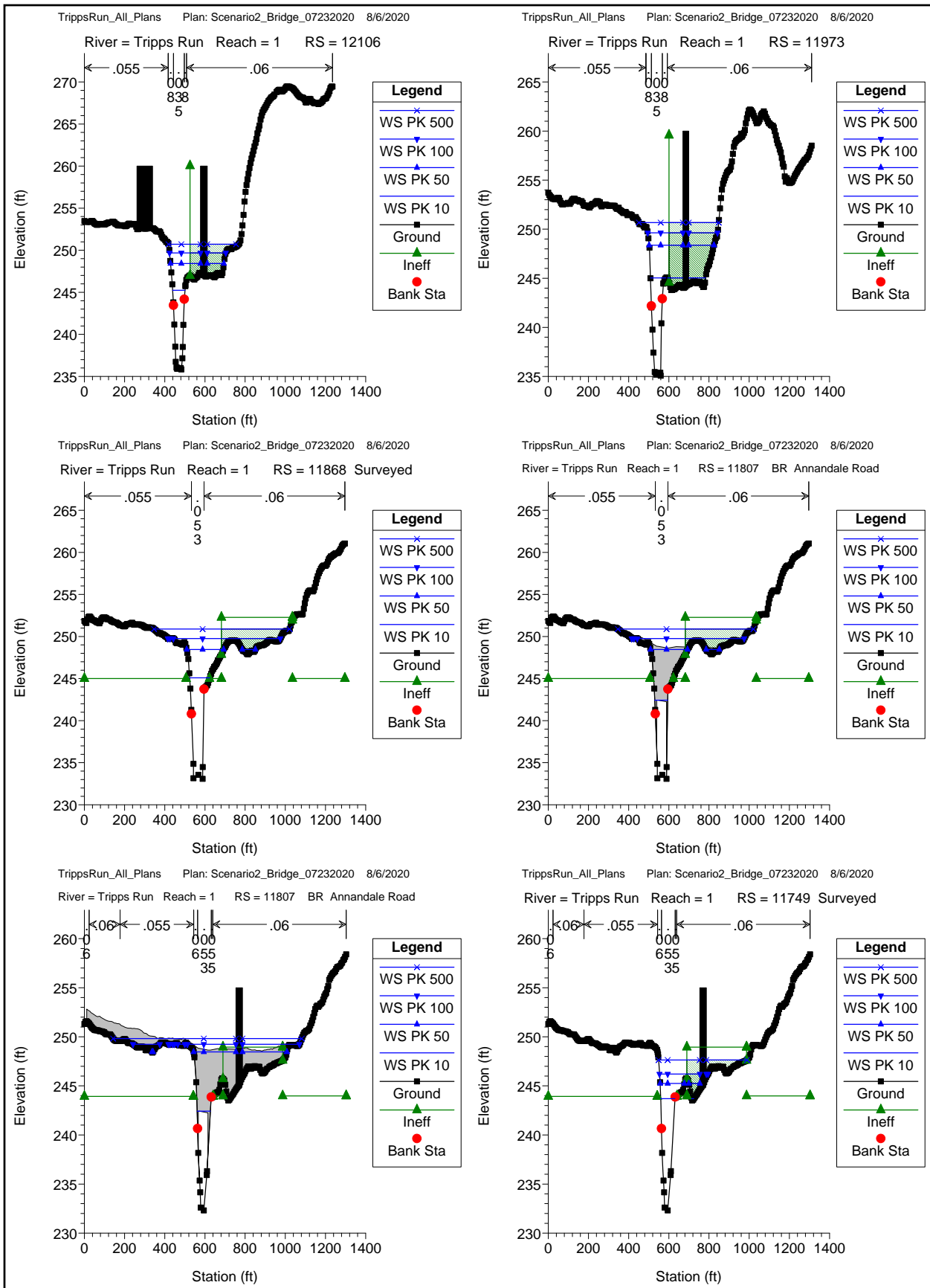
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	12106	PK 10	3301.00	235.83	245.24	242.53	246.29	0.002898	8.22	406.23	61.71	0.53
Tripps Run	1	12106	PK 50	4694.00	235.83	248.42	244.00	249.38	0.001689	7.97	663.32	232.06	0.43
Tripps Run	1	12106	PK 100	5663.00	235.83	249.68	244.85	250.73	0.001623	8.42	788.12	246.25	0.43
Tripps Run	1	12106	PK 500	7200.00	235.83	250.71	246.10	252.09	0.001922	9.69	895.69	302.40	0.48
Tripps Run	1	11973	PK 10	3301.00	235.07	245.03	241.72	245.90	0.002175	7.50	456.15	238.32	0.47
Tripps Run	1	11973	PK 50	4694.00	235.07	248.37	243.14	249.13	0.001251	7.17	773.77	293.86	0.38
Tripps Run	1	11973	PK 100	5663.00	235.07	249.64	243.98	250.48	0.001233	7.64	903.41	319.22	0.38
Tripps Run	1	11973	PK 500	7200.00	235.07	250.67	245.50	251.79	0.001484	8.83	1028.01	368.95	0.42
Tripps Run	1	11868	PK 10	3301.00	233.08	245.08	238.69	245.45	0.001647	4.97	695.05	100.04	0.27
Tripps Run	1	11868	PK 50	4694.00	233.08	248.46	240.04	248.79	0.001091	4.88	1160.70	249.55	0.23
Tripps Run	1	11868	PK 100	5663.00	233.08	249.76	240.87	250.11	0.001065	5.10	1423.43	543.09	0.23
Tripps Run	1	11868	PK 500	7200.00	233.08	250.88	242.04	251.29	0.001168	5.62	1759.59	674.79	0.25
Tripps Run	1	11807 Annandale Road	Bridge										
Tripps Run	1	11749	PK 10	3301.00	232.31	243.69	239.67	244.34	0.003782	6.44	517.75	82.16	0.41
Tripps Run	1	11749	PK 50	4694.00	232.31	245.25	241.07	248.09	0.003995	7.43	677.85	175.17	0.43
Tripps Run	1	11749	PK 100	5663.00	232.31	246.21	241.92	247.14	0.003954	7.90	801.55	208.46	0.44
Tripps Run	1	11749	PK 500	7200.00	232.31	247.64	243.13	248.63	0.003701	8.36	998.91	407.06	0.43
Tripps Run	1	11570	PK 10	3301.00	231.43	242.08	240.03	243.30	0.006331	8.97	393.43	134.71	0.60
Tripps Run	1	11570	PK 50	4694.00	231.43	243.47	241.85	244.99	0.006398	10.19	513.61	347.05	0.62
Tripps Run	1	11570	PK 100	5663.00	231.43	244.29	242.71	246.01	0.006467	10.91	585.82	392.55	0.64
Tripps Run	1	11570	PK 500	7200.00	231.43	245.45	243.84	247.46	0.006568	11.92	688.24	419.75	0.66
Tripps Run	1	11353	PK 10	3301.00	230.35	240.57	238.13	241.64	0.008887	8.29	400.48	153.61	0.58
Tripps Run	1	11353	PK 50	4694.00	230.35	241.95	239.70	243.31	0.008985	9.48	522.81	342.81	0.60
Tripps Run	1	11353	PK 100	5663.00	230.35	242.79	240.62	244.31	0.008891	10.10	600.63	404.26	0.61
Tripps Run	1	11353	PK 500	7200.00	230.35	244.00	242.07	245.75	0.008750	10.94	711.97	538.44	0.61
Tripps Run	1	11210	PK 10	3301.00	229.41	240.32	236.61	240.80	0.002861	6.30	659.67	446.19	0.36
Tripps Run	1	11210	PK 50	4694.00	229.41	241.82	237.81	242.41	0.002920	7.01	847.96	559.37	0.37
Tripps Run	1	11210	PK 100	5663.00	229.41	242.73	238.74	243.38	0.002956	7.43	961.33	602.39	0.38
Tripps Run	1	11210	PK 500	7200.00	229.41	244.02	240.07	244.77	0.003001	8.01	1123.16	661.42	0.39
Tripps Run	1	11032	PK 10	3301.00	228.28	239.95	235.76	240.30	0.002292	5.65	844.98	348.80	0.32
Tripps Run	1	11032	PK 50	4694.00	228.28	241.52	236.90	241.89	0.002121	6.01	1171.73	439.67	0.31
Tripps Run	1	11032	PK 100	5663.00	228.28	242.49	237.56	242.85	0.001957	6.10	1396.37	465.80	0.31
Tripps Run	1	11032	PK 500	7200.00	228.28	243.90	238.01	244.24	0.001664	6.04	1748.33	511.75	0.29
Tripps Run	1	10853	PK 10	3301.00	227.15	239.42	235.15	239.85	0.002342	5.99	722.04	334.89	0.33
Tripps Run	1	10853	PK 50	4694.00	227.15	240.95	236.47	241.45	0.002372	6.60	935.70	428.44	0.34
Tripps Run	1	10853	PK 100	5663.00	227.15	241.88	237.51	242.43	0.002380	6.95	1065.84	459.15	0.34

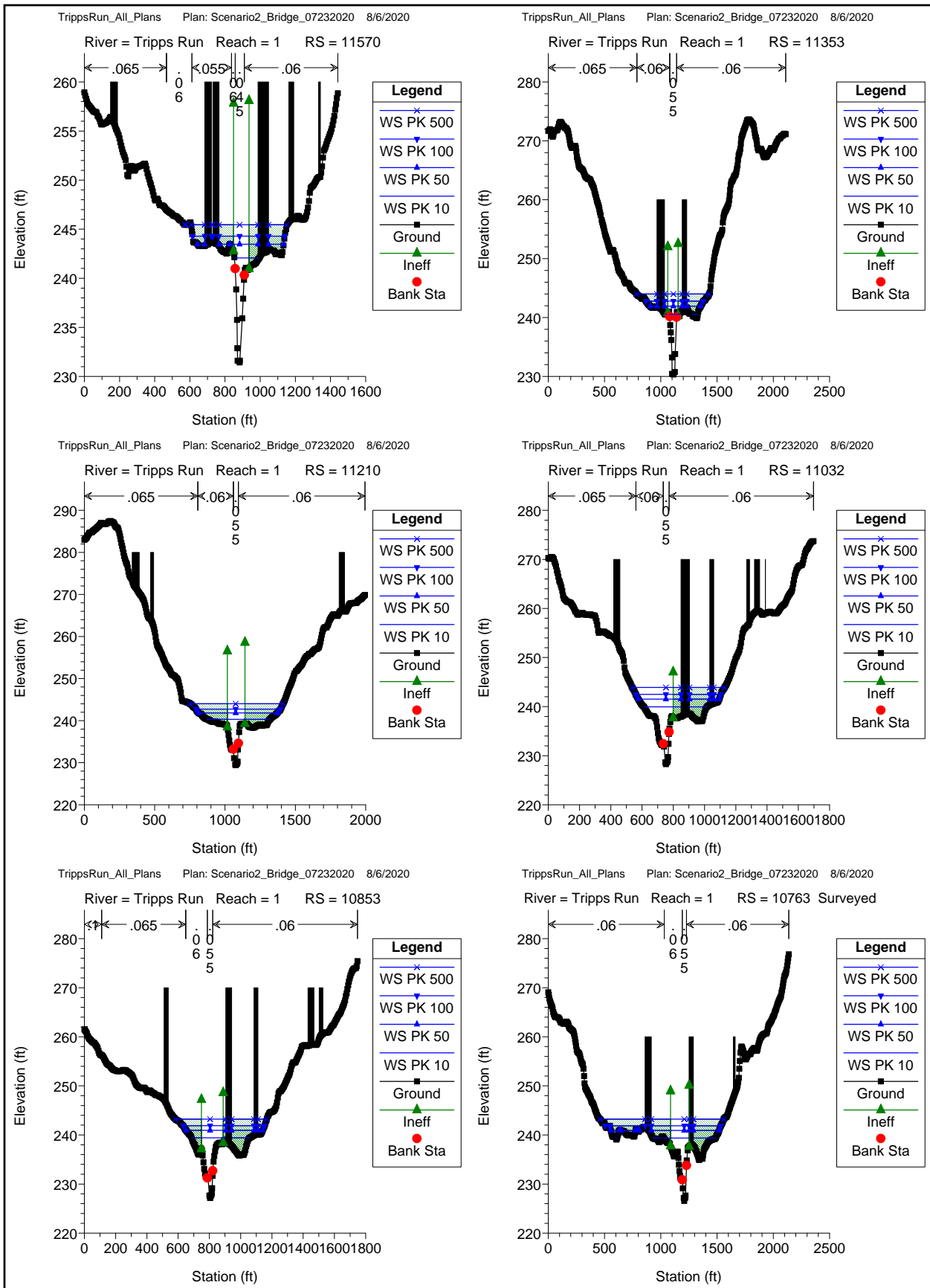
HEC-RAS Plan: Scenario2\_Br Locations: User Defined (Continued)

