

VALLEY CENTER STORAGE PROJECT SITE

FLOODPLAIN ANALYSIS FOR UNNAMED TRIBUTARY TO KEYS CANYON CREEK

Prepared for

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CONTENTS

TABLES	1
FIGURES AND APPENDICES	1
Executive summary.....	3
Project Overview	4
Purpose and Background	4
.....	5
Prior Studies	6
Computational Methods.....	7
Duplicative Analysis	7
Corrected Duplicative Analysis	7
Results and recommendations.....	8

TABLES

Table 1 Summary of Duplicative Analysis Versus County HEC Model for South Fork of Keys Canyon Creek	8
Table 2 County DPW HEC 2 Duplicative Analysis	19
Table 3 Kimley Horn HEC RAS Analysis of On-Site Tributary.....	20

FIGURES AND APPENDICES

Figure 1 - Project Vicinity Map	5
Figure 2 County of SD DPW HEC 2 Cross Section Locations	16
Figure 3 Kimley Horn Cross Sections On-Site Tributary.....	17
Figure 4 Comparison of County of SD DPW Computational Floodplain Versus SanGIS Delineation.....	22
Figure 5 Computed Flood Limits of On-Site Tributary	23
Figure 6 Composite Floodplain Delineation.....	24
Appendix A – FEMA FIRM Panel Keys Canyon Creek	10
Appendix B – County of San Diego Floodplain Maps	12
Appendix C – County of San Diego DPW HEC 2 Analysis for Keys Canyon Creek	14
Appendix D – Hydraulic Work Maps.....	15
Appendix E – HEC RAS Hydraulic Summary Report	18

Appendix F – Floodplain Maps21

EXECUTIVE SUMMARY

This analysis has been completed to determine the potential for floodplain impacts associated with construction of the proposed up to 140-Megawatt (MW) Valley Center Storage Project (Project). The Project site is generally located within the northwestern area of the unincorporated County of San Diego. The Project would consist of battery energy storage system (BESS) facilities on multiple parcels of land held in common ownership. Construction of the Project is anticipated to begin in 2020 with commencement of Project operations in 2021.

Keys Canyon Creek flows approximately 500 feet to the south of the Project site at its closest point. Floodplain delineation and mapping for Keys Canyon Creek, completed by the Federal Emergency Management Agency (FEMA) and the County of San Diego, dates to as early as 1975. FEMA and the County both delineate the floodplain resulting from Keys Canyon Creek as traveling through the eastern portion of the Project site.

To accurately model baseline flood conditions within the vicinity of the Project site, a corrected duplicative floodplain analysis was performed. Results of this floodplain analysis show that the Project site is outside the limits of the computed floodplain width for the South Fork of Keys Canyon Creek. Additionally, the Project site is subject to concentrated flow that originates along Valley Center Road and discharges through an existing culvert along the westbound lane of Valley Center Road to the north of the Project site. These results are indicated in Appendix E and Figure 6. It is recommended that this floodplain delineation and computational result be used as the basis for establishing baseline flood elevations within the Project site, against which Project impacts associated with minor encroachment can be assessed.

PROJECT OVERVIEW

Valley Center ESS, LLC (Developer) plans to construct, own and operate the Valley Center Storage Project, a lithium-ion based battery energy storage facility capable of delivering up to 140MW for approximately 4 hours on an 8.93-acre parcel in Valley Center, San Diego County (Project). The Project will interconnect to the existing, adjacent San Diego Gas & Electric (SDG&E) 69kV Valley Center Substation via an approximately 0.3-mile underground generation tie-line. The Project will be comprised of up to 60 sets of four battery enclosures (each enclosure with approximate dimensions of 31.6 feet long by 5.7 feet wide by 8.6 feet high) that will house the battery cells, modules, racks, battery management system (BMS), a fully integrated fire and safety system, HVAC systems, inverters, and the integrated Battery Energy Storage System (BESS). The batteries will be charged from the CAISO (California Independent System Operator) grid via the Project's interconnection to the Valley Center Substation. Energy stored in the Project will then be discharged back into the grid when the energy is needed, providing essential electricity reliability services to the local area.

PURPOSE AND BACKGROUND

The purpose and intent of this report is to inform the initial planning process and preliminary engineering design process specifically by:

1. Summarizing the applicability of results from prior floodplain studies completed by the County of San Diego Department of Public Works as well as FEMA for Keys Canyon on the preliminary design process.
2. Establish existing condition Base Flood Elevations within the Project site by performing hydraulic analysis of the channelized flow area.

The Project site is located approximately 0.4-mile southeast of the intersection of Valley Center Road and Lizard Rocks Road. Figure 1 shows the general Project location.

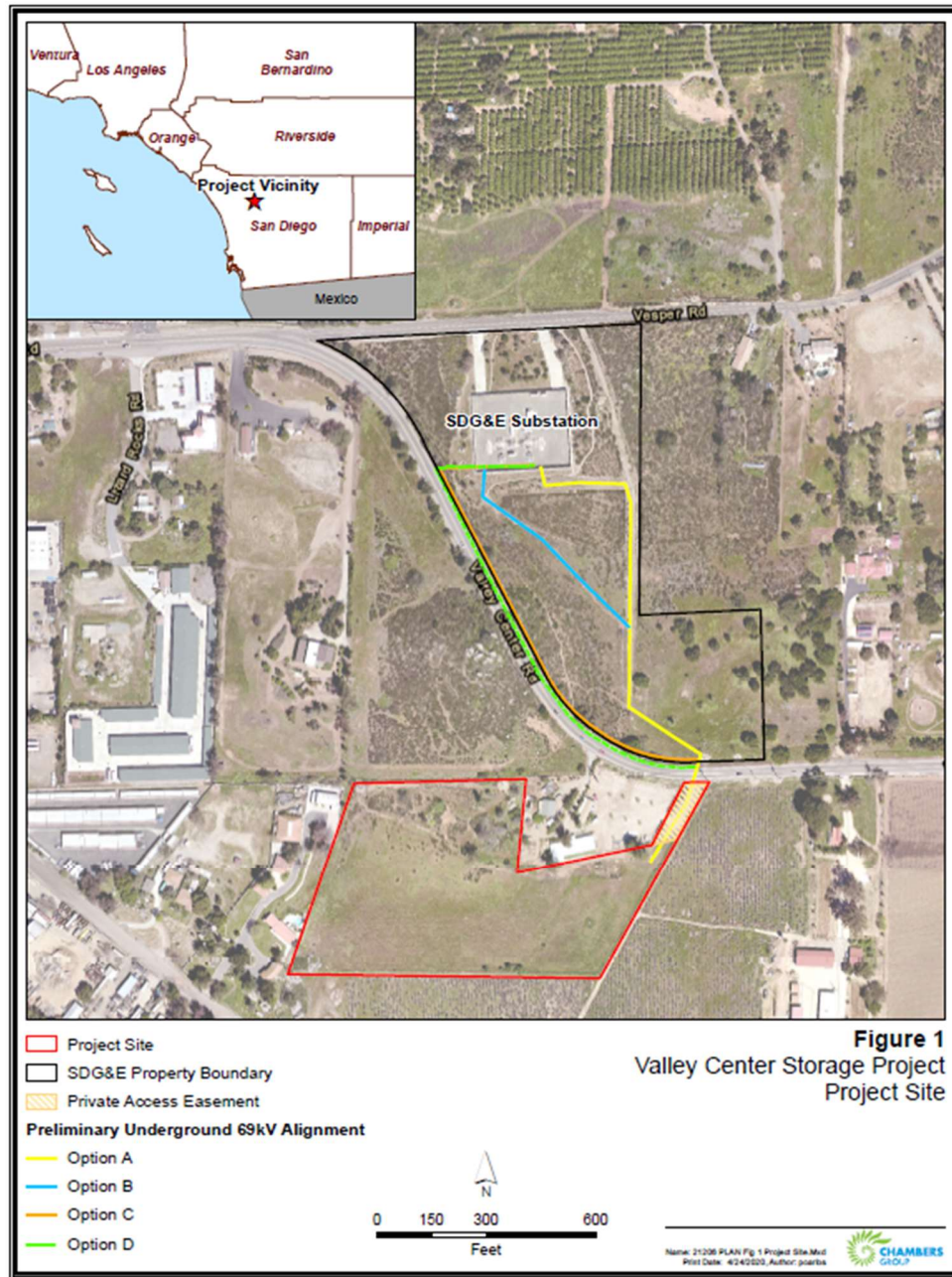


Figure 1 - Project Vicinity Map

PRIOR STUDIES

Based upon preliminary coordination with County of San Diego (County) Department of Public Works (DPW) staff, it is understood that studies and mapping of the Keys Canyon Creek Floodplain date back to as early as 1975. At its closest point, Keys Canyon Creek flows approximately 500 feet to the south of the Project site (see Appendix D, Figure 2). Floodplain delineation and mapping has been completed both by Federal Emergency Management Agency (FEMA) as well as the by the County. A summary of relevant maps and studies to the Project investigation is provided below.

1. **FEMA FIRM 06073C0810G Effective 5/16/2012** – *This map delineates a “Zone A” Special Flood Hazard Area (SFHA). By definition, “Zone A” SFHAs are approximate and do not have established base flood elevations. The FEMA FIRM was used as a visual reference for this analysis. A copy of the FEMA FIRM Zone A floodplain delineation can be found within “Appendix A – FEMA FIRM Panel Keys Canyon Creek”.*
2. **San Diego County Department of Sanitation and Flood Control Floodplain Maps for Keys Canyon Creek (1975)** - *The Department of Sanitation and Flood Control developed maps for the Keys Canyon Floodplain on USC&GS Vertical Datum of 1929 (“the 1975 Maps”). The basis of this delineation was a HEC 2 hydraulic analysis. A copy of the 1975 maps that illustrates the HEC 2 computational cross sections is found within “Appendix B – County of San Diego Floodplain Map.”*
3. **HEC 2 Water Surface Profile Calculations for the South Fork of Keys Canyon Creek (“the HEC 2 Analysis”)**. *It is assumed this model was initially created in conjunction with the 1975 maps. The most recent version of the model was updated in May 1991. A complete copy of the model can be found within “Appendix C – County of San Diego DPW HEC 2 Analysis for Keys Canyon Creek.” Cross Sections 324 through 331 are highly relevant to the location of the project site and are a focus of this analysis.*
4. **GIS Floodplain Shapefiles from SanGIS** - *The San Diego Geographic Information Source (SanGIS) is a Joint Powers Authority (JPA) of the City of San Diego and the County of San Diego responsible for maintaining a regional geographic information system (GIS) landbase and data warehouse. The JPA allows the City and the County to combine resources to meet common objectives to reduce duplication of efforts, maximize resources, provide for an efficient method of sharing information and provide timely updated data to the public. The SanGIS data warehouse maintains a delineation of the Keys Canyon Floodplain, presumably based on several sources including the FEMA FIRM, 1975 maps, and HEC2 Analysis.*

COMPUTATIONAL METHODS

To accurately model baseline flood conditions within the vicinity of the Project site, the following major sub-tasks were performed;

1. Duplication of the County's HEC 2 Model for the South Fork ("Duplicative" Analysis)
2. On Site Floodplain Modeling in GeoHECRAS ("Corrected Duplicative" Analysis a.k.a "Baseline" Analysis)

Each sub-task is discussed in detail in the following sections.

DUPLICATIVE ANALYSIS

In 1995, the United States Army Core of Engineers (USACE) developed an open source, windows-based replacement for HEC 2 called HEC RAS. The first version of HEC RAS operated on the same numeric equations as the original 1968 version of HEC 2. Since 1995, the USACE has continued to improve the computational process of HEC RAS to achieve greater accuracy as well as provide better utility to the user interface. GeoHECRAS is a proprietary 2D/3D visualization and editing data wrapper to the HEC RAS software. It is used for flood control and flood mitigation engineering studies, including production of Federal Emergency Management Agency flood hazard maps and other river engineering studies. GeoHECRAS offers today's design practitioner greater ease with HEC RAS modeling as well as the flexibility of importing and exporting data and mapping results to and from a geospatial environment.

To isolate the effects of current USACE computational processes compared to the HEC 2, a "duplicative" analysis was performed in which all of the County's input parameters are maintained "as is" to determine the presence and extent of variation in output when compared to GeoHECRAS. The duplicative analysis was limited to the areas of the South Fork model between Cross Sections 324 and 331. Variables such as cross section geometry, channel and bank roughness, bank stationing, downstream length, flow rates, ineffective flow, obstructions, and structural placement are identical between both models.

Summary table information and graphic cross section output for the South Fork can be found in "Appendix E – HEC RAS Hydraulic Summary Report."

CORRECTED DUPLICATIVE ANALYSIS

The Project site is subject to concentrated flow that originates along Valley Center Road and discharges through an existing culvert along the westbound lane of Valley Center Road to the north of the Project site. This "on-site tributary"¹ is not directly analyzed within the County's HEC 2 model for the South Fork. Therefore, the duplicative analysis has been "corrected" (or perhaps more descriptively "supplemented") with an additional reach of cross sections to directly compute flow characteristics within the on-site tributary. A bulleted summary of the input parameters for the on-site tributary follows below.

¹ "Tributary" in this context refers to path of concentrated flow specifically for floodplain analysis.

- Cross section geometry was developed using 2' contour elevation obtained through SanGIS developed in 2014. The SanGIS topography is on the North American Vertical Datum of 1988, which differs from the County's HEC 2 analysis by approximately 2.37'.
- Bank stations were estimated visually from SanGIS contour information
- Roughness was estimated based on aerial imagery and generally ranged from as low as .011 for pavement areas or hard pan dirt to as high as .035 for grassy open spaces.
- Levee stationing to account for restraining effects caused by the embankment of Valley Center Road.
- Steady state flow rate based of 100 cfs based on the differential between Cross Section 327 and 325.3 in the County's HEC 2 model for the South Fork, attributed to the contribution from the on-site tributary.
- Hydraulic boundary condition - the confluence between the on-site tributary and the south fork occurs closest to cross section 328. The south fork water surface elevation at this location is 1354.05 (when converted to NAVD '88). For conservatism, the unadjusted water surface elevation at cross section 329 was used as the downstream boundary condition for the on-site tributary (elevation 1357.43).

Summary table information and graphic cross section output for the on-site tributary can be found in "Appendix E – HEC RAS Hydraulic Summary Report."

RESULTS AND RECOMMENDATIONS

Table 1 summarizes the close match between the duplicative GeoHECRAS analysis versus the results from the County's HEC 2 model for the South Fork of Keys Canyon Creek.

Table 1 Summary of Duplicative Analysis Versus County HEC 2 Model for South Fork of Keys Canyon Creek

X Section Number	Base Flood Elevations (NGVD '29) County of San Diego HEC 2	Base Flood Elevations (NGVD '29) Kimley Horn GeoHEC RAS	Difference (ft)
331	1366.06	1366.08	0.02
330	1361.48	1361.47	-0.01
329	1357.32	1357.43	0.11
328	1351.68	1351.80	0.12
327	1350.74	1350.96	0.22
325.3	1350.27	1350.50	0.23
325.2	Bridge	Bridge	Bridge
325.1	1348.13	1348.22	0.09
325	1347.06	1347.27	0.21
324	1342.70	1342.79	0.09

Figure 4 (found within Appendix F – Floodplain Maps) illustrates the spatial relationship between the SanGIS floodplain delineation versus the computational limits of the duplicated HEC 2 model for the South Fork. This graphic clearly illustrates that the SanGIS delineation encompasses more area than the top width of the computed floodplain. It also shows that the Project site is outside the limits of the computed floodplain for the South Fork.

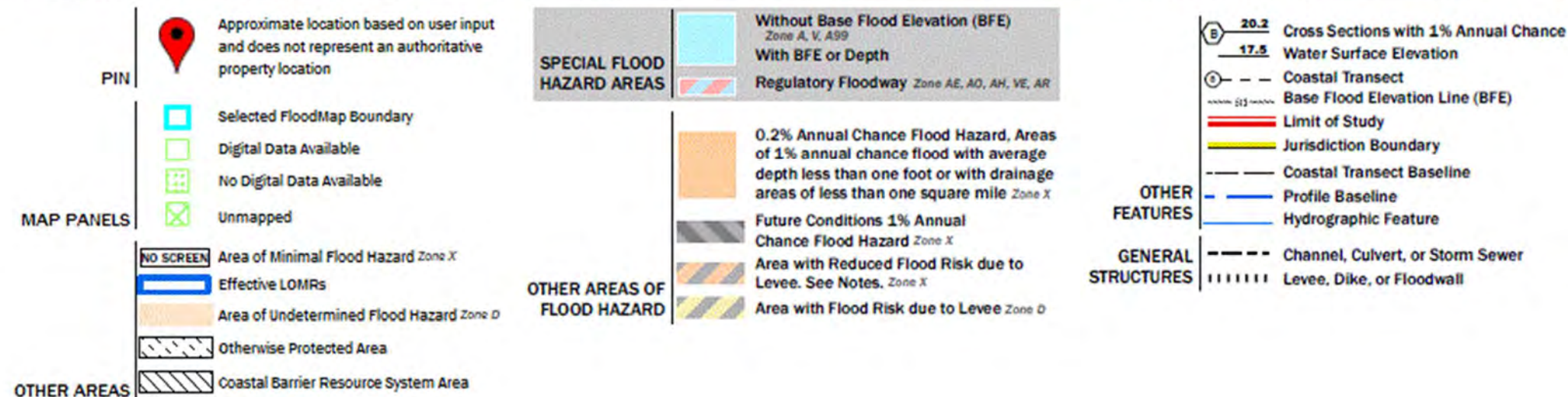
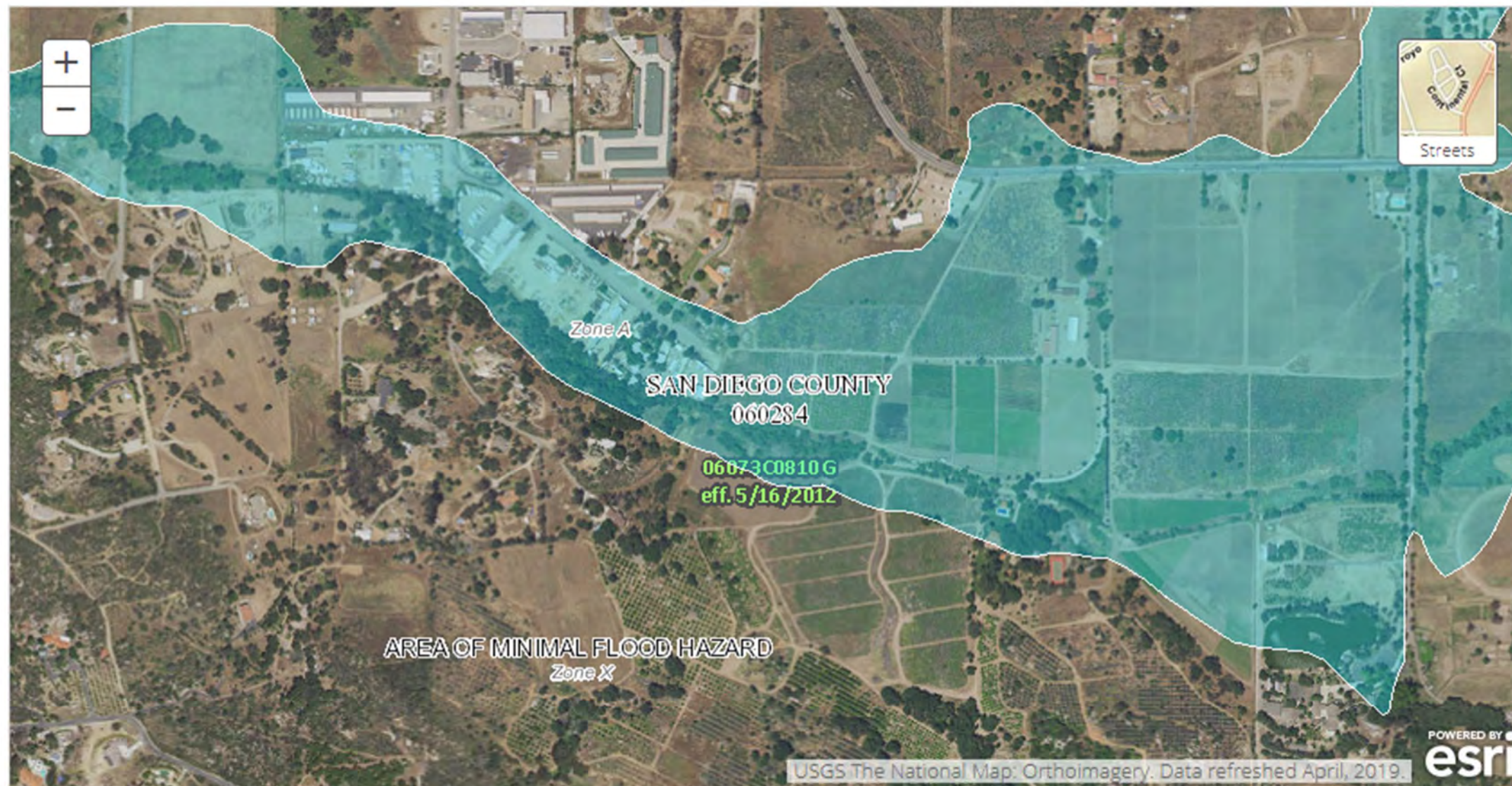
Figure 5 (found within Appendix F – Floodplain Maps) illustrates the computational extent of the on-site tributary in relation to 2' contour information on NAVD 1988.

Figure 6 (found within Appendix F – Floodplain Maps) illustrates the computational composite of both floodplains for the South Fork and the on-site tributary.

It is recommended that this floodplain delineation and computational result (Table 1) be used as the basis for establishing existing baseline flood elevations within the Project site, against which Project impacts associated with minor encroachment can be assessed. An analysis of the post-Project construction condition will be forthcoming pending development of an on-site grading concept.

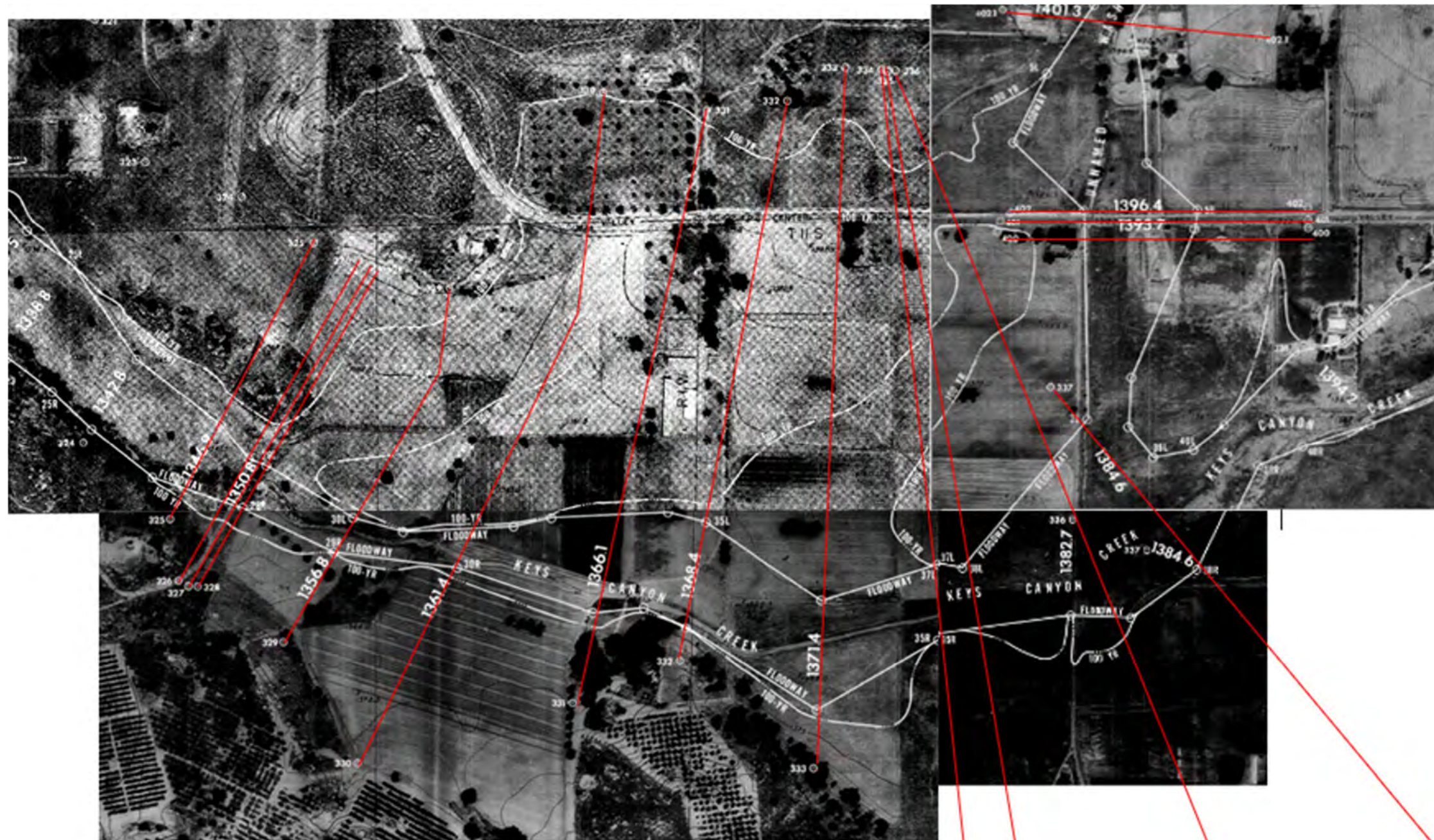


APPENDIX A – FEMA FIRM PANEL KEYS CANYON CREEK





APPENDIX B – COUNTY OF SAN DIEGO FLOODPLAIN MAPS





**APPENDIX C – COUNTY OF SAN DIEGO DPW HEC 2 ANALYSIS
FOR KEYS CANYON CREEK**


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* HEC-2 WATER SURFACE PROFILES *
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* Version  4.6.2;  May 1991    *
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* RUN DATE   19AUG14   TIME   08:33:52 *
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* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET, SUITE D    *
* DAVIS, CALIFORNIA 95616-4687 *
* (916) 756-1104               *
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      X   X XXXXXXX XXXXX      XXXXX
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HEC-2 WATER SURFACE PROFILES

Version  4.6.2;  May 1991
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T1 KEY CREEK SAN DIEGO COUNTY BOB SCHAETZEL FLOOD PLAIN SECT. LAD X5440
T2 SOUTH FORK WITH UPDATED X342-X346 TO INCLUDE VALLEY CENTER ESTATES SUBDV
T3 IRF WITH UNNAMED WASH CONFINED TO CREEK BED UPSTREAM. REVISED CHANNEL BK

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J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	0	0	0	0	1267.74	0
J2	NPROF	IPLLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	10	0	0	0	0	-1			15

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	1	27	28	4	34	33	36
NC	.05	.05	.03	.1	.3		
QT	2	6000	1300				

KEYSCRSF.OUT

KEYS CREEK RIVER MILES WERE ESTABLISHED BY ASSIGNING ZERO TO ITS CONFLUENCE WITH SAN LUIS REY RIVER. THE VALUES FOR THE SOUTH FORK ARE TABULATED BELOW:

CROSS SECTION NUMBER#	RIVER MILE	CROSS SECTION NUMBER#	RIVER MILE
300 REACH END	12.140	301	12.185
302	12.198	303	12.240
304	12.256	305 VALLEY CENTER	12.264
306 ROAD BRIDGE	12.272	307	12.282
308	12.316	309	12.356
310	12.404	311	12.431
312	12.518	313	12.600
314	12.648	315	12.676
316	12.718	317	12.850

CREEK BED FROM X-316 TO X-318 REDEFINED TO THE SOUTH OF PREVIOUS SELECTIO
THUS RIVER MILE FOR X-318 TO X-346 ARE .03 MI. TOO GREAT. BECAUSE THE JO
JOB IS COMPLETE, RENUMBERING WILL NOT BE UNDERTAKEN AT THIS TIME. THIS
MESSAGE WILL RECORD ITS OCCURENCE FOR POSSIBLE FUTURE STUDIES.

318	13.088	319 COLE GRADE	13.153
320 NOT UTILIZED - - -		321 ROAD DIP	13.161
322	13.170	323	13.207
324	13.282	325	13.362
325.1 DIRT ROAD	13.380	325.3 BRIDGE	

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PAGE 2

326 NOT UTILIZED - - -	327	13.400	
328	13.406	329	13.478
330	13.560	331	13.653
332	13.718	333	13.823
334 STABLE ROAD	13.994	335 NOT UTILIZED	
336	14.003	337	14.069
338	14.250	339	14.454
340	14.537	340.1	14.674
341	14.796	342 ROUNDTREE RD	14.858
343 NOT UTILIZED	14.864	344 U.S.72IN.CMP	14.870
344.1	14.880	344.5	14.980
344.8	15.010	344.9 U.S.BRIDGE	15.018
345	15.084	346 REACH START	15.160

UNNAMED WASH CONFINED TO ITS STREAMBED THUS CONFLUENCES 2400CFS AT X346.

VALLEY CENTER ESTATES SUBDIVISION BETWEEN X342-X346 HAS BEEN INCLUDED IN THIS LATEST UPDATE OF SOUTH FORK. ALL HEC2 RUNS PRIOR TO MARCH 19 ARE INCORRECT FROM X342 TO X346.

BASIC CHANGE IN COE POLICY TO PERMIT FLOODWAY ENCROACHMENT IN CRITICAL DEPTH SECTIONS BUT RESTRICTING VELOCITY TO 5FPS AT ENCROACHED BOUNDARY.

X1	300	17	78	200					
X3	10								
GR	1295.0	00000	1291.4	00025	1287.9	00038	1272.2	00078	1260.0
GR	1256.8	00119	1261.6	00145	1271.7	00200	1272.3	00254	1266.0
GR	1266.7	00294	1280.4	00328	1290.9	00361	1293.0	00374	1291.2
GR	1292.3	00414	1295.0	00425					00390

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X1	301	23	243	371	230	230	230			
X3	10									
GR	1310.0	00000	1308.4	00013	1309.9	00041	1311.1	00050	1309.0	00057
GR	1305.4	00090	1305.4	00116	1299.6	00140	1300.4	00177	1299.7	00183
GR	1293.3	00200	1285.5	00243	1275.8	00291	1272.1	00311	1264.0	00327
GR	1268.1	00335	1268.9	00348	1279.5	00371	1281.2	00395	1287.6	00437
GR	1289.2	00474	1293.2	00548	1295.0	00590				

X1	302	16	247	291	70	70	70			
X3	10									
GR	1310.0	00000	1303.4	00053	1299.3	00090	1300.0	00139	1299.3	00147
GR	1292.8	00166	1285.1	00221	1279.9	00247	1272.5	00256	1269.6	00271
GR	1281.0	00291	1285.4	00323	1290.0	00366	1291.3	00414	1292.0	00467
GR	1295.0	00514								

X1	303	20	316	465	140	200	180			
X3	10									
GR	1315.0	00000	1309.2	00041	1303.2	00077	1299.3	00134	1298.8	00171
GR	1298.4	00212	1298.4	00239	1293.0	00266	1289.2	00306	1289.9	00316
GR	1285.7	00335	1279.9	00367	1276.1	00379	1278.8	00401	1277.5	00426
GR	1290.3	00465	1289.9	00484	1295.9	00566	1302.9	00626	1305.0	00653

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PAGE 3

X1	304	24	282	430	80	100	90			
X3	10									
GR	1315.0	00000	1307.4	00041	1303.6	00075	1305.2	00091	1301.3	00120
GR	1299.2	00132	1299.2	00164	1296.9	00190	1297.7	00257	1297.3	00282
GR	1286.3	00311	1282.0	00331	1280.3	00341	1283.8	00358	1290.1	00391
GR	1291.5	00408	1293.0	00420	1296.8	00430	1297.8	00470	1299.2	00541
GR	1307.6	00580	1306.6	00602	1307.0	00608	1310.0	00621		

X1	305	19	222	363	40	70	50			
X3	10									
GR	1310.0	00000	1307.9	00034	1299.1	00077	1299.1	00095	1296.1	00140
GR	1297.6	222	1283	245	1280.4	246	1280.4	275	1283	276
GR	1284.9	300	1287.30	314	1289.5	346	1295.8	363	1298	462
GR	1299.5	607	1303.8	638	1315	742	1330	809		

X1	306	16	270	301	28	28	28			
X3	10									
BT	13	0	1315		59	1306.4		89	1299	
BT	104	1299		166	1295.7		270	1297.3		271
BT	1297.3	1293.3	300	1297.3	1293.3	301	1297.3		533	1298.5
BT		600	1299.7		643	1305.5		759	1315.4	
GR	1314.5	0	1306	59	1298.5	89	1298.5	104	1295.2	166
GR	1296.3	191	1297	221	1297	267	1297	270	1280.4	271
GR	1280.4	300	1297	301	1298	533	1299.2	600	1305	643
GR	1315	759								

X1	307	24	218	316	50	50	50			
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KEYSCRSF.OUT										
X3	10									
GR	1320.0	00000	1314.6	00028	1306.6	00068	1299.7	00096	1299.6	00113
GR	1295.7	00169	1295.5	00187	1296.5	00218	1280.4	00257	1282.4	00273
GR	1288.6	00316	1288.6	00339	1291.6	00391	1292.1	00468	1295.5	00507
GR	1296.7	00513	1299.5	00556	1300.5	00584	1306.4	00636	1307.6	00664
GR	1311.9	00734	1316.1	00769	1324.3	00807	1330.0	00830		
NC	.045	.035	.0250	.1	.3					
X1	308	24	46	162	220	140	180			
X3	10									
GR	1320.0	00000	1311.0	00025	1305.1	00034	1305.1	00046	1286.7	00092
GR	1282.7	00110	1291.7	00145	1299.9	00162	1300.1	00178	1294.2	00192
GR	1291.6	00213	1292.5	00239	1291.9	00267	1294.2	00288	1298.0	00309
GR	1300.2	00352	1303.4	00393	1307.0	00426	1308.7	00462	1311.3	00509
GR	1312.3	00544	1317.1	00577	1323.6	00622	1330.0	00652		
X1	309	28	223	294	220	195	215			
X3	10									
GR	1320.0	00000	1313.6	00022	1309.1	00050	1308.5	00061	1309.3	00075
GR	1303.4	00101	1303.0	00122	1299.7	00140	1291.9	00173	1291.0	00191
GR	1290.7	00223	1286.7	00239	1284.4	00254	1286.3	00273	1290.5	00294
GR	1291.8	00331	1294.0	00370	1294.4	00397	1296.4	00434	1298.8	00469
GR	1300.7	00481	1303.3	00517	1304.8	00544	1306.6	00576	1309.5	00599
GR	1311.2	00636	1312.2	00695	1315.0	00705				

