

MDDP & DBPS Amendment

Eagleview El Paso County, Colorado

Prepared for:
Joe DesJardin
PT Eagleview LLC
1864 Woodmoor Drive, Suite 100
Monument, CO 80132

Prepared by:
Kimley-Horn and Associates, Inc.
2 North Nevada Avenue, Suite 900
Colorado Springs, Colorado 80903
(719) 453-0180
Contact: Kevin Kofford, P.E.

Project #: 196288000

PCD Filing No.: MDP232

Prepared: December 22, 2023

Kimley»Horn

CERTIFICATION

DESIGN ENGINEER'S STATEMENT

The attached MDDP & DBPS Amendment was prepared under my direction and supervision and are correct to the best of my knowledge and belief. Said hydraulic report has been prepared according to the criteria established by the County for drainage reports and said report is in conformity with the master plan of the drainage basin. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of this report.

SIGNATURE (Affix Seal): _____

Kevin Kofford, P.E.
Colorado P.E. No. 57234

Date

OWNER/DEVELOPER'S STATEMENT

I, the developer, have read and will comply with all of the requirements specified in this Drainage Report and Plan.

PT Eagleview LLC
Name of Developer

Authorized Signature Date

Joe DesJardin
Printed Name

Director of Entitlements
Title

1864 Woodmoor Drive Suite 100, Monument, CO 80132
Address

EL PASO COUNTY

Filed in accordance with the requirements of the Drainage Criteria Manual, Volumes 1 and 2, El Paso County Engineering Criteria Manual and Land Development Code as amended.

Joshua Palmer, P.E. Date
County Engineer/ ECM Administrator

Conditions:

TABLE OF CONTENTS

CERTIFICATION	2
TABLE OF CONTENTS	3
INTRODUCTION	4
DRAINAGE DESIGN CRITERIA.....	5
DBPS DRAINAGE RECOMMENDATIONS	7
HYDRAULIC ANALYSIS.....	8
PROPOSED AMENDMENTS TO RECOMMENDATIONS.....	9
THE FOUR STEP PROCESS	13
MAINTENANCE	13
FLOODPLAIN STATEMENT	14
WETLAND MITIGATION	14
GRADING AND EROSION CONTROL.....	14
DRAINAGE FEES AND REIMBURSABLE COSTS	14
CONCLUSION.....	17
REFERENCES	18

APPENDIX

- APPENDIX A: FIGURES
- APPENDIX B: HYDROLOGY
- APPENDIX C: HYDRAULICS
- APPENDIX D: DBPS EXCERPTS
- APPENDIX E: OPCC

INTRODUCTION

PURPOSE AND SCOPE

The purpose of this report is to serve as an MDDP and DBPS Amendment (“Amendment”) to the previously approved Falcon Drainage Basin Planning Study completed by Matrix Design Group, September 2015 (DBPS). Changes to the DBPS include the removal of the small drop structures for the entire length of reaches RWT054, RWT080, and RWT092, to be replaced with natural channel design measures in appropriate locations. Additionally, this DBPS Amendment defers the construction of Sub-Regional Pond 1 (SR1) to the County for construction at a later date. Lastly, this Amendment changes some of the costs for drainage improvements from County costs to developer costs in support of the proposed Eagleview development (“Project”) and thus amending the Falcon Drainage Basin, drainage fee.

GENERAL LOCATION AND DESCRIPTION

The Site is located approximately 4 miles northwest of Falcon, Colorado within Section 26, Township 12 South, Range 65 West of the 6th Principal Meridian, County of El Paso, State of Colorado (“the Site”). There are four identified reaches and one sub regional pond associated with this Amendment. All features are located on the Eagleview Project, a Site that comprises two parcels of land which are bound by Stapleton Estates Filing No. 1 on the west and south, Paint Brush Hills Filing No. 14 (PCD File No. SF2024) to the east, and the Rodgwick Subdivision and MFY Farm Subdivision to the north. Reaches RWT080 and RWT054 extend beyond the northern property of the Eagleview Site, RWT080 to the northwest and RWT054 to the northeast. This report intends to amend the full extent of these reaches beyond the Eagleview site. Table 1 below describes the general description and location of each feature as identified in the DBPS.

Table 1: General Description and Location of Affected Reaches

Reach/Feature	Description	Location
RWT094	South of SR1	Eagleview Site
SR1	Sub-Regional Pond	Eagleview Site
RWT080	Northwest of SR1	Extends ~1,815' beyond Eagleview Site
RWT092	Northeast of SR1	Eagleview Site
RWT054	Northeast of SR1	Extends ~1,650' beyond Eagleview Site

A vicinity map has been provided in the **Appendix** of this report. The project is within the Falcon Drainage Basin (CHWS1400), a part of the El Paso County Drainage Basin Fee Program, which is based on the total amount of impervious acres for the Site. The identified features are located within the West Tributary of the Falcon Drainage Basin. The watershed contains three natural streams and has an overall area of approximately 10.6 square miles at the confluence of Black Squirrel Creek. The headwaters of the watershed are made up of ponderosa pine forest, grassland on undeveloped land, and 2-to-5-acre rural residential lots.

The Eagleview Site is approximately 121 acres consisting of undeveloped land with native vegetation. Vegetation within the site is characterized primarily by prairie grasses along with some area of scrub brush and a limited occurrence of small oaks. The Site does not currently provide water quality or detention for the Project area. The existing land use is undeveloped vacant land.

There are no existing irrigation ditches on the Site. The Site is currently owned by PT Eagleview LLC and will be developed by PT Eagleview LLC.

According to NRCS soil mapping data, USCS Type B soils are the primary soil type within the site, indicating high levels of permeability. Soils present at the Site consist mainly of "Pring coarse sandy loam" which represent a moderate hazard for erosion. The Appendix contains detailed NRCS soil data. The existing topography consists of slopes ranging from 1% to 20%. The west tributary of the Falcon drainage basin runs from the northwest corner of the site to the southeast corner of the Site.

PREVIOUS REPORTS

The following is a complete list of the existing reports pertaining to the Eagleview site and corresponding area:

1. Falcon Drainage Basin Planning Study Selected Plan Report (DBPS), prepared by Matrix Design Group, September 2015. PCD File No. MP132.
2. Eagleview Preliminary Drainage Report (PDR), prepared by Kimley-Horn, October 28, 2022. PCD File No. SP216.
3. Eagleview Final Drainage Report (FDR), prepared by Kimley-Horn, under review.

DRAINAGE DESIGN CRITERIA

DEVELOPMENT CRITERIA REFERENCE

The proposed storm facilities are designed to be in compliance with the El Paso County "Drainage Criteria Manual", as revised in November 1991 and October 2023 with County adopted Chapter 6 and Section 3.2.1 of Chapter 13 of the City of Colorado Springs May 2014 Drainage Criteria Manual, Volume 1, ("the DCM").

the El Paso County "Engineering Criteria Manual", as revised in (move before DCM reference)

HYDROLOGIC CRITERIA

The existing conditions hydrology used for this report is unchanged from the approved Eagleview Preliminary Drainage Report (PDR), prepared by Kimley-Horn, October 28, 2022. PCD File No. SP216. A brief summary of the differences between the approved PDR and the Falcon DBPS is provided below:

The PDR hydrology model utilizes the NRCS Type II rainfall distribution, the cumulative depth for the 5-year storm is 2.7 inches and the cumulative depth for the 100-year storm is 4.6 inches. Per the DCM both Frontal and Thunderstorms were evaluated to determine the higher design flow. The comparative analysis between the two storms shows that the Frontal Storm produces a significantly higher flow rates therefore, this storm was used for the drainage design. The rainfall distribution for the Frontal Storm was selected as the dominant storm-type for this project. See **Table 2** below for the rainfall values.

Table 2: Colorado Springs Rainfall Depths

Storm Event	Duration (HRS)	
	1 HR	24 HR
5 Year	1.5	2.7
100 Year	2.52	4.6

It should be noted that the DBPS used a slightly lower cumulative depth for the 5-yr (2.6 inches) and used the same cumulative depth for the 100-year of (4.6 inches) because the DBPS used an areal reduction of 2% to the rainfall depths as the Falcon Watershed is slightly larger than 10 square miles. This areal reduction was not applied to the rainfall depths for this Site as the drainage area analyzed was smaller and didn't require an areal reduction. Refer to Tables 6-2 and 6-4 in Chapter 6 of the DCM for the frontal rainfall distribution curve and Colorado Springs rainfall depths data for the 5-year and 100-year design storm events utilized for the project.

The project model was compared to the DBPS model, and it generally reflects lower flows for the project site area. This is mainly due to using the Type II rainfall distribution curve versus the Type IIa rainfall distribution curve that the DBPS model used. Design point JWT080 in the DBPS model and design points J4 and P7 in the project models were used as critical points to compare the existing and proposed condition models. Routing of channelized flow was based on the Muskingum-Cunge method for all reaches for the existing and proposed model. This aligned with the methodology utilized in the DBPS models. Reference the approved Eagleview PDR hydrologic calculations included in the Appendix. Here is a brief summary of the difference in the flow between the DBPS and the hydrology approved in the Eagleview Preliminary Drainage Report:

Table 3: DBPS vs. Eagleview Preliminary Drainage

Location	5 YR	100 YR
JWT080 (DBPS Junction)	140 cfs	610 cfs
J4 (PDR Existing Conditions)	169 cfs	478 cfs
P7 (PDR Future Conditions)	174 cfs	490 cfs

provide the values and headers for comparison

HYDRAULIC CRITERIA

Applicable design methods were used to analyze the identified reaches which include the use of HEC-HMS and HEC-RAS models. Proposed amendments to the identified drainage features have been analyzed using the following hydraulic design parameters, in Table 3, consistent with the Mile High Flood Districts, Urban Drainage and Flood Control District Drainage Criteria Manuals (UDFCDCM), (Volumes 1, 2 and 3), prepared by Wright-McLaughlin Engineers, June 2001, with latest revisions.

Table 4

Locations that have higher Fr # need to be addressed with a footnote to the table (compare to County criteria), change the value, or design revisions.

MDDP & DBPS Amendment
Eagleview, El Paso County, CO

Table 4: Hydraulic Design Parameters for Natural Channels

Design Parameter	Design Value
Maximum 100-year depth outside of bankfull channel	5 ft
Roughness values	Per Table 8-5
Maximum 5-year velocity, main channel (within bankfull channel width) (ft/s)	5 ft/s
Maximum 100-year velocity, main channel (within bankfull channel width) (ft/s)	7 ft/s
Froude No., 5-year, main channel (within bankfull channel width)	0.7
Froude No., 100-year, main channel (within bankfull channel width)	0.8
Maximum shear stress, 100-year, main channel (within bankfull channel width)	1.2 lb/sf
Minimum bankfull capacity of bankfull channel (based on future development conditions)	70% of 2-year discharge or 10% of 100-yr discharge, whichever is greater
Minimum bankfull channel geometry	Per Table 8-2
Minimum bankfull channel width/depth ratio (Equation 8-3)	9
Minimum entrenchment ratio (Equation 8-4)	3
Maximum longitudinal slope of low flow channel (assuming unlined, unvegetated low flow channel)	0.2 percent
Bankfull channel sinuosity (Equation 8-5)	1.1 to 1.3
Maximum overbank side slope	4(H):1(V)
Maximum bankfull side slope	2.5(H):1(V)
Minimum radius of curvature	2.5 times top width

Roughly equivalent to a 1.5-year event based on extrapolation of regional data.

Revised to 0.4% based on Falcon DBPS recommendations.

DBPS DRAINAGE RECOMMENDATIONS

The DBPS made recommendations for reaches (RWT054), (RWT092), (RWT080), and (RWT094). The DBPS also identified a sub-regional dentition pond (SR1) to be constructed onsite at the confluence of RWT094, RWT092 and RWT 080 to provide water quality and flood attenuation.

The following is a description of the improvements identified within the DBPS for each reach or feature:

RWT094:

- Natural Channel Design - Five (5) riffle drops identified between SR1 and Property Line

SR1 (Sub Regional Pond 1):

- 11.03 AC-FT (100 YR) Sub Regional Pond
- Assumed as Non-Jurisdictional Dam
- Sized for the WQCV + 100 YR Detention Volume

RWT080:

- Small Drop Structures – Twenty-six (26) drops identified, eleven (11) within the Eagleview project limits

RWT092:

- Small Drop Structures - Two (2) drops identified between SR1 and Reach RWT054

RWT054:

- Small Drop Structures - Sixteen (16) drops identified

HYDRAULIC ANALYSIS

The hydraulic analysis performed was based on the HEC-RAS model created for the Falcon DBPS. The model was updated to more accurately represent the existing condition of the channel. A summary of the changes to the model are included below.

UPDATES TO THE DBPS MODEL

Due to a cross section at the confluence of RWT080 and RWT092, DBPS cross section 39+618.78 was removed and replaced with two new cross sections that straddle the new junction (39+666 and 39+542). The original DBPS model did not include any analysis for Reach RWT080, therefore nine (9) cross sections were added on Reach RWT080 to provide analysis for the reach. Manning's n values for parts of the channel were modified based on qualitative data; a more detailed discussion of Manning's n changes are provided below.

Manning's n Adjustments

Based on visual inspection, the velocity and Froude from the HEC-RAS modeling, of the Falcon DBPS, did not appear to match the channel stability of Falcon Creek as seen in the field. The reaches appear to function with more stability than the results of the DBPS imply in the initial DBPS HEC-RAS models. Additional field investigation was completed in an effort to evaluate Manning's n based on existing channel and vegetation conditions. Pictures were taken at each HEC-RAS cross section identified in the DBPS to assess vegetation type, height, and flow resistance. Pictures of each corresponding cross section have been included in **Appendix C**. Engineering judgement was used to revise the Manning's n by considering flow depth relative to vegetation type. As a result of this evaluation, Manning's n values in the RWT092 and RWT054 reach were increased to be closer to 0.1 for the channel bottom and 0.045 for the channel slopes based on the following factors:

- Vegetation is comprised mostly of willows and cattails about 4 to 6 feet in height.
- Flow depths are 4-feet or less.
- Willows and cattails are known to be highly resistant to flow until they are submerged.

Where flow depths are unable to submerge the vegetation, a Manning's n roughness of 0.08 to 0.1 is an acceptable range hydraulic modeling in areas with this type of vegetation.

A HEC-RAS model was completed for the existing conditions, using flow rates determined based on hydrologic analyses completed as a part of the Eagleview Subdivision PDR and the results of that study are presented therein. A full overview of the updated flows and Manning's n updates are included in the **Appendix C**. An abbreviated overview of the existing results from revised HEC-RAS modeling is provided in Table 4.

Table 4: Revised Falcon DBPS HEC-RAS Cross Sections

Revised Falcon DBPS HEC-RAS Cross Sections				
Cross Section	DBPS		Eagleview	
	Input	Output	Input	Output
Cross Section	100-yr Flow (cfs)	Froude No.	100-yr Flow (cfs)	Froude No.
Eagleview Site 40884.05	480	0.97	285	0.40
40418.78	480	0.91	285	0.49
40018.78	740	1.01	375	0.38
39618.78	740	1.04	478	0.56
39218.78	740	1.15	478	0.29
38818.78	740	1.03	478	0.55
38418.78	740	1.07	478	0.75
38018.78	740	1.06	502	0.82
37618.78	740	1.04	502	0.87

(not in compliance with Table 4)

As shown in Table 4, there are sections of the reaches that are not in compliance with the criteria. A full analysis of the cross sections is provided in Appendix C. An overview map of the DBPS cross sections are provided in Appendix A.

PROPOSED AMENDMENTS TO RECOMMENDATIONS

To mitigate the velocities and Froude numbers within the existing reaches, proposed improvements, alternative to those proposed in the Falcon DBPS are proposed to provide a stable, natural channel through the Site. Through a combination of riffle drops, check structures, and improved vegetation, the proposed improvements meet the design criteria for velocity and Froude. See Appendix C for proposed HEC-RAS results. The proposed improvements are based on the principle found in the El Paso County's Drainage Criteria Manual (DCM). Per Section 2.2.1 of the DCM "A stable channel reaches "equilibrium" over many years. Therefore, channel modifications should be minimal." A summary of the proposed changes in comparison to the DBPS improvements are included below and represented in the exhibit shown in Appendix A:

RWT094

Proposed Amendments to the DBPS

- This channel will remain unchanged from the DBPS designation of a natural reach.
- A combination of natural riprap riffle drops, coir matting and channel grading will be shown south of the proposed road (South Arroya Lane) due to the width of the channel in this section, approximately DBPS stations 37+600 to 38+800.
- Concrete check structures north of South Arroya Lane to the confluence of RWT094 with RWT080 and RWT092, approximately DBPS stations 38+800 to 39+600. Check

structures are proposed to be installed at grade in the existing channel to minimize disturbance and protect the channel by maintaining a three-foot maximum drop and a 0% longitudinal slope between structures. Refer to Appendix A for concrete check structure typical detail.

RWT094 is located south the confluence with RWT080 and RWT092 and flows south to the southern property line and beyond. The portion of RWT094 within the Eagleview property is approximately bounded by DBPS stations 37+600 to 39+600. It is divided into two sections, split by the proposed South Arroya Lane. The section north of the proposed roadway (approximately DBPS stations 37+600 to 38+800) has a narrower cross section and more closely resembles the cross section of reach RWT092 to the north. A total of five check structures are proposed in the northern section of this reach.

South of the proposed South Arroya Lane, the channel becomes much wider with shallower slopes (approximately DBPS stations 38+800 to 39+600). A total of four constructed riffles are proposed within this section of the reach. The drop heights of the constructed riffles range from 2.3 feet to 3 feet with 3% to 4% slopes. The channel sections outside of the riffles within this reach use the DBPS recommended stable channel slope of 0.40% to reduce the potential of erosion. For the riffle portion of the RWT094 reach, the 2-year flow of 77.5 cfs at design point P3 was used as the basis to size the low flow portion of the channel in this reach that will be regraded. This results in a 22 foot wide low flow channel. The Falcon DBPS states, "The crest width for a natural channel drop structure is the channel width associated with the low flow (bankfull) event as defined in the DCM update Section 3.1.1.1". Thus riprap protection is provided for only the low flow portion of the riffle. A full analysis of the riffle drop structures in included in **Appendix C**.

RWT092

Proposed Amendments to the DBPS

- Remove small grouted boulder drop structures and replace with concrete check structures. Check structures are proposed to be installed at grade in the existing channel to minimize disturbance and protect the channel by maintaining a three-foot maximum drop and a 0% longitudinal slope between structures. Refer to Appendix A for concrete check structure typical detail.

provide number in
DBPS

RWT092 is located between RWT054 and the sub regional detention pond SR1, approximately DBPS stations 39+600 to 40+150. A total of four check structures are proposed within this reach. The reach ends at the confluence with another smaller channel from the west. A proposed rock chute at this confluence will reduce the potential of erosion entering the reach.

RWT054

Proposed Amendments to the DBPS

- Remove small grouted boulder drop structures and replace with a concrete check structures at approximately DBPS station 40+300. Check structures are proposed to be installed at grade in the existing channel to minimize disturbance and protect the channel by maintaining a three-foot maximum drop and a 0% longitudinal slope between structures. Refer to Appendix A for concrete check structure typical detail.

RWT054 is located north of reach RWT092, approximately DBPS stations 40+150 to 41+000. A total of one check structure is proposed within this reach at approximately 40+300. Due to the denser vegetation, including fully grown willows, cattails, and ponderosa trees within the low flow channel, no improvements are proposed north of structure at 40+300. A discussion and justification of the Manning's n was previously provided.

While this DBPS Amendment does not include full analysis upstream of the Site on Reach RWT054, based on the on-site conditions observed and included in Appendix C, a similar approach to raising Manning's n values, due to the thick vegetation and planting north of the Site.

RWT080

provide number in
DBPS

is recommended?

Proposed Amendments to the DBPS

- No previous analysis for this reach was completed in the Falcon DBPS.
- A full spectrum detention facility is proposed along this reach. Design details will be provided in the Final Drainage Report for the Site.
- Remove small grouted boulder drop structures and replace with vegetation or willow plantings.

RWT080 is located west of RWT092. Based on the extent of existing vegetation on this reach, willow plantings are proposed as a channel improvement. During the 100 YR event, RWT080 experiences relatively low flow depths of approximately 1 foot, making willow plantings an ideal natural and less invasive solution for channel stability. This Amendment proposes to defer the construction of the 11.03 AC-FT (100 YR) Sub Regional Pond (SR-1). A 2.4 AC-FT full spectrum detention basin is proposed on the RWT080 reach in the northwest corner of the Eagleview site. The proposed pond will have two riprap rock chutes with stilling basins to address head cutting and to provide entrance into the proposed pond.

SR1 (SUB REGIONAL POND 1)

Proposed Amendments to the DBPS

identify the tributary area that the DBPS pond was accounting for and what the proposed pond will account for.

- Defer the construction of the 11.03 AC-FT (100 YR) sub regional pond SR1 to the County, as it is considered a County cost. A proposed drainage easement will be provided to cover the needed area for a future regional pond.
- The Site will be required to adhere to standard County drainage criteria and provide a separate full spectrum detention facility to release less than historic rates downstream of the property. This full spectrum detention facility design will be provided in the Final Drainage Report for the Site.

This DBPS proposed a 11.03 AC-FT (100 YR) Sub Regional Pond (SR-1) at RWT080 reach in the northwest corner of the Eagleview site. Although the construction of the sub regional pond will be deferred to the County for later construction, a proposed drainage easement will be provided to allow for adequate area to build the facility.

A preliminary design of the full spectrum detention pond design was completed as part of the approved Eagleview Preliminary Drainage Report. The design used Mile High Flood District's UD-Detention spreadsheet to preliminary design the pond outlet structure. Due to limitations present in the UD-Detention spreadsheet when large tributary areas are analyzed, the flows and volume entering the pond tend to be greater than those reported in the HEC-HMS model when analyzing similar storm events. To compensate for this, the UD-Detention spreadsheet was calibrated, based on area, to show a similar 100-year flow entering the pond which resulted in a lower inflow volume being shown in UD-detention. This is fully documented in the approved Eagleview Preliminary Drainage Report.

After calibration, the sub regional pond is estimated to have a volume of 17.2 ac-ft which is larger than the 11.03 ac-ft pond shown in the DBPS, for two reasons. First, the DBPS assumed a 0% on directly connected impervious surfaces, while the Eagleview Preliminary Drainage Report assumed 8.2%. Secondly, the reason for this discrepancy is the difference of water quality capture volume (WQCV) between the DBPS and the Eagleview model differed by approximately two ac-

(Note: Easement and value will be finalized with the FDR. Restrictions on the easement will also be needed and will be finalized with the FDR.)

PS Amendment
Baco County, CO

ft of storage. The percent imperviousness and the area tributary to the pond were the two factors main factors contributing to this discrepancy.

Preliminary grading was completed to provide sufficient room for the 17.2 ac-ft pond. The proposed drainage easement provided is based on this analysis and should provide sufficient room for construction of the sub regional pond by the County in the future.

Note that although the Sub Regional Pond is being deferred to the County for future construction, the proposed drainage easement is reimbursable. A value of \$50,000 per acre for land cost was taken from the Falcon DBPS and multiplied by 1.6 to a cost of \$80,000 per acre. The cost is shown in the Drainage Fees section of this proposal.

(accounting for
escalation since 2013)

CHECK STRUCTURES

Check Structures are a less invasive alternative to the traditional grouted riprap drops proposed by the DBPS. This Amendment proposes to use concrete check structures in place of these traditional drops to provide a less invasive and natural approach to channel stabilization. Check structures are described in Urban Storm Drainage Criteria Manual, Volume 2, Chapter 9, Section 2.9 as a useful solution for channels that have “not yet experienced significant erosion or degradation.” Based on the visual inspection described above and acceptable Froude values from the revised HEC-RAS modeling, check structures can accomplish the goals of the DBPS for these reaches to provide protection and reinforcement and prevent future degradation. The check structures allow for construction and protection of the channel in more sensitive areas with established vegetation by not requiring regrading of the channel bottom between drops and allows for the channel to reach a natural equilibrium longitudinal slope over time. It additionally holds the invert low flow of the channel in place during larger storm events and provides the benefits of reducing velocity and scour.

Check structure construction typically consists of filling an excavated narrow trench (12” minimum width) with reinforced concrete to a depth of six feet, in place. The structures are then backfilled to existing grade. The check structures are placed with a 3 foot vertical drop from the crest of the check to the projected downstream invert based on the estimated long-term equilibrium slope of 0%. Over time the channel finds the equilibrium between the check structures. Additional soil riprap protection downstream of the check structure will be provided to mitigate scour potential. A geotechnical analysis and recommendations will need to be provided at final design of the check structures to confirm structure depth is suitable and stable. A detail is provided in **Appendix A**.

The following assumptions were made for the purposes of this Amendment:

- An assumed 10 feet of riprap upstream of the check structure was provided, with 20 feet of riprap provided downstream to mitigate scour.
- Widths of the check structures were based on criteria set forth in Urban Storm Drainage Criteria Manual, Volume 2, Chapter 9, Section 2.9:
 - For the RWT094 reach this results in a 22 foot wide low flow channel. Based on the guidance given, the structure is extended laterally to contain the 10-yr flow and shall be no less than 2 feet above the top of the low-flow channel bank, resulting in a 42 foot wide check structure.
 - For the RWT092 and RWT052 reaches a 18 foot wide low flow channel. Based on the guidance given, the structure is extended laterally to contain the 10-yr flow and shall be no less than 2 feet above the top of the low-flow channel bank, resulting in a 38 foot wide check structure.

THE FOUR STEP PROCESS

The Project was designed in accordance with the four-step process to minimize adverse impacts of urbanization, as outlined in the El Paso County Engineering Manual for BMP selection as noted below:

Step 1. Employ Runoff Reduction Practices – The project is proposing a low-density residential development that will be designed to minimize the impact to the current existing terrain. The Site's proposed paved roadways will increase the Site's impervious area, however, roadside ditches and channels will be constructed to slow down the runoff velocity and reduce runoff peaks.

Update total value per my comment on the Overview Map
- PBMP Trib Areas about the northeastern cul-de-sac

Step 2. Implement BMPs That Provide a Water Quality Capture Volume with Slow Release – The sub regional detention pond and two water quality features will be used to capture stormwater, provide water quality treatment, and maintain flows discharging off site at or below historic levels. Water quality measures are being used for all stormwater that contacts roadways, excluding 0.39 acres which cannot practicably be treated. Per ECM Appendix I Section 1.7.C.A., 20% of the development site or less than 1 acre can be excluded from providing water quality. As mentioned, 0.39 acres of impervious area will not be able to be treated which is less than 1 acre of the overall site. Per ECM Appendix I Section 1.7.1.B, in development areas of low-density housing, water quality is required for all roads, but is not required for the entirety of the large-lots. Due to the Project consisting of single family large-lots, lot imperviousness shall be limited to 10 percent or less. Refer to **Appendix A** for PBMP Tributary Areas map.

Step 3 Stabilize Drainageways – The existing natural channels will be stabilized using the methods described in this Amendment. The design of the natural channels will meet the criteria set forth by the DCM.

Step 4. Implement Site Specific and Other Source Control BMPs – The erosion control construction BMPs of the Project were designed to reduce contamination. Source control BMPs include the use of vehicle tracking control, culvert protection, stockpile management, and stabilized staging areas.

MAINTENANCE

Maintenance access for the proposed channel improvements is provided by proposed maintenance roads adjacent to channels. Access for the RWT094 south of South Arroya Lane is provided by a maintenance road starting at the proposed Chemita Trail and ending at South Arroya Lane, near the 72 inch culvert crossing. Access for the northern portion of site to reaches RWT094, RWT092, and RWT054 will be accessed by a maintenance road starting on the north end of South Arroya Lane and ending at the cul-de-sac at the end of South Arroya Lane. Access to RWT080 will be accessed from a maintenance road starting at the cul-de-sac of Arroya Lane in the northwest corner of the site.

Once construction of the proposed channel improvements are completed, maintenance of the channel will be the responsibility of El Paso County, if applicable criteria are met. Ownership of all drainage facilities within public rights-of-way shall fall to El Paso County, pending Board of County Commissioners approval.

FLOODPLAIN STATEMENT

There is no FEMA mapped floodplain on the project site. Refer to **Appendix A** for the Flood Insurance Rate Map (FIRM) number 08041C05350G effective date, December 7, 2018.

WETLAND MITIGATION

The U.S. Army Corps of Engineers (USACE) provided an approved jurisdictional determination (AJD) for the wetlands present within the Eagleview site. The USACE AJD found that the wetlands within the site were isolated and not Waters of the U.S. (WOTUS); therefore impacts to these wetlands will not require permitting under Section 404 of the Clean Water Act. Furthermore, the wetlands onsite are unregulated and shall not incur any additional permitting requirements beyond the scope of El Paso County.

GRADING AND EROSION CONTROL

The Site will disturb more than 1 acre and will require a Colorado Discharge Permit System (CDPS) General Permit for Stormwater Discharge Associated with Construction Activities from the Colorado Department of Public Health and Environment (CDPHE). The proposed sub-regional detention pond will be non-jurisdictional and will therefore require the submission of a Non-Jurisdictional Water Impoundment Structure application form as a part of the platting process.

DRAINAGE FEES AND REIMBURSABLE COSTS

REIMBURSABLE COSTS

The Falcon Drainage Basin Study identifies two types improvements for the identified reaches and features, County Costs or Developer Costs. Items identified as Developer Costs (those incurred by the Developer) are eligible for reimbursement. County Costs are not eligible for reimbursement. Each reach and feature was classified in the DBPS as follows:

Table 6: Summary of Identified Costs per DBPS

Reach/Feature	Description	Type of Cost	Reimbursable
RWT094	South of SR1	Developer Cost	Yes
SR1	Sub-Regional Pond	County Cost	No
RWT080	Northwest of SR1	County Cost	No
RWT092	Northeast of SR1	County Cost	No

The developer intends to amend the DBPS to allow for the costs on reaches RWT080, RWT092 RWT054, and Sub-Regional Pond SR1 to become reimbursable by following the process outlined below:

1. Drainage reimbursement request application with PCD.
2. Amendment to the DBPS Memorandum requesting RWT080, RWT092 and Pond SR1 changed from a County Cost to Developer Cost
 - o Amendment request hearing to the Drainage Board and Board of County Commissioners
3. The subsequent Final Drainage Report associated with the Final Plat application will include the following:
 - o Channel analysis to determine the number of drop structures and locations needed to stabilize the channel/meet criteria.

- Provide cost estimates for the reimbursable improvements.
 - Drainage fee section would reference the BoCC resolution (if approved).
4. Once construction of the reimbursable facilities is completed, procedures for Drainage Improvement Credits and Reimbursements outlined in Chapter 3 of the Drainage Criteria Manual will be in effect.

DRAINAGE FEES

The costs per reach/ feature provided in DBPS were scaled by length of reach within the Project site to determine an estimate of improvement costs as shown below. Costs are shown are taken from the values in the DBPS on tables 6-4 and 6-10. Costs are based on 2013 costs shown in the DBPS.

Table 7: Scaled DBPS Costs within Eagleview Project Limits

DBPS Reach	UNIT	QUANITITY	UNIT COST	COST (2013)
RWT-094	LF	2,010	\$ 114.78	\$ 230,707.80
Engineering/Administration/Contingency	%	35%		\$ 80,747.73
TOTAL (DEVELOPER RESPONSIBLE REACHES/FEATURES)				\$311,455.53
RWT-080	LF	1680	\$ 671.19	\$ 1,127,599.00
RWT-092	LF	626	\$ 662.04	\$ 414,437.00
RWT-054	LF	784	\$ 566.49	\$ 444,128.00
Sub Regional Detention Pond SR1	LS	1	\$ 405,769	\$ 405,769.00
Engineering/Administration/Contingency	%	35%		\$ 837,176.55
TOTAL (COUNTY RESPONSIBLE REACHES/FEATURES)				\$ 3,229,109.55
TOTAL:				\$ 3,540,565.08

The identified reaches RWT080, RWT092, RWT054, and Sub Regional Pond SR1 are proposed to be amended within the Falcon DBPS to change from County Costs to Developer Costs and become reimbursable. A summary of the DBPS costs, proposed costs and total differences are provided in a table below. 2013 costs were brought to present value by a factor of 1.605 which was provided from the County and based on the percentage increases for the Drainage Basin Fees over the years.

**Table 8: Summary DBPS Costs vs. Proposed Costs
(Move to next page)**

DBPS Reach	DBPS COST (2013) W/ 35%	INFLATED DBPS COST(2023) (1.605 Factor)	PROPOSED COST(2023) W/ 35%	DIFFERENCE
RWT-094	\$311,456.00	\$499,887.00	\$469,342.00	(\$30,545.00)
Total Developer Cost:	\$311,456.00	\$499,887.00	\$469,342.00	(\$30,545.00)
RWT-080	\$1,522,259.00	\$2,443,226.00	\$46,778.00	(\$2,396,448.00)
RWT-092	\$559,490.00	\$897,981.00	\$200,367.00	(\$697,614.00)
RWT-054	\$599,573.00	\$962,315.00	\$61,700.00	(\$900,615.00)
Sub Regional Detention Pond (SR1)	\$547,788.00	\$879,200.00	\$1,044,598.00	\$165,398.00
Total County Cost:	\$3,229,110.00	\$5,182,722.00	\$1,353,443.00	(\$3,829,279.00)
Total:	\$3,540,566.00	\$5,682,609.00	\$1,822,785.00	(\$3,859,824.00)

The costs estimated by the DBPS for the reaches and features identified is **\$3,540,566.00** in 2013 dollars and **\$5,682,609.00** in 2023 dollars. The proposed County Costs of \$1,353,443.00 compared to the estimated \$5,182,722.00 estimated by the DBPS saved the County **\$3,289,279.00** in improvements. Costs are outlined in the Opinion of Probable Construction Cost as part of **Appendix E**.

Note that although the Sub Regional Pond is being deferred to the County for future construction, the proposed drainage easement is reimbursable. A value of \$50,000 per acre for land cost was taken from the Falcon DBPS and multiplied by 1.6 to a cost of \$80,000 per acre. The cost shown in this Amendment is the cost of the land reimbursement only and does not include any construction items.

The current 2023 Falcon Drainage Basin Fee is **\$37,256** per Impervious Acre. The remaining unplatte developable area within the Falcon Drainage Basin as determined by El Paso County as 1,433 total developable acres at an assumed average 29.2% imperviousness for a total of **418** acres.

The difference in actual proposed cost for RWT-094 (Developer Cost) and the inflated DBPS cost is less than the proposed amount, thus resulting in no additional drainage fee increase.

Should RWT080, RWT092, RWT054, and Sub Regional Pond SR1 be amended as Developer Costs, the estimated improvements of **\$1,353,443.00** would cause an increase of at least **\$3,238.00** per impervious acre. The final drainage basin fee will be determined by County Staff using the estimates provided.

Fees are deferred at plat recordation due to reimbursement expenses being greater than the required drainage fees. The final drainage basin fee will be determined by County Staff using the estimates provided.

CONCLUSION

This MDDP and DBPS Amendment to the previously approved Falcon Drainage Basin Planning Study completed by Matrix Design Group, September 2015 (DBPS) removes the small drop structures for the entire length of reaches RWT054, RWT080, and RWT092, to be replaced with natural channel design measures in appropriate locations. Additionally, this DBPS Amendment defers the construction of Sub-Regional Pond 1 (SR1) to the County for construction at a later date.

The proposed modifications and improvements would cause a change in the Drainage Basin Fee. The difference in actual proposed cost for RWT-094 (Developer Cost) and the inflated DBPS do not result in an increase of Drainage Basin Fees. Should RWT080, RWT092, RWT054, and Sub Regional Pond SR1 be amended as Developer Costs, the estimated improvements of **\$1,353,443.00** would cause an increase of at least **\$3,238.00** per impervious acre.

REFERENCES

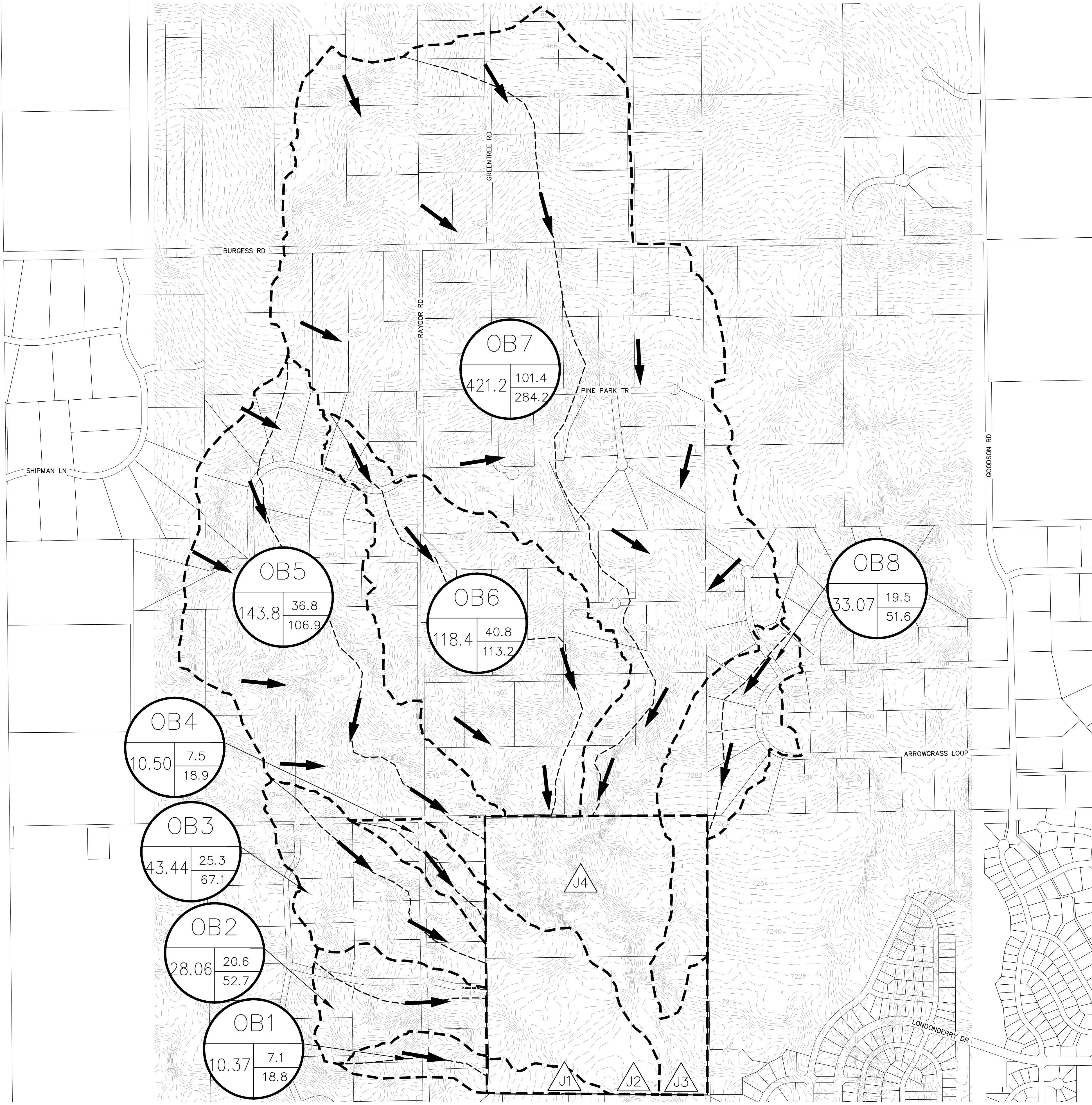
1. El Paso County Drainage Criteria Manual, as revised in November 1991 and October 2023 with County adopted Chapter 6 and Section 3.2.1 of Chapter 13 of the City of Colorado Springs May 2014 Drainage Criteria Manual, Volume 1
2. El Paso County "Engineering Criteria Manual" Volumes 1 & 2, dated October 31, 2018
3. Urban Drainage and Flood Control District Drainage Criteria Manuals (UDFCDCM), (Volumes 1, 2 and 3), prepared by Wright-McLaughlin Engineers, June 2001, with latest revisions.
4. Flood Insurance Rate Map, El Paso County, Colorado and Incorporated Areas, Map Number 08041C0507F and 08041C0530F, Effective Date March 17, 1997, prepared by the Federal Emergency Management Agency (FEMA).
5. Falcon Drainage Basin Planning Study Selected Plan Report (DBPS), prepared by Matrix Design Group, September 2015. PCD File No. MP132.
6. Eagleview Subdivision Preliminary Drainage Report (PDR), prepared by Kimley-Horn, October 28, 2022. PCD File No. SP216
7. Eagleview Subdivision Final Drainage Report (FDR), prepared by Kimley-Horn, under review.

MDDP & DBPS Amendment
Eagleview Subdivision, El Paso County, CO

APPENDIX

APPENDIX A: FIGURES

- Existing Conditions Drainage Map (Excerpt from PDR)
- Proposed Conditions Drainage Map (Excerpt from PDR)
- Proposed Conditions Drainage Map (Revised)
- Overall Drainage Improvements Exhibit (Revised)
- Stream Improvement Details



LEGEND

- DRAINAGE BASIN AREAS**
- A - HEC-HMS BASINS
B - BASIN ACREAGE
C - 5-YR RUNOFF
D - 100-YR RUNOFF
- DESIGN POINT**
- EXISTING CONTOURS**
- PROPERTY BOUNDARY**
- FLOW ARROW**
- FLOW PATH**
- PARCEL LINE**

HEC-HMS - EXISTING RUNOFF TABLE					
DESIGN POINT	BASIN DESIGNATION	BASIN AREA (ACRES)	DIRECT 5-YR RUNOFF (CFS)	DIRECT 100-YR RUNOFF (CFS)	CUMULATIVE DIRECT 5-YR RUNOFF (CFS)
J1	OB1	5.55	3.0	8.5	-
	B2	10.37	7.1	18.8	10.1
	OB2	41.43	15.4	48.5	-
	OB3	28.06	20.6	52.7	-
	OB4	43.44	25.3	67.1	-
J2	OB4	10.50	7.5	18.9	67.5
	OB5	143.82	36.8	106.9	-
	OB6	118.40	40.8	113.2	-
J4	OB7	33.07	19.5	51.6	169.2
	B3	421.43	101.4	284.2	478.0
	B4	59.54	36.4	110.0	-
J3	OB8	14.68	5.4	18.2	-
		33.07	19.5	51.6	183.1
					515.5

Kimley»Horn
2022 KMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

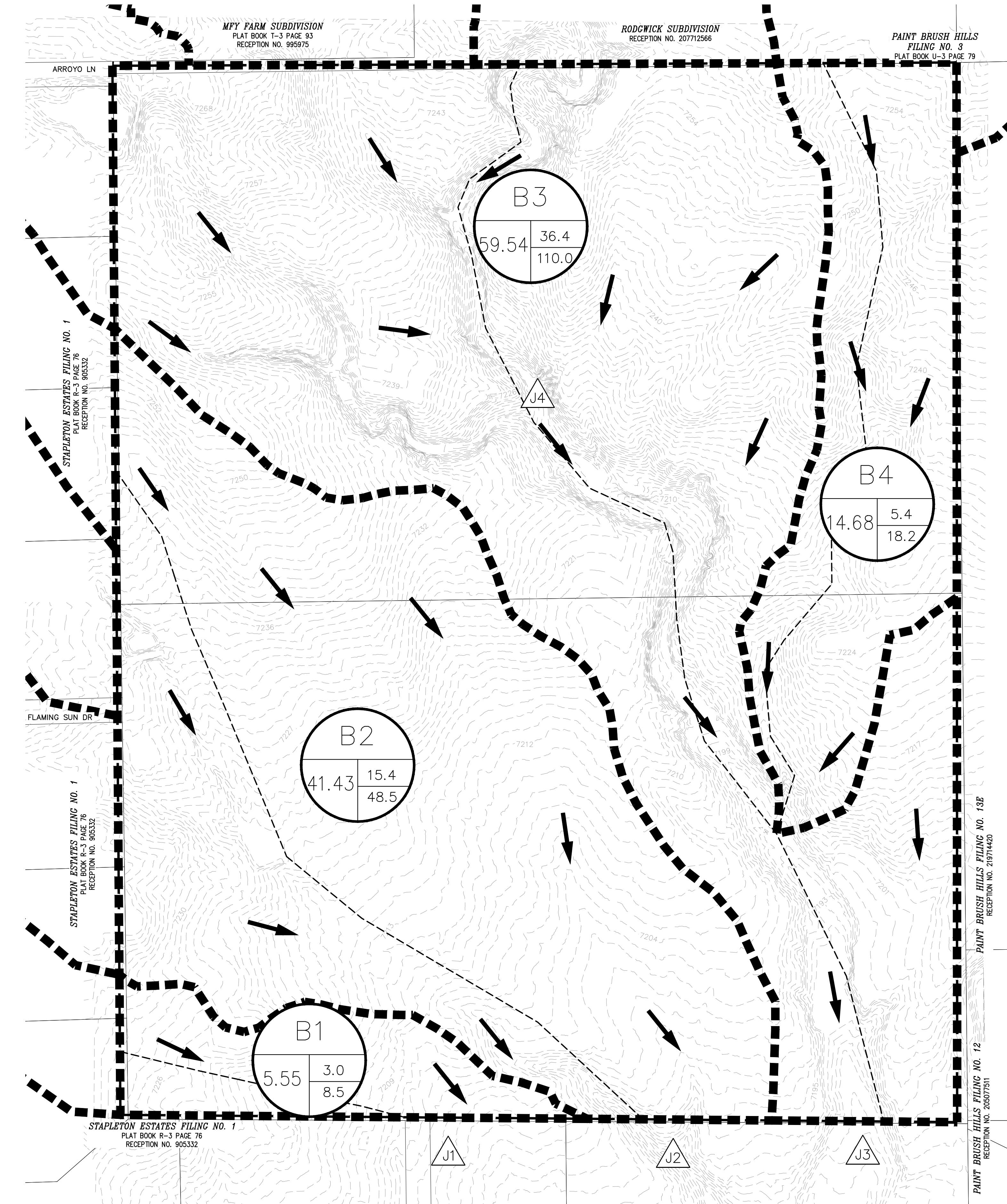
DESIGNED BY:	MK
DRAWN BY:	RS
CHECKED BY:	KK
DATE:	04/08/2022

**EAGLEVIEW
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT DRAINAGE MAP**

PRELIMINARY
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196288000
SHEET
1

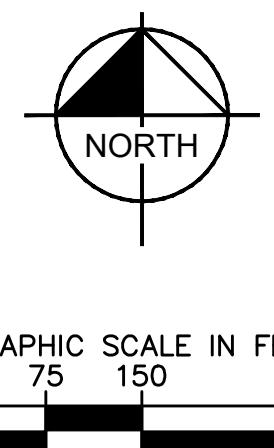
GRAPHIC SCALE IN FEET
0 250 500 1000



LEGEND

- DRAINAGE BASIN AREAS**
- A - HEC-HMS BASINS
B - BASIN ACREAGE
C - 5-YR RUNOFF
D - 100-YR RUNOFF
- DESIGN POINT
- EXISTING CONTOURS
- PROPERTY BOUNDARY
- FLOW ARROW
- FLOW PATH

HEC-HMS - EXISTING RUNOFF TABLE						
DESIGN POINT	BASIN DESIGNATION	BASIN AREA (ACRES)	DIRECT 5-YR RUNOFF (CFS)	DIRECT 100-YR RUNOFF (CFS)	CUMULATIVE DIRECT 5-YR RUNOFF (CFS)	CUMULATIVE DIRECT 100-YR RUNOFF (CFS)
	B1	5.55	3.0	8.5	-	-
J1	OB1	10.37	7.1	18.8	10.1	27.3
	B2	41.43	15.4	48.5	-	-
	OB2	28.06	20.6	52.7	-	-
	OB3	43.44	25.3	67.1	-	-
J2	OB4	10.50	7.5	18.9	67.5	183.8
	OB5	143.82	36.8	106.9	-	-
	OB6	118.40	40.8	113.2	-	-
J4	OB7	421.43	101.4	284.2	169.2	478.0
	B3	59.54	36.4	110.0	-	-
	B4	14.68	5.4	18.2	-	-
J3	OB8	33.07	19.5	51.6	183.1	515.5



GRAPHIC SCALE IN FEET
0 75 150 300

PRELIMINARY
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196288000

SHEET

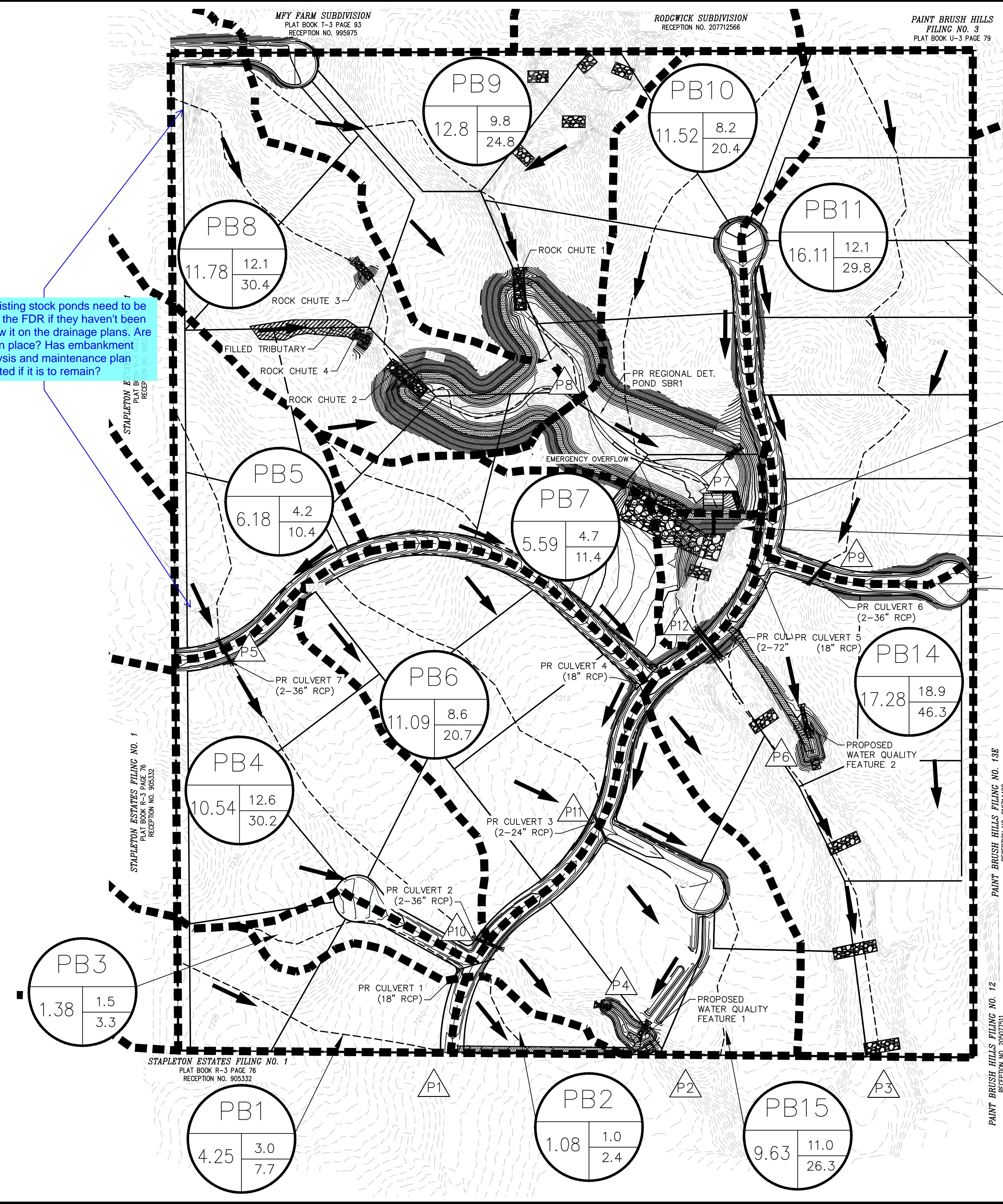
2

Kimley»Horn

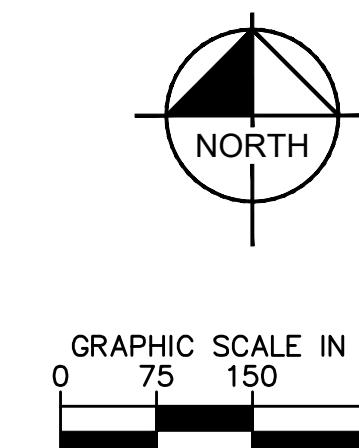
2022 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

EAGLEVIEV
EL PASO COUNTY, COLORADO
PRE DEVELOPMENT DRAINAGE MAP

Note: The existing stock ponds need to be addressed in the FDR if they haven't been already. Show it on the drainage plans. Are water rights in place? Has embankment stability analysis and maintenance plan been completed if it is to remain?



NOTES:
1. LOCATION OF DROP STRUCTURES IS APPROXIMATE AND WILL BE FINALIZED IN THE FINAL DRAINAGE REPORT.



PRELIMINARY
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
Kimley-Horn
Kimley-Horn and Associates, Inc.
PROJECT NO.
196288000
SHEET
3

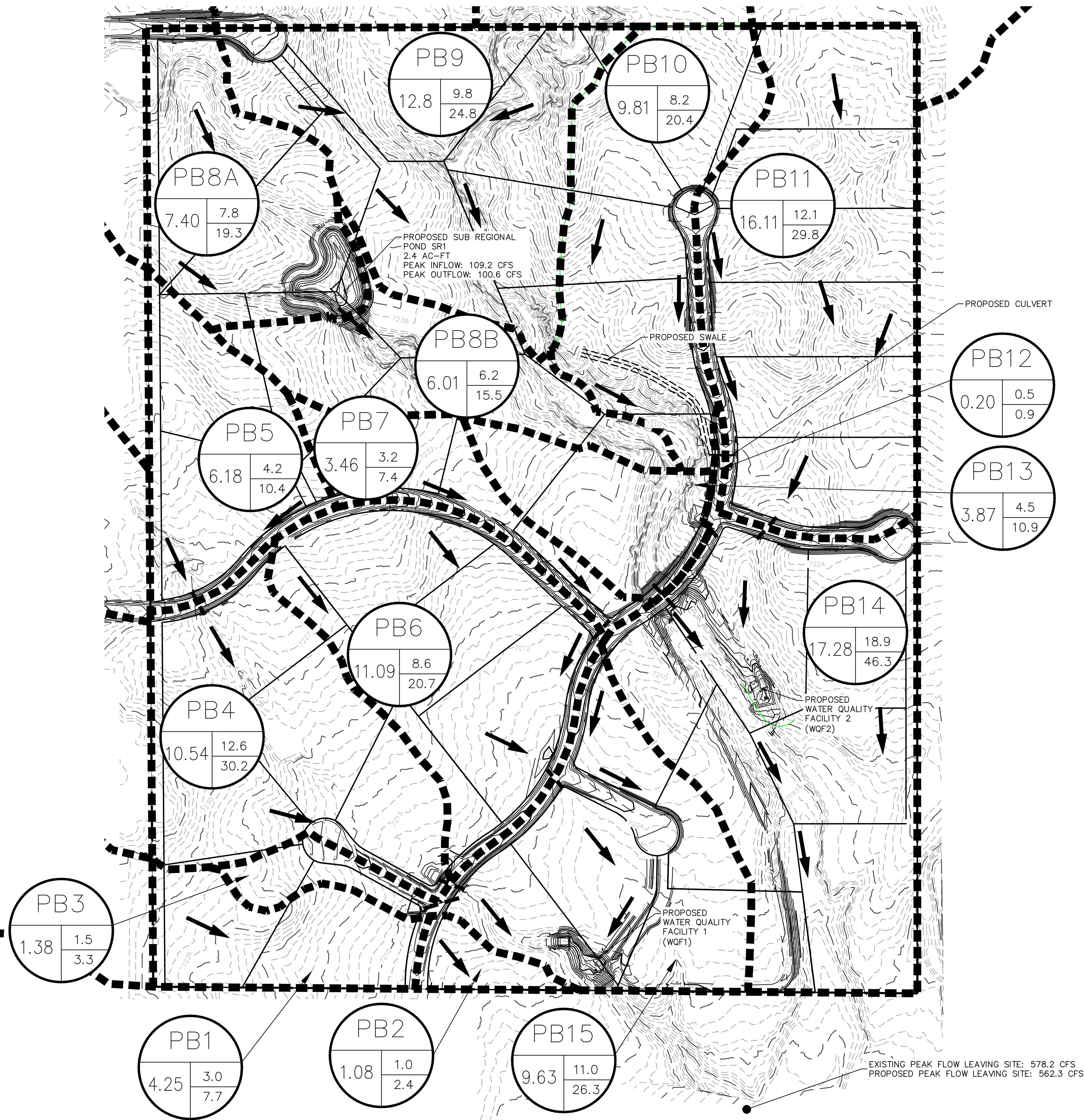
EAGLEVIEW
EL PASO COUNTY, COLORADO
POST DEVELOPMENT DRAINAGE MAP

Kimley»Horn
2022 KIMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

NO. BY DATE APR

REVISION

DESIGNED BY: MK
DRAWN BY: RS
CHECKED BY: KK
DATE: 04/08/2022



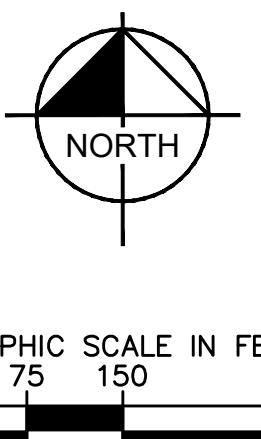
LEGEND

- DRAINAGE BASIN AREAS
- A - HEC-HMS BASINS
B - BASIN ACREAGE
C - 5-YR RUNOFF
D - 100-YR RUNOFF
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPERTY BOUNDARY
- FLOW ARROW
- FLOW PATH

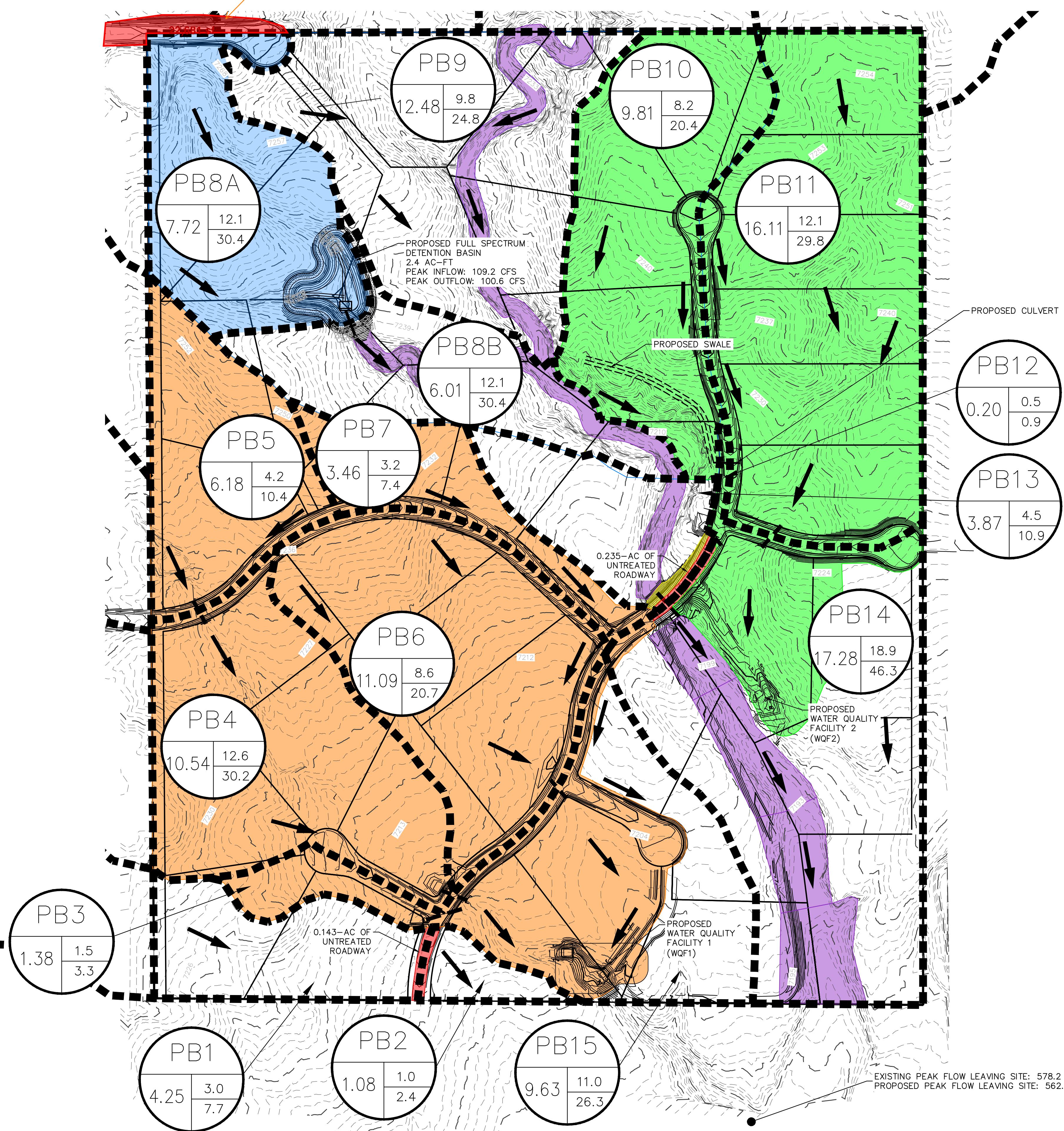
Kimley»Horn
2023 KMLEY-HORN AND ASSOCIATES, INC.
2 North Nevada Avenue Suite 300
Colorado Springs, Colorado 80903 (719) 453-0180

EAGLEVIEW
EL PASO COUNTY, COLORADO
PROPOSED CONDITIONS DRAINAGE MAP

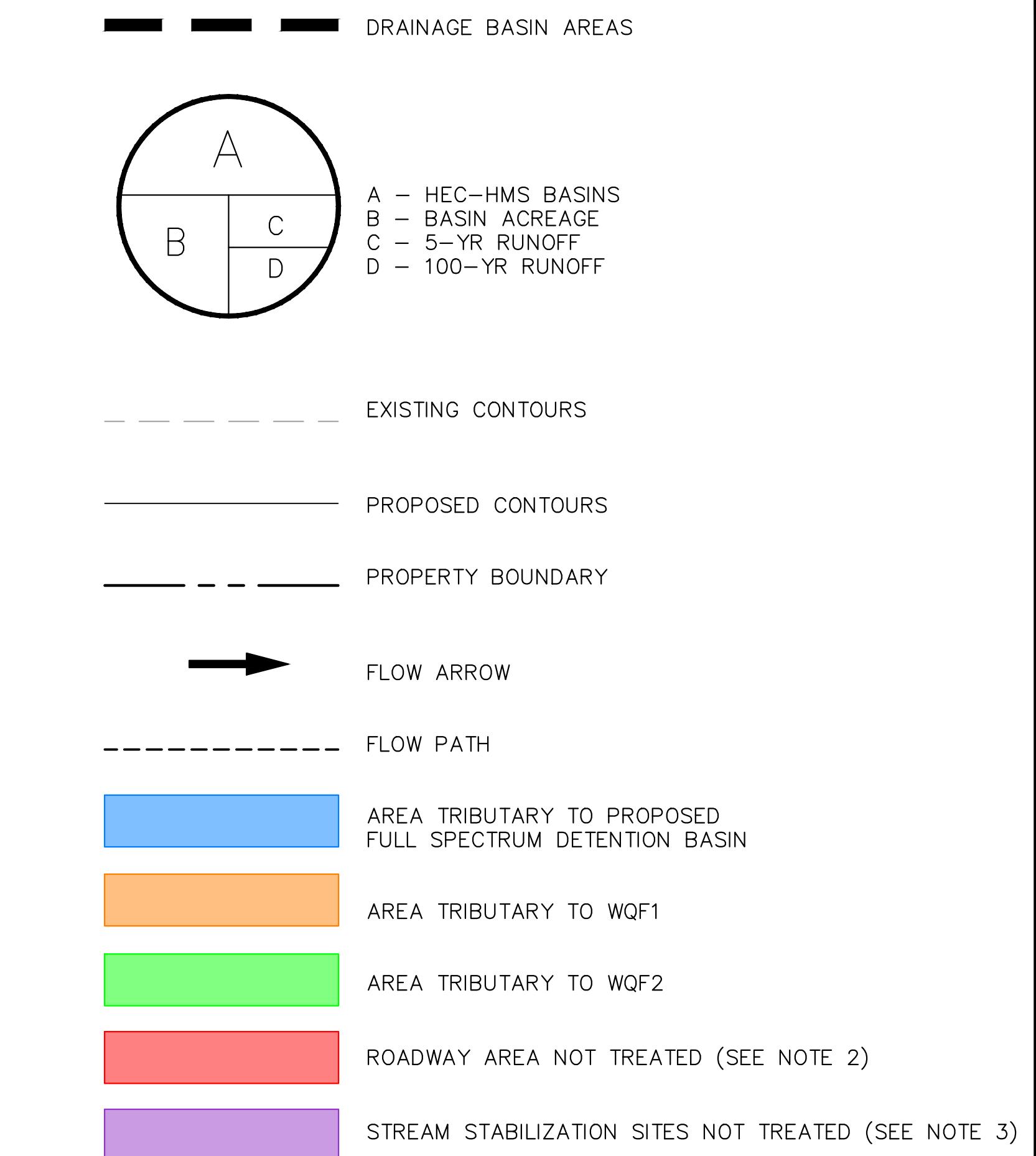
PRELIMINARY
FOR REVIEW ONLY
NOT FOR
CONSTRUCTION
Kimley»Horn
Kimley-Horn and Associates, Inc.
PROJECT NO.
196288000
SHEET
1



GRAPHIC SCALE IN FEET
0 75 150 300



LEGEND



NOTES:

- NON-ROADWAY AREAS NOT TREATED BY A PBMP ARE EXCLUDED BASED ON ECM APP I.7.1.B.7 AND I.7.1.B.7 DUE TO GRADING WITHIN A DEDICATED DRAINAGE EASEMENT TO PROVIDE A PATHWAY FOR THE EMERGENCY OVERFLOW FROM THE SUB-REGIONAL POND AND A MAINTENANCE ROAD FROM TO THE WATER QUALITY FACILITIES #1 AND #2. THE PORTION OF THE AREA NOT WITHIN THE DRAINAGE EASEMENT WILL BE PART OF A "LARGE LOT" 2.5 ACRES OR GREATER WITH IMPERVIOUS PERCENTAGE LESS THAN 10%
- ROADWAY AREA NOT TREATED BY A PBMP TOTALS 0.39 ACRES AND IS EXCLUDED BASED ON ECM APP I.7.1.C.1.
- AREAS DISTURBED THROUGH THE CONSTRUCTION OF DROP STRUCTURES ARE EXCLUDED BASED ON ECM APP I.7.1.B.8.

Update total value per my comment above about the northwestern cul-de-sac

NO.	REVISION	BY DATE	APPR
2022 KMLEY-HORN AND ASSOCIATES, INC. 2 North Nevada Avenue Suite 300 Colorado Springs, Colorado 80903 (719) 453-0180			

DESIGNED BY: MK
DRAWN BY: RS
CHECKED BY: KK
DATE: 12/06/2022

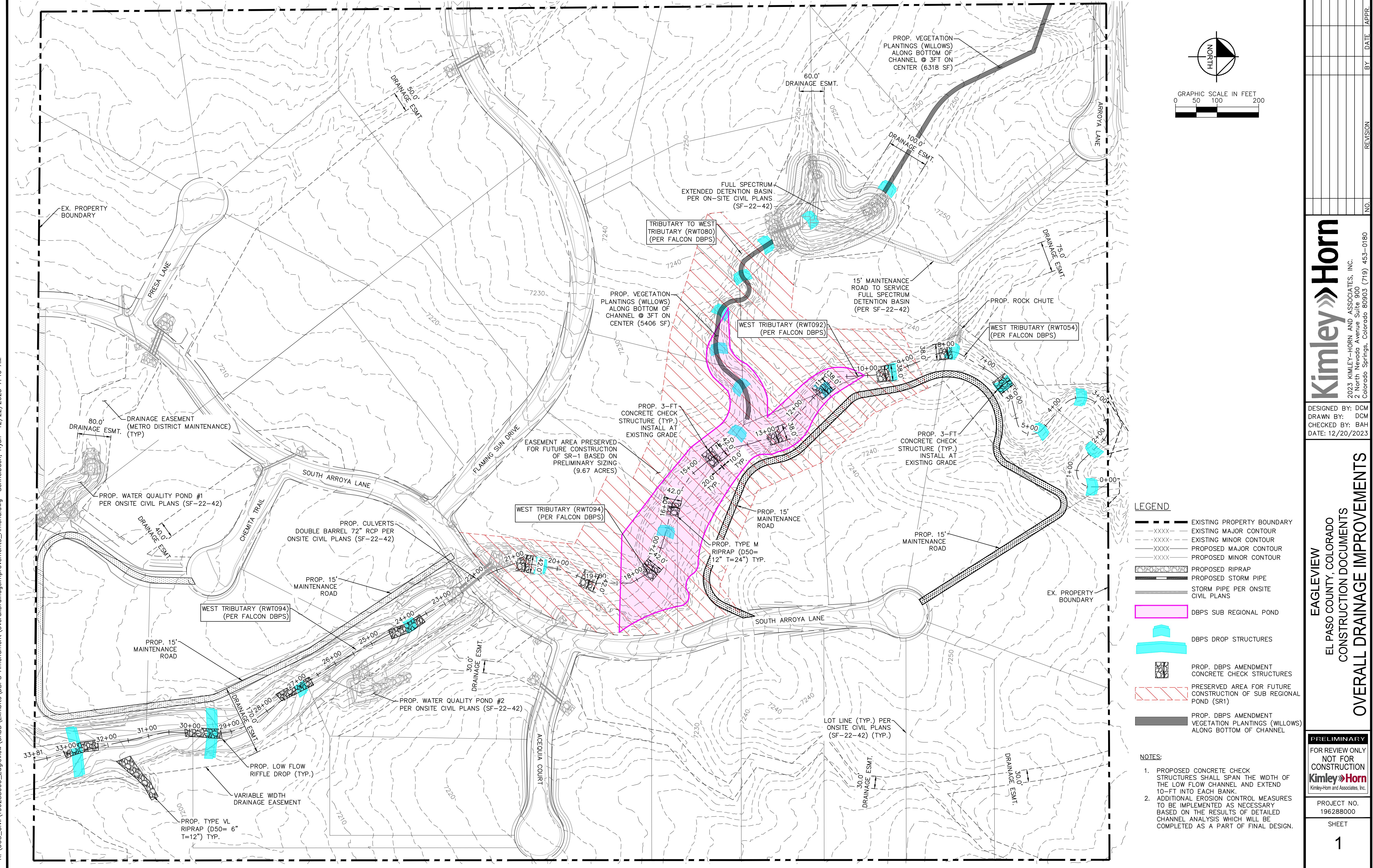
EAGLEVIE
EL PASO COUNTY, COLORADO
OVERVIEW MAP - PBMP TRIBUTARY AREAS

PRELIMINARY
FOR REVIEW ONLY
NOT FOR CONSTRUCTION
Kimley-Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196288000
SHEET

GRAPHIC SCALE IN FEET
0 75 150 300

NORTH



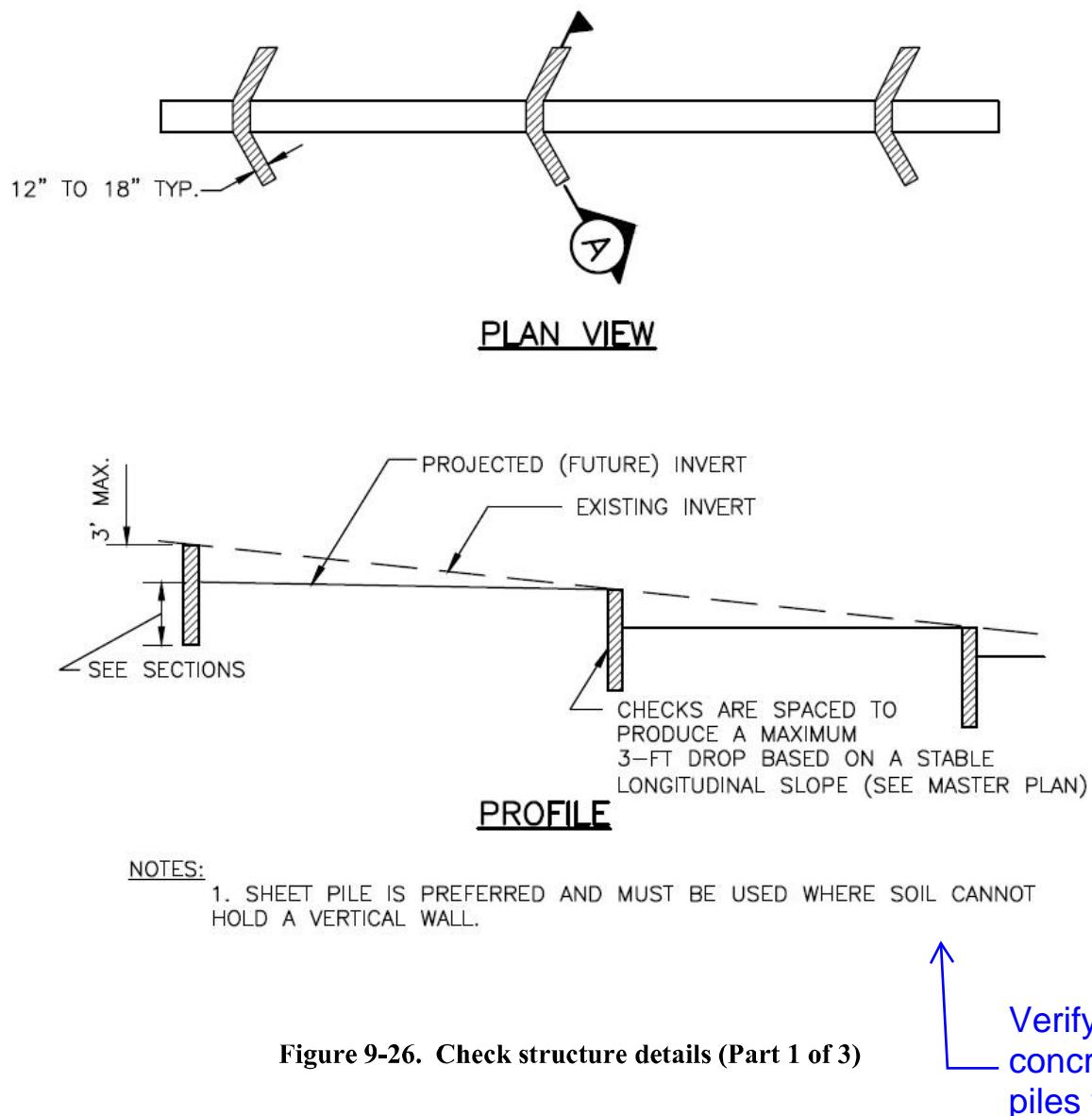


Figure 9-26. Check structure details (Part 1 of 3)

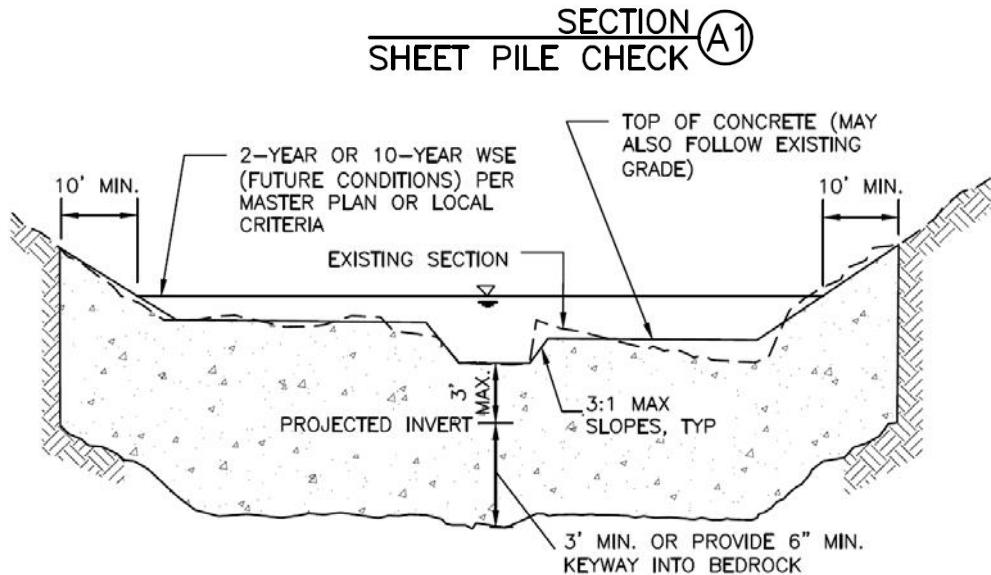
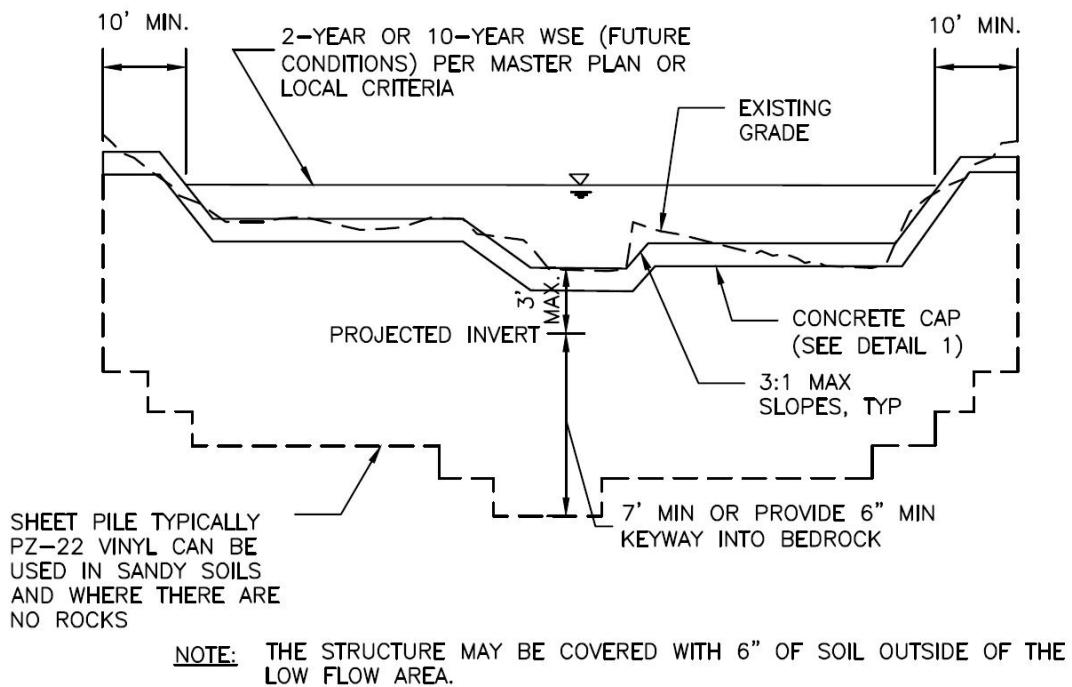


Figure 9-27. Check structure details (Part 2 of 3)

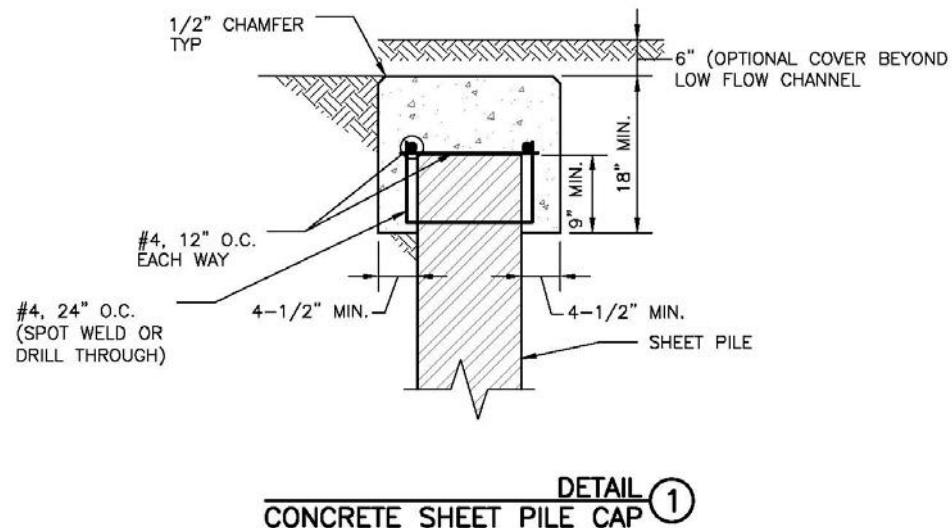
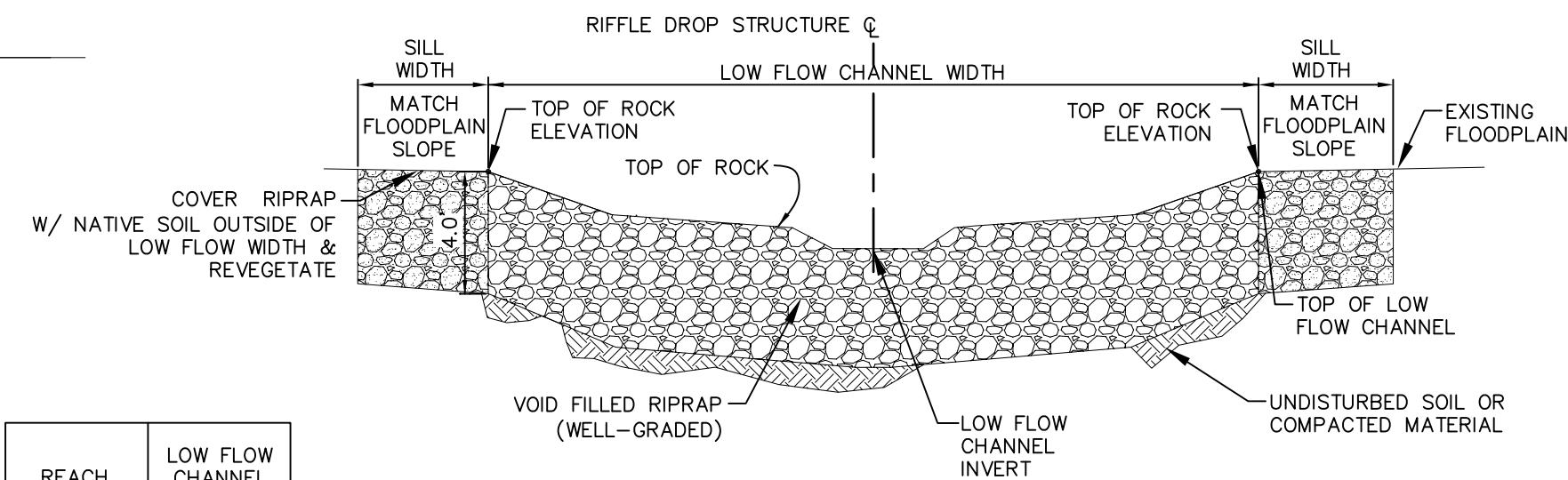
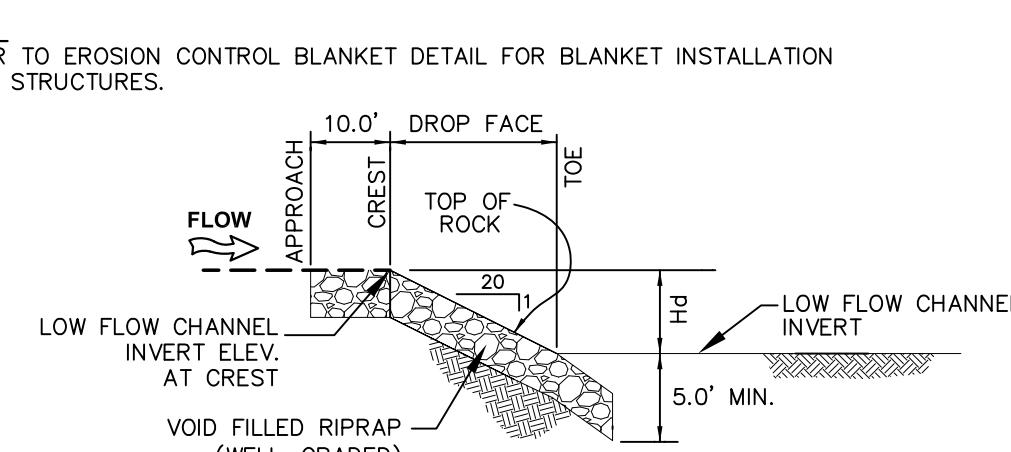
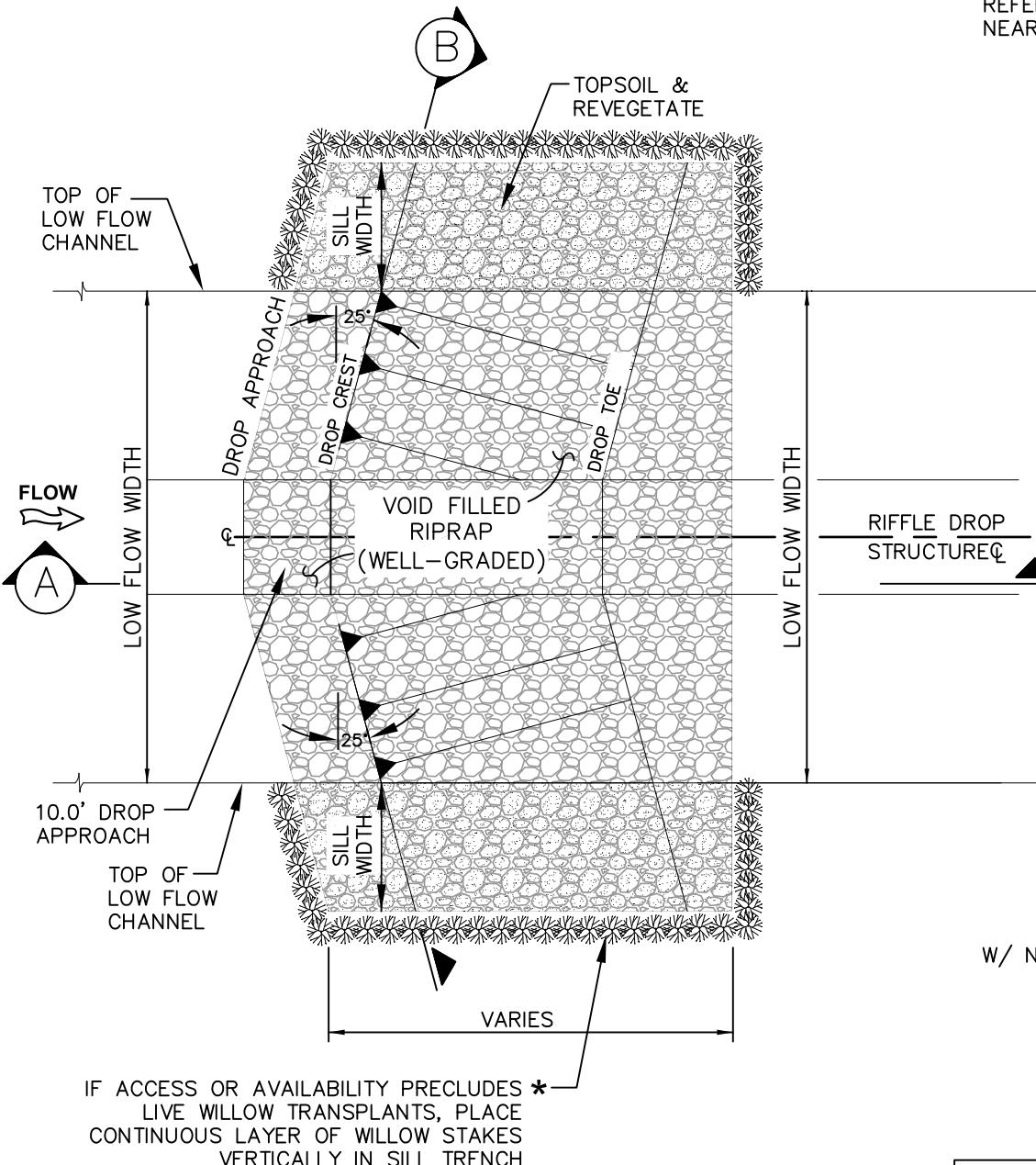


Figure 9-28. Check structure details (Part 3 of 3)



REACH	LOW FLOW CHANNEL WIDTH (FT)
RET120	29
RET154	22
RWT150	18
RWT210	30

TYPICAL RIFFLE DROP STRUCTURE FOR USE IN NATURAL CHANNEL DESIGN REACHES

NOT FOR CONSTRUCTION



NAME: S:\10.122.003 (Falcon DBPS)\DWG\XSEC-RCVANE-RDSExhibit.dwg
PCP: Matrix.ctb
PLOT DATE: Tue Jun 18, 2013 1:49pm



2435 Research Parkway, Suite 300
Colorado Springs, CO 80920
Phone 719-575-0100
Fax 719-575-0208

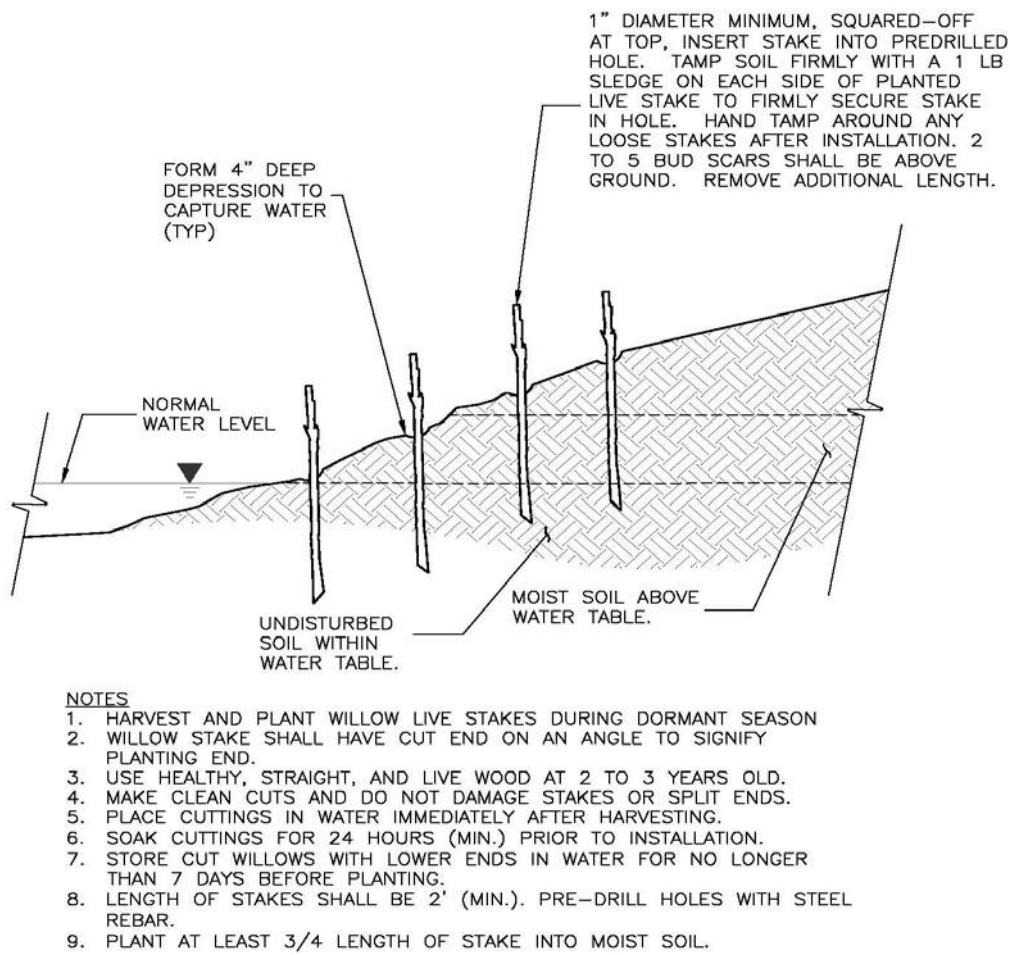


Figure 13-14. Willow live stakes planting

APPENDIX B: HYDROLOGY

- Existing and Proposed Conditions Hydrology (Excerpts from PDR)
- Proposed Conditions Hydrology (Revised)

Appendix B Hydrology Excerpts from PDR (Existing Conditions and Proposed Conditions)



United States
Department of
Agriculture

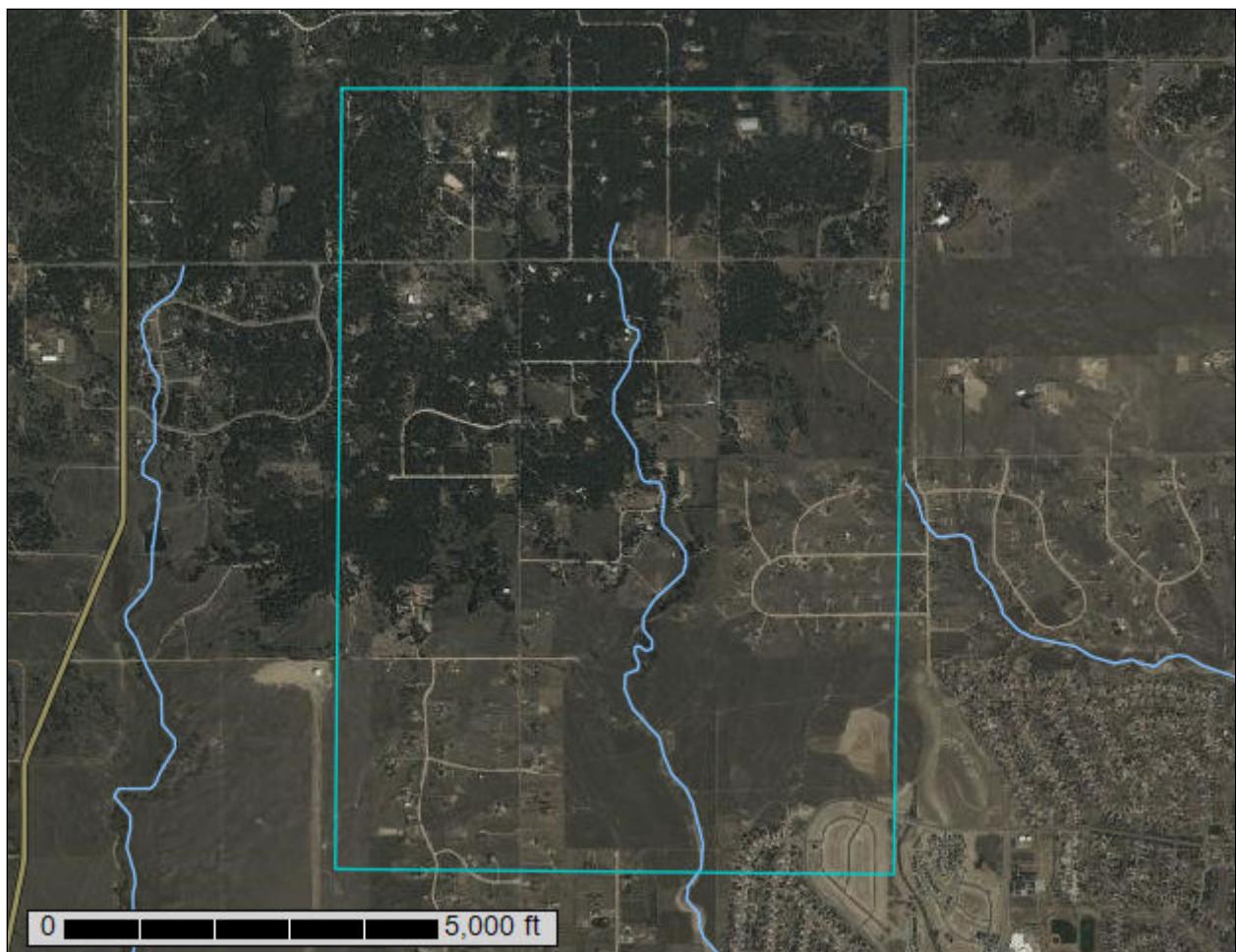
NRCS

Natural
Resources
Conservation
Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for El Paso County Area, Colorado

Eagleview



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface.....	2
How Soil Surveys Are Made.....	5
Soil Map.....	8
Soil Map.....	9
Legend.....	10
Map Unit Legend.....	11
Map Unit Descriptions.....	11
El Paso County Area, Colorado.....	13
19—Columbine gravelly sandy loam, 0 to 3 percent slopes.....	13
40—Kettle gravelly loamy sand, 3 to 8 percent slopes.....	14
41—Kettle gravelly loamy sand, 8 to 40 percent slopes.....	15
71—Pring coarse sandy loam, 3 to 8 percent slopes.....	16
References.....	18

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units).

Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

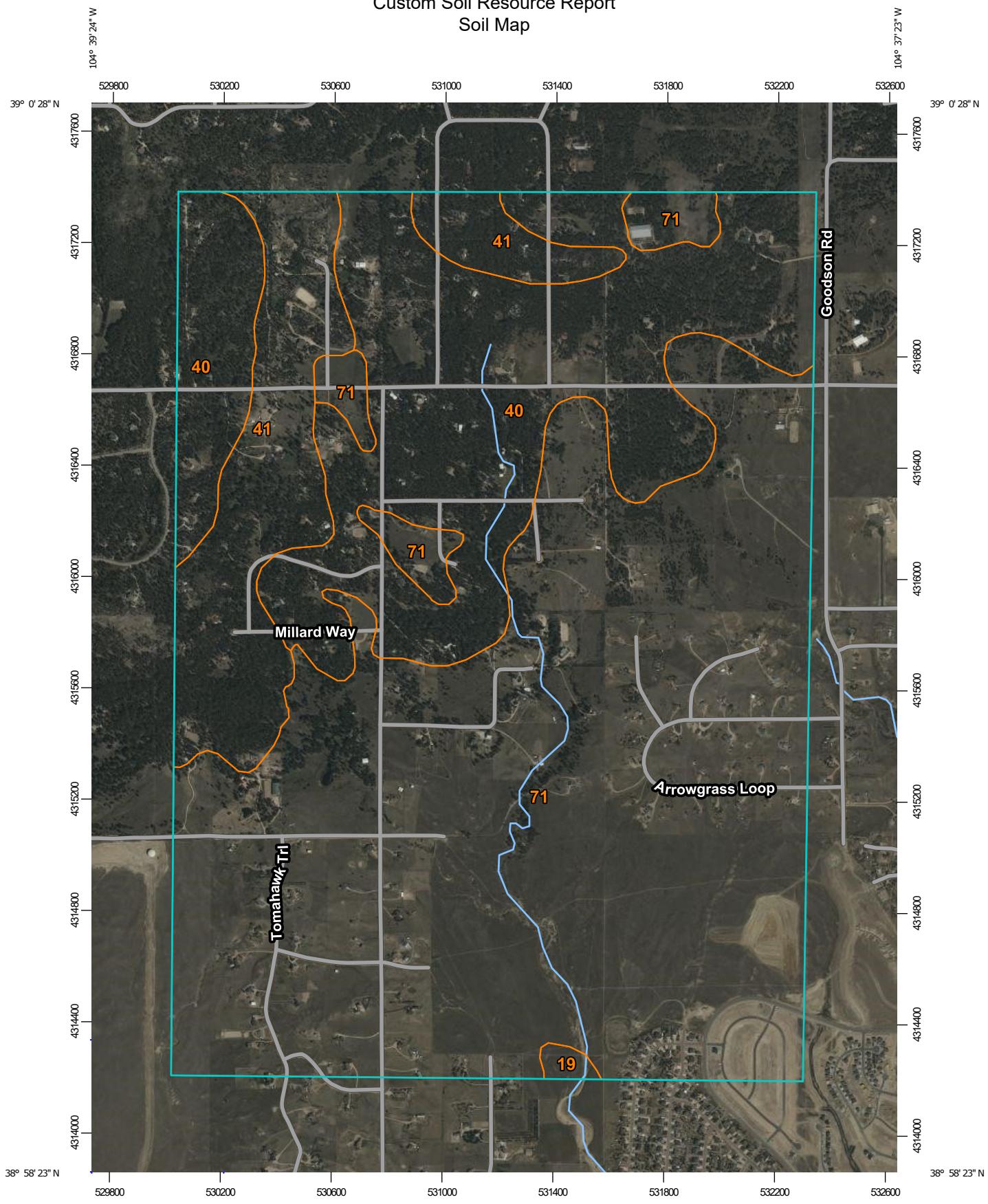
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

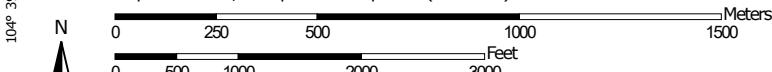
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:18,700 if printed on A portrait (8.5" x 11") sheet.

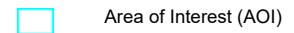


Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)



Area of Interest (AOI)

Soils



Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



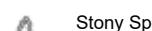
Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 19, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 11, 2018—Oct 20, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
19	Columbine gravelly sandy loam, 0 to 3 percent slopes	5.2	0.3%
40	Kettle gravelly loamy sand, 3 to 8 percent slopes	506.7	28.0%
41	Kettle gravelly loamy sand, 8 to 40 percent slopes	205.0	11.3%
71	Pring coarse sandy loam, 3 to 8 percent slopes	1,092.9	60.4%
Totals for Area of Interest		1,809.9	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

Custom Soil Resource Report

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

El Paso County Area, Colorado

19—Columbine gravelly sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 367p
Elevation: 6,500 to 7,300 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 125 to 145 days
Farmland classification: Not prime farmland

Map Unit Composition

Columbine and similar soils: 97 percent
Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Columbine

Setting

Landform: Flood plains, fan terraces, fans
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

A - 0 to 14 inches: gravelly sandy loam
C - 14 to 60 inches: very gravelly loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R049XY214CO - Gravelly Foothill
Hydric soil rating: No

Minor Components

Fluvaquentic haplaquolls

Percent of map unit: 1 percent
Landform: Swales
Hydric soil rating: Yes

Other soils

Percent of map unit: 1 percent
Hydric soil rating: No

Pleasant

Percent of map unit: 1 percent
Landform: Depressions
Hydric soil rating: Yes

40—Kettle gravelly loamy sand, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 368g
Elevation: 7,000 to 7,700 feet
Farmland classification: Not prime farmland

Map Unit Composition

Kettle and similar soils: 85 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kettle

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy alluvium derived from arkose

Typical profile

E - 0 to 16 inches: gravelly loamy sand
Bt - 16 to 40 inches: gravelly sandy loam
C - 40 to 60 inches: extremely gravelly loamy sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: F048AY908CO - Mixed Conifer

Hydric soil rating: No

Minor Components

Other soils

Percent of map unit:

Hydric soil rating: No

Pleasant

Percent of map unit:

Landform: Depressions

Hydric soil rating: Yes

41—Kettle gravelly loamy sand, 8 to 40 percent slopes

Map Unit Setting

National map unit symbol: 368h

Elevation: 7,000 to 7,700 feet

Farmland classification: Not prime farmland

Map Unit Composition

Kettle and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kettle

Setting

Landform: Hills

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy alluvium derived from arkose

Typical profile

E - 0 to 16 inches: gravelly loamy sand

Bt - 16 to 40 inches: gravelly sandy loam

C - 40 to 60 inches: extremely gravelly loamy sand

Properties and qualities

Slope: 8 to 40 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: F048AY908CO - Mixed Conifer

Hydric soil rating: No

Minor Components

Pleasant

Percent of map unit:

Landform: Depressions

Hydric soil rating: Yes

Other soils

Percent of map unit:

Hydric soil rating: No

71—Pring coarse sandy loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 369k

Elevation: 6,800 to 7,600 feet

Farmland classification: Not prime farmland

Map Unit Composition

Pring and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pring

Setting

Landform: Hills

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Arkosic alluvium derived from sedimentary rock

Typical profile

A - 0 to 14 inches: coarse sandy loam

C - 14 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R048AY222CO - Loamy Park
Hydric soil rating: No

Minor Components

Pleasant

Percent of map unit:
Landform: Depressions
Hydric soil rating: Yes

Other soils

Percent of map unit:
Hydric soil rating: No

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

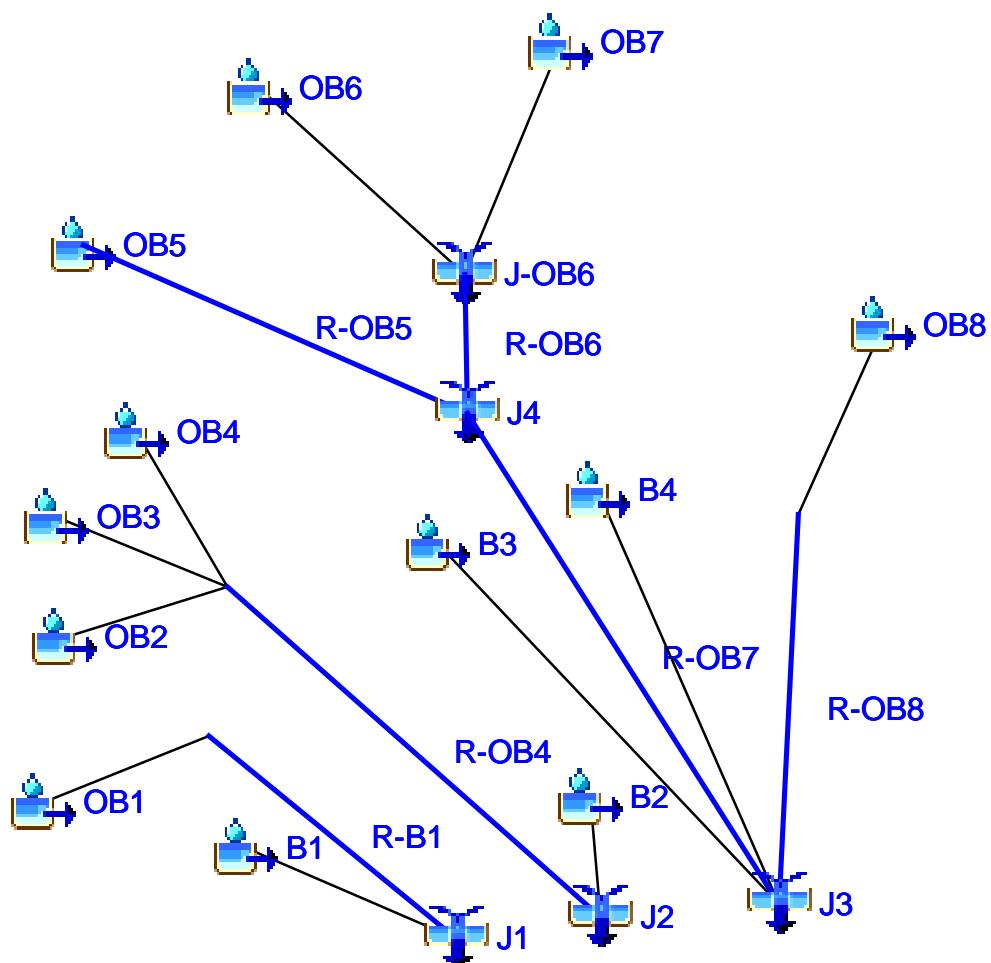


HEC-HMS

Project : Eagleview_Subdivision

Basin Model : Eagleview_Existing

Mar 11 13:21:39 MST 2022



El Paso County Chapter 5: Table 5-2 SCS 24-hr Type II Distribution for TR-20 Input

Hour	Minutes			
	15	30	45	60
1	0.002	0.005	0.008	0.01
2	0.014	0.017	0.020	0.02
3	0.026	0.029	0.032	0.04
4	0.038	0.041	0.044	0.05
5	0.052	0.056	0.060	0.06
6	0.068	0.072	0.076	0.08
7	0.085	0.090	0.095	0.1
8	0.105	0.110	0.115	0.12
9	0.126	0.133	0.140	0.15
10	0.155	0.163	0.172	0.18
11	0.191	0.203	0.218	0.24
12	0.257	0.283	0.387	0.66
13	0.707	0.735	0.758	0.78
14	0.791	0.804	0.815	0.83
15	0.834	0.842	0.849	0.86
16	0.863	0.869	0.875	0.88
17	0.887	0.893	0.898	0.9
18	0.908	0.913	0.918	0.92
19	0.926	0.930	0.934	0.94
20	0.942	0.946	0.950	0.95
21	0.956	0.959	0.962	0.97
22	0.968	0.971	0.974	0.98
23	0.980	0.983	0.986	0.99
24	0.992	0.995	0.998	1

Table 6-2. 24hr Rainfall Depths for Colorado Springs

Return Period	Depths
2-yr	2.1
5-yr	2.7
10-yr	3.2
25-yr	3.6
50-yr	4.2
100-yr	4.6

Design Strom Hyetograph Table

	Time (mins)	Fraction of 1-hr Rainfall Depth	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
	0	0	0	0	0	0	0	0
	15	0.002	0.0042	0.0054	0.0064	0.0072	0.0084	0.0092
	30	0.005	0.0105	0.0135	0.016	0.018	0.021	0.023
	45	0.008	0.0168	0.0216	0.0256	0.0288	0.0336	0.0368
1	60	0.011	0.0231	0.0297	0.0352	0.0396	0.0462	0.0506
	75	0.014	0.0294	0.0378	0.0448	0.0504	0.0588	0.0644
	90	0.017	0.0357	0.0459	0.0544	0.0612	0.0714	0.0782
	105	0.02	0.042	0.054	0.064	0.072	0.084	0.092
2	120	0.023	0.0483	0.0621	0.0736	0.0828	0.0966	0.1058
	135	0.026	0.0546	0.0702	0.0832	0.0936	0.1092	0.1196
	150	0.029	0.0609	0.0783	0.0928	0.1044	0.1218	0.1334
	165	0.032	0.0672	0.0864	0.1024	0.1152	0.1344	0.1472
3	180	0.035	0.0735	0.0945	0.112	0.126	0.147	0.161
	195	0.038	0.0798	0.1026	0.1216	0.1368	0.1596	0.1748
	210	0.041	0.0861	0.1107	0.1312	0.1476	0.1722	0.1886
	225	0.044	0.0924	0.1188	0.1408	0.1584	0.1848	0.2024
4	240	0.048	0.1008	0.1296	0.1536	0.1728	0.2016	0.2208
	255	0.052	0.1092	0.1404	0.1664	0.1872	0.2184	0.2392
	270	0.056	0.1176	0.1512	0.1792	0.2016	0.2352	0.2576
	285	0.06	0.126	0.162	0.192	0.216	0.252	0.276
5	300	0.0604	0.12684	0.16308	0.19328	0.21744	0.25368	0.27784
	315	0.068	0.1428	0.1836	0.2176	0.2448	0.2856	0.3128
	330	0.072	0.1512	0.1944	0.2304	0.2592	0.3024	0.3312
	345	0.076	0.1596	0.2052	0.2432	0.2736	0.3192	0.3496
6	360	0.08	0.168	0.216	0.256	0.288	0.336	0.368
	375	0.085	0.1785	0.2295	0.272	0.306	0.357	0.391
	390	0.09	0.189	0.243	0.288	0.324	0.378	0.414
	405	0.095	0.1995	0.2565	0.304	0.342	0.399	0.437
7	420	0.1	0.21	0.27	0.32	0.36	0.42	0.46
	435	0.105	0.2205	0.2835	0.336	0.378	0.441	0.483
	450	0.11	0.231	0.297	0.352	0.396	0.462	0.506
	465	0.115	0.2415	0.3105	0.368	0.414	0.483	0.529
8	480	0.12	0.252	0.324	0.384	0.432	0.504	0.552
	495	0.126	0.2646	0.3402	0.4032	0.4536	0.5292	0.5796
	510	0.133	0.2793	0.3591	0.4256	0.4788	0.5586	0.6118
	525	0.14	0.294	0.378	0.448	0.504	0.588	0.644
9	540	0.147	0.3087	0.3969	0.4704	0.5292	0.6174	0.6762
	555	0.155	0.3255	0.4185	0.496	0.558	0.651	0.713
	570	0.163	0.3423	0.4401	0.5216	0.5868	0.6846	0.7498
	585	0.172	0.3612	0.4644	0.5504	0.6192	0.7224	0.7912
10	600	0.181	0.3801	0.4887	0.5792	0.6516	0.7602	0.8326
	615	0.191	0.4011	0.5157	0.6112	0.6876	0.8022	0.8786
	630	0.203	0.4263	0.5481	0.6496	0.7308	0.8526	0.9338
	645	0.218	0.4578	0.5886	0.6976	0.7848	0.9156	1.0028
11	660	0.236	0.4956	0.6372	0.7552	0.8496	0.9912	1.0856
	675	0.257	0.5397	0.6939	0.8224	0.9252	1.0794	1.1822
	690	0.283	0.5943	0.7641	0.9056	1.0188	1.1886	1.3018
	705	0.387	0.8127	1.0449	1.2384	1.3932	1.6254	1.7802
12	720	0.663	1.3923	1.7901	2.1216	2.3868	2.7846	3.0498
	735	0.707	1.4847	1.9089	2.2624	2.5452	2.9694	3.2522
	750	0.735	1.5435	1.9845	2.352	2.646	3.087	3.381
	765	0.758	1.5918	2.0466	2.4256	2.7288	3.1836	3.4868
13	780	0.776	1.6296	2.0952	2.4832	2.7936	3.2592	3.5696
	795	0.791	1.6611	2.1357	2.5312	2.8476	3.3222	3.6386
	810	0.804	1.6884	2.1708	2.5728	2.8944	3.3768	3.6984
	825	0.815	1.7115	2.2005	2.608	2.934	3.423	3.749

14	840	0.825	1.7325	2.2275	2.64	2.97	3.465	3.795
	855	0.834	1.7514	2.2518	2.6688	3.0024	3.5028	3.8364
	870	0.842	1.7682	2.2734	2.6944	3.0312	3.5364	3.8732
	885	0.849	1.7829	2.2923	2.7168	3.0564	3.5658	3.9054
15	900	0.856	1.7976	2.3112	2.7392	3.0816	3.5952	3.9376
	915	0.863	1.8123	2.3301	2.7616	3.1068	3.6246	3.9698
	930	0.869	1.8249	2.3463	2.7808	3.1284	3.6498	3.9974
	945	0.875	1.8375	2.3625	2.8	3.15	3.675	4.025
16	960	0.881	1.8501	2.3787	2.8192	3.1716	3.7002	4.0526
	975	0.887	1.8627	2.3949	2.8384	3.1932	3.7254	4.0802
	990	0.893	1.8753	2.4111	2.8576	3.2148	3.7506	4.1078
	1005	0.898	1.8858	2.4246	2.8736	3.2328	3.7716	4.1308
17	1020	0.903	1.8963	2.4381	2.8896	3.2508	3.7926	4.1538
	1035	0.908	1.9068	2.4516	2.9056	3.2688	3.8136	4.1768
	1050	0.913	1.9173	2.4651	2.9216	3.2868	3.8346	4.1998
	1065	0.918	1.9278	2.4786	2.9376	3.3048	3.8556	4.2228
18	1080	0.922	1.9362	2.4894	2.9504	3.3192	3.8724	4.2412
	1095	0.926	1.9446	2.5002	2.9632	3.3336	3.8892	4.2596
	1110	0.93	1.953	2.511	2.976	3.348	3.906	4.278
	1125	0.934	1.9614	2.5218	2.9888	3.3624	3.9228	4.2964
19	1140	0.938	1.9698	2.5326	3.0016	3.3768	3.9396	4.3148
	1155	0.942	1.9782	2.5434	3.0144	3.3912	3.9564	4.3332
	1170	0.946	1.9866	2.5542	3.0272	3.4056	3.9732	4.3516
	1185	0.95	1.995	2.565	3.04	3.42	3.99	4.37
20	1200	0.953	2.0013	2.5731	3.0496	3.4308	4.0026	4.3838
	1215	0.956	2.0076	2.5812	3.0592	3.4416	4.0152	4.3976
	1230	0.959	2.0139	2.5893	3.0688	3.4524	4.0278	4.4114
	1245	0.962	2.0202	2.5974	3.0784	3.4632	4.0404	4.4252
21	1260	0.965	2.0265	2.6055	3.088	3.474	4.053	4.439
	1275	0.968	2.0328	2.6136	3.0976	3.4848	4.0656	4.4528
	1290	0.971	2.0391	2.6217	3.1072	3.4956	4.0782	4.4666
	1305	0.974	2.0454	2.6298	3.1168	3.5064	4.0908	4.4804
22	1320	0.977	2.0517	2.6379	3.1264	3.5172	4.1034	4.4942
	1335	0.98	2.058	2.646	3.136	3.528	4.116	4.508
	1350	0.983	2.0643	2.6541	3.1456	3.5388	4.1286	4.5218
	1365	0.986	2.0706	2.6622	3.1552	3.5496	4.1412	4.5356
23	1380	0.989	2.0769	2.6703	3.1648	3.5604	4.1538	4.5494
	1395	0.992	2.0832	2.6784	3.1744	3.5712	4.1664	4.5632
	1410	0.995	2.0895	2.6865	3.184	3.582	4.179	4.577
	1425	0.998	2.0958	2.6946	3.1936	3.5928	4.1916	4.5908
24	1440	1	2.1	2.7	3.2	3.6	4.2	4.6

IMPERVIOUS FACTOR CALCULATION TABLE - EXISTING CONDITIONS

	Basin	Area (Acre)	Open Space (2%)	Buildings (100%)	Paved Roadway (100%)	Gravel Roadway (80%)	Total % Check	Weighted Impervious
Onsite	B1	5.55	93%	0%	0%	6%	99%	7%
	B2	41.43	100%	0%	0%	0%	100%	2%
	B3	59.54	100%	0%	0%	0%	100%	2%
	B4	14.68	100%	0%	0%	0%	100%	2%
Offsite	OB1	10.37	93%	2%	4%	2%	100%	9%
	OB2	28.06	90%	3%	3%	5%	100%	11%
	OB3	43.44	92%	2%	2%	4%	100%	9%
	OB4	10.50	87%	4%	5%	4%	100%	13%
	OB5	143.82	94%	2%	1%	3%	100%	7%
	OB6	118.40	93%	1%	2%	4%	100%	8%
	OB7	421.43	93%	2%	1%	4%	100%	8%
	OB8	33.08	93%	2%	1%	5%	100%	8%
Total		930.30						10.6%

Pre Runoff Analysis
Time of Concentration

Project Information

Project Name:	Eagleview
KHA Project #:	196288000
Designed by:	DCM
Revised by:	
Checked by:	BAH
Minimum Time of Concentration	5.0
2YR-24HR Rainfall, P2	2.10

minutes

Pre-Development											
Drainage Area: OB1											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.073	0.15	2.10	U				17.35	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	1118.00	0.038			U				5.93	
										3.14	
											Pre-Development Time of Concentration, OB1
											23.28
											13.97

Pre-Development											
Drainage Area: OB2											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.063	0.15	2.10	U				18.41	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	554.00	0.046			U				2.67	
CHANNEL	T2 CHANNEL FLOW	841.00	0.029	0.05		U	9.50	6.60	1.44	6.45	2.17
											Pre-Development Time of Concentration, OB2
											23.26
											13.95

Pre-Development											
Drainage Area: OB3											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.074	0.15	2.10	U				17.26	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	2436.00	0.034			U				2.97	
											Pre-Development Time of Concentration, OB3
											30.91
											18.55

Pre-Development											
Drainage Area: OB4											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.042	0.15	2.10	U				21.65	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	783.00	0.038			U				3.16	
CHANNEL	T2 CHANNEL FLOW	577.00	0.028	0.05		U	9.50	6.60	1.44	6.36	1.51
											Pre-Development Time of Concentration, OB4
											27.29
											16.38

Pre-Development											
Drainage Area: OBS											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.037	0.40	2.10	U				49.91	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	3834.00	0.033			U				21.83	
CHANNEL	T2 CHANNEL FLOW	1407.00	0.024	0.04		U	9.50	6.60	1.44	7.36	3.19
											Pre-Development Time of Concentration, OBS
											74.93
											44.96

Pre-Development											
Drainage Area: OB6											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.064	0.40	2.10	U				40.09	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	2569.00	0.038			U				3.14	
CHANNEL	T2 CHANNEL FLOW	2110.00	0.027	0.04		U	9.50	6.60	1.44	7.73	4.55
											Pre-Development Time of Concentration, OB6
											58.25
											34.95

Pre-Development											
Drainage Area: OB7											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.028	0.40	2.10	U				55.80	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	2068.00	0.036			U				3.06	
CHANNEL	T2 CHANNEL FLOW	6198.00	0.03	0.04		U	12.00	22.00	0.55	4.09	25.29
											Pre-Development Time of Concentration, OB7
											92.35
											55.41

Pre-Development											
Drainage Area: OB8											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.029	0.15	2.10	U				25.10	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	1117.00	0.043			U				3.34	
CHANNEL	T2 CHANNEL FLOW	762.00	0.033	0.03		U	9.50	6.60	1.44	11.43	1.11
											Pre-Development Time of Concentration, OB8
											31.78
											19.07

Pre-Development											
Drainage Area: B1											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.027	0.15	2.10	U				25.83	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	368.00	0.033			U				2.11	
CHANNEL	T2 CHANNEL FLOW	210.00	0.034	0.03		U	9.50	6.60	1.44	11.68	0.30
											26.24
											16.94

Pre-Development											
Drainage Area: B2											
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)
SHEET	T3 SHEET FLOW	300.00	0.022	0.15	2.10	U				28.04	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	737.00	0.025			U				2.55	
CHANNEL	T2 CHANNEL FLOW	1086.00	0.02	0.03		U	9.50	6.60	1.44	9.18	1.97
											34.83
											20.90

<tbl_header

Pre Runoff Analysis
Time of Concentration

Project Information

Project Name:	Eagleview
KHA Project #:	196288000
Designed by:	DCM
Revised by:	
Checked by:	BAH

Minimum Time of Concentration 5.0 minutes
2YR-24HR Rainfall, P2 2.10

Pre-Development

Drainage Area: B4												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.020	0.15	2.10						29.13	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	181.00	0.044			U				3.37	0.90	
CHANNEL	T2 CHANNEL FLOW	1548.00	0.033	0.03		U	9.50	6.60	1.44	11.50	2.24	
Pre-Development Time of Concentration, B4											32.27	19.36

Pre Runoff Analysis

Composite CN

Project Name: Eagleview
 KHA Project #: 196288000
 Designed by: DCM Date: 3/17/2022
 Revised by: _____ Date: _____
 Revised by: _____ Date: _____
 Checked by: BAH Date: 3/17/2022

Pre-Development

Drainage Area: OB1

COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	9.79	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.38	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	0.20	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB1		63.76		10.37	0.569

Pre-Development

Drainage Area: OB2

COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	25.92	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.86	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	1.28	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB2		64.16		28.06	0.559

Pre-Development

Drainage Area: OB3

COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	40.88	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.89	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	1.67	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB3		63.62		43.44	0.572

Pre-Development

Drainage Area: OB4

COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	9.55	0.00
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.52	0.55
IMPERVIOUS	Gravel (including right of way)	B	85.00	0.43	9.95
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB4		64.71		10.50	0.545

Pre-Development

Drainage Area: OB5

COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	28.58	--
RESIDENTIAL	RR-5 (Woods Landuse)	B	58.00	109.48	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	1.12	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	4.64	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB5		59.98		143.82	0.667

Pre-Development

Drainage Area: OB6

COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	60.64	--
RESIDENTIAL	RR-5 (Woods Landuse)	B	58.00	51.19	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	2.04	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	4.53	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB6		61.77		118.40	0.619

Pre Runoff Analysis

Composite CN

Project Name: Eagleview
 KHA Project #: 196288000
 Designed by: DCM Date: 3/17/2022
 Revised by: _____ Date: _____
 Revised by: _____ Date: _____
 Checked by: BAH Date: 3/17/2022

Pre-Development					
Drainage Area: OB7					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	122.08	--
RESIDENTIAL	RR-5 (Woods Landuse)	B	58.00	259.48	--
RESIDENTIAL	2.5 acre	B	64.00	16.02	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	5.46	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	18.17	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - OB7		61.07		421.20	0.637

Pre-Development					
Drainage Area: OB8					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	8.71	--
RESIDENTIAL	2.5 acre	B	64.00	21.76	--
RESIDENTIAL	1/2 acre (25% imp.)	B	71.00	0.79	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.24	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	1.57	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - OB8		64.89		33.07	0.541

Pre-Development					
Drainage Area: B1					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
OPEN SPACE	Good condition (grass cover >75%)	B	61.00	5.55	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - B1		61.00		5.55	0.639

Pre-Development					
Drainage Area: B2					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
OPEN SPACE	Good condition (grass cover >75%)	A	39.00	0.61	--
OPEN SPACE	Good condition (grass cover >75%)	B	61.00	40.82	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - B2		60.68		41.43	0.648

Pre-Development					
Drainage Area: B3					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
OPEN SPACE	Good condition (grass cover >75%)	A	39.00	0.28	--
OPEN SPACE	Good condition (grass cover >75%)	B	61.00	59.27	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - B3		60.90		59.54	0.642

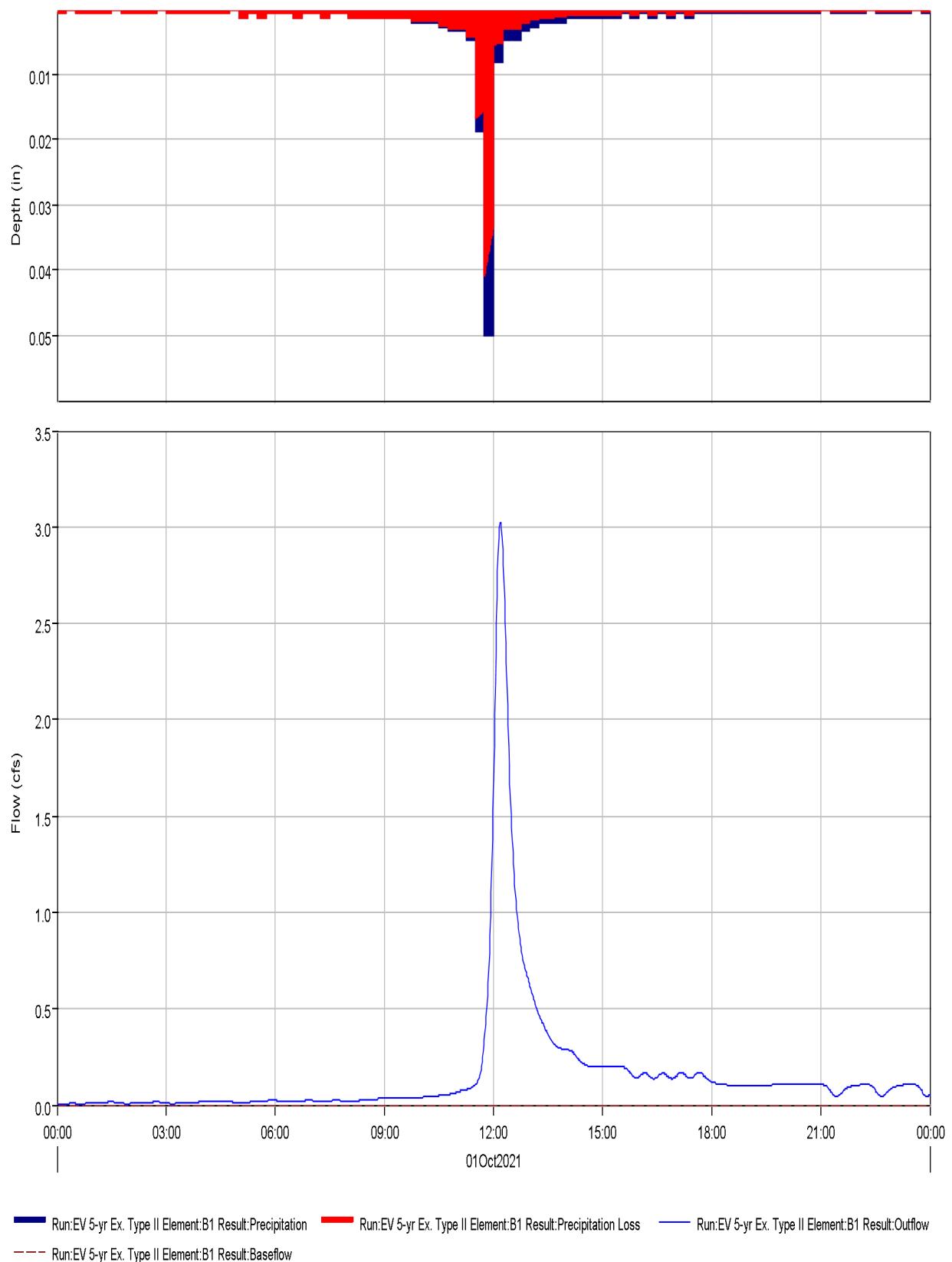
Pre-Development					
Drainage Area: B4					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
OPEN SPACE	Good condition (grass cover >75%)	B	61.00	14.68	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - B4		61.00		14.68	0.639

Project: Eagleview_Subdivision Simulation Run: EV 5-yr Ex. Type II

Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
 End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
 Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
B1	0.0091800	3.0	01Oct2021, 12:11	0.3
B2	0.0647266	15.4	01Oct2021, 12:16	1.8
B3	0.0930359	36.4	01Oct2021, 12:04	2.7
B4	0.0229422	5.8	01Oct2021, 12:14	0.7
J1	0.0253831	10.1	01Oct2021, 12:11	1.0
J2	0.1928516	67.5	01Oct2021, 12:15	7.3
J3	1.2354980	183.1	01Oct2021, 12:47	42.8
J4	1.0678500	169.2	01Oct2021, 12:46	37.4
J-OB6	0.8431300	132.4	01Oct2021, 12:45	30.1
OB1	0.0162031	7.1	01Oct2021, 12:08	0.7
OB2	0.0438438	20.6	01Oct2021, 12:08	1.9
OB3	0.0678750	25.3	01Oct2021, 12:13	2.8
OB4	0.0164062	7.5	01Oct2021, 12:10	0.8
OB5	0.2247200	36.8	01Oct2021, 12:42	7.4
OB6	0.1850100	40.8	01Oct2021, 12:30	6.8
OB7	0.6581200	101.4	01Oct2021, 12:53	23.3
OB8	0.0516699	19.5	01Oct2021, 12:13	2.1
R-B1	0.0162031	7.1	01Oct2021, 12:11	0.7
R-OB4	0.1281250	52.2	01Oct2021, 12:14	5.4
R-OB5	0.2247200	36.8	01Oct2021, 12:45	7.4
R-OB6	0.8431300	132.4	01Oct2021, 12:46	30.0
R-OB7	1.0678500	169.2	01Oct2021, 12:49	37.3
R-OB8	0.0516699	19.4	01Oct2021, 12:17	2.1

Subbasin "B1" Results for Run "EV 5-yr Ex. Type II"



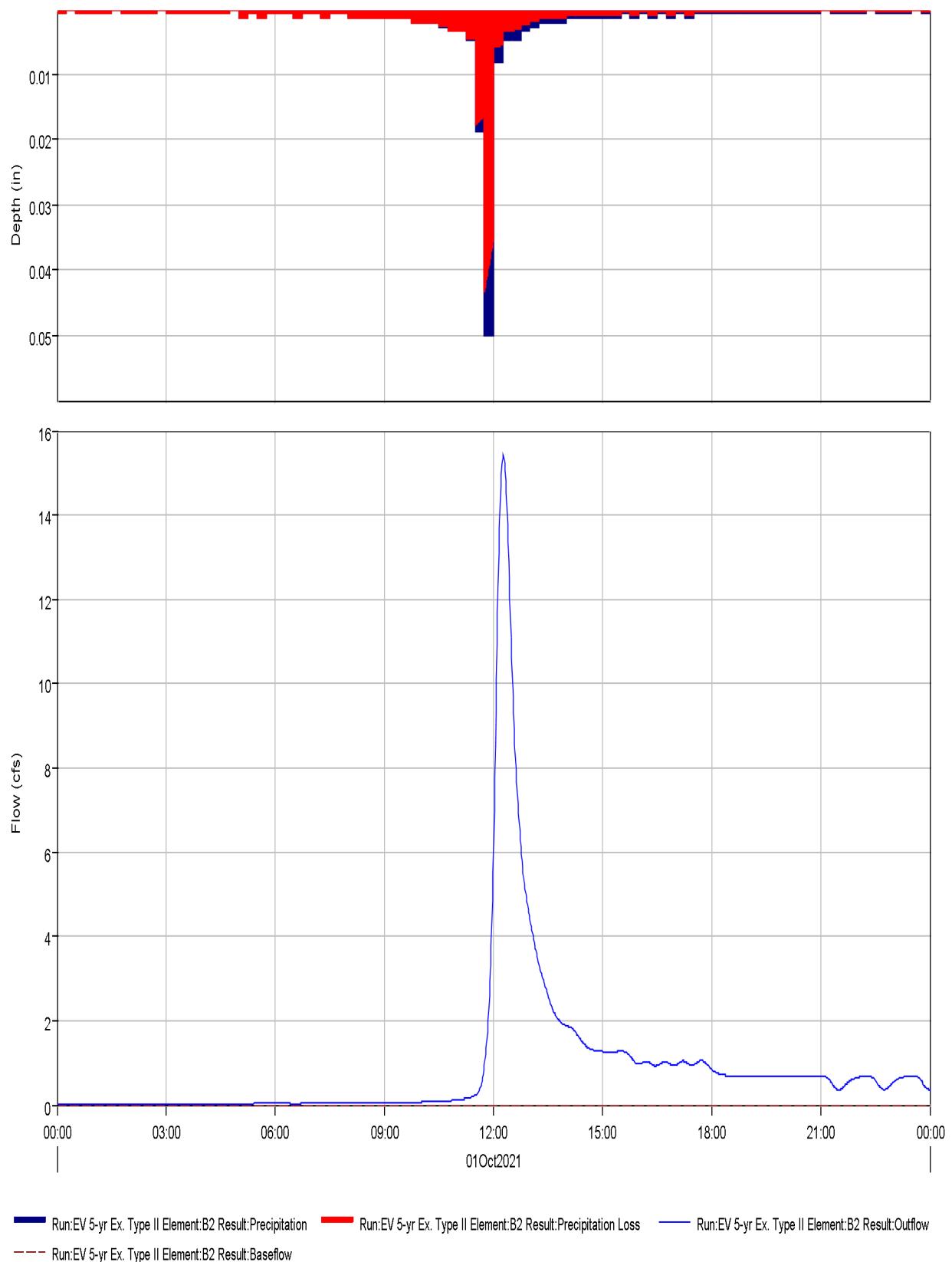
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: B1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	3.0 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:11
Total Precipitation :	1.3 (AC-FT)	Total Direct Runoff :	0.3 (AC-FT)
Total Loss :	1.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.3 (AC-FT)	Discharge :	0.3 (AC-FT)

Subbasin "B2" Results for Run "EV 5-yr Ex. Type II"



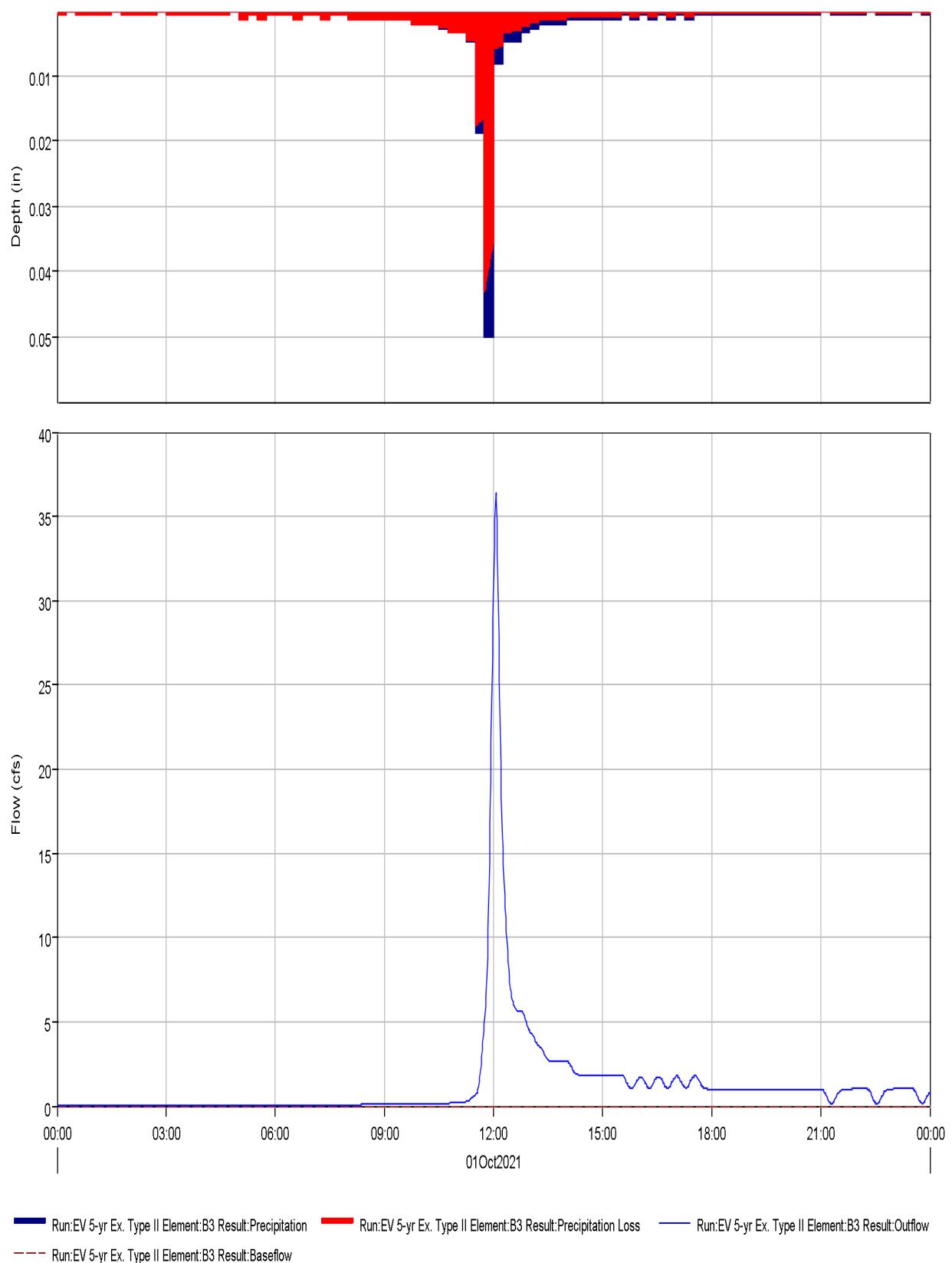
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: B2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	15.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:16
Total Precipitation :	9.3 (AC-FT)	Total Direct Runoff :	1.8 (AC-FT)
Total Loss :	7.5 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.9 (AC-FT)	Discharge :	1.8 (AC-FT)

Subbasin "B3" Results for Run "EV 5-yr Ex. Type II"



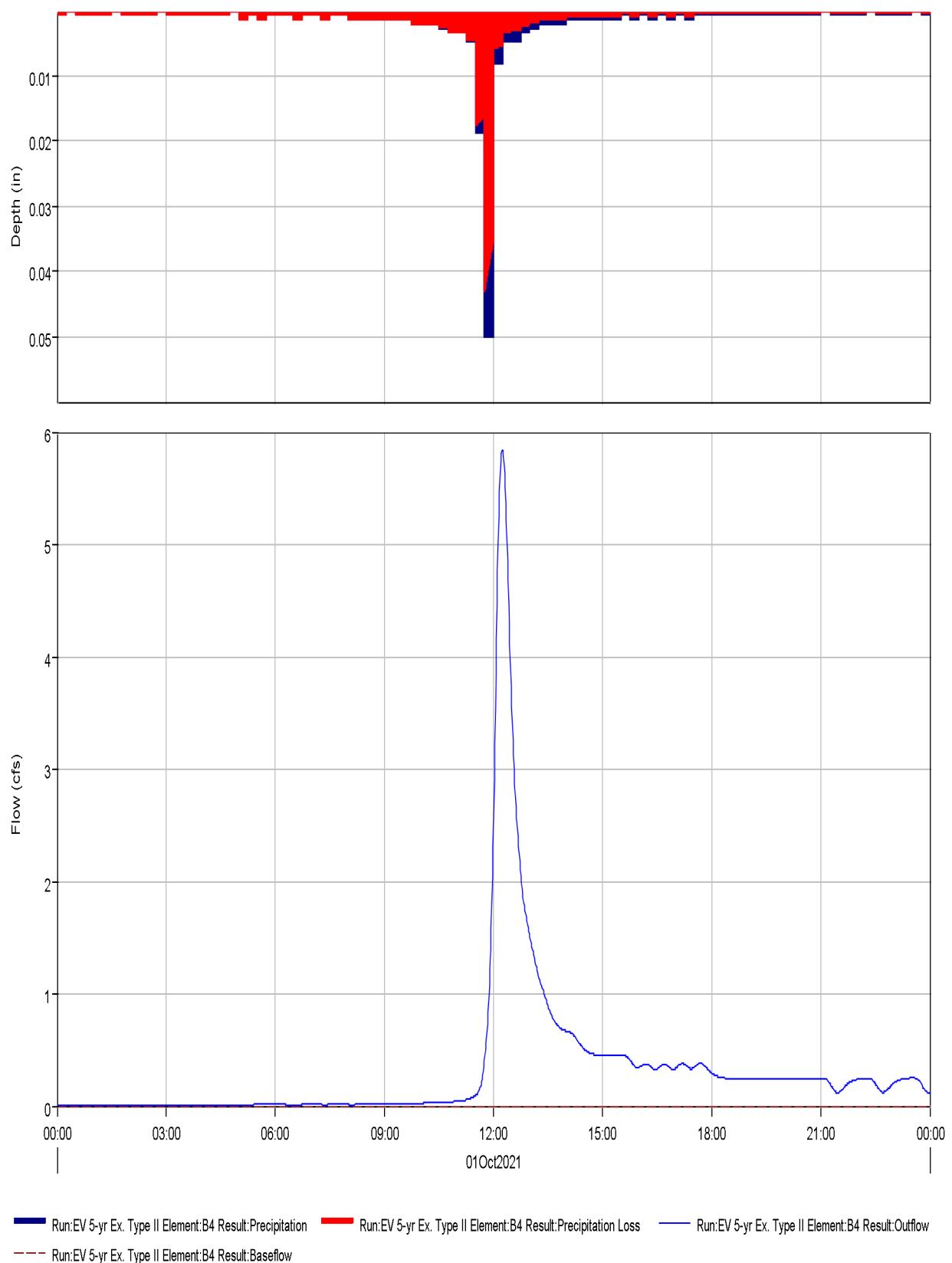
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: B3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	36.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:04
Total Precipitation :	13.4 (AC-FT)	Total Direct Runoff :	2.7 (AC-FT)
Total Loss :	10.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.7 (AC-FT)	Discharge :	2.7 (AC-FT)

Subbasin "B4" Results for Run "EV 5-yr Ex. Type II"



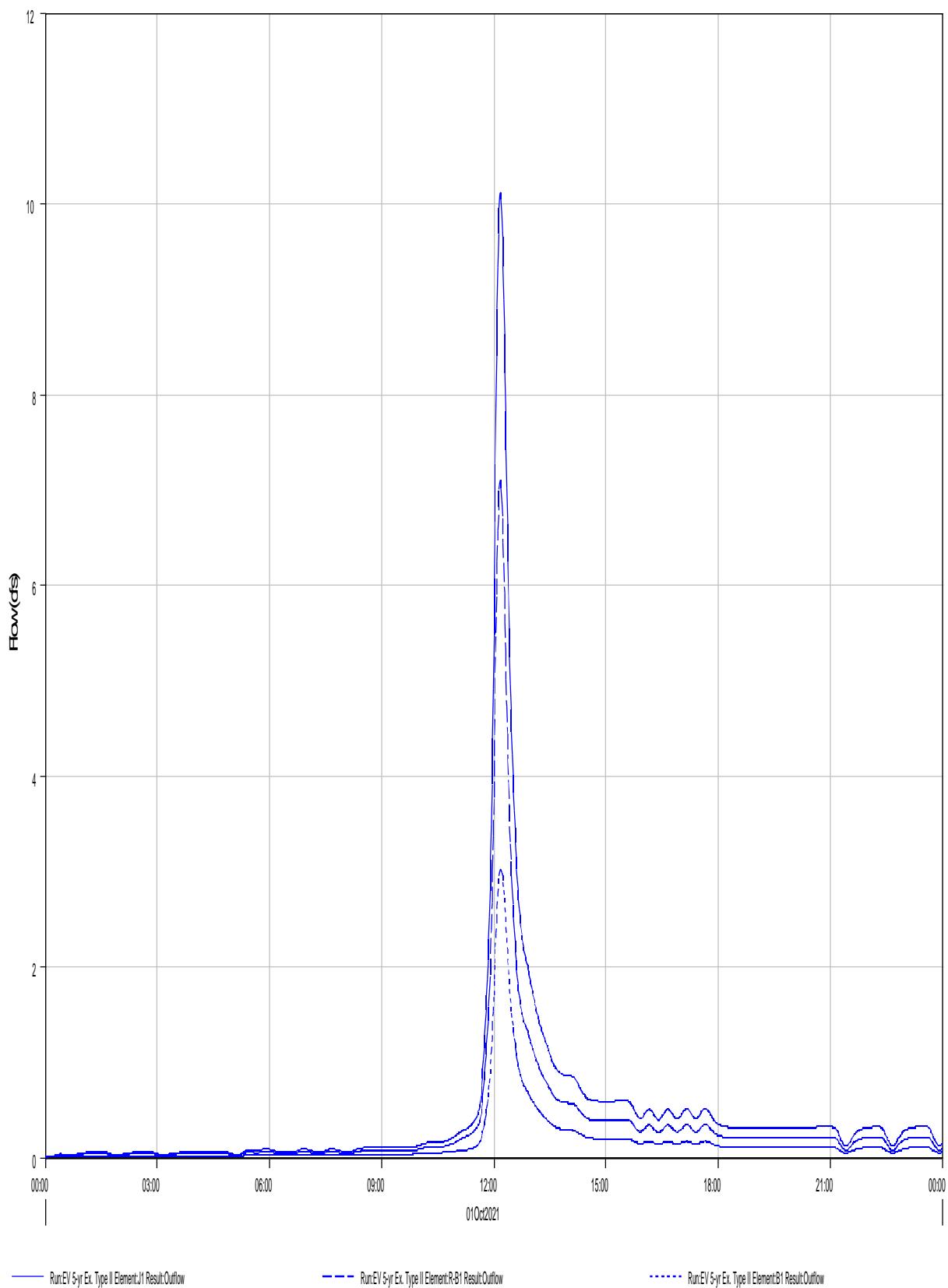
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: B4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	5.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:14
Total Precipitation :	3.3 (AC-FT)	Total Direct Runoff :	0.7 (AC-FT)
Total Loss :	2.6 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.7 (AC-FT)	Discharge :	0.7 (AC-FT)