River	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 (sqft)	Top Width (ft)	Froude # Chl
Tripps Run	1	10853	PK 500	7200.00	227.15	243.23	239.04	243.85	0.002378	7.42	1253.83	522.20	0.35
Tripps Run	1	10763	PK 10	3301.00	226.58	239.37	234.32	239.63	0.001501	4.91	932.87	504.45	0.26
Tripps Run	1	10763	PK 50	4694.00	226.58	240.92	235.58	241.22	0.001509	5.38	1187.41	780.27	0.27
Tripps Run	1	10763	PK 100	5663.00	226.58	241.86	236.54	242.20	0.001521	5.67	1342.19	932.79	0.27
Tripps Run	1	10763	PK 500	7200.00	226.58	243.22	236.54	243.61	0.001535	6.08	1565.76	1005.54	0.28
Tripps Run	1	10563	PK 10	3301.00	225.70	238.46	234.47	239.12	0.003972	6.69	555.32	435.53	0.41
Tripps Run	1	10563	PK 50	4694.00	225.70	239.86	236.13	240.68	0.004231	7.65	705.05	479.93	0.43
Tripps Run	1	10563	PK 100	5663.00	225.70	240.72	237.70	241.64	0.004344	8.19	796.47	512.02	0.44
Tripps Run	1	10563	PK 500	7200.00	225.70	241.96	238.77	243.03	0.004447	8.92	929.24	547.65	0.45
Tripps Run	1	10398	PK 10	3301.00	224.96	237.93	233.98	238.45	0.003704	6.13	634.34	250.86	0.36
Tripps Run	1	10398	PK 50	4694.00	224.96	239.34	236.11	239.96	0.003830	6.88	842.27	354.80	0.38
Tripps Run	1	10398	PK 100	5663.00	224.96	240.27	236.83	240.91	0.003621	7.08	1007.44	381.87	0.37
Tripps Run	1	10398	PK 500	7200.00	224.96	241.64	237.88	242.28	0.003282	7.28	1268.11	424.27	0.36
Tripps Run	1	10277	PK 10	3301.00	224.43	237.52	233.18	238.01	0.003302	6.07	662.06	247.59	0.34
Tripps Run	1	10277	PK 50	4694.00	224.43	238.92	235.47	239.51	0.003457	6.79	841.07	270.30	0.36
Tripps Run	1	10277	PK 100	5663.00	224.43	239.84	236.60	240.48	0.003435	7.14	958.56	294.33	0.36
Tripps Run	1	10277	PK 500	7200.00	224.43	241.13	237.47	241.85	0.003444	7.65	1122.72	319.40	0.37
Tripps Run	1	10222	Holloway Road	Bridge									
Tripps Run	1	10170	PK 10	3301.00	225.08	235.77	233.45	236.91	0.008522	8.85	428.02	106.11	0.54
Tripps Run	1	10170	PK 50	4694.00	225.08	237.14	235.56	238.43	0.008437	9.76	590.47	250.86	0.56
Tripps Run	1	10170	PK 100	5663.00	225.08	238.23	236.76	239.43	0.007174	9.67	726.37	294.15	0.52
Tripps Run	1	10170	PK 500	7200.00	225.08	239.77	237.65	240.92	0.005993	9.66	917.16	389.14	0.49
Tripps Run	1	10099	PK 10	3301.00	224.36	234.86	232.58	236.25	0.007808	9.63	394.52	175.76	0.59
Tripps Run	1	10099	PK 50	4694.00	224.36	236.66	235.41	237.89	0.006035	9.65	647.36	309.35	0.54
Tripps Run	1	10099	PK 100	5663.00	224.36	237.89	236.35	238.94	0.004766	9.26	829.93	369.74	0.49
Tripps Run	1	10099	PK 500	7200.00	224.36	239.53	237.19	240.47	0.003823	9.07	1072.20	452.67	0.44
Tripps Run	1	9982	PK 10	3301.00	223.12	234.39	231.35	235.36	0.005431	8.15	496.77	180.22	0.49
Tripps Run	1	9982	PK 50	4694.00	223.12	236.56	233.49	237.21	0.003238	7.31	888.40	356.48	0.39
Tripps Run	1	9982	PK 100	5663.00	223.12	237.84	235.19	238.39	0.002562	6.99	1119.57	404.73	0.36
Tripps Run	1	9982	PK 500	7200.00	223.12	239.50	235.97	240.02	0.002083	6.89	1421.12	438.63	0.33
Tripps Run	1	9727	PK 10	3777.00	220.43	232.81	228.93	233.92	0.005839	8.47	461.62	88.21	0.49
Tripps Run	1	9727	PK 50	5410.00	220.43	235.04	230.83	236.16	0.004807	8.88	733.54	184.82	0.46
Tripps Run	1	9727	PK 100	6740.00	220.43	236.35	232.25	237.48	0.004449	9.19	935.52	323.91	0.45
Tripps Run	1	9727	PK 500	8400.00	220.43	238.34	234.77	239.30	0.003394	8.84	1292.00	425.44	0.41
Tripps Run	1	9454	PK 10	3777.00	219.53	231.88	228.06	232.59	0.003452	7.14	751.41	382.18	0.40

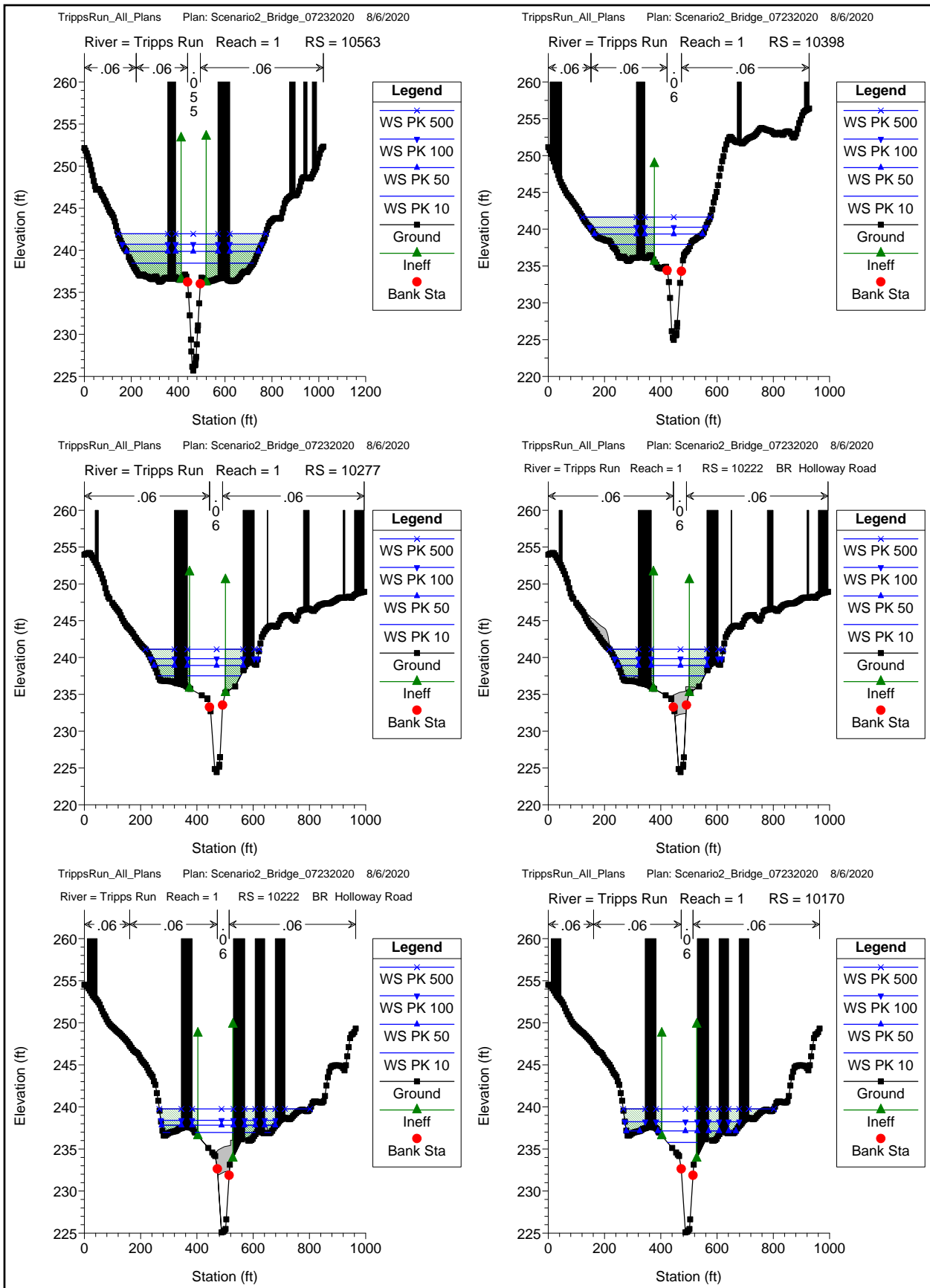
HEC-RAS Plan: Scenario2\_Br Locations: User Defined (Continued)