1 19AUG14 08:33:52 PAGE 4

X1	310	30	243	300	180	250	200			
X3	10									
GR	1325.0	00000	1314.7	00044	1311.4	00056	1311.2	00066	1306.4	00101
GR	1297.1	00188	1295.6	00225	1293.5	00233	1295.3	00243	1288.8	00256
GR	1287.5	00273	1295.7	00287	1296.7	00300	1296.6	00357	1294.8	00395
GR	1295.5	00432	1298.7	00509	1301.8	00559	1303.3	00625	1304.2	00645
GR	1307.3	00685	1309.3	00713	1312.7	00753	1311.5	00769	1311.1	00789
GR	1316.6	00874	1318.8	00912	1322.5	00954	1323.3	00991	1325.0	01044
X1	311	28	332	374	150	130	160			
X3	10									
GR	1325.0	00000	1315.3	00049	1312.5	00067	1312.5	00077	1314.0	00085
GR	1307.6	00116	1302.6	00163	1295.9	00248	1297.2	00296	1299.6	00332
GR	1294.0	00360	1298.4	00374	1299.2	00408	1297.7	00450	1298.8	00489
GR	1301.6	00586	1304.4	00654	1306.7	00712	1307.6	00759	1312.3	00781
GR	1314.2	00815	1313.4	00825	1314.5	00831	1315.6	00877	1318.4	00906
GR	1321.0	00982	1321.8	01030	1325.0	01075				
X1	312	28	324	346	400	500	440			
X3	10									
GR	1325.0	00000	1316.6	00056	1313.4	00099	1311.7	00111	1312.1	00121
GR	1310.7	00158	1313.6	00178	1307.3	00207	1304.2	00275	1303.8	00294
GR	1304.9	00305	1303.6	00324	1298.9	00334	1303.8	00346	1304.2	00383
GR	1303.9	00444	1303.6	00521	1304.9	00577	1307.5	00637	1310.7	00704
GR	1311.6	00724	1313.8	00744	1314.2	00789	1316.5	00808	1319.1	00866

KEYSCRSF.OUT										
GR	1320.9	00934	1322.0	00987	1325.0	01059				
X1	313	25	120	163	485	285	385			
X3	10									
GR	1325.0	00000	1324.4	00011	1312.8	00059	1307.7	00089	1307.9	00120
GR	1305.8	00134	1299.3	00142	1307.4	00163	1307.7	00171	1306.3	00186
GR	1306.9	00209	1311.7	00252	1318.7	00284	1315.2	00312	1312.0	00385
GR	1312.9	00431	1310.9	00435	1313.0	00441	1312.8	00488	1315.4	00551
GR	1318.2	00612	1318.5	00639	1319.1	00742	1320.5	00833	1325.0	00903
X1	314	34	171	235	285	285	285			
X3	10									
GR	1335.0	00000	1332.2	00008	1332.5	00019	1322.8	00060	1314.2	00100
GR	1308.5	00132	1311.2	00141	1310.5	00171	1308.6	00183	1306.7	00203
GR	1306.9	00223	1310.6	00235	1312.6	00267	1313.4	00300	1310.5	00328
GR	1313.5	00341	1314.9	00382	1316.1	00447	1317.7	00490	1319.2	00543
GR	1320.3	00630	1319.0	00734	1320.5	00753	1321.6	00807	1322.5	00873
GR	1325.4	00885	1326.4	00899	1326.4	00926	1325.5	00932	1326.4	00975
GR	1328.0	00997	1334.7	01013	1343.2	01078	1350.0	01120		
X1	315	37	200	313	140	180	140			
X3	10									
GR	1335.0	00000	1330.0	00035	1329.6	00053	1329.6	00066	1324.5	00099
GR	1317.9	00124	1316.8	00149	1313.9	00169	1312.7	00200	1308.6	00257
GR	1308.4	00282	1310.9	00299	1314.3	00313	1315.8	00337	1317.8	00351
GR	1315.8	00372	1314.9	00398	1316.9	00413	1317.3	00515	1319.1	00553
GR	1319.9	00632	1321.0	00730	1320.9	00819	1322.3	00945	1320.4	00966
GR	1322.4	00999	1326.2	01018	1327.3	01026	1327.4	01062	1327.3	01122
1	19AUG14	08:33:52							PAGE	5
GR	1328.5	01165	1332.8	01177	1340.2	01227	1349.9	01281	1360.1	01295
GR	1357.1	01310	1365.0	01364						
X1	316	39	318	466	200	200	200			
X3	10									
GR	1345.0	00000	1321.4	00080	1320.9	00091	1317.1	00127	1316.9	00135
GR	1313.7	00161	1314.8	00187	1318.1	00224	1318.5	00261	1320.0	00318
GR	1318.8	00355	1317.0	00386	1317.9	00411	1317.5	00423	1319.5	00444
GR	1319.8	00466	1320.1	00539	1320.4	00583	1320.4	00624	1321.9	00691
GR	1322.4	00762	1322.9	00806	1324.3	00850	1325.6	00918	1323.5	01003
GR	1325.3	01057	1323.8	01071	1324.8	01099	1330.3	01112	1331.1	01133
GR	1330.6	01152	1326.0	01161	1326.0	01170	1326.7	01318	1328.6	01435
GR	1330.2	01550	1336.1	01684	1341.8	01802	1345.0	01880		
X1	317	47	386	404	340	480	380			
X3	10					803	1325.7			
GR	1350.0	00000	1346.0	00025	1342.3	00039	1342.2	00051	1336.1	00070
GR	1334.5	00087	1329.0	00129	1325.1	00178	1323.4	00250	1322.4	00340
GR	1321.8	00361	1323.6	00386	1320.6	00395	1322.2	00404	1323.7	00450
GR	1324.4	00519	1324.5	00555	1323.2	00579	1325.0	00618	1324.7	00682
GR	1325.3	00790	1327.3	00803	1327.0	00834	1327.0	00866	1327.5	00897
GR	1325.2	00913	1325.3	00922	1325.4	00971	1325.6	01021	1327.3	01035

						KEYSCRSF.OUT				
GR	1325.7	01059	1326.8	01120	1325.8	01148	1327.5	01223	1328.9	01313
GR	1330.3	01347	1335.4	01367	1336.1	01387	1335.7	01412	1331.7	01425
GR	1332.9	01449	1334.5	01474	1338.4	01538	1344.0	01595	1345.4	01626
GR	1346.8	01716	1347.4	01800						
X1	318	50	1183	1213	1180	1260	1180			
X3	10			1050						
GR	1355.0	00000	1354.1	00023	1351.6	00071	1345.8	00142	1341.5	00250
GR	1337.8	00366	1337.1	00468	1336.1	00533	1336.9	00559	1335.2	00619
GR	1336.0	00658	1339.4	00705	1341.0	00739	1341.0	00761	1335.4	00802
GR	1331.1	00857	1330.9	00919	1330.8	00977	1331.8	01073	1331.9	01131
GR	1332.8	01183	1329.2	01196	1333.4	01213	1332.4	01240	1332.8	01303
GR	1332.5	01344	1331.7	01411	1333.0	01492	1334.0	01536	1337.1	01612
GR	1337.9	01644	1338.6	01667	1338.1	01713	1340.0	01764	1340.7	01820
GR	1342.0	01894	1343.8	01966	1345.9	02033	1347.7	02071	1350.8	02117
GR	1353.1	02184	1353.9	02244	1354.3	02311	1355.4	02344	1356.4	02435
GR	1357.7	02512	1358.3	02611	1360.7	02645	1364.4	02659	1365.0	02667
X1	319	32	324	353.1	380	380	380			
X3	10									
GR	1347.0	00000	1347.2	00085	1344.4	00155	1343.5	00185	1341.3	00232
GR	1342.3	00245	1341.5	00248	1346.1	00268	1341.2	00279	1340.0	00301
GR	1337.2	324	1333.8	345	1331.1	345.1	1331.1	353	1333.8	353.1
GR	1333.7	00759	1333.6	00793	1334.1	00800	1334.4	00818	1333.9	00833
GR	1336.3	00863	1339.1	00932	1340.0	00984	1340.5	01043	1341.6	01114
GR	1343.1	01220	1346.0	01305	1347.1	01333	1349.6	01395	1351.9	01450
GR	1353.1	01493	1355.0	01514						

1

19AUG14 08:33:52

PAGE 6

SB	1.25	1.22	2.8		8		14			
X1	321	18	343	351.1	15	15	15			
X2			1						.76	
X3	10									
BT	18	0	1355		131	1350.6		193	1344.8	
BT	241	1341.6		308	1337.2		343	1333.5		343.1
BT	1333.5	1332.5	351	1333.5	1332.5	351.1	1333.5		359	1333
BT		398	1335.7		643	1332.9		836	1335.5	
BT	868	1334.9		1014	1340.2		1287	1344.9		1364
BT	1349.4		1528	1355						
GR	1354.5	0	1350	131	1344.3	193	1341	241	1336.7	308
GR	1333	343	1331.1	343.1	1331.1	351	1333	351.1	1332.5	359
GR	1335.2	398	1332.4	643	1335	836	1334.4	868	1339.7	1014
GR	1344.4	1287	1354	1364	1354.5	1528				
NC	.045	.035	.0250	.1	.3					
X1	322	32	240	293	40	40	40			
X3	10									
GR	1360.0	00000	1358.9	00034	1352.6	00077	1342.5	00155	1338.5	00193
GR	1335.7	00221	1335.8	00240	1334.5	00247	1331.5	00262	1331.3	00273
GR	1334.9	00281	1335.7	00293	1335.5	00371	1335.7	00435	1335.8	00499
GR	1334.6	00573	1334.8	00607	1336.2	00625	1338.0	00678	1339.8	00753

KEYSCRSF.OUT										
GR	1342.4	00785	1346.0	00830	1349.2	00851	1350.6	00863	1351.5	00889
GR	1350.3	00917	1349.6	00931	1346.0	00934	1346.6	01032	1347.1	01067
GR	1352.9	01092	1360.0	01109						
X1	323	33	125	155	200	200	200			
X3	10									
GR	1365.0	00000	1347.4	00046	1340.0	00073	1339.0	00087	1337.3	00102
GR	1336.4	00125	1333.9	00136	1333.9	00141	1336.1	00155	1336.7	00175
GR	1335.8	00224	1336.9	00270	1335.6	00336	1336.2	00405	1336.4	00446
GR	1336.3	00473	1336.8	00495	1337.6	00520	1339.6	00540	1341.7	00564
GR	1343.0	00608	1344.6	00639	1346.0	00659	1347.2	00670	1346.3	00682
GR	1346.7	00721	1348.0	00763	1349.3	00795	1351.7	00829	1354.4	00864
GR	1356.6	00890	1360.5	00920	1365.0	00953				
X1	324	35	27	103	400	400	400			
X3	10									
GR	1370.0	00000	1355.8	00027	1337.8	00063	1337.4	00073	1337.4	00083
GR	1339.5	00089	1340.6	00103	1339.8	00160	1340.8	00201	1340.3	00252
GR	1339.9	00292	1341.4	00351	1341.4	00412	1342.0	00444	1344.1	00452
GR	1345.4	00467	1348.7	00478	1349.2	00490	1357.3	00502	1358.7	00514
GR	1362.5	00530	1361.0	00550	1358.0	00568	1355.9	00582	1353.1	00625
GR	1352.0	00644	1352.4	00671	1350.8	00707	1350.0	00729	1352.3	00782
GR	1354.0	00826	1358.5	00893	1360.7	00935	1364.0	00992	1370.0	01045
NC	.025	.025	.025							
X1	325	41	116	195	420	420	420			
X3	10									
GR	1375.0	00000	1351.8	00055	1349.1	00075	1346.2	00092	1346.9	00116
GR	1343.2	00146	1339.7	00157	1340.0	00166	1343.6	00176	1344.8	00195
GR	1344.1	00232	1344.5	00291	1344.3	00305	1345.4	00328	1346.7	00370
GR	1346.6	00414	1346.0	00434	1346.7	00471	1347.4	00495	1349.7	00525
1	19AUG14	08:33:52							PAGE	7
GR	1353.6	00558	1357.0	00586	1360.3	00614	1362.1	00639	1364.5	00667
GR	1366.7	00682	1366.7	00702	1366.6	00715	1366.2	00750	1364.9	00775
GR	1362.0	00794	1360.7	00806	1359.4	00834	1358.5	00850	1358.3	00865
GR	1359.0	00883	1360.5	00914	1362.9	00952	1365.6	00992	1368.7	01034
GR	1375.0	01112								
X1	325.1	31	302	372	85	85	85			
X3	10									
GR	1391.8	00000	1381.0	00059	1364.3	00140	1352.0	00172	1348.0	00203
GR	1346.5	261	1345.5	302	1340.2	342	1340.2	343	1340.2	361
GR	1340.2	362	1345.5	372	1347	465	1347.0	600	1356	626
GR	1359.0	00645	1356.0	00655	1361.0	00677	1364.0	00730	1365.0	00812
GR	1366.5	00829	1368.0	00918	1365.0	00945	1362.5	01000	1363.0	01050
GR	1365.0	01098	1368.6	01150	1376.0	01252	1381.5	01310	1384.4	01334
GR	1392.0	01425								
SB		1.28	2.8		20		23.3			
X1	325.3	33	391	410	30	30	30			
X2			1							

KEYSCRSF.OUT

X3	10									
BT	12	198	1353		303	1347.2		370	1346	
BT	390	1345.7		391	1345.7	1344	410	1345.7	1344	411
BT	1345.7		424	1346.4		568	1348.2		590	1351
BT		611	1349		648	1356				
GR	1379.4	00000	1379.5	00054	1372.4	00107	1352.0	00198	1350.0	00235
GR	1347.2	303	1345	370	1341.9	390	1340.4	391	1340.4	410
GR	1346.2	500	1348.2	568	1350	580	1350.5	590	1350	600
GR	1348.5	00611	1349.0	00632	1355.7	00648	1360.0	00665	1363.5	00700
GR	1365.0	00770	1366.4	00833	1367.0	00894	1364.8	00952	1361.8	01050
GR	1365.0	01115	1367.7	01187	1369.8	01240	1375.0	01290	1383.6	01356
GR	1387.0	01396	1389.0	01422	1392.4	01460				
QT	2	5900	1200							
NC	.025	.025	.025							
X1	327	34	382	445	80	80	80			
X3	10									
GR	1375.0	00000	1369.8	00035	1368.1	00063	1360.4	00121	1356.1	00164
GR	1353.3	00221	1350.5	00283	1348.8	00344	1346.5	00382	1342.5	00401
GR	1341.1	00413	1346.5	00427	1348.0	00445	1348.8	00471	1350.1	00500
GR	1351.6	00585	1352.1	00604	1354.5	00641	1356.2	00659	1358.6	00686
GR	1359.7	00711	1360.3	00738	1360.8	00782	1361.0	00820	1361.6	00854
GR	1361.3	00880	1360.7	00918	1360.0	00979	1360.7	01049	1362.4	01112
GR	1365.3	01174	1367.6	01231	1372.4	01291	1375.0	01310		
X1	328	37	347	421	40	40	40			
X3	10									
GR	1375.0	00000	1363.7	00057	1358.7	00099	1356.6	00126	1354.8	00163
GR	1352.2	00198	1351.6	00254	1350.5	00311	1350.1	00347	1346.9	00373
GR	1341.1	409	1348.4	421	1349.6	448	1349.70	477	1349.90	500
GR	1351.1	00549	1350.8	00581	1351.0	00596	1352.2	00623	1353.4	00637
GR	1352.7	00643	1354.0	00654	1356.9	00693	1358.9	00736	1360.3	00769
GR	1360.3	00809	1360.1	00830	1359.0	00846	1360.0	00890	1360.4	00941
GR	1360.5	00997	1361.6	01048	1362.4	01115	1364.6	01168	1367.8	01227
GR	1370.9	01264	1375.0	01302						

1

19AUG14 08:33:52

PAGE 8

NC	.04	.025	.025	.1	.3					
X1	329	40	425	502	400	400	400			
X3	10									
GR	1375.0	00000	1368.7	00024	1368.0	00038	1366.0	00061	1365.1	00114
GR	1361.9	00200	1359.1	00295	1358.3	00339	1354.9	00383	1353.2	00405
GR	1352.8	00425	1350.7	00437	1349.0	00440	1348.9	00450	1349.1	00457
GR	1351.1	00466	1353.4	00484	1355.6	00502	1356.2	00519	1356.6	00547
GR	1357.0	00602	1357.5	00665	1358.9	00683	1357.7	00711	1358.7	00767
GR	1358.9	00825	1359.1	00849	1359.2	00879	1359.6	00887	1360.6	01000
GR	1361.7	01109	1363.6	01188	1364.7	01251	1364.2	01296	1365.4	01325
GR	1367.1	01353	1368.6	01368	1370.0	01391	1371.5	01404	1375.0	01412
X1	330	48	789	947	450	450	450			
X3	10									

KEYSCRSF.OUT										
GR	1380.0	00000	1376.6	00054	1373.0	00195	1371.2	00308	1369.7	00421
GR	1367.0	00518	1364.9	00614	1362.6	00690	1360.9	00742	1359.0	00789
GR	1357.0	00805	1356.3	00809	1356.3	00815	1356.6	00828	1357.4	00832
GR	1357.7	00868	1357.0	00882	1358.6	00916	1360.7	00947	1361.0	00971
GR	1362.5	01066	1365.1	01239	1366.6	01356	1366.8	01425	1367.6	01500
GR	1368.3	01586	1369.9	01706	1370.9	01784	1372.1	01878	1372.1	01941
GR	1372.8	02006	1372.8	02045	1373.6	02056	1372.6	02097	1381.0	02111
GR	1381.3	02120	1380.0	02142	1379.8	02149	1374.5	02163	1374.6	02235
GR	1374.5	02322	1375.6	02369	1375.3	02418	1377.3	02456	1379.2	02500
GR	1380.8	02532	1382.5	02571	1385.0	02597				

X1	331	10	334	403	550	480	500			
X3	10									
GR	1366.7	240	1364.3	334	1362.4	360	1361.1	385	1362.8	394
GR	1363.8	403	1363.2	444	1364.1	553	1365.5	710	1366.8	844

NC	.035	.025	.03	.1	.3					
X1	332	11	98	173	330	330	330			
X3	10									
GR	1375	98	1366.4	121	1364.6	139	1363.6	145	1363.5	158
GR	1364.1	163	1366.1	173	1366.1	249	1366.3	317	1367.3	493
GR	1369.7	699								

X1	333	17	434	503	550	500	515			
X3	10					594	1371.4			
GR	1378.1	97	1368.2	192	1367.4	225	1368.4	295	1369.3	328
GR	1369.4	434	1367.4	448	1367.2	457	1368.7	476	1369.4	503
GR	1370.1	587	1371.5	594	1371.1	616	1370.8	657	1371.4	786
GR	1371.9	908	1372.8	1007						

X1	334	25	913	945	900	900	900			
X3	10					1550				
GR	1382.2	660	1381	699	1381	728	1379.2	769	1380.2	817
GR	1379.7	846	1379.2	881	1379.9	895	1378.8	913	1372.5	915
GR	1372.4	924	1373.1	931	1377.8	945	1378.6	981	1379.2	1052
GR	1379.4	1117	1379.1	1247	1378.8	1427	1379	1552	1379.6	1645
GR	1380.7	1816	1382.7	2000	1383.6	2118	1385.8	2220	1388	2308

1

19AUG14 08:33:52

PAGE 9

SB	.9	1.34	2.8		8.5	.5	41.6	.5	1372.4	1373.7
	LATEST BRIDGE MODELING WITH ROB STATIONS ON EAST SIDE OF STABLE ROAD.									
X1	336	17	911	957	50	50	50			
X2			1	1379.7	1381.2					
X3	10					1600		1380.8	1380.6	
BT	9	668	1382.3		780	1380.8		911	1381.2	1379.7
BT	921	1381.2	1379.7	1031	1380.6		1140	1380.6		1400
BT	1381.4		1700	1384		2000	1388.9			
GR	1383.3	618	1382.1	668	1380.8	733	1379.6	788	1380.2	874
GR	1379.5	911	1373.7	921	1373.8	933	1381.2	957	1381.1	1025
GR	1380.8	1172	1380.4	1307	1381.2	1500	1382	1600	1383.2	1700
GR	1385.6	1800	1388.8	2000						

KEYSCRSF.OUT

NC	.04	.025	.025	.1	.3						
QT	2	3000	600								
	ROB	STATIONS	TIE	INTO	HILL	TOP.	DOES	NOT	CROSS	STABLE	ROAD
X1	337	15	1428	1446	350	170	320				
X3	10										
GR	1390.8	1033	1387.5	1048	1387.1	1066	1388.1	1079	1387	1162	
GR	1384.2	1264	1382.9	1345	1382.6	1381	1382.1	1428	1379.8	1438	
GR	1382.3	1446	1382.8	1491	1384.5	1640	1385	1790	1387	1960	
X1	338	33	1947	2094	860	860	860				
X3	10										
GR	1420.0	00000	1416.4	00167	1412.2	00366	1408.4	00544	1405.1	00707	
GR	1402.8	00828	1400.4	00980	1399.0	01101	1397.9	01195	1398.7	01242	
GR	1399.7	01279	1399.4	01294	1400.0	01310	1399.9	01352	1400.0	01436	
GR	1400.5	01510	1400.7	01546	1399.6	01605	1398.7	01657	1399.3	01680	
GR	1396.1	01772	1393.0	01947	1391.7	01961	1391.8	01978	1391.5	02000	
GR	1391.3	02032	1391.0	02053	1392.2	02094	1392.1	02151	1391.8	02217	
GR	1394.5	2450	1396	2650	1400	2675					
X1	339	28	2076	2098	800	800	800				
X3	10										
GR	1420	0	1416.7	112	1412.9	342	1414.3	355	1408.2	602	
GR	1405.1	682	1407.6	825	1405.4	938	1405.4	969	1408.1	1078	
GR	1405.9	1145	1404.3	1500	1400.2	1700	1402.3	2076	1399.4	2084	
GR	1404.6	2098	1405.3	2106	1400.3	2151	1404	2238	1406.7	2251	
GR	1411.7	2274	1405.5	2373	1408.3	2534	1408.1	2679	1409.8	2791	
GR	1412	2900	1417.4	3210	1420	3403					
NC	.025	.025	.02	.1	.3						
QT	2	2350	470								
X1	340	63	1899	1925	450	450	450				
X3	10										
GR	1425.0	00000	1422.1	00139	1421.9	00156	1421.4	00182	1420.0	00275	
GR	1415.9	00424	1413.4	00512	1412.7	00516	1412.7	00528	1410.6	00623	
GR	1410.3	00694	1410.3	00702	1410.4	00743	1410.1	00770	1409.6	00801	
GR	1410.8	00834	1411.0	00867	1412.2	00919	1412.9	00961	1413.8	01000	
GR	1414.4	01078	1414.7	01149	1413.3	01236	1412.3	01321	1410.0	01383	
GR	1406.4	01460	1405.3	01524	1405.2	01576	1405.5	01646	1404.8	01712	
GR	1404.8	01816	1405.4	01873	1406.4	01899	1400.9	01908	1408.5	01925	
GR	1408.3	01965	1406.1	01972	1404.5	01984	1404.7	02064	1405.6	02157	
1	19AUG14	08:33:52									
GR	1404.1	02167	1405.3	02174	1405.7	02204	1404.9	02218	1405.7	02230	
GR	1405.3	02280	1407.0	02313	1408.3	02343	1407.7	02379	1408.3	02459	
GR	1410.8	02509	1410.6	02572	1411.5	02604	1412.7	02656	1414.0	02724	
GR	1414.0	02803	1415.6	02889	1416.5	02984	1417.7	03065	1419.8	03156	
GR	1421.8	03232	1423.8	03338	1425.0	03405					
X1	340.1	35	2357	2392	710	710	710				
X3	10										
GR	1435	0	1431.5	125	1429.2	530	1424.7	714	1425.3	851	

KEYSCRSF.OUT										
GR	1427.5	869	1433.8	875	1436.9	882	1428.6	896	1431	901
GR	1427.5	910	1429.6	913	1422.3	928	1415.5	1156	1413.9	1303
GR	1414.8	1355	1416.1	1554	1412.7	1932	1411.7	1992	1414.1	2338
GR	1414.8	2357	1407.5	2370	1412.5	2376	1417.6	2385	1418.2	2392
GR	1418.2	2419	1416.9	2630	1417.8	2852	1414.2	2991	1414.2	3021
GR	1415.2	3111	1417.9	3382	1421.1	3560	1427.1	3832	1432.2	4091
X1	341	48	1674	1714	630	630	630			
X3	10					1753				
GR	1440.0	00000	1438.5	00026	1436.7	00072	1434.8	00112	1433.9	00140
GR	1434.4	00153	1431.9	00235	1429.7	00334	1428.5	00425	1427.5	00478
GR	1427.3	00547	1425.8	00578	1425.0	00622	1425.7	00758	1423.2	01000
GR	1424.5	01062	1424.1	01192	1422.4	01337	1420.8	01415	1420.5	01487
GR	1420.3	01555	1419.0	01643	1420.7	01674	1414.9	01681	1422.4	01703
GR	1422.8	01714	1422.9	01744	1422.4	01753	1419.2	01781	1420.2	01839
GR	1420.4	01909	1418.7	01921	1421.6	01934	1421.9	02050	1422.2	02128
GR	1419.9	02154	1423.4	02194	1423.3	02285	1423.2	02432	1423.9	02566
GR	1428.2	02741	1429.7	02875	1430.6	02989	1429.4	03020	1429.8	03054
GR	1433.1	03161	1436.6	03260	1440.0	03376				
NC	.035	.030	.035	.1	.3					
QT	2	1920	400							
X1	342	57	1736	1763	330	330	330			
X3	10					1792	1427			
GR	1440.0	00000	1437.6	00047	1438.1	00083	1438.8	00120	1438.3	00146
GR	1435.6	00195	1434.3	00229	1434.7	00245	1435.0	00267	1432.9	00283
GR	1432.0	00333	1431.9	00386	1430.3	00431	1429.7	00460	1429.3	00555
GR	1428.7	00631	1429.4	00684	1430.0	00748	1430.3	00814	1429.1	01000
GR	1430.1	01096	1428.1	01216	1427.6	01286	1425.7	01349	1424.8	01427
GR	1423.1	1537	1422.4	1620	1422.7	1736	1419	1737	1419	1739
GR	1420.7	1740	1420.7	01743	1424.8	01754	1426.6	01763	1426.6	01792
GR	1423.7	01814	1423.4	01845	1424.9	01906	1424.4	01982	1424.6	02056
GR	1424.3	02123	1424.2	02186	1424.9	02252	1425.8	02334	1426.9	02418
GR	1427.2	02496	1427.4	02583	1429.4	02641	1430.2	02741	1432.7	02832
GR	1433.8	02871	1431.7	02951	1431.4	02988	1433.0	03044	1435.6	03108
GR	1437.7	03171	1440.0	03209						
SB	1.25	1.5	3	0	3.2	0	25	.01	1419.4	1419
X3	10							1424.2	1426.1	

NEW GROUND ELEVATIONS INCLUDE VALLEY CENTER ESTATES NEW ROUNDTREE ROAD

1

19AUG14 08:33:52

PAGE 11

AND THE NEW 72INCH CMP FOR SOUTH FORK. GROADING PLAN ELEVATIONS USED.										
X1	344	30	1728	1734	66	66	66			
X2			1	1425.4	1424.2					
BT	28	1297	1427.6	0	1417	1425.8	0	1442	1425.4	0
BT	1467	1425.1	0	1492	1424.9	0	1517	1424.8	0	1627
BT	1424.2	0	1642	1424.2	0	1657	1424.5	0	1672	1424.9
BT	0	1687	1425.5	0	1702	1426.1	0	1717	1426.4	0
BT	1728	1426.4	1422.4	1728.1	1426.4	1423.2	1728.5	1426.4	1424.1	1729
BT	1426.4	1424.6	1729.5	1426.4	1425	1730	1426.4	1425.2	1731	1426.4
BT	1425.4	1732	1426.4	1425.2	1732.5	1426.4	1425	1733	1426.4	1424.6

KEYSCRSF.OUT										
BT	1733.5	1426.4	1424.1	1733.9	1426.4	1423.2	1734	1426.4	1422.4	1747
BT	1426.1	0	1767	1426.7	0					
GR	1427.5	1297	1425.7	1417	1425.3	1442	1425	1467	1424.8	1492
GR	1424.7	1517	1424.1	1627	1424.1	1642	1424.4	1657	1424.8	1672
GR	1425.5	1687	1426	1702	1426.3	1717	1426.3	1727	1422.4	1728
GR	1421.6	1728.1	1420.7	1728.5	1420.2	1729	1419.8	1729.5	1419.9	1730
GR	1419.9	1731	1419.9	1732	1419.9	1732.5	1420.2	1733	1420.8	1733.5
GR	1421.6	1733.9	1422.4	1734	1426.3	1735	1426	1747	1426.6	1767

NEW SECTION TO DEFINE NEW CULVERT AND REGRADED CREEKBED. GRADING PLAN EL										
X1	344.1	16	1695	1743	55	55	55			
X3	10									
GR	1430	1137	1429	1205	1428.6	1225	1428	1362	1428	1464
GR	1425.6	1484	1425	1517	1425	1695	1424	1712	1422	1715
GR	1421.2	1722	1423	1728	1425	1743	1427	1747	1428	1753
GR	1428.3	1767								

NEW SECTION TO DEFINE VALLEY CENTER ESTATES GRADING PLAN.NOT DIGITIZED										
QT	2	1800	400							
X1	344.5	10	30	70	440	510	450			
X3	10									
GR	1432	0	1429.2	30	1427.2	37	1427.2	57	1429.2	70
GR	1431.1	158	1432.2	162	1433	230	1434	260	1435	300

DOWNSTREAM QUEENSBIDGE ROAD BRIDGE-NEW FOR VALEY CENTER ESTATES SUBDIV										
QT	2	1765	400							
X1	344.8	10	520	570	148	98	142			
X3	10							1432.3	1432.3	
GR	1435	246	1434	304	1433	408	1433.5	520	1428.3	530
GR	1428.3	550	1434	570	1435	655	1435	800	1434.5	905

SB	1.25	1.5	2.9	0	20.5	.5	72	.01	1428.5	1428.3
X3	10							1434.6	1434.6	
UPSTREAM QUEENSBIDGE ROAD BRIDGE GRADING PLAN ELEV USED PREDOMINATELY.										
X1	344.9	10	460	525	43	43	43			
X2			1	1432.5	1434.6				.95	
BT	10	0	1437	0	423	1434.8	0	479.7	1434.6	1432.5
BT	500.3	1434.7	1432.5	523	1434.8	0	652	1435.4	0	727
BT	1435.5	0	777	1435.3	0	881	1434	0	923	1434.8
BT	0									
GR	1439	47	1438	115	1437	173	1436	225	1434.5	460
GR	1428.5	479.7	1428.5	500.3	1434.5	525	1435	668	1435.6	802

1 19AUG14 08:33:52 PAGE 12

QT	2	1700	340							
ET	345	9.1						1644	1905	
NEW NON DIGITIZED ELEV TO INCLUDE VALLEY CENTER ESTATES GRADING PLAN.										
X1	345	12	1665	1700	217	217	217			
X3	10									
GR	1440.8	1302	1440	1427	1439	1552	1438.3	1665	1435.6	1683
GR	1435.6	1693	1438	1700	1438.2	1734	1438.3	1865	1438.5	1925

KEYSCRSF.OUT

GR	1439	2105	1439.7	2215						
NC	.03	.05	.03	.1	.3					
ET	346	9.1							1339	1435
	NO CHANGE ORIGINAL DIGITIZED DATA USED. JUST UPSTREAM VALLEY CENTER ESTS									
X1	346	43	1339	1435	550	650	600			
X3	10									
GR	1460	0	1457	45	1457	56	1455	88	1454	125
GR	1452	189	1453	252	1453	313	1453	389	1453	456
GR	1451	576	1450	653	1449	709	1450	755	1450	794
GR	1449	835	1448	880	1448	945	1449	1060	1449	1122
GR	1449	1245	1449	1321	1450	1339	1444	1364	1444	1378
GR	1445	1389	1446	1411	1450	1435	1449	1469	1448	1525
GR	1448	1603	1446	1631	1448	1662	1448	1683	1448	1691
GR	1446	1723	1445	1757	1446	1804	1447	1839	1449	1875
GR	1453	1922	1457	1979	1460	2012				

1

19AUG14 08:33:52

PAGE 13

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

0

CCHV= .100 CEHV= .300

*SECNO 300.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1272.20 ELREA= 1271.70

KEYS CREEK RIVER MILES WERE ESTABLISHED BY ASSIGNING ZERO TO ITS CONFLUENCE WITH SAN LUIS REY RIVER. THE VALUES FOR THE SOUTH FORK ARE TABULATED BELOW:

CROSS SECTION NUMBER	RIVER MILE	CROSS SECTION NUMBER	RIVER MILE
300 REACH END	12.140	301	12.185
302	12.198	303	12.240
304	12.256	305 VALLEY CENTER	12.264
306 ROAD BRIDGE	12.272	307	12.282
308	12.316	309	12.356
310	12.404	311	12.431
312	12.518	313	12.600
314	12.648	315	12.676
316	12.718	317	12.850

CREEK BED FROM X-316 TO X-318 REDEFINED TO THE SOUTH OF PREVIOUS SELECTIO
THUS RIVER MILE FOR X-318 TO X-346 ARE .03 MI. TOO GREAT. BECAUSE THE JO
JOB IS COMPLETE, RENUMBERING WILL NOT BE UNDERTAKEN AT THIS TIME. THIS
MESSAGE WILL RECORD ITS OCCURENCE FOR POSSIBLE FUTURE STUDIES.

		KEYSCRSF.OUT
318	13.088	319 COLE GRADE 13.153
320	NOT UTILIZED - - -	321 ROAD DIP 13.161
322	13.170	323 13.207
324	13.282	325 13.362
325.1	DIRT ROAD 13.380	325.3 BRIDGE
326	NOT UTILIZED - - -	327 13.400
328	13.406	329 13.478
330	13.560	331 13.653
332	13.718	333 13.823
334	STABLE ROAD 13.994	335 NOT UTILIZED
336	14.003	337 14.069
338	14.250	339 14.454
340	14.537	340.1 14.674
341	14.796	342 ROUNDTREE RD 14.858
343	NOT UTILIZED 14.864	344 U.S. 72IN.CMP 14.870

1

19AUG14 08:33:52

PAGE 14

344.1	14.880	344.5	14.980
344.8	15.010	QUEENSBRIDGE RD	344.9 U.S.BRIDGE 15.018
345	15.084	346 REACH START	15.160

UNNAMED WASH CONFINED TO ITS STREAMBED THUS CONFLUENCES 2400CFS AT X346.

VALLEY CENTER ESTATES SUBDIVISION BETWEEN X342-X346 HAS BEEN INCLUDED IN THIS LATEST UPDATE OF SOUTH FORK. ALL HEC2 RUNS PRIOR TO MARCH 19 ARE INCORRECT FROM X342 TO X346.

BASIC CHANGE IN COE POLICY TO PERMIT FLOODWAY ENCROACHMENT IN CRITICAL DEPTH SECTIONS BUT RESTRICTING VELOCITY TO 5FPS AT ENCROACHED BOUNDARY.