Junction "J1" Results for Run "EV 5-yr Ex. Type II"



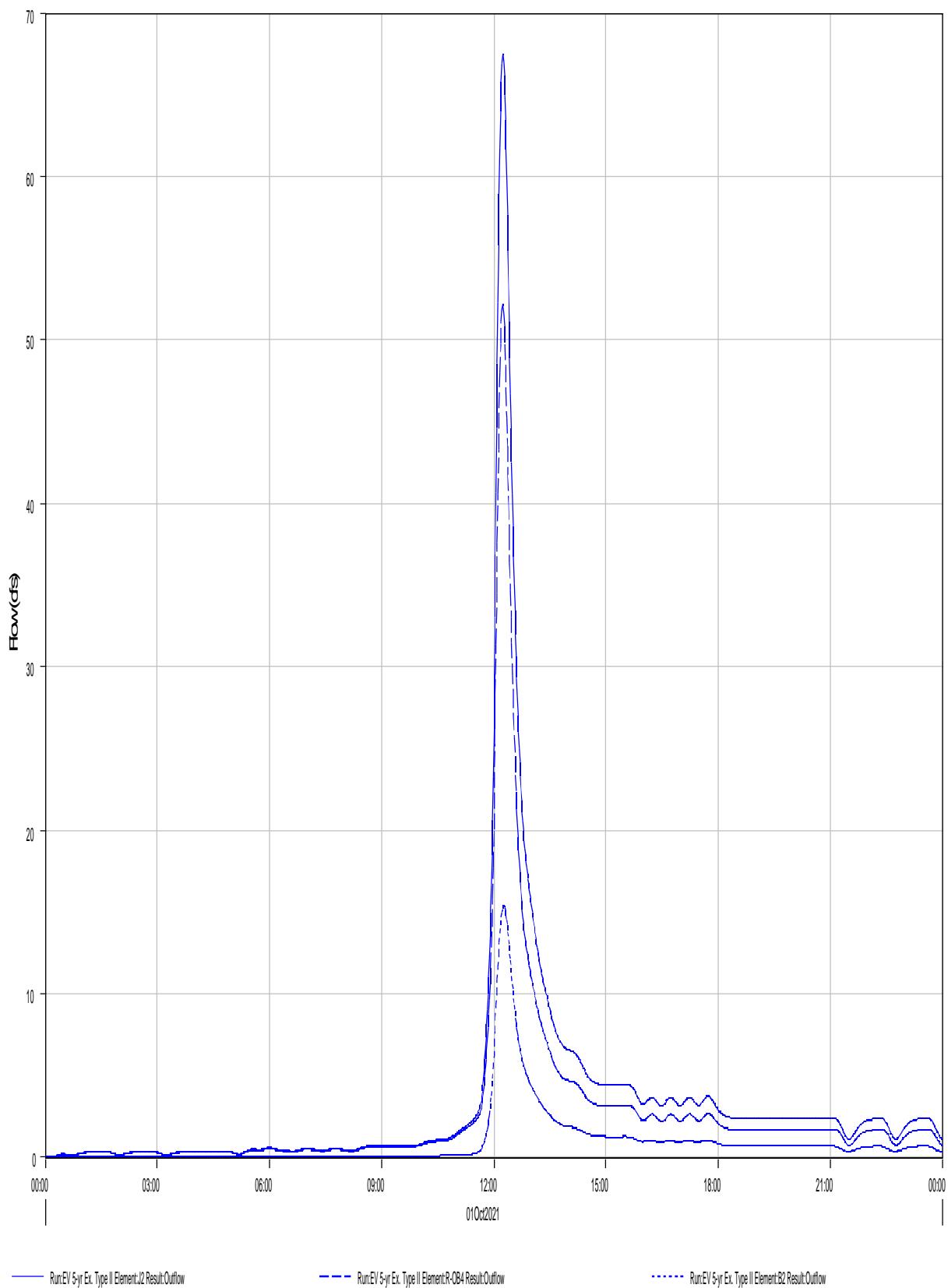
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Junction: J1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 10.1 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:11
Total Outflow : 1.0 (AC-FT)

Junction "J2" Results for Run "EV 5-yr Ex. Type II"



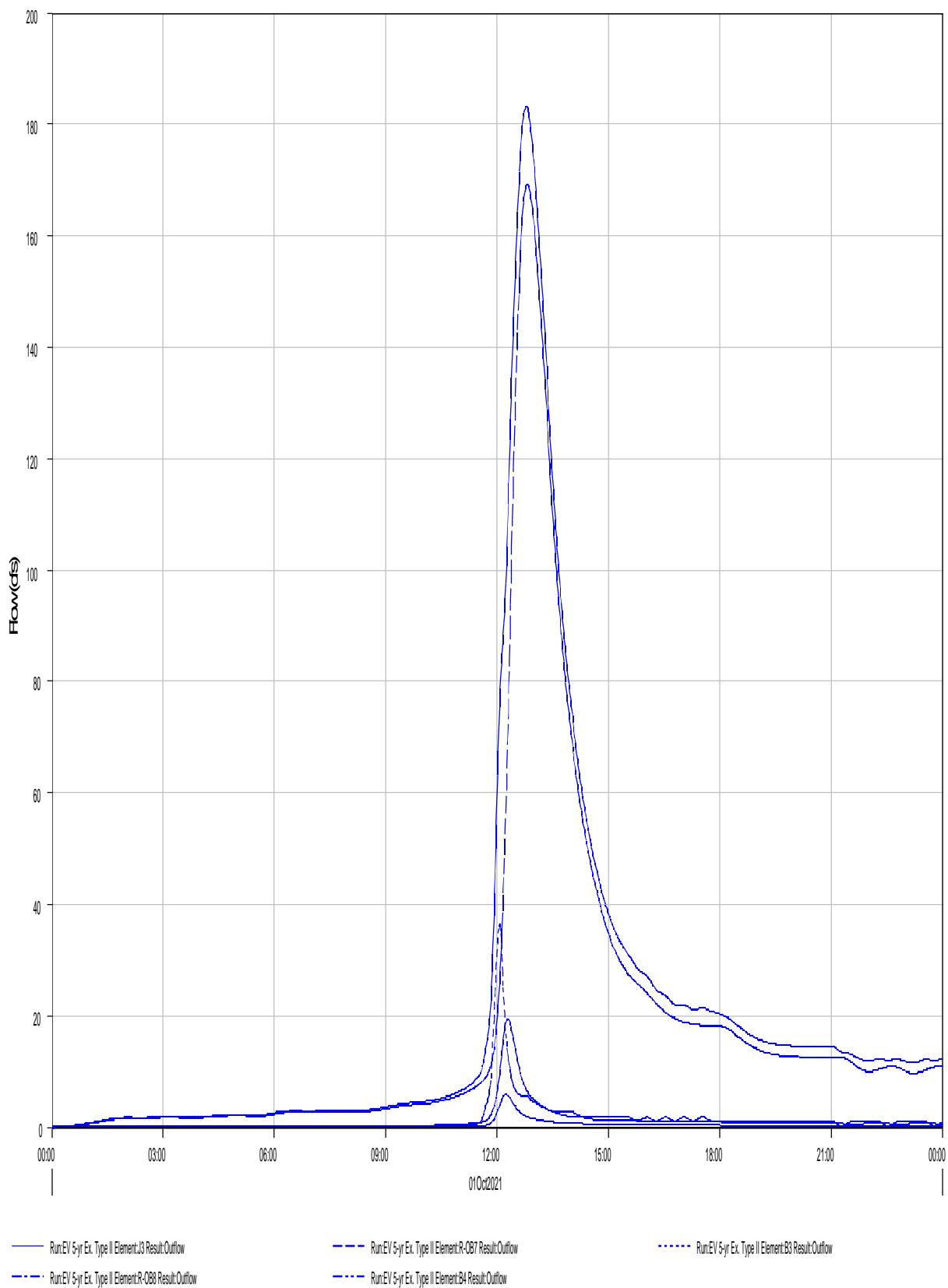
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Junction: J2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 67.5 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:15
Total Outflow : 7.3 (AC-FT)

Junction "J3" Results for Run "EV 5-yr Ex. Type II"



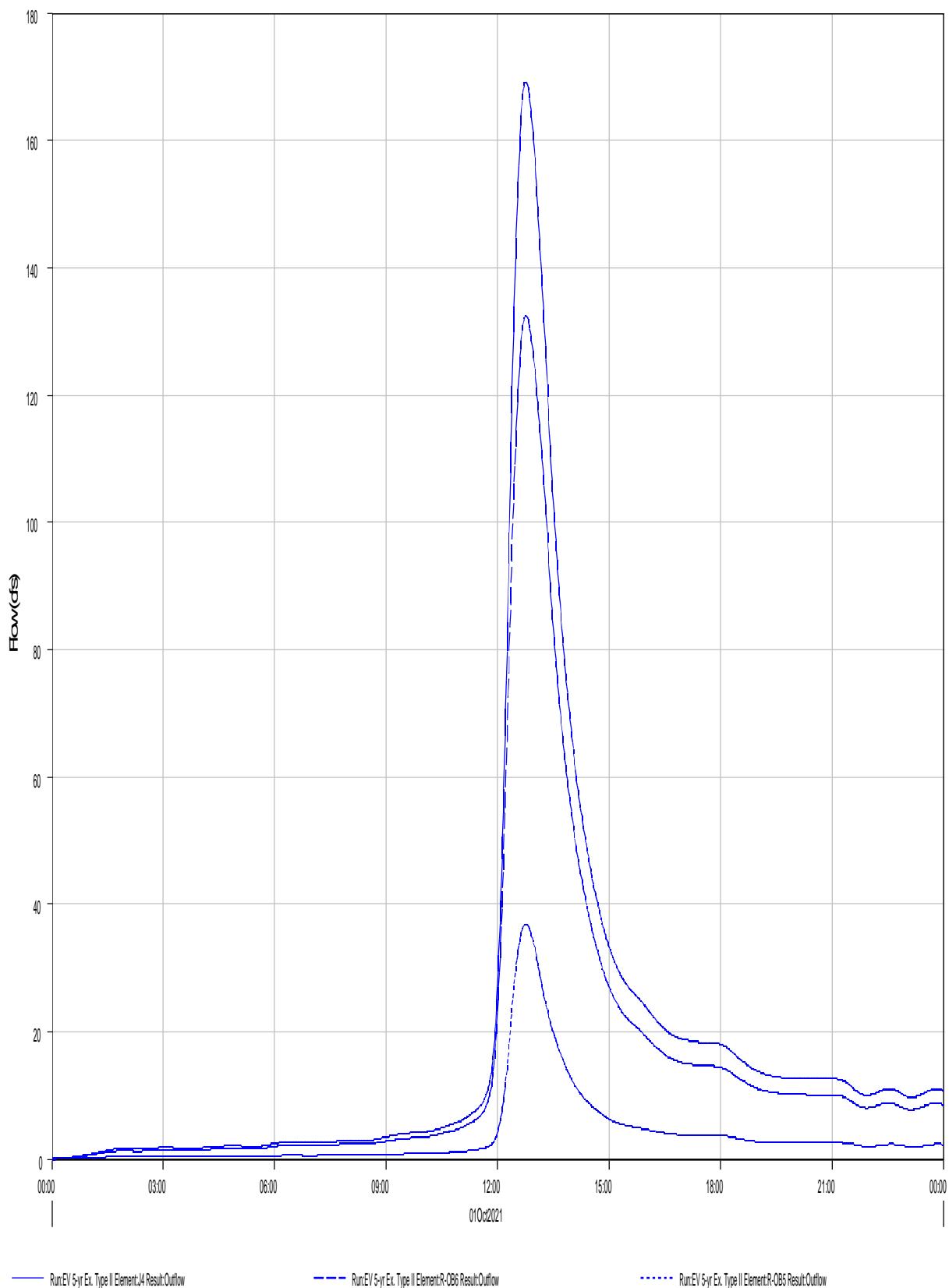
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Junction: J3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 183.1 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:47
Total Outflow : 42.8 (AC-FT)

Junction "J4" Results for Run "EV 5-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Junction: J4

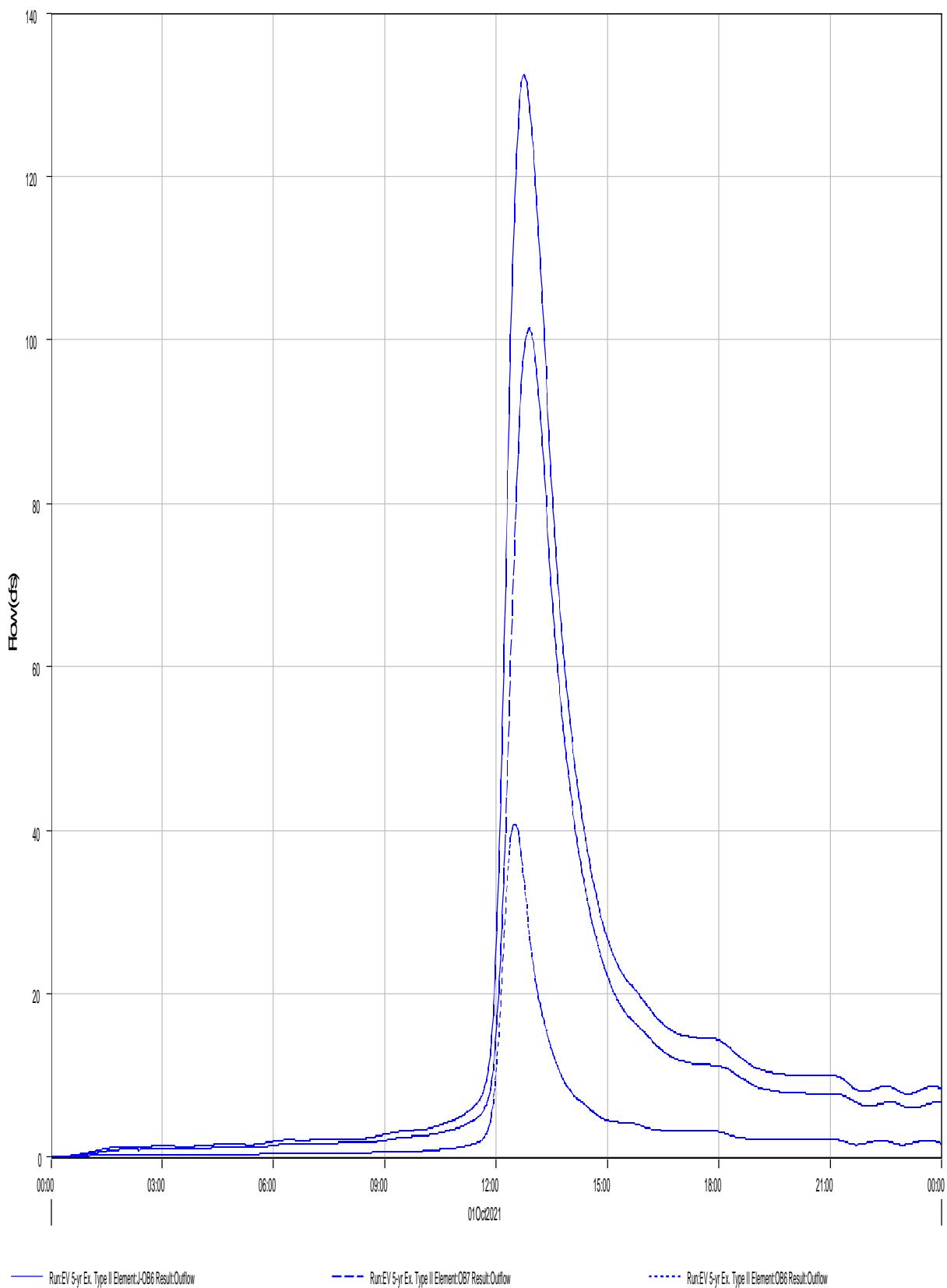
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 169.2 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:46
Total Outflow : 37.4 (AC-FT)

Junction "J-OB6" Results for Run "EV 5-yr Ex. Type II"



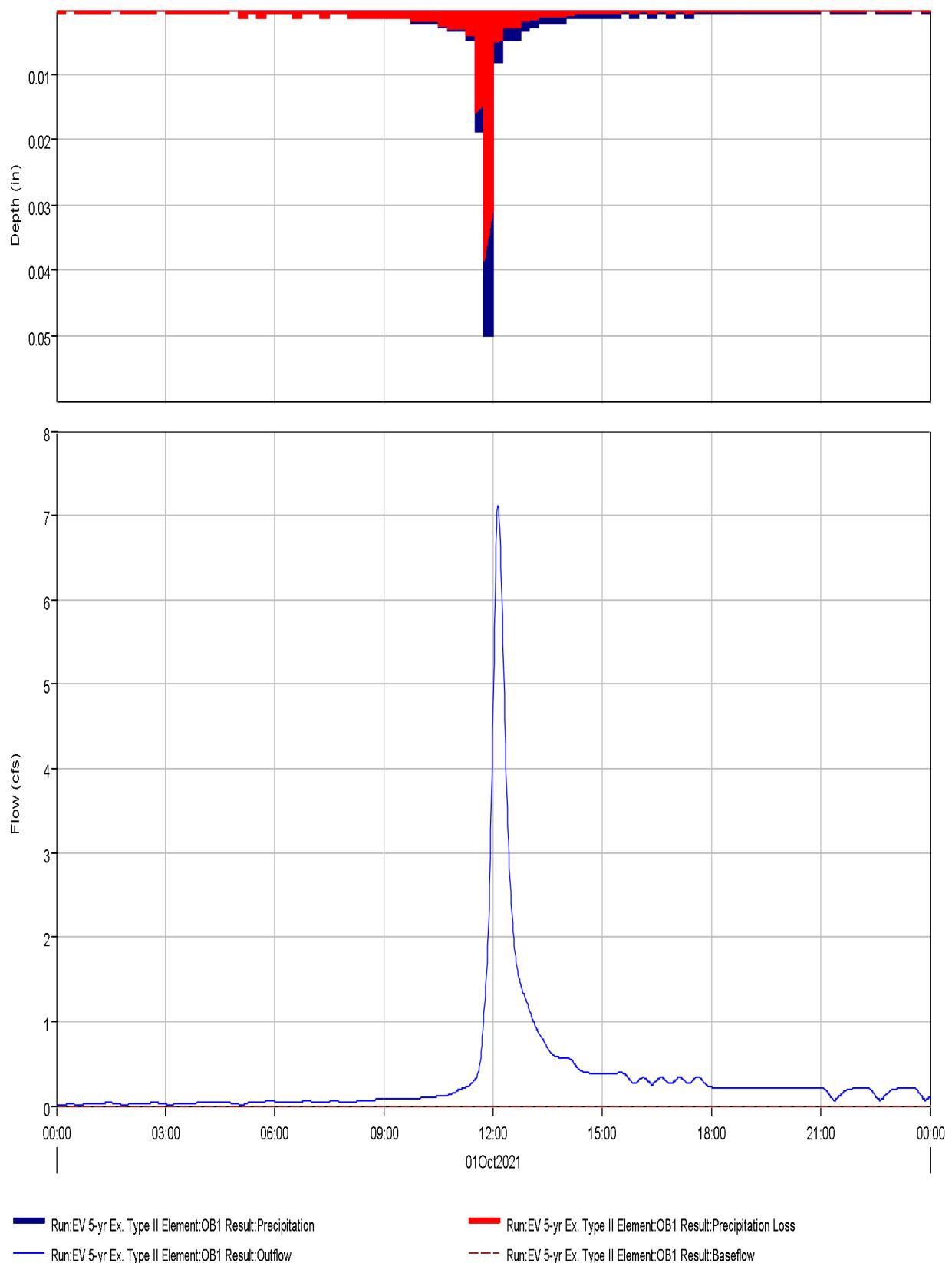
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Junction: J-OB6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 132.4 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:45
Total Outflow : 30.1 (AC-FT)

Subbasin "OB1" Results for Run "EV 5-yr Ex. Type II"



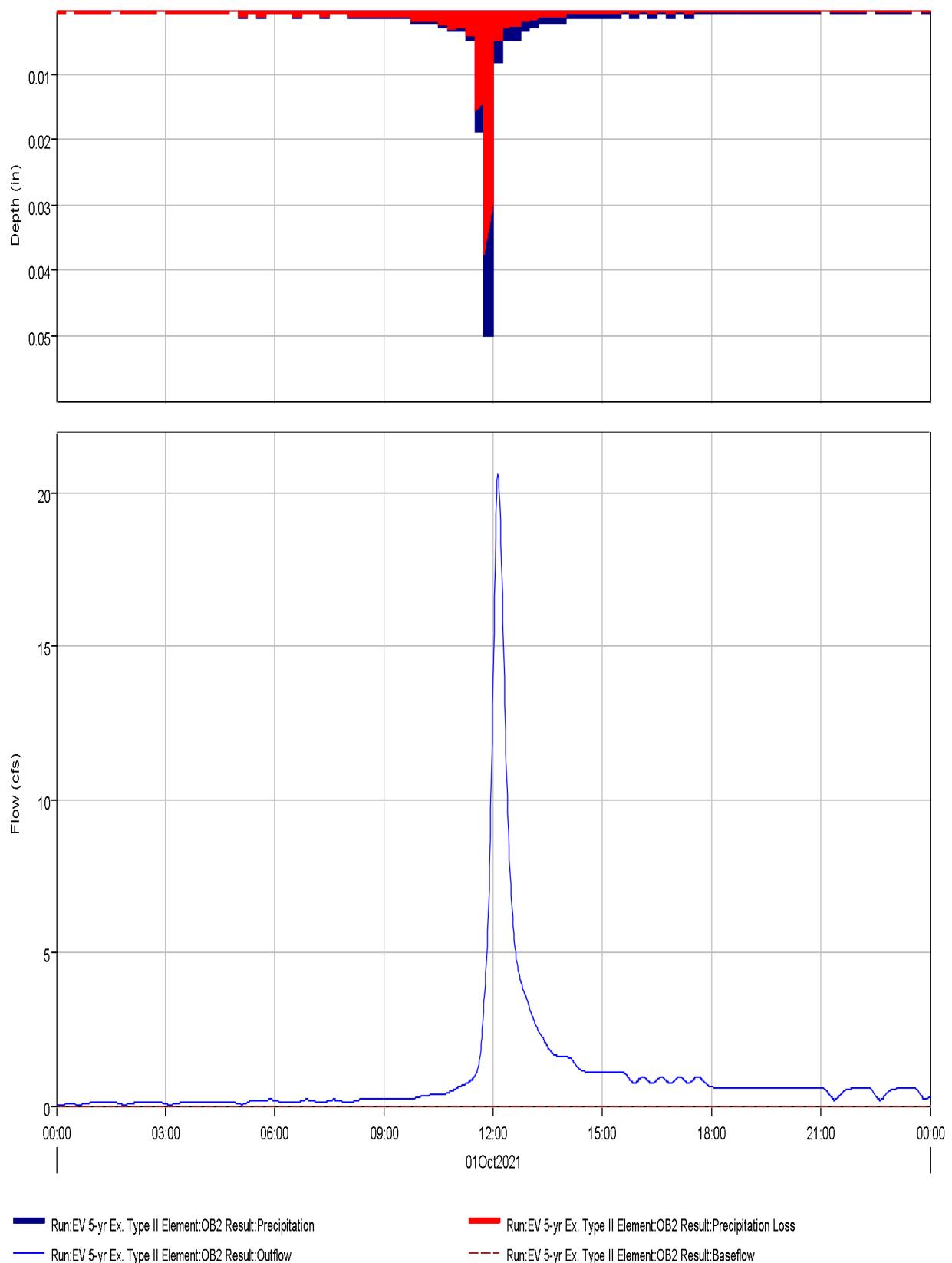
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	7.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	2.3 (AC-FT)	Total Direct Runoff :	0.7 (AC-FT)
Total Loss :	1.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.7 (AC-FT)	Discharge :	0.7 (AC-FT)

Subbasin "OB2" Results for Run "EV 5-yr Ex. Type II"



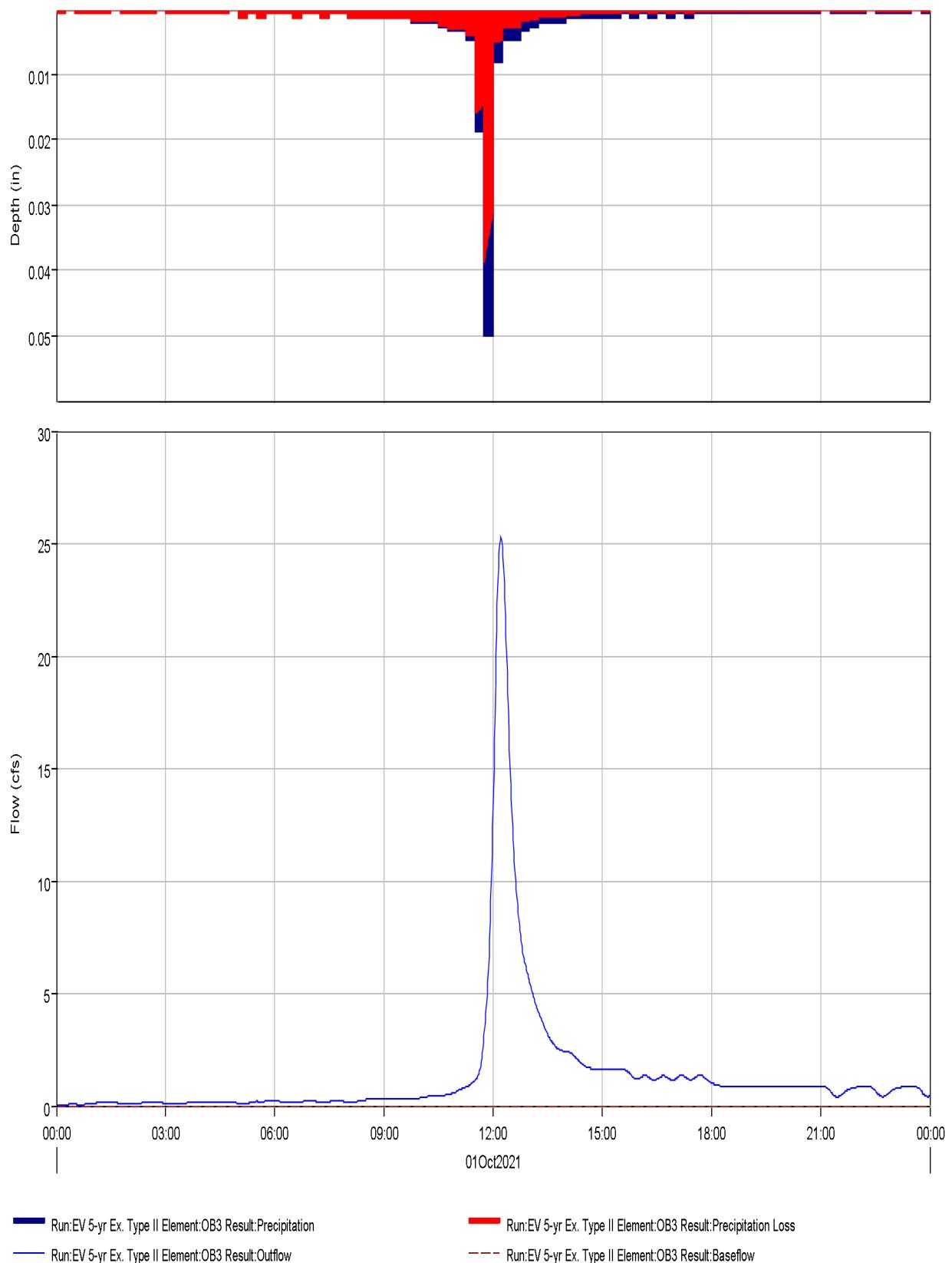
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	20.6 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	6.3 (AC-FT)	Total Direct Runoff :	1.9 (AC-FT)
Total Loss :	4.4 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.9 (AC-FT)	Discharge :	1.9 (AC-FT)

Subbasin "OB3" Results for Run "EV 5-yr Ex. Type II"



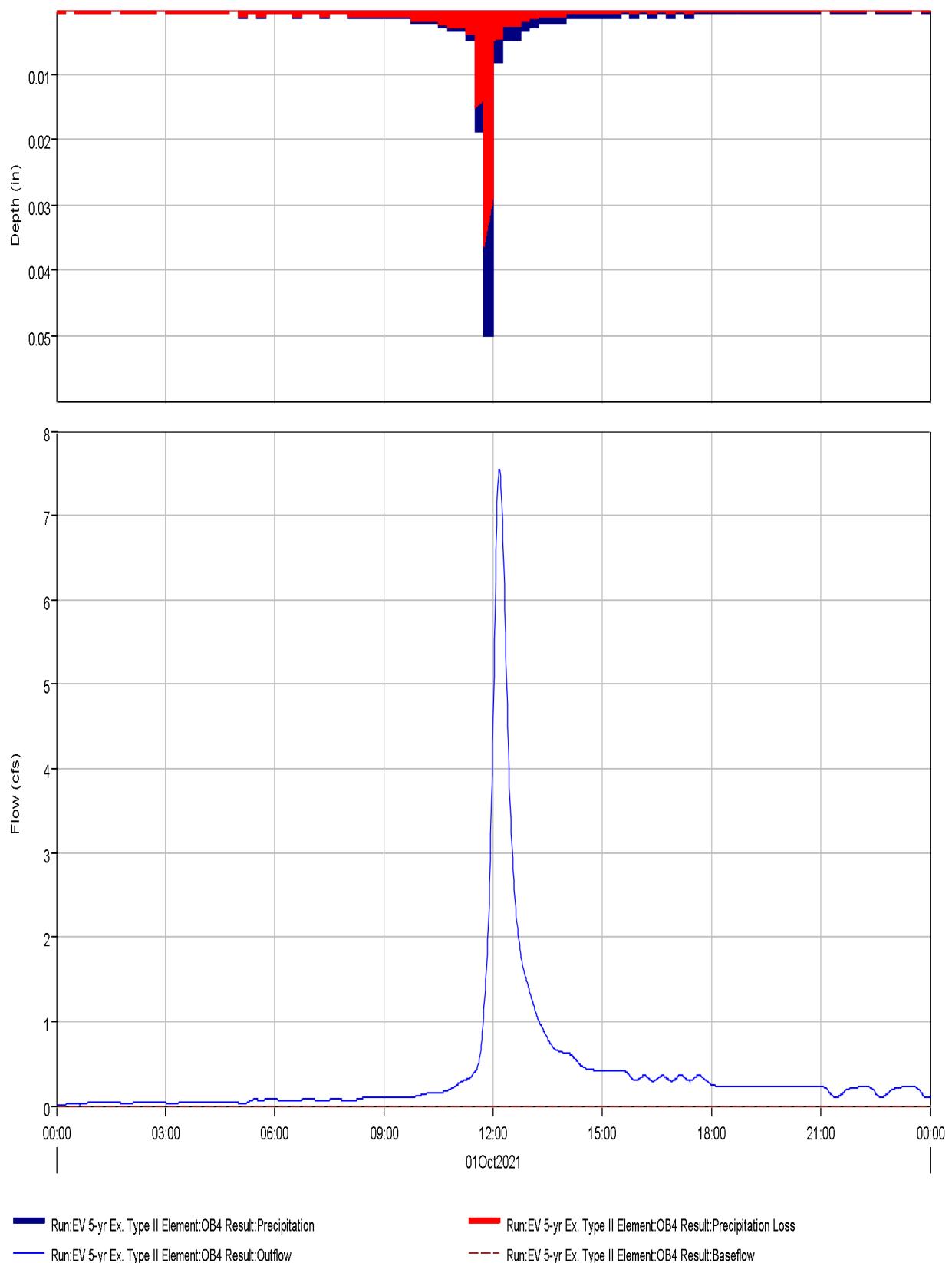
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	25.3 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:13
Total Precipitation :	9.8 (AC-FT)	Total Direct Runoff :	2.8 (AC-FT)
Total Loss :	7.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.8 (AC-FT)	Discharge :	2.8 (AC-FT)

Subbasin "OB4" Results for Run "EV 5-yr Ex. Type II"



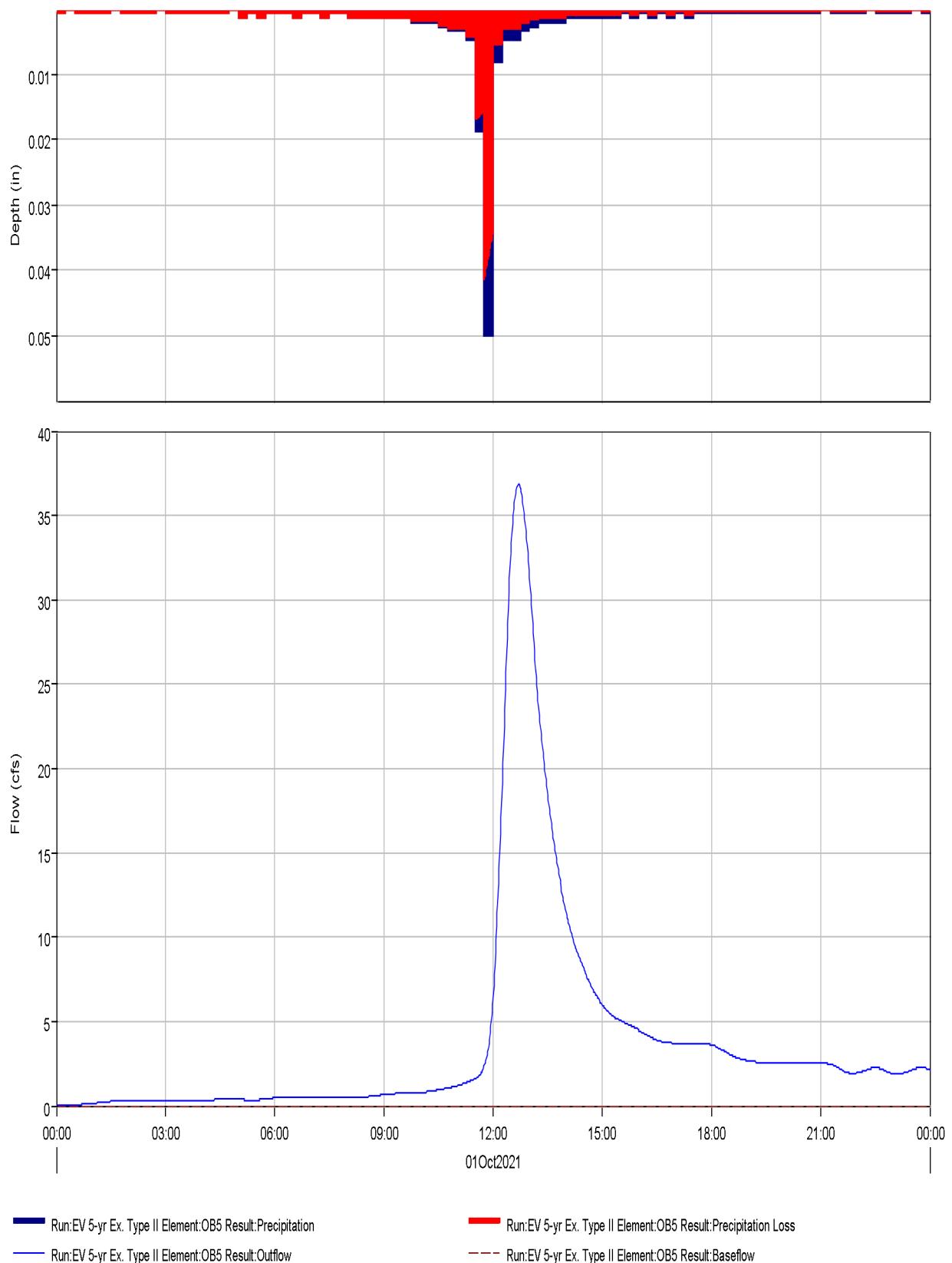
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	7.5 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	2.4 (AC-FT)	Total Direct Runoff :	0.8 (AC-FT)
Total Loss :	1.6 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.8 (AC-FT)	Discharge :	0.8 (AC-FT)

Subbasin "OB5" Results for Run "EV 5-yr Ex. Type II"



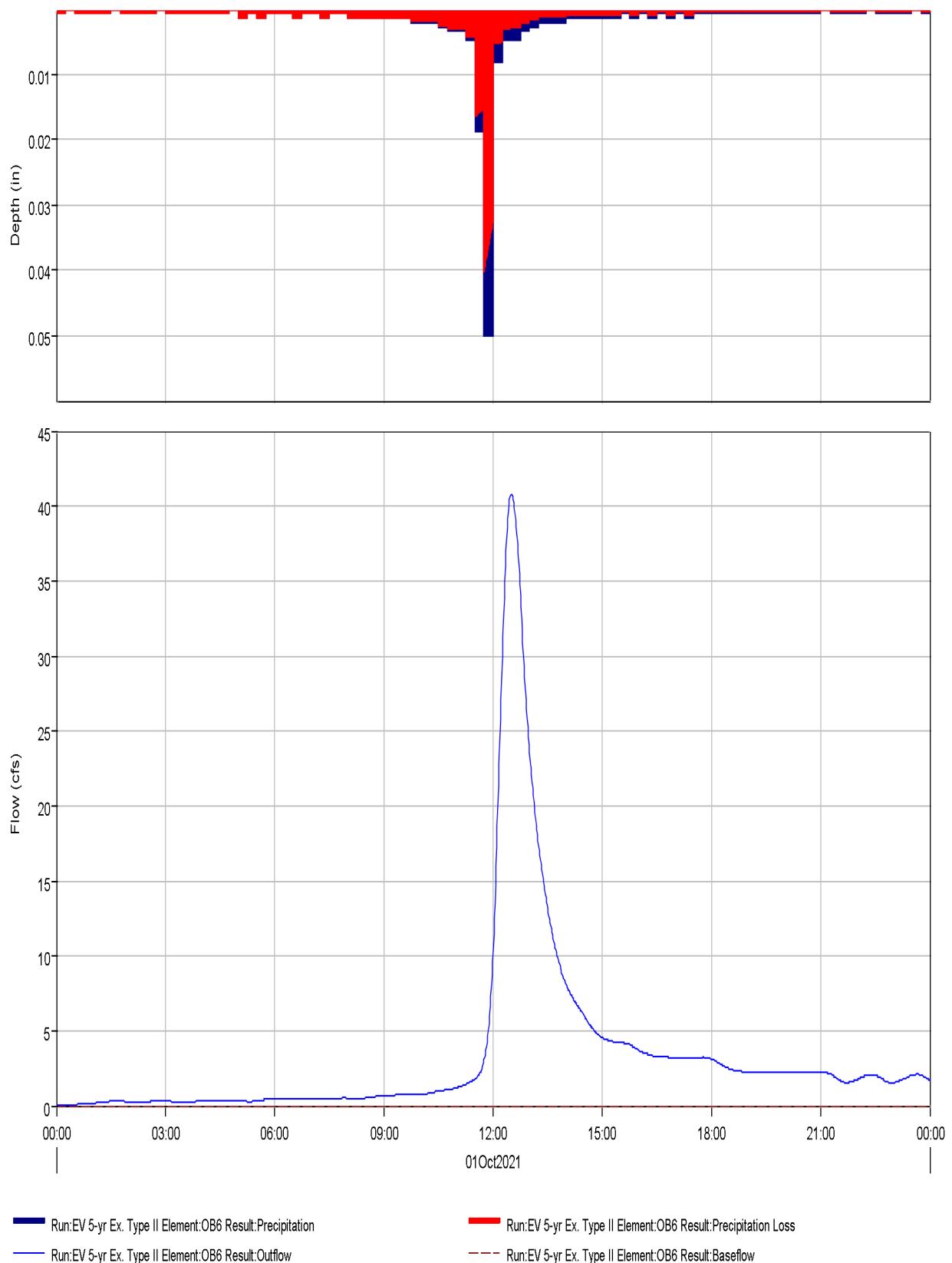
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB5
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	36.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:42
Total Precipitation :	32.4 (AC-FT)	Total Direct Runoff :	7.4 (AC-FT)
Total Loss :	24.8 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	7.6 (AC-FT)	Discharge :	7.4 (AC-FT)

Subbasin "OB6" Results for Run "EV 5-yr Ex. Type II"



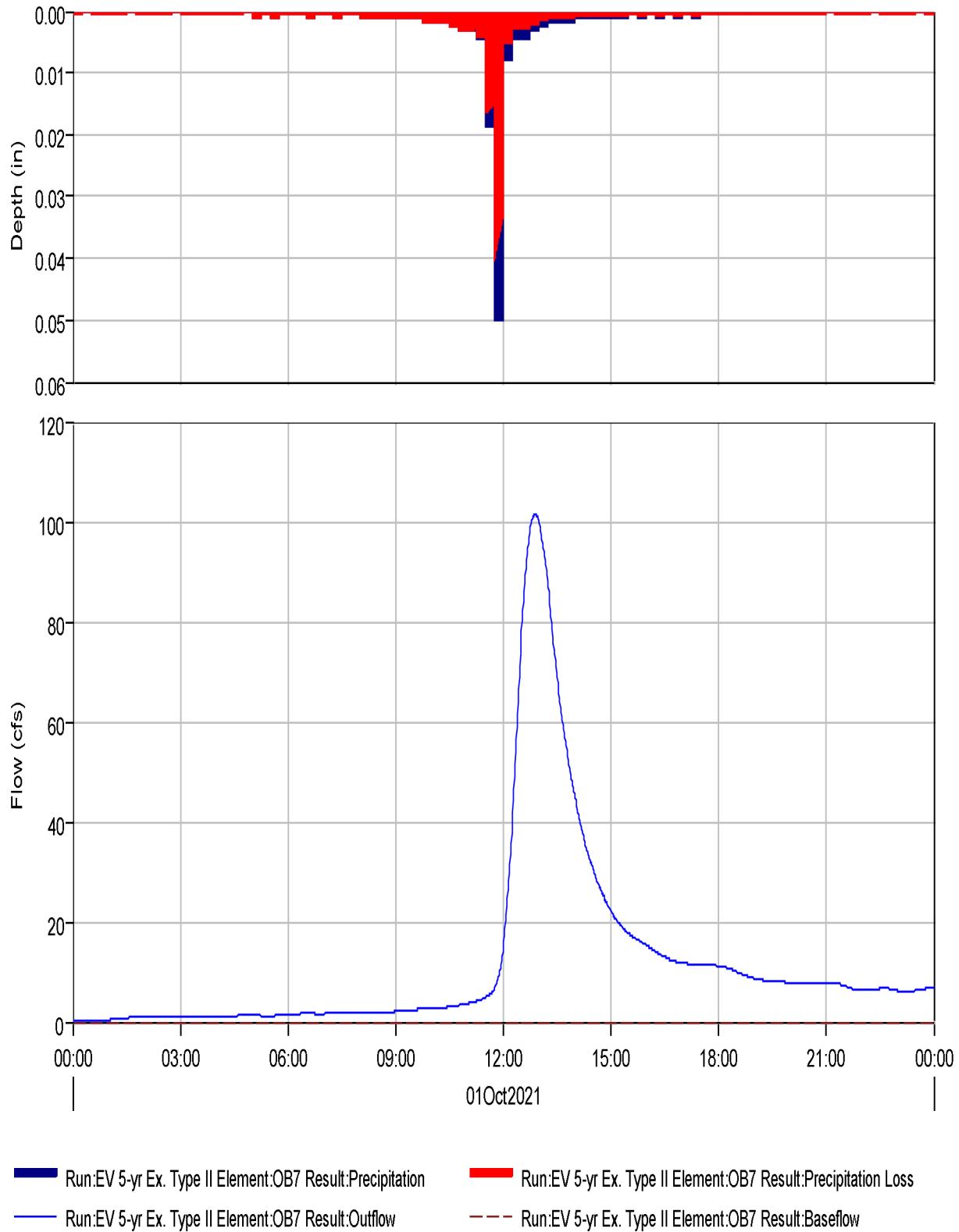
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	40.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:30
Total Precipitation :	26.6 (AC-FT)	Total Direct Runoff :	6.8 (AC-FT)
Total Loss :	19.8 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	6.9 (AC-FT)	Discharge :	6.8 (AC-FT)

Subbasin "OB7" Results for Run "EV 5-yr Ex. Type II"



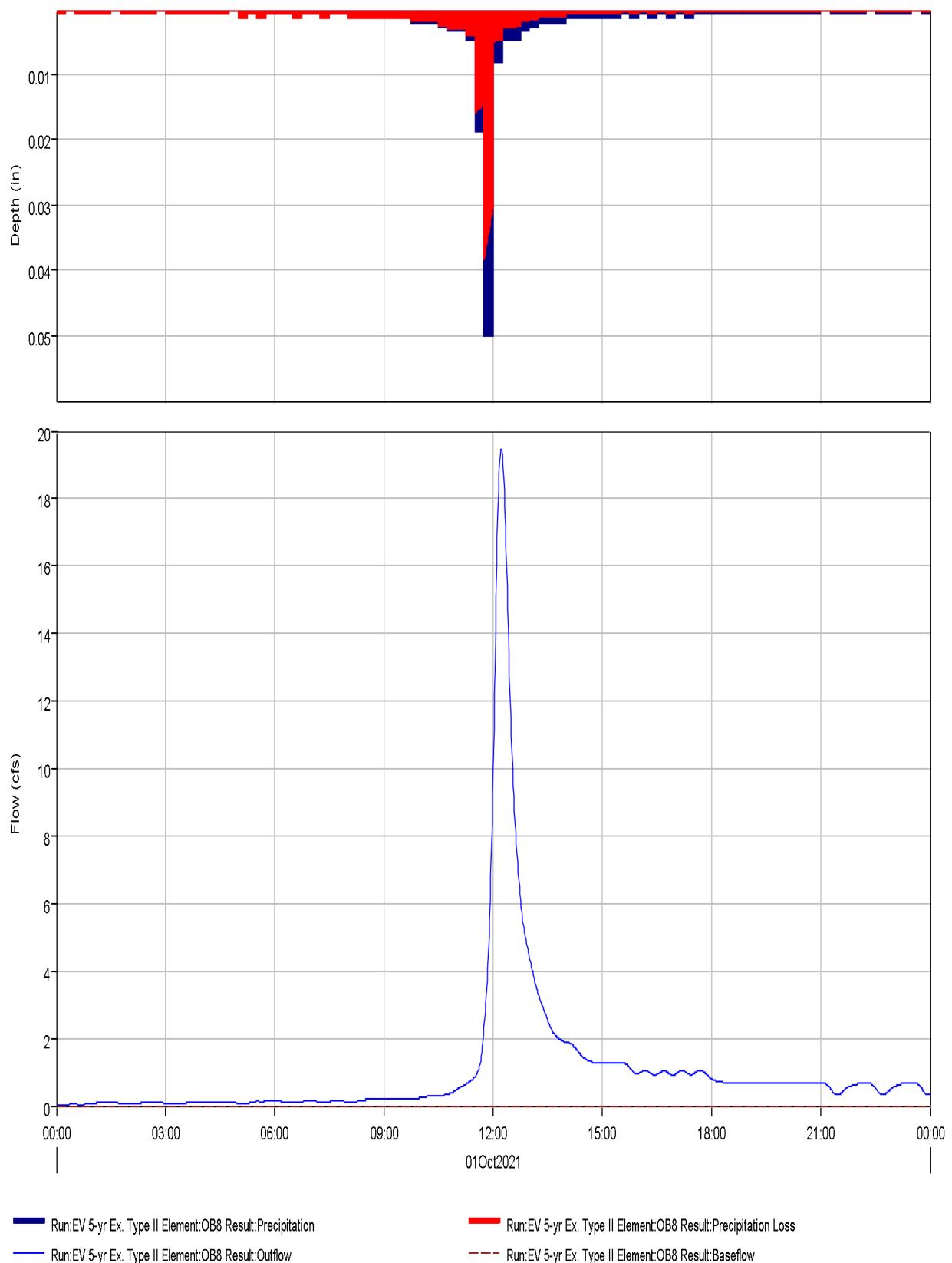
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB7
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	101.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:53
Total Precipitation :	94.8 (AC-FT)	Total Direct Runoff :	23.3 (AC-FT)
Total Loss :	70.9 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	23.9 (AC-FT)	Discharge :	23.3 (AC-FT)

Subbasin "OB8" Results for Run "EV 5-yr Ex. Type II"



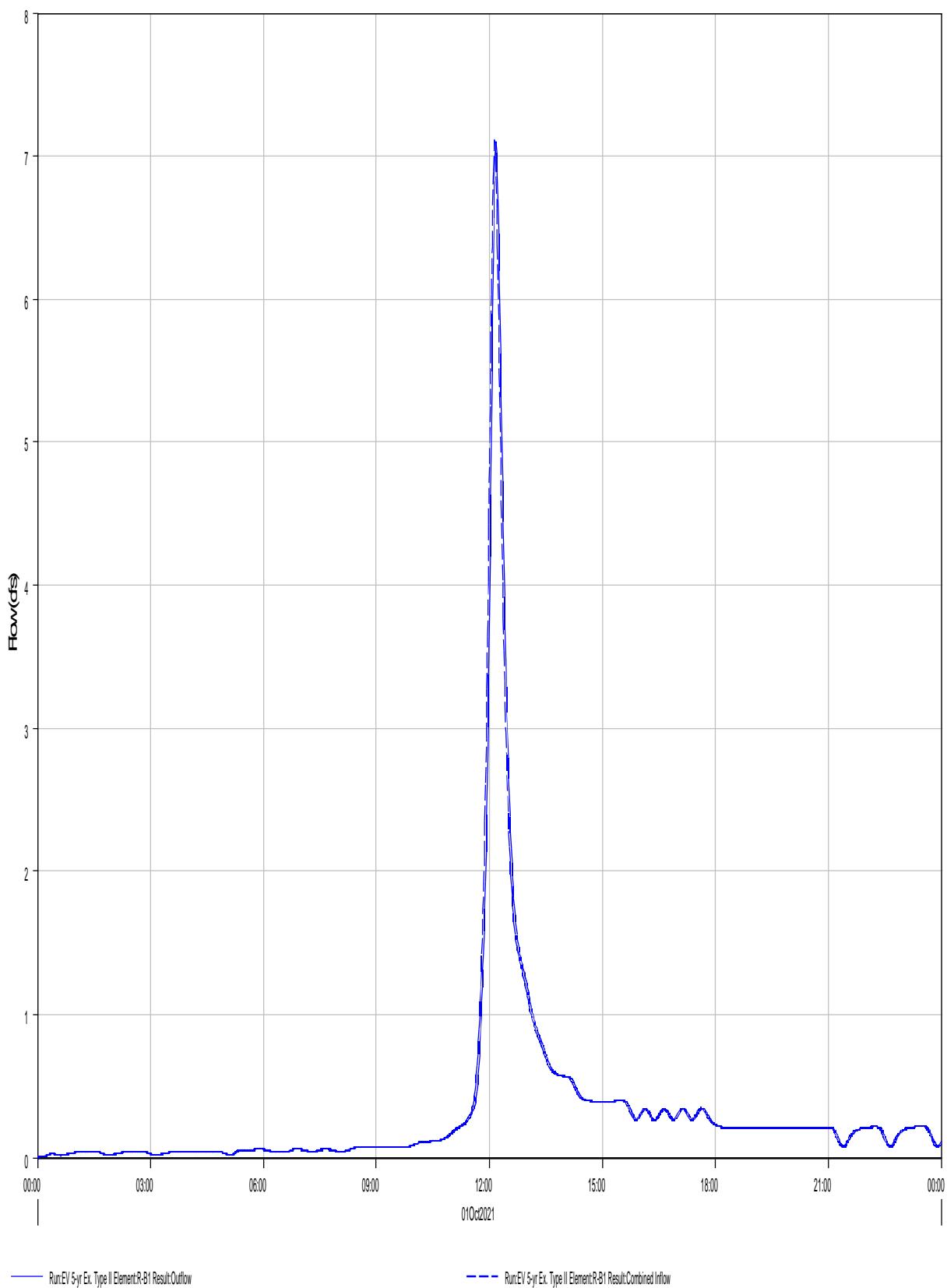
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Subbasin: OB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	19.5 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:13
Total Precipitation :	7.4 (AC-FT)	Total Direct Runoff :	2.1 (AC-FT)
Total Loss :	5.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.2 (AC-FT)	Discharge :	2.1 (AC-FT)

Reach 'R-B1' Results for Run 'EV 5-yr Ex. Type II'



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Reach: R-B1

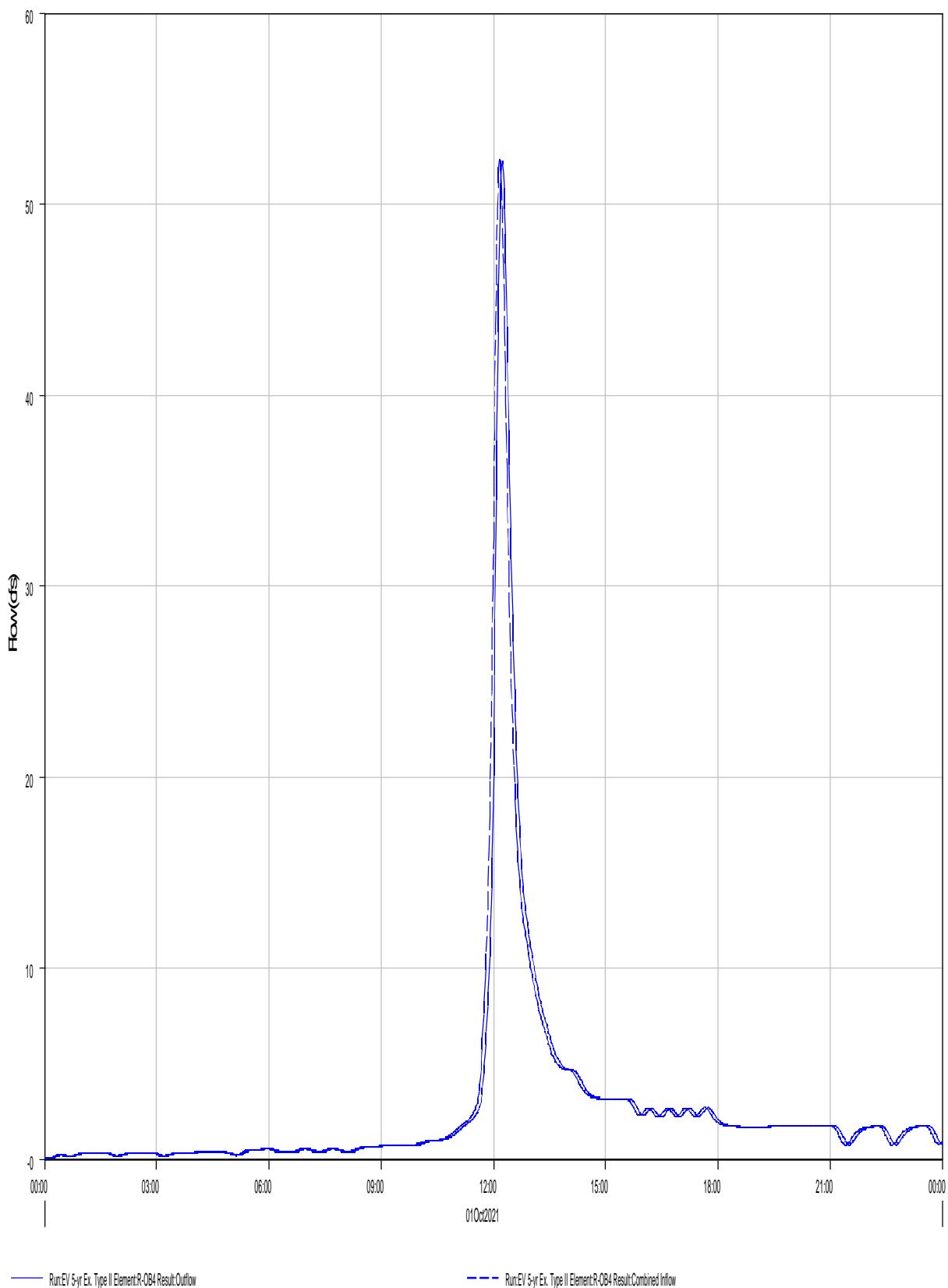
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	7.1 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	7.1 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:11
Total Inflow :	0.7 (AC-FT)	Total Outflow :	0.7 (AC-FT)

Reach "R-QB4" Results for Run "EV 5-yr Ex. Type II"



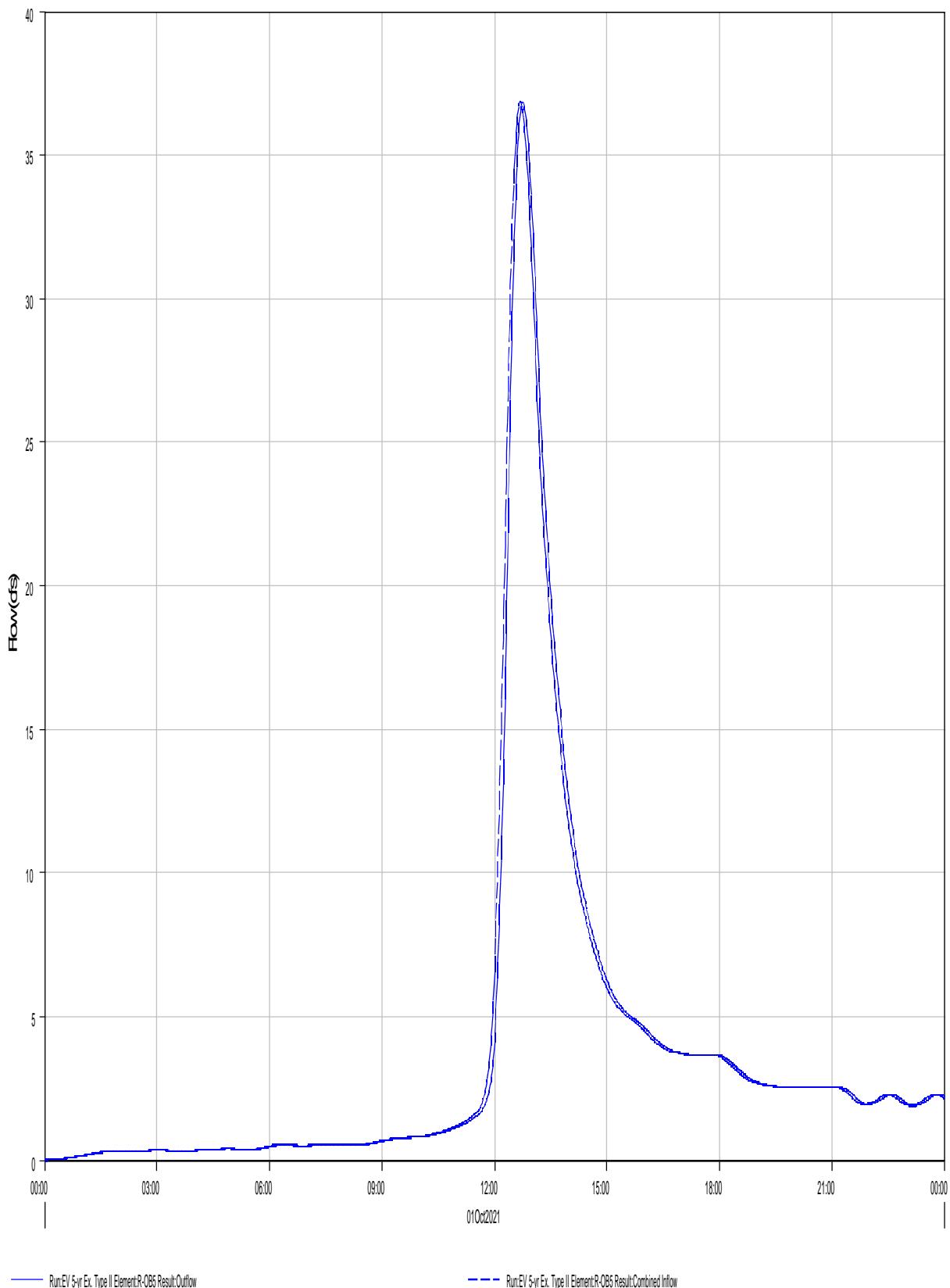
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Reach: R-OB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	52.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:10
Peak Outflow :	52.2 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:14
Total Inflow :	5.4 (AC-FT)	Total Outflow :	5.4 (AC-FT)

Reach "R-OBS" Results for Run "EV 5-yr Ex. Type II"



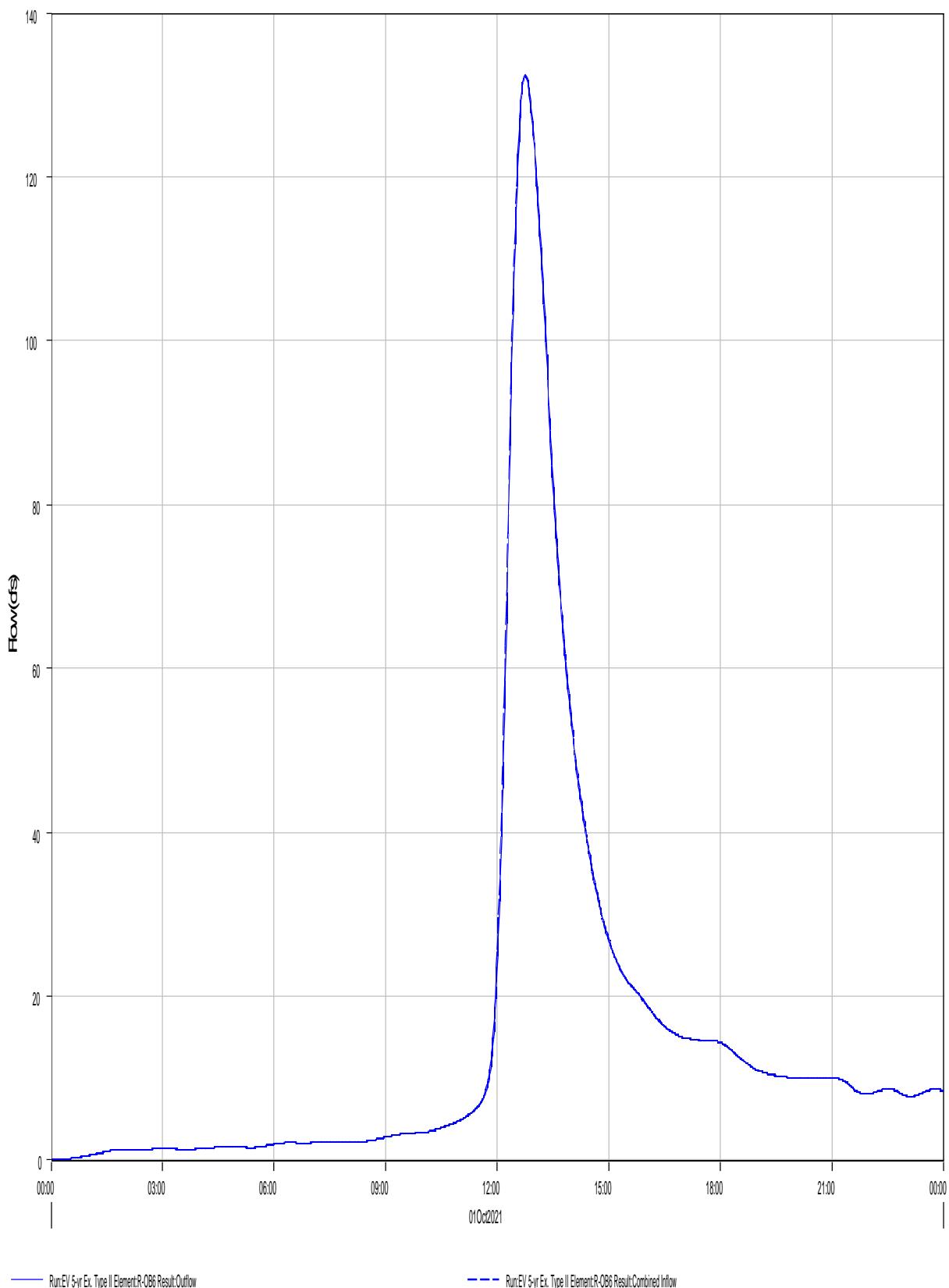
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Reach: R-OB5
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	36.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:42
Peak Outflow :	36.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:45
Total Inflow :	7.4 (AC-FT)	Total Outflow :	7.4 (AC-FT)

Reach "R-QB6" Results for Run "EV 5-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Reach: R-OB6

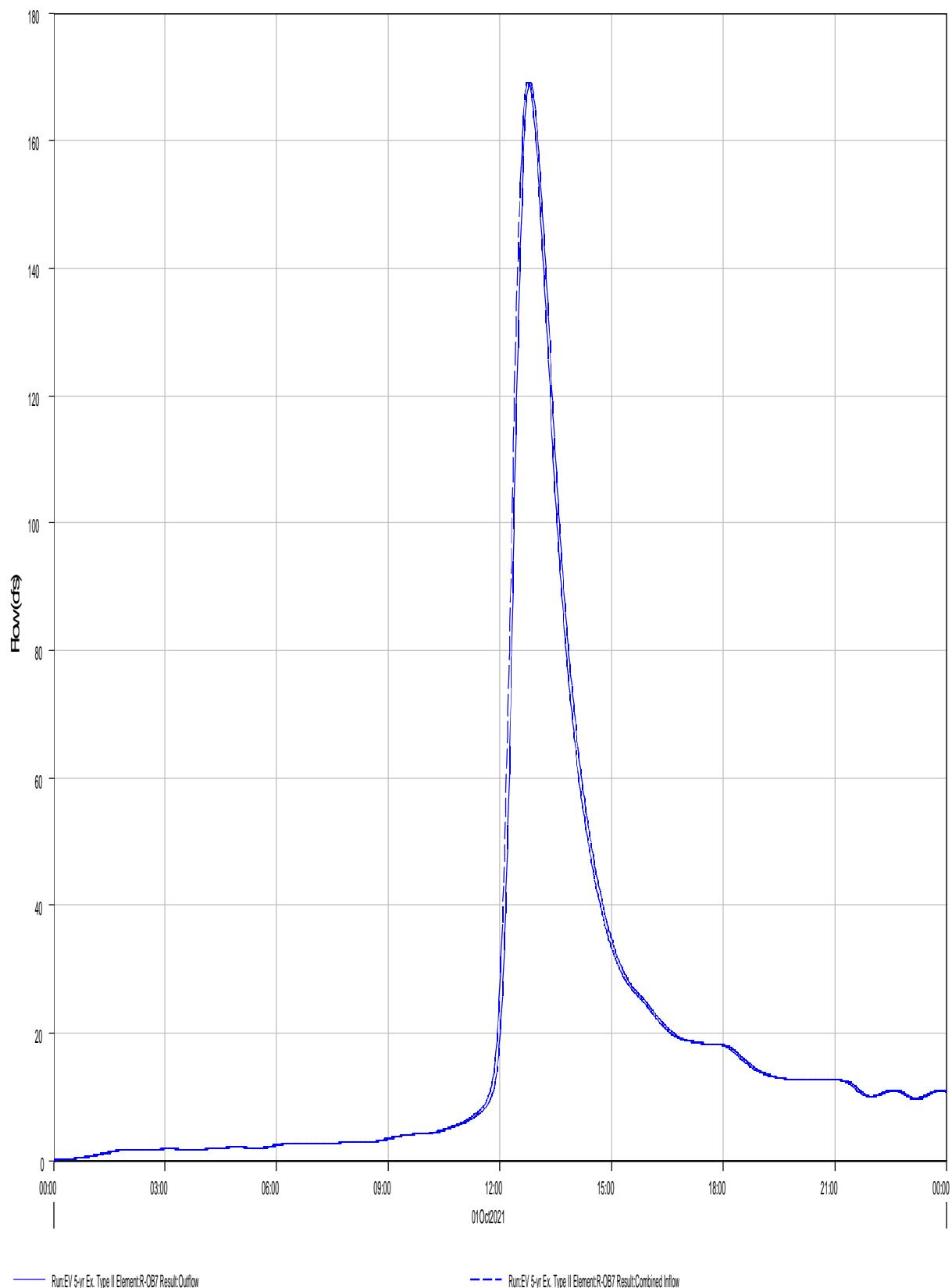
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	132.4 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:45
Peak Outflow :	132.4 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:46
Total Inflow :	30.1 (AC-FT)	Total Outflow :	30.0 (AC-FT)

Reach "R-QB7" Results for Run "EV 5-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Reach: R-OB7

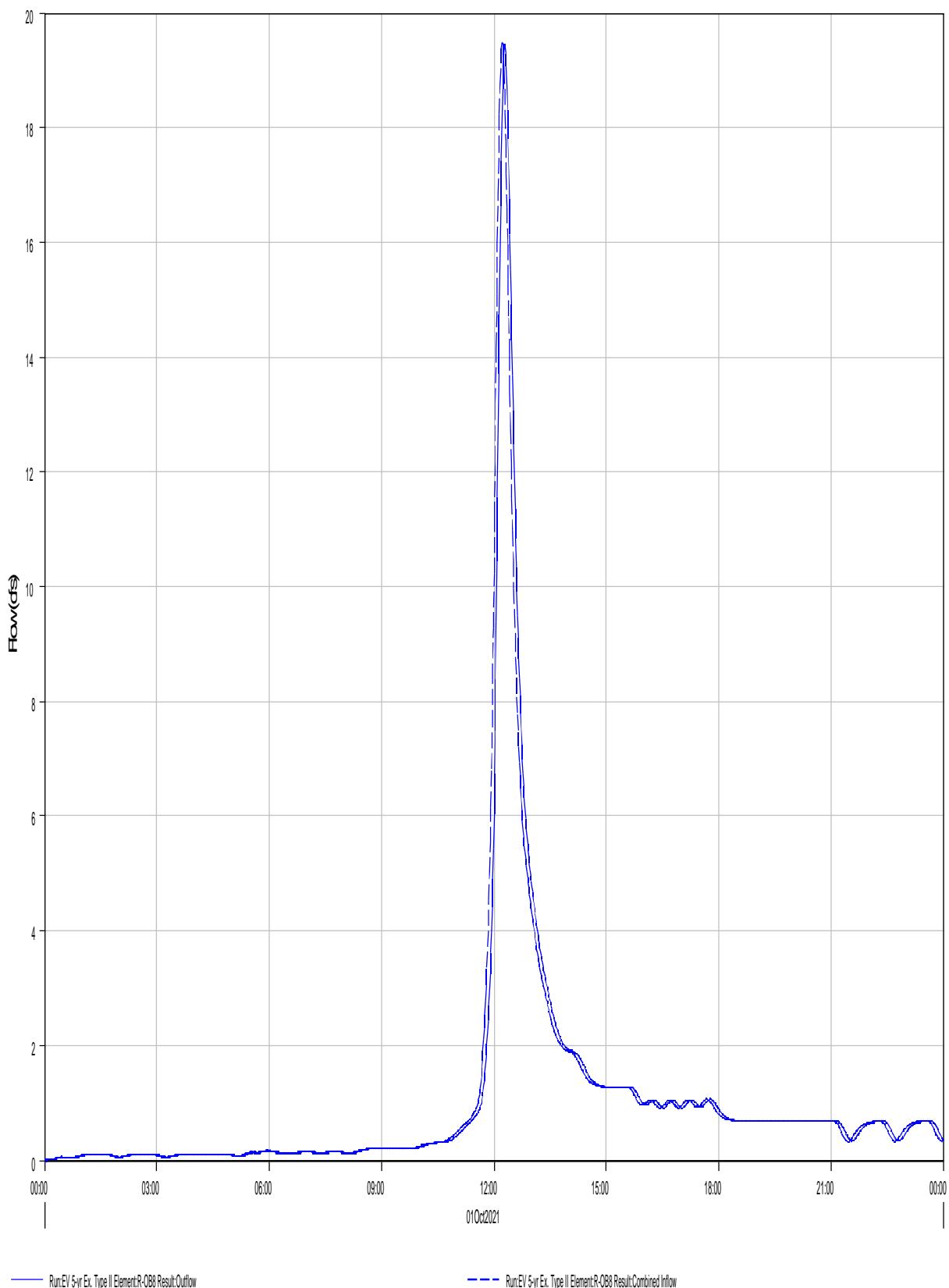
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	169.2 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:46
Peak Outflow :	169.2 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:49
Total Inflow :	37.4 (AC-FT)	Total Outflow :	37.3 (AC-FT)

Reach "R-OBB" Results for Run "EV 5-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Ex. Type II Reach: R-OB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 11Mar2022, 14:50:40 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

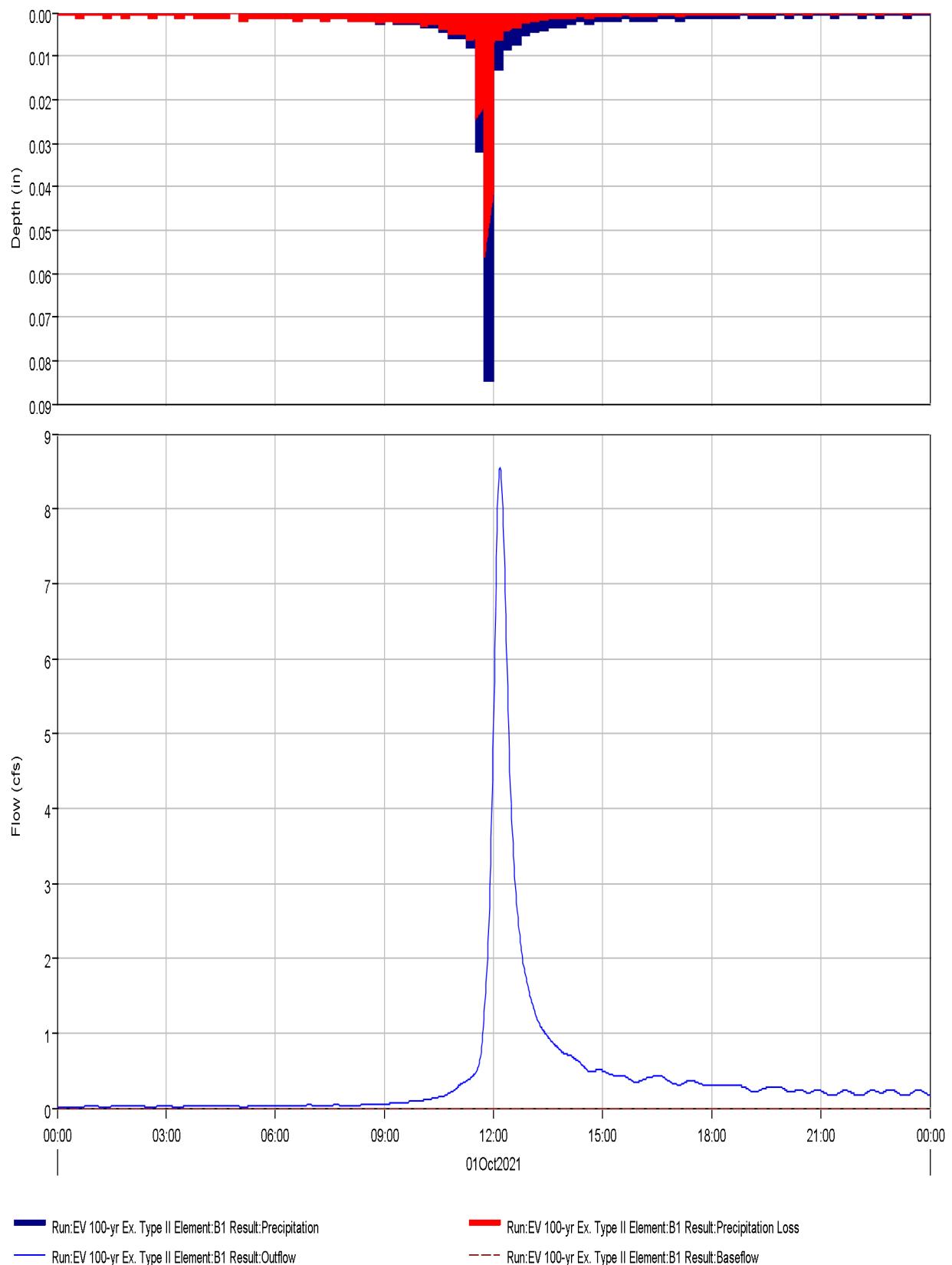
Peak Inflow :	19.5 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	19.4 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:17
Total Inflow :	2.1 (AC-FT)	Total Outflow :	2.1 (AC-FT)

Project: Eagleview_Subdivision Simulation Run: EV 100-yr Ex. Type II

Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
 End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
 Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
B1	0.0091800	8.5	01Oct2021, 12:11	0.8
B2	0.0647266	48.5	01Oct2021, 12:15	5.3
B3	0.0930359	110.0	01Oct2021, 12:04	7.8
B4	0.0229422	18.2	01Oct2021, 12:13	1.9
J1	0.0253831	27.3	01Oct2021, 12:10	2.5
J2	0.1928516	183.8	01Oct2021, 12:13	18.8
J3	1.2354980	515.5	01Oct2021, 12:44	112.7
J4	1.0678500	478.0	01Oct2021, 12:44	97.8
J-OB6	0.8431300	371.3	01Oct2021, 12:43	78.1
OB1	0.0162031	18.8	01Oct2021, 12:08	1.7
OB2	0.0438438	52.7	01Oct2021, 12:08	4.7
OB3	0.0678750	67.1	01Oct2021, 12:12	6.9
OB4	0.0164062	18.9	01Oct2021, 12:10	1.8
OB5	0.2247200	106.9	01Oct2021, 12:40	19.7
OB6	0.1850100	113.2	01Oct2021, 12:29	17.5
OB7	0.6581200	284.2	01Oct2021, 12:52	60.6
OB8	0.0516699	51.6	01Oct2021, 12:13	5.4
R-B1	0.0162031	18.7	01Oct2021, 12:10	1.7
R-OB4	0.1281250	135.8	01Oct2021, 12:13	13.4
R-OB5	0.2247200	106.8	01Oct2021, 12:43	19.7
R-OB6	0.8431300	371.3	01Oct2021, 12:44	78.1
R-OB7	1.0678500	477.9	01Oct2021, 12:46	97.7
R-OB8	0.0516699	51.5	01Oct2021, 12:16	5.4

Subbasin "B1" Results for Run "EV 100-yr Ex. Type II"



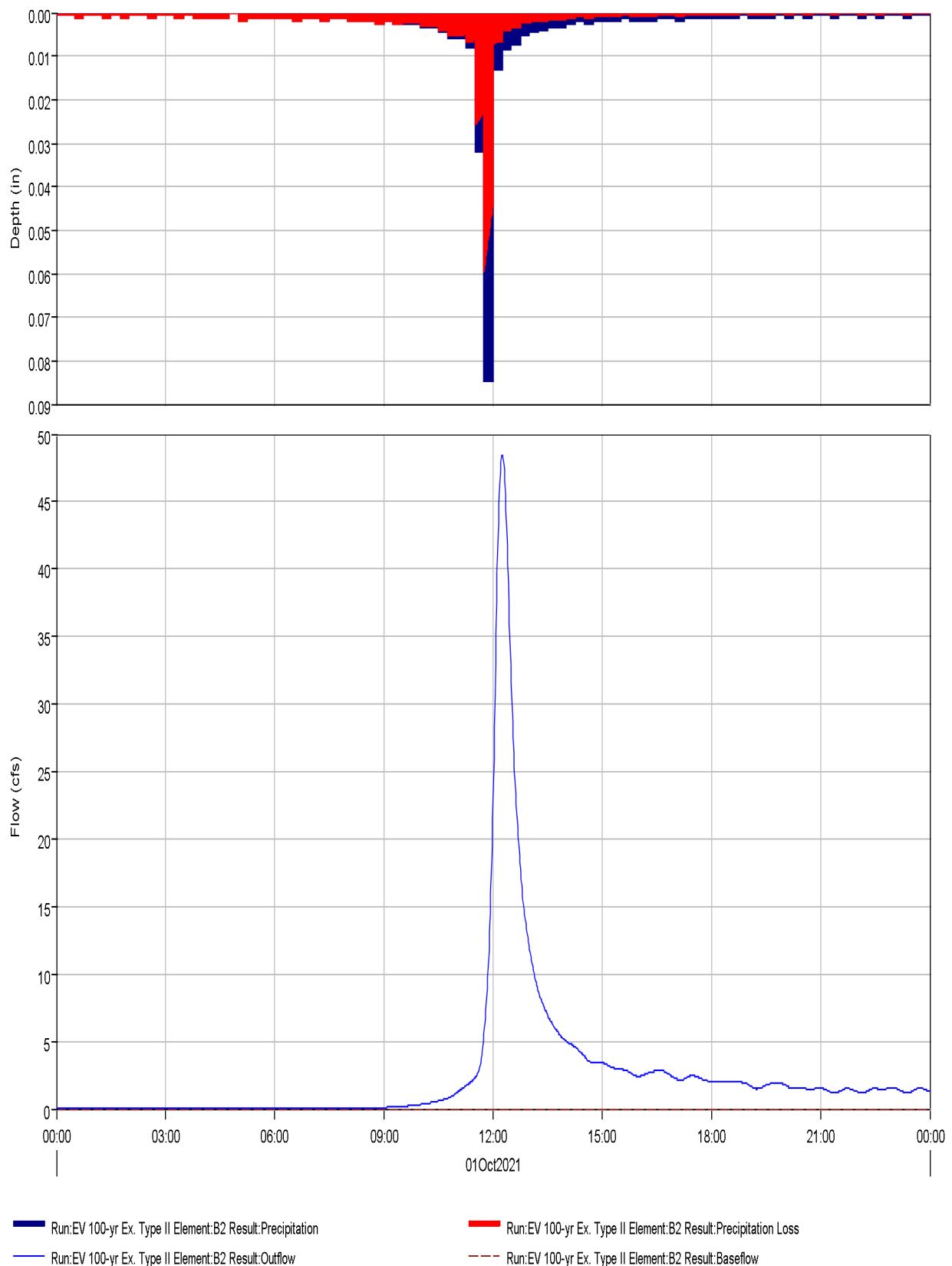
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: B1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	8.5 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:11
Total Precipitation :	2.3 (AC-FT)	Total Direct Runoff :	0.8 (AC-FT)
Total Loss :	1.4 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.8 (AC-FT)	Discharge :	0.8 (AC-FT)

Subbasin "B2" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: B2

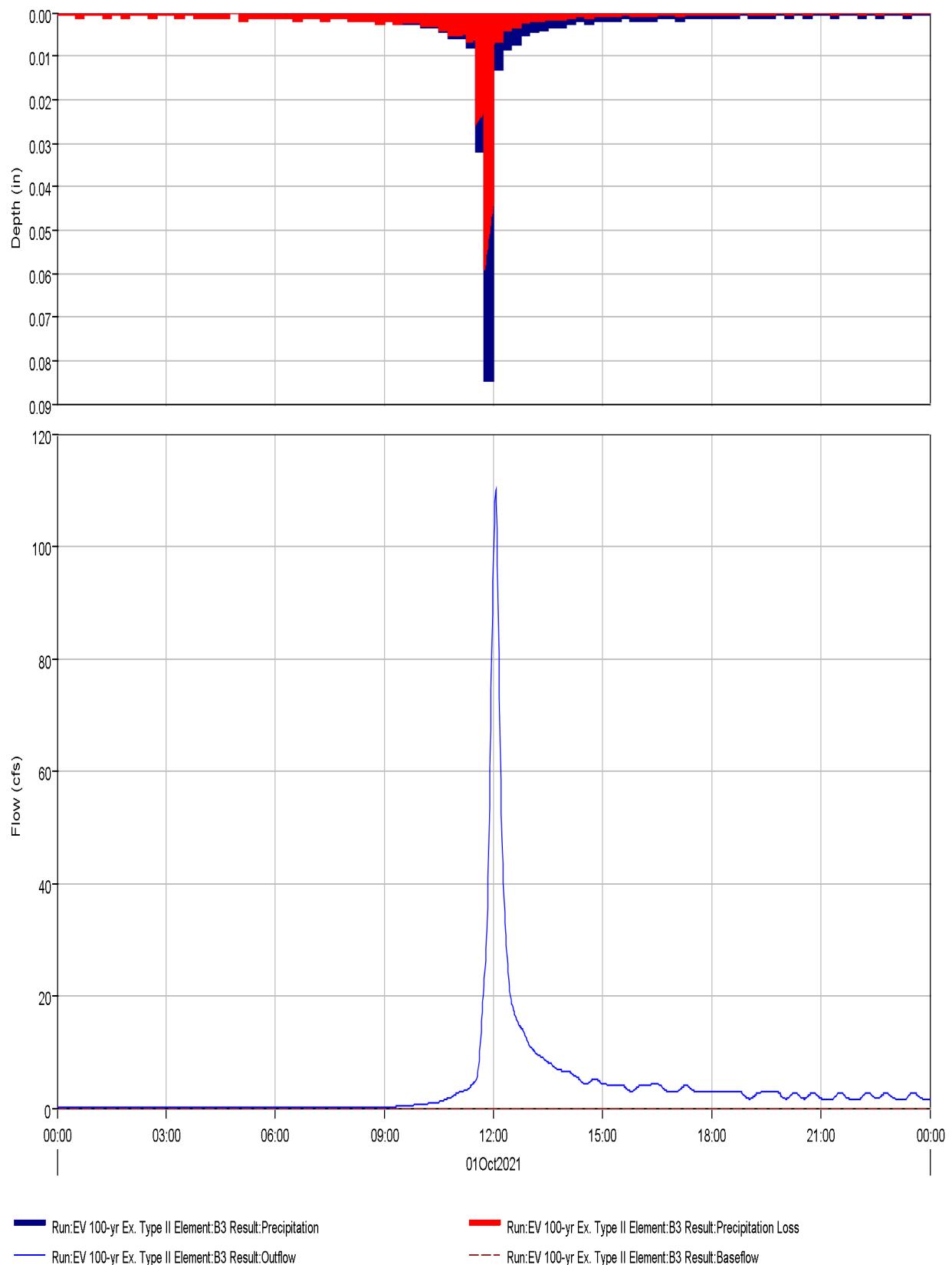
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	48.5 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:15
Total Precipitation :	15.9 (AC-FT)	Total Direct Runoff :	5.3 (AC-FT)
Total Loss :	10.5 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	5.4 (AC-FT)	Discharge :	5.3 (AC-FT)

Subbasin "B3" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: B3

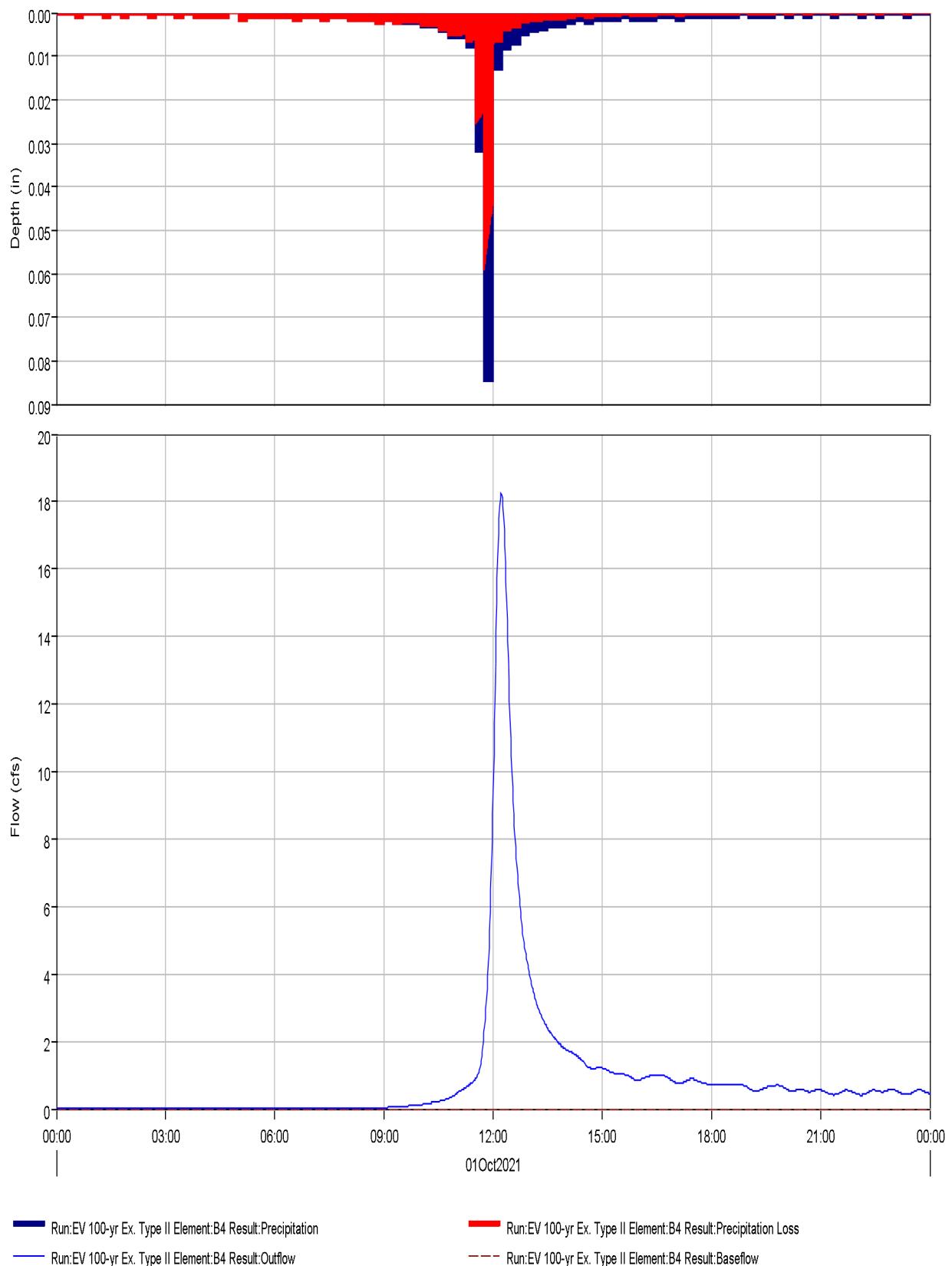
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	110.0 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:04
Total Precipitation :	22.8 (AC-FT)	Total Direct Runoff :	7.8 (AC-FT)
Total Loss :	15.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	7.8 (AC-FT)	Discharge :	7.8 (AC-FT)

Subbasin "B4" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: B4

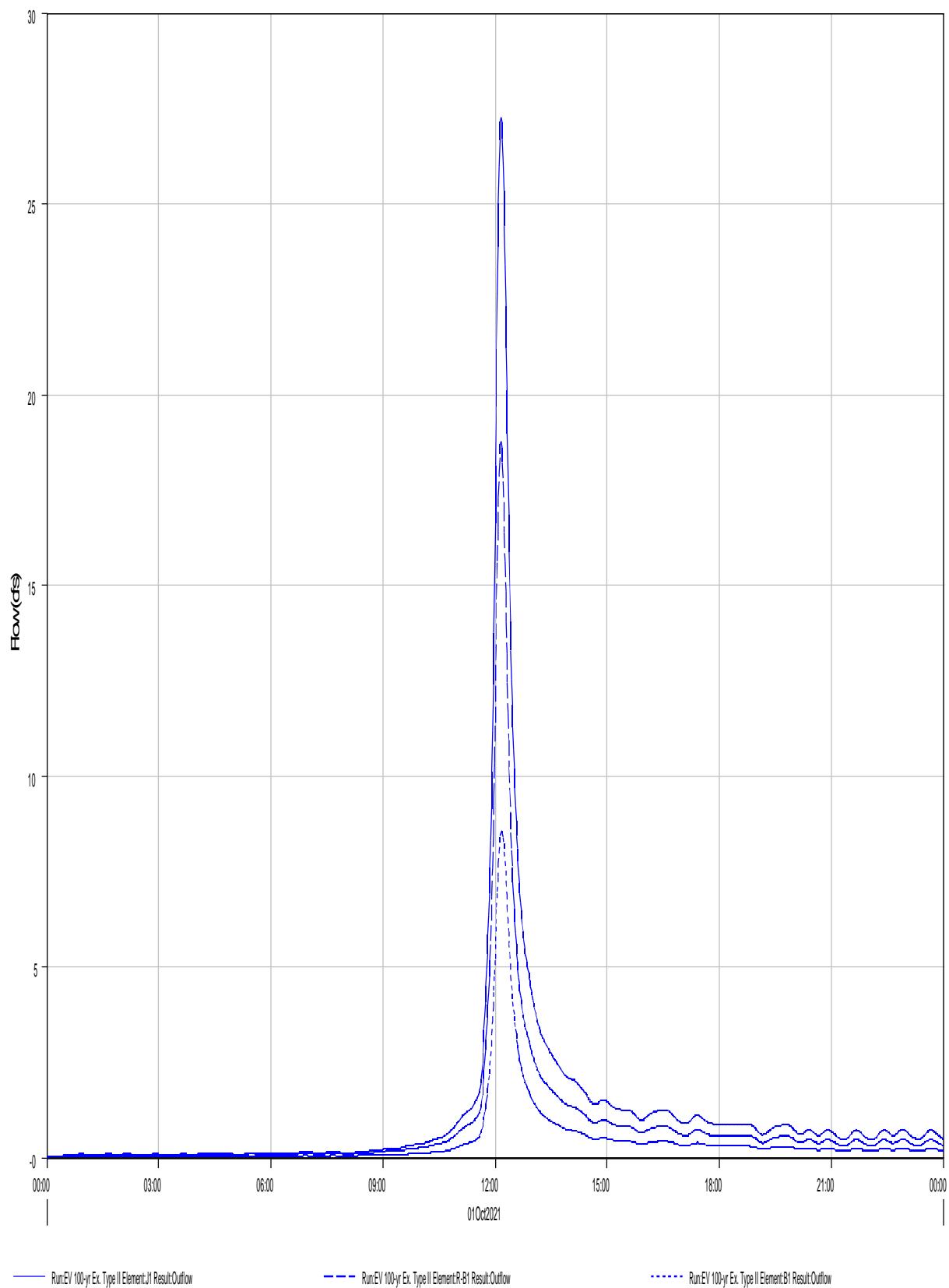
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	18.2 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:13
Total Precipitation :	5.6 (AC-FT)	Total Direct Runoff :	1.9 (AC-FT)
Total Loss :	3.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.9 (AC-FT)	Discharge :	1.9 (AC-FT)

Junction "J1" Results for Run "EV 100-yr Ex. Type II"



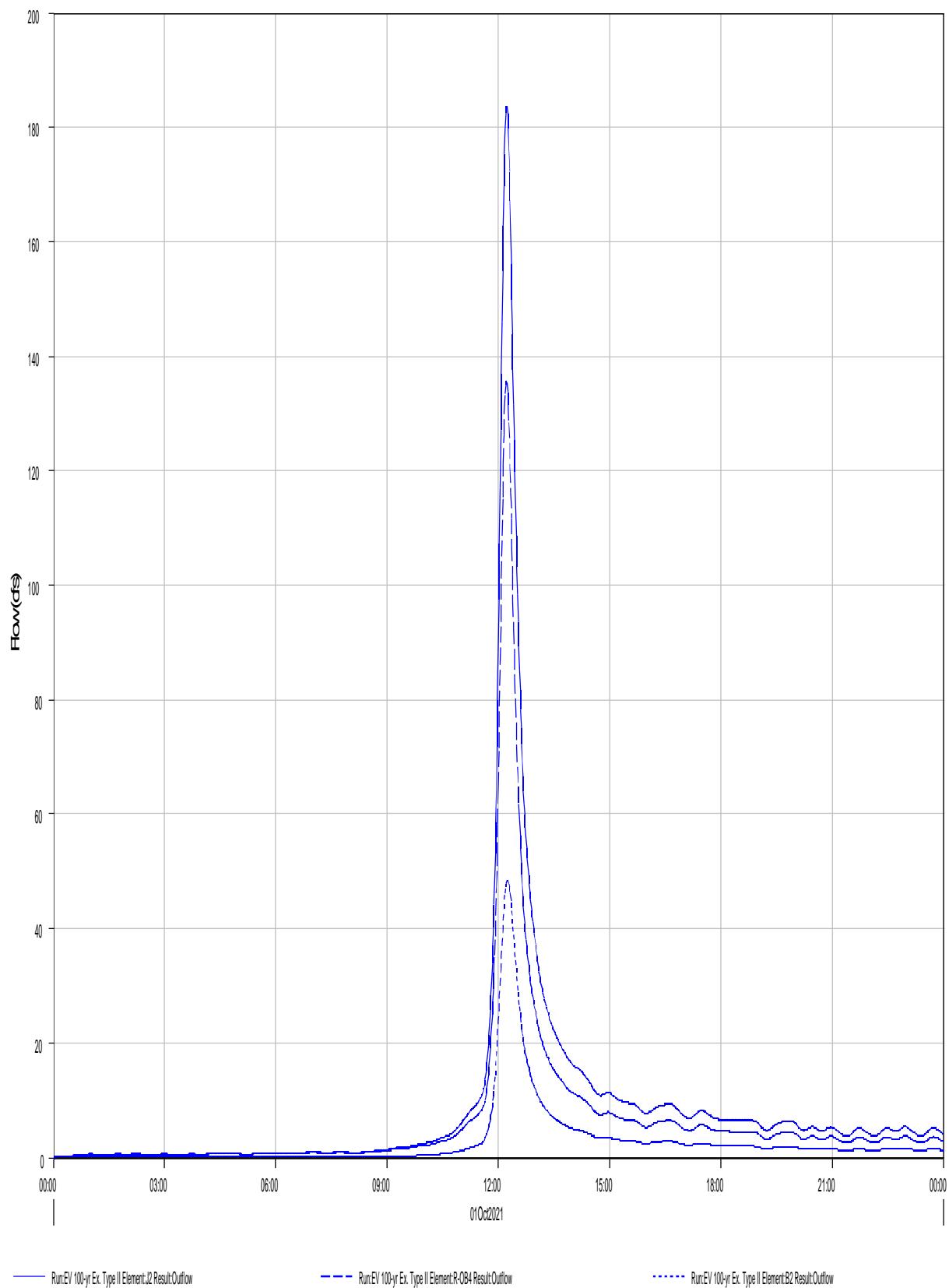
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Junction: J1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 27.3 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:10
Total Outflow : 2.5 (AC-FT)

Junction "J2" Results for Run "EV 100-yr Ex. Type II"



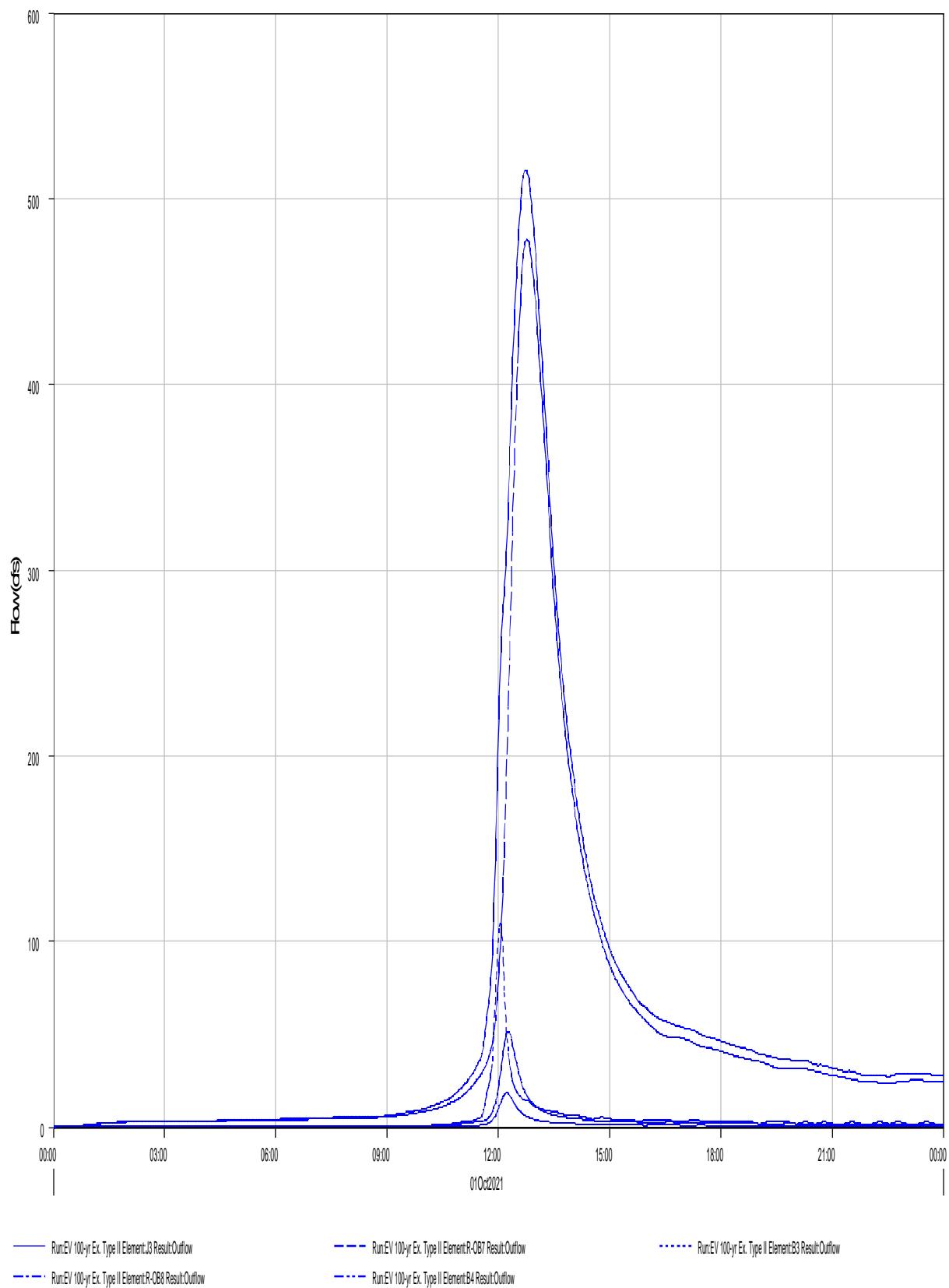
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Junction: J2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 183.8 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:13
Total Outflow : 18.8 (AC-FT)

Junction "J3" Results for Run "EV 100-yr Ex. Type II"



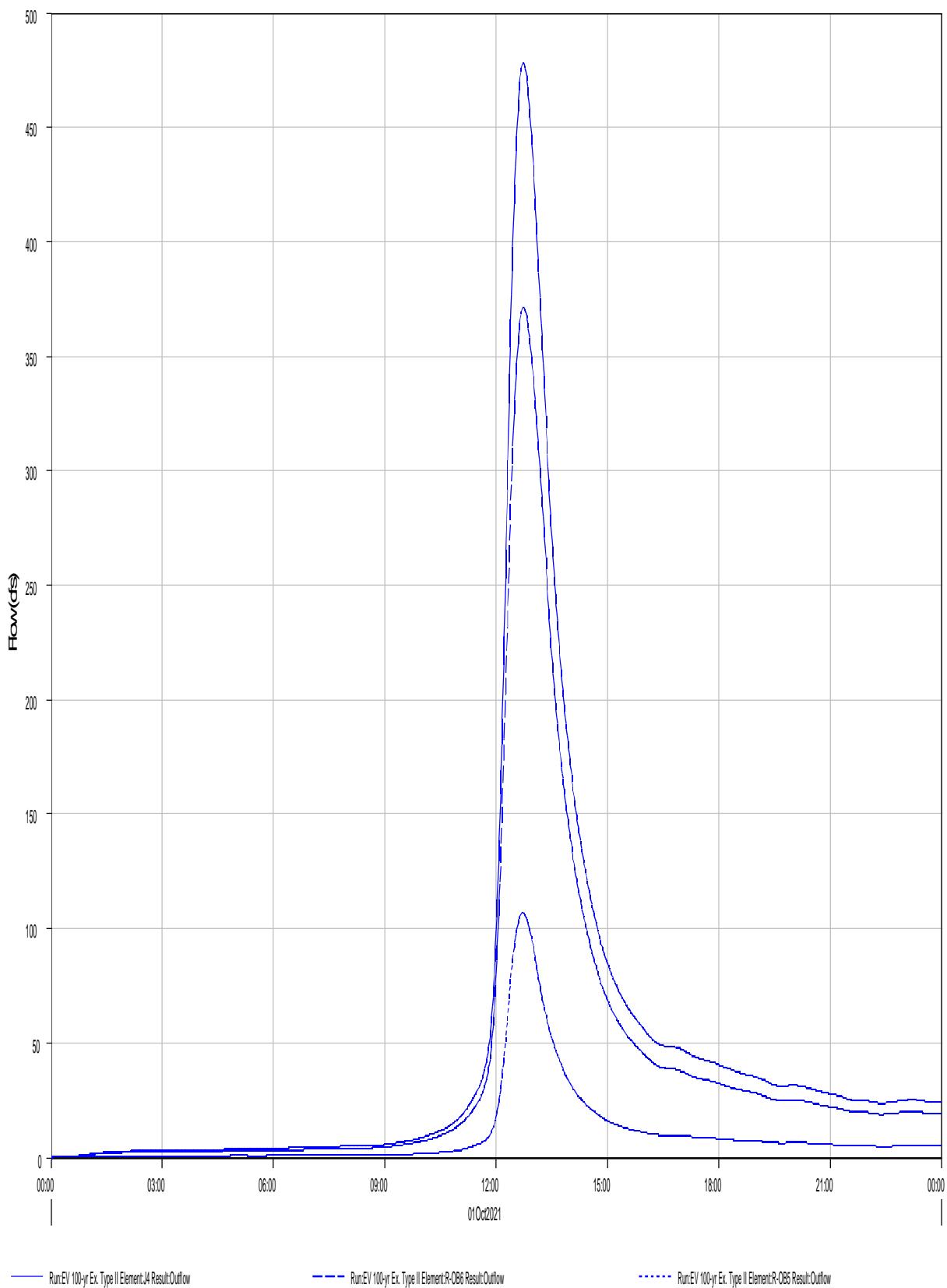
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Junction: J3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 515.5 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:44
Total Outflow : 112.7 (AC-FT)

Junction "J4" Results for Run "EV 100-yr Ex. Type II"

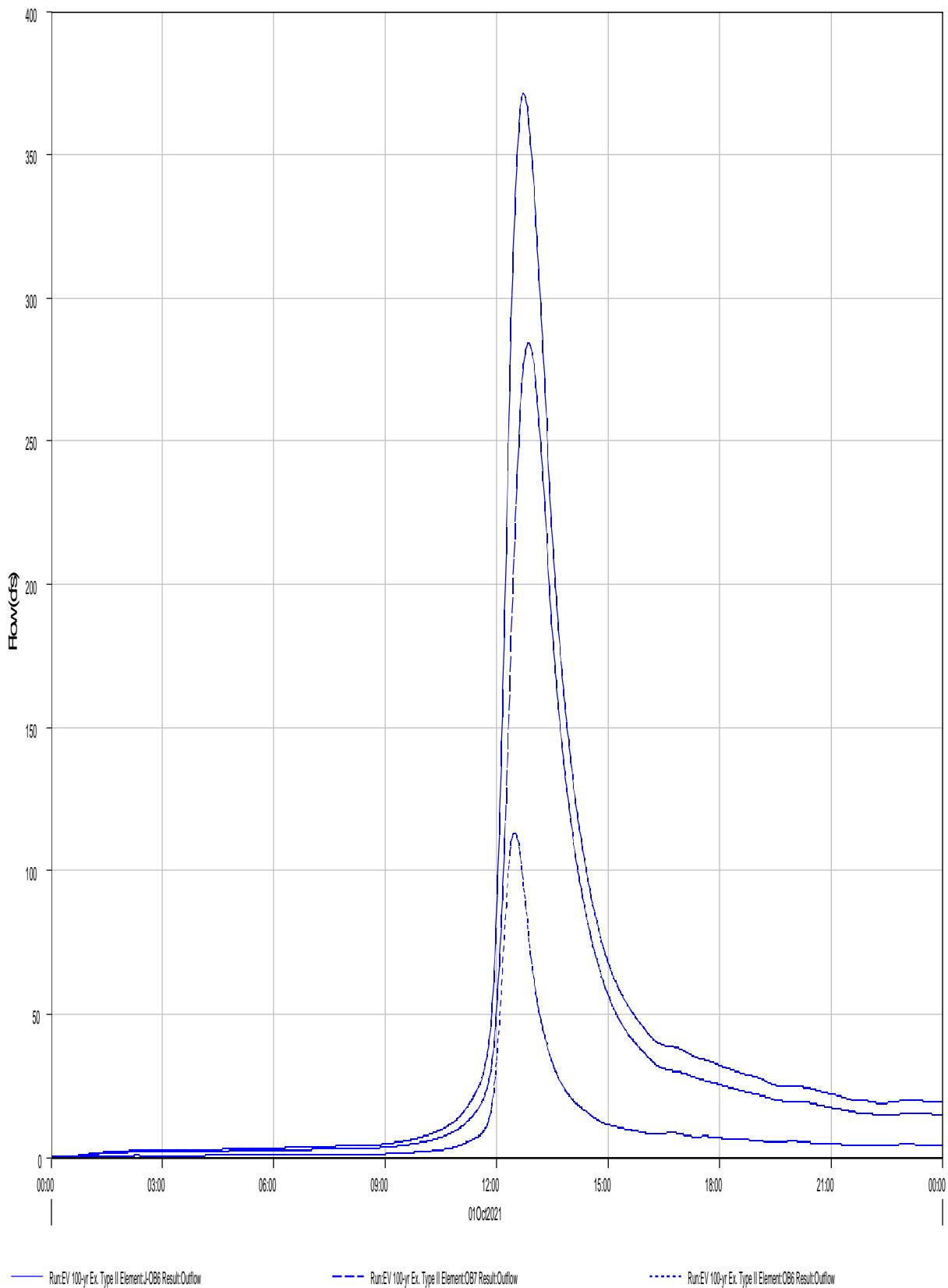


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Junction: J4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Outflow : 478.0 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:44
Total Outflow : 1.72 (IN)

Junction "J-OB6" Results for Run "EV 100-yr Ex. Type II"

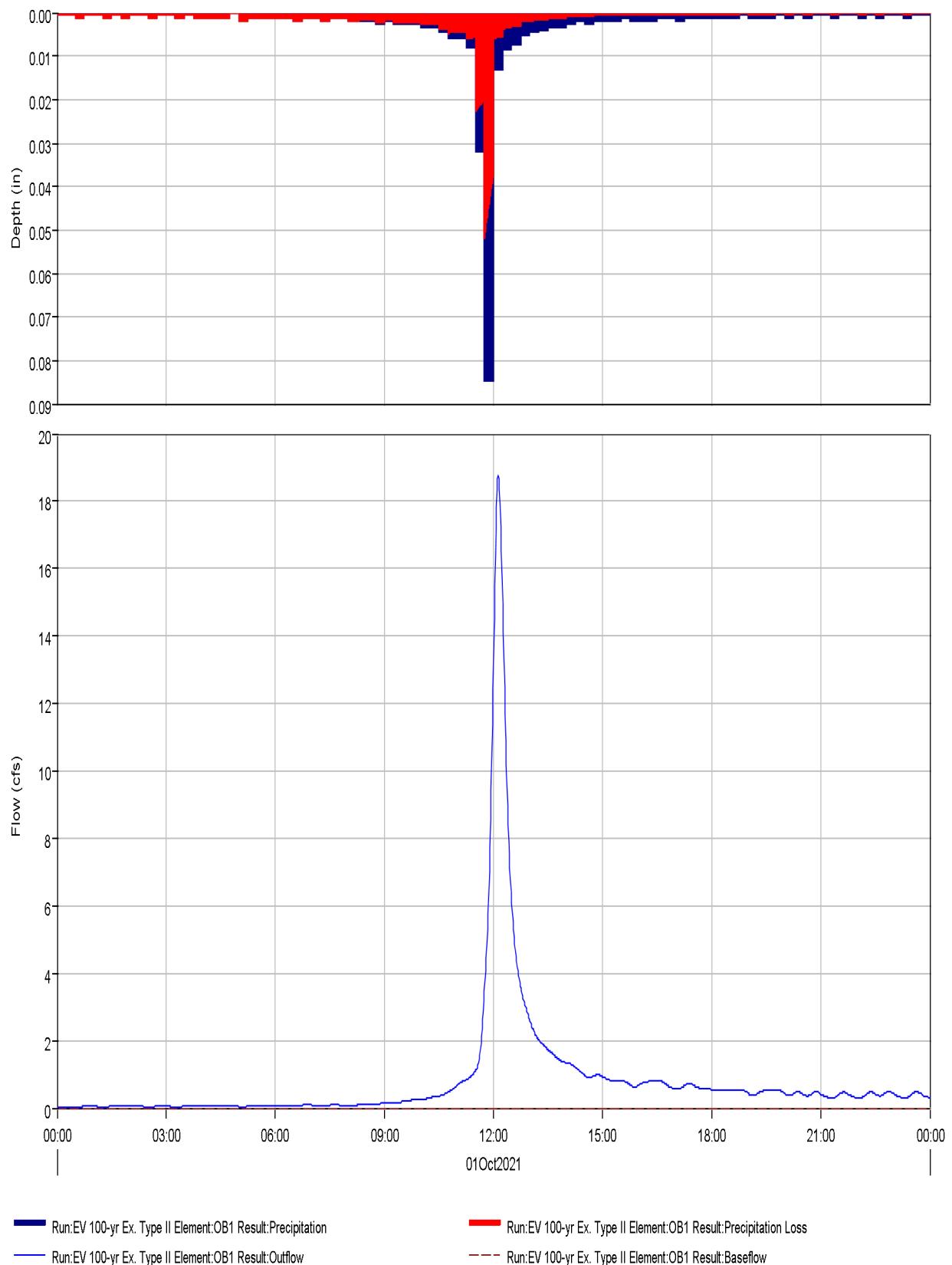


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Junction: J-OB6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Outflow : 371.3 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:43
Total Outflow : 78.1 (AC-FT)

Subbasin "OB1" Results for Run "EV 100-yr Ex. Type II"

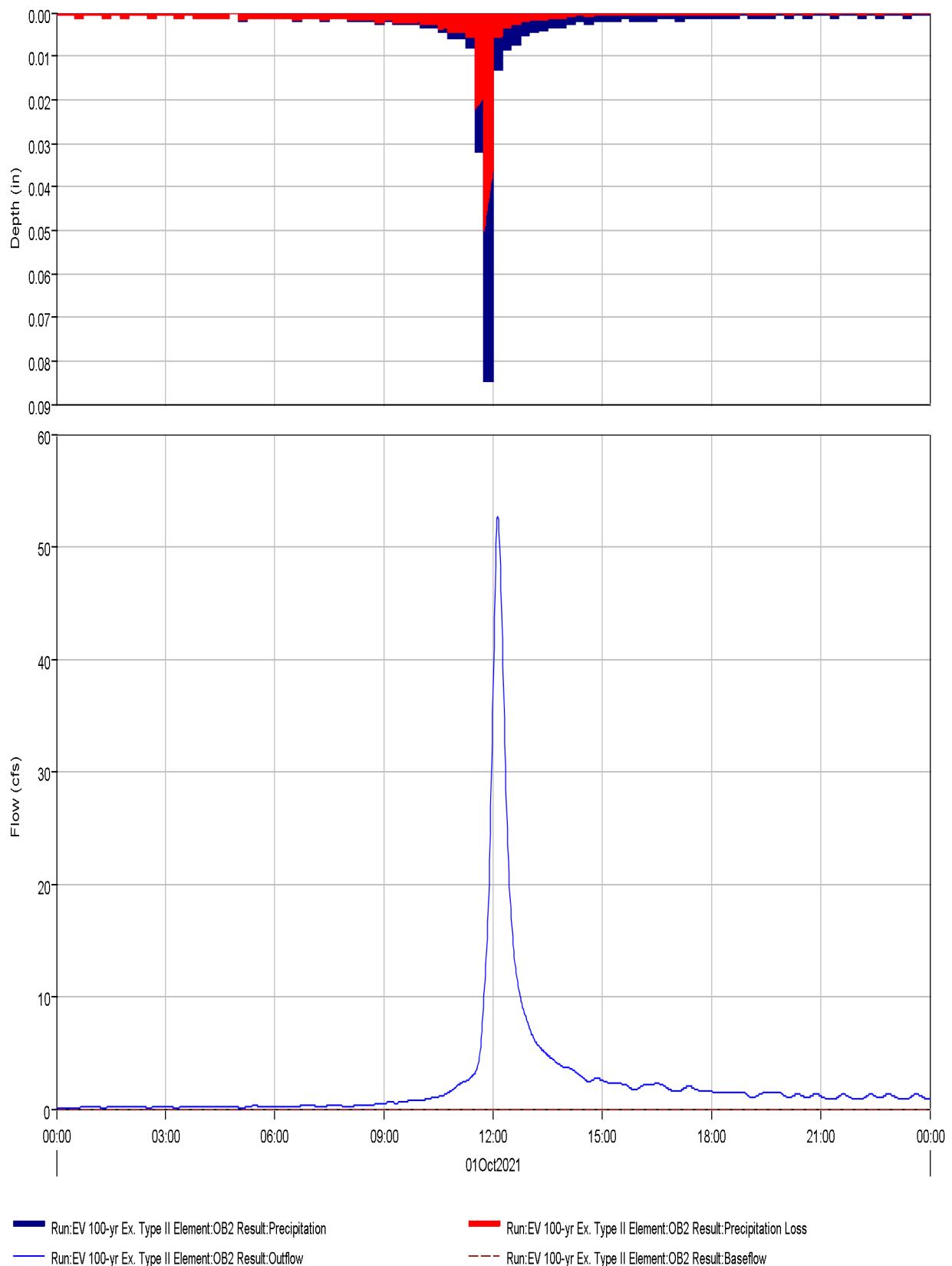


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Discharge :	18.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	4.0 (AC-FT)	Total Direct Runoff :	1.7 (AC-FT)
Total Loss :	2.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.7 (AC-FT)	Discharge :	1.7 (AC-FT)

Subbasin "OB2" Results for Run "EV 100-yr Ex. Type II"

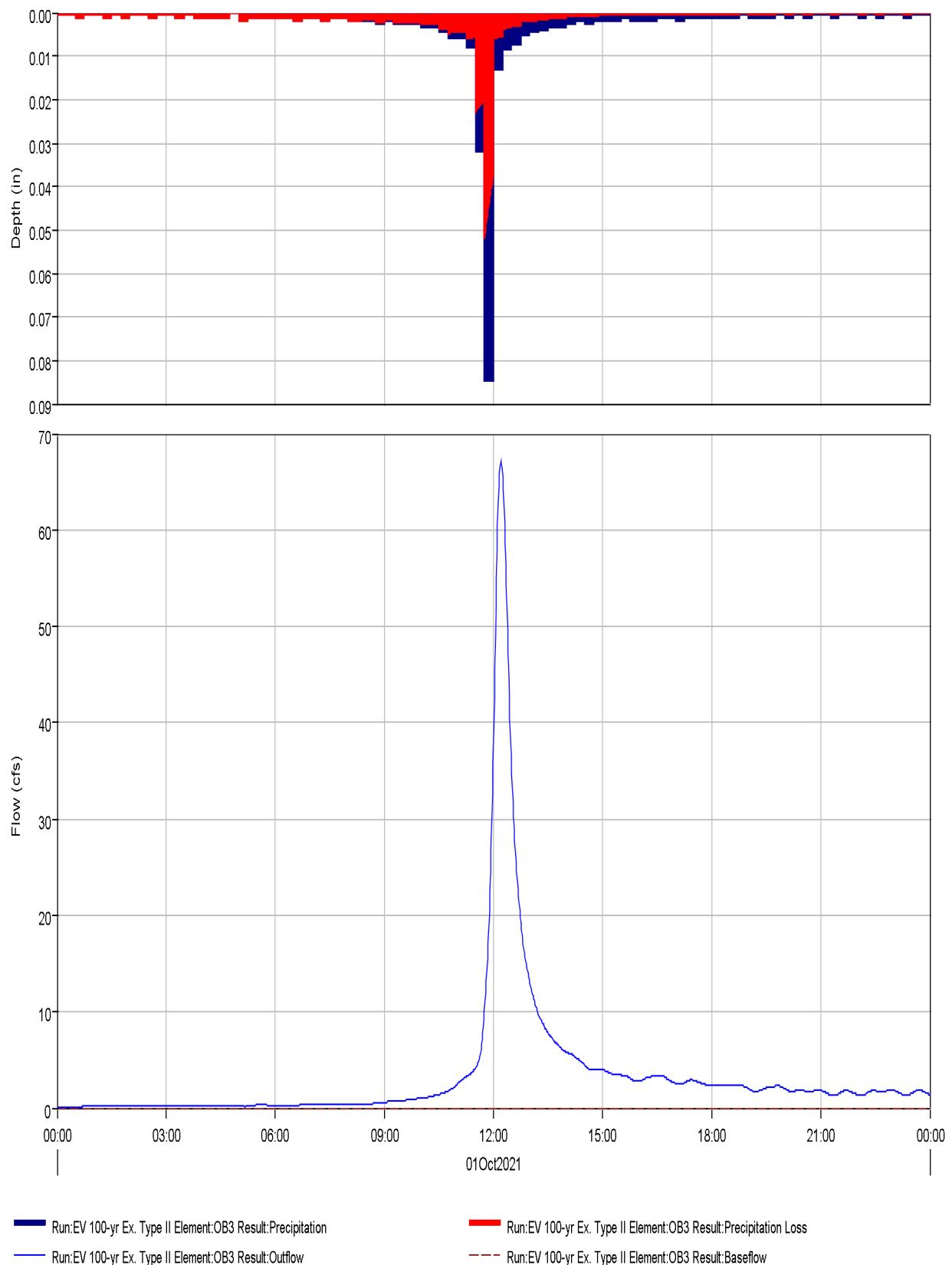


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Discharge :	52.7 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	10.8 (AC-FT)	Total Direct Runoff :	4.7 (AC-FT)
Total Loss :	6.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	4.7 (AC-FT)	Discharge :	4.7 (AC-FT)

Subbasin "OB3" Results for Run "EV 100-yr Ex. Type II"

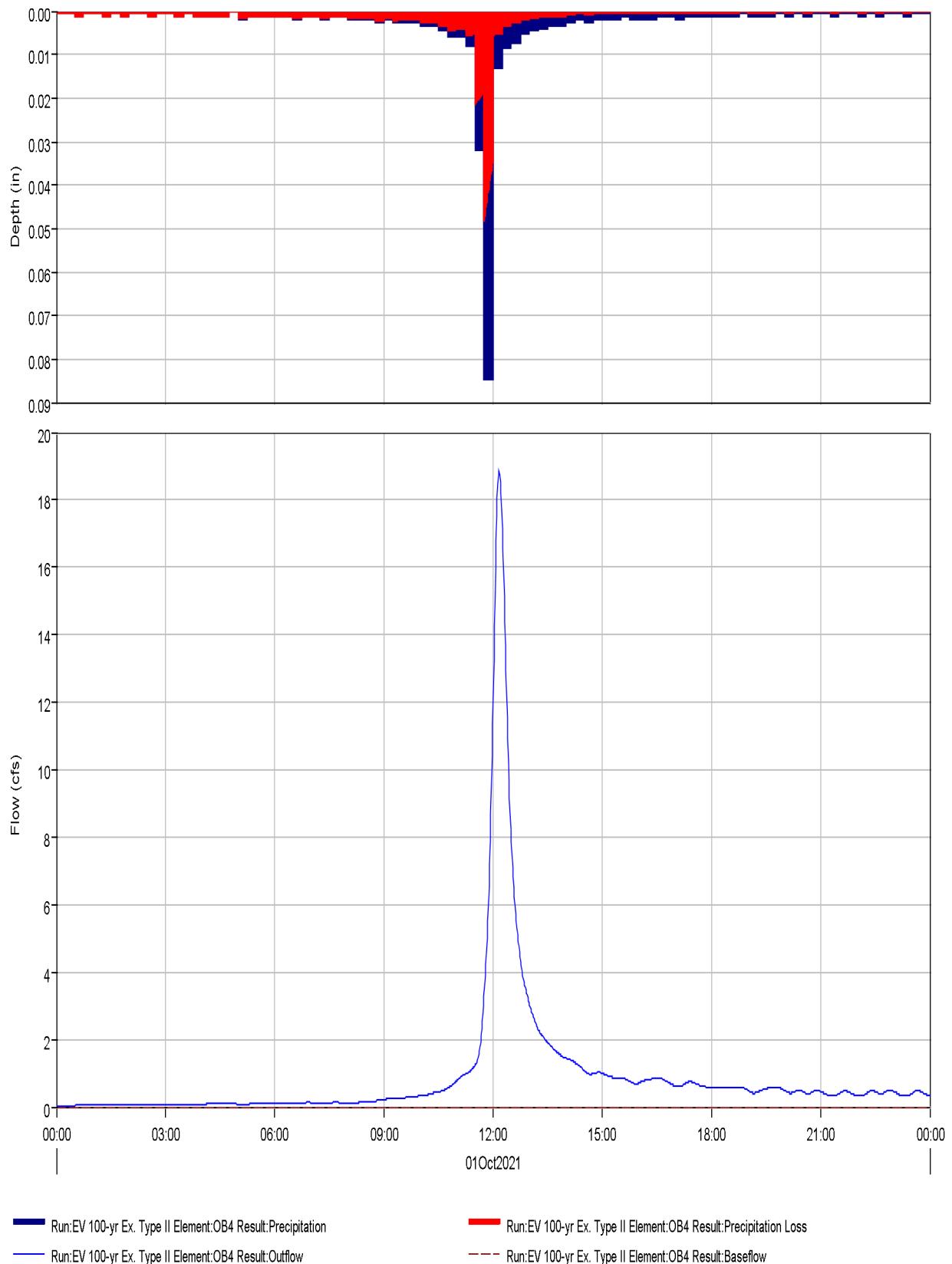


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Discharge :	67.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:12
Total Precipitation :	16.7 (AC-FT)	Total Direct Runoff :	6.9 (AC-FT)
Total Loss :	9.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	7.0 (AC-FT)	Discharge :	6.9 (AC-FT)

Subbasin "OB4" Results for Run "EV 100-yr Ex. Type II"

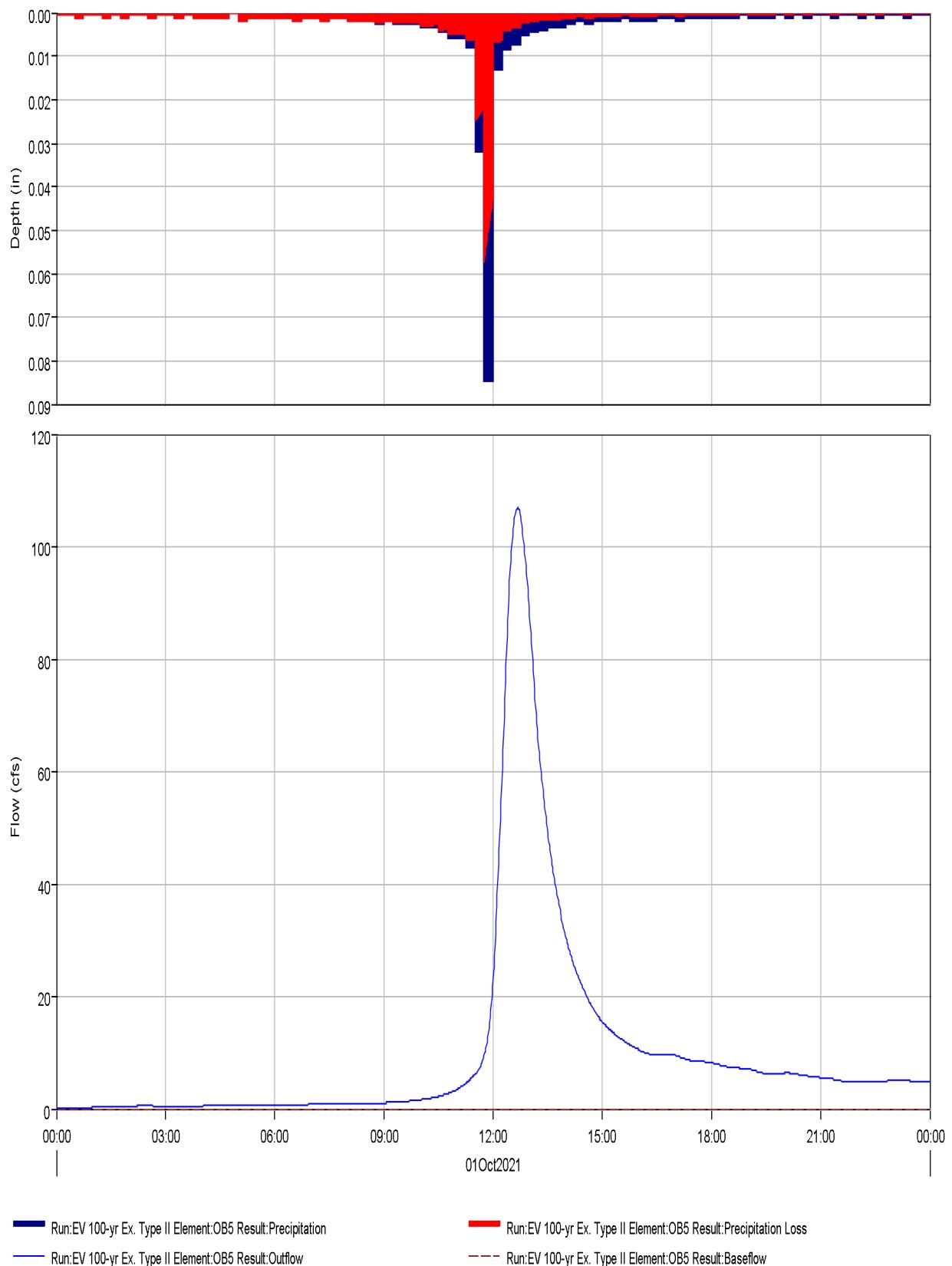


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Discharge :	18.9 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	4.0 (AC-FT)	Total Direct Runoff :	1.8 (AC-FT)
Total Loss :	2.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.8 (AC-FT)	Discharge :	1.8 (AC-FT)

Subbasin "OB5" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB5

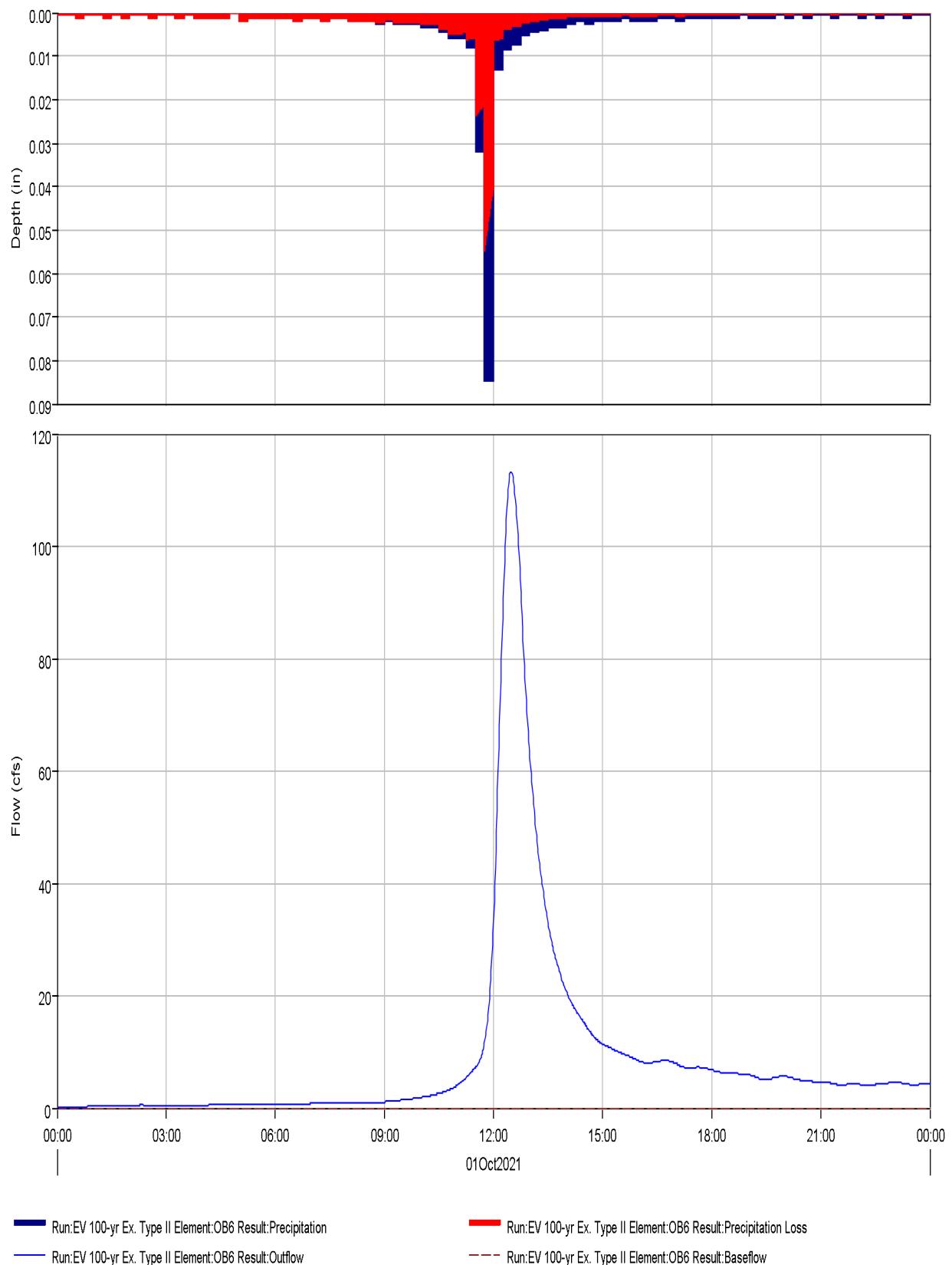
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	106.9 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:40
Total Precipitation :	55.1 (AC-FT)	Total Direct Runoff :	19.7 (AC-FT)
Total Loss :	35.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	20.1 (AC-FT)	Discharge :	19.7 (AC-FT)

Subbasin "OB6" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB6

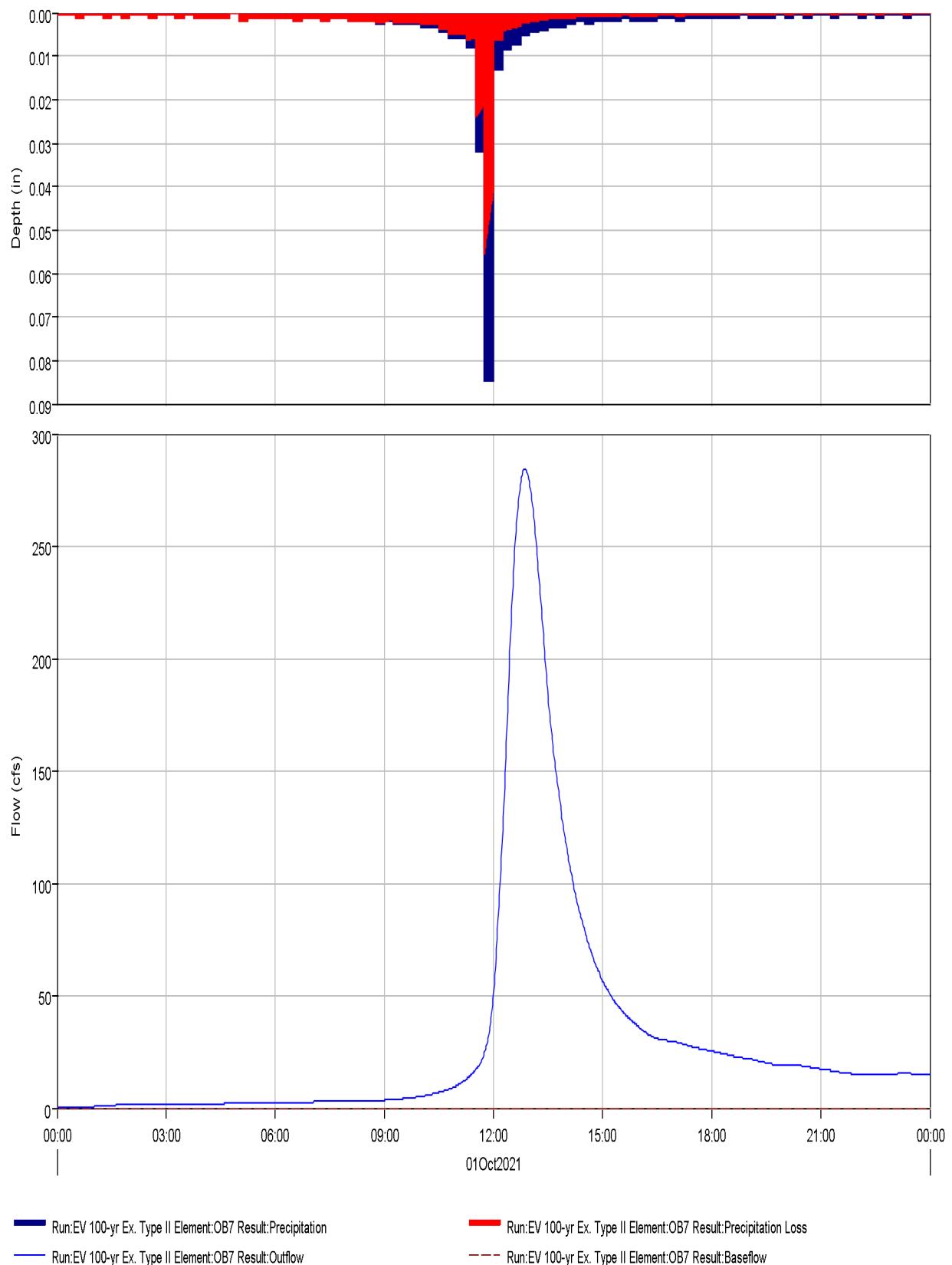
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	113.2 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:29
Total Precipitation :	45.4 (AC-FT)	Total Direct Runoff :	17.5 (AC-FT)
Total Loss :	27.6 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	17.8 (AC-FT)	Discharge :	17.5 (AC-FT)

Subbasin "OB7" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB7

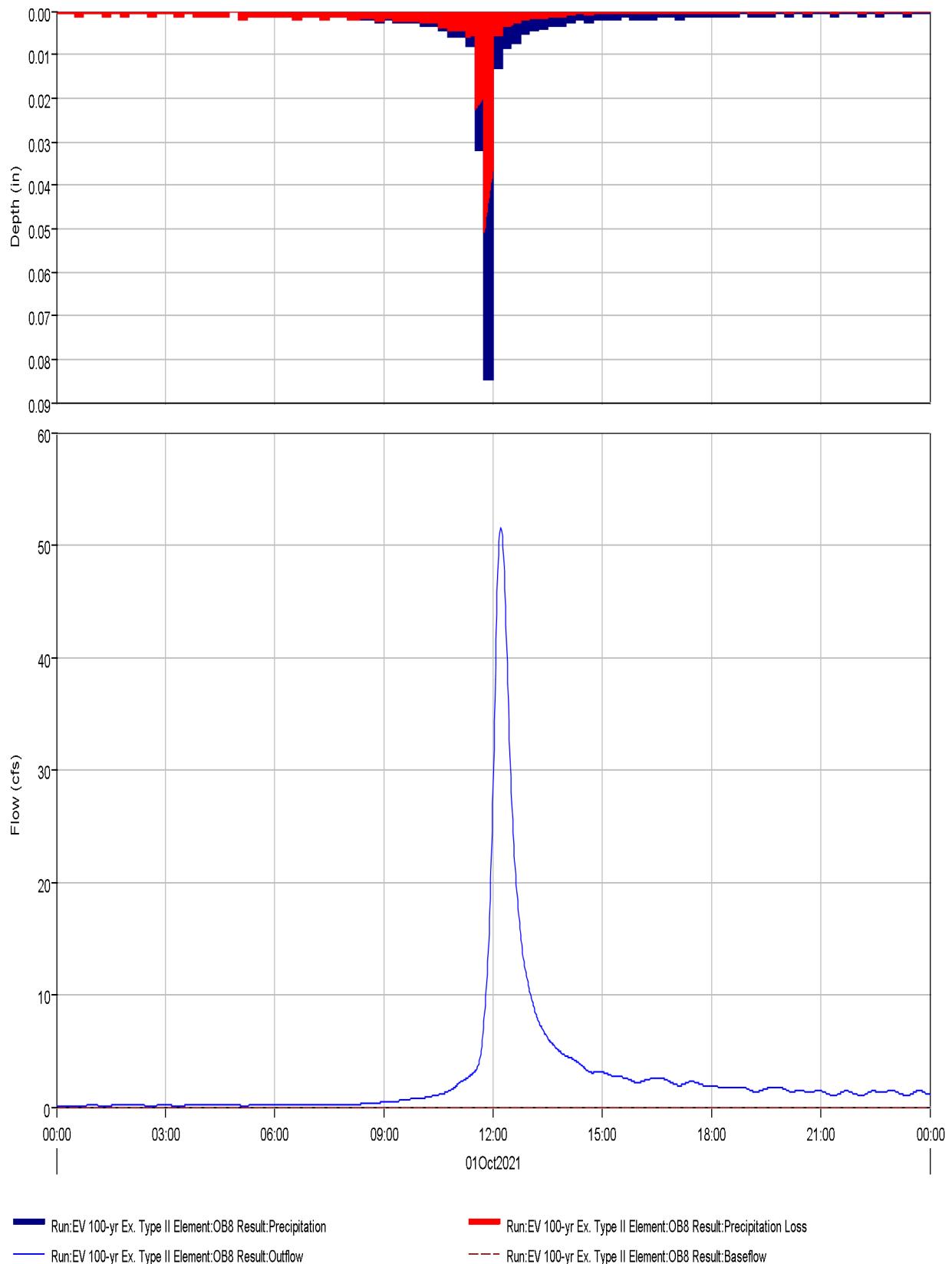
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	284.2 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:52
Total Precipitation :	161.5 (AC-FT)	Total Direct Runoff :	60.6 (AC-FT)
Total Loss :	99.5 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	62.0 (AC-FT)	Discharge :	60.6 (AC-FT)

Subbasin "OB8" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Subbasin: OB8

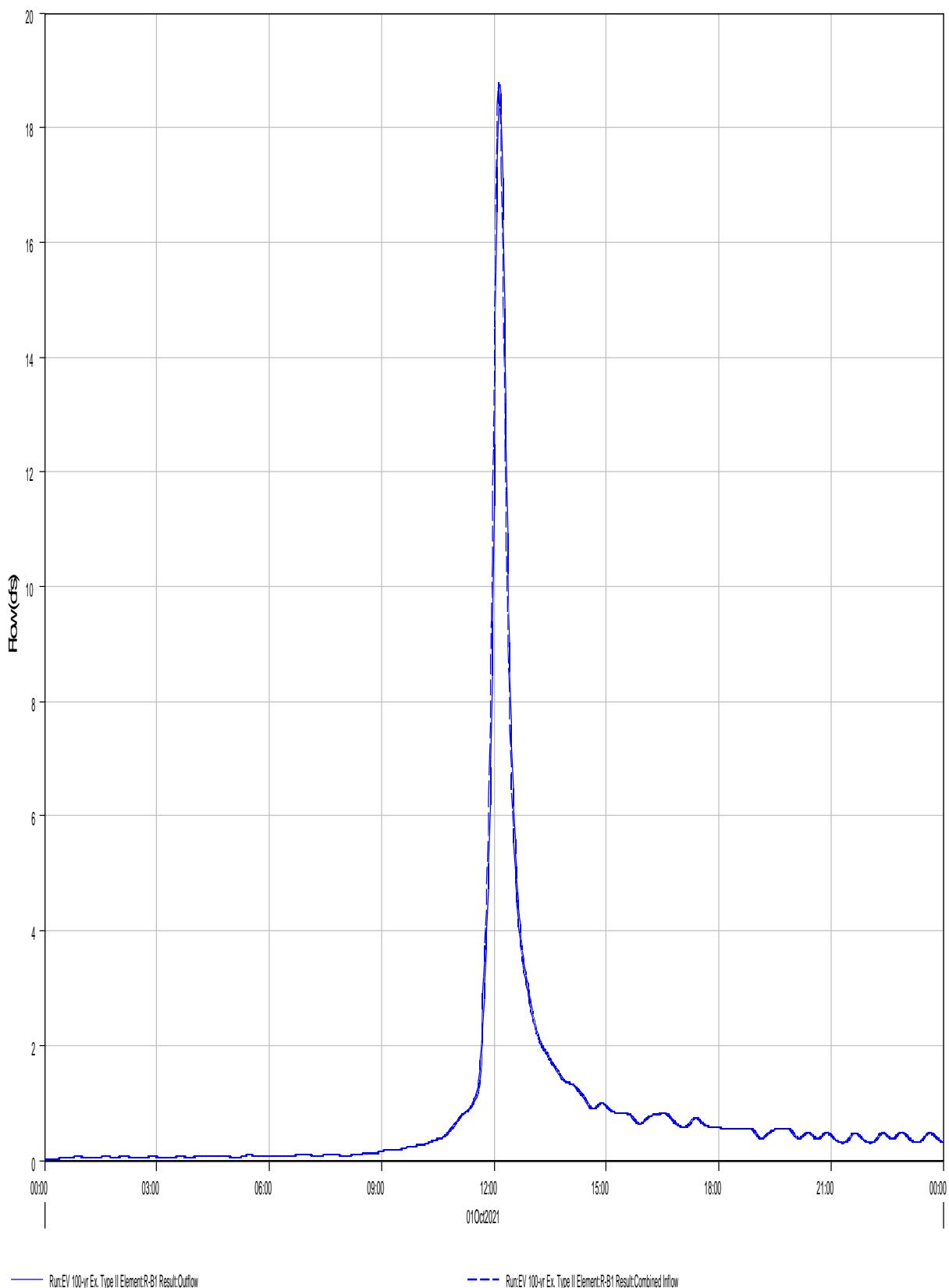
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	51.6 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:13
Total Precipitation :	12.7 (AC-FT)	Total Direct Runoff :	5.4 (AC-FT)
Total Loss :	7.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	5.4 (AC-FT)	Discharge :	5.4 (AC-FT)

Reach "R-B1" Results for Run "EV 100-yr Ex. Type II"