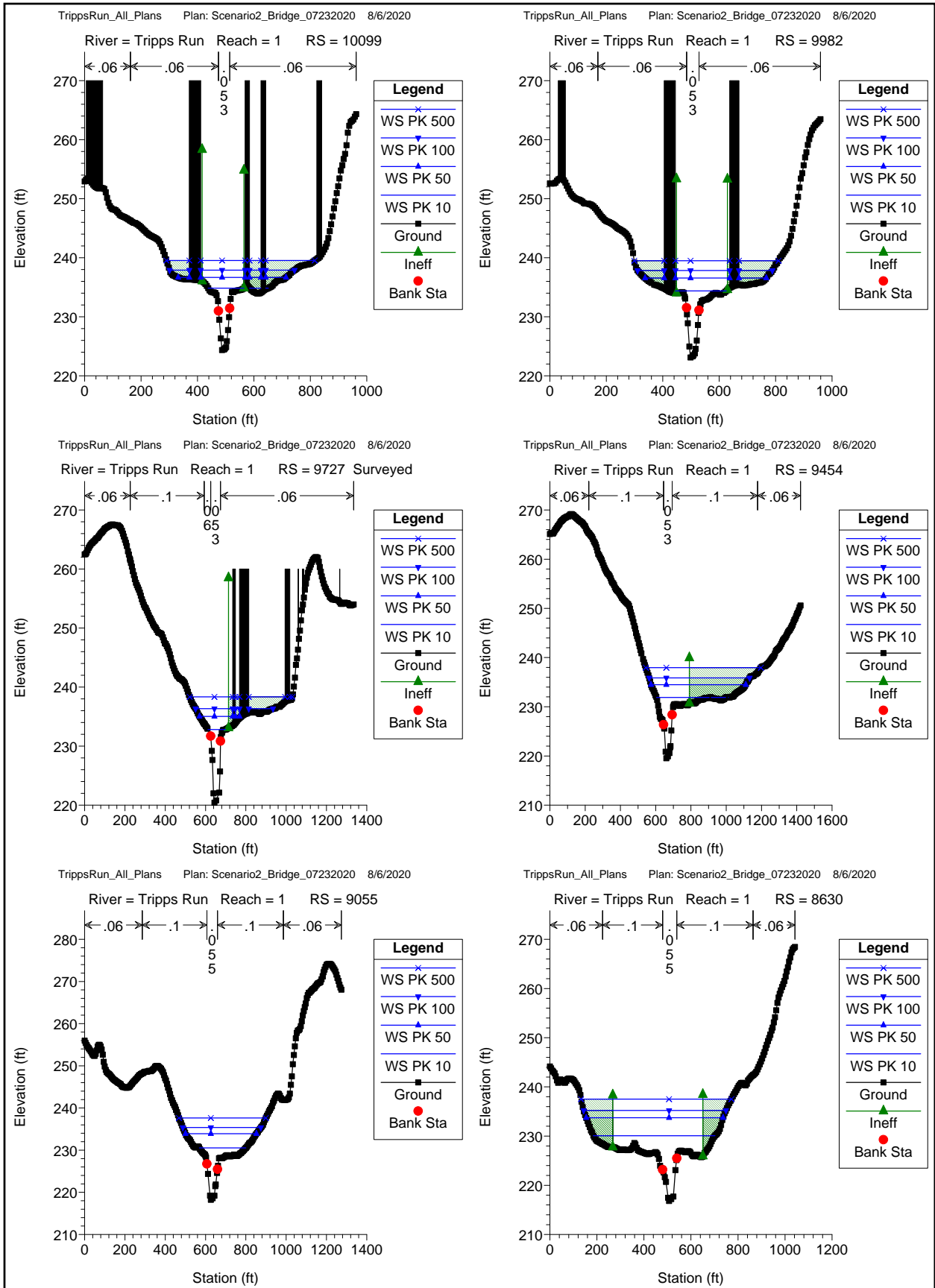
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	9454	PK 50	5410.00	219.53	234.50	229.68	235.09	0.002400	6.97	1279.34	537.65	0.35
Tripps Run	1	9454	PK 100	6740.00	219.53	235.86	231.39	236.47	0.002261	7.26	1584.02	570.06	0.35
Tripps Run	1	9454	PK 500	8400.00	219.53	237.96	232.55	238.50	0.001804	7.13	2082.06	652.81	0.32
Tripps Run	1	9055	PK 10	3777.00	218.22	230.52		231.18	0.003493	6.86	795.99	230.23	0.39
Tripps Run	1	9055	PK 50	5410.00	218.22	233.90		234.24	0.001541	5.58	1818.92	351.76	0.27
Tripps Run	1	9055	PK 100	6740.00	218.22	235.36		235.68	0.001356	5.63	2358.99	387.31	0.26
Tripps Run	1	9055	PK 500	8400.00	218.22	237.64		237.89	0.000958	5.22	3296.86	431.48	0.23
Tripps Run	1	8630	PK 10	3777.00	216.82	230.08	224.78	230.27	0.001112	4.13	1712.79	517.40	0.23
Tripps Run	1	8630	PK 50	5410.00	216.82	233.74	226.32	233.84	0.000462	3.26	3116.00	582.51	0.15
Tripps Run	1	8630	PK 100	6740.00	216.82	235.21	228.19	235.31	0.000442	3.41	3677.02	605.23	0.15
Tripps Run	1	8630	PK 500	8400.00	216.82	237.52	228.92	237.61	0.000359	3.37	4559.99	639.39	0.14
Tripps Run	1	8410	PK 10	3777.00	216.10	230.00	224.21	230.09	0.000448	2.99	2023.72	527.99	0.16
Tripps Run	1	8410	PK 50	5410.00	216.10	233.70	225.11	233.76	0.000231	2.58	3242.10	696.70	0.12
Tripps Run	1	8410	PK 100	6740.00	216.10	235.16	225.87	235.23	0.000234	2.77	3724.26	777.41	0.12
Tripps Run	1	8410	PK 500	8400.00	216.10	237.47	227.08	237.54	0.000204	2.82	4485.92	911.60	0.11
Tripps Run	1	8199	PK 10	3777.00	215.41	229.45	222.50	229.84	0.001408	5.07	828.53	179.40	0.27
Tripps Run	1	8199	PK 50	5410.00	215.41	233.30	224.04	233.61	0.000828	4.73	1619.90	598.03	0.22
Tripps Run	1	8199	PK 100	6740.00	215.41	234.72	225.09	235.07	0.000862	5.13	1933.73	729.30	0.22
Tripps Run	1	8199	PK 500	8400.00	215.41	237.10	226.28	237.40	0.000699	5.06	2679.73	852.60	0.21
Tripps Run	1	8159	Sleepy Hollow Ro	Bridge									
Tripps Run	1	8103	PK 10	3777.00	215.96	226.28	222.96	226.96	0.003806	6.71	606.02	95.58	0.42
Tripps Run	1	8103	PK 50	5410.00	215.96	227.87	224.23	228.78	0.004034	7.82	764.96	105.32	0.45
Tripps Run	1	8103	PK 100	6740.00	215.96	228.93	225.15	230.03	0.004261	8.64	886.87	180.12	0.47
Tripps Run	1	8103	PK 500	8400.00	215.96	229.75	226.20	231.16	0.005003	9.85	1039.88	354.52	0.52
Tripps Run	1	7960	PK 10	3777.00	214.96	225.16	222.43	226.18	0.005917	8.16	475.95	75.20	0.52
Tripps Run	1	7960	PK 50	5410.00	214.96	226.26	223.92	227.81	0.007544	10.09	568.17	123.30	0.60
Tripps Run	1	7960	PK 100	6740.00	214.96	227.03	224.99	228.95	0.008472	11.32	723.02	262.08	0.65
Tripps Run	1	7960	PK 500	8400.00	214.96	228.05	226.65	230.07	0.008270	11.97	1003.51	288.90	0.65