300.000	10.94	1267.74	1267.01	1267.74	1269.85	2.11	.00	.00	1272.20
6000.0	.0	6000.0	.0	.0	514.9	.0	.0	.0	1271.70
.00	.00	11.65	.00	.000	.030	.000	.000	1256.80	88.24
.005668	0.	0.	0.	0	10	0	.00	90.20	178.44

FLOW DISTRIBUTION FOR SECNO= 300.00 CWSEL= 1267.74

STA= 88. 200.
 PER Q= 100.0
 AREA= 514.9
 VEL= 11.7
 DEPTH= 5.7

*SECNO 301.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.50 ELREA= 1279.50

301.000	12.55	1276.55	1276.55	.00	1279.42	2.86	1.54	.23	1285.50
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6000.0	.0	6000.0	.0	.0	441.9	.0	2.5	.4	1279.50
.00	.00	13.58	.00	.000	.030	.000	.000	1264.00	287.26
.008001	230.	230.	230.	0	8	0	.00	77.35	364.61

KEYSCRSF.OUT

FLOW DISTRIBUTION FOR SECNO= 301.00 CWSEL= 1276.55

STA= 287. 371.
 PER Q= 100.0
 AREA= 441.9
 VEL= 13.6
 DEPTH= 5.7

1

19AUG14 08:33:52

PAGE 15

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 302.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

302.000	13.01	1282.61	1282.61	.00	1286.39	3.79	.52	.28	1279.90
6000.0	54.2	5926.0	19.8	18.3	377.2	9.4	3.2	.6	1281.00
.01	2.96	15.71	2.10	.050	.030	.050	.000	1269.60	233.46
.006790	70.	70.	70.	0	8	0	.00	69.23	302.69

FLOW DISTRIBUTION FOR SECNO= 302.00 CWSEL= 1282.61

STA= 233. 247. 291. 303.
 PER Q= .9 98.8 .3
 AREA= 18.3 377.2 9.4
 VEL= 3.0 15.7 2.1
 DEPTH= 1.4 8.6 .8

*SECNO 303.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1289.90 ELREA= 1290.30

303.000	10.23	1286.33	1284.08	.00	1287.37	1.04	.71	.27	1289.90
---------	-------	---------	---------	-----	---------	------	-----	-----	---------

6000.0	.0	6000.0	.0	.0	732.2	.0	5.5	.9	1290.30
.01	.00	8.19	.00	.000	.030	.000	.000	1276.10	332.16
.002551	140.	180.	200.	4	14	0	.00	120.74	452.90

KEYSCRSF.OUT

FLOW DISTRIBUTION FOR SECNO= 303.00 CWSEL= 1286.33

STA= 332. 465.
 PER Q= 100.0
 AREA= 732.2
 VEL= 8.2
 DEPTH= 6.1

1

19AUG14 08:33:52

PAGE 16

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 304.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1297.30 ELREA= 1296.80

304.000	9.77	1290.07	1290.07	.00	1292.65	2.58	.37	.46	1297.30
6000.0	.0	6000.0	.0	.0	465.5	.0	6.8	1.2	1296.80
.01	.00	12.89	.00	.000	.030	.000	.000	1280.30	301.06
.007794	80.	90.	100.	0	8	0	.00	89.77	390.84

FLOW DISTRIBUTION FOR SECNO= 304.00 CWSEL= 1290.07

STA= 301. 430.
 PER Q= 100.0
 AREA= 465.5
 VEL= 12.9
 DEPTH= 5.2

*SECNO 305.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.15

KEYSCRSF.OUT

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1297.60 ELREA= 1295.80

305.000	11.80	1292.20	1289.15	.00	1292.99	.78	.16	.18	1297.60
6000.0	.0	6000.0	.0	.0	845.0	.0	7.5	1.3	1295.80
.02	.00	7.10	.00	.000	.030	.000	.000	1280.40	230.50
.001692	40.	50.	70.	4	12	0	.00	122.79	353.29

FLOW DISTRIBUTION FOR SECNO= 305.00 CWSEL= 1292.20

1

19AUG14 08:33:52

PAGE 17

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 231. 363.
 PER Q= 100.0
 AREA= 845.0
 VEL= 7.1
 DEPTH= 6.9

*SECNO 306.000

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 13 MIN ELTRD= 1295.70 MAX ELLC= 1293.30

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

4677 BRIDGE DECK DEFINITION ERROR AT STATIONS 300.00 301.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1297.00 ELREA= 1297.00

306.000	10.87	1291.27	1291.27	.00	1296.65	5.38	.10	1.38	1297.00
6000.0	.0	6000.0	.0	.0	322.4	.0	7.9	1.3	1297.00
.02	.00	18.61	.00	.000	.030	.000	.000	1280.40	270.35
.012005	28.	28.	28.	0	12	0	.00	30.31	300.65

FLOW DISTRIBUTION FOR SECNO= 306.00 CWSEL= 1291.27

STA= 270. 301.
 PER Q= 100.0
 AREA= 322.4
 VEL= 18.6
 DEPTH= 10.6

*SECNO 307.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 6.71

1

19AUG14 08:33:52

PAGE 18

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
307.000	16.63	1297.03	1290.31	.00	1297.21	.18	.04	.52	1296.50
6000.0	36.4	4222.8	1740.8	70.5	1080.6	1085.8	9.4	1.6	1288.60
.02	.52	3.91	1.60	.050	.030	.050	.000	1280.40	149.88
.000267	50.	50.	50.	4	12	0	.00	368.20	518.09

FLOW DISTRIBUTION FOR SECNO= 307.00 CWSEL= 1297.03

STA=	150.	169.	187.	218.	316.	339.	391.	468.	507.	513.	518.
PER Q=	.1	.3	.3	70.4	6.5	10.6	9.7	2.2	.0	.0	.0
AREA=	12.7	25.8	32.0	1080.6	193.9	360.4	399.0	126.0	5.6	.8	.8
VEL=	.4	.6	.5	3.9	2.0	1.8	1.5	1.1	.5	.1	.1
DEPTH=	.7	1.4	1.0	11.0	8.4	6.9	5.2	3.2	.9	.2	.2

CCHV= .100 CEHV= .300

*SECNO 308.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1305.10 ELREA= 1299.90

308.000	16.24	1298.94	1298.94	.00	1299.62	.68	.07	.15	1305.10
6000.0	.0	6000.0	.0	.0	909.1	.0	15.4	2.5	1299.90
.03	.00	6.60	.00	.000	.025	.000	.000	1282.70	61.39
.000686	220.	180.	140.	0	5	0	.00	98.62	160.02

FLOW DISTRIBUTION FOR SECNO= 308.00 CWSEL= 1298.94

STA=	61.	162.
PER Q=	100.0	
AREA=	909.1	
VEL=	6.6	
DEPTH=	9.2	

*SECNO 309.000

3301 HV CHANGED MORE THAN HVINS

1

19AUG14 08:33:52

PAGE 19

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.12

309.000	15.17	1299.57	1293.24	.00	1299.73	.16	.06	.05	1290.70
6000.0	847.3	3489.1	1663.6	550.0	889.3	942.6	23.4	3.5	1290.50
.05	1.54	3.92	1.76	.045	.025	.035	.000	1284.40	140.53
.000153	220.	215.	195.	2	11	0	.00	333.36	473.89

FLOW DISTRIBUTION FOR SECNO= 309.00 CWSEL= 1299.57

STA=	141.	173.	191.	223.	294.	331.	370.	397.	434.	469.	474.
PER Q=	2.0	4.0	8.1	58.2	11.3	8.1	3.9	3.5	1.0	.0	
AREA=	124.6	146.2	279.2	889.3	311.7	260.3	145.1	154.5	69.1	1.9	
VEL=	1.0	1.6	1.7	3.9	2.2	1.9	1.6	1.4	.8	.3	
DEPTH=	3.8	8.1	8.7	12.5	8.4	6.7	5.4	4.2	2.0	.4	

*SECNO 310.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .35

310.000	11.83	1299.33	1298.26	.00	1299.94	.61	.07	.14	1295.30
6000.0	591.3	3409.5	1999.2	221.5	433.9	621.4	32.5	5.3	1296.70
.06	2.67	7.86	3.22	.045	.025	.035	.000	1287.50	167.09
.001273	180.	200.	250.	2	14	0	.00	352.16	519.25

FLOW DISTRIBUTION FOR SECNO= 310.00 CWSEL= 1299.33

STA=	167.	188.	225.	233.	243.	300.	357.	395.	432.	509.	519.
PER Q=	.5	4.5	2.1	2.8	56.8	7.5	8.2	10.2	7.4	.0	
AREA=	23.4	110.5	38.3	49.4	433.9	153.1	138.1	154.9	172.1	3.3	
VEL=	1.3	2.4	3.3	3.4	7.9	2.9	3.6	3.9	2.6	.7	
DEPTH=	1.1	3.0	4.8	4.9	7.6	2.7	3.6	4.2	2.2	.3	

*SECNO 311.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1

19AUG14 08:33:52

PAGE 20

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	
311.000	6.54	1300.54	1300.54	.00	1301.69	1.15	.38	.16	1299.60	
6000.0	2386.9	2051.2	1562.0	405.0	165.4	288.5	36.0	6.4	1298.40	
.06	5.89	12.40	5.41	.045	.025	.035	.000	1294.00	189.15	
.007267	150.	160.	130.	0	11	0	.00	360.10	549.25	

FLOW DISTRIBUTION FOR SECNO= 311.00 CWSEL= 1300.54

STA=	189.	248.	296.	332.	374.	408.	450.	489.	549.
PER Q=	11.2	22.6	6.0	34.2	5.2	8.6	9.4	2.9	
AREA=	136.5	191.5	77.0	165.4	59.1	87.7	89.3	52.4	
VEL=	4.9	7.1	4.7	12.4	5.2	5.9	6.3	3.3	
DEPTH=	2.3	4.0	2.1	3.9	1.7	2.1	2.3	.9	

*SECNO 312.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

312.000	7.59	1306.49	1306.49	.00	1307.63	1.14	3.14	.00	1303.60
6000.0	698.7	1550.6	3750.7	170.9	114.1	606.6	45.2	10.4	1303.80
.08	4.09	13.59	6.18	.045	.025	.035	.000	1298.90	224.77
.006546	400.	440.	500.	0	11	0	.00	388.92	613.69

FLOW DISTRIBUTION FOR SECNO= 312.00 CWSEL= 1306.49

STA=	225.	275.	294.	305.	324.	346.	383.	444.	521.	577.	614.
PER Q=	2.8	3.9	1.7	3.2	25.8	9.7	15.4	23.7	12.3	1.4	
AREA=	57.5	47.3	23.5	42.6	114.1	92.1	148.8	211.0	125.4	29.2	
VEL=	2.9	4.9	4.4	4.6	13.6	6.3	6.2	6.7	5.9	2.9	
DEPTH=	1.1	2.5	2.1	2.2	5.2	2.5	2.4	2.7	2.2	.8	

*SECNO 313.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

313.000	11.54	1310.84	1310.84	.00	1312.87	2.03	1.96	.27	1307.90
6000.0	543.1	3793.9	1662.9	123.2	279.4	250.9	51.4	12.6	1307.40
.09	4.41	13.58	6.63	.045	.025	.035	.000	1299.30	70.54
.004841	485.	385.	285.	0	11	0	.00	173.75	244.28

1

19AUG14 08:33:52

PAGE 21

KEYSCRSF.OUT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 313.00 CWSEL= 1310.84

STA=	71.	89.	120.	163.	171.	186.	209.	244.
PER Q=	1.5	7.6	63.2	2.9	6.9	12.6	5.4	
AREA=	29.0	94.2	279.4	26.3	57.6	97.5	69.5	
VEL=	3.1	4.8	13.6	6.5	7.2	7.7	4.6	
DEPTH=	1.6	3.0	6.5	3.3	3.8	4.2	2.0	

*SECNO 314.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

314.000	7.17	1313.87	1313.87	.00	1315.51	1.63	1.19	.04	1310.50
6000.0	867.2	4433.2	699.7	208.1	379.4	182.0	56.0	14.0	1310.60
.10	4.17	11.69	3.84	.045	.025	.035	.000	1306.70	101.83
.003662	285.	285.	285.	0	14	0	.00	250.15	351.97

FLOW DISTRIBUTION FOR SECNO= 314.00 CWSEL= 1313.87

STA=	102.	132.	141.	171.	235.	267.	300.	328.	341.	352.
PER Q=	5.2	3.0	6.3	73.9	5.4	1.1	3.6	1.6	.0	
AREA=	81.1	36.2	90.7	379.4	72.8	28.9	53.9	24.4	2.1	
VEL=	3.8	4.9	4.2	11.7	4.4	2.3	4.0	3.8	.8	
DEPTH=	2.7	4.0	3.0	5.9	2.3	.9	1.9	1.9	.2	

*SECNO 315.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

315.000	6.35	1314.75	1314.75	.00	1316.78	2.03	.61	.12	1312.70
6000.0	139.5	5858.7	1.8	47.3	506.4	1.6	58.3	14.7	1314.30
.10	2.95	11.57	1.12	.045	.025	.035	.000	1308.40	163.16
.005172	140.	140.	180.	0	15	0	.00	156.99	320.15

FLOW DISTRIBUTION FOR SECNO= 315.00 CWSEL= 1314.75

STA=	163.	169.	200.	313.	320.
PER Q=	.1	2.3	97.6	.0	
AREA=	2.5	44.9	506.4	1.6	
VEL=	1.3	3.0	11.6	1.1	
DEPTH=	.4	1.4	4.5	.2	

1

19AUG14 08:33:52

PAGE 22

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	KEYSCRSF.OUT		OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	HV	HL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 316.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

316.000	3.00	1320.00	1320.00	.00	1320.89	.89	1.37	.11	1320.00	
6000.0	4356.6	1638.8	4.6	573.4	218.4	5.1	61.4	16.1	1319.80	
.11	7.60	7.50	.90	.045	.025	.035	.000	1317.00	99.49	
.009496	200.	200.	200.	0	14	0	.00	416.16	515.65	

FLOW DISTRIBUTION FOR SECNO= 316.00 CWSEL= 1320.00

STA=	99.	127.	135.	161.	187.	224.	261.	318.	466.	516.
PER Q=	2.7	2.7	18.3	25.8	16.4	4.8	1.9	27.3	.1	
AREA=	39.9	24.0	122.3	149.6	131.5	63.0	43.0	218.4	5.1	
VEL=	4.1	6.7	9.0	10.3	7.5	4.6	2.7	7.5	.9	
DEPTH=	1.5	3.0	4.7	5.8	3.6	1.7	.8	1.5	.1	

*SECNO 317.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	.0	803.0	TYPE=	1	TARGET=	802.999				
317.000	4.98	1325.58	1325.58	.00	1326.34	.76	3.33	.01	1323.60	
6000.0	2682.0	890.4	2427.6	482.8	68.9	474.9	69.4	20.9	1322.20	
.12	5.55	12.93	5.11	.045	.025	.035	.000	1320.60	172.01	
.008268	340.	380.	480.	0	17	0	.00	619.79	791.80	

FLOW DISTRIBUTION FOR SECNO= 317.00 CWSEL= 1325.58

STA=	172.	250.	340.	361.	386.	404.	450.	519.	579.	618.	790.	792.
PER Q=	5.8	23.2	8.4	7.3	14.8	14.8	9.0	6.7	4.8	5.2	.0	
AREA=	97.0	240.9	73.0	71.9	68.9	120.8	105.4	82.0	57.6	108.9	.2	
VEL=	3.6	5.8	6.9	6.1	12.9	7.3	5.1	4.9	5.0	2.9	1.0	
DEPTH=	1.2	2.7	3.5	2.9	3.8	2.6	1.5	1.4	1.5	.6	.1	

*SECNO 318.000

1

19AUG14 08:33:52

PAGE 23

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

KEYSCRSF.OUT

3470 ENCROACHMENT STATIONS= 1050.0 2667.0 TYPE= 1 TARGET= -1050.000
 318.000 5.32 1334.52 1334.26 .00 1335.15 .64 8.80 .01 1332.80
 6000.0 1596.1 1041.1 3362.8 332.3 100.4 625.8 98.6 36.7 1333.40
 .18 4.80 10.37 5.37 .045 .025 .035 .000 1329.20 1050.00
 .006362 1180. 1180. 1260. 4 5 0 .00 498.63 1548.63

FLOW DISTRIBUTION FOR SECNO= 318.00 CWSEL= 1334.52

STA= 1050. 1073. 1131. 1183. 1213. 1240. 1303. 1344. 1411. 1492. 1536. 1549.
 PER Q= 5.3 13.0 8.3 17.4 3.4 10.5 6.5 16.4 16.6 2.5 .1
 AREA= 65.2 154.6 112.6 100.4 43.6 120.6 76.5 161.8 175.4 44.7 3.3
 VEL= 4.9 5.1 4.4 10.4 4.7 5.2 5.1 6.1 5.7 3.4 1.4
 DEPTH= 2.8 2.7 2.2 3.3 1.6 1.9 1.9 2.4 2.2 1.0 .3

*SECNO 319.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.20 ELREA= 1333.80

319.000 5.34 1336.44 1335.46 .00 1336.73 .29 1.55 .03 1337.20
 6000.0 .0 340.7 5659.3 .0 64.5 1319.0 109.3 41.2 1333.80
 .20 .00 5.28 4.29 .000 .025 .035 .000 1331.10 328.70
 .002823 380. 380. 380. 3 14 0 .00 537.75 866.44

FLOW DISTRIBUTION FOR SECNO= 319.00 CWSEL= 1336.44

STA= 329. 353. 759. 793. 800. 818. 833. 863. 866.
 PER Q= 5.7 79.4 7.1 1.3 2.5 2.2 1.8 .0
 AREA= 64.5 1091.8 94.9 18.1 39.4 34.3 40.2 .2
 VEL= 5.3 4.4 4.5 4.2 3.8 3.9 2.7 .4
 DEPTH= 2.6 2.7 2.8 2.6 2.2 2.3 1.3 .1

1

19AUG14 08:33:52

PAGE 24

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB XK XKOR COFQ RDLEN BWC BWP BAREA SS ELCHU ELCHD

KEYSCRSF.OUT									
1.25	1.22	2.80	.00	8.00	.00	14.00	.00	1331.10	1331.10
*SECNO 321.000									
3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.52									
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape									
EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
4815.97	1336.73	.00	5913.	89.	14.	-8010641.	-999999.00	1332.90	474.
321.000	5.94	1337.04	.00	.00	1337.20	.17	.47	.00	1333.00
6000.0	148.4	254.2	5597.5	77.4	47.9	1766.0	109.8	41.4	1333.00
.20	1.92	5.31	3.17	.045	.025	.035	.000	1331.10	302.74
.001217	15.	15.	15.	2	0	10	.00	637.91	940.65
8930,RDST NOT ON GR CARD 99.56									
8930,RDST NOT ON GR CARD 183.16									
8930,RDST NOT ON GR CARD 260.68									
8930,RDST NOT ON GR CARD 266.76									
8930,RDST NOT ON GR CARD 272.84									
8930,RDST NOT ON GR CARD 488.68									
8930,RDST NOT ON GR CARD 659.68									
8930,RDST NOT ON GR CARD 978.12									
8930,RDST NOT ON GR CARD 1036.64									
FLOW DISTRIBUTION FOR SECNO= 321.00 CWSEL= 1337.04									
STA=	303.	343.	351.	359.	398.	643.	836.	868.	941.
PER Q=	2.5	4.2	2.2	6.6	42.8	35.5	3.3	2.8	
AREA=	77.4	47.9	33.9	124.3	793.2	644.1	74.8	95.8	
VEL=	1.9	5.3	3.9	3.2	3.2	3.3	2.6	1.8	
DEPTH=	1.9	5.9	4.3	3.2	3.2	3.3	2.3	1.3	
CCHV= .100 CEHV= .300									
*SECNO 322.000									
3301 HV CHANGED MORE THAN HVINS									
7185 MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
322.000	6.13	1337.43	1337.43	.00	1338.44	1.01	.09	.25	1335.80
6000.0	148.6	2349.4	3501.9	46.7	208.7	680.8	111.1	41.9	1335.70
.21	3.18	11.26	5.14	.045	.025	.035	.000	1331.30	203.74
.005943	40.	40.	40.	0	8	0	.00	457.36	661.10

1

19AUG14 08:33:52

PAGE 25

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	KEYSCRSF.OUT		OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	HV	HL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 322.00 CWSEL= 1337.43

STA=	204.	221.	240.	293.	371.	435.	499.	573.	607.	625.	661.
PER Q=	.6	1.9	39.2	11.6	9.5	8.3	15.3	9.9	2.9	.9	
AREA=	14.9	31.8	208.7	142.4	116.9	107.3	164.7	92.7	34.7	22.1	
VEL=	2.3	3.6	11.3	4.9	4.9	4.6	5.6	6.4	5.1	2.4	
DEPTH=	.9	1.7	3.9	1.8	1.8	1.7	2.2	2.7	1.9	.6	

*SECNO 323.000

323.000	4.98	1338.88	1338.39	.00	1339.43	.55	.94	.05	1336.40
6000.0	173.0	1107.0	4720.0	58.0	120.5	952.4	115.9	44.0	1336.10
.22	2.98	9.19	4.96	.045	.025	.035	.000	1333.90	87.99
.003819	200.	200.	200.	2	14	0	.00	444.88	532.87

FLOW DISTRIBUTION FOR SECNO= 323.00 CWSEL= 1338.88

STA=	88.	125.	155.	175.	224.	270.	336.	405.	446.	473.	495.	533.
PER Q=	2.9	18.5	4.0	10.8	9.5	14.5	18.7	8.7	5.6	4.0	2.9	
AREA=	58.0	120.5	49.7	129.2	116.7	174.1	206.1	106.1	68.5	51.4	50.5	
VEL=	3.0	9.2	4.8	5.0	4.9	5.0	5.4	4.9	4.9	4.6	3.4	
DEPTH=	1.6	4.0	2.5	2.6	2.5	2.6	3.0	2.6	2.5	2.3	1.3	

*SECNO 324.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1355.80 ELREA= 1340.60

324.000	5.30	1342.70	1342.70	.00	1343.72	1.02	1.93	.14	1355.80
6000.0	.0	2155.3	3844.7	.0	190.7	688.4	125.1	47.8	1340.60
.23	.00	11.30	5.58	.000	.025	.035	.000	1337.40	53.20
.006288	400.	400.	400.	0	8	0	.00	393.48	446.67

FLOW DISTRIBUTION FOR SECNO= 324.00 CWSEL= 1342.70

STA=	53.	103.	160.	201.	252.	292.	351.	412.	444.	447.
PER Q=	35.9	14.7	9.9	10.3	11.0	11.0	5.3	1.8	.0	
AREA=	190.7	142.6	98.5	109.8	104.1	121.1	79.4	32.1	.9	
VEL=	11.3	6.2	6.0	5.6	6.4	5.4	4.0	3.4	1.6	
DEPTH=	3.8	2.5	2.4	2.2	2.6	2.1	1.3	1.0	.4	

1

19AUG14 08:33:52

PAGE 26

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
-------	-------	-------	-------	-------	----	----	----	-------	-------------

Q	QLOB	QCH	QROB	ALOB	ACH	KEYSCRSF.OUT				
TIME	VLOB	VCH	VROB	XNL	XNCH	AROB	VOL	TWA	R-BANK	ELEV
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	XNR	WTN	ELMIN	SSTA	
						ICONT	CORAR	TOPWID	ENDST	

*SECNO 325.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

325.000	7.36	1347.06	1347.06	.00	1348.15	1.09	2.31	.02	1346.90
6000.0	37.1	2877.2	3085.7	14.3	293.7	451.1	133.0	51.6	1344.80
.24	2.58	9.80	6.84	.025	.025	.025	.000	1339.70	86.97
.004832	420.	420.	420.	0	14	0	.00	396.30	483.27

FLOW DISTRIBUTION FOR SECNO= 325.00 CWSEL= 1347.06

STA=	87.	92.	116.	195.	232.	291.	305.	328.	370.	414.	434.	471.	483.
PER Q=	.1	.5	48.0	12.6	22.0	4.9	5.9	2.9	.7	.9	1.4	.0	
AREA=	2.2	12.2	293.7	96.5	162.7	37.2	50.8	42.3	18.0	15.2	26.2	2.2	
VEL=	2.3	2.6	9.8	7.8	8.1	7.9	7.0	4.2	2.3	3.4	3.3	1.3	
DEPTH=	.4	.5	3.7	2.6	2.8	2.7	2.2	1.0	.4	.8	.7	.2	

*SECNO 325.100

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

325.100	7.93	1348.13	1348.13	.00	1349.23	1.09	.29	.00	1345.50
6000.0	574.5	4125.5	1300.0	138.9	422.9	330.3	134.6	52.4	1345.50
.25	4.14	9.75	3.94	.025	.025	.025	.000	1340.20	201.96
.002525	85.	85.	85.	0	8	0	.00	401.32	603.28

FLOW DISTRIBUTION FOR SECNO= 325.10 CWSEL= 1348.13

STA=	202.	261.	302.	372.	465.	600.	603.
PER Q=	2.4	7.2	68.8	13.3	8.3	.1	
AREA=	51.3	87.5	422.9	175.3	153.2	1.9	
VEL=	2.8	5.0	9.8	4.6	3.2	2.0	
DEPTH=	.9	2.1	6.0	1.9	1.1	.6	

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

1

19AUG14 08:33:52

PAGE 27

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
----	----	------	------	-------	-----	-----	-------	----	-------	-------

						KEYSCRSF.OUT			
.00	1.28	2.80	.00	20.00	.00	23.30	.00	1340.20	1340.20

*SECNO 325.300

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.52

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
2666.13	1349.23	.00	5748.	254.	23.	76.	1344.00	1345.70	367.
325.300	9.87	1350.27	.00	.00	1350.51	.24	1.28	.00	1340.40
6000.0	1657.3	1023.9	3318.8	539.0	187.5	896.4	135.5	52.7	1340.40
.25	3.07	5.46	3.70	.025	.025	.025	.000	1340.40	230.02
.000399	30.	30.	30.	2	0	9	.00	395.78	635.03

8930,RDST NOT ON GR CARD 411.00
FLOW DISTRIBUTION FOR SECNO= 325.30 CWSEL= 1350.27

STA=	230.	303.	370.	390.	391.	410.	500.	568.	635.
PER Q=	3.2	14.3	9.6	.5	17.1	45.2	8.7	1.4	
AREA=	114.2	279.3	136.4	9.1	187.5	627.2	208.7	60.5	
VEL=	1.7	3.1	4.2	3.5	5.5	4.3	2.5	1.4	
DEPTH=	1.6	4.2	6.8	9.1	9.9	7.0	3.1	.9	

*SECNO 327.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

327.000	9.64	1350.74	1350.74	.00	1352.27	1.52	.07	.39	1346.50
5900.0	1080.0	4288.8	531.2	184.9	386.1	110.2	137.6	53.3	1348.00
.25	5.84	11.11	4.82	.025	.025	.025	.000	1341.10	277.60
.003218	80.	80.	80.	0	5	0	.00	258.88	536.48

1

19AUG14 08:33:52

PAGE 28

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA

SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	KEYSCRSF.OUT ICONT	CORAR	TOPWID	ENDST
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FLOW DISTRIBUTION FOR SECNO= 327.00 CWSEL= 1350.74

STA=	278.	344.	382.	445.	471.	500.	536.		
PER Q=	4.1	14.2	72.7	6.1	2.5	.3			
AREA=	67.4	117.6	386.1	60.9	37.5	11.7			
VEL=	3.6	7.2	11.1	5.9	4.0	1.6			
DEPTH=	1.0	3.1	6.1	2.3	1.3	.3			

*SECNO 328.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

328.000	10.58	1351.68	1351.68	.00	1352.90	1.22	.12	.03	1350.10
5900.0	273.7	4398.9	1227.4	86.3	442.6	273.4	138.3	53.6	1348.40
.25	3.17	9.94	4.49	.025	.025	.025	.000	1341.10	246.14
.002701	40.	40.	40.	0	8	0	.00	365.26	611.40

FLOW DISTRIBUTION FOR SECNO= 328.00 CWSEL= 1351.68

STA=	246.	311.	347.	421.	448.	477.	500.	549.	581.	596.	611.
PER Q=	1.4	3.2	74.6	7.3	5.0	3.5	3.4	1.0	.5	.1	
AREA=	36.5	49.8	442.6	72.5	59.0	43.3	58.0	23.5	11.8	5.3	
VEL=	2.3	3.8	9.9	6.0	5.0	4.7	3.5	2.5	2.6	1.5	
DEPTH=	.6	1.4	6.0	2.7	2.0	1.9	1.2	.7	.8	.3	

CCHV= .100 CEHV= .300

*SECNO 329.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

329.000	8.42	1357.32	1357.32	.00	1358.82	1.50	1.19	.09	1352.80
5900.0	919.0	4721.9	259.1	196.6	438.6	85.6	145.3	56.6	1355.60
.27	4.67	10.77	3.03	.040	.025	.025	.000	1348.90	351.62
.003289	400.	400.	400.	0	15	0	.00	291.33	642.94

FLOW DISTRIBUTION FOR SECNO= 329.00 CWSEL= 1357.32

STA=	352.	383.	405.	425.	502.	519.	547.	602.	643.
PER Q=	1.6	5.7	8.3	80.0	1.8	1.4	1.1	.1	
AREA=	38.0	72.0	86.5	438.6	24.2	25.9	28.9	6.7	
VEL=	2.4	4.7	5.7	10.8	4.3	3.2	2.2	1.0	
DEPTH=	1.2	3.3	4.3	5.7	1.4	.9	.5	.2	

1

19AUG14 08:33:52

PAGE 29

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 330.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

330.000	5.18	1361.48	1361.48	.00	1362.90	1.42	1.79	.01	1359.00
5900.0	254.6	5587.3	58.2	77.1	570.7	22.5	152.5	59.5	1360.70
.28	3.30	9.79	2.59	.040	.025	.025	.000	1356.30	724.24
.004912	450.	450.	450.	0	14	0	.00	277.21	1001.45

FLOW DISTRIBUTION FOR SECNO= 330.00 CWSEL= 1361.48

STA=	724.	742.	789.	947.	971.	1001.
PER Q=	.1	4.2	94.7	.8	.2	
AREA=	5.2	71.9	570.7	15.1	7.3	
VEL=	1.1	3.5	9.8	3.1	1.6	
DEPTH=	.3	1.5	3.6	.6	.2	

*SECNO 331.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

331.000	4.96	1366.06	1366.06	.00	1366.89	.83	2.30	.06	1364.30
5900.0	138.3	2172.2	3589.5	61.0	240.4	583.3	161.3	64.0	1363.80
.30	2.27	9.04	6.15	.040	.025	.025	.000	1361.10	264.89
.004404	550.	500.	480.	0	10	0	.00	503.31	768.19

FLOW DISTRIBUTION FOR SECNO= 331.00 CWSEL= 1366.06

STA=	265.	334.	403.	444.	553.	710.	768.
PER Q=	2.3	36.8	13.2	31.7	15.5	.5	
AREA=	61.0	240.4	105.1	263.2	198.5	16.4	
VEL=	2.3	9.0	7.4	7.1	4.6	1.7	
DEPTH=	.9	3.5	2.6	2.4	1.3	.3	

CCHV= .100 CEHV= .300

*SECNO 332.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1

19AUG14 08:33:52

PAGE 30

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

KEYSCRSF.OUT
 3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1375.00 ELREA= 1366.10

332.000	4.87	1368.37	1368.37	.00	1369.16	.79	1.62	.00	1375.00
5900.0	.0	1691.9	4208.1	.0	200.7	645.8	167.9	67.7	1366.10
.31	.00	8.43	6.52	.000	.030	.025	.000	1363.50	115.73
.005536	330.	330.	330.	0	6	0	.00	469.16	584.89

FLOW DISTRIBUTION FOR SECNO= 332.00 CWSEL= 1368.37

STA=	116.	173.	249.	317.	493.	585.
PER Q=	28.7	22.3	18.5	28.0	2.4	
AREA=	200.7	172.6	147.6	276.4	49.2	
VEL=	8.4	7.6	7.4	6.0	2.9	
DEPTH=	3.5	2.3	2.2	1.6	.5	

*SECNO 333.000

3470 ENCROACHMENT STATIONS= .0 594.0 TYPE= 1 TARGET= 593.999

333.000	4.08	1371.28	1370.72	.00	1371.81	.54	2.63	.02	1369.40
5900.0	3826.7	1368.7	704.6	683.1	200.0	132.4	179.0	73.0	1369.40
.34	5.60	6.85	5.32	.035	.030	.025	.000	1367.20	162.40
.004641	550.	515.	500.	1	19	0	.00	430.53	592.92

FLOW DISTRIBUTION FOR SECNO= 333.00 CWSEL= 1371.28

STA=	162.	192.	225.	295.	328.	434.	503.	587.	593.
PER Q=	3.0	13.0	26.2	7.1	15.6	23.2	11.8	.2	
AREA=	45.7	115.0	236.9	80.4	205.1	200.0	128.9	3.5	
VEL=	3.8	6.6	6.5	5.2	4.5	6.8	5.4	2.8	
DEPTH=	1.5	3.5	3.4	2.4	1.9	2.9	1.5	.6	

*SECNO 334.000

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 1550.0 TYPE= 1 TARGET= 1549.999

334.000	7.95	1380.35	1380.35	.00	1381.00	.65	3.77	.03	1378.80
5900.0	252.0	1902.9	3745.1	117.8	202.2	819.5	201.3	85.8	1377.80
.38	2.14	9.41	4.57	.035	.030	.025	.000	1372.40	742.90
.003808	900.	900.	900.	0	16	0	.00	807.10	1550.00

1

19AUG14 08:33:52

PAGE 31

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

KEYSCRSF.OUT

FLOW DISTRIBUTION FOR SECNO= 334.00 CWSEL= 1380.35

STA=	743.	881.	913.	945.	981.	1052.	1117.	1247.	1427.	1550.
PER Q=	3.1	1.2	32.3	8.0	8.2	4.4	9.4	19.5	14.1	
AREA=	88.8	29.1	202.2	77.2	102.6	68.0	142.4	251.2	178.0	
VEL=	2.0	2.5	9.4	6.1	4.7	3.8	3.9	4.6	4.7	
DEPTH=	.6	.9	6.3	2.1	1.4	1.0	1.1	1.4	1.4	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.34	2.80	.00	8.50	.50	41.60	.50	1372.40	1373.70

*SECNO 336.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.97

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1798.89	1395.57	.06	5486.	457.	42.	85.	1379.70	1381.20	901.

3470 ENCROACHMENT STATIONS= .0 1600.0 TYPE= 1 TARGET= 1599.999
 LATEST BRIDGE MODELING WITH ROB STATIONS ON EAST SIDE OF STABLE ROAD.