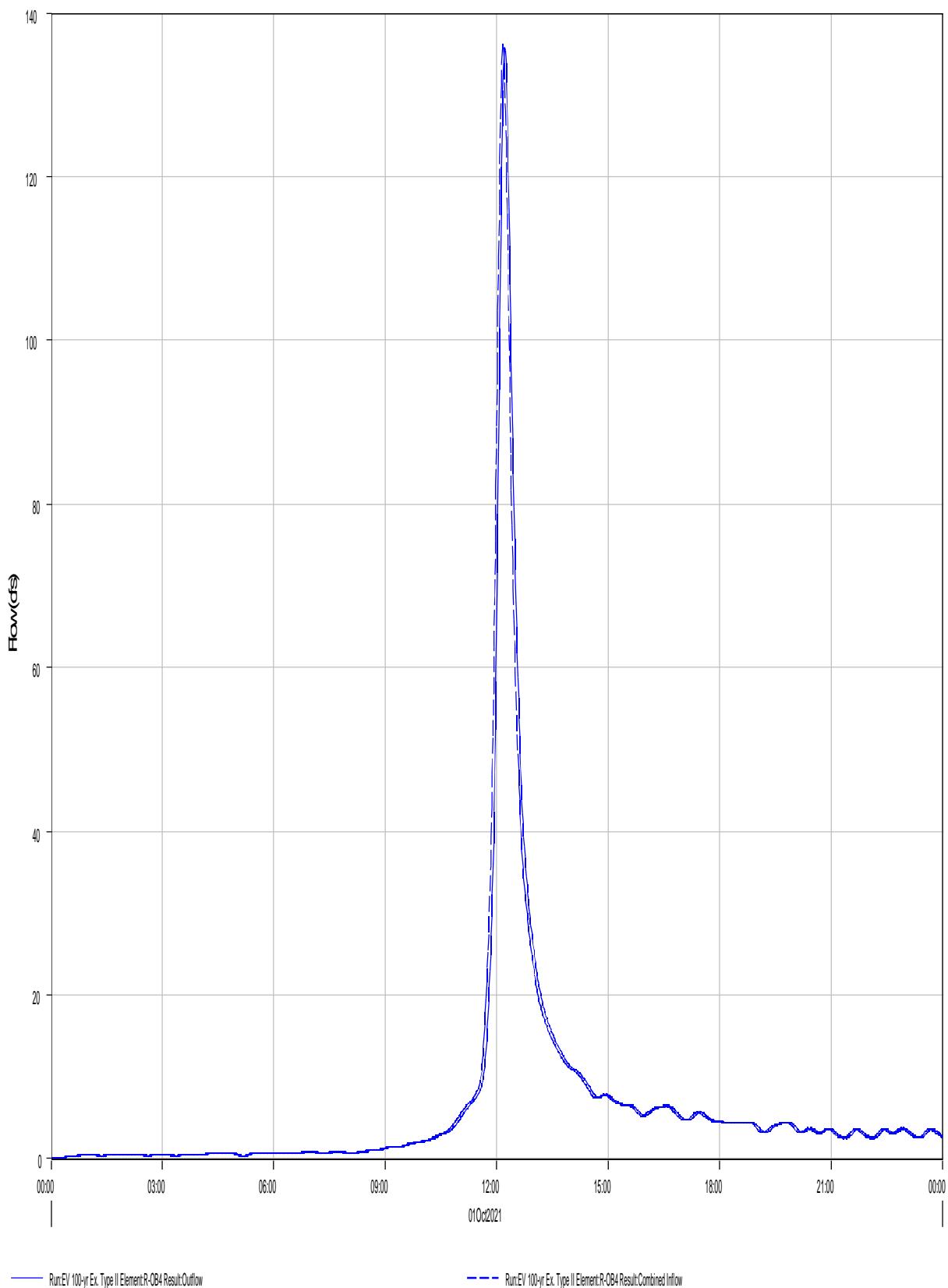
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Reach: R-B1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	18.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	18.7 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:10
Total Inflow :	1.7 (AC-FT)	Total Outflow :	1.7 (AC-FT)

Reach "R-QB4" Results for Run "EV 100-yr Ex. Type II"



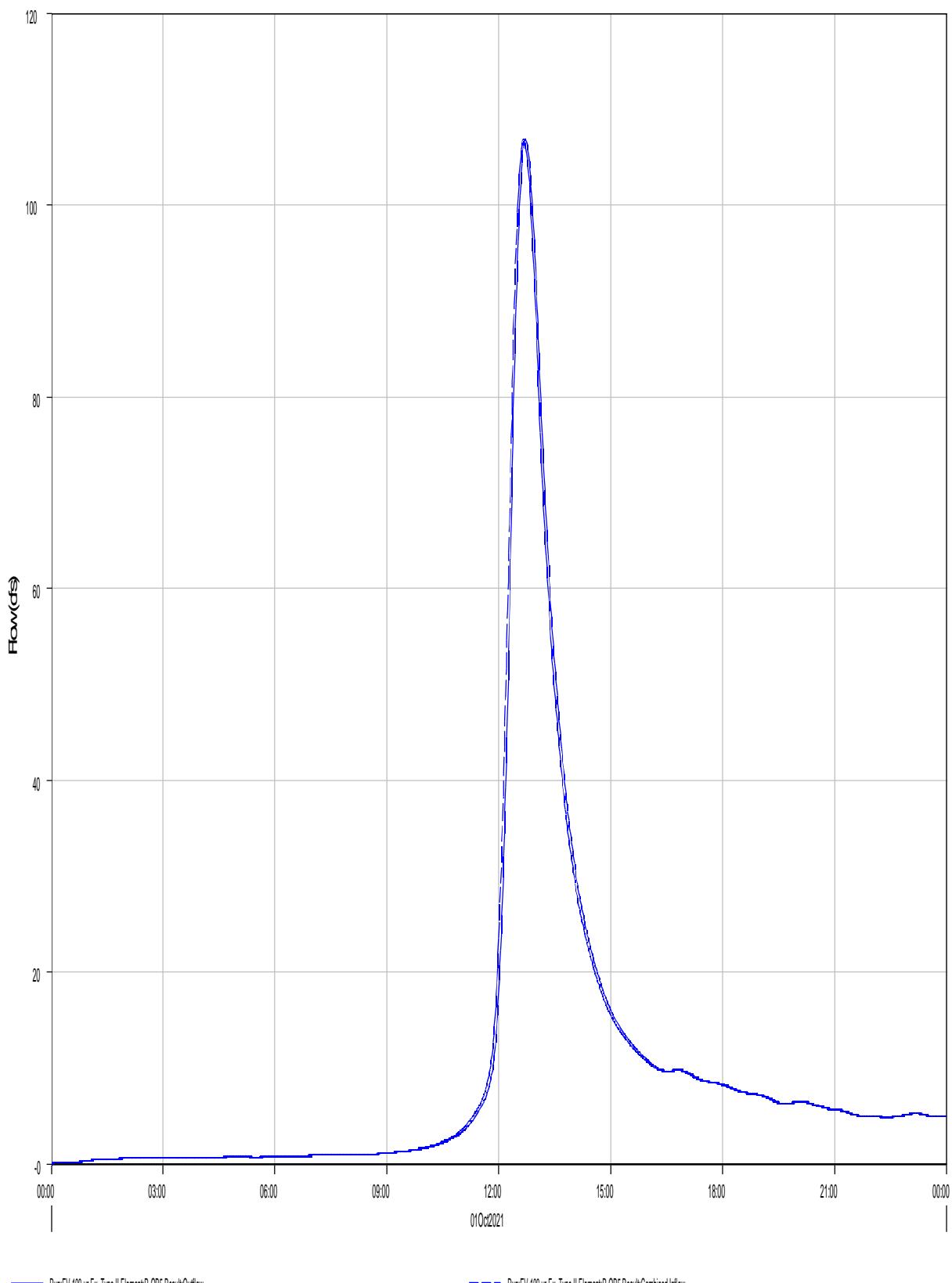
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Reach: R-OB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	136.1 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:10
Peak Outflow :	135.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	13.5 (AC-FT)	Total Outflow :	13.4 (AC-FT)

Reach "R-OBS" Results for Run "EV 100-yr Ex. Type II"



— Run EV 100-yr Ex. Type II Element R-OBS Result Outflow

- - Run EV 100-yr Ex. Type II Element R-OBS Result Combined Inflow

Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Reach: R-OB5

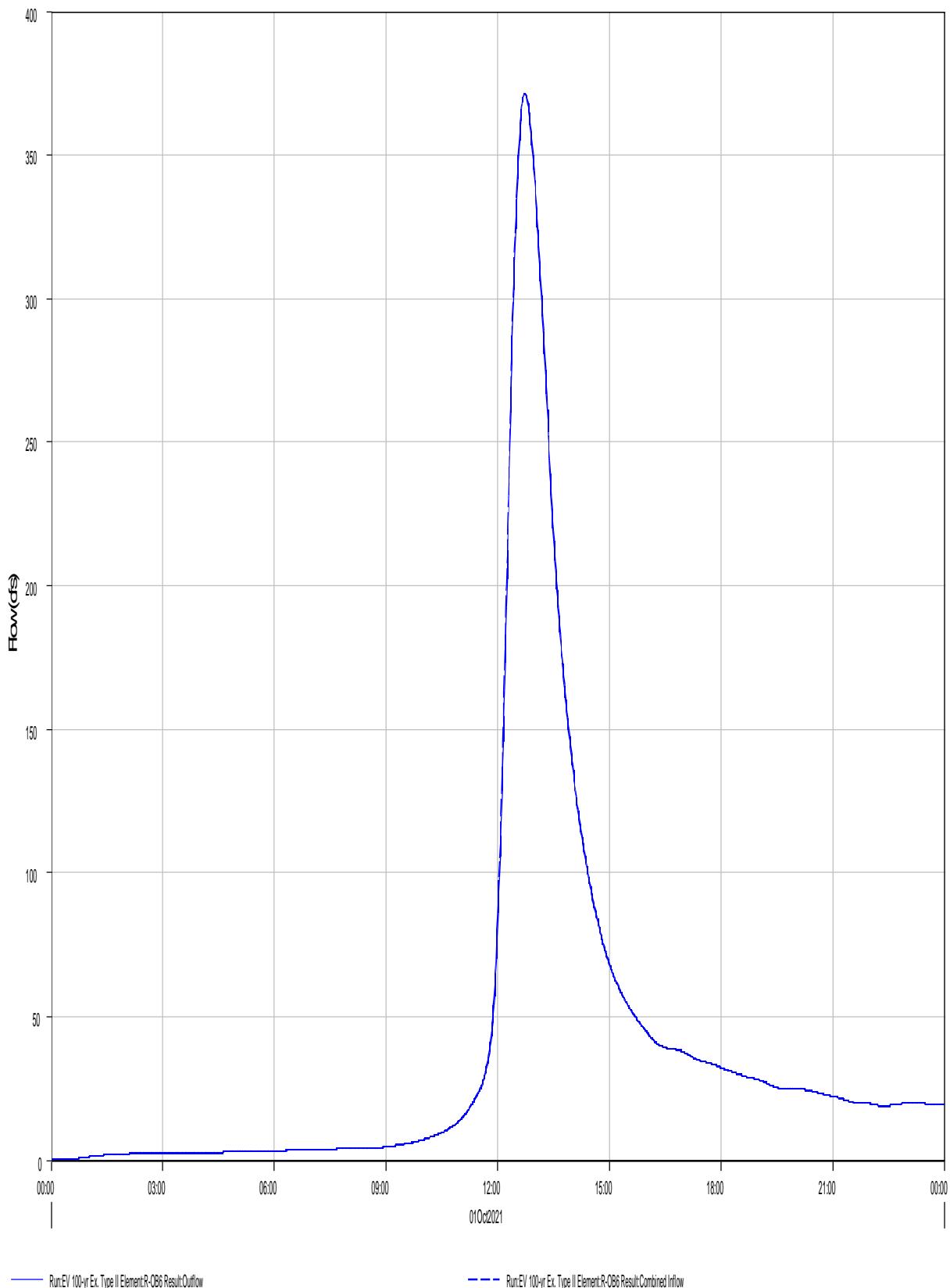
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	106.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:40
Peak Outflow :	106.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:43
Total Inflow :	19.7 (AC-FT)	Total Outflow :	19.7 (AC-FT)

Reach "R-OB6" Results for Run "EV 100-yr Ex. Type II"

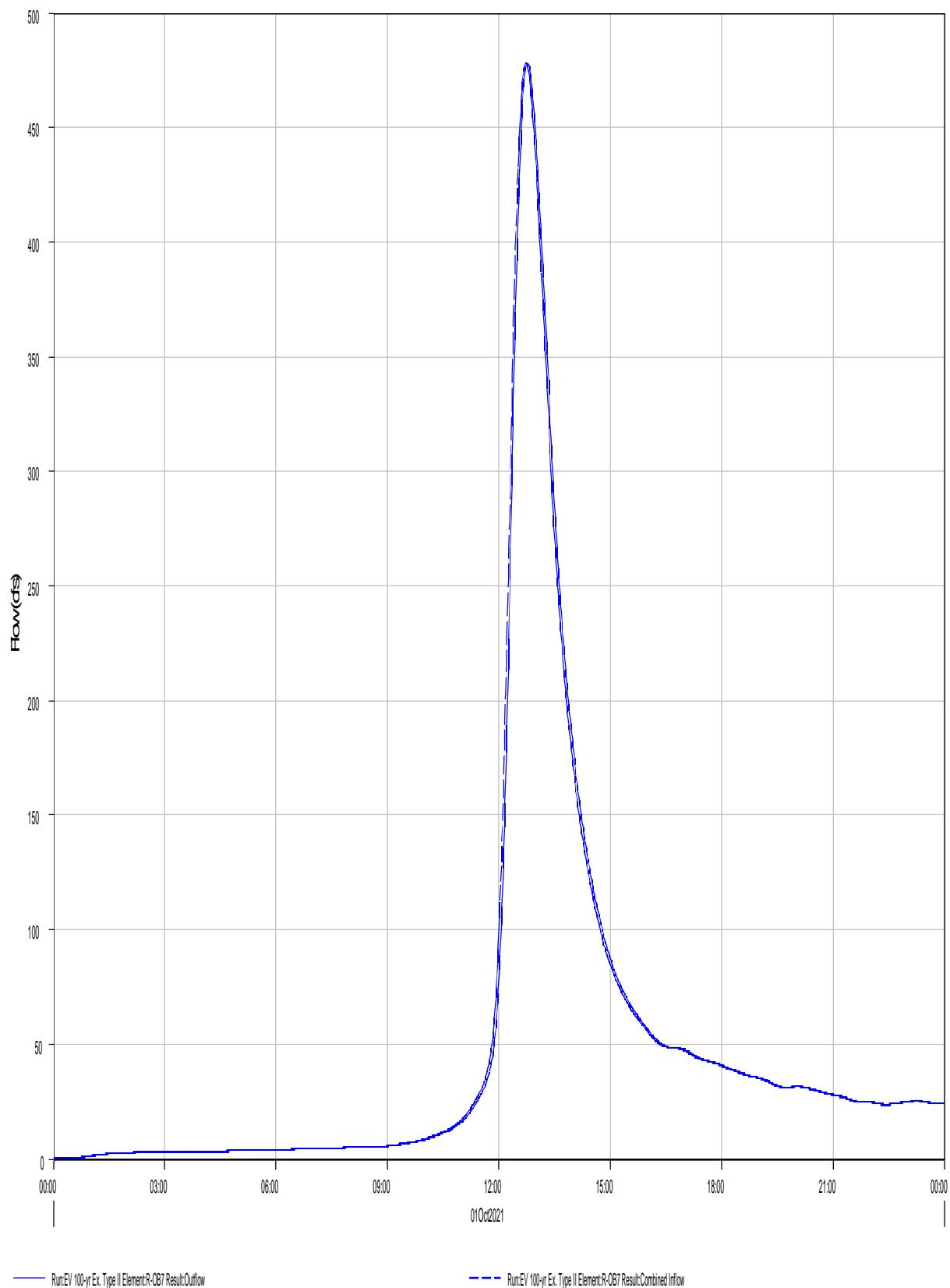


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Reach: R-OB6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Inflow :	371.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:43
Peak Outflow :	371.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:44
Total Inflow :	78.1 (AC-FT)	Total Outflow :	78.1 (AC-FT)

Reach "R-OB7" Results for Run "EV 100-yr Ex. Type II"



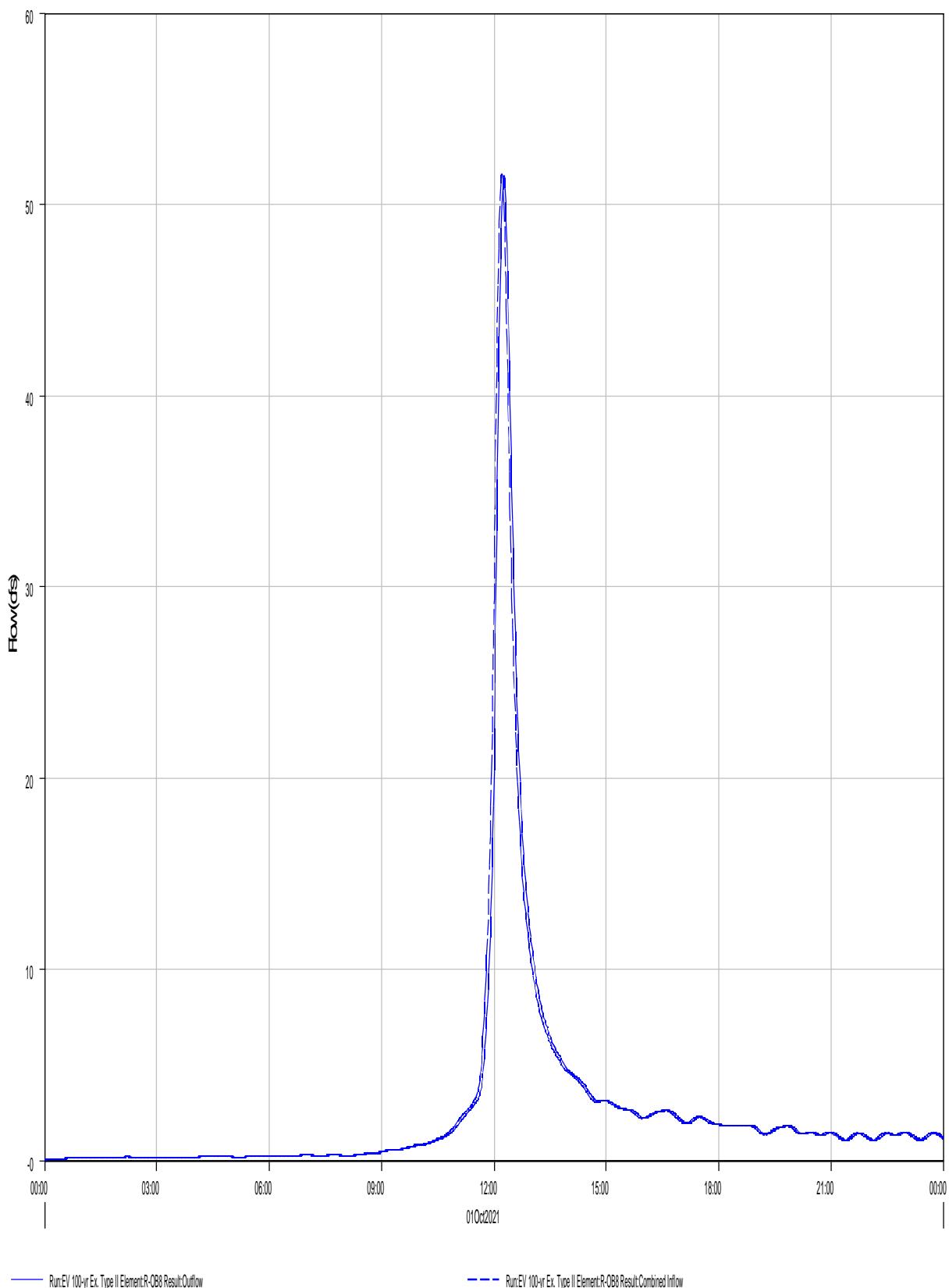
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Reach: R-OB7
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	478.0 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:44
Peak Outflow :	477.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:46
Total Inflow :	97.8 (AC-FT)	Total Outflow :	97.7 (AC-FT)

Reach "R-QB8" Results for Run "EV 100-yr Ex. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Ex. Type II Reach: R-OB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Existing
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 11Mar2022, 10:12:01 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	51.6 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	51.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:16
Total Inflow :	5.4 (AC-FT)	Total Outflow :	5.4 (AC-FT)

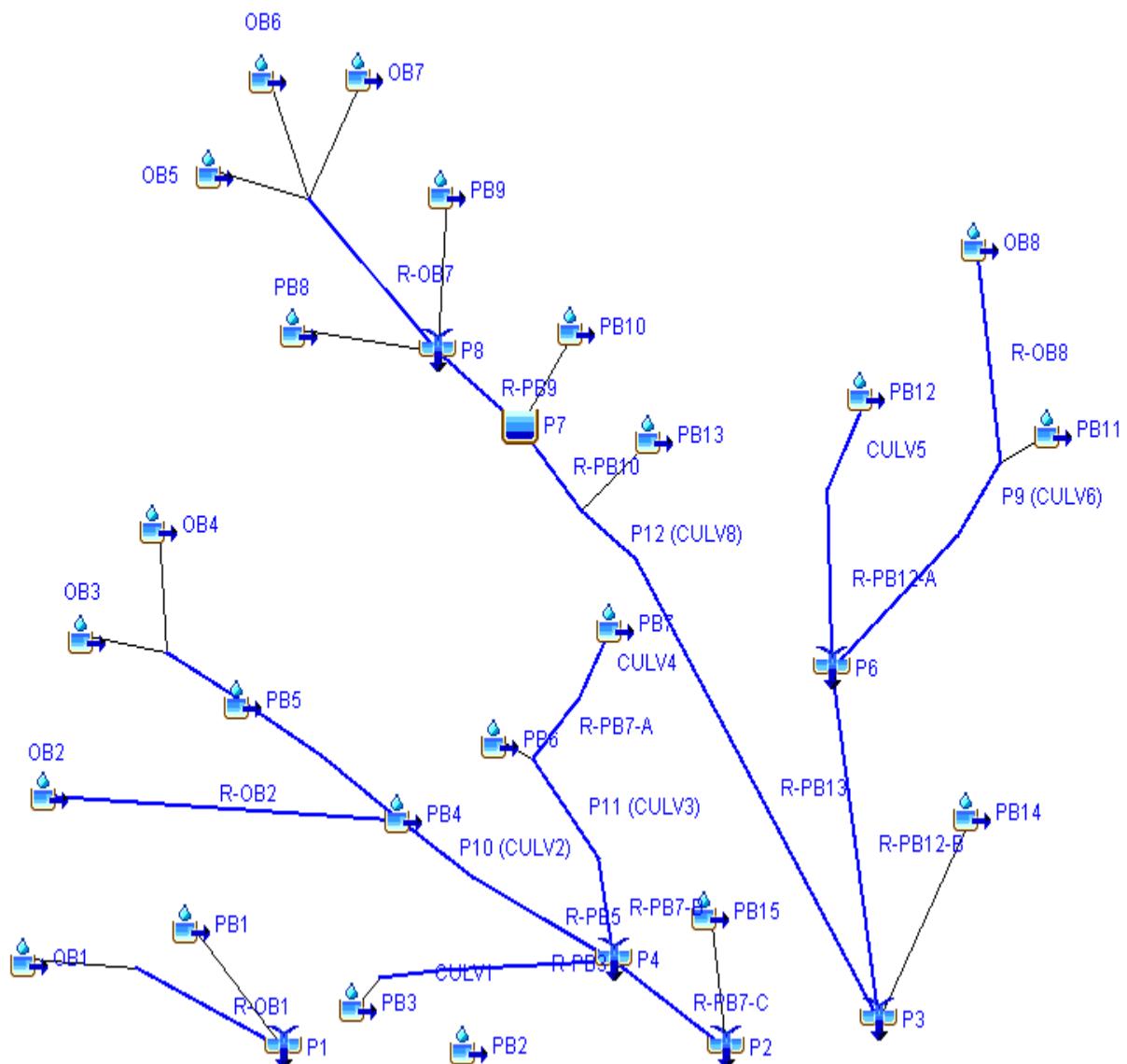


HEC-HMS

Project : Eagleview_Subdivision

Basin Model : Eagleview_Proposed

Mar 16 08:36:57 MDT 2022



IMPERVIOUS FACTOR CALCULATION TABLE - PROPOSED CONDITIONS

Post Runoff Analysis
Time of Concentration

Project Information

Project Name:	Eagleview
KHA Project #:	196288000
Designed by:	DCM
Revised by:	
Checked by:	BAH
Minimum Time of Concentration	5.0
2YR-24HR Rainfall, P2	2.10

Minimum Time of Concentration **5.0** minutes
2YR-24HR Rainfall, P2 **2.10**

Post-Development												
Drainage Area: OB1												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.073	0.15	2.10		U				17.35	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	1118.00	0.058							3.14	5.93	
Post-Development Time of Concentration, OB1											23.28	13.97

Post-Development												
Drainage Area: OB2												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.063	0.15	2.10		U				18.41	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	554.00	0.046							3.45	2.67	
CHANNEL	T2 CHANNEL FLOW	841.00	0.029	0.05		U	9.50	6.60	1.44	6.45	2.17	
Post-Development Time of Concentration, OB2											23.26	13.95

Post-Development												
Drainage Area: OB3												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.074	0.15	2.10		U				17.26	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	2436.00	0.034							2.97	13.65	
Post-Development Time of Concentration, OB3											30.91	18.55

Post-Development												
Drainage Area: OB4												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.042	0.15	2.10		U				21.65	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	78.00	0.038							3.16	4.13	
CHANNEL	T2 CHANNEL FLOW	577.00	0.028	0.05		U	9.50	6.60	1.44	6.36	1.51	
Post-Development Time of Concentration, OB4											27.29	16.38

Post-Development												
Drainage Area: OB5												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.037	0.40	2.10		U				49.91	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	3824.00	0.033							2.93	21.83	
CHANNEL	T2 CHANNEL FLOW	1407.00	0.024	0.04		U	9.50	6.60	1.44	7.36	3.19	
Post-Development Time of Concentration, OB5											74.93	44.96

Post-Development												
Drainage Area: OB6												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.064	0.40	2.10		U				40.09	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	2569.00	0.038							3.14	13.62	
CHANNEL	T2 CHANNEL FLOW	2110.00	0.027	0.04		U	9.50	6.60	1.44	7.73	4.55	
Post-Development Time of Concentration, OB6											58.25	34.95

Post-Development												
Drainage Area: OB7												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.028	0.40	2.10		U				55.80	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	2066.00	0.036							3.06	11.26	
CHANNEL	T2 CHANNEL FLOW	6198.00	0.033	0.04		U	12.00	22.00	0.55	4.09	25.29	
Post-Development Time of Concentration, OB7											92.35	55.41

Post-Development												
Drainage Area: PB1												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	300.00	0.033	0.15	2.10		U				23.84	
SHALLOW CONCENTRATED	T2 SHALLOW CONCENTRATED FLOW	400.00	0.041							3.27	2.04	
Post-Development Time of Concentration, PB1											25.88	15.53

Post-Development												
Drainage Area: PB2												
		Flow Length, L (ft)	Slope, s (ft/ft)	Manning's Roughness Coefficient, n	Two-year, 24-hr rainfall, P2 (in)	Paved or Unpaved	Cross Sectional Area of Flow, A (ft ²)	Wetted Perimeter, pw (ft)	Hydraulic radius, r (ft)	Average Velocity, V (ft/s)**	Travel Time, Tt (min)	Lag Time (min)
SHEET	T1 SHEET FLOW	227.00	0.033	0.15								

Post Runoff Analysis

Composite CN

Project Name: Eagleview
 KHA Project #: 196288000
 Designed by: DCM Date: 3/17/2022
 Revised by: _____ Date: _____
 Revised by: _____ Date: _____
 Checked by: BAH Date: 3/17/2022

Post-Development					
Drainage Area: OB1					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	9.79	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.38	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	0.20	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB1		63.76		10.37	0.569

Post-Development					
Drainage Area: OB2					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	25.92	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.86	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	1.28	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB2		64.16		28.06	0.559

Post-Development					
Drainage Area: OB3					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	40.88	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.89	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	1.67	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB3		63.62		43.44	0.572

Post-Development					
Drainage Area: OB4					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	9.55	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.52	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	0.43	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB4		64.71		10.50	0.545

Post-Development					
Drainage Area: OB5					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	28.58	--
RESIDENTIAL	RR-5 (Woods Landuse)	B	58.00	109.48	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	1.12	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	4.64	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB5		59.98		143.82	0.667

Post-Development					
Drainage Area: OB6					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	60.64	--
RESIDENTIAL	RR-5 (Woods Landuse)	B	58.00	51.19	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	2.04	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	4.53	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB6		61.77		118.40	0.619

Post Runoff Analysis

Composite CN

Project Name: Eagleview
 KHA Project #: 196288000
 Designed by: DCM Date: 3/17/2022
 Revised by: _____ Date: _____
 Revised by: _____ Date: _____
 Checked by: BAH Date: 3/17/2022

Post-Development					
Drainage Area: OB7					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	122.08	--
RESIDENTIAL	RR-5 (Woods Landuse)	B	58.00	259.48	--
RESIDENTIAL	2.5 acre	B	64.00	16.02	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	5.46	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	18.17	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB7			61.07	421.20	0.637

Post-Development					
Drainage Area: OB8					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	RR-5 (Rangeland Landuse)	B	62.00	8.71	--
RESIDENTIAL	2.5 acre	B	64.00	21.76	--
RESIDENTIAL	1/2 acre (25% imp.)	B	71.00	0.79	--
IMPERVIOUS	Paved; curbs and storm sewers (excluding right-of-way)	B	98.00	0.24	--
IMPERVIOUS	Gravel (including right of way)	B	85.00	1.57	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - OB8			64.89	33.07	0.541

Post-Development					
Drainage Area: PB1					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	4.19	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.06	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - PB1			64.35	4.25	0.554

Post-Development					
Drainage Area: PB2					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	1.02	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.06	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - PB2			65.38	1.08	0.530

Post-Development					
Drainage Area: PB3					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	1.18	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.20	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - PB3			67.68	1.38	0.478

Post-Development					
Drainage Area: PB4					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	10.18	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.35	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - PB4			64.84	10.54	0.542

Post-Development					
Drainage Area: PB5					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	6.01	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.17	--
CUTSOM					
COMPOSITE SCS CURVE NUMBER - PB5			64.70	6.18	0.546

Post Runoff Analysis

Composite CN

Project Name: Eagleview
 KHA Project #: 196288000
 Designed by: DCM Date: 3/17/2022
 Revised by: _____ Date: _____
 Revised by: _____ Date: _____
 Checked by: BAH Date: 3/17/2022

Post-Development					
Drainage Area: PB6					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	10.50	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.59	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB6			65.33	11.09	0.531

Post-Development					
Drainage Area: PB7					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	5.28	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.31	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB7			65.38	5.59	0.530

Post-Development					
Drainage Area: PB8					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	11.72	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.06	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB8			64.13	11.78	0.559

Post-Development					
Drainage Area: PB9					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	12.60	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.20	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB9			64.39	12.80	0.553

Post-Development					
Drainage Area: PB10					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	11.25	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.26	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB10			64.57	11.52	0.549

Post-Development					
Drainage Area: PB11					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	15.60	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.51	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB11			64.80	16.11	0.543

Post-Development					
Drainage Area: PB12					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	0.10	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.10	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB12			76.50	0.20	0.307

Post Runoff Analysis

Composite CN

Project Name: Eagleview
 KHA Project #: 196288000
 Designed by: DCM Date: 3/17/2022
 Revised by: _____ Date: _____
 Revised by: _____ Date: _____
 Checked by: BAH Date: 3/17/2022

Post-Development					
Drainage Area: PB13					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	B	64.00	1.68	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.08	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB13		65.12		1.76	0.536

Post-Development					
Drainage Area: PB14					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	A	45.00	0.28	--
RESIDENTIAL	2.5 acre	B	64.00	16.54	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.46	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB14		63.64		17.28	0.571

Post-Development					
Drainage Area: PB15					
COVER DESCRIPTION	HYDROLOGIC CONDITION OR COVER TYPE	HYDROLOGIC SOIL GROUP	SCS CURVE NUMBER (CN)	AREA, A (ac.)	INITIAL ABSTRACTION, IA
RESIDENTIAL	2.5 acre	A	45.00	0.61	--
RESIDENTIAL	2.5 acre	B	64.00	8.38	--
IMPERVIOUS	Paved; open ditches (including right-of-way)	B	89.00	0.65	--
CUT/SOM					
COMPOSITE SCS CURVE NUMBER - PB15		61.65		9.63	0.622

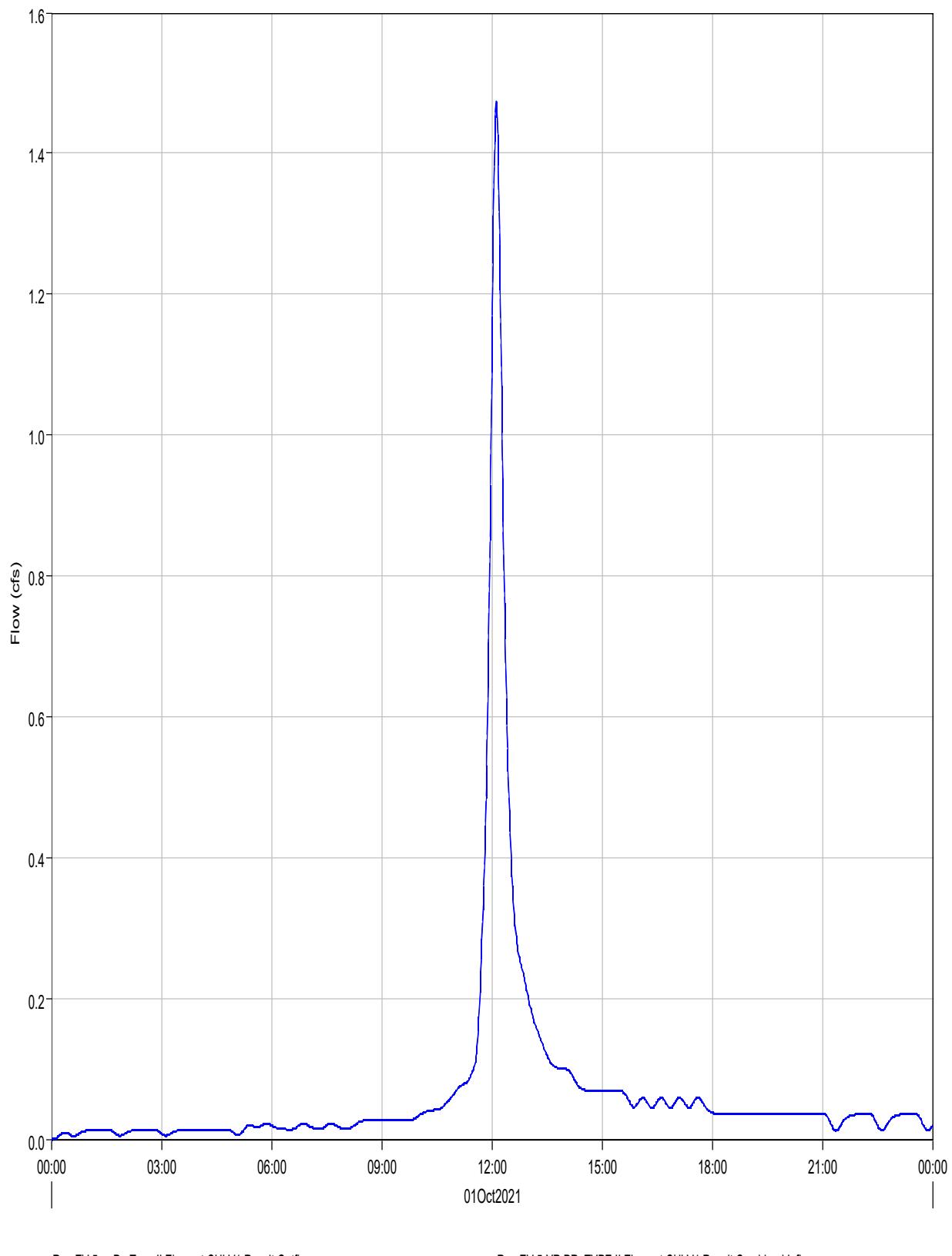
Project: Eagleview_Subdivision Simulation Run: EV 5-yr Pr. Type II

Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
 End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
 Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
CULV1	0.0021625	1.5	01Oct2021, 12:08	0.1
CULV4	0.0087281	4.7	01Oct2021, 12:08	0.4
CULV5	.000315625	0.5	01Oct2021, 12:00	0.0
OB1	0.0162031	7.1	01Oct2021, 12:08	0.7
OB2	0.0438438	20.6	01Oct2021, 12:08	1.9
OB3	0.0678750	25.3	01Oct2021, 12:13	2.8
OB4	0.0164062	7.5	01Oct2021, 12:10	0.8
OB5	0.22472	36.8	01Oct2021, 12:42	7.4
OB6	0.18501	42.1	01Oct2021, 12:30	7.0
OB7	0.65812	101.4	01Oct2021, 12:53	23.3
OB8	0.0516699	19.0	01Oct2021, 12:13	2.1
P1	0.0228484	10.1	01Oct2021, 12:10	1.0
P10 (CULV2)	0.15425	57.9	01Oct2021, 12:13	6.7
P11 (CULV3)	0.0260593	13.2	01Oct2021, 12:10	1.3
P12 (CULV8)	1.1270	131.8	01Oct2021, 13:19	33.3
P2	0.19753	74.1	01Oct2021, 12:14	8.9
P3	1.2312	137.9	01Oct2021, 13:19	37.8
P4	0.18248	72.2	01Oct2021, 12:13	8.1
P5 (CULV7)	0.0939437	36.8	01Oct2021, 12:13	4.0
P6	0.0771621	29.9	01Oct2021, 12:15	3.3
P7	1.1242	131.7	01Oct2021, 13:18	33.2
P8	1.1062	173.4	01Oct2021, 12:46	39.3
P9 (CULV6)	0.0768465	29.8	01Oct2021, 12:14	3.3
PB1	0.0066453	3.0	01Oct2021, 12:10	0.3
PB10	0.0179938	8.2	01Oct2021, 12:11	0.8
PB11	0.0251766	12.1	01Oct2021, 12:10	1.2

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
PB12	.000315625	0.5	01Oct2021, 12:00	0.0
PB13	0.0027469	2.2	01Oct2021, 12:00	0.1
PB14	0.0270031	18.9	01Oct2021, 12:01	1.2
PB15	0.0150500	11.0	01Oct2021, 12:00	0.7
PB2	0.0016938	1.0	01Oct2021, 12:06	0.1
PB3	0.0021625	1.5	01Oct2021, 12:07	0.1
PB4	0.0164672	12.6	01Oct2021, 12:00	0.8
PB5	0.0096625	4.2	01Oct2021, 12:12	0.5
PB6	0.0173312	8.6	01Oct2021, 12:11	0.9
PB7	0.0087281	4.7	01Oct2021, 12:08	0.4
PB8	0.0184000	12.1	01Oct2021, 12:01	0.8
PB9	0.0199984	9.8	01Oct2021, 12:08	0.9
R-OB1	0.0162031	7.1	01Oct2021, 12:10	0.7
R-OB2	0.0438438	20.5	01Oct2021, 12:10	1.9
R-OB4-A	0.0842812	32.6	01Oct2021, 12:13	3.5
R-OB4-B	0.0939437	36.7	01Oct2021, 12:15	4.0
R-OB7	1.0678	170.1	01Oct2021, 12:46	37.6
R-OB8	0.0516699	19.0	01Oct2021, 12:16	2.1
R-PB10	1.1242	131.6	01Oct2021, 13:19	33.2
R-PB11	0.0768465	29.8	01Oct2021, 12:15	3.3
R-PB12-A	.000315625	0.5	01Oct2021, 12:02	0.0
R-PB12-B	0.0771621	29.9	01Oct2021, 12:17	3.3
R-PB13	1.1270	131.7	01Oct2021, 13:21	33.2
R-PB3	0.0021625	1.5	01Oct2021, 12:09	0.1
R-PB5	0.15425	57.9	01Oct2021, 12:14	6.7
R-PB7-A	0.0087281	4.7	01Oct2021, 12:10	0.4
R-PB7-B	0.0260593	13.2	01Oct2021, 12:12	1.3
R-PB7-C	0.18248	72.1	01Oct2021, 12:14	8.1
R-PB9	1.1062	173.3	01Oct2021, 12:47	39.3

Reach "CULV1" Results for Run "EV 5-yr Pr. Type II"



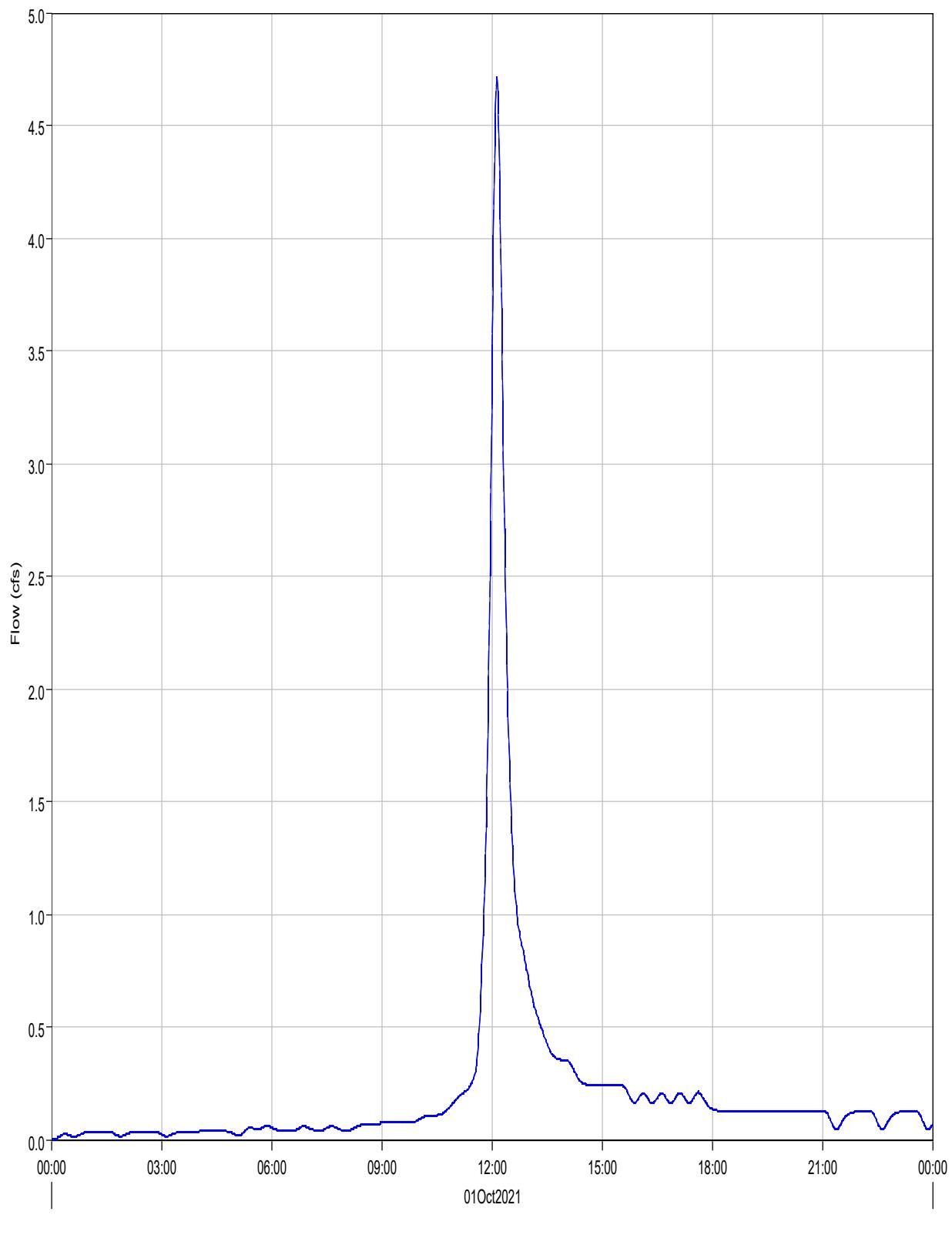
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: CULV1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	1.5 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:07
Peak Outflow :	1.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:08
Total Inflow :	0.1 (AC-FT)	Total Outflow :	0.1 (AC-FT)

Reach "CULV4" Results for Run "EV 5-yr Pr. Type II"



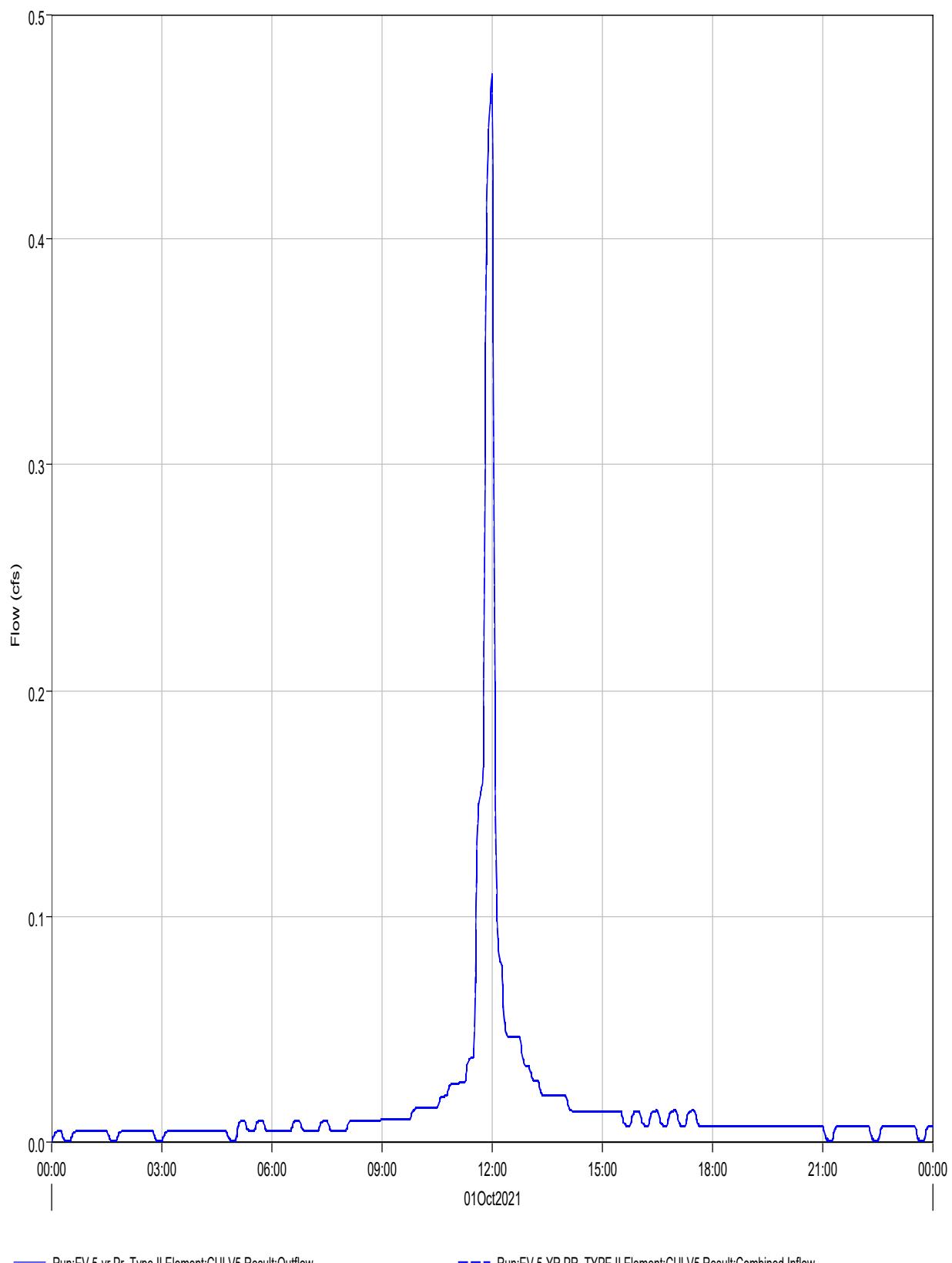
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: CULV4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	4.7 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	4.7 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:08
Total Inflow :	0.4 (AC-FT)	Total Outflow :	0.4 (AC-FT)

Reach "CULV5" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: CULV5

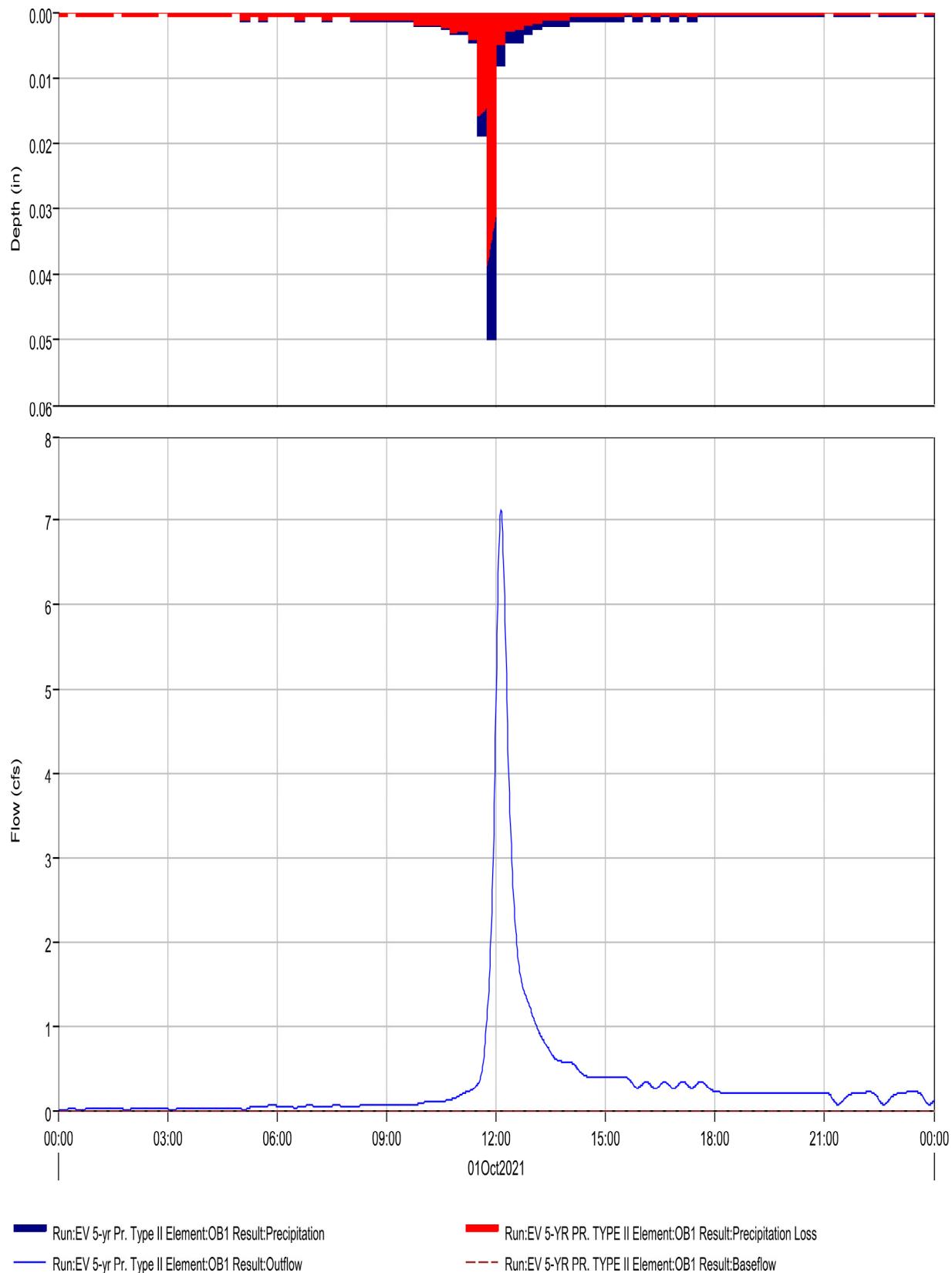
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Inflow :	0.5 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:00
Peak Outflow :	0.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:00
Total Inflow :	1.95 (IN)	Total Outflow :	1.95 (IN)

Subbasin "OB1" Results for Run "EV 5-yr Pr. Type II"



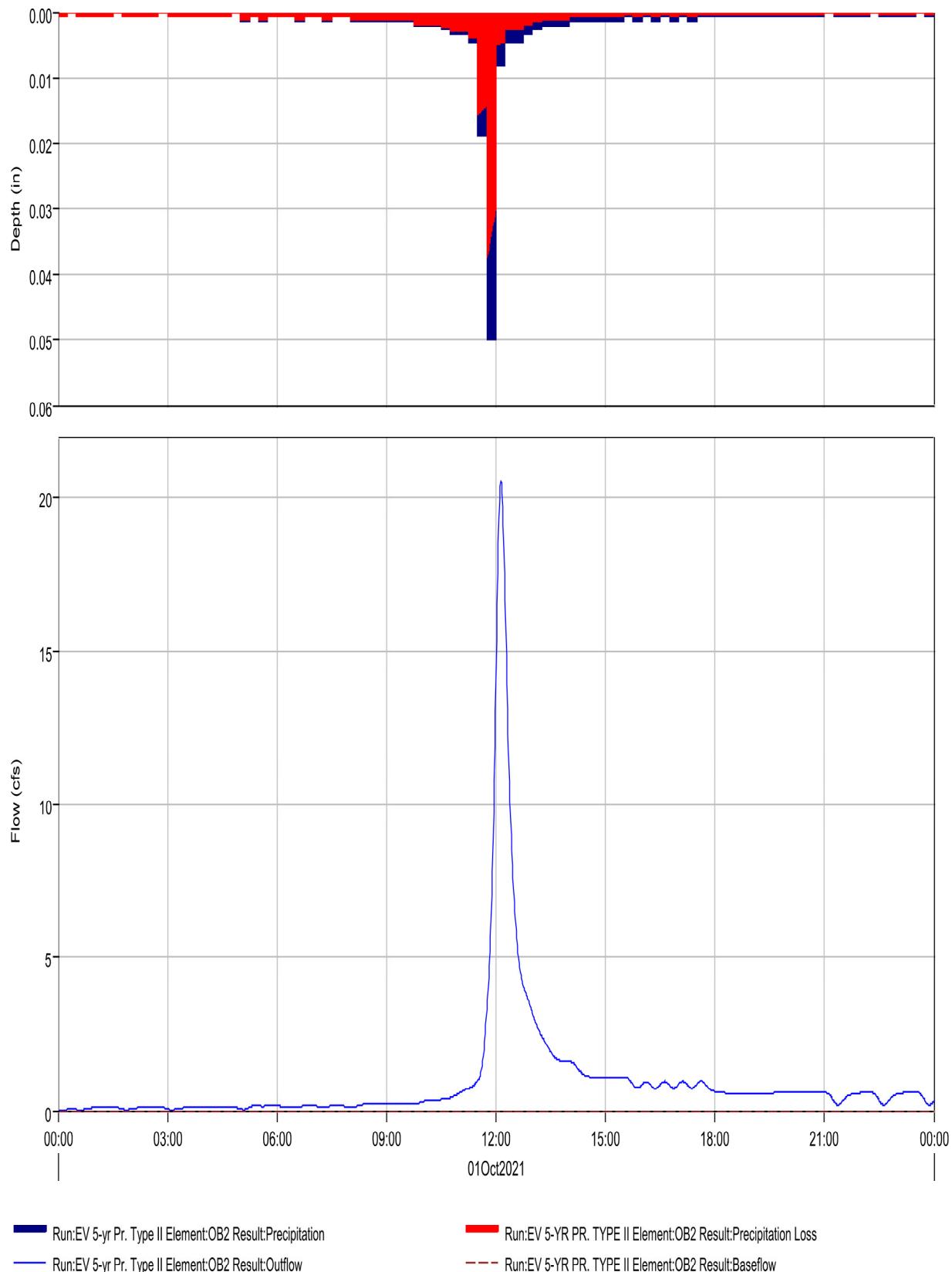
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	7.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	2.3 (AC-FT)	Total Direct Runoff :	0.7 (AC-FT)
Total Loss :	1.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.7 (AC-FT)	Discharge :	0.7 (AC-FT)

Subbasin "OB2" Results for Run "EV 5-yr Pr. Type II"



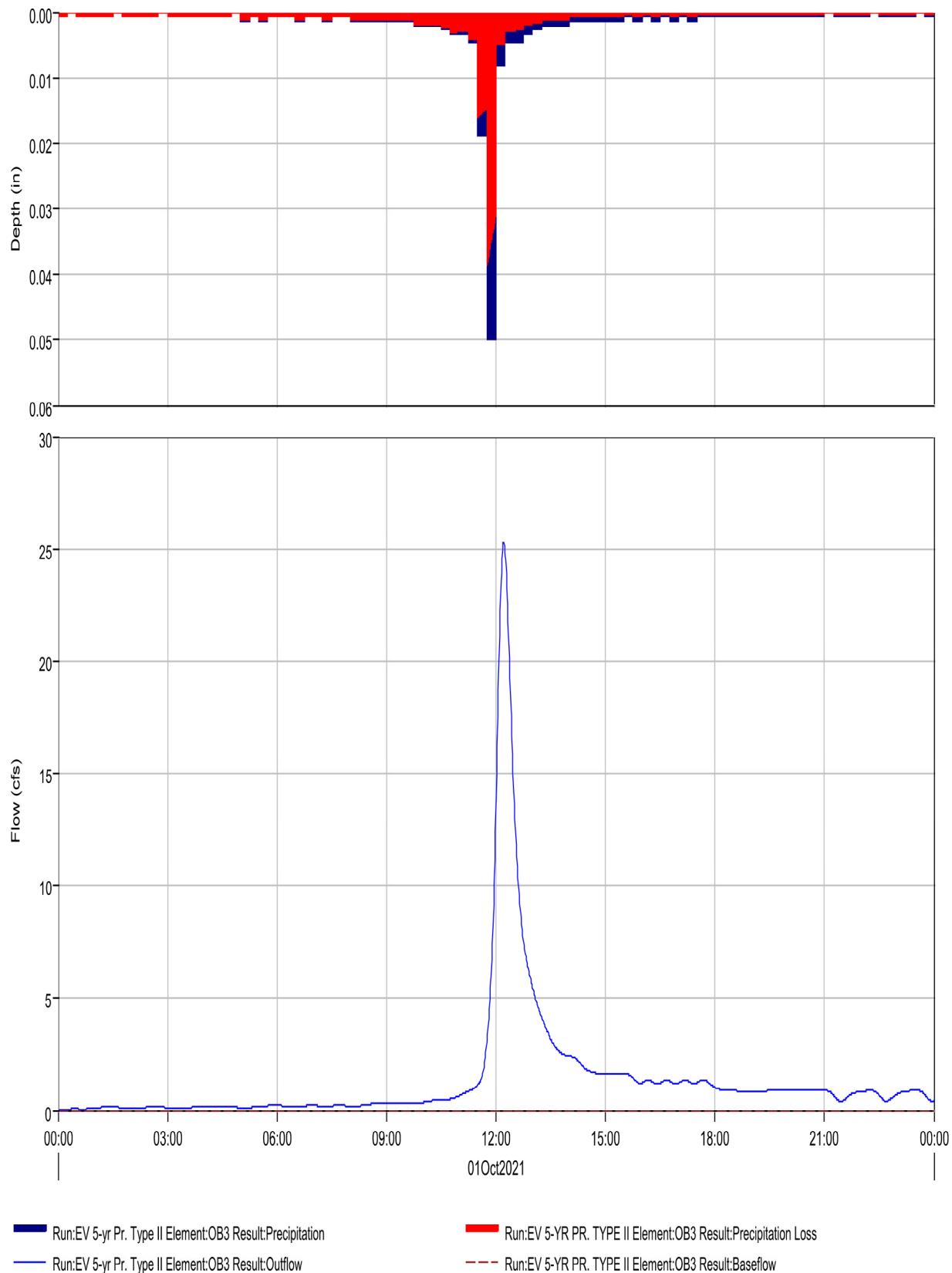
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	20.6 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	6.3 (AC-FT)	Total Direct Runoff :	1.9 (AC-FT)
Total Loss :	4.4 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.9 (AC-FT)	Discharge :	1.9 (AC-FT)

Subbasin "OB3" Results for Run "EV 5-yr Pr. Type II"



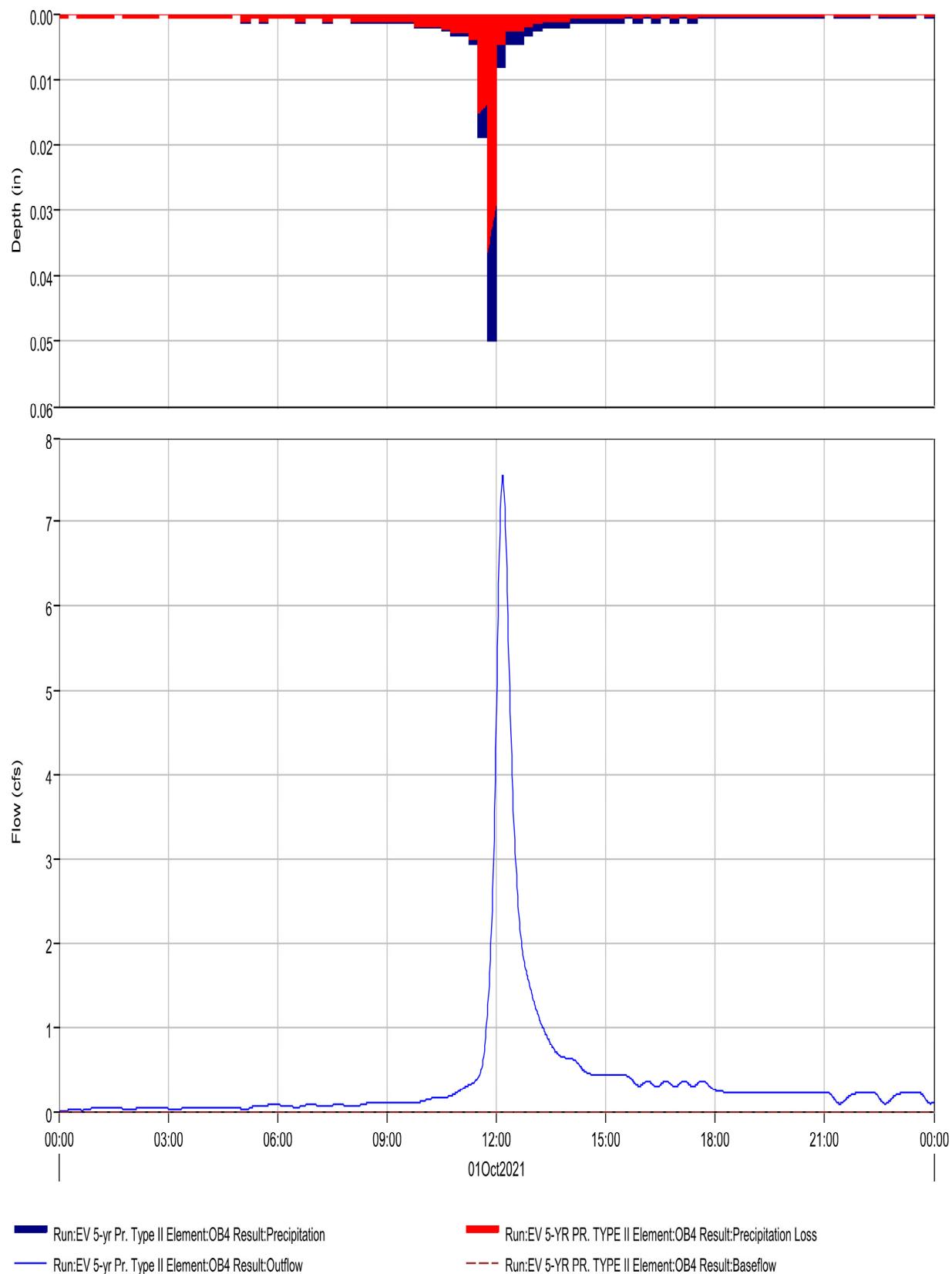
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	25.3 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:13
Total Precipitation :	9.8 (AC-FT)	Total Direct Runoff :	2.8 (AC-FT)
Total Loss :	7.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.8 (AC-FT)	Discharge :	2.8 (AC-FT)

Subbasin "OB4" Results for Run "EV 5-yr Pr. Type II"



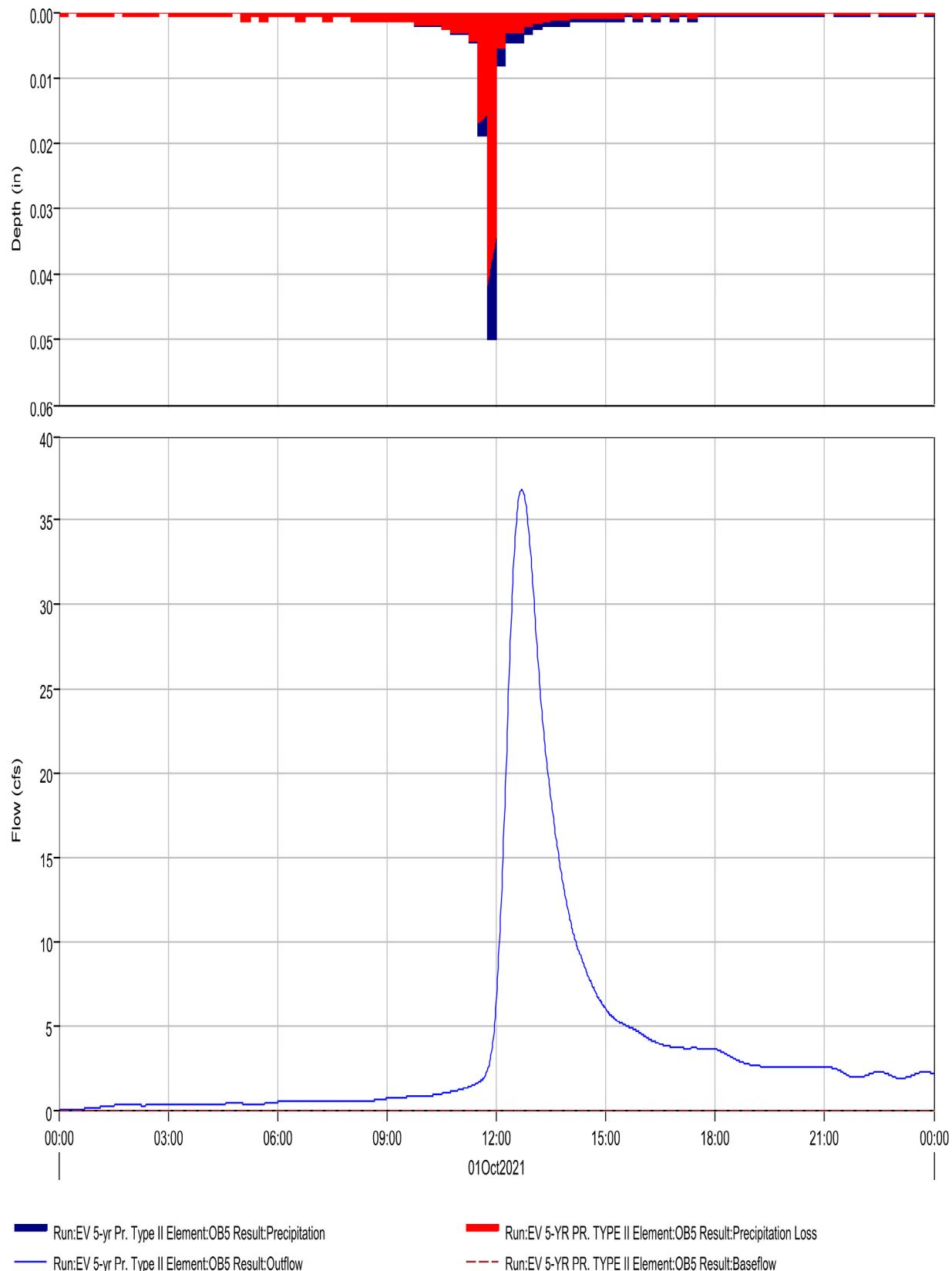
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	7.5 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	2.4 (AC-FT)	Total Direct Runoff :	0.8 (AC-FT)
Total Loss :	1.6 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.8 (AC-FT)	Discharge :	0.8 (AC-FT)

Subbasin "OB5" Results for Run "EV 5-yr Pr. Type II"



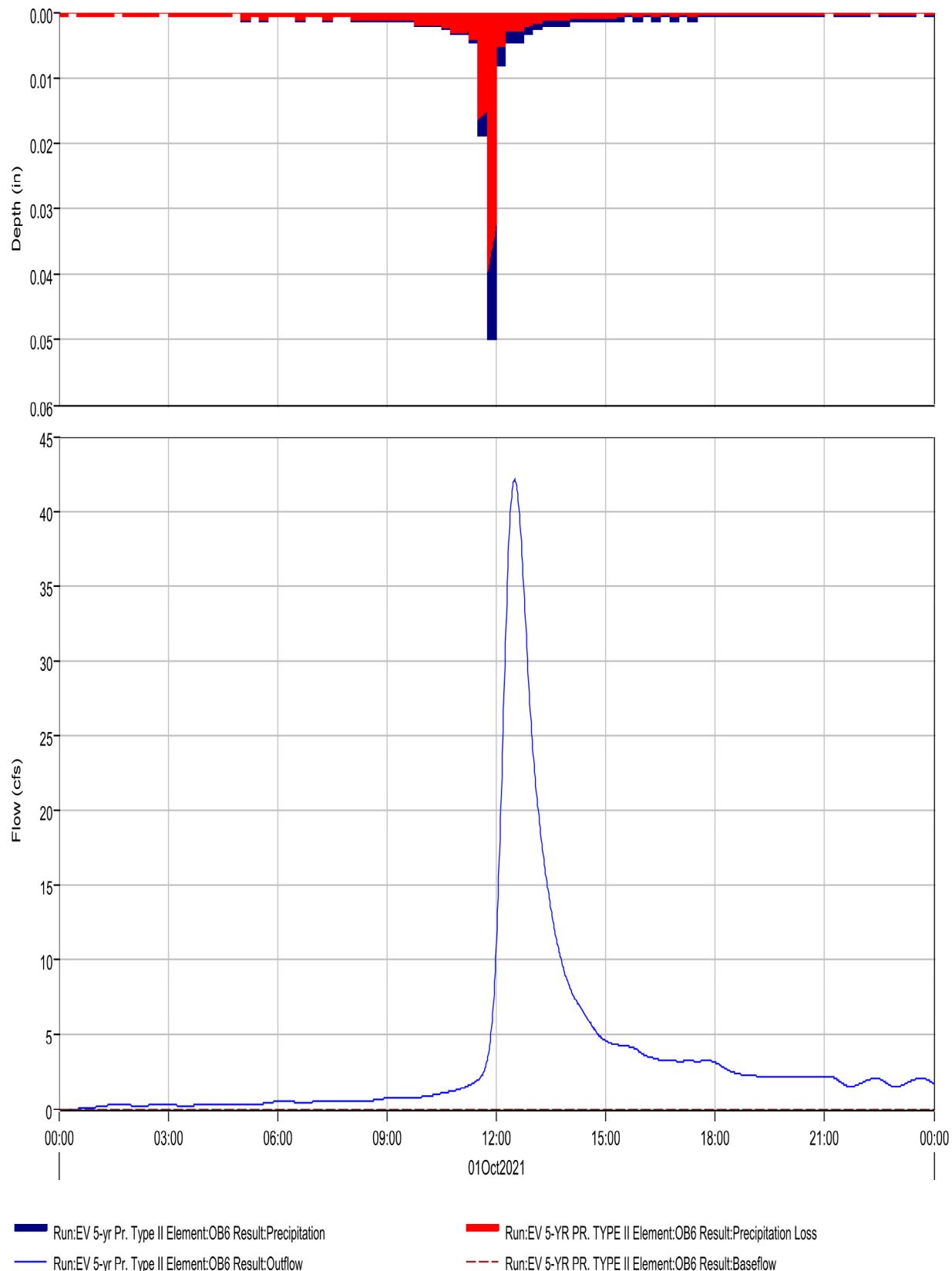
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB5
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Discharge :	36.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:42
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.62 (IN)
Total Loss :	2.07 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.63 (IN)	Discharge :	0.62 (IN)

Subbasin "OB6" Results for Run "EV 5-yr Pr. Type II"



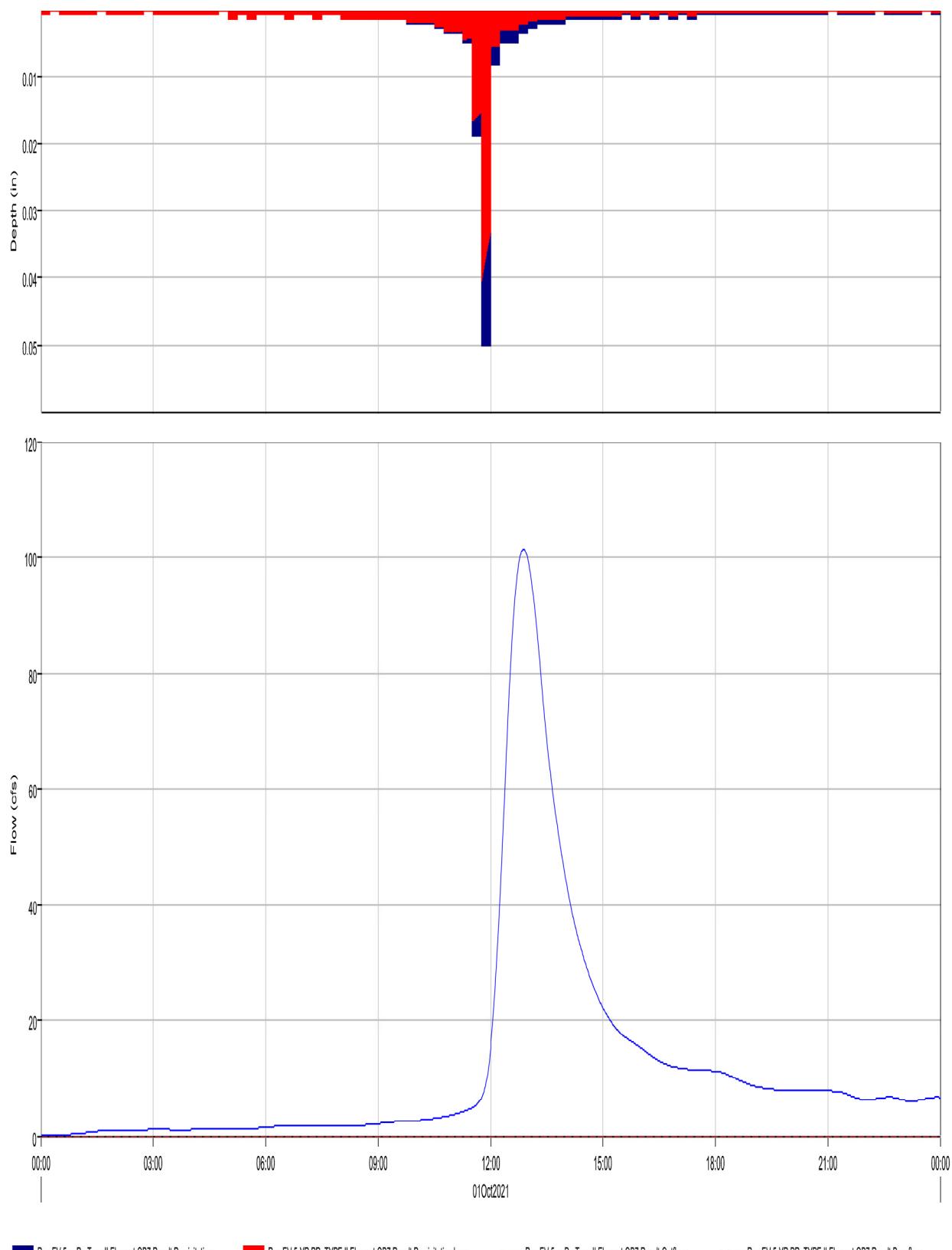
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Discharge :	42.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:30
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.71 (IN)
Total Loss :	1.98 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.72 (IN)	Discharge :	0.71 (IN)

Subbasin "OB7" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB7

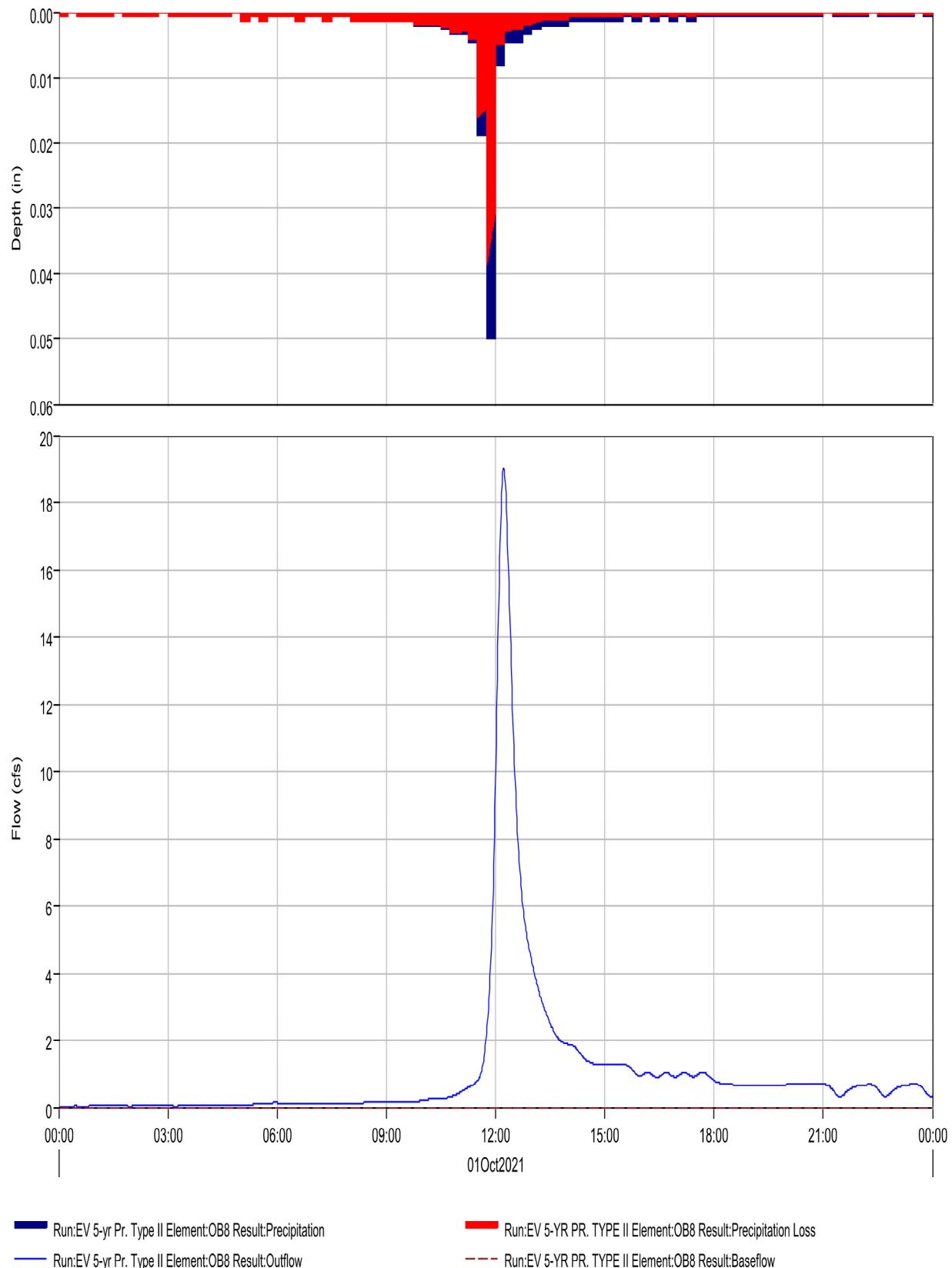
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Discharge :	101.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:53
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.66 (IN)
Total Loss :	2.02 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.68 (IN)	Discharge :	0.66 (IN)

Subbasin "OB8" Results for Run "EV 5-yr Pr. Type II"



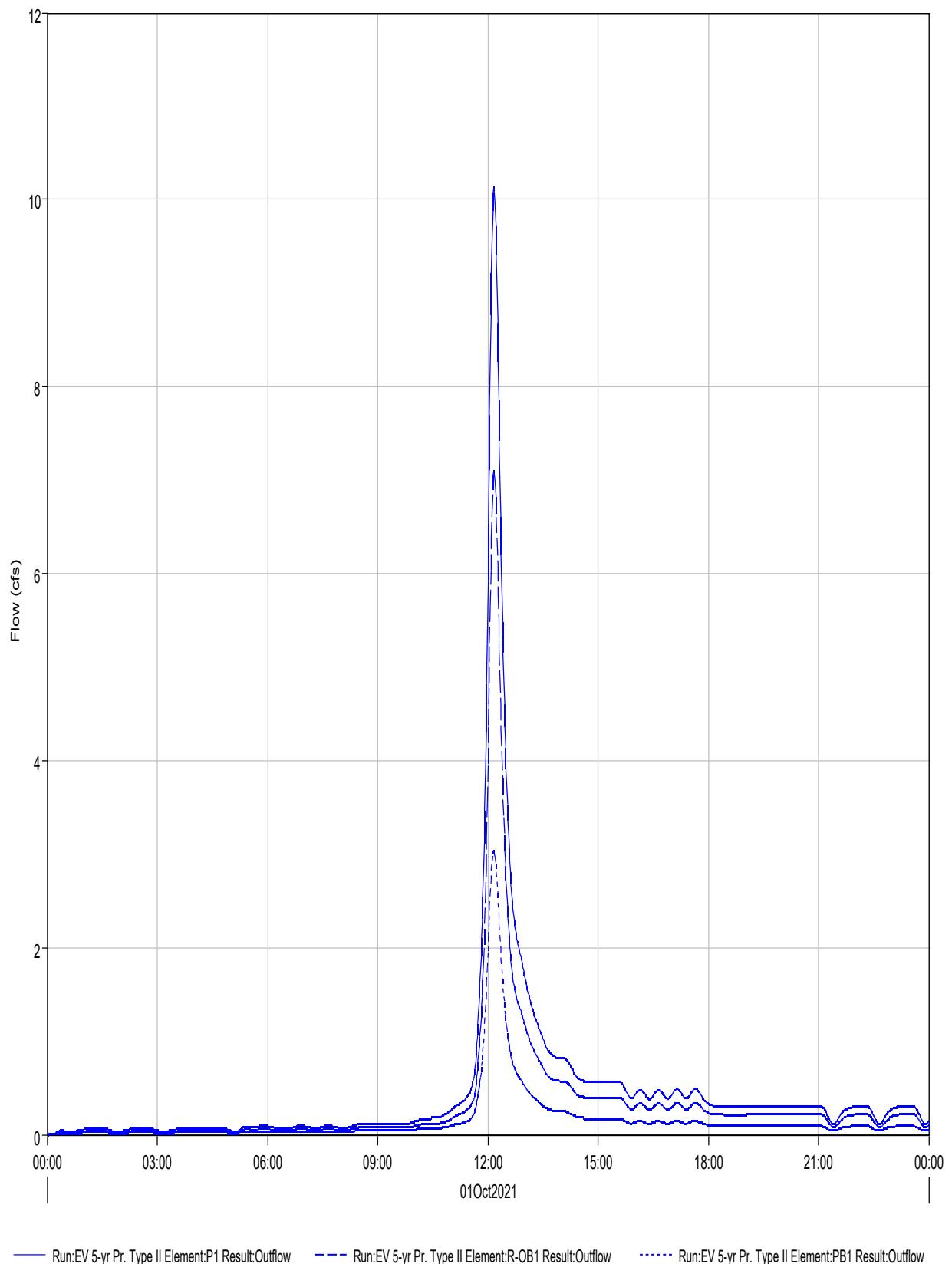
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: OB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Discharge :	19.0 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:13
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.76 (IN)
Total Loss :	1.94 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.76 (IN)	Discharge :	0.76 (IN)

Junction "P1" Results for Run "EV 5-yr Pr. Type II"



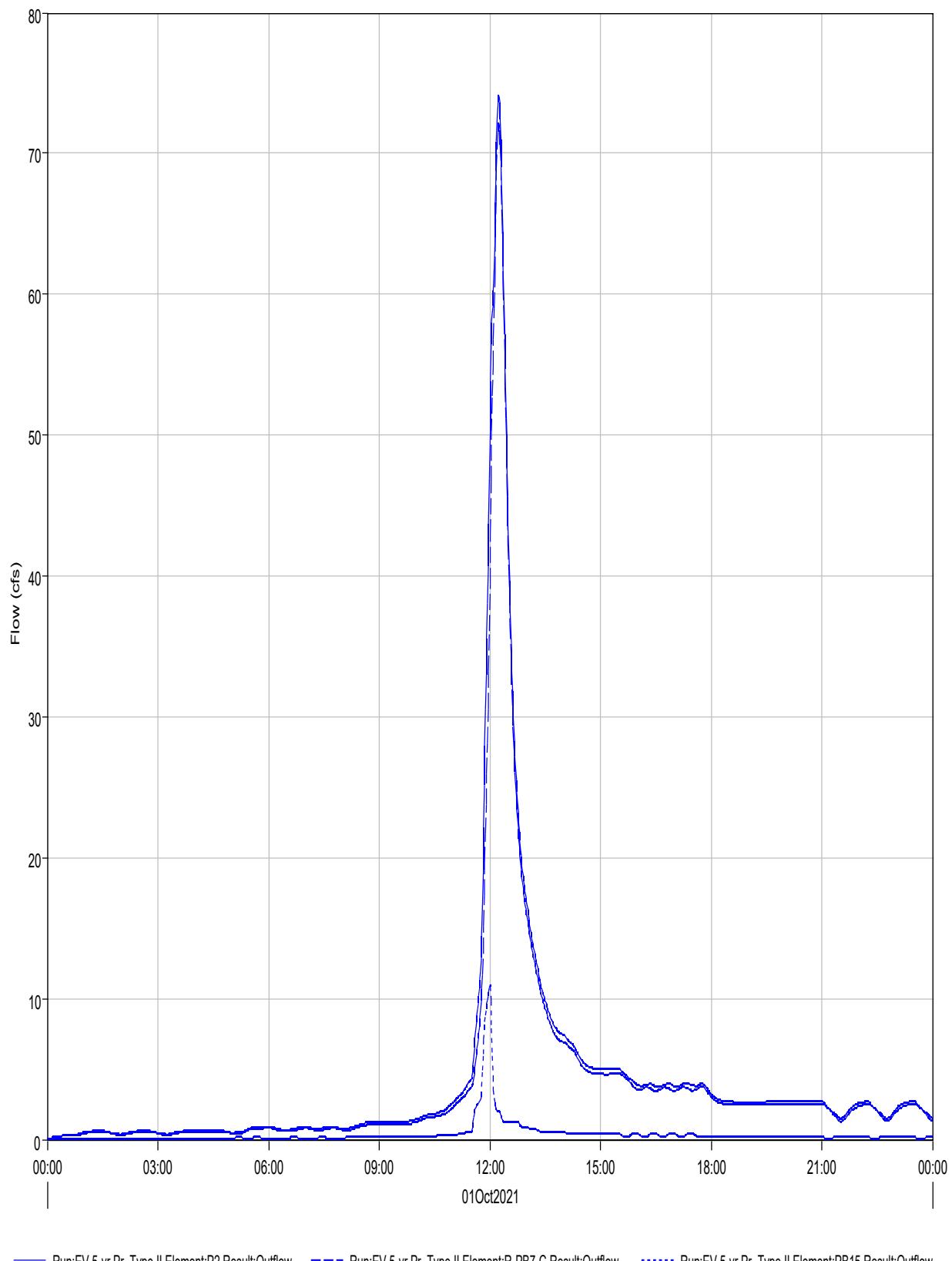
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Junction: P1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 10.1 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:10
Total Outflow : 1.0 (AC-FT)

Junction "P2" Results for Run "EV 5-yr Pr. Type II"



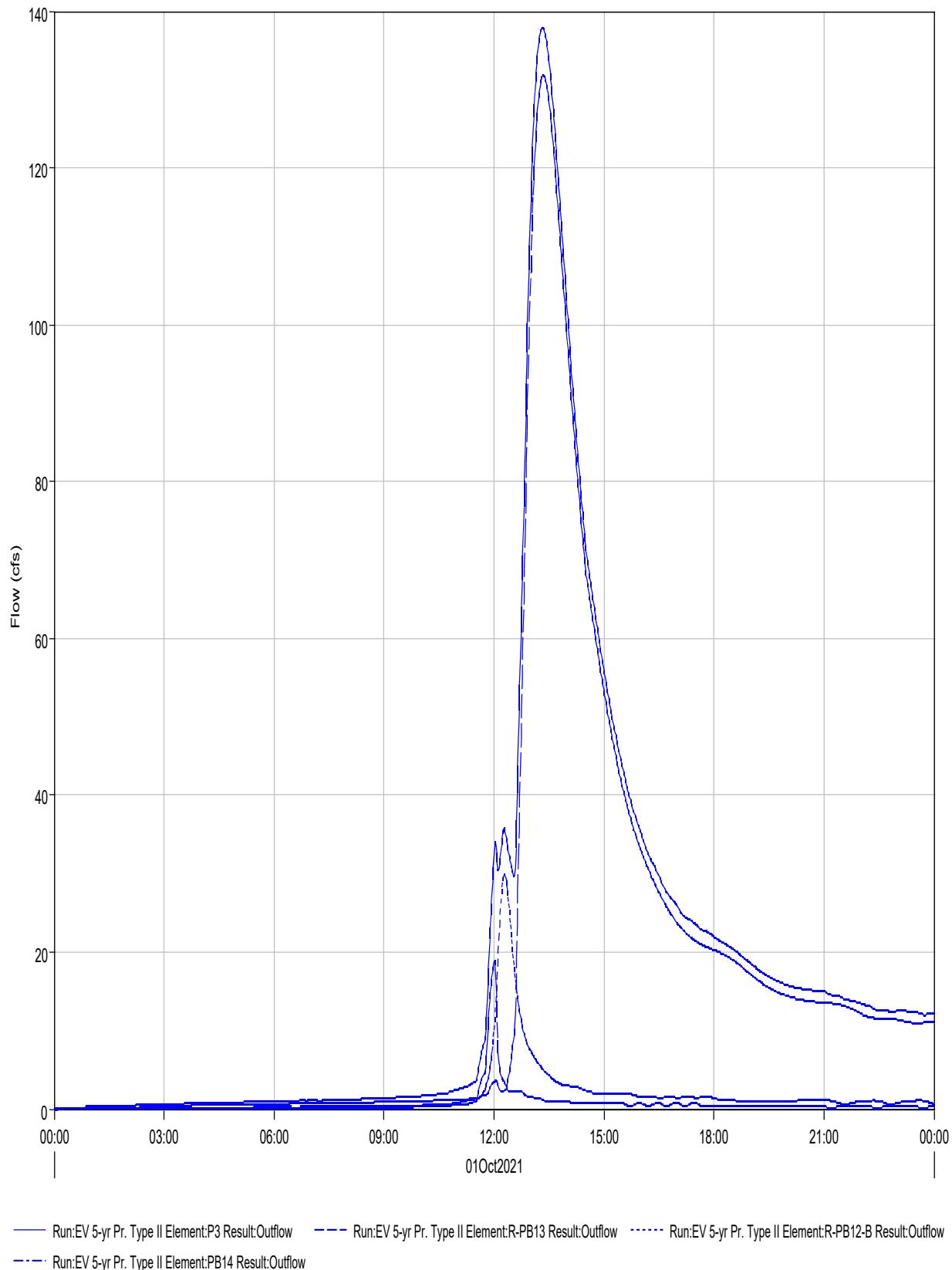
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Junction: P2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 74.1 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:14
Total Outflow : 8.9 (AC-FT)

Junction "P3" Results for Run "EV 5-yr Pr. Type II"



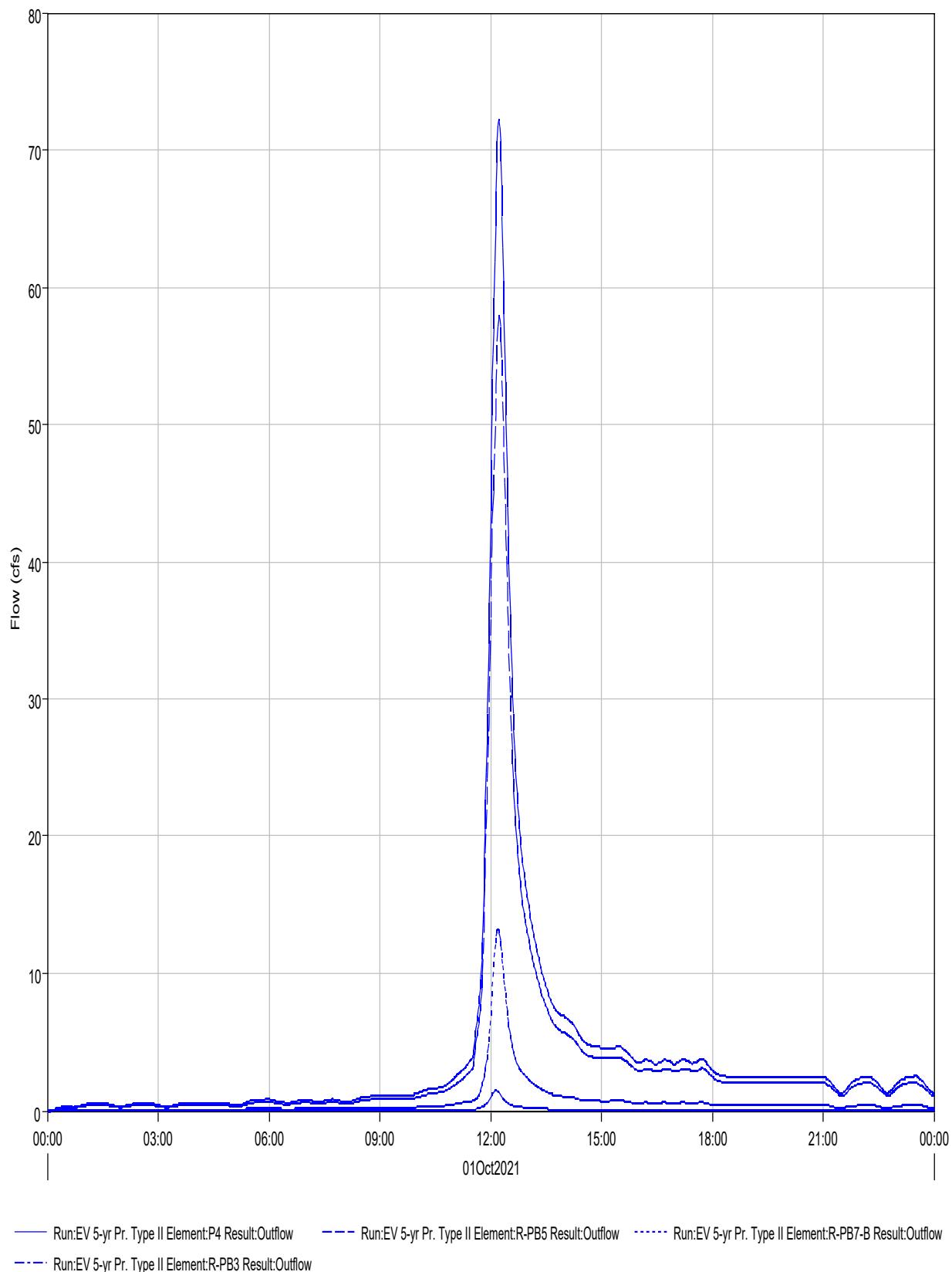
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Junction: P3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 137.9 (CFS) Date/Time of Peak Outflow : 01Oct2021, 13:19
Total Outflow : 37.8 (AC-FT)

Junction "P4" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Junction: P4

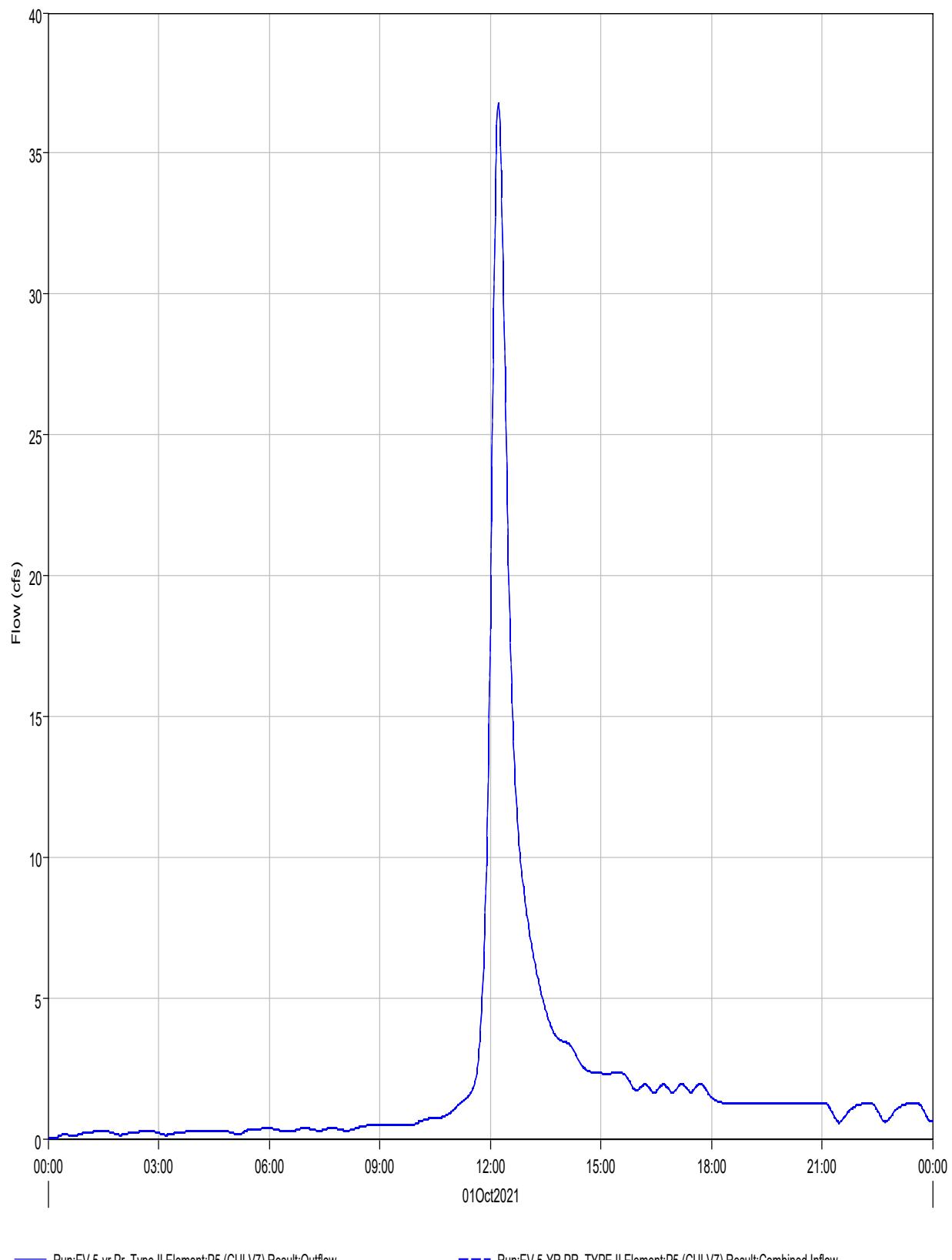
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 72.2 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:13
Total Outflow : 8.1 (AC-FT)

Reach "P5 (CULV7)" Results for Run "EV 5-yr Pr. Type II"



— Run:EV 5-yr Pr. Type II Element:P5 (CULV7) Result:Outflow

- - Run:EV 5-YR PR. TYPE II Element:P5 (CULV7) Result:Combined Inflow

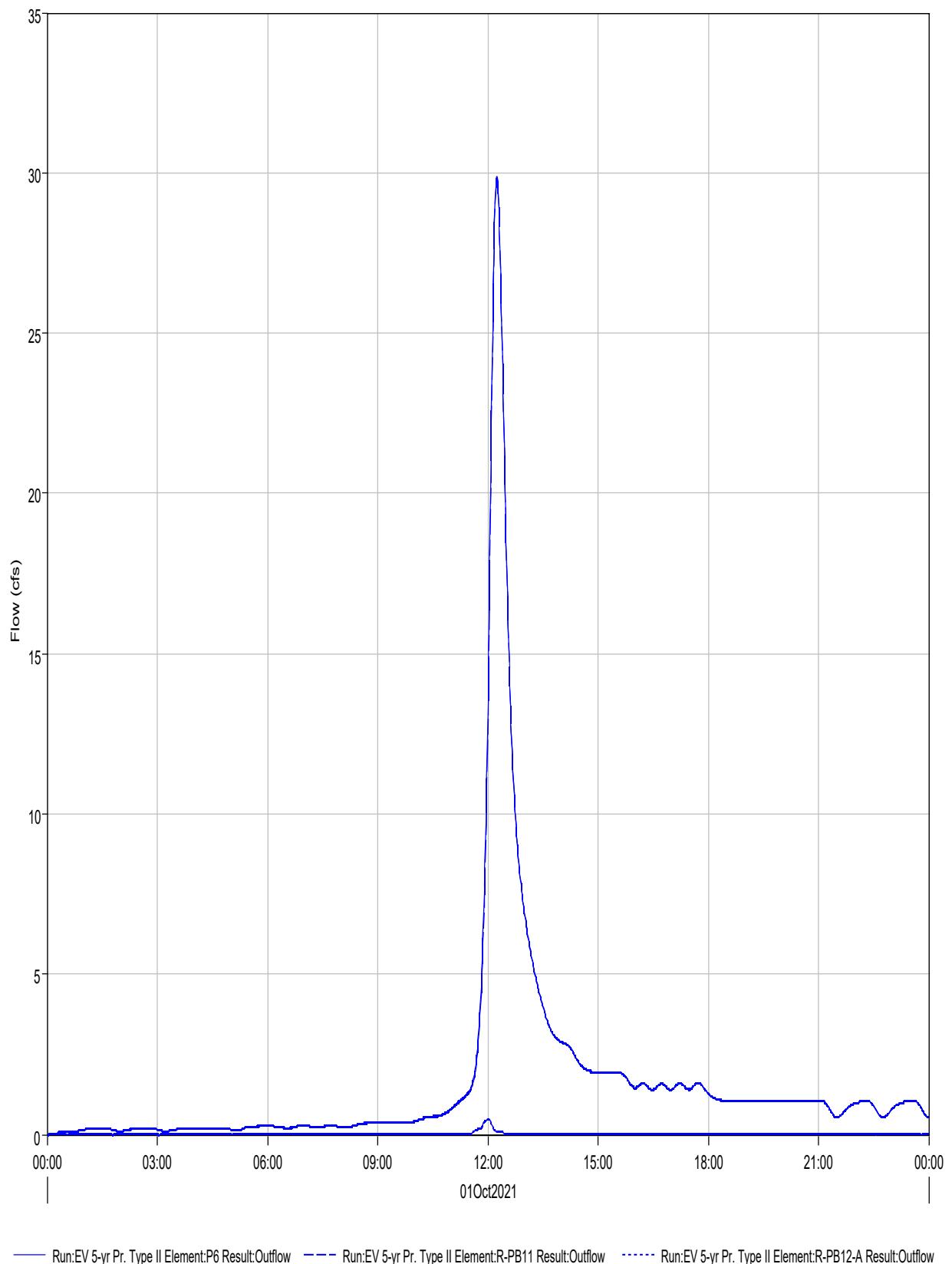
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: P5 (CULV7)
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	36.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	36.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	4.0 (AC-FT)	Total Outflow :	4.0 (AC-FT)

Junction "P6" Results for Run "EV 5-yr Pr. Type II"



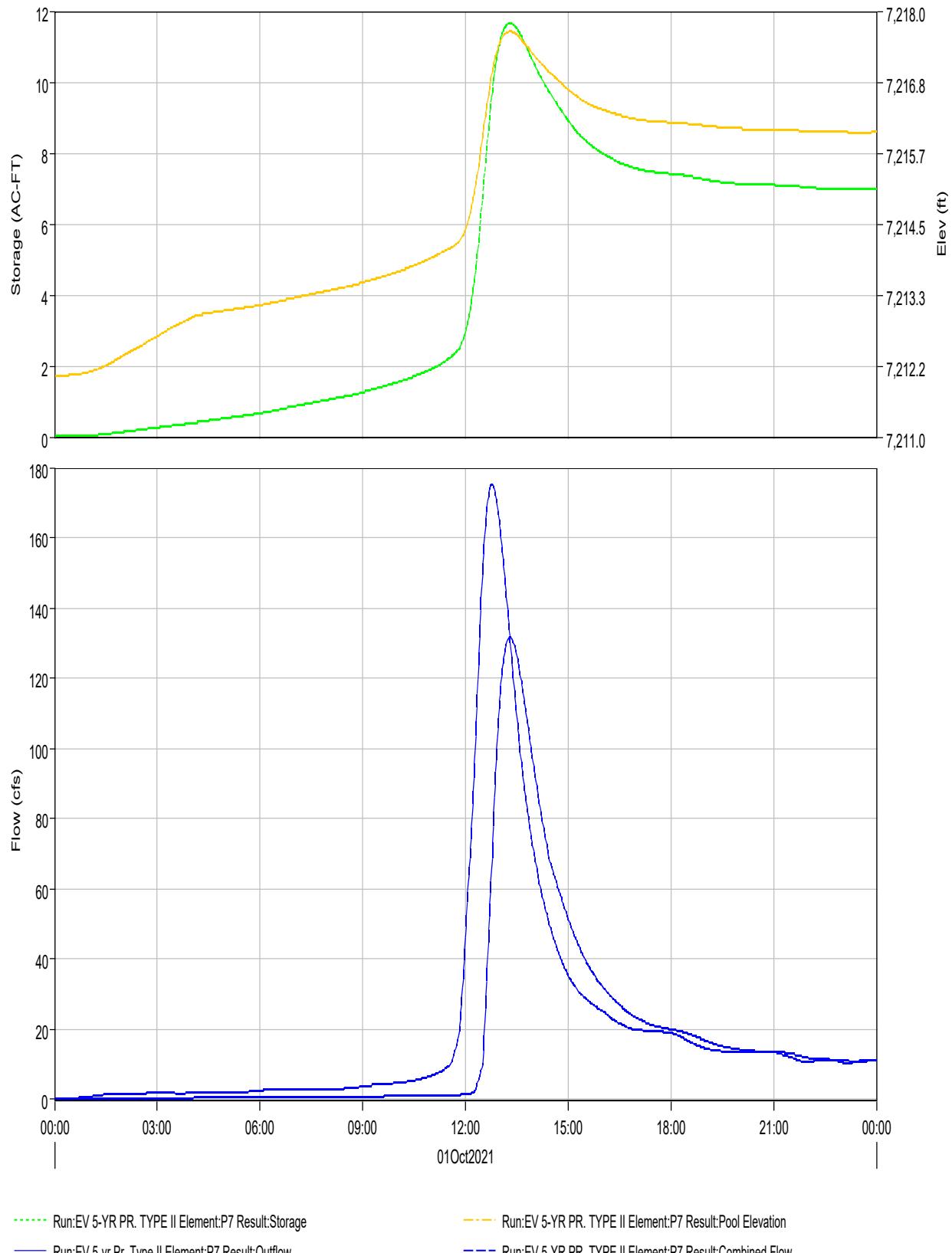
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Junction: P6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 29.9 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:15
Total Outflow : 3.3 (AC-FT)

Reservoir "P7" Results for Run "EV 5-yr Pr. Type II"



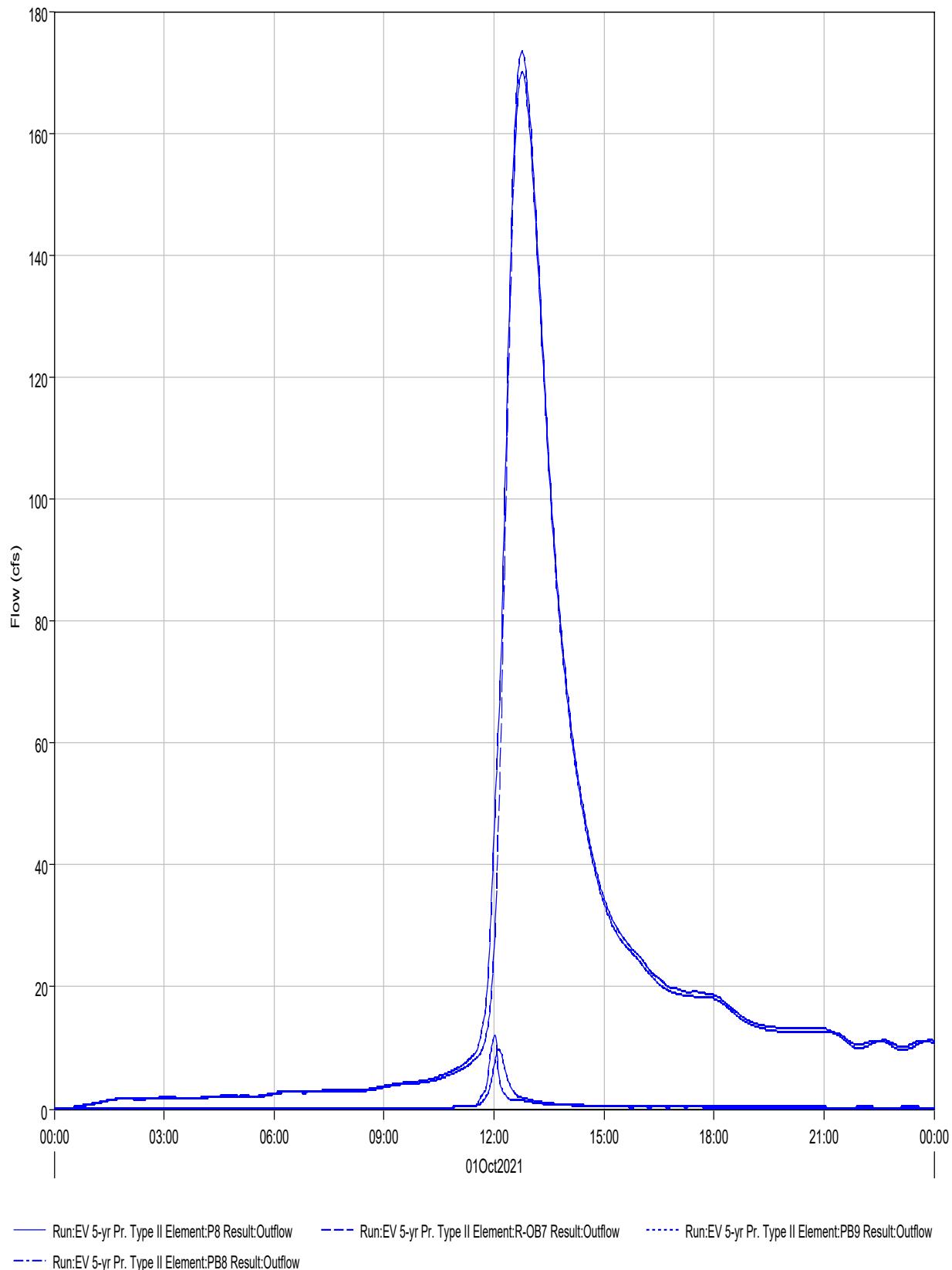
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reservoir: P7
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	175.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:46
Peak Outflow :	131.7 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:18
Total Inflow :	40.1 (AC-FT)	Peak Storage :	11.7 (AC-FT)
Total Outflow :	33.2 (AC-FT)	Peak Elevation :	7217.7 (FT)

Junction "P8" Results for Run "EV 5-yr Pr. Type II"

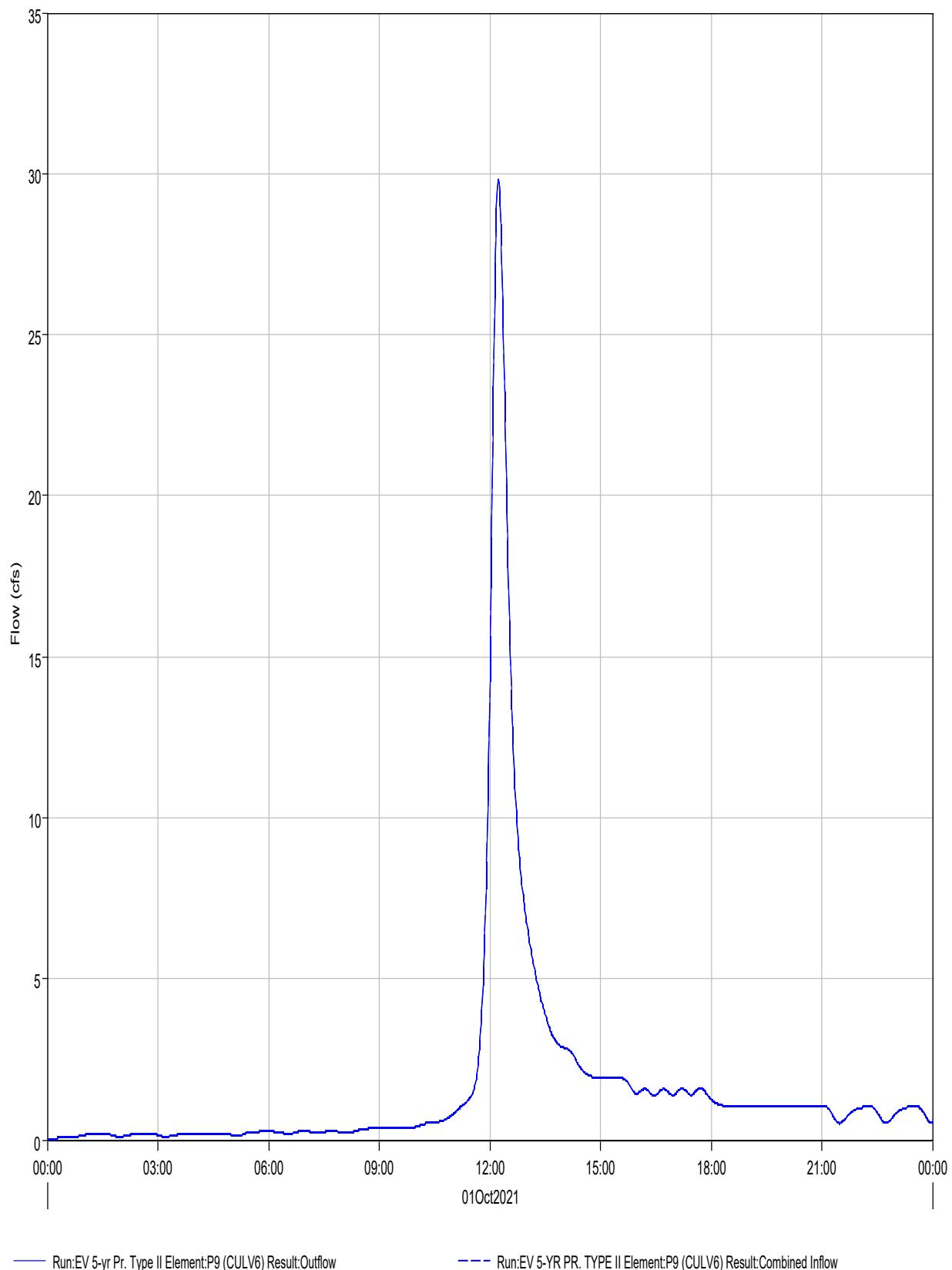


Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Junction: P8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Outflow : 173.4 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:46
Total Outflow : 0.67 (IN)

Reach "P9 (CULV6)" Results for Run "EV 5-yr Pr. Type II"



— Run:EV 5-yr Pr. Type II Element:P9 (CULV6) Result:Outflow

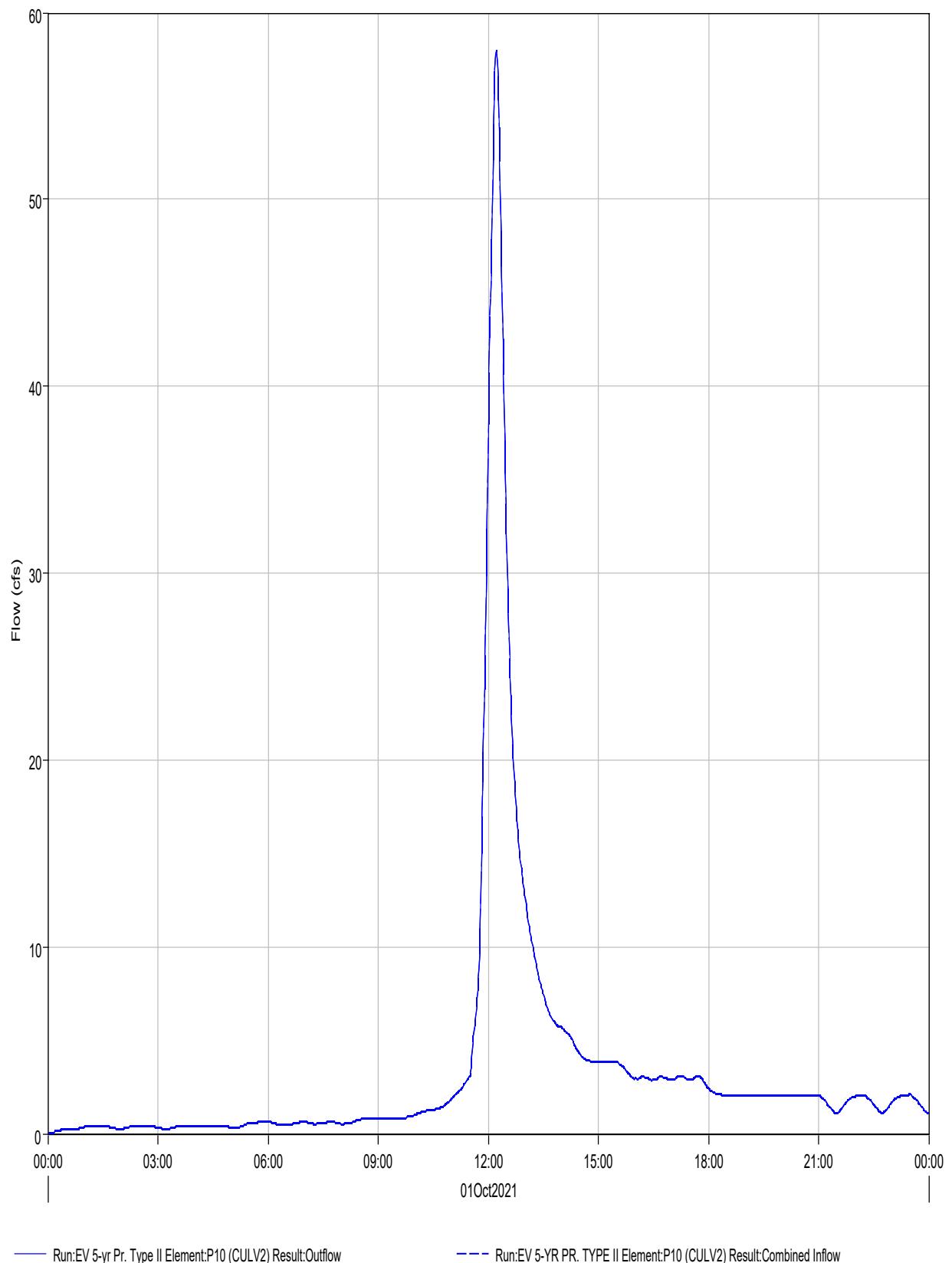
- - Run:EV 5-YR PR. TYPE II Element:P9 (CULV6) Result:Combined Inflow

Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: P9 (CULV6)
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Inflow :	29.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:14
Peak Outflow :	29.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:14
Total Inflow :	0.80 (IN)	Total Outflow :	0.80 (IN)

Reach "P10 (CULV2)" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: P10 (CULV2)

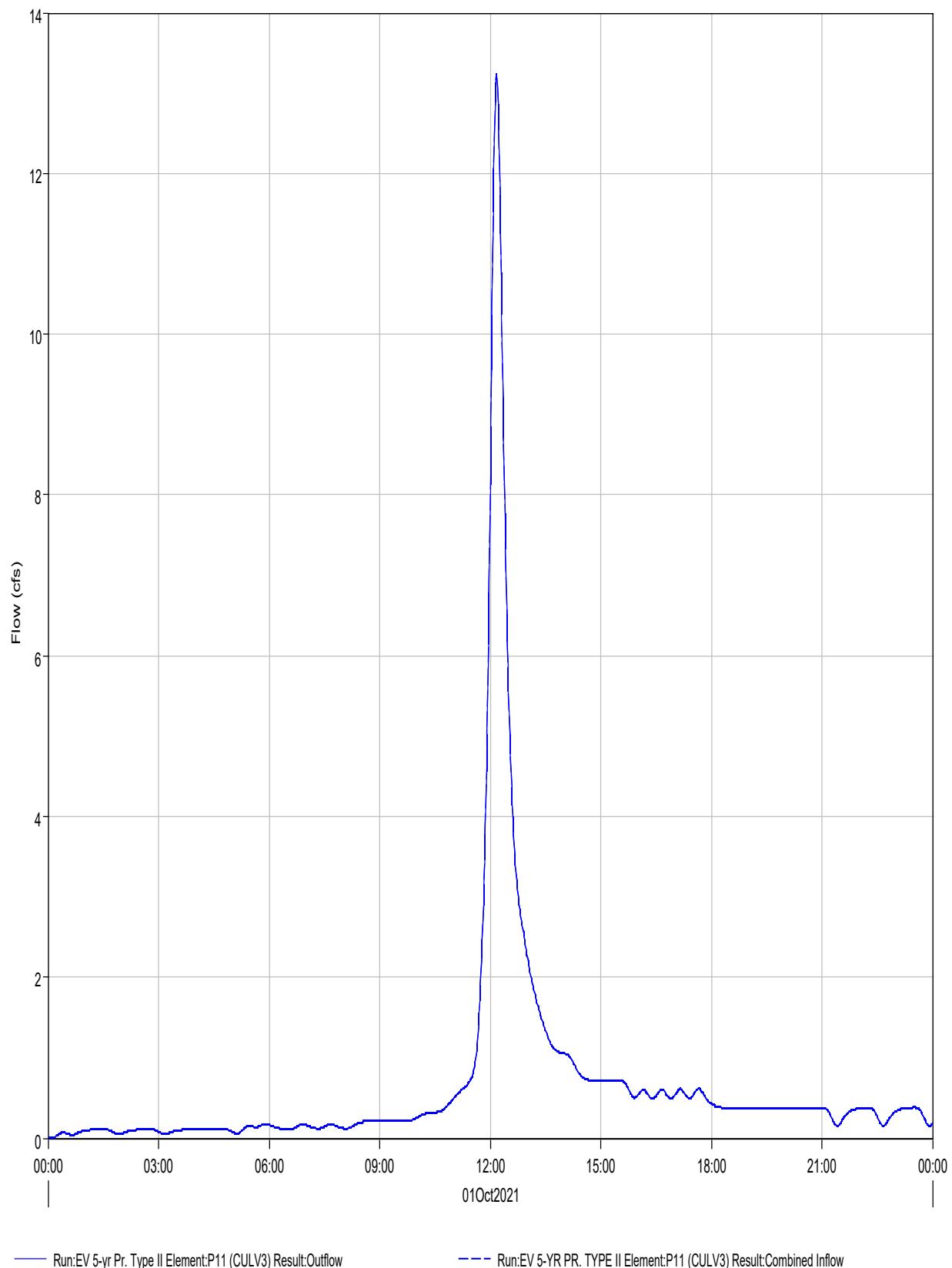
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	58.0 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	57.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	6.7 (AC-FT)	Total Outflow :	6.7 (AC-FT)

Reach "P11 (CULV3)" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: P11 (CULV3)

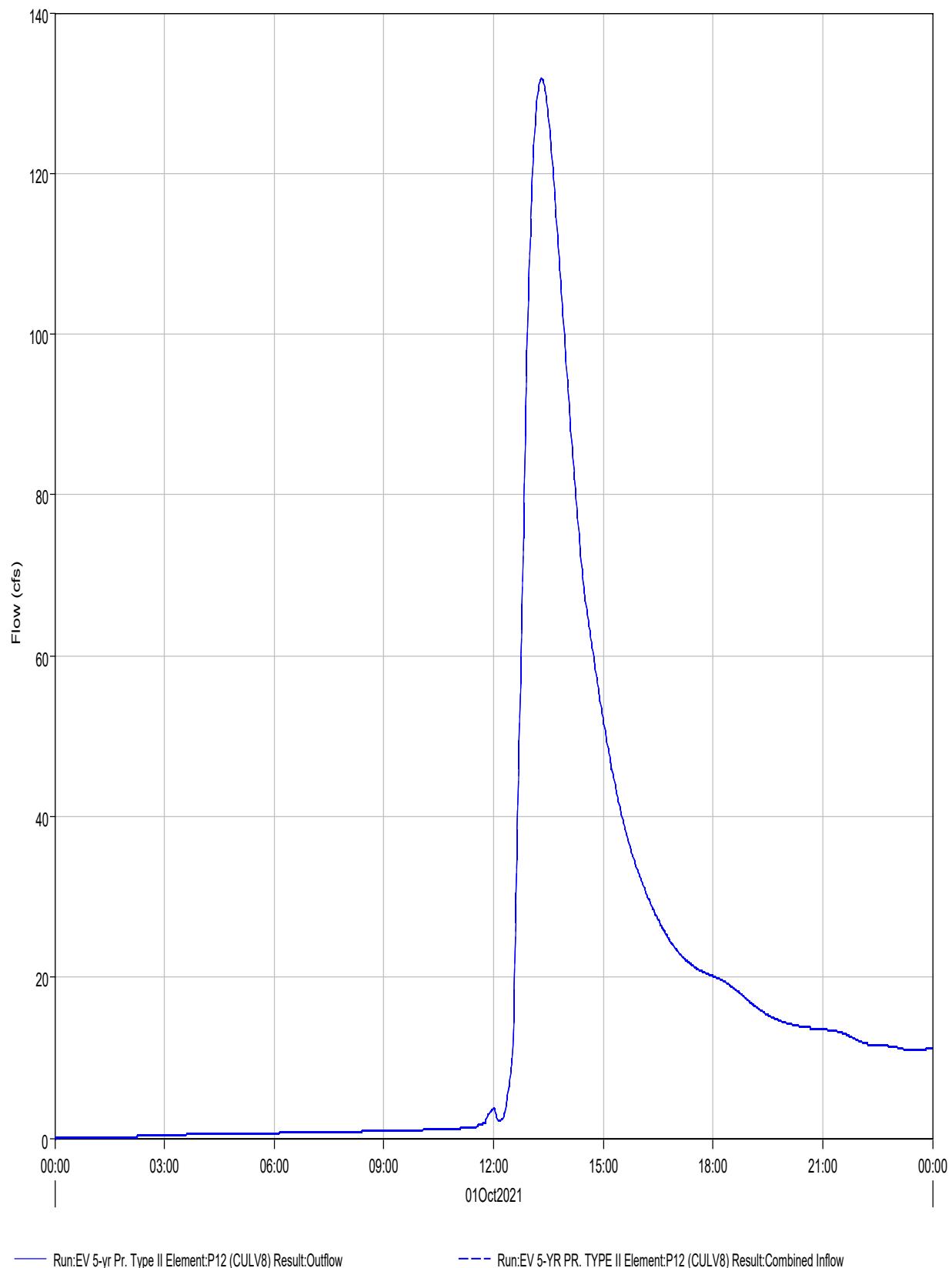
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	13.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:10
Peak Outflow :	13.2 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:10
Total Inflow :	1.3 (AC-FT)	Total Outflow :	1.3 (AC-FT)

Reach "P12 (CULV8)" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: P12 (CULV8)

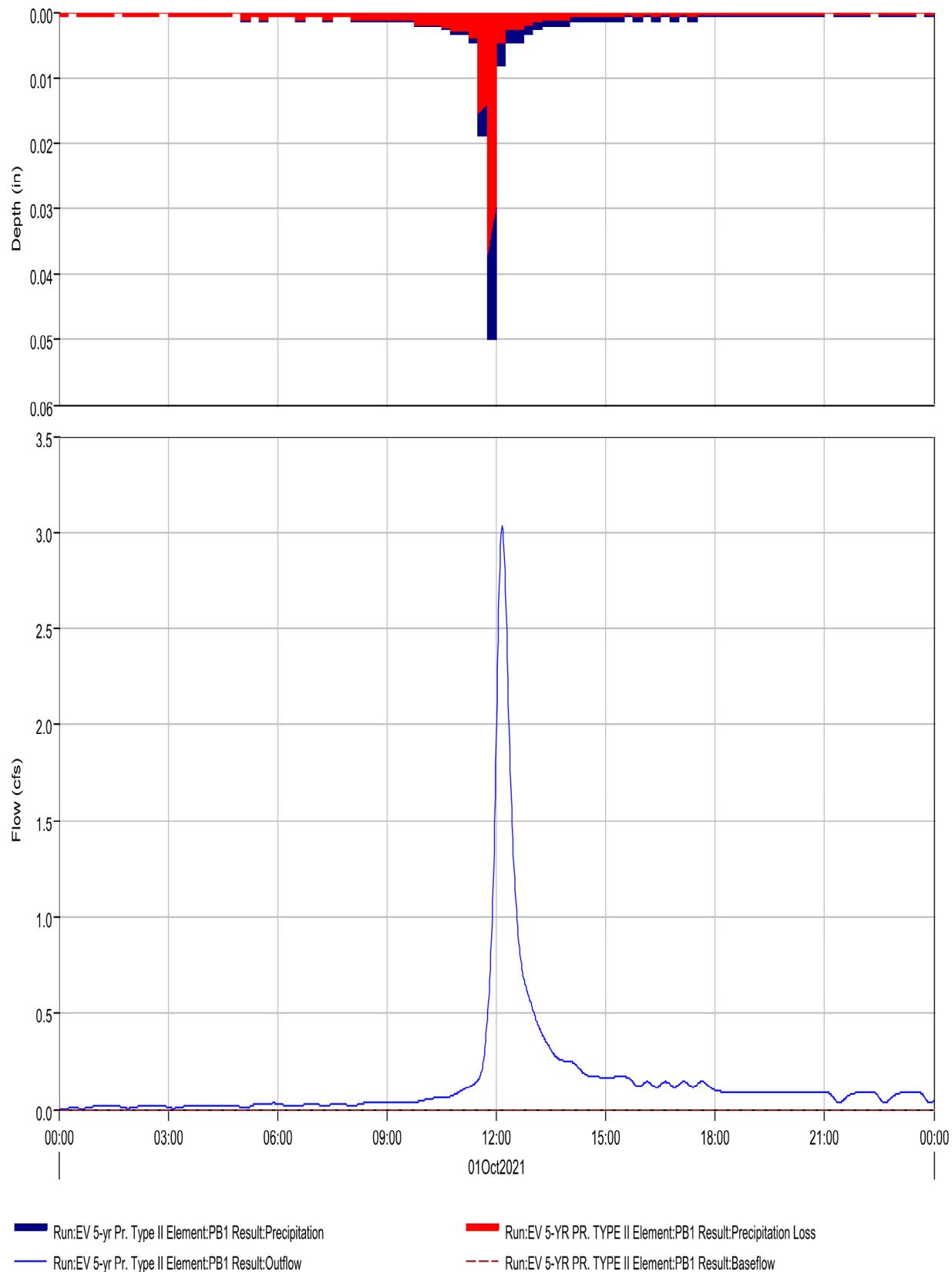
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Inflow :	131.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 13:19
Peak Outflow :	131.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:19
Total Inflow :	0.55 (IN)	Total Outflow :	0.55 (IN)

Subbasin "PB1" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB1

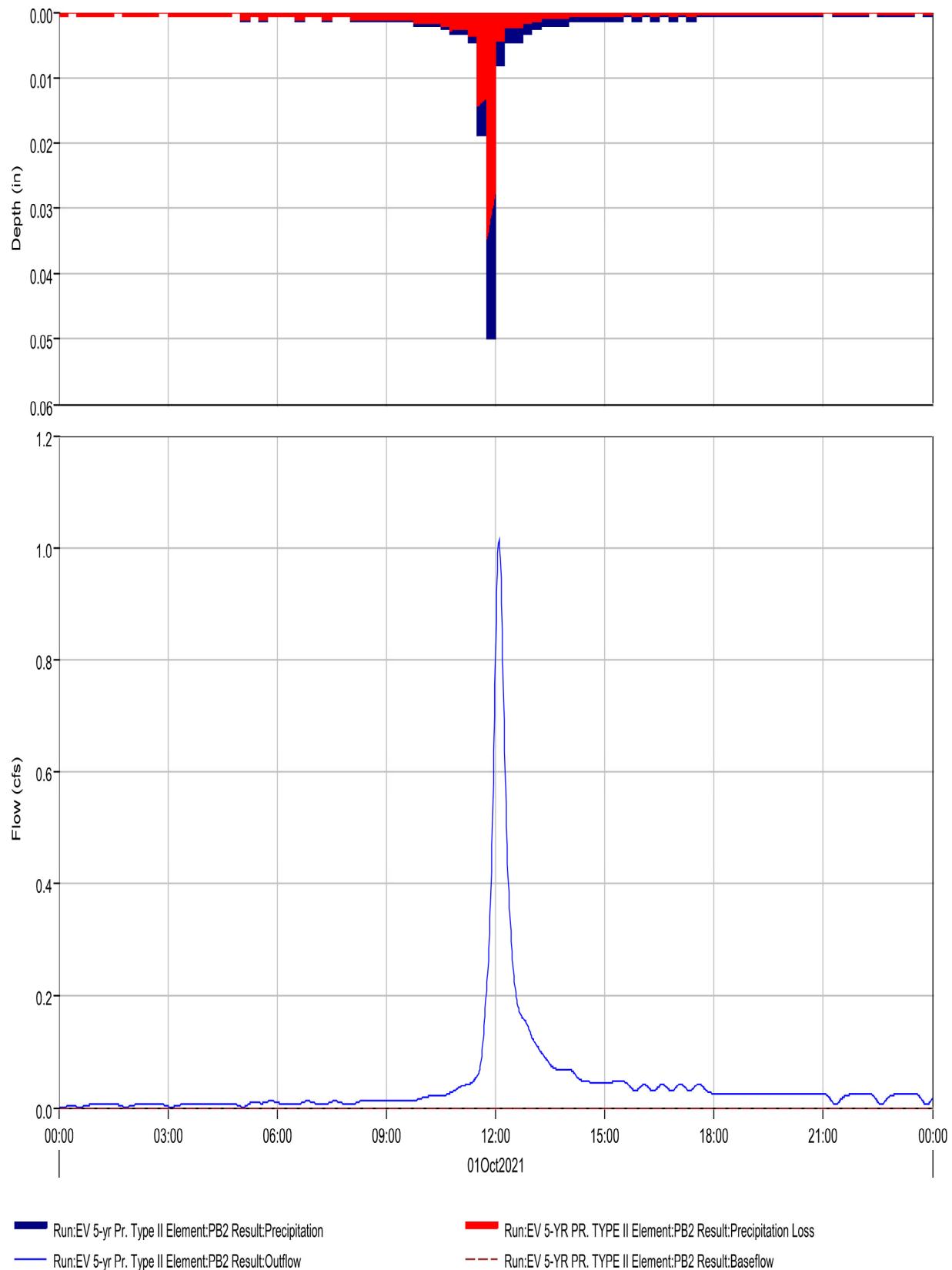
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	3.0 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	1.0 (AC-FT)	Total Direct Runoff :	0.3 (AC-FT)
Total Loss :	0.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.3 (AC-FT)	Discharge :	0.3 (AC-FT)

Subbasin "PB2" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB2

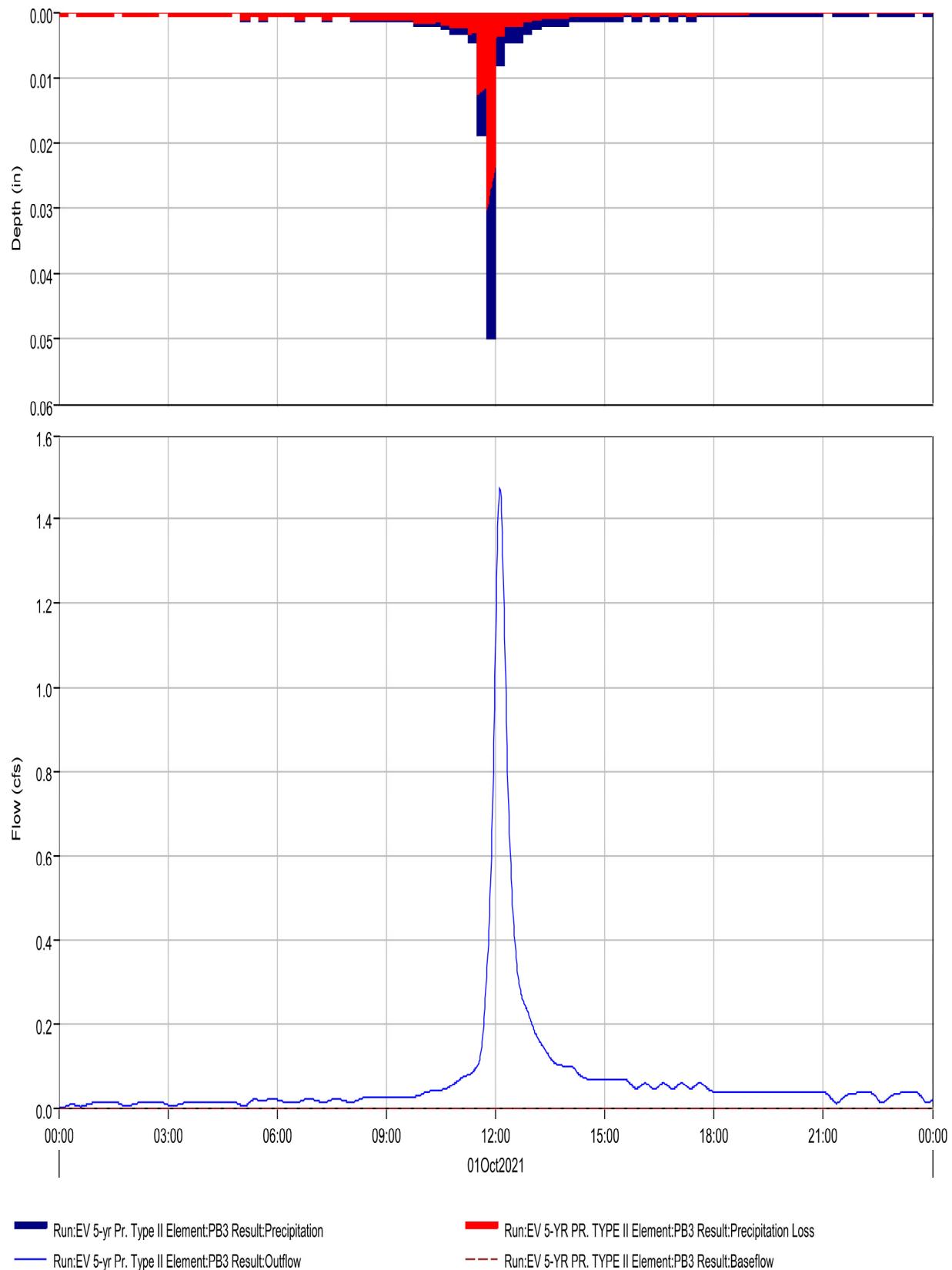
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	1.0 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:06
Total Precipitation :	0.2 (AC-FT)	Total Direct Runoff :	0.1 (AC-FT)
Total Loss :	0.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.1 (AC-FT)	Discharge :	0.1 (AC-FT)

Subbasin "PB3" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB3

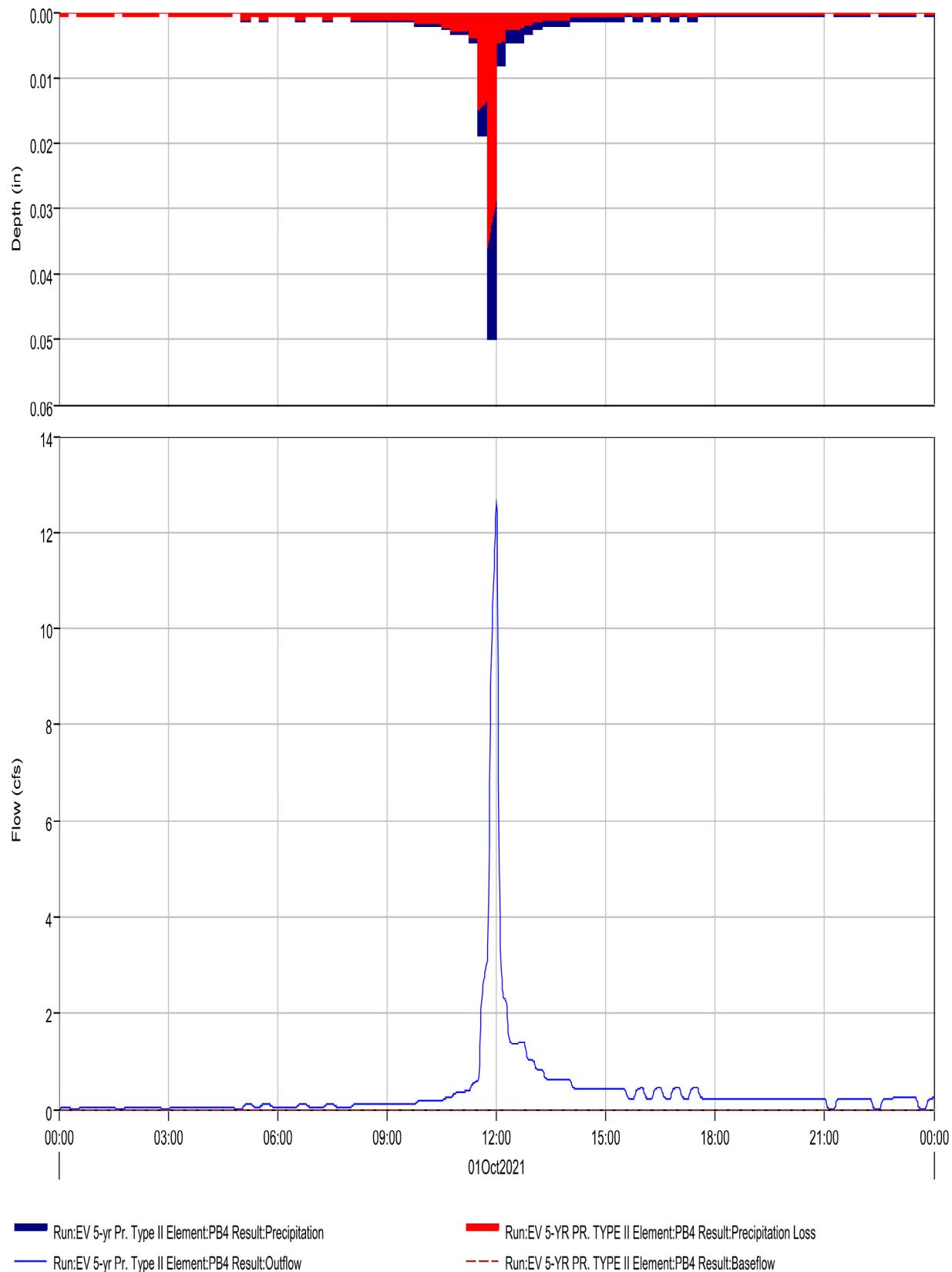
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	1.5 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:07
Total Precipitation :	0.3 (AC-FT)	Total Direct Runoff :	0.1 (AC-FT)
Total Loss :	0.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.1 (AC-FT)	Discharge :	0.1 (AC-FT)

Subbasin "PB4" Results for Run "EV 5-yr Pr. Type II"



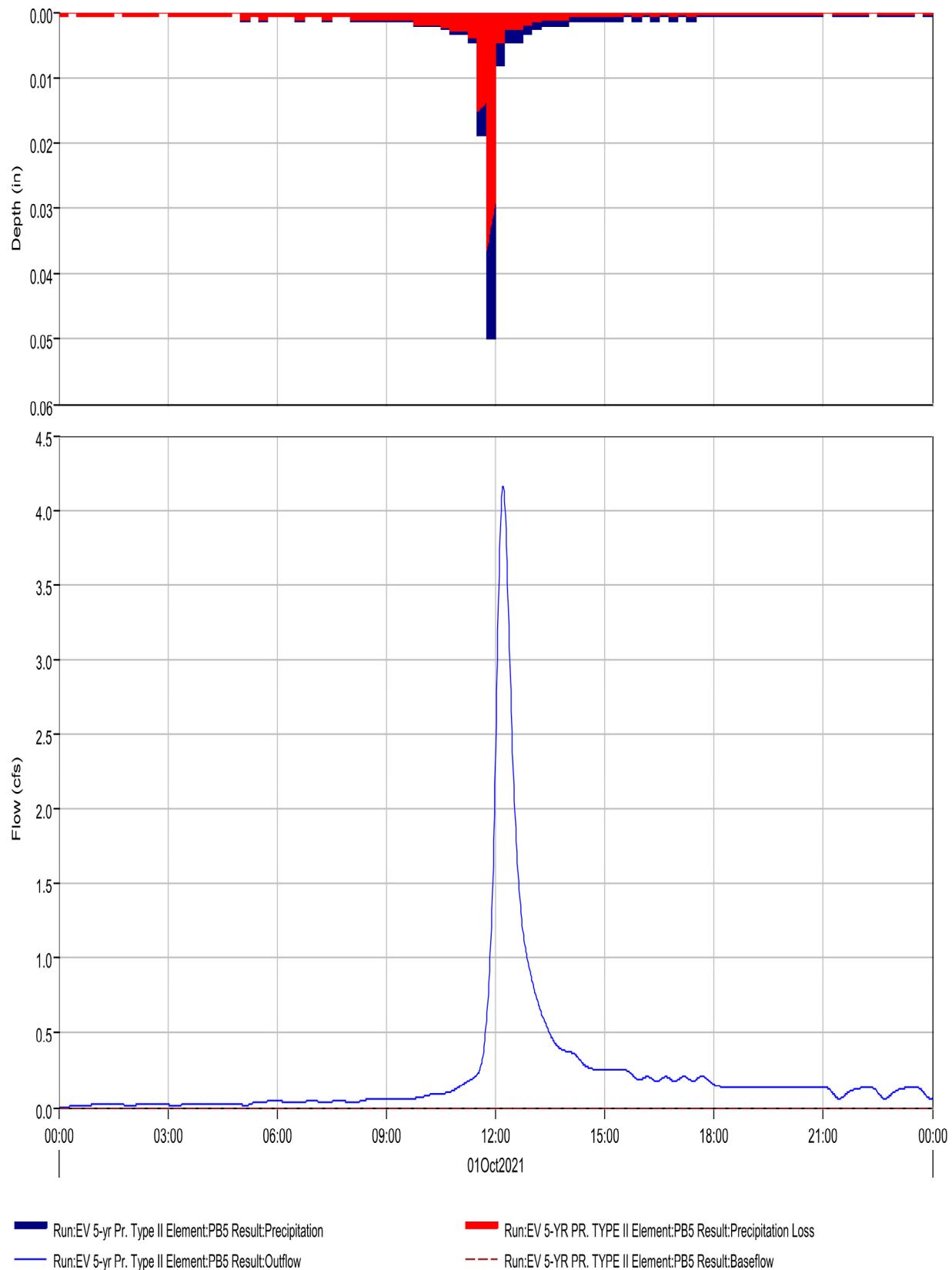
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	12.6 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	2.4 (AC-FT)	Total Direct Runoff :	0.8 (AC-FT)
Total Loss :	1.6 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.8 (AC-FT)	Discharge :	0.8 (AC-FT)