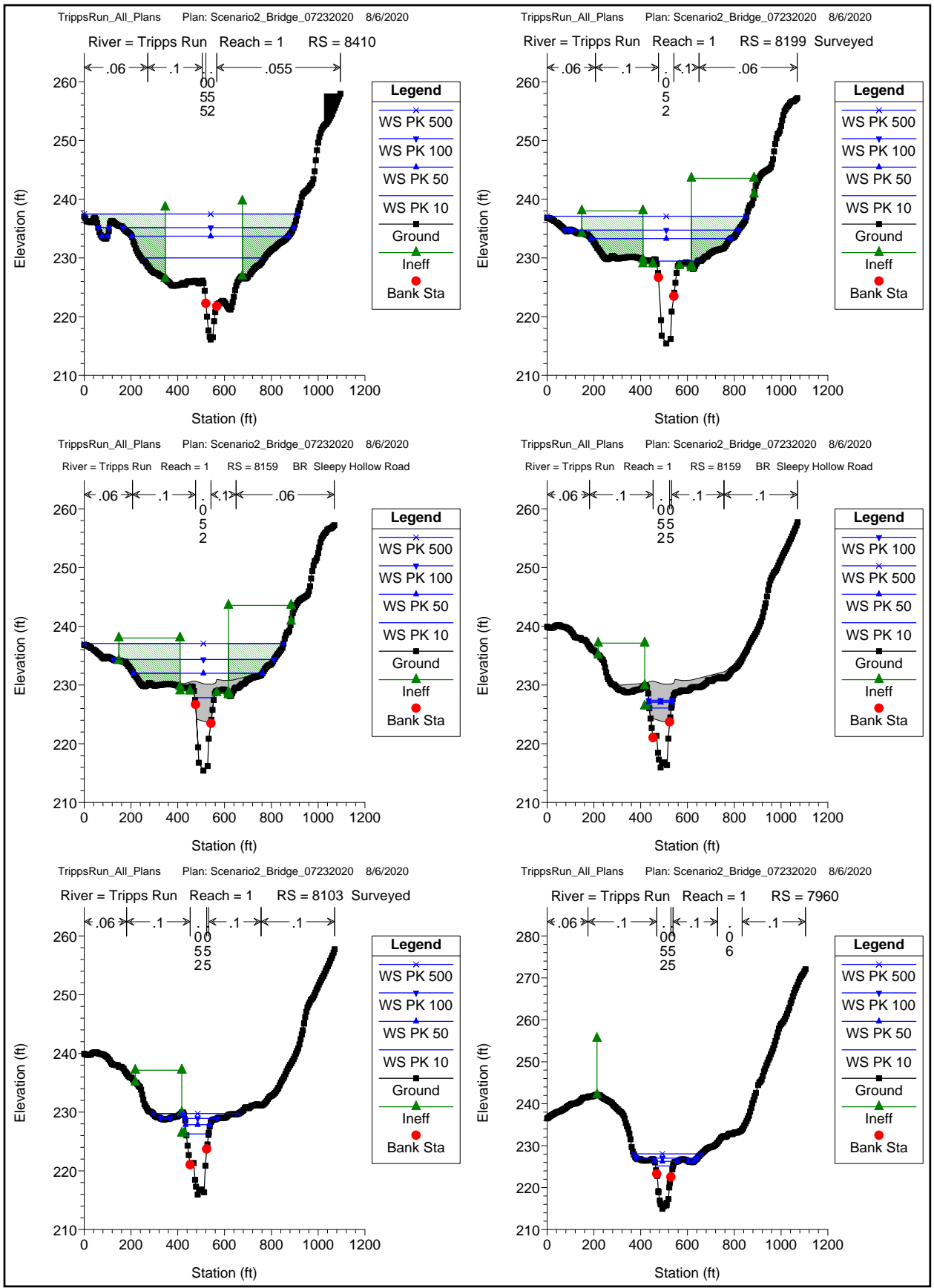




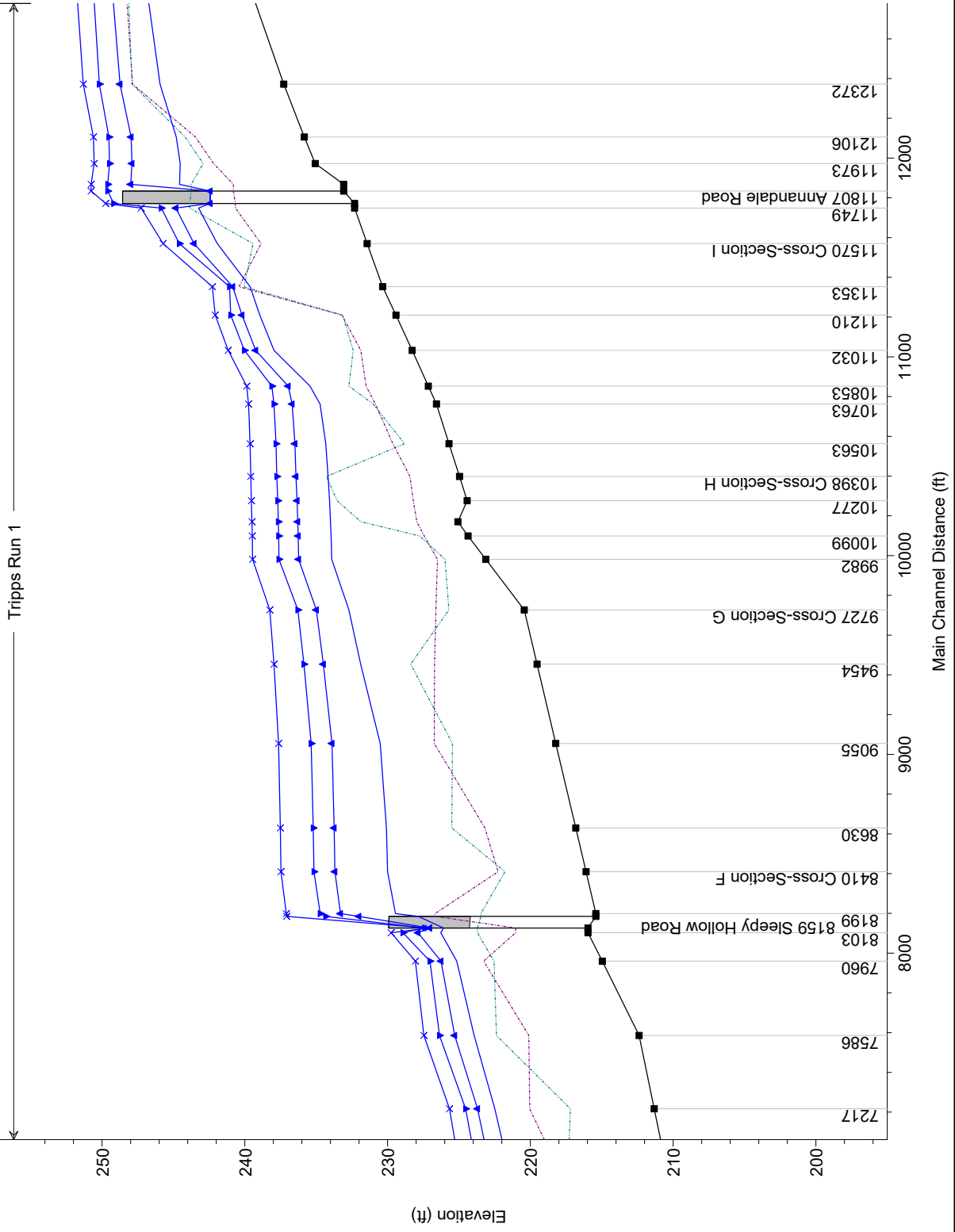








TripplsRun\_All\_Plans Plan: Scenario3\_07232020 8/5/2020



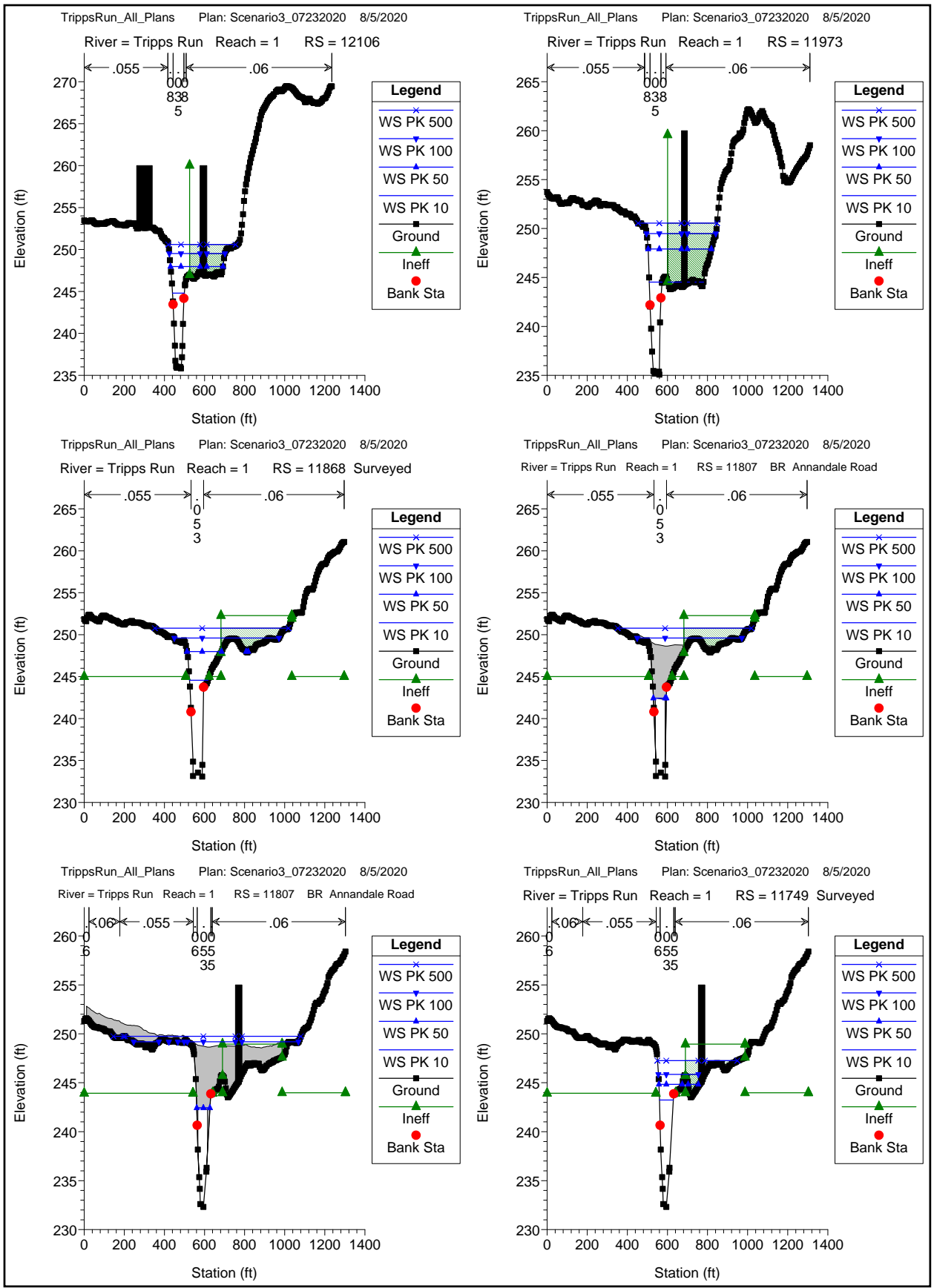
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	12106	PK 10	3301.00	235.83	244.80	242.53	245.99	0.003555	8.74	379.82	59.28	0.58
Tripps Run	1	12106	PK 50	4694.00	235.83	247.97	244.00	249.04	0.001977	8.38	620.31	228.17	0.46
Tripps Run	1	12106	PK 100	5663.00	235.83	249.53	244.85	250.62	0.001703	8.55	772.77	243.62	0.44
Tripps Run	1	12106	PK 500	7200.00	235.83	250.60	246.10	252.01	0.001983	9.79	884.22	301.72	0.48
Tripps Run	1	11973	PK 10	3301.00	235.07	244.53	241.72	245.52	0.002712	8.02	419.53	172.42	0.52
Tripps Run	1	11973	PK 50	4694.00	235.07	247.91	243.14	248.75	0.001458	7.53	728.45	286.89	0.40
Tripps Run	1	11973	PK 100	5663.00	235.07	249.48	243.98	250.36	0.001290	7.75	887.03	317.04	0.39
Tripps Run	1	11973	PK 500	7200.00	235.07	250.56	245.50	251.70	0.001532	8.93	1011.35	365.90	0.43
Tripps Run	1	11868	PK 10	3301.00	233.08	244.57	238.69	245.00	0.001971	5.26	645.91	92.05	0.29
Tripps Run	1	11868	PK 50	4694.00	233.08	247.99	240.04	248.38	0.001274	5.15	1081.22	183.02	0.25
Tripps Run	1	11868	PK 100	5663.00	233.08	249.61	240.87	249.97	0.001111	5.19	1386.50	521.60	0.24
Tripps Run	1	11868	PK 500	7200.00	233.08	250.77	242.04	251.19	0.001215	5.71	1722.56	666.70	0.25
Tripps Run	1	11807 Annandale Road	Bridge										
Tripps Run	1	11749	PK 10	3301.00	232.31	243.24	239.67	243.97	0.004522	6.85	485.83	69.45	0.45
Tripps Run	1	11749	PK 50	4694.00	232.31	244.83	241.07	245.78	0.004766	7.87	628.16	167.00	0.47
Tripps Run	1	11749	PK 100	5663.00	232.31	245.85	241.92	246.88	0.004575	8.30	752.89	199.36	0.47
Tripps Run	1	11749	PK 500	7200.00	232.31	247.27	243.13	248.37	0.004244	8.75	946.90	365.92	0.46
Tripps Run	1	11570	PK 10	3301.00	231.43	241.93	239.78	243.00	0.005258	8.37	422.29	134.09	0.56
Tripps Run	1	11570	PK 50	4694.00	231.43	243.56	241.29	244.82	0.004895	9.28	562.41	354.22	0.56
Tripps Run	1	11570	PK 100	5663.00	231.43	244.59	242.13	245.96	0.004645	9.75	652.91	397.03	0.55
Tripps Run	1	11570	PK 500	7200.00	231.43	245.73	243.33	247.39	0.004917	10.81	753.30	474.91	0.58
Tripps Run	1	11353	PK 10	3301.00	230.35	239.63	238.09	241.18	0.014333	9.98	330.73	55.02	0.72
Tripps Run	1	11353	PK 50	4694.00	230.35	240.84	239.72	242.96	0.016337	11.70	407.89	215.02	0.78
Tripps Run	1	11353	PK 100	5663.00	230.35	241.07	240.75	243.94	0.021280	13.63	427.68	237.99	0.90
Tripps Run	1	11353	PK 500	7200.00	230.35	242.28	242.28	245.37	0.019068	14.33	539.95	369.02	0.87
Tripps Run	1	11210	PK 10	3301.00	229.41	238.95	236.75	239.74	0.005602	8.18	538.27	205.48	0.49
Tripps Run	1	11210	PK 50	4694.00	229.41	240.20	237.92	241.23	0.006586	9.71	770.03	434.24	0.55
Tripps Run	1	11210	PK 100	5663.00	229.41	240.98	238.66	241.92	0.005830	9.61	939.66	497.57	0.52
Tripps Run	1	11210	PK 500	7200.00	229.41	242.07	240.76	242.95	0.005124	9.62	1175.34	571.03	0.50
Tripps Run	1	11032	PK 10	3301.00	228.28	237.96	235.92	238.74	0.005528	8.08	504.05	236.21	0.49
Tripps Run	1	11032	PK 50	4694.00	228.28	239.23	237.02	240.10	0.005583	8.91	706.05	323.85	0.50
Tripps Run	1	11032	PK 100	5663.00	228.28	240.03	237.78	240.90	0.005377	9.20	849.18	353.65	0.50
Tripps Run	1	11032	PK 500	7200.00	228.28	241.17	239.18	242.05	0.004997	9.50	1083.42	428.08	0.49
Tripps Run	1	10853	PK 10	3301.00	227.15	235.43	235.13	237.06	0.015441	11.41	352.44	94.83	0.77
Tripps Run	1	10853	PK 50	4694.00	227.15	236.96	236.32	238.55	0.012312	11.66	516.53	189.99	0.71
Tripps Run	1	10853	PK 100	5663.00	227.15	238.11	237.03	239.53	0.009744	11.31	667.61	245.50	0.65