336.000	8.98	1382.68	.00	.00	1382.86	.18	1.86	.00	1379.50
5900.0	1366.8	1500.3	3032.9	566.8	292.2	1109.2	203.1	86.8	1381.20
.38	2.41	5.13	2.73	.035	.030	.025	.000	1373.70	643.88
.000984	50.	50.	50.	2	0	9	.00	956.12	1600.00

8930,RDST NOT ON GR CARD 780.00
 8930,RDST NOT ON GR CARD 1031.00
 8930,RDST NOT ON GR CARD 1400.00

FLOW DISTRIBUTION FOR SECNO= 336.00 CWSEL= 1382.68

STA=	644.	668.	733.	788.	874.	911.	957.	1025.	1172.	1307.	1500.	1600.
PER Q=	.1	2.1	5.6	10.7	4.7	25.4	4.4	11.6	14.4	17.5	3.6	
AREA=	7.0	79.9	136.3	239.0	104.7	292.2	104.0	254.1	280.6	362.6	107.9	
VEL=	.6	1.5	2.4	2.6	2.7	5.1	2.5	2.7	3.0	2.8	2.0	
DEPTH=	.3	1.2	2.5	2.8	2.8	6.4	1.5	1.7	2.1	1.9	1.1	

1

19AUG14 08:33:52

PAGE 32

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300

*SECNO 337.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

ROB STATIONS TIE INTO HILL TOP. DOES NOT CROSS STABLE ROAD

337.000	4.83	1384.63	1384.63	.00	1385.25	.62	.39	.13	1382.10
3000.0	1042.8	660.5	1296.7	265.5	65.4	242.0	210.4	90.6	1382.30
.39	3.93	10.10	5.36	.040	.025	.025	.000	1379.80	1248.37
.005408	350.	320.	170.	0	11	0	.00	430.38	1678.75

FLOW DISTRIBUTION FOR SECNO= 337.00 CWSEL= 1384.63

STA=	1248.	1264.	1345.	1381.	1428.	1446.	1491.	1640.	1679.
PER Q=	.1	8.4	9.4	16.9	22.0	22.2	21.0	.1	
AREA=	3.4	87.4	67.6	107.1	65.4	93.6	145.9	2.5	
VEL=	1.0	2.9	4.2	4.7	10.1	7.1	4.3	.7	
DEPTH=	.2	1.1	1.9	2.3	3.6	2.1	1.0	.1	

*SECNO 338.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

338.000	2.27	1393.27	1393.27	.00	1393.89	.62	5.30	.00	1393.00
3000.0	1.7	1749.0	1249.3	2.1	247.2	244.1	220.9	98.9	1392.20
.43	.82	7.08	5.12	.040	.025	.025	.000	1391.00	1931.77
.007095	860.	860.	860.	0	14	0	.00	412.06	2343.83

FLOW DISTRIBUTION FOR SECNO= 338.00 CWSEL= 1393.27

STA=	1932.	1947.	2094.	2151.	2217.	2344.
PER Q=	.1	58.3	11.5	17.5	12.7	
AREA=	2.1	247.2	63.8	87.1	93.2	
VEL=	.8	7.1	5.4	6.0	4.1	
DEPTH=	.1	1.7	1.1	1.3	.7	

*SECNO 339.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 2106.0 TYPE= 1 TARGET= 2105.999

1

19AUG14 08:33:52

PAGE 33

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

KEYSCRSF.OUT

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1402.30 ELREA= 1404.60

339.000	2.96	1402.36	1402.36	.00	1402.86	.51	8.44	.01	1402.30
3000.0	2766.3	233.7	.0	530.3	23.8	.0	230.5	107.2	1404.60
.47	5.22	9.80	.00	.040	.025	.000	1399.40	1594.72	
.017327	800.	800.	800.	0	16	0	.00	497.24	2091.96

FLOW DISTRIBUTION FOR SECNO= 339.00 CWSEL= 1402.36

STA=	1595.	1700.	2076.	2098.
PER Q=	19.5	72.7	7.8	
AREA=	113.6	416.7	23.8	
VEL=	5.1	5.2	9.8	
DEPTH=	1.1	1.1	1.5	

CCHV= .100 CEHV= .300

*SECNO 340.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 1965.0 TYPE= 1 TARGET= 1964.999

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1406.40 ELREA= 1408.50

340.000	5.53	1406.43	1406.43	.00	1406.75	.32	2.86	.02	1406.40
2350.0	1924.4	425.6	.0	518.3	59.3	.0	236.4	112.2	1408.50
.50	3.71	7.18	.00	.025	.020	.000	.000	1400.90	1459.33
.002816	450.	450.	450.	0	21	0	.00	461.04	1920.37

FLOW DISTRIBUTION FOR SECNO= 340.00 CWSEL= 1406.43

STA=	1459.	1524.	1576.	1646.	1712.	1816.	1873.	1899.	1925.
PER Q=	3.5	9.2	10.7	13.4	31.6	12.3	1.2	18.1	
AREA=	37.2	61.4	75.7	84.6	169.7	75.9	13.8	59.3	
VEL=	2.2	3.5	3.3	3.7	4.4	3.8	2.1	7.2	
DEPTH=	.6	1.2	1.1	1.3	1.6	1.3	.5	2.8	

1

19AUG14 08:33:52

PAGE 34

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 340.100

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 1554.0 2419.0 TYPE= 1 TARGET= 865.000

ELENCL= 1415.10 ELENCR= 1415.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1414.80 ELREA= 1418.20

340.100	7.41	1414.91	1414.91	.00	1414.97	.06	.62	.03	1414.80
2350.0	2085.2	264.8	.0	1137.4	83.4	.0	251.0	121.6	1418.20
.60	1.83	3.17	.00	.025	.020	.000	.000	1407.50	1686.44
.000417	710.	710.	710.	0	22	0	.00	693.81	2380.25

FLOW DISTRIBUTION FOR SECNO= 340.10 CWSEL= 1414.91

STA=	1686.	1932.	1992.	2338.	2357.	2392.
PER Q=	15.0	16.3	57.2	.3	11.3	
AREA=	271.2	162.5	695.0	8.7	83.4	
VEL=	1.3	2.4	1.9	.7	3.2	
DEPTH=	1.1	2.7	2.0	.5	3.6	

*SECNO 341.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 1753.0 TYPE= 1 TARGET= 1752.999

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1420.70 ELREA= 1422.80

341.000	6.58	1421.48	1421.48	.00	1422.11	.63	.58	.17	1420.70
2350.0	1541.1	808.9	.0	354.8	89.1	.0	263.1	128.9	1422.80
.63	4.34	9.07	.00	.025	.020	.000	.000	1414.90	1382.06
.003408	630.	630.	630.	0	9	0	.00	318.23	1700.29

FLOW DISTRIBUTION FOR SECNO= 341.00 CWSEL= 1421.48

1

19AUG14 08:33:52

PAGE 35

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

STA=	1382.	1415.	1487.	1555.	1643.	1674.	1714.
PER Q=	.8	7.7	11.3	35.4	10.3	34.4	
AREA=	11.1	59.4	73.1	160.7	50.4	89.1	
VEL=	1.7	3.1	3.6	5.2	4.8	9.1	
DEPTH=	.3	.8	1.1	1.8	1.6	3.4	

CCHV= .100 CEHV= .300

*SECNO 342.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 1792.0 TYPE= 1 TARGET= 1791.999

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1422.70 ELREA= 1426.60

342.000	4.94	1423.94	1423.94	.00	1424.51	.58	1.86	.01	1422.70
1920.0	1597.1	322.9	.0	282.8	40.9	.0	266.0	131.1	1426.60
.64	5.65	7.90	.00	.035	.035	.000	.000	1419.00	1482.66
.013440	330.	330.	330.	0	17	0	.00	269.03	1751.69

FLOW DISTRIBUTION FOR SECNO= 342.00 CWSL= 1423.94

STA=	1483.	1537.	1620.	1736.	1763.
PER Q=	3.3	28.4	51.5	16.8	
AREA=	22.8	98.8	161.2	40.9	
VEL=	2.8	5.5	6.1	7.9	
DEPTH=	.4	1.2	1.4	2.6	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	3.00	.00	3.20	.00	25.00	.01	1419.40	1419.00

*SECNO 344.000

6070, LOW FLOW BY NORMAL BRIDGE

EGPRS= .000 EGLWC= 1424.915 ELLC= 1425.400 PCWSE= 1423.940 ELTRD= 1424.200

3265 DIVIDED FLOW

1

19AUG14 08:33:52

PAGE 36

SECNO	DEPTH	CWSL	CRISW	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XLNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3370 NORMAL BRIDGE, NRD= 28 MIN ELTRD= 1424.20 MAX ELLC= 1425.40

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

NEW GROUND ELEVATIONS INCLUDE VALLEY CENTER ESTATES NEW ROUNDTREE ROAD
 AND THE NEW 72INCH CMP FOR SOUTH FORK. GROUNDING PLAN ELEVATIONS USED.

344.000	6.02	1425.82	1425.82	.00	1426.42	.60	.99	.01	1422.40
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						KEYSCRSF.OUT				
1920.0	1731.0	189.0	.0	282.1	26.8	.0	266.4	131.6	1422.40	
.65	6.14	7.05	.00	.035	.035	.000	.000	1419.80	1409.32	
.016932	66.	66.	66.	0	10	0	-36.49	294.89	1734.88	

FLOW DISTRIBUTION FOR SECNO= 344.00 CWSEL= 1425.82

STA=	1409.	1442.	1467.	1492.	1517.	1627.	1642.	1657.	1672.	1687.	1696.	1734.
PER Q=	.6	2.8	5.1	6.8	50.0	9.6	8.2	5.2	1.9	.1	9.8	
AREA=	5.4	14.1	20.4	24.1	144.7	24.2	22.0	16.7	9.2	1.2	26.8	
VEL=	2.0	3.8	4.8	5.4	6.6	7.6	7.1	5.9	4.0	1.6	7.0	
DEPTH=	.2	.6	.8	1.0	1.3	1.6	1.5	1.1	.6	.1	4.5	

*SECNO 344.100

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.06

NEW SECTION TO DEFINE NEW CULVERT AND REGRADED CREEKBED. GRADING PLAN EL									
344.100	5.34	1426.54	1426.12	.00	1426.85	.31	.40	.03	1425.00
1920.0	1115.3	798.9	5.8	318.7	144.6	2.4	266.9	131.9	1425.00
.65	3.50	5.52	2.45	.035	.035	.030	.000	1421.20	1476.17
.004007	55.	55.	55.	2	14	0	.00	269.91	1746.08

FLOW DISTRIBUTION FOR SECNO= 344.10 CWSEL= 1426.54

STA=	1476.	1484.	1517.	1695.	1743.	1746.
PER Q=	.3	6.6	51.2	41.6	.3	
AREA=	3.7	40.9	274.1	144.6	2.4	
VEL=	1.6	3.1	3.6	5.5	2.4	
DEPTH=	.5	1.2	1.5	3.0	.8	

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19AUG14 08:33:52

PAGE 37

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 344.500

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

NEW SECTION TO DEFINE VALLEY CENTER ESTATES GRADING PLAN.NOT DIGITIZED									
344.500	4.21	1431.41	1431.41	.00	1432.18	.77	2.25	.14	1429.20
1800.0	94.3	1195.6	510.2	26.1	148.3	110.9	270.9	134.1	1429.20
.67	3.61	8.06	4.60	.035	.035	.030	.000	1427.20	6.34
.006371	440.	450.	510.	0	14	0	.00	152.78	159.12

FLOW DISTRIBUTION FOR SECNO= 344.50 CWSEL= 1431.41

STA= 6. 30. 70. 158. 159.
 PER Q= 5.2 66.4 28.3 .0
 AREA= 26.1 148.3 110.7 .2
 VEL= 3.6 8.1 4.6 1.1
 DEPTH= 1.1 3.7 1.3 .2

*SECNO 344.800

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

DOWNSTREAM QUEENSBIDGE ROAD BRIDGE-NEW FOR VALEY CENTER ESTATES SUBDIV

344.800	5.69	1433.99	1433.99	.00	1434.69	.70	.76	.01	1433.50
1765.0	295.3	1469.7	.0	134.0	201.5	.0	271.8	134.8	1434.00
.67	2.20	7.29	.00	.035	.035	.000	.000	1428.30	304.95
.004849	148.	142.	98.	0	15	0	.00	265.02	569.97

FLOW DISTRIBUTION FOR SECNO= 344.80 CWSEL= 1433.99

STA= 305. 408. 520. 570.
 PER Q= 5.4 11.4 83.3
 AREA= 51.1 83.0 201.5
 VEL= 1.9 2.4 7.3
 DEPTH= .5 .7 4.0

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19AUG14 08:33:52

PAGE 38

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1433.71 , NOT 1433.99 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	2.90	.00	20.50	.50	72.00	.01	1428.50	1428.30

*SECNO 344.900

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.67

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1447.99	1436.51	.00	1146.	620.	72.	80.	1432.50	1434.60	642.

KEYSCRSF.OUT

UPSTREAM QUEENSBIDGE ROAD BRIDGE GRADING PLAN ELEV USED PREDOMINATELY.

344.900	6.87	1435.37	.00	.00	1435.72	.34	1.02	.00	1434.50
1765.0	61.1	1558.4	145.4	60.0	313.7	105.1	272.2	135.1	1434.50
.68	1.02	4.97	1.38	.035	.035	.030	.000	1428.50	322.90
.001735	43.	43.	43.	3	0	7	.00	428.88	751.78

8930,RDST NOT ON GR CARD 401.85
 8930,RDST NOT ON GR CARD 475.28
 8930,RDST NOT ON GR CARD 496.85
 8930,RDST NOT ON GR CARD 619.40
 8930,RDST NOT ON GR CARD 690.65
 FLOW DISTRIBUTION FOR SECNO= 344.90 CWSEL= 1435.37

STA= 323. 460. 525. 668. 752.
 PER Q= 3.5 88.3 7.6 .6
 AREA= 60.0 313.7 89.4 15.7
 VEL= 1.0 5.0 1.5 .7
 DEPTH= .4 4.8 .6 .2

*SECNO 345.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 1644.0 1905.0 TYPE= 1 TARGET= 261.000
 NEW NON DIGITIZED ELEV TO INCLUDE VALLEY CENTER ESTATES GRADING PLAN.

345.000	3.61	1439.21	1439.21	.00	1439.79	.58	.72	.07	1438.30
1700.0	63.0	723.4	913.6	17.8	93.8	197.8	274.2	136.8	1438.00
.69	3.54	7.72	4.62	.035	.035	.030	.000	1435.60	1644.00
.009080	217.	217.	217.	0	11	0	.00	261.00	1905.00

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19AUG14 08:33:52

PAGE 39

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 345.00 CWSEL= 1439.21

STA= 1644. 1665. 1700. 1734. 1865. 1905.
 PER Q= 3.7 42.6 11.3 34.2 8.3
 AREA= 17.8 93.8 37.8 126.2 33.9
 VEL= 3.5 7.7 5.1 4.6 4.2
 DEPTH= .8 2.7 1.1 1.0 .8

CCHV= .100 CEHV= .300
 *SECNO 346.000

3301 HV CHANGED MORE THAN HVINS

KEYSCRSF.OUT

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 1339.0 1435.0 TYPE= 1 TARGET= 96.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1450.00 ELREA= 100000.00

NO CHANGE ORIGNAL DIGITIZED DATA USED. JUST UPSTREAM VALLEY CENTER ESTS

346.000	3.90	1447.90	1447.90	.00	1449.18	1.28	5.82	.21	1450.00
1700.0	.0	1700.0	.0	.0	187.5	.0	277.7	139.3	100000.00
.71	.00	9.07	.00	.000	.030	.000	.000	1444.00	1347.74
.009937	550.	600.	650.	0	8	0	.00	74.67	1422.41

FLOW DISTRIBUTION FOR SECNO= 346.00 CWSEL= 1447.90

STA= 1348. 1435.
PER Q= 100.0
AREA= 187.5
VEL= 9.1
DEPTH= 2.5

1

CROSS SECTION 300.00
STREAM IRF WITH UNNAMED WASH CO
DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1256.8 1258.8 1260.8 1262.8 1264.8 1266.8 1268.8 1270.8 1272.8 1274.8 1276.8

STA-FEET

75.	.	.	.	.	.	.	.	.	X	.	.	.	.
5 80.	.	.	.	.	.	.	.	.	X	.	.	.	BANK.
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90.	.	.	.	.	.	X	E	.	.	.	.	.	.
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6 105.	.	X	.	.	.	.C	W	E	.	.	.	.	.
110.	.	X	.	.	.	.C	W	E	.	.	.	.	.
115.	X	.	.	.	.	.C	W	E	.	.	.	.	.
7 120.	X	.	.	.	.	.C	W	E	.	.	.	.	.
125.	X	.	.	.	.	.C	W	E	.	.	.	.	.
130.	.	X.	.	.	.	.C	W	E	.	.	.	.	.
135.	.	.	X	.	.	.C	W	E	.	.	.	.	.
140.	.	.	.	X	.	.C	W	E	.	.	.	.	.
8 145.	.	.	.	X	.	.C	W	E	.	.	.	.	.
150.	.	.	.	.	X.	.C	W	E	.	.	.	.	.
155.	.	.	.	.	X	.C	W	E	.	.	.	.	.
160.	.	.	.	.	X	.C	W	E	.	.	.	.	.

						KEYSCRSF.OUT														
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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)											
1295.00	.00	1291.40	25.00	1287.90	38.00	1272.20	78.00	1260.00	106.00		
1256.80	119.00	1261.60	145.00	1271.70	200.00	1272.30	254.00	1266.00	285.00		
1266.70	294.00	1280.40	328.00	1290.90	361.00	1293.00	374.00	1291.20	390.00		
1292.30	414.00	1295.00	425.00								

1

CROSS SECTION 301.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1264.0 1266.0 1268.0 1270.0 1272.0 1274.0 1276.0 1278.0 1280.0 1282.0 1284.0

STA-FEET

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360.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

KEYSCRSF.OUT
 365. X. W . E
 19 370. X BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1310.00	.00	1308.40	13.00	1309.90	41.00	1311.10	50.00	1309.00	57.00
1305.40	90.00	1305.40	116.00	1299.60	140.00	1300.40	177.00	1299.70	183.00
1293.30	200.00	1285.50	243.00	1275.80	291.00	1272.10	311.00	1264.00	327.00
1268.10	335.00	1268.90	348.00	1279.50	371.00	1281.20	395.00	1287.60	437.00
1289.20	474.00	1293.20	548.00	1295.00	590.00				

1
 CROSS SECTION 302.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1269.6 1271.6 1273.6 1275.6 1277.6 1279.6 1281.6 1283.6 1285.6 1287.6 1289.6

STA-FEET

8	220. .	.	.	.	.	.	.	.	X .	E	.	.	.
	222. .	.	.	.	.	.	.	.	X	E	.	.	.
	224. .	.	.	.	.	.	.	.	X	E	.	.	.
	226. .	.	.	.	.	.	.	.	X	E	.	.	.
	228. .	.	.	.	.	.	.	.	X	E	.	.	.
	230. .	.	.	.	.	.	.	.	X	E	.	.	.
	232. .	.	.	.	.	.	.	.	X	E	.	.	.
	234. .	.	.	.	.	.	.	.	XW	E	.	.	.
	236. .	.	.	.	.	.	.	.	X W	E	.	.	.
	238. .	.	.	.	.	.	.	.	X W	E	.	.	.
	240. .	.	.	.	.	.	.	.	X W	E	.	.	.
	242. .	.	.	.	.	.	.	.	X W	E	.	.	.
	244. .	.	.	.	.	.	.	.	X W	E	.	.	.
9	246. .	.	.	.	.	.	.	.	X W	E	.	.	BANK.
	248. .	.	.	.	.	.	.	.	X W	E	.	.	.
	250. .	.	.	.	.	.	.	.	X W	E	.	.	.
	252. .	.	.	.	.	.	.	.	X W	E	.	.	.
	254. .	.	.	.	.	.	.	.	X W	E	.	.	.
10	256. .	.	.	.	.	.	.	.	X W	E	.	.	.
	258. .	.	.	.	.	.	.	.	X W	E	.	.	.
	260. .	.	.	.	.	.	.	.	X W	E	.	.	.
	262. .	.	.	.	.	.	.	.	X W	E	.	.	.
	264. .	.	.	.	.	.	.	.	X W	E	.	.	.
	266. .	.	.	.	.	.	.	.	X W	E	.	.	.
	268. .	.	.	.	.	.	.	.	X W	E	.	.	.
11	270. X	.	.	.	.	.	.	.	X W	E	.	.	.
	272. .	.	.	.	.	.	.	.	X W	E	.	.	.
	274. .	.	.	.	.	.	.	.	X W	E	.	.	.
	276. .	.	.	.	.	.	.	.	X W	E	.	.	.
	278. .	.	.	.	.	.	.	.	X W	E	.	.	.

```

                                KEYSCRSF.OUT
280. . . . X. . . . W . . . E . . . .
282. . . . . X . . . W . . . E . . . .
284. . . . . . X . . W . . . E . . . .
286. . . . . . . X . W . . . E . . . .
288. . . . . . . .X . W . . . E . . . .
12 290. . . . . . . X . W . . . E . . . . BANK.
292. . . . . . . X . W . . . E . . . .
294. . . . . . . .X . W . . . E . . . .
296. . . . . . . .X . W . . . E . . . .
298. . . . . . . X W . . . E . . . .
300. . . . . . . XW . . . E . . . .
302. . . . . . . X . . . E . . . .
304. . . . . . . .X . . . E . . . .
306. . . . . . . .X . . . E . . . .
308. . . . . . . .X . . . E . . . .
310. . . . . . . .X . . . E . . . .
312. . . . . . . .X . . . E . . . .
314. . . . . . . .X . . . E . . . .
316. . . . . . . .X . . . E . . . .
318. . . . . . . .X . . . E . . . .
320. . . . . . . .X . . . E . . . .
13 322. . . . . . . .X . . . E . . . .

```

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1310.00	.00	1303.40	53.00	1299.30	90.00	1300.00	139.00	1299.30	147.00
1292.80	166.00	1285.10	221.00	1279.90	247.00	1272.50	256.00	1269.60	271.00
1281.00	291.00	1285.40	323.00	1290.00	366.00	1291.30	414.00	1292.00	467.00
1295.00	514.00								

1

CROSS SECTION 303.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1276.1 1278.1 1280.1 1282.1 1284.1 1286.1 1288.1 1290.1 1292.1 1294.1 1296.1

STA-FEET

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11 315. . . . . . . X. . . . . BANK.
320. . . . . . . X . . . . .
325. . . . . . . X . . . . .
330. . . . . . . X E . . . . .
12 335. . . . . . X .W E . . . . .
340. . . . . . X .W E . . . . .
345. . . . . . XC .W E . . . . .
350. . . . . . X C .W E . . . . .
355. . . . . . X C .W E . . . . .
360. . . . . . X C .W E . . . . .
13 365. . . . . . X C .W E . . . . .

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										KEYSCRSF.OUT				
370.	.		.X	.	.	C	.W	E	.	.	.	.	.	.
375.	.	X	.	.	.	C	.W	E	.	.	.	.	.	.
14 380.	X	.	.	.	.	C	.W	E	.	.	.	.	.	.
385.	.	X	.	.	.	C	.W	E	.	.	.	.	.	.
390.	.		X	.	.	C	.W	E	.	.	.	.	.	.
395.	.		X.	.	.	C	.W	E	.	.	.	.	.	.
15 400.	.		.	X	.	C	.W	E	.	.	.	.	.	.
405.	.		.	X	.	C	.W	E	.	.	.	.	.	.
410.	.		.	X	.	C	.W	E	.	.	.	.	.	.
415.	.		X	.	.	C	.W	E	.	.	.	.	.	.
420.	.		X	.	.	C	.W	E	.	.	.	.	.	.
16 425.	.		X	.	.	C	.W	E	.	.	.	.	.	.
430.	.		.	X	.	C	.W	E	.	.	.	.	.	.
435.	.		.	.	X	C	.W	E	.	.	.	.	.	.
440.	.		.	.	.	X	.W	E	.	.	.	.	.	.
445.	.		.	.	.	X	.W	E	.	.	.	.	.	.
450.	.		.	.	.		X .W	E	.	.	.	.	.	.
455.	.		.	.	.		.	X	.	.	.	.	.	.
460.	.		.	.	.		.	.	X	.	.	.	.	.
17 465.	.		.	.	.		.	.	.	X	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1315.00	.00	1309.20	41.00	1303.20	77.00	1299.30	134.00	1298.80	171.00
1298.40	212.00	1298.40	239.00	1293.00	266.00	1289.20	306.00	1289.90	316.00
1285.70	335.00	1279.90	367.00	1276.10	379.00	1278.80	401.00	1277.50	426.00
1290.30	465.00	1289.90	484.00	1295.90	566.00	1302.90	626.00	1305.00	653.00

1

CROSS SECTION 304.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1280.3 1282.3 1284.3 1286.3 1288.3 1290.3 1292.3 1294.3 1296.3 1298.3 1300.3

STA-FEET

11 282.	.	.	.	.	.	.	.	.	.	X	.	.	BANK.
284.	.	.	.	.	.	.	.	.	.	.X	.	.	.
286.	.	.	.	.	.	.	.	.	X	.	.	.	.
288.	.	.	.	.	.	.	.	.	X	.	.	.	.
290.	.	.	.	.	.	.	.	X	.	.	.	.	.
292.	.	.	.	.	.	.	X	.	.	.	.	.	.
294.	.	.	.	.	.	.	.	X	.	.	.	.	.
296.	.	.	.	.	.	.	X	E	.	.	.	.	.
298.	.	.	.	.	.	X	.	E	.	.	.	.	.
300.	.	.	.	.	.	.X	.	E	.	.	.	.	.
302.	.	.	.	.	.	X W.	.	E	.	.	.	.	.
304.	.	.	.	.	X	W.	.	E	.	.	.	.	.
306.	.	.	.	.	X.	W.	.	E	.	.	.	.	.

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                                KEYSCRSF.OUT
308. . . . . X . W. . E . . . . .
12 310. . . . . X . W. . E . . . . .
312. . . . . X . W. . E . . . . .
314. . . . . X . W. . E . . . . .
316. . . . . X . W. . E . . . . .
318. . . . . X . W. . E . . . . .
320. . . . . X . W. . E . . . . .
322. . . . . X . W. . E . . . . .
324. . . . . X . W. . E . . . . .
326. . . . . X . W. . E . . . . .
328. . . . . X . W. . E . . . . .
13 330. . . . . X . W. . E . . . . .
332. . . . . X . W. . E . . . . .
334. . . . . X . W. . E . . . . .
336. . . . . X . W. . E . . . . .
338. . . . . X . W. . E . . . . .
14 340. X . . . . W. . E . . . . .
342. . X . . . . W. . E . . . . .
344. . . X . . . . W. . E . . . . .
346. . . . X . . . . W. . E . . . . .
348. . . . . X . . . . W. . E . . . . .
350. . . . . X . . . . W. . E . . . . .
352. . . . . X . . . . W. . E . . . . .
354. . . . . X . . . . W. . E . . . . .
356. . . . . X . . . . W. . E . . . . .
15 358. . . . . X . . . . W. . E . . . . .
360. . . . . X . . . . W. . E . . . . .
362. . . . . X . . . . W. . E . . . . .
364. . . . . X . . . . W. . E . . . . .
366. . . . . X . . . . W. . E . . . . .
368. . . . . X . . . . W. . E . . . . .
370. . . . . X . . . . W. . E . . . . .
372. . . . . X . . . . W. . E . . . . .
374. . . . . X . . . . W. . E . . . . .
376. . . . . X . . . . W. . E . . . . .
378. . . . . X . . . . W. . E . . . . .
380. . . . . X . . . . W. . E . . . . .
382. . . . . X . . . . W. . E . . . . .
384. . . . . X . . . . W. . E . . . . .
386. . . . . X . . . . W. . E . . . . .
388. . . . . X . . . . W. . E . . . . .
16 390. . . . . X . W. . E . . . . .

```

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1315.00	.00	1307.40	41.00	1303.60	75.00	1305.20	91.00	1301.30	120.00
1299.20	132.00	1299.20	164.00	1296.90	190.00	1297.70	257.00	1297.30	282.00
1286.30	311.00	1282.00	331.00	1280.30	341.00	1283.80	358.00	1290.10	391.00
1291.50	408.00	1293.00	420.00	1296.80	430.00	1297.80	470.00	1299.20	541.00
1307.60	580.00	1306.60	602.00	1307.00	608.00	1310.00	621.00		

1
CROSS SECTION 305.00
STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1280.4 1282.4 1284.4 1286.4 1288.4 1290.4 1292.4 1294.4 1296.4 1298.4 1300.4

STA-FEET

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7 220. . . . . . . . . X . . BANK.
   225. . . . . . . . X . . .
   230. . . . . . X W. E . . .
   235. . . . X C . W. E . . .
   240. . . X C . W. E . . .
9 245. XXXXXXXXXXXXXXXX . . C . W. E . . .
   250. X . . . C . W. E . . .
   255. X . . . C . W. E . . .
   260. X . . . C . W. E . . .
   265. X . . . C . W. E . . .
   270. X . . . C . W. E . . .
11 275. XXXXXXXXXXXXXXXX . . C . W. E . . .
   280. . X . . C . W. E . . .
   285. . X . . C . W. E . . .
   290. . X . . C . W. E . . .
   295. . .X . . C . W. E . . .
12 300. . . X . . C . W. E . . .
   305. . . X . . C . W. E . . .
   310. . . .X . . C . W. E . . .
13 315. . . . X . . C . W. E . . .
   320. . . X . . C . W. E . . .
   325. . . X . . C . W. E . . .
   330. . . X C . W. E . . .
   335. . . .X C . W. E . . .
   340. . . .XC . W. E . . .
14 345. . . . X . . W. E . . .
   350. . . . X W. E . . .
   355. . . . . X . . .
   360. . . . . X . . .
15 365. . . . . . . X . . BANK.

```

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1310.00	.00	1307.90	34.00	1299.10	77.00	1299.10	95.00	1296.10	140.00
1297.60	222.00	1283.00	245.00	1280.40	246.00	1280.40	275.00	1283.00	276.00
1284.90	300.00	1287.30	314.00	1289.50	346.00	1295.80	363.00	1298.00	462.00
1299.50	607.00	1303.80	638.00	1315.00	742.00	1330.00	809.00		

1

CROSS SECTION 306.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 6000.

KEYSCRSF.OUT

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1280.4 1282.4 1284.4 1286.4 1288.4 1290.4 1292.4 1294.4 1296.4 1298.4 1300.4

STA-FEET

8560 XSEC POINT-T	EL,ST-	1315.00	.00							
8560 XSEC POINT-B	EL,ST-	.00	.00							
10 270. .	.	.	.	.	.	.	.	X	.	BANK.
8560 XSEC POINT-T	EL,ST-	1306.40	59.00							
8560 XSEC POINT-B	EL,ST-	.00	59.00							
11 271. X	.	.	.	.	W	.	.	E	.	.
8560 XSEC POINT-B	EL,ST-	.00	89.00							
12 272. .	.	.	.	.	W	.	.	E	T	.
8560 XSEC POINT-B	EL,ST-	.00	104.00							
13 273. .	.	.	.	.	W	.	.	E	T	.

NRD= 15 ELLC= 1293.30 ELTRD= 1295.70

.00	.00	1315.00	59.00	.00	1306.40	89.00	.00	1299.00		
104.00	.00	1299.00	166.00	.00	1295.70	270.00	.00	1297.30		
271.00	1293.30	1297.30	300.00	1293.30	1297.30	301.00	.00	1297.30		
533.00	.00	1298.50	600.00	.00	1299.70	643.00	.00	1305.50		
759.00	.00	1315.40								
EL(I),STA(I)										
1314.50	.00	1306.00	59.00	1298.50	89.00	1298.50	104.00	1295.20	166.00	
1296.30	191.00	1297.00	221.00	1297.00	267.00	1297.00	270.00	1280.40	271.00	
1280.40	300.00	1297.00	301.00	1298.00	533.00	1299.20	600.00	1305.00	643.00	
1315.00	759.00									

1

CROSS SECTION 307.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1280.4 1282.4 1284.4 1286.4 1288.4 1290.4 1292.4 1294.4 1296.4 1298.4 1300.4

STA-FEET

6 110. .	.	.	.	.	.	.	.	.	X	.
120. .	.	.	.	.	.	.	.	.	X	.
130. .	.	.	.	.	.	.	.	X.	.	.
140. .	.	.	.	.	.	.	.	X	.	.
150. .	.	.	.	.	.	.	.	XWE	.	.
160. .	.	.	.	.	.	.	.	X. WE	.	.
7 170. .	.	.	.	.	.	.	X	. WE	.	.
180. .	.	.	.	.	.	.	X	. WE	.	.
8 190. .	.	.	.	.	.	.	X	. WE	.	.
200. .	.	.	.	.	.	.	X	. WE	.	.
210. .	.	.	.	.	.	.	X.	WE	.	.