Subbasin "PB5" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB5

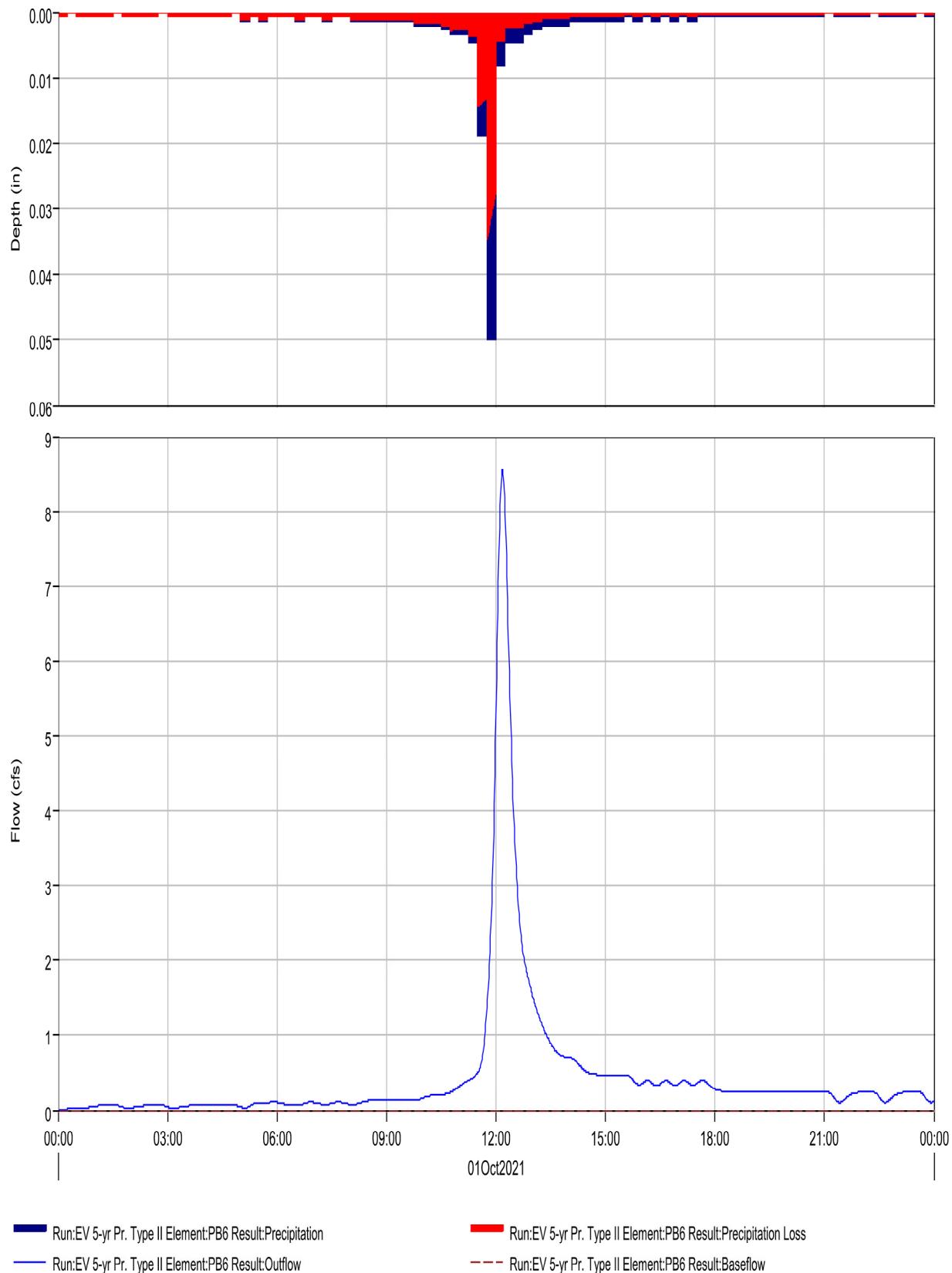
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	4.2 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:12
Total Precipitation :	1.4 (AC-FT)	Total Direct Runoff :	0.5 (AC-FT)
Total Loss :	0.9 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.5 (AC-FT)	Discharge :	0.5 (AC-FT)

Subbasin "PB6" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB6

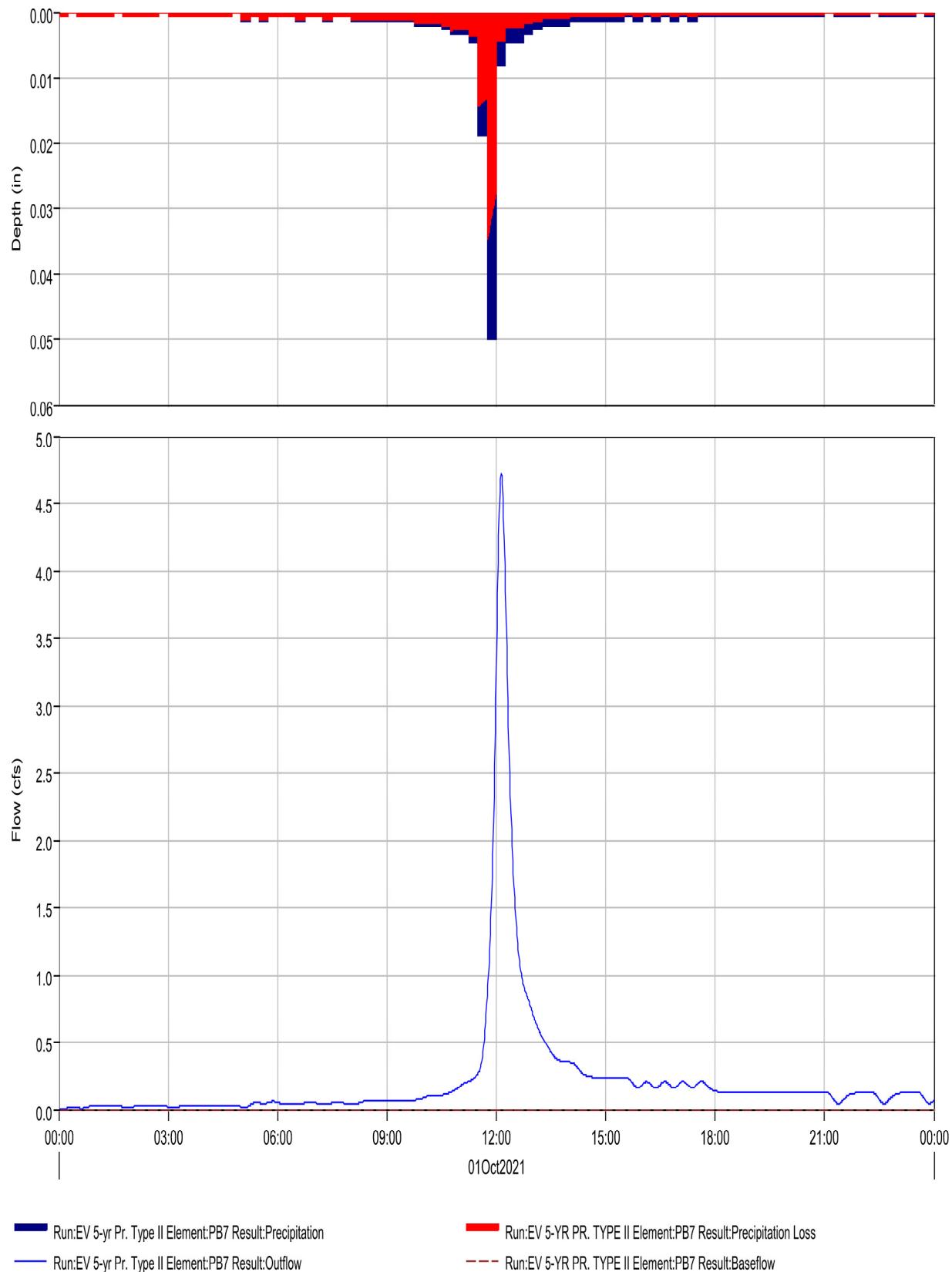
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	8.6 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:11
Total Precipitation :	2.5 (AC-FT)	Total Direct Runoff :	0.9 (AC-FT)
Total Loss :	1.6 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.9 (AC-FT)	Discharge :	0.9 (AC-FT)

Subbasin "PB7" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB7

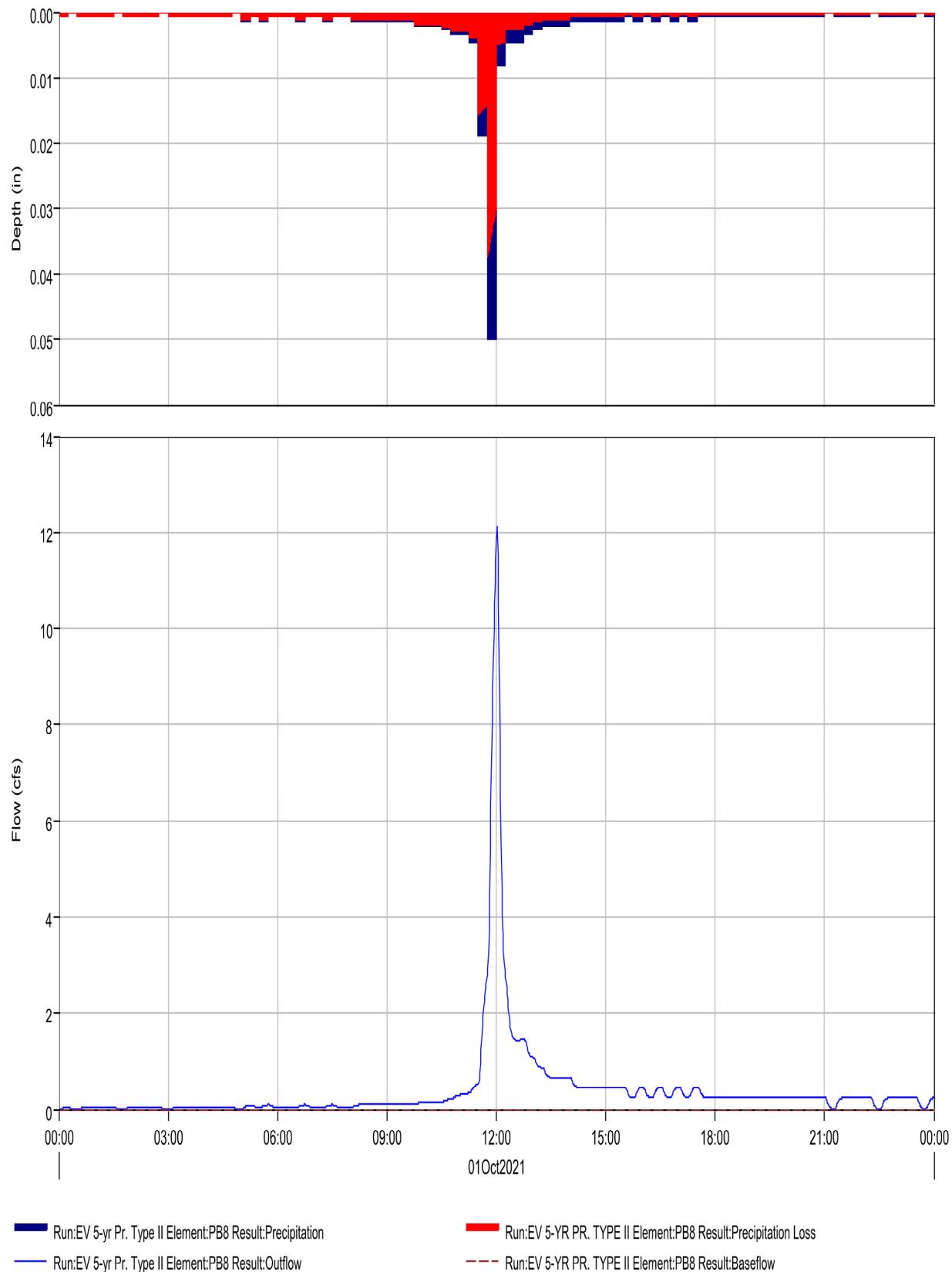
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	4.7 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	1.3 (AC-FT)	Total Direct Runoff :	0.4 (AC-FT)
Total Loss :	0.8 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.4 (AC-FT)	Discharge :	0.4 (AC-FT)

Subbasin "PB8" Results for Run "EV 5-yr Pr. Type II"



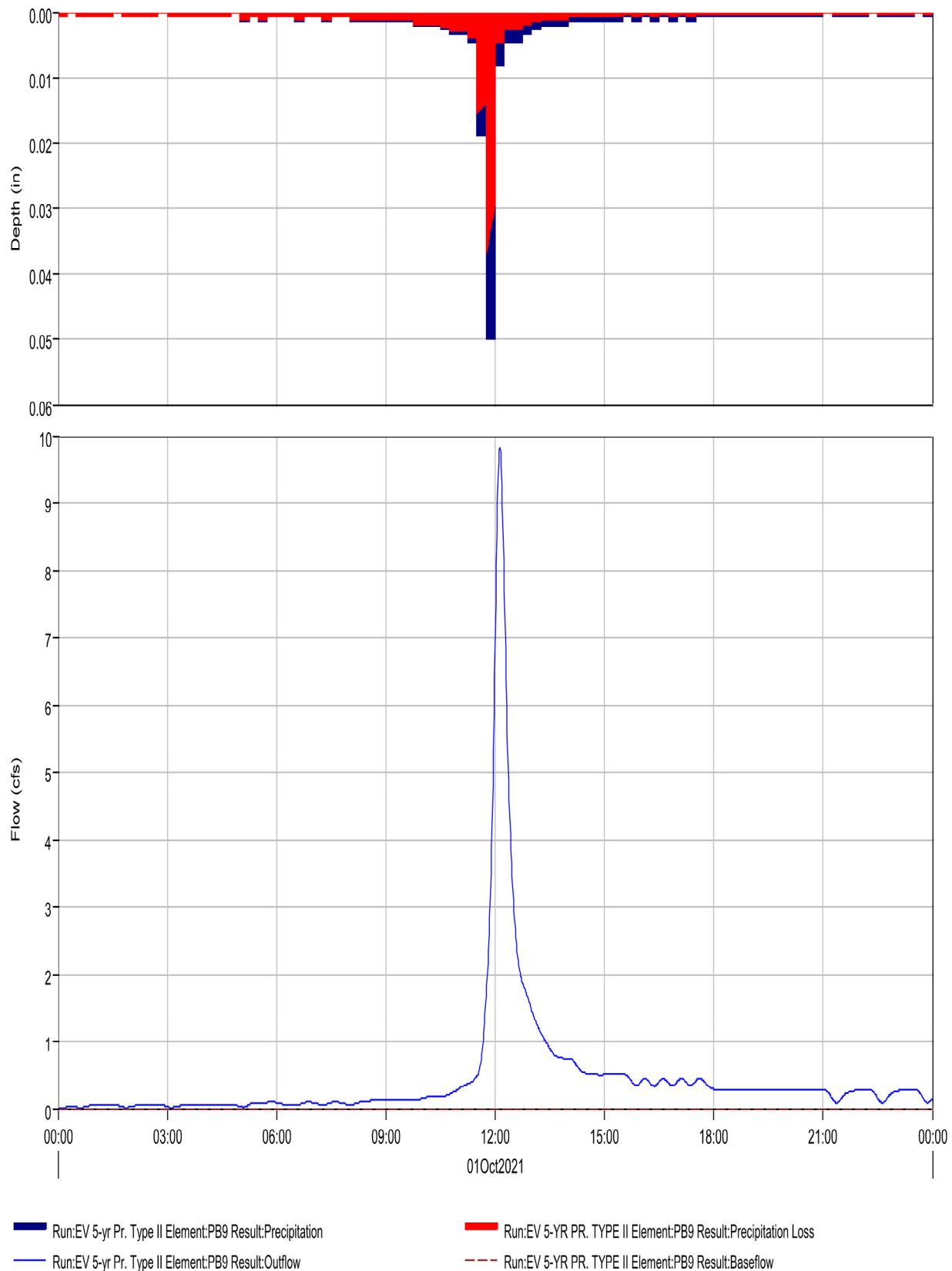
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Discharge :	12.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:01
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.82 (IN)
Total Loss :	1.88 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.82 (IN)	Discharge :	0.82 (IN)

Subbasin "PB9" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB9

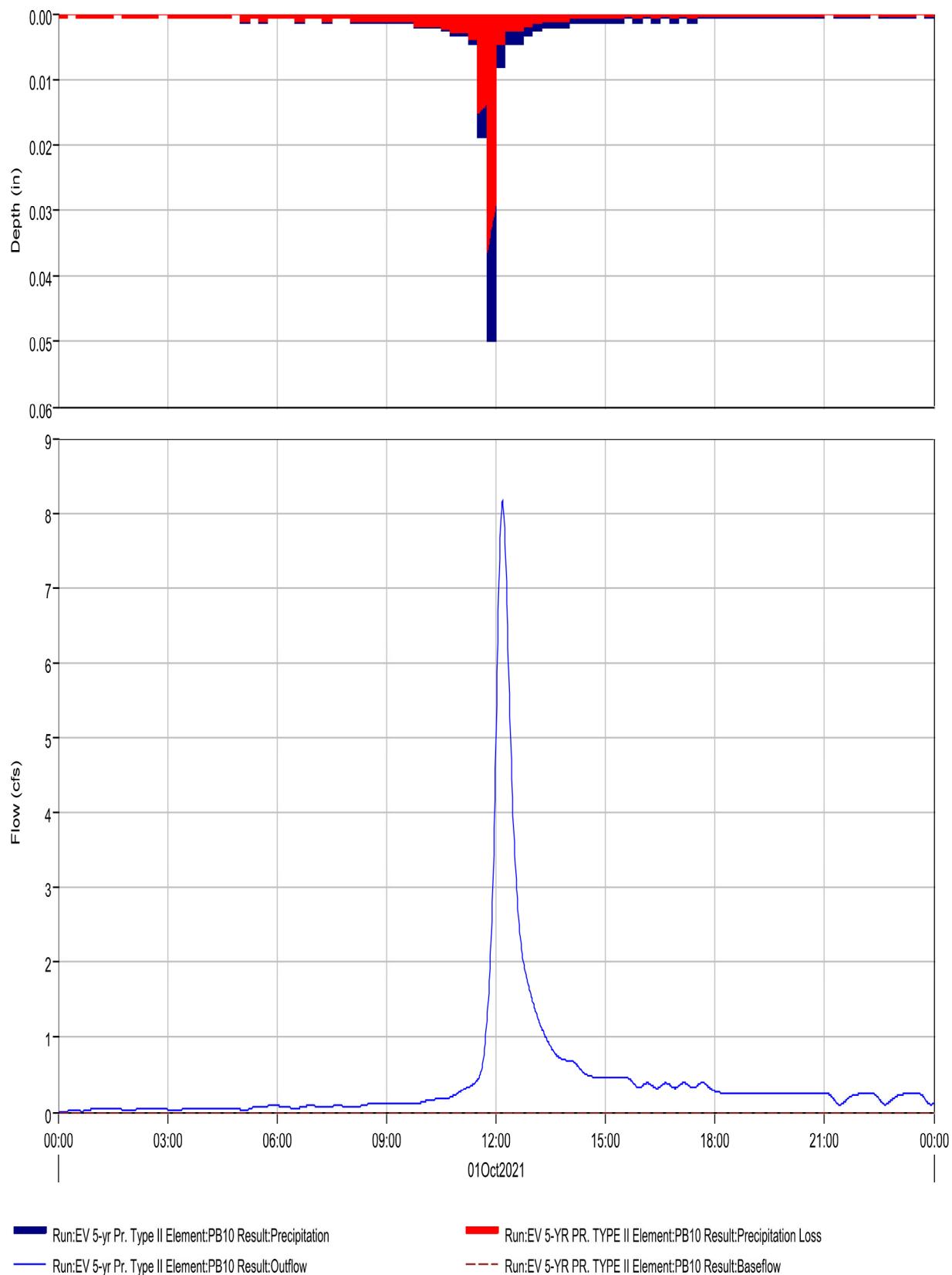
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Discharge :	9.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.85 (IN)
Total Loss :	1.85 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.85 (IN)	Discharge :	0.85 (IN)

Subbasin "PB10" Results for Run "EV 5-yr Pr. Type II"

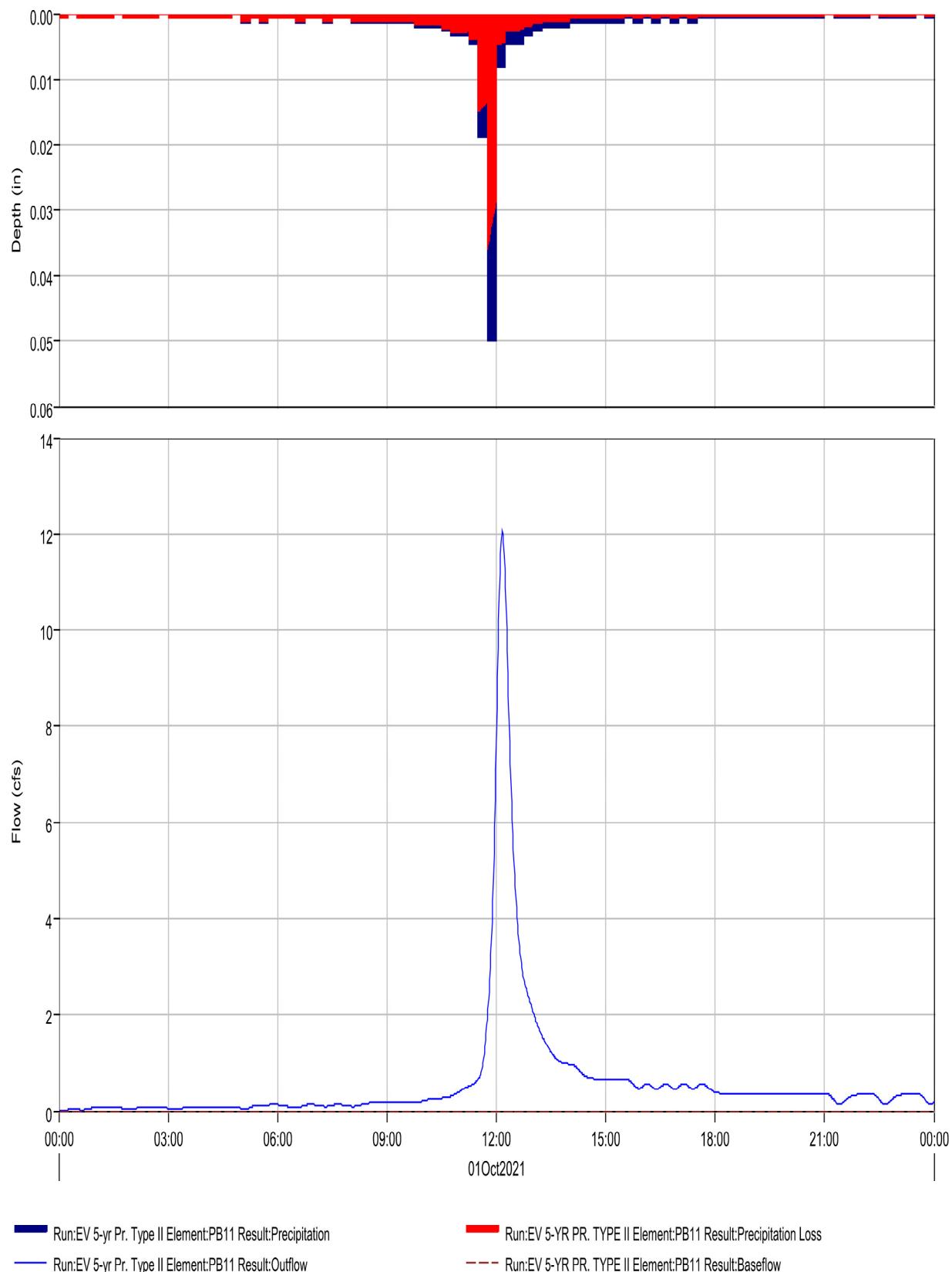


Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB10
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Discharge :	8.2 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:11
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.87 (IN)
Total Loss :	1.82 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.88 (IN)	Discharge :	0.87 (IN)

Subbasin "PB11" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB11

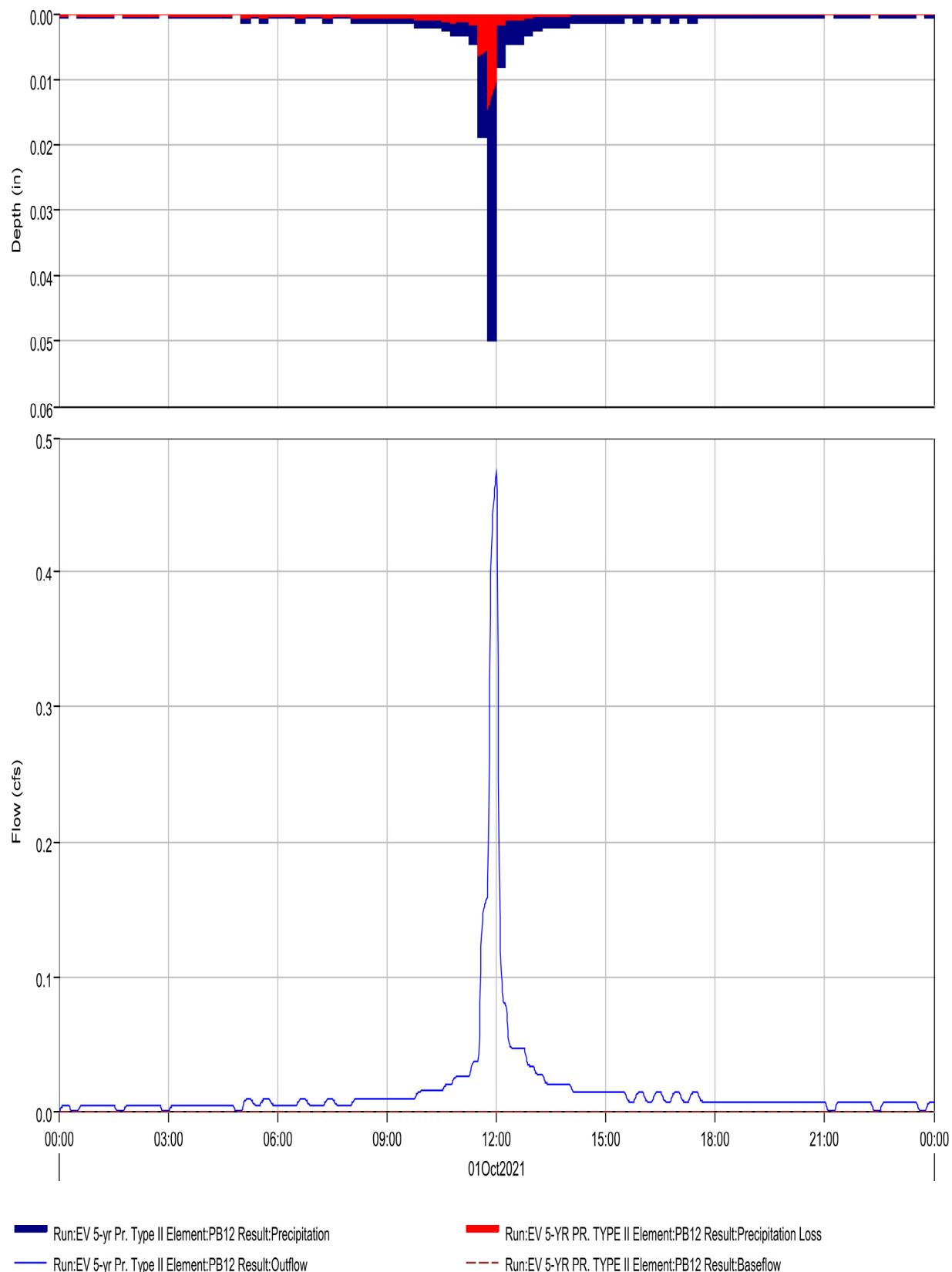
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Discharge :	12.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.90 (IN)
Total Loss :	1.79 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.91 (IN)	Discharge :	0.90 (IN)

Subbasin "PB12" Results for Run "EV 5-yr Pr. Type II"

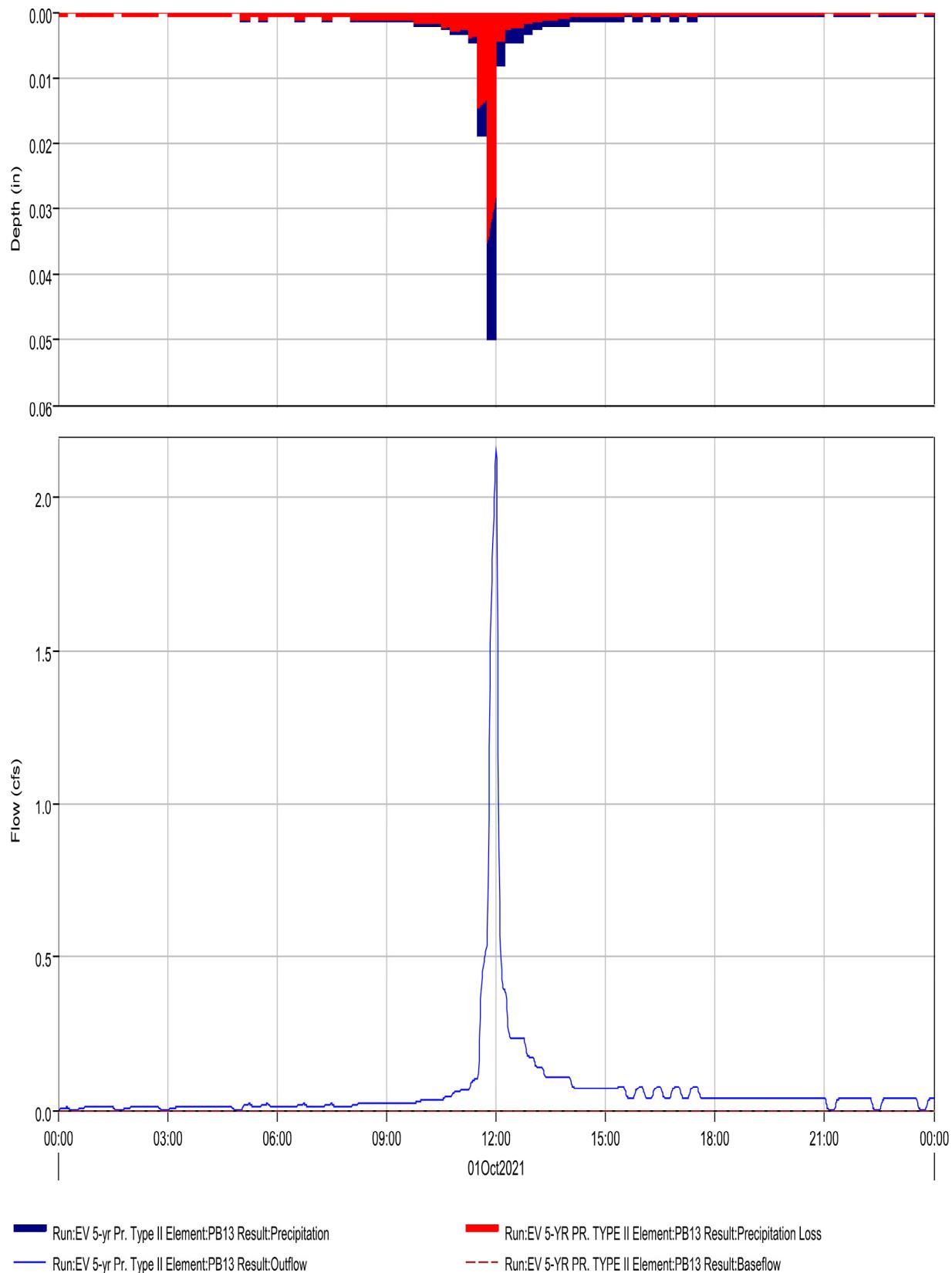


Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB12
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Discharge :	0.5 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	1.95 (IN)
Total Loss :	0.74 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	1.96 (IN)	Discharge :	1.95 (IN)

Subbasin "PB13" Results for Run "EV 5-yr Pr. Type II"

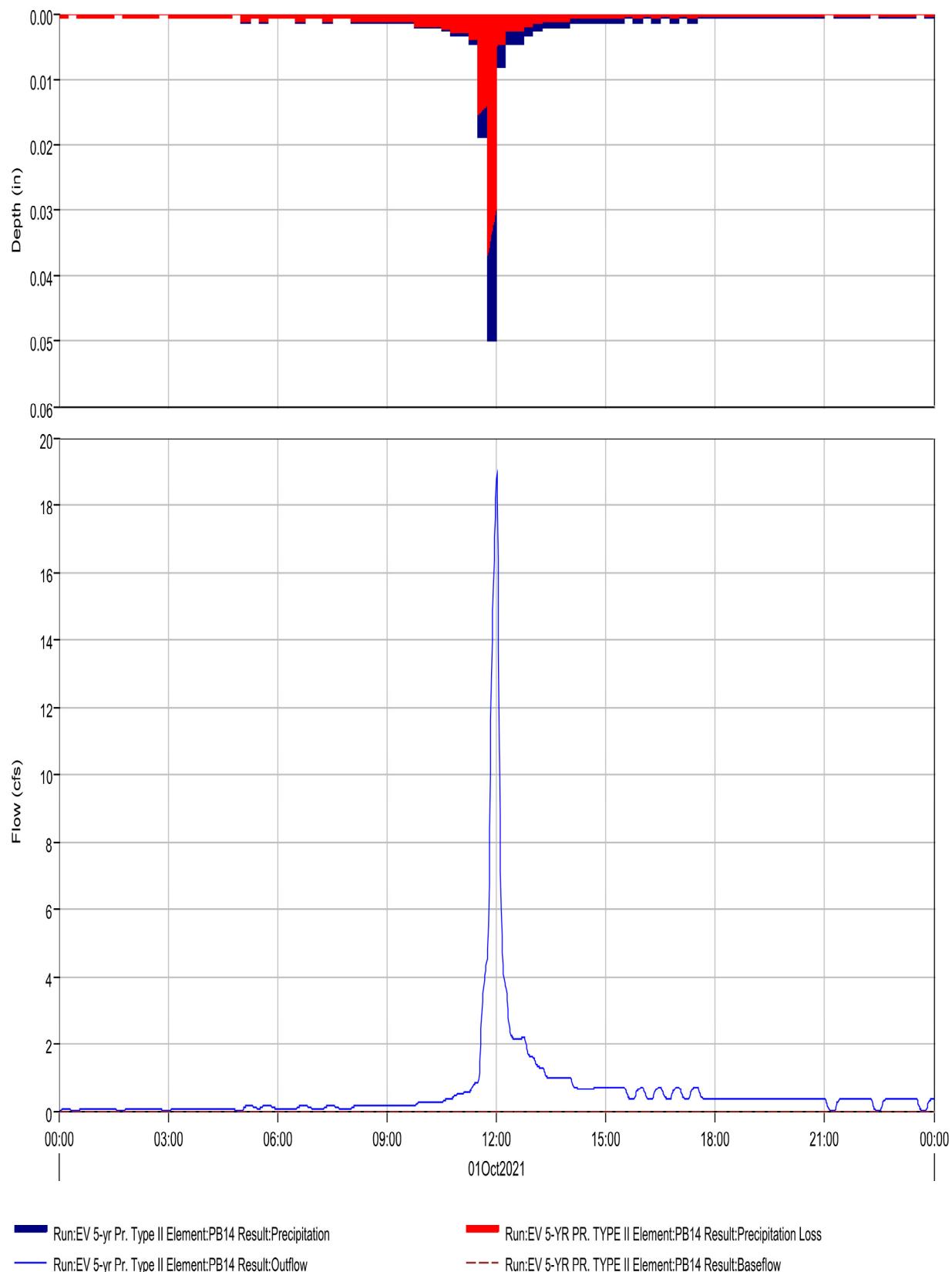


Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB13
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Discharge :	2.2 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	2.70 (IN)	Total Direct Runoff :	0.93 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.00 (IN)
Total Excess :	0.93 (IN)	Discharge :	0.93 (IN)

Subbasin "PB14" Results for Run "EV 5-yr Pr. Type II"



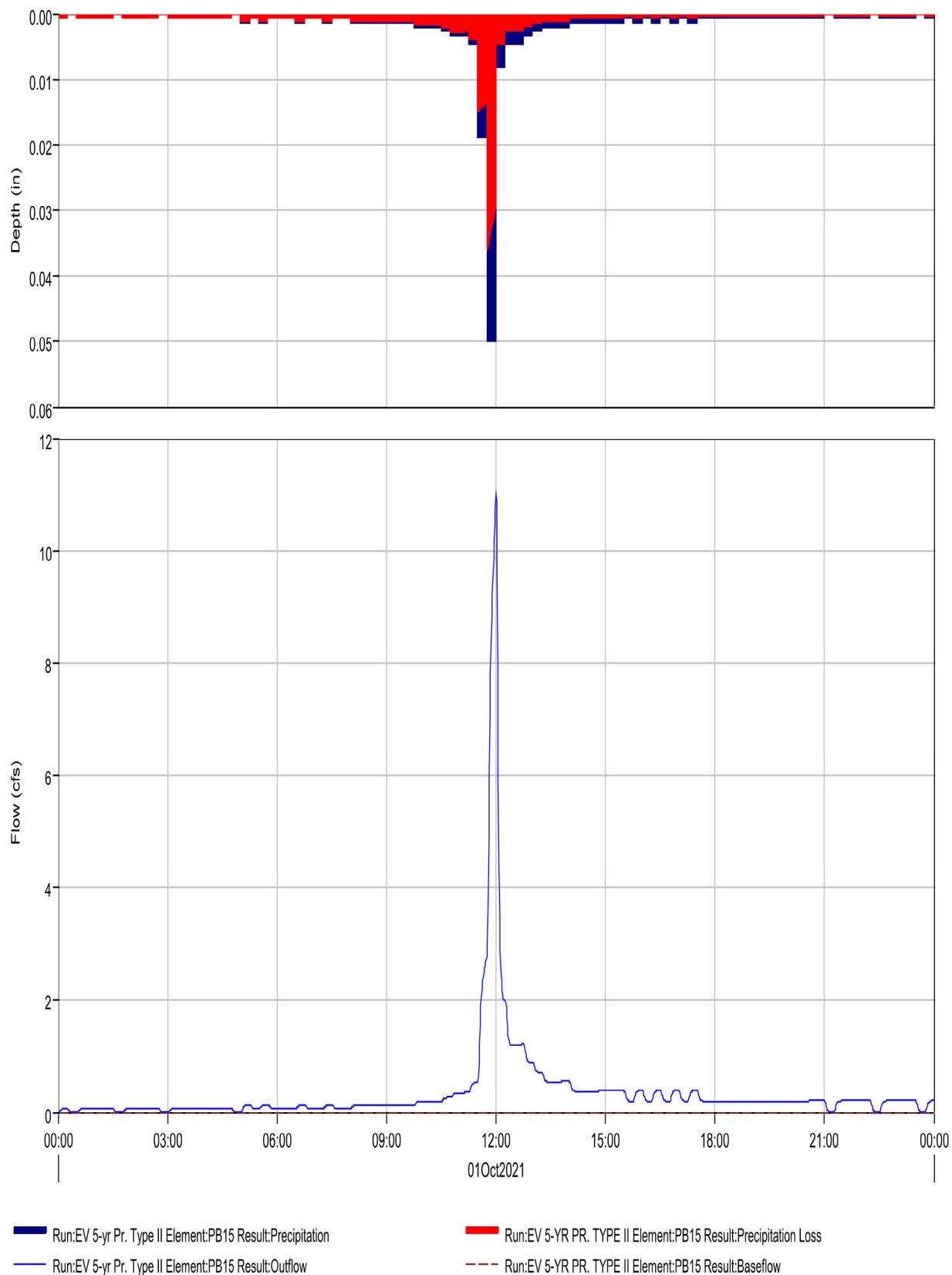
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB14
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	18.9 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:01
Total Precipitation :	3.9 (AC-FT)	Total Direct Runoff :	1.2 (AC-FT)
Total Loss :	2.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.2 (AC-FT)	Discharge :	1.2 (AC-FT)

Subbasin "PB15" Results for Run "EV 5-yr Pr. Type II"



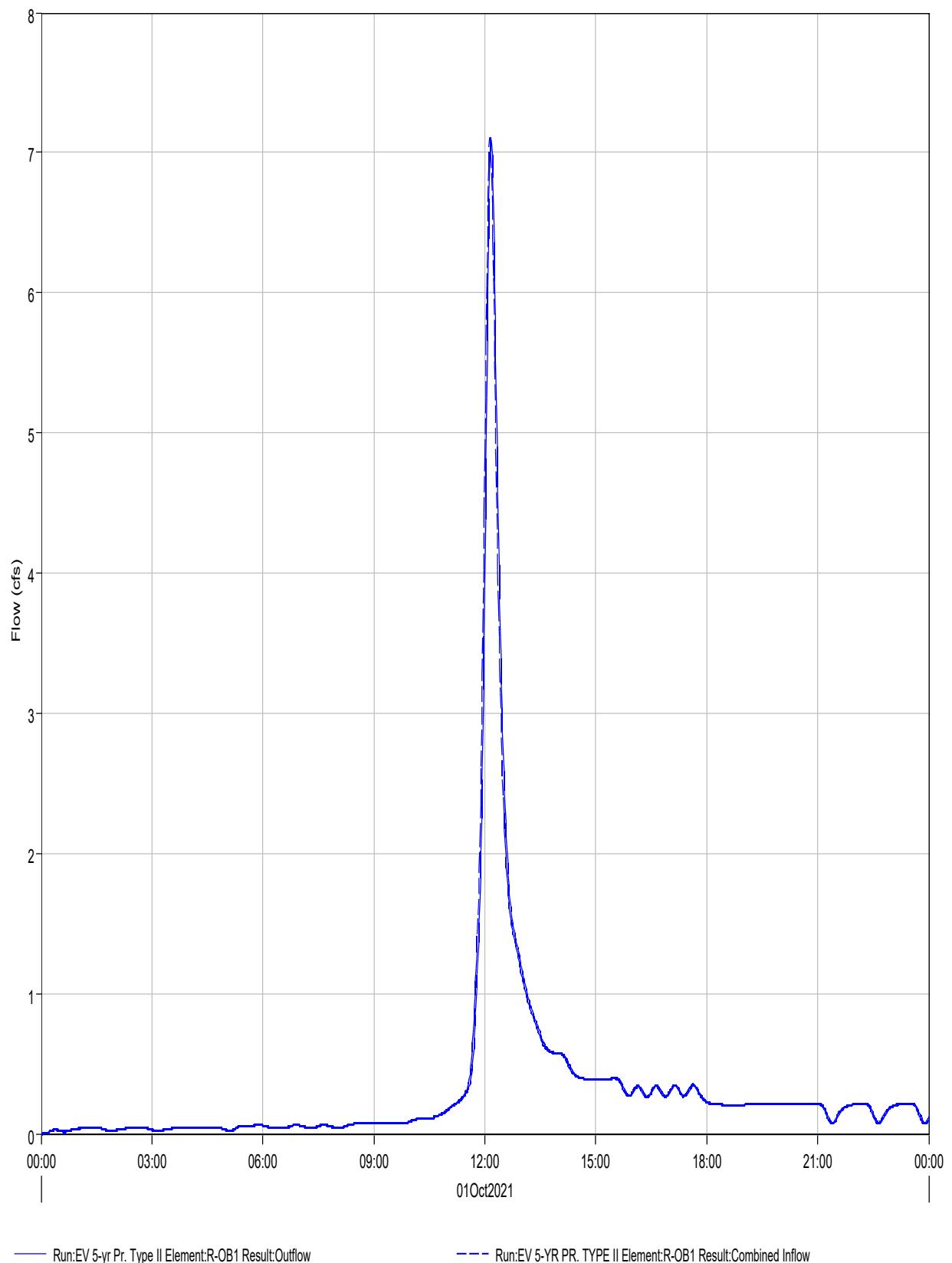
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Subbasin: PB15
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	11.0 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	2.2 (AC-FT)	Total Direct Runoff :	0.7 (AC-FT)
Total Loss :	1.5 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.7 (AC-FT)	Discharge :	0.7 (AC-FT)

Reach "R-OB1" Results for Run "EV 5-yr Pr. Type II"



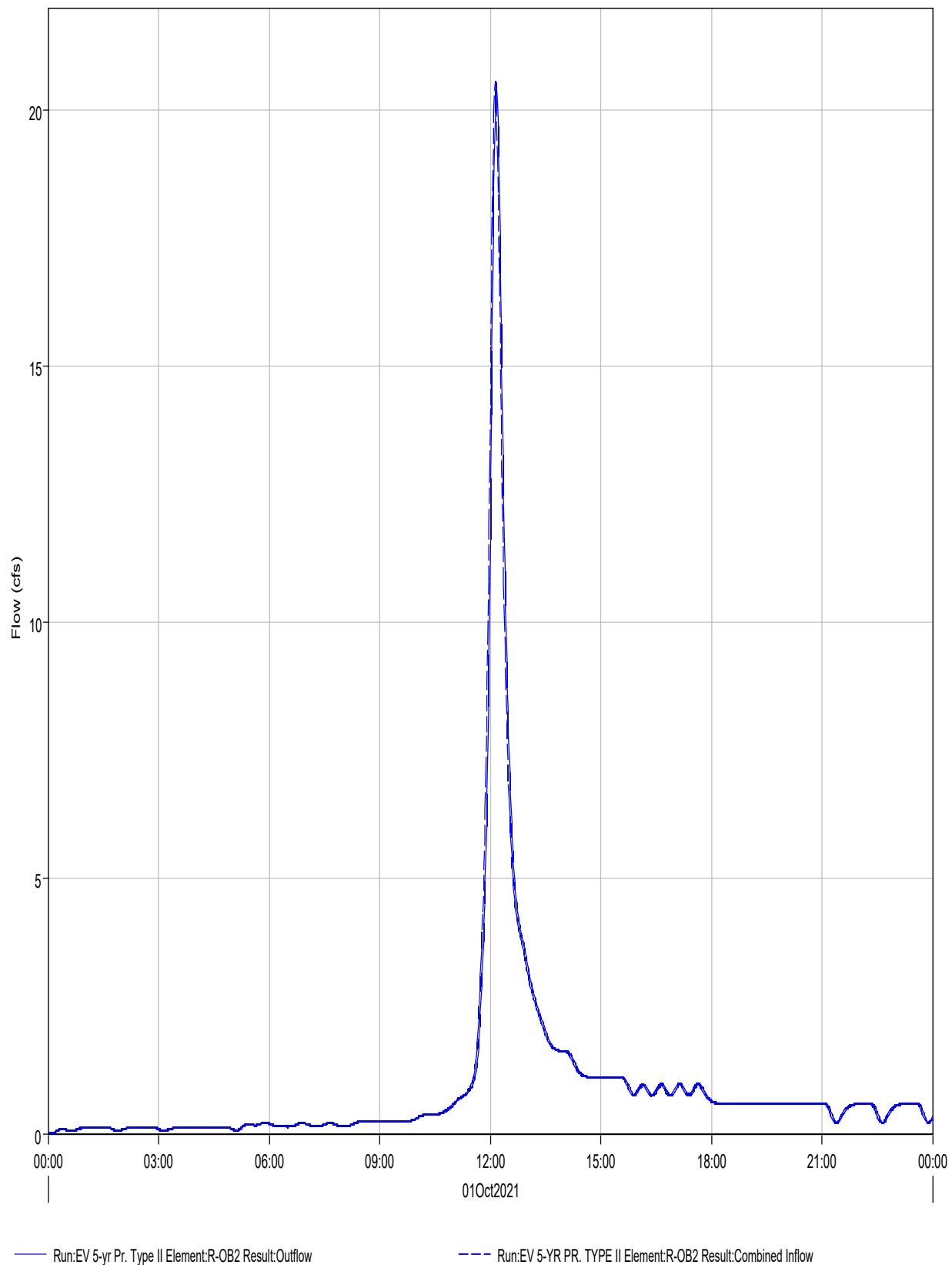
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-OB1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	7.1 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	7.1 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:10
Total Inflow :	0.7 (AC-FT)	Total Outflow :	0.7 (AC-FT)

Reach "R-OB2" Results for Run "EV 5-yr Pr. Type II"



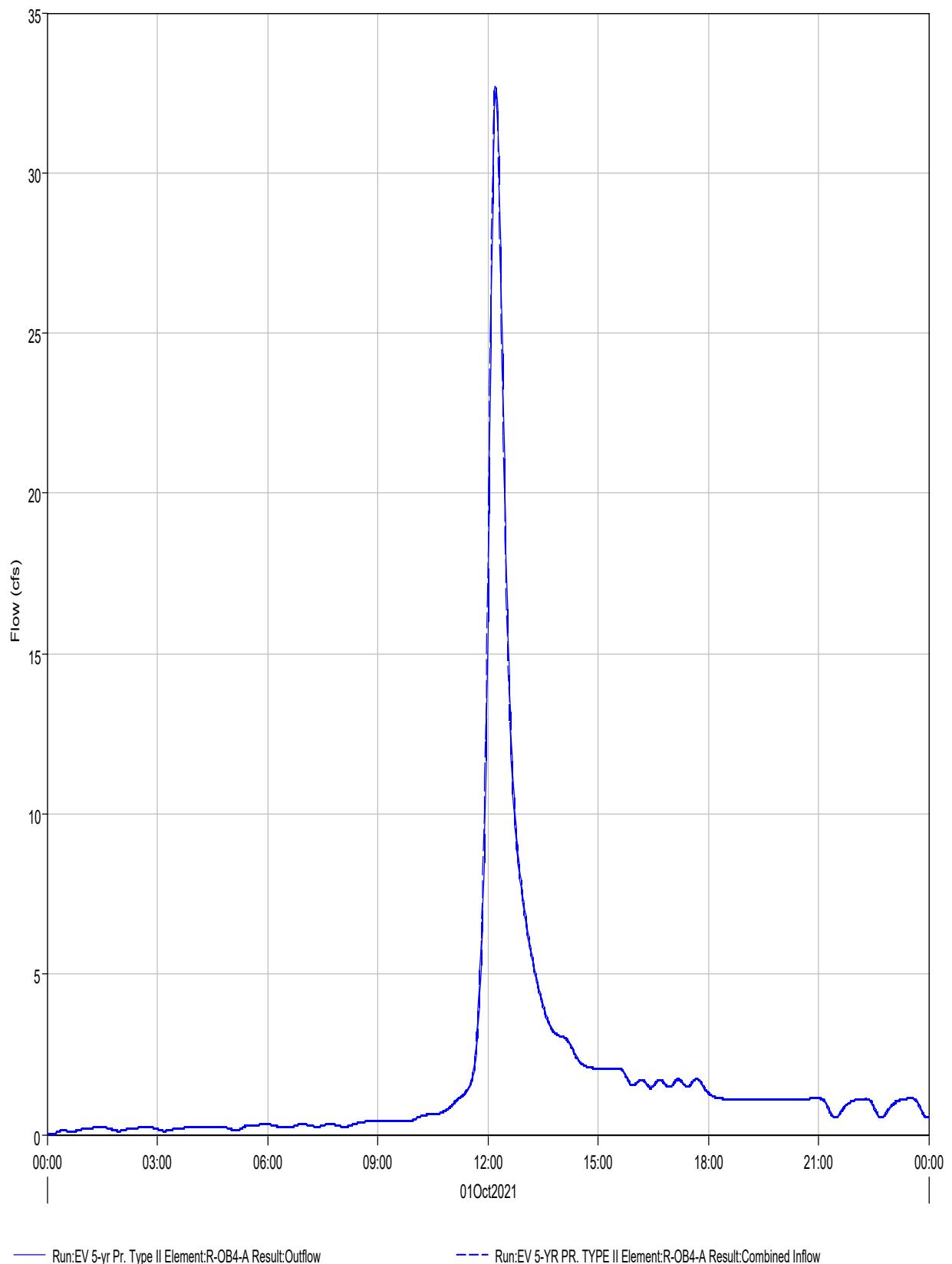
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-OB2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	20.6 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	20.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:10
Total Inflow :	1.9 (AC-FT)	Total Outflow :	1.9 (AC-FT)

Reach "R-OB4-A" Results for Run "EV 5-yr Pr. Type II"



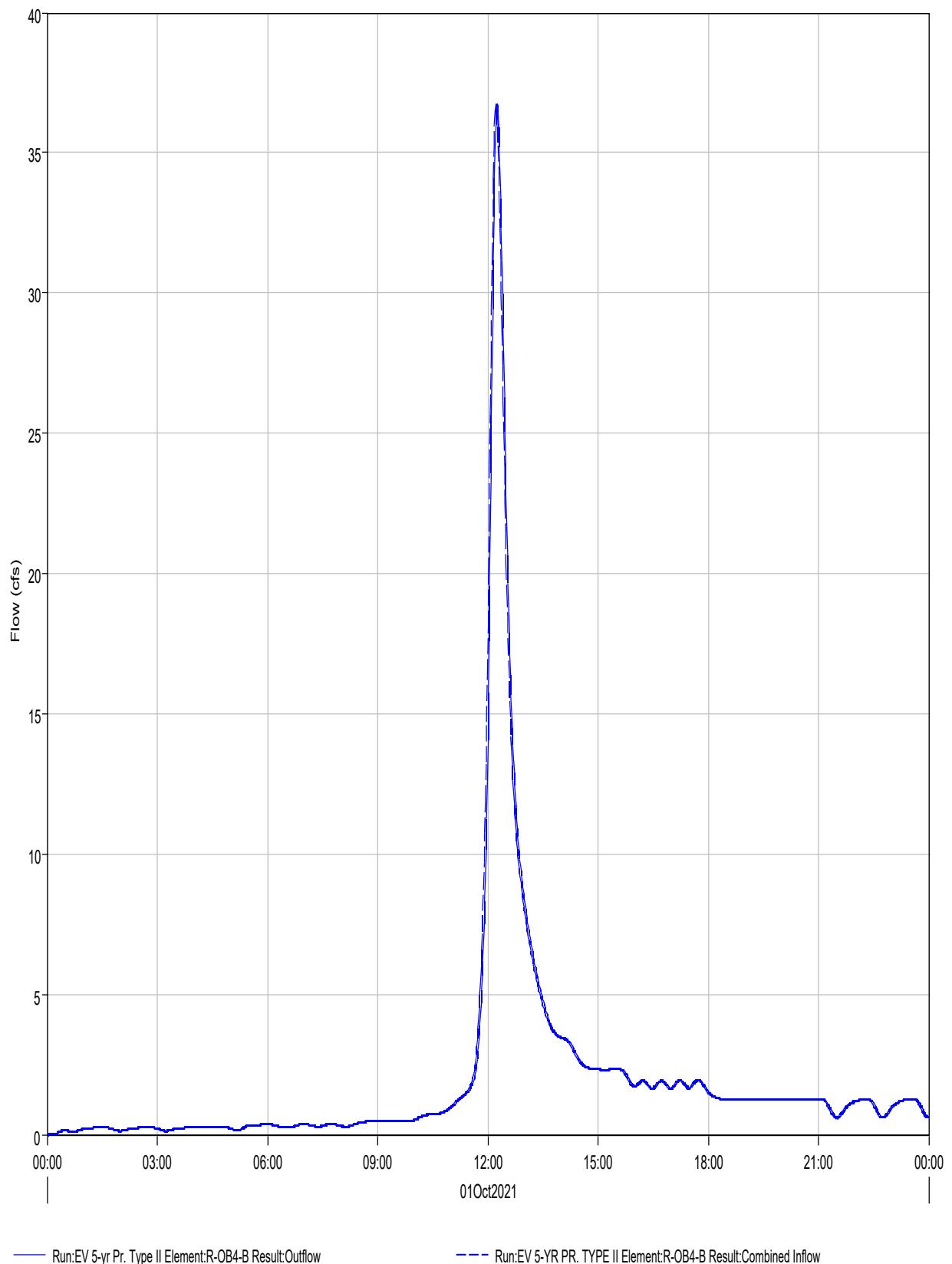
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-OB4-A
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	32.7 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:12
Peak Outflow :	32.6 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	3.5 (AC-FT)	Total Outflow :	3.5 (AC-FT)

Reach "R-OB4-B" Results for Run "EV 5-yr Pr. Type II"

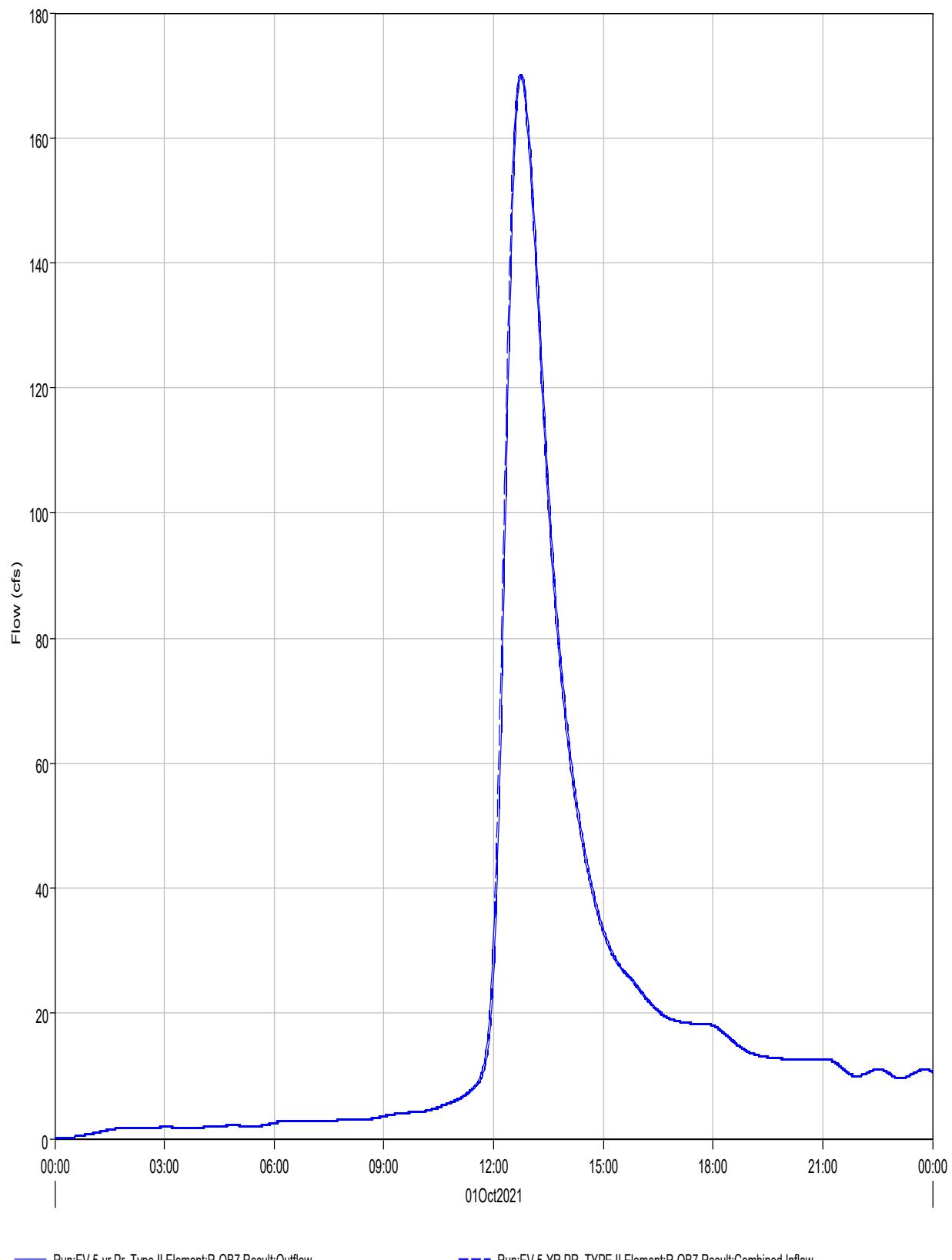


Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-OB4-B
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Inflow :	36.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	36.7 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:15
Total Inflow :	0.79 (IN)	Total Outflow :	0.79 (IN)

Reach "R-OB7" Results for Run "EV 5-yr Pr. Type II"

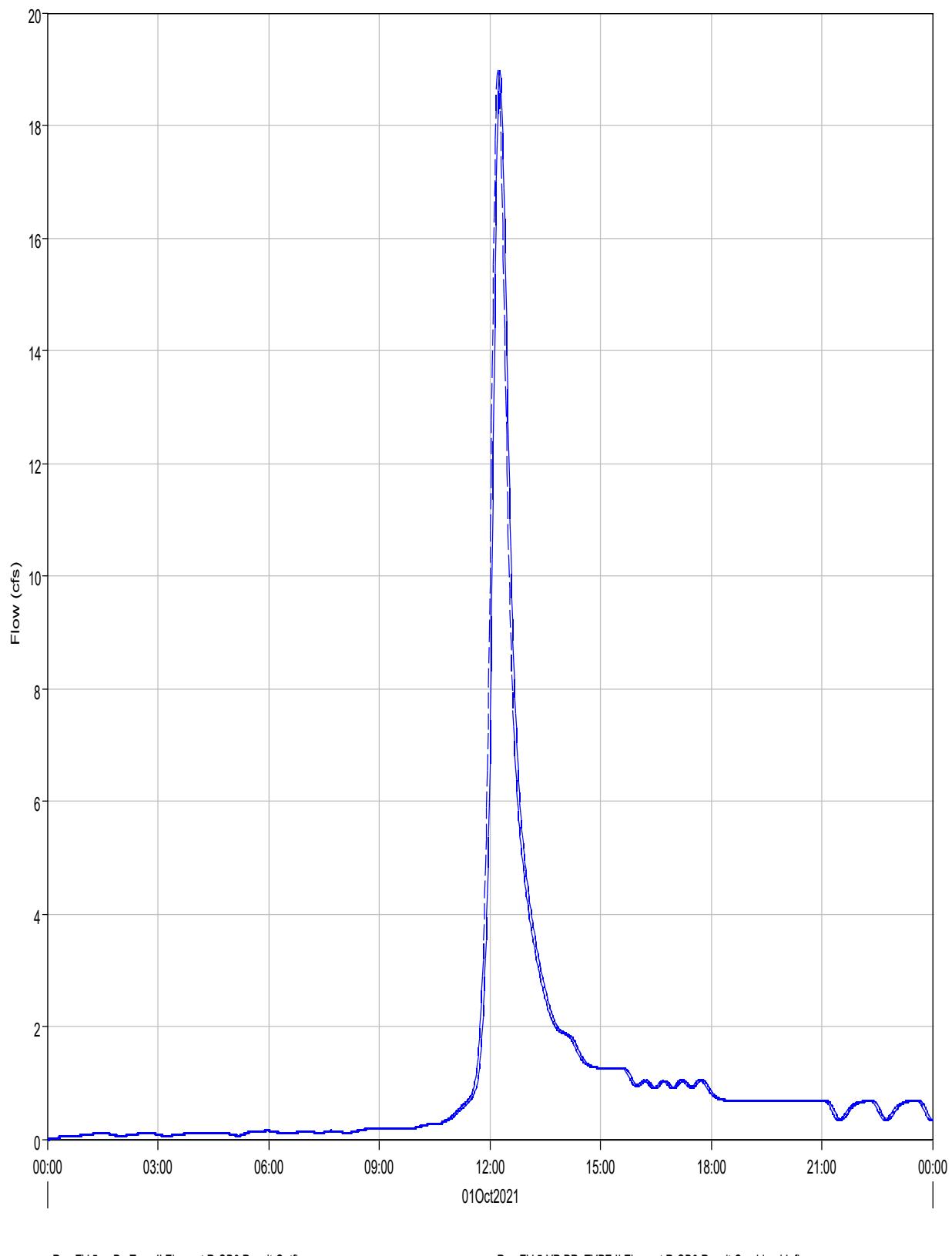


Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-OB7
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Inflow :	170.1 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:44
Peak Outflow :	170.1 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:46
Total Inflow :	0.66 (IN)	Total Outflow :	0.66 (IN)

Reach "R-OB8" Results for Run "EV 5-yr Pr. Type II"

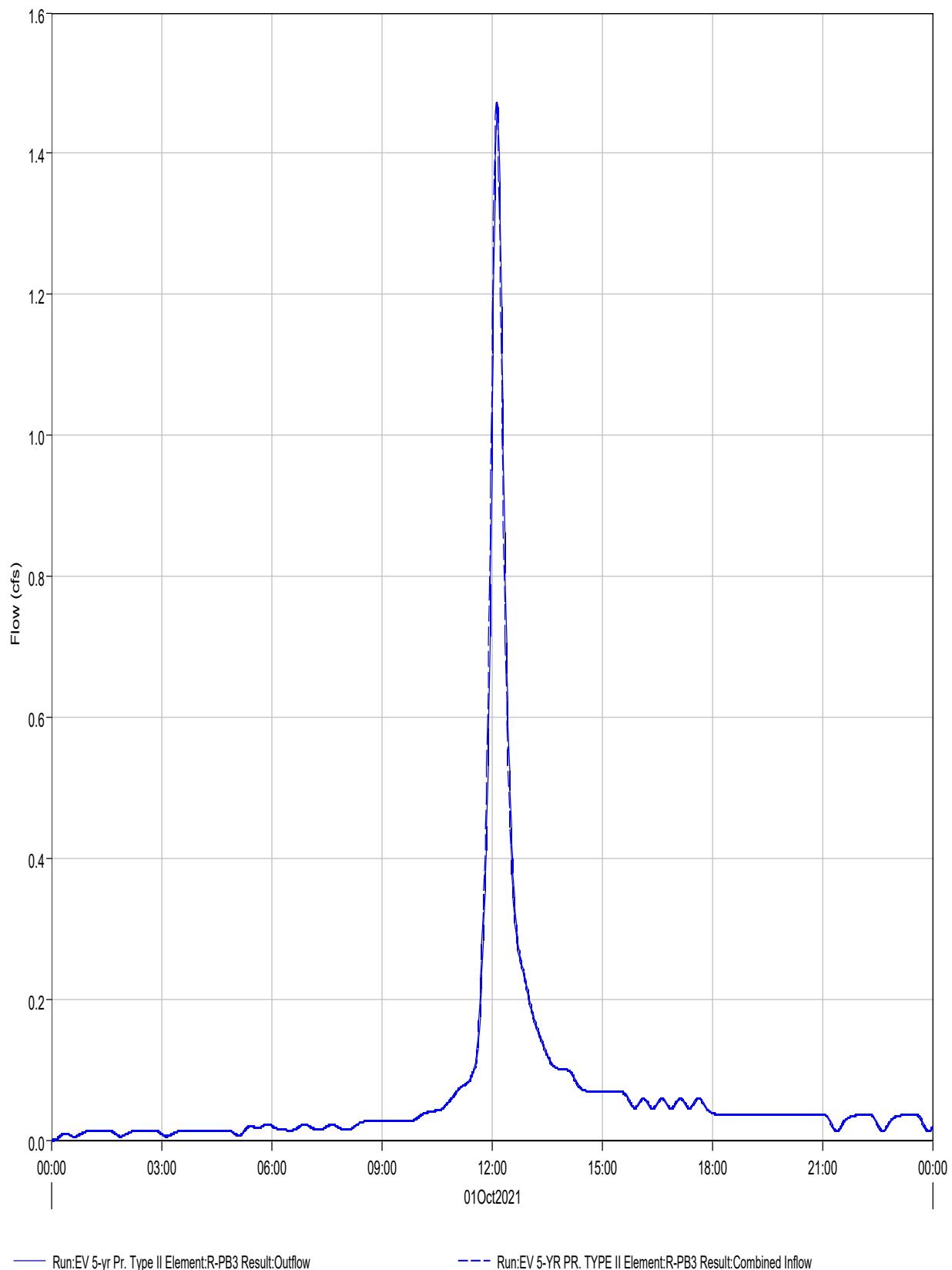


Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-OB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Inflow :	19.0 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	19.0 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:16
Total Inflow :	0.76 (IN)	Total Outflow :	0.76 (IN)

Reach "R-PB3" Results for Run "EV 5-yr Pr. Type II"



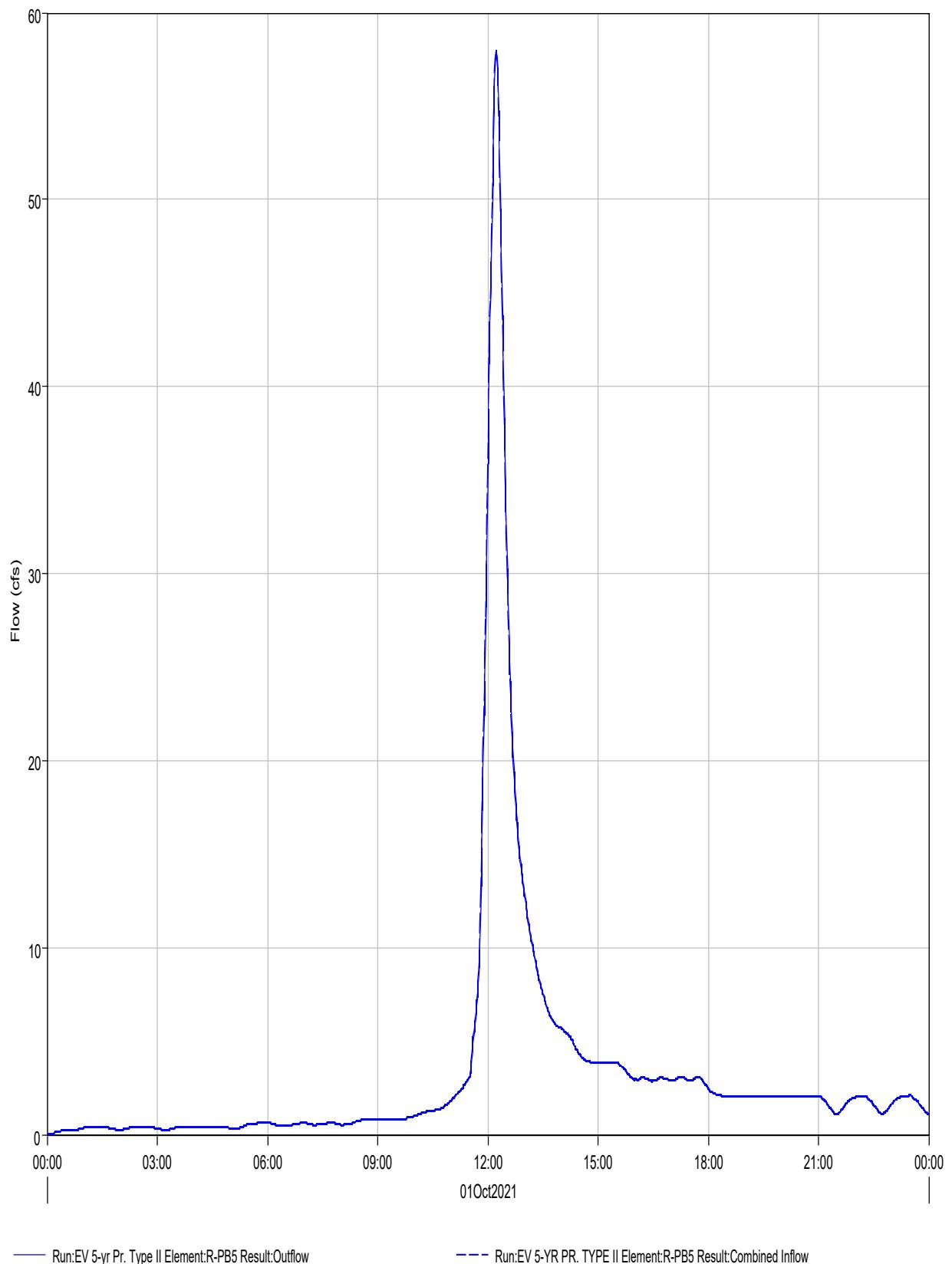
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	1.5 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	1.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:09
Total Inflow :	0.1 (AC-FT)	Total Outflow :	0.1 (AC-FT)

Reach "R-PB5" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB5

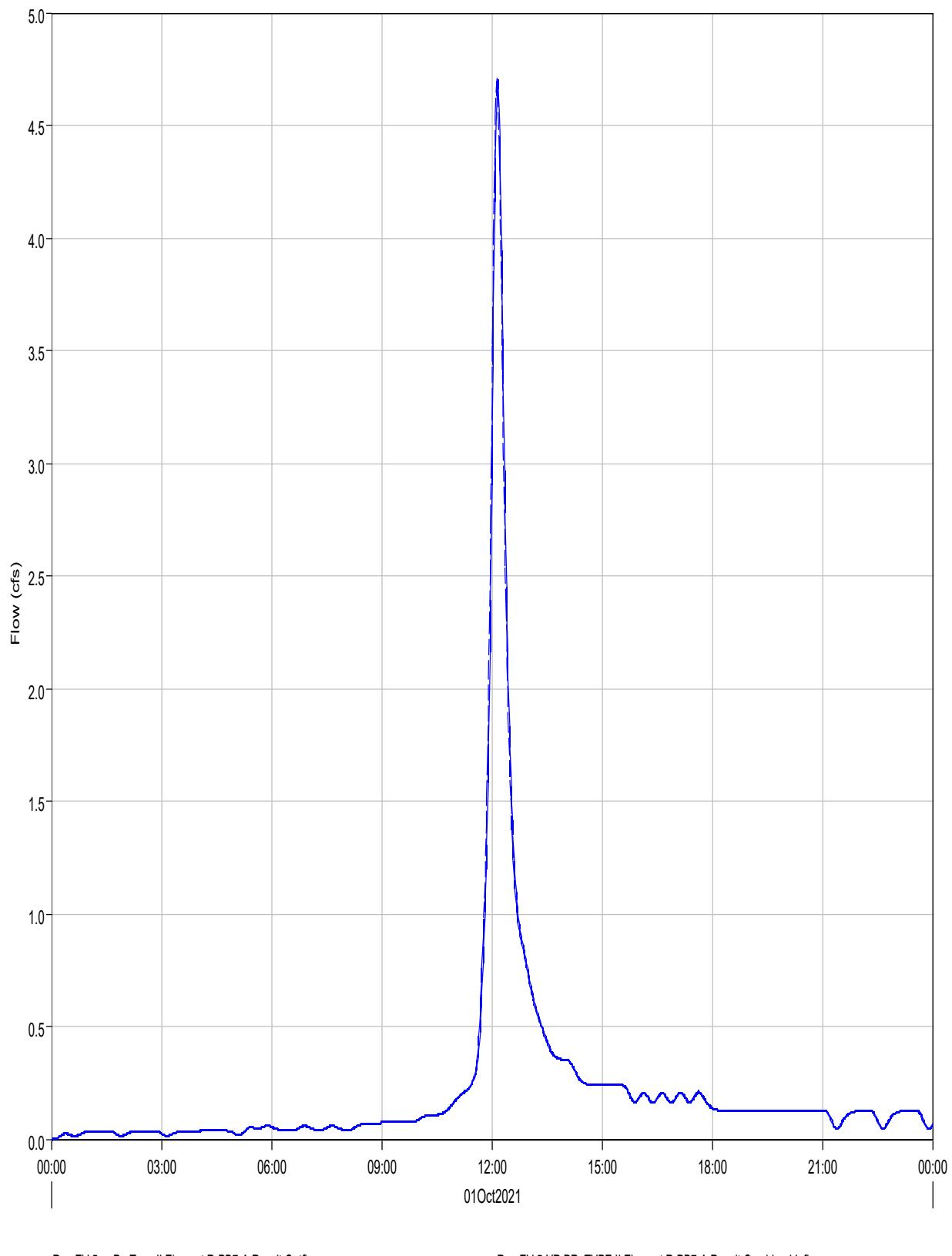
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	57.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	57.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:14
Total Inflow :	6.7 (AC-FT)	Total Outflow :	6.7 (AC-FT)

Reach "R-PB7-A" Results for Run "EV 5-yr Pr. Type II"



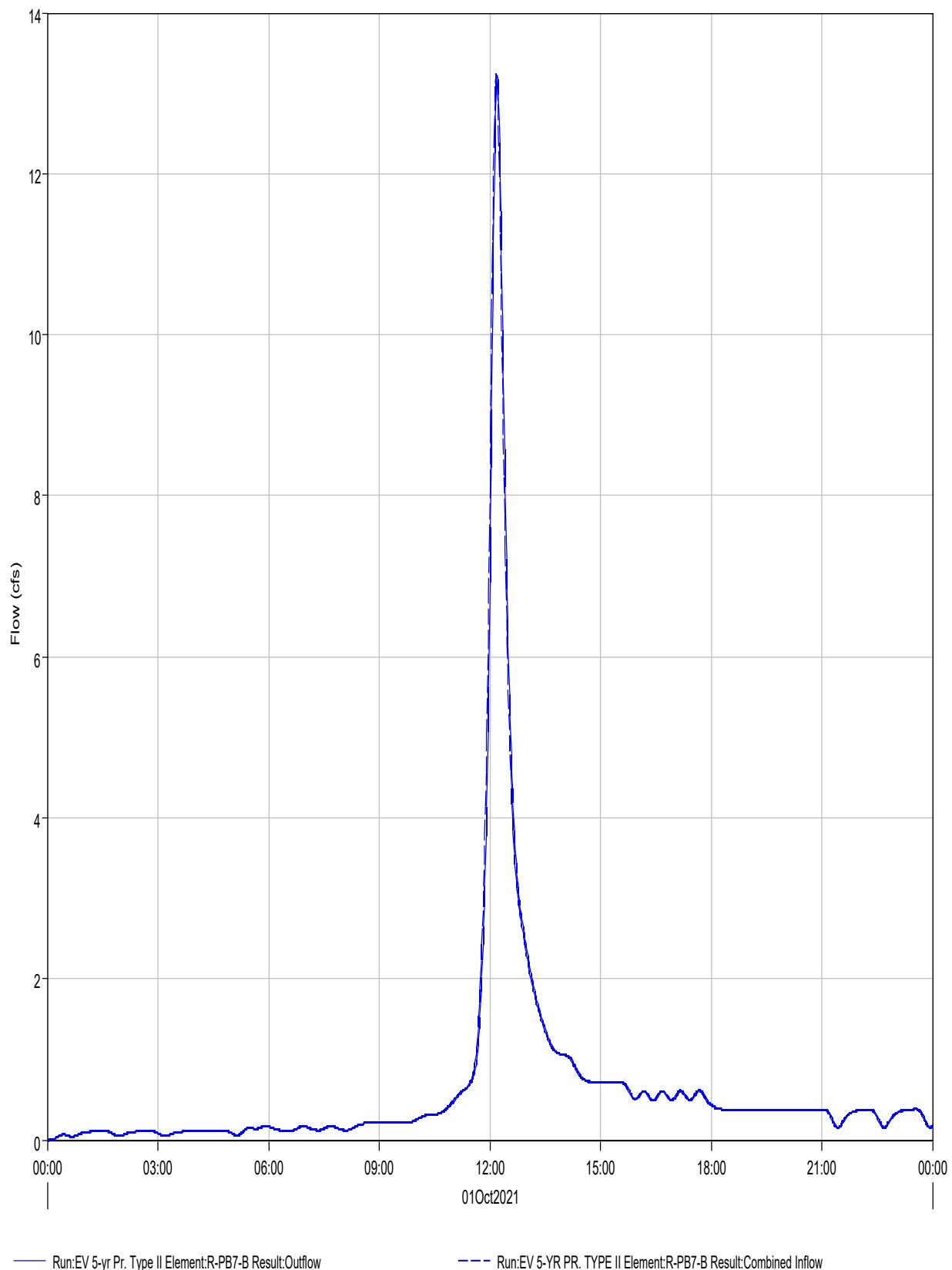
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB7-A
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	4.7 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	4.7 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:10
Total Inflow :	0.4 (AC-FT)	Total Outflow :	0.4 (AC-FT)

Reach "R-PB7-B" Results for Run "EV 5-yr Pr. Type II"



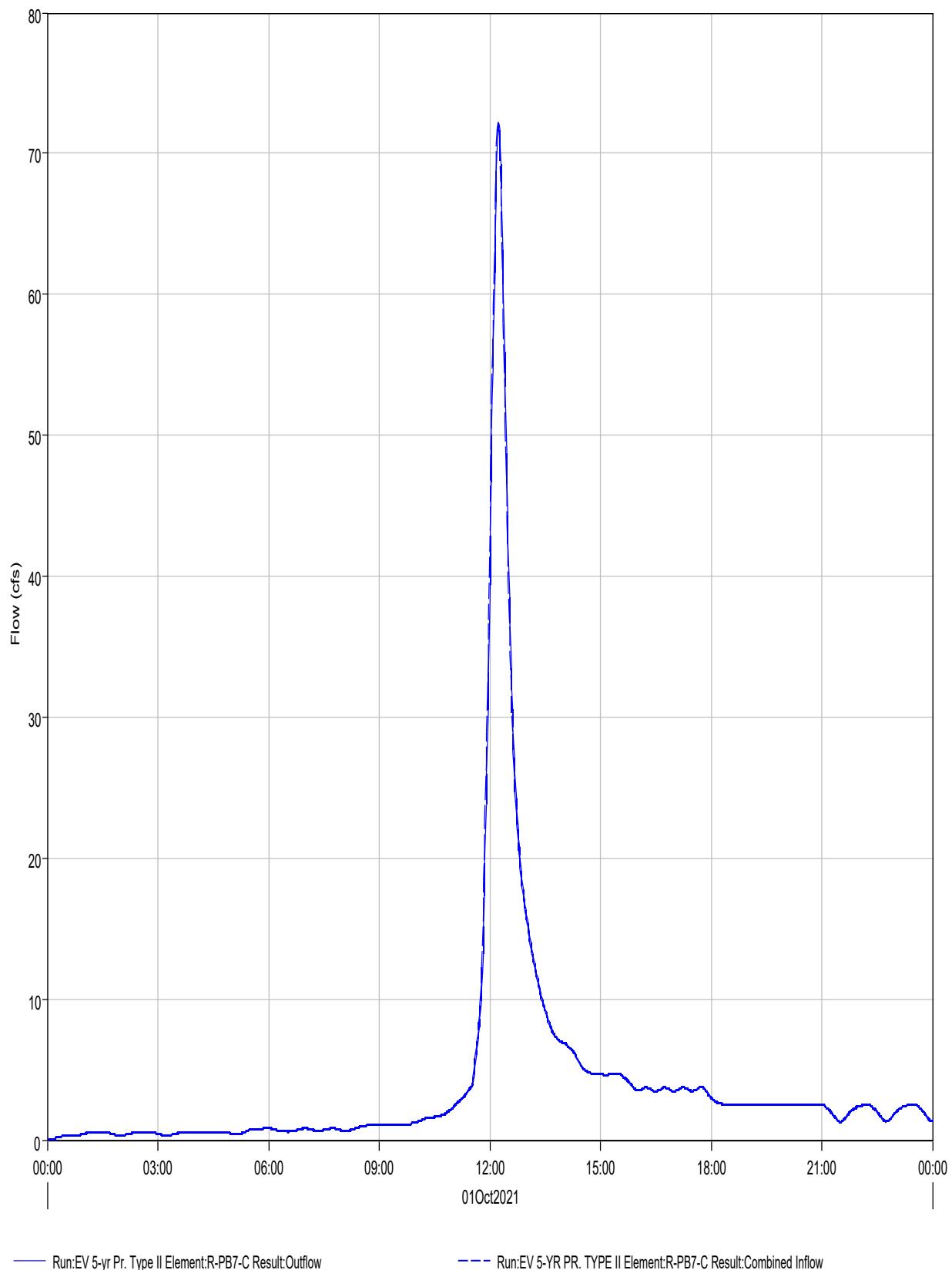
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB7-B
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	13.2 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:10
Peak Outflow :	13.2 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:12
Total Inflow :	1.3 (AC-FT)	Total Outflow :	1.3 (AC-FT)

Reach "R-PB7-C" Results for Run "EV 5-yr Pr. Type II"



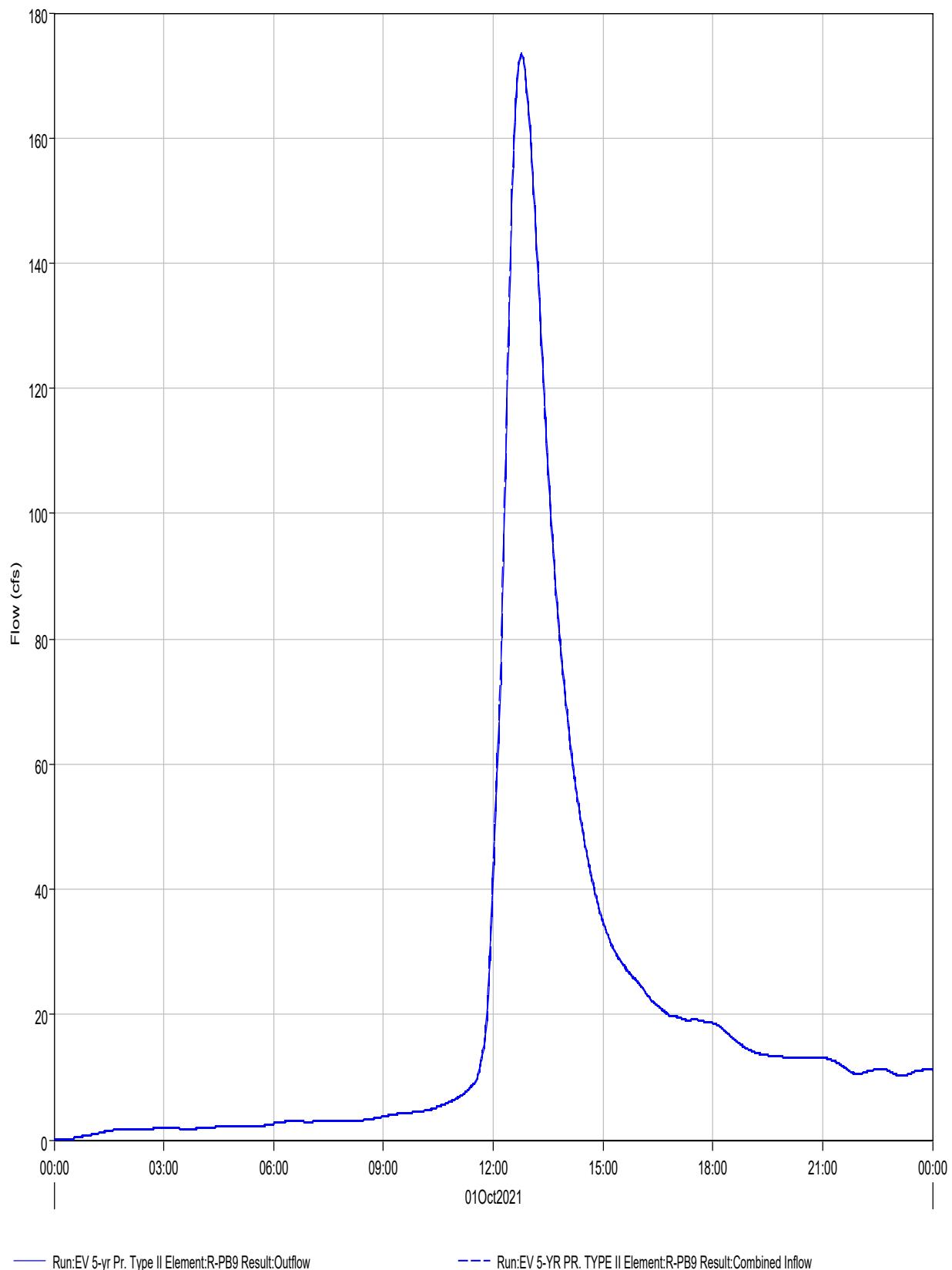
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB7-C
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	72.2 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	72.1 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:14
Total Inflow :	8.1 (AC-FT)	Total Outflow :	8.1 (AC-FT)

Reach "R-PB9" Results for Run "EV 5-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB9

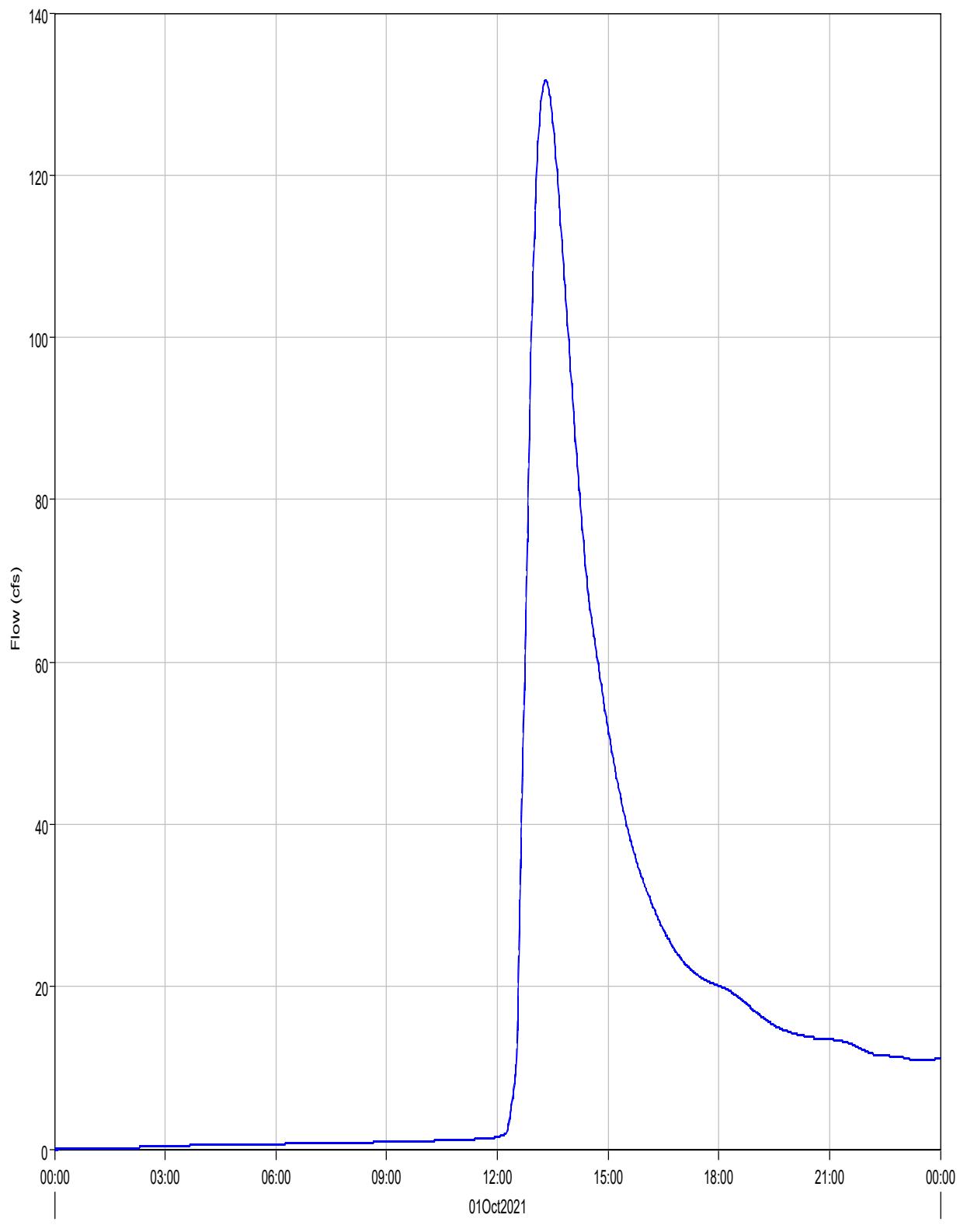
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Inflow :	173.4 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:46
Peak Outflow :	173.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:47
Total Inflow :	0.67 (IN)	Total Outflow :	0.67 (IN)

Reach "R-PB10" Results for Run "EV 5-yr Pr. Type II"



— Run:EV 5-yr Pr. Type II Element:R-PB10 Result:Outflow

- - Run:EV 5-YR PR. TYPE II Element:R-PB10 Result:Combined Inflow

Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB10
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Inflow :	131.7 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 13:18
Peak Outflow :	131.6 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:19
Total Inflow :	0.55 (IN)	Total Outflow :	0.55 (IN)

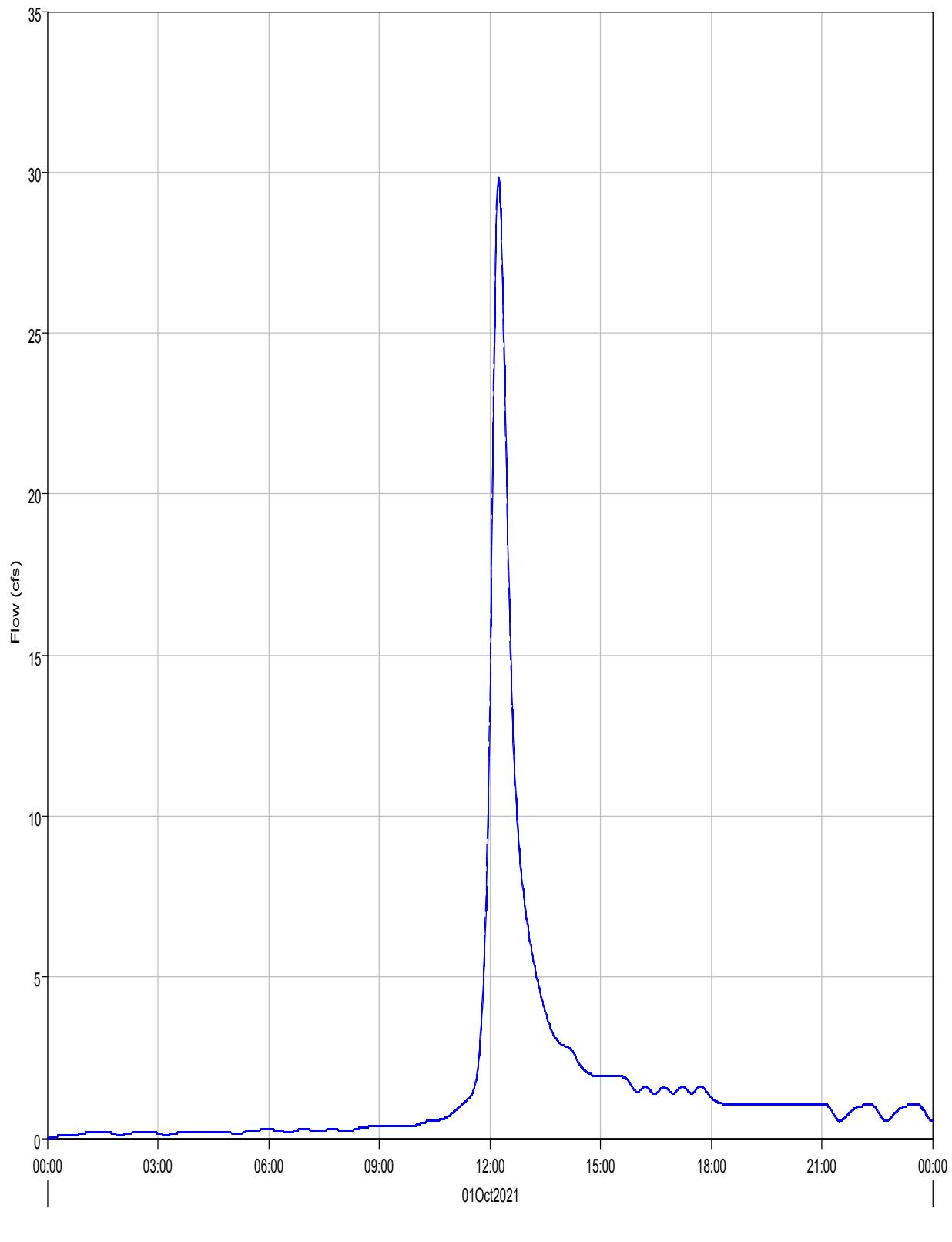
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB11
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: IN

Computed Results

Peak Inflow :	29.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:14
Peak Outflow :	29.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:15
Total Inflow :	0.80 (IN)	Total Outflow :	0.80 (IN)

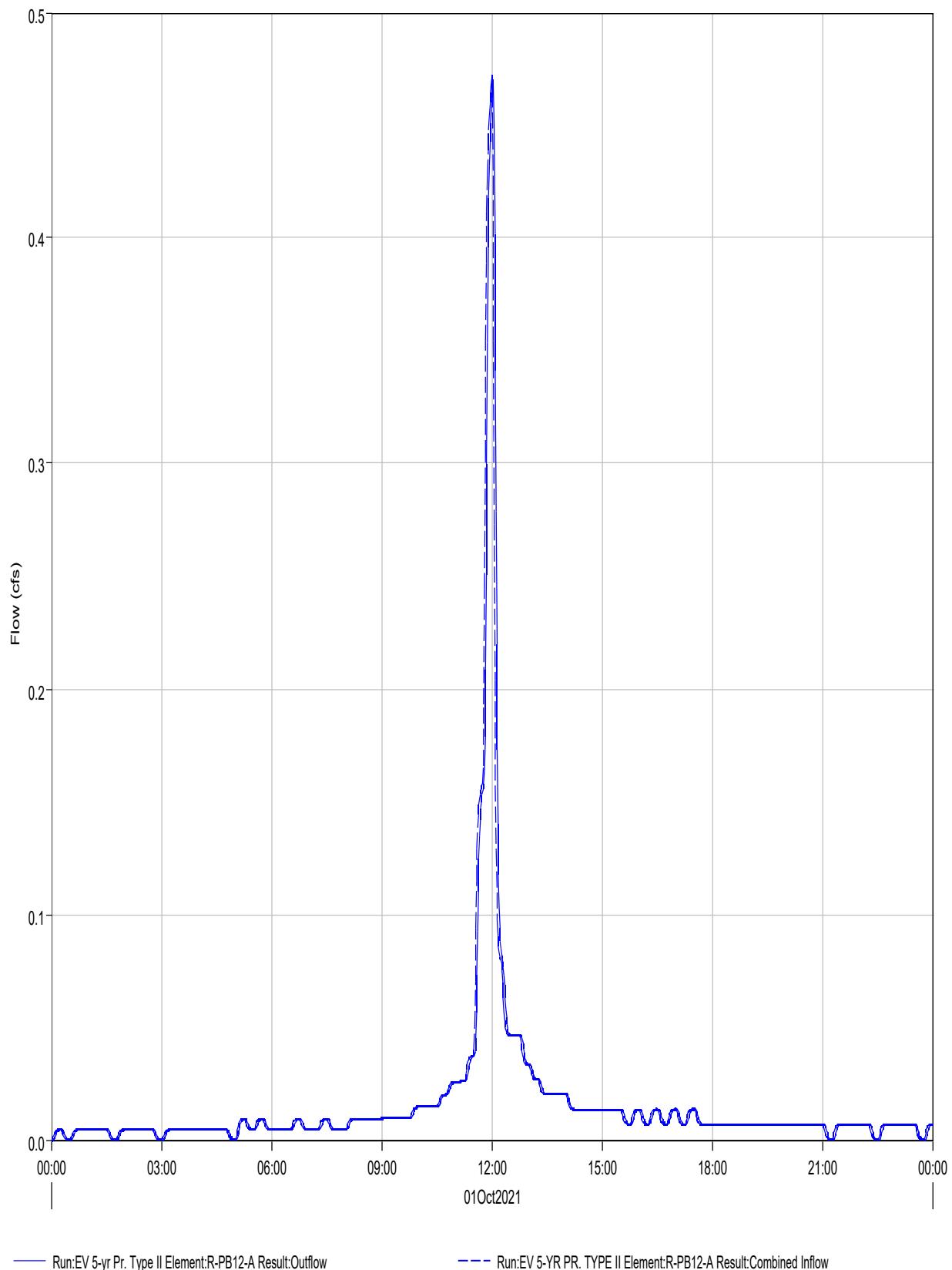
Reach "R-PB11" Results for Run "EV 5-yr Pr. Type II"



Run:EV 5-yr Pr. Type II Element:R-PB11 Result:Outflow

Run:EV 5-YR PR. TYPE II Element:R-PB11 Result:Combined Inflow

Reach "R-PB12-A" Results for Run "EV 5-yr Pr. Type II"



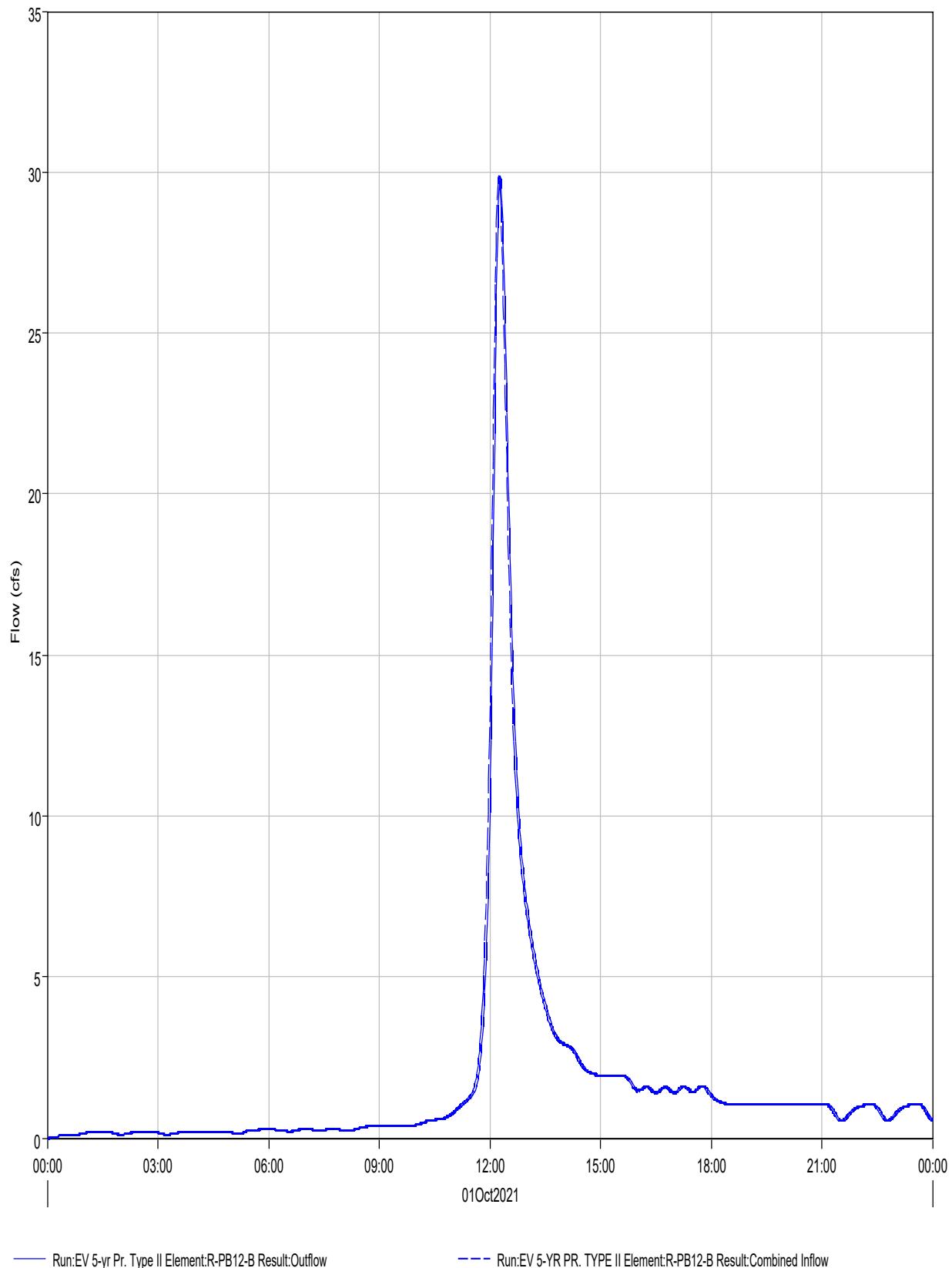
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB12-A
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	0.5 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:00
Peak Outflow :	0.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:02
Total Inflow :	0.0 (AC-FT)	Total Outflow :	0.0 (AC-FT)

Reach "R-PB12-B" Results for Run "EV 5-yr Pr. Type II"



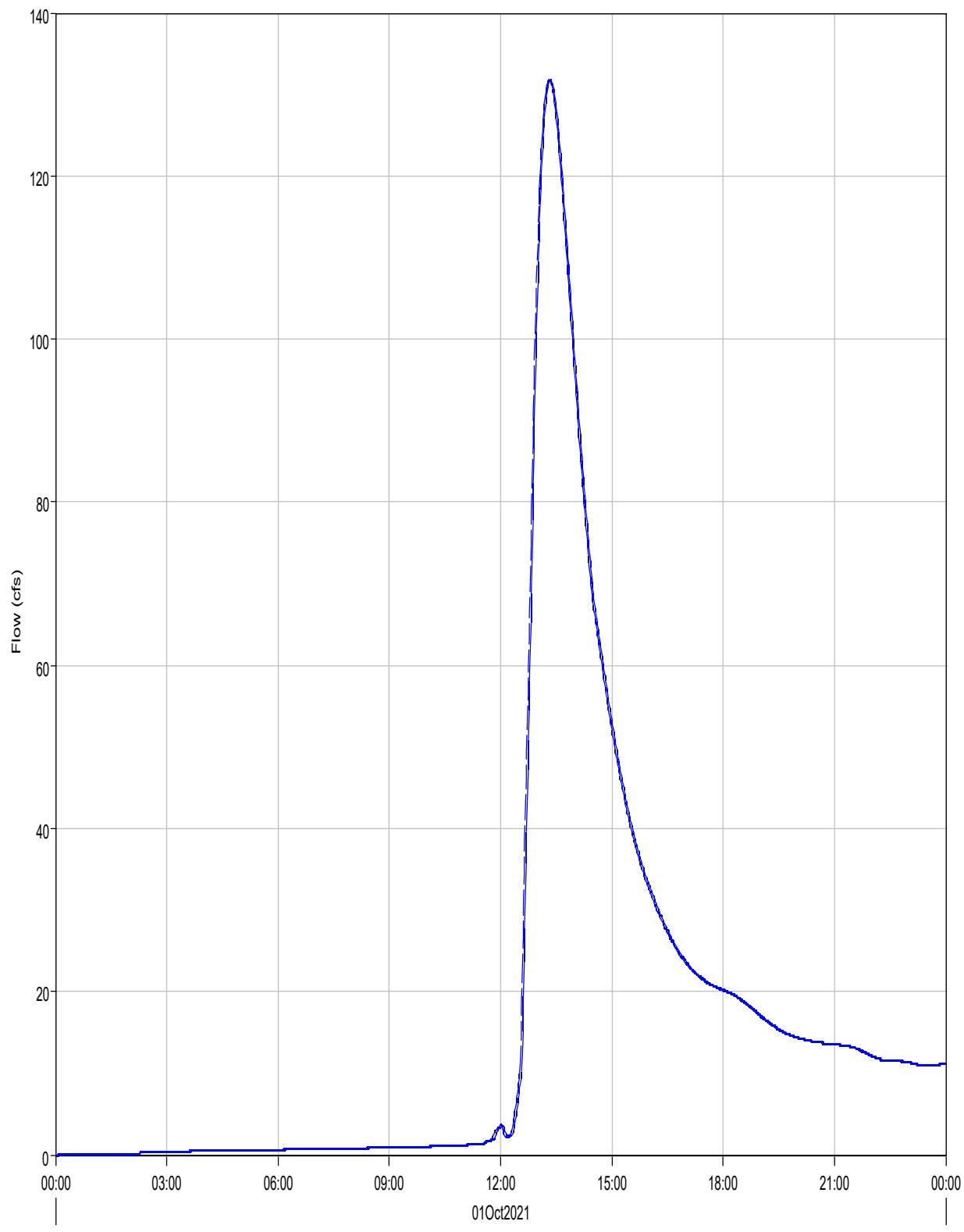
Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB12-B
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	29.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:15
Peak Outflow :	29.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:17
Total Inflow :	3.3 (AC-FT)	Total Outflow :	3.3 (AC-FT)

Reach "R-PB13" Results for Run "EV 5-yr Pr. Type II"



Run:EV 5-yr Pr. Type II Element:R-PB13 Result:Outflow

Run:EV 5-YR PR. TYPE II Element:R-PB13 Result:Combined Inflow

Project: Eagleview_Subdivision
Simulation Run: EV 5-yr Pr. Type II Reach: R-PB13
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 5-yr Type II
Compute Time: 14Mar2022, 16:43:16 Control Specifications: 24-hr Storm
Volume Units: IN

Computed Results

Peak Inflow :	131.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 13:19
Peak Outflow :	131.7 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:21
Total Inflow :	0.55 (IN)	Total Outflow :	0.55 (IN)

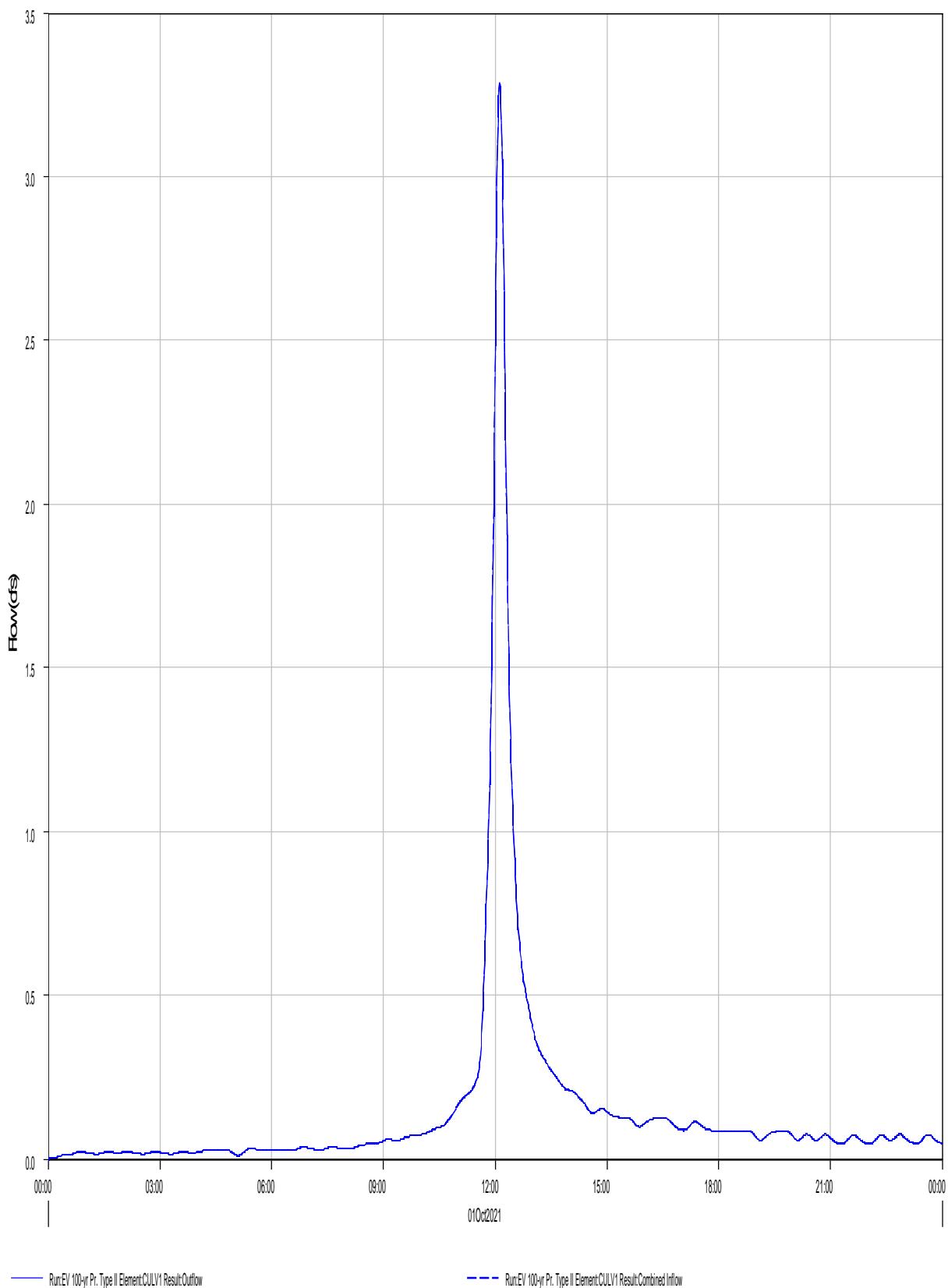
Project: Eagleview_Subdivision Simulation Run: EV 100-yr Pr. Type II

Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
 End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
 Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
CULV1	0.0021625	3.3	01Oct2021, 12:07	0.3
CULV4	0.0087281	11.3	01Oct2021, 12:08	1.0
CULV5	.000315625	0.9	01Oct2021, 12:00	0.1
OB1	0.0162031	18.8	01Oct2021, 12:08	1.7
OB2	0.0438438	52.7	01Oct2021, 12:08	4.7
OB3	0.0678750	67.1	01Oct2021, 12:12	6.9
OB4	0.0164062	18.9	01Oct2021, 12:10	1.8
OB5	0.22472	106.9	01Oct2021, 12:40	19.7
OB6	0.18501	114.9	01Oct2021, 12:29	17.8
OB7	0.65812	284.3	01Oct2021, 12:52	60.6
OB8	0.0516699	51.0	01Oct2021, 12:13	5.3
P1	0.0228484	26.4	01Oct2021, 12:09	2.4
P10 (CULV2)	0.15425	150.1	01Oct2021, 12:12	16.4
P11 (CULV3)	0.0260593	31.9	01Oct2021, 12:10	3.1
P12 (CULV8)	1.1270	420.3	01Oct2021, 13:06	96.8
P2	0.19753	189.1	01Oct2021, 12:13	21.4
P3	1.2312	437.7	01Oct2021, 13:07	107.9
P4	0.18248	184.6	01Oct2021, 12:12	19.8
P5 (CULV7)	0.0939437	95.9	01Oct2021, 12:13	9.8
P6	0.0771621	78.5	01Oct2021, 12:14	8.2
P7	1.1242	420.1	01Oct2021, 13:05	96.5
P8	1.1062	486.7	01Oct2021, 12:44	102.2
P9 (CULV6)	0.0768465	78.4	01Oct2021, 12:13	8.2
PB1	0.0066453	7.7	01Oct2021, 12:09	0.7
PB10	0.0179938	20.4	01Oct2021, 12:10	2.0
PB11	0.0251766	29.8	01Oct2021, 12:10	2.9

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
PB12	.000315625	0.9	01Oct2021, 12:00	0.1
PB13	0.0027469	5.1	01Oct2021, 12:00	0.3
PB14	0.0270031	46.3	01Oct2021, 12:01	2.9
PB15	0.0150500	26.3	01Oct2021, 12:00	1.7
PB2	0.0016938	2.4	01Oct2021, 12:06	0.2
PB3	0.0021625	3.3	01Oct2021, 12:07	0.3
PB4	0.0164672	30.2	01Oct2021, 12:00	1.9
PB5	0.0096625	10.4	01Oct2021, 12:12	1.1
PB6	0.0173312	20.7	01Oct2021, 12:10	2.0
PB7	0.0087281	11.4	01Oct2021, 12:08	1.0
PB8	0.0184000	30.4	01Oct2021, 12:01	2.0
PB9	0.0199984	24.8	01Oct2021, 12:07	2.2
R-OB1	0.0162031	18.7	01Oct2021, 12:09	1.7
R-OB2	0.0438438	52.5	01Oct2021, 12:09	4.7
R-OB4-A	0.0842812	85.5	01Oct2021, 12:13	8.8
R-OB4-B	0.0939437	95.8	01Oct2021, 12:14	9.8
R-OB7	1.0678	479.0	01Oct2021, 12:44	98.1
R-OB8	0.0516699	50.9	01Oct2021, 12:15	5.3
R-PB10	1.1242	420.0	01Oct2021, 13:06	96.5
R-PB11	0.0768465	78.3	01Oct2021, 12:14	8.2
R-PB12-A	.000315625	0.9	01Oct2021, 12:02	0.1
R-PB12-B	0.0771621	78.4	01Oct2021, 12:15	8.2
R-PB13	1.1270	420.1	01Oct2021, 13:07	96.7
R-PB3	0.0021625	3.3	01Oct2021, 12:09	0.3
R-PB5	0.15425	150.0	01Oct2021, 12:13	16.4
R-PB7-A	0.0087281	11.3	01Oct2021, 12:09	1.0
R-PB7-B	0.0260593	31.9	01Oct2021, 12:11	3.1
R-PB7-C	0.18248	184.4	01Oct2021, 12:13	19.8
R-PB9	1.1062	486.6	01Oct2021, 12:44	102.2

Reach "CULV1" Results for Run "EV 100-yr Pr. Type II"



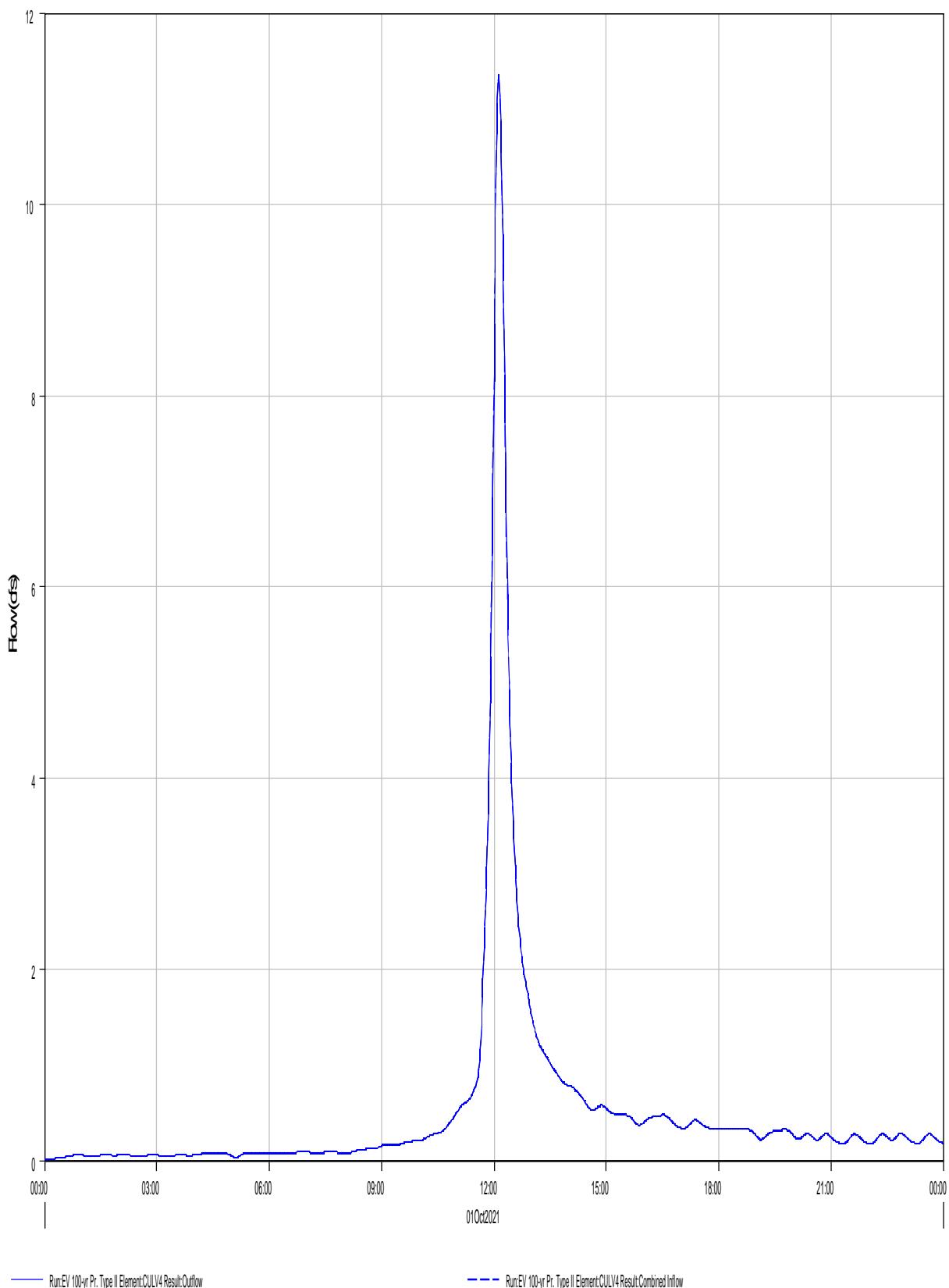
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: CULV1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	3.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:07
Peak Outflow :	3.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:07
Total Inflow :	0.3 (AC-FT)	Total Outflow :	0.3 (AC-FT)

Reach "CULV4" Results for Run "EV 100-yr Pr. Type II"



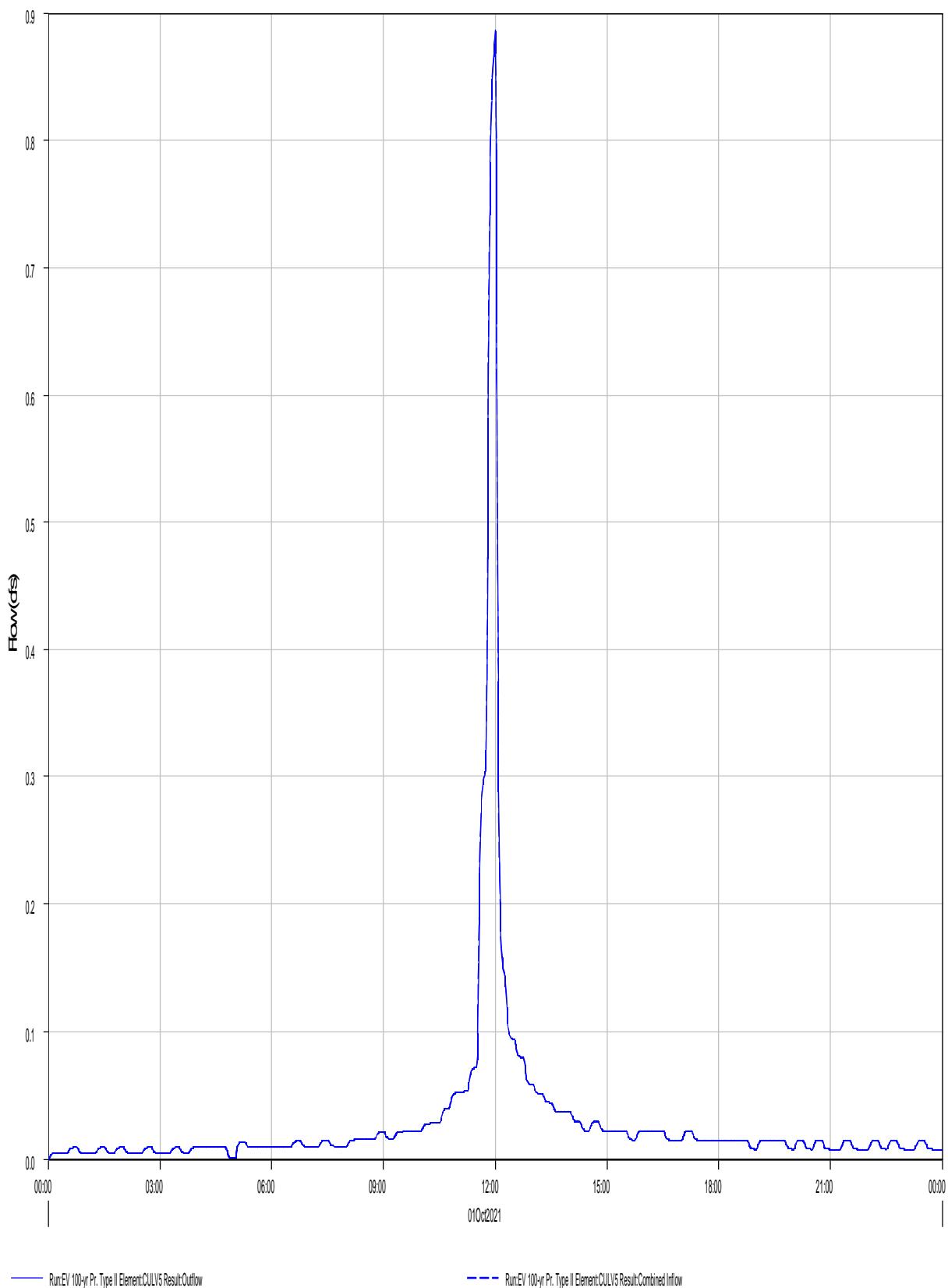
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: CULV4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	11.4 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	11.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:08
Total Inflow :	1.0 (AC-FT)	Total Outflow :	1.0 (AC-FT)

Reach "CULV5" Results for Run "EV 100-yr Pr. Type II"



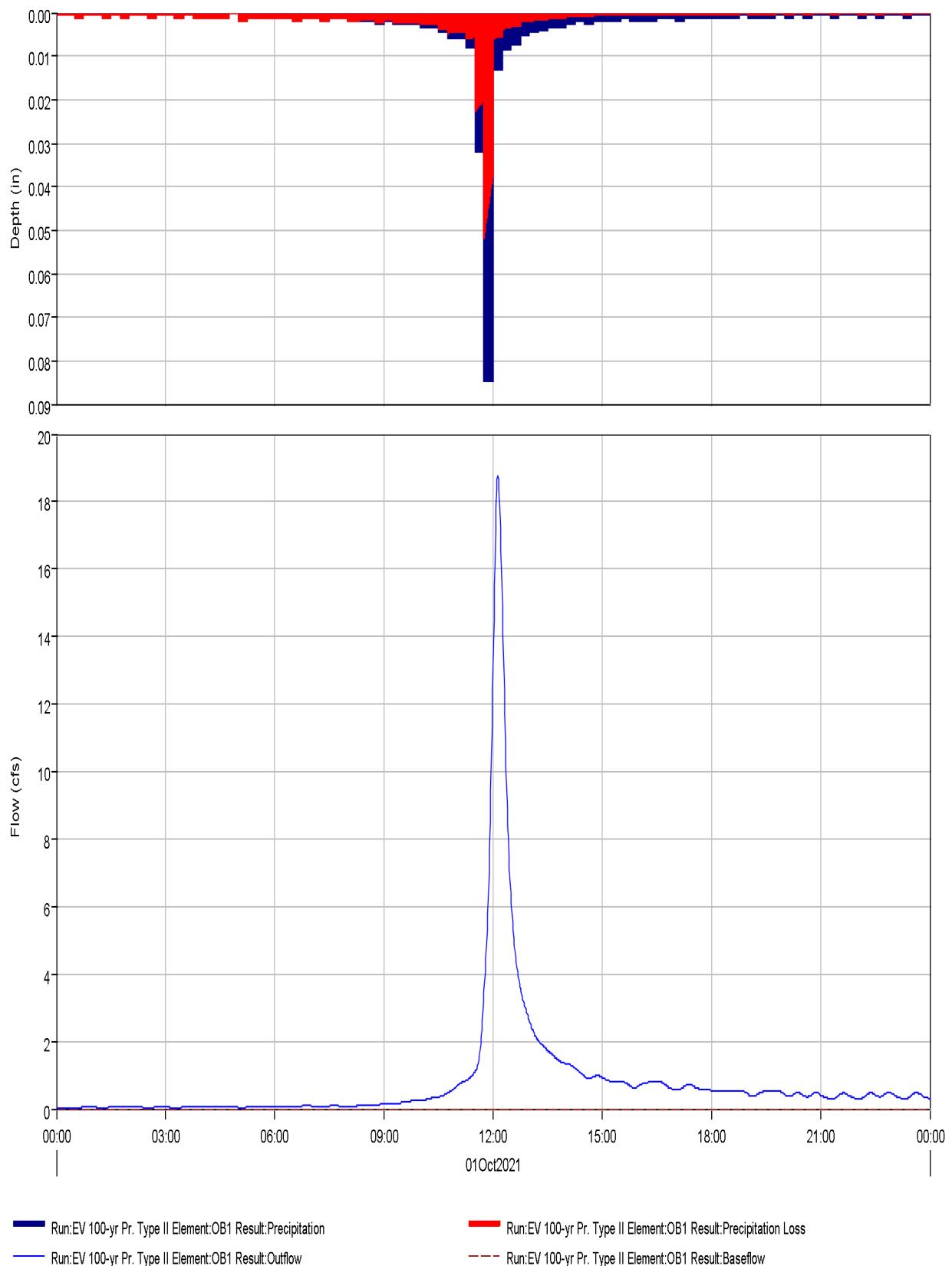
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: CULV5
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	0.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:00
Peak Outflow :	0.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:00
Total Inflow :	0.1 (AC-FT)	Total Outflow :	0.1 (AC-FT)

Subbasin "OB1" Results for Run "EV 100-yr Pr. Type II"



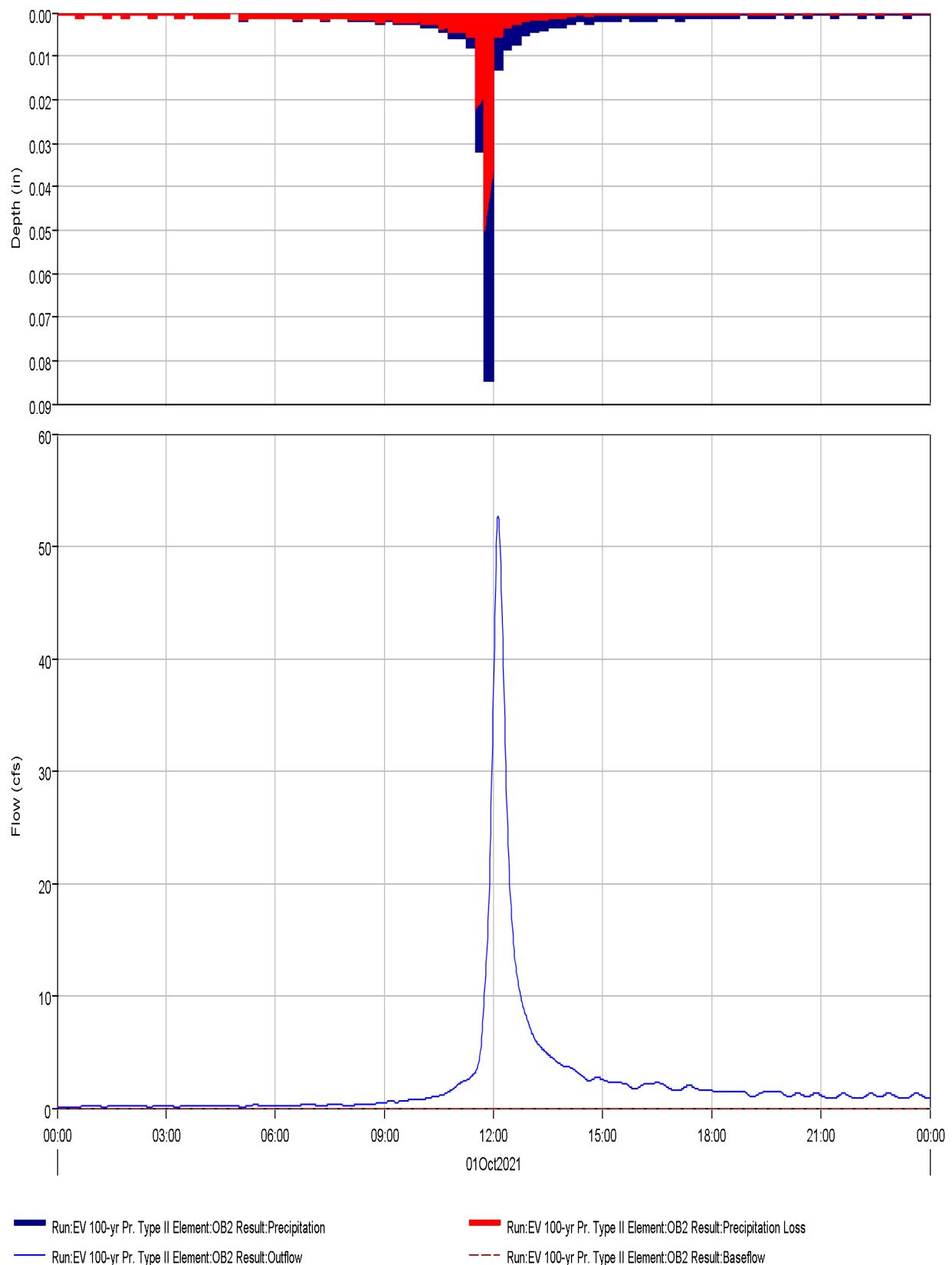
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	18.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	4.0 (AC-FT)	Total Direct Runoff :	1.7 (AC-FT)
Total Loss :	2.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.7 (AC-FT)	Discharge :	1.7 (AC-FT)

Subbasin "OB2" Results for Run "EV 100-yr Pr. Type II"



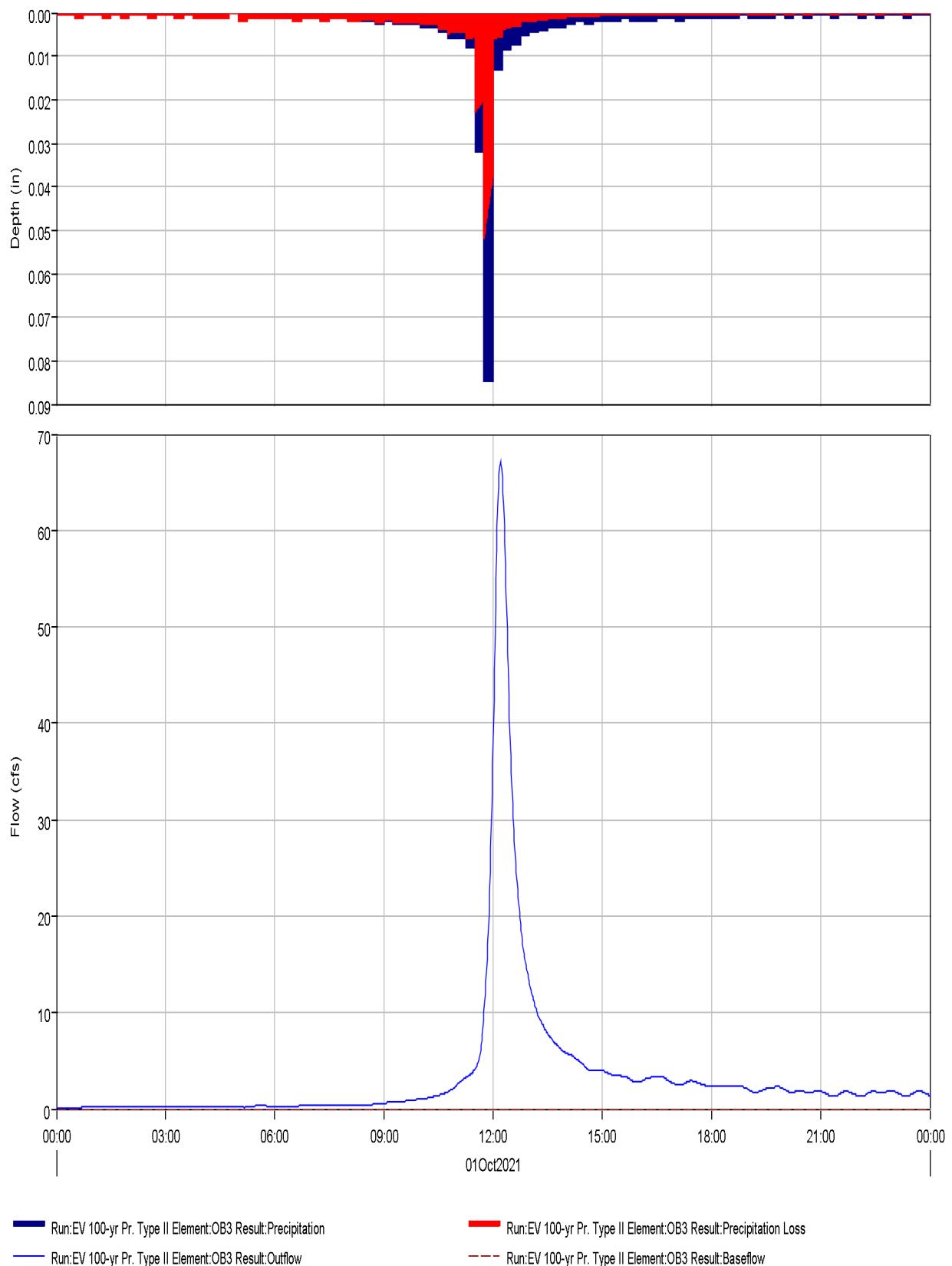
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	52.7 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	10.8 (AC-FT)	Total Direct Runoff :	4.7 (AC-FT)
Total Loss :	6.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	4.7 (AC-FT)	Discharge :	4.7 (AC-FT)

Subbasin "OB3" Results for Run "EV 100-yr Pr. Type II"



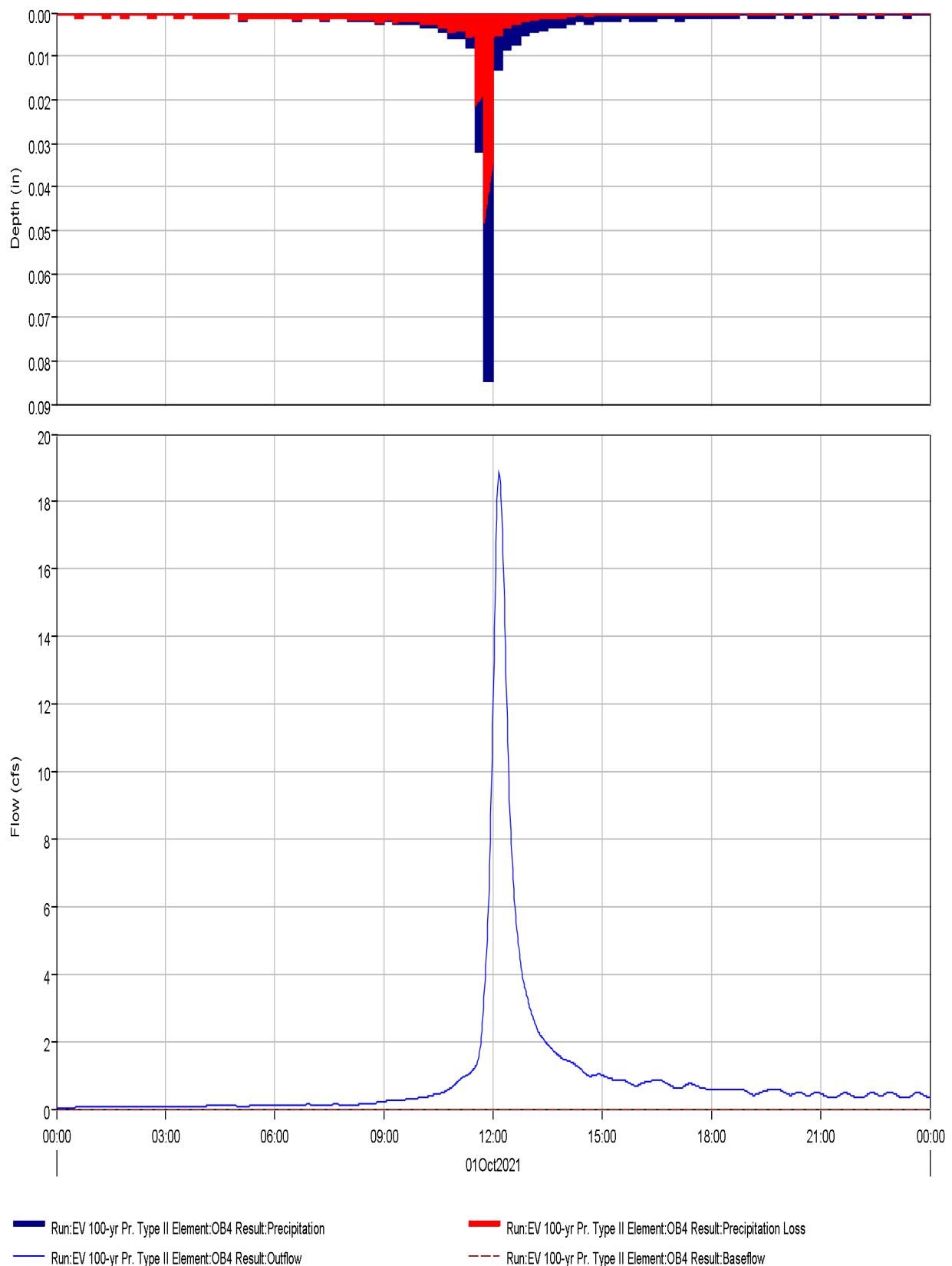
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	67.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:12
Total Precipitation :	16.7 (AC-FT)	Total Direct Runoff :	6.9 (AC-FT)
Total Loss :	9.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	7.0 (AC-FT)	Discharge :	6.9 (AC-FT)

Subbasin "OB4" Results for Run "EV 100-yr Pr. Type II"



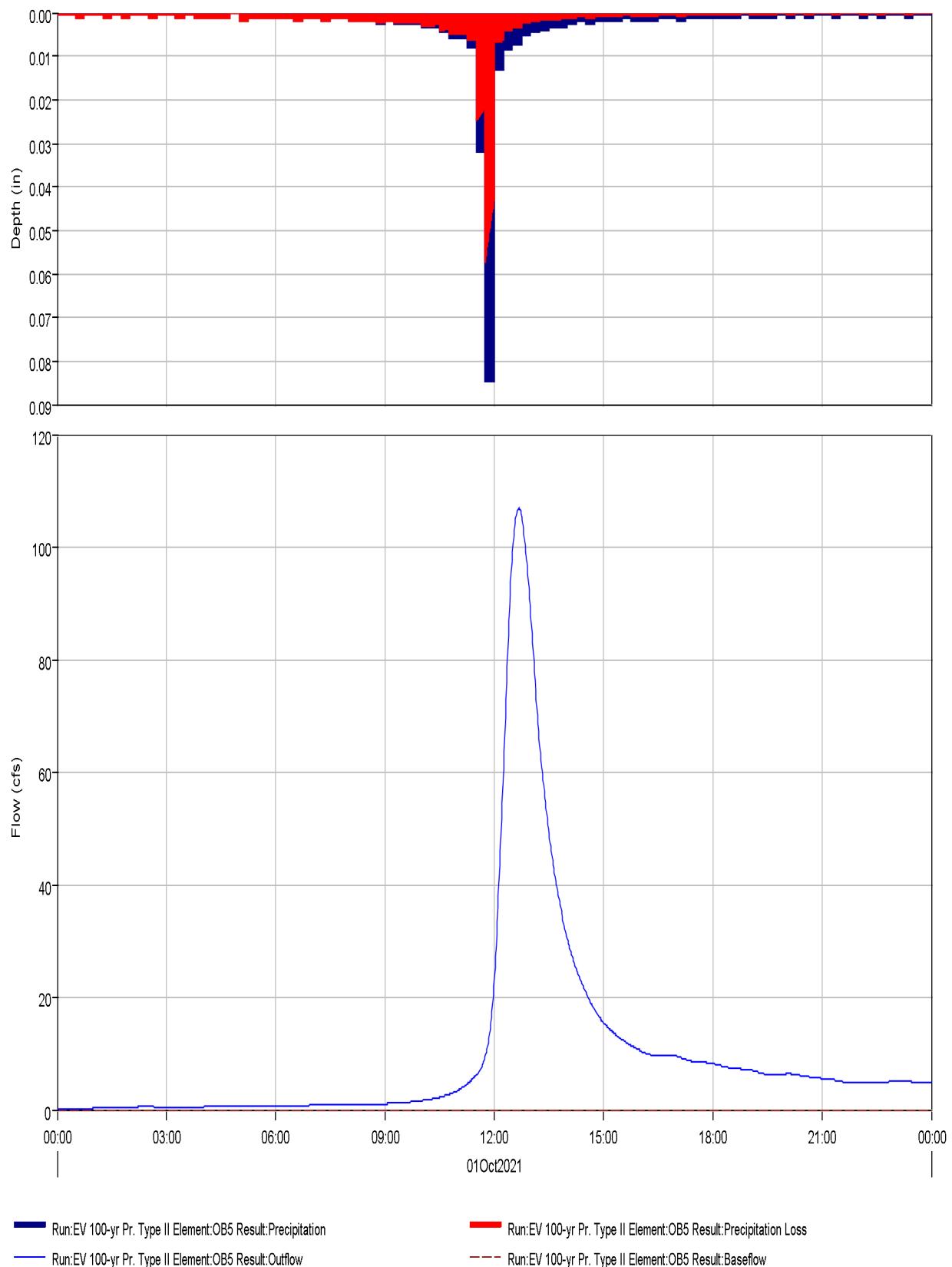
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	18.9 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	4.0 (AC-FT)	Total Direct Runoff :	1.8 (AC-FT)
Total Loss :	2.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.8 (AC-FT)	Discharge :	1.8 (AC-FT)