HEC-RAS Plan: S3\_07232020 Locations: User Defined (Continued)

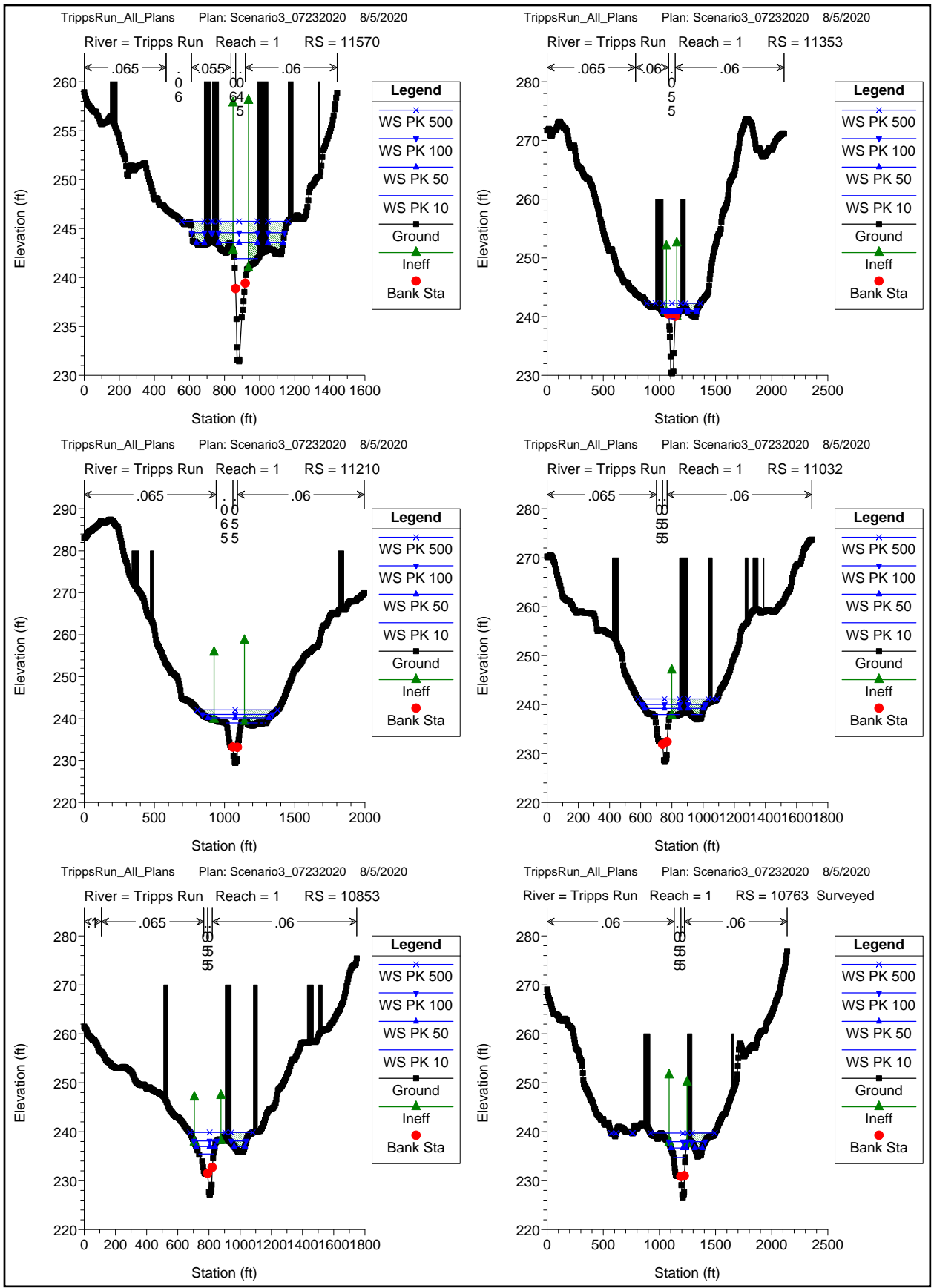
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	10853	PK 500	7200.00	227.15	239.87	237.95	240.98	0.006410	10.27	962.73	364.83	0.54
Tripps Run	1	10763	PK 10	3301.00	226.58	234.73	233.92	235.76	0.010245	9.32	434.22	104.35	0.63
Tripps Run	1	10763	PK 50	4694.00	226.58	236.69	234.82	237.56	0.006321	8.67	666.39	200.84	0.52
Tripps Run	1	10763	PK 100	5663.00	226.58	237.96	235.41	238.74	0.004854	8.32	855.62	282.15	0.46
Tripps Run	1	10763	PK 500	7200.00	226.58	239.74	236.31	240.43	0.003498	7.88	1140.35	587.21	0.40
Tripps Run	1	10563	PK 10	3301.00	225.70	234.33	231.59	234.61	0.002421	4.92	810.35	169.70	0.32
Tripps Run	1	10563	PK 50	4694.00	225.70	236.49	232.26	236.77	0.001643	4.79	1158.11	274.55	0.27
Tripps Run	1	10563	PK 100	5663.00	225.70	237.82	232.67	238.09	0.001359	4.75	1393.26	438.85	0.25
Tripps Run	1	10563	PK 500	7200.00	225.70	239.63	233.28	239.92	0.001143	4.82	1714.98	506.32	0.24
Tripps Run	1	10398	PK 10	3301.00	224.96	234.17	230.50	234.30	0.001204	2.85	1131.26	208.20	0.20
Tripps Run	1	10398	PK 50	4694.00	224.96	236.42	231.04	236.55	0.000806	2.84	1595.85	241.02	0.17
Tripps Run	1	10398	PK 100	5663.00	224.96	237.76	231.38	237.91	0.000690	2.89	1891.06	276.50	0.16
Tripps Run	1	10398	PK 500	7200.00	224.96	239.60	231.88	239.75	0.000600	3.02	2299.31	393.21	0.16
Tripps Run	1	10277	PK 10	3301.00	224.43	234.06	229.78	234.18	0.000919	2.75	1213.50	219.16	0.18
Tripps Run	1	10277	PK 50	4694.00	224.43	236.34	230.31	236.46	0.000676	2.81	1678.68	272.60	0.16
Tripps Run	1	10277	PK 100	5663.00	224.43	237.69	230.66	237.83	0.000594	2.88	1967.82	297.99	0.15
Tripps Run	1	10277	PK 500	7200.00	224.43	239.54	231.18	239.68	0.000531	3.01	2407.22	334.62	0.15
Tripps Run	1	10170	PK 10	3301.00	225.08	234.00	229.34	234.09	0.000686	2.56	1320.32	234.78	0.17
Tripps Run	1	10170	PK 50	4694.00	225.08	236.29	229.87	236.40	0.000520	2.68	1782.16	274.65	0.15
Tripps Run	1	10170	PK 100	5663.00	225.08	237.65	230.23	237.77	0.000472	2.79	2055.98	328.14	0.15
Tripps Run	1	10170	PK 500	7200.00	225.08	239.50	230.73	239.63	0.000441	3.00	2426.63	389.88	0.15
Tripps Run	1	10099	PK 10	3301.00	224.36	233.95	229.01	234.05	0.000577	2.74	1375.19	225.79	0.17
Tripps Run	1	10099	PK 50	4694.00	224.36	236.26	229.55	236.36	0.000449	2.84	1911.36	372.40	0.15
Tripps Run	1	10099	PK 100	5663.00	224.36	237.63	229.90	237.74	0.000403	2.91	2241.94	412.32	0.15
Tripps Run	1	10099	PK 500	7200.00	224.36	239.48	230.42	239.60	0.000371	3.07	2689.00	497.48	0.14
Tripps Run	1	9982	PK 10	3301.00	223.12	233.91	228.27	233.99	0.000420	2.57	1538.52	277.20	0.15
Tripps Run	1	9982	PK 50	4694.00	223.12	236.23	228.83	236.32	0.000330	2.62	2203.20	416.53	0.13
Tripps Run	1	9982	PK 100	5663.00	223.12	237.61	229.18	237.69	0.000297	2.67	2600.17	445.57	0.13
Tripps Run	1	9982	PK 500	7200.00	223.12	239.46	229.71	239.56	0.000273	2.80	3136.42	478.13	0.13
Tripps Run	1	9727	PK 10	3777.00	220.43	232.71	228.71	233.64	0.003877	8.06	583.99	96.54	0.44
Tripps Run	1	9727	PK 50	5410.00	220.43	234.99	230.60	236.01	0.003530	8.75	869.42	183.70	0.43
Tripps Run	1	9727	PK 100	6740.00	220.43	236.29	231.93	237.39	0.003527	9.32	1067.76	317.78	0.44
Tripps Run	1	9727	PK 500	8400.00	220.43	238.25	233.86	239.28	0.002954	9.30	1419.23	423.85	0.41
Tripps Run	1	9454	PK 10	3777.00	219.53	231.88	228.03	232.57	0.003398	7.03	755.53	381.89	0.40
Tripps Run	1	9454	PK 50	5410.00	219.53	234.50	229.65	235.07	0.002352	6.86	1283.43	537.64	0.35
Tripps Run	1	9454	PK 100	6740.00	219.53	235.86	231.37	236.45	0.002217	7.15	1587.91	570.03	0.34