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                                KEYSCRSF.OUT
9 220. . . . . . . . . . X WE . . . BANK.
   230. . . . . . . . . . X WE . . . .
   240. . . . . X. C . . . WE . . . .
   250. . . . X. C . . . WE . . . .
10 260. X . . . . . C . . . WE . . . .
11 270. . X . . . . . C . . . WE . . . .
   280. . . X . . . . . C . . . WE . . . .
   290. . . . X . . . . . C . . . WE . . . .
   300. . . . . X . . . . . C . . . WE . . . .
   310. . . . . . X. C . . . WE . . . .
12 320. . . . . .X C . . . WE . . . BANK.
   330. . . . . .X C . . . WE . . . .
13 340. . . . . .X C . . . WE . . . .
   350. . . . . . X C . . . WE . . . .
   360. . . . . . X C . . . WE . . . .
   370. . . . . . X C . . . WE . . . .
   380. . . . . . X C . . . WE . . . .
14 390. . . . . . X C . . . WE . . . .
   400. . . . . . X C . . . WE . . . .
   410. . . . . . X C . . . WE . . . .
   420. . . . . . X C . . . WE . . . .
   430. . . . . . X C . . . WE . . . .
   440. . . . . . X C . . . WE . . . .
   450. . . . . . X C . . . WE . . . .
   460. . . . . . X C . . . WE . . . .
15 470. . . . . . X C . . . WE . . . .
   480. . . . . . X C . . . WE . . . .
   490. . . . . . X C . . . WE . . . .
   500. . . . . . X C . . . WE . . . .
17 510. . . . . . XXXXXXX WE . . . .
   520. . . . . . X C . . . .
   530. . . . . . X C . . . .
   540. . . . . . X C . . . .
   550. . . . . . X C . . . .
18 560. . . . . . X C . . . .

```

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1320.00	.00	1314.60	28.00	1306.60	68.00	1299.70	96.00	1299.60	113.00
1295.70	169.00	1295.50	187.00	1296.50	218.00	1280.40	257.00	1282.40	273.00
1288.60	316.00	1288.60	339.00	1291.60	391.00	1292.10	468.00	1295.50	507.00
1296.70	513.00	1299.50	556.00	1300.50	584.00	1306.40	636.00	1307.60	664.00
1311.90	734.00	1316.10	769.00	1324.30	807.00	1330.00	830.00		

1

CROSS SECTION 308.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1282.7 1287.7 1292.7 1297.7 1302.7 1307.7 1312.7 1317.7 1322.7 1327.7 1332.7

[illegible]

KEYSCRSF.OUT

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148. . . . X . W E . . . . .
150. . . . X . W E . . . . .
152. . . . X . W E . . . . .
154. . . . X . W E . . . . .
156. . . . X W E . . . . .
158. . . . X E . . . . .
160. . . . XE . . . . .
9 162. . . . X . . . . . BANK.

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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1320.00	.00	1311.00	25.00	1305.10	34.00	1305.10	46.00	1286.70	92.00
1282.70	110.00	1291.70	145.00	1299.90	162.00	1300.10	178.00	1294.20	192.00
1291.60	213.00	1292.50	239.00	1291.90	267.00	1294.20	288.00	1298.00	309.00
1300.20	352.00	1303.40	393.00	1307.00	426.00	1308.70	462.00	1311.30	509.00
1312.30	544.00	1317.10	577.00	1323.60	622.00	1330.00	652.00		

1

CROSS SECTION 309.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1284.4 1286.4 1288.4 1290.4 1292.4 1294.4 1296.4 1298.4 1300.4 1302.4 1304.4

STA-FEET

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9 140. . . . . . . . XE . . . . .
145. . . . . . . .X WE . . . . .
150. . . . . . X WE . . . . .
155. . . . . X. WE . . . . .
160. . . . . X WE . . . . .
165. . . . X WE . . . . .
170. . . .X C . . . . WE . . . . .
10 175. . . X C . . . WE . . . . .
180. . . X C . . . WE . . . . .
185. . . X C . . . WE . . . . .
11 190. . . X C . . . WE . . . . .
195. . . X C . . . WE . . . . .
200. . . X C . . . WE . . . . .
205. . . X C . . . WE . . . . .
210. . . X C . . . WE . . . . .
215. . . X C . . . WE . . . . .
220. . . X C . . . WE . . . . .
12 225. . .X C . . . WE . . . . BANK.
230. . . X C . . . WE . . . . .
235. . .X C . . . WE . . . . .
13 240. . .X C . . . WE . . . . .
245. . X C . . . WE . . . . .
250. . X C . . . WE . . . . .
14 255. X C . . . WE . . . . .

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KEYSCRSF.OUT

260.	.	X	.	.	.	.	C	.	.	WE	.	.	.	.
265.	.	X	.	.	.	.	C	.	.	WE	.	.	.	.
270.	.		X	.	.	.	C	.	.	WE	.	.	.	.
15 275.	.		X	.	.	.	C	.	.	WE	.	.	.	.
280.	.			X	.	.	C	.	.	WE	.	.	.	.
285.	.				X	.	C	.	.	WE	.	.	.	.
290.	.					X	C	.	.	WE	.	.	.	.
16 295.	.					X	C	.	.	WE	.	.	.	BANK.
300.	.					.X	C	.	.	WE	.	.	.	.
305.	.					X	C	.	.	WE	.	.	.	.
310.	.					X	C	.	.	WE	.	.	.	.
315.	.					X	C	.	.	WE	.	.	.	.
320.	.					X	C	.	.	WE	.	.	.	.
325.	.					X	C	.	.	WE	.	.	.	.
17 330.	.					X	C	.	.	WE	.	.	.	.
335.	.					X	C	.	.	WE	.	.	.	.
340.	.					X	C	.	.	WE	.	.	.	.
345.	.					.X	C	.	.	WE	.	.	.	.
350.	.						XC	.	.	WE	.	.	.	.
355.	.						X	.	.	WE	.	.	.	.
360.	.						X	.	.	WE	.	.	.	.
365.	.						X	.	.	WE	.	.	.	.
18 370.	.						X	.	.	WE	.	.	.	.
375.	.						X	.	.	WE	.	.	.	.
380.	.						X	.	.	WE	.	.	.	.
385.	.						X	.	.	WE	.	.	.	.
390.	.						X	.	.	WE	.	.	.	.
19 395.	.						X	.	.	WE	.	.	.	.
400.	.						.X	.	.	WE	.	.	.	.
405.	.							X	.	WE	.	.	.	.
410.	.							X	.	WE	.	.	.	.
415.	.							X	.	WE	.	.	.	.
420.	.							X	.	WE	.	.	.	.
425.	.							X	.	WE	.	.	.	.
430.	.							X	.	WE	.	.	.	.
20 435.	.							X	.	WE	.	.	.	.
440.	.								X	WE	.	.	.	.
445.	.								X	WE	.	.	.	.
450.	.								X	WE	.	.	.	.
455.	.								X	WE	.	.	.	.
460.	.								X	WE	.	.	.	.
465.	.								X	WE	.	.	.	.
21 470.	.								X	WE	.	.	.	.
475.	.									XE	.	.	.	.
22 480.	.									.X	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1320.00	.00	1313.60	22.00	1309.10	50.00	1308.50	61.00	1309.30	75.00
1303.40	101.00	1303.00	122.00	1299.70	140.00	1291.90	173.00	1291.00	191.00
1290.70	223.00	1286.70	239.00	1284.40	254.00	1286.30	273.00	1290.50	294.00
1291.80	331.00	1294.00	370.00	1294.40	397.00	1296.40	434.00	1298.80	469.00
1300.70	481.00	1303.30	517.00	1304.80	544.00	1306.60	576.00	1309.50	599.00

KEYSCRSF.OUT
705.00

ELEV	1287.5	1289.5	1291.5	1293.5	1295.5	1297.5	1299.5	1301.5	1303.5	1305.5	1307.5
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Year	100.	105.	110.	115.	120.	125.	130.	135.	140.	145.	150.	155.	160.	165.	170.	175.	180.	185.	190.	195.	200.	205.	210.	215.	220.	225.	230.	235.	240.	245.	250.	255.	260.	265.	270.	275.	280.	285.	290.	295.			
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25	.	.	.	.																																							

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1325.00	.00	1314.70	44.00	1311.40	56.00	1311.20	66.00	1306.40	101.00
1297.10	188.00	1295.60	225.00	1293.50	233.00	1295.30	243.00	1288.80	256.00
1287.50	273.00	1295.70	287.00	1296.70	300.00	1296.60	357.00	1294.80	395.00
1295.50	432.00	1298.70	509.00	1301.80	559.00	1303.30	625.00	1304.20	645.00
1307.30	685.00	1309.30	713.00	1312.70	753.00	1311.50	769.00	1311.10	789.00
1316.60	874.00	1318.80	912.00	1322.50	954.00	1323.30	991.00	1325.00	1044.00

1

CROSS SECTION 311.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1294.0 1295.0 1296.0 1297.0 1298.0 1299.0 1300.0 1301.0 1302.0 1303.0 1304.0

STA-FEET

160.	.	.	.	.	.	.	.	.	.	.	.
8 165.	.	.	.	.	.	.	.	.	.	.	.
170.	.	.	.	.	.	.	.	.	.	.	.
175.	.	.	.	.	.	.	.	.	.	.	.
180.	.	.	.	.	.	.	.	.	.	.	.
185.	.	.	.	.	.	.	.	.	.	.	.
190.	.	.	.	.	.	.	.	.	.	.	.
195.	.	.	.	.	.	.	.	.	.	.	.
200.	.	.	.	.	.	.	.	.	.	.	.
205.	.	.	.	.	.	.	.	.	.	.	.
210.	.	.	.	.	.	.	.	.	.	.	.
215.	.	.	.	.	.	.	.	.	.	.	.
220.	.	.	.	.	.	.	.	.	.	.	.
225.	.	.	.	.	.	.	.	.	.	.	.
230.	.	.	.	.	.	.	.	.	.	.	.
235.	.	.	.	.	.	.	.	.	.	.	.
240.	.	.	.	.	.	.	.	.	.	.	.
245.	.	.	.	.	.	.	.	.	.	.	.
9 250.	.	.	.	.	.	.	.	.	.	.	.
255.	.	.	.	.	.	.	.	.	.	.	.
260.	.	.	.	.	.	.	.	.	.	.	.
265.	.	.	.	.	.	.	.	.	.	.	.
270.	.	.	.	.	.	.	.	.	.	.	.
275.	.	.	.	.	.	.	.	.	.	.	.
280.	.	.	.	.	.	.	.	.	.	.	.
285.	.	.	.	.	.	.	.	.	.	.	.
290.	.	.	.	.	.	.	.	.	.	.	.
10 295.	.	.	.	.	.	.	.	.	.	.	.
300.	.	.	.	.	.	.	.	.	.	.	.
305.	.	.	.	.	.	.	.	.	.	.	.
310.	.	.	.	.	.	.	.	.	.	.	.
315.	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1325.00	.00	1315.30	49.00	1312.50	67.00	1312.50	77.00	1314.00	85.00
1307.60	116.00	1302.60	163.00	1295.90	248.00	1297.20	296.00	1299.60	332.00
1294.00	360.00	1298.40	374.00	1299.20	408.00	1297.70	450.00	1298.80	489.00
1301.60	586.00	1304.40	654.00	1306.70	712.00	1307.60	759.00	1312.30	781.00
1314.20	815.00	1313.40	825.00	1314.50	831.00	1315.60	877.00	1318.40	906.00
1321.00	982.00	1321.80	1030.00	1325.00	1075.00				

1

CROSS SECTION 312.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	1298.9	1299.9	1300.9	1301.9	1302.9	1303.9	1304.9	1305.9	1306.9	1307.9	1308.9
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STA-FEET

9	205.	.	.	.	.	.	.	.	.	X	E	.	.
	210.	.	.	.	.	.	.	.	.	X	E	.	.
	215.	.	.	.	.	.	.	.	X.	E	.	.	
	220.	.	.	.	.	.	.	.	X	E	.	.	
	225.	.	.	.	.	.	.	.	XW	E	.	.	
	230.	.	.	.	.	.	.	X	W	E	.	.	
	235.	.	.	.	.	.	.	X	W	E	.	.	
	240.	.	.	.	.	.	.	X	W	E	.	.	
	245.	.	.	.	.	.	.	X	W	E	.	.	
	250.	.	.	.	.	.	.	X	W	E	.	.	
	255.	.	.	.	.	.	.	X	W	E	.	.	
	260.	.	.	.	.	.	.	X	W	E	.	.	
	265.	.	.	.	.	.	.	X	W	E	.	.	
	270.	.	.	.	.	.	.	X	W	E	.	.	
10	275.	.	.	.	.	.	.	X	W	E	.	.	
	280.	.	.	.	.	.	.	X	W	E	.	.	
	285.	.	.	.	.	.	.	X	W	E	.	.	
	290.	.	.	.	.	.	.	X	W	E	.	.	
11	295.	.	.	.	.	.	.	X	W	E	.	.	
	300.	.	.	.	.	.	.	X	W	E	.	.	
12	305.	.	.	.	.	.	.	X	W	E	.	.	
	310.	.	.	.	.	.	.	X	W	E	.	.	
	315.	.	.	.	.	.	.	X	W	E	.	.	
	320.	.	.	.	.	.	.	X	W	E	.	.	
13	325.	.	.	.	.	X	.	.	W	E	.	BANK.	
	330.	.	X	.	.	.	.	.	W	E	.	.	
14	335.	X	.	.	.	.	.	.	W	E	.	.	
	340.	.	X	.	.	.	.	.	W	E	.	.	
15	345.	.	.	.	.	X	.	.	W	E	.	BANK.	
	350.	.	.	.	.	X	.	.	W	E	.	.	
	355.	.	.	.	.	X	.	.	W	E	.	.	

										KEYSCRSF.OUT									
	360.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	365.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	370.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	375.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	380.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
16	385.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	390.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	395.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	400.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	405.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	410.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	415.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	420.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	425.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	430.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	435.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	440.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
17	445.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	450.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	455.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	460.	.	.	.	.	.	X.	.	.	W	.	E	.	.	.				
	465.	.	.	.	.	.	X.	.	.	W	.	E	.	.	.				
	470.	.	.	.	.	.	X.	.	.	W	.	E	.	.	.				
	475.	.	.	.	.	.	X.	.	.	W	.	E	.	.	.				
	480.	.	.	.	.	.	X.	.	.	W	.	E	.	.	.				
	485.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	490.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	495.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	500.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	505.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	510.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	515.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
18	520.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	525.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	530.	.	.	.	.	.	X.	.	.	W	.	E	.	.	.				
	535.	.	.	.	.	.	X	.	.	W	.	E	.	.	.				
	540.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	545.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	550.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	555.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	560.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	565.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	570.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
19	575.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	580.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	585.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	590.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	595.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	600.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	605.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	610.	.	.	.	.	.	.XW	.	.	W	.	E	.	.	.				
	615.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	620.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				
	625.	.	.	.	.	.	.X	.	.	W	.	E	.	.	.				

KEYSCRSF.OUT

630. X E . . .
 20 635. XE . . .

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1325.00	.00	1316.60	56.00	1313.40	99.00	1311.70	111.00	1312.10	121.00
1310.70	158.00	1313.60	178.00	1307.30	207.00	1304.20	275.00	1303.80	294.00
1304.90	305.00	1303.60	324.00	1298.90	334.00	1303.80	346.00	1304.20	383.00
1303.90	444.00	1303.60	521.00	1304.90	577.00	1307.50	637.00	1310.70	704.00
1311.60	724.00	1313.80	744.00	1314.20	789.00	1316.50	808.00	1319.10	866.00
1320.90	934.00	1322.00	987.00	1325.00	1059.00				

1

CROSS SECTION 313.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1299.3 1301.3 1303.3 1305.3 1307.3 1309.3 1311.3 1313.3 1315.3 1317.3 1319.3

STA-FEET

55. .	.	.	.	.	.	.	X .	.	.	.
4 60. .	.	.	.	.	.	.	X .	.	.	.
65. .	.	.	.	.	.	.	E .	.	.	.
70. .	.	.	.	.	.	X.	E .	.	.	.
75. .	.	.	.	.	.	X W .	E .	.	.	.
80. .	.	.	.	.	X	W .	E .	.	.	.
85. .	.	.	.	.	X	W .	E .	.	.	.
5 90. .	.	.	.	.	X	W .	E .	.	.	.
95. .	.	.	.	.	X	W .	E .	.	.	.
100. .	.	.	.	.	X	W .	E .	.	.	.
105. .	.	.	.	.	X	W .	E .	.	.	.
110. .	.	.	.	.	X	W .	E .	.	.	.
115. .	.	.	.	.	X	W .	E .	.	.	.
6 120. .	.	.	.	.	X	W .	E .	.	.	BANK .
125. .	.	.	.	.	X.	W .	E .	.	.	.
130. .	.	.	.	.	X	W .	E .	.	.	.
7 135. .	.	.	.	.	X	W .	E .	.	.	.
8 140. X	.	.	.	.	.	W .	E .	.	.	.
145. .	X	.	.	.	.	W .	E .	.	.	.
150. .	.	X.	.	.	.	W .	E .	.	.	.
155. .	.	.	X.	.	.	W .	E .	.	.	.
160. .	.	.	.	.	X.	W .	E .	.	.	.
9 165. .	.	.	.	.	X	W .	E .	.	.	BANK .
10 170. .	.	.	.	.	X	W .	E .	.	.	.
175. .	.	.	.	.	X	W .	E .	.	.	.
180. .	.	.	.	.	X	W .	E .	.	.	.
11 185. .	.	.	.	.	X	W .	E .	.	.	.
190. .	.	.	.	.	X	W .	E .	.	.	.
195. .	.	.	.	.	X	W .	E .	.	.	.

KEYSCRSF.OUT

200.	.	.	.	X	.	.	W	.	E	.	.	.	.	.
205.	.	.	.	X	.	.	W	.	E	.	.	.	.	.
12 210.	.	.	.	X	.	.	W	.	E	.	.	.	.	.
215.	.	.	.	.	X	.	W	.	E	.	.	.	.	.
220.	.	.	.	.	.	X	W	.	E	.	.	.	.	.
225.	.	.	.	.	.	X	W	.	E	.	.	.	.	.
230.	.	.	.	.	.	X	W	.	E	.	.	.	.	.
235.	.	.	.	.	.	.	X	W	.	E	.	.	.	.
240.	.	.	.	.	.	.	X	W	.	E	.	.	.	.
245.	.	.	.	.	.	.	X	.	E	.	.	.	.	.
13 250.	.	.	.	.	.	.	.	X	E	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1325.00	.00	1324.40	11.00	1312.80	59.00	1307.70	89.00	1307.90	120.00
1305.80	134.00	1299.30	142.00	1307.40	163.00	1307.70	171.00	1306.30	186.00
1306.90	209.00	1311.70	252.00	1318.70	284.00	1315.20	312.00	1312.00	385.00
1312.90	431.00	1310.90	435.00	1313.00	441.00	1312.80	488.00	1315.40	551.00
1318.20	612.00	1318.50	639.00	1319.10	742.00	1320.50	833.00	1325.00	903.00

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CROSS SECTION 314.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1306.7 1307.7 1308.7 1309.7 1310.7 1311.7 1312.7 1313.7 1314.7 1315.7 1316.7

STA-FEET

6 100.	.	.	.	.	.	.	.	X	.	E	.	.	.
105.	.	.	.	.	.	.	X	W	.	E	.	.	.
110.	.	.	.	.	.	X	.	W	.	E	.	.	.
115.	.	.	.	.	X	.	.	W	.	E	.	.	.
120.	.	.	.	X	.	.	.	W	.	E	.	.	.
125.	.	.	X	.	.	.	.	W	.	E	.	.	.
7 130.	.	X	.	.	.	.	.	W	.	E	.	.	.
135.	.	.	.	X	.	.	.	W	.	E	.	.	.
8 140.	.	.	.	.	X	.	.	W	.	E	.	.	.
145.	.	.	.	.	X	.	.	W	.	E	.	.	.
150.	.	.	.	.	X	.	.	W	.	E	.	.	.
155.	.	.	.	.	X	.	.	W	.	E	.	.	.
160.	.	.	.	X	.	.	.	W	.	E	.	.	.
165.	.	.	.	X	.	.	.	W	.	E	.	.	.
9 170.	.	.	.	X	.	.	.	W	.	E	.	BANK.	.
175.	.	.	X	.	.	.	.	W	.	E	.	.	.
180.	.	.	X	.	.	.	.	W	.	E	.	.	.
10 185.	.	X	.	.	.	.	.	W	.	E	.	.	.
190.	.	X	.	.	.	.	.	W	.	E	.	.	.
195.	X	.	.	.	.	.	.	W	.	E	.	.	.
200.	X	.	.	.	.	.	.	W	.	E	.	.	.

KEYSCRSF.OUT

11	205.	X	.	.	.	.	.	.	.	W	.	E	.	.	.
	210.	.X	.	.	.	.	.	.	.	W	.	E	.	.	.
	215.	.X	.	.	.	.	.	.	.	W	.	E	.	.	.
	220.	.X	.	.	.	.	.	.	.	W	.	E	.	.	.
12	225.	.X	.	.	.	.	.	.	.	W	.	E	.	.	.
	230.	.	X	.	.	.	.	.	.	W	.	E	.	.	.
13	235.	.	.	.	X.	.	.	.	.	W	.	E	.	BANK.	.
	240.	.	.	.	.X	.	.	.	.	W	.	E	.	.	.
	245.	.	.	.	.	X	.	.	.	W	.	E	.	.	.
	250.	.	.	.	.	.	X	.	.	W	.	E	.	.	.
	255.	.	.	.	.	.	.	X	.	W	.	E	.	.	.
	260.	.	.	.	.	.	.	.	X	W	.	E	.	.	.
14	265.	.	.	.	.	.	.	.	X.	W	.	E	.	.	.
	270.	.	.	.	.	.	.	.	X	W	.	E	.	.	.
	275.	.	.	.	.	.	.	.	.X	W	.	E	.	.	.
	280.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
	285.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
	290.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
	295.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
15	300.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
	305.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
	310.	.	.	.	.	.	.	.	X	W	.	E	.	.	.
	315.	.	.	.	.	.	.	.	.X	W	.	E	.	.	.
	320.	.	.	.	.	X	.	.	.	W	.	E	.	.	.
	325.	.	.	.	.	.X	.	.	.	W	.	E	.	.	.
16	330.	.	.	.	X	.	.	.	.	W	.	E	.	.	.
	335.	.	.	.	.	.	X	.	.	W	.	E	.	.	.
17	340.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
	345.	.	.	.	.	.	.	.	.	X	W	.	E	.	.
	350.	.	.	.	.	.	.	.	.	.XW	.	E	.	.	.
	355.	.	.	.	.	.	.	.	.	.	X	E	.	.	.
	360.	.	.	.	.	.	.	.	.	.	X	E	.	.	.
	365.	.	.	.	.	.	.	.	.	.	.	X	E	.	.
	370.	.	.	.	.	.	.	.	.	.	.	X	E	.	.
	375.	.	.	.	.	.	.	.	.	.	.	X	E	.	.
18	380.	.	.	.	.	.	.	.	.	.	.	X	E	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1335.00	.00	1332.20	8.00	1332.50	19.00	1322.80	60.00	1314.20	100.00
1308.50	132.00	1311.20	141.00	1310.50	171.00	1308.60	183.00	1306.70	203.00
1306.90	223.00	1310.60	235.00	1312.60	267.00	1313.40	300.00	1310.50	328.00
1313.50	341.00	1314.90	382.00	1316.10	447.00	1317.70	490.00	1319.20	543.00
1320.30	630.00	1319.00	734.00	1320.50	753.00	1321.60	807.00	1322.50	873.00
1325.40	885.00	1326.40	899.00	1326.40	926.00	1325.50	932.00	1326.40	975.00
1328.00	997.00	1334.70	1013.00	1343.20	1078.00	1350.00	1120.00		

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CROSS SECTION 315.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

KEYSCRSF.OUT

ELEV 1308.4 1309.4 1310.4 1311.4 1312.4 1313.4 1314.4 1315.4 1316.4 1317.4 1318.4

STA-FEET

145.	.	.	.	.	.	.	.	.	X	.	.	.
8 150.	.	.	.	.	.	.	.	.	X	.	.	.
155.	.	.	.	.	.	.	.	X	E	.	.	.
160.	.	.	.	.	.	.	X	E	.	.	.	.
165.	.	.	.	.	.	XW	.	E	.	.	.	.
9 170.	.	.	.	.	.	W	.	E	.	.	.	.
175.	.	.	.	.	.	W	.	E	.	.	.	.
180.	.	.	.	.	.	W	.	E	.	.	.	.
185.	.	.	.	.	.	W	.	E	.	.	.	.
190.	.	.	.	.	.	W	.	E	.	.	.	.
195.	.	.	.	.	.	W	.	E	.	.	.	.
10 200.	.	.	.	.	.	W	.	E	.	.	BANK.	.
205.	.	.	.	.	.	W	.	E	.	.	.	.
210.	.	.	.	.	.	W	.	E	.	.	.	.
215.	.	.	.	.	.	W	.	E	.	.	.	.
220.	.	.	.	.	.	W	.	E	.	.	.	.
225.	.	.	.	.	.	W	.	E	.	.	.	.
230.	.	.	.	.	.	W	.	E	.	.	.	.
235.	.	.	.	.	.	W	.	E	.	.	.	.
240.	.	.	.	.	.	W	.	E	.	.	.	.
245.	.	.	.	.	.	W	.	E	.	.	.	.
250.	.	.	.	.	.	W	.	E	.	.	.	.
11 255.	.	.	.	.	.	W	.	E	.	.	.	.
260.	.	.	.	.	.	W	.	E	.	.	.	.
265.	.	.	.	.	.	W	.	E	.	.	.	.
270.	.	.	.	.	.	W	.	E	.	.	.	.
275.	.	.	.	.	.	W	.	E	.	.	.	.
12 280.	.	.	.	.	.	W	.	E	.	.	.	.
285.	.	.	.	.	.	W	.	E	.	.	.	.
290.	.	.	.	.	.	W	.	E	.	.	.	.
295.	.	.	.	.	.	W	.	E	.	.	.	.
13 300.	.	.	.	.	.	W	.	E	.	.	.	.
305.	.	.	.	.	.	W	.	E	.	.	.	.
310.	.	.	.	.	.	W	.	E	.	.	.	.
14 315.	.	.	.	.	.	W	.	E	.	.	BANK.	.
320.	.	.	.	.	.	W	.	E	.	.	.	.
325.	.	.	.	.	.	W	.	E	.	.	.	.
330.	.	.	.	.	.	W	.	E	.	.	.	.
15 335.	.	.	.	.	.	W	.	E	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1335.00	.00	1330.00	35.00	1329.60	53.00	1329.60	66.00	1324.50	99.00
1317.90	124.00	1316.80	149.00	1313.90	169.00	1312.70	200.00	1308.60	257.00
1308.40	282.00	1310.90	299.00	1314.30	313.00	1315.80	337.00	1317.80	351.00
1315.80	372.00	1314.90	398.00	1316.90	413.00	1317.30	515.00	1319.10	553.00
1319.90	632.00	1321.00	730.00	1320.90	819.00	1322.30	945.00	1320.40	966.00

					KEYSCRSF.OUT					
1322.40	999.00	1326.20	1018.00	1327.30	1026.00	1327.40	1062.00	1327.30	1122.00	
1328.50	1165.00	1332.80	1177.00	1340.20	1227.00	1349.90	1281.00	1360.10	1295.00	
1357.10	1310.00	1365.00	1364.00							

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CROSS SECTION 316.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	1317.0	1317.5	1318.0	1318.5	1319.0	1319.5	1320.0	1320.5	1321.0	1321.5	1322.0
STA- FEET											
4 90. .	.	.	.	.	.	.	.	X .	.	.	.
95. .	.	.	.	.	.	.	X .	E .	.	.	.
100. .	.	.	.	.	.	X W	.	E .	.	.	.
105. .	.	.	.	.	X .	.	W .	E .	.	.	.
110. .	.	.	.	.	X .	.	W .	E .	.	.	.
115. .	.	.	X .	.	.	.	W .	E .	.	.	.
120. .	.	X .	.	.	.	.	W .	E .	.	.	.
5 125. . X	.	.	.	.	.	.	W .	E .	.	.	.
130. X	.	.	.	.	.	.	W .	E .	.	.	.
8560 XSEC POINT-X	EL,ST-	1316.90	135.00								
6 135. X	.	.	.	.	.	.	W .	E .	.	.	.
140. X	.	.	.	.	.	.	W .	E .	.	.	.
145. X	.	.	.	.	.	.	W .	E .	.	.	.
150. X	.	.	.	.	.	.	W .	E .	.	.	.
155. X	.	.	.	.	.	.	W .	E .	.	.	.
8560 XSEC POINT-X	EL,ST-	1313.70	161.00								
7 160. X	.	.	.	.	.	.	W .	E .	.	.	.
165. X	.	.	.	.	.	.	W .	E .	.	.	.
170. X	.	.	.	.	.	.	W .	E .	.	.	.
175. X	.	.	.	.	.	.	W .	E .	.	.	.
180. X	.	.	.	.	.	.	W .	E .	.	.	.
8560 XSEC POINT-X	EL,ST-	1314.80	187.00								
8 185. X	.	.	.	.	.	.	W .	E .	.	.	.
190. X	.	.	.	.	.	.	W .	E .	.	.	.
195. X	.	.	.	.	.	.	W .	E .	.	.	.
200. X	.	.	.	.	.	.	W .	E .	.	.	.
205. X	.	.	.	.	.	.	W .	E .	.	.	.
210. .X	.	.	.	.	.	.	W .	E .	.	.	.
215. .	X .	.	.	.	.	.	W .	E .	.	.	.
220. .	.	X .	.	.	.	.	W .	E .	.	.	.
9 225. .	.	.	X .	.	.	.	W .	E .	.	.	.
230. .	.	.	X .	.	.	.	W .	E .	.	.	.
235. .	.	.	X .	.	.	.	W .	E .	.	.	.
240. .	.	.	X .	.	.	.	W .	E .	.	.	.
245. .	.	.	X .	.	.	.	W .	E .	.	.	.
250. .	.	.	X .	.	.	.	W .	E .	.	.	.
255. .	.	.	X .	.	.	.	W .	E .	.	.	.
10 260. .	.	.	X .	.	.	.	W .	E .	.	.	.

KEYSCRSF.OUT	
265.	W
270.	W
275.	W
280.	W
285.	W
290.	W
295.	W
300.	W
305.	W
310.	W
315.	W
320.	W
325.	W
330.	W
335.	W
340.	W
345.	W
350.	W
355.	W
360.	W
365.	W
370.	W
375.	W
380.	W
385.	W
390.	W
395.	W
400.	W
405.	W
410.	W
415.	W
420.	W
425.	W
430.	W
435.	W
440.	W
445.	W
450.	W
455.	W
460.	W
465.	W
470.	W
475.	W
480.	W
485.	W
490.	W
495.	W
500.	W
505.	W
510.	W
515.	W
520.	W
525.	W
530.	W

KEYSCRSF.OUT

535. .	.	.	.	.	.	X	.	E .	.	.	.
18 540. .	.	.	.	.	.	X	.	E .	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1345.00	.00	1321.40	80.00	1320.90	91.00	1317.10	127.00	1316.90	135.00
1313.70	161.00	1314.80	187.00	1318.10	224.00	1318.50	261.00	1320.00	318.00
1318.80	355.00	1317.00	386.00	1317.90	411.00	1317.50	423.00	1319.50	444.00
1319.80	466.00	1320.10	539.00	1320.40	583.00	1320.40	624.00	1321.90	691.00
1322.40	762.00	1322.90	806.00	1324.30	850.00	1325.60	918.00	1323.50	1003.00
1325.30	1057.00	1323.80	1071.00	1324.80	1099.00	1330.30	1112.00	1331.10	1133.00
1330.60	1152.00	1326.00	1161.00	1326.00	1170.00	1326.70	1318.00	1328.60	1435.00
1330.20	1550.00	1336.10	1684.00	1341.80	1802.00	1345.00	1880.00		

1

CROSS SECTION 317.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1320.6 1325.6 1330.6 1335.6 1340.6 1345.6 1350.6 1355.6 1360.6 1365.6 1370.6

STA-FEET

125. .		X .	.	.	.	.	.	.	.	.	.
10 130. .		X .	.	.	.	.	.	.	.	.	.
135. .		X .	.	.	.	.	.	.	.	.	.
140. .		X .	.	.	.	.	.	.	.	.	.
145. .		X .	.	.	.	.	.	.	.	.	.
150. .		X .	.	.	.	.	.	.	.	.	.
155. .		X .	.	.	.	.	.	.	.	.	.
160. .		X .	.	.	.	.	.	.	.	.	.
165. .		X .	.	.	.	.	.	.	.	.	.
170. .		XE .	.	.	.	.	.	.	.	.	.
175. .		XE .	.	.	.	.	.	.	.	.	.
11 180. .		XWE .	.	.	.	.	.	.	.	.	.
185. .		XWE .	.	.	.	.	.	.	.	.	.
190. .		XWE .	.	.	.	.	.	.	.	.	.
195. .		X WE .	.	.	.	.	.	.	.	.	.
200. .		X WE .	.	.	.	.	.	.	.	.	.
205. .		X WE .	.	.	.	.	.	.	.	.	.
210. .		X WE .	.	.	.	.	.	.	.	.	.
215. .		X WE .	.	.	.	.	.	.	.	.	.
220. .		X WE .	.	.	.	.	.	.	.	.	.
225. .		X WE .	.	.	.	.	.	.	.	.	.
230. .		X WE .	.	.	.	.	.	.	.	.	.
235. .		X WE .	.	.	.	.	.	.	.	.	.
240. .		X WE .	.	.	.	.	.	.	.	.	.
245. .		X WE .	.	.	.	.	.	.	.	.	.
12 250. .		X WE .	.	.	.	.	.	.	.	.	.
255. .		X WE .	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

260.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
265.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
270.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
275.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
280.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
285.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
290.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
295.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
300.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
305.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
310.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
315.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
320.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
325.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
330.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
335.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.
13	340.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	345.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	350.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	355.	.	X	WE	.	.	.	.	.	.	.	.	.	.
14	360.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	365.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	370.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	375.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	380.	.	X	WE	.	.	.	.	.	.	.	.	.	.
15	385.	.	X	WE	.	.	.	.	.	.	.	.	BANK.	.
	390.	.	X	WE	.	.	.	.	.	.	.	.	.	.
16	395.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	400.	.	X	WE	.	.	.	.	.	.	.	.	.	.
17	405.	.	X	WE	.	.	.	.	.	.	.	.	BANK.	.
	410.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	415.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	420.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	425.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	430.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	435.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	440.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	445.	.	X	WE	.	.	.	.	.	.	.	.	.	.
18	450.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	455.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	460.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	465.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	470.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	475.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	480.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	485.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	490.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	495.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	500.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	505.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	510.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	515.	.	X	WE	.	.	.	.	.	.	.	.	.	.
19	520.	.	X	WE	.	.	.	.	.	.	.	.	.	.
	525.	.	X	WE	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

530.	.	X	WE	.	.	.	.	.	.	.	.	.	.
535.	.	X	WE	.	.	.	.	.	.	.	.	.	.
540.	.	X	WE	.	.	.	.	.	.	.	.	.	.
545.	.	X	WE	.	.	.	.	.	.	.	.	.	.
550.	.	X	WE	.	.	.	.	.	.	.	.	.	.
20	555.	.	X	WE	.	.	.	.	.	.	.	.	.
	560.	.	X	WE	.	.	.	.	.	.	.	.	.
	565.	.	X	WE	.	.	.	.	.	.	.	.	.
	570.	.	X	WE	.	.	.	.	.	.	.	.	.
	575.	.	X	WE	.	.	.	.	.	.	.	.	.
21	580.	.	X	WE	.	.	.	.	.	.	.	.	.
	585.	.	X	WE	.	.	.	.	.	.	.	.	.
	590.	.	X	WE	.	.	.	.	.	.	.	.	.
	595.	.	X	WE	.	.	.	.	.	.	.	.	.
	600.	.	X	WE	.	.	.	.	.	.	.	.	.
	605.	.	X	WE	.	.	.	.	.	.	.	.	.
	610.	.	X	WE	.	.	.	.	.	.	.	.	.
	615.	.	X	WE	.	.	.	.	.	.	.	.	.
22	620.	.	XWE	.	.	.	.	.	.	.	.	.	.
	625.	.	XWE	.	.	.	.	.	.	.	.	.	.
	630.	.	XWE	.	.	.	.	.	.	.	.	.	.
	635.	.	XWE	.	.	.	.	.	.	.	.	.	.
	640.	.	XWE	.	.	.	.	.	.	.	.	.	.
	645.	.	XWE	.	.	.	.	.	.	.	.	.	.
	650.	.	XWE	.	.	.	.	.	.	.	.	.	.
	655.	.	X	WE	.	.	.	.	.	.	.	.	.
	660.	.	X	WE	.	.	.	.	.	.	.	.	.
	665.	.	X	WE	.	.	.	.	.	.	.	.	.
	670.	.	X	WE	.	.	.	.	.	.	.	.	.
	675.	.	X	WE	.	.	.	.	.	.	.	.	.
23	680.	.	X	WE	.	.	.	.	.	.	.	.	.
	685.	.	X	WE	.	.	.	.	.	.	.	.	.
	690.	.	X	WE	.	.	.	.	.	.	.	.	.
	695.	.	X	WE	.	.	.	.	.	.	.	.	.
	700.	.	X	WE	.	.	.	.	.	.	.	.	.
	705.	.	X	WE	.	.	.	.	.	.	.	.	.
	710.	.	XWE	.	.	.	.	.	.	.	.	.	.
	715.	.	XWE	.	.	.	.	.	.	.	.	.	.
	720.	.	XWE	.	.	.	.	.	.	.	.	.	.
	725.	.	XWE	.	.	.	.	.	.	.	.	.	.
	730.	.	XWE	.	.	.	.	.	.	.	.	.	.
	735.	.	XWE	.	.	.	.	.	.	.	.	.	.
	740.	.	XWE	.	.	.	.	.	.	.	.	.	.
	745.	.	XWE	.	.	.	.	.	.	.	.	.	.
	750.	.	XWE	.	.	.	.	.	.	.	.	.	.
	755.	.	XWE	.	.	.	.	.	.	.	.	.	.
	760.	.	XWE	.	.	.	.	.	.	.	.	.	.
	765.	.	XWE	.	.	.	.	.	.	.	.	.	.
	770.	.	XWE	.	.	.	.	.	.	.	.	.	.
	775.	.	XWE	.	.	.	.	.	.	.	.	.	.
	780.	.	XWE	.	.	.	.	.	.	.	.	.	.
	785.	.	XWE	.	.	.	.	.	.	.	.	.	.
24	790.	.	XWE	.	.	.	.	.	.	.	.	.	.
	795.	.	X	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1170.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1175.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1180.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
231185.	.	X	CWE	.	.	.	.	.	.	.	.	.	BANK.	.
1190.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
241195.	X		CWE	.	.	.	.	.	.	.	.	.	.	.
1200.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1205.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1210.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
251215.	.	X	CWE	.	.	.	.	.	.	.	.	.	BANK.	.
1220.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1225.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1230.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1235.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
261240.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1245.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1250.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1255.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1260.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1265.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1270.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1275.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1280.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1285.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1290.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1295.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1300.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
271305.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1310.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1315.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1320.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1325.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1330.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1335.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1340.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
281345.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1350.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1355.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1360.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1365.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1370.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1375.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1380.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1385.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1390.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1395.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1400.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1405.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
291410.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1415.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1420.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1425.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1430.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1435.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1440.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1445.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1450.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1455.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1460.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1465.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1470.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1475.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1480.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1485.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
301490.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1495.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1500.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1505.	.	X	CWE	.	.	.	.	.	.	.	.	.	.	.
1510.	.		XCWE	.	.	.	.	.	.	.	.	.	.	.
1515.	.		XCWE	.	.	.	.	.	.	.	.	.	.	.
1520.	.		XCWE	.	.	.	.	.	.	.	.	.	.	.
1525.	.		XCWE	.	.	.	.	.	.	.	.	.	.	.
1530.	.		XCWE	.	.	.	.	.	.	.	.	.	.	.
311535.	.		XWE	.	.	.	.	.	.	.	.	.	.	.
1540.	.		XWE	.	.	.	.	.	.	.	.	.	.	.
1545.	.		XWE	.	.	.	.	.	.	.	.	.	.	.
1550.	.		XE	.	.	.	.	.	.	.	.	.	.	.
1555.	.		XE	.	.	.	.	.	.	.	.	.	.	.
1560.	.		X	.	.	.	.	.	.	.	.	.	.	.
1565.	.		X	.	.	.	.	.	.	.	.	.	.	.
1570.	.		X	.	.	.	.	.	.	.	.	.	.	.
1575.	.		X	.	.	.	.	.	.	.	.	.	.	.
1580.	.		X	.	.	.	.	.	.	.	.	.	.	.
1585.	.		X	.	.	.	.	.	.	.	.	.	.	.
1590.	.		X	.	.	.	.	.	.	.	.	.	.	.
1595.	.		X	.	.	.	.	.	.	.	.	.	.	.
1600.	.		X	.	.	.	.	.	.	.	.	.	.	.
1605.	.		X	.	.	.	.	.	.	.	.	.	.	.
321610.	.		X	.	.	.	.	.	.	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