Subbasin "OB5" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB5

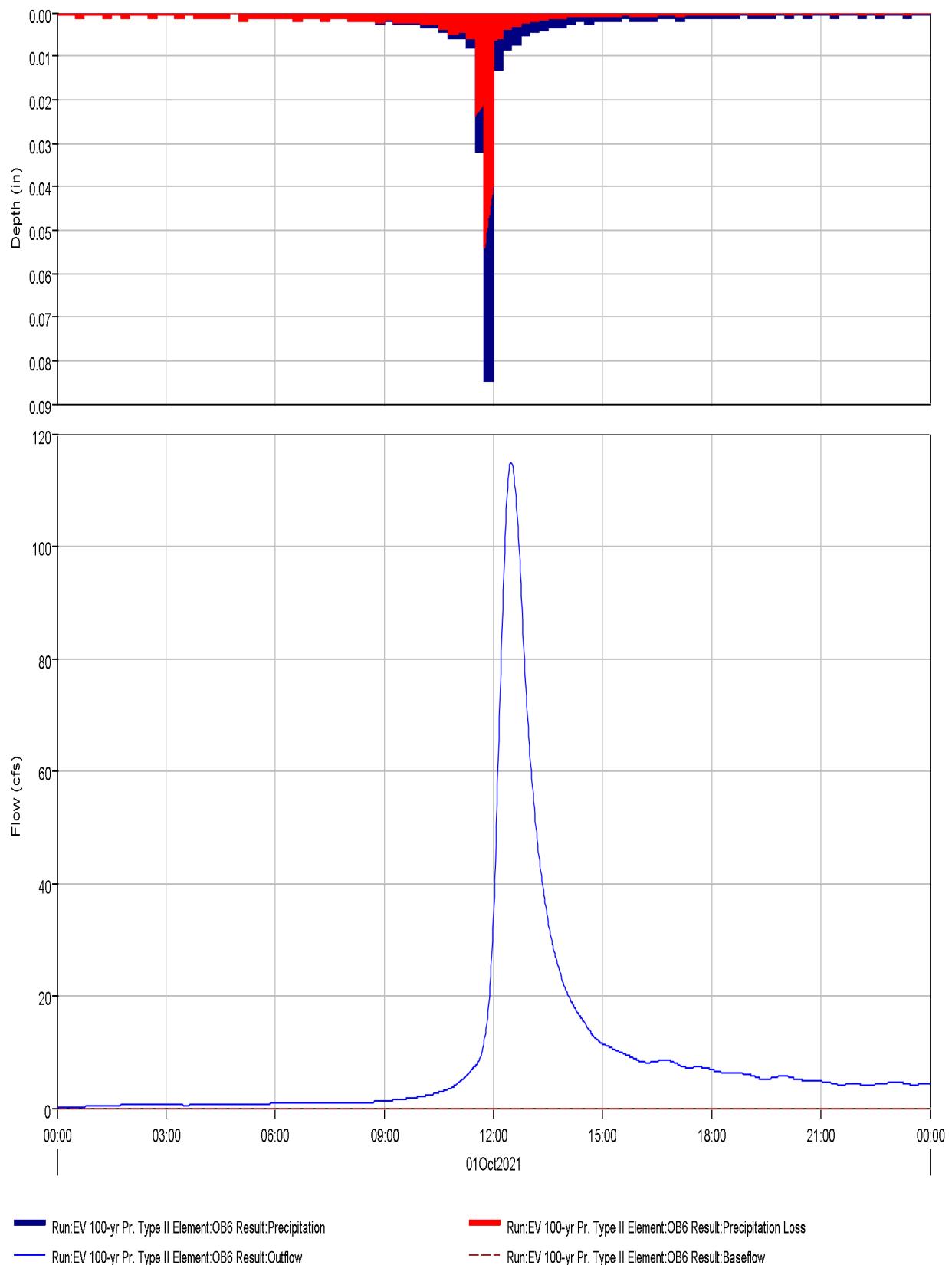
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	106.9 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:40
Total Precipitation :	55.1 (AC-FT)	Total Direct Runoff :	19.7 (AC-FT)
Total Loss :	35.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	20.1 (AC-FT)	Discharge :	19.7 (AC-FT)

Subbasin "OB6" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB6

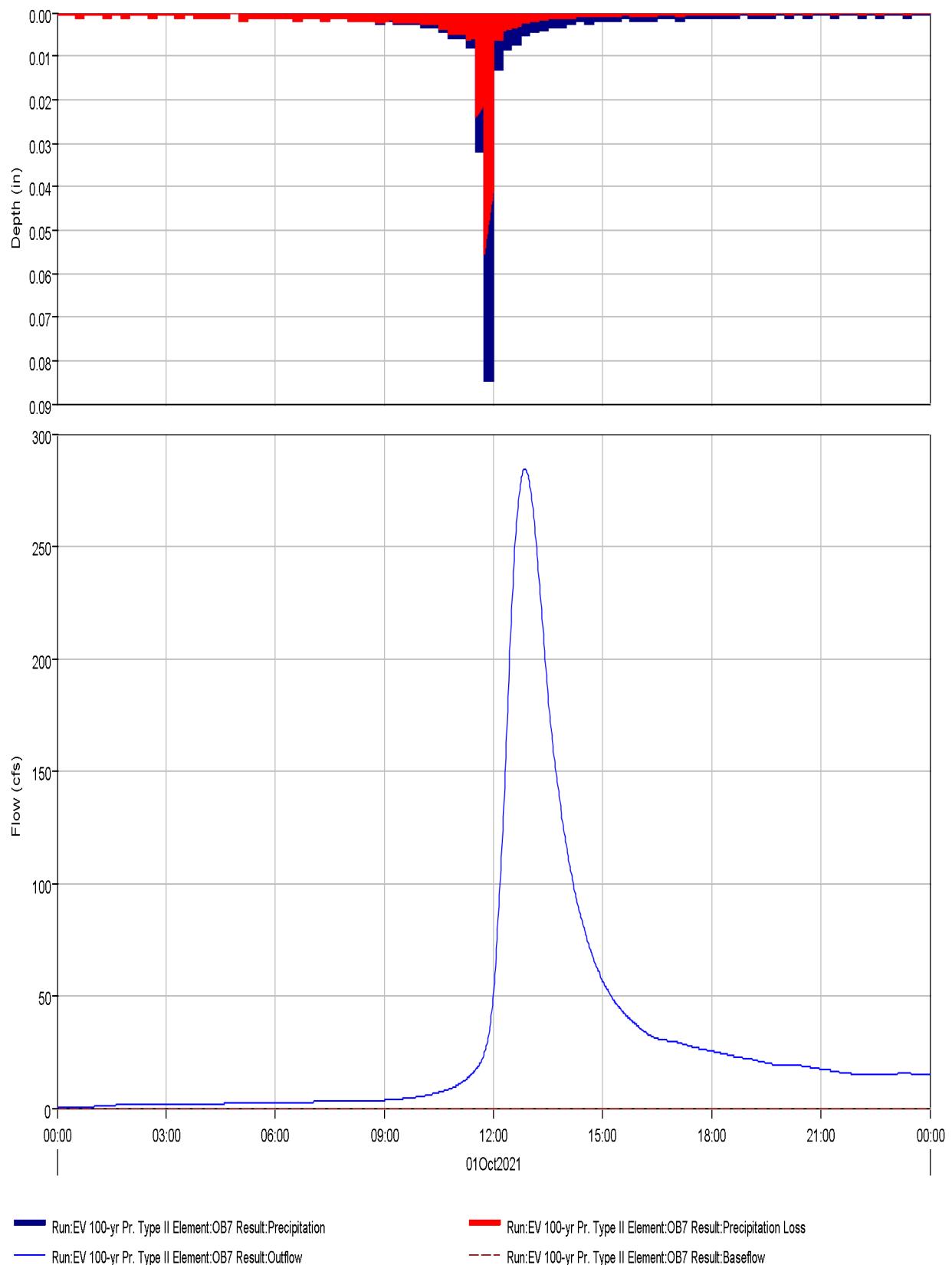
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	114.9 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:29
Total Precipitation :	45.4 (AC-FT)	Total Direct Runoff :	17.8 (AC-FT)
Total Loss :	27.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	18.1 (AC-FT)	Discharge :	17.8 (AC-FT)

Subbasin "OB7" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB7

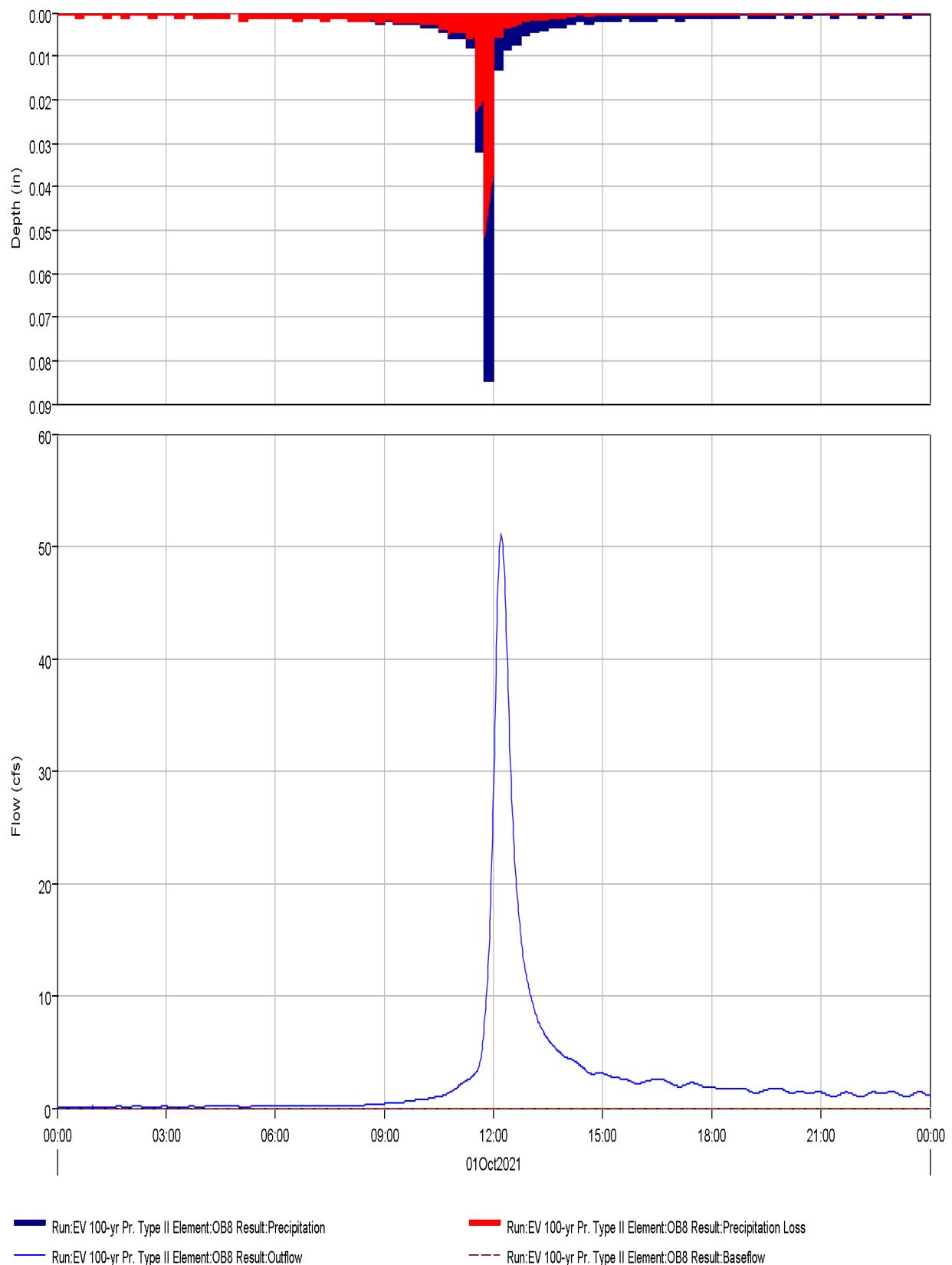
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	284.3 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:52
Total Precipitation :	161.5 (AC-FT)	Total Direct Runoff :	60.6 (AC-FT)
Total Loss :	99.5 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	62.0 (AC-FT)	Discharge :	60.6 (AC-FT)

Subbasin "OB8" Results for Run "EV 100-yr Pr. Type II"



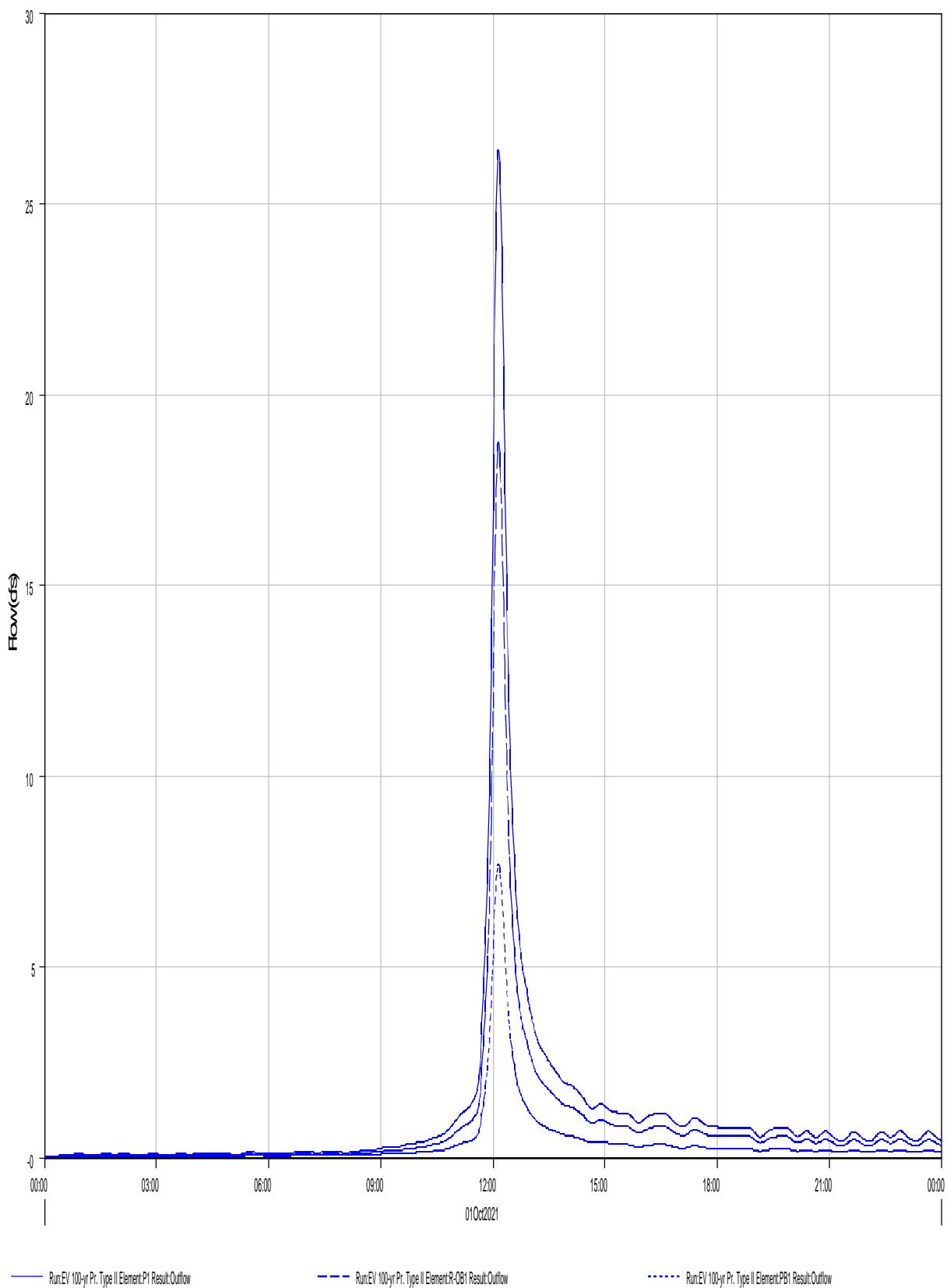
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: OB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	51.0 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:13
Total Precipitation :	12.7 (AC-FT)	Total Direct Runoff :	5.3 (AC-FT)
Total Loss :	7.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	5.3 (AC-FT)	Discharge :	5.3 (AC-FT)

Junction "P1" Results for Run "EV 100-yr Pr. Type II"



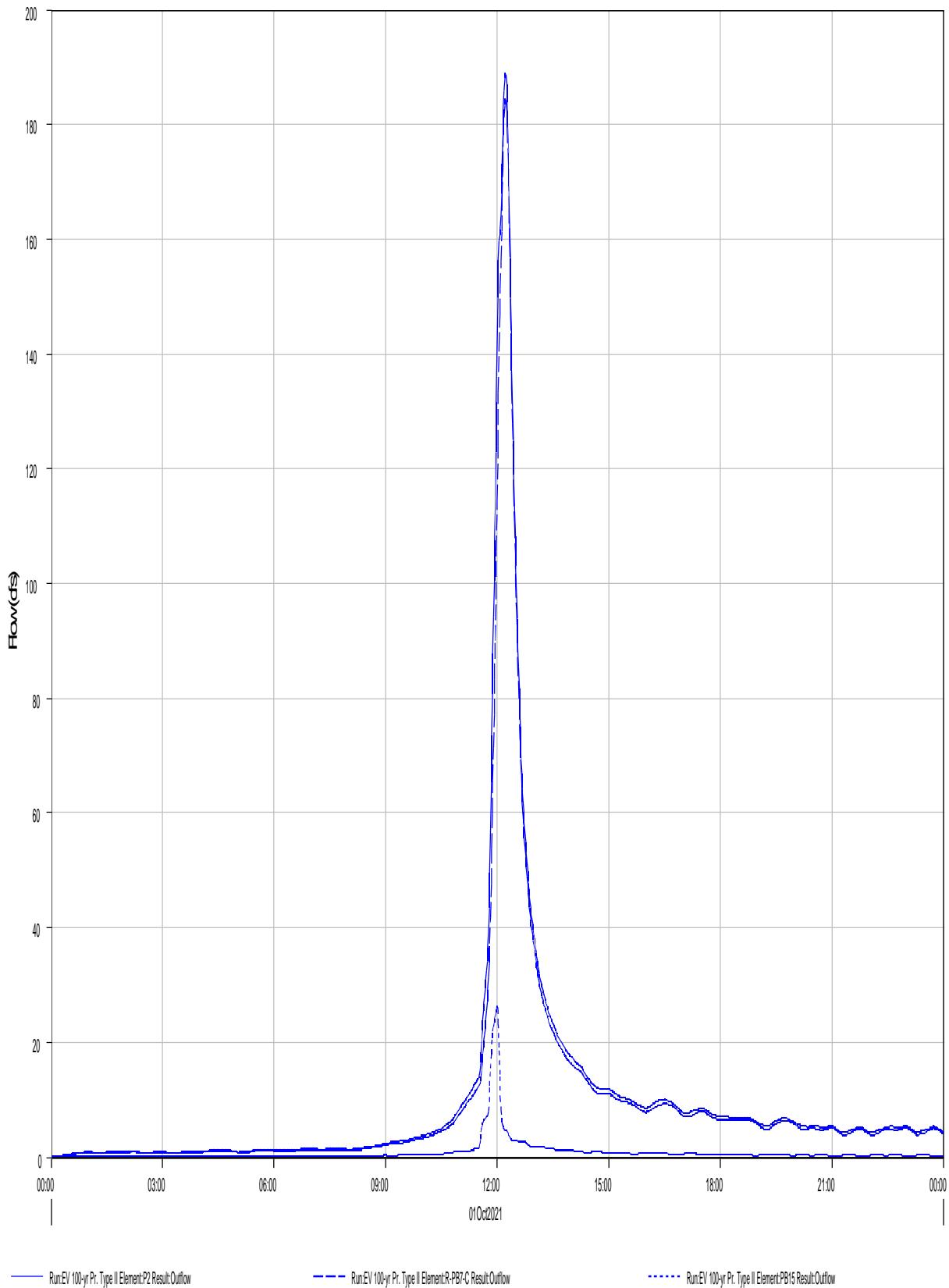
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Junction: P1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 26.4 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:09
Total Outflow : 2.4 (AC-FT)

Junction "P2" Results for Run "EV 100-yr Pr. Type II"



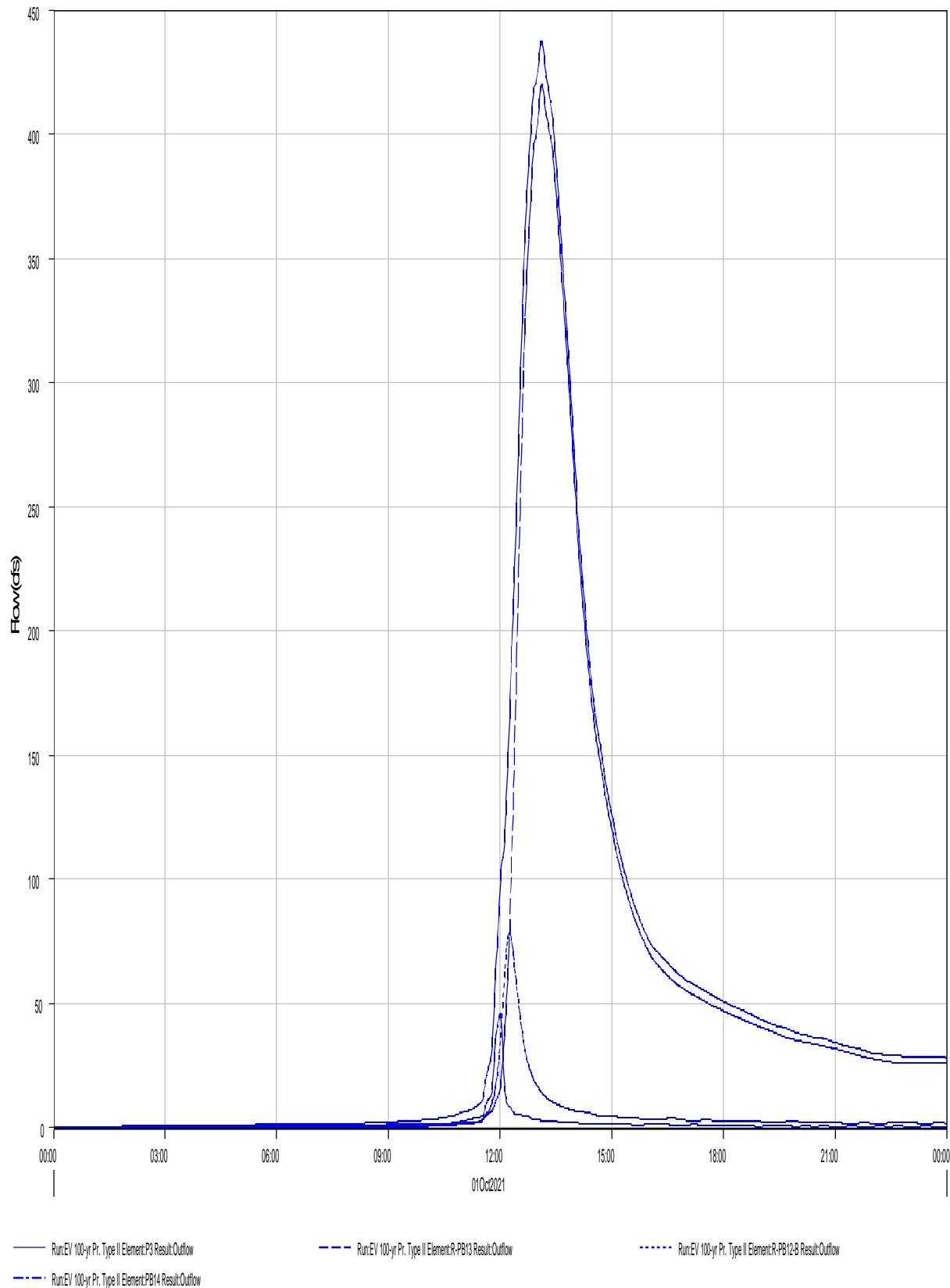
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Junction: P2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 189.1 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:13
Total Outflow : 21.4 (AC-FT)

Junction "P3" Results for Run "EV 100-yr Pr. Type II"



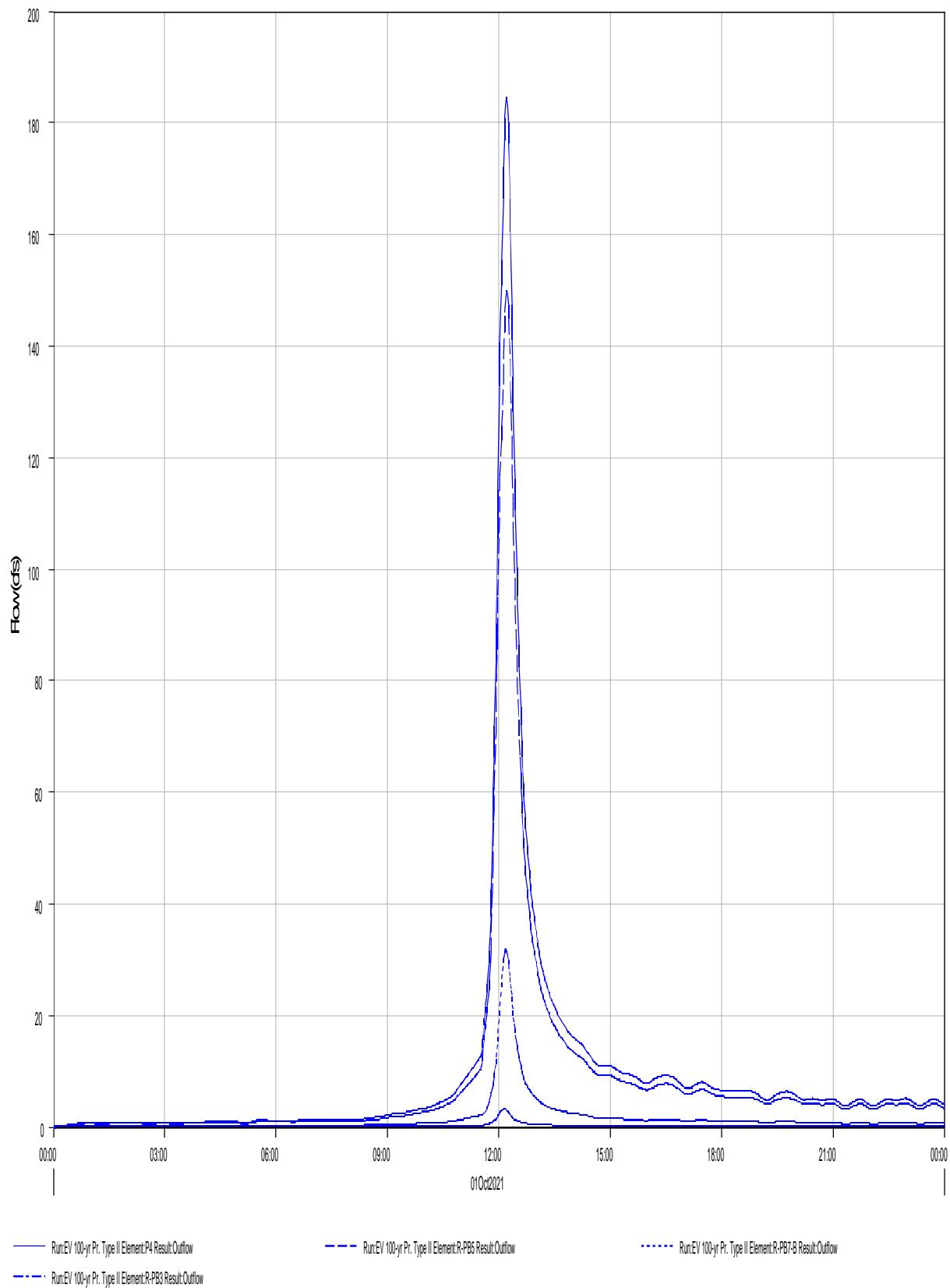
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Junction: P3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 437.7 (CFS) Date/Time of Peak Outflow : 01Oct2021, 13:07
Total Outflow : 107.9 (AC-FT)

Junction "P4" Results for Run "EV 100-yr Pr. Type II"



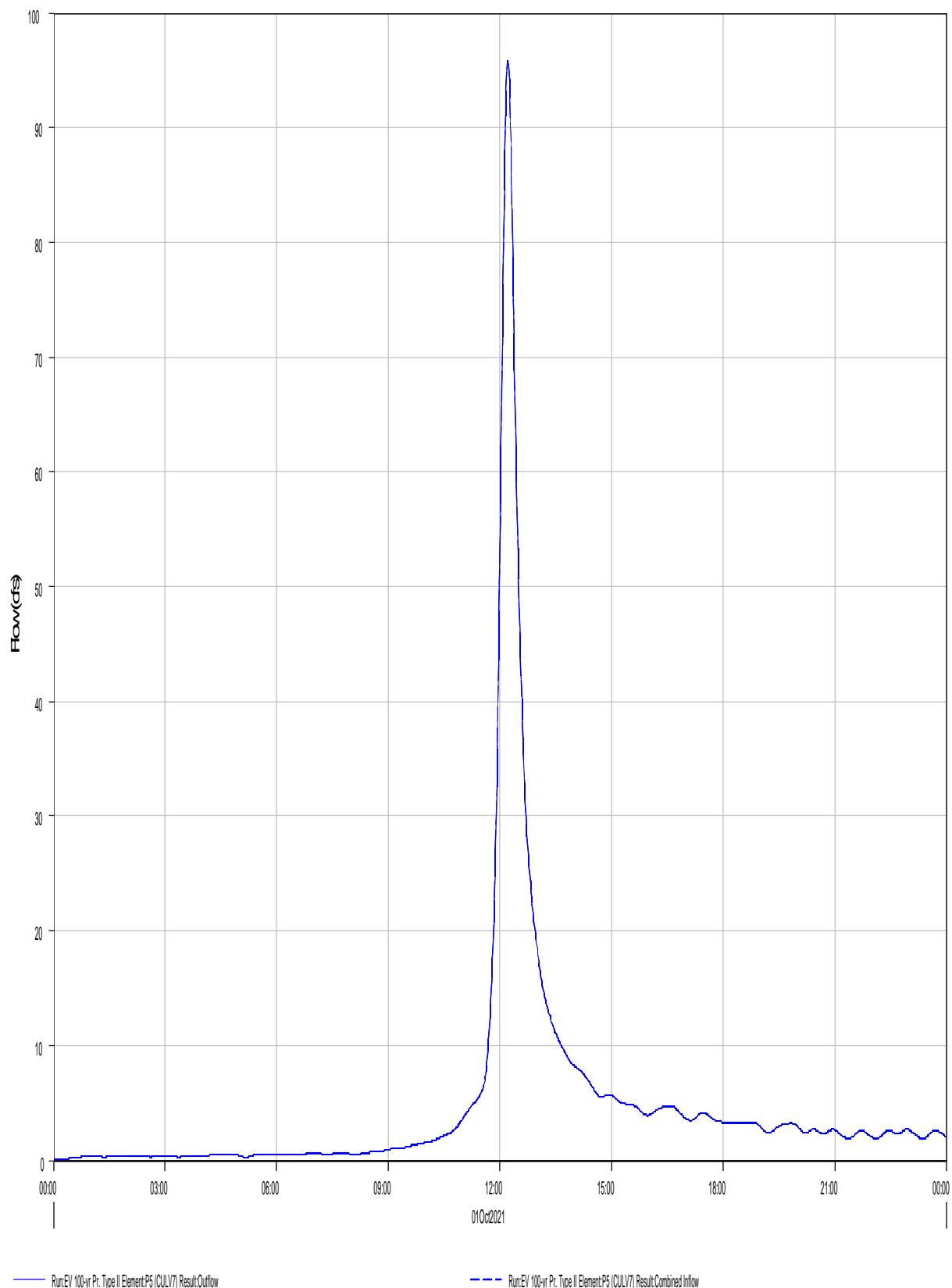
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Junction: P4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 184.6 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:12
Total Outflow : 19.8 (AC-FT)

Reach "P5 (CULV7)" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: P5 (CULV7)

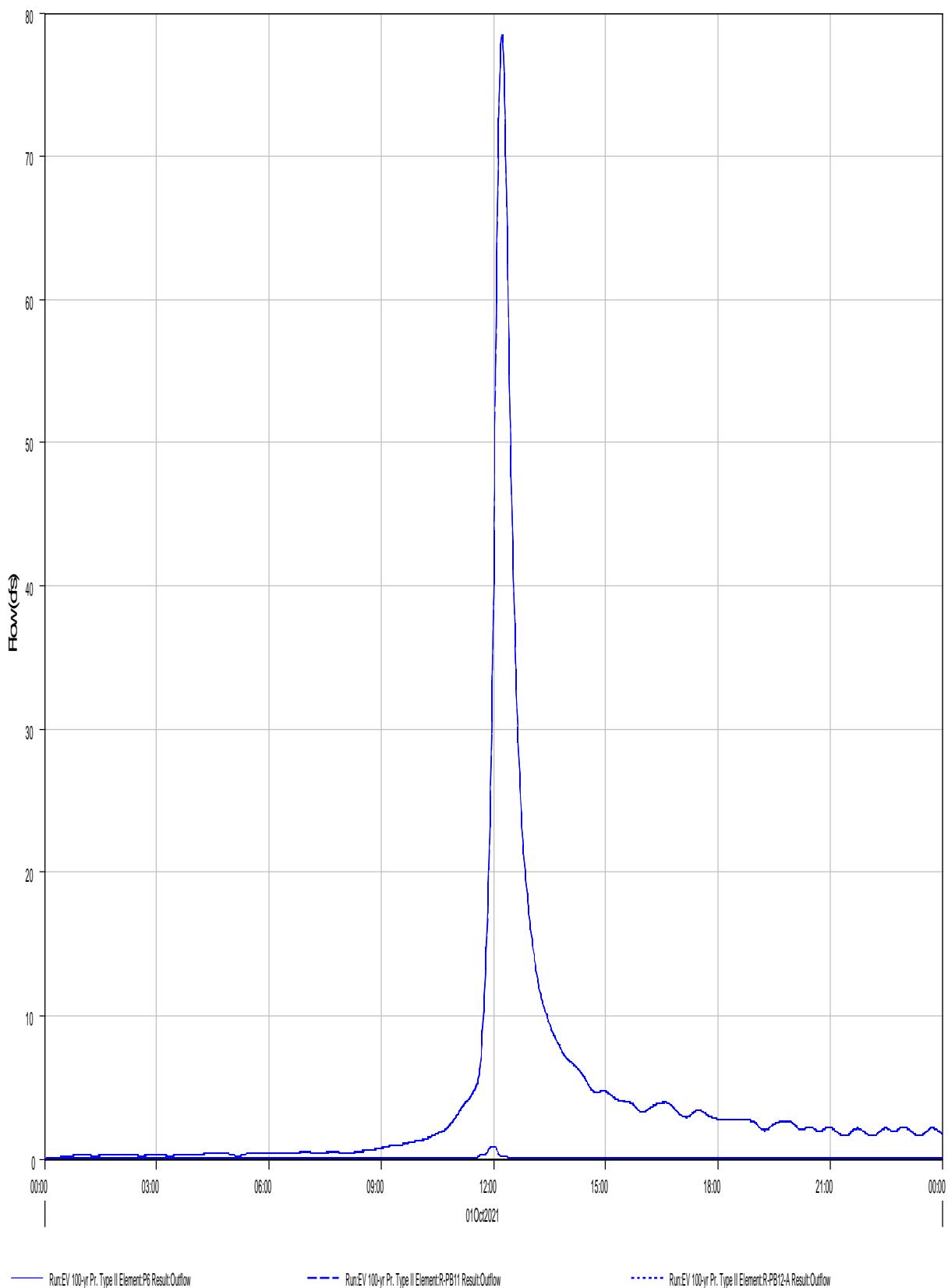
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	95.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	95.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	9.8 (AC-FT)	Total Outflow :	9.8 (AC-FT)

Junction "P6" Results for Run "EV 100-yr Pr. Type II"



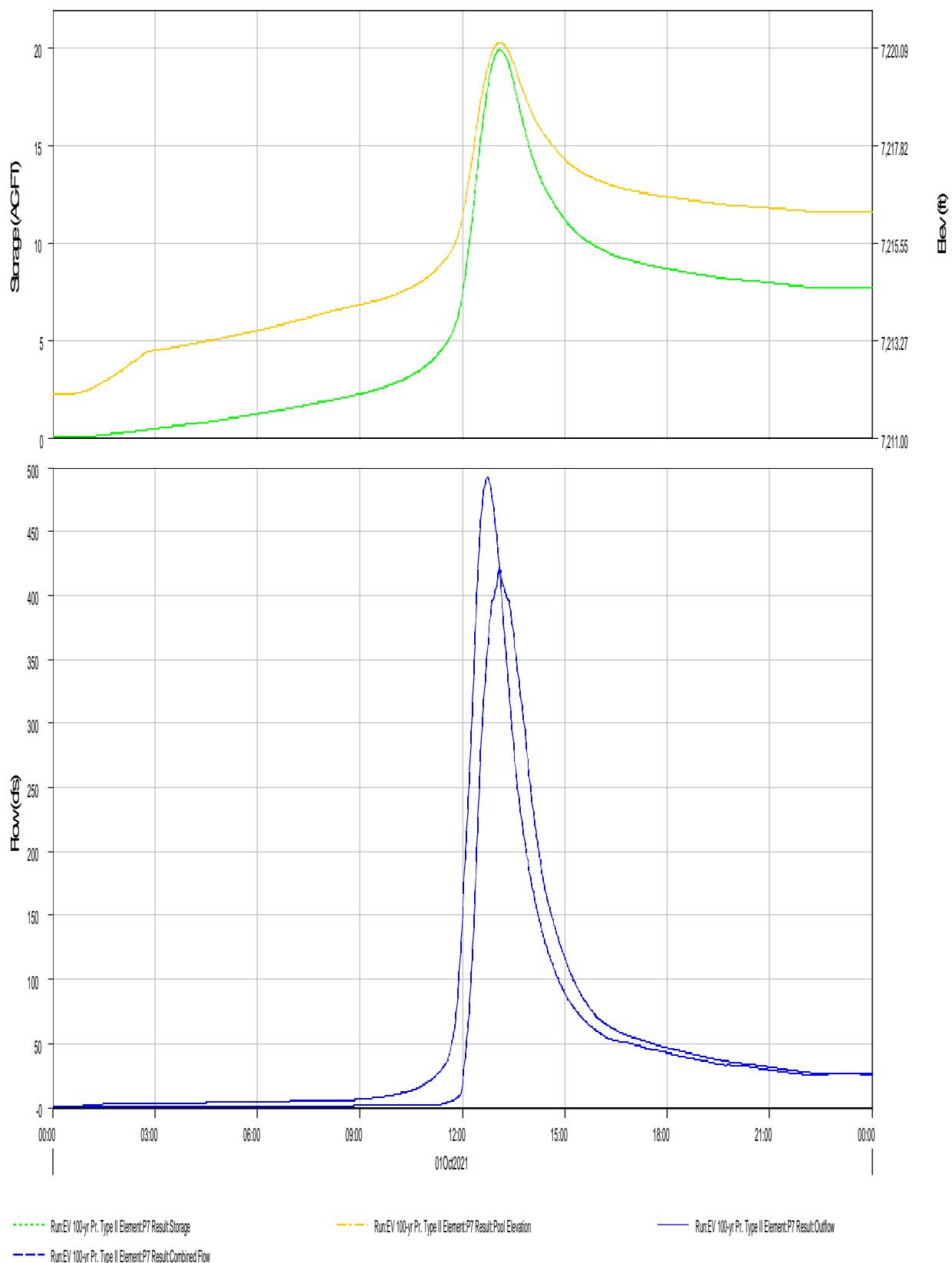
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Junction: P6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 78.5 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:14
Total Outflow : 8.2 (AC-FT)

Reservoir "P7" Results for Run "EV 100-yr Pr. Type II"



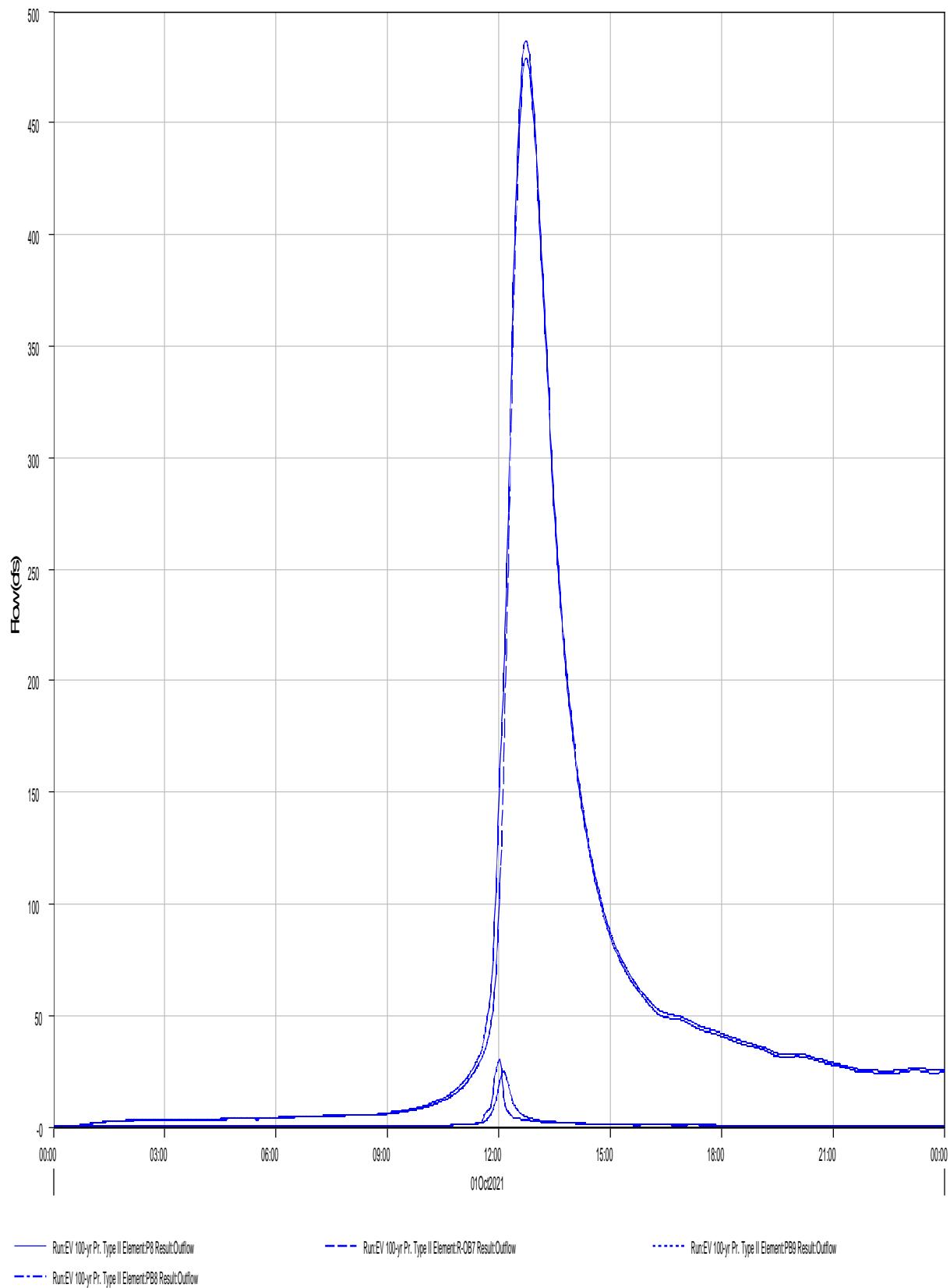
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reservoir: P7
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	491.6 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:44
Peak Outflow :	420.1 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:05
Total Inflow :	104.2 (AC-FT)	Peak Storage :	19.9 (AC-FT)
Total Outflow :	96.5 (AC-FT)	Peak Elevation :	7220.2 (FT)

Junction "P8" Results for Run "EV 100-yr Pr. Type II"



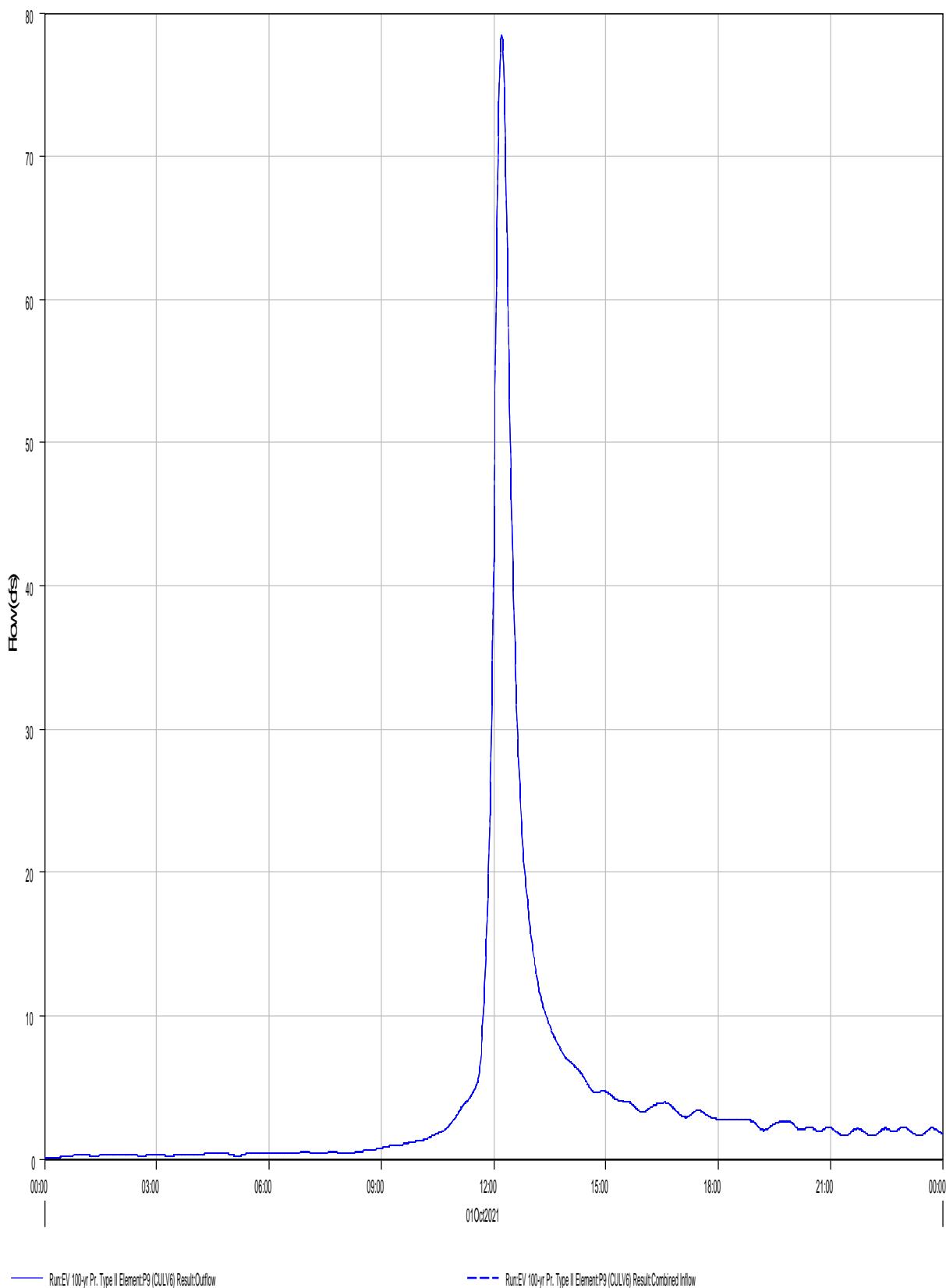
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Junction: P8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Outflow : 486.7 (CFS) Date/Time of Peak Outflow : 01Oct2021, 12:44
Total Outflow : 102.2 (AC-FT)

Reach "P9 (CULV6)" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: P9 (CULV6)

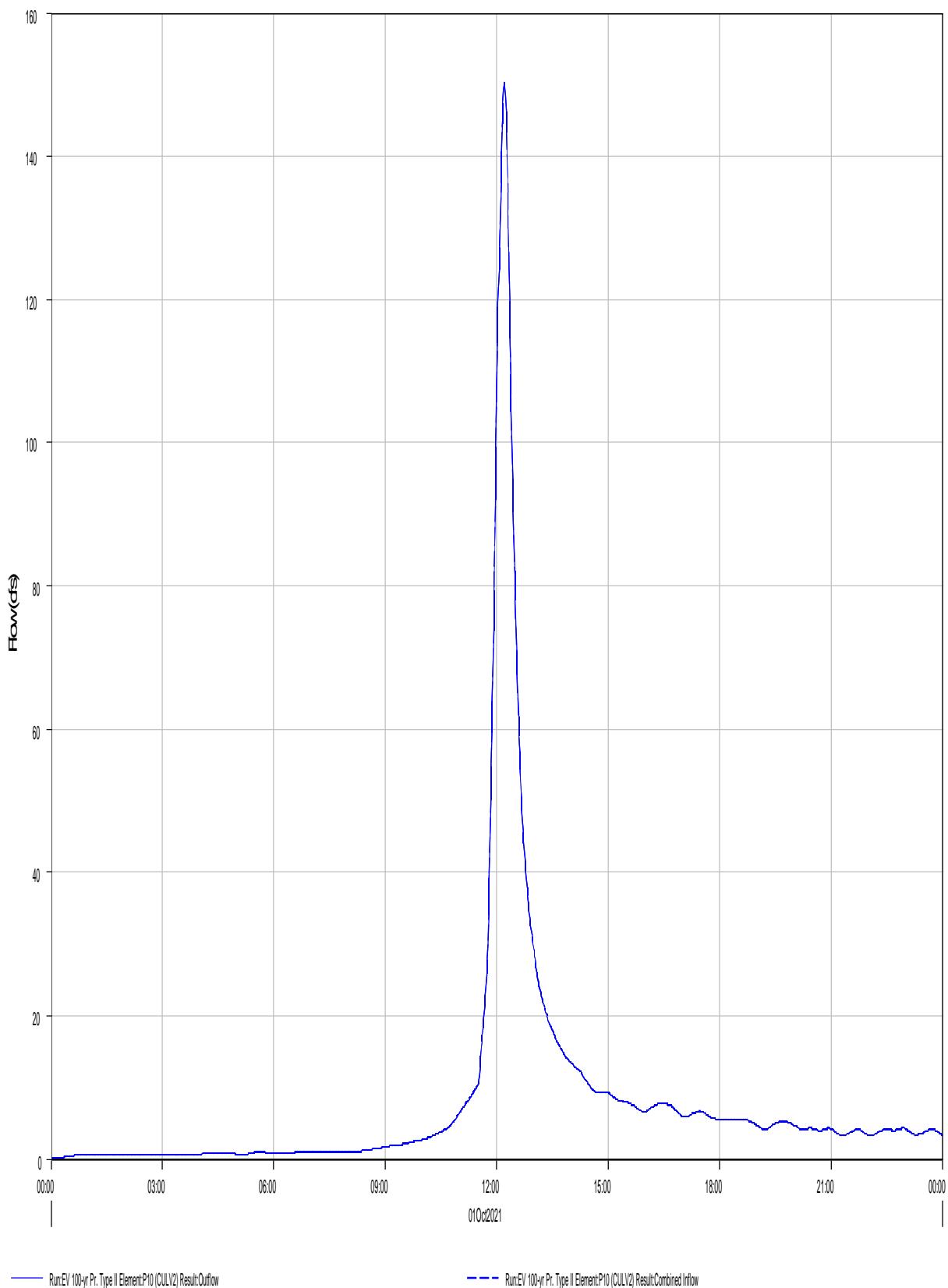
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	78.4 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	78.4 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	8.2 (AC-FT)	Total Outflow :	8.2 (AC-FT)

Reach "P10 (CULV2)" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision

Simulation Run: EV 100-yr Pr. Type II Reach: P10 (CULV2)

Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed

End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II

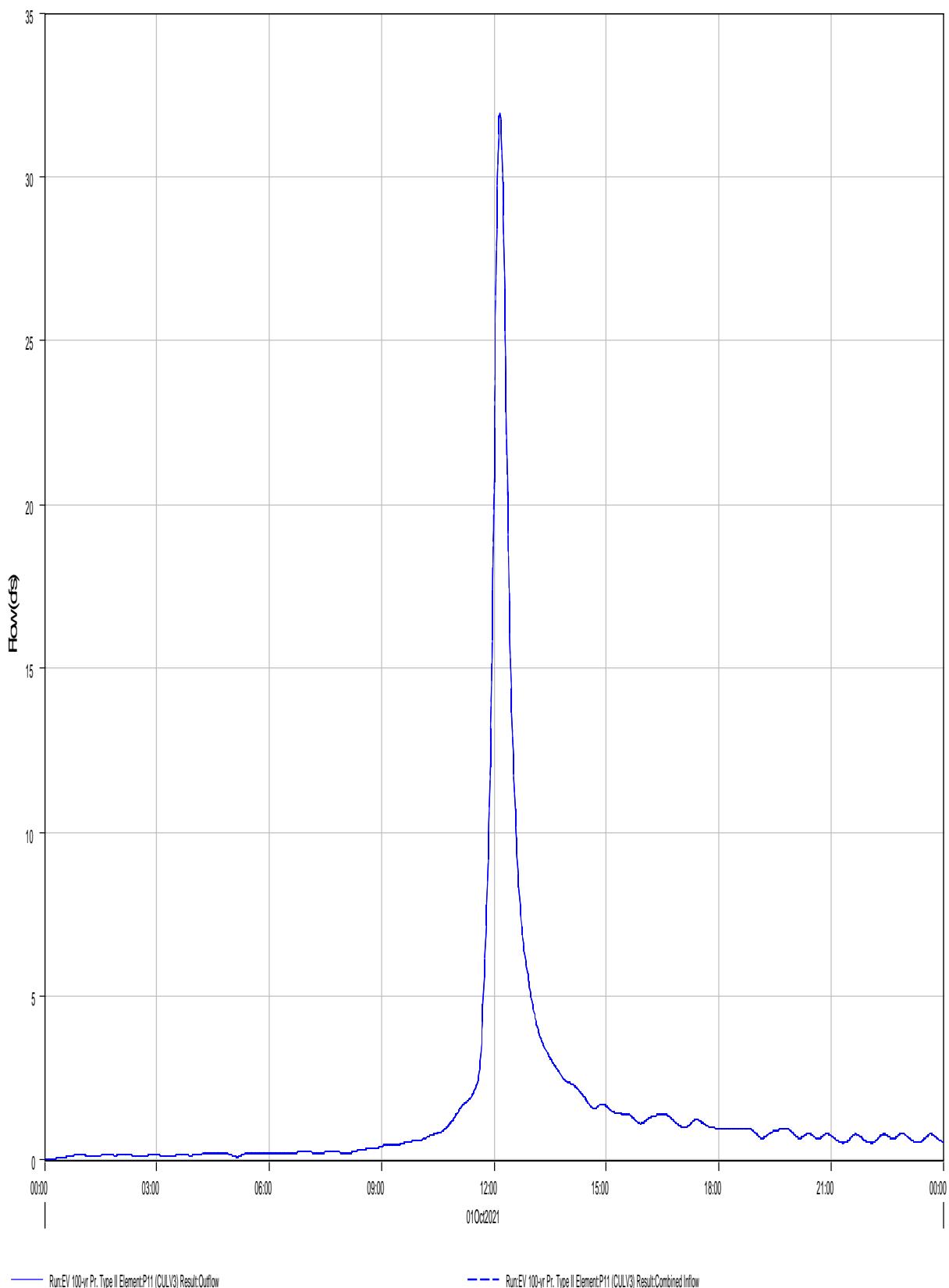
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	150.2 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:12
Peak Outflow :	150.1 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:12
Total Inflow :	16.4 (AC-FT)	Total Outflow :	16.4 (AC-FT)

Reach "P11 (CULV3)" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: P11 (CULV3)

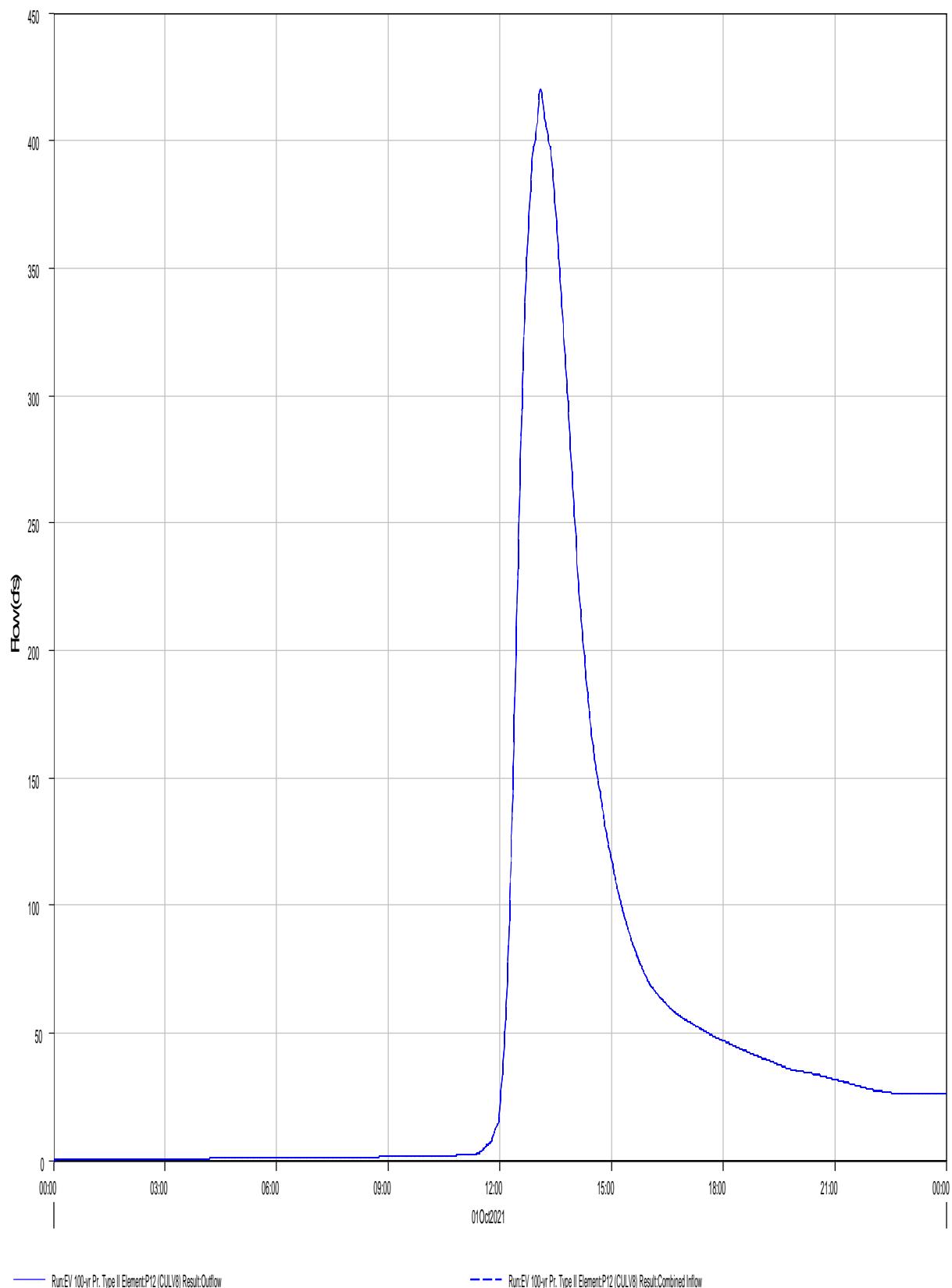
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	31.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:10
Peak Outflow :	31.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:10
Total Inflow :	3.1 (AC-FT)	Total Outflow :	3.1 (AC-FT)

Reach "P12 (CULV8)" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: P12 (CULV8)

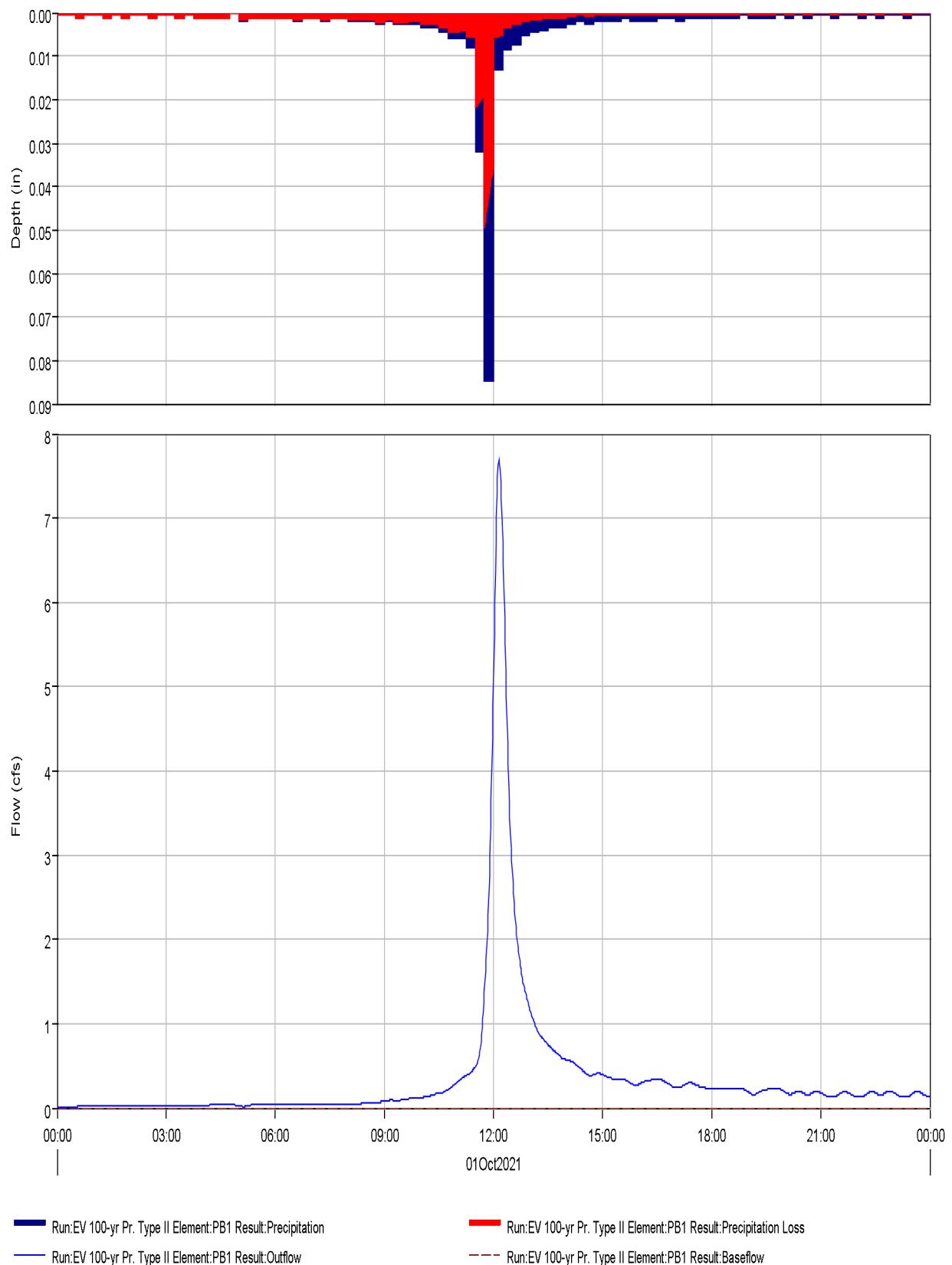
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	420.4 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 13:06
Peak Outflow :	420.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:06
Total Inflow :	96.8 (AC-FT)	Total Outflow :	96.8 (AC-FT)

Subbasin "PB1" Results for Run "EV 100-yr Pr. Type II"



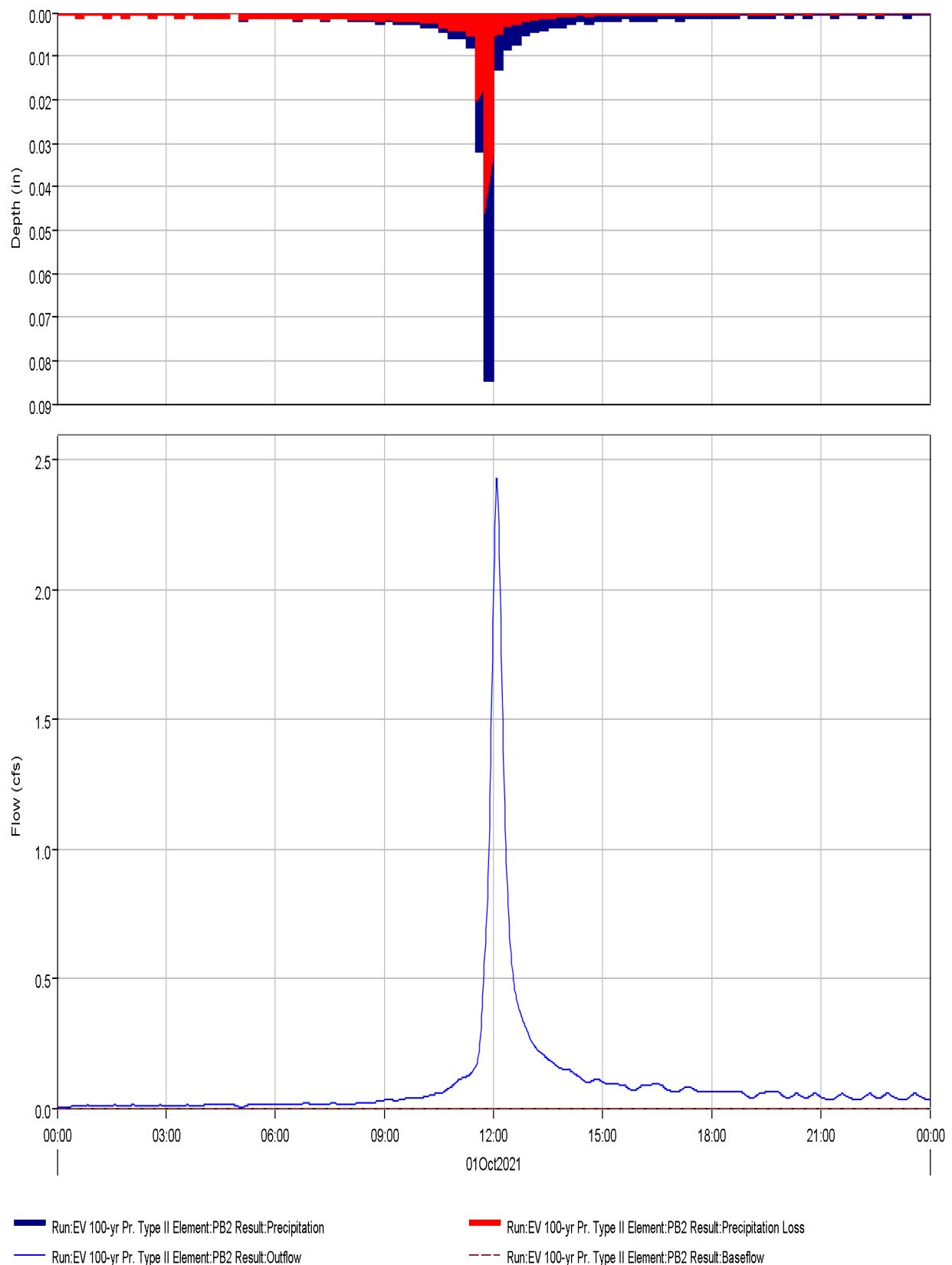
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	7.7 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:09
Total Precipitation :	1.6 (AC-FT)	Total Direct Runoff :	0.7 (AC-FT)
Total Loss :	0.9 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.7 (AC-FT)	Discharge :	0.7 (AC-FT)

Subbasin "PB2" Results for Run "EV 100-yr Pr. Type II"



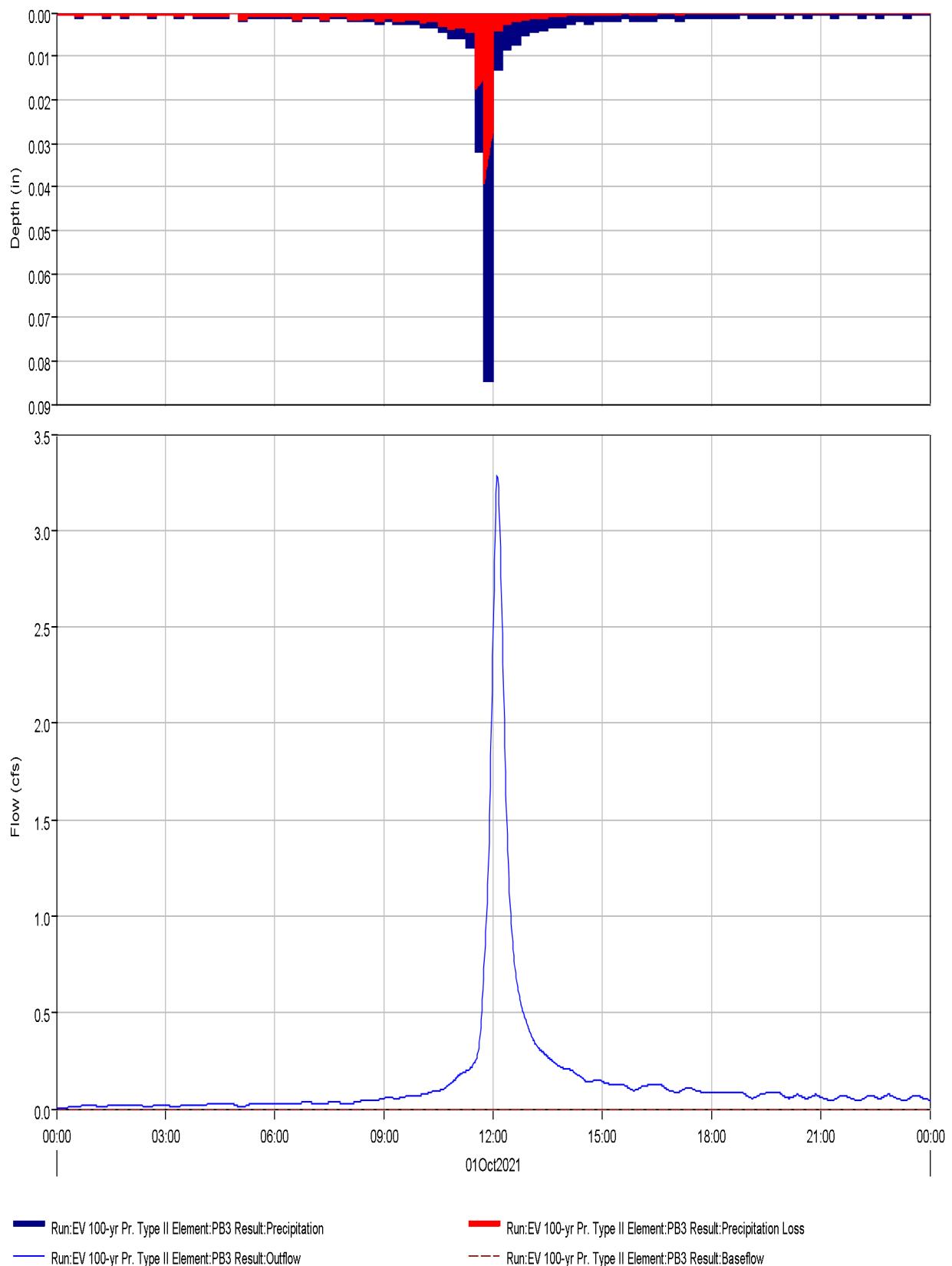
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	2.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:06
Total Precipitation :	0.4 (AC-FT)	Total Direct Runoff :	0.2 (AC-FT)
Total Loss :	0.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.2 (AC-FT)	Discharge :	0.2 (AC-FT)

Subbasin "PB3" Results for Run "EV 100-yr Pr. Type II"



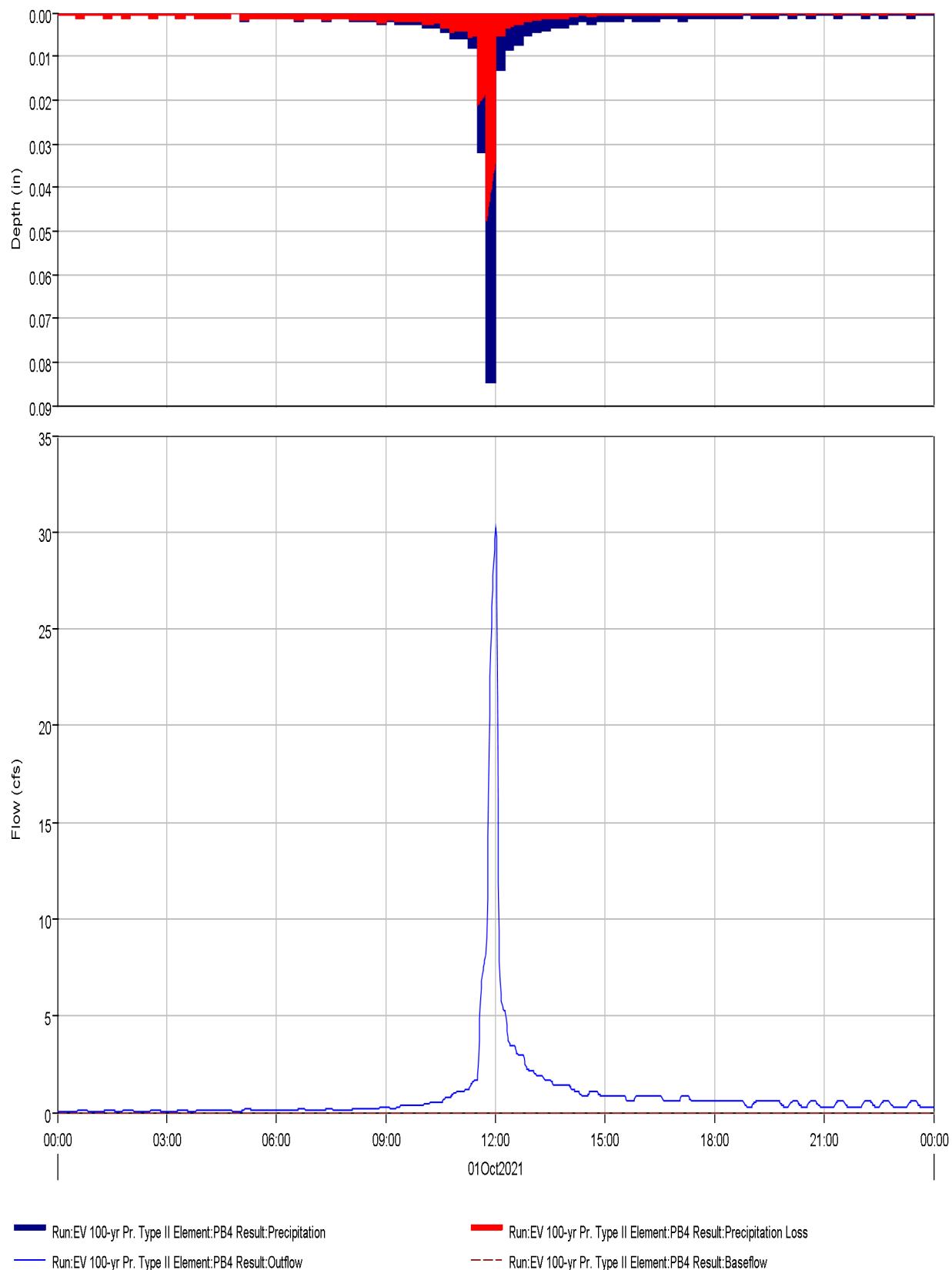
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	3.3 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:07
Total Precipitation :	0.5 (AC-FT)	Total Direct Runoff :	0.3 (AC-FT)
Total Loss :	0.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.3 (AC-FT)	Discharge :	0.3 (AC-FT)

Subbasin "PB4" Results for Run "EV 100-yr Pr. Type II"



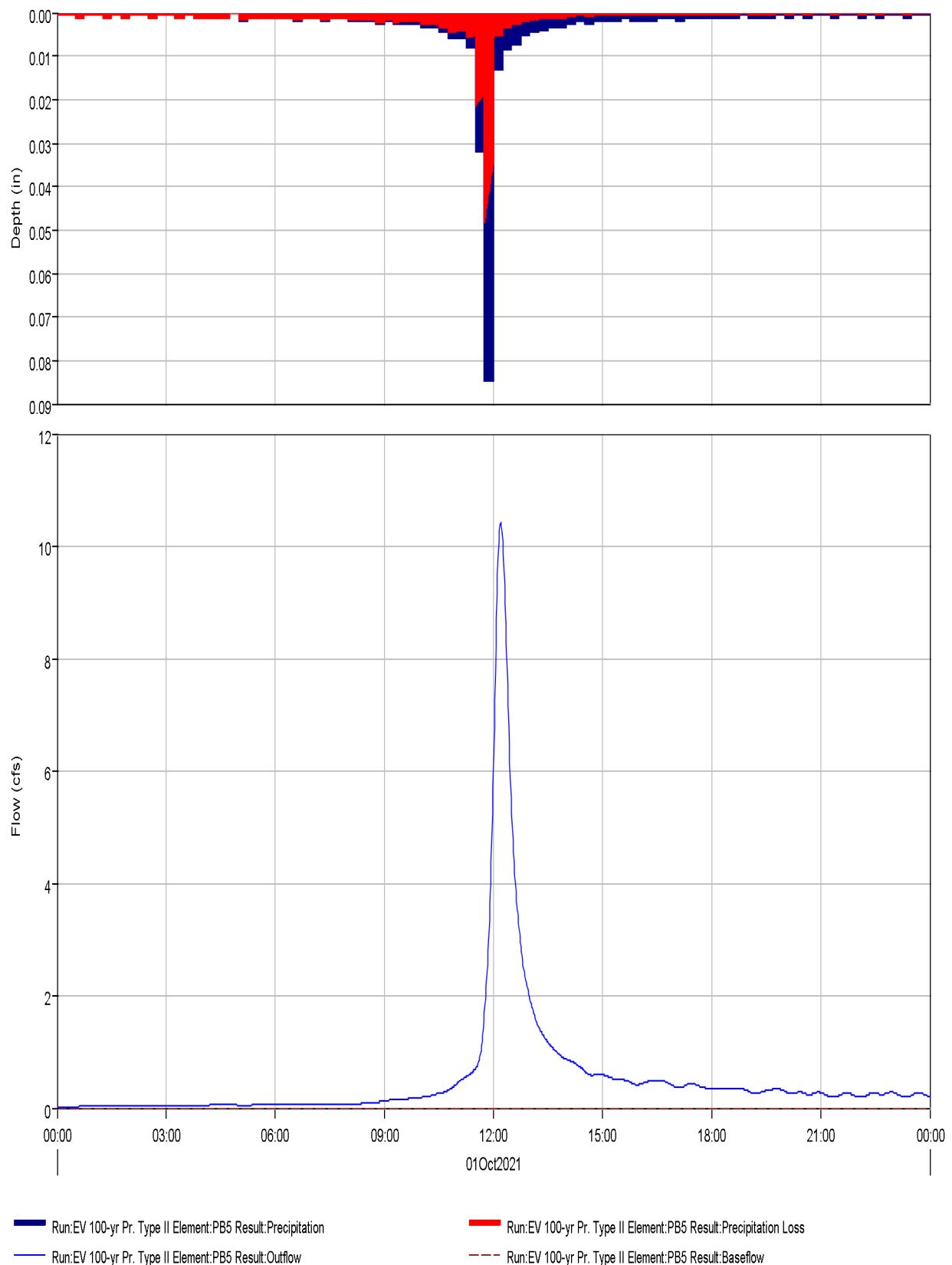
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB4
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	30.2 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	4.0 (AC-FT)	Total Direct Runoff :	1.9 (AC-FT)
Total Loss :	2.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.9 (AC-FT)	Discharge :	1.9 (AC-FT)

Subbasin "PB5" Results for Run "EV 100-yr Pr. Type II"



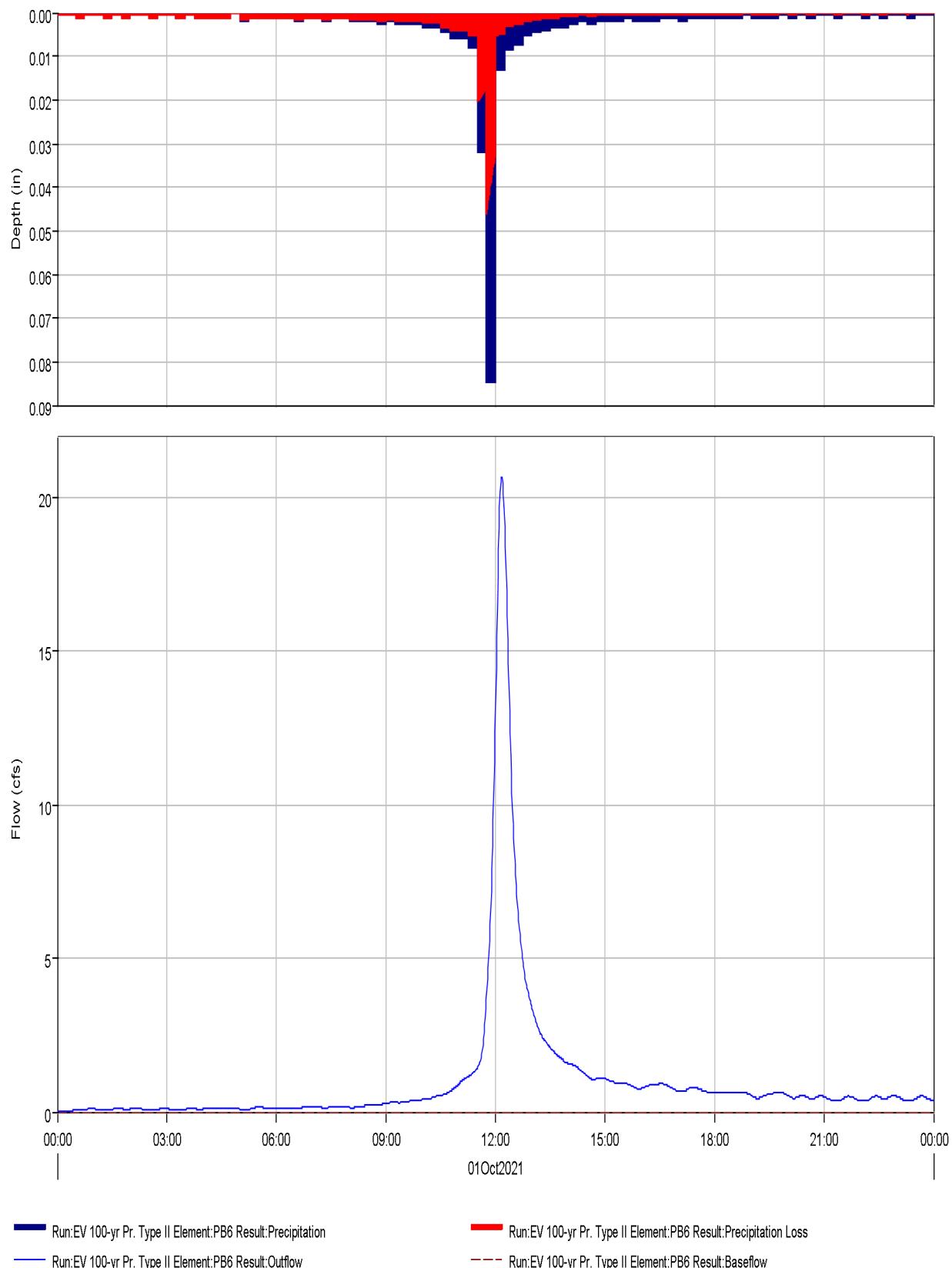
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB5
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	10.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:12
Total Precipitation :	2.4 (AC-FT)	Total Direct Runoff :	1.1 (AC-FT)
Total Loss :	1.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.1 (AC-FT)	Discharge :	1.1 (AC-FT)

Subbasin "PB6" Results for Run "EV 100-yr Pr. Type II"



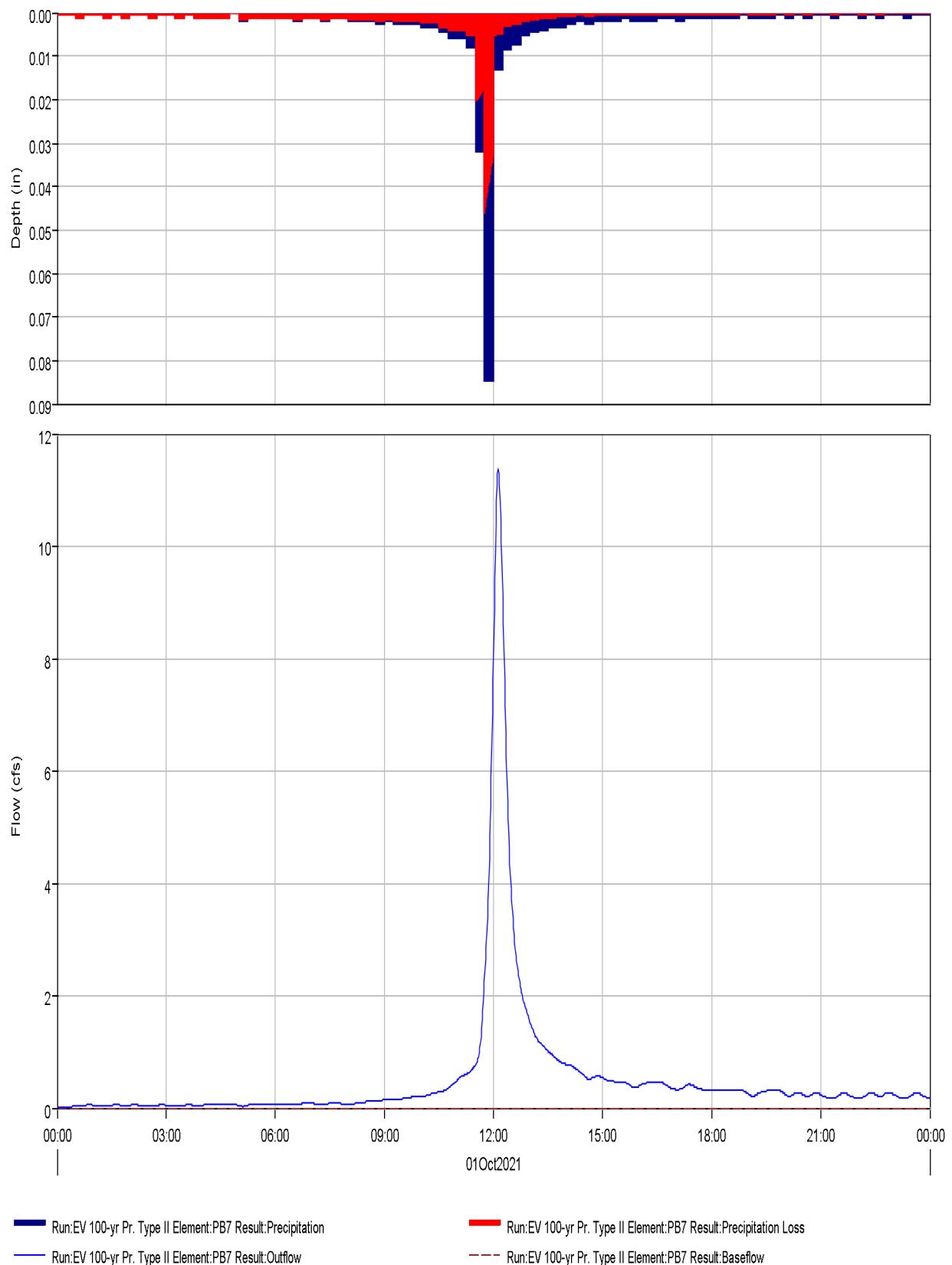
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB6
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	20.7 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	4.3 (AC-FT)	Total Direct Runoff :	2.0 (AC-FT)
Total Loss :	2.2 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.1 (AC-FT)	Discharge :	2.0 (AC-FT)

Subbasin "PB7" Results for Run "EV 100-yr Pr. Type II"



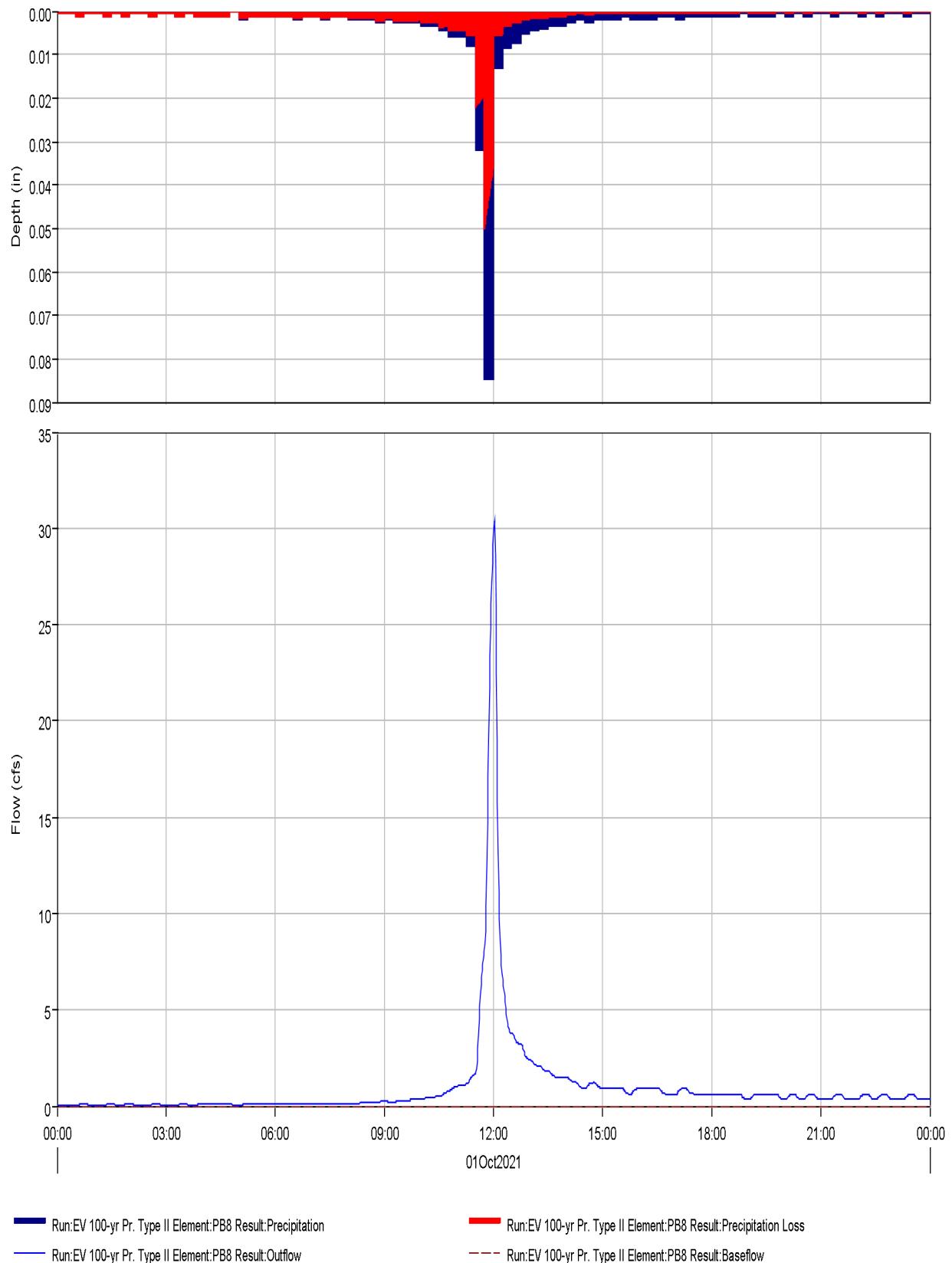
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB7
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	11.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:08
Total Precipitation :	2.1 (AC-FT)	Total Direct Runoff :	1.0 (AC-FT)
Total Loss :	1.1 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.0 (AC-FT)	Discharge :	1.0 (AC-FT)

Subbasin "PB8" Results for Run "EV 100-yr Pr. Type II"



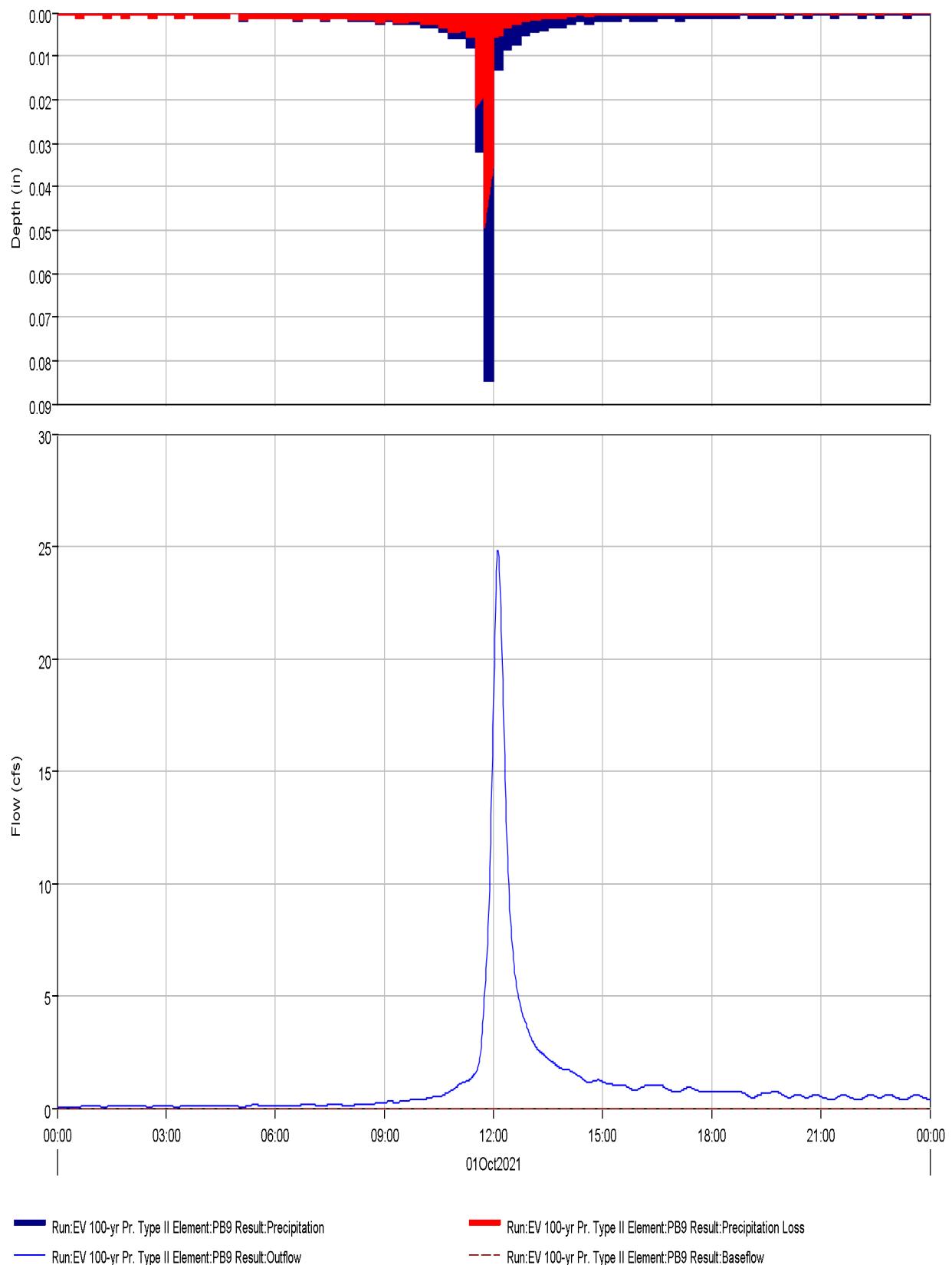
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	30.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:01
Total Precipitation :	4.5 (AC-FT)	Total Direct Runoff :	2.0 (AC-FT)
Total Loss :	2.5 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.0 (AC-FT)	Discharge :	2.0 (AC-FT)

Subbasin "PB9" Results for Run "EV 100-yr Pr. Type II"



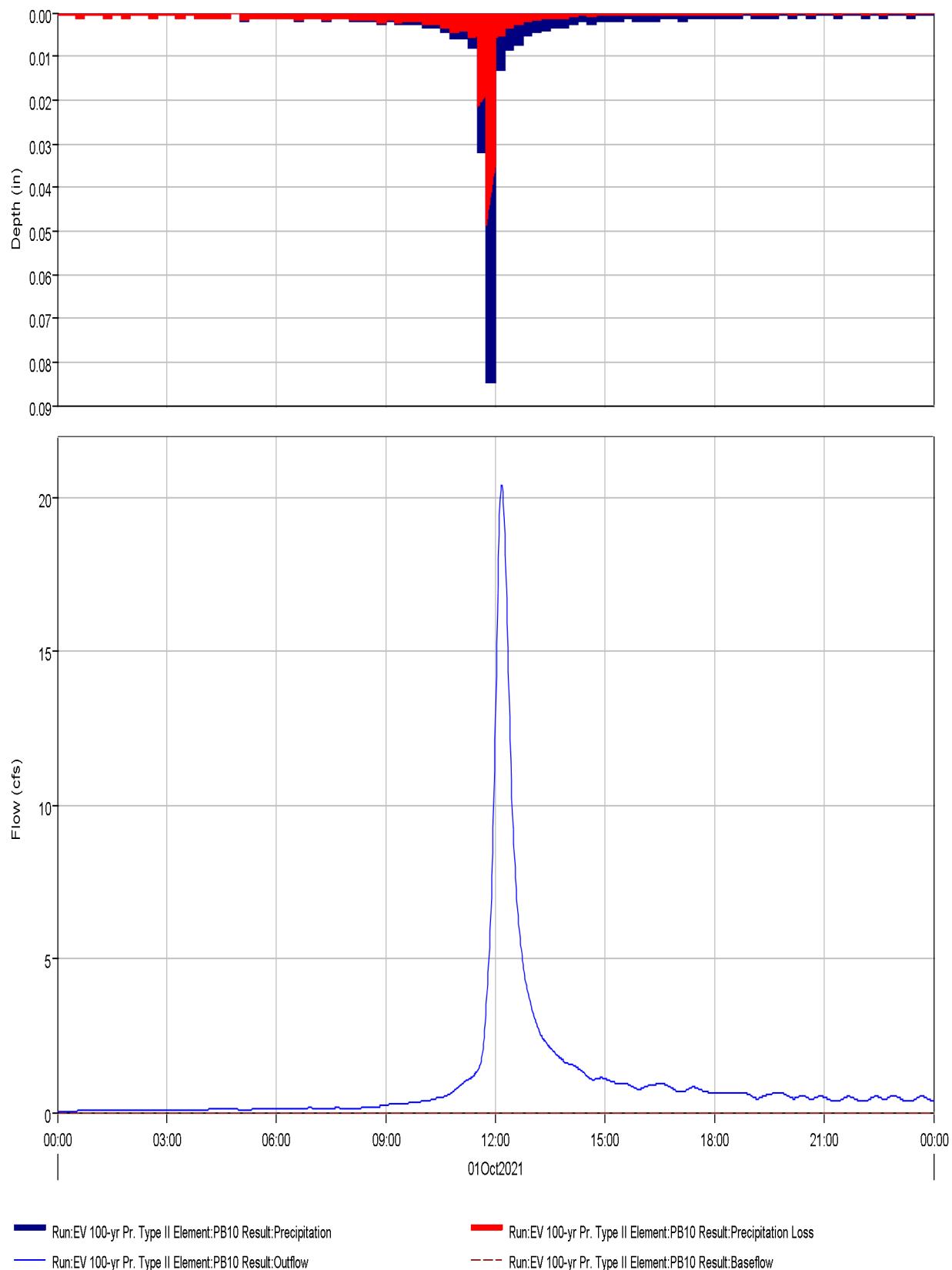
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB9
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	24.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:07
Total Precipitation :	4.9 (AC-FT)	Total Direct Runoff :	2.2 (AC-FT)
Total Loss :	2.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.2 (AC-FT)	Discharge :	2.2 (AC-FT)

Subbasin "PB10" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB10

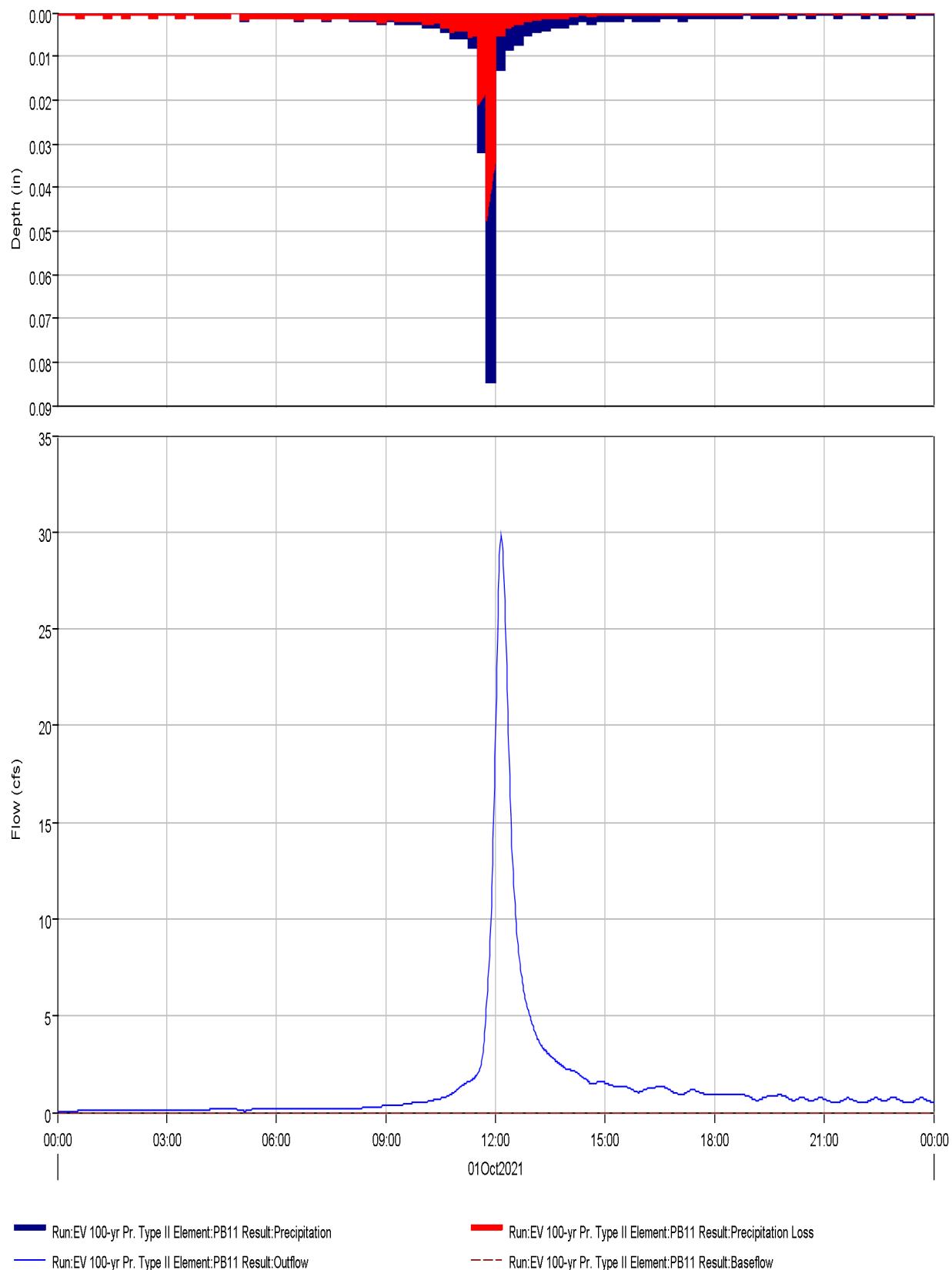
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	20.4 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	4.4 (AC-FT)	Total Direct Runoff :	2.0 (AC-FT)
Total Loss :	2.4 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.0 (AC-FT)	Discharge :	2.0 (AC-FT)

Subbasin "PB11" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB11

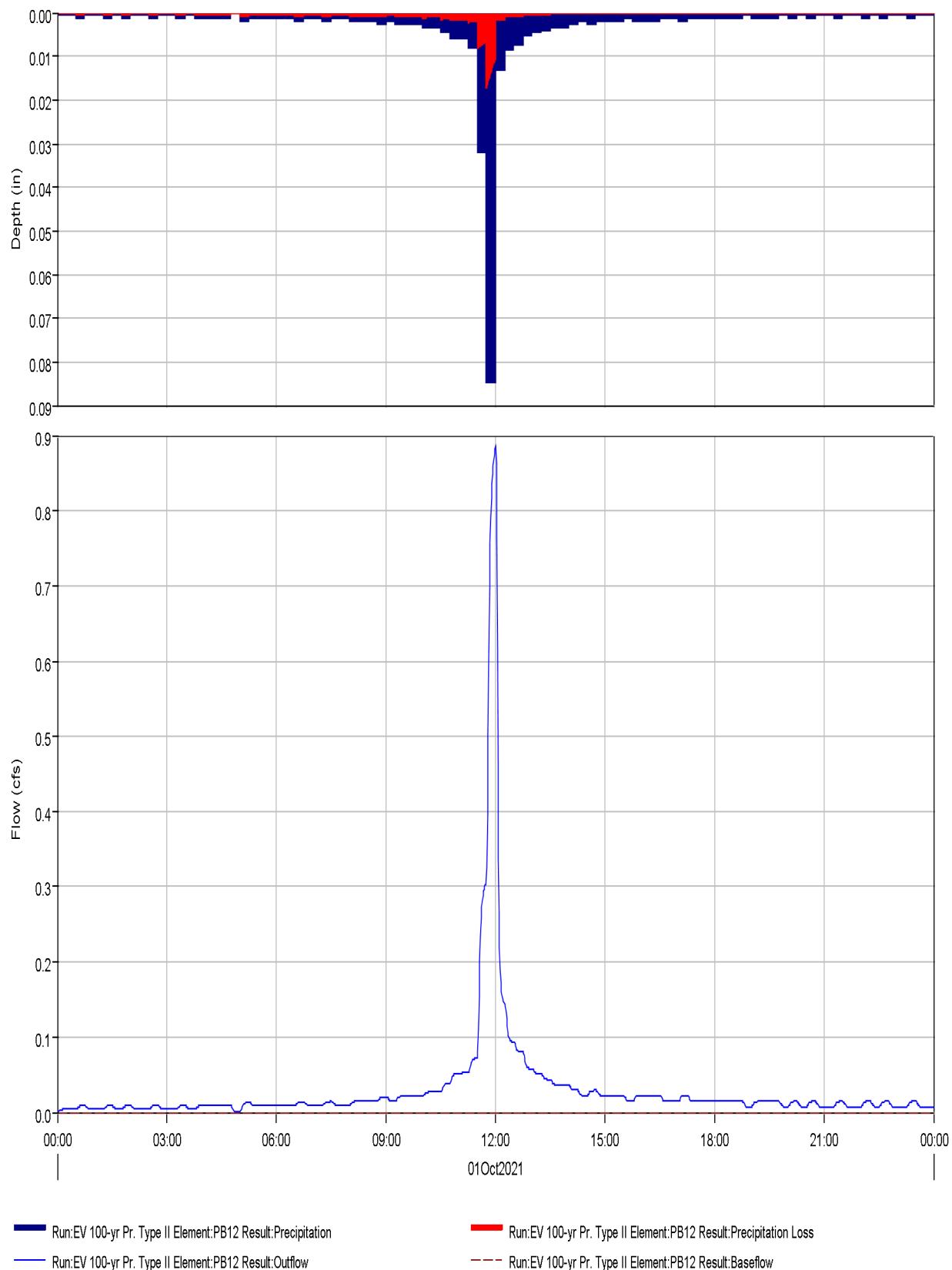
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	29.8 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:10
Total Precipitation :	6.2 (AC-FT)	Total Direct Runoff :	2.9 (AC-FT)
Total Loss :	3.3 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.9 (AC-FT)	Discharge :	2.9 (AC-FT)

Subbasin "PB12" Results for Run "EV 100-yr Pr. Type II"



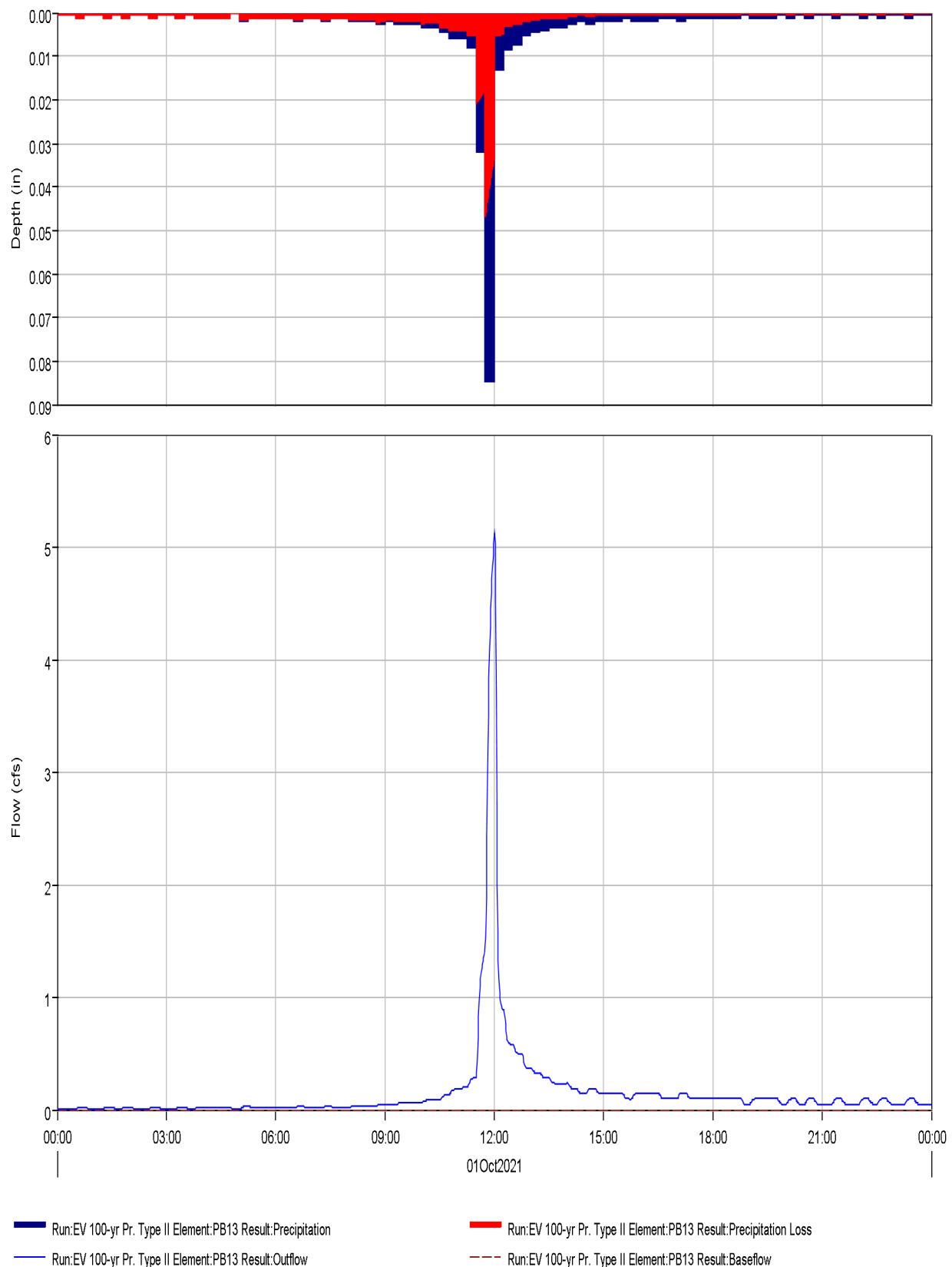
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB12
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	0.9 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	0.1 (AC-FT)	Total Direct Runoff :	0.1 (AC-FT)
Total Loss :	0.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.1 (AC-FT)	Discharge :	0.1 (AC-FT)

Subbasin "PB13" Results for Run "EV 100-yr Pr. Type II"



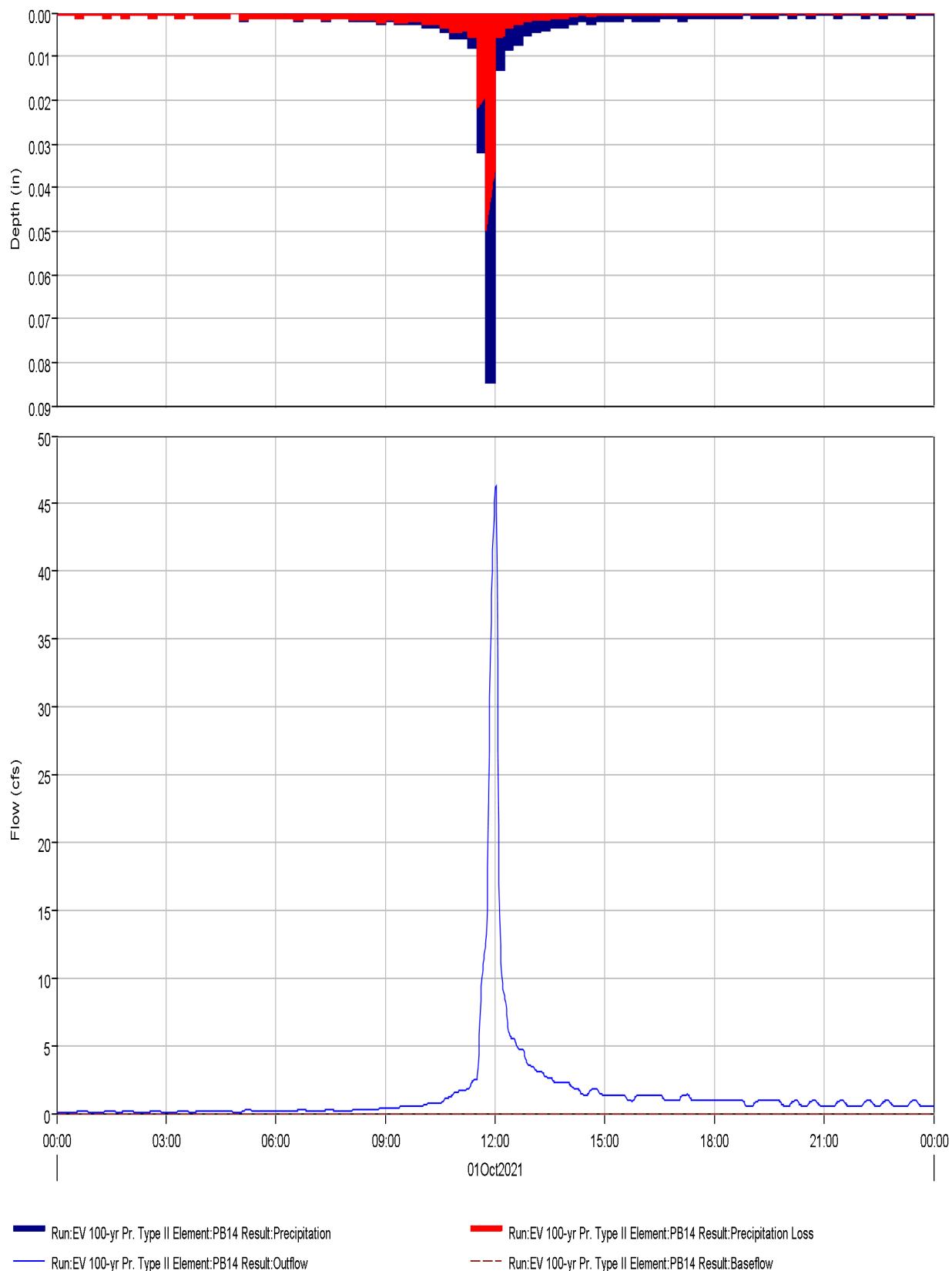
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB13
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	5.1 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	0.7 (AC-FT)	Total Direct Runoff :	0.3 (AC-FT)
Total Loss :	0.4 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	0.3 (AC-FT)	Discharge :	0.3 (AC-FT)

Subbasin "PB14" Results for Run "EV 100-yr Pr. Type II"



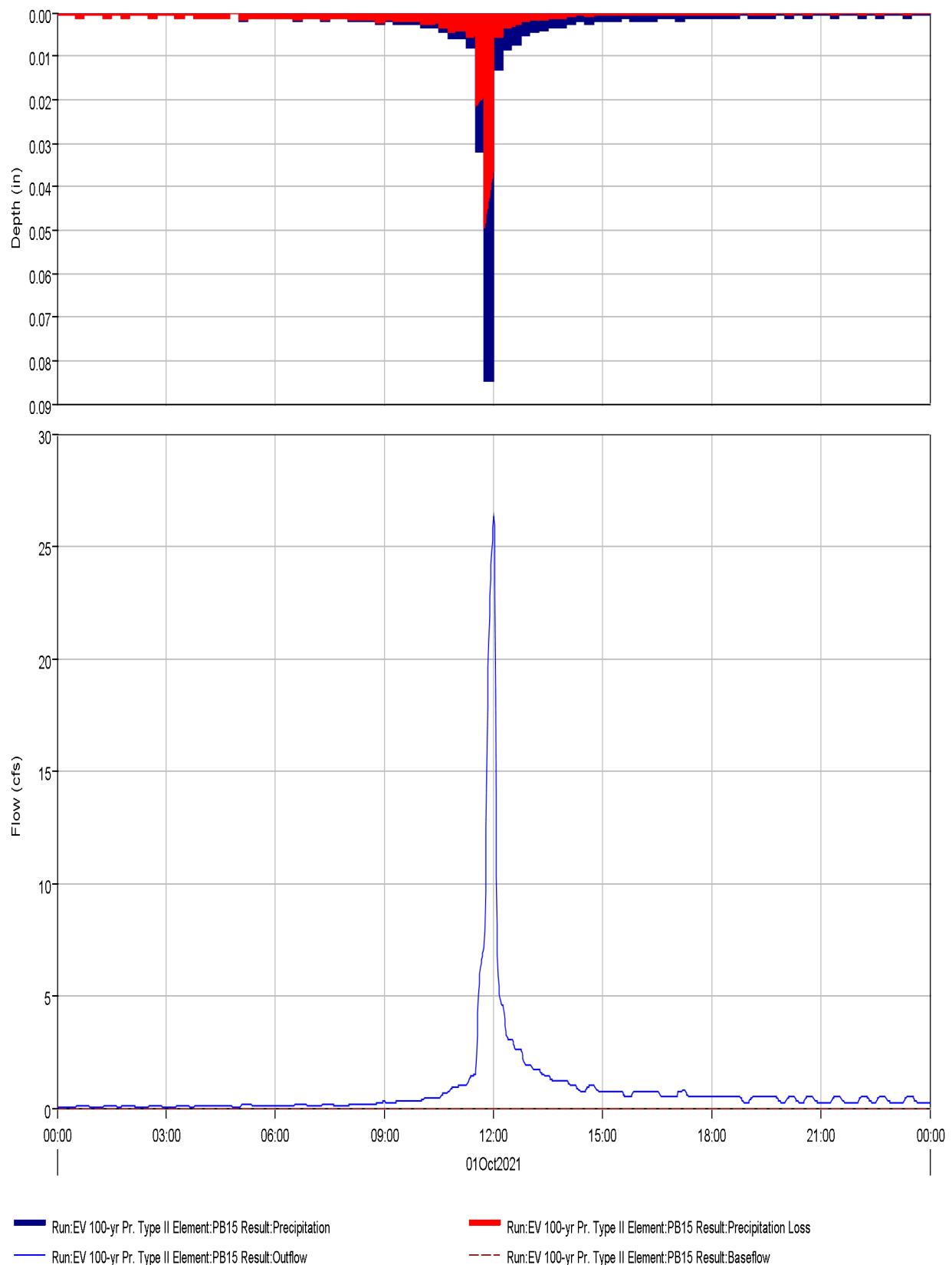
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB14
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	46.3 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:01
Total Precipitation :	6.6 (AC-FT)	Total Direct Runoff :	2.9 (AC-FT)
Total Loss :	3.7 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	2.9 (AC-FT)	Discharge :	2.9 (AC-FT)

Subbasin "PB15" Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Subbasin: PB15

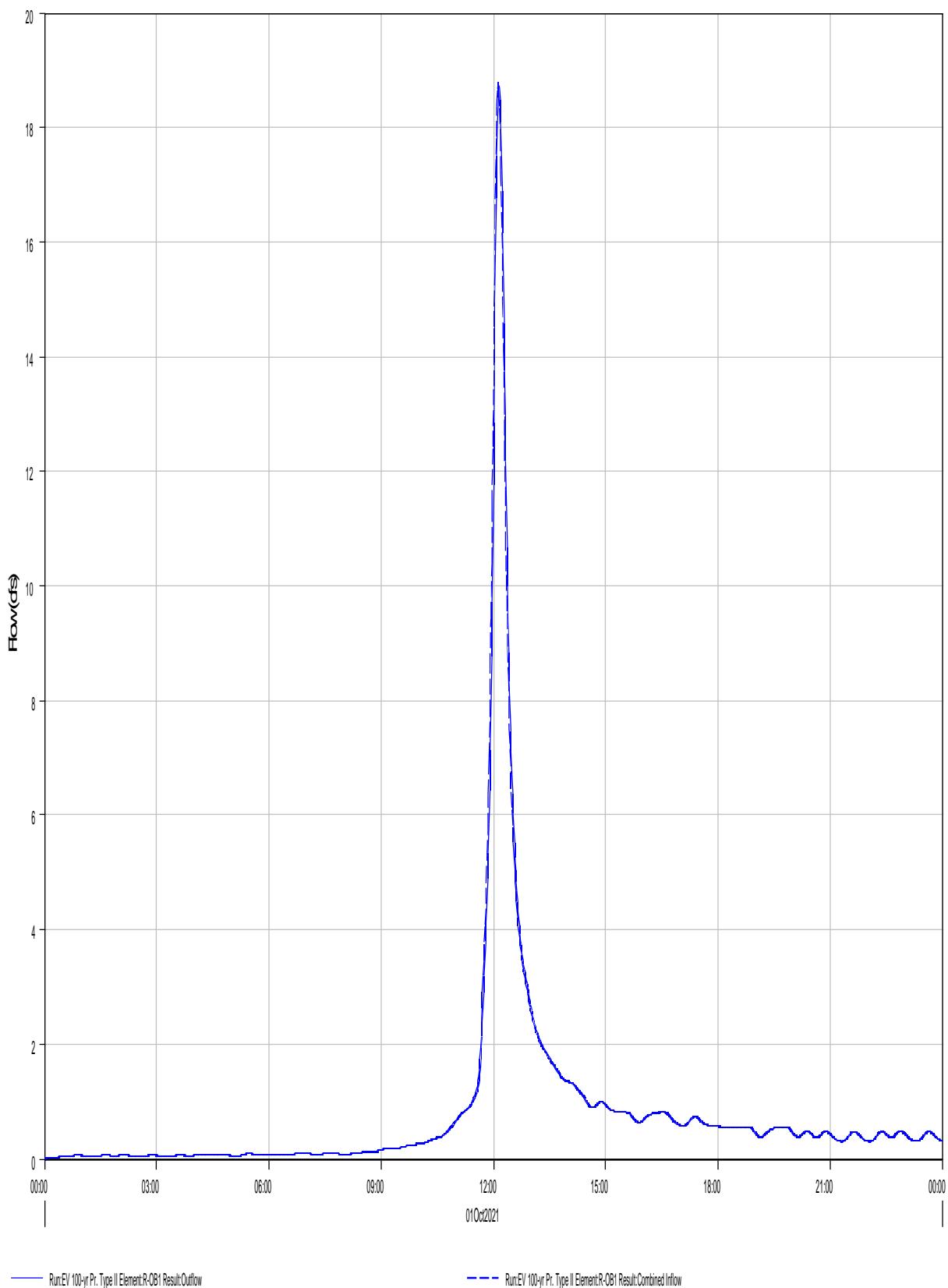
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Discharge :	26.3 (CFS)	Date/Time of Peak Discharge :	01Oct2021, 12:00
Total Precipitation :	3.7 (AC-FT)	Total Direct Runoff :	1.7 (AC-FT)
Total Loss :	2.0 (AC-FT)	Total Baseflow :	0.0 (AC-FT)
Total Excess :	1.7 (AC-FT)	Discharge :	1.7 (AC-FT)

Reach "R-OB1" Results for Run "EV 100-yr Pr. Type II"



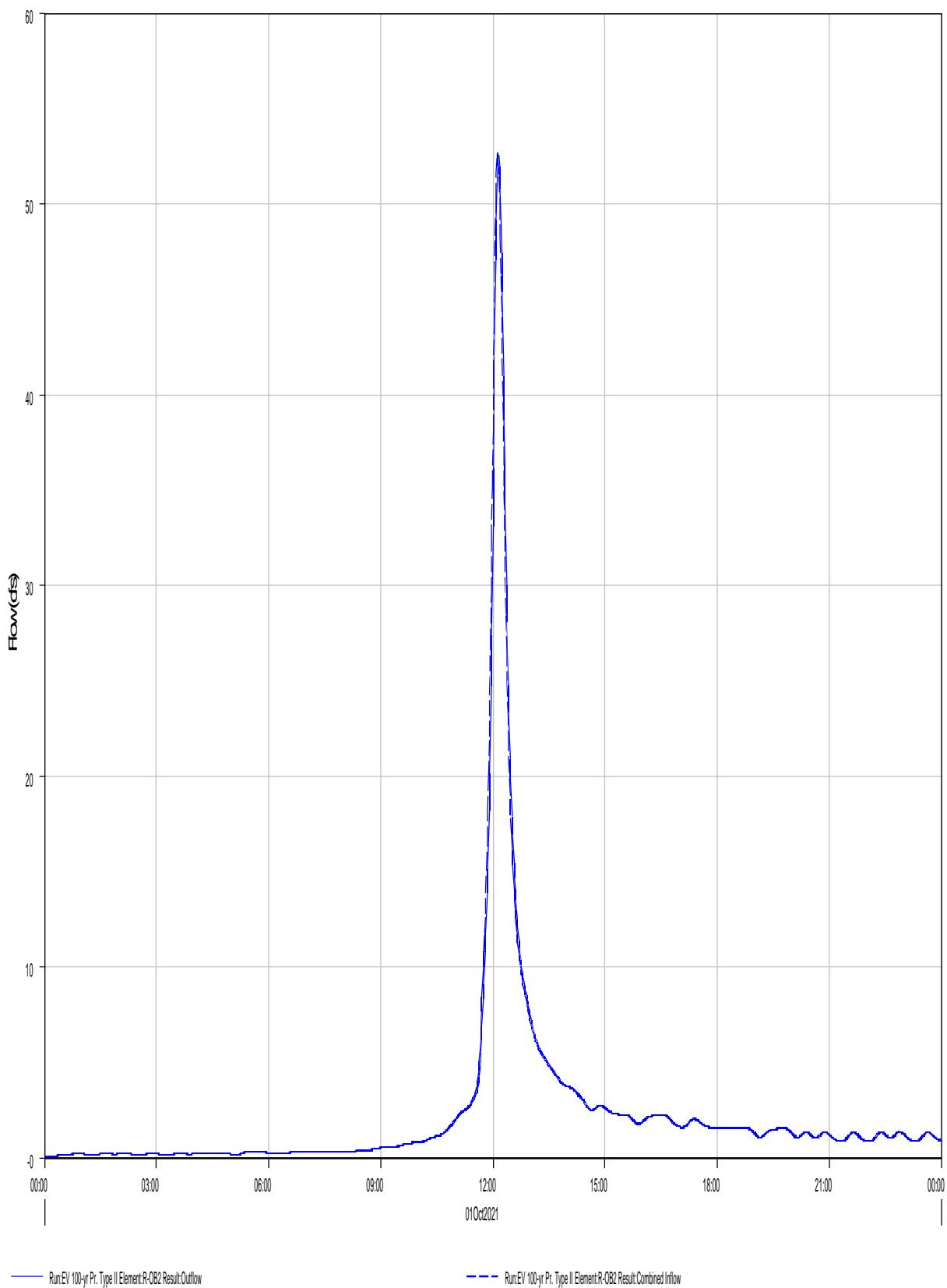
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-OB1
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	18.8 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	18.7 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:09
Total Inflow :	1.7 (AC-FT)	Total Outflow :	1.7 (AC-FT)

Reach "R-OB2" Results for Run "EV 100-yr Pr. Type II"



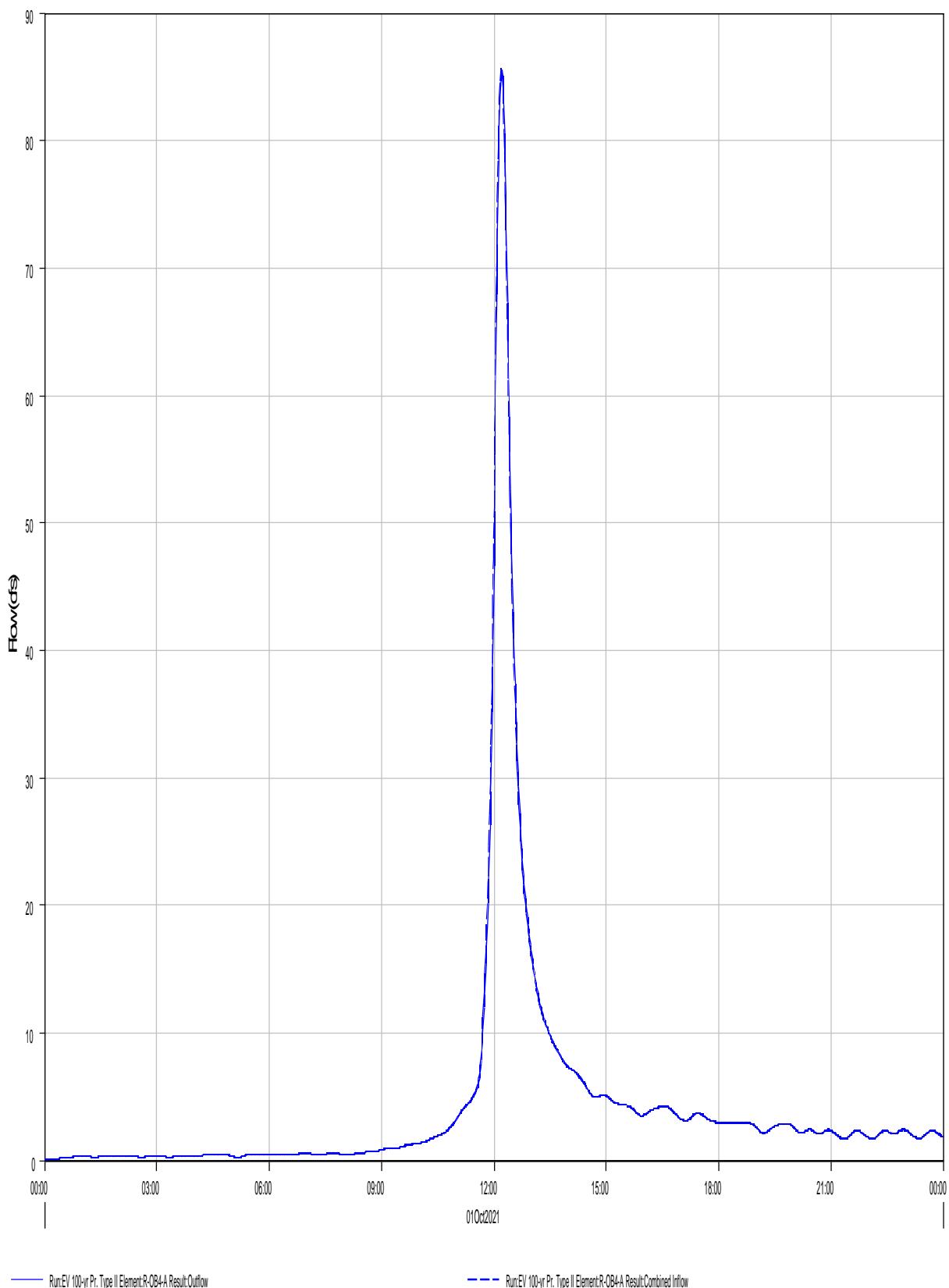
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-OB2
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	52.7 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	52.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:09
Total Inflow :	4.7 (AC-FT)	Total Outflow :	4.7 (AC-FT)

Reach 'R-QB4-A' Results for Run "EV 100-yr Pr. Type II"



— Run EV 100-yr Pr. Type II Element:R-QB4-A Result:Outflow

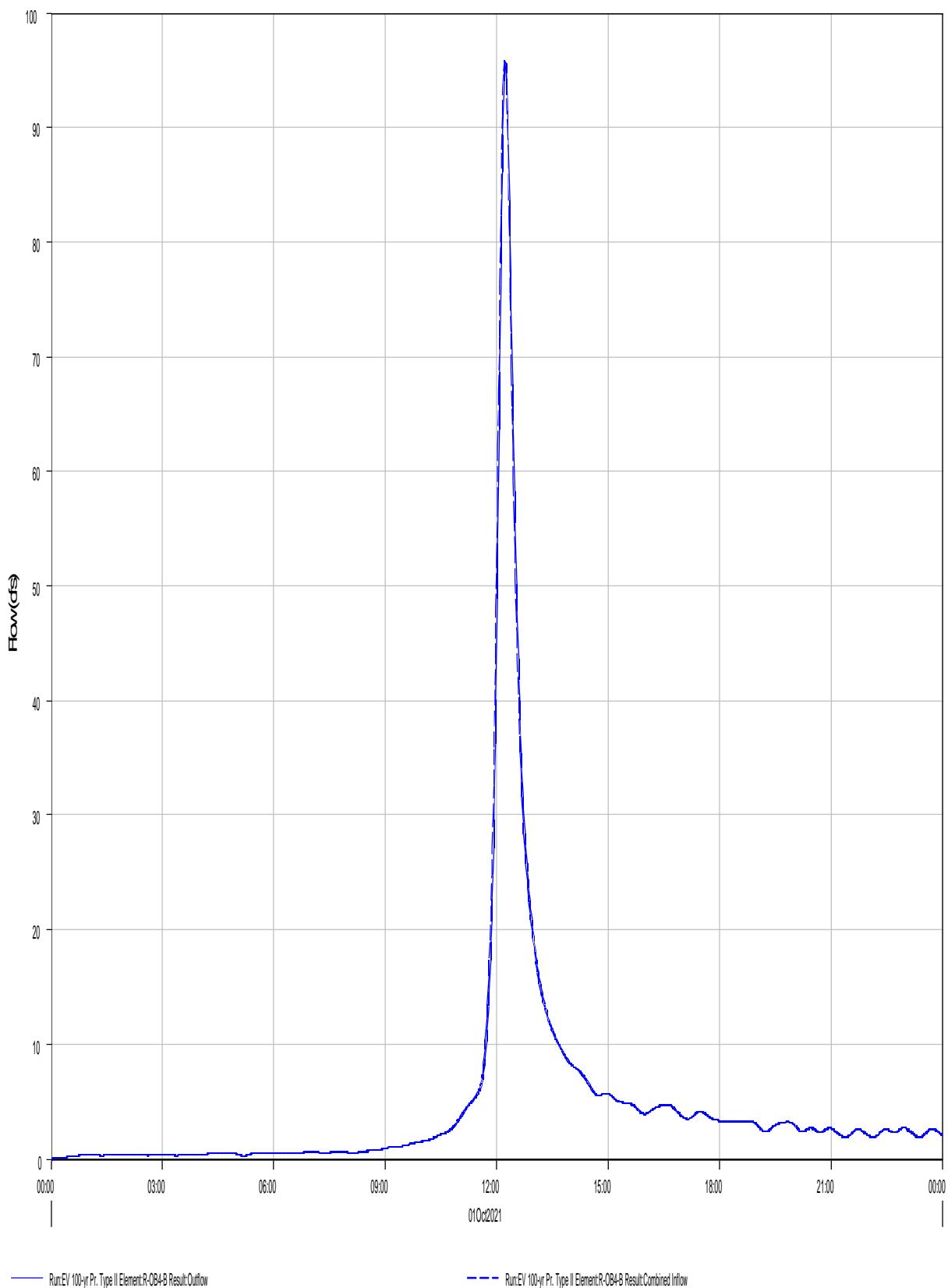
- - Run EV 100-yr Pr. Type II Element:R-QB4-A Result:Combined Inflow

Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-OB4-A
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Inflow :	85.6 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:12
Peak Outflow :	85.5 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	8.8 (AC-FT)	Total Outflow :	8.8 (AC-FT)

Reach 'R-OB4-B' Results for Run "EV 100-yr Pr. Type II"



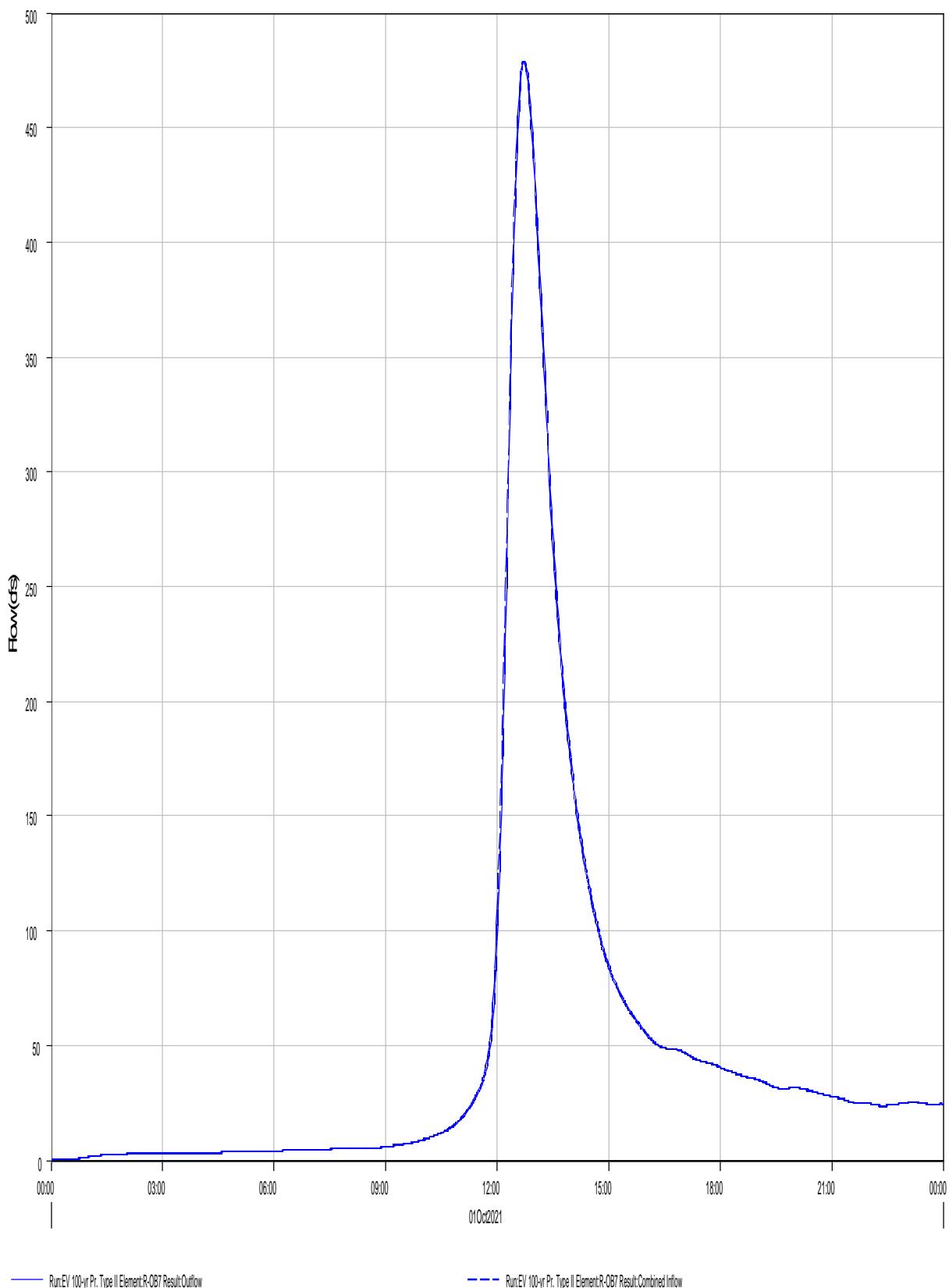
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-OB4-B
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	95.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	95.8 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:14
Total Inflow :	9.8 (AC-FT)	Total Outflow :	9.8 (AC-FT)

Reach "R-OB" Results for Run "EV 100-yr Pr. Type II"



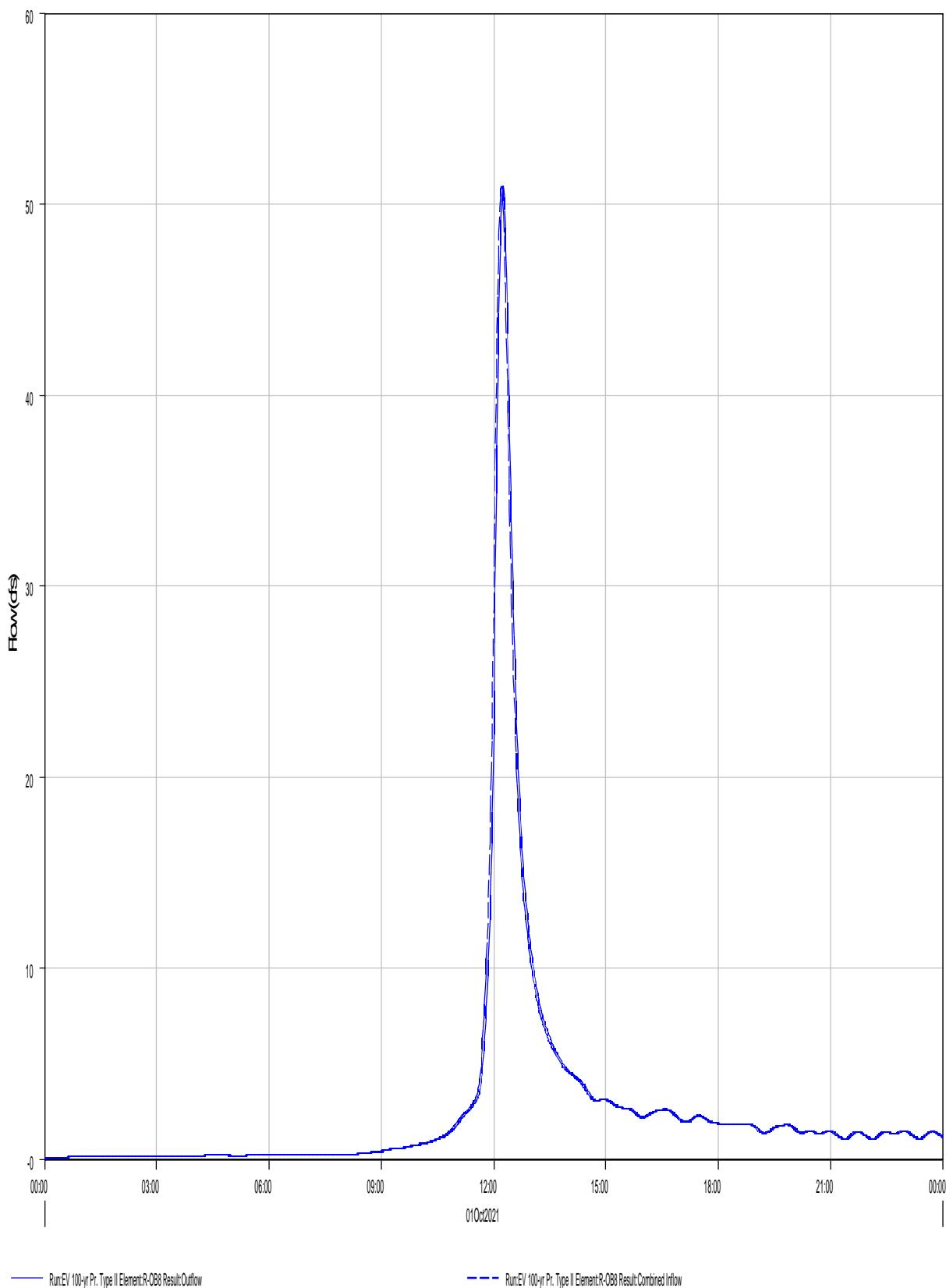
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-OB7
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	479.0 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:42
Peak Outflow :	479.0 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:44
Total Inflow :	98.2 (AC-FT)	Total Outflow :	98.1 (AC-FT)

Reach "R-OB8" Results for Run "EV 100-yr Pr. Type II"



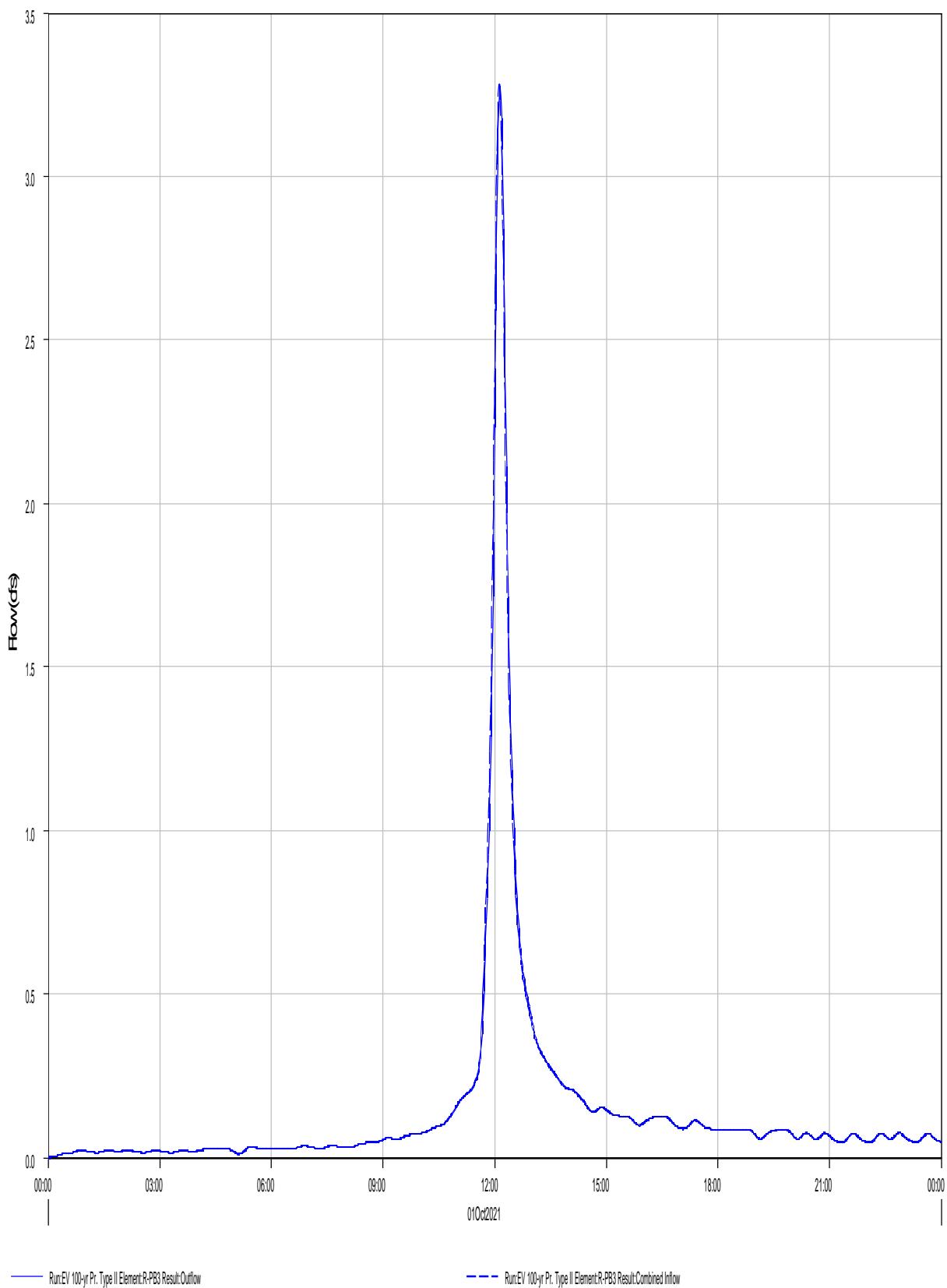
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-OB8
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	51.0 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	50.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:15
Total Inflow :	5.3 (AC-FT)	Total Outflow :	5.3 (AC-FT)