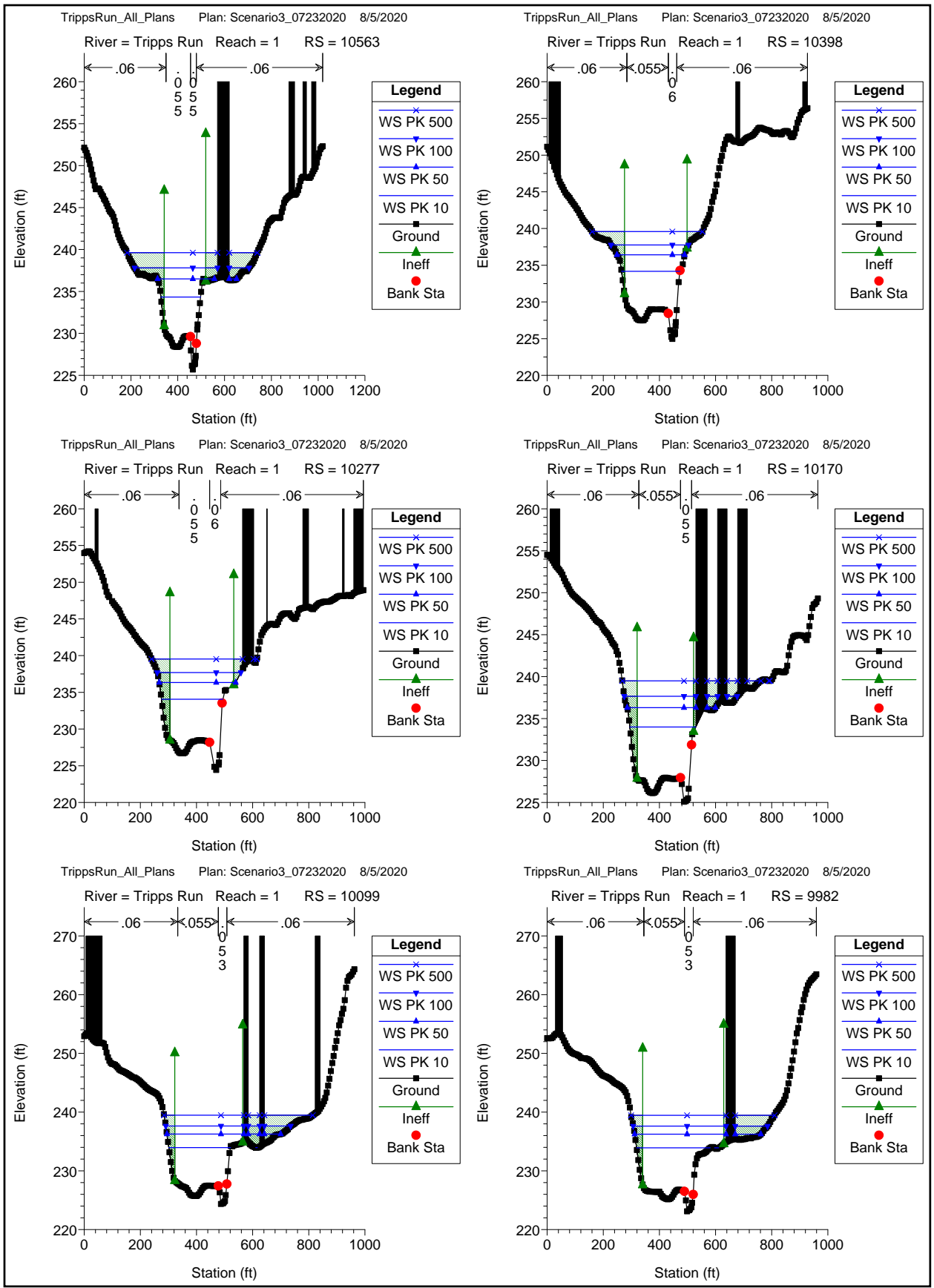
HEC-RAS Plan: S3\_07232020 Locations: User Defined (Continued)

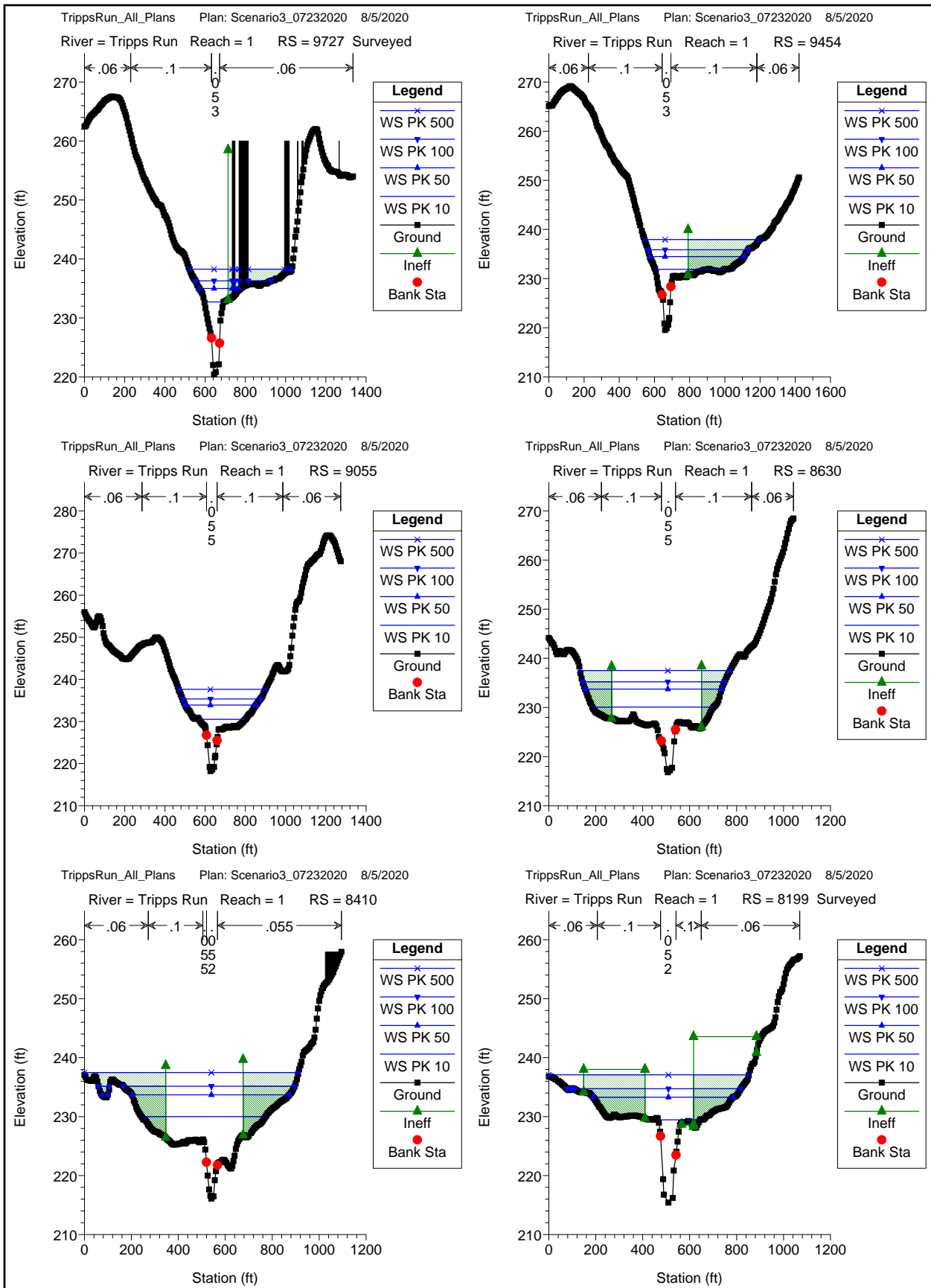
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Tripps Run	1	9454	PK 500	8400.00	219.53	237.96	232.49	238.49	0.001769	7.03	2085.79	652.76	0.31
Tripps Run	1	9055	PK 10	3777.00	218.22	230.52		231.18	0.003501	6.86	794.85	230.07	0.39
Tripps Run	1	9055	PK 50	5410.00	218.22	233.89		234.24	0.001543	5.59	1817.39	351.66	0.28
Tripps Run	1	9055	PK 100	6740.00	218.22	235.35		235.68	0.001359	5.63	2357.19	387.20	0.26
Tripps Run	1	9055	PK 500	8400.00	218.22	237.64		237.89	0.000959	5.23	3295.04	431.41	0.23
Tripps Run	1	8630	PK 10	3777.00	216.82	230.08	224.78	230.26	0.001115	4.13	1711.19	517.27	0.23
Tripps Run	1	8630	PK 50	5410.00	216.82	233.74	226.32	233.84	0.000463	3.26	3114.88	582.46	0.15
Tripps Run	1	8630	PK 100	6740.00	216.82	235.21	228.19	235.31	0.000442	3.41	3675.81	605.19	0.15
Tripps Run	1	8630	PK 500	8400.00	216.82	237.51	228.92	237.60	0.000359	3.37	4558.88	639.35	0.14
Tripps Run	1	8410	PK 10	3777.00	216.10	230.00	224.21	230.08	0.000449	2.99	2022.42	527.84	0.16
Tripps Run	1	8410	PK 50	5410.00	216.10	233.69	225.11	233.76	0.000231	2.59	3241.20	696.52	0.12
Tripps Run	1	8410	PK 100	6740.00	216.10	235.16	225.87	235.23	0.000234	2.77	3723.28	777.30	0.12
Tripps Run	1	8410	PK 500	8400.00	216.10	237.47	227.08	237.54	0.000204	2.82	4485.03	911.58	0.11
Tripps Run	1	8199	PK 10	3777.00	215.41	229.45	222.50	229.84	0.001408	5.07	828.53	179.40	0.27
Tripps Run	1	8199	PK 50	5410.00	215.41	233.30	224.04	233.61	0.000828	4.73	1619.90	598.03	0.22
Tripps Run	1	8199	PK 100	6740.00	215.41	234.72	225.09	235.07	0.000862	5.13	1933.73	729.30	0.22
Tripps Run	1	8199	PK 500	8400.00	215.41	237.10	226.28	237.40	0.000699	5.06	2679.73	852.60	0.21
Tripps Run	1	8159	Sleepy Hollow Ro	Bridge									
Tripps Run	1	8103	PK 10	3777.00	215.96	226.28	222.96	226.96	0.003806	6.71	606.02	95.58	0.42
Tripps Run	1	8103	PK 50	5410.00	215.96	227.87	224.23	228.78	0.004034	7.82	764.96	105.32	0.45
Tripps Run	1	8103	PK 100	6740.00	215.96	228.93	225.15	230.03	0.004261	8.64	886.87	180.12	0.47
Tripps Run	1	8103	PK 500	8400.00	215.96	229.75	226.20	231.16	0.005003	9.85	1039.88	354.52	0.52
Tripps Run	1	7960	PK 10	3777.00	214.96	225.16	222.43	226.18	0.005917	8.16	475.95	75.20	0.52
Tripps Run	1	7960	PK 50	5410.00	214.96	226.26	223.92	227.81	0.007544	10.09	568.17	123.30	0.60
Tripps Run	1	7960	PK 100	6740.00	214.96	227.03	224.99	228.95	0.008472	11.32	723.02	262.08	0.65
Tripps Run	1	7960	PK 500	8400.00	214.96	228.05	226.65	230.07	0.008270	11.97	1003.51	288.90	0.65