100000.00	23.00	100000.00	71.00	100000.00	142.00	100000.00	250.00	100000.00	366.00
100000.00	468.00	100000.00	533.00	100000.00	559.00	100000.00	619.00	100000.00	658.00
100000.00	705.00	100000.00	739.00	100000.00	761.00	100000.00	802.00	100000.00	857.00
100000.00	919.00	100000.00	977.00	100000.00	1050.00	1331.56	1050.00	1331.80	1073.00
1331.90	1131.00	1332.80	1183.00	1329.20	1196.00	1333.40	1213.00	1332.40	1240.00
1332.80	1303.00	1332.50	1344.00	1331.70	1411.00	1333.00	1492.00	1334.00	1536.00
1337.10	1612.00	1337.90	1644.00	1338.60	1667.00	1338.10	1713.00	1340.00	1764.00
1340.70	1820.00	1342.00	1894.00	1343.80	1966.00	1345.90	2033.00	1347.70	2071.00
1350.80	2117.00	1353.10	2184.00	1353.90	2244.00	1354.30	2311.00	1355.40	2344.00
1356.40	2435.00	1357.70	2512.00	1358.30	2611.00	1360.70	2645.00	1364.40	2659.00
1365.00	2667.00	100000.00	2667.00						

1

CROSS SECTION 319.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 6000.

KEYSCRSF.OUT

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1331.1 1332.1 1333.1 1334.1 1335.1 1336.1 1337.1 1338.1 1339.1 1340.1 1341.1

STA-FEET

320.	.	.	.	.	.	.	.	.	.	.	.
12 325.	.	.	.	.	.	.	.	.	.	.	BANK.
330.	.	.	.	.	.	.	X	E	.	.	.
335.	.	.	.	.	.	X	.	W	E	.	.
340.	.	.	.	.	X	C	.	W	E	.	.
14 345.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	C	.	W	E	.	.	.
350.	X	.	.	.	C	.	W	E	.	.	.
16 355.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	.	.	.	C	.	W	E	.	.	BANK.
360.	.	.	X	.	C	.	W	E	.	.	.
365.	.	.	X	.	C	.	W	E	.	.	.
370.	.	.	X	.	C	.	W	E	.	.	.
375.	.	.	X	.	C	.	W	E	.	.	.
380.	.	.	X	.	C	.	W	E	.	.	.
385.	.	.	X	.	C	.	W	E	.	.	.
390.	.	.	X	.	C	.	W	E	.	.	.
395.	.	.	X	.	C	.	W	E	.	.	.
400.	.	.	X	.	C	.	W	E	.	.	.
405.	.	.	X	.	C	.	W	E	.	.	.
410.	.	.	X	.	C	.	W	E	.	.	.
415.	.	.	X	.	C	.	W	E	.	.	.
420.	.	.	X	.	C	.	W	E	.	.	.
425.	.	.	X	.	C	.	W	E	.	.	.
430.	.	.	X	.	C	.	W	E	.	.	.
435.	.	.	X	.	C	.	W	E	.	.	.
440.	.	.	X	.	C	.	W	E	.	.	.
445.	.	.	X	.	C	.	W	E	.	.	.
450.	.	.	X	.	C	.	W	E	.	.	.
455.	.	.	X	.	C	.	W	E	.	.	.
460.	.	.	X	.	C	.	W	E	.	.	.
465.	.	.	X	.	C	.	W	E	.	.	.
470.	.	.	X	.	C	.	W	E	.	.	.
475.	.	.	X	.	C	.	W	E	.	.	.
480.	.	.	X	.	C	.	W	E	.	.	.
485.	.	.	X	.	C	.	W	E	.	.	.
490.	.	.	X	.	C	.	W	E	.	.	.
495.	.	.	X	.	C	.	W	E	.	.	.
500.	.	.	X	.	C	.	W	E	.	.	.
505.	.	.	X	.	C	.	W	E	.	.	.
510.	.	.	X	.	C	.	W	E	.	.	.
515.	.	.	X	.	C	.	W	E	.	.	.
520.	.	.	X	.	C	.	W	E	.	.	.
525.	.	.	X	.	C	.	W	E	.	.	.
530.	.	.	X	.	C	.	W	E	.	.	.
535.	.	.	X	.	C	.	W	E	.	.	.
540.	.	.	X	.	C	.	W	E	.	.	.

KEYSCRSF.OUT									
545.	.	.	X	.	C	.	W	E	.
550.	.	.	X	.	C	.	W	E	.
555.	.	.	X	.	C	.	W	E	.
560.	.	.	X	.	C	.	W	E	.
565.	.	.	X	.	C	.	W	E	.
570.	.	.	X	.	C	.	W	E	.
575.	.	.	X	.	C	.	W	E	.
580.	.	.	X	.	C	.	W	E	.
585.	.	.	X	.	C	.	W	E	.
590.	.	.	X	.	C	.	W	E	.
595.	.	.	X	.	C	.	W	E	.
600.	.	.	X	.	C	.	W	E	.
605.	.	.	X	.	C	.	W	E	.
610.	.	.	X	.	C	.	W	E	.
615.	.	.	X	.	C	.	W	E	.
620.	.	.	X	.	C	.	W	E	.
625.	.	.	X	.	C	.	W	E	.
630.	.	.	X	.	C	.	W	E	.
635.	.	.	X	.	C	.	W	E	.
640.	.	.	X	.	C	.	W	E	.
645.	.	.	X	.	C	.	W	E	.
650.	.	.	X	.	C	.	W	E	.
655.	.	.	X	.	C	.	W	E	.
660.	.	.	X	.	C	.	W	E	.
665.	.	.	X	.	C	.	W	E	.
670.	.	.	X	.	C	.	W	E	.
675.	.	.	X	.	C	.	W	E	.
680.	.	.	X	.	C	.	W	E	.
685.	.	.	X	.	C	.	W	E	.
690.	.	.	X	.	C	.	W	E	.
695.	.	.	X	.	C	.	W	E	.
700.	.	.	X	.	C	.	W	E	.
705.	.	.	X	.	C	.	W	E	.
710.	.	.	X	.	C	.	W	E	.
715.	.	.	X	.	C	.	W	E	.
720.	.	.	X	.	C	.	W	E	.
725.	.	.	X	.	C	.	W	E	.
730.	.	.	X	.	C	.	W	E	.
735.	.	.	X	.	C	.	W	E	.
740.	.	.	X	.	C	.	W	E	.
745.	.	.	X	.	C	.	W	E	.
750.	.	.	X	.	C	.	W	E	.
755.	.	.	X	.	C	.	W	E	.
17 760.	.	.	X	.	C	.	W	E	.
765.	.	.	X	.	C	.	W	E	.
770.	.	.	X	.	C	.	W	E	.
775.	.	.	X	.	C	.	W	E	.
780.	.	.	X	.	C	.	W	E	.
785.	.	.	X	.	C	.	W	E	.
790.	.	.	X	.	C	.	W	E	.
18 795.	.	.	X	.	C	.	W	E	.
19 800.	.	.	X	.	C	.	W	E	.
805.	.	.	.X	.	C	.	W	E	.
810.	.	.	. X	.	C	.	W	E	.

KEYSCRSF.OUT

815.	.	.	.	X	.	C	.	W	E	.	.	.	.	.	.
20 820.	.	.	.	X	.	C	.	W	E	.	.	.	.	.	.
825.	.	.	.	X	.	C	.	W	E	.	.	.	.	.	.
830.	.	.	.	X	.	C	.	W	E	.	.	.	.	.	.
21 835.	.	.	X	.	.	C	.	W	E	.	.	.	.	.	.
840.	.	.	.	X	.	C	.	W	E	.	.	.	.	.	.
845.	.	.	.	.	X	C	.	W	E	.	.	.	.	.	.
850.	.	.	.	.	X	C	.	W	E	.	.	.	.	.	.
855.	.	.	.	.	.	X	.	W	E	.	.	.	.	.	.
860.	.	.	.	.	.	.	X	.	W	E	.	.	.	.	.
22 865.	.	.	.	.	.	.	.	XW	E	.	.	.	.	.	.
870.	.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
875.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.
880.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.
885.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	.
890.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.
895.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	.
900.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	.
905.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.
910.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	.
915.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.
920.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.
925.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X
23 930.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1347.00	.00	1347.20	85.00	1344.40	155.00	1343.50	185.00	1341.30	232.00
1342.30	245.00	1341.50	248.00	1346.10	268.00	1341.20	279.00	1340.00	301.00
1337.20	324.00	1333.80	345.00	1331.10	345.10	1331.10	353.00	1333.80	353.10
1333.70	759.00	1333.60	793.00	1334.10	800.00	1334.40	818.00	1333.90	833.00
1336.30	863.00	1339.10	932.00	1340.00	984.00	1340.50	1043.00	1341.60	1114.00
1343.10	1220.00	1346.00	1305.00	1347.10	1333.00	1349.60	1395.00	1351.90	1450.00
1353.10	1493.00	1355.00	1514.00						

1

CROSS SECTION 321.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1331.1 1332.1 1333.1 1334.1 1335.1 1336.1 1337.1 1338.1 1339.1 1340.1 1341.1

STA-FEET

8560 XSEC POINT-T	EL,ST-	1355.00	.00							
8560 XSEC POINT-B	EL,ST-	.00	.00							
5 240. .	.	.	.	.	.	.	.	.	X.	.
8560 XSEC POINT-T	EL,ST-	1344.80	146.68							
8560 XSEC POINT-B	EL,ST-	.00	146.68							
6 245. .C	.	.	.	.	.	W.E	.	.	.	.

7	250.	.C	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	255.	X	.	B	.	T	.	.	W.T	.	.	.	.	.	.
8	260.	.C	.	B	.	T	.	.	W.T	.	.	.	.	.	.
8560	XSEC	POINT-B		EL,ST-		.00		234.08							
9	265.	.C	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	270.	.	.	B	.	T	.	.	.	.	.	.	.	.	X
	275.	.	.	B	.	T	.	.	.	.	.	.	.	.	X
	280.	.	.	B	.	T	.	.	.	.	.	.	.	.	X
	285.	.	.	B	.	T	.	.	.	.	.	.	.	.	X
	290.	.	.	B	.	T	.	.	.	.	.	.	.	.	X
	295.	.	.	B	.	T	.	.	.	.	.	.	.	.	X
8560	XSEC	POINT-B		EL,ST-		.00		302.48							
10	300.	.C	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	305.	.	.	B	X	.	T	.	W.T	.	.	.	.	.	.
	310.	.	.	XB	.	T	.	.	W.T	.	.	.	.	.	.
	315.	.	X	B	.	T	.	.	W.T	.	.	.	.	.	.
	320.	.	X	B	.	T	.	.	W.T	.	.	.	.	.	.
	325.	.	X	B	.	T	.	.	W.T	.	.	.	.	.	.
	330.	X	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	335.	X	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	340.	X	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	345.	X	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	350.	X	.	B	.	T	.	.	W.T	.	.	.	.	.	.
	355.	X	.	B	.	T	.	.	W.T	.	.	.	.	.	.
11	360.	.	.	X	.	T	.	.	W.T	.	.	.	.	.	.
	365.	.	.	B	X	.	T	.	W.T	.	.	.	.	.	.
	370.	.	.	B	.	X	T	.	W.T	.	.	.	.	.	.
	375.	.	.	B	.	X	.	T	W.T	.	.	.	.	.	.
	380.	.	.	B	.	T	X	.	W.T	.	.	.	.	.	.
	385.	.	.	B	.	T	.X	.	W.T	.	.	.	.	.	.
	390.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	395.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
12	400.	.	.	B	.	T	.	.X	W.T	.	.	.	.	.	.
	405.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	410.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	415.	.	.	B	.	T	.	X.	W.T	.	.	.	.	.	.
	420.	.	.	B	.	T	.	X.	W.T	.	.	.	.	.	.
	425.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	430.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	435.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	440.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	445.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	450.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	455.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	460.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	465.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	470.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	475.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	480.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.
	485.	.	.	B	.	T	.	.X	W.T	.	.	.	.	.	.
	490.	.	.	B	.	T	.	.X	W.T	.	.	.	.	.	.
	495.	.	.	B	.	T	.	X	W.T	.	.	.	.	.	.

										KEYSCRSF.OUT									
505.	.	B	.	T	X.	.	T	.	W.T	.	.	.	.	.	.				
510.	.	B	.	T	X.	.	T	.	W.T	.	.	.	.	.	.				
515.	.	B	.	T	X.	.	T	.	W.T	.	.	.	.	.	.				
520.	.	B	.	T	X.	.	T	.	W.T	.	.	.	.	.	.				
525.	.	B	.	T	X.	.	T	.	W.T	.	.	.	.	.	.				
530.	.	B	.	T	X.	.	TT	.	W.T	.	.	.	.	.	.				
535.	.	B	.	T	X.	.	TT	.	W.T	.	.	.	.	.	.				
540.	.	B	.	TX	.	.	TT	.	W.T	.	.	.	.	.	.				
545.	.	B	.	X	.	.	TT	.	W.T	.	.	.	.	.	.				
550.	.	B	.	X	.	.	TT	.	W.T	.	.	.	.	.	.				
555.	.	B	.	XT	.	.	TT	.	W.T	.	.	.	.	.	.				
560.	.	B	.	XT	.	.	TT	.	W.T	.	.	.	.	.	.				
565.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
570.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
575.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
580.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
585.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
590.	.	B	.	X.	T.	.	TT	.	W.T	.	.	.	.	.	.				
595.	.	B	.	X.	T.	.	TT	.	W.T	.	.	.	.	.	.				
600.	.	B	.	X.	T.	.	TT	.	W.T	.	.	.	.	.	.				
605.	.	B	.	X.	T.	.	TT	.	W.T	.	.	.	.	.	.				
610.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
615.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
620.	.	B	.	X	T.	.	TT	.	W.T	.	.	.	.	.	.				
625.	.	BX	.	T.	.	.	TT	.	W.T	.	.	.	.	.	.				
630.	.	BX	.	T.	.	.	TT	.	W.T	.	.	.	.	.	.				
8560	XSEC	POINT-B	EL,ST-	.00	635.36														
13	635.	.C	.	B	.	T.	.	TT	.	W.T	.	.	.	.	.				
640.	.	X	.	T.	.	T	.	TT	.	W.T	.	.	.	.	.				
645.	.	X	.	T.	.	T	.	TT	.	W.T	.	.	.	.	.				
650.	.	BX	.	T.	.	T	.	TT	.	W.T	.	.	.	.	.				
655.	.	B	X	.	T.	.	T	TT	.	W.T	.	.	.	.	.				
660.	.	B	X	.	T.	.	.	TT	.	W.T	.	.	.	.	.				
665.	.	B	X	.	T.	.	.	TT	.	W.T	.	.	.	.	.				
670.	.	B	X	.	T.	.	.	TT	T	W.T	.	.	.	.	.				
675.	.	B	X	.	T.	.	.	TT	T	W.T	.	.	.	.	.				
680.	.	B	X.	T.	.	.	.	TT	T	W.T	.	.	.	.	.				
685.	.	B	X	T.	.	.	.	TT	T	W.T	.	.	.	.	.				
690.	.	B	X	T.	.	.	.	TT	T	W.T	.	.	.	.	.				
695.	.	B	.X	T.	.	.	.	TT	.	T.T	.	.	.	.	.				
700.	.	B	.	X	T.	.	.	TT	.	W.T	.	.	.	.	.				
705.	.	B	.	X	T.	.	.	TT	.	W.T	T	.	.	.	.				
710.	.	B	.	XT	.	.	.	TT	.	W.T	T	.	.	.	.				
715.	.	B	.	X	.	.	.	TT	.	W.T	T	.	.	.	.				
720.	.	B	.	X	.	.	.	TT	.	W.T	T	.	.	.	.				
725.	.	B	.	TX	.	.	.	TT	.	W.T	T	.	.	.	.				
730.	.	B	.	T	X.	.	.	TT	.	W.T	T	.	.	.	.				
735.	.	B	.	T	X.	.	.	TT	.	W.T	T	.	.	.	.				
740.	.	B	.	T	X.	.	.	TT	.	W.T	T	.	.	.	.				
745.	.	B	.	T	X.	.	.	TT	.	W.T	T	.	.	.	.				
750.	.	B	.	T	X.	.	.	TT	.	W.T	T	.	.	.	.				
755.	.	B	.	T	X.	.	.	TT	.	W.T	T	.	.	.	.				
760.	.	B	.	T	X.	.	.	TT	.	W.T	T	.	.	.	.				
765.	.	B	.	T	.X	.	.	TT	.	W.T	T.	.	.	.	.				

KEYSCRSF.OUT

8560 XSEC POINT-B		EL,ST-	.00	770.64											
14	770.	.C	B	T	.	T	T	.	W.T	.	.	.	.T	.	.
	775.	.	B	T	.	X	T	T	W.T	.	.	.	.TT	.	.
	780.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	785.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	790.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	795.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	800.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	805.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	810.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	815.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	820.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	825.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	830.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	835.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	840.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	845.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	850.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	855.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	860.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	865.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
15	870.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	875.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	880.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	885.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	890.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	895.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	900.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	905.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	910.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	915.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	920.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	925.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	930.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	935.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	940.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	945.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	950.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	955.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	960.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	965.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	970.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	975.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	980.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	985.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	990.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	995.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	1000.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	1005.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
	1010.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.
161015.	.	.	B	T	.	X	T	T	W.T	.	.	.	.T	T	.

NRD= 20 ELLC= -999999.00 ELTRD= 1332.90

KEYSCRSF.OUT									
.00	.00	1355.00	99.56	.00	1350.60	146.68	.00	1344.80	
183.16	.00	1341.60	234.08	.00	1337.20	260.68	.00	1333.50	
260.76	1332.50	1333.50	266.76	1332.50	1333.50	266.84	.00	1333.50	
272.84	.00	1333.00	302.48	.00	1335.70	488.68	.00	1332.90	
635.36	.00	1335.50	659.68	.00	1334.90	770.64	.00	1340.20	
978.12	.00	1344.90	1036.64	.00	1349.40	1161.28	.00	1355.00	
EL(I),STA(I)									
1354.50	.00	1350.00	131.00	1344.30	193.00	1341.00	241.00	1336.70	308.00
1333.00	343.00	1331.10	343.10	1331.10	351.00	1333.00	351.10	1332.50	359.00
1335.20	398.00	1332.40	643.00	1335.00	836.00	1334.40	868.00	1339.70	1014.00
1344.40	1287.00	1354.00	1364.00	1354.50	1528.00				

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CROSS SECTION 322.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	1331.3	1332.3	1333.3	1334.3	1335.3	1336.3	1337.3	1338.3	1339.3	1340.3	1341.3
STA-Feet											
190.	.	.	.	.	.	.	.	. X	.	.	.
6 195.	.	.	.	.	.	.	.	. X	.	.	.
200.	.	.	.	.	.	.	.	X .E	.	.	.
205.	.	.	.	.	.	.	. X	.E	.	.	.
210.	.	.	.	.	.	.	X .W	.E	.	.	.
215.	.	.	.	.	.	. X	.W	.E	.	.	.
7 220.	.	.	.	.	X	.	.W	.E	.	.	.
225.	.	.	.	.	X	.	.W	.E	.	.	.
230.	.	.	.	.	X	.	.W	.E	.	.	.
235.	.	.	.	.	X	.	.W	.E	.	.	.
8 240.	.	.	.	.	X	.	.W	.E	.	.	BANK.
9 245.	.	.	.	X	.	.	.W	.E	.	.	.
250.	.	.	X	.	.	.	.W	.E	.	.	.
255.	. X	.	.	.	.	.	.W	.E	.	.	.
10 260.	. X	.	.	.	.	.	.W	.E	.	.	.
265.	. X	.	.	.	.	.	.W	.E	.	.	.
270.	X	.	.	.	.	.	.W	.E	.	.	.
11 275.	X	.	.	.	.	.	.W	.E	.	.	.
12 280.	.	.	.	X	.	.	.W	.E	.	.	.
285.	.	.	.	X.	.	.	.W	.E	.	.	.
290.	.	.	.	.	X	.	.W	.E	.	.	.
13 295.	.	.	.	.	X	.	.W	.E	.	.	BANK.
300.	.	.	.	.	X	.	.W	.E	.	.	.
305.	.	.	.	.	X	.	.W	.E	.	.	.
310.	.	.	.	.	X	.	.W	.E	.	.	.
315.	.	.	.	.	X	.	.W	.E	.	.	.
320.	.	.	.	.	X	.	.W	.E	.	.	.
325.	.	.	.	.	X	.	.W	.E	.	.	.
330.	.	.	.	.	X	.	.W	.E	.	.	.
335.	.	.	.	.	X	.	.W	.E	.	.	.

KEYSCRSF.OUT

14	340.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	345.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	350.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	355.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	360.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	365.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	370.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	375.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	380.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	385.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	390.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	395.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	400.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	405.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	410.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	415.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	420.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	425.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	430.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
15	435.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	440.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	445.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	450.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	455.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	460.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	465.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	470.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	475.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	480.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	485.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	490.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	495.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
16	500.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	505.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	510.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	515.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	520.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	525.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	530.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	535.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	540.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	545.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	550.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	555.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	560.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	565.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	570.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
17	575.	.	.	.	.	.	X	.	.	W	E	.	.	.	.	.	.
	580.	.	.	.	.	.	X	.	.	W							

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                                KEYSCRSF.OUT
610. . . . X. . .W .E . . . .
615. . . . . X . .W .E . . . .
620. . . . . X . .W .E . . . .
19 625. . . . . X. .W .E . . . .
630. . . . . .X .W .E . . . .
635. . . . . . X .W .E . . . .
640. . . . . . X .W .E . . . .
645. . . . . . X .W .E . . . .
650. . . . . . X .W .E . . . .
655. . . . . .X.W .E . . . .
660. . . . . .X .E . . . .
665. . . . . . X .E . . . .
670. . . . . . X .E . . . .
675. . . . . . X .E . . . .
20 680. . . . . . X .E . . . .

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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1360.00	.00	1358.90	34.00	1352.60	77.00	1342.50	155.00	1338.50	193.00
1335.70	221.00	1335.80	240.00	1334.50	247.00	1331.50	262.00	1331.30	273.00
1334.90	281.00	1335.70	293.00	1335.50	371.00	1335.70	435.00	1335.80	499.00
1334.60	573.00	1334.80	607.00	1336.20	625.00	1338.00	678.00	1339.80	753.00
1342.40	785.00	1346.00	830.00	1349.20	851.00	1350.60	863.00	1351.50	889.00
1350.30	917.00	1349.60	931.00	1346.00	934.00	1346.60	1032.00	1347.10	1067.00
1352.90	1092.00	1360.00	1109.00						

1

CROSS SECTION 323.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1333.9 1334.9 1335.9 1336.9 1337.9 1338.9 1339.9 1340.9 1341.9 1342.9 1343.9

STA-FEET

5	85. .	.	.	.	.	X	E	.	.	.	.	.	.
	90. .	.	.	.	.	X	W	E	.	.	.	.	.
	95. .	.	.	.	X	C	W	E	.	.	.	.	.
6	100. .	.	.	.	X	C	W	E	.	.	.	.	.
	105. .	.	.	.	X	C	W	E	.	.	.	.	.
	110. .	.	.	.	X	C	W	E	.	.	.	.	.
	115. .	.	.	.	X	C	W	E	.	.	.	.	.
	120. .	.	.	.	X	C	W	E	.	.	.	.	.
7	125. .	.	.	.	X	C	W	E	.	.	.	.	BANK.
	130. .	.	X	.	.	C	W	E	.	.	.	.	.
8	135. X	.	.	.	.	C	W	E	.	.	.	.	.
9	140. X	.	.	.	.	C	W	E	.	.	.	.	.
	145. .	X	.	.	.	C	W	E	.	.	.	.	.
	150. .	.	.	X	.	C	W	E	.	.	.	.	.
10	155. .	.	.	X	.	C	W	E	.	.	.	.	BANK.

[illegible]

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                                KEYSCRSF.OUT
430. . . . X . . . C W E . . . . .
435. . . . X . . . C W E . . . . .
440. . . . X . . . C W E . . . . .
16 445. . . . X . . . C W E . . . . .
450. . . . X . . . C W E . . . . .
455. . . . X . . . C W E . . . . .
460. . . . X . . . C W E . . . . .
465. . . . X . . . C W E . . . . .
470. . . . X . . . C W E . . . . .
17 475. . . . X . . . C W E . . . . .
480. . . . X . . . C W E . . . . .
485. . . . X . . . C W E . . . . .
490. . . . X . . . C W E . . . . .
18 495. . . . X. . . C W E . . . . .
500. . . . .X . . C W E . . . . .
505. . . . .X . . C W E . . . . .
510. . . . .X . . C W E . . . . .
515. . . . .X . . C W E . . . . .
19 520. . . . .X . . C W E . . . . .
525. . . . .X . . C W E . . . . .
530. . . . .X . . C W E . . . . .
535. . . . .X . . C W E . . . . .
20 540. . . . .X . . C W E . . . . .

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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1365.00	.00	1347.40	46.00	1340.00	73.00	1339.00	87.00	1337.30	102.00
1336.40	125.00	1333.90	136.00	1333.90	141.00	1336.10	155.00	1336.70	175.00
1335.80	224.00	1336.90	270.00	1335.60	336.00	1336.20	405.00	1336.40	446.00
1336.30	473.00	1336.80	495.00	1337.60	520.00	1339.60	540.00	1341.70	564.00
1343.00	608.00	1344.60	639.00	1346.00	659.00	1347.20	670.00	1346.30	682.00
1346.70	721.00	1348.00	763.00	1349.30	795.00	1351.70	829.00	1354.40	864.00
1356.60	890.00	1360.50	920.00	1365.00	953.00				

1

CROSS SECTION 324.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1337.4 1339.4 1341.4 1343.4 1345.4 1347.4 1349.4 1351.4 1353.4 1355.4 1357.4

STA-FEET

3	25. .	.	.	.	.	.	.	.	.	. X	.	BANK.
	30. .	.	.	.	.	.	.	.	X	.	.	.
	35. .	.	.	.	.	.	.	X	.	.	.	.
	40. .	.	.	.	.	X	.	.	.	.	.	.
	45. .	.	.	.	X	.	.	.	.	.	.	.
	50. .	.	.	X E	.	.	.	.	.	.	.	.
	55. .	.	X .	W . E	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

	60.	.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.
4	65.	.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.
	70.	.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.
5	75.	X	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.
	80.	X	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.
6	85.	X	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.
7	90.	.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.
	95.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.
	100.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
8	105.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	BANK	.
	110.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	115.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	120.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	125.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	130.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	135.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	140.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	145.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	150.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	155.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
9	160.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	165.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	170.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	175.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	180.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	185.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	190.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	195.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
10	200.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	205.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	210.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	215.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	220.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	225.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	230.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	235.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	240.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	245.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
11	250.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	255.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	260.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	265.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	270.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	275.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	280.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	285.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
12	290.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	295.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	300.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	305.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	310.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	315.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	320.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
	325.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

330.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
335.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
340.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
345.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
13 350.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
355.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
360.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
365.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
370.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
375.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
380.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
385.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
390.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
395.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
400.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
405.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
14 410.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
415.	.	X	.	W	.	E	.	.	.	.	.	.	.	.
420.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.
425.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.
430.	.	. X	.	W	.	E	.	.	.	.	.	.	.	.
435.	.	. X	.	W	.	E	.	.	.	.	.	.	.	.
440.	.	. X	.	W	.	E	.	.	.	.	.	.	.	.
15 445.	.	. X	.	W	.	E	.	.	.	.	.	.	.	.
16 450.	.	.	.	. X	.	.	.	.	.	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1370.00	.00	1355.80	27.00	1337.80	63.00	1337.40	73.00	1337.40	83.00
1339.50	89.00	1340.60	103.00	1339.80	160.00	1340.80	201.00	1340.30	252.00
1339.90	292.00	1341.40	351.00	1341.40	412.00	1342.00	444.00	1344.10	452.00
1345.40	467.00	1348.70	478.00	1349.20	490.00	1357.30	502.00	1358.70	514.00
1362.50	530.00	1361.00	550.00	1358.00	568.00	1355.90	582.00	1353.10	625.00
1352.00	644.00	1352.40	671.00	1350.80	707.00	1350.00	729.00	1352.30	782.00
1354.00	826.00	1358.50	893.00	1360.70	935.00	1364.00	992.00	1370.00	1045.00

1

CROSS SECTION 325.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1339.7 1340.7 1341.7 1342.7 1343.7 1344.7 1345.7 1346.7 1347.7 1348.7 1349.7

STA-FEET

4 75.	.	.	.	.	.	.	.	.	.	X	.	.
80.	.	.	.	.	.	.	.	.	X	.	.	.
85.	.	.	.	.	.	.	.	X	E	.	.	.
5 90.	.	.	.	.	.	.	X	W	E	.	.	.
95.	.	.	.	.	.	.	X	W	E	.	.	.

															KEYSCRSF.OUT									
	100.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	.	.	
	105.	.	.	.	.	.	.	.	.	.	.	.	.	.	X.	.	W	.	E	.	.	.	.	
	110.	.	.	.	.	.	.	.	.	.	.	.	.	.	.X	.	W	.	E	.	.	.	.	
6	115.	.	.	.	.	.	.	.	.	.	.	.	.	.	.X	.	W	.	E	.	.	.	BANK.	
	120.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	.	.	
	125.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	
	130.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	
	135.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	140.	.	.	.	.	.	.	.	.X	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
7	145.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	150.	.	.	.	.	X.	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
8	155.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	160.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
9	165.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	170.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
10	175.	.	.	.	.	X.	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	180.	.	.	.	.	.	X	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	185.	.	.	.	.	.	.	X	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	190.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
11	195.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	BANK.	
	200.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	
	205.	.	.	.	.	.	.	.	.	.	X.	.	.	.	.	W	.	E	.	.	.	.	.	
	210.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	W	.	E	.	.	.	.	.	
	215.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	
	220.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	
	225.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	W	.	E	.	.	.	.	.	
12	230.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	
	235.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	
	240.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	
	245.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	
	250.	.	.	.	.	.	.	.	.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	
	255.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	
	260.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	
	265.	.	.	.	.	.	.	.	.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	
	270.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	W	.	E	.	.	.	.	.	
	275.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	W	.	E	.	.	.	.	.	
	280.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	W	.	E	.	.	.	.	.	
	285.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	W	.	E	.	.	.	.	.	
13	290.	.	.	.	.	.	.	.	.	.	.	X	.	.	.	W	.	E	.	.	.	.	.	
	295.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	W	.	E	.	.	.	.	.	
	300.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	W	.	E	.	.	.	.	.	
14	305.	.	.	.	.	.	.	.	.	.	.	.	X	.	.	W	.	E	.	.	.	.	.	
	310.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	.	.	.	
	315.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	.	.	
	320.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	W	.	E	.	.	.	.	.	
	325.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	.	.	
15	330.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	.	.	.	
	335.	.	.	.	.	.	.	.	.	.	.	.	.	.	X.	.	W	.	E	.	.	.	.	
	340.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	.	
	345.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	.	
	350.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	.	
	355.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	E	
	360.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	.	
	365.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	X	.	W	

KEYSCRSF.OUT

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16 370. . . . . . . X W . E . . .
   375. . . . . . . X W . E . . .
   380. . . . . . . X W . E . . .
   385. . . . . . . X W . E . . .
   390. . . . . . . X W . E . . .
   395. . . . . . . X. W . E . . .
   400. . . . . . . X. W . E . . .
   405. . . . . . . X. W . E . . .
   410. . . . . . . X. W . E . . .
17 415. . . . . . . X. W . E . . .
   420. . . . . . . X . W . E . . .
   425. . . . . . . X . W . E . . .
   430. . . . . . . X . W . E . . .
18 435. . . . . . . X . W . E . . .
   440. . . . . . . X . W . E . . .
   445. . . . . . . X . W . E . . .
   450. . . . . . . X . W . E . . .
   455. . . . . . . X . W . E . . .
   460. . . . . . . X . W . E . . .
   465. . . . . . . X. W . E . . .
19 470. . . . . . . X W . E . . .
   475. . . . . . . .X W . E . . .
   480. . . . . . . . XW . E . . .
   485. . . . . . . . X . E . . .
   490. . . . . . . . X . E . . .
20 495. . . . . . . . X . E . . .

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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1375.00	.00	1351.80	55.00	1349.10	75.00	1346.20	92.00	1346.90	116.00
1343.20	146.00	1339.70	157.00	1340.00	166.00	1343.60	176.00	1344.80	195.00
1344.10	232.00	1344.50	291.00	1344.30	305.00	1345.40	328.00	1346.70	370.00
1346.60	414.00	1346.00	434.00	1346.70	471.00	1347.40	495.00	1349.70	525.00
1353.60	558.00	1357.00	586.00	1360.30	614.00	1362.10	639.00	1364.50	667.00
1366.70	682.00	1366.70	702.00	1366.60	715.00	1366.20	750.00	1364.90	775.00
1362.00	794.00	1360.70	806.00	1359.40	834.00	1358.50	850.00	1358.30	865.00
1359.00	883.00	1360.50	914.00	1362.90	952.00	1365.60	992.00	1368.70	1034.00
1375.00	1112.00								

1

CROSS SECTION 325.10