Reach 'R-PB3' Results for Run "EV 100-yr Pr. Type II"



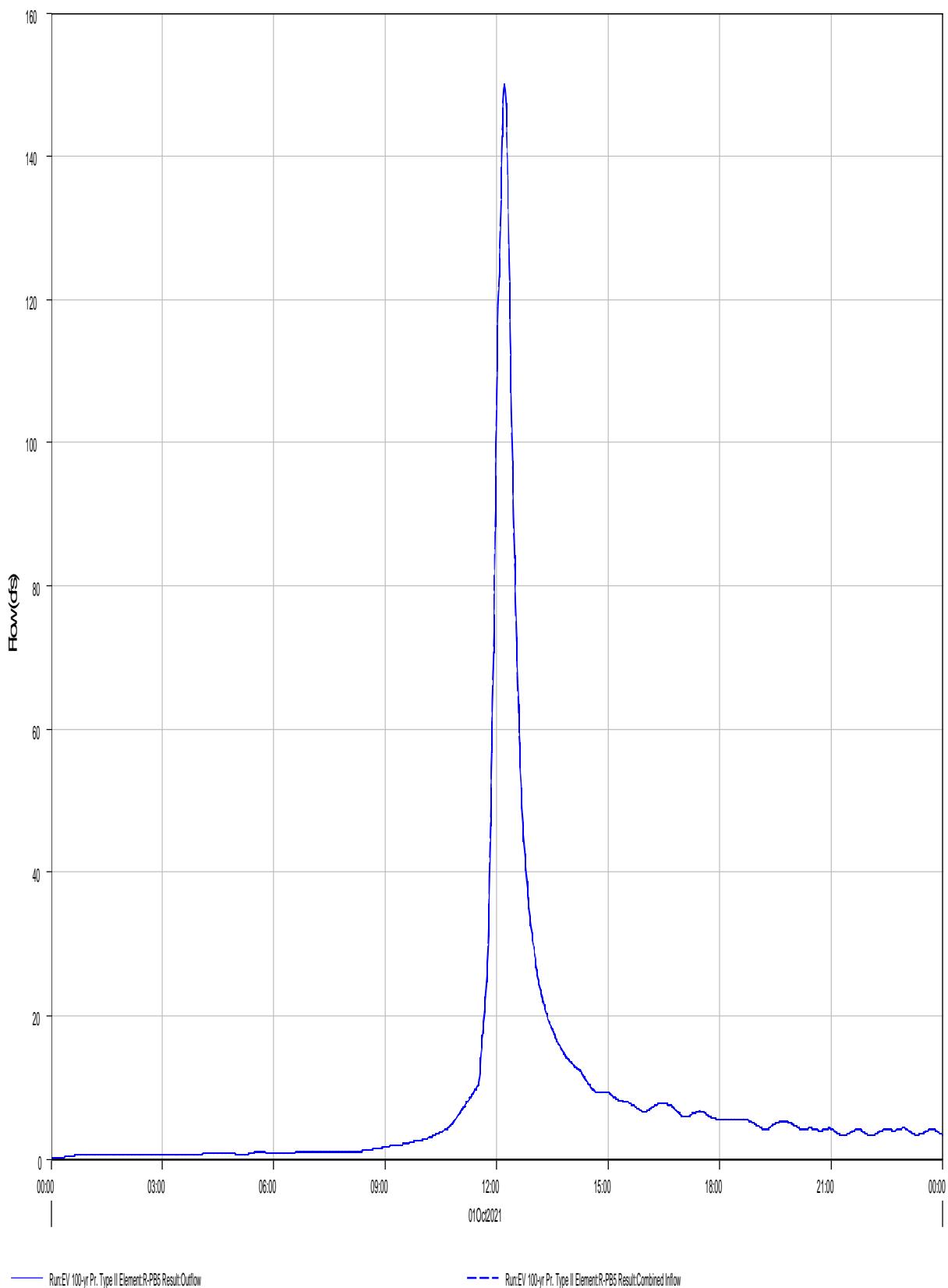
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB3
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	3.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:07
Peak Outflow :	3.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:09
Total Inflow :	0.3 (AC-FT)	Total Outflow :	0.3 (AC-FT)

Reach 'R-PB5' Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB5
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	150.1 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:12
Peak Outflow :	150.0 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	16.4 (AC-FT)	Total Outflow :	16.4 (AC-FT)

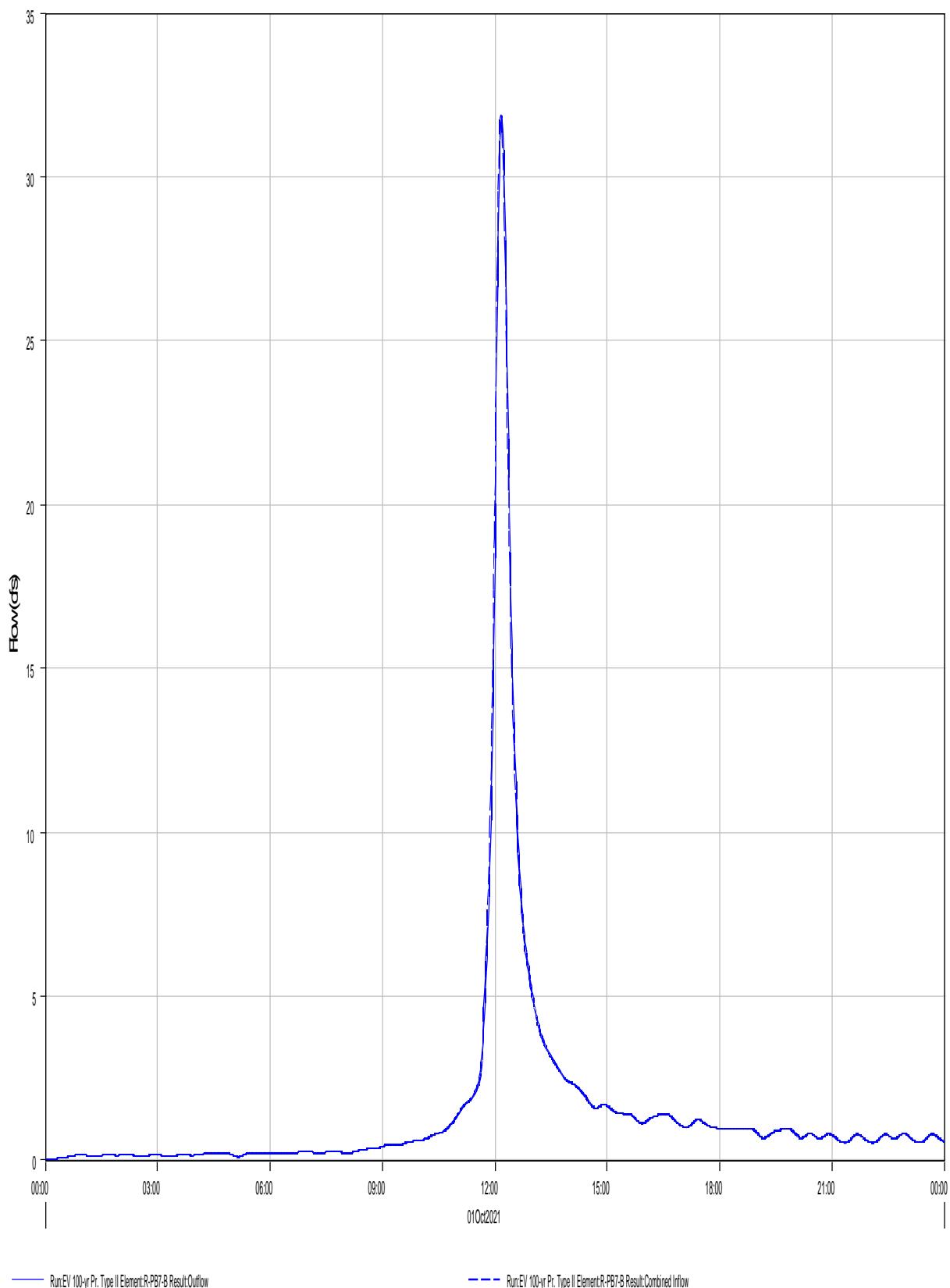
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB7-A
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	11.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:08
Peak Outflow :	11.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:09
Total Inflow :	1.0 (AC-FT)	Total Outflow :	1.0 (AC-FT)

Reach "R-PB7-B" Results for Run "EV 100-yr Pr. Type II"



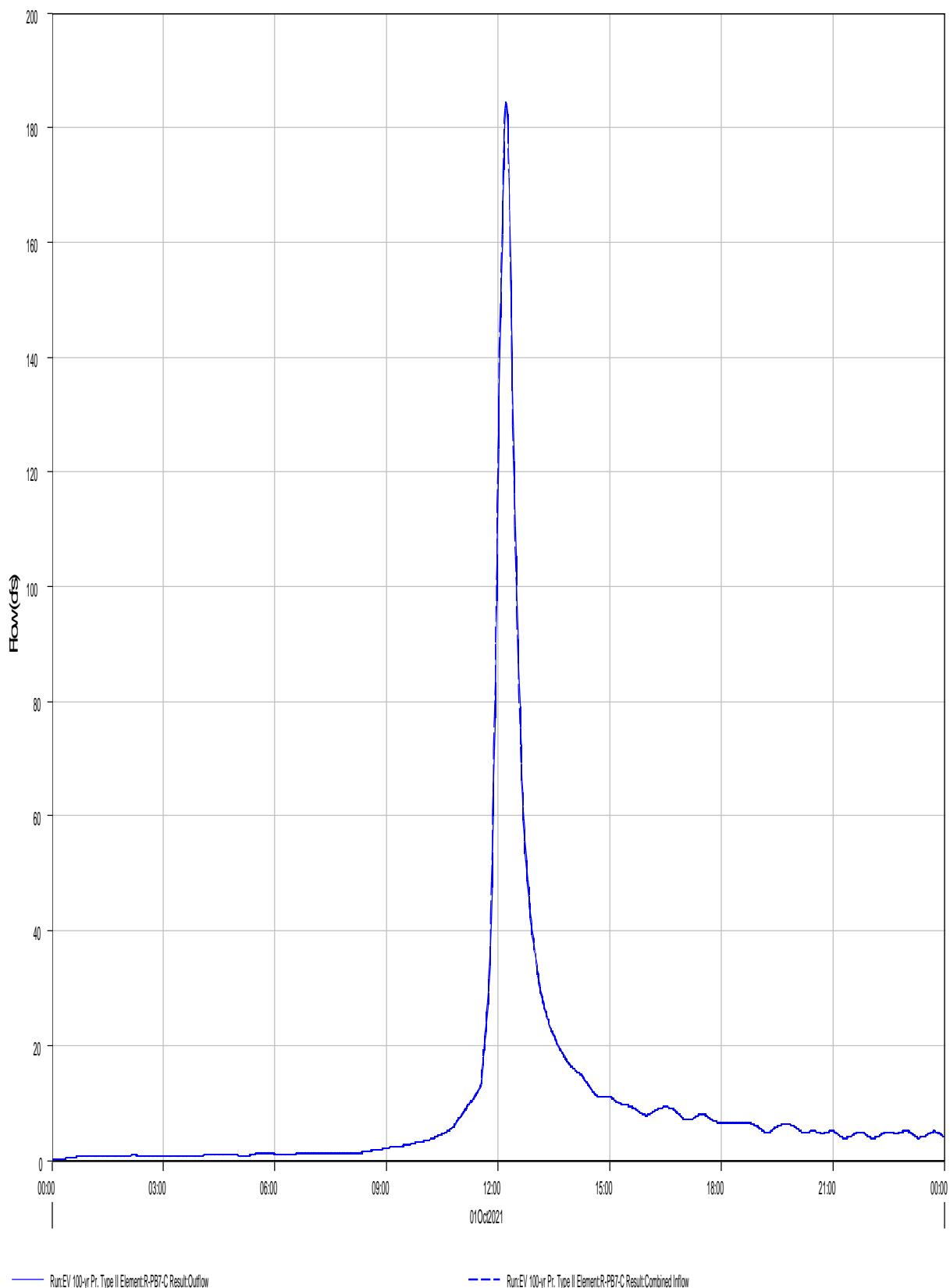
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB7-B
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	31.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:10
Peak Outflow :	31.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:11
Total Inflow :	3.1 (AC-FT)	Total Outflow :	3.1 (AC-FT)

Reach "R-PB7-C" Results for Run "EV 100-yr Pr. Type II"



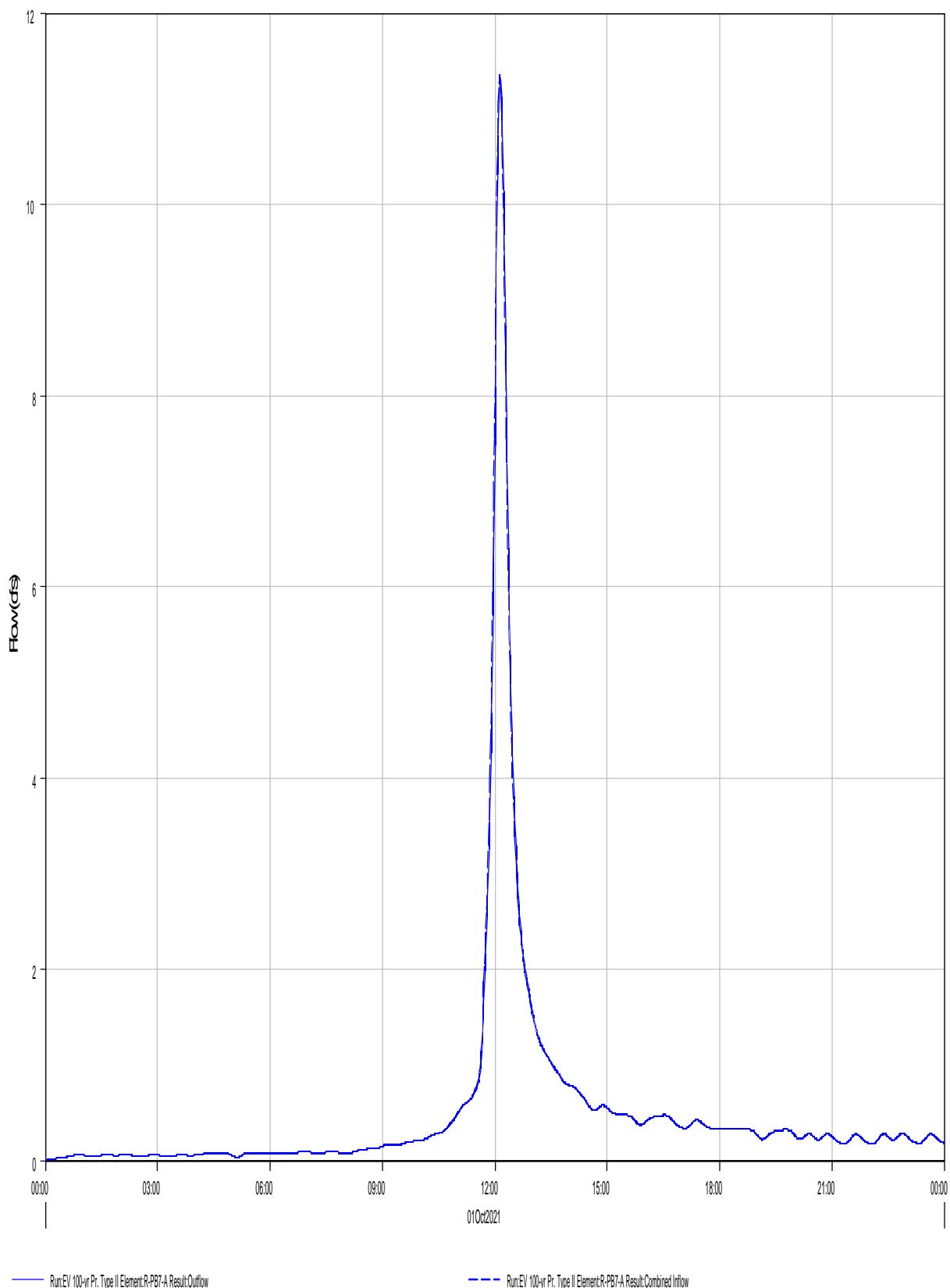
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB7-C
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

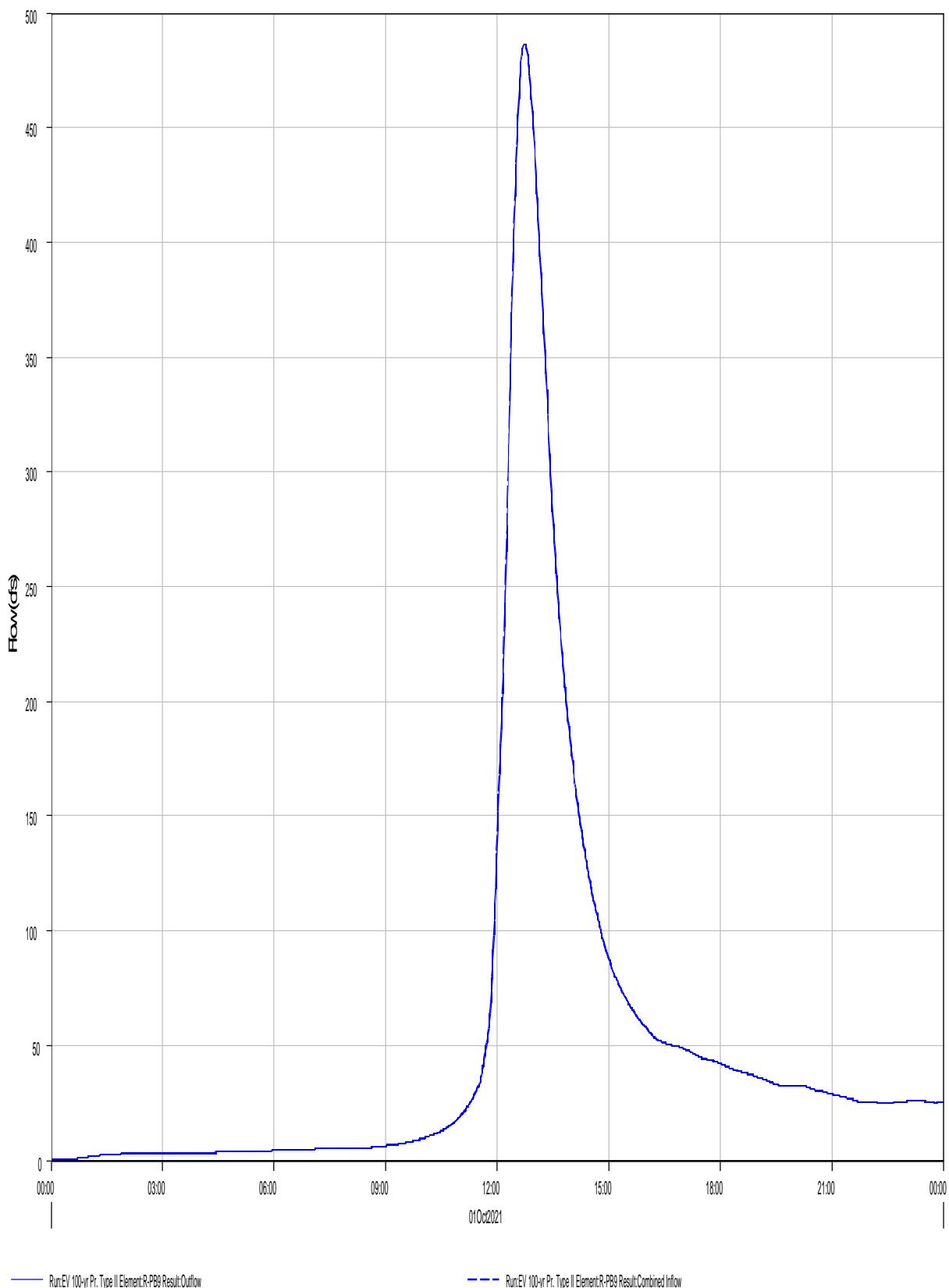
Computed Results

Peak Inflow :	184.6 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:12
Peak Outflow :	184.4 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:13
Total Inflow :	19.8 (AC-FT)	Total Outflow :	19.8 (AC-FT)

Reach "R-PB7-A" Results for Run "EV 100-yr Pr. Type II"



Reach 'R-PB9' Results for Run "EV 100-yr Pr. Type II"



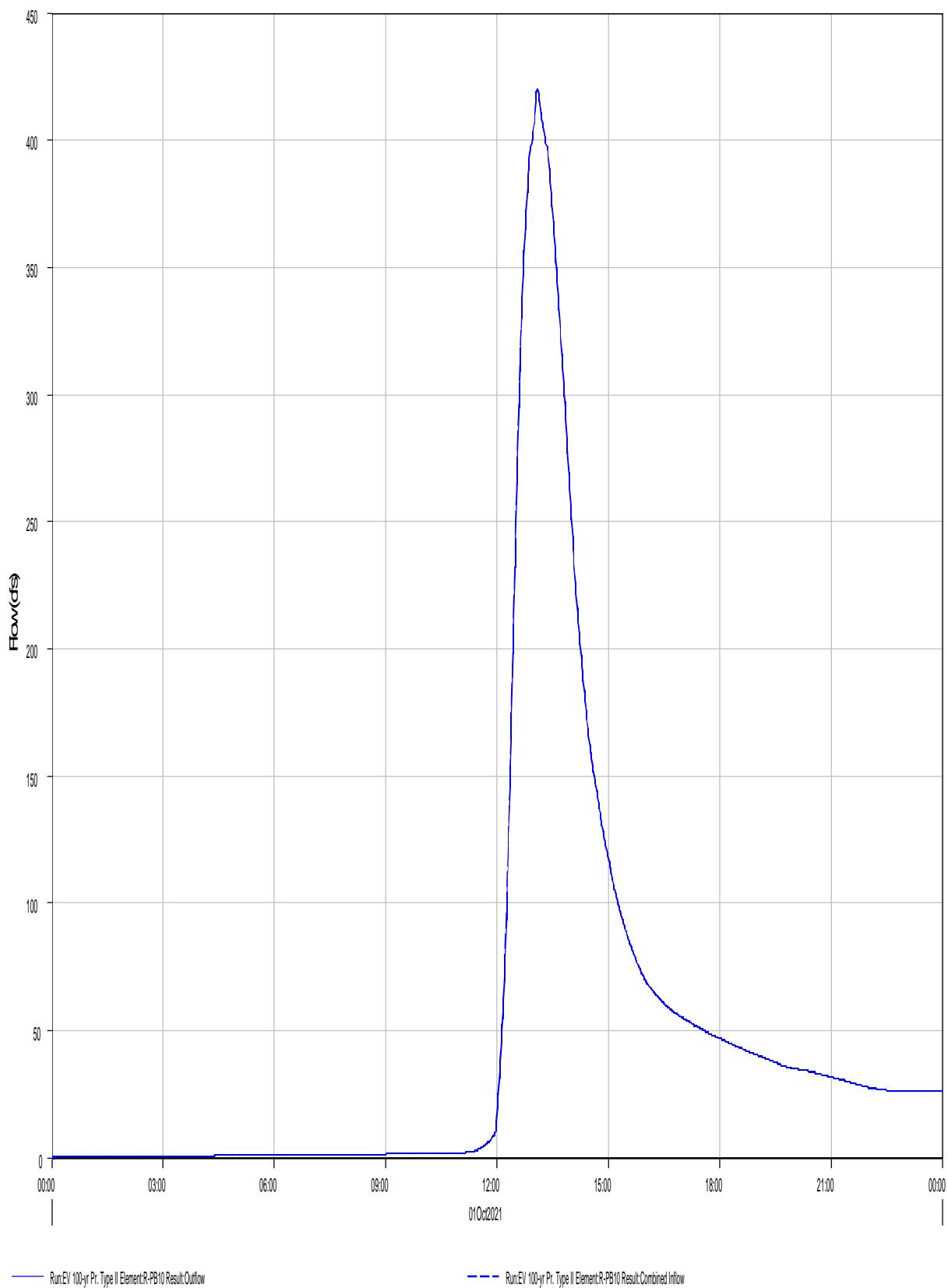
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB9
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	486.7 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:44
Peak Outflow :	486.6 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:44
Total Inflow :	102.2 (AC-FT)	Total Outflow :	102.2 (AC-FT)

Reach 'R-PB10' Results for Run "EV 100-yr Pr. Type II"



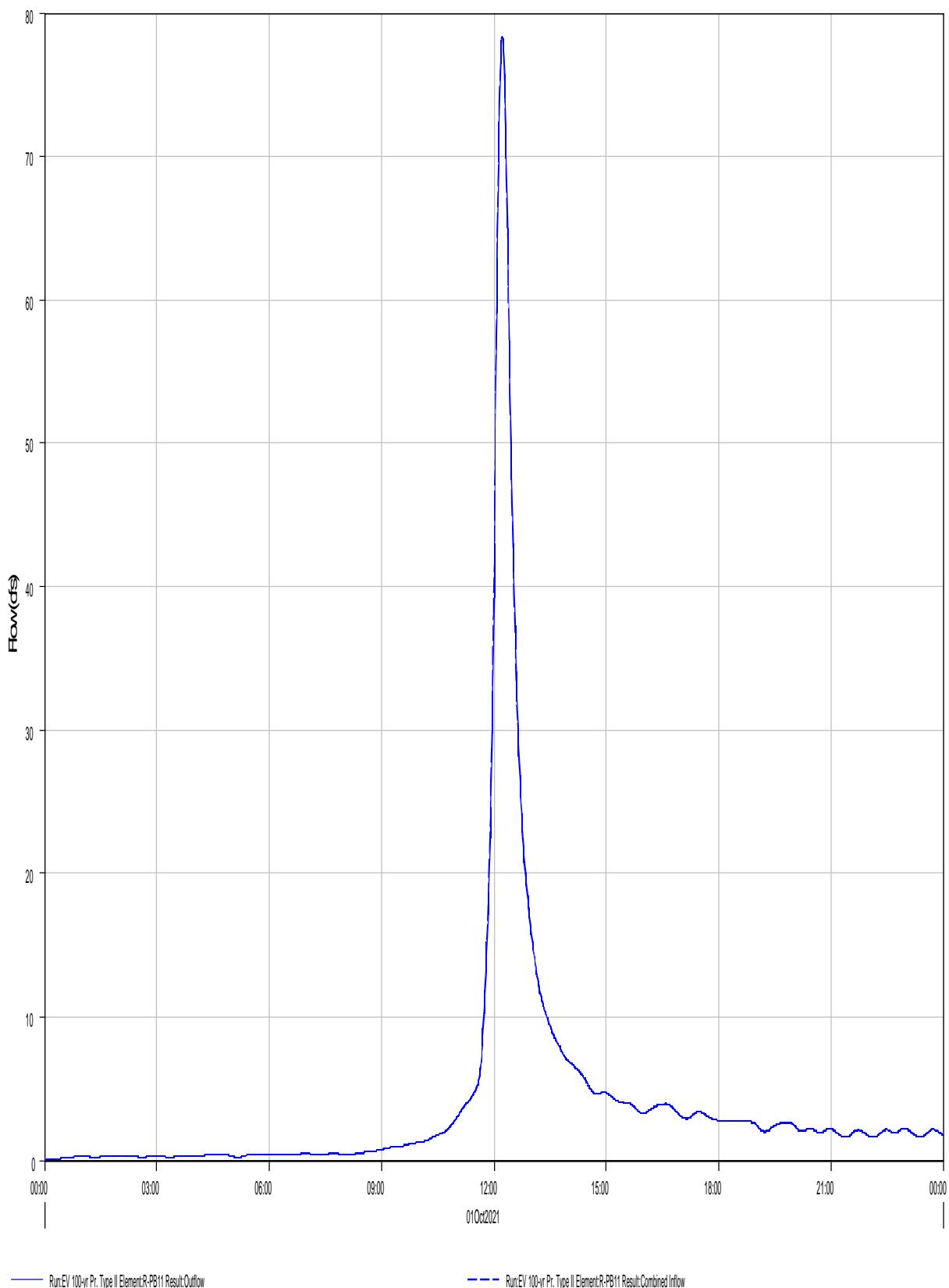
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB10
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	420.1 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 13:05
Peak Outflow :	420.0 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:06
Total Inflow :	96.5 (AC-FT)	Total Outflow :	96.5 (AC-FT)

Reach "R-PB11" Results for Run "EV 100-yr Pr. Type II"

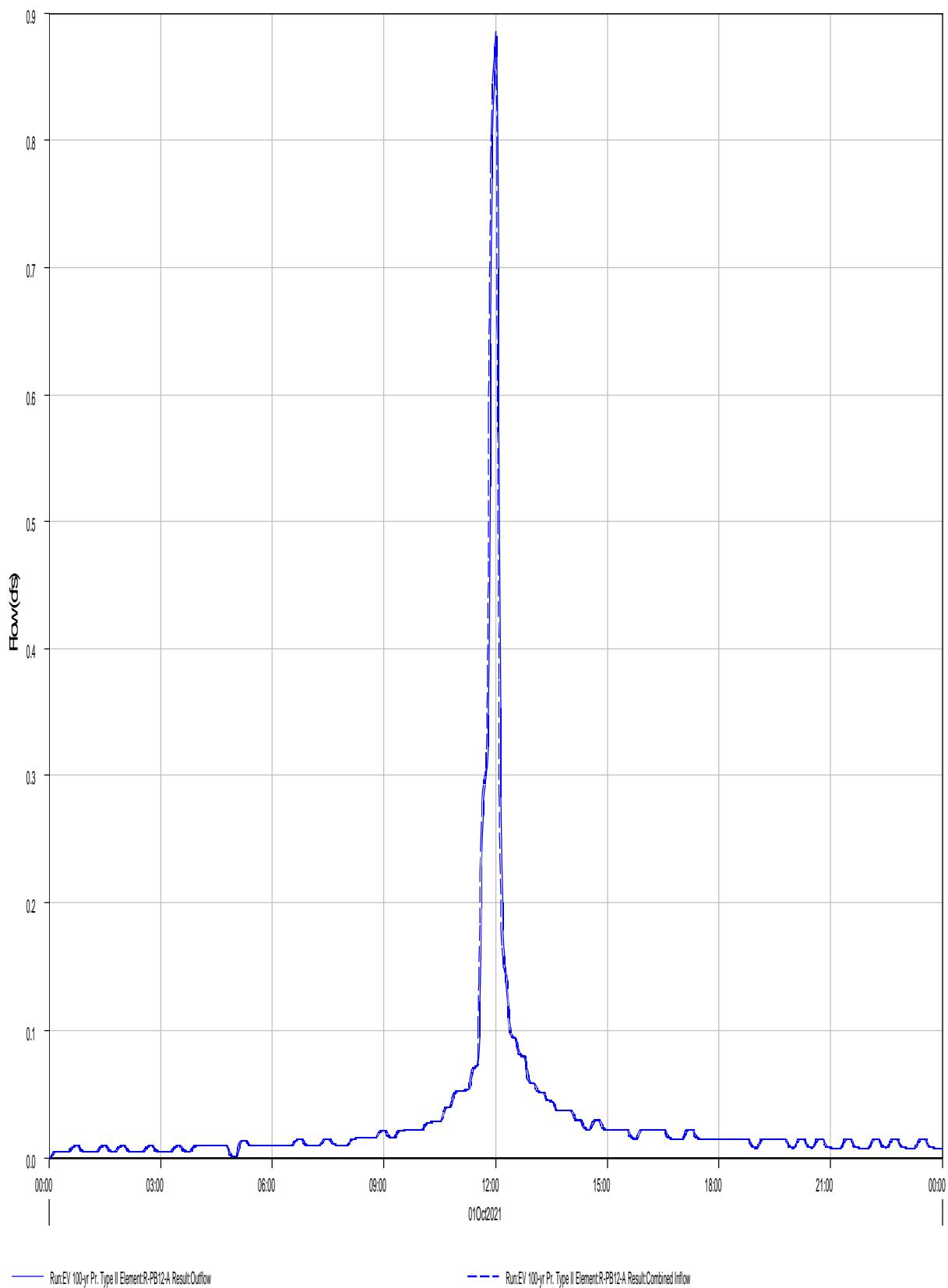


Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB11
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm
Volume Units: AC-FT

Computed Results

Peak Inflow :	78.4 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:13
Peak Outflow :	78.3 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:14
Total Inflow :	8.2 (AC-FT)	Total Outflow :	8.2 (AC-FT)

Reach 'R-PB12-A' Results for Run "EV 100-yr Pr. Type II"



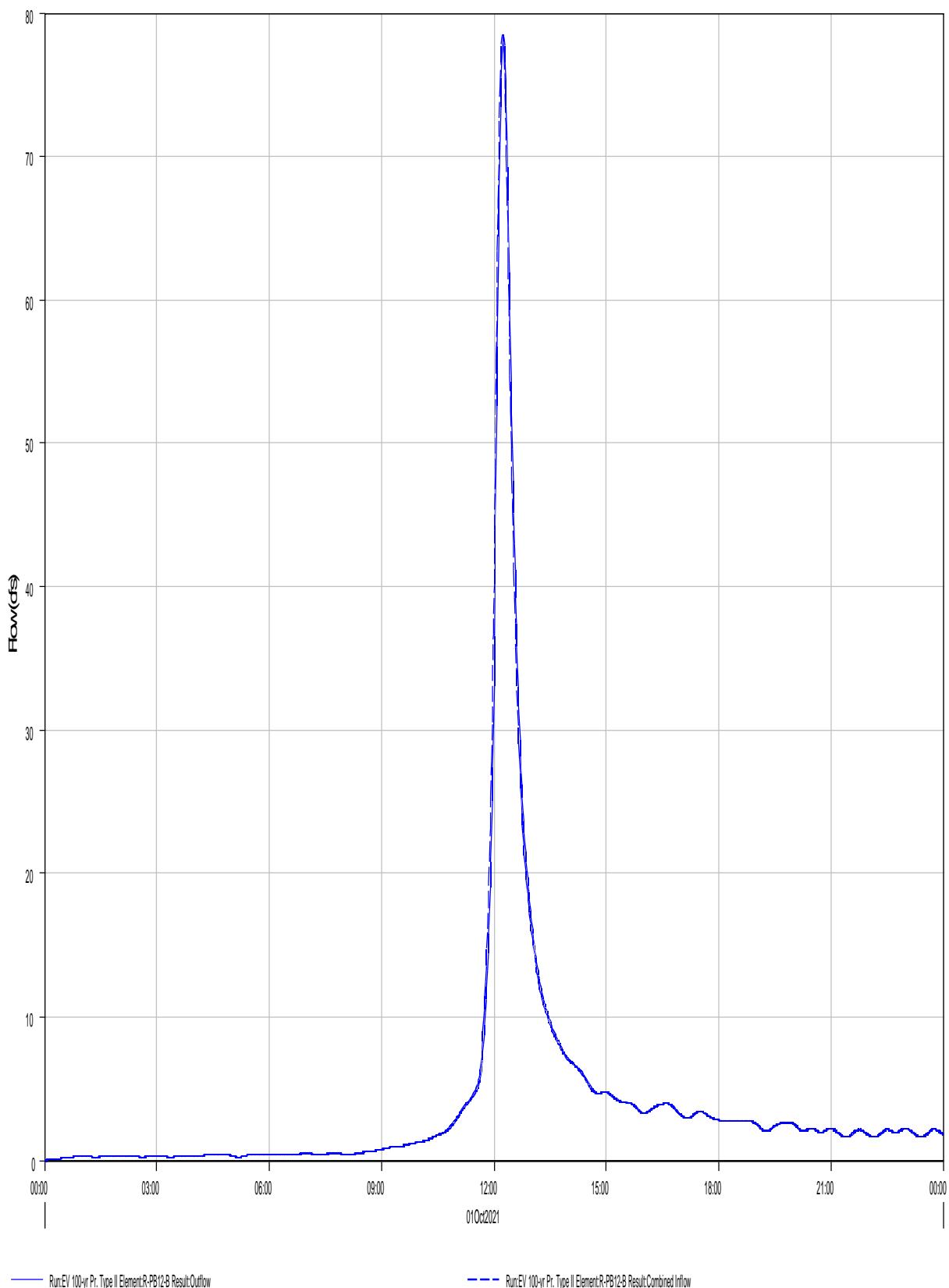
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB12-A
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	0.9 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:00
Peak Outflow :	0.9 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:02
Total Inflow :	0.1 (AC-FT)	Total Outflow :	0.1 (AC-FT)

Reach 'R-PB12-B' Results for Run "EV 100-yr Pr. Type II"



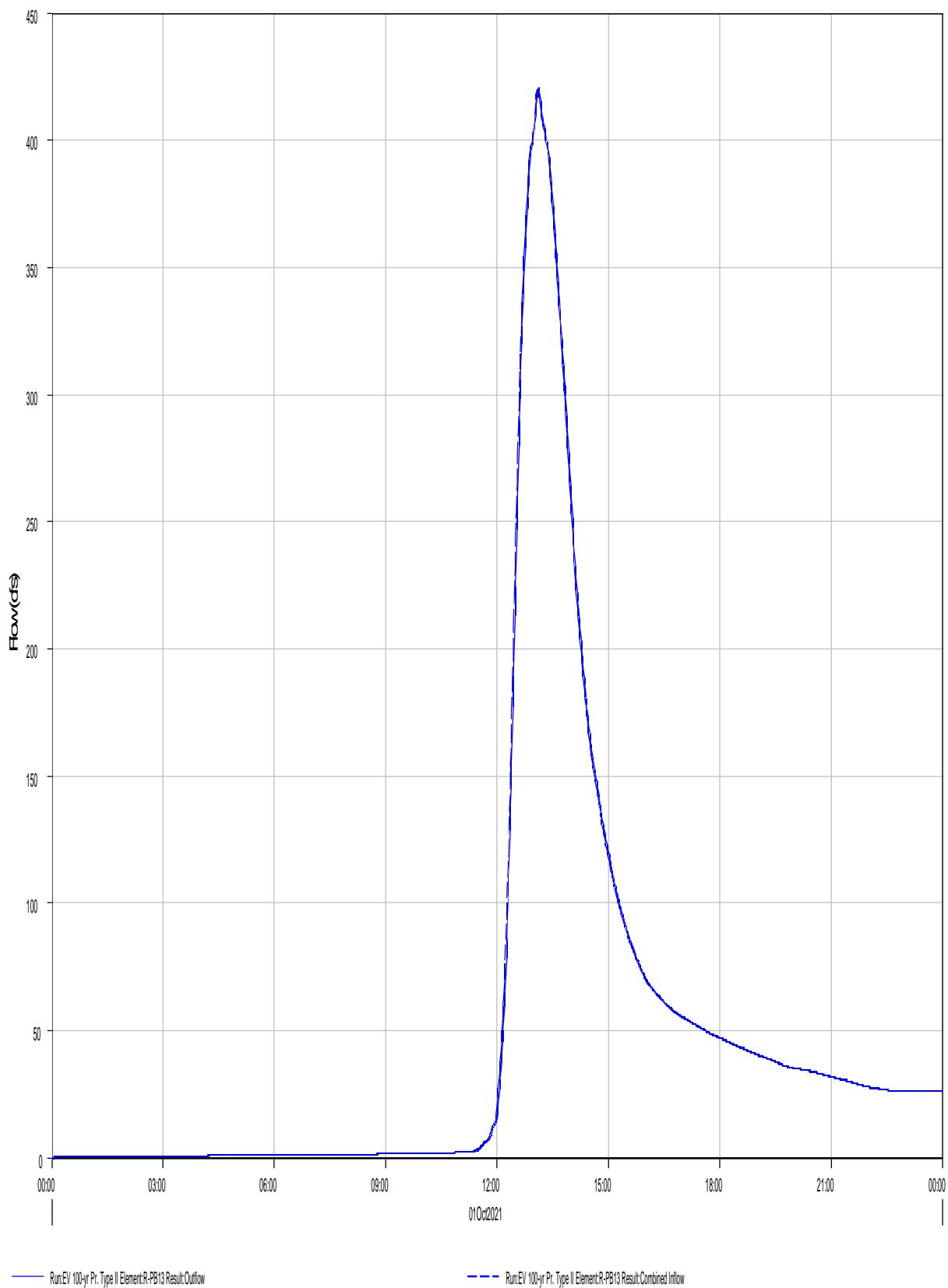
Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB12-B
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	78.5 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:14
Peak Outflow :	78.4 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:15
Total Inflow :	8.2 (AC-FT)	Total Outflow :	8.2 (AC-FT)

Reach 'R-PB13' Results for Run "EV 100-yr Pr. Type II"



Project: Eagleview_Subdivision
Simulation Run: EV 100-yr Pr. Type II Reach: R-PB13
Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 15Mar2022, 09:38:27 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

Peak Inflow :	420.3 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 13:06
Peak Outflow :	420.1 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 13:07
Total Inflow :	96.8 (AC-FT)	Total Outflow :	96.7 (AC-FT)

TypicalChannel

Project Description	
Friction Method	Manning Formula
Solve For	Discharge
Input Data	
Roughness Coefficient	0.030
Channel Slope	0.025 ft/ft
Normal Depth	24.0 in
Left Side Slope	1.300 H:V
Right Side Slope	1.300 H:V
Results	
Discharge	34.88 cfs
Flow Area	5.2 ft ²
Wetted Perimeter	6.6 ft
Hydraulic Radius	9.5 in
Top Width	5.20 ft
Critical Depth	25.7 in
Critical Slope	0.017 ft/ft
Velocity	6.71 ft/s
Velocity Head	0.70 ft
Specific Energy	2.70 ft
Froude Number	1.183
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	24.0 in
Critical Depth	25.7 in
Channel Slope	0.025 ft/ft
Critical Slope	0.017 ft/ft

Label what these cross-sections are for and stabilization needed

Worksheet for Typical Ditch

Project Description

Friction Method	Manning Formula
Solve For	Discharge

Input Data

Roughness Coefficient	0.030
Channel Slope	0.025 ft/ft
Normal Depth	18.0 in
Left Side Slope	4.000 H:V
Right Side Slope	4.000 H:V

Results

Discharge	57.02 cfs
Flow Area	9.0 ft ²
Wetted Perimeter	12.4 ft
Hydraulic Radius	8.7 in
Top Width	12.00 ft
Critical Depth	19.9 in
Critical Slope	0.015 ft/ft
Velocity	6.34 ft/s
Velocity Head	0.62 ft
Specific Energy	2.12 ft
Froude Number	1.290
Flow Type	Supercritical

Label what these cross-sections are for and stabilization needed

GVF Input Data

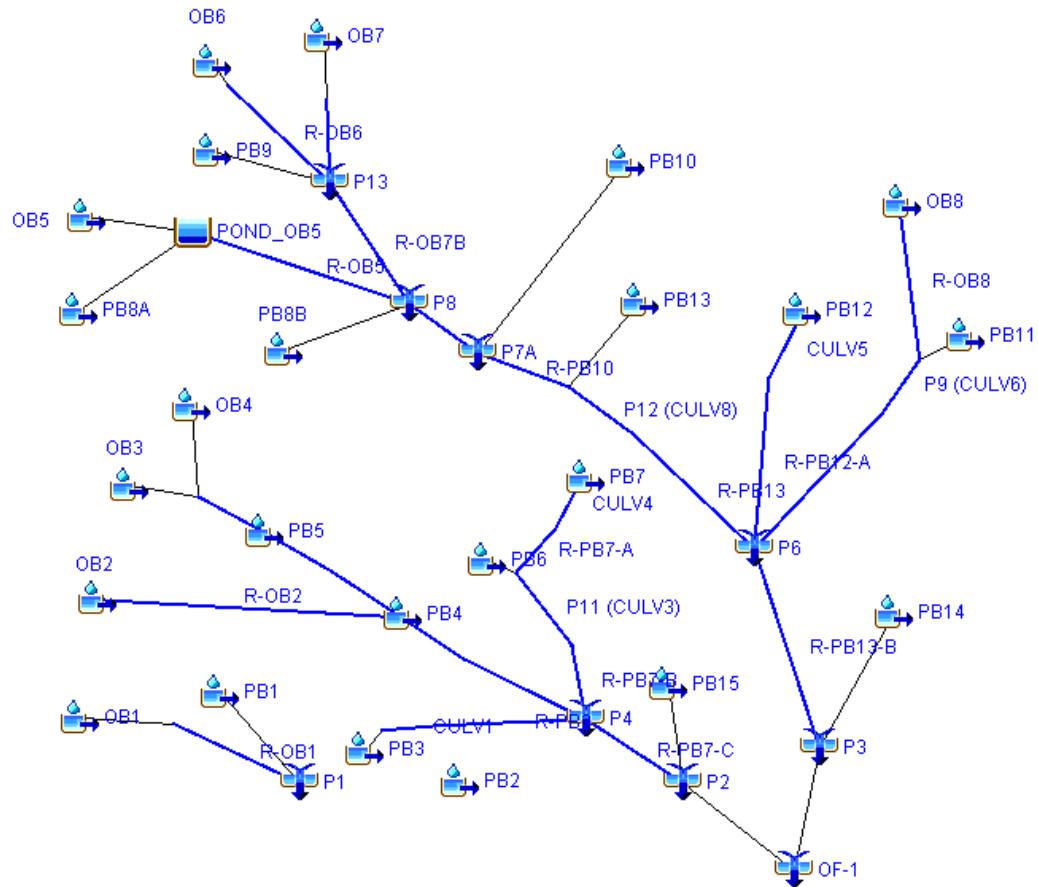
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data

Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	18.0 in
Critical Depth	19.9 in
Channel Slope	0.025 ft/ft
Critical Slope	0.015 ft/ft

Proposed Conditions Hydrology (Revised)

Proposed Conditions HEC-HMS (Includes sub regional detention Pond_OB5)



Project: Eagleview_Subdivision_Update Simulation Run: Pre-Run
 Start of Run: 01Oct2021, 00:00 Basin Model:
 End of Run: 02Oct2021, 00:00 Meteorologic Model:
 Compute Time: 12Oct2023, 09:44:12 Control Specifications:

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
OB7	0.65812	284.3	01Oct2021, 12:52	60.6
R-OB7A	0.65812	284.3	01Oct2021, 12:53	60.5
OB6	0.18501	113.3	01Oct2021, 12:29	17.5
R-OB6	0.18501	113.3	01Oct2021, 12:30	17.5
PB9	0.0199984	24.8	01Oct2021, 12:07	2.2
P13	0.86313	375.0	01Oct2021, 12:44	80.3
R-OB7B	0.86313	374.9	01Oct2021, 12:45	80.2
OB5	0.22472	107.1	01Oct2021, 12:40	19.8
PB8A	0.0115600	19.3	01Oct2021, 12:01	1.3
POND_OB5	0.23628	100.6	01Oct2021, 12:52	20.0
R-OB5	0.23628	100.6	01Oct2021, 12:55	20.0
PB8B	0.0093900	15.5	01Oct2021, 12:01	1.0
P8	1.1088	473.9	01Oct2021, 12:47	101.2
R-PB9	1.1088	473.9	01Oct2021, 12:48	101.2
PB10	0.0180156	20.4	01Oct2021, 12:10	2.0
P7A	1.1268	478.3	01Oct2021, 12:48	103.2
R-PB10	1.1268	478.3	01Oct2021, 12:48	103.2
PB13	0.0060438	10.9	01Oct2021, 12:00	0.7
P12 (CULV8)	1.1329	479.2	01Oct2021, 12:48	103.9
R-PB13	1.1329	479.2	01Oct2021, 12:48	103.8
OB8	0.0516742	51.6	01Oct2021, 12:13	5.4
R-OB8	0.0516742	51.6	01Oct2021, 12:15	5.4
PB11	0.0251766	29.8	01Oct2021, 12:10	2.9
P9 (CULV6)	0.0768508	79.1	01Oct2021, 12:13	8.2
R-PB11	0.0768508	79.0	01Oct2021, 12:14	8.2

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
PB12	.000315625	0.9	01Oct2021, 12:00	0.1
CULV5	.000315625	0.9	01Oct2021, 12:00	0.1
R-PB12-A	.000315625	0.9	01Oct2021, 12:02	0.1
P6	1.2100	501.7	01Oct2021, 12:46	112.1
R-PB13-B	1.2100	501.6	01Oct2021, 12:47	112.1
PB14	0.0270031	46.3	01Oct2021, 12:01	2.9
P3	1.2370	506.2	01Oct2021, 12:47	115.0
OB3	0.0678750	67.2	01Oct2021, 12:12	7.0
OB4	0.0164062	18.9	01Oct2021, 12:10	1.8
R-OB4-A	0.0842812	85.7	01Oct2021, 12:13	8.8
PB5	0.0096625	10.4	01Oct2021, 12:12	1.1
P5 (CULV7)	0.0939437	96.1	01Oct2021, 12:13	9.9
R-OB4-B	0.0939437	95.9	01Oct2021, 12:14	9.8
OB2	0.0438438	52.7	01Oct2021, 12:08	4.7
R-OB2	0.0438438	52.5	01Oct2021, 12:09	4.7
PB4	0.0164672	30.2	01Oct2021, 12:00	1.9
P10 (CULV2)	0.15425	150.2	01Oct2021, 12:12	16.4
R-PB5	0.15425	150.1	01Oct2021, 12:13	16.4
PB6	0.0173312	20.7	01Oct2021, 12:10	2.0
PB7	0.0054094	7.4	01Oct2021, 12:08	0.7
CULV4	0.0054094	7.4	01Oct2021, 12:08	0.7
R-PB7-A	0.0054094	7.4	01Oct2021, 12:09	0.7
P11 (CULV3)	0.0227406	28.0	01Oct2021, 12:10	2.7
R-PB7-B	0.0227406	27.9	01Oct2021, 12:11	2.7
PB3	0.0021625	3.3	01Oct2021, 12:07	0.3
CULV1	0.0021625	3.3	01Oct2021, 12:07	0.3
R-PB3	0.0021625	3.3	01Oct2021, 12:09	0.3
P4	0.17916	180.8	01Oct2021, 12:12	19.4
R-PB7-C	0.17916	180.8	01Oct2021, 12:13	19.4
PB15	0.0150500	26.3	01Oct2021, 12:00	1.7
P2	0.19421	185.4	01Oct2021, 12:13	21.1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (AC-FT)
OF-1	1.4312	562.3	01Oct2021, 12:42	136.1
OB1	0.0162031	18.8	01Oct2021, 12:08	1.7
R-OB1	0.0162031	18.7	01Oct2021, 12:09	1.7
PB1	0.0066453	7.7	01Oct2021, 12:09	0.7
P1	0.0228484	26.4	01Oct2021, 12:09	2.4
PB2	0.0016935	2.4	01Oct2021, 12:06	0.2

Project: Eagleview_Subdivision_Update

Simulation Run: Proposed_PondOB5 Reservoir: POND_OB5

Start of Run: 01Oct2021, 00:00 Basin Model: Eagleview_Proposed_OB5_Pond
End of Run: 02Oct2021, 00:00 Meteorologic Model: 100-yr Type II
Compute Time: 12Oct2023, 09:44:12 Control Specifications: 24-hr Storm

Volume Units: AC-FT

Computed Results

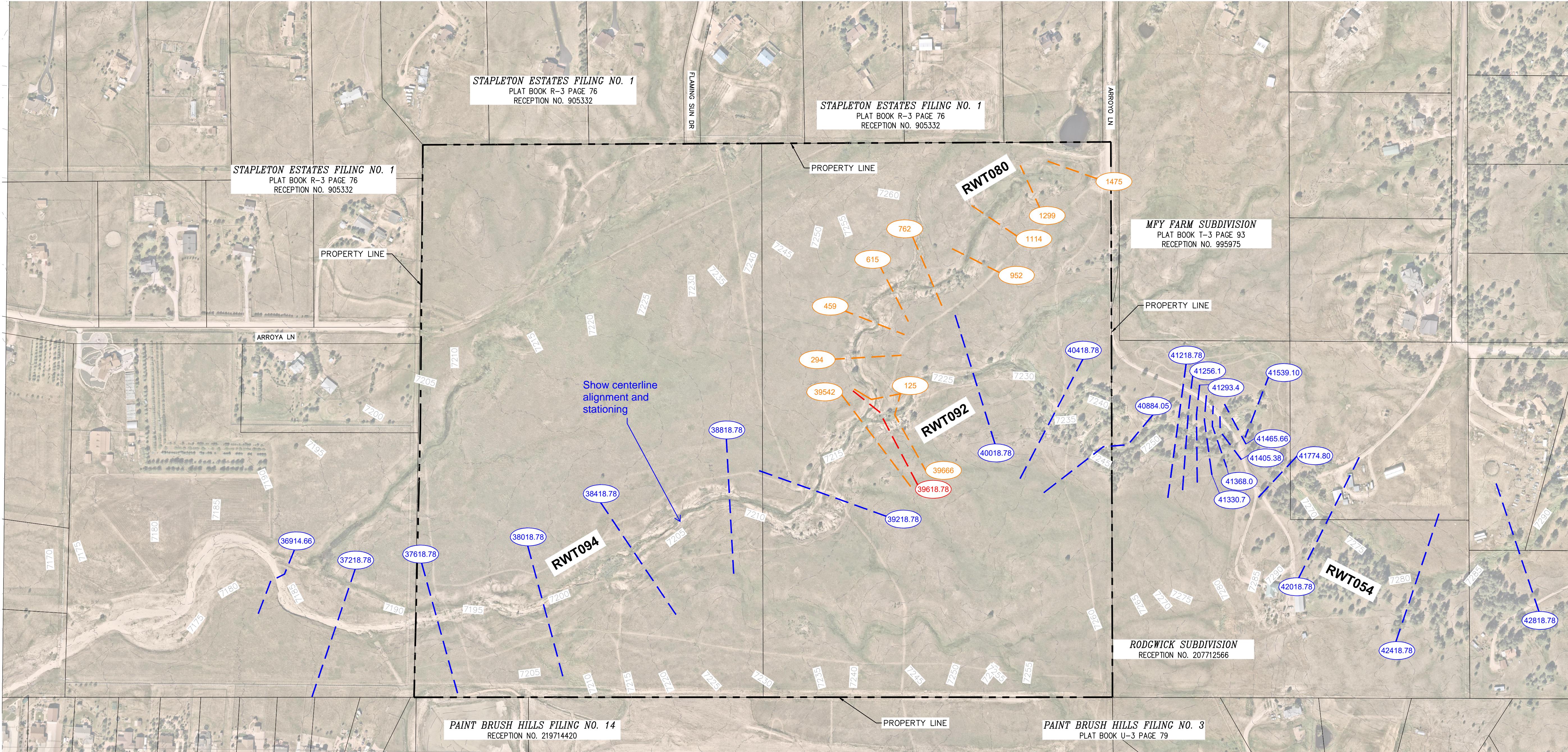
Peak Inflow :	109.2 (CFS)	Date/Time of Peak Inflow :	01Oct2021, 12:40
Peak Outflow :	100.6 (CFS)	Date/Time of Peak Outflow :	01Oct2021, 12:52
Total Inflow :	21.0 (AC-FT)	Peak Storage :	2.4 (AC-FT)
Total Outflow :	20.0 (AC-FT)	Peak Elevation :	7241.3 (FT)

APPENDIX C: HYDRAULICS

- HEC-RAS Model Overview Map and Photos
- HEC-RAS Comparison Table



Overview Map



LEGEND

- — — PROPERTY LINE
- — — LOT LINE
- — — DBPS HEC-RAS CROSS SECTION
- — — DBPS HEC-RAS CROSS SECTION (REMOVED)
- — — NEW HEC-RAS CROSS SECTION
- — — EXISTING MAJOR CONTOUR
- — — EXISTING MINOR CONTOUR
- (XXXXXX) HEC-RAS CROSS SECTION ID

NOTE:
PHOTOS NOT PROVIDED FOR CROSS SECTIONS 36914.66,
37218.78, 42018.78, 42418.78, AND 42818.78.

EAGLEVIE HEC-RAS CROSS
SECTIONS EXHIBIT
10/12/2023

Kimley»Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
2 N NEVADA AVE, SUITE 900, COLORADO SPRINGS, CO 80903
PHONE: 719-453-0180

HEC-RAS Results Comparison (Falcon DBPS HEC-RAS Cross Sections vs Eagleview)															
Cross Section	DBPS							Eagleview							
	Input			Output			Cross Section	Input			Output				
	100-yr Flow (cfs)	Left Overbank	Channel	Manning's n	Velocity (fps)	Shear (lb/sf)	Froude No.	100-yr Flow (cfs)	Left Overbank	Channel	Manning's n	Velocity (fps)	Shear (lb/sf)	Froude No.	
42818.78	260	0.08	0.05	0.08	3.39	0.67	0.45	42818.78	284.2	0.04	0.06	0.04	4.90	1.15	0.55
42418.78	480	0.08	0.05	0.08	6.47	2.42	1.04	42418.78	284.2	0.04	0.06	0.04	5.11	1.71	0.77
42018.78	480	0.08	0.05	0.08	5.46	1.77	0.74	42018.78	284.2	0.04	0.06	0.04	5.19	1.38	0.59
41774.8	480	0.08	0.05	0.08	7.32	3.12	1.02	41774.8	284.2	0.05	0.06	0.04	6.59	2.64	0.89
41539.1	480	0.08	0.05	0.08	3.34	0.63	0.42	41539.1	284.2	0.05	0.06	0.08	2.42	0.28	0.24
41465.66	480	0.08	0.05	0.08	3.28	0.28	0.32	41465.66	284.2	0.08	0.06	0.1	1.53	0.07	0.10
41441.59 (Culvert)	480	-	-	-	-	-	-	41441.59 (Culvert)	284.2	-	-	-	-	-	-
41405.38	480	0.08	0.05	0.08	5.99	2.17	0.87	41405.38	284.2	0.05	0.06	0.08	7.55	1.97	0.77
41368	480	0.08	0.05	0.08	6.06	2.22	0.86	41368	284.2	0.08	0.06	0.08	7.93	3.78	0.90
41330.7	480	0.08	0.05	0.08	6.32	2.43	0.88	41330.7	284.2	0.08	0.06	0.08	6.78	3.21	0.80
41293.4	480	0.08	0.05	0.08	6.36	2.41	0.86	41293.4	284.2	0.1	0.06	0.1	5.72	2.51	0.69
41256.1	480	0.08	0.05	0.08	6.79	2.73	0.91	41256.1	284.2	0.1	0.07	0.1	5.28	3.06	0.64
41218.78	480	0.08	0.05	0.08	5.93	1.99	0.74	41218.78	284.2	0.1	0.07	0.1	4.22	1.89	0.49
40884.05	480	0.08	0.05	0.08	7.00	2.48	0.97	40884.05	284.2	0.025	0.06	0.1	7.45	3.67	0.93
40418.78	480	0.08	0.05	0.08	5.99	2.30	0.91	40418.78	284.2	0.1	0.06	0.1	4.09	1.02	0.52
40018.78	740	0.08	0.03	0.08	9.05	1.56	1.01	40018.78	371.3	0.04	0.06	0.04	7.65	3.87	0.94
39618.78	740	0.08	0.03	0.08	7.56	1.09	1.04	39618.78	478	0.04	0.06	0.04	4.31	0.81	0.48
39218.78	740	0.08	0.03	0.08	9.28	0.78	1.15	39218.78	478	0.04	0.06	0.04	6.90	1.99	0.75
38818.78	740	0.08	0.03	0.08	8.62	1.35	1.03	38818.78	478	0.04	0.05	0.04	6.06	1.49	0.66
38418.78	740	0.08	0.03	0.08	7.39	0.91	1.07	38418.78	478	0.04	0.05	0.04	6.11	1.19	0.73
38018.78	740	0.08	0.03	0.08	8.77	0.91	1.06	38018.78	478	0.045	0.04	0.045	7.31	1.02	0.85
37618.78	740	0.08	0.03	0.08	7.16	0.95	1.04	37618.78	515.5	0.045	0.04	0.045	7.22	0.96	0.88

add downstream section

Potential issues identified. Provide complete modeling and profiles showing effects of grade control/drops

Identify deviations from ECM 3.3.3 and DCM. Revise the design to eliminate deviations or provide deviation request. DBPS revisions and County maintenance depend on meeting criteria and installation of adequate stabilization features.

Replace table from previous report

Cross Section 41774.8

North:



South:



East:



West:



Cross Section 41539.1

North:



South:



East:



West:



Cross Section 41465.66

North:



South:



East:



West:



Cross Section 41441.59

North:



South:



East:



West:



Cross Section 41405.38

North:



South:



East:



West:



Cross Section 41368

North:



South:



East:



West:



Cross Section 41330.7

North:



South:



East:



West:



Cross Section 41293.4

North:



South:



East:



West:



Cross Section 41256.1

North:



South:



Cross Section 41218.78

North:



South:



East:



West:



Cross Section 40884.05

North:



South:



East:



West:



Cross Section 40418.78

North:



South:



East:



West:



Cross Section 40018.78

North:



South:



East:



West:



Cross Section 39618.78

North:



South:



East:



West:



Cross Section 39218.78

North:



South:



East:



West:



Cross Section 38818.78

North:



South:



East:



West:



Cross Section 38418.78

North:



South:



East:



West:



Cross Section 38018.78

North:



South:



East:



West:



Cross Section 37618.78

North:



South:



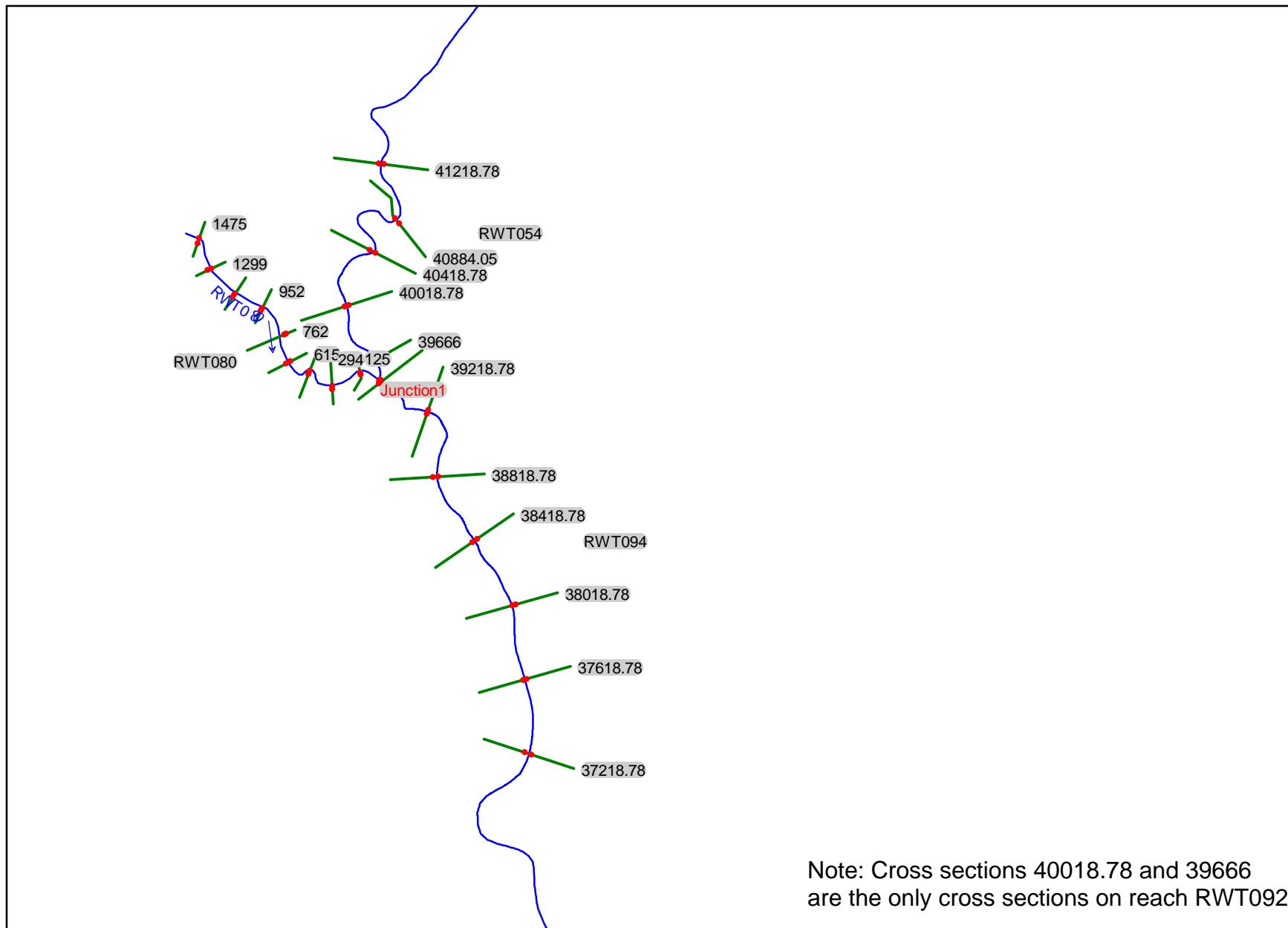
East:

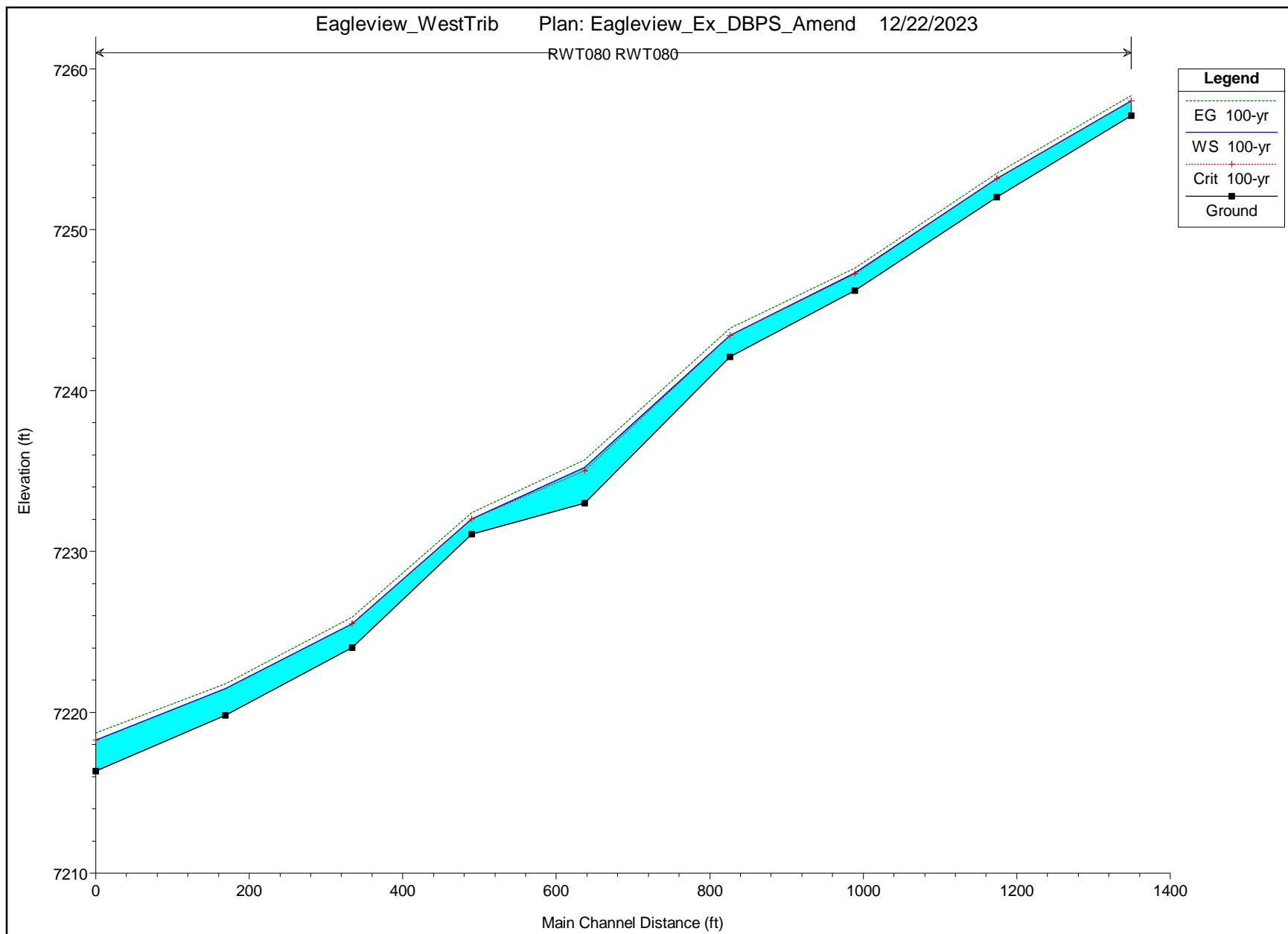


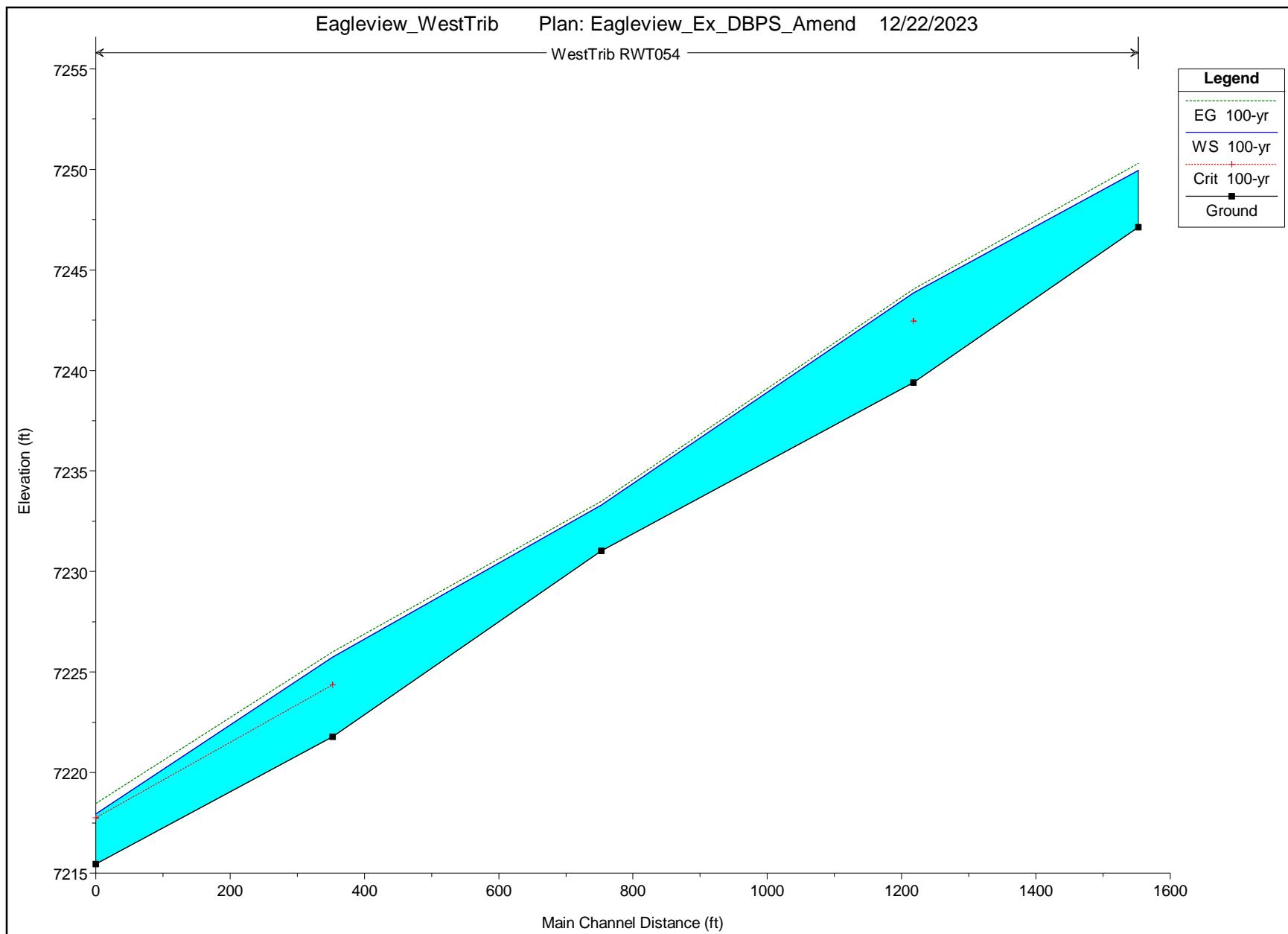
West:

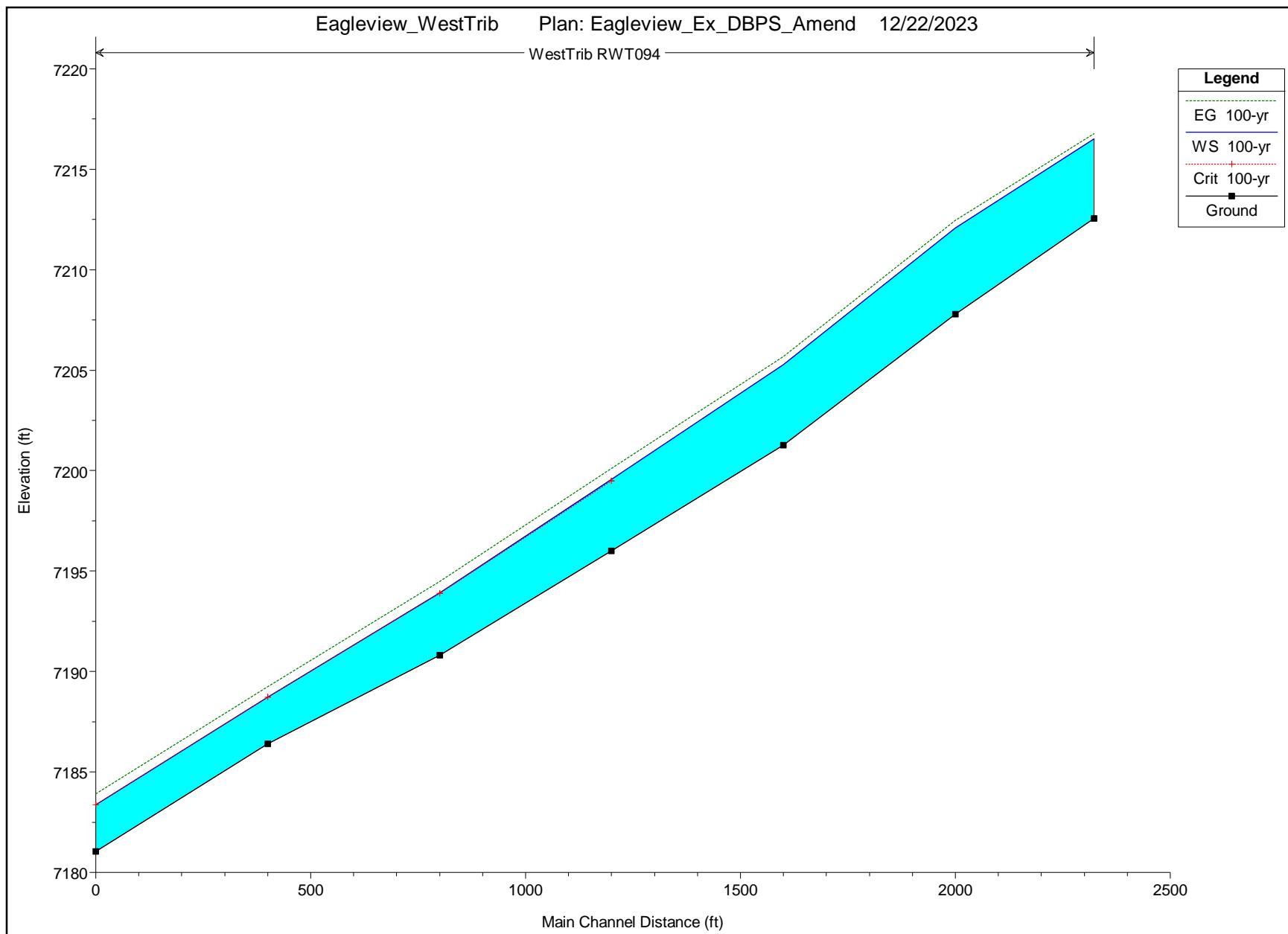


EXISTING CONDITIONS HEC-RAS RESULTS



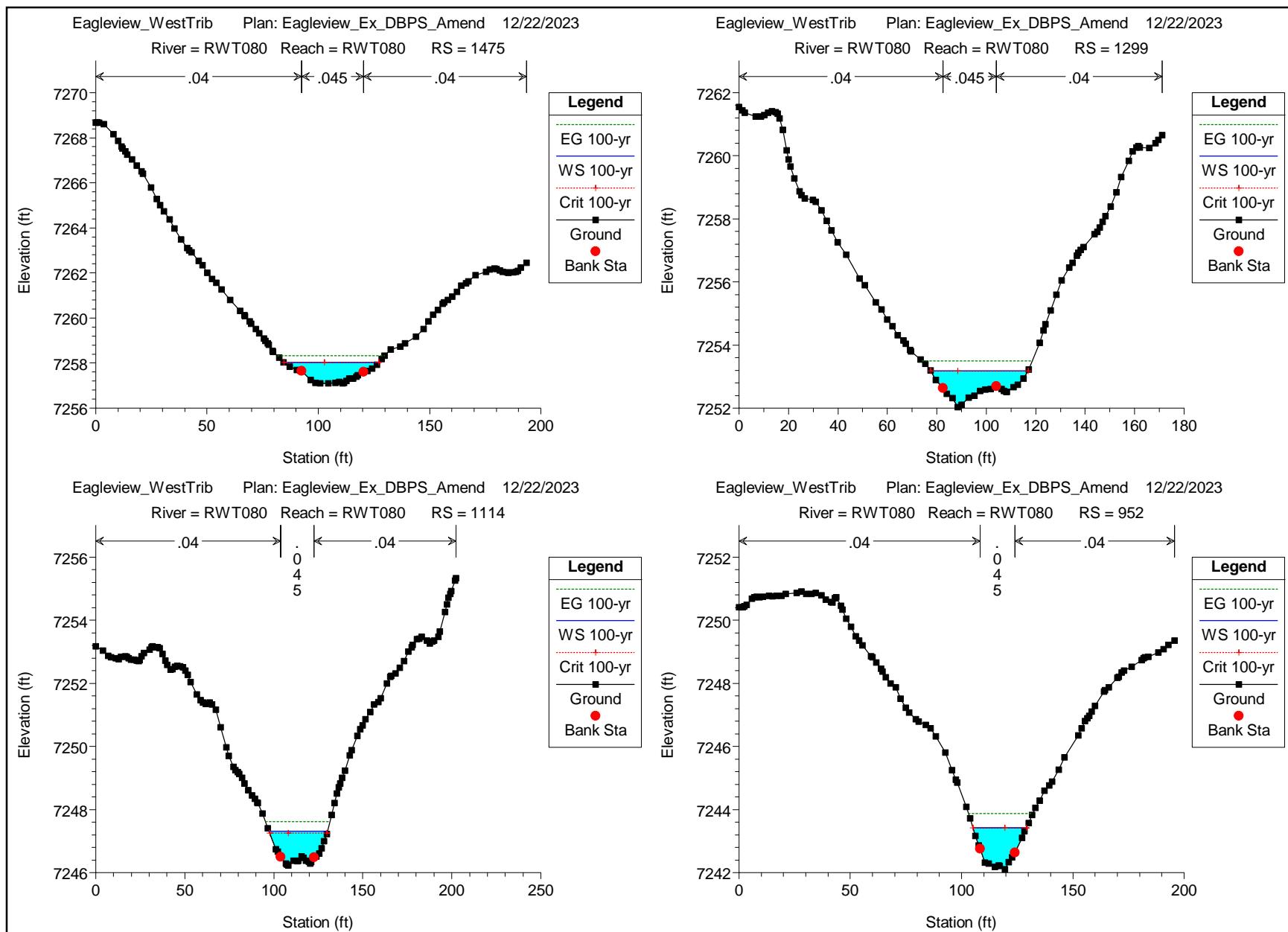


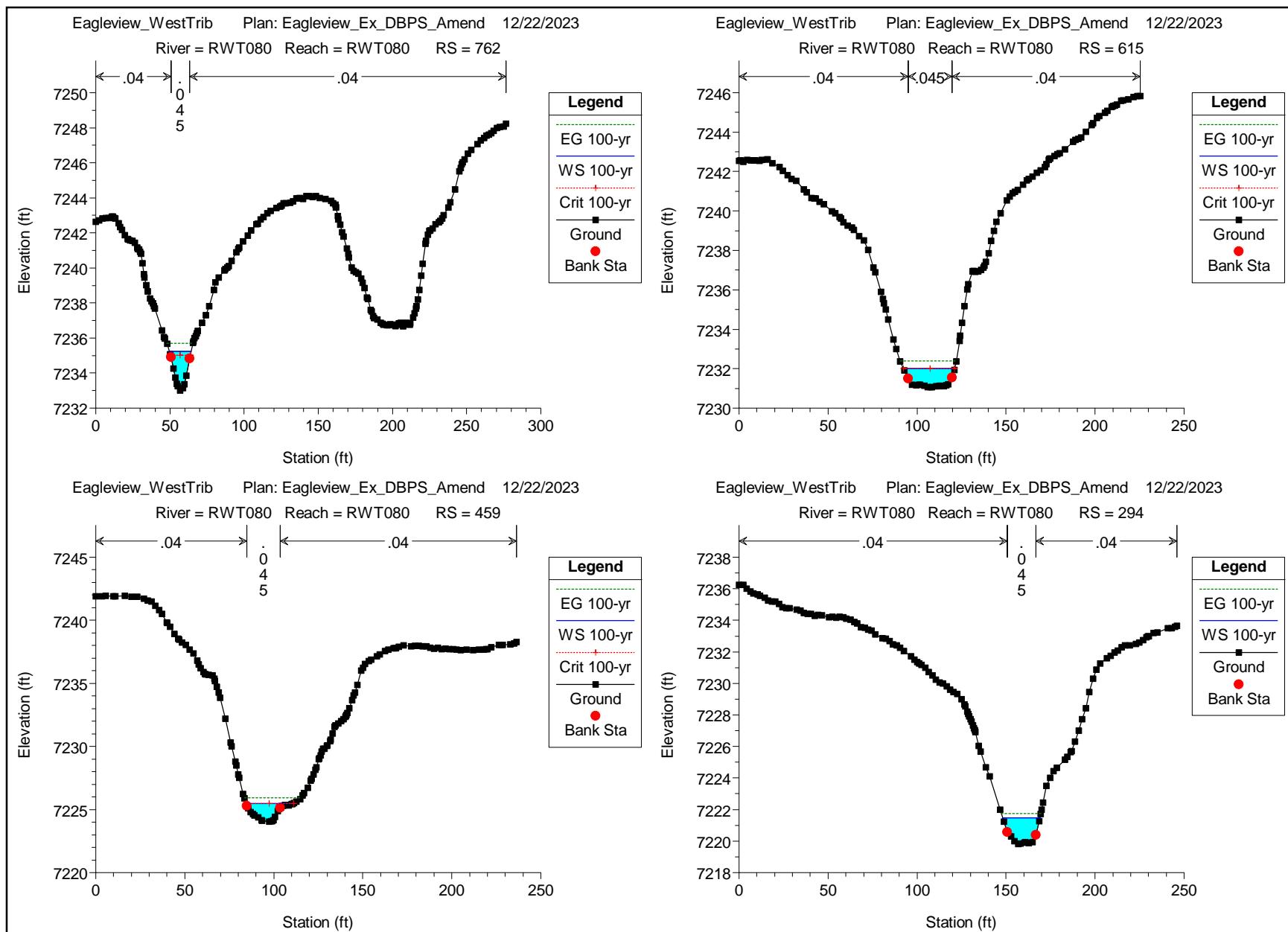


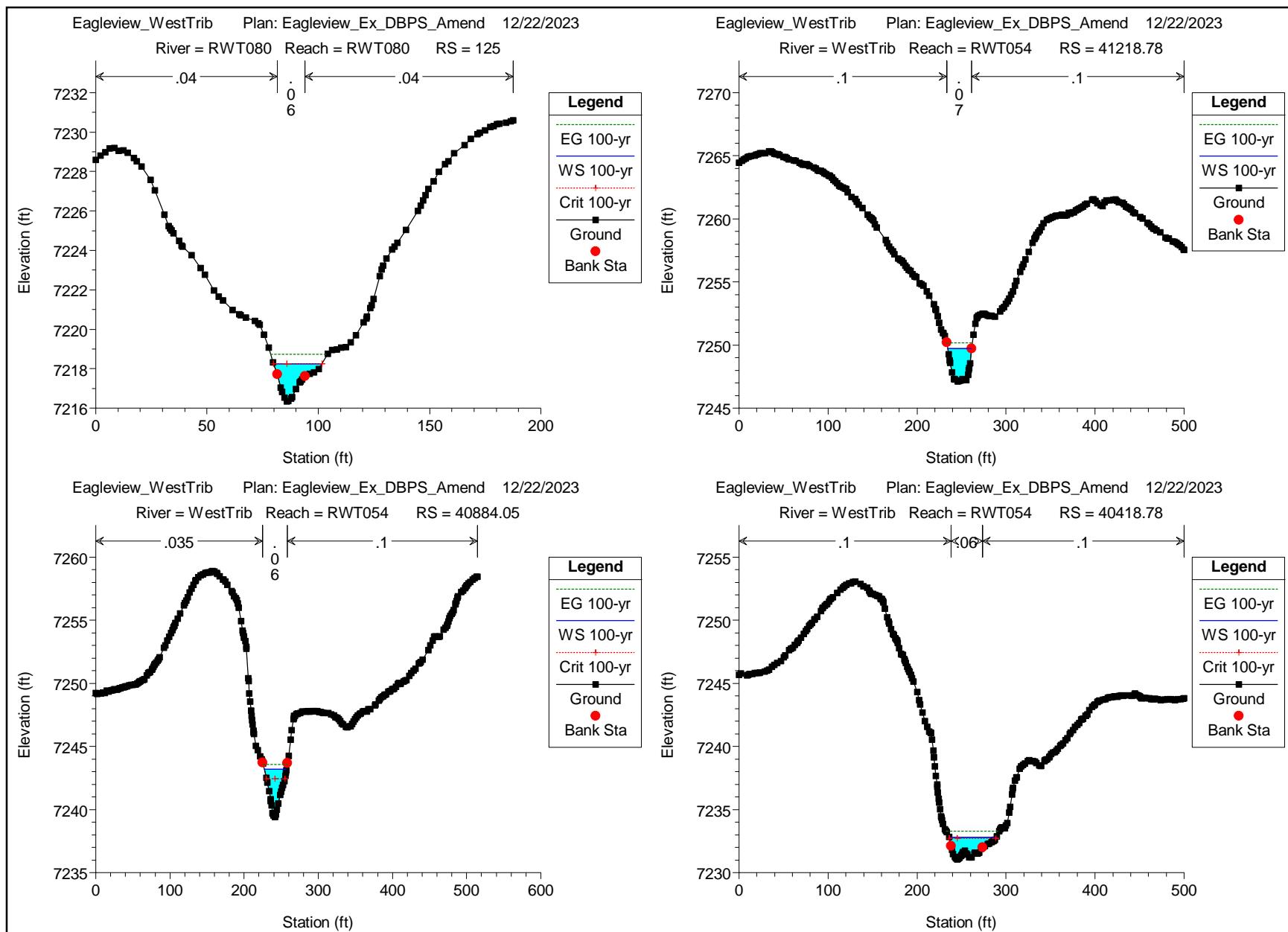


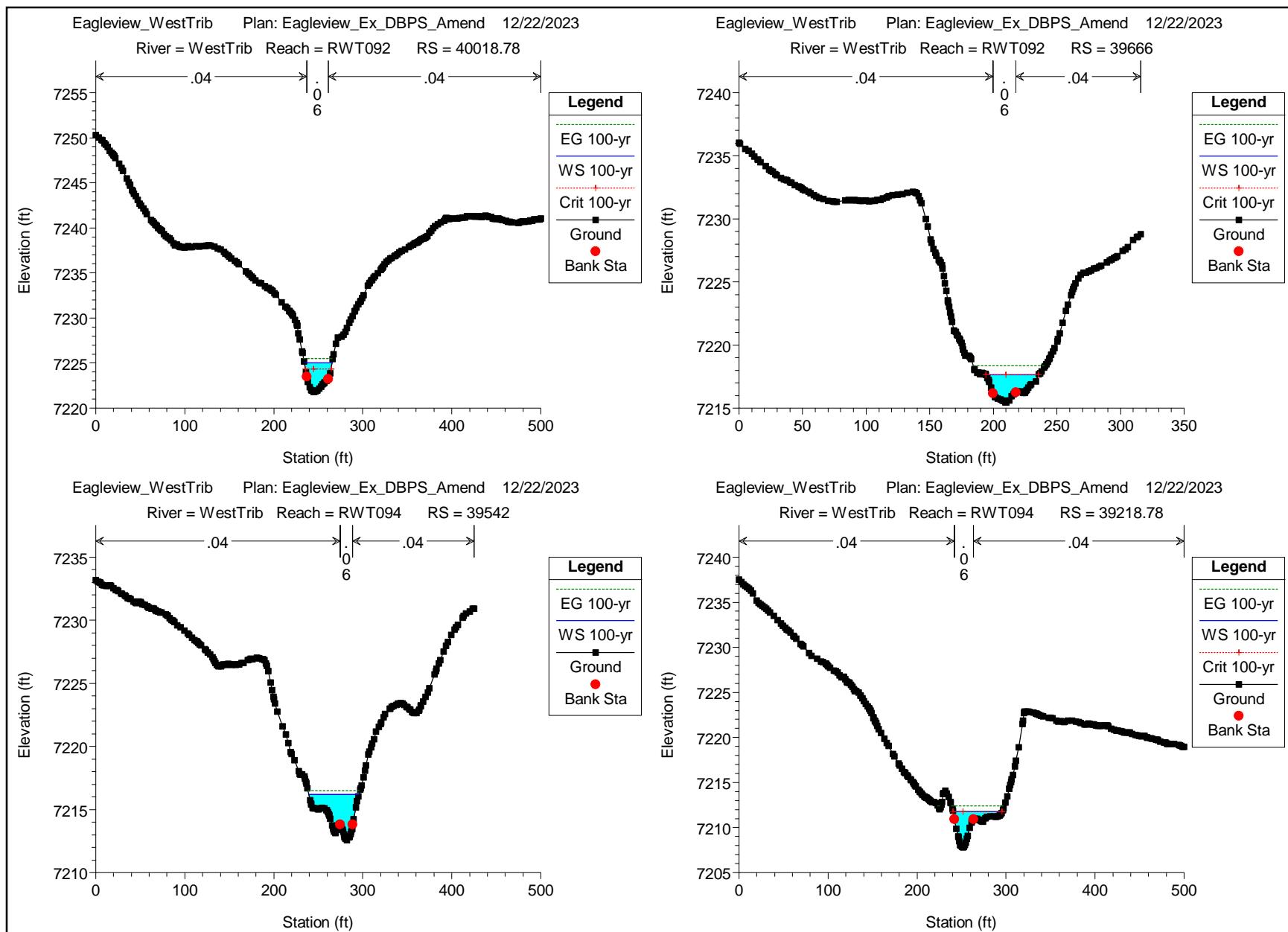
HEC-RAS Plan: Ex_DBPS_Amend Profile: 100-yr

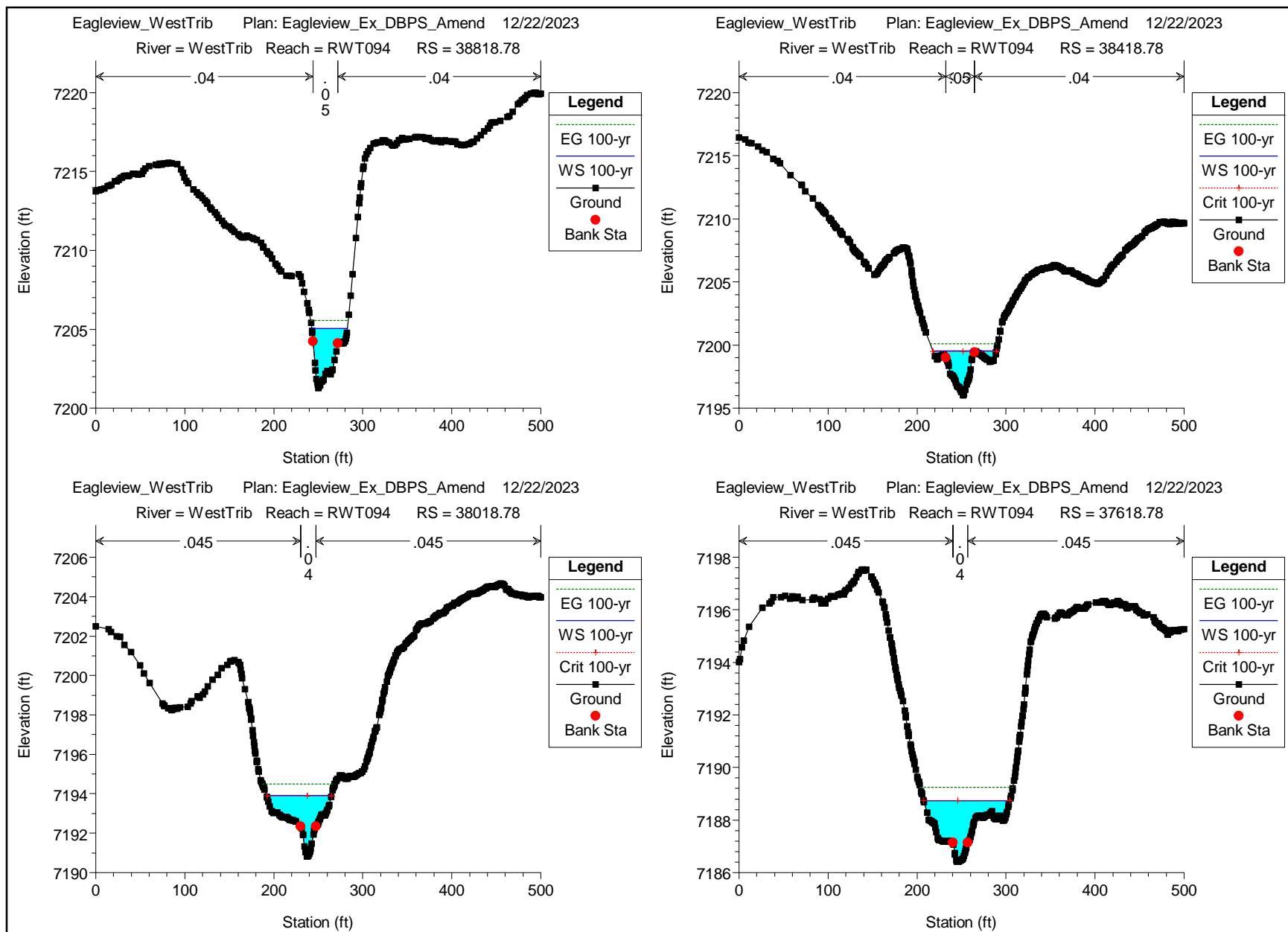
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
WestTrib	RWT054	41218.78	100-yr	285.00	7247.13	7249.95		7250.31	0.018854	4.76	59.87	28.01	0.57
WestTrib	RWT054	40884.05	100-yr	285.00	7239.41	7243.85	7242.45	7244.04	0.018267	3.53	80.86	34.51	0.40
WestTrib	RWT054	40418.78	100-yr	285.00	7231.04	7233.30		7233.50	0.028680	3.77	83.64	59.72	0.49
WestTrib	RWT092	40018.78	100-yr	375.00	7221.79	7225.74	7224.36	7225.99	0.014303	3.94	93.70	33.92	0.38
WestTrib	RWT092	39666	100-yr	375.00	7215.46	7217.95	7217.76	7218.46	0.035530	4.70	69.87	52.16	0.56
WestTrib	RWT094	39542	100-yr	478.00	7212.56	7216.52		7216.77	0.008165	3.03	125.66	58.70	0.29
WestTrib	RWT094	39218.78	100-yr	478.00	7207.80	7212.07		7212.47	0.027829	4.90	95.16	57.21	0.51
WestTrib	RWT094	38818.78	100-yr	478.00	7201.28	7205.27		7205.69	0.011630	5.31	93.31	40.73	0.55
WestTrib	RWT094	38418.78	100-yr	478.00	7196.01	7199.55	7199.49	7200.10	0.016669	6.25	86.43	71.63	0.75
WestTrib	RWT094	38018.78	100-yr	502.00	7190.82	7193.92	7193.89	7194.49	0.012139	7.22	97.33	73.20	0.82
WestTrib	RWT094	37618.78	100-yr	502.00	7186.41	7188.73	7188.73	7189.24	0.014100	7.17	103.73	96.78	0.87
WestTrib	RWT094	37218.78	100-yr	502.00	7181.04	7183.38	7183.38	7183.92	0.009919	6.32	97.73	108.66	0.82
RWT080	RWT080	1475	100-yr	107.00	7257.10	7258.03	7258.03	7258.33	0.026387	4.53	25.34	42.71	0.91
RWT080	RWT080	1299	100-yr	107.00	7252.03	7253.19	7253.19	7253.50	0.029085	4.77	24.27	39.39	0.95
RWT080	RWT080	1114	100-yr	107.00	7246.23	7247.32	7247.26	7247.62	0.021513	4.67	24.82	33.00	0.85
RWT080	RWT080	952	100-yr	107.00	7242.11	7243.43	7243.43	7243.88	0.024629	5.56	20.70	24.06	0.93
RWT080	RWT080	762	100-yr	107.00	7233.00	7235.23	7235.02	7235.71	0.017553	5.57	19.47	14.63	0.80
RWT080	RWT080	615	100-yr	107.00	7231.06	7232.01	7232.01	7232.40	0.029365	5.04	21.79	28.83	0.97
RWT080	RWT080	459	100-yr	107.00	7224.03	7225.49	7225.49	7225.93	0.025019	5.34	20.86	26.59	0.92
RWT080	RWT080	294	100-yr	107.00	7219.80	7221.48		7221.76	0.010406	4.31	25.99	21.05	0.63
RWT080	RWT080	125	100-yr	107.00	7216.33	7218.26	7218.26	7218.72	0.037599	5.67	20.02	21.68	0.87

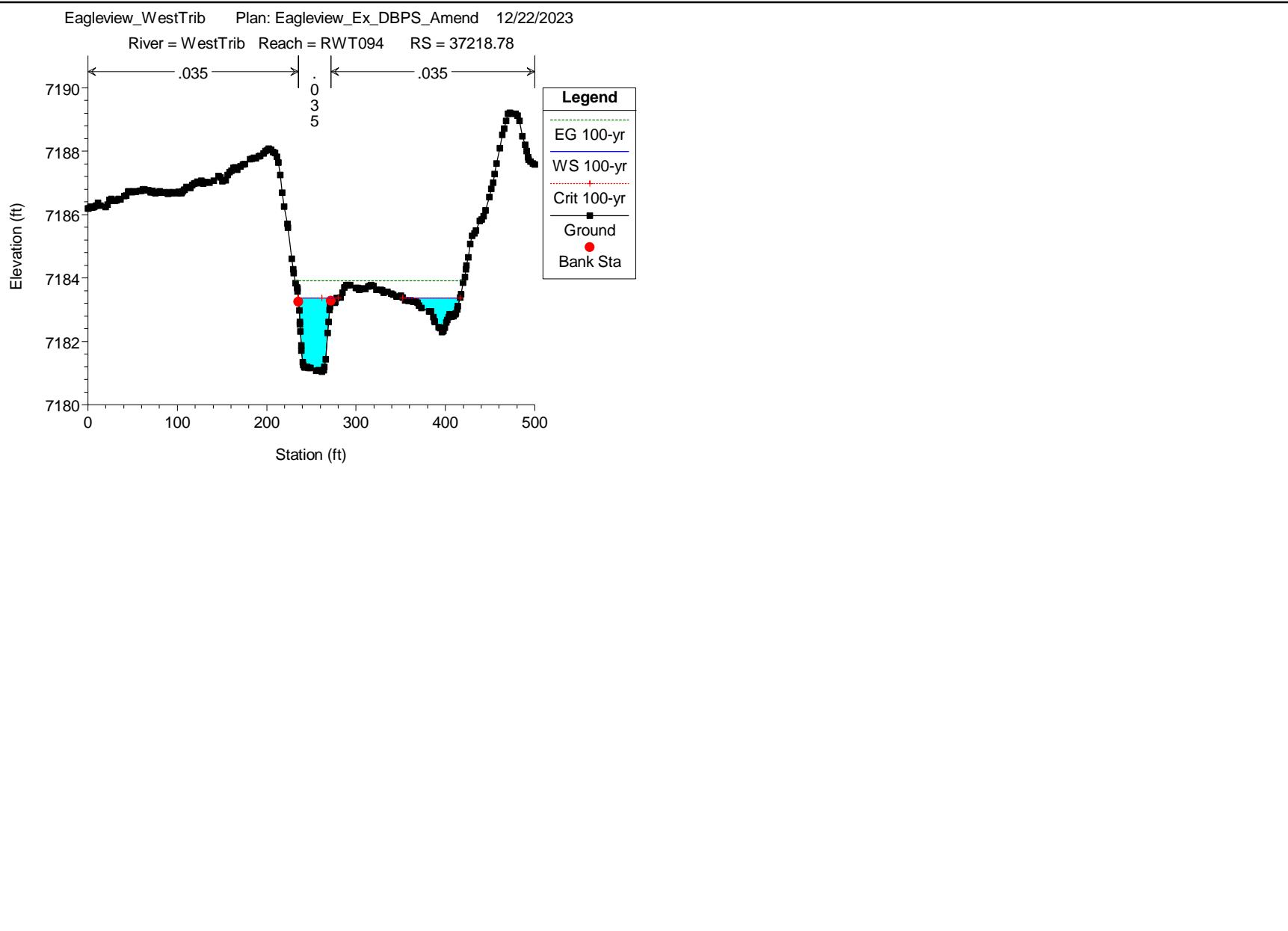




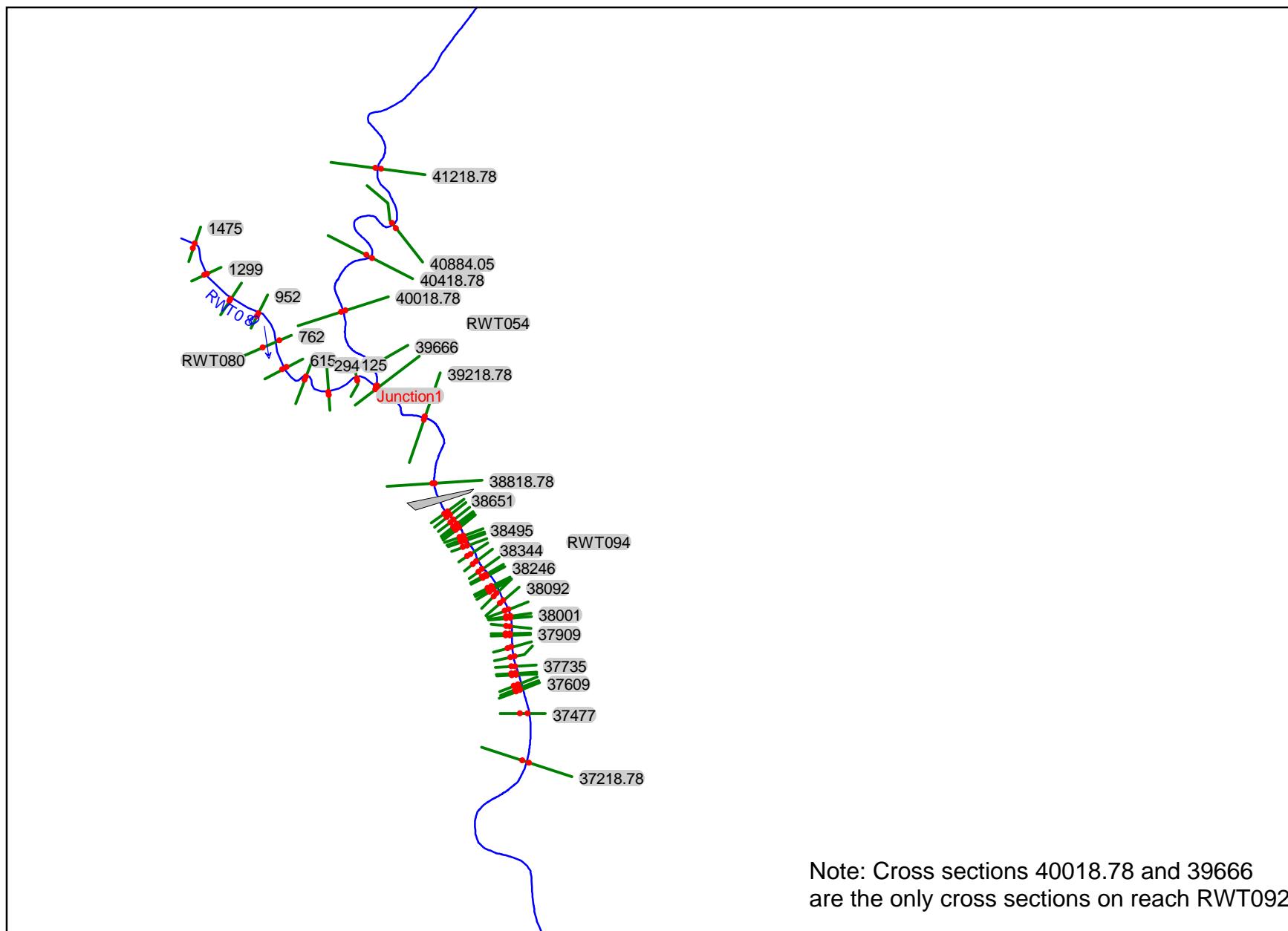


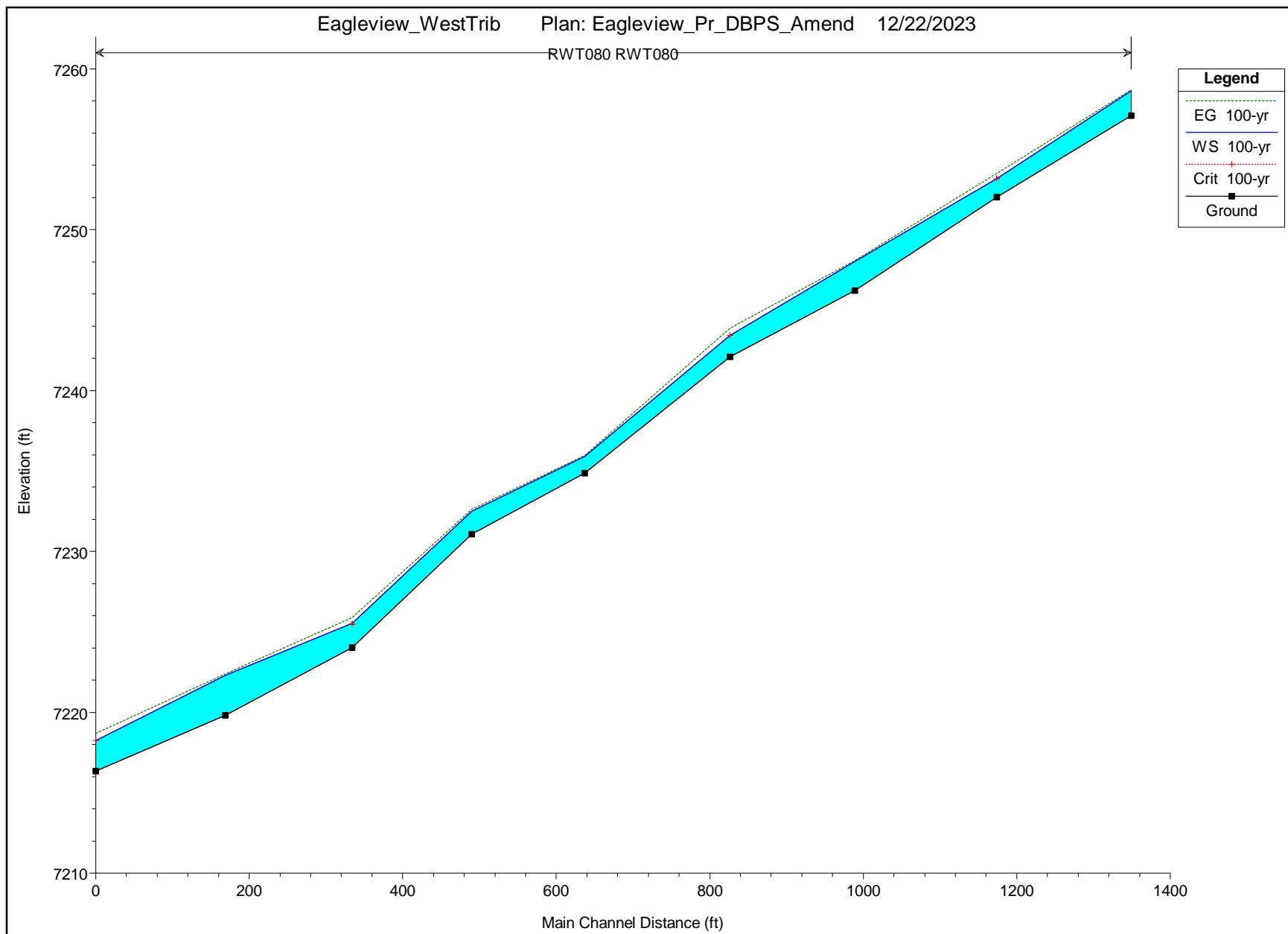


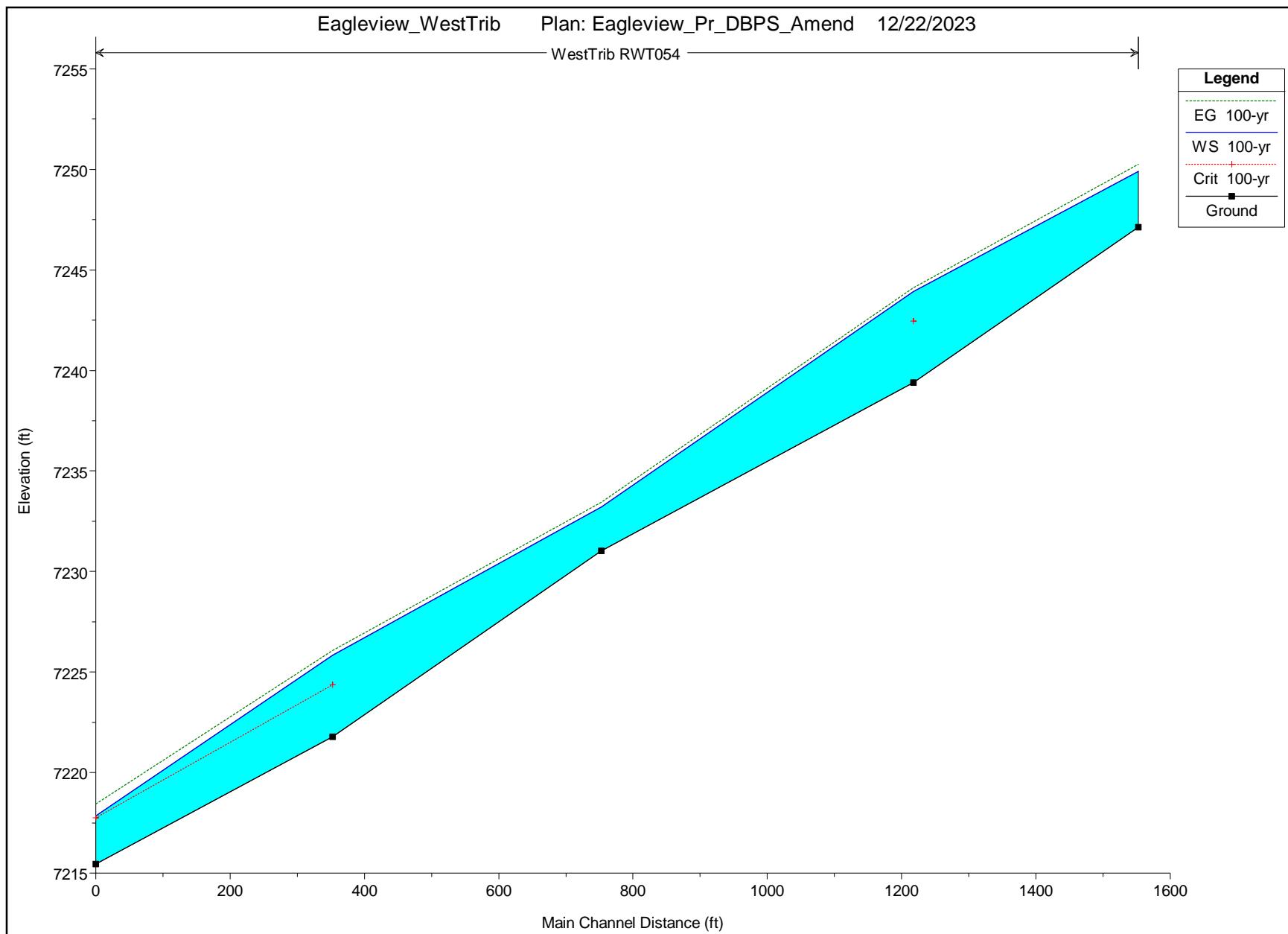


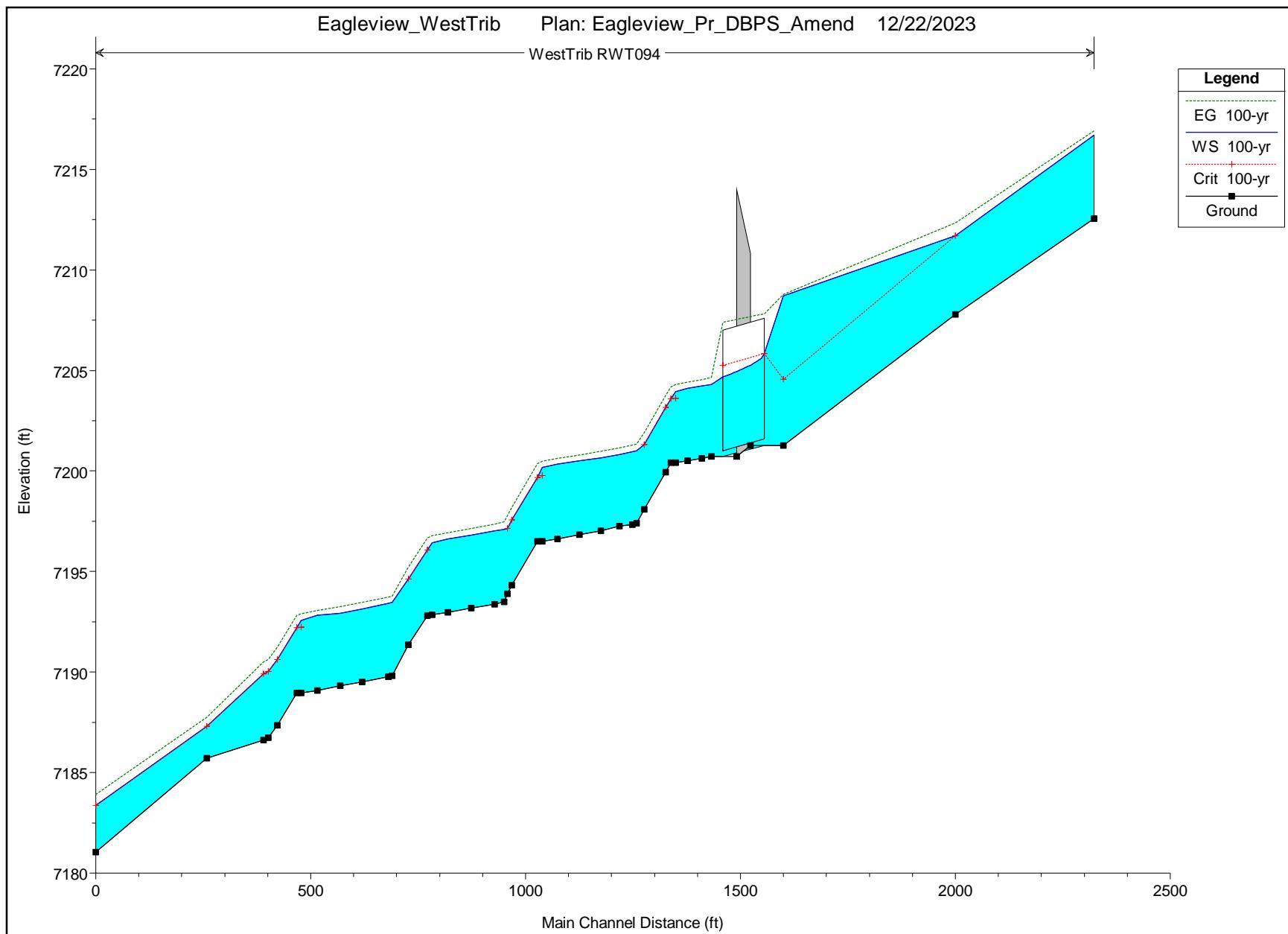


PROPOSED CONDITIONS HEC-RAS RESULTS









Identify segments that are outside of the project area

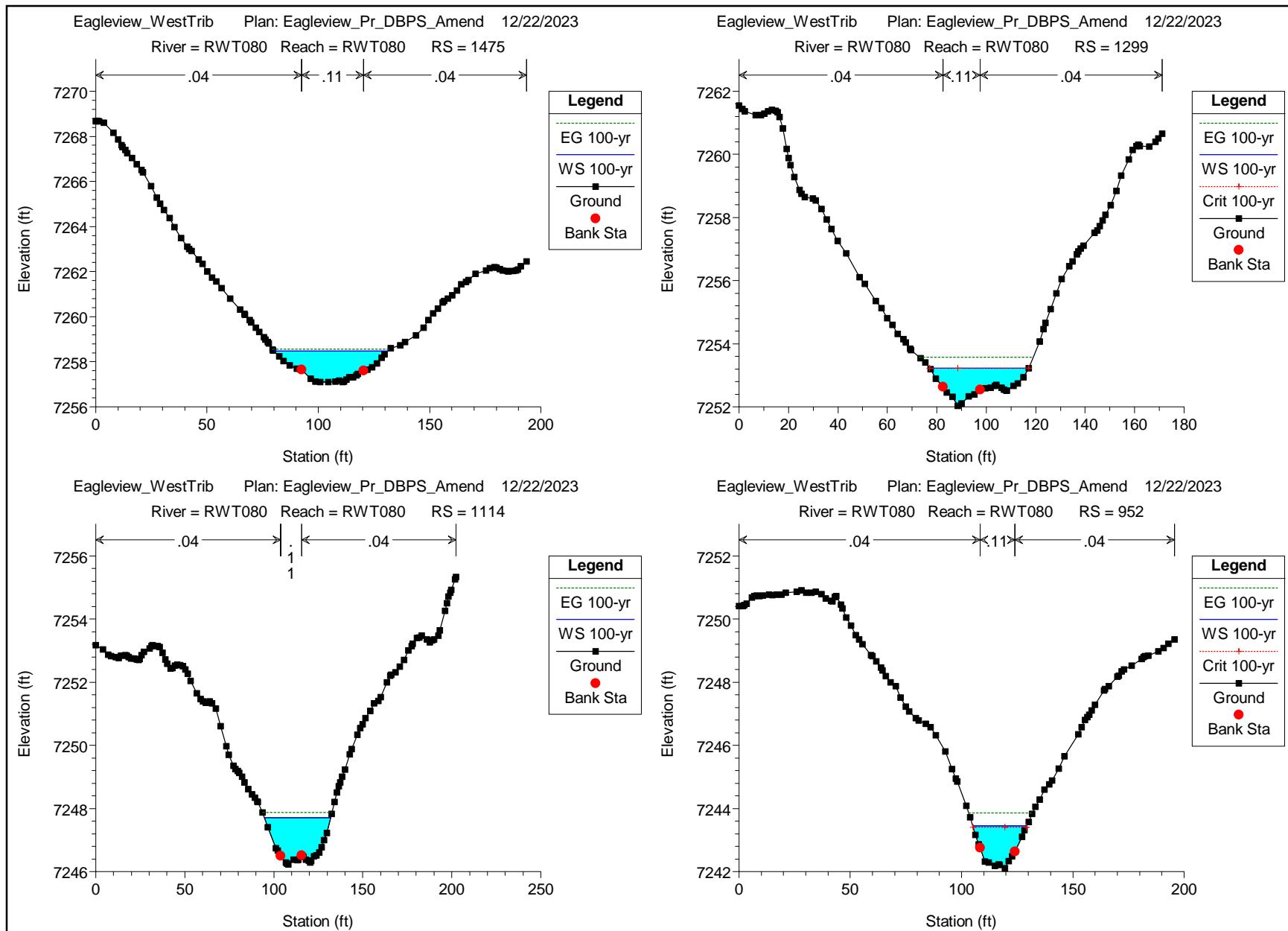
HEC-RAS Plan: Pr_DBPS_Amend Profile: 100-yr

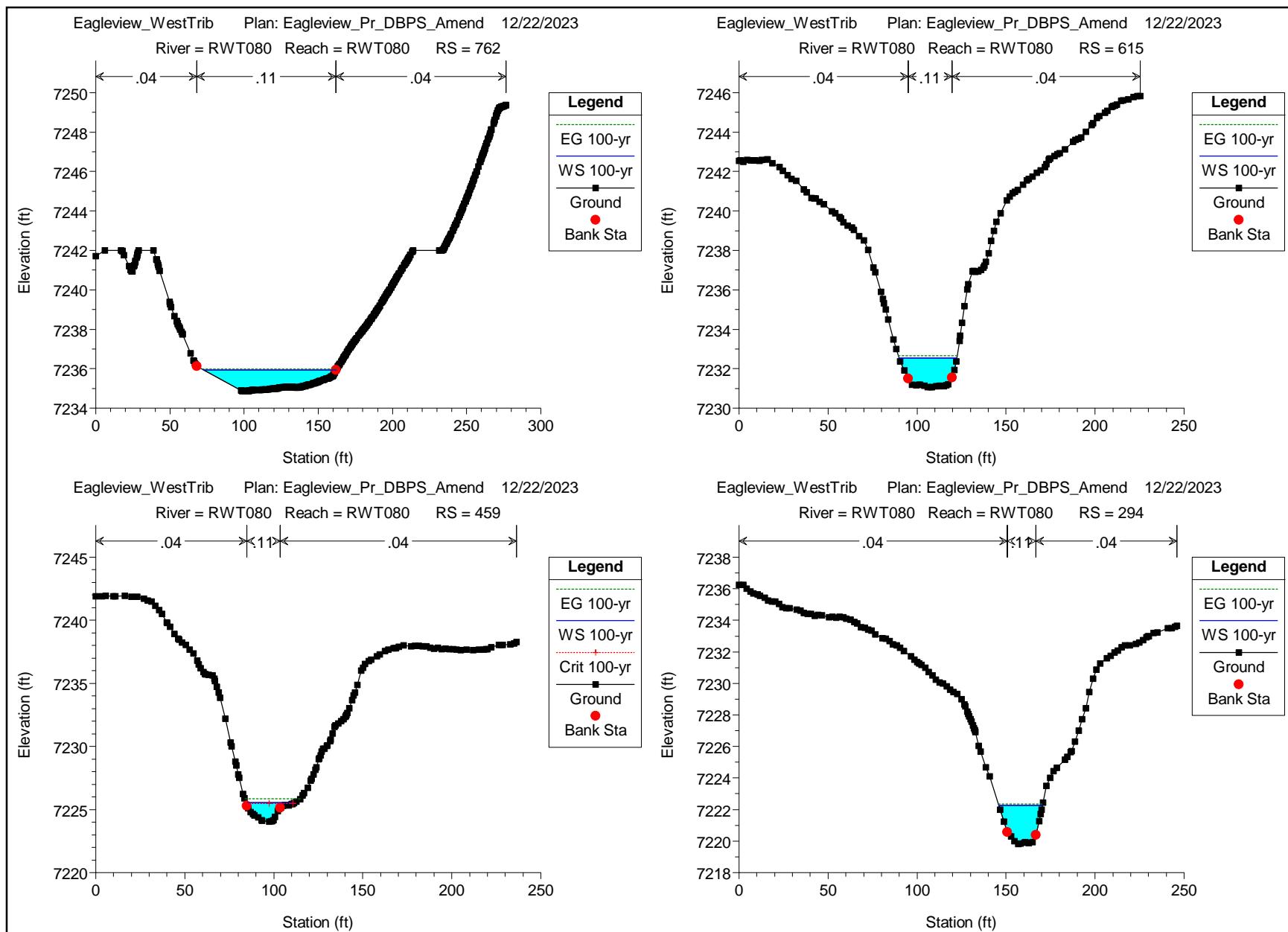
River	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
WestTrib	RWT054	41218.78	100-yr	285.00	7247.13	7249.59		7250.10	0.032349	5.70	50.01	26.49	0.73
WestTrib	RWT054	40884.05	100-yr	285.00	7239.41	7244.31	7242.44	7244.44	0.010054	2.94	97.84	39.03	0.31
WestTrib	RWT054	40418.78	100-yr	285.00	7231.04	7232.73	7232.73	7233.25	0.114739	5.91	51.94	52.47	0.92
WestTrib	RWT092	40018.78	100-yr	375.00	7221.79	7224.34	7224.34	7225.31	0.001189	7.91	49.78	28.85	1.00
WestTrib	RWT092	39666	100-yr	375.00	7215.46	7217.84	7217.76	7218.44	0.044744	5.10	64.46	50.21	0.62
WestTrib	RWT094	39542	100-yr	478.00	7212.56	7216.69		7216.91	0.006388	2.77	135.72	59.96	0.26
WestTrib	RWT094	39218.78	100-yr	478.00	7207.80	7211.70	7211.70	7212.35	0.059328	6.71	74.11	54.63	0.73
WestTrib	RWT094	38818.78	100-yr	480.00	7201.28	7208.73	7204.57	7208.78	0.000431	1.85	272.24	81.57	0.12
WestTrib	RWT094	38726		Culvert									
WestTrib	RWT094	38651	100-yr	480.00	7200.72	7204.30		7204.65	0.004172	5.41	116.59	81.46	0.57
WestTrib	RWT094	38628	100-yr	480.00	7200.62	7204.23		7204.54	0.003752	5.14	125.43	89.65	0.54
WestTrib	RWT094	38596	100-yr	480.00	7200.50	7204.11		7204.42	0.003748	5.19	126.68	93.03	0.54
WestTrib	RWT094	38567	100-yr	480.00	7200.41	7203.95	7203.61	7204.29	0.005231	5.35	121.13	89.62	0.56
WestTrib	RWT094	38557	100-yr	480.00	7200.41	7203.59	7203.59	7204.20	0.010483	6.87	90.84	78.96	0.78
WestTrib	RWT094	38545	100-yr	480.00	7199.94	7203.17	7203.17	7203.75	0.009839	6.76	92.87	78.99	0.76
WestTrib	RWT094	38495	100-yr	480.00	7198.10	7201.31	7201.31	7201.91	0.010311	6.92	89.32	71.16	0.77
WestTrib	RWT094	38477	100-yr	480.00	7197.41	7201.01		7201.33	0.004722	5.19	119.77	74.49	0.54
WestTrib	RWT094	38467	100-yr	480.00	7197.34	7200.96		7201.28	0.004782	5.20	119.36	74.88	0.54
WestTrib	RWT094	38437	100-yr	480.00	7197.25	7200.82		7201.16	0.004035	5.33	116.60	75.41	0.56
WestTrib	RWT094	38394	100-yr	480.00	7197.03	7200.66		7200.98	0.003736	5.21	120.89	78.68	0.54
WestTrib	RWT094	38344	100-yr	480.00	7196.84	7200.51		7200.79	0.003332	4.95	127.51	81.24	0.51
WestTrib	RWT094	38293	100-yr	480.00	7196.62	7200.34		7200.63	0.003218	4.92	129.53	83.97	0.50
WestTrib	RWT094	38257	100-yr	502.00	7196.50	7200.18	7199.77	7200.49	0.004615	5.18	131.76	92.22	0.53
WestTrib	RWT094	38246	100-yr	502.00	7196.50	7199.68	7199.68	7200.37	0.011966	7.39	89.74	81.66	0.83
WestTrib	RWT094	38186	100-yr	502.00	7194.32	7197.58	7197.58	7198.18	0.010192	6.95	95.31	80.68	0.77
WestTrib	RWT094	38176	100-yr	502.00	7193.90	7197.15	7197.15	7197.78	0.010546	7.00	93.46	78.16	0.78
WestTrib	RWT094	38169	100-yr	502.00	7193.50	7197.11		7197.47	0.005551	5.54	120.58	86.18	0.58
WestTrib	RWT094	38146	100-yr	502.00	7193.38	7197.02		7197.35	0.003922	5.35	126.30	88.52	0.55
WestTrib	RWT094	38092	100-yr	502.00	7193.18	7196.82		7197.14	0.003729	5.23	128.16	85.21	0.54
WestTrib	RWT094	38038	100-yr	502.00	7192.97	7196.63		7196.94	0.003694	5.21	130.14	89.33	0.54
WestTrib	RWT094	38001	100-yr	502.00	7192.84	7196.43		7196.78	0.005331	5.49	125.19	92.62	0.57
WestTrib	RWT094	37990	100-yr	502.00	7192.81	7196.06	7196.06	7196.67	0.010335	6.93	95.15	81.54	0.77
WestTrib	RWT094	37946	100-yr	502.00	7191.35	7194.63	7194.63	7195.22	0.009868	6.88	97.36	84.27	0.76
WestTrib	RWT094	37909	100-yr	502.00	7189.81	7193.46		7193.77	0.004712	5.17	131.16	91.54	0.54
WestTrib	RWT094	37900	100-yr	502.00	7189.78	7193.42		7193.73	0.004722	5.20	130.51	90.17	0.54
WestTrib	RWT094	37838	100-yr	502.00	7189.50	7193.14		7193.46	0.003848	5.30	130.81	96.05	0.55
WestTrib	RWT094	37787	100-yr	502.00	7189.31	7192.93		7193.27	0.003980	5.37	130.55	100.92	0.56
WestTrib	RWT094	37735	100-yr	502.00	7189.09	7192.83		7193.06	0.002753	4.58	153.86	106.97	0.46
WestTrib	RWT094	37696	100-yr	502.00	7188.97	7192.57	7192.23	7192.91	0.005231	5.43	127.19	95.14	0.56
WestTrib	RWT094	37687	100-yr	502.00	7188.97	7192.22	7192.22	7192.82	0.010177	6.88	96.67	85.74	0.77

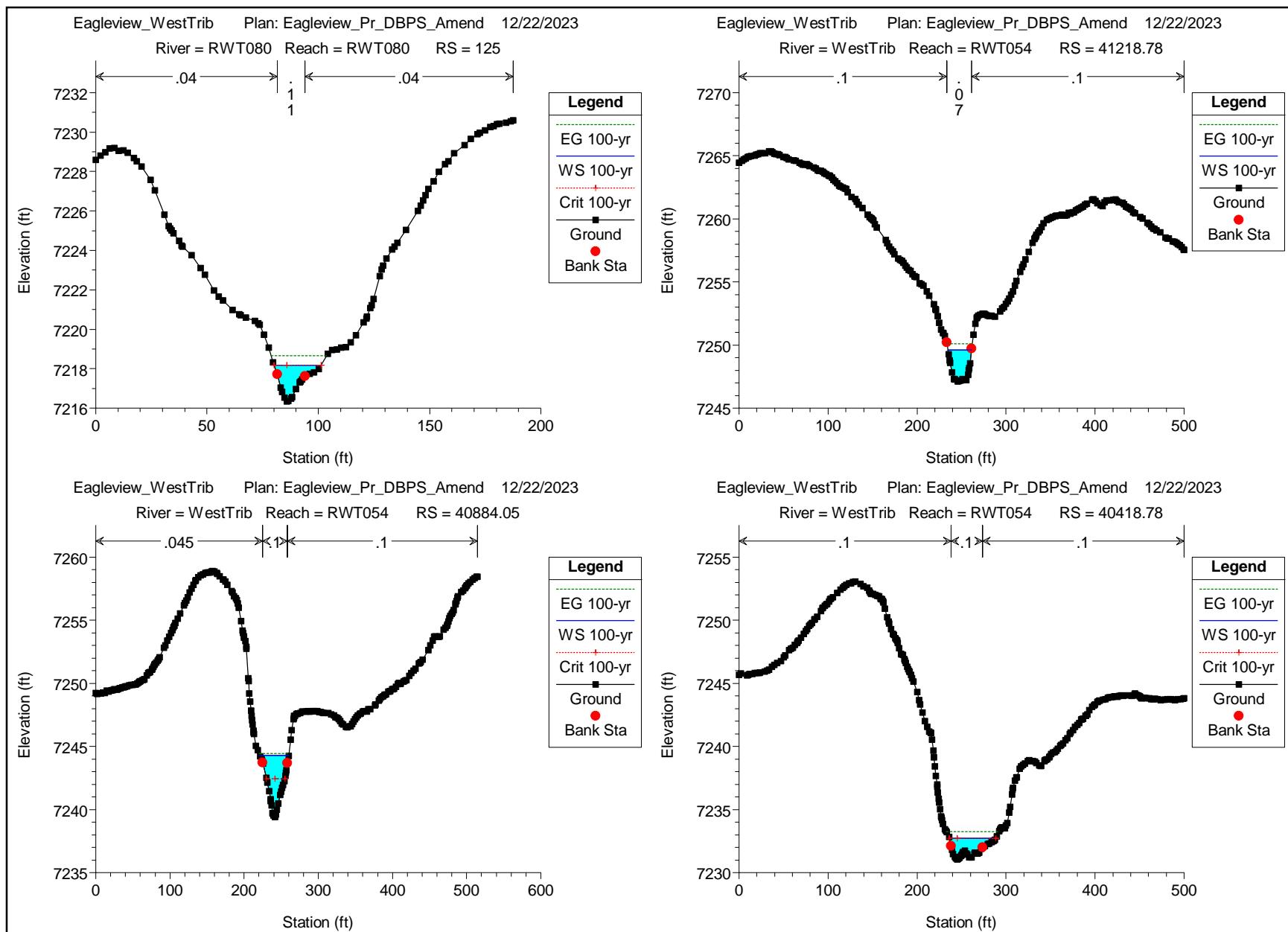
Add shear stress calculations to this or another table

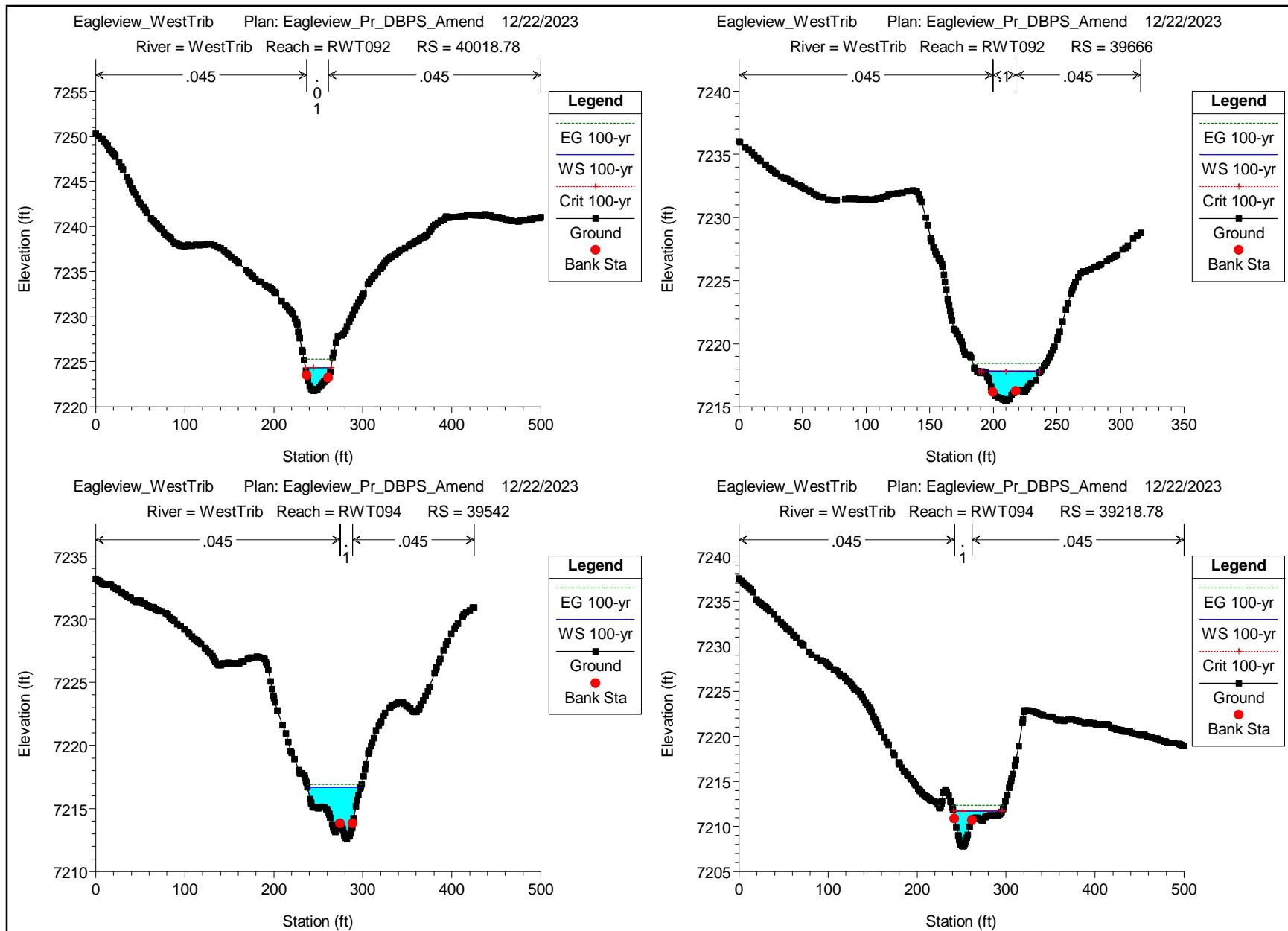
HEC-RAS Plan: Pr_DBPS_Amend Profile: 100-yr (Continued)

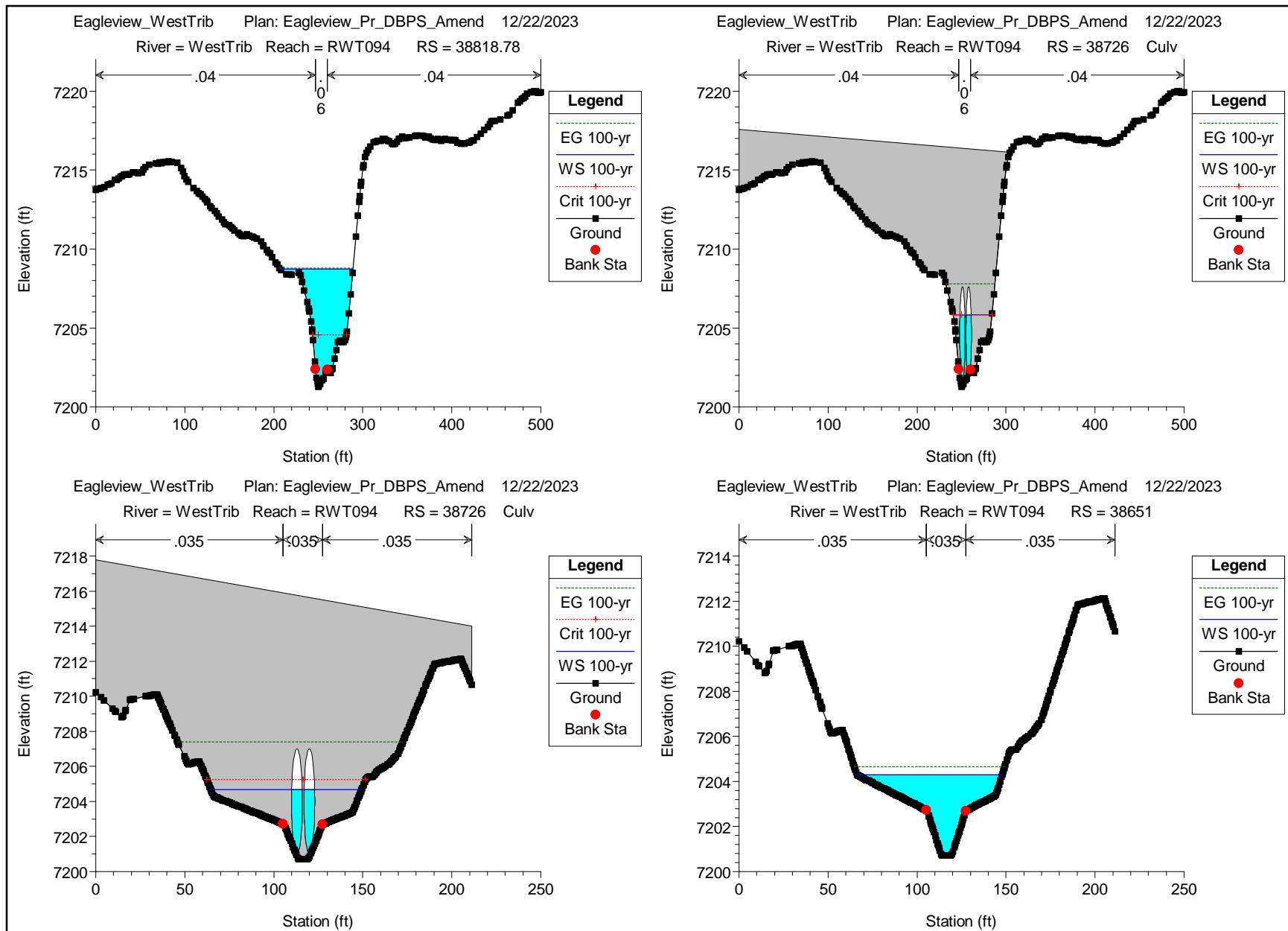
River	Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
WestTrib	RWT094	37641	100-yr	502.00	7187.36	7190.62	7190.62	7191.24	0.010587	7.00	94.92	84.61	0.78
WestTrib	RWT094	37620	100-yr	502.00	7186.74	7190.03	7190.02	7190.62	0.009805	6.88	98.21	87.54	0.76
WestTrib	RWT094	37609	100-yr	502.00	7186.62	7189.90	7189.90	7190.50	0.010047	6.93	97.03	86.07	0.77
WestTrib	RWT094	37477	100-yr	502.00	7185.72	7187.30	7187.30	7187.75	0.012728	6.05	102.10	114.12	0.90
WestTrib	RWT094	37218.78	100-yr	502.00	7181.04	7183.38	7183.38	7183.92	0.009919	6.32	97.73	108.66	0.82
RWT080	RWT080	1475	100-yr	107.00	7257.10	7258.47		7258.56	0.017587	2.04	45.85	51.04	0.33
RWT080	RWT080	1299	100-yr	107.00	7252.03	7253.22	7253.22	7253.58	0.054712	2.95	25.83	40.07	0.55
RWT080	RWT080	1114	100-yr	107.00	7246.23	7247.71		7247.87	0.010595	1.69	38.35	37.18	0.26
RWT080	RWT080	952	100-yr	107.00	7242.11	7243.45	7243.41	7243.86	0.104790	4.76	21.26	24.32	0.79
RWT080	RWT080	762	100-yr	107.00	7234.88	7235.94		7235.98	0.021777	1.63	65.81	89.39	0.33
RWT080	RWT080	615	100-yr	101.00	7231.06	7232.53		7232.65	0.023547	2.54	37.77	32.44	0.38
RWT080	RWT080	459	100-yr	101.00	7224.03	7225.54	7225.47	7225.86	0.105796	4.62	22.08	27.13	0.78
RWT080	RWT080	294	100-yr	101.00	7219.80	7222.26		7222.35	0.008683	2.14	43.64	24.49	0.25
RWT080	RWT080	125	100-yr	101.00	7216.33	7218.18	7218.18	7218.66	0.122960	5.37	18.35	21.05	0.85