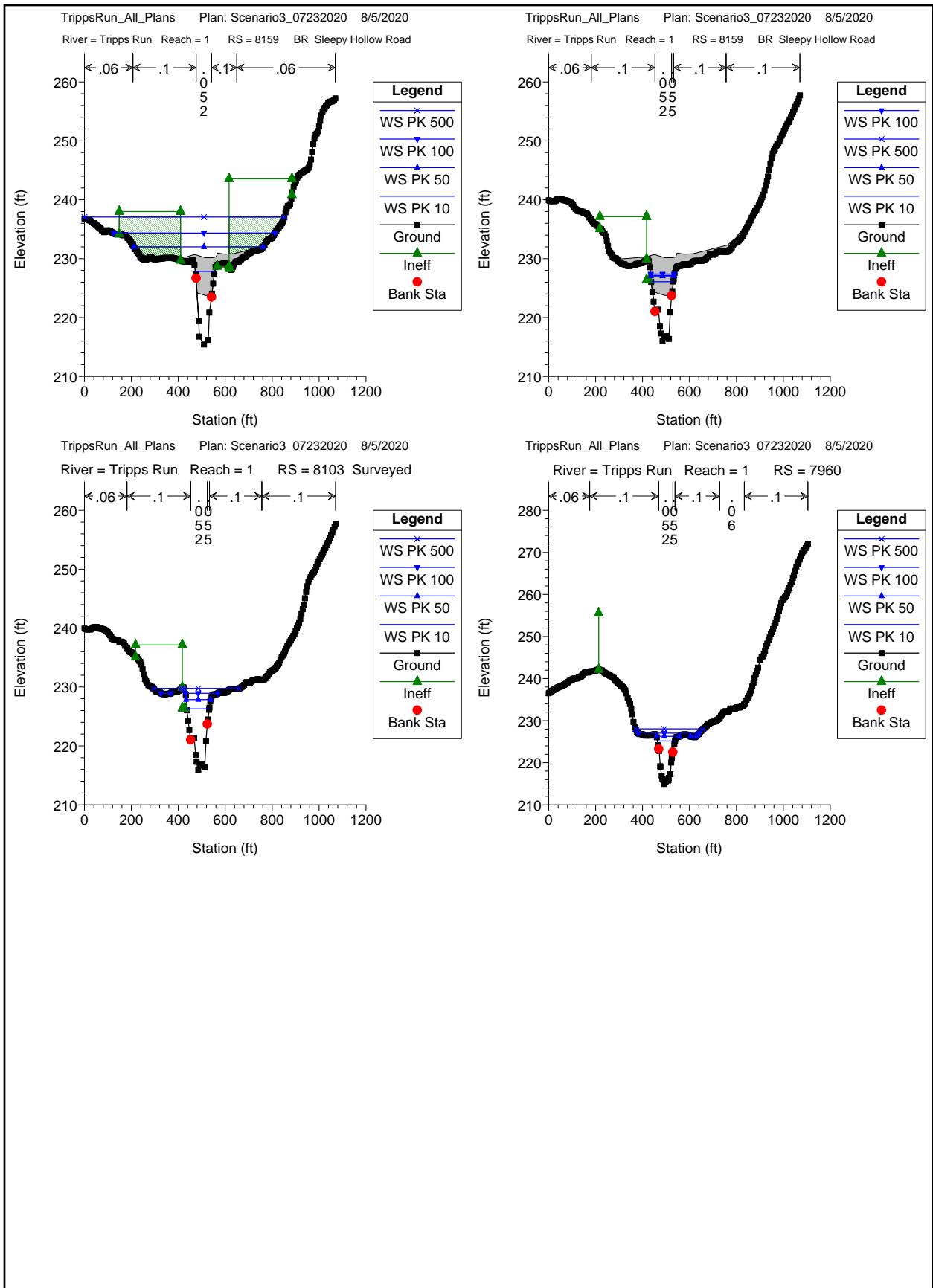






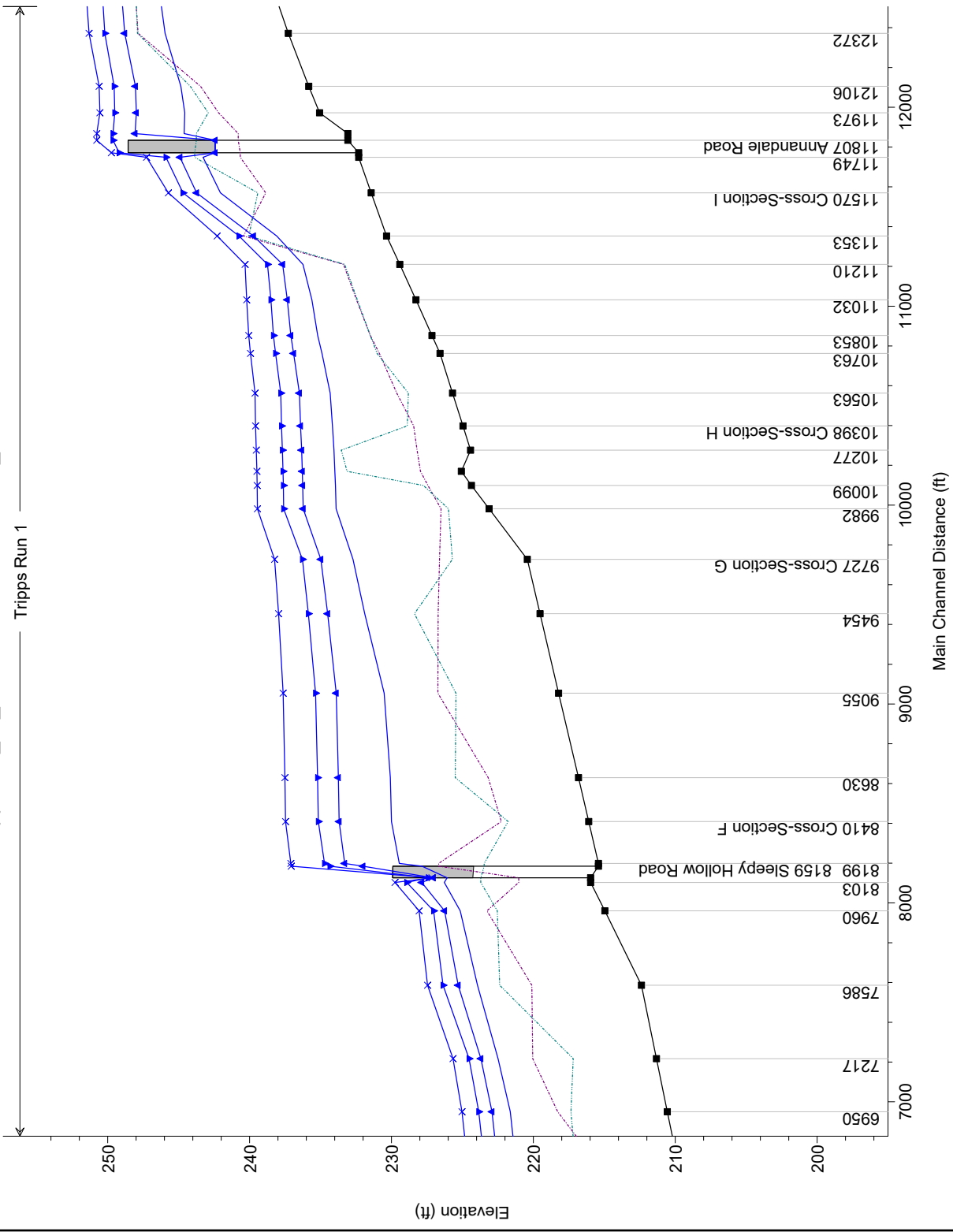
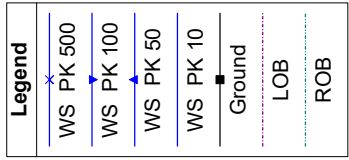






TripplsRun\_All\_Plans Plan: Scenario4\_07232020 8/5/2020

Trippls Run 1



River	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 (sqft)	Top Width (ft)	Froude # Chl
Tripps Run	1	12106	PK 10	3301.00	235.83	244.84	242.53	246.02	0.003487	8.69	382.21	59.51	0.58
Tripps Run	1	12106	PK 50	4694.00	235.83	248.05	244.00	249.10	0.001922	8.30	627.81	228.85	0.46
Tripps Run	1	12106	PK 100	5663.00	235.83	249.55	244.85	250.63	0.001691	8.53	775.09	243.90	0.44
Tripps Run	1	12106	PK 500	7200.00	235.83	250.61	246.10	252.01	0.001983	9.79	884.28	301.72	0.48
Tripps Run	1	11973	PK 10	3301.00	235.07	244.57	241.72	245.56	0.002655	7.97	422.62	187.05	0.51
Tripps Run	1	11973	PK 50	4694.00	235.07	247.99	243.14	248.81	0.001418	7.46	736.42	287.97	0.40
Tripps Run	1	11973	PK 100	5663.00	235.07	249.50	243.98	250.38	0.001281	7.73	889.50	317.37	0.39
Tripps Run	1	11973	PK 500	7200.00	235.07	250.56	245.50	251.70	0.001532	8.93	1011.45	365.91	0.43
Tripps Run	1	11868	PK 10	3301.00	233.08	244.62	238.69	245.04	0.001937	5.23	650.38	92.85	0.29
Tripps Run	1	11868	PK 50	4694.00	233.08	248.07	240.04	248.46	0.001239	5.10	1095.15	190.30	0.25
Tripps Run	1	11868	PK 100	5663.00	233.08	249.63	240.87	249.99	0.001102	5.18	1392.00	523.29	0.24
Tripps Run	1	11868	PK 500	7200.00	233.08	250.77	242.04	251.19	0.001215	5.71	1722.78	666.75	0.25
Tripps Run	1	11807 Annandale Road	Bridge										
Tripps Run	1	11749	PK 10	3301.00	232.31	243.29	239.67	244.00	0.004444	6.81	488.86	69.64	0.44
Tripps Run	1	11749	PK 50	4694.00	232.31	244.91	241.07	245.84	0.004620	7.79	636.75	168.32	0.46
Tripps Run	1	11749	PK 100	5663.00	232.31	245.90	241.92	246.92	0.004481	8.24	759.77	199.53	0.47
Tripps Run	1	11749	PK 500	7200.00	232.31	247.26	243.13	248.37	0.004245	8.75	946.77	365.80	0.46
Tripps Run	1	11570	PK 10	3301.00	231.43	242.06	239.78	243.08	0.004929	8.20	432.63	134.63	0.54
Tripps Run	1	11570	PK 50	4694.00	231.43	243.74	241.29	244.94	0.004526	9.05	578.25	376.38	0.54
Tripps Run	1	11570	PK 100	5663.00	231.43	244.69	242.13	246.03	0.004458	9.62	662.16	398.86	0.54
Tripps Run	1	11570	PK 500	7200.00	231.43	245.73	243.33	247.39	0.004920	10.81	753.13	474.74	0.58
Tripps Run	1	11353	PK 10	3301.00	230.35	238.09	238.09	240.76	0.029110	13.12	251.63	47.03	1.00
Tripps Run	1	11353	PK 50	4694.00	230.35	239.72	239.72	242.76	0.027831	13.98	335.80	55.45	1.00
Tripps Run	1	11353	PK 100	5663.00	230.35	240.75	240.75	243.93	0.025003	14.32	400.33	195.19	0.97
Tripps Run	1	11353	PK 500	7200.00	230.35	242.29	242.29	245.37	0.019056	14.32	540.25	369.26	0.87
Tripps Run	1	11210	PK 10	3301.00	229.41	236.24	235.14	236.76	0.006652	6.89	615.26	215.53	0.51
Tripps Run	1	11210	PK 50	4694.00	229.41	237.67	235.75	238.17	0.004695	6.71	865.94	227.39	0.44
Tripps Run	1	11210	PK 100	5663.00	229.41	238.74	236.14	239.23	0.003661	6.50	1059.73	238.30	0.40
Tripps Run	1	11210	PK 500	7200.00	229.41	240.32	236.70	240.81	0.002874	6.47	1455.84	447.03	0.36
Tripps Run	1	11032	PK 10	3301.00	228.28	235.61	233.95	235.87	0.003441	5.07	851.45	235.98	0.36
Tripps Run	1	11032	PK 50	4694.00	228.28	237.34	234.45	237.57	0.002065	4.64	1251.60	296.21	0.29
Tripps Run	1	11032	PK 100	5663.00	228.28	238.50	234.75	238.74	0.001666	4.58	1546.31	358.39	0.27
Tripps Run	1	11032	PK 500	7200.00	228.28	240.20	235.21	240.42	0.001194	4.35	2005.87	421.28	0.23
Tripps Run	1	10853	PK 10	3301.00	227.15	235.20	232.99	235.42	0.002453	4.55	920.51	218.08	0.31
Tripps Run	1	10853	PK 50	4694.00	227.15	237.09	233.53	237.30	0.001589	4.33	1362.27	315.35	0.26
Tripps Run	1	10853	PK 100	5663.00	227.15	238.32	233.87	238.51	0.001228	4.16	1685.60	341.71	0.23