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1340.2 1342.2 1344.2 1346.2 1348.2 1350.2 1352.2 1354.2 1356.2 1358.2 1360.2

STA-FEET

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5 170. . . . . . X. . . . .
   175. . . . . . X . . . . .

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BANK.

BANK.

KEYSCRSF.OUT

450.	.	.	.	X	W	E	.	.	.	.	.	.
455.	.	.	.	X	W	E	.	.	.	.	.	.
460.	.	.	.	X	W	E	.	.	.	.	.	.
14 465.	.	.	.	X	W	E	.	.	.	.	.	.
470.	.	.	.	X	W	E	.	.	.	.	.	.
475.	.	.	.	X	W	E	.	.	.	.	.	.
480.	.	.	.	X	W	E	.	.	.	.	.	.
485.	.	.	.	X	W	E	.	.	.	.	.	.
490.	.	.	.	X	W	E	.	.	.	.	.	.
495.	.	.	.	X	W	E	.	.	.	.	.	.
500.	.	.	.	X	W	E	.	.	.	.	.	.
505.	.	.	.	X	W	E	.	.	.	.	.	.
510.	.	.	.	X	W	E	.	.	.	.	.	.
515.	.	.	.	X	W	E	.	.	.	.	.	.
520.	.	.	.	X	W	E	.	.	.	.	.	.
525.	.	.	.	X	W	E	.	.	.	.	.	.
530.	.	.	.	X	W	E	.	.	.	.	.	.
535.	.	.	.	X	W	E	.	.	.	.	.	.
540.	.	.	.	X	W	E	.	.	.	.	.	.
545.	.	.	.	X	W	E	.	.	.	.	.	.
550.	.	.	.	X	W	E	.	.	.	.	.	.
555.	.	.	.	X	W	E	.	.	.	.	.	.
560.	.	.	.	X	W	E	.	.	.	.	.	.
565.	.	.	.	X	W	E	.	.	.	.	.	.
570.	.	.	.	X	W	E	.	.	.	.	.	.
575.	.	.	.	X	W	E	.	.	.	.	.	.
580.	.	.	.	X	W	E	.	.	.	.	.	.
585.	.	.	.	X	W	E	.	.	.	.	.	.
590.	.	.	.	X	W	E	.	.	.	.	.	.
595.	.	.	.	X	W	E	.	.	.	.	.	.
15 600.	.	.	.	X	W	E	.	.	.	.	.	.
605.	.	.	.			X E	.	.	.	.	.	.
610.	.	.	.				.X	.	.	.	.	.
615.	.	.	.				X	.	.	.	.	.
620.	.	.	.					X.	.	.	.	.
16 625.	.	.	.						X.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1391.80	.00	1381.00	59.00	1364.30	140.00	1352.00	172.00	1348.00	203.00
1346.50	261.00	1345.50	302.00	1340.20	342.00	1340.20	343.00	1340.20	361.00
1340.20	362.00	1345.50	372.00	1347.00	465.00	1347.00	600.00	1356.00	626.00
1359.00	645.00	1356.00	655.00	1361.00	677.00	1364.00	730.00	1365.00	812.00
1366.50	829.00	1368.00	918.00	1365.00	945.00	1362.50	1000.00	1363.00	1050.00
1365.00	1098.00	1368.60	1150.00	1376.00	1252.00	1381.50	1310.00	1384.40	1334.00
1392.00	1425.00								

1

CROSS SECTION 325.30

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 6000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

KEYSCRSF.OUT

ELEV 1340.4 1342.4 1344.4 1346.4 1348.4 1350.4 1352.4 1354.4 1356.4 1358.4 1360.4

STA-FEET

195. .	.	.	.	.	.	X .	.	.	.	.	.
8560 XSEC POINT-B	EL,ST-	.00	198.00								
5 200. .	.	.	.	.	.	X .	T	.	.	.	.
205. .	.	.	.	.	.	X .	T T	.	.	.	.
210. .	.	.	.	.	.	X .	T T	.	.	.	.
215. .	.	.	.	.	.	X .	T .	T	.	.	.
220. .	.	.	.	.	.	X .	T .	T	.	.	.
225. .	.	.	.	.	.	.X	T .	T	.	.	.
230. .	.	.	.	.	.	XE	T .	T	.	.	.
6 235. .	.	.	.	.	.	XW.E	.	T	.	.	.
240. .	.	.	.	.	.	X W.T	.	T	.	.	.
245. .	.	.	.	.	.	X WTE	.	T	.	.	.
250. .	.	.	.	.	.	X T.E	.	T	.	.	.
255. .	.	.	.	.	.	X T W.E	.	T	.	.	.
260. .	.	.	.	.	.	X T W.E	.	T	.	.	.
265. .	.	.	.	.	.	.X T W.E	.	T	.	.	.
270. .	.	.	.	.	.	.X T W.E	.	T	.	.	.
275. .	.	.	.	.	.	X T W.E	.	T	.	.	.
280. .	.	.	.	.	.	XT W.E	.	T	.	.	.
285. .	.	.	.	.	.	XT W.E	.	T	.	.	.
290. .	.	.	.	.	.	XT W.E	.	T	.	.	.
295. .	.	.	.	.	.	T W.E	.	T	.	.	.
300. .	.	.	.	.	.	T W.E	.	T	.	.	.
8560 XSEC POINT-B	EL,ST-	.00	303.00								
7 305. .	.	.	.	.	.	W.E	.	T	.	.	.
310. .	.	.	.	.	.	TT W.E	.	T	.	.	.
315. .	.	.	.	.	.	.XTT W.E	.	T	.	.	.
320. .	.	.	.	.	.	.T T W.E	.	T	.	.	.
325. .	.	.	.	.	.	.XT T W.E	.	T	.	.	.
330. .	.	.	.	.	.	X T T W.E	.	T	.	.	.
335. .	.	.	.	.	.	X.T T W.E	.	T	.	.	.
340. .	.	.	.	.	.	X .T T W.E	.	T	.	.	.
345. .	.	.	.	.	.	X T T W.E	.	T	.	.	.
350. .	.	.	.	.	.	X T T W.E	.	T	.	.	.
355. .	.	.	.	.	.	X T. T W.E	.	T	.	.	.
360. .	.	.	.	.	.	X T. T W.E	.	T	.	.	.
365. .	.	.	.	.	.	X T. T W.E	.	T	.	.	.
8560 XSEC POINT-B	EL,ST-	.00	370.00								
8 370. .	.	.	.	.	.	W.E	.	T	.	.	.
375. .	.	.	.	.	.	W.E	.	T	.	.	.
380. .	.	.	.	.	.	W.E	.	T	.	.	.
385. .	.	.	.	.	.	W.E	.	T	.	.	.
10 390. XXXXXXXXX	B .	.	.	.	.	W.E	.	T	.	.	BANK .
395. X	B .	.	.	.	.	W.E	.	T	.	.	.
400. X	B .	.	.	.	.	W.E	.	T	.	.	.
405. X	B .	.	.	.	.	W.E	.	T	.	.	.
11 410. X	B .	.	.	.	.	W.E	.	T	.	.	BANK .
415. . X	B .	.	.	.	.	W.E	.	T	.	.	.

				KEYSCRSF.OUT													
420.	.	X	.	B	.	T	TT.	T	.	W.E	.	T	.	.	.	.	.
8560	XSEC	POINT-B		EL,ST-		.00		424.00									
12	425.	.C	.	B	.	T	T	T	T	.	W.E	.	T	.	.	.	.
	430.	.	.	B	.	T	T	T	T	.	W.E	.	T	.	.	.	.
	435.	.	.	B	.	T	T	XT	T	.	W.E	.	T	.	.	.	.
	440.	.	.	B	.	T	T	TX	T	.	W.E	.	T	.	.	.	.
	445.	.	.	B	.	T	T	T	X	T	W.E	.	T	.	.	.	.
	450.	.	.	B	.	T	T	T	XT	.	W.E	.	T	.	.	.	.
	455.	.	.	B	.	T	T	T	XT	.	W.E	.	T	.	.	.	.
	460.	.	.	B	.	T	T	T	X	.	W.E	.	T	.	.	.	.
	465.	.	.	B	.	T	T	T	TX	.	W.E	.	T	.	.	.	.
	470.	.	.	B	.	T	T	T	T	X	W.E	.	T	.	.	.	.
	475.	.	.	B	.	T	T	T	T	X	W.E	.	T	.	.	.	.
	480.	.	.	B	.	T	T	T	T	X	W.E	.	T	.	.	.	.
	485.	.	.	B	.	T	T	T	T	X	W.E	.	T	.	.	.	.
	490.	.	.	B	.	T	T	T	T	X	W.E	.	T	.	.	.	.
	495.	.	.	B	.	T	T	T	T	X	W.E	.	T	.	.	.	.
	500.	.	.	B	.	T	T	T	T	X	W.E	.	T	.	.	.	.
	505.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	510.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	515.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	520.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	525.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	530.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	535.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	540.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	545.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	550.	.	.	B	.	T	T	T	T	.X	W.E	.	T	.	.	.	.
	555.	.	.	B	.	T	T	T	T	.XW.E	W.E	.	T	.	.	.	.
	560.	.	.	B	.	T	T	T	T	.X.E	W.E	.	T	.	.	.	.
	565.	.	.	B	.	T	T	T	T	.XE	W.E	.	T	.	.	.	.
8560	XSEC	POINT-B		EL,ST-		.00		568.00									
13	570.	.	.	B	.	T	T	T	T	T.	W.E	.	T	.	.	.	.
	575.	.	.	B	.	T	T	T	T	T.	W.E	.	T	.	.	.	.
14	580.	.	.	B	.	T	T	T	T	T.	XW.E	.	T	.	.	.	.
	585.	.	.	B	.	T	T	T	T	T.	XTE	.	T	.	.	.	.
8560	XSEC	POINT-B		EL,ST-		.00		590.00									
15	590.	.	.	B	.	T	T	T	T	T.	XE T	.	T	.	.	.	.
	595.	.	.	B	.	T	T	T	T	T.	X.T T	.	T	.	.	.	.
16	600.	.	.	B	.	T	T	T	T	T.	XW.E T	.	T	.	.	.	.
	605.	.	.	B	.	T	T	T	T	T.	XT W.E T	.	T	.	.	.	.
8560	XSEC	POINT-B		EL,ST-		.00		611.00									
17	610.	.	.	B	.	T	T	T	T	TX T	W.E T	.	T	.	.	.	.
	615.	.	.	B	.	T	T	T	T	T.X T	T W.E T	.	T	.	.	.	.
	620.	.	.	B	.	T	T	T	T	T. XT	W.ETT	.	T	.	.	.	.
	625.	.	.	B	.	T	T	T	T	T. XT	W.E T	T	.	.	.	.	.
18	630.	.	.	B	.	T	T	T	T	T. X	W.E T	.	T	.	.	.	.
	635.	.	.	B	.	T	T	T	T	T. T	. X	.	T	T	.	.	.
	640.	.	.	B	.	T	T	T	T	T. T	. T	.	TX	T	.	.	.
	645.	.	.	B	.	T	T	T	T	T. T	. T	.	T	.	XT	.	.
8560	XSEC	POINT-B		EL,ST-		.00		648.00									
19	650.	.	.	B	.	T	T	T	T	T. T	. T	.	T	.	X T	.	.

NRD= 14 ELLC= 1344.00 ELTRD= 1345.70

KEYSCRSF.OUT

198.00	.00	1353.00	303.00	.00	1347.20	370.00	.00	1346.00
390.00	.00	1345.70	391.00	1344.00	1345.70	410.00	1344.00	1345.70
411.00	.00	1345.70	424.00	.00	1346.40	568.00	.00	1348.20
590.00	.00	1351.00	611.00	.00	1349.00	648.00	.00	1356.00

EL(I),STA(I)

1379.40	.00	1379.50	54.00	1372.40	107.00	1352.00	198.00	1350.00	235.00
1347.20	303.00	1345.00	370.00	1341.90	390.00	1340.40	391.00	1340.40	410.00
1346.20	500.00	1348.20	568.00	1350.00	580.00	1350.50	590.00	1350.00	600.00
1348.50	611.00	1349.00	632.00	1355.70	648.00	1360.00	665.00	1363.50	700.00
1365.00	770.00	1366.40	833.00	1367.00	894.00	1364.80	952.00	1361.80	1050.00
1365.00	1115.00	1367.70	1187.00	1369.80	1240.00	1375.00	1290.00	1383.60	1356.00
1387.00	1396.00	1389.00	1422.00	1392.40	1460.00				

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CROSS SECTION 327.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1341.1 1343.1 1345.1 1347.1 1349.1 1351.1 1353.1 1355.1 1357.1 1359.1 1361.1

STA-FEET

7	220.	.	.	.	.	.	.X	.	.	.	.	.
	225.	.	.	.	.	.	X	.	.	.	.	.
	230.	.	.	.	.	.	X.	.	.	.	.	.
	235.	.	.	.	.	.	X	.	.	.	.	.
	240.	.	.	.	.	.	X	.	.	.	.	.
	245.	.	.	.	.	.	XE	.	.	.	.	.
	250.	.	.	.	.	.	X E	.	.	.	.	.
	255.	.	.	.	.	.	X E	.	.	.	.	.
	260.	.	.	.	.	.	X E	.	.	.	.	.
	265.	.	.	.	.	.	.X E	.	.	.	.	.
	270.	.	.	.	.	.	X E	.	.	.	.	.
	275.	.	.	.	.	.	X.	E	.	.	.	.
	280.	.	.	.	.	.	XW	E	.	.	.	.
8	285.	.	.	.	.	.	XW	E	.	.	.	.
	290.	.	.	.	.	.	X W	E	.	.	.	.
	295.	.	.	.	.	.	X W	E	.	.	.	.
	300.	.	.	.	.	.	X W	E	.	.	.	.
	305.	.	.	.	.	.	X W	E	.	.	.	.
	310.	.	.	.	.	.	X W	E	.	.	.	.
	315.	.	.	.	.	.	X W	E	.	.	.	.
	320.	.	.	.	.	.	X W	E	.	.	.	.
	325.	.	.	.	.	.	.X W	E	.	.	.	.
	330.	.	.	.	.	.	.X W	E	.	.	.	.
	335.	.	.	.	.	.	X W	E	.	.	.	.
	340.	.	.	.	.	.	X.	W	E	.	.	.
9	345.	.	.	.	.	.	X.	W	E	.	.	.
	350.	.	.	.	.	.	X	W	E	.	.	.
	355.	.	.	.	.	.	X	W	E	.	.	.

										KEYSCRSF.OUT										
	360.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	365.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	370.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	375.	.	.	.	.	X.	.	W	E	.	.	.	.	.	.	.	.	.	.	
10	380.	.	.	.	X	.	.	W	E	.	.	.	.	.	.	.	.	BANK.	.	
	385.	.	.	X	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	390.	.	X	.	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	395.	.	X	.	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
11	400.	.	X	.	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	405.	.	X	.	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	410.	X	.	.	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
12	415.	X	.	.	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	420.	.	X	.	.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
13	425.	.	.	.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	430.	.	.	.	X.	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	435.	.	.	.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	440.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
14	445.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	BANK.	.	
	450.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	455.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	460.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	465.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
15	470.	.	.	.	.	X.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	475.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	480.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	485.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	490.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
	495.	.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	
16	500.	.	.	.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	
	505.	.	.	.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	
	510.	.	.	.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	
	515.	.	.	.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	
	520.	.	.	.	.	.	XW	E	.	.	.	.	.	.	.	.	.	.	.	
	525.	.	.	.	.	.	XW	E	.	.	.	.	.	.	.	.	.	.	.	
	530.	.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	
	535.	.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	
	540.	.	.	.	.	.	X.	E	.	.	.	.	.	.	.	.	.	.	.	
	545.	.	.	.	.	.	X.	E	.	.	.	.	.	.	.	.	.	.	.	
	550.	.	.	.	.	.	X.	E	.	.	.	.	.	.	.	.	.	.	.	
	555.	.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	
	560.	.	.	.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	
	565.	.	.	.	.	.	.X	E	.	.	.	.	.	.	.	.	.	.	.	
	570.	.	.	.	.	.	.X	E	.	.	.	.	.	.	.	.	.	.	.	
	575.	.	.	.	.	.	.X	E	.	.	.	.	.	.	.	.	.	.	.	
	580.	.	.	.	.	.	.X	E	.	.	.	.	.	.	.	.	.	.	.	
17	585.	.	.	.	.	.	.X	E	.	.	.	.	.	.	.	.	.	.	.	

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1375.00	.00	1369.80	35.00	1368.10	63.00	1360.40	121.00	1356.10	164.00
1353.30	221.00	1350.50	283.00	1348.80	344.00	1346.50	382.00	1342.50	401.00
1341.10	413.00	1346.50	427.00	1348.00	445.00	1348.80	471.00	1350.10	500.00
1351.60	585.00	1352.10	604.00	1354.50	641.00	1356.20	659.00	1358.60	686.00

					KEYSCRSF.OUT					
1359.70	711.00	1360.30	738.00	1360.80	782.00	1361.00	820.00	1361.60	854.00	
1361.30	880.00	1360.70	918.00	1360.00	979.00	1360.70	1049.00	1362.40	1112.00	
1365.30	1174.00	1367.60	1231.00	1372.40	1291.00	1375.00	1310.00			

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CROSS SECTION 328.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	1341.1	1343.1	1345.1	1347.1	1349.1	1351.1	1353.1	1355.1	1357.1	1359.1	1361.1
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STA-FEET

	195.	.	.	.	.	.	X	E.	.	.	.	.	.
7	200.	.	.	.	.	.	X	E.	.	.	.	.	.
	205.	.	.	.	.	.	X	E.	.	.	.	.	.
	210.	.	.	.	.	.	X	E.	.	.	.	.	.
	215.	.	.	.	.	.	X	E.	.	.	.	.	.
	220.	.	.	.	.	.	X	E.	.	.	.	.	.
	225.	.	.	.	.	.	X	E.	.	.	.	.	.
	230.	.	.	.	.	.	X	E.	.	.	.	.	.
	235.	.	.	.	.	.	X	E.	.	.	.	.	.
	240.	.	.	.	.	.	X	E.	.	.	.	.	.
	245.	.	.	.	.	.	X	E.	.	.	.	.	.
	250.	.	.	.	.	.	X	E.	.	.	.	.	.
8	255.	.	.	.	.	.	X	E.	.	.	.	.	.
	260.	.	.	.	.	.	XW	E.	.	.	.	.	.
	265.	.	.	.	.	.	XW	E.	.	.	.	.	.
	270.	.	.	.	.	.	X W	E.	.	.	.	.	.
	275.	.	.	.	.	.	X W	E.	.	.	.	.	.
	280.	.	.	.	.	.	X W	E.	.	.	.	.	.
	285.	.	.	.	.	.	X W	E.	.	.	.	.	.
	290.	.	.	.	.	.	X. W	E.	.	.	.	.	.
	295.	.	.	.	.	.	X. W	E.	.	.	.	.	.
	300.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	305.	.	.	.	.	.	X . W	E.	.	.	.	.	.
9	310.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	315.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	320.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	325.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	330.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	335.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	340.	.	.	.	.	.	X . W	E.	.	.	.	.	.
10	345.	.	.	.	.	.	X . W	E.	.	.	.	.	BANK.
	350.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	355.	.	.	.	.	.	X. W	E.	.	.	.	.	.
	360.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	365.	.	.	.	.	.	X . W	E.	.	.	.	.	.
	370.	.	.	.	.	.	X . W	E.	.	.	.	.	.
11	375.	.	.	.	.	.	X. W	E.	.	.	.	.	.
	380.	.	.	.	.	.	X . W	E.	.	.	.	.	.

										KEYSCRSF.OUT									
385.	.	.	.	.X	.	.	.	.	W	E.	.	.	.	.	.	.			
390.	.	.	X	.	.	.	.	.	W	E.	.	.	.	.	.	.			
395.	.	.	X	.	.	.	.	.	W	E.	.	.	.	.	.	.			
400.	.	X.	.	.	.	.	.	.	W	E.	.	.	.	.	.	.			
405.	.	X	.	.	.	.	.	.	W	E.	.	.	.	.	.	.			
12 410.	X	.	.	.	.	.	.	.	W	E.	.	.	.	.	.	.			
415.	.	.	X	.	.	.	.	.	W	E.	.	.	.	.	.	.			
13 420.	.	.	.	.	.	X	.	.	W	E.	.	.	.	.	BANK.	.			
425.	.	.	.	.	.	X	.	.	W	E.	.	.	.	.	.	.			
430.	.	.	.	.	.	X.	.	.	W	E.	.	.	.	.	.	.			
435.	.	.	.	.	.	X	.	.	W	E.	.	.	.	.	.	.			
440.	.	.	.	.	.	.X	.	.	W	E.	.	.	.	.	.	.			
445.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
14 450.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
455.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
460.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
465.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
470.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
15 475.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
480.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
485.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
490.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
495.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
16 500.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
505.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
510.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
515.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
520.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
525.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
530.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
535.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
540.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
545.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
17 550.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
555.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
560.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
565.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
570.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
575.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
18 580.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
585.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
590.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
19 595.	.	.	.	.	.	. X	.	.	W	E.	.	.	.	.	.	.			
600.	.	.	.	.	.	.X	.	.	W	E.	.	.	.	.	.	.			
605.	.	.	.	.	.	. XW	.	.	E.	E.	.	.	.	.	.	.			
610.	.	.	.	.	.	. X	.	.	E.	E.	.	.	.	.	.	.			
615.	.	.	.	.	.	. X	.	.	E.	E.	.	.	.	.	.	.			
620.	.	.	.	.	.	. X	.	.	E.	E.	.	.	.	.	.	.			
20 625.	.	.	.	.	.	. X	.	.	E.	E.	.	.	.	.	.	.			

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1375.00	.00	1363.70	57.00	1358.70	99.00	1356.60	126.00	1354.80	163.00

KEYSCRSF.OUT									
1352.20	198.00	1351.60	254.00	1350.50	311.00	1350.10	347.00	1346.90	373.00
1341.10	409.00	1348.40	421.00	1349.60	448.00	1349.70	477.00	1349.90	500.00
1351.10	549.00	1350.80	581.00	1351.00	596.00	1352.20	623.00	1353.40	637.00
1352.70	643.00	1354.00	654.00	1356.90	693.00	1358.90	736.00	1360.30	769.00
1360.30	809.00	1360.10	830.00	1359.00	846.00	1360.00	890.00	1360.40	941.00
1360.50	997.00	1361.60	1048.00	1362.40	1115.00	1364.60	1168.00	1367.80	1227.00
1370.90	1264.00	1375.00	1302.00						

1
CROSS SECTION 329.00
STREAM IRF WITH UNNAMED WASH CO
DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	1348.9	1349.9	1350.9	1351.9	1352.9	1353.9	1354.9	1355.9	1356.9	1357.9	1358.9
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STA-FEET

335. .	.	.	.	.	.	.	.	.	.	X	E.
9 340. .	.	.	.	.	.	.	.	.	.	X	E.
345. .	.	.	.	.	.	.	.	.	.	X	E.
350. .	.	.	.	.	.	.	.	.	.	X	E.
355. .	.	.	.	.	.	.	.	.	X	W	E.
360. .	.	.	.	.	.	.	.	X	W	.	E.
365. .	.	.	.	.	.	.	.	.	W	.	E.
370. .	.	.	.	.	.	.	.	X	W	.	E.
375. .	.	.	.	.	.	.	.	X	W	.	E.
380. .	.	.	.	.	.	.	X	.	W	.	E.
10 385. .	.	.	.	.	.	.	X	.	W	.	E.
390. .	.	.	.	.	.	X	.	.	W	.	E.
395. .	.	.	.	.	.	X	.	.	W	.	E.
400. .	.	.	.	.	.	X	.	.	W	.	E.
11 405. .	.	.	.	.	X	.	.	.	W	.	E.
410. .	.	.	.	.	X	.	.	.	W	.	E.
415. .	.	.	.	.	X	.	.	.	W	.	E.
420. .	.	.	.	.	X	.	.	.	W	.	E.
12 425. .	.	.	.	X	.	.	.	.	W	.	E. BANK.
430. .	.	.	X	.	.	.	.	.	W	.	E.
13 435. .	.	X	.	.	.	.	.	.	W	.	E.
14 440. .X	.	.	.	.	.	.	.	.	W	.	E.
445. X	.	.	.	.	.	.	.	.	W	.	E.
15 450. X	.	.	.	.	.	.	.	.	W	.	E.
16 455. . X	.	.	.	.	.	.	.	.	W	.	E.
460. .	.	X	.	.	.	.	.	.	W	.	E.
17 465. .	.	.	X	.	.	.	.	.	W	.	E.
470. .	.	.	.	X	.	.	.	.	W	.	E.
475. .	.	.	.	.	X	.	.	.	W	.	E.
480. .	.	.	.	.	.	X	.	.	W	.	E.
18 485. .	.	.	.	.	.	X	.	.	W	.	E.
490. .	.	.	.	.	.	.	X	.	W	.	E.
495. .	.	.	.	.	.	.	X	.	W	.	E.
19 500. .	.	.	.	.	.	.	.	X	W	.	E. BANK.

KEYSCRSF.OUT

	505.	.	.	.	.	.	X.	.	W	.	E.	.
	510.	.	.	.	.	.	.X	.	W	.	E.	.
	515.	.	.	.	.	.	.X	.	W	.	E.	.
20	520.	.	.	.	.	.	.X	.	W	.	E.	.
	525.	.	.	.	.	.	.X	.	W	.	E.	.
	530.	.	.	.	.	.	.X	.	W	.	E.	.
	535.	.	.	.	.	.	.X	.	W	.	E.	.
	540.	.	.	.	.	.	.X	.	W	.	E.	.
21	545.	.	.	.	.	.	.X	.	W	.	E.	.
	550.	.	.	.	.	.	.X	.	W	.	E.	.
	555.	.	.	.	.	.	.X	.	W	.	E.	.
	560.	.	.	.	.	.	.X	.	W	.	E.	.
	565.	.	.	.	.	.	.X	.	W	.	E.	.
	570.	.	.	.	.	.	.X	.	W	.	E.	.
	575.	.	.	.	.	.	.X	.	W	.	E.	.
	580.	.	.	.	.	.	.X	.	W	.	E.	.
	585.	.	.	.	.	.	.X	.	W	.	E.	.
	590.	.	.	.	.	.	.X	.	W	.	E.	.
	595.	.	.	.	.	.	.X	.	W	.	E.	.
22	600.	.	.	.	.	.	.X	.	W	.	E.	.
	605.	.	.	.	.	.	.X	.	W	.	E.	.
	610.	.	.	.	.	.	.X	.	W	.	E.	.
	615.	.	.	.	.	.	.X	.	W	.	E.	.
	620.	.	.	.	.	.	.XW	.		.	E.	.
	625.	.	.	.	.	.	.XW	.		.	E.	.
	630.	.	.	.	.	.	.XW	.		.	E.	.
	635.	.	.	.	.	.	.X	.		.	E.	.
	640.	.	.	.	.	.	.X	.		.	E.	.
	645.	.	.	.	.	.	.X	.		.	E.	.
	650.	.	.	.	.	.	.X	.		.	E.	.
	655.	.	.	.	.	.	.X	.		.	E.	.
	660.	.	.	.	.	.	.X	.		.	E.	.
23	665.	.	.	.	.	.	.X	.		.	E.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1375.00	.00	1368.70	24.00	1368.00	38.00	1366.00	61.00	1365.10	114.00
1361.90	200.00	1359.10	295.00	1358.30	339.00	1354.90	383.00	1353.20	405.00
1352.80	425.00	1350.70	437.00	1349.00	440.00	1348.90	450.00	1349.10	457.00
1351.10	466.00	1353.40	484.00	1355.60	502.00	1356.20	519.00	1356.60	547.00
1357.00	602.00	1357.50	665.00	1358.90	683.00	1357.70	711.00	1358.70	767.00
1358.90	825.00	1359.10	849.00	1359.20	879.00	1359.60	887.00	1360.60	1000.00
1361.70	1109.00	1363.60	1188.00	1364.70	1251.00	1364.20	1296.00	1365.40	1325.00
1367.10	1353.00	1368.60	1368.00	1370.00	1391.00	1371.50	1404.00	1375.00	1412.00

1

CROSS SECTION 330.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1356.3 1357.3 1358.3 1359.3 1360.3 1361.3 1362.3 1363.3 1364.3 1365.3 1366.3

STA-FEET															
9	690.	.	.	.	.	.	.	.	X	E	.	.	.	.	.
	695.	.	.	.	.	.	.	.	.X	E	.	.	.	.	.
	700.	.	.	.	.	.	.	.	X	E	.	.	.	.	.
	705.	.	.	.	.	.	.	.	X	E	.	.	.	.	.
	710.	.	.	.	.	.	.	.	X	E	.	.	.	.	.
	715.	.	.	.	.	.	.	.	X	E	.	.	.	.	.
	720.	.	.	.	.	.	.	.	X	E	.	.	.	.	.
	725.	.	.	.	.	.	.	.	X	E	.	.	.	.	.
	730.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	735.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
10	740.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	745.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	750.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	755.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	760.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	765.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	770.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	775.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	780.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	785.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
11	790.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	795.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	800.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
12	805.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
13	810.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
14	815.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	820.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	825.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
16	830.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	835.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	840.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	845.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	850.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	855.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	860.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	865.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
17	870.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	875.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
18	880.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	885.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	890.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	895.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	900.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	905.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	910.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
19	915.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	920.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	925.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	930.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.
	935.	.	.	.	.	.	.	.	X W	E	.	.	.	.	.

BANK.

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                                KEYSCRSF.OUT
940. . . . . X . W . E . . . . .
20 945. . . . . . X . W . E . . . . . BANK.
950. . . . . . X . W . E . . . . .
955. . . . . . X . W . E . . . . .
960. . . . . . X . W . E . . . . .
965. . . . . . X . W . E . . . . .
21 970. . . . . . X . W . E . . . . .
975. . . . . . X . W . E . . . . .
980. . . . . . X . W . E . . . . .
985. . . . . . X . W . E . . . . .
990. . . . . . X W . E . . . . .
995. . . . . . .XW . E . . . . .
1000. . . . . . . X . E . . . . .
1005. . . . . . . X . E . . . . .
1010. . . . . . . X . E . . . . .
1015. . . . . . . X . E . . . . .
1020. . . . . . . X . E . . . . .
1025. . . . . . . X . E . . . . .
1030. . . . . . . X . E . . . . .
1035. . . . . . . X . E . . . . .
1040. . . . . . . X . E . . . . .
1045. . . . . . . X . E . . . . .
1050. . . . . . . X . E . . . . .
1055. . . . . . . X . E . . . . .
1060. . . . . . . .X . E . . . . .
221065. . . . . . . . X E . . . . .

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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

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EL(I),STA(I)
1380.00 .00 1376.60 54.00 1373.00 195.00 1371.20 308.00 1369.70 421.00
1367.00 518.00 1364.90 614.00 1362.60 690.00 1360.90 742.00 1359.00 789.00
1357.00 805.00 1356.30 809.00 1356.30 815.00 1356.60 828.00 1357.40 832.00
1357.70 868.00 1357.00 882.00 1358.60 916.00 1360.70 947.00 1361.00 971.00
1362.50 1066.00 1365.10 1239.00 1366.60 1356.00 1366.80 1425.00 1367.60 1500.00
1368.30 1586.00 1369.90 1706.00 1370.90 1784.00 1372.10 1878.00 1372.10 1941.00
1372.80 2006.00 1372.80 2045.00 1373.60 2056.00 1372.60 2097.00 1381.00 2111.00
1381.30 2120.00 1380.00 2142.00 1379.80 2149.00 1374.50 2163.00 1374.60 2235.00
1374.50 2322.00 1375.60 2369.00 1375.30 2418.00 1377.30 2456.00 1379.20 2500.00
1380.80 2532.00 1382.50 2571.00 1385.00 2597.00

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1

CROSS SECTION 331.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1361.1 1362.1 1363.1 1364.1 1365.1 1366.1 1367.1 1368.1 1369.1 1370.1 1371.1

STA-FEET

2 240. X E

		KEYSCRSF.OUT													
	245.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
	250.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
	255.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
	260.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
	265.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
	270.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	275.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	280.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	285.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	290.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	295.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	300.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	305.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	310.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	315.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	320.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	325.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	330.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
3	335.	.	.	.	.	.	.	X	W	E	.	.	.	.	BANK.
	340.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	345.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	350.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	355.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
4	360.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	365.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	370.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	375.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	380.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
5	385.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	390.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
6	395.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
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7	405.	.	.	.	.	.	.	X	W	E	.	.	.	.	BANK.
	410.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	415.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	420.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	425.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	430.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	435.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
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	450.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	455.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	460.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	465.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	470.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	475.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	480.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	485.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
	490.	.	.	.	.	.	.	X	W	E	.	.	.	.	.
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										KEYSCRSF.OUT									
9	515.	.	.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	.
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	560.	.	.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	565.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	570.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
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	675.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
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	685.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	690.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	695.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	700.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	705.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	710.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
10	715.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	720.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	725.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	730.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	735.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	740.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	745.	.	.	.X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	
	750.	.	.	.X	.	.													

						KEYSCRSF.OUT				
785. .	.	.	.	.	X	E .	.	.	.	.
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795. .	.	.	.	.	X	E .	.	.	.	.
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810. .	.	.	.	.	X	E .	.	.	.	.
815. .	.	.	.	.	X	E .	.	.	.	.
820. .	.	.	.	.	X	E .	.	.	.	.
825. .	.	.	.	.	X	E .	.	.	.	.
830. .	.	.	.	.	X	E .	.	.	.	.
835. .	.	.	.	.	X	E .	.	.	.	.
840. .	.	.	.	.	XE .	.	.	.	.	.
11 845. .	.	.	.	.	XE .	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)										
1366.70	240.00	1364.30	334.00	1362.40	360.00	1361.10	385.00	1362.80	394.00	
1363.80	403.00	1363.20	444.00	1364.10	553.00	1365.50	710.00	1366.80	844.00	

1

CROSS SECTION 332.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1363.5 1365.5 1367.5 1369.5 1371.5 1373.5 1375.5 1377.5 1379.5 1381.5 1383.5

STA-FEET										
95. .	.	.	.	.	.	X .	.	.	.	.
2 100. .	.	.	.	.	.	X .	.	.	.	BANK.
105. .	.	.	.	.	X .	.	.	.	.	.
110. .	.	.	.	X.	.	.	.	.	.	.
115. .	.	.	X.	.	.	.	.	.	.	.
3 120. .	.	X	.	W	E .	.	.	.	.	.
125. .	.	X	.	W	E .	.	.	.	.	.
130. .	.	X	.	W	E .	.	.	.	.	.
135. .	X	.	.	W	E .	.	.	.	.	.
4 140. .	X	.	.	W	E .	.	.	.	.	.
5 145. X	.	.	.	W	E .	.	.	.	.	.
150. X	.	.	.	W	E .	.	.	.	.	.
155. X	.	.	.	W	E .	.	.	.	.	.
6 160. X	.	.	.	W	E .	.	.	.	.	.
7 165. .	X	.	.	W	E .	.	.	.	.	.
170. .	.	X	.	W	E .	.	.	.	.	.
8 175. .	.	X	.	W	E .	.	.	.	.	BANK.
180. .	.	X	.	W	E .	.	.	.	.	.
185. .	.	X	.	W	E .	.	.	.	.	.
190. .	.	X	.	W	E .	.	.	.	.	.
195. .	.	X	.	W	E .	.	.	.	.	.
200. .	.	X	.	W	E .	.	.	.	.	.

KEYSCRSF.OUT

205.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
210.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
215.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
220.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
225.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
230.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
235.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
240.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
245.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
9 250.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
255.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
260.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
265.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
270.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
275.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
280.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
285.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
290.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
295.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
300.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
305.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
310.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
10 315.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
320.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
325.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
330.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
335.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
340.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
345.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
350.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
355.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
360.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
365.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
370.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
375.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
380.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
385.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
390.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
395.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
400.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
405.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
410.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
415.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
420.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