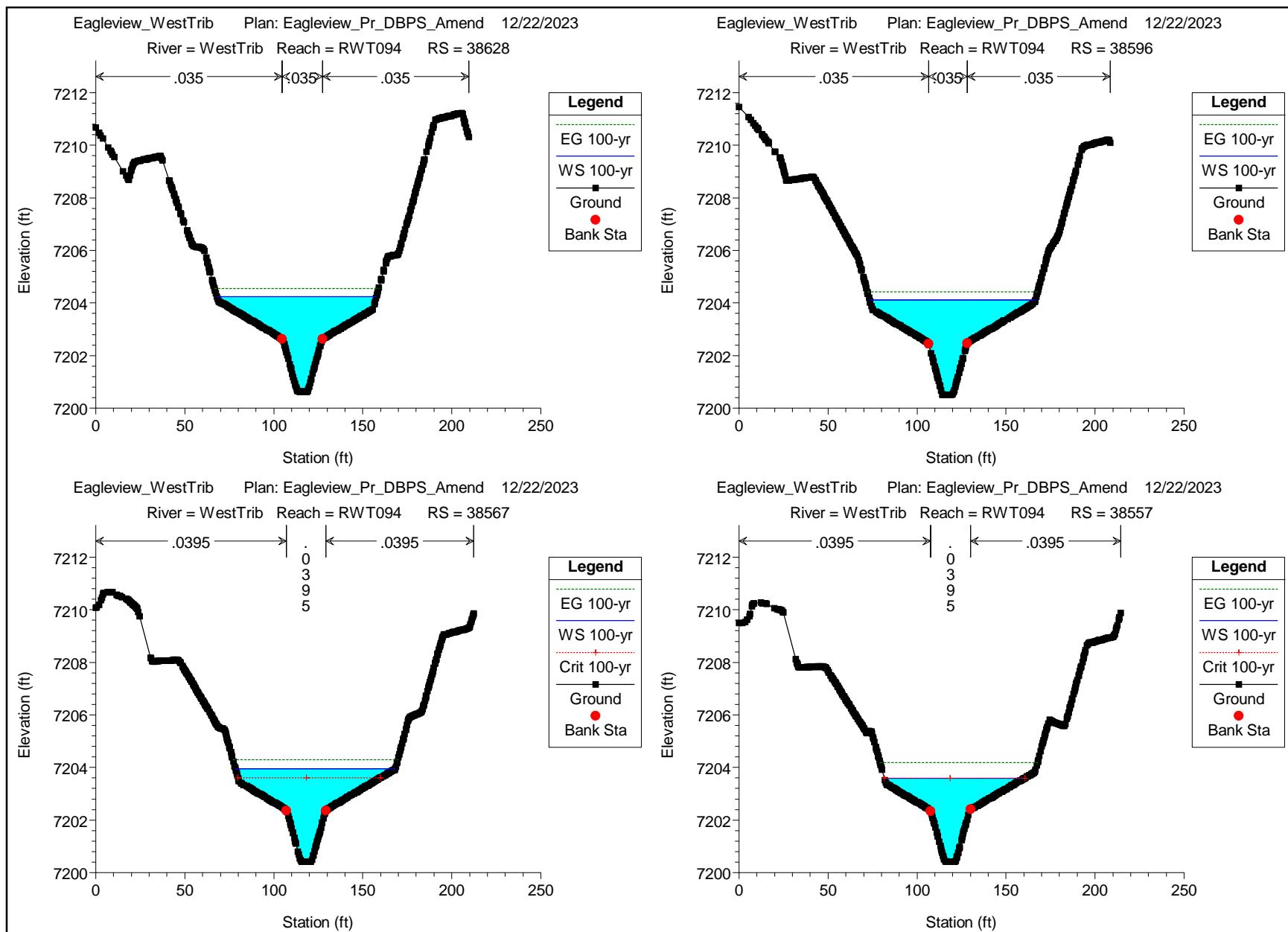


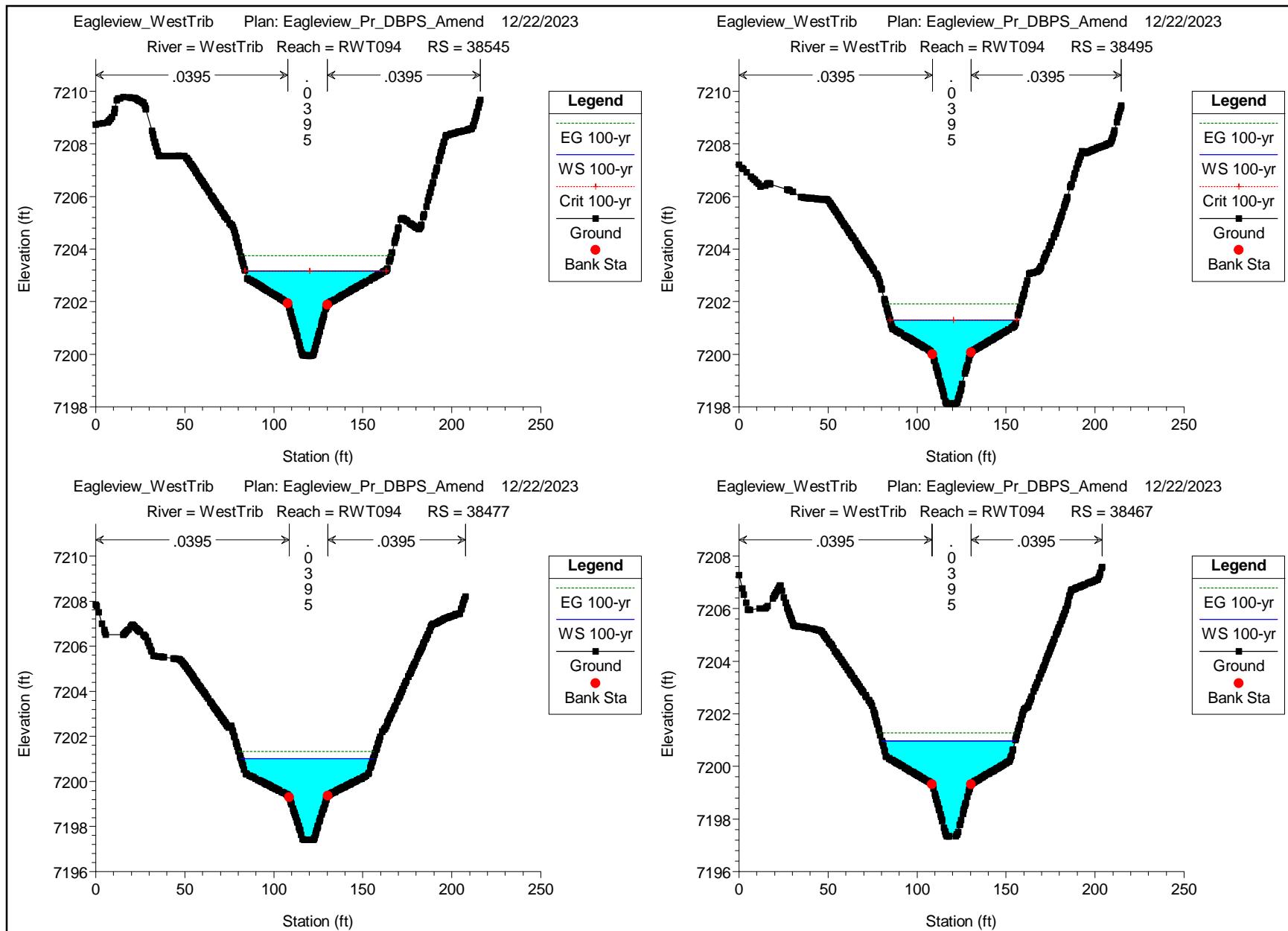


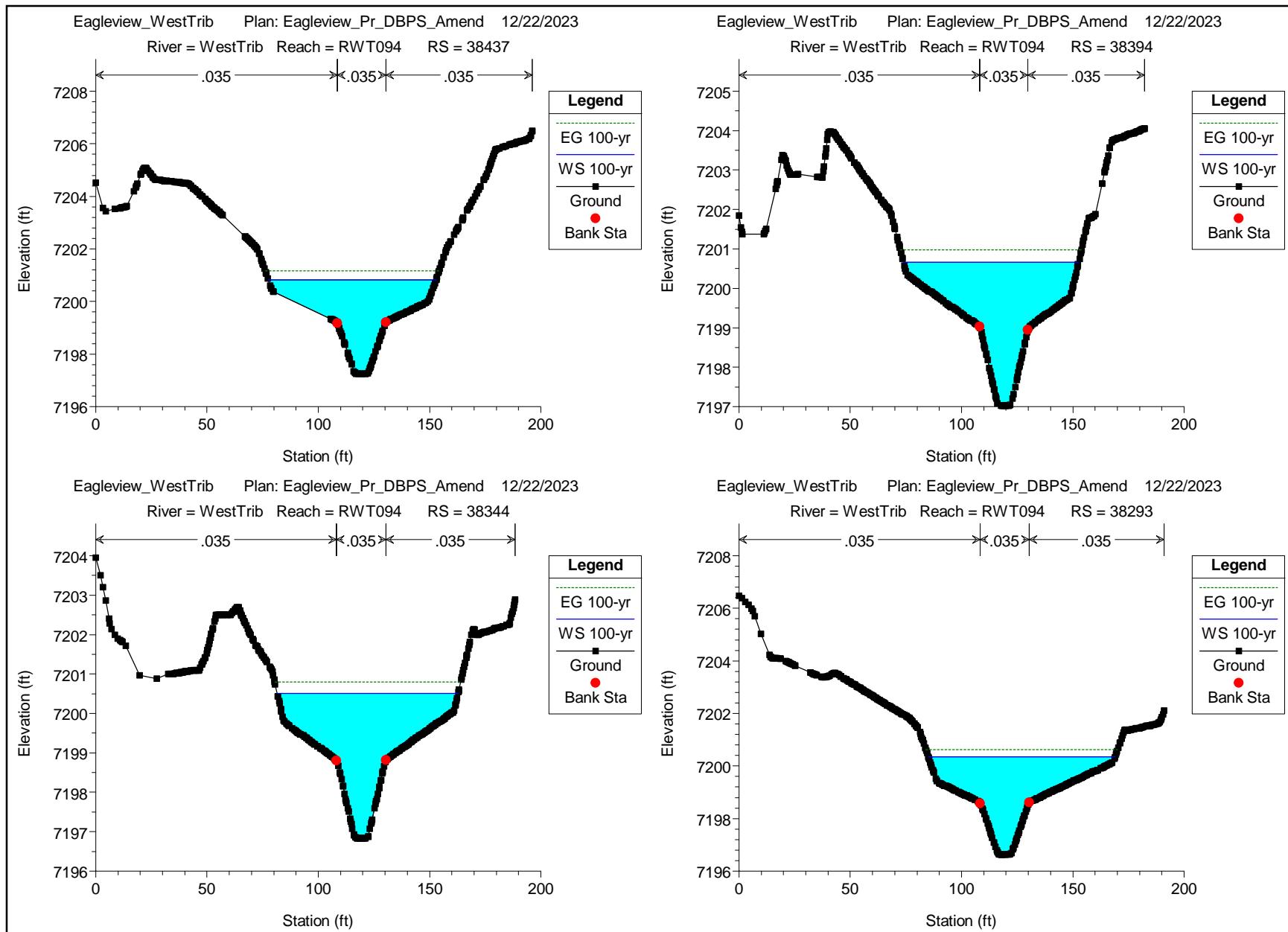


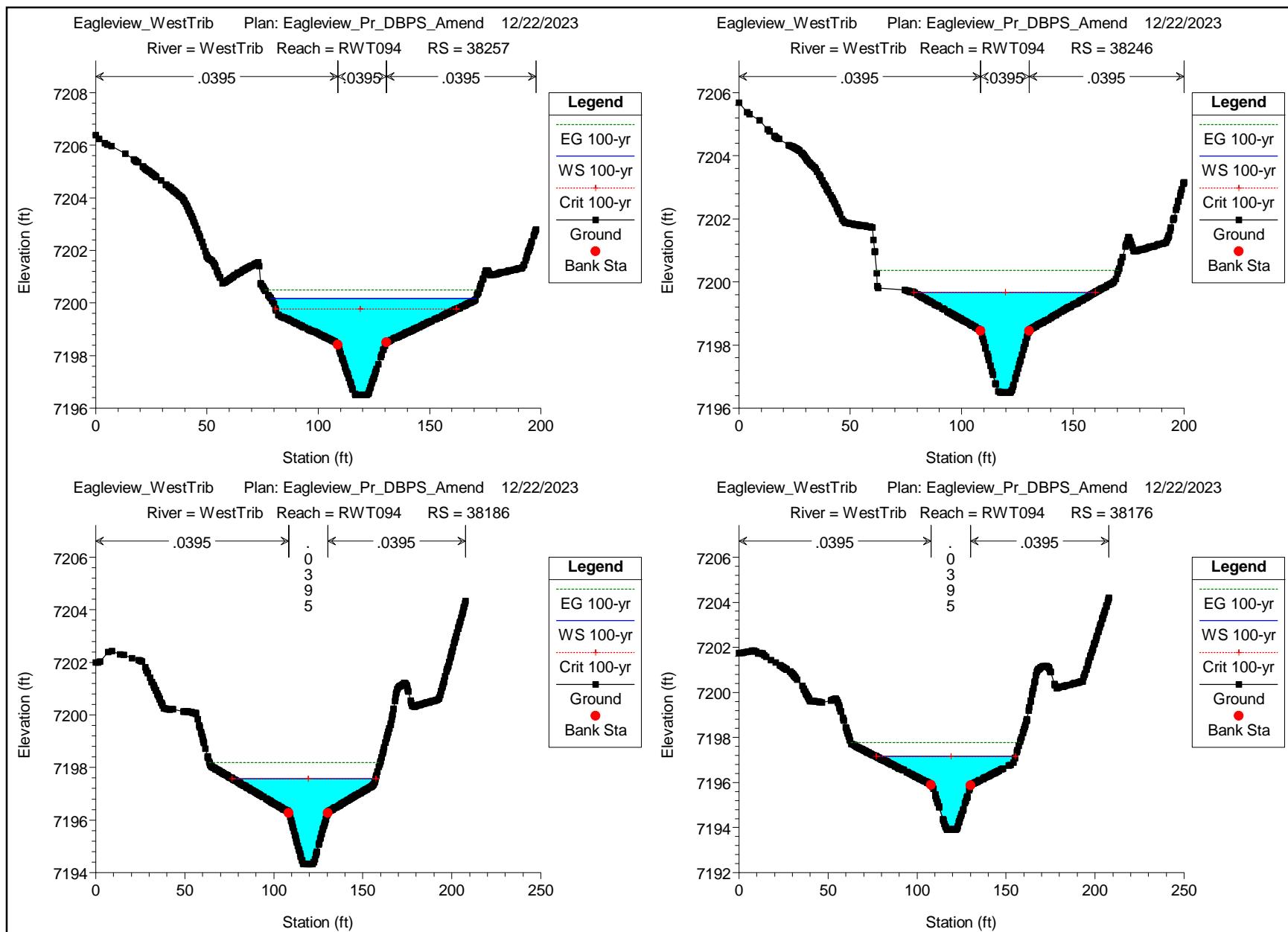


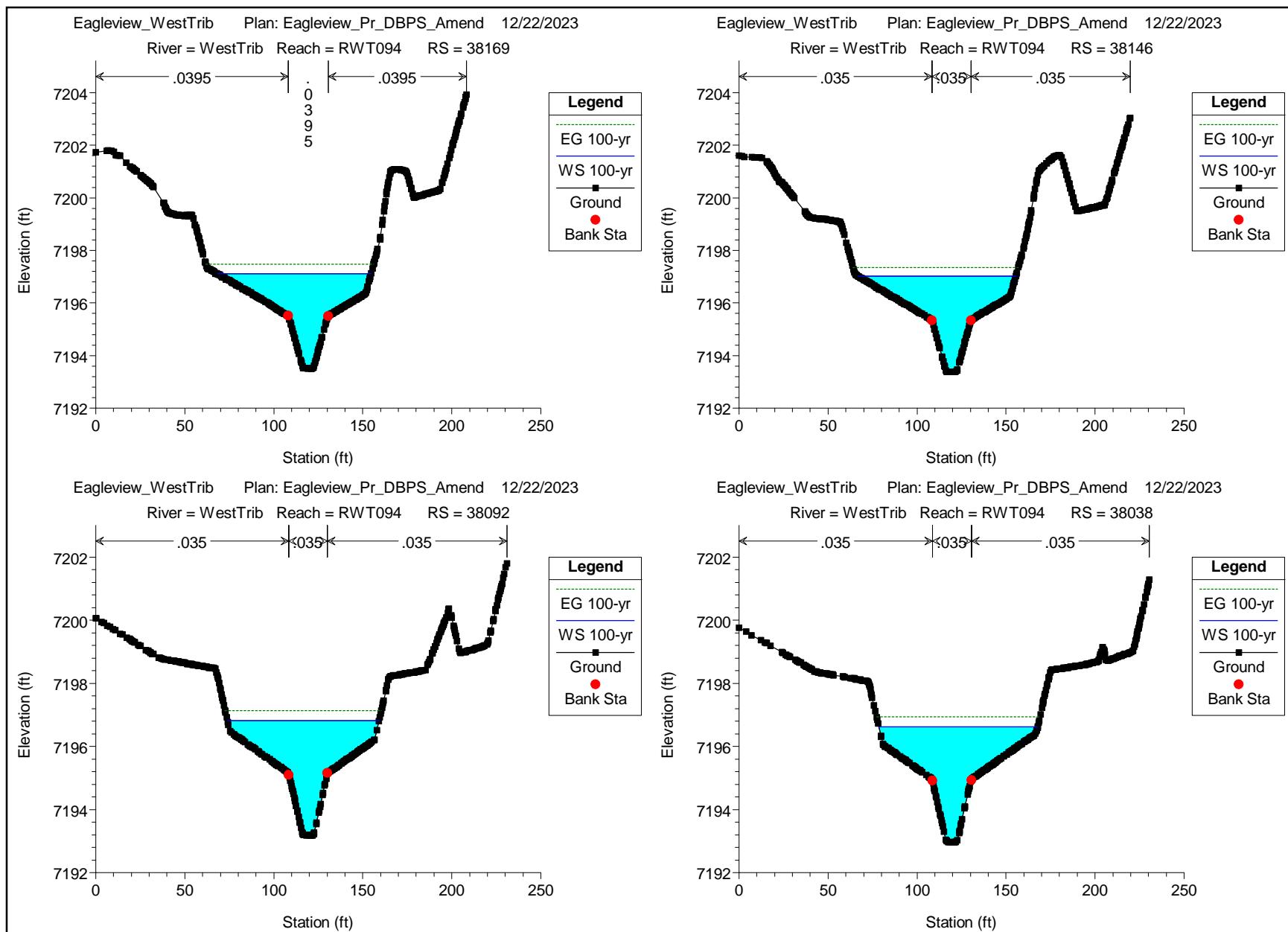


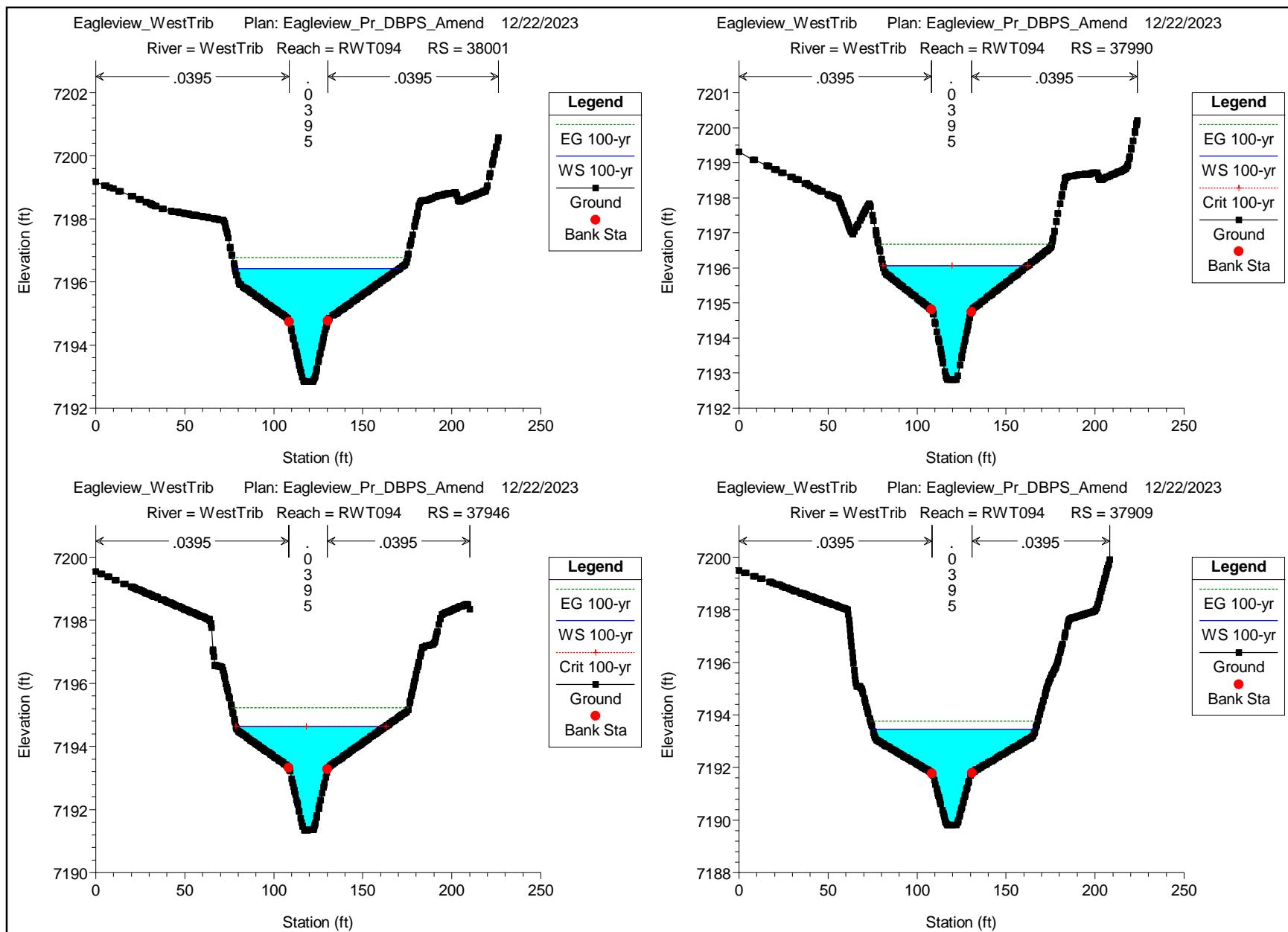


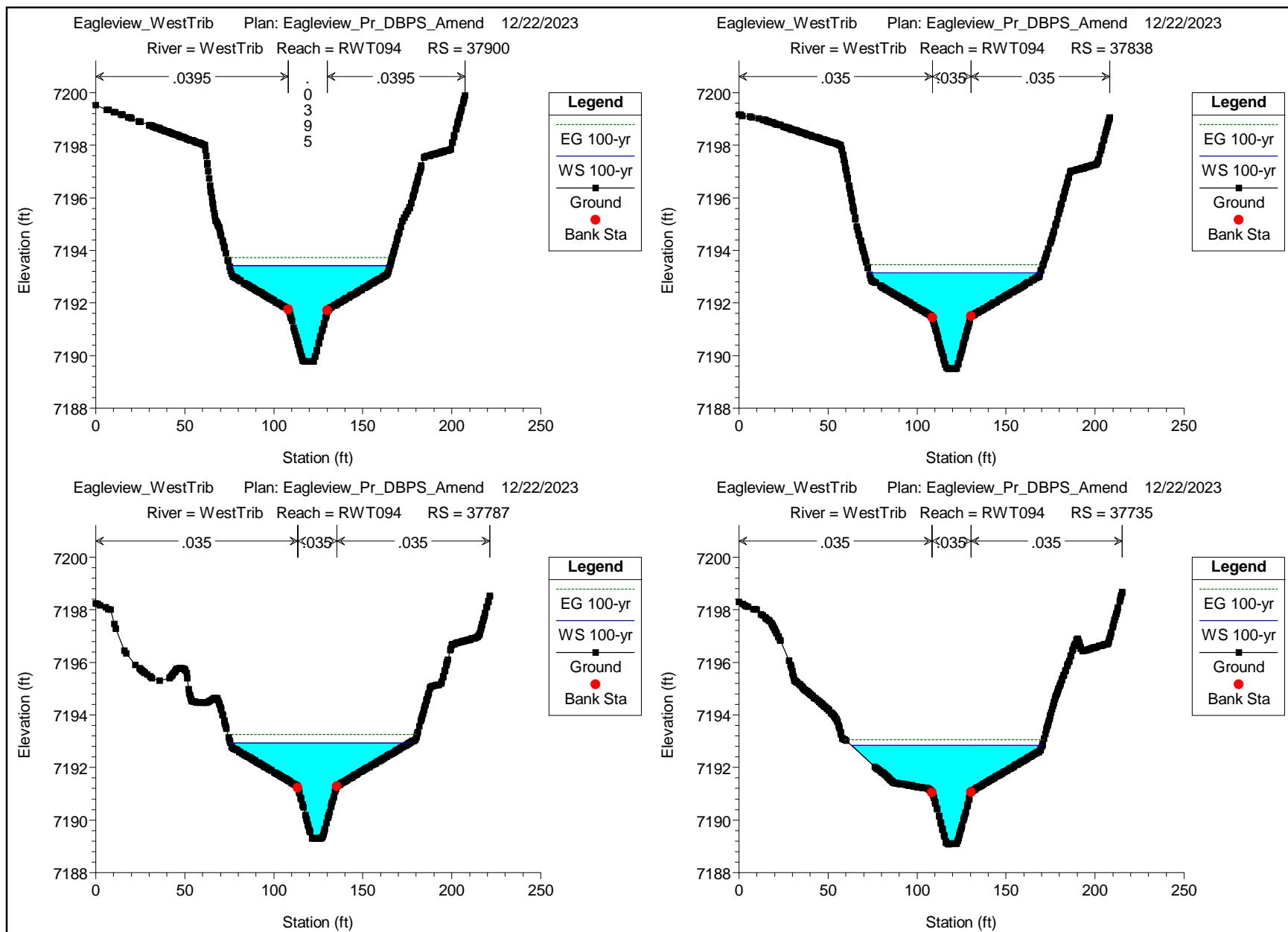


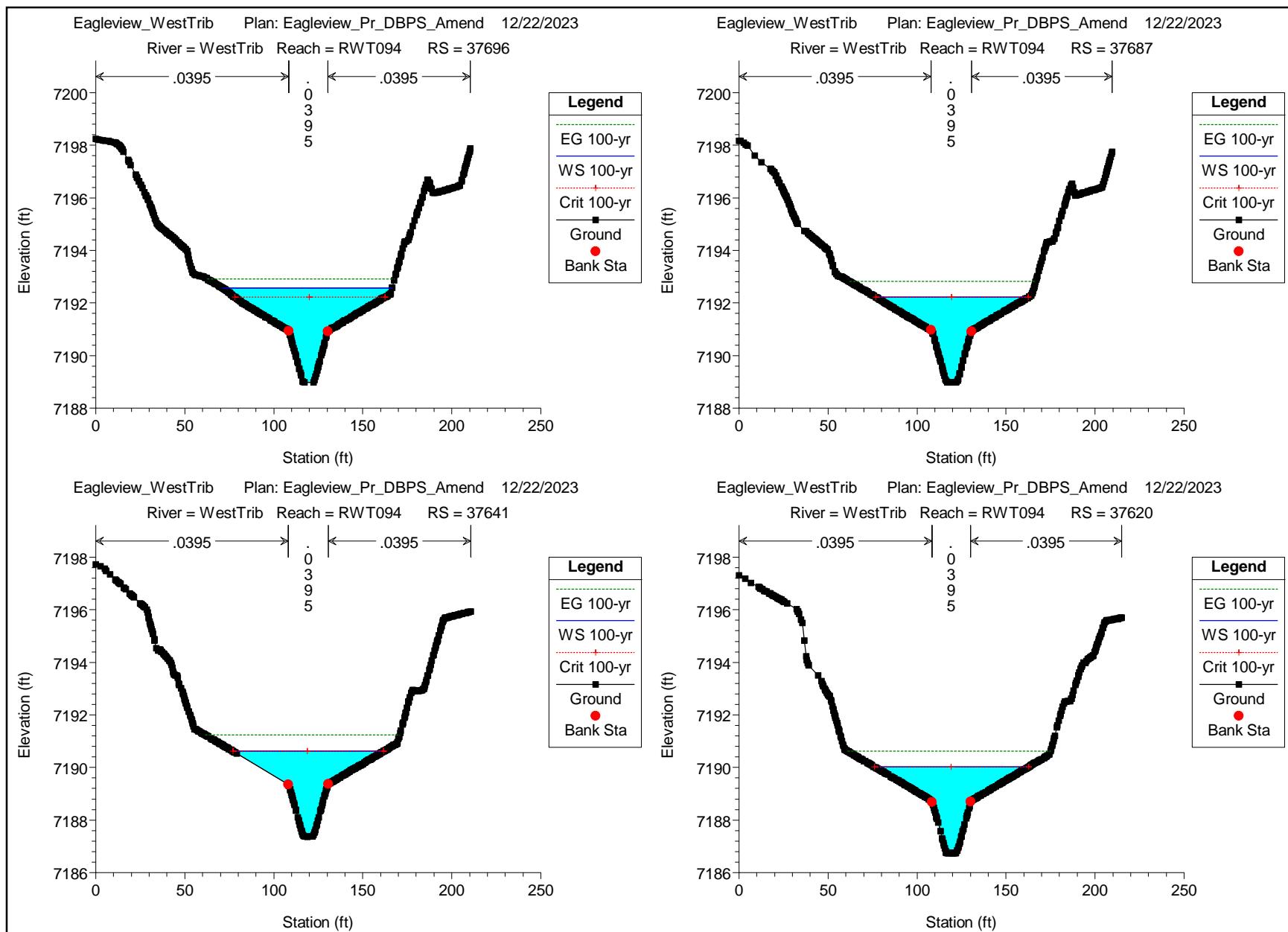


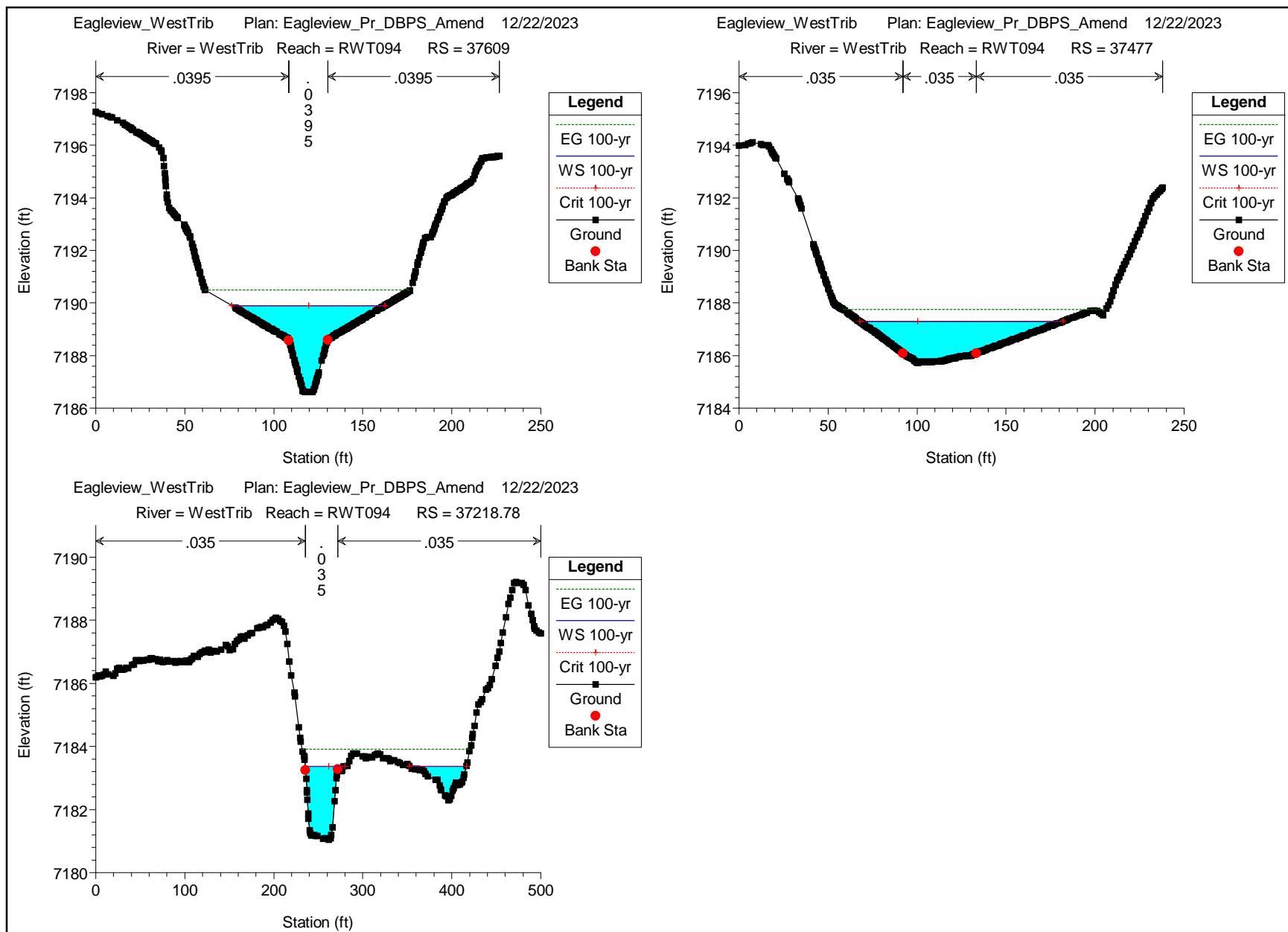




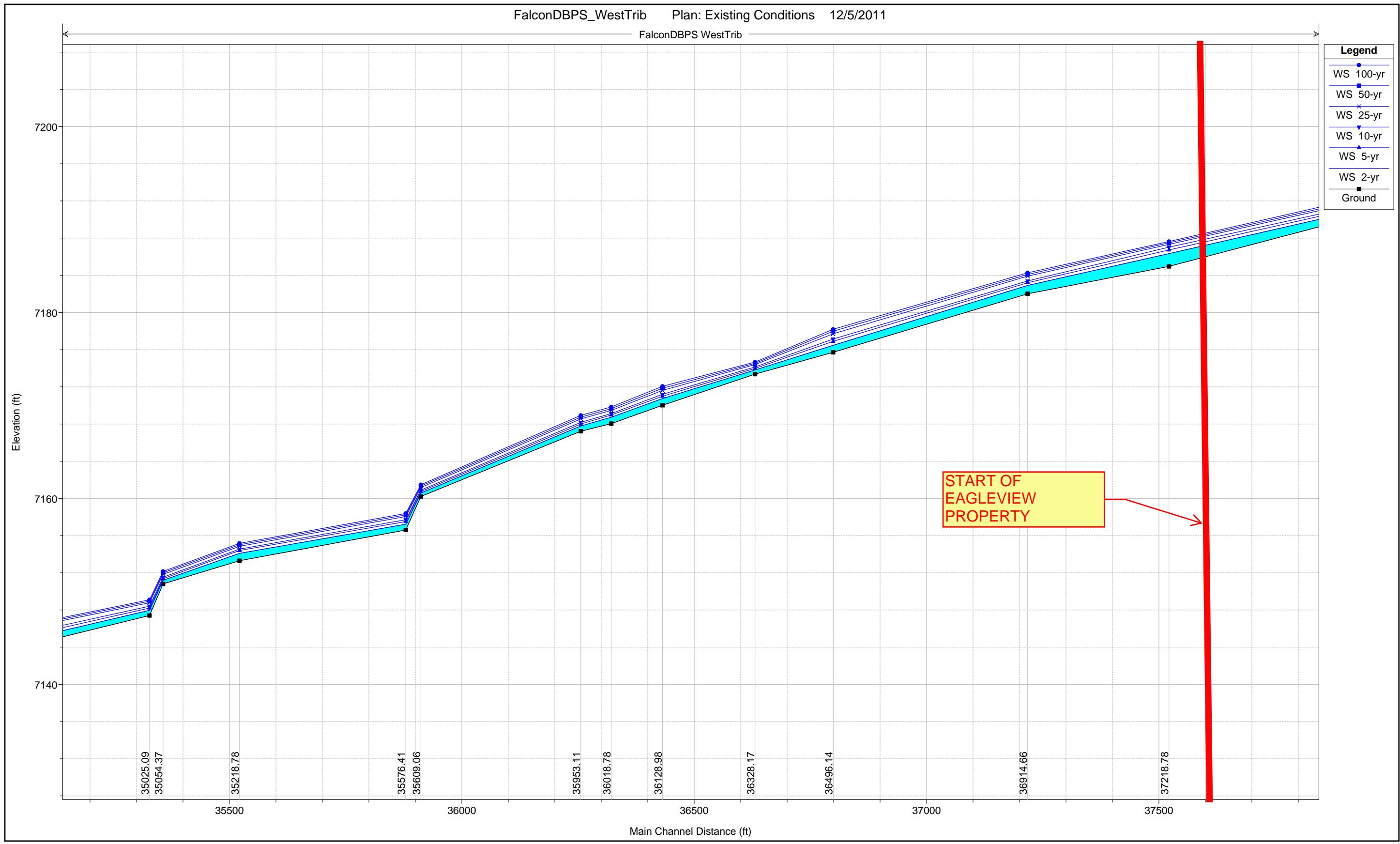






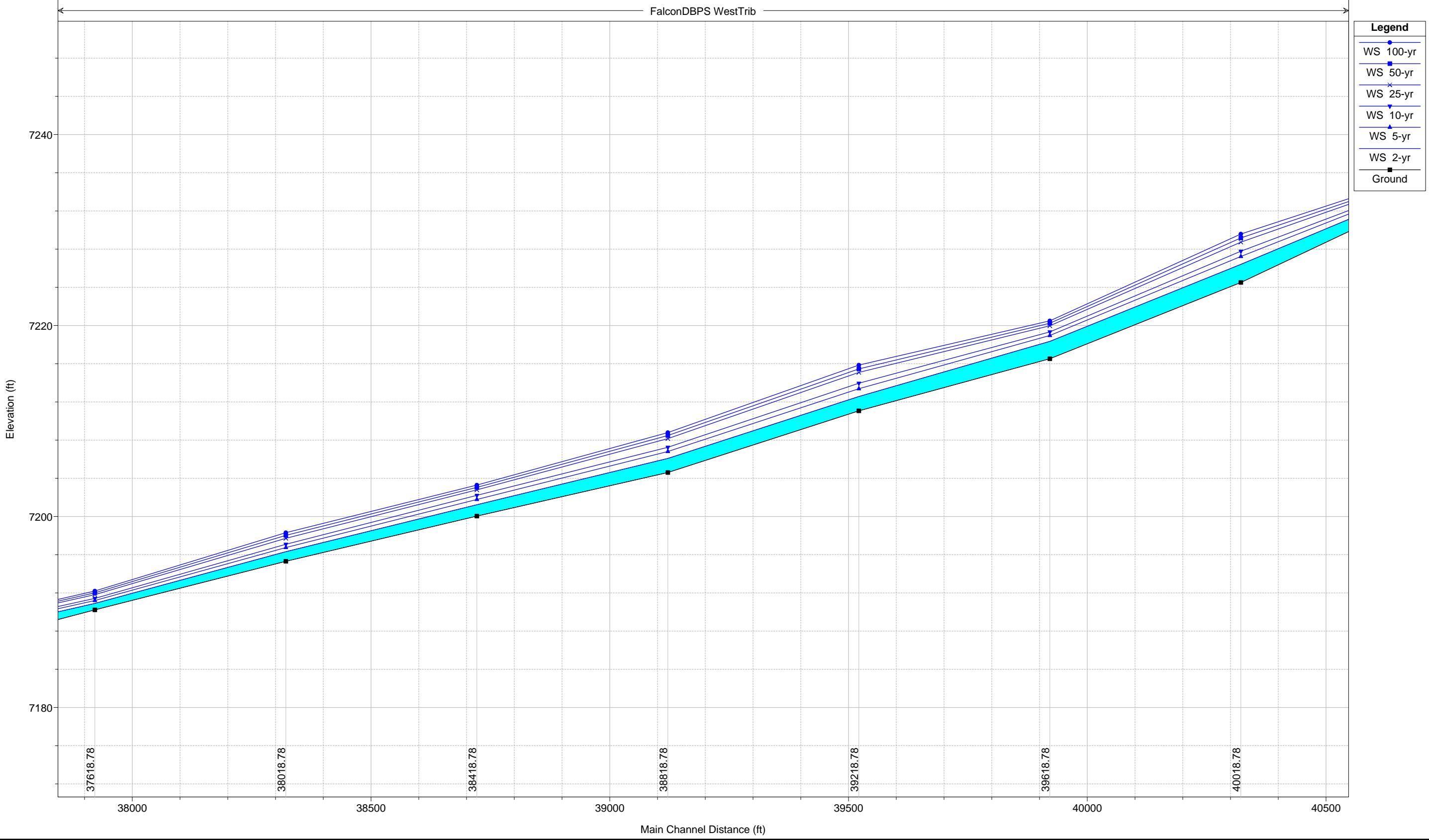


APPENDIX D: DBPS EXCERPTS



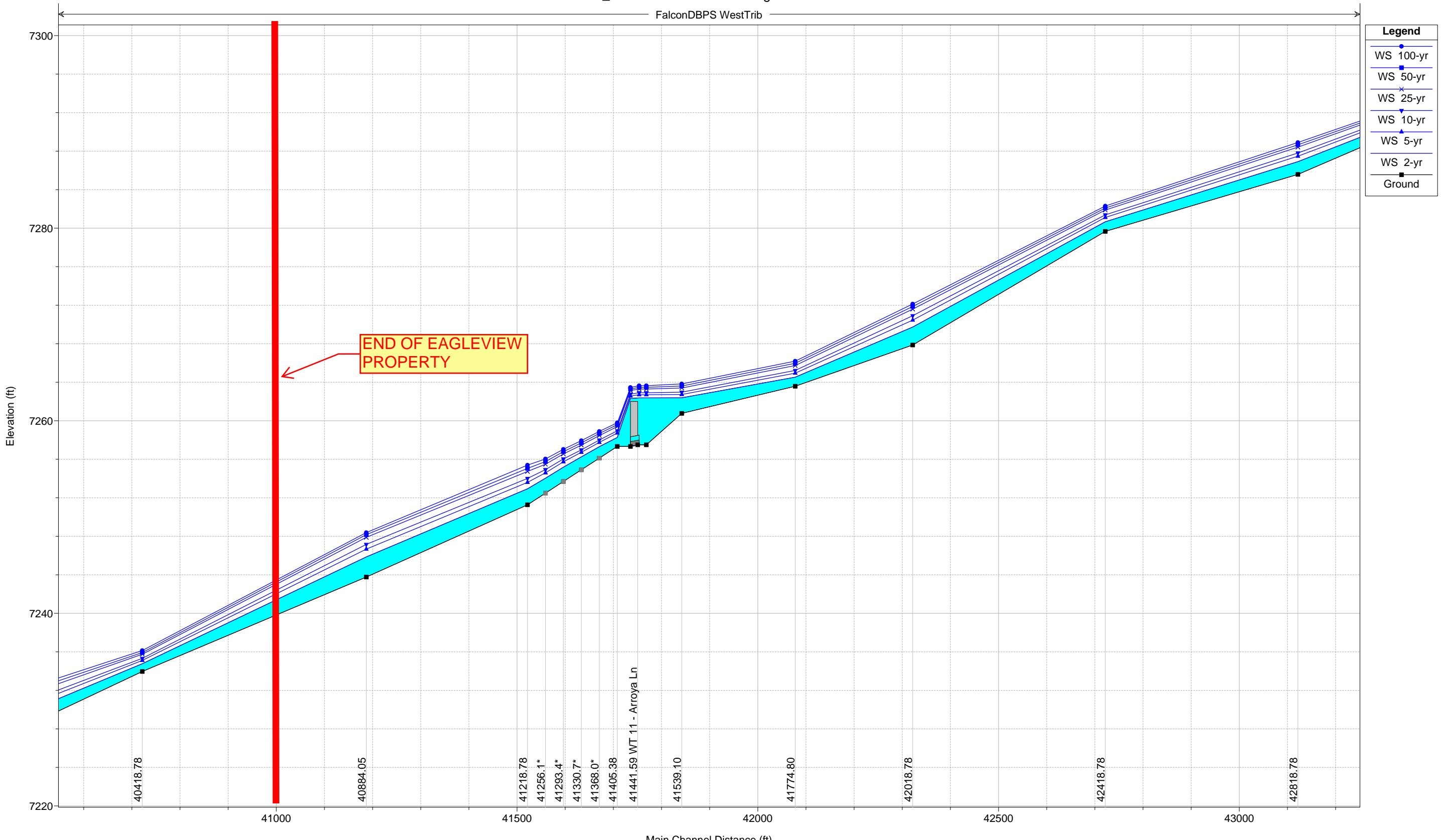
FalconDBPS_WestTrib Plan: Existing Conditions 12/5/2011

FalconDBPS WestTrib



FalconDBPS_WestTrib Plan: Existing Conditions 12/5/2011

FalconDBPS WestTrib

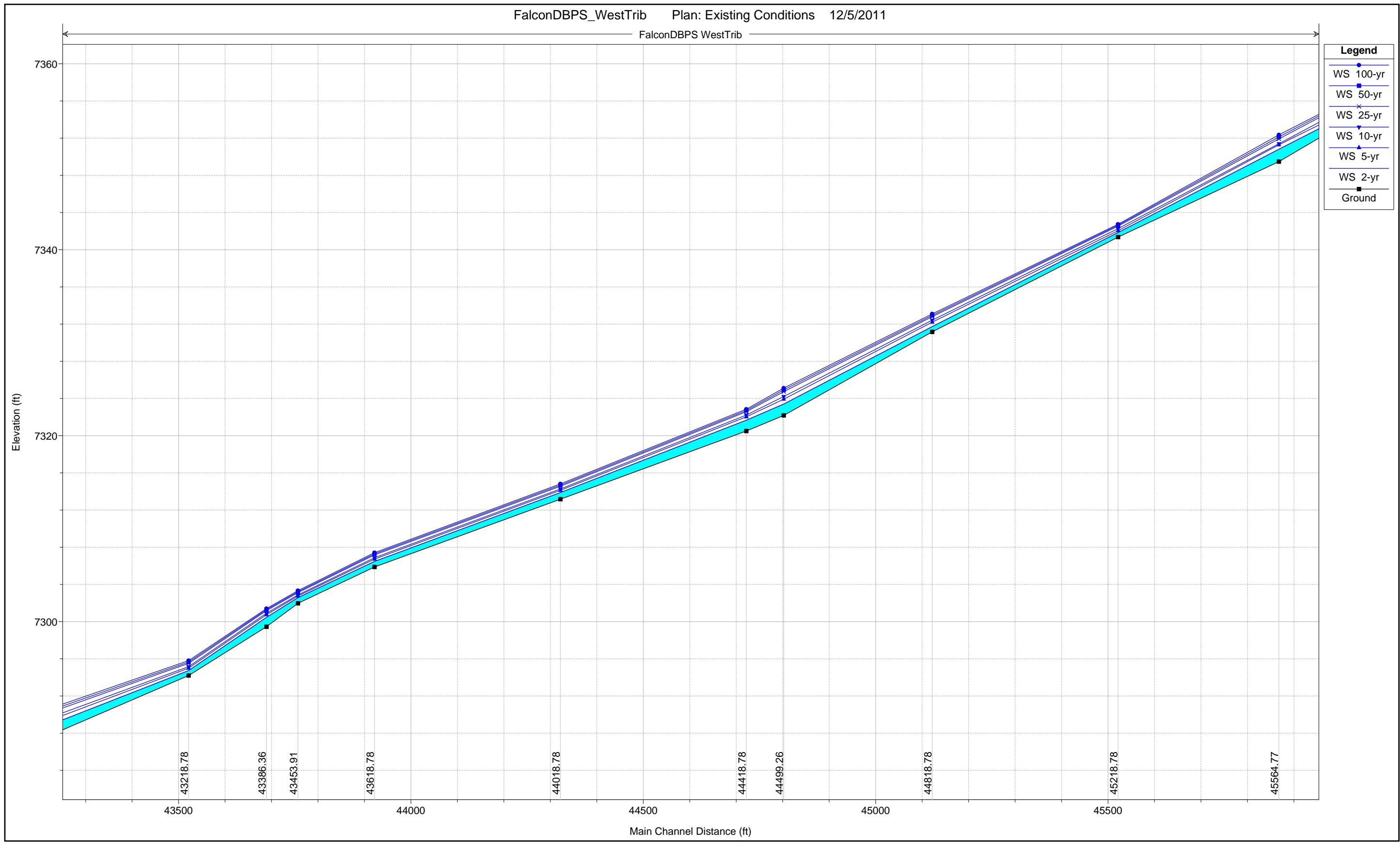


1 in Horiz. = 200 ft 1 in Vert. = 10 ft

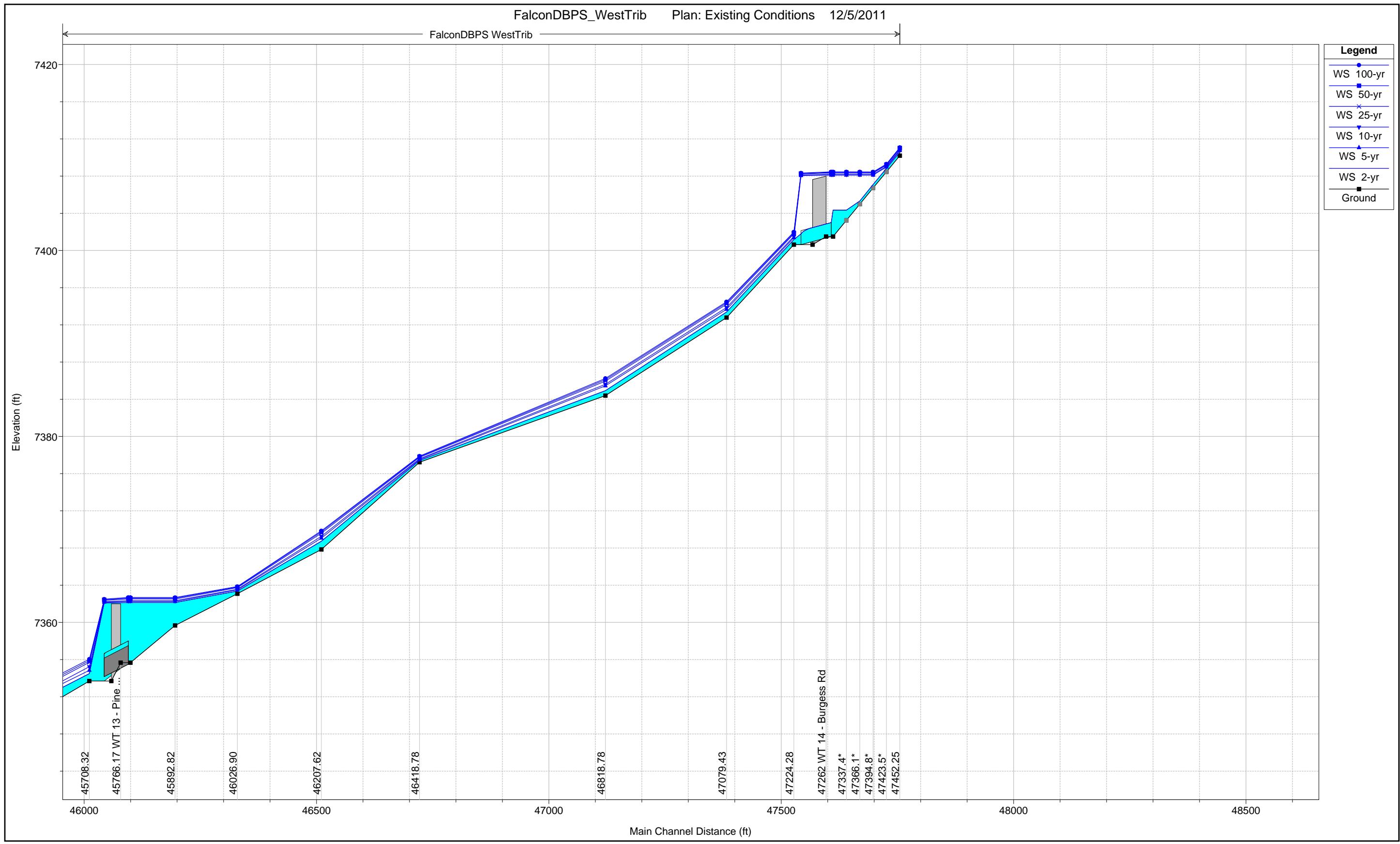
Main Channel Distance (ft)

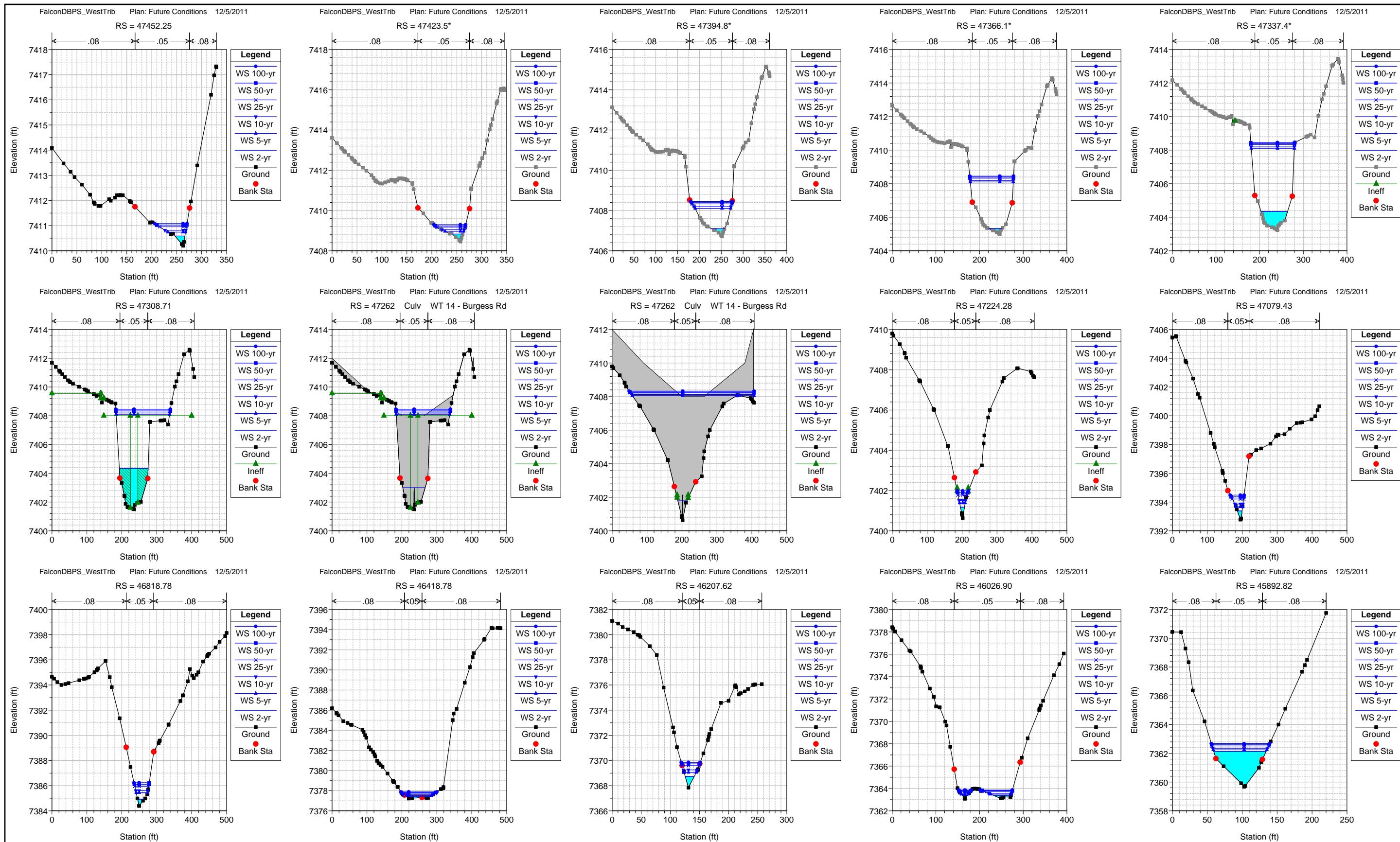
16

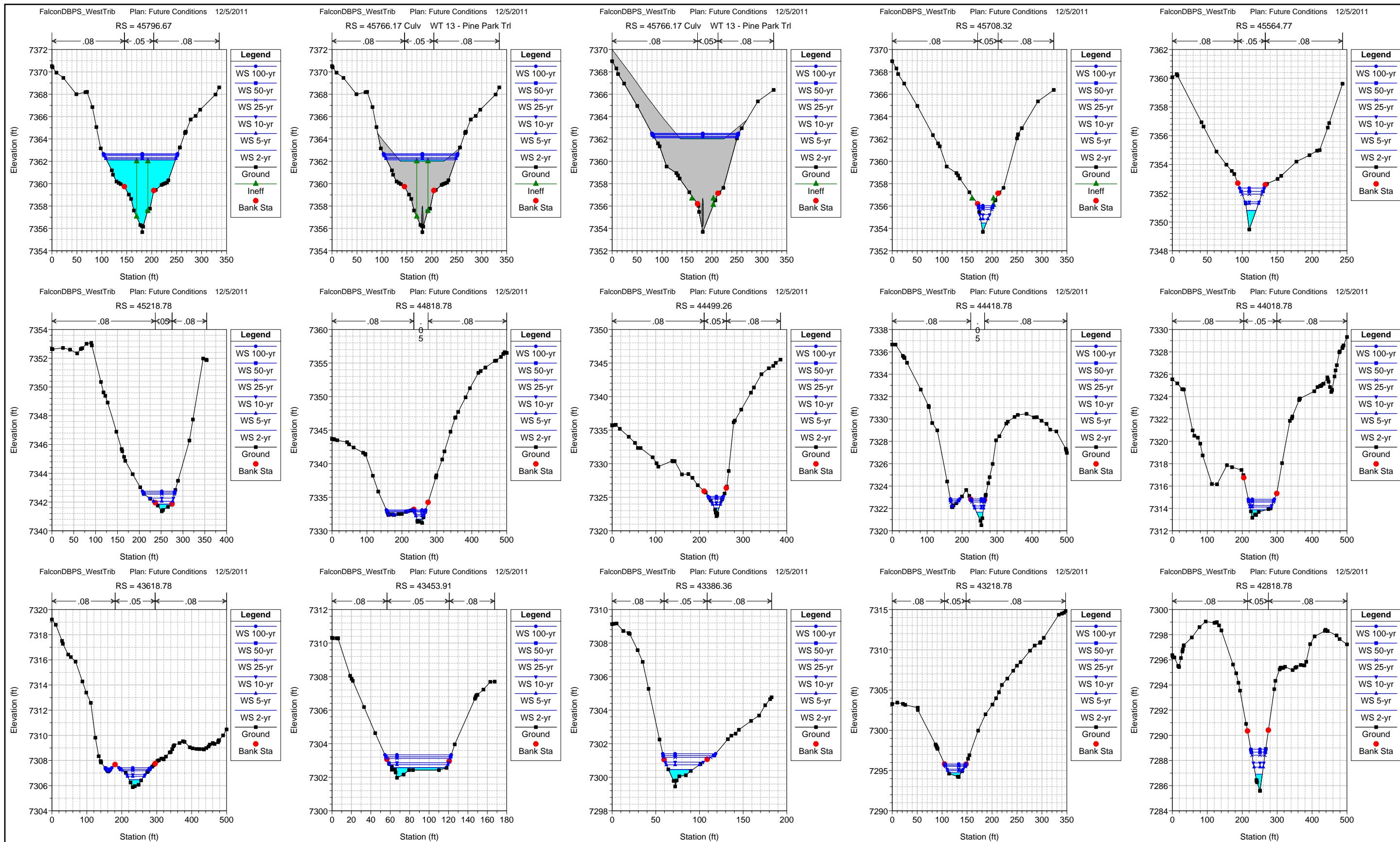
Legend
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground

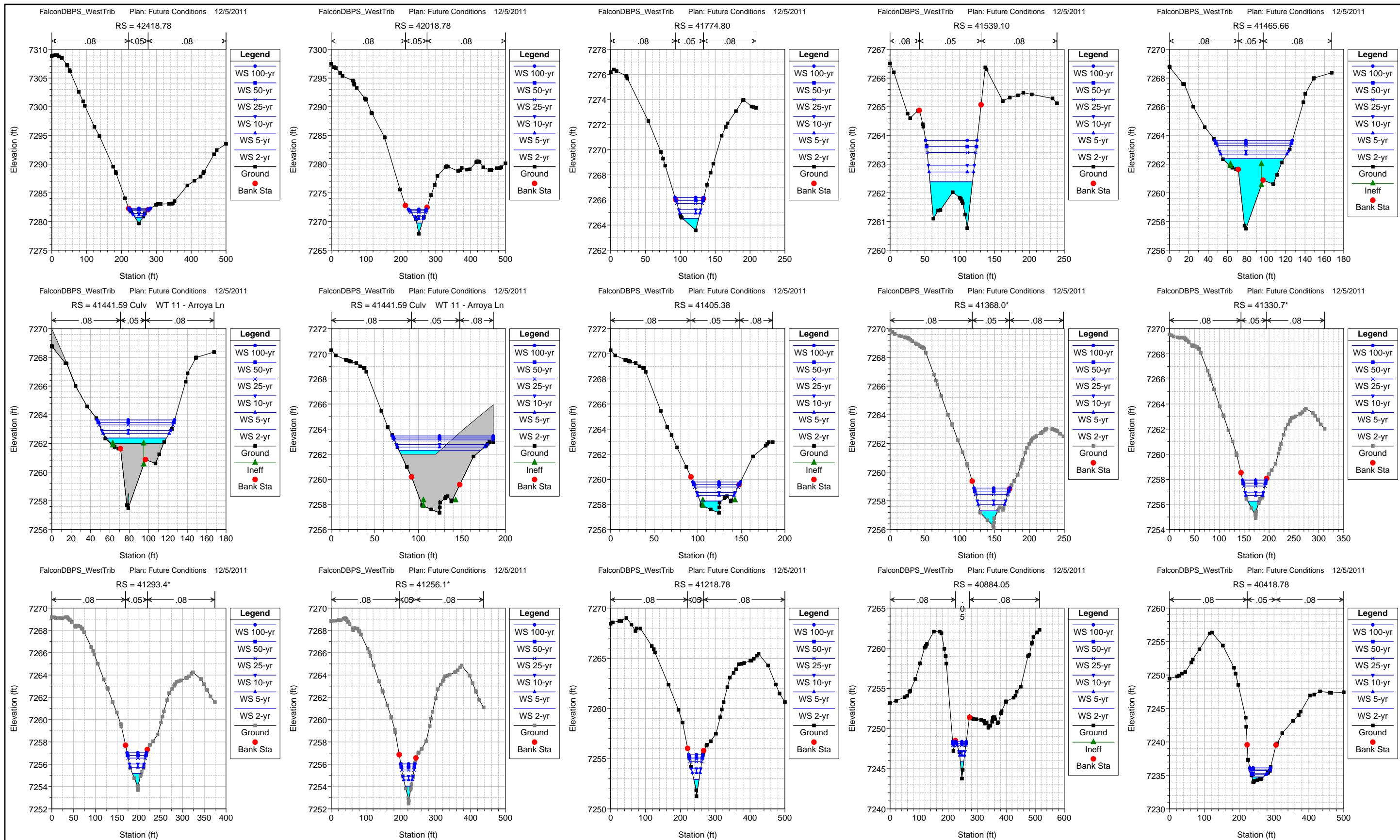


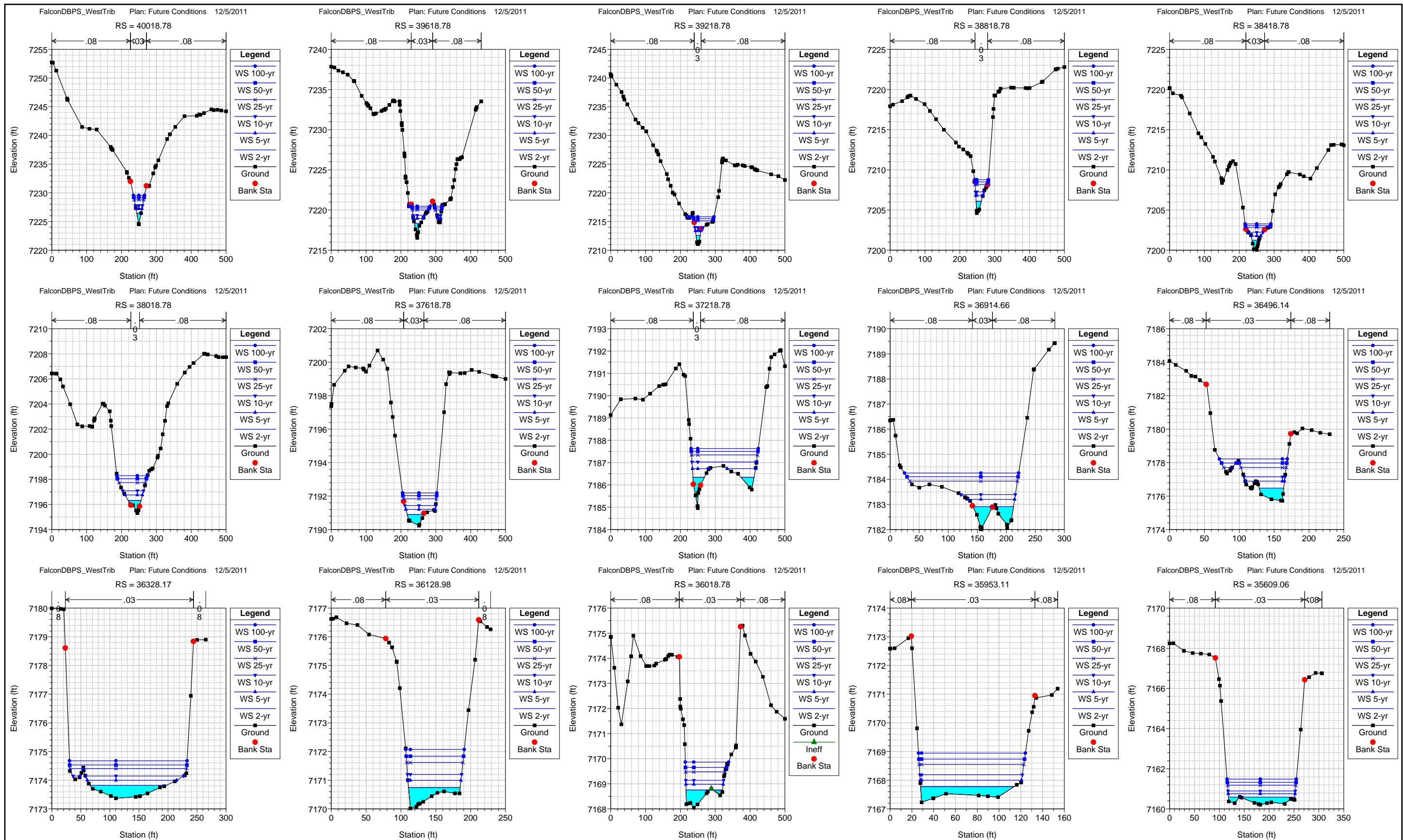
1 in Horiz. = 200 ft 1 in Vert. = 10 ft

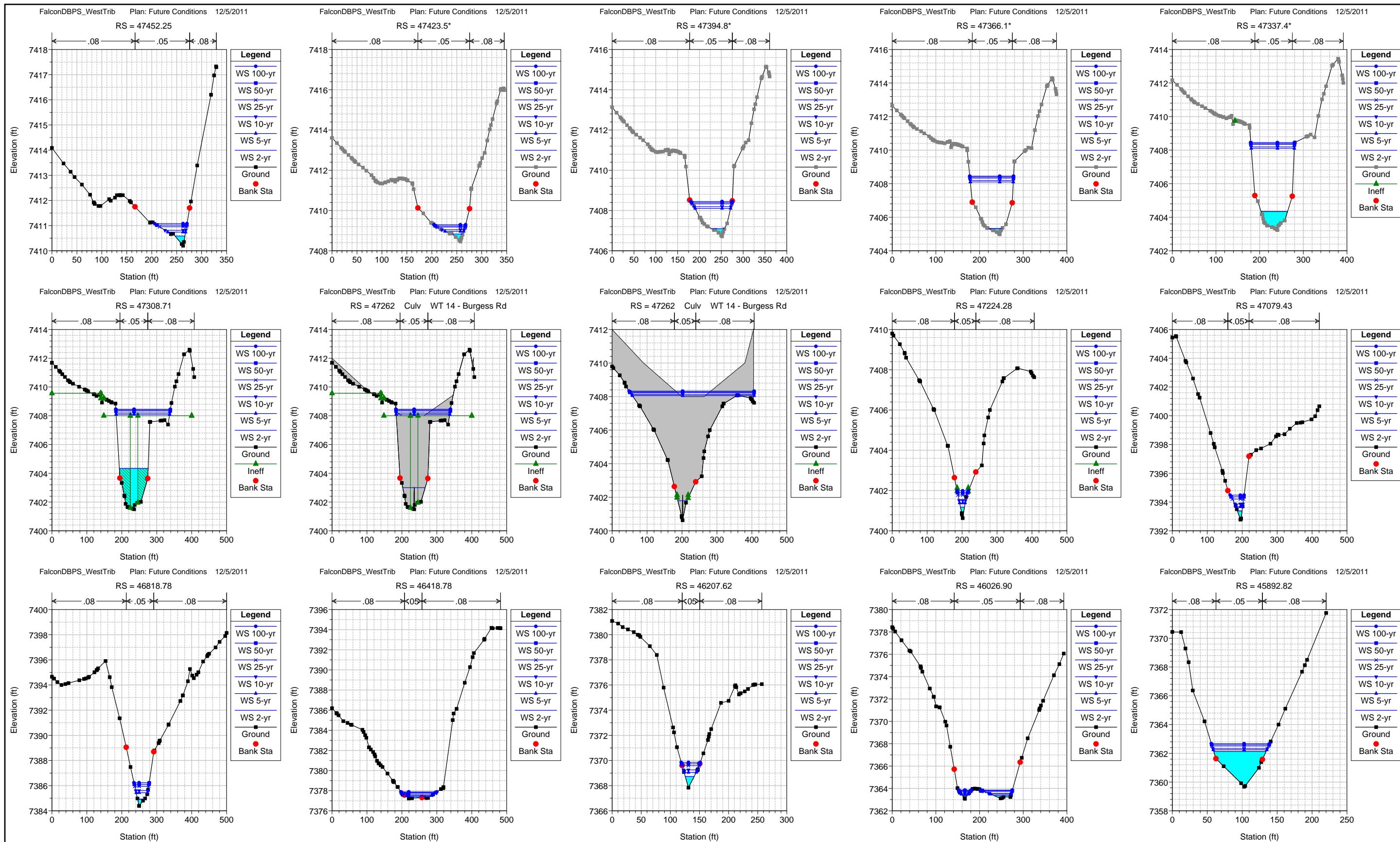


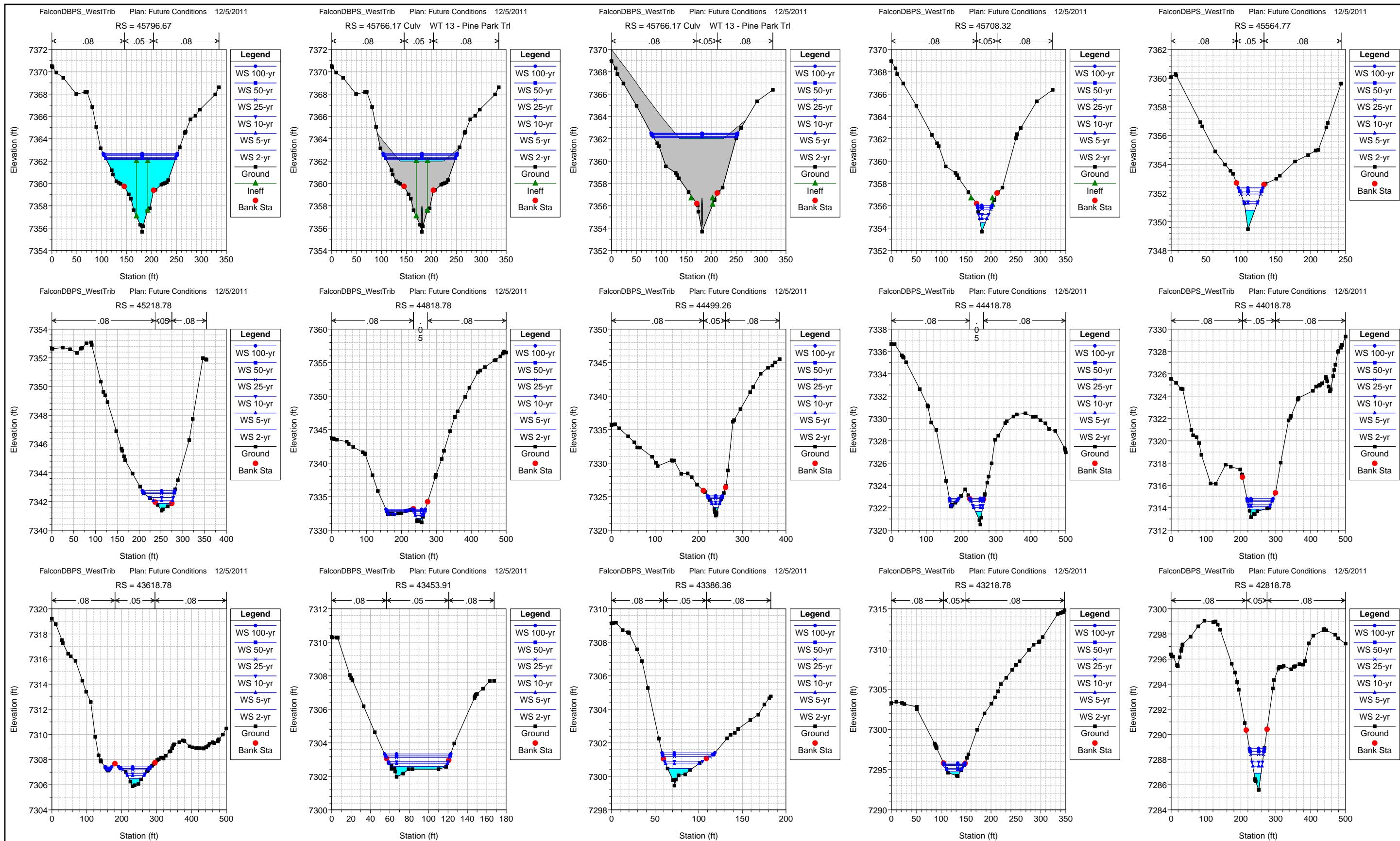


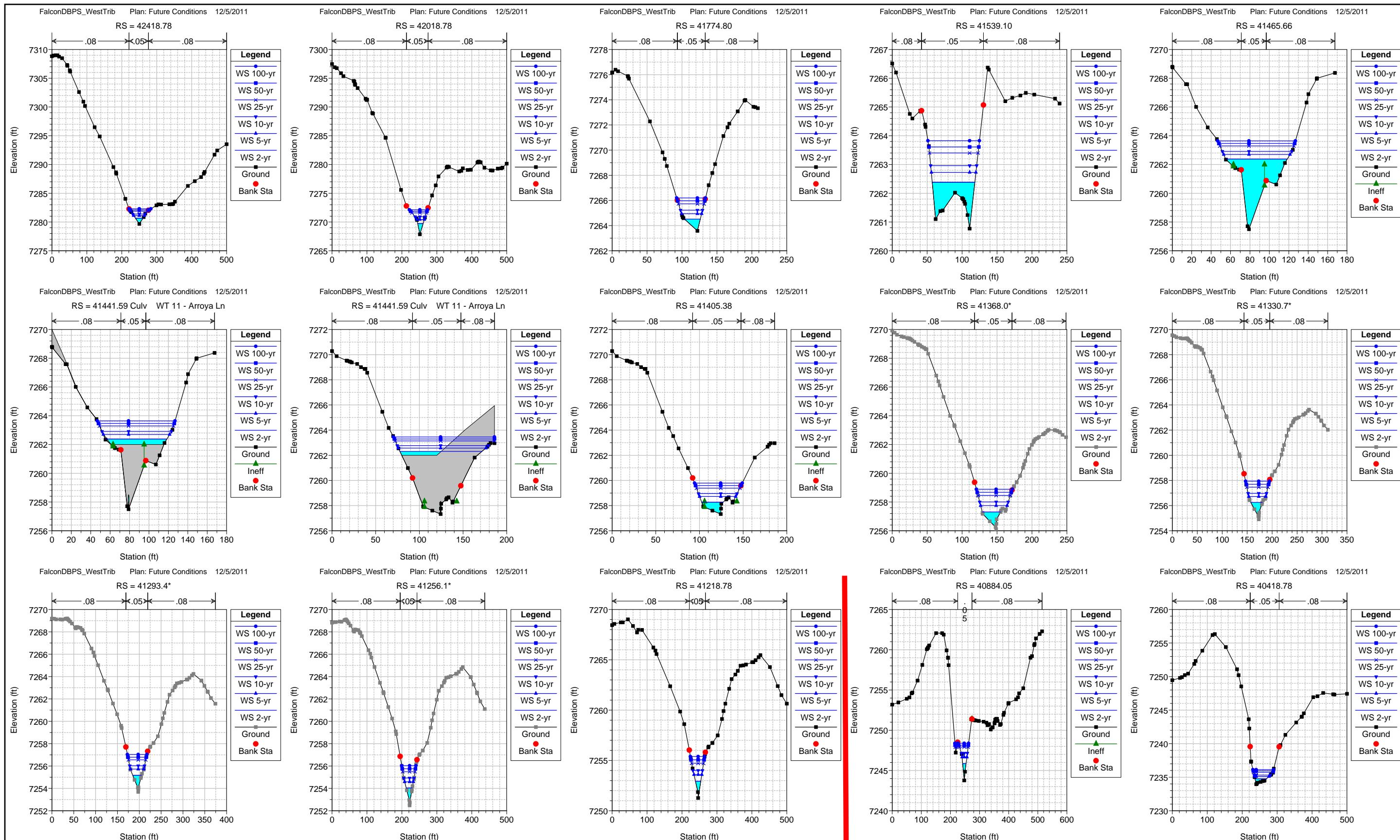


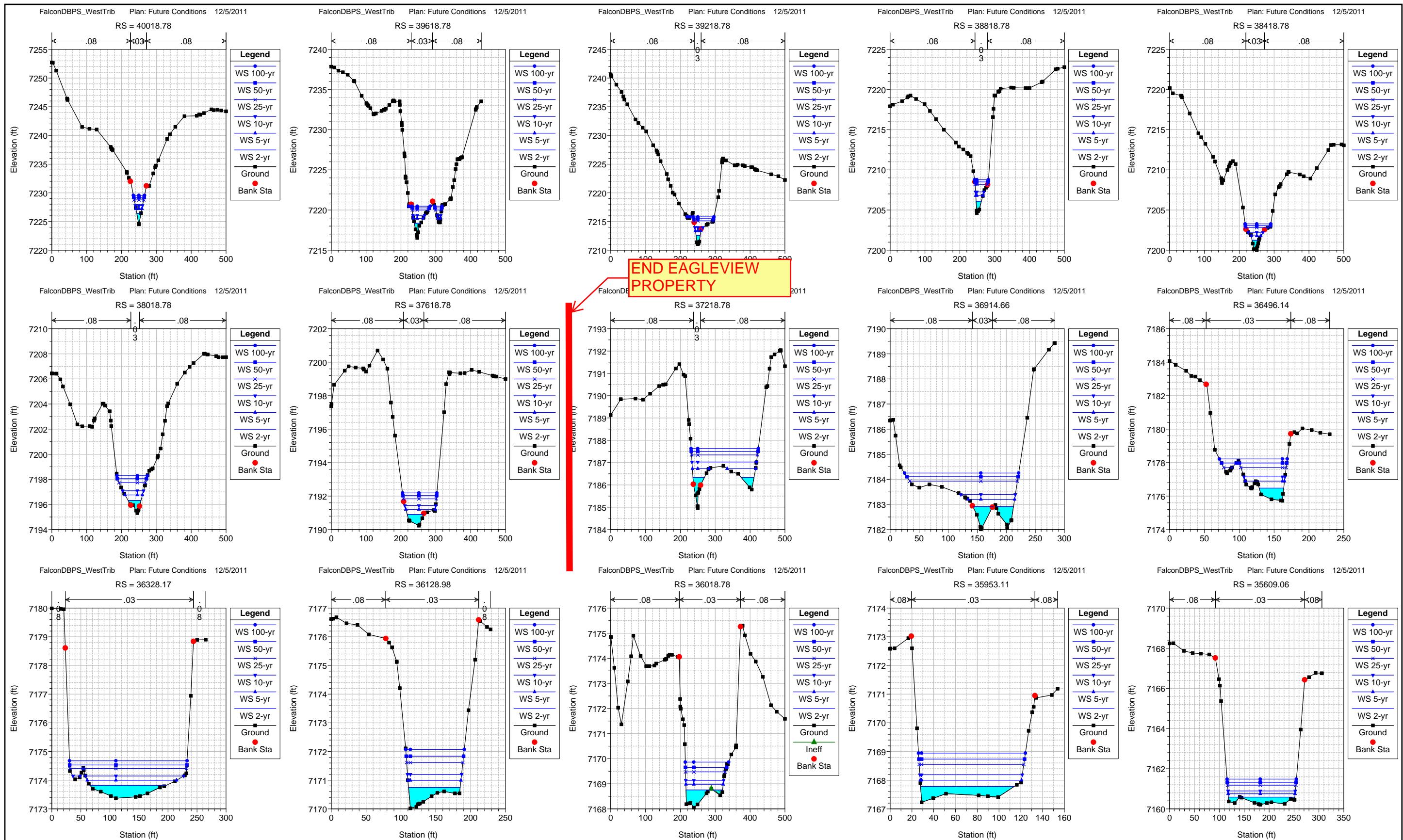












Falcon DBPS
Manning's n Values

West Tributary					Middle Tributary					East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3	River Station	Frctn (n/K)	n #1	n #2	n #3	River Station	Frctn (n/K)	n #1	n #2	n #3
47452.25	n	0.08	0.05	0.08	15477.33	n	0.08	0.05	0.08	32631.79	n	0.08	0.05	0.08
47423.5*	n	0.08	0.05	0.08	15411.72	n	0.08	0.05	0.08	32576.48	n	0.08	0.05	0.08
47394.8*	n	0.08	0.05	0.08	15205.81	n	0.08	0.05	0.08	32537.9*	n	0.08	0.05	0.08
47366.1*	n	0.08	0.05	0.08	15182.0*	n	0.08	0.05	0.08	32499.3*	n	0.08	0.05	0.08
47337.4*	n	0.08	0.05	0.08	15158.2*	n	0.08	0.05	0.08	32460.7*	n	0.08	0.05	0.08
47308.71	n	0.08	0.05	0.08	15134.4*	n	0.08	0.05	0.08	32422.2	n	0.08	0.05	0.08
47262	Culvert				15110.6*	n	0.08	0.05	0.08	32376.64	Culvert			
47224.28	n	0.08	0.05	0.08	15086.8*	n	0.08	0.05	0.08	32335.71	n	0.08	0.05	0.08
47079.43	n	0.08	0.05	0.08	15063.05	n	0.08	0.05	0.08	32288.3*	n	0.08	0.05	0.08
46818.78	n	0.08	0.05	0.08	14907.55	n	0.08	0.05	0.08	32241.*	n	0.08	0.05	0.08
46418.78	n	0.08	0.05	0.08	14773.98	n	0.08	0.05	0.08	32193.6*	n	0.08	0.05	0.08
46207.62	n	0.08	0.05	0.08	14507.55	n	0.08	0.05	0.08	32146.2*	n	0.08	0.05	0.08
46026.9	n	0.08	0.05	0.08	14107.55	n	0.08	0.05	0.08	32098.94	n	0.08	0.05	0.08
45892.82	n	0.08	0.05	0.08	13707.55	n	0.08	0.05	0.08	31698.94	n	0.08	0.05	0.08
45796.67	n	0.08	0.05	0.08	13306.32	n	0.08	0.05	0.08	31657.1*	n	0.08	0.05	0.08
45766.17	Culvert				13111.17	n	0.08	0.05	0.08	31615.3*	n	0.08	0.05	0.08
45708.32	n	0.08	0.05	0.08	12893	n	0.08	0.05	0.08	31573.5*	n	0.08	0.05	0.08
45564.77	n	0.08	0.05	0.08	12511.32	n	0.08	0.05	0.08	31531.79	n	0.08	0.05	0.08
45218.78	n	0.08	0.05	0.08	12037.33	n	0.08	0.05	0.08	31486	Culvert			
44818.78	n	0.08	0.05	0.08	11628.61	n	0.08	0.05	0.08	31411.01	n	0.08	0.05	0.08
44499.26	n	0.08	0.05	0.08	11228.61	n	0.08	0.05	0.08	31375.5*	n	0.08	0.05	0.08
44418.78	n	0.08	0.05	0.08	10828.61	n	0.08	0.05	0.08	31340.1*	n	0.08	0.05	0.08
44018.78	n	0.08	0.05	0.08	10741.93	n	0.08	0.05	0.08	31304.66	n	0.08	0.05	0.08
43618.78	n	0.08	0.05	0.08	10706	Culvert				30904.66	n	0.08	0.05	0.08
43453.91	n	0.08	0.05	0.08	10665.96	n	0.08	0.05	0.08	30742.51	n	0.08	0.05	0.08
43386.36	n	0.08	0.05	0.08	10428.61	n	0.08	0.05	0.08	28941.08	n	0.08	0.05	0.08
43218.78	n	0.08	0.05	0.08	10028.61	n	0.08	0.05	0.08	28754.33	n	0.08	0.05	0.08
42818.78	n	0.08	0.05	0.08	9628.612	n	0.08	0.05	0.08	28478.62	n	0.08	0.05	0.08
42418.78	n	0.08	0.05	0.08	9228.612	n	0.08	0.05	0.08	28298.89	Culvert			
42018.78	n	0.08	0.05	0.08	8741.269	n	0.08	0.05	0.08	28137.71	n	0.08	0.07	0.08
41774.8	n	0.08	0.05	0.08	8483.946	n	0.08	0.05	0.08	28081.78	n	0.08	0.07	0.08
41539.1	n	0.08	0.05	0.08	7238	Culvert				27748.51	n	0.08	0.07	0.08
41465.66	n	0.08	0.05	0.08	6738.77	n	0.15	0.07	0.15	27350.22	n	0.08	0.07	0.08
41441.59	Culvert				6420.92	n	0.15	0.07	0.15	26950.22	n	0.08	0.07	0.08
41405.38	n	0.08	0.05	0.08	6411.64*	n	0.15	0.07	0.15	26646.28	n	0.08	0.07	0.08
41368.0*	n	0.08	0.05	0.08	6402.37*	n	0.15	0.07	0.15	26550.03	n	0.08	0.07	0.08
41330.7*	n	0.08	0.05	0.08	6393.09*	n	0.15	0.07	0.15	26454.7	Culvert			
41293.4*	n	0.08	0.05	0.08	6383.82*	n	0.15	0.07	0.15	26366.53	n	0.08	0.07	0.08
41256.1*	n	0.08	0.05	0.08	6374.54*	n	0.15	0.07	0.15	26300.77	n	0.08	0.07	0.08
41218.78	n	0.08	0.05	0.08	6365.27*	n	0.15	0.07	0.15	26150.22	n	0.08	0.07	0.08
40884.05	n	0.08	0.05	0.08	6356.00*	n	0.15	0.07	0.15	25750.22	n	0.08	0.07	0.08
40418.78	n	0.08	0.05	0.08	6346.727	n	0.15	0.07	0.15	25599.02	n	0.08	0.07	0.08

Falcon DBPS
Manning's n Values

West Tributary					Middle Tributary					East Tributary				
River Station	Frctn (n/K)	n #1	n #2	n #3	River Station	Frctn (n/K)	n #1	n #2	n #3	River Station	Frctn (n/K)	n #1	n #2	n #3
40018.78	n	0.08	0.03	0.08	6320.979	n	0.15	0.07	0.15	25501.42	n	0.08	0.07	0.08
39618.78	n	0.08	0.03	0.08	6276.979	Bridge				25447.05	n	0.08	0.07	0.08
39218.78	n	0.08	0.03	0.08	6210.5	n	0.15	0.07	0.15	25383.89	n	0.08	0.07	0.08
38818.78	n	0.08	0.03	0.08	6158.16*	n	0.15	0.07	0.15	25320.79	n	0.08	0.07	0.08
38418.78	n	0.08	0.03	0.08	6105.82*	n	0.15	0.07	0.15	25265.56	n	0.08	0.07	0.08
38018.78	n	0.08	0.03	0.08	6053.48*	n	0.15	0.07	0.15	25173.45	n	0.08	0.07	0.08
37618.78	n	0.08	0.03	0.08	6001.15*	n	0.15	0.07	0.15	24950.22	n	0.08	0.07	0.08
37218.78	n	0.08	0.03	0.08	5948.81*	n	0.15	0.07	0.15	24550.22	n	0.08	0.07	0.08
36914.66	n	0.08	0.03	0.08	5896.477	n	0.15	0.07	0.15	24161.18	n	0.08	0.07	0.08
36496.14	n	0.08	0.03	0.08	5551.916	n	0.15	0.07	0.15	24122.58	n	0.08	0.07	0.08
36328.17	n	0.08	0.03	0.08	5362.949	n	0.15	0.07	0.15	24087.33	n	0.08	0.07	0.08
36128.98	n	0.08	0.03	0.08	5337.60*	n	0.15	0.07	0.15	24032.8	n	0.08	0.07	0.08
36018.78	n	0.08	0.03	0.08	5312.26*	n	0.15	0.07	0.15	23750.22	n	0.08	0.07	0.08
35953.11	n	0.08	0.03	0.08	5286.91*	n	0.15	0.07	0.15	23617.72	n	0.08	0.07	0.08
35609.06	n	0.08	0.03	0.08	5261.57*	n	0.15	0.07	0.15	23513.91	n	0.08	0.07	0.08
35576.41	n	0.08	0.03	0.08	5236.23*	n	0.15	0.07	0.15	23413.07	Culvert			
35218.78	n	0.08	0.03	0.08	5210.887	n	0.15	0.07	0.15	23316.27	n	0.15	0.07	0.15
35054.37	n	0.08	0.03	0.08	5184.12	Bridge				23184.63	n	0.15	0.07	0.15
35025.09	n	0.08	0.03	0.08	5159.05	n	0.15	0.07	0.15	22950.22	n	0.15	0.07	0.15
34818.78	n	0.08	0.03	0.08	5120.029	n	0.15	0.07	0.15	22550.22	n	0.15	0.07	0.15
34639.33	n	0.08	0.03	0.08	5091.662	n	0.15	0.07	0.15	22150.22	n	0.15	0.07	0.15
34399.04	n	0.08	0.03	0.08	5035.56	Culvert				21750.22	n	0.15	0.07	0.15
34320.25	n	0.08	0.05	0.08	4988.302	n	0.15	0.07	0.15	21732.7*	n	0.15	0.07	0.15
34018.33	n	0.08	0.05	0.08	4971.81*	n	0.15	0.07	0.15	21715.3*	n	0.15	0.07	0.15
33792.91	n	0.08	0.05	0.08	4955.33*	n	0.15	0.07	0.15	21697.9*	n	0.15	0.07	0.15
33635.33	n	0.08	0.05	0.08	4938.84*	n	0.15	0.07	0.15	21680.48	n	0.15	0.07	0.15
33235.67	n	0.08	0.05	0.08	4922.36*	n	0.15	0.07	0.15	21604.86	Culvert			
32862.6	n	0.08	0.05	0.08	4905.881	n	0.15	0.07	0.15	21520.49	n	0.08	0.07	0.08
32439.34	n	0.08	0.05	0.08	4751.912	n	0.15	0.07	0.15	21350.22	n	0.08	0.07	0.08
32034.26	n	0.08	0.05	0.08	4351.913	n	0.15	0.07	0.15	21169.19	n	0.08	0.07	0.08
31765.2	n	0.08	0.05	0.08	3951.913	n	0.15	0.07	0.15	21150.6*	n	0.08	0.07	0.08
31571.99	n	0.08	0.05	0.08	3849.362	n	0.15	0.07	0.15	21132.0*	n	0.08	0.07	0.08
31384.44	n	0.08	0.03	0.08	3822.34*	n	0.15	0.07	0.15	21113.4*	n	0.08	0.07	0.08
31149.9	n	0.08	0.03	0.08	3795.32*	n	0.15	0.07	0.15	21094.9*	n	0.08	0.07	0.08
30906.88	n	0.08	0.03	0.08	3768.30*	n	0.15	0.07	0.15	21076.3*	n	0.08	0.07	0.08
30466.36	n	0.08	0.03	0.08	3741.28*	n	0.15	0.07	0.15	21057.78	n	0.08	0.07	0.08
30109.14	n	0.08	0.03	0.08	3714.26	n	0.15	0.07	0.15	20950.22	n	0.08	0.07	0.08
29876.27	n	0.08	0.03	0.08	3667.171	Culvert				20786.19	n	0.08	0.07	0.08
29632.62	n	0.08	0.03	0.08	3619.655	n	0.15	0.07	0.15	20763.13	n	0.08	0.07	0.08
29330.53	n	0.08	0.03	0.08	3385.78*	n	0.15	0.07	0.15	20550.22	n	0.08	0.07	0.08
29004.24	n	0.08	0.03	0.08	3151.913	n	0.15	0.07	0.15	20452.99	n	0.08	0.07	0.08
28833.58	n	0.08	0.03	0.08	2744.492	n	0.15	0.07	0.15	20393.38	n	0.08	0.07	0.08

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	47452.25	2-yr		9		7410.2	7410.59	7410.57	7410.67	0.057877	2.38	3.78	19.64	0.96	1.76	0.69
WestTrib	47452.25	5-yr		21		7410.2	7410.74	7410.74	7410.85	0.059512	2.66	7.9	35.51	0.99	1.78	0.83
WestTrib	47452.25	10-yr		32		7410.2	7410.82	7410.82	7410.95	0.060295	2.96	10.83	41.98	1.03	1.72	0.97
WestTrib	47452.25	25-yr		58		7410.2	7410.96	7410.96	7411.13	0.056237	3.32	17.45	53.8	1.03	1.59	1.14
WestTrib	47452.25	50-yr		73		7410.2	7411.02	7411.02	7411.21	0.052171	3.42	21.35	59.69	1.01	1.52	1.16
WestTrib	47452.25	100-yr		89		7410.2	7411.08	7411.08	7411.28	0.051479	3.56	24.97	64.94	1.01	1.45	1.23
WestTrib	47423.5*	2-yr		9		7408.46	7408.83	7408.83	7408.92	0.06487	2.4	3.75	20.92	1	1.71	0.72
WestTrib	47423.5*	5-yr		21		7408.46	7408.97	7408.97	7409.08	0.064271	2.66	7.88	37.45	1.02	0.05	0.84
WestTrib	47423.5*	10-yr		32		7408.46	7409.05	7409.05	7409.17	0.059416	2.86	11.18	45.01	1.01	0.06	0.92
WestTrib	47423.5*	25-yr		58		7408.46	7409.18	7409.18	7409.34	0.054376	3.24	17.92	56.12	1.01	0.1	1.08
WestTrib	47423.5*	50-yr		73		7408.46	7409.24	7409.24	7409.42	0.05383	3.44	21.25	60.38	1.02	0.12	1.18
WestTrib	47423.5*	100-yr		89		7408.46	7409.3	7409.3	7409.49	0.049503	3.55	25.04	63.48	1	0.14	1.22
WestTrib	47394.8*	2-yr		9		7406.72	7407.1	7407.09	7407.16	0.05461	1.97	4.56	30.12	0.89	1.77	0.52
WestTrib	47394.8*	5-yr		21		7406.72	7408.11		7408.11	0.000148	0.32	66.51	81.27	0.06	0	0.01
WestTrib	47394.8*	10-yr		32		7406.72	7408.19		7408.2	0.000255	0.43	73.74	84.24	0.08	0	0.01
WestTrib	47394.8*	25-yr		58		7406.72	7408.33		7408.34	0.000553	0.68	85.71	89.84	0.12	0	0.03
WestTrib	47394.8*	50-yr		73		7406.72	7408.39		7408.4	0.000735	0.8	91.41	92.54	0.14	0.01	0.05
WestTrib	47394.8*	100-yr		89		7406.72	7408.45		7408.46	0.000934	0.92	96.86	95.05	0.16	0.01	0.06
WestTrib	47366.1*	2-yr		9		7404.98	7405.33	7405.33	7405.39	0.069848	2.11	4.27	30.72	1	0.04	0.61
WestTrib	47366.1*	5-yr	0.06	20.91	0.03	7404.98	7408.11		7408.11	0.000003	0.1	223.24	98.43	0.01	0	0
WestTrib	47366.1*	10-yr	0.11	31.84	0.05	7404.98	7408.19		7408.19	0.000007	0.14	231.86	98.92	0.02	0	0
WestTrib	47366.1*	25-yr	0.24	57.65	0.12	7404.98	7408.33		7408.33	0.000018	0.24	245.68	99.69	0.03	0	0
WestTrib	47366.1*	50-yr	0.32	72.52	0.16	7404.98	7408.4		7408.4	0.000027	0.3	251.92	100.04	0.03	0	0
WestTrib	47366.1*	100-yr	0.42	88.38	0.2	7404.98	7408.45		7408.46	0.000037	0.35	257.84	100.36	0.04	0	0.01
WestTrib	47337.4*	2-yr		9		7403.24	7404.34	7403.55	7404.34	0.000077	0.21	43.26	60.77	0.04	0	0
WestTrib	47337.4*	5-yr	0.2	20.69	0.11	7403.24	7408.11	7403.66	7408.11	0.000001	0.06	371.79	98.63	0.01	0	0
WestTrib	47337.4*	10-yr	0.32	31.51	0.17	7403.24	7408.19	7403.74	7408.19	0.000001	0.09	380.48	99.03	0.01	0	0
WestTrib	47337.4*	25-yr	0.63	57.04	0.33	7403.24	7408.33	7403.87	7408.33	0.000004	0.15	394.25	99.67	0.01	0	0
WestTrib	47337.4*	50-yr	0.81	71.76	0.43	7403.24	7408.4	7403.92	7408.4	0.000006	0.19	400.54	99.95	0.02	0	0
WestTrib	47337.4*	100-yr	1.02	87.48	0.5	7403.24	7408.45	7403.99	7408.46	0.000008	0.23	406.41	100.93	0.02	0	0
WestTrib	47308.71	2-yr		9		7401.5	7404.34	7401.82	7404.34	0.000008	0.16	56.79	82.41	0.02		0
WestTrib	47308.71	5-yr	0.33	20.4	0.27	7401.5	7408.11	7402.02	7408.11	0	0.04	532.04	153.26	0		0
WestTrib	47308.71	10-yr	0.52	31	0.48	7401.5	7408.19	7402.12	7408.19	0	0.07	545.54	154.06	0.01		0
WestTrib	47308.71	25-yr	0.97	55.93	1.1	7401.5	7408.33	7402.31	7408.33	0.000001	0.12	567.07	155.33	0.01		0
WestTrib	47308.71	50-yr	1.24	70.24	1.52	7401.5	7408.4	7402.41	7408.4	0.000002	0.14	576.79	155.9	0.01		0
WestTrib	47308.71	100-yr	1.54	85.46	2.01	7401.5	7408.45	7402.5	7408.45	0.000003	0.17	585.94	156.43	0.02		0

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	47262		Culvert													
WestTrib	47224.28	2-yr		9		7400.63	7401.17	7401.17	7401.3	0.051606	2.85	3.16	11.44	0.96	7.75	0.88
WestTrib	47224.28	5-yr		21		7400.63	7401.39	7401.39	7401.57	0.049322	3.46	6.06	15.88	0.99	6.9	1.17
WestTrib	47224.28	10-yr		32		7400.63	7401.51	7401.51	7401.75	0.050153	3.87	8.27	18.55	1.02	6.76	1.39
WestTrib	47224.28	25-yr		58		7400.63	7401.78	7401.78	7402.05	0.042725	4.12	14.07	25.48	0.98	6.21	1.47
WestTrib	47224.28	50-yr		73		7400.63	7401.89	7401.89	7402.18	0.042069	4.25	17.16	29.32	0.98	6.01	1.53
WestTrib	47224.28	100-yr		89		7400.63	7401.99	7401.99	7402.29	0.040745	4.43	20.11	32.57	0.98	5.93	1.61
WestTrib	47079.43	2-yr		15		7392.78	7393.38	7393.38	7393.56	0.054487	3.34	4.5	13.41	1.02		1.13
WestTrib	47079.43	5-yr		37		7392.78	7393.68	7393.68	7393.93	0.046548	3.99	9.27	18.78	1	4.58	1.43
WestTrib	47079.43	10-yr		57		7392.78	7393.87	7393.87	7394.16	0.044693	4.32	13.2	23.02	1.01	4.82	1.59
WestTrib	47079.43	25-yr		110		7392.78	7394.21	7394.21	7394.58	0.042686	4.84	22.75	32.36	1.02	5.03	1.86
WestTrib	47079.43	50-yr		140		7392.78	7394.36	7394.36	7394.75	0.040828	5.01	27.94	36.45	1.01	5.01	1.94
WestTrib	47079.43	100-yr		170		7392.78	7394.48	7394.48	7394.91	0.040699	5.23	32.51	39.7	1.02	5.18	2.07
WestTrib	46818.78	2-yr		15		7384.39	7384.93	7384.93	7385.06	0.059518	2.95	5.09	19.56	1.02		0.96
WestTrib	46818.78	5-yr		37		7384.39	7385.44	7385.16	7385.5	0.008998	1.96	18.89	32.54	0.45	7.88	0.33
WestTrib	46818.78	10-yr		57		7384.39	7385.6	7385.3	7385.69	0.009871	2.33	24.49	34.87	0.49	7.98	0.43
WestTrib	46818.78	25-yr		110		7384.39	7385.95		7386.08	0.010714	2.94	37.37	39.75	0.54	8.14	0.63
WestTrib	46818.78	50-yr		140		7384.39	7386.11		7386.27	0.010899	3.19	43.94	42.03	0.55	8.22	0.71
WestTrib	46818.78	100-yr		170		7384.39	7386.24		7386.42	0.011475	3.44	49.43	43.81	0.57	8.3	0.8
WestTrib	46418.78	2-yr		12.46	2.54	7377.22	7377.41	7377.41	7377.48	0.076519	2.18	8.01	64.73	1.02	6.46	0.59
WestTrib	46418.78	5-yr		29.54	7.46	7377.22	7377.51	7377.51	7377.63	0.072436	2.97	14.7	71.06	1.06	6.96	0.94
WestTrib	46418.78	10-yr	0.02	44.23	12.75	7377.22	7377.6	7377.6	7377.73	0.062682	3.17	21.23	84.91	1.03	6.89	0.98
WestTrib	46418.78	25-yr	1.15	83.51	25.34	7377.22	7377.75	7377.75	7377.94	0.052411	3.88	34.98	95.15	1.02	7	1.2
WestTrib	46418.78	50-yr	2.11	105.15	32.74	7377.22	7377.81	7377.81	7378.04	0.052187	4.25	41.24	99	1.05	7.12	1.36
WestTrib	46418.78	100-yr	3.38	126.17	40.46	7377.22	7377.88	7377.88	7378.13	0.04812	4.46	48.4	103.23	1.03	7.01	1.41
WestTrib	46207.62	2-yr		15		7367.84	7368.73	7368.56	7368.8	0.016352	2.2	6.81	15.33	0.58	5.36	0.45
WestTrib	46207.62	5-yr		37		7367.84	7369.06	7368.86	7369.19	0.018737	2.9	12.74	20.96	0.66	5.59	0.71
WestTrib	46207.62	10-yr		57		7367.84	7369.25	7369.06	7369.42	0.019939	3.3	17.25	24.51	0.69	5.73	0.87
WestTrib	46207.62	25-yr		110		7367.84	7369.59	7369.41	7369.86	0.022804	4.17	26.35	29.15	0.77	5.96	1.28
WestTrib	46207.62	50-yr	0.02	139.98		7367.84	7369.74	7369.57	7370.06	0.023527	4.57	30.69	31.09	0.81	6.06	1.44
WestTrib	46207.62	100-yr	0.13	169.85	0.02	7367.84	7369.85	7369.71	7370.24	0.024196	4.98	34.36	32.66	0.85	6.14	1.58
WestTrib	46026.9	2-yr		15		7363.08	7363.37	7363.37	7363.44	0.069538	2.12	7.06	50.05	1	0.03	0.61
WestTrib	46026.9	5-yr		37		7363.08	7363.49	7363.49	7363.6	0.06019	2.66	13.92	63.22	1	0.07	0.83
WestTrib	46026.9	10-yr		57		7363.08	7363.57	7363.57	7363.7	0.057661	2.96	19.23	71.76	1.01	0.1	0.96
WestTrib	46026.9	25-yr		110		7363.08	7363.73	7363.73	7363.91	0.051226	3.42	32.18	88.76	1	0.21	1.16
WestTrib	46026.9	50-yr		140		7363.08	7363.8	7363.8	7364	0.050828	3.6	38.89	98.66	1.01	0.27	1.25

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	46026.9	100-yr		170		7363.08	7363.86	7363.86	7364.08	0.05026	3.8	44.7	103.55	1.02	0.33	1.35
WestTrib	45892.82	2-yr	0.02	14.93	0.04	7359.67	7362.13		7362.13	0.000014	0.15	104.12	74.98	0.02	0	0
WestTrib	45892.82	5-yr	0.08	36.76	0.16	7359.67	7362.24		7362.25	0.000066	0.34	112.57	76.74	0.05	0	0.01
WestTrib	45892.82	10-yr	0.16	56.53	0.3	7359.67	7362.33		7362.33	0.000132	0.49	119.18	78.09	0.07	0	0.01
WestTrib	45892.82	25-yr	0.49	108.63	0.88	7359.67	7362.51		7362.52	0.00035	0.86	133.67	80.97	0.12	0.01	0.04
WestTrib	45892.82	50-yr	0.74	137.95	1.31	7359.67	7362.6		7362.61	0.000488	1.04	140.69	82.33	0.14	0.01	0.05
WestTrib	45892.82	100-yr	1.04	167.16	1.81	7359.67	7362.67		7362.7	0.000631	1.21	147.08	83.55	0.16	0.01	0.07
WestTrib	45796.67	2-yr	0.82	12.75	1.43	7355.67	7362.13	7356.68	7362.13	0	0.05	392.02	138.28	0		0
WestTrib	45796.67	5-yr	2.13	31.22	3.65	7355.67	7362.25	7357	7362.25	0.000002	0.12	407.6	140.42	0.01		0
WestTrib	45796.67	10-yr	3.4	47.83	5.77	7355.67	7362.33	7357.17	7362.33	0.000005	0.18	419.67	142.06	0.02		0
WestTrib	45796.67	25-yr	7.06	91.22	11.72	7355.67	7362.51	7357.56	7362.52	0.000015	0.33	446.15	145.59	0.03		0
WestTrib	45796.67	50-yr	9.29	115.46	15.25	7355.67	7362.6	7357.7	7362.6	0.000023	0.4	458.94	147.26	0.04		0
WestTrib	45796.67	100-yr	11.6	139.52	18.88	7355.67	7362.68	7357.88	7362.68	0.000032	0.48	470.51	148.76	0.04		0.01
WestTrib	45766.17		Culvert													
WestTrib	45708.32	2-yr		15		7353.69	7354.49	7354.49	7354.7	0.051554	3.63	4.13	10.32	1.01	3.11	1.27
WestTrib	45708.32	5-yr		37		7353.69	7354.84	7354.84	7355.13	0.044878	4.32	8.57	14.87	1	3.38	1.59
WestTrib	45708.32	10-yr		57		7353.69	7355.24	7355.07	7355.45	0.022188	3.7	15.42	19.95	0.74	3.71	1.06
WestTrib	45708.32	25-yr		110		7353.69	7355.7	7355.47	7355.98	0.020141	4.23	26.01	25.53	0.74	3.61	1.26
WestTrib	45708.32	50-yr		140		7353.69	7355.88	7355.66	7356.2	0.020748	4.56	30.69	27.48	0.76	3.59	1.42
WestTrib	45708.32	100-yr		170		7353.69	7356.04	7355.82	7356.4	0.020983	4.82	35.3	29.36	0.77	3.53	1.55
WestTrib	45564.77	2-yr		24		7349.48	7350.81	7350.54	7350.92	0.014295	2.66	9.01	13.56	0.58	8.94	0.58
WestTrib	45564.77	5-yr		59		7349.48	7351.29	7351	7351.48	0.016797	3.54	16.65	18.44	0.66	9.21	0.93
WestTrib	45564.77	10-yr		89		7349.48	7351.41	7351.27	7351.75	0.028106	4.7	18.95	20.24	0.86	9.29	1.61
WestTrib	45564.77	25-yr		170		7349.48	7351.93	7351.82	7352.38	0.028695	5.36	31.7	28.32	0.89	9.54	1.97
WestTrib	45564.77	50-yr		210		7349.48	7352.14	7352.02	7352.61	0.027924	5.55	37.83	31.47	0.89	9.63	2.06
WestTrib	45564.77	100-yr		260		7349.48	7352.36	7352.22	7352.87	0.026889	5.73	45.34	34.94	0.89	9.71	2.14
WestTrib	45218.78	2-yr		24		7341.36	7341.85	7341.85	7341.98	0.060057	2.82	8.51	35.3	1.01		0.9
WestTrib	45218.78	5-yr	0.13	58.74	0.13	7341.36	7342.06	7342.06	7342.26	0.048485	3.67	16.39	44.11	1.06		1.12
WestTrib	45218.78	10-yr	2.01	86.29	0.7	7341.36	7342.28	7342.2	7342.46	0.025402	3.52	27.43	55.24	0.87	9.78	0.79
WestTrib	45218.78	25-yr	10.12	157.2	2.68	7341.36	7342.55	7342.48	7342.84	0.026255	4.52	44.1	68.69	0.96	9.75	1.05
WestTrib	45218.78	50-yr	15.91	190.21	3.89	7341.36	7342.64	7342.61	7342.99	0.027507	4.95	50.88	71.76	0.99	9.75	1.22
WestTrib	45218.78	100-yr	24.03	230.41	5.56	7341.36	7342.75	7342.74	7343.16	0.029133	5.44	58.45	74.43	1.03	9.76	1.43
WestTrib	44818.78	2-yr		24		7331.17	7331.74	7331.74	7331.93	0.051582	3.52	6.82	18.02	1.01		1.21
WestTrib	44818.78	5-yr		59		7331.17	7332.21	7332.06	7332.41	0.022494	3.55	16.61	23.15	0.74	8.2	1
WestTrib	44818.78	10-yr	0.05	88.95		7331.17	7332.43	7332.27	7332.69	0.023538	4.07	22.06	35.99	0.92	8.15	0.89

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	44818.78	25-yr	19.65	150.35		7331.17	7332.8	7332.78	7333.1	0.02267	4.67	47.94	82.6	1.02	7.94	0.82
WestTrib	44818.78	50-yr	34.56	175.44		7331.17	7332.94	7332.9	7333.25	0.021695	4.8	60.33	92.72	0.97	7.84	0.88
WestTrib	44818.78	100-yr	55.01	204.99		7331.17	7333.1	7333.02	7333.41	0.020603	4.91	76.22	107.91	0.93	7.75	0.91
WestTrib	44499.26	2-yr		24		7322.18	7323.41	7323.34	7323.63	0.035359	3.78	6.34	11.04	0.88	1.87	1.23
WestTrib	44499.26	5-yr		59		7322.18	7323.93	7323.81	7324.21	0.029476	4.28	13.8	17.55	0.85	2.01	1.41
WestTrib	44499.26	10-yr		89		7322.18	7324.22	7324.08	7324.54	0.02768	4.59	19.38	21.15	0.85	2.08	1.55
WestTrib	44499.26	25-yr		170		7322.18	7324.74	7324.61	7325.17	0.027265	5.27	32.24	28.38	0.87	2.24	1.9
WestTrib	44499.26	50-yr		210		7322.18	7324.93	7324.8	7325.41	0.027826	5.54	37.92	31.52	0.89	2.3	2.05
WestTrib	44499.26	100-yr		260		7322.18	7325.12	7325.03	7325.66	0.028804	5.87	44.32	34.72	0.92	2.37	2.26
WestTrib	44418.78	2-yr		24		7320.5	7321.67	7321.46	7321.76	0.015852	2.43	9.86	18.6	0.59	7.81	0.52
WestTrib	44418.78	5-yr		59		7320.5	7322.02	7321.84	7322.2	0.020796	3.36	17.54	24.97	0.71	7.99	0.9
WestTrib	44418.78	10-yr	0.11	88.89		7320.5	7322.22	7322.05	7322.46	0.02362	3.91	22.99	31.97	0.81	8.09	1.05
WestTrib	44418.78	25-yr	4.9	165.1		7320.5	7322.58	7322.51	7322.93	0.027835	4.84	38.3	53.24	0.99	8.22	1.24
WestTrib	44418.78	50-yr	10.02	199.98		7320.5	7322.71	7322.67	7323.1	0.028729	5.13	45.96	60.23	1.01	8.23	1.36
WestTrib	44418.78	100-yr	17.49	242.5	0.01	7320.5	7322.85	7322.83	7323.29	0.029387	5.47	54.77	67.62	1.04	8.27	1.48
WestTrib	44018.78	2-yr		24		7313.17	7313.89		7313.95	0.024605	1.96	12.27	45.06	0.66	7.43	0.42
WestTrib	44018.78	5-yr		59		7313.17	7314.13	7314	7314.21	0.019092	2.31	25.57	60.6	0.63	7.38	0.5
WestTrib	44018.78	10-yr		89		7313.17	7314.27	7314.1	7314.37	0.017359	2.6	34.29	63.42	0.62	7.37	0.58
WestTrib	44018.78	25-yr		170		7313.17	7314.57	7314.33	7314.72	0.015595	3.14	54.13	69.41	0.63	7.36	0.76
WestTrib	44018.78	50-yr		210		7313.17	7314.69		7314.86	0.015256	3.35	62.72	71.85	0.63	7.36	0.83
WestTrib	44018.78	100-yr		260		7313.17	7314.82		7315.02	0.015121	3.58	72.55	74.54	0.64	7.39	0.92
WestTrib	43618.78	2-yr		24		7305.88	7306.48	7306.33	7306.53	0.014607	1.83	13.09	35.83	0.53	3.88	0.33
WestTrib	43618.78	5-yr		59		7305.88	7306.73		7306.83	0.017836	2.51	23.55	46.93	0.62	3.96	0.56
WestTrib	43618.78	10-yr		89		7305.88	7306.88	7306.7	7307.01	0.019575	2.89	30.85	53.32	0.67	3.99	0.71
WestTrib	43618.78	25-yr	0.02	169.98		7305.88	7307.18		7307.36	0.022017	3.42	49.79	76.36	0.75	4.02	0.9
WestTrib	43618.78	50-yr	0.52	209.48		7305.88	7307.3		7307.5	0.022583	3.58	59.46	92.57	0.79	4.02	0.9
WestTrib	43618.78	100-yr	2.16	257.84		7305.88	7307.42		7307.63	0.023056	3.74	71.65	109.86	0.81	3.98	0.94
WestTrib	43453.91	2-yr		24		7301.97	7302.58	7302.55	7302.65	0.044163	2.13	11.27	56.45	0.84	2.1	0.55
WestTrib	43453.91	5-yr		59		7301.97	7302.75	7302.72	7302.87	0.03413	2.75	21.43	60.07	0.81	1.98	0.76
WestTrib	43453.91	10-yr		89		7301.97	7302.87	7302.8	7303.02	0.030636	3.11	28.66	61.86	0.8	1.93	0.88
WestTrib	43453.91	25-yr	0	169.96	0.04	7301.97	7303.12	7303.02	7303.35	0.027117	3.82	44.55	65.43	0.82	1.87	1.15
WestTrib	43453.91	50-yr	0.05	209.81	0.15	7301.97	7303.22	7303.12	7303.48	0.026254	4.12	51.24	66.78	0.83	1.85	1.25
WestTrib	43453.91	100-yr	0.22	259.39	0.39	7301.97	7303.34	7303.22	7303.64	0.025233	4.43	59.25	68.38	0.84	1.84	1.36
WestTrib	43386.36	2-yr		24		7299.45	7300.46	7300.35	7300.55	0.023122	2.31	10.38	27.95	0.67	5.66	0.53
WestTrib	43386.36	5-yr		59		7299.45	7300.74	7300.62	7300.88	0.025357	3.02	19.56	37.97	0.74	5.63	0.81
WestTrib	43386.36	10-yr		89		7299.45	7300.9	7300.78	7301.08	0.026691	3.42	26.03	43.58	0.78	5.61	0.98

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	43386.36	25-yr	0.02	169.87	0.11	7299.45	7301.19	7301.09	7301.47	0.028076	4.28	39.97	53.96	0.88	5.54	1.29
WestTrib	43386.36	50-yr	0.1	209.31	0.6	7299.45	7301.29	7301.21	7301.63	0.028471	4.67	45.77	57.94	0.92	5.5	1.39
WestTrib	43386.36	100-yr	0.27	257.83	1.89	7299.45	7301.4	7301.34	7301.81	0.029194	5.12	52.5	60.62	0.96	5.47	1.56
WestTrib	43218.78	2-yr		24		7294.2	7294.74	7294.74	7294.89	0.053834	3.12	7.69	25.18	1	4.54	1.02
WestTrib	43218.78	5-yr		59		7294.2	7294.99	7294.99	7295.24	0.046436	4.01	14.7	29.58	1	4.57	1.44
WestTrib	43218.78	10-yr		89		7294.2	7295.17	7295.17	7295.47	0.042954	4.45	20.01	32.51	1	4.53	1.65
WestTrib	43218.78	25-yr		170		7294.2	7295.52	7295.52	7295.94	0.039207	5.24	32.46	38.54	1.01	4.8	2.05
WestTrib	43218.78	50-yr		210		7294.2	7295.66	7295.66	7296.13	0.038086	5.52	38.05	40.83	1.01	4.83	2.21
WestTrib	43218.78	100-yr	0	260	0	7294.2	7295.81	7295.81	7296.34	0.036629	5.82	44.66	43.31	1.01	5	2.35
WestTrib	42818.78	2-yr		24		7285.58	7286.91		7286.95	0.004739	1.65	14.57	19.95	0.34	6.03	0.21
WestTrib	42818.78	5-yr		59		7285.58	7287.47		7287.54	0.004972	2.14	27.54	26.33	0.37	6.06	0.32
WestTrib	42818.78	10-yr		89		7285.58	7287.81		7287.9	0.005019	2.4	37.13	30.19	0.38	6.05	0.38
WestTrib	42818.78	25-yr		170		7285.58	7288.42		7288.56	0.005593	2.95	57.56	37.1	0.42	6.12	0.53
WestTrib	42818.78	50-yr		210		7285.58	7288.66		7288.82	0.005687	3.14	66.92	39.87	0.43	6.12	0.59
WestTrib	42818.78	100-yr		260		7285.58	7288.9		7289.08	0.006047	3.39	76.66	42.56	0.45	6.12	0.67
WestTrib	42418.78	2-yr		43		7279.67	7280.66	7280.66	7280.92	0.04723	4.04	10.64	21.42	1.01	8.26	1.46
WestTrib	42418.78	5-yr		110		7279.67	7281.11	7281.11	7281.49	0.041499	4.92	22.37	30.42	1.01	8.8	1.9
WestTrib	42418.78	10-yr		170		7279.67	7281.39	7281.39	7281.84	0.039464	5.42	31.39	35.56	1.02	9.15	2.16
WestTrib	42418.78	25-yr		310		7279.67	7281.88	7281.88	7282.43	0.03659	5.95	52.13	48.51	1.01	9.38	2.44
WestTrib	42418.78	50-yr		389.99	0.01	7279.67	7282.1	7282.1	7282.69	0.035103	6.19	63.01	54.93	1.02	9.35	2.5
WestTrib	42418.78	100-yr	0	479.25	0.75	7279.67	7282.3	7282.3	7282.95	0.032552	6.47	74.91	62.59	1.04	9.2	2.42
WestTrib	42018.78	2-yr		43		7267.87	7269.74	7269.32	7269.87	0.011442	2.98	14.45	15.49	0.54	5.1	0.65
WestTrib	42018.78	5-yr		110		7267.87	7270.45	7269.98	7270.69	0.013499	3.99	27.55	21.53	0.62	5.36	1.05
WestTrib	42018.78	10-yr		170		7267.87	7270.91	7270.39	7271.21	0.014782	4.35	39.05	28.82	0.66	5.49	1.22
WestTrib	42018.78	25-yr		310		7267.87	7271.59	7271.13	7271.97	0.016158	4.92	62.95	41.5	0.7	5.58	1.5
WestTrib	42018.78	50-yr		390		7267.87	7271.87	7271.43	7272.29	0.016522	5.19	75.17	46.67	0.72	5.57	1.63
WestTrib	42018.78	100-yr		480		7267.87	7272.13	7271.7	7272.59	0.016944	5.46	87.88	51.52	0.74	5.56	1.77
WestTrib	41774.8	2-yr		43		7263.58	7264.52	7264.52	7264.77	0.049342	3.99	10.79	22.86	1.02	1.03	1.45
WestTrib	41774.8	5-yr		110		7263.58	7264.94	7264.94	7265.34	0.041569	5.03	21.88	28.73	1.02	1.74	1.96
WestTrib	41774.8	10-yr		170		7263.58	7265.23	7265.23	7265.71	0.037917	5.61	30.32	31.53	1.01	2.05	2.26
WestTrib	41774.8	25-yr		310		7263.58	7265.73	7265.73	7266.39	0.034384	6.52	47.55	36.58	1.01	2.44	2.76
WestTrib	41774.8	50-yr		390		7263.58	7265.97	7265.97	7266.71	0.033144	6.89	56.61	38.98	1.01	2.58	2.97
WestTrib	41774.8	100-yr	0.06	479.94	0.01	7263.58	7266.2	7266.2	7267.03	0.031712	7.32	65.65	41.24	1.02	2.7	3.12
WestTrib	41539.1	2-yr		43		7260.77	7262.38		7262.4	0.001382	0.92	46.7	60.95	0.19	0.01	0.07
WestTrib	41539.1	5-yr		110		7260.77	7262.73		7262.77	0.002736	1.61	68.12	63.84	0.28	0.05	0.18
WestTrib	41539.1	10-yr		170		7260.77	7262.96		7263.03	0.003453	2.03	83.54	65.85	0.32	0.09	0.27

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	41539.1	25-yr		310		7260.77	7263.4		7263.52	0.004484	2.74	113.25	69.54	0.38	0.15	0.45
WestTrib	41539.1	50-yr		390		7260.77	7263.61		7263.76	0.004878	3.05	128.04	71.31	0.4	0.19	0.54
WestTrib	41539.1	100-yr		480		7260.77	7263.83		7264	0.005266	3.34	143.65	73.73	0.42	0.22	0.63
WestTrib	41465.66	2-yr	0.64	38.16	4.2	7257.5	7262.38	7258.93	7262.38	0.000058	0.47	115.09	63.38	0.06		0.01
WestTrib	41465.66	5-yr	3.11	94.57	12.33	7257.5	7262.7	7259.66	7262.71	0.000257	1.06	136.22	68.35	0.12		0.03
WestTrib	41465.66	10-yr	6.34	143.06	20.6	7257.5	7262.91	7260.08	7262.94	0.000483	1.51	151.12	71.64	0.17		0.06
WestTrib	41465.66	25-yr	16.38	250.42	43.2	7257.5	7263.29	7260.8	7263.36	0.001069	2.39	179.21	76.25	0.25		0.15
WestTrib	41465.66	50-yr	23.32	309.2	57.48	7257.5	7263.47	7261.09	7263.57	0.001415	2.83	192.82	78.15	0.29		0.21
WestTrib	41465.66	100-yr	31.95	373.73	74.32	7257.5	7263.64	7261.43	7263.78	0.001804	3.28	206.8	80.07	0.32		0.28
WestTrib	41441.59		Culvert													
WestTrib	41405.38	2-yr		43		7257.33	7258.27	7258.14	7258.44	0.026369	3.35	12.83	25	0.77	0.99	0.95
WestTrib	41405.38	5-yr		110		7257.33	7258.73	7258.6	7258.95	0.026345	3.78	29.09	41.35	0.79	0.96	1.14
WestTrib	41405.38	10-yr		170		7257.33	7258.96	7258.8	7259.25	0.025956	4.36	38.97	44.22	0.82	0.94	1.41
WestTrib	41405.38	25-yr		310		7257.33	7259.39	7259.26	7259.81	0.024835	5.23	59.29	49.6	0.84	0.92	1.83
WestTrib	41405.38	50-yr		390	0	7257.33	7259.6	7259.44	7260.08	0.024336	5.59	69.8	52.17	0.85	0.9	2.01
WestTrib	41405.38	100-yr		479.9	0.1	7257.33	7259.79	7259.64	7260.35	0.023897	5.99	80.27	54.6	0.87	0.89	2.17
WestTrib	41368.0*	2-yr		43		7256.12	7257.31		7257.46	0.025882	3.1	13.85	26.11	0.75	1.02	0.85
WestTrib	41368.0*	5-yr		110		7256.12	7257.75		7257.98	0.024963	3.86	28.53	37.9	0.78	0.99	1.16
WestTrib	41368.0*	10-yr		170		7256.12	7258		7258.31	0.024299	4.42	38.49	40.86	0.8	0.98	1.41
WestTrib	41368.0*	25-yr		310		7256.12	7258.46		7258.9	0.023914	5.32	58.25	46.18	0.84	0.94	1.86
WestTrib	41368.0*	50-yr		390		7256.12	7258.68		7259.18	0.023643	5.69	68.57	48.77	0.85	0.92	2.05
WestTrib	41368.0*	100-yr		479.99	0.01	7256.12	7258.89	7258.7	7259.46	0.023453	6.06	79.22	51.56	0.86	0.9	2.22
WestTrib	41330.7*	2-yr		43		7254.91	7256.25	7256.15	7256.43	0.029059	3.38	12.73	23.05	0.8	1.07	0.99
WestTrib	41330.7*	5-yr		110		7254.91	7256.72		7256.99	0.028202	4.17	26.36	34.11	0.84	0.99	1.35
WestTrib	41330.7*	10-yr		170		7254.91	7256.98	7256.86	7257.33	0.027958	4.8	35.43	36.92	0.86	0.97	1.66
WestTrib	41330.7*	25-yr		310		7254.91	7257.47		7257.96	0.026031	5.65	54.83	42.31	0.88	0.92	2.08
WestTrib	41330.7*	50-yr		390		7254.91	7257.7	7257.55	7258.26	0.025458	6.01	64.85	44.85	0.88	0.91	2.27
WestTrib	41330.7*	100-yr		480		7254.91	7257.94	7257.78	7258.56	0.024713	6.32	75.91	47.61	0.88	0.89	2.43
WestTrib	41293.4*	2-yr		43		7253.69	7255.18		7255.37	0.027983	3.53	12.18	20.02	0.8	1.11	1.05
WestTrib	41293.4*	5-yr		110		7253.69	7255.73		7256	0.025079	4.19	26.25	30.83	0.8	1.05	1.32
WestTrib	41293.4*	10-yr		170		7253.69	7256.03		7256.38	0.02389	4.73	35.97	34	0.81	1.01	1.56
WestTrib	41293.4*	25-yr		310		7253.69	7256.55		7257.04	0.023281	5.62	55.21	39.51	0.84	0.96	2
WestTrib	41293.4*	50-yr		390		7253.69	7256.79		7257.35	0.023186	6	65.04	42.04	0.85	0.94	2.21
WestTrib	41293.4*	100-yr		480		7253.69	7257.04	7256.84	7257.66	0.023193	6.36	75.45	44.63	0.86	0.92	2.41
WestTrib	41256.1*	2-yr		43		7252.48	7254.04	7253.94	7254.27	0.031276	3.89	11.06	17.02	0.85	1.1	1.24

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	41256.1*	5-yr		110		7252.48	7254.59	7254.51	7254.96	0.031078	4.85	22.66	24.95	0.9	1.03	1.73
WestTrib	41256.1*	10-yr		170		7252.48	7254.93	7254.84	7255.37	0.030111	5.34	31.81	29.66	0.91	0.97	1.98
WestTrib	41256.1*	25-yr		310		7252.48	7255.49	7255.38	7256.08	0.027933	6.2	50.03	35.28	0.92	0.88	2.43
WestTrib	41256.1*	50-yr		390		7252.48	7255.76	7255.64	7256.42	0.026777	6.51	59.88	37.97	0.91	0.85	2.59
WestTrib	41256.1*	100-yr		480		7252.48	7256.03	7255.9	7256.75	0.02558	6.79	70.71	40.71	0.91	0.81	2.73
WestTrib	41218.78	2-yr		43		7251.27	7252.93	7252.81	7253.17	0.028003	3.92	10.98	15.23	0.81	7.11	1.22
WestTrib	41218.78	5-yr		110		7251.27	7253.6	7253.41	7253.94	0.024178	4.67	23.55	22.58	0.81	6.92	1.53
WestTrib	41218.78	10-yr		170		7251.27	7254.01	7253.79	7254.4	0.022229	5.04	33.71	27.1	0.8	6.81	1.68
WestTrib	41218.78	25-yr		310		7251.27	7254.73	7254.39	7255.21	0.018488	5.52	56.14	34.33	0.76	6.75	1.84
WestTrib	41218.78	50-yr		390		7251.27	7255.05	7254.68	7255.57	0.017662	5.77	67.57	37.36	0.76	6.77	1.95
WestTrib	41218.78	100-yr		480		7251.27	7255.4	7254.95	7255.94	0.016388	5.93	80.96	40.66	0.74	6.81	1.99
WestTrib	40884.05	2-yr		43		7243.77	7245.86	7245.55	7246.07	0.016636	3.68	11.69	11.71	0.65	11.15	0.98
WestTrib	40884.05	5-yr		110		7243.77	7246.66	7246.32	7247.02	0.017885	4.76	23.1	16.63	0.71	11.63	1.46
WestTrib	40884.05	10-yr		170		7243.77	7247.16	7246.78	7247.59	0.018671	5.28	32.19	20.57	0.74	11.91	1.73
WestTrib	40884.05	25-yr	2.11	307.89		7243.77	7247.89	7247.64	7248.46	0.022044	6.08	52.3	35.04	0.87	12.26	1.97
WestTrib	40884.05	50-yr	5.55	384.45		7243.77	7248.17	7247.99	7248.81	0.023272	6.46	62.85	40.77	0.91	12.37	2.15
WestTrib	40884.05	100-yr	10.22	469.78		7243.77	7248.39	7248.31	7249.13	0.02576	6.99	72.29	45.29	0.97	12.44	2.47
WestTrib	40418.78	2-yr		43		7233.96	7234.77	7234.73	7234.93	0.037324	3.17	13.57	32.96	0.87	8.02	0.96
WestTrib	40418.78	5-yr		110		7233.96	7235.11	7235.07	7235.38	0.03719	4.21	26.14	41.38	0.93	7.45	1.46
WestTrib	40418.78	10-yr		170		7233.96	7235.33	7235.29	7235.68	0.037068	4.76	35.7	46.83	0.96	7.06	1.76
WestTrib	40418.78	25-yr		310		7233.96	7235.75	7235.69	7236.2	0.03185	5.38	57.57	56.03	0.94	6.39	2.03
WestTrib	40418.78	50-yr		390		7233.96	7235.93	7235.86	7236.44	0.030457	5.76	67.69	57.51	0.94	6.09	2.23
WestTrib	40418.78	100-yr		480		7233.96	7236.14	7236.04	7236.7	0.027534	6	80.01	59.27	0.91	5.83	2.31
WestTrib	40018.78	2-yr		67		7224.51	7226.41	7226.41	7226.92	0.014516	5.71	11.74	11.96	1.01	5.72	0.85
WestTrib	40018.78	5-yr		160		7224.51	7227.23	7227.23	7227.94	0.012809	6.75	23.7	17.07	1.01	5.2	1.06
WestTrib	40018.78	10-yr		250		7224.51	7227.79	7227.79	7228.62	0.011921	7.33	34.13	20.62	1	4.91	1.17
WestTrib	40018.78	25-yr		470		7224.51	7228.73	7228.73	7229.81	0.011084	8.32	56.51	26.74	1.01	4.69	1.39
WestTrib	40018.78	50-yr		600		7224.51	7229.18	7229.18	7230.35	0.010591	8.68	69.1	29.63	1	4.57	1.47
WestTrib	40018.78	100-yr		740		7224.51	7229.58	7229.58	7230.86	0.01035	9.07	81.63	32.25	1	4.5	1.56
WestTrib	39618.78	2-yr		67		7216.53	7218.34	7218.31	7218.7	0.013852	4.81	13.94	18.21	0.97	5.64	0.65
WestTrib	39618.78	5-yr		157.41	2.59	7216.53	7218.96	7218.96	7219.43	0.012816	5.55	30.88	35.53	1.04	5.13	0.68
WestTrib	39618.78	10-yr		242.04	7.96	7216.53	7219.33	7219.33	7219.89	0.012185	6.05	45.85	44.33	1.03	4.74	0.77
WestTrib	39618.78	25-yr		443.43	26.57	7216.53	7219.98	7219.98	7220.65	0.011802	6.78	80.13	62.5	1.03	3.79	0.93
WestTrib	39618.78	50-yr		561.35	38.65	7216.53	7220.24	7220.24	7221	0.011696	7.2	97.54	68.85	1.03	3.75	1.02
WestTrib	39618.78	100-yr	0	687.1	52.9	7216.53	7220.5	7220.5	7221.33	0.011505	7.56	115.79	74.96	1.04	3.59	1.09
WestTrib	39218.78	2-yr		67		7211.07	7212.57	7212.57	7213.07	0.014258	5.71	11.74	11.86	1.01	5.68	0.84

Falcon DBPS
West Tributary Existing Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	39218.78	5-yr		160		7211.07	7213.38	7213.38	7214.14	0.01269	6.96	22.99	15.65	1.01	5.01	1.1
WestTrib	39218.78	10-yr		249.73	0.27	7211.07	7213.96	7213.96	7214.86	0.011376	7.64	33.28	22.95	1.12	4.8	0.98
WestTrib	39218.78	25-yr	0.03	441.83	28.15	7211.07	7215.09	7215.09	7216.06	0.007656	8.15	77.05	54.63	1.17	3.76	0.66
WestTrib	39218.78	50-yr	0.31	542.09	57.6	7211.07	7215.46	7215.46	7216.55	0.007552	8.81	97.71	56.92	1.13	3.62	0.79
WestTrib	39218.78	100-yr	1.75	642.33	95.92	7211.07	7215.86	7215.86	7217.02	0.007089	9.25	122.29	68.57	1.14	3.4	0.77
WestTrib	38818.78	2-yr		67		7204.61	7206.09	7206.07	7206.5	0.014015	5.17	12.97	15.09	0.98	4.98	0.72
WestTrib	38818.78	5-yr		160		7204.61	7206.81	7206.78	7207.4	0.012134	6.19	25.86	20.54	0.97	5.12	0.91
WestTrib	38818.78	10-yr		250		7204.61	7207.25	7207.25	7208.01	0.012439	7	35.69	23.94	1.01	5.26	1.11
WestTrib	38818.78	25-yr		470		7204.61	7208.16	7208.16	7209.04	0.011646	7.53	62.43	35.95	1.01	4.81	1.22
WestTrib	38818.78	50-yr		599.89	0.11	7204.61	7208.48	7208.48	7209.5	0.010925	8.09	74.31	37.64	1.02	4.42	1.29
WestTrib	38818.78	100-yr	0.07	739.26	0.67	7204.61	7208.79	7208.79	7209.96	0.010392	8.66	86.21	39.63	1.03	4.2	1.35
WestTrib	38418.78	2-yr		67		7200.04	7201.23	7201.15	7201.53	0.010975	4.39	15.27	19.33	0.87	4.93	0.53
WestTrib	38418.78	5-yr		160		7200.04	7201.78	7201.78	7202.29	0.013386	5.71	28.01	27.76	1	5.08	0.83
WestTrib	38418.78	10-yr		250		7200.04	7202.22	7202.22	7202.75	0.013561	5.81	42.99	42.06	1.01	4.81	0.86
WestTrib	38418.78	25-yr	0.02	469.46	0.52	7200.04	7202.79	7202.79	7203.46	0.01211	6.57	72.55	63.69	1.08	4.3	0.85
WestTrib	38418.78	50-yr	0.21	595.49	4.3	7200.04	7203.05	7203.05	7203.8	0.010797	6.99	90.61	72.18	1.09	3.96	0.84
WestTrib	38418.78	100-yr	0.66	728.2	11.14	7200.04	7203.29	7203.29	7204.14	0.010114	7.42	108.14	73.77	1.07	3.78	0.92
WestTrib	38018.78	2-yr	1.05	65.16	0.8	7195.31	7196.32	7196.31	7196.59	0.013916	4.24	17.8	36.85	1.06	5.51	0.42
WestTrib	38018.78	5-yr	7.68	147.86	4.46	7195.31	7196.76	7196.76	7197.21	0.011998	5.63	36.9	50.08	1.11	5.11	0.55
WestTrib	38018.78	10-yr	18.44	221.67	9.89	7195.31	7197.09	7197.09	7197.66	0.010713	6.4	55.48	59.76	1.11	4.67	0.62
WestTrib	38018.78	25-yr	55.05	386.96	28	7195.31	7197.72	7197.72	7198.49	0.009571	7.73	97.77	75.55	1.09	4.39	0.77
WestTrib	38018.78	50-yr	81.23	477.53	41.23	7195.31	7198.02	7198.02	7198.88	0.009065	8.27	122.21	82.56	1.08	4.18	0.84
WestTrib	38018.78	100-yr	114.71	570.67	54.63	7195.31	7198.31	7198.31	7199.25	0.008801	8.81	146.56	87.82	1.06	4.06	0.91
WestTrib	37618.78	2-yr		67		7190.23	7190.9	7190.86	7191.07	0.013496	3.3	20.28	46.56	0.88	4.54	0.37
WestTrib	37618.78	5-yr		157.66	2.34	7190.23	7191.21	7191.21	7191.51	0.013404	4.46	39.63	84.38	1.14		0.39
WestTrib	37618.78	10-yr		237.96	12.04	7190.23	7191.43	7191.43	7191.81	0.012448	5.03	59.15	88.67	1.06	3.84	0.52
WestTrib	37618.78	25-yr	0.02	428.64	41.34	7190.23	7191.82	7191.82	7192.36	0.012266	6.19	94.72	94.59	1.04	4.41	0.77
WestTrib	37618.78	50-yr	0.21	539.7	60.09	7190.23	7192.01	7192.01	7192.65	0.011787	6.7	113.3	96.65	1.04	4.44	0.86
WestTrib	37618.78	100-yr	0.71	658.19	81.11	7190.23	7192.2	7192.2	7192.92	0.011392	7.18	132.09	98.7	1.04	4.52	0.95
WestTrib	37218.78	2-yr	0.1	57.94	8.97	7184.96	7186.34	7186.28	7186.54	0.009658	3.88	27.2	69.67	1.02	3.49	0.23
WestTrib	37218.78	5-yr	0.87	118.97	40.17	7184.96	7186.73	7186.7	7187.04	0.009492	5.15	65.65	130.11	1.11	3.56	0.3
WestTrib	37218.78	10-yr	1.99	157.16	90.85	7184.96	7187.03	7187.03	7187.32	0.007525	5.37	117.02	185.32	0.95	3.21	0.3
WestTrib	37218.78	25-yr	4.59	247.57	217.84	7184.96	7187.33	7187.33	7187.75	0.009804	6.97	173.59	189.03	0.95	3.14	0.56
WestTrib	37218.78	50-yr	6.42	294.29	299.29	7184.96	7187.5	7187.5	7187.96	0.010252	7.57	204.49	191.02	0.93	3.19	0.68
WestTrib	37218.78	100-yr	8.53	343.9	387.57	7184.96	7187.64	7187.64	7188.16	0.010914	8.21	232.51	192.82	0.93	3.28	0.82
WestTrib	36914.66	2-yr		48.14	18.86	7182.01	7182.91	7182.83	7183.04	0.01365	3.31	28.87	64.94	0.76	6.29	0.38

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	47452.25	2-yr		9		7410.2	7410.59	7410.57	7410.67	0.057877	2.38	3.78	19.64	0.96	1.76	0.69
WestTrib	47452.25	5-yr		21		7410.2	7410.74	7410.74	7410.85	0.059512	2.66	7.9	35.51	0.99	1.78	0.83
WestTrib	47452.25	10-yr		32		7410.2	7410.82	7410.82	7410.95	0.060295	2.96	10.83	41.98	1.03	1.72	0.97
WestTrib	47452.25	25-yr		58		7410.2	7410.96	7410.96	7411.13	0.056237	3.32	17.45	53.8	1.03	1.59	1.14
WestTrib	47452.25	50-yr		73		7410.2	7411.02	7411.02	7411.21	0.052171	3.42	21.35	59.69	1.01	1.52	1.16
WestTrib	47452.25	100-yr		89		7410.2	7411.08	7411.08	7411.28	0.051479	3.56	24.97	64.94	1.01	1.45	1.23
WestTrib	47423.5*	2-yr		9		7408.46	7408.83	7408.83	7408.92	0.06487	2.4	3.75	20.92	1	1.71	0.72
WestTrib	47423.5*	5-yr		21		7408.46	7408.97	7408.97	7409.08	0.064271	2.66	7.88	37.45	1.02	0.05	0.84
WestTrib	47423.5*	10-yr		32		7408.46	7409.05	7409.05	7409.17	0.059416	2.86	11.18	45.01	1.01	0.06	0.92
WestTrib	47423.5*	25-yr		58		7408.46	7409.18	7409.18	7409.34	0.054376	3.24	17.92	56.12	1.01	0.1	1.08
WestTrib	47423.5*	50-yr		73		7408.46	7409.24	7409.24	7409.42	0.05383	3.44	21.25	60.38	1.02	0.12	1.18
WestTrib	47423.5*	100-yr		89		7408.46	7409.3	7409.3	7409.49	0.049503	3.55	25.04	63.48	1	0.14	1.22
WestTrib	47394.8*	2-yr		9		7406.72	7407.1	7407.09	7407.16	0.05461	1.97	4.56	30.12	0.89	1.77	0.52
WestTrib	47394.8*	5-yr		21		7406.72	7408.11		7408.11	0.000148	0.32	66.51	81.27	0.06	0	0.01
WestTrib	47394.8*	10-yr		32		7406.72	7408.19		7408.2	0.000255	0.43	73.74	84.24	0.08	0	0.01
WestTrib	47394.8*	25-yr		58		7406.72	7408.33		7408.34	0.000553	0.68	85.71	89.84	0.12	0	0.03
WestTrib	47394.8*	50-yr		73		7406.72	7408.39		7408.4	0.000735	0.8	91.41	92.54	0.14	0.01	0.05
WestTrib	47394.8*	100-yr		89		7406.72	7408.45		7408.46	0.000934	0.92	96.86	95.05	0.16	0.01	0.06
WestTrib	47366.1*	2-yr		9		7404.98	7405.33	7405.33	7405.39	0.069848	2.11	4.27	30.72	1	0.04	0.61
WestTrib	47366.1*	5-yr	0.06	20.91	0.03	7404.98	7408.11		7408.11	0.000003	0.1	223.24	98.43	0.01	0	0
WestTrib	47366.1*	10-yr	0.11	31.84	0.05	7404.98	7408.19		7408.19	0.000007	0.14	231.86	98.92	0.02	0	0
WestTrib	47366.1*	25-yr	0.24	57.65	0.12	7404.98	7408.33		7408.33	0.000018	0.24	245.68	99.69	0.03	0	0
WestTrib	47366.1*	50-yr	0.32	72.52	0.16	7404.98	7408.4		7408.4	0.000027	0.3	251.92	100.04	0.03	0	0
WestTrib	47366.1*	100-yr	0.42	88.38	0.2	7404.98	7408.45		7408.46	0.000037	0.35	257.84	100.36	0.04	0	0.01
WestTrib	47337.4*	2-yr		9		7403.24	7404.34	7403.55	7404.34	0.000077	0.21	43.26	60.77	0.04	0	0
WestTrib	47337.4*	5-yr	0.2	20.69	0.11	7403.24	7408.11	7403.66	7408.11	0.000001	0.06	371.79	98.63	0.01	0	0
WestTrib	47337.4*	10-yr	0.32	31.51	0.17	7403.24	7408.19	7403.74	7408.19	0.000001	0.09	380.48	99.03	0.01	0	0
WestTrib	47337.4*	25-yr	0.63	57.04	0.33	7403.24	7408.33	7403.87	7408.33	0.000004	0.15	394.25	99.67	0.01	0	0
WestTrib	47337.4*	50-yr	0.81	71.76	0.43	7403.24	7408.4	7403.92	7408.4	0.000006	0.19	400.54	99.95	0.02	0	0
WestTrib	47337.4*	100-yr	1.02	87.48	0.5	7403.24	7408.45	7403.99	7408.46	0.000008	0.23	406.41	100.93	0.02	0	0
WestTrib	47308.71	2-yr		9		7401.5	7404.34	7401.82	7404.34	0.000008	0.16	56.79	82.41	0.02		0
WestTrib	47308.71	5-yr	0.33	20.4	0.27	7401.5	7408.11	7402.02	7408.11	0	0.04	532.04	153.26	0		0
WestTrib	47308.71	10-yr	0.52	31	0.48	7401.5	7408.19	7402.12	7408.19	0	0.07	545.54	154.06	0.01		0
WestTrib	47308.71	25-yr	0.97	55.93	1.1	7401.5	7408.33	7402.31	7408.33	0.000001	0.12	567.07	155.33	0.01		0
WestTrib	47308.71	50-yr	1.24	70.24	1.52	7401.5	7408.4	7402.41	7408.4	0.000002	0.14	576.79	155.9	0.01		0
WestTrib	47308.71	100-yr	1.54	85.46	2.01	7401.5	7408.45	7402.5	7408.45	0.000003	0.17	585.94	156.43	0.02		0

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (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 # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	47262	Culvert														
WestTrib	47224.28	2-yr		9		7400.63	7401.17	7401.17	7401.3	0.051606	2.85	3.16	11.44	0.96	7.75	0.88
WestTrib	47224.28	5-yr		21		7400.63	7401.39	7401.39	7401.57	0.049322	3.46	6.06	15.88	0.99	6.9	1.17
WestTrib	47224.28	10-yr		32		7400.63	7401.51	7401.51	7401.75	0.050153	3.87	8.27	18.55	1.02	6.76	1.39
WestTrib	47224.28	25-yr		58		7400.63	7401.78	7401.78	7402.05	0.042725	4.12	14.07	25.48	0.98	6.21	1.47
WestTrib	47224.28	50-yr		73		7400.63	7401.89	7401.89	7402.18	0.042069	4.25	17.16	29.32	0.98	6.01	1.53
WestTrib	47224.28	100-yr		89		7400.63	7401.99	7401.99	7402.29	0.040745	4.43	20.11	32.57	0.98	5.93	1.61
WestTrib	47079.43	2-yr		15		7392.78	7393.38	7393.38	7393.56	0.054487	3.34	4.5	13.41	1.02		1.13
WestTrib	47079.43	5-yr		37		7392.78	7393.68	7393.68	7393.93	0.046548	3.99	9.27	18.78	1	4.58	1.43
WestTrib	47079.43	10-yr		57		7392.78	7393.87	7393.87	7394.16	0.044693	4.32	13.2	23.02	1.01	4.82	1.59
WestTrib	47079.43	25-yr		110		7392.78	7394.21	7394.21	7394.58	0.042686	4.84	22.75	32.36	1.02	5.03	1.86
WestTrib	47079.43	50-yr		140		7392.78	7394.36	7394.36	7394.75	0.040828	5.01	27.94	36.45	1.01	5.01	1.94
WestTrib	47079.43	100-yr		170		7392.78	7394.48	7394.48	7394.91	0.040699	5.23	32.51	39.7	1.02	5.18	2.07
WestTrib	46818.78	2-yr		15		7384.39	7384.93	7384.93	7385.06	0.059518	2.95	5.09	19.56	1.02		0.96
WestTrib	46818.78	5-yr		37		7384.39	7385.44	7385.16	7385.5	0.008998	1.96	18.89	32.54	0.45	7.88	0.33
WestTrib	46818.78	10-yr		57		7384.39	7385.6	7385.3	7385.69	0.009871	2.33	24.49	34.87	0.49	7.98	0.43
WestTrib	46818.78	25-yr		110		7384.39	7385.95		7386.08	0.010714	2.94	37.37	39.75	0.54	8.14	0.63
WestTrib	46818.78	50-yr		140		7384.39	7386.11		7386.27	0.010899	3.19	43.94	42.03	0.55	8.22	0.71
WestTrib	46818.78	100-yr		170		7384.39	7386.24		7386.42	0.011475	3.44	49.43	43.81	0.57	8.3	0.8
WestTrib	46418.78	2-yr		12.46	2.54	7377.22	7377.41	7377.41	7377.48	0.076519	2.18	8.01	64.73	1.02	6.46	0.59
WestTrib	46418.78	5-yr		29.54	7.46	7377.22	7377.51	7377.51	7377.63	0.072436	2.97	14.7	71.06	1.06	6.96	0.94
WestTrib	46418.78	10-yr	0.02	44.23	12.75	7377.22	7377.6	7377.6	7377.73	0.062682	3.17	21.23	84.91	1.03	6.89	0.98
WestTrib	46418.78	25-yr	1.15	83.51	25.34	7377.22	7377.75	7377.75	7377.94	0.052411	3.88	34.98	95.15	1.02	7	1.2
WestTrib	46418.78	50-yr	2.11	105.15	32.74	7377.22	7377.81	7377.81	7378.04	0.052187	4.25	41.24	99	1.05	7.12	1.36
WestTrib	46418.78	100-yr	3.38	126.17	40.46	7377.22	7377.88	7377.88	7378.13	0.04812	4.46	48.4	103.23	1.03	7.01	1.41
WestTrib	46207.62	2-yr		15		7367.84	7368.73	7368.56	7368.8	0.016352	2.2	6.81	15.33	0.58	5.36	0.45
WestTrib	46207.62	5-yr		37		7367.84	7369.06	7368.86	7369.19	0.018737	2.9	12.74	20.96	0.66	5.59	0.71
WestTrib	46207.62	10-yr		57		7367.84	7369.25	7369.06	7369.42	0.019939	3.3	17.25	24.51	0.69	5.73	0.87
WestTrib	46207.62	25-yr		110		7367.84	7369.59	7369.41	7369.86	0.022804	4.17	26.35	29.15	0.77	5.96	1.28
WestTrib	46207.62	50-yr	0.02	139.98		7367.84	7369.74	7369.57	7370.06	0.023527	4.57	30.69	31.09	0.81	6.06	1.44
WestTrib	46207.62	100-yr	0.13	169.85	0.02	7367.84	7369.85	7369.71	7370.24	0.024196	4.98	34.36	32.66	0.85	6.14	1.58
WestTrib	46026.9	2-yr		15		7363.08	7363.37	7363.37	7363.44	0.069538	2.12	7.06	50.05	1	0.03	0.61
WestTrib	46026.9	5-yr		37		7363.08	7363.49	7363.49	7363.6	0.06019	2.66	13.92	63.22	1	0.07	0.83
WestTrib	46026.9	10-yr		57		7363.08	7363.57	7363.57	7363.7	0.057661	2.96	19.23	71.76	1.01	0.1	0.96
WestTrib	46026.9	25-yr		110		7363.08	7363.73	7363.73	7363.91	0.051226	3.42	32.18	88.76	1	0.21	1.16
WestTrib	46026.9	50-yr		140		7363.08	7363.8	7363.8	7364	0.050828	3.6	38.89	98.66	1.01	0.27	1.25