HEC-RAS Plan: S4\_07232020 Locations: User Defined (Continued)

River	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
Tripps Run	1	10853	PK 500	7200.00	227.15	240.07	234.35	240.25	0.000927	4.03	2150.78	413.59	0.21
Tripps Run	1	10763	PK 10	3301.00	226.58	234.90	232.69	235.17	0.003089	5.21	853.68	195.53	0.35
Tripps Run	1	10763	PK 50	4694.00	226.58	236.90	233.30	237.14	0.001944	4.89	1274.40	282.86	0.29
Tripps Run	1	10763	PK 100	5663.00	226.58	238.17	233.69	238.39	0.001491	4.67	1571.80	330.86	0.26
Tripps Run	1	10763	PK 500	7200.00	226.58	239.94	234.24	240.16	0.001145	4.56	1994.77	658.87	0.23
Tripps Run	1	10563	PK 10	3301.00	225.70	234.32	231.59	234.60	0.002438	4.94	808.61	169.61	0.32
Tripps Run	1	10563	PK 50	4694.00	225.70	236.49	232.26	236.76	0.001629	4.77	1156.97	273.54	0.27
Tripps Run	1	10563	PK 100	5663.00	225.70	237.81	232.67	238.09	0.001363	4.75	1391.71	438.45	0.25
Tripps Run	1	10563	PK 500	7200.00	225.70	239.62	233.28	239.91	0.001147	4.82	1713.34	506.04	0.24
Tripps Run	1	10398	PK 10	3301.00	224.96	234.16	230.53	234.30	0.001153	3.25	1129.90	208.16	0.20
Tripps Run	1	10398	PK 50	4694.00	224.96	236.41	231.09	236.55	0.000791	3.18	1594.02	240.87	0.18
Tripps Run	1	10398	PK 100	5663.00	224.96	237.75	231.42	237.90	0.000682	3.21	1888.93	276.27	0.17
Tripps Run	1	10398	PK 500	7200.00	224.96	239.59	231.93	239.75	0.000594	3.31	2297.14	392.99	0.16
Tripps Run	1	10277	PK 10	3301.00	224.43	234.06	229.76	234.17	0.000901	2.72	1213.36	219.15	0.18
Tripps Run	1	10277	PK 50	4694.00	224.43	236.33	230.31	236.46	0.000664	2.79	1677.57	272.52	0.16
Tripps Run	1	10277	PK 100	5663.00	224.43	237.69	230.65	237.82	0.000584	2.85	1966.32	297.86	0.15
Tripps Run	1	10277	PK 500	7200.00	224.43	239.53	231.17	239.68	0.000522	2.99	2405.47	334.46	0.15
Tripps Run	1	10170	PK 10	3301.00	225.08	233.99	229.30	234.09	0.000720	2.32	1319.87	234.74	0.16
Tripps Run	1	10170	PK 50	4694.00	225.08	236.29	229.85	236.40	0.000543	2.44	1780.99	274.50	0.14
Tripps Run	1	10170	PK 100	5663.00	225.08	237.65	230.19	237.77	0.000493	2.55	2054.48	327.95	0.14
Tripps Run	1	10170	PK 500	7200.00	225.08	239.49	230.72	239.63	0.000460	2.74	2424.94	387.52	0.14
Tripps Run	1	10099	PK 10	3301.00	224.36	233.95	229.01	234.04	0.000577	2.74	1374.55	225.38	0.17
Tripps Run	1	10099	PK 50	4694.00	224.36	236.26	229.55	236.36	0.000449	2.83	1909.79	371.84	0.15
Tripps Run	1	10099	PK 100	5663.00	224.36	237.62	229.91	237.73	0.000403	2.91	2240.02	412.11	0.15
Tripps Run	1	10099	PK 500	7200.00	224.36	239.47	230.41	239.59	0.000371	3.06	2686.88	497.22	0.14
Tripps Run	1	9982	PK 10	3301.00	223.12	233.91	228.27	233.99	0.000422	2.57	1537.67	276.86	0.15
Tripps Run	1	9982	PK 50	4694.00	223.12	236.23	228.83	236.31	0.000332	2.63	2201.32	416.37	0.13
Tripps Run	1	9982	PK 100	5663.00	223.12	237.60	229.18	237.68	0.000299	2.68	2597.89	445.42	0.13
Tripps Run	1	9982	PK 500	7200.00	223.12	239.45	229.71	239.55	0.000275	2.80	3133.92	478.02	0.13
Tripps Run	1	9727	PK 10	3777.00	220.43	232.71	228.71	233.64	0.003881	8.06	583.67	96.35	0.44
Tripps Run	1	9727	PK 50	5410.00	220.43	234.98	230.60	236.00	0.003541	8.76	868.08	183.49	0.43
Tripps Run	1	9727	PK 100	6740.00	220.43	236.27	231.93	237.38	0.003541	9.34	1065.77	316.05	0.44
Tripps Run	1	9727	PK 500	8400.00	220.43	238.24	233.86	239.27	0.002965	9.32	1416.79	423.62	0.41
Tripps Run	1	9454	PK 10	3777.00	219.53	231.88	228.03	232.57	0.003398	7.03	755.57	382.02	0.40
Tripps Run	1	9454	PK 50	5410.00	219.53	234.50	229.65	235.07	0.002352	6.86	1283.51	537.65	0.35
Tripps Run	1	9454	PK 100	6740.00	219.53	235.86	231.37	236.45	0.002217	7.15	1588.00	570.04	0.34

HEC-RAS Plan: S4\_07232020 Locations: User Defined (Continued)

River	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
Tripps Run	1	9454	PK 500	8400.00	219.53	237.96	232.49	238.49	0.001769	7.03	2085.88	652.77	0.31
Tripps Run	1	9055	PK 10	3777.00	218.22	230.52		231.18	0.003501	6.86	794.85	230.07	0.39
Tripps Run	1	9055	PK 50	5410.00	218.22	233.89		234.24	0.001543	5.59	1817.39	351.66	0.28
Tripps Run	1	9055	PK 100	6740.00	218.22	235.35		235.68	0.001359	5.63	2357.19	387.20	0.26
Tripps Run	1	9055	PK 500	8400.00	218.22	237.64		237.89	0.000959	5.23	3295.04	431.41	0.23
Tripps Run	1	8630	PK 10	3777.00	216.82	230.08	224.78	230.26	0.001115	4.13	1711.19	517.27	0.23
Tripps Run	1	8630	PK 50	5410.00	216.82	233.74	226.32	233.84	0.000463	3.26	3114.88	582.46	0.15
Tripps Run	1	8630	PK 100	6740.00	216.82	235.21	228.19	235.31	0.000442	3.41	3675.81	605.19	0.15
Tripps Run	1	8630	PK 500	8400.00	216.82	237.51	228.92	237.60	0.000359	3.37	4558.88	639.35	0.14
Tripps Run	1	8410	PK 10	3777.00	216.10	230.00	224.21	230.08	0.000449	2.99	2022.42	527.84	0.16
Tripps Run	1	8410	PK 50	5410.00	216.10	233.69	225.11	233.76	0.000231	2.59	3241.20	696.52	0.12
Tripps Run	1	8410	PK 100	6740.00	216.10	235.16	225.87	235.23	0.000234	2.77	3723.28	777.30	0.12
Tripps Run	1	8410	PK 500	8400.00	216.10	237.47	227.08	237.54	0.000204	2.82	4485.03	911.58	0.11
Tripps Run	1	8199	PK 10	3777.00	215.41	229.45	222.50	229.84	0.001408	5.07	828.53	179.40	0.27
Tripps Run	1	8199	PK 50	5410.00	215.41	233.30	224.04	233.61	0.000828	4.73	1619.90	598.03	0.22
Tripps Run	1	8199	PK 100	6740.00	215.41	234.72	225.09	235.07	0.000862	5.13	1933.73	729.30	0.22
Tripps Run	1	8199	PK 500	8400.00	215.41	237.10	226.28	237.40	0.000699	5.06	2679.73	852.60	0.21
Tripps Run	1	8159	Sleepy Hollow Ro	Bridge									
Tripps Run	1	8103	PK 10	3777.00	215.96	226.28	222.96	226.96	0.003806	6.71	606.02	95.58	0.42
Tripps Run	1	8103	PK 50	5410.00	215.96	227.87	224.23	228.78	0.004034	7.82	764.96	105.32	0.45
Tripps Run	1	8103	PK 100	6740.00	215.96	228.93	225.15	230.03	0.004261	8.64	886.87	180.12	0.47
Tripps Run	1	8103	PK 500	8400.00	215.96	229.75	226.20	231.16	0.005003	9.85	1039.88	354.52	0.52
Tripps Run	1	7960	PK 10	3777.00	214.96	225.16	222.43	226.18	0.005917	8.16	475.95	75.20	0.52
Tripps Run	1	7960	PK 50	5410.00	214.96	226.26	223.92	227.81	0.007544	10.09	568.17	123.30	0.60
Tripps Run	1	7960	PK 100	6740.00	214.96	227.03	224.99	228.95	0.008472	11.32	723.02	262.08	0.65
Tripps Run	1	7960	PK 500	8400.00	214.96	228.05	226.65	230.07	0.008270	11.97	1003.51	288.90	0.65