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	46026.9	100-yr		170		7363.08	7363.86	7363.86	7364.08	0.05026	3.8	44.7	103.55	1.02	0.33	1.35
WestTrib	45892.82	2-yr	0.02	14.93	0.04	7359.67	7362.13		7362.13	0.000014	0.15	104.12	74.98	0.02	0	0
WestTrib	45892.82	5-yr	0.08	36.76	0.16	7359.67	7362.24		7362.25	0.000066	0.34	112.57	76.74	0.05	0	0.01
WestTrib	45892.82	10-yr	0.16	56.53	0.3	7359.67	7362.33		7362.33	0.000132	0.49	119.18	78.09	0.07	0	0.01
WestTrib	45892.82	25-yr	0.49	108.63	0.88	7359.67	7362.51		7362.52	0.00035	0.86	133.67	80.97	0.12	0.01	0.04
WestTrib	45892.82	50-yr	0.74	137.95	1.31	7359.67	7362.6		7362.61	0.000488	1.04	140.69	82.33	0.14	0.01	0.05
WestTrib	45892.82	100-yr	1.04	167.16	1.81	7359.67	7362.67		7362.7	0.000631	1.21	147.08	83.55	0.16	0.01	0.07
WestTrib	45796.67	2-yr	0.82	12.75	1.43	7355.67	7362.13	7356.68	7362.13	0	0.05	392.02	138.28	0		0
WestTrib	45796.67	5-yr	2.13	31.22	3.65	7355.67	7362.25	7357	7362.25	0.000002	0.12	407.6	140.42	0.01		0
WestTrib	45796.67	10-yr	3.4	47.83	5.77	7355.67	7362.33	7357.17	7362.33	0.000005	0.18	419.67	142.06	0.02		0
WestTrib	45796.67	25-yr	7.06	91.22	11.72	7355.67	7362.51	7357.56	7362.52	0.000015	0.33	446.15	145.59	0.03		0
WestTrib	45796.67	50-yr	9.29	115.46	15.25	7355.67	7362.6	7357.7	7362.6	0.000023	0.4	458.94	147.26	0.04		0
WestTrib	45796.67	100-yr	11.6	139.52	18.88	7355.67	7362.68	7357.88	7362.68	0.000032	0.48	470.51	148.76	0.04		0.01
WestTrib	45766.17		Culvert													
WestTrib	45708.32	2-yr		15		7353.69	7354.49	7354.49	7354.7	0.051554	3.63	4.13	10.32	1.01	3.11	1.27
WestTrib	45708.32	5-yr		37		7353.69	7354.84	7354.84	7355.13	0.044878	4.32	8.57	14.87	1	3.38	1.59
WestTrib	45708.32	10-yr		57		7353.69	7355.24	7355.07	7355.45	0.022188	3.7	15.42	19.95	0.74	3.71	1.06
WestTrib	45708.32	25-yr		110		7353.69	7355.7	7355.47	7355.98	0.020141	4.23	26.01	25.53	0.74	3.61	1.26
WestTrib	45708.32	50-yr		140		7353.69	7355.88	7355.66	7356.2	0.020748	4.56	30.69	27.48	0.76	3.59	1.42
WestTrib	45708.32	100-yr		170		7353.69	7356.04	7355.82	7356.4	0.020983	4.82	35.3	29.36	0.77	3.53	1.55
WestTrib	45564.77	2-yr		24		7349.48	7350.81	7350.54	7350.92	0.014295	2.66	9.01	13.56	0.58	8.94	0.58
WestTrib	45564.77	5-yr		59		7349.48	7351.29	7351	7351.48	0.016797	3.54	16.65	18.44	0.66	9.21	0.93
WestTrib	45564.77	10-yr		89		7349.48	7351.41	7351.27	7351.75	0.028106	4.7	18.95	20.24	0.86	9.29	1.61
WestTrib	45564.77	25-yr		170		7349.48	7351.93	7351.82	7352.38	0.028695	5.36	31.7	28.32	0.89	9.54	1.97
WestTrib	45564.77	50-yr		210		7349.48	7352.14	7352.02	7352.61	0.027924	5.55	37.83	31.47	0.89	9.63	2.06
WestTrib	45564.77	100-yr		260		7349.48	7352.36	7352.22	7352.87	0.026889	5.73	45.34	34.94	0.89	9.71	2.14
WestTrib	45218.78	2-yr		24		7341.36	7341.85	7341.85	7341.98	0.060057	2.82	8.51	35.3	1.01		0.9
WestTrib	45218.78	5-yr	0.13	58.74	0.13	7341.36	7342.06	7342.06	7342.26	0.048485	3.67	16.39	44.11	1.06		1.12
WestTrib	45218.78	10-yr	2.01	86.29	0.7	7341.36	7342.28	7342.2	7342.46	0.025402	3.52	27.43	55.24	0.87	9.78	0.79
WestTrib	45218.78	25-yr	10.12	157.2	2.68	7341.36	7342.55	7342.48	7342.84	0.026255	4.52	44.1	68.69	0.96	9.75	1.05
WestTrib	45218.78	50-yr	15.91	190.21	3.89	7341.36	7342.64	7342.61	7342.99	0.027507	4.95	50.88	71.76	0.99	9.75	1.22
WestTrib	45218.78	100-yr	24.03	230.41	5.56	7341.36	7342.75	7342.74	7343.16	0.029133	5.44	58.45	74.43	1.03	9.76	1.43
WestTrib	44818.78	2-yr		24		7331.17	7331.74	7331.74	7331.93	0.051582	3.52	6.82	18.02	1.01		1.21
WestTrib	44818.78	5-yr		59		7331.17	7332.21	7332.06	7332.41	0.022494	3.55	16.61	23.15	0.74	8.2	1
WestTrib	44818.78	10-yr	0.05	88.95		7331.17	7332.43	7332.27	7332.69	0.023538	4.07	22.06	35.99	0.92	8.15	0.89

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	44818.78	25-yr	19.65	150.35		7331.17	7332.8	7332.78	7333.1	0.02267	4.67	47.94	82.6	1.02	7.94	0.82
WestTrib	44818.78	50-yr	34.56	175.44		7331.17	7332.94	7332.9	7333.25	0.021695	4.8	60.33	92.72	0.97	7.84	0.88
WestTrib	44818.78	100-yr	55.01	204.99		7331.17	7333.1	7333.02	7333.41	0.020603	4.91	76.22	107.91	0.93	7.75	0.91
WestTrib	44499.26	2-yr		24		7322.18	7323.41	7323.34	7323.63	0.035359	3.78	6.34	11.04	0.88	1.87	1.23
WestTrib	44499.26	5-yr		59		7322.18	7323.93	7323.81	7324.21	0.029476	4.28	13.8	17.55	0.85	2.01	1.41
WestTrib	44499.26	10-yr		89		7322.18	7324.22	7324.08	7324.54	0.02768	4.59	19.38	21.15	0.85	2.08	1.55
WestTrib	44499.26	25-yr		170		7322.18	7324.74	7324.61	7325.17	0.027265	5.27	32.24	28.38	0.87	2.24	1.9
WestTrib	44499.26	50-yr		210		7322.18	7324.93	7324.8	7325.41	0.027826	5.54	37.92	31.52	0.89	2.3	2.05
WestTrib	44499.26	100-yr		260		7322.18	7325.12	7325.03	7325.66	0.028804	5.87	44.32	34.72	0.92	2.37	2.26
WestTrib	44418.78	2-yr		24		7320.5	7321.67	7321.46	7321.76	0.015852	2.43	9.86	18.6	0.59	7.81	0.52
WestTrib	44418.78	5-yr		59		7320.5	7322.02	7321.84	7322.2	0.020796	3.36	17.54	24.97	0.71	7.99	0.9
WestTrib	44418.78	10-yr	0.11	88.89		7320.5	7322.22	7322.05	7322.46	0.02362	3.91	22.99	31.97	0.81	8.09	1.05
WestTrib	44418.78	25-yr	4.9	165.1		7320.5	7322.58	7322.51	7322.93	0.027835	4.84	38.3	53.24	0.99	8.22	1.24
WestTrib	44418.78	50-yr	10.02	199.98		7320.5	7322.71	7322.67	7323.1	0.028729	5.13	45.96	60.23	1.01	8.23	1.36
WestTrib	44418.78	100-yr	17.49	242.5	0.01	7320.5	7322.85	7322.83	7323.29	0.029387	5.47	54.77	67.62	1.04	8.27	1.48
WestTrib	44018.78	2-yr		24		7313.17	7313.89		7313.95	0.024605	1.96	12.27	45.06	0.66	7.43	0.42
WestTrib	44018.78	5-yr		59		7313.17	7314.13	7314	7314.21	0.019092	2.31	25.57	60.6	0.63	7.38	0.5
WestTrib	44018.78	10-yr		89		7313.17	7314.27	7314.1	7314.37	0.017359	2.6	34.29	63.42	0.62	7.37	0.58
WestTrib	44018.78	25-yr		170		7313.17	7314.57	7314.33	7314.72	0.015595	3.14	54.13	69.41	0.63	7.36	0.76
WestTrib	44018.78	50-yr		210		7313.17	7314.69		7314.86	0.015256	3.35	62.72	71.85	0.63	7.36	0.83
WestTrib	44018.78	100-yr		260		7313.17	7314.82		7315.02	0.015121	3.58	72.55	74.54	0.64	7.39	0.92
WestTrib	43618.78	2-yr		24		7305.88	7306.48	7306.33	7306.53	0.014607	1.83	13.09	35.83	0.53	3.88	0.33
WestTrib	43618.78	5-yr		59		7305.88	7306.73		7306.83	0.017836	2.51	23.55	46.93	0.62	3.96	0.56
WestTrib	43618.78	10-yr		89		7305.88	7306.88	7306.7	7307.01	0.019575	2.89	30.85	53.32	0.67	3.99	0.71
WestTrib	43618.78	25-yr	0.02	169.98		7305.88	7307.18		7307.36	0.022017	3.42	49.79	76.36	0.75	4.02	0.9
WestTrib	43618.78	50-yr	0.52	209.48		7305.88	7307.3		7307.5	0.022583	3.58	59.46	92.57	0.79	4.02	0.9
WestTrib	43618.78	100-yr	2.16	257.84		7305.88	7307.42		7307.63	0.023056	3.74	71.65	109.86	0.81	3.98	0.94
WestTrib	43453.91	2-yr		24		7301.97	7302.58	7302.55	7302.65	0.044163	2.13	11.27	56.45	0.84	2.1	0.55
WestTrib	43453.91	5-yr		59		7301.97	7302.75	7302.72	7302.87	0.03413	2.75	21.43	60.07	0.81	1.98	0.76
WestTrib	43453.91	10-yr		89		7301.97	7302.87	7302.8	7303.02	0.030636	3.11	28.66	61.86	0.8	1.93	0.88
WestTrib	43453.91	25-yr	0	169.96	0.04	7301.97	7303.12	7303.02	7303.35	0.027117	3.82	44.55	65.43	0.82	1.87	1.15
WestTrib	43453.91	50-yr	0.05	209.81	0.15	7301.97	7303.22	7303.12	7303.48	0.026254	4.12	51.24	66.78	0.83	1.85	1.25
WestTrib	43453.91	100-yr	0.22	259.39	0.39	7301.97	7303.34	7303.22	7303.64	0.025233	4.43	59.25	68.38	0.84	1.84	1.36
WestTrib	43386.36	2-yr		24		7299.45	7300.46	7300.35	7300.55	0.023122	2.31	10.38	27.95	0.67	5.66	0.53
WestTrib	43386.36	5-yr		59		7299.45	7300.74	7300.62	7300.88	0.025357	3.02	19.56	37.97	0.74	5.63	0.81
WestTrib	43386.36	10-yr		89		7299.45	7300.9	7300.78	7301.08	0.026691	3.42	26.03	43.58	0.78	5.61	0.98

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left (cfs)	Q Channel (cfs)	Q Right (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 # XS	Headloss (ft)	Shear Total (lb/sq ft)
WestTrib	43386.36	25-yr	0.02	169.87	0.11	7299.45	7301.19	7301.09	7301.47	0.028076	4.28	39.97	53.96	0.88	5.54	1.29
WestTrib	43386.36	50-yr	0.1	209.31	0.6	7299.45	7301.29	7301.21	7301.63	0.028471	4.67	45.77	57.94	0.92	5.5	1.39
WestTrib	43386.36	100-yr	0.27	257.83	1.89	7299.45	7301.4	7301.34	7301.81	0.029194	5.12	52.5	60.62	0.96	5.47	1.56
WestTrib	43218.78	2-yr		24		7294.2	7294.74	7294.74	7294.89	0.053834	3.12	7.69	25.18	1	4.54	1.02
WestTrib	43218.78	5-yr		59		7294.2	7294.99	7294.99	7295.24	0.046436	4.01	14.7	29.58	1	4.57	1.44
WestTrib	43218.78	10-yr		89		7294.2	7295.17	7295.17	7295.47	0.042954	4.45	20.01	32.51	1	4.53	1.65
WestTrib	43218.78	25-yr		170		7294.2	7295.52	7295.52	7295.94	0.039207	5.24	32.46	38.54	1.01	4.8	2.05
WestTrib	43218.78	50-yr		210		7294.2	7295.66	7295.66	7296.13	0.038086	5.52	38.05	40.83	1.01	4.83	2.21
WestTrib	43218.78	100-yr	0	260	0	7294.2	7295.81	7295.81	7296.34	0.036629	5.82	44.66	43.31	1.01	5	2.35
WestTrib	42818.78	2-yr		24		7285.58	7286.91		7286.95	0.004739	1.65	14.57	19.95	0.34	6.03	0.21
WestTrib	42818.78	5-yr		59		7285.58	7287.47		7287.54	0.004972	2.14	27.54	26.33	0.37	6.06	0.32
WestTrib	42818.78	10-yr		89		7285.58	7287.81		7287.9	0.005019	2.4	37.13	30.19	0.38	6.05	0.38
WestTrib	42818.78	25-yr		170		7285.58	7288.42		7288.56	0.005593	2.95	57.56	37.1	0.42	6.12	0.53
WestTrib	42818.78	50-yr		210		7285.58	7288.66		7288.82	0.005687	3.14	66.92	39.87	0.43	6.12	0.59
WestTrib	42818.78	100-yr		260		7285.58	7288.9		7289.08	0.006047	3.39	76.66	42.56	0.45	6.12	0.67
WestTrib	42418.78	2-yr		43		7279.67	7280.66	7280.66	7280.92	0.04723	4.04	10.64	21.42	1.01	8.26	1.46
WestTrib	42418.78	5-yr		110		7279.67	7281.11	7281.11	7281.49	0.041499	4.92	22.37	30.42	1.01	8.8	1.9
WestTrib	42418.78	10-yr		170		7279.67	7281.39	7281.39	7281.84	0.039464	5.42	31.39	35.56	1.02	9.15	2.16
WestTrib	42418.78	25-yr		310		7279.67	7281.88	7281.88	7282.43	0.03659	5.95	52.13	48.51	1.01	9.38	2.44
WestTrib	42418.78	50-yr		389.99	0.01	7279.67	7282.1	7282.1	7282.69	0.035103	6.19	63.01	54.93	1.02	9.35	2.5
WestTrib	42418.78	100-yr	0	479.25	0.75	7279.67	7282.3	7282.3	7282.95	0.032552	6.47	74.91	62.59	1.04	9.2	2.42
WestTrib	42018.78	2-yr		43		7267.87	7269.74	7269.32	7269.87	0.011442	2.98	14.45	15.49	0.54	5.1	0.65
WestTrib	42018.78	5-yr		110		7267.87	7270.45	7269.98	7270.69	0.013499	3.99	27.55	21.53	0.62	5.36	1.05
WestTrib	42018.78	10-yr		170		7267.87	7270.91	7270.39	7271.21	0.014782	4.35	39.05	28.82	0.66	5.49	1.22
WestTrib	42018.78	25-yr		310		7267.87	7271.59	7271.13	7271.97	0.016158	4.92	62.95	41.5	0.7	5.58	1.5
WestTrib	42018.78	50-yr		390		7267.87	7271.87	7271.43	7272.29	0.016522	5.19	75.17	46.67	0.72	5.57	1.63
WestTrib	42018.78	100-yr		480		7267.87	7272.13	7271.7	7272.59	0.016944	5.46	87.88	51.52	0.74	5.56	1.77
WestTrib	41774.8	2-yr		43		7263.58	7264.52	7264.52	7264.77	0.049342	3.99	10.79	22.86	1.02	1.03	1.45
WestTrib	41774.8	5-yr		110		7263.58	7264.94	7264.94	7265.34	0.041569	5.03	21.88	28.73	1.02	1.74	1.96
WestTrib	41774.8	10-yr		170		7263.58	7265.23	7265.23	7265.71	0.037917	5.61	30.32	31.53	1.01	2.05	2.26
WestTrib	41774.8	25-yr		310		7263.58	7265.73	7265.73	7266.39	0.034384	6.52	47.55	36.58	1.01	2.44	2.76
WestTrib	41774.8	50-yr		390		7263.58	7265.97	7265.97	7266.71	0.033144	6.89	56.61	38.98	1.01	2.58	2.97
WestTrib	41774.8	100-yr	0.06	479.94	0.01	7263.58	7266.2	7266.2	7267.03	0.031712	7.32	65.65	41.24	1.02	2.7	3.12
WestTrib	41539.1	2-yr		43		7260.77	7262.38		7262.4	0.001382	0.92	46.7	60.95	0.19	0.01	0.07
WestTrib	41539.1	5-yr		110		7260.77	7262.73		7262.77	0.002736	1.61	68.12	63.84	0.28	0.05	0.18
WestTrib	41539.1	10-yr		170		7260.77	7262.96		7263.03	0.003453	2.03	83.54	65.85	0.32	0.09	0.27

Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	41539.1	25-yr		310		7260.77	7263.4		7263.52	0.004484	2.74	113.25	69.54	0.38	0.15	0.45
WestTrib	41539.1	50-yr		390		7260.77	7263.61		7263.76	0.004878	3.05	128.04	71.31	0.4	0.19	0.54
WestTrib	41539.1	100-yr		480		7260.77	7263.83		7264	0.005266	3.34	143.65	73.73	0.42	0.22	0.63
WestTrib	41465.66	2-yr	0.64	38.16	4.2	7257.5	7262.38	7258.93	7262.38	0.000058	0.47	115.09	63.38	0.06		0.01
WestTrib	41465.66	5-yr	3.11	94.57	12.33	7257.5	7262.7	7259.66	7262.71	0.000257	1.06	136.22	68.35	0.12		0.03
WestTrib	41465.66	10-yr	6.34	143.06	20.6	7257.5	7262.91	7260.08	7262.94	0.000483	1.51	151.12	71.64	0.17		0.06
WestTrib	41465.66	25-yr	16.38	250.42	43.2	7257.5	7263.29	7260.8	7263.36	0.001069	2.39	179.21	76.25	0.25		0.15
WestTrib	41465.66	50-yr	23.32	309.2	57.48	7257.5	7263.47	7261.09	7263.57	0.001415	2.83	192.82	78.15	0.29		0.21
WestTrib	41465.66	100-yr	31.95	373.73	74.32	7257.5	7263.64	7261.43	7263.78	0.001804	3.28	206.8	80.07	0.32		0.28
WestTrib	41441.59		Culvert													
WestTrib	41405.38	2-yr		43		7257.33	7258.27	7258.14	7258.44	0.026281	3.35	12.85	25.05	0.77	0.99	0.95
WestTrib	41405.38	5-yr		110		7257.33	7258.73	7258.6	7258.95	0.026345	3.78	29.09	41.35	0.79	0.96	1.14
WestTrib	41405.38	10-yr		170		7257.33	7258.96	7258.8	7259.25	0.025956	4.36	38.97	44.22	0.82	0.94	1.41
WestTrib	41405.38	25-yr		310		7257.33	7259.39	7259.26	7259.81	0.024835	5.23	59.29	49.6	0.84	0.92	1.83
WestTrib	41405.38	50-yr		390	0	7257.33	7259.6	7259.44	7260.08	0.024336	5.59	69.8	52.17	0.85	0.9	2.01
WestTrib	41405.38	100-yr		479.9	0.1	7257.33	7259.79	7259.64	7260.35	0.023897	5.99	80.27	54.6	0.87	0.89	2.17
WestTrib	41368.0*	2-yr		43		7256.12	7257.31		7257.46	0.025954	3.11	13.84	26.1	0.75	1.02	0.85
WestTrib	41368.0*	5-yr		110		7256.12	7257.75		7257.98	0.024963	3.86	28.53	37.9	0.78	0.99	1.16
WestTrib	41368.0*	10-yr		170		7256.12	7258		7258.31	0.024299	4.42	38.49	40.86	0.8	0.98	1.41
WestTrib	41368.0*	25-yr		310		7256.12	7258.46		7258.9	0.023914	5.32	58.25	46.18	0.84	0.94	1.86
WestTrib	41368.0*	50-yr		390		7256.12	7258.68		7259.18	0.023643	5.69	68.57	48.77	0.85	0.92	2.05
WestTrib	41368.0*	100-yr		479.99	0.01	7256.12	7258.89	7258.7	7259.46	0.023453	6.06	79.22	51.56	0.86	0.9	2.22
WestTrib	41330.7*	2-yr		43		7254.91	7256.26	7256.15	7256.43	0.028858	3.37	12.76	23.08	0.8	1.07	0.98
WestTrib	41330.7*	5-yr		110		7254.91	7256.72		7256.99	0.028202	4.17	26.36	34.11	0.84	0.99	1.35
WestTrib	41330.7*	10-yr		170		7254.91	7256.98	7256.86	7257.33	0.027958	4.8	35.43	36.92	0.86	0.97	1.66
WestTrib	41330.7*	25-yr		310		7254.91	7257.47		7257.96	0.026003	5.65	54.85	42.31	0.87	0.92	2.08
WestTrib	41330.7*	50-yr		390		7254.91	7257.7	7257.55	7258.26	0.025458	6.01	64.85	44.85	0.88	0.91	2.27
WestTrib	41330.7*	100-yr		480		7254.91	7257.94	7257.78	7258.56	0.024713	6.32	75.91	47.61	0.88	0.89	2.43
WestTrib	41293.4*	2-yr		43		7253.69	7255.18		7255.37	0.028162	3.54	12.15	20	0.8	1.11	1.05
WestTrib	41293.4*	5-yr		110		7253.69	7255.73		7256	0.025079	4.19	26.25	30.83	0.8	1.05	1.32
WestTrib	41293.4*	10-yr		170		7253.69	7256.03		7256.38	0.02389	4.73	35.97	34	0.81	1.01	1.56
WestTrib	41293.4*	25-yr		310		7253.69	7256.55		7257.04	0.023327	5.62	55.17	39.5	0.84	0.96	2.01
WestTrib	41293.4*	50-yr		390		7253.69	7256.8		7257.35	0.023165	5.99	65.06	42.05	0.85	0.94	2.21
WestTrib	41293.4*	100-yr		480		7253.69	7257.04	7256.84	7257.66	0.023193	6.36	75.45	44.63	0.86	0.92	2.41
WestTrib	41256.1*	2-yr		43		7252.48	7254.04	7253.94	7254.27	0.03109	3.88	11.09	17.04	0.85	1.11	1.24

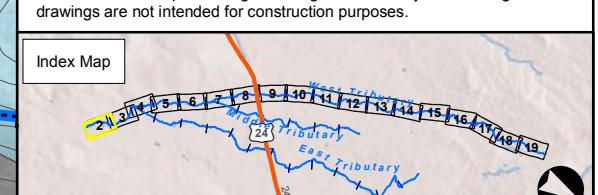
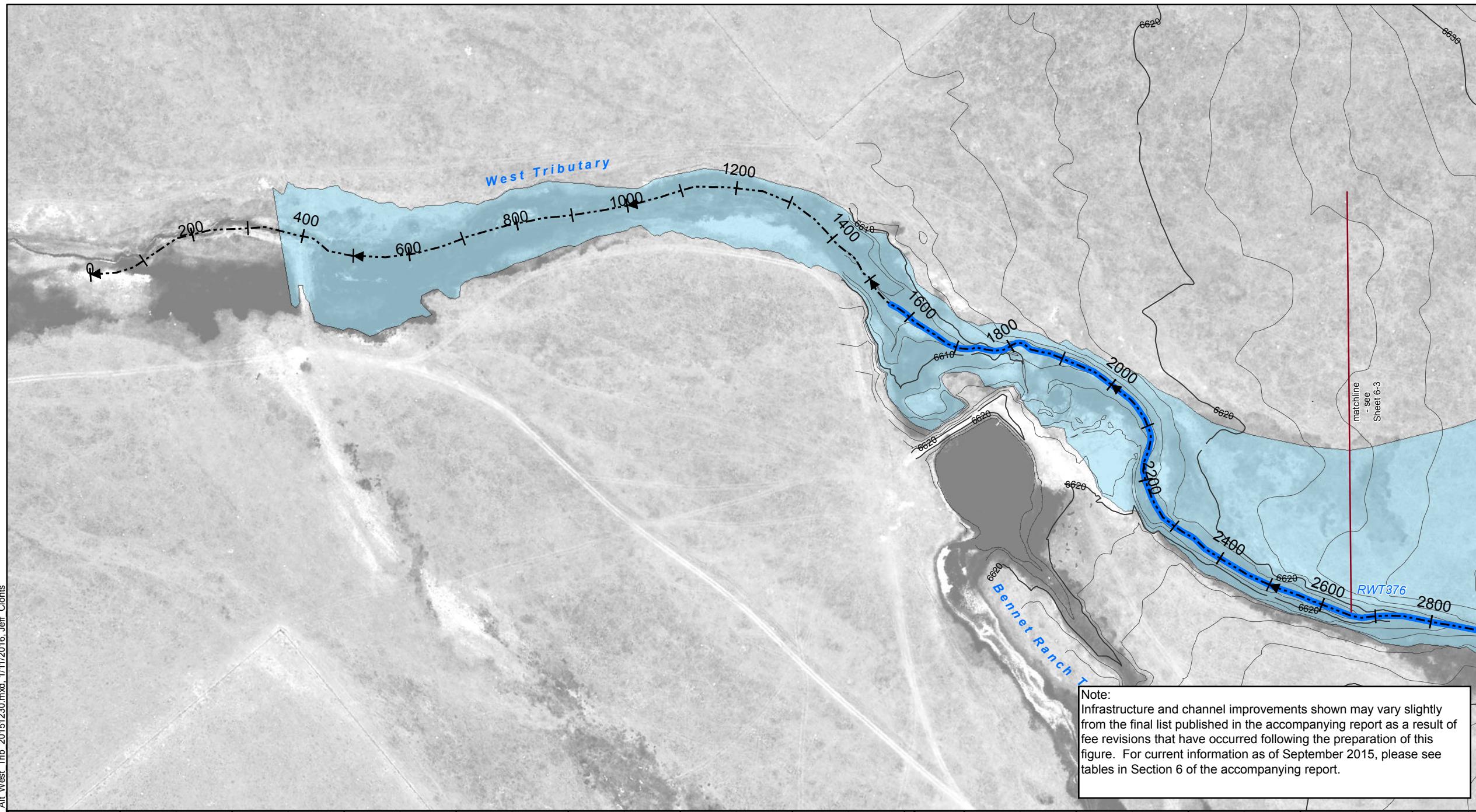
Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)		(ft)	(lb/sq ft)
WestTrib	41256.1*	5-yr		110		7252.48	7254.59	7254.51	7254.96	0.031078	4.85	22.66	24.95	0.9	1.03	1.73
WestTrib	41256.1*	10-yr		170		7252.48	7254.93	7254.84	7255.37	0.030111	5.34	31.81	29.66	0.91	0.97	1.98
WestTrib	41256.1*	25-yr		310		7252.48	7255.49	7255.38	7256.08	0.027826	6.19	50.1	35.3	0.92	0.88	2.42
WestTrib	41256.1*	50-yr		390		7252.48	7255.76	7255.64	7256.42	0.0268	6.51	59.86	37.96	0.91	0.84	2.59
WestTrib	41256.1*	100-yr		480		7252.48	7256.03	7255.9	7256.75	0.02556	6.79	70.73	40.72	0.91	0.8	2.72
WestTrib	41218.78	2-yr		43		7251.27	7252.93	7252.81	7253.17	0.028204	3.93	10.95	15.21	0.82	7.11	1.23
WestTrib	41218.78	5-yr		110		7251.27	7253.6	7253.41	7253.94	0.024178	4.67	23.55	22.58	0.81	6.92	1.53
WestTrib	41218.78	10-yr		170		7251.27	7254.01	7253.79	7254.4	0.022229	5.04	33.71	27.1	0.8	6.81	1.68
WestTrib	41218.78	25-yr		310		7251.27	7254.72	7254.39	7255.2	0.018931	5.57	55.65	34.19	0.77	6.74	1.88
WestTrib	41218.78	50-yr		390		7251.27	7255.07	7254.68	7255.58	0.017152	5.71	68.3	37.55	0.75	6.77	1.9
WestTrib	41218.78	100-yr		480		7251.27	7255.4	7254.95	7255.94	0.016345	5.92	81.03	40.68	0.74	6.81	1.99
WestTrib	40884.05	2-yr		43		7243.77	7245.86	7245.55	7246.07	0.016529	3.67	11.72	11.72	0.65	11.14	0.97
WestTrib	40884.05	5-yr		110		7243.77	7246.66	7246.32	7247.02	0.017885	4.76	23.1	16.63	0.71	11.63	1.46
WestTrib	40884.05	10-yr		170		7243.77	7247.16	7246.78	7247.59	0.018671	5.28	32.19	20.57	0.74	11.91	1.73
WestTrib	40884.05	25-yr	2.26	307.74		7243.77	7247.91	7247.64	7248.47	0.021378	6	53.04	35.48	0.86	12.27	1.91
WestTrib	40884.05	50-yr	5.27	384.73		7243.77	7248.14	7247.99	7248.8	0.024108	6.55	61.86	40.27	0.93	12.36	2.22
WestTrib	40884.05	100-yr	10.2	469.8		7243.77	7248.39	7248.31	7249.13	0.025814	7	72.22	45.26	0.97	12.44	2.48
WestTrib	40418.78	2-yr		43		7233.96	7234.77	7234.73	7234.93	0.037584	3.18	13.53	32.93	0.87	8	0.96
WestTrib	40418.78	5-yr		110		7233.96	7235.11	7235.07	7235.38	0.03719	4.21	26.14	41.38	0.93	7.45	1.46
WestTrib	40418.78	10-yr		170		7233.96	7235.33	7235.29	7235.68	0.037068	4.76	35.7	46.83	0.96	7.06	1.76
WestTrib	40418.78	25-yr		310		7233.96	7235.73	7235.69	7236.2	0.033161	5.45	56.84	55.92	0.95	6.35	2.09
WestTrib	40418.78	50-yr		390		7233.96	7235.94	7235.86	7236.44	0.029161	5.68	68.65	57.65	0.92	6.06	2.16
WestTrib	40418.78	100-yr		480		7233.96	7236.14	7236.04	7236.7	0.027473	5.99	80.07	59.28	0.91	5.86	2.3
WestTrib	40018.78	2-yr		68		7224.51	7226.42	7226.42	7226.93	0.014505	5.73	11.88	12.02	1.02	5.73	0.85
WestTrib	40018.78	5-yr		160		7224.51	7227.23	7227.23	7227.94	0.012809	6.75	23.7	17.07	1.01	5.2	1.06
WestTrib	40018.78	10-yr		250		7224.51	7227.79	7227.79	7228.62	0.011921	7.33	34.13	20.62	1	4.91	1.17
WestTrib	40018.78	25-yr		480		7224.51	7228.78	7228.78	7229.85	0.01089	8.3	57.8	27.05	1	4.64	1.38
WestTrib	40018.78	50-yr		610		7224.51	7229.2	7229.2	7230.39	0.01073	8.76	69.63	29.75	1.01	4.6	1.49
WestTrib	40018.78	100-yr		730		7224.51	7229.56	7229.56	7230.83	0.010388	9.05	80.69	32.06	1.01	4.53	1.56
WestTrib	39618.78	2-yr		68		7216.53	7218.35	7218.32	7218.71	0.013929	4.83	14.09	18.35	0.97	5.62	0.65
WestTrib	39618.78	5-yr		157.41	2.59	7216.53	7218.96	7218.96	7219.43	0.012816	5.55	30.88	35.53	1.04	5.13	0.68
WestTrib	39618.78	10-yr		242.04	7.96	7216.53	7219.33	7219.33	7219.89	0.012185	6.05	45.85	44.33	1.03	4.74	0.77
WestTrib	39618.78	25-yr		452.51	27.49	7216.53	7220	7220	7220.68	0.011744	6.8	81.63	63.07	1.03	3.76	0.93
WestTrib	39618.78	50-yr		570.37	39.63	7216.53	7220.26	7220.26	7221.03	0.011665	7.22	98.92	69.33	1.03	3.74	1.02
WestTrib	39618.78	100-yr	0	678.31	51.69	7216.53	7220.47	7220.47	7221.3	0.011639	7.56	114.04	74.31	1.04	3.66	1.09
WestTrib	39218.78	2-yr		68		7211.07	7212.58	7212.58	7213.09	0.014094	5.71	11.91	11.93	1.01	5.64	0.84

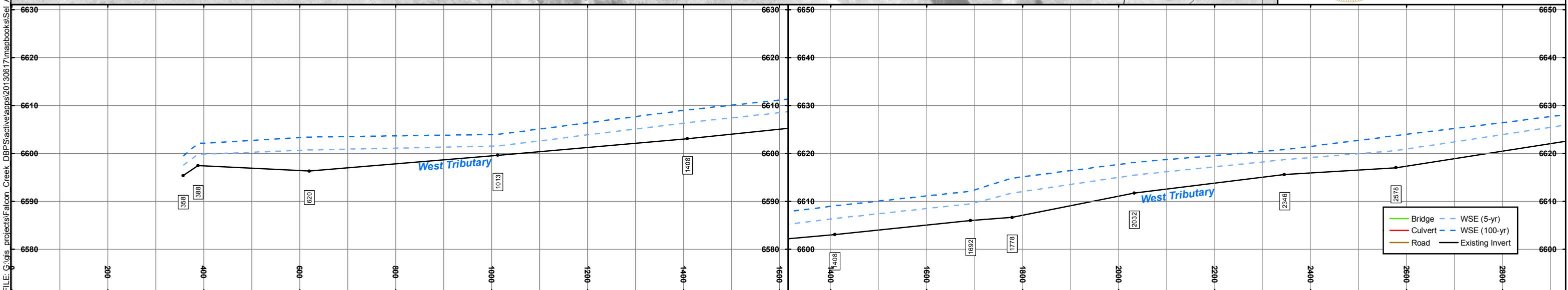
Falcon DBPS
West Tributary Future Conditions HEC-RAS Outputs

Reach	River Sta	Profile	Q Left	Q Channel	Q Right	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # XS	Headloss	Shear Total
			(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	(ft)	(lb/sq ft)	
WestTrib	39218.78	5-yr		160		7211.07	7213.38	7213.38	7214.14	0.01269	6.96	22.99	15.65	1.01	5.01	1.1
WestTrib	39218.78	10-yr		249.73	0.27	7211.07	7213.96	7213.96	7214.86	0.011376	7.64	33.28	22.95	1.12	4.8	0.98
WestTrib	39218.78	25-yr	0.04	449.42	30.54	7211.07	7215.13	7215.13	7216.1	0.007574	8.18	79.08	54.9	1.16	3.72	0.67
WestTrib	39218.78	50-yr	0.35	549.63	60.03	7211.07	7215.49	7215.49	7216.59	0.007548	8.85	99.22	57.07	1.13	3.62	0.8
WestTrib	39218.78	100-yr	1.41	636.39	92.2	7211.07	7215.82	7215.82	7216.99	0.00725	9.28	119.37	67.49	1.15	3.45	0.78
WestTrib	38818.78	2-yr		68		7204.61	7206.1	7206.08	7206.51	0.013993	5.19	13.11	15.16	0.98	4.98	0.73
WestTrib	38818.78	5-yr		160		7204.61	7206.81	7206.78	7207.4	0.012134	6.19	25.86	20.54	0.97	5.12	0.91
WestTrib	38818.78	10-yr		250		7204.61	7207.25	7207.25	7208.01	0.012439	7	35.69	23.94	1.01	5.26	1.11
WestTrib	38818.78	25-yr		480	0	7204.61	7208.19	7208.19	7209.08	0.011531	7.56	63.45	36.1	1.01	4.75	1.22
WestTrib	38818.78	50-yr		609.87	0.13	7204.61	7208.51	7208.51	7209.53	0.0109	8.14	75.15	37.75	1.02	4.42	1.3
WestTrib	38818.78	100-yr	0.06	729.33	0.62	7204.61	7208.77	7208.77	7209.92	0.010415	8.62	85.4	39.52	1.03	4.2	1.35
WestTrib	38418.78	2-yr		68		7200.04	7201.24	7201.15	7201.54	0.010999	4.41	15.42	19.41	0.87	4.95	0.54
WestTrib	38418.78	5-yr		160		7200.04	7201.78	7201.78	7202.29	0.013386	5.71	28.01	27.76	1	5.08	0.83
WestTrib	38418.78	10-yr		250		7200.04	7202.22	7202.22	7202.75	0.013561	5.81	42.99	42.06	1.01	4.81	0.86
WestTrib	38418.78	25-yr	0.03	479.31	0.66	7200.04	7202.82	7202.82	7203.49	0.011913	6.6	74.06	65.2	1.09	4.26	0.84
WestTrib	38418.78	50-yr	0.23	605.11	4.66	7200.04	7203.07	7203.07	7203.83	0.010814	7.03	91.67	72.27	1.1	3.93	0.85
WestTrib	38418.78	100-yr	0.62	718.74	10.64	7200.04	7203.28	7203.28	7204.11	0.010119	7.39	107.06	73.67	1.07	3.78	0.91
WestTrib	38018.78	2-yr	1.08	66.1	0.82	7195.31	7196.32	7196.31	7196.6	0.013949	4.27	17.98	37	1.06	5.53	0.42
WestTrib	38018.78	5-yr	7.68	147.86	4.46	7195.31	7196.76	7196.76	7197.21	0.011998	5.63	36.9	50.08	1.11	5.11	0.55
WestTrib	38018.78	10-yr	18.44	221.67	9.89	7195.31	7197.09	7197.09	7197.66	0.010713	6.4	55.48	59.76	1.11	4.67	0.62
WestTrib	38018.78	25-yr	56.92	394.13	28.95	7195.31	7197.74	7197.74	7198.52	0.009554	7.78	99.55	76.08	1.09	4.36	0.78
WestTrib	38018.78	50-yr	83.58	484.01	42.42	7195.31	7198.05	7198.05	7198.91	0.008932	8.28	124.63	83.23	1.07	4.12	0.83
WestTrib	38018.78	100-yr	112.2	564.14	53.62	7195.31	7198.29	7198.29	7199.23	0.008819	8.77	144.85	87.48	1.06	4.07	0.91
WestTrib	37618.78	2-yr		68		7190.23	7190.9	7190.86	7191.08	0.013536	3.32	20.46	46.67	0.88	4.53	0.37
WestTrib	37618.78	5-yr		157.66	2.34	7190.23	7191.21	7191.21	7191.51	0.013404	4.46	39.63	84.38	1.14		0.39
WestTrib	37618.78	10-yr		237.96	12.04	7190.23	7191.43	7191.43	7191.81	0.012448	5.03	59.15	88.67	1.06	3.84	0.52
WestTrib	37618.78	25-yr	0.03	437.11	42.87	7190.23	7191.84	7191.84	7192.39	0.012103	6.21	96.52	94.79	1.04	4.39	0.77
WestTrib	37618.78	50-yr	0.25	548	61.75	7190.23	7192.03	7192.03	7192.67	0.011588	6.71	115.24	96.86	1.03	4.42	0.86
WestTrib	37618.78	100-yr	0.65	649.82	79.52	7190.23	7192.19	7192.19	7192.91	0.011465	7.16	130.6	98.54	1.04	4.52	0.95
WestTrib	37218.78	2-yr	0.1	58.65	9.25	7184.96	7186.34	7186.28	7186.55	0.009589	3.89	27.68	70.37	1.02	3.49	0.23
WestTrib	37218.78	5-yr	0.87	118.97	40.17	7184.96	7186.73	7186.7	7187.04	0.009492	5.15	65.65	130.11	1.11	3.56	0.3
WestTrib	37218.78	10-yr	1.99	157.16	90.85	7184.96	7187.03	7187.03	7187.32	0.007525	5.37	117.02	185.32	0.95	3.21	0.3
WestTrib	37218.78	25-yr	4.72	251.14	224.14	7184.96	7187.35	7187.35	7187.77	0.009817	7.01	176.27	189.2	0.95	3.13	0.57
WestTrib	37218.78	50-yr	6.56	297.87	305.57	7184.96	7187.51	7187.51	7187.97	0.010296	7.61	206.63	191.16	0.93	3.21	0.69
WestTrib	37218.78	100-yr	8.38	340.39	381.23	7184.96	7187.63	7187.63	7188.15	0.010866	8.16	230.62	192.7	0.93	3.3	0.81
WestTrib	36914.66	2-yr		48.87	19.13	7182.01	7182.91	7182.83	7183.05	0.013791	3.34	29.06	65.23	0.77	6.3	0.38

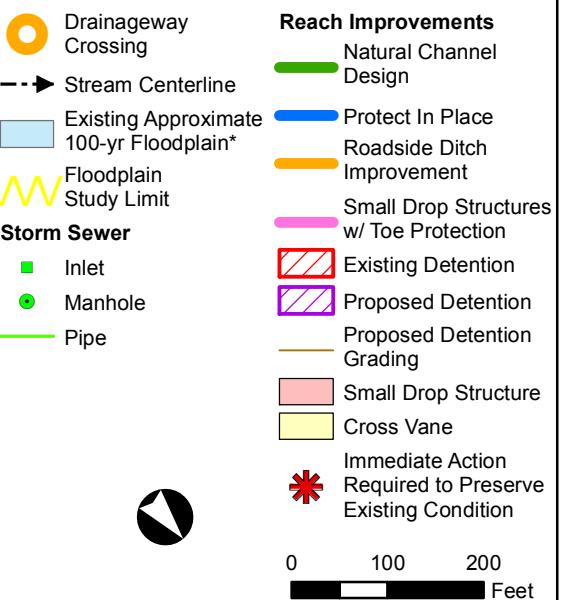
Sheet 6-2
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



Matrix
DESIGN GROUP

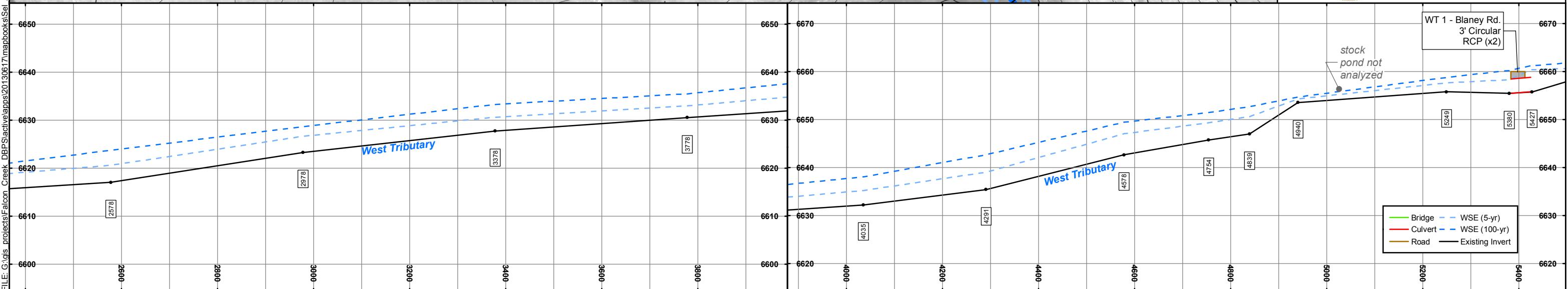
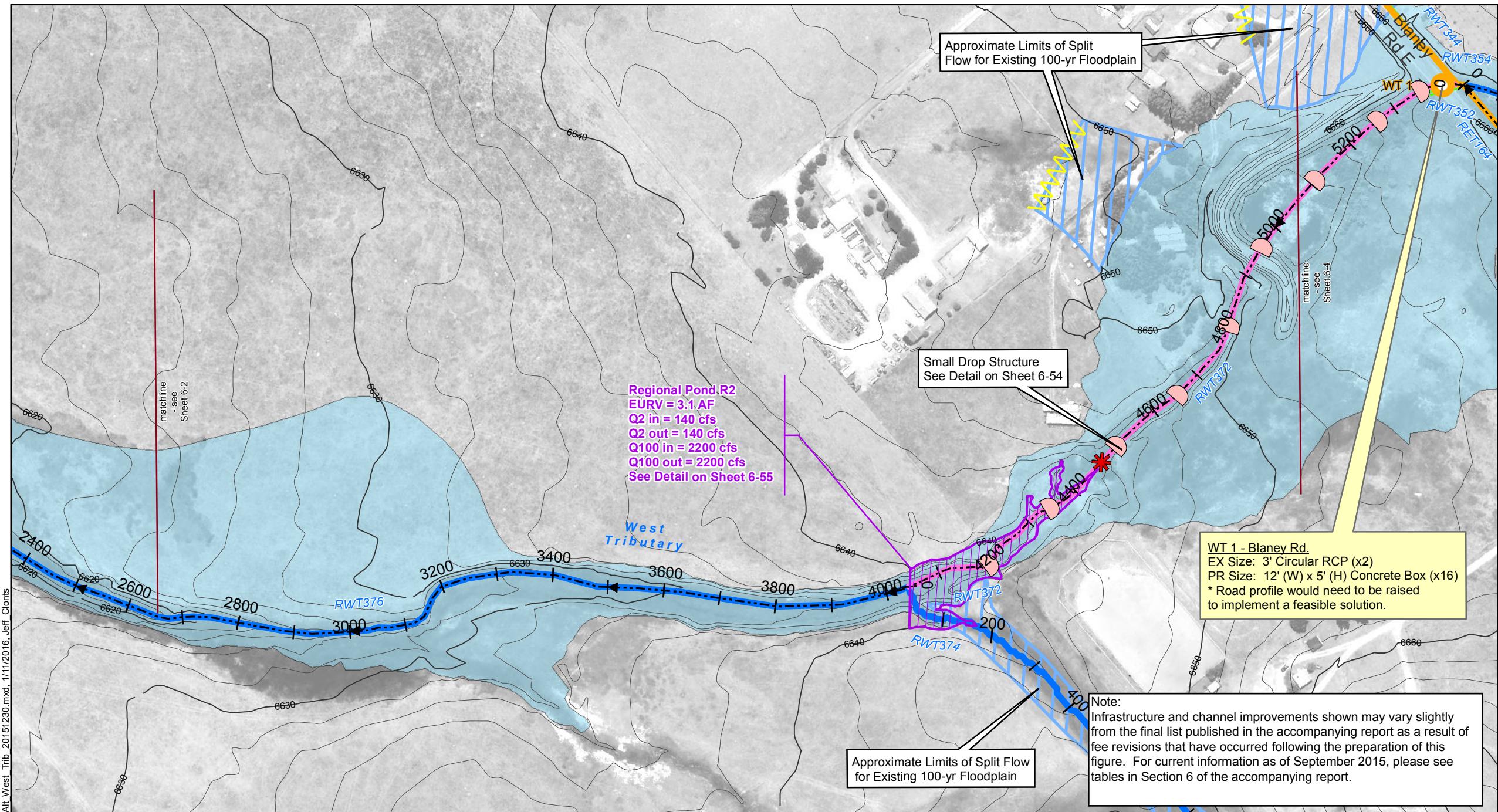


Sheet 6-3
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

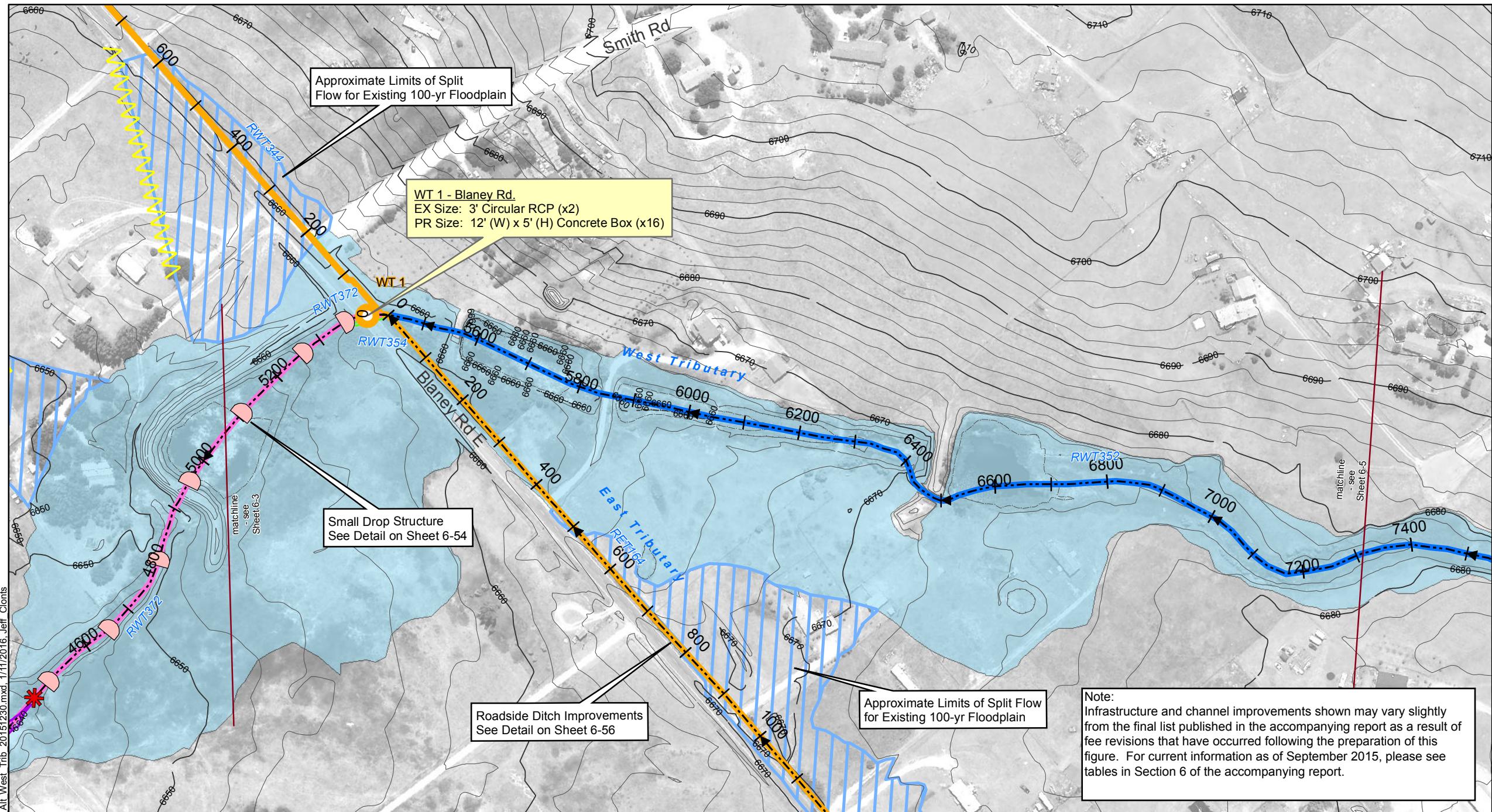


* These approximate 100-yr floodplain boundaries are for planning purposes only. This information is not intended to replace the information provided on the FEMA Flood Insurance Rate Maps for this area.

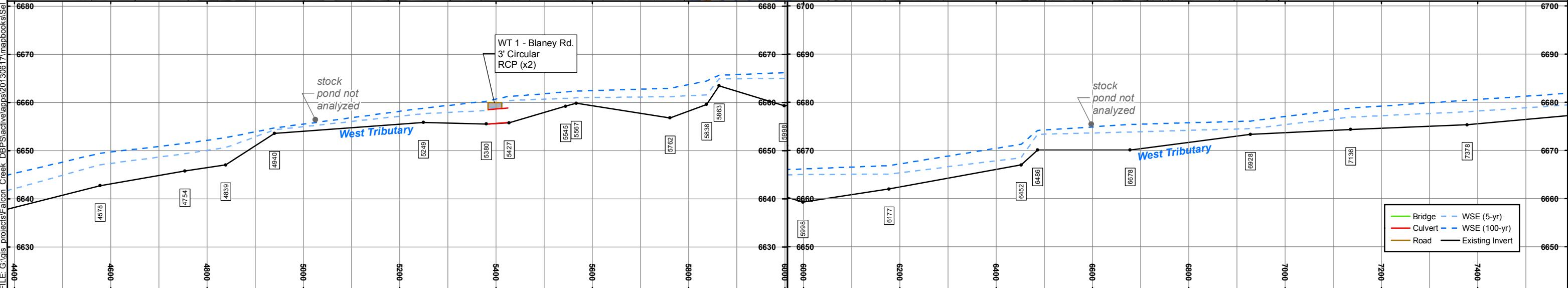
** These are conceptual design drawings and are subject to change. These drawings are not intended for construction purposes.



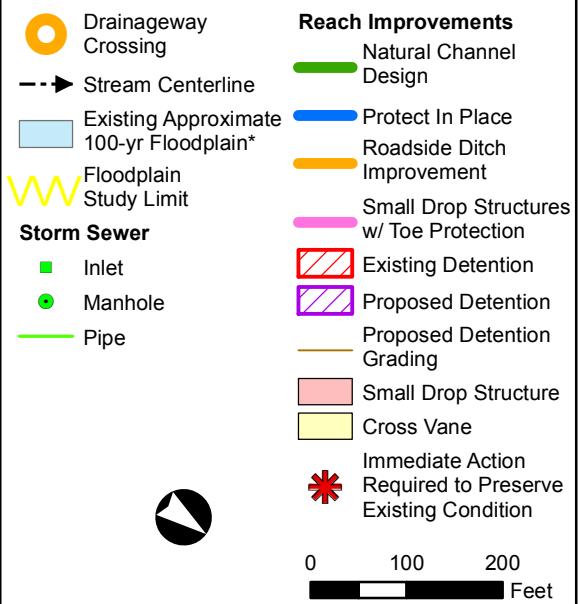
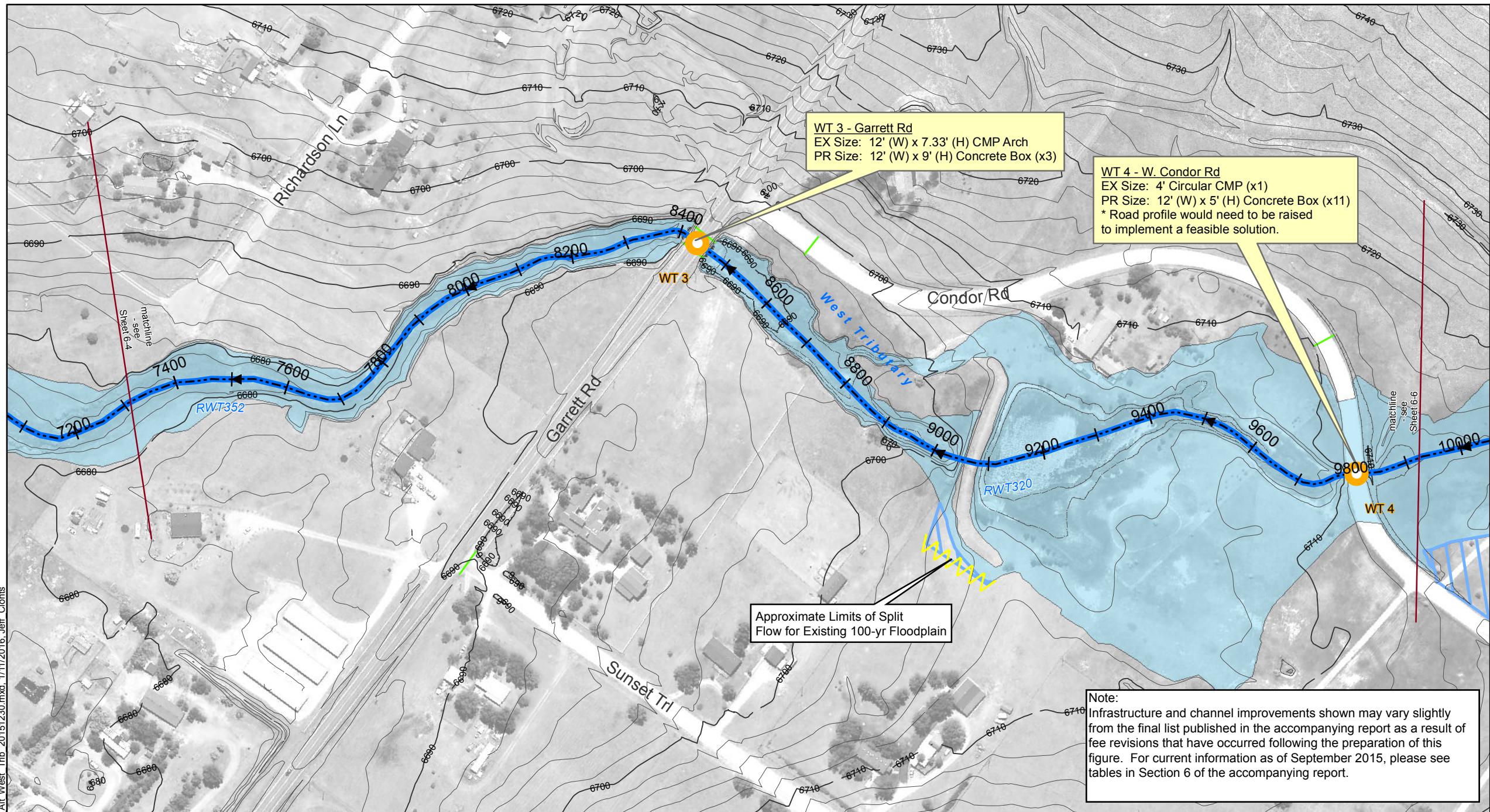
Sheet 6-4
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



Matrix
DESIGN GROUP



Sheet 6-5
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

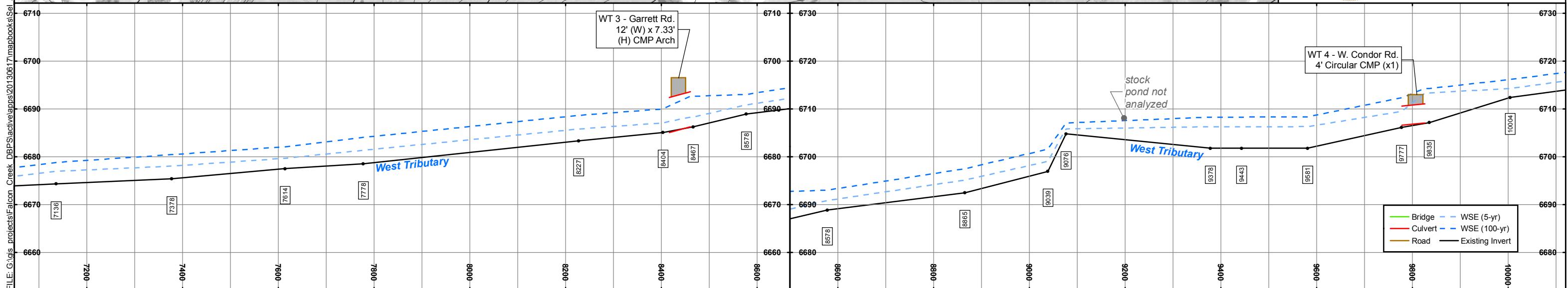


* These approximate 100-yr floodplain boundaries are for planning purposes only. This information is not intended to replace the information provided on the FEMA Flood Insurance Rate Maps for this area.

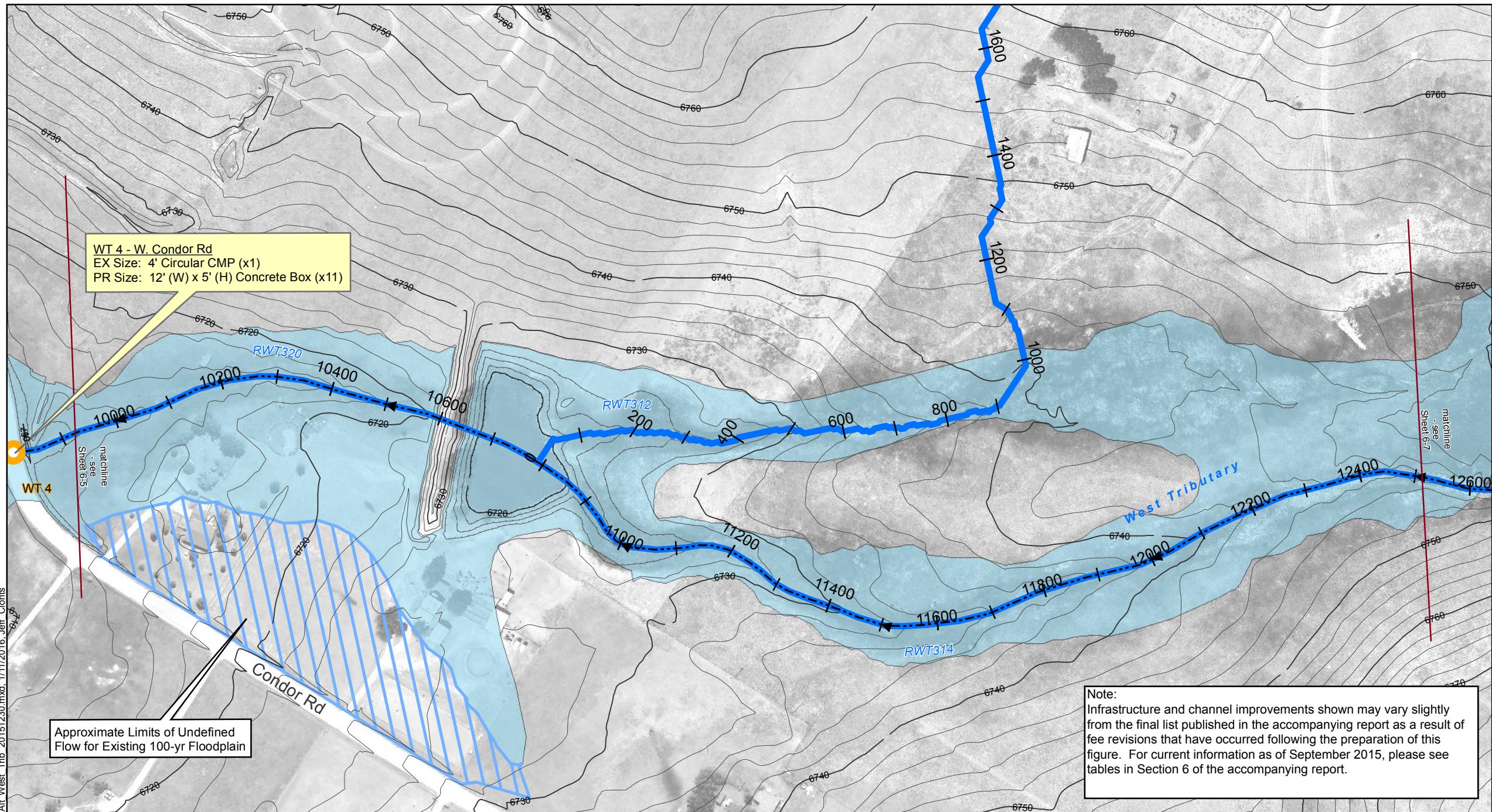
** These are conceptual design drawings and are subject to change. These drawings are not intended for construction purposes.



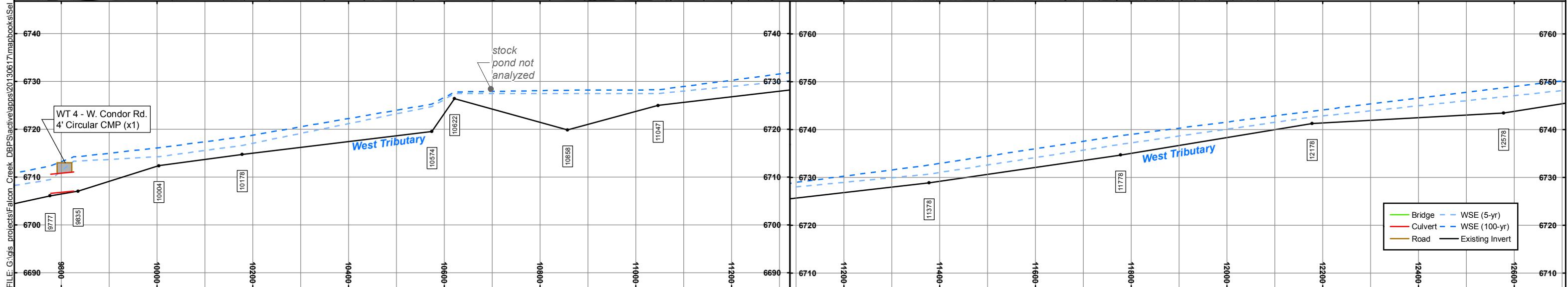
Matrix
DESIGN GROUP



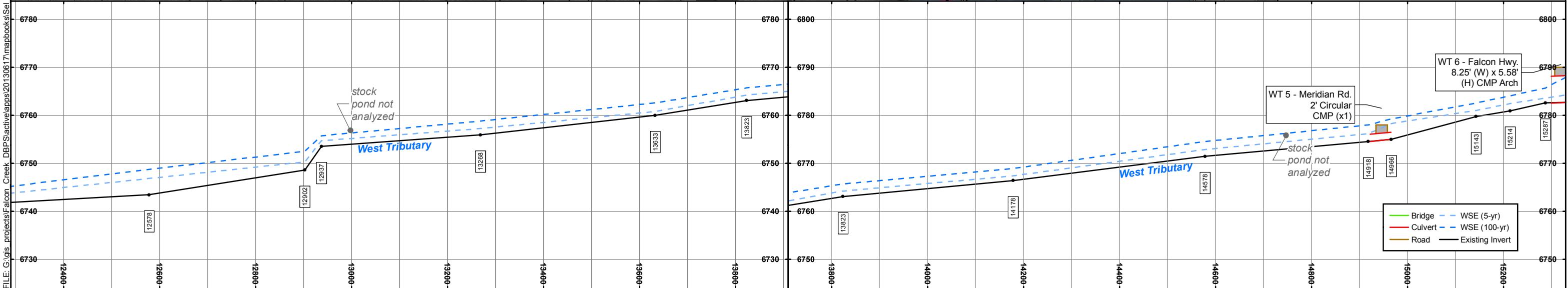
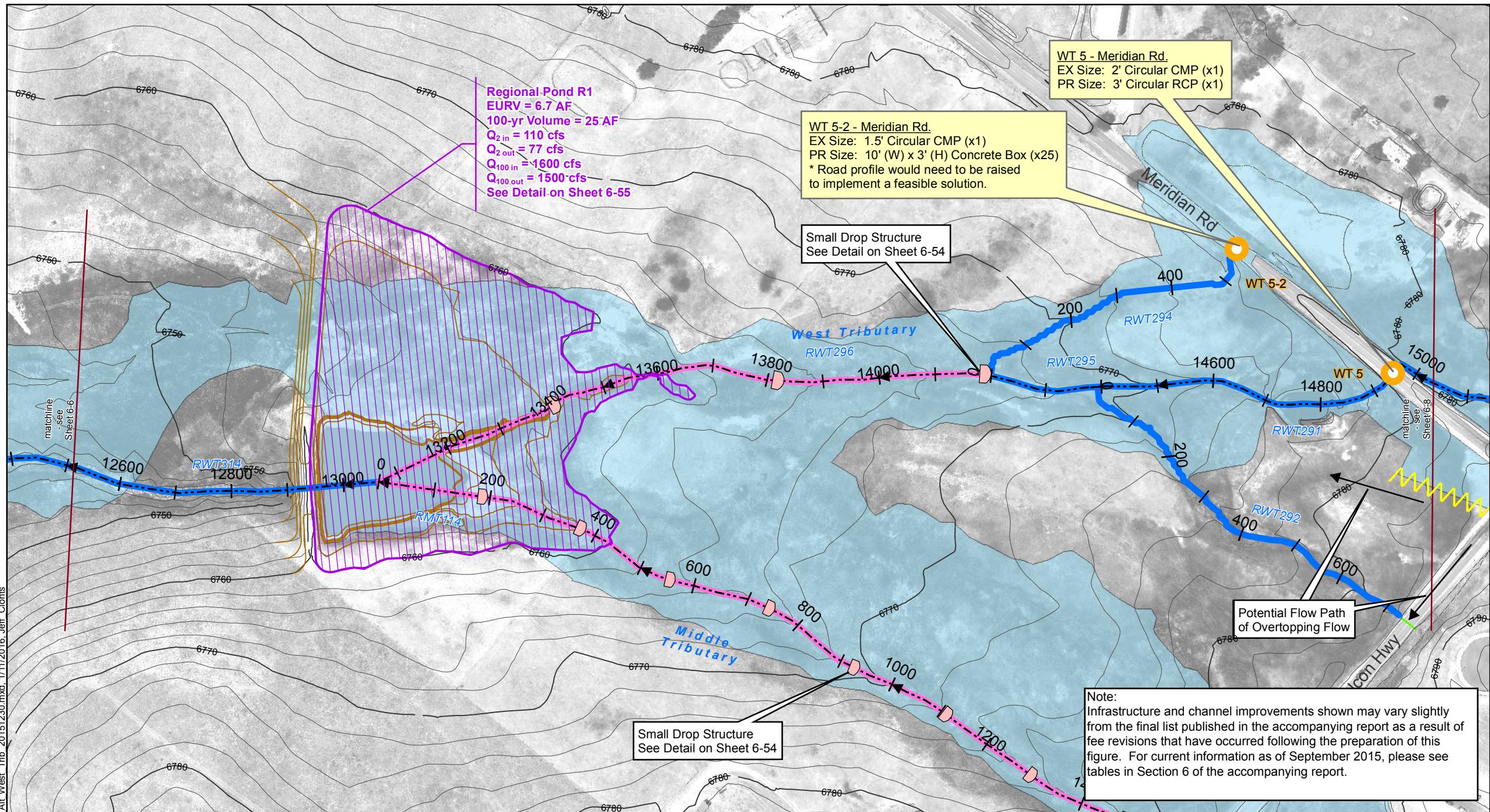
Sheet 6-6
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



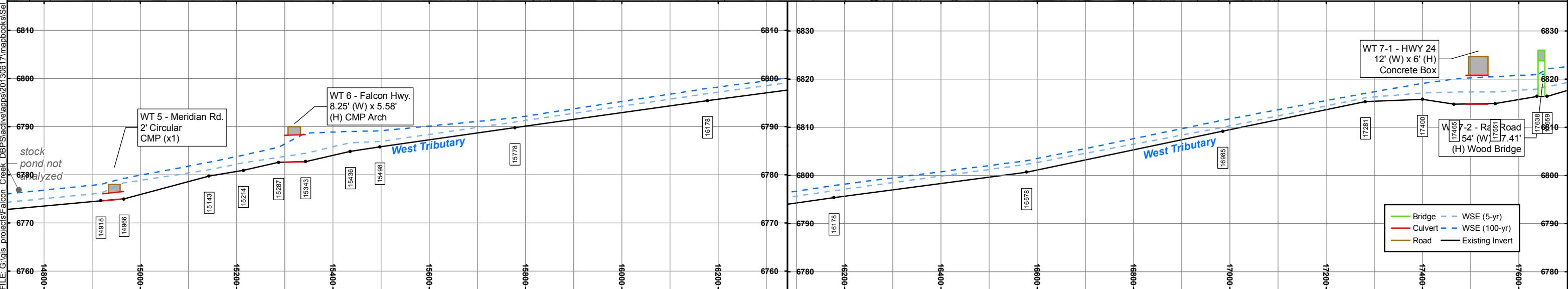
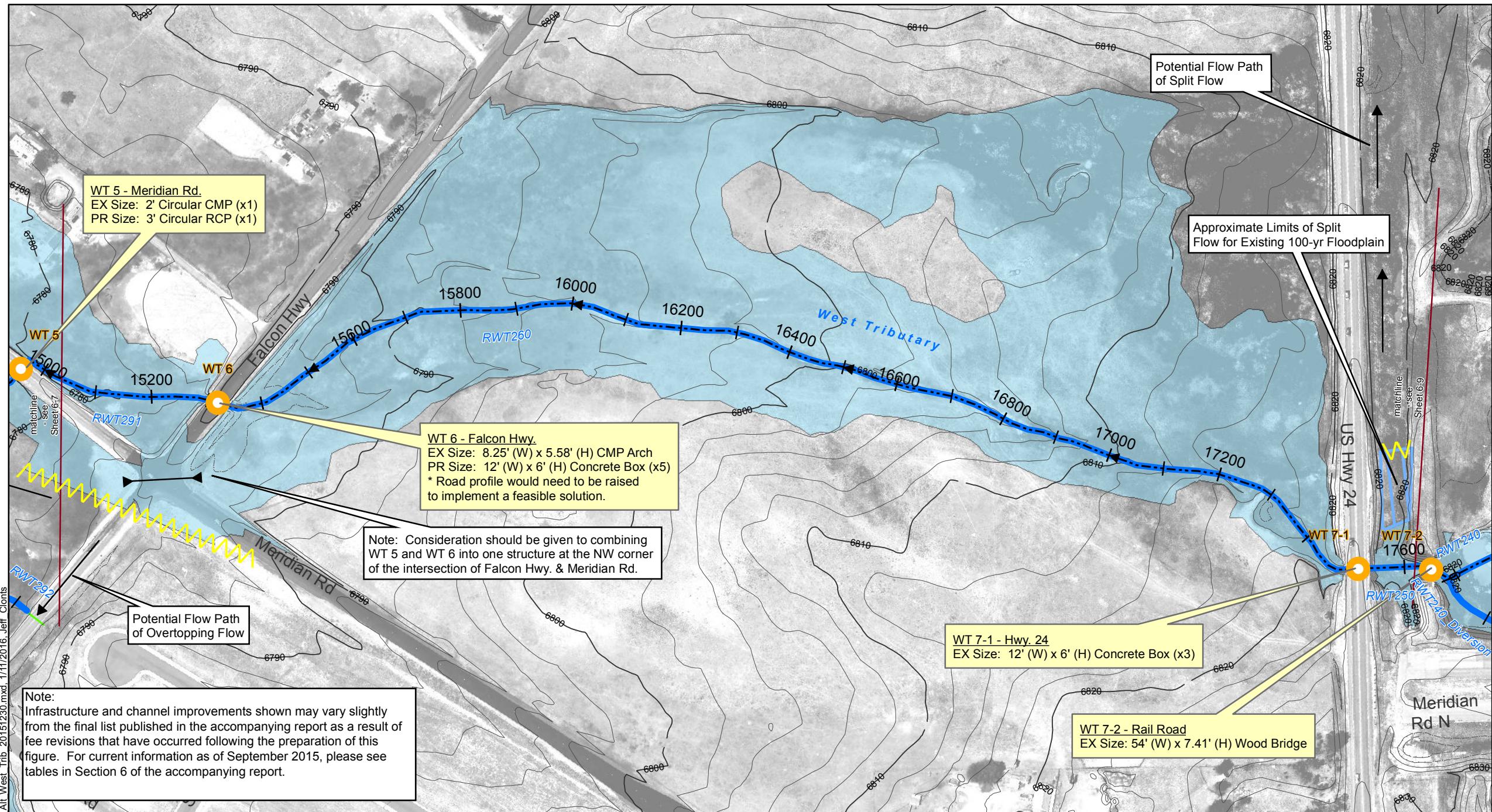
Matrix
DESIGN GROUP



Sheet 6-7
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

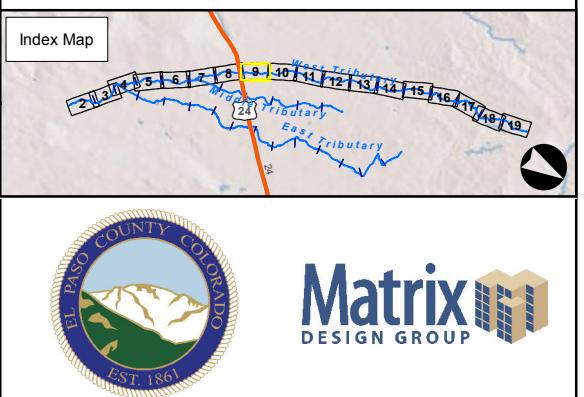
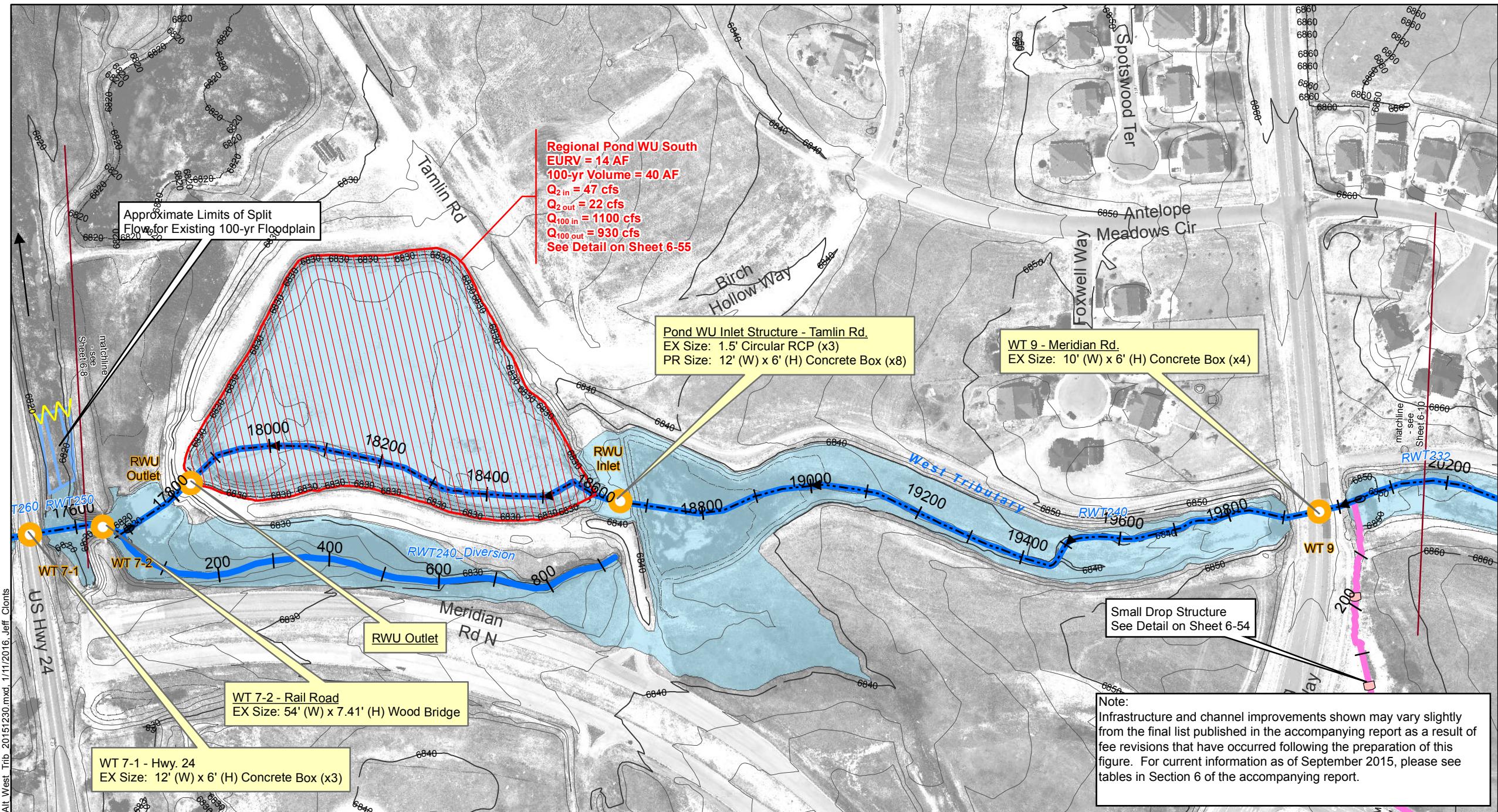
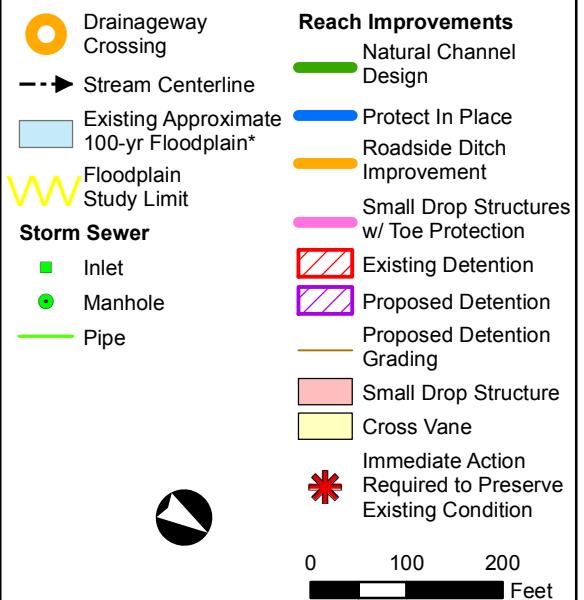


Sheet 6-8
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

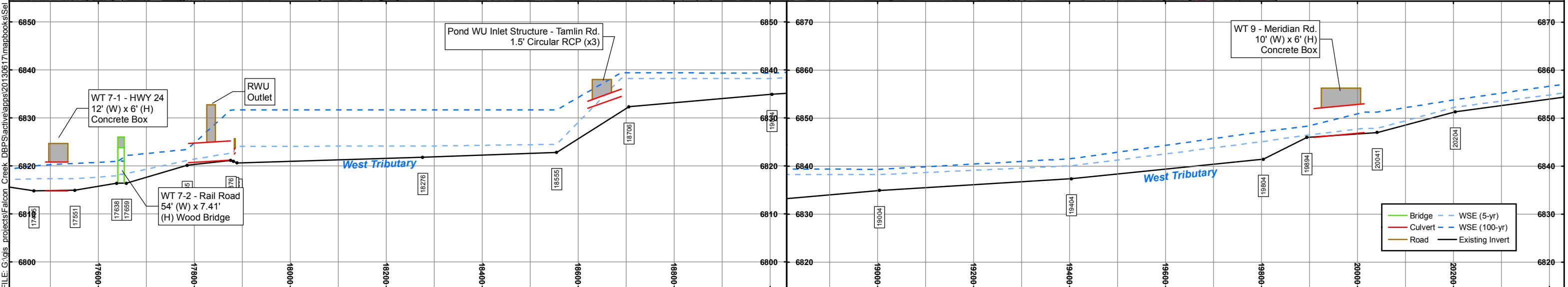


Matrix
 DESIGN GROUP

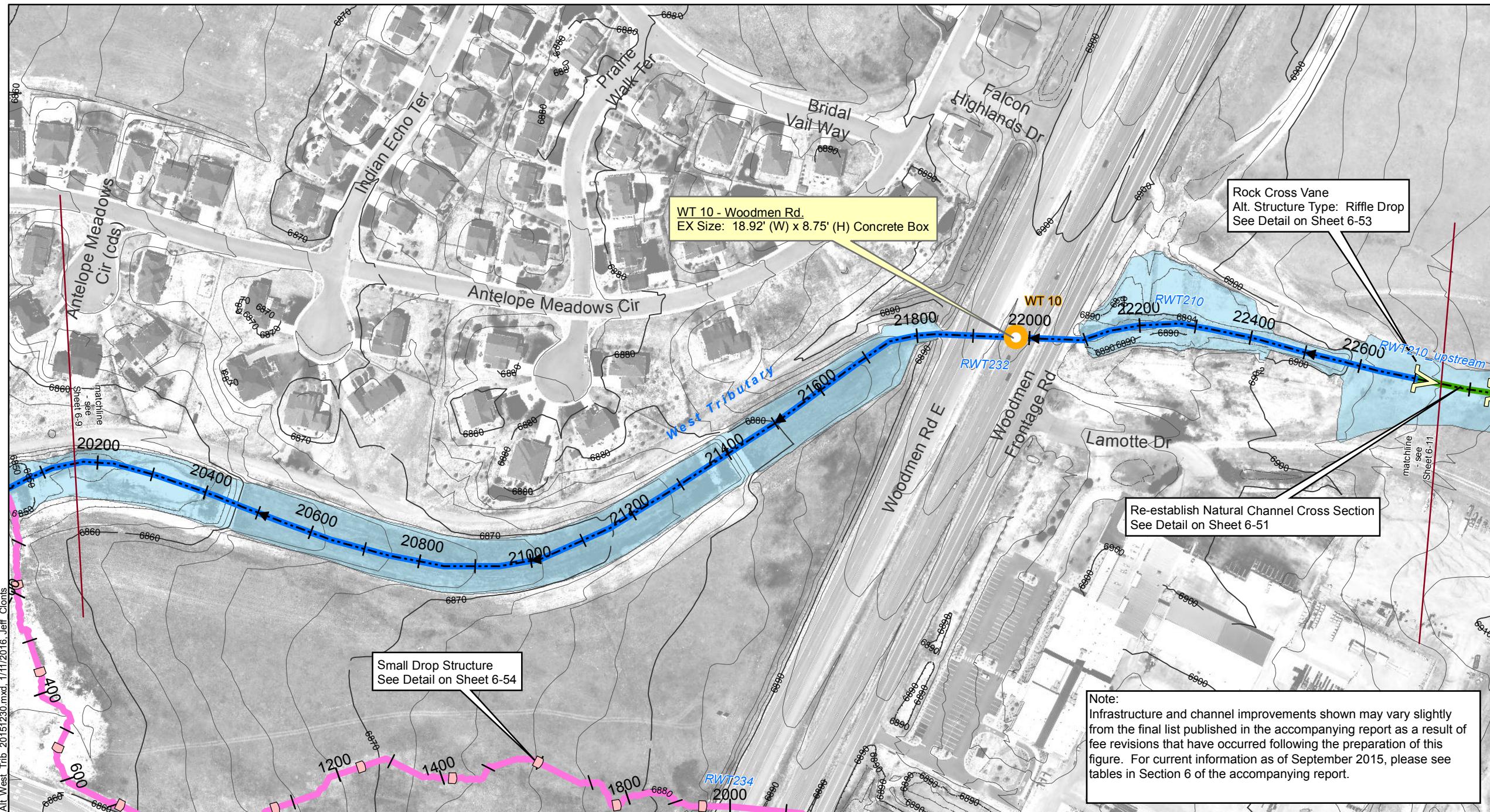
Sheet 6-9
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



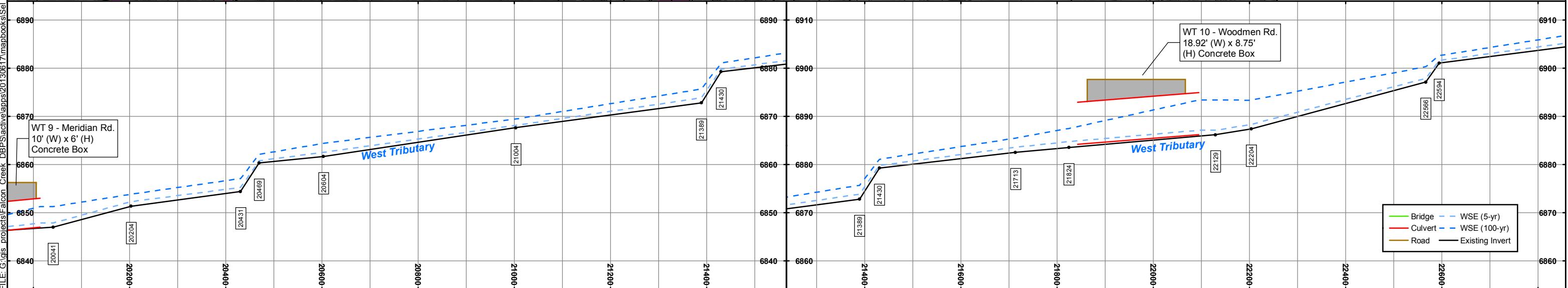
Matrix
DESIGN GROUP



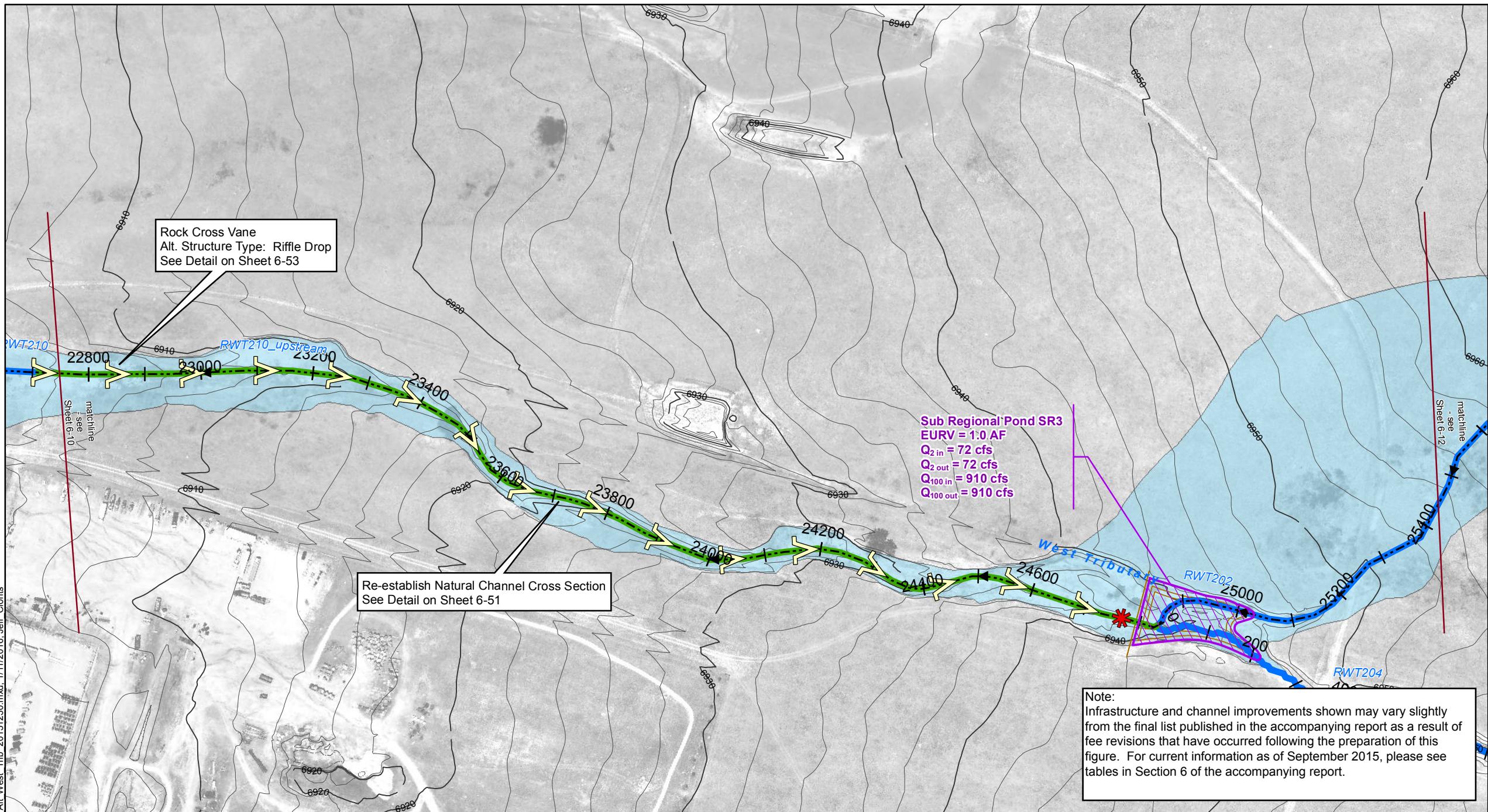
Sheet 6-10
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



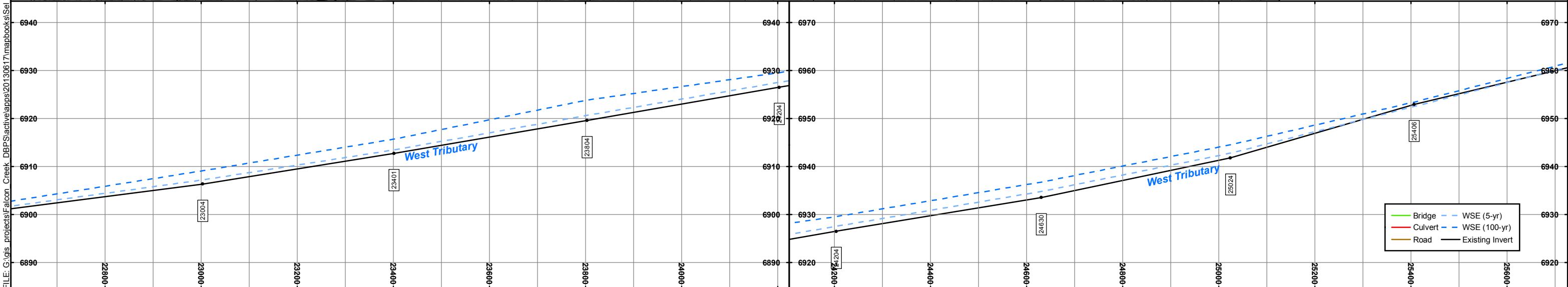
Matrix
DESIGN GROUP



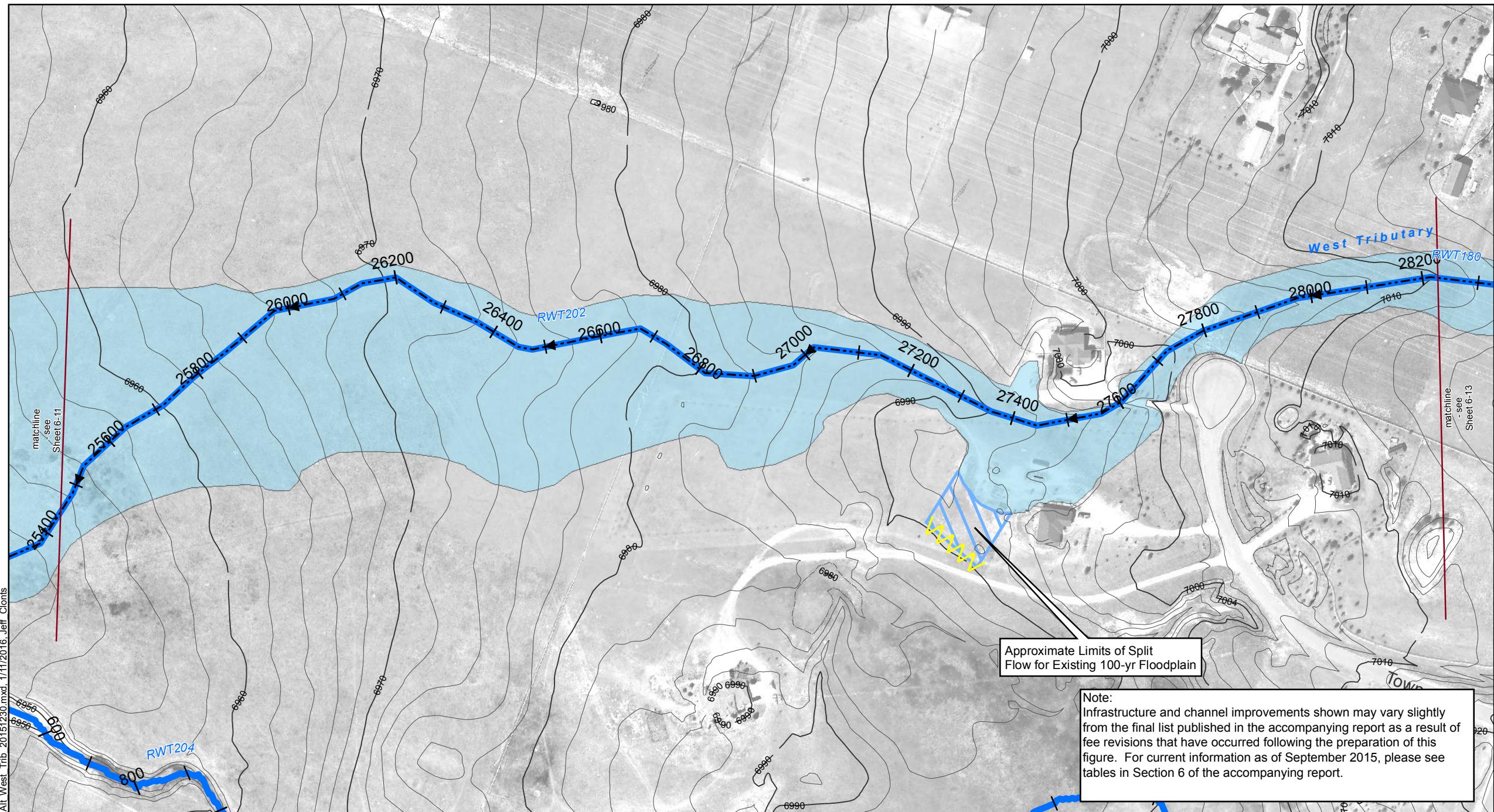
Sheet 6-11
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



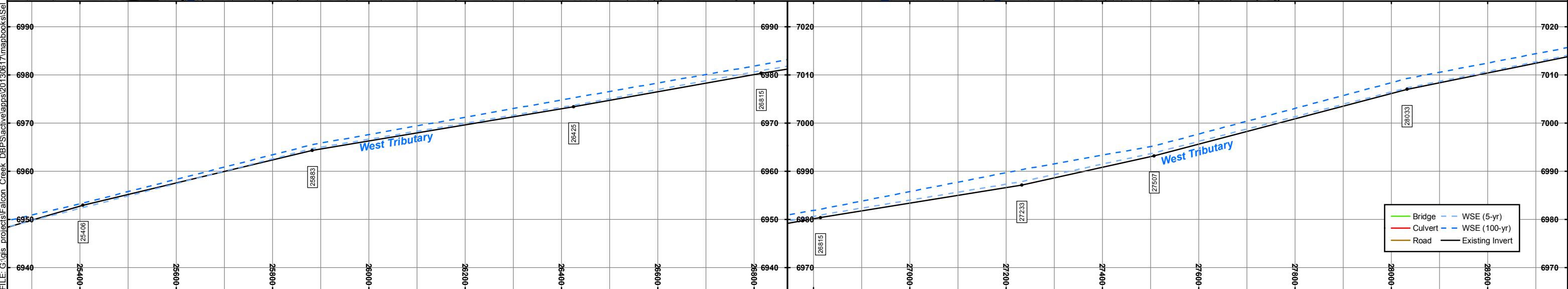
Matrix
DESIGN GROUP



Sheet 6-12
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



Matrix
DESIGN GROUP



Sheet 6-13
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

- Drainageway Crossing
- Stream Centerline
- Existing Approximate 100-yr Floodplain*
- Wavy Line Floodplain Study Limit
- Storm Sewer
 - Inlet
 - Manhole
 - Pipe

0 100 200
Feet

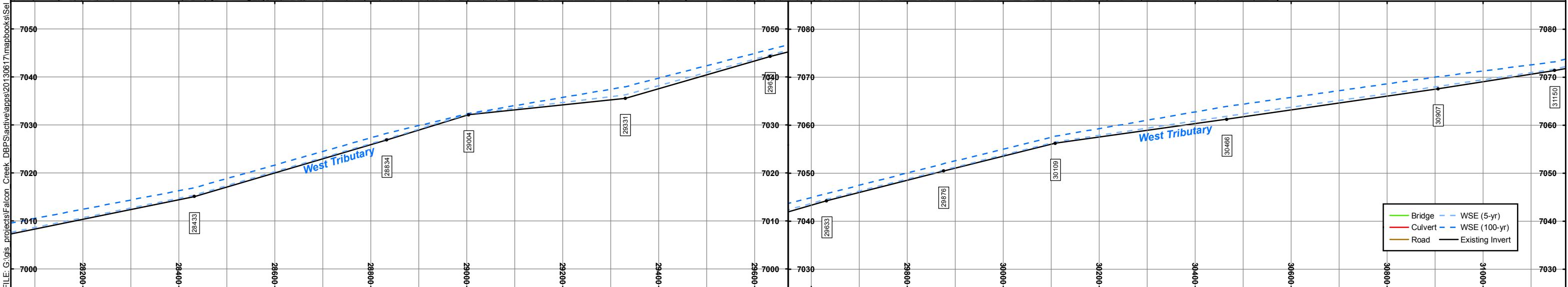
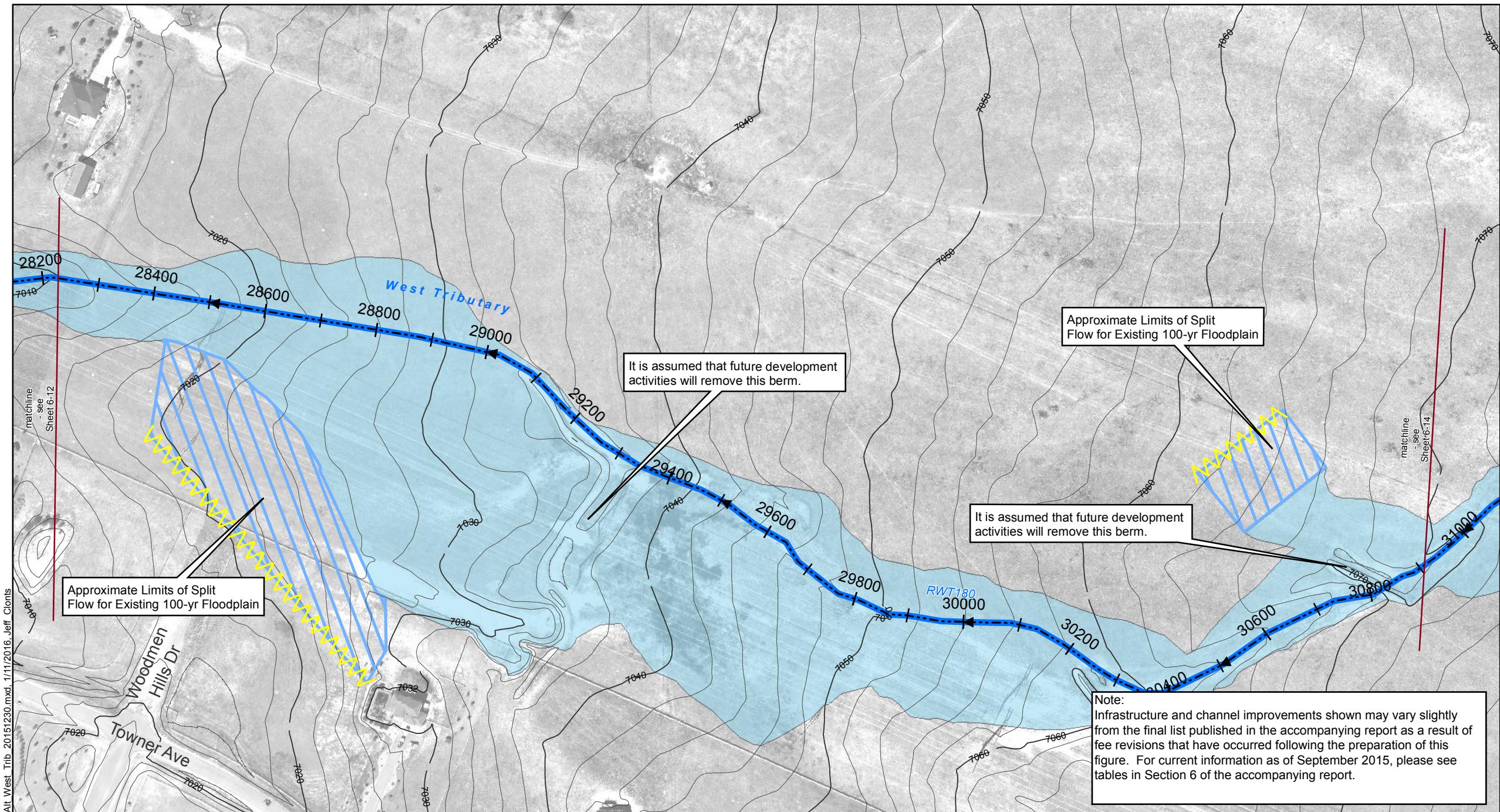
* These approximate 100-yr floodplain boundaries are for planning purposes only. This information is not intended to replace the information provided on the FEMA Flood Insurance Rate Maps for this area.

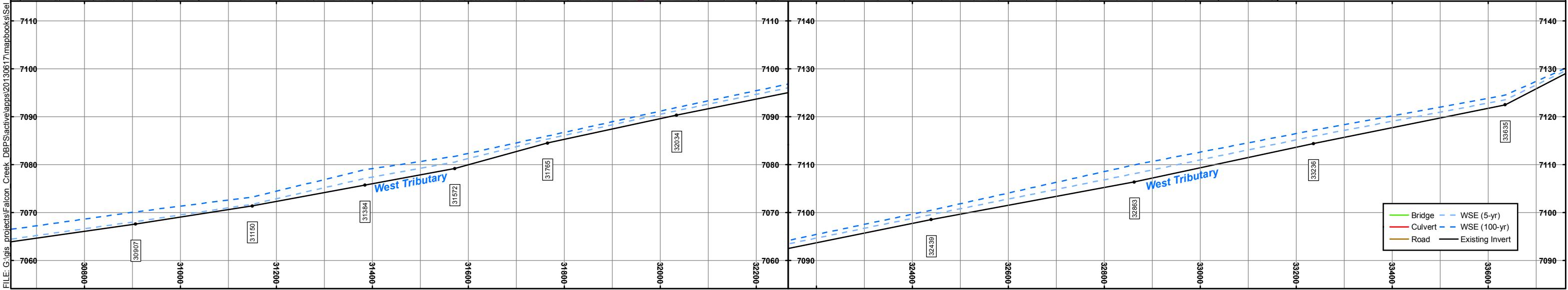
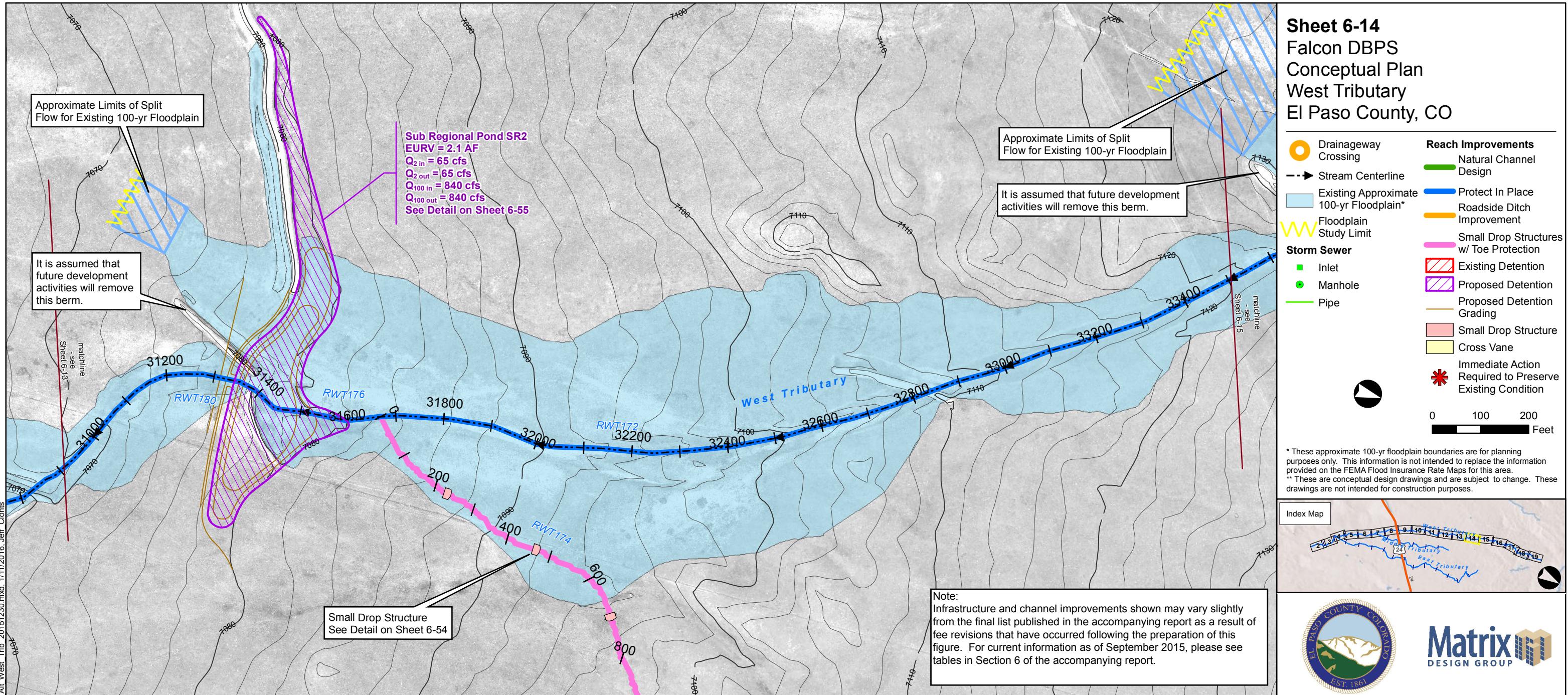
** These are conceptual design drawings and are subject to change. These drawings are not intended for construction purposes.

Index Map

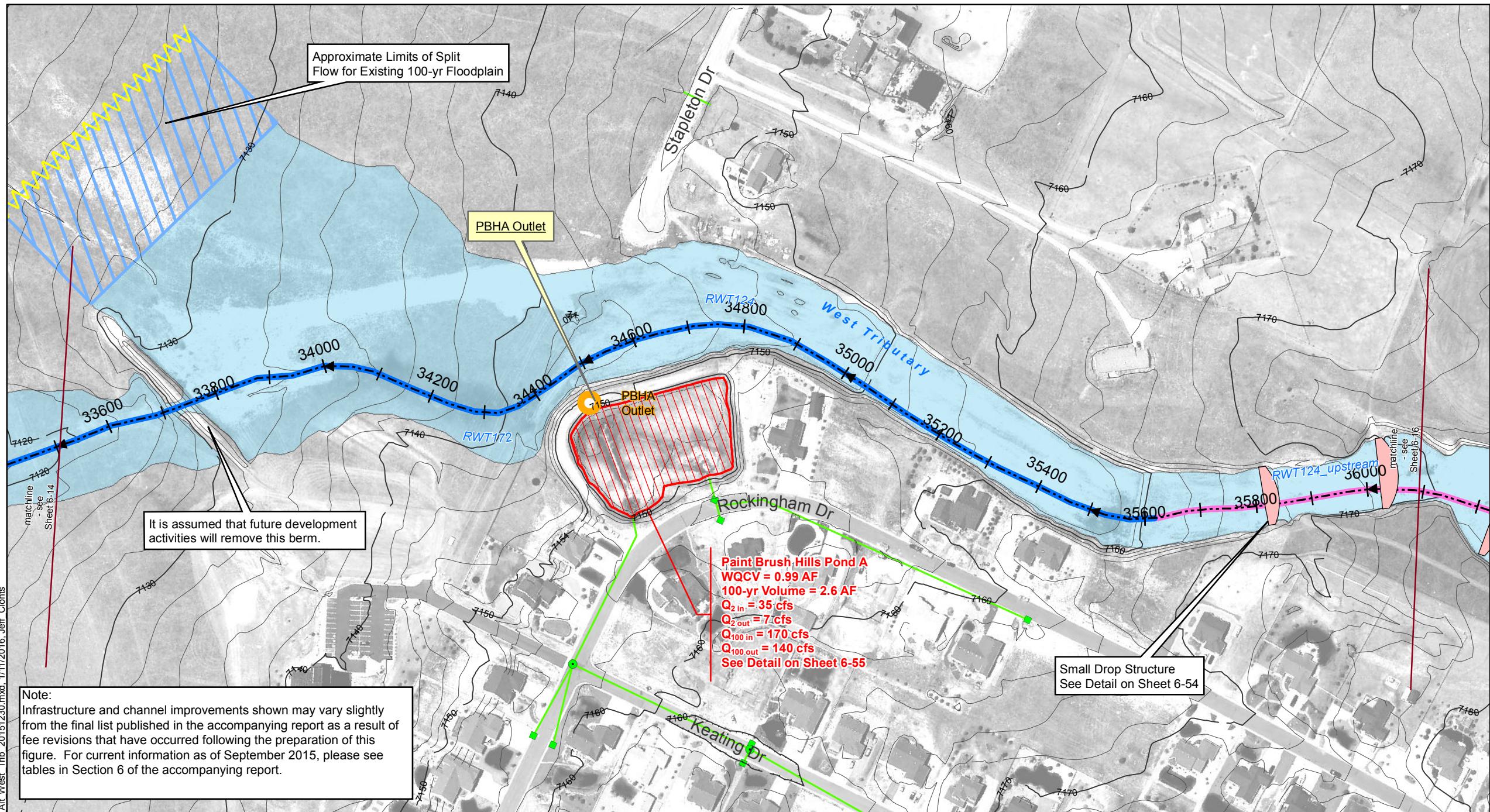


Matrix
DESIGN GROUP

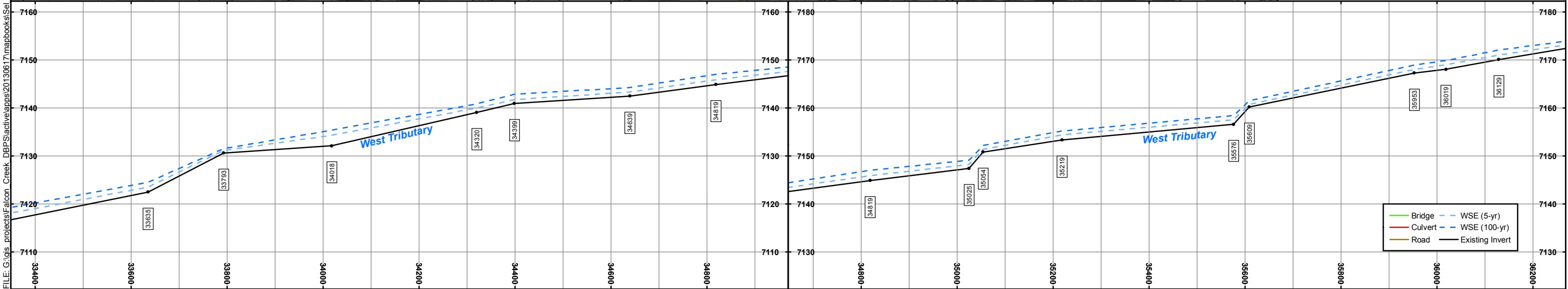




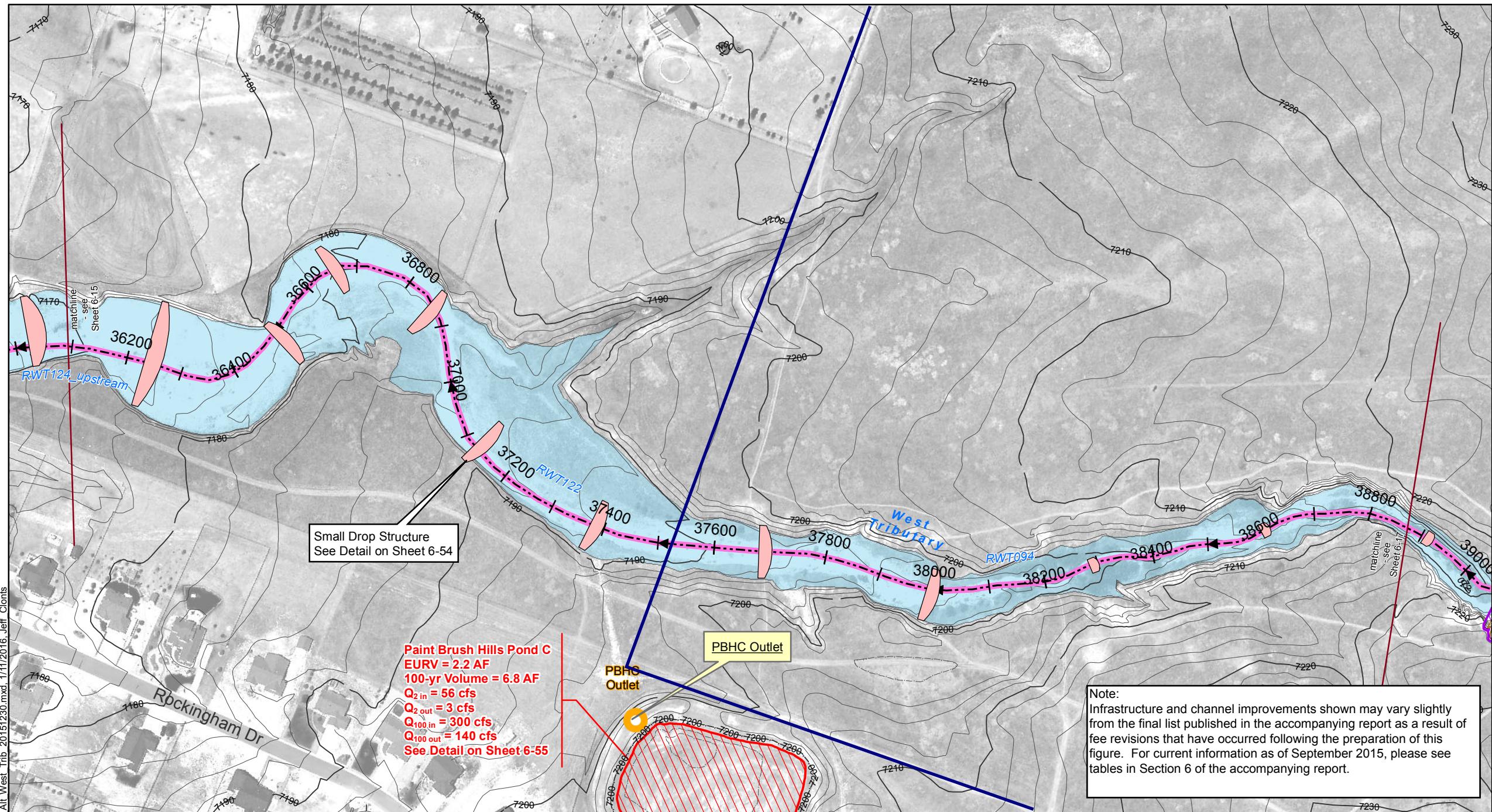
Sheet 6-15
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



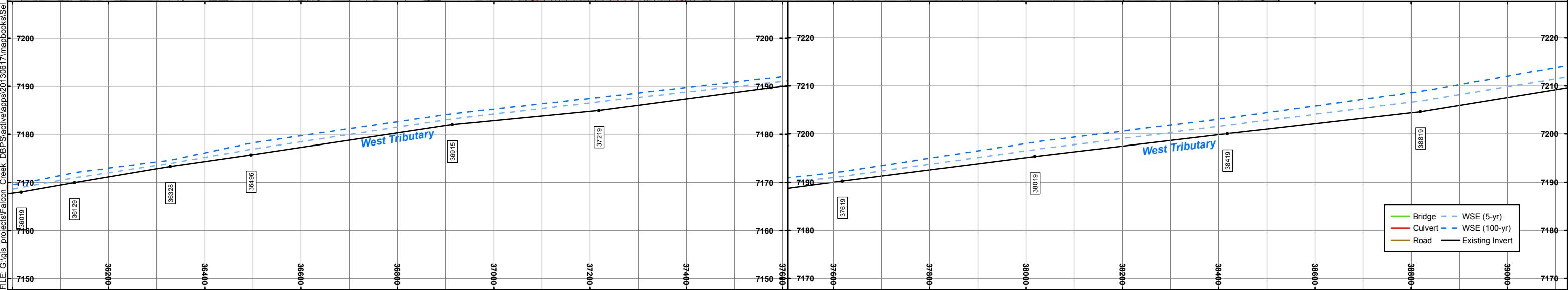
Matrix
 DESIGN GROUP



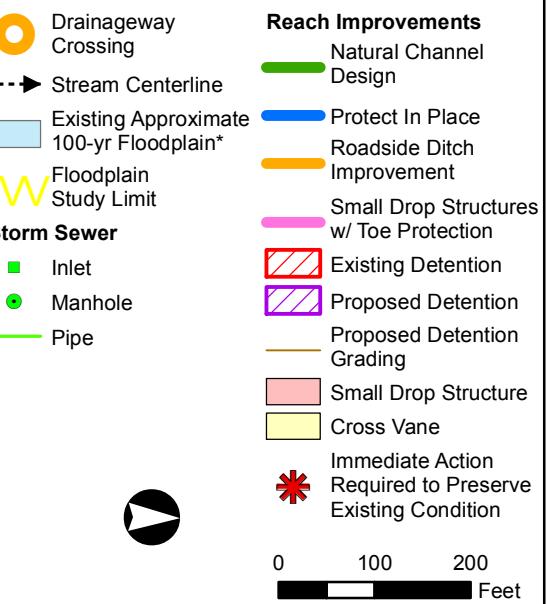
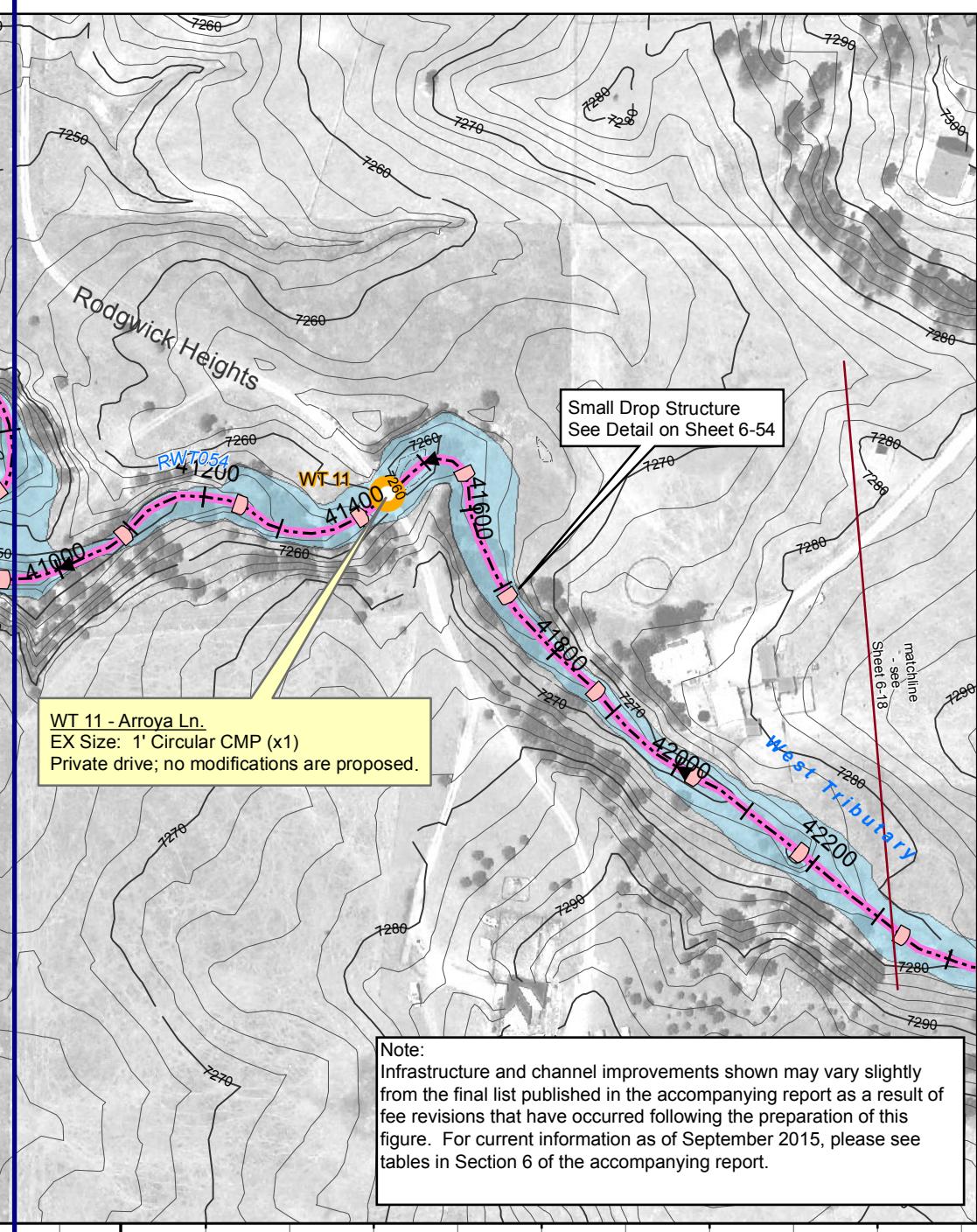
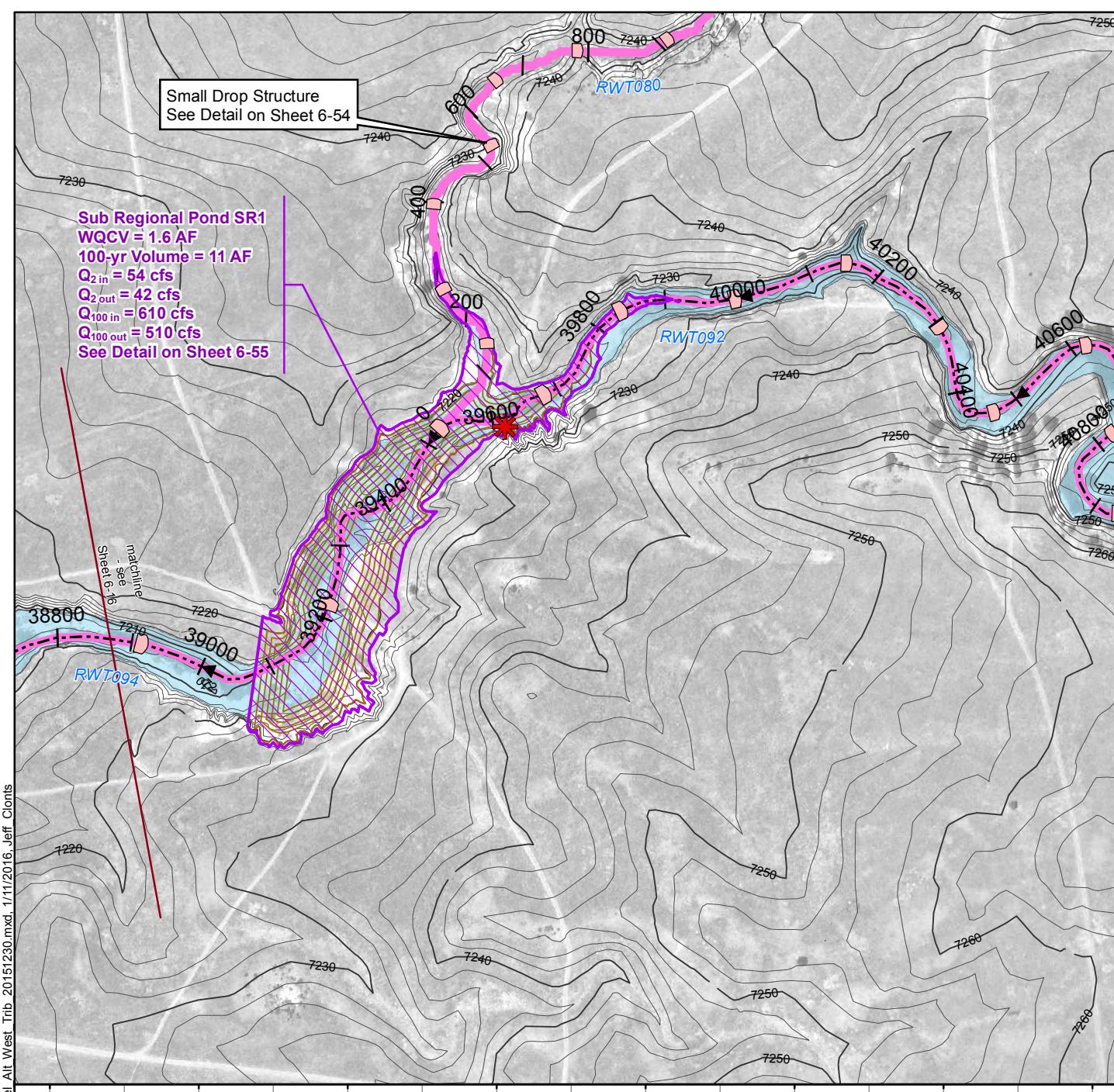
Sheet 6-16
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



Matrix
DESIGN GROUP



Sheet 6-17
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO

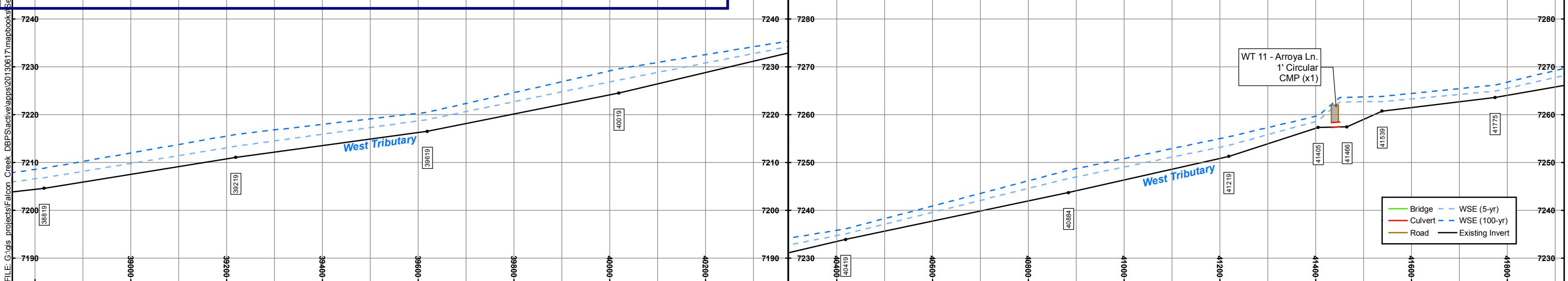


* These approximate 100-yr floodplain boundaries are for planning purposes only. This information is not intended to replace the information provided on the FEMA Flood Insurance Rate Maps for this area.

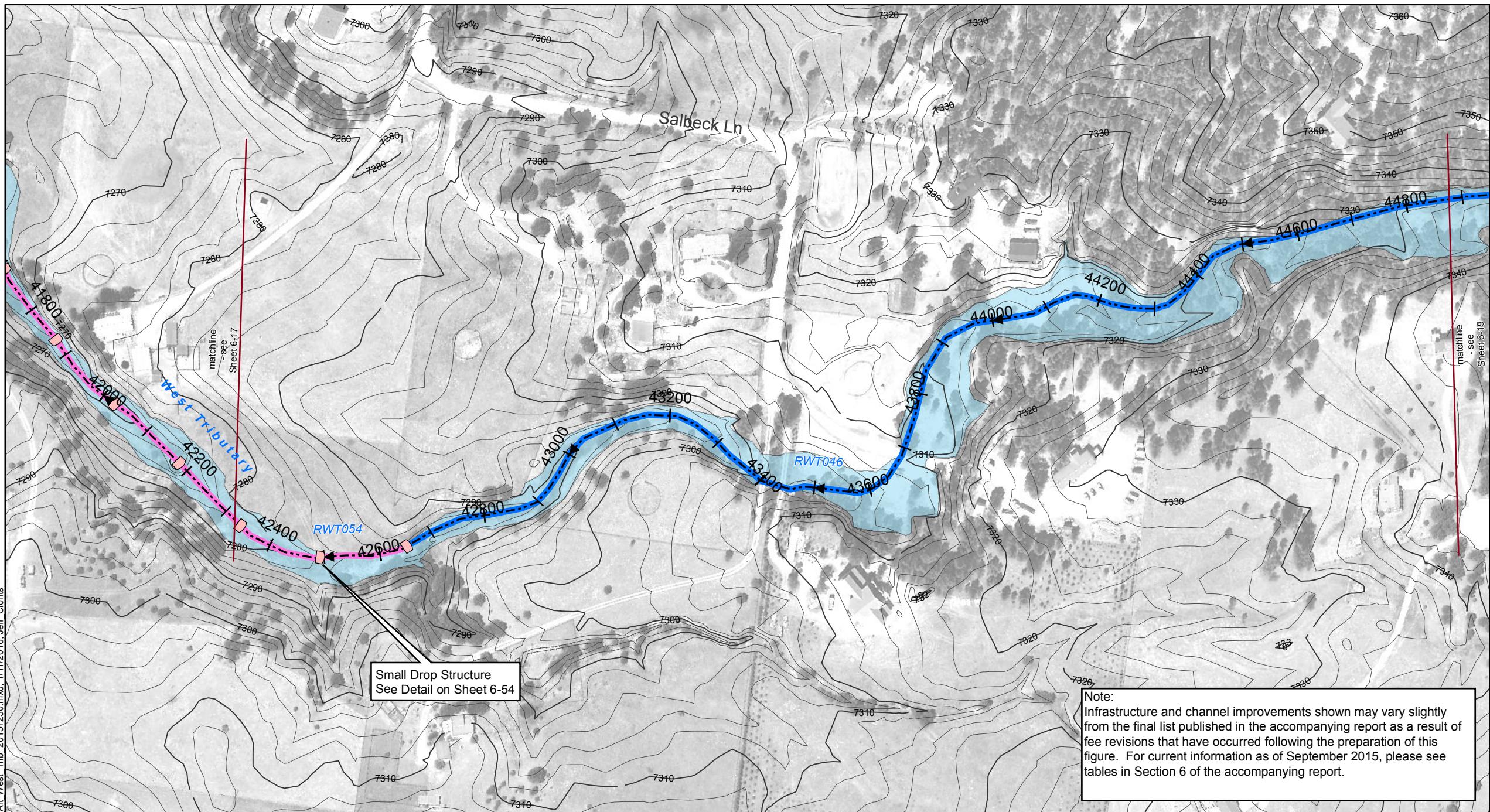
** These are conceptual design drawings and are subject to change. These drawings are not intended for construction purposes.



Matrix
DESIGN GROUP



Sheet 6-18
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



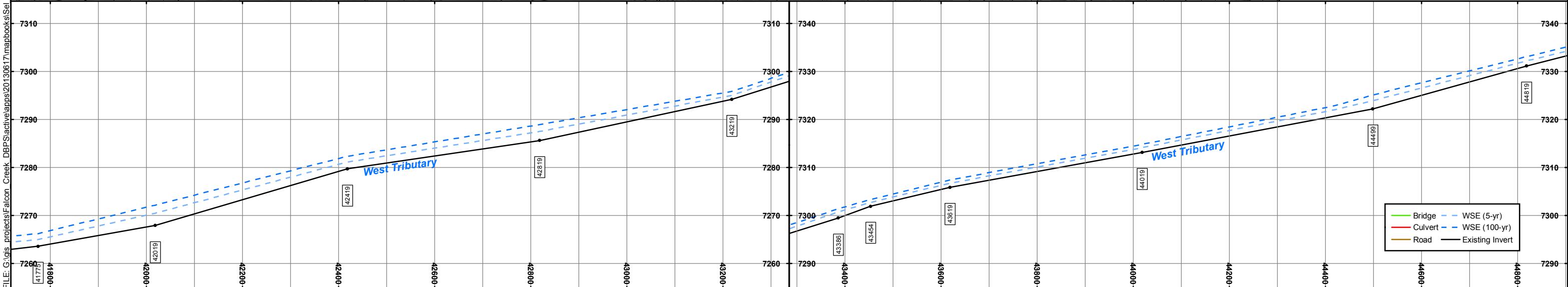
* These approximate 100-yr floodplain boundaries are for planning purposes only. This information is not intended to replace the information provided on the FEMA Flood Insurance Rate Maps for this area.

** These are conceptual design drawings and are subject to change. These drawings are not intended for construction purposes.

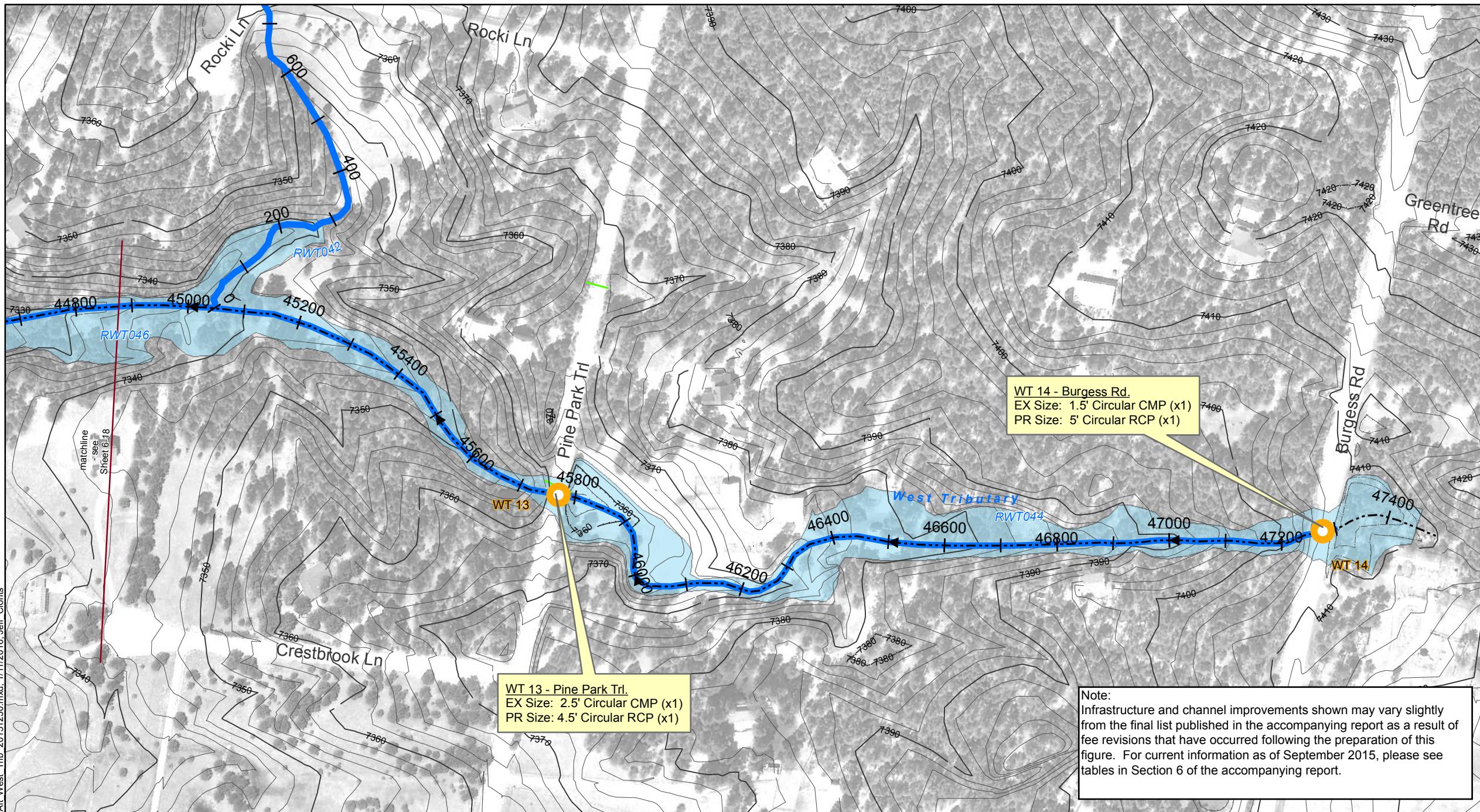
Index Map



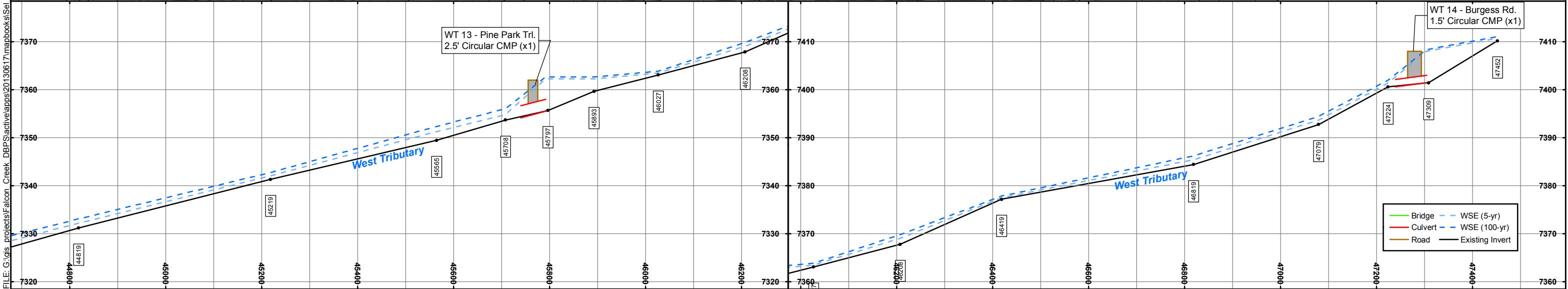
Matrix
 DESIGN GROUP



Sheet 6-19
Falcon DBPS
Conceptual Plan
West Tributary
El Paso County, CO



Matrix
DESIGN GROUP



MDDP & DBPS Amendment
Eagleview Subdivision, El Paso County, CO

APPENDIX E: OPCC

Kimley»Horn

2 North Nevada, Suite 900
Colorado Springs, Colorado 80903

Project: Eagleview Regional Drainage Improvements

Project Number:

Date:

Prepared By: DM

Checked By: KRK

December 22, 2023

Regional Drainage Pond- SR1 (County Cost)					
Proposed Drainage Easement (for future construction)	AC	9.67	\$ 80,000	\$ 773,776	
Subtotal				\$ 773,776	
Reach RWT080 (County Cost)					
Vegetation Plantings (Willows)	EA	1500	\$ 17.50	\$ 26,250	
Vegetation Monitoring and Replacement	EA	300	\$ 17.50	\$ 5,250	
Erosion Control (~10%)	LS	1	\$ 3,150	\$ 3,150	
Subtotal				\$ 34,650	
Reach RWT092 (County Cost)					
Concrete Check Wall (38' wide x 6' deep x 1' thick) (4)	CY	34	\$ 1,800	\$ 61,200	
Riprap Protection (Type M - 12")	CY	340	\$ 116	\$ 39,440	
Rip Rap Chute (18" Riprap) (Junction)	CY	170	\$ 116	\$ 19,720	
Maintenance Road (6" Thick)	CY	260	\$ 56	\$ 14,560	
Erosion Control (~10%)	LS	1	\$ 13,500	\$ 13,500	
Subtotal				\$ 148,420	
Reach RWT054 (County Cost)					
Concrete Check Wall (38' wide x 6' deep x 1' thick) (1)	CY	8	\$ 1,800	\$ 14,400	
Riprap Protection (Type M - 12")	CY	84	\$ 116	\$ 9,744	
Maintenance Road (6" Thick)	CY	310	\$ 56	\$ 17,360	
Erosion Control (~10%)	LS	1	\$ 4,200	\$ 4,200	
Subtotal				\$ 45,704	
Subtotal County Costs				\$ 1,002,550	
Contingency (35%)				\$ 350,892	
TOTAL COUNTY COST				\$ 1,353,442	
Reach RWT094 (Developer Cost)					
<u>South of Proposed Road/ 72" Culverts</u>					
Earthwork	CY	6610	\$ 5	\$ 33,050	
Riprap Protection (Type M - 12") (Riffle) (4)	CY	580	\$ 116	\$ 67,280	
Riprap Protection (Type VL - 6")	CY	98	\$ 116	\$ 11,394	
Coir Mat 40	SY	6952	\$ 8	\$ 55,616	
<u>North of Proposed Road/ 72" Culverts</u>					
Concrete Check Wall (42' wide x 6' deep x 1' thick) (5)	LF	47	\$ 1,800	\$ 84,600	
Riprap Protection (Type M - 12")	CY	470	\$ 116	\$ 54,520	
Maintenance Road (6" Thick)	CY	443	\$ 56	\$ 24,801	
Erosion Control (~10%)	LS	1	\$ 16,400	\$ 16,400	
Subtotal				\$ 347,661	
Subtotal Developer Costs				\$ 347,661	
Contingency (35%)				\$ 121,681	
TOTAL DEVELOPER COST				\$ 469,342	
TOTAL REGIONAL DRAINAGE COST				\$ 1,822,784	

Conceptual Opinion of Probable Construction Cost

The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.