425.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
430.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
435.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
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450.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
455.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
460.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
465.	.	X	.	W	E	.	.	.	.	.	.	.	.	.
470.	.	X	.	W	E	.	.	.	.	.	.	.	.	.

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475.	.	X.	W	E	.	.	.	.	.	.	.	.
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485.	.	X.	W	E	.	.	.	.	.	.	.	.
490.	.	X.	W	E	.	.	.	.	.	.	.	.
11 495.	.	X.	W	E	.	.	.	.	.	.	.	.
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515.	.	X	W	E	.	.	.	.	.	.	.	.
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575.	.	. X	E	.	.	.	.	.	.	.	.	.
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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1375.00	98.00	1366.40	121.00	1364.60	139.00	1363.60	145.00	1363.50	158.00
1364.10	163.00	1366.10	173.00	1366.10	249.00	1366.30	317.00	1367.30	493.00
1369.70	699.00								

ELEV	1367.2	1368.2	1369.2	1370.2	1371.2	1372.2	1373.2	1374.2	1375.2	1376.2	1377.2
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[illegible]

KEYSCRSF.OUT

305.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
310.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
315.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
320.	.	.	.	X.	.	C	.W	E	.	.	.	.	.	.	.	.	.
325.	.	.	.	X	.	C	.W	E	.	.	.	.	.	.	.	.	.
8 330.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
335.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
340.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
345.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
350.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
355.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
360.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
365.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
370.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
375.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
380.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
385.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
390.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
395.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
400.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
405.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
410.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
415.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
420.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
425.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
430.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	.
9 435.	.	.	.	.X	.	C	.W	E	.	.	.	.	.	.	.	.	BANK.
440.	.	.	.	X	.	C	.W	E	.	.	.	.	.	.	.	.	.
445.	.	X	.	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
10 450.	X	.	.	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
11 455.	X	.	.	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
460.	.	X	.	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
465.	.	X	.	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
470.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
12 475.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
480.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
485.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
490.	.	.	X.	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
495.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
500.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
13 505.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	BANK.
510.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
515.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
520.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
525.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
530.	.	.	X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
535.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
540.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
545.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
550.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
555.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
560.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
565.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.
570.	.	.	.X	.	.	C	.W	E	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

575.	.	.	X.	C	.W	E	.	.	.	.	.	.
580.	.	.	X.	C	.W	E	.	.	.	.	.	.
14 585.	.	.	X.	C	.W	E	.	.	.	.	.	.
590.	.	.	.		X.W	E	.	.	.	.	.	.
15 595.	.	.	.		.	X E	.	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1378.10	97.00	1428.10	97.00	1378.10	97.00	1368.20	192.00	1367.40	225.00
1368.40	295.00	1369.30	328.00	1369.40	434.00	1367.40	448.00	1367.20	457.00
1368.70	476.00	1369.40	503.00	1370.10	587.00	1371.50	594.00	1371.50	594.00
1371.40	616.00	1371.40	657.00	1371.40	786.00	1371.90	908.00	1372.80	1007.00

1

CROSS SECTION 334.00

STREAM IRF WITH UNNAMED WASH CO

DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	1372.4	1374.4	1376.4	1378.4	1380.4	1382.4	1384.4	1386.4	1388.4	1390.4	1392.4
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STA-FEET

725.	.	.	.		X	.	.	.	.	.	.
6 730.	.	.	.		X	.	.	.	.	.	.
735.	.	.	.		XE	.	.	.	.	.	.
740.	.	.	.		X E	.	.	.	.	.	.
745.	.	.	.		X E	.	.	.	.	.	.
750.	.	.	.		XW E	.	.	.	.	.	.
755.	.	.	.		X W E	.	.	.	.	.	.
760.	.	.	.		X W E	.	.	.	.	.	.
765.	.	.	.		X W E	.	.	.	.	.	.
7 770.	.	.	.		X W E	.	.	.	.	.	.
775.	.	.	.		X W E	.	.	.	.	.	.
780.	.	.	.		X W E	.	.	.	.	.	.
785.	.	.	.		X W E	.	.	.	.	.	.
790.	.	.	.		X W E	.	.	.	.	.	.
795.	.	.	.		X W E	.	.	.	.	.	.
800.	.	.	.		X W E	.	.	.	.	.	.
805.	.	.	.		X W E	.	.	.	.	.	.
810.	.	.	.		X W E	.	.	.	.	.	.
8 815.	.	.	.		XW E	.	.	.	.	.	.
820.	.	.	.		XW E	.	.	.	.	.	.
825.	.	.	.		X W E	.	.	.	.	.	.
830.	.	.	.		X W E	.	.	.	.	.	.
835.	.	.	.		X W E	.	.	.	.	.	.
840.	.	.	.		X W E	.	.	.	.	.	.
9 845.	.	.	.		X W E	.	.	.	.	.	.
850.	.	.	.		X W E	.	.	.	.	.	.
855.	.	.	.		X W E	.	.	.	.	.	.
860.	.	.	.		X W E	.	.	.	.	.	.

KEYSCRSF.OUT

[illegible]

KEYSCRSF.OUT

1135.	.	.	.	X	W	E	.	.	.	.	.	.	.
1140.	.	.	.	X	W	E	.	.	.	.	.	.	.
1145.	.	.	.	X	W	E	.	.	.	.	.	.	.
1150.	.	.	.	X	W	E	.	.	.	.	.	.	.
1155.	.	.	.	X	W	E	.	.	.	.	.	.	.
1160.	.	.	.	X	W	E	.	.	.	.	.	.	.
1165.	.	.	.	X	W	E	.	.	.	.	.	.	.
1170.	.	.	.	X	W	E	.	.	.	.	.	.	.
1175.	.	.	.	X	W	E	.	.	.	.	.	.	.
1180.	.	.	.	X	W	E	.	.	.	.	.	.	.
1185.	.	.	.	X	W	E	.	.	.	.	.	.	.
1190.	.	.	.	X	W	E	.	.	.	.	.	.	.
1195.	.	.	.	X	W	E	.	.	.	.	.	.	.
1200.	.	.	.	X	W	E	.	.	.	.	.	.	.
1205.	.	.	.	X	W	E	.	.	.	.	.	.	.
1210.	.	.	.	X	W	E	.	.	.	.	.	.	.
1215.	.	.	.	X	W	E	.	.	.	.	.	.	.
1220.	.	.	.	X	W	E	.	.	.	.	.	.	.
1225.	.	.	.	X	W	E	.	.	.	.	.	.	.
1230.	.	.	.	X	W	E	.	.	.	.	.	.	.
1235.	.	.	.	X	W	E	.	.	.	.	.	.	.
1240.	.	.	.	X	W	E	.	.	.	.	.	.	.
201245.	.	.	.	X	W	E	.	.	.	.	.	.	.
1250.	.	.	.	X	W	E	.	.	.	.	.	.	.
1255.	.	.	.	X	W	E	.	.	.	.	.	.	.
1260.	.	.	.	X	W	E	.	.	.	.	.	.	.
1265.	.	.	.	X	W	E	.	.	.	.	.	.	.
1270.	.	.	.	X	W	E	.	.	.	.	.	.	.
1275.	.	.	.	X	W	E	.	.	.	.	.	.	.
1280.	.	.	.	X	W	E	.	.	.	.	.	.	.
1285.	.	.	.	X	W	E	.	.	.	.	.	.	.
1290.	.	.	.	X	W	E	.	.	.	.	.	.	.
1295.	.	.	.	X	W	E	.	.	.	.	.	.	.
1300.	.	.	.	X	W	E	.	.	.	.	.	.	.
1305.	.	.	.	X	W	E	.	.	.	.	.	.	.
1310.	.	.	.	X	W	E	.	.	.	.	.	.	.
1315.	.	.	.	X	W	E	.	.	.	.	.	.	.
1320.	.	.	.	X	W	E	.	.	.	.	.	.	.
1325.	.	.	.	X	W	E	.	.	.	.	.	.	.
1330.	.	.	.	X	W	E	.	.	.	.	.	.	.
1335.	.	.	.	X	W	E	.	.	.	.	.	.	.
1340.	.	.	.	X	W	E	.	.	.	.	.	.	.
1345.	.	.	.	X	W	E	.	.	.	.	.	.	.
1350.	.	.	.	X	W	E	.	.	.	.	.	.	.
1355.	.	.	.	X	W	E	.	.	.	.	.	.	.
1360.	.	.	.	X	W	E	.	.	.	.	.	.	.
1365.	.	.	.	X	W	E	.	.	.	.	.	.	.
1370.	.	.	.	X	W	E	.	.	.	.	.	.	.
1375.	.	.	.	X	W	E	.	.	.	.	.	.	.
1380.	.	.	.	X	W	E	.	.	.	.	.	.	.
1385.	.	.	.	X	W	E	.	.	.	.	.	.	.
1390.	.	.	.	X	W	E	.	.	.	.	.	.	.
1395.	.	.	.	X	W	E	.	.	.	.	.	.	.
1400.	.	.	.	X	W	E	.	.	.	.	.	.	.

KEYSCRSF.OUT

1405.	.	.	. X	W	E	.	.	.	.	.	.
1410.	.	.	. X	W	E	.	.	.	.	.	.
1415.	.	.	. X	W	E	.	.	.	.	.	.
1420.	.	.	. X	W	E	.	.	.	.	.	.
211425.	.	.	. X	W	E	.	.	.	.	.	.
1430.	.	.	. X	W	E	.	.	.	.	.	.
1435.	.	.	. X	W	E	.	.	.	.	.	.
1440.	.	.	. X	W	E	.	.	.	.	.	.
1445.	.	.	. X	W	E	.	.	.	.	.	.
1450.	.	.	. X	W	E	.	.	.	.	.	.
1455.	.	.	. X	W	E	.	.	.	.	.	.
1460.	.	.	. X	W	E	.	.	.	.	.	.
1465.	.	.	. X	W	E	.	.	.	.	.	.
1470.	.	.	. X	W	E	.	.	.	.	.	.
1475.	.	.	. X	W	E	.	.	.	.	.	.
1480.	.	.	. X	W	E	.	.	.	.	.	.
1485.	.	.	. X	W	E	.	.	.	.	.	.
1490.	.	.	. X	W	E	.	.	.	.	.	.
1495.	.	.	. X	W	E	.	.	.	.	.	.
1500.	.	.	. X	W	E	.	.	.	.	.	.
1505.	.	.	. X	W	E	.	.	.	.	.	.
1510.	.	.	. X	W	E	.	.	.	.	.	.
1515.	.	.	. X	W	E	.	.	.	.	.	.
1520.	.	.	. X	W	E	.	.	.	.	.	.
1525.	.	.	. X	W	E	.	.	.	.	.	.
1530.	.	.	. X	W	E	.	.	.	.	.	.
1535.	.	.	. X	W	E	.	.	.	.	.	.
1540.	.	.	. X	W	E	.	.	.	.	.	.
1545.	.	.	. X	W	E	.	.	.	.	.	.
231550.	.	.	.	XX							

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1382.20	660.00	1432.20	660.00	1382.20	660.00	1381.00	699.00	1381.00	728.00
1379.20	769.00	1380.20	817.00	1379.70	846.00	1379.20	881.00	1379.90	895.00
1378.80	913.00	1372.50	915.00	1372.40	924.00	1373.10	931.00	1377.80	945.00
1378.60	981.00	1379.20	1052.00	1379.40	1117.00	1379.10	1247.00	1378.80	1427.00
1379.00	1550.00	100000.00	1550.00	100000.00	1552.00	100000.00	1645.00	100000.00	1816.00
100000.00	2000.00	100000.00	2118.00	100000.00	2220.00	100000.00	2308.00		

1

CROSS SECTION 336.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 5900.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1373.7 1375.7 1377.7 1379.7 1381.7 1383.7 1385.7 1387.7 1389.7 1391.7 1393.7

STA-FEET

610.	.	.	.	.	X	.	.	.	.	.	.
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KEYSCRSF.OUT

4	620.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
	630.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
	640.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.
	650.	.	.	.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
	660.	.	.	.	.	X WE	.	.	.	.	.	.	.	.	.	.	.
8560	XSEC	POINT-B	EL,ST-	.00	668.00												
5	670.	.	.	.	.	XT WE	.	.	.	.	.	.	.	.	.	.	.
	680.	.	.	.	.	.XTT WE	.	.	.	.	.	.	.	.	.	.	.
	690.	.	.	.	.	X TT WE	.	.	.	.	.	.	.	.	.	.	.
	700.	.	.	.	.	X.T T WE	.	.	.	.	.	.	.	.	.	.	.
	710.	.	.	.	.	X T T WE	.	.	.	.	.	.	.	.	.	.	.
	720.	.	.	.	.	X T T WE	.	.	.	.	.	.	.	.	.	.	.
6	730.	.	.	.	.	X T WE	.	.	.	.	.	.	.	.	.	.	.
	740.	.	.	.	.	X T TE	.	.	.	.	.	.	.	.	.	.	.
	750.	.	.	.	.	X TTWE	.	.	.	.	.	.	.	.	.	.	.
	760.	.	.	.	.	X TTWE	.	.	.	.	.	.	.	.	.	.	.
	770.	.	.	.	.	.X T WE	.	.	.	.	.	.	.	.	.	.	.
	780.	.	.	.	.	X T WE	.	.	.	.	.	.	.	.	.	.	.
7	790.	.	.	.	.	X T WE	.	.	.	.	.	.	.	.	.	.	.
	800.	.	.	.	.	X TT WE	.	.	.	.	.	.	.	.	.	.	.
	810.	.	.	.	.	X TT WE	.	.	.	.	.	.	.	.	.	.	.
	820.	.	.	.	.	.X T T WE	.	.	.	.	.	.	.	.	.	.	.
	830.	.	.	.	.	.X T T WE	.	.	.	.	.	.	.	.	.	.	.
	840.	.	.	.	.	.X T T WE	.	.	.	.	.	.	.	.	.	.	.
	850.	.	.	.	.	.X T T WE	.	.	.	.	.	.	.	.	.	.	.
	860.	.	.	.	.	.X T T WE	.	.	.	.	.	.	.	.	.	.	.
8	870.	.	.	.	.	.X T WE	.	.	.	.	.	.	.	.	.	.	.
	880.	.	.	.	.	.X T WE	.	.	.	.	.	.	.	.	.	.	.
	890.	.	.	.	.	.X T T WE	.	.	.	.	.	.	.	.	.	.	.
	900.	.	.	.	.	X T T WE	.	.	.	.	.	.	.	.	.	.	.
9	910.	.	.	.	.	XB T T WE	.	.	.	.	.	.	.	.	.	.	.
10	920.	X	.	.	.	B T T WE	.	.	.	.	.	.	.	.	.	.	BANK.
11	930.	.X	.	.	.	B T T WE	.	.	.	.	.	.	.	.	.	.	.
	940.	.	X	.	.	B TT T WE	.	.	.	.	.	.	.	.	.	.	.
	950.	.	.	.	.	BX TT T WE	.	.	.	.	.	.	.	.	.	.	.
12	960.	.	.	.	.	B X T WE	.	.	.	.	.	.	.	.	.	.	BANK.
	970.	.	.	.	.	B XT T WE	.	.	.	.	.	.	.	.	.	.	.
	980.	.	.	.	.	B XT T WE	.	.	.	.	.	.	.	.	.	.	.
	990.	.	.	.	.	B XT T WE	.	.	.	.	.	.	.	.	.	.	.
	1000.	.	.	.	.	B XT T WE	.	.	.	.	.	.	.	.	.	.	.
	1010.	.	.	.	.	B XT T WE	.	.	.	.	.	.	.	.	.	.	.
131020.	.	.	.	.	.	B XT T WE	.	.	.	.	.	.	.	.	.	.	.
	1030.	.	.	.	.	B XT T WE	.	.	.	.	.	.	.	.	.	.	.
	1040.	.	.	.	.	B TT T WE	.	.	.	.	.	.	.	.	.	.	.
	1050.	.	.	.	.	B TT T WE	.	.	.	.	.	.	.	.	.	.	.
	1060.	.	.	.	.	B TT T WE	.	.	.	.	.	.	.	.	.	.	.
	1070.	.	.	.	.	B X T T WE	.	.	.	.	.	.	.	.	.	.	.
	1080.	.	.	.	.	B X T T WE	.	.	.	.	.	.	.	.	.	.	.
	1090.	.	.	.	.	B X T T WE	.	.	.	.	.	.	.	.	.	.	.
	1100.	.	.	.	.	B X T T WE	.	.	.	.	.	.	.	.	.	.	.
	1110.	.	.	.	.	B X T T WE	.	.	.	.	.	.	.	.	.	.	.
	1120.	.	.	.	.	B X T T WE	.	.	.	.	.	.	.	.	.	.	.
	1130.	.	.	.	.	B X T T WE	.	.	.	.	.	.	.	.	.	.	.
8560	XSEC	POINT-B	EL,ST-	.00	1140.00												

KEYSCRSF.OUT

141140.	.C	.	.	B	T . T WE	.	.	.	.	.	.	.
1150.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1160.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1170.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1180.	.	.	.	B	T T . T WE	.	.	.	.	.	.	.
1190.	.	.	.	B	T T . T WE	.	.	.	.	.	.	.
1200.	.	.	.	B	T T . T WE	.	.	.	.	.	.	.
1210.	.	.	.	B	X T T . T WE	.	.	.	.	.	.	.
1220.	.	.	.	B	X T T . T WE	.	.	.	.	.	.	.
1230.	.	.	.	B	X T T . T WE	.	.	.	.	.	.	.
1240.	.	.	.	B	X T T . T WE	.	.	.	.	.	.	.
1250.	.	.	.	B	X T T . T WE	.	.	.	.	.	.	.
1260.	.	.	.	B	X T T . T WE	.	.	.	.	.	.	.
1270.	.	.	.	B	X TT . T WE	.	.	.	.	.	.	.
1280.	.	.	.	B	X TT . T WE	.	.	.	.	.	.	.
1290.	.	.	.	B	X TT . T WE	.	.	.	.	.	.	.
1300.	.	.	.	B	X TT . T WE	.	.	.	.	.	.	.
151310.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1320.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1330.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1340.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1350.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
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1370.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1380.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1390.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1400.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1410.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1420.	.	.	.	B	X T . T WE	.	.	.	.	.	.	.
1430.	.	.	.	B	T T . T WE	.	.	.	.	.	.	.
1440.	.	.	.	B	XTT . T WE	.	.	.	.	.	.	.
1450.	.	.	.	B	XTT . T WE	.	.	.	.	.	.	.
1460.	.	.	.	B	XT . T WE	.	.	.	.	.	.	.
1470.	.	.	.	B	XT . T WE	.	.	.	.	.	.	.
1480.	.	.	.	B	XTT. T WE	.	.	.	.	.	.	.
1490.	.	.	.	B	XT T T WE	.	.	.	.	.	.	.
161500.	.	.	.	B	X . T WE	.	.	.	.	.	.	.
1510.	.	.	.	B	X .T T WE	.	.	.	.	.	.	.
1520.	.	.	.	B	X .T T WE	.	.	.	.	.	.	.
1530.	.	.	.	B	TX. TT WE	.	.	.	.	.	.	.
1540.	.	.	.	B	TX. TT WE	.	.	.	.	.	.	.
1550.	.	.	.	B	T X T WE	.	.	.	.	.	.	.
1560.	.	.	.	B	T X TTWE	.	.	.	.	.	.	.
1570.	.	.	.	B	T X TTWE	.	.	.	.	.	.	.
1580.	.	.	.	B	T .X T TE	.	.	.	.	.	.	.
1590.	.	.	.	B	T .X T TE	.	.	.	.	.	.	.
181600.	.	.	.	B	T . XX	.	.	.	.	.	.	.

NRD= 11 ELLC= 1379.70 ELTRD= 1381.20

668.00	.00	1382.30	780.00	.00	1380.80	911.00	1379.70	1381.20
921.00	1379.70	1381.20	1031.00	.00	1380.60	1140.00	.00	1380.60
1400.00	.00	1381.40	1700.00	.00	1384.00	2000.00	.00	1388.90

EL(I),STA(I)

										KEYSCRSF.OUT									
81345.	.	.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1350.	.	.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1355.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1360.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1365.	.	.	.	X.	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1370.	.	.	.	X.	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1375.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
91380.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1385.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1390.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1395.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1400.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1405.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1410.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1415.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1420.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1425.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
101430.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	BANK.	.
1435.	.	.X	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
111440.	X	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
121445.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	BANK.	.
1450.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1455.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1460.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1465.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1470.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1475.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1480.	.	.	.	X.	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1485.	.	.	.	X.	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
131490.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1495.	.	.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1500.	.	.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1505.	.	.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1510.	.	.	.	.X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1515.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1520.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1525.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1530.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1535.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1540.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1545.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1550.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1555.	.	.	.	X	.	W	.	E	.	.	.	.	.	.	.	.	.	.	.
1560.	.	.	.	X	.	W	.	E											

KEYSCRSF.OUT									
1615.	.	.	.	.	X	W	.	E	.
1620.	.	.	.	.	X	W	.	E	.
1625.	.	.	.	.	X	W	.	E	.
1630.	.	.	.	.	X	W	.	E	.
1635.	.	.	.	.	XW	.	.	E	.
141640.	.	.	.	.	XW	.	.	E	.
1645.	.	.	.	.	XW	.	.	E	.
1650.	.	.	.	.	XW	.	.	E	.
1655.	.	.	.	.	X	.	.	E	.
1660.	.	.	.	.	X	.	.	E	.
1665.	.	.	.	.	X	.	.	E	.
1670.	.	.	.	.	X	.	.	E	.
1675.	.	.	.	.	X	.	.	E	.
1680.	.	.	.	.	X	.	.	E	.
1685.	.	.	.	.	X	.	.	E	.
1690.	.	.	.	.	X	.	.	E	.
1695.	.	.	.	.	X	.	.	E	.
1700.	.	.	.	.	X	.	.	E	.
1705.	.	.	.	.	X	.	.	E	.
1710.	.	.	.	.	X	.	.	E	.
1715.	.	.	.	.	X	.	.	E	.
1720.	.	.	.	.	X	.	.	E	.
1725.	.	.	.	.	X	.	.	E	.
1730.	.	.	.	.	X	.	.	E	.
1735.	.	.	.	.	X	.	.	E	.
1740.	.	.	.	.	X	.	.	E	.
1745.	.	.	.	.	X	.	.	E	.
1750.	.	.	.	.	.X	.	.	E	.
1755.	.	.	.	.	.X	.	.	E	.
1760.	.	.	.	.	.X	.	.	E	.
1765.	.	.	.	.	.X	.	.	E	.
1770.	.	.	.	.	.X	.	.	E	.
1775.	.	.	.	.	.X	.	.	E	.
1780.	.	.	.	.	.X	.	.	E	.
1785.	.	.	.	.	.X	.	.	E	.
151790.	.	.	.	.	.X	.	.	E	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1390.80	1033.00	1387.50	1048.00	1387.10	1066.00	1388.10	1079.00	1387.00	1162.00
1384.20	1264.00	1382.90	1345.00	1382.60	1381.00	1382.10	1428.00	1379.80	1438.00
1382.30	1446.00	1382.80	1491.00	1384.50	1640.00	1385.00	1790.00	1387.00	1960.00

1

CROSS SECTION 338.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 3000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1391.0	1391.5	1392.0	1392.5	1393.0	1393.5	1394.0	1394.5	1395.0	1395.5	1396.0
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BANK.

										KEYSCRSF.OUT									
272030.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2035.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2040.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2045.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2050.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
282055.	X	.	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2060.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2065.	.	X	.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2070.	.		X.	.	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2075.	.		.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2080.	.		.	X	.	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2085.	.		.		X	.	W	.	E	.	.	.	.	.	.	.	.	.	.
2090.	.		.		X	.	W	.	E	.	.	.	.	.	.	.	.	.	.
292095.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	BANK.
2100.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2105.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2110.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2115.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2120.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2125.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2130.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2135.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2140.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2145.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
302150.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2155.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2160.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2165.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2170.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2175.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2180.	.		.			X.	.	W	.	E	.	.	.	.	.	.	.	.	.
2185.	.		.			X.	.	W	.	E	.	.	.	.	.	.	.	.	.
2190.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2195.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2200.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2205.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2210.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
312215.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2220.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2225.	.		.			X	.	W	.	E	.	.	.	.	.	.	.	.	.
2230.	.		.			X.	.	W	.	E	.	.	.	.	.	.	.	.	.
2235.	.		.			.	X	.	W	.	E	.	.	.	.	.	.	.	.
2240.	.		.			.	X	.	W	.	E	.	.	.	.	.	.	.	.
2245.	.		.			.	X	.	W	.	E</								

KEYSCRSF.OUT

2300.	.	.	.	X	.	W	.	E	.	.	.	.	.	.
2305.	.	.	.	X	.	W	.	E	.	.	.	.	.	.
2310.	.	.	.	X	.	W	.	E	.	.	.	.	.	.
2315.	.	.	.	X	.	W	.	E	.	.	.	.	.	.
2320.	.	.	.	X	.	W	.	E	.	.	.	.	.	.
2325.	.	.	.	.	X	W	.	E	.	.	.	.	.	.
2330.	.	.	.	.	X	W	.	E	.	.	.	.	.	.
2335.	.	.	.	.	.	XW	.	E	.	.	.	.	.	.
2340.	.	.	.	.	.	X	.	E	.	.	.	.	.	.
2345.	.	.	.	.	.	X	.	E	.	.	.	.	.	.
2350.	.	.	.	.	.	X	.	E	.	.	.	.	.	.
2355.	.	.	.	.	.	X	.	E	.	.	.	.	.	.
2360.	.	.	.	.	.	X	.	E	.	.	.	.	.	.
2365.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2370.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2375.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2380.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2385.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2390.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2395.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2400.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2405.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2410.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2415.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2420.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2425.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2430.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2435.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2440.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
2445.	.	.	.	.	.	.	X	E	.	.	.	.	.	.
322450.	.	.	.	.	.	.	X	E	.	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1420.00	.00	1416.40	167.00	1412.20	366.00	1408.40	544.00	1405.10	707.00
1402.80	828.00	1400.40	980.00	1399.00	1101.00	1397.90	1195.00	1398.70	1242.00
1399.70	1279.00	1399.40	1294.00	1400.00	1310.00	1399.90	1352.00	1400.00	1436.00
1400.50	1510.00	1400.70	1546.00	1399.60	1605.00	1398.70	1657.00	1399.30	1680.00
1396.10	1772.00	1393.00	1947.00	1391.70	1961.00	1391.80	1978.00	1391.50	2000.00
1391.30	2032.00	1391.00	2053.00	1392.20	2094.00	1392.10	2151.00	1391.80	2217.00
1394.50	2450.00	1396.00	2650.00	1400.00	2675.00				

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CROSS SECTION 339.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 3000.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1399.4 1401.4 1403.4 1405.4 1407.4 1409.4 1411.4 1413.4 1415.4 1417.4 1419.4

STA-FEET

141500.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1505.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1510.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1515.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1520.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1525.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1530.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1535.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1540.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1545.	.	.	.	X	.	.	.	.	.	.	.	.	.	.
1550.	.	.	.	X.	.	.	.	.	.	.	.	.	.	.
1555.	.	.	.	X.	.	.	.	.	.	.	.	.	.	.
1560.	.	.	.	X.	.	.	.	.	.	.	.	.	.	.
1565.	.	.	.	X.	.	.	.	.	.	.	.	.	.	.
1570.	.	.	.	X.	.	.	.	.	.	.	.	.	.	.
1575.	.	.	.	X.	.	.	.	.	.	.	.	.	.	.
1580.	.	.	.	XE.	.	.	.	.	.	.	.	.	.	.
1585.	.	.	.	XE.	.	.	.	.	.	.	.	.	.	.
1590.	.	.	.	X E.	.	.	.	.	.	.	.	.	.	.
1595.	.	.	.	X E.	.	.	.	.	.	.	.	.	.	.
1600.	.	.	.	XW E.	.	.	.	.	.	.	.	.	.	.
1605.	.	.	.	XW E.	.	.	.	.	.	.	.	.	.	.
1610.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1615.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1620.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1625.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1630.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1635.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1640.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1645.	.	.	.	X W E.	.	.	.	.	.	.	.	.	.	.
1650.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1655.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1660.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1665.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1670.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1675.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1680.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1685.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1690.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1695.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
151700.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1705.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1710.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1715.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1720.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1725.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1730.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1735.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1740.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1745.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1750.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1755.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.
1760.	.	.	.	X. W E.	.	.	.	.	.	.	.	.	.	.

Page 116

KEYSCRSF.OUT

2035.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2040.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2045.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2050.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2055.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2060.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2065.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2070.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
162075.	.	.	X	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	BANK.
2080.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
172085.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2090.	.	X.	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2095.	.	.	.	X.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
182100.	.	.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1420.00	.00	1420.00	.00	1416.70	112.00	1412.90	342.00	1414.30	355.00
1408.20	602.00	1405.10	682.00	1407.60	825.00	1405.40	938.00	1405.40	969.00
1408.10	1078.00	1405.90	1145.00	1404.30	1500.00	1400.20	1700.00	1402.30	2076.00
1399.40	2084.00	1404.60	2098.00	1405.30	2106.00	100000.00	2106.00	100000.00	2151.00
100000.00	2238.00	100000.00	2251.00	100000.00	2274.00	100000.00	2373.00	100000.00	2534.00
100000.00	2679.00	100000.00	2791.00	100000.00	2900.00	100000.00	3210.00	100000.00	3403.00

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CROSS SECTION 340.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 2350.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1400.9 1405.9 1410.9 1415.9 1420.9 1425.9 1430.9 1435.9 1440.9 1445.9 1450.9

STA-FEET

1380.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
271385.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1390.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1395.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1400.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1405.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1410.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1415.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1420.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1425.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1430.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1435.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1440.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1445.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1450.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1455.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
281460.	.	.XE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1465. .	.XE	.	.	.	.	.	.	.	.	.	.	.
1470. .	.XE	.	.	.	.	.	.	.	.	.	.	.
1475. .	XWE	.	.	.	.	.	.	.	.	.	.	.
1480. .	XWE	.	.	.	.	.	.	.	.	.	.	.
1485. .	XWE	.	.	.	.	.	.	.	.	.	.	.
1490. .	XWE	.	.	.	.	.	.	.	.	.	.	.
1495. .	XWE	.	.	.	.	.	.	.	.	.	.	.
1500. .	XWE	.	.	.	.	.	.	.	.	.	.	.
1505. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1510. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1515. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1520. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
291525. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1530. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1535. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1540. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1545. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1550. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1555. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1560. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1565. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1570. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
301575. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1580. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1585. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1590. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1595. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1600. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1605. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1610. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1615. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1620. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1625. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1630. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1635. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1640. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
311645. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1650. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1655. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1660. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1665. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1670. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1675. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1680. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1685. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1690. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1695. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1700. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1705. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
321710. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1715. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1720. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1725. .	X.WE	.	.	.	.	.	.	.	.	.	.	.
1730. .	X.WE	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1735. .	X	.WE	.	.	.	.	.	.	.	.	.
1740. .	X	.WE	.	.	.	.	.	.	.	.	.
1745. .	X	.WE	.	.	.	.	.	.	.	.	.
1750. .	X	.WE	.	.	.	.	.	.	.	.	.
1755. .	X	.WE	.	.	.	.	.	.	.	.	.
1760. .	X	.WE	.	.	.	.	.	.	.	.	.
1765. .	X	.WE	.	.	.	.	.	.	.	.	.
1770. .	X	.WE	.	.	.	.	.	.	.	.	.
1775. .	X	.WE	.	.	.	.	.	.	.	.	.
1780. .	X	.WE	.	.	.	.	.	.	.	.	.
1785. .	X	.WE	.	.	.	.	.	.	.	.	.
1790. .	X	.WE	.	.	.	.	.	.	.	.	.
1795. .	X	.WE	.	.	.	.	.	.	.	.	.
1800. .	X	.WE	.	.	.	.	.	.	.	.	.
1805. .	X	.WE	.	.	.	.	.	.	.	.	.
1810. .	X	.WE	.	.	.	.	.	.	.	.	.
331815. .	X	.WE	.	.	.	.	.	.	.	.	.
1820. .	X	.WE	.	.	.	.	.	.	.	.	.
1825. .	X	.WE	.	.	.	.	.	.	.	.	.
1830. .	X	.WE	.	.	.	.	.	.	.	.	.
1835. .	X	.WE	.	.	.	.	.	.	.	.	.
1840. .	X	.WE	.	.	.	.	.	.	.	.	.
1845. .	X	.WE	.	.	.	.	.	.	.	.	.
1850. .	X	.WE	.	.	.	.	.	.	.	.	.
1855. .	X	.WE	.	.	.	.	.	.	.	.	.
1860. .	X	.WE	.	.	.	.	.	.	.	.	.
1865. .	X	.WE	.	.	.	.	.	.	.	.	.
1870. .	X	.WE	.	.	.	.	.	.	.	.	.
341875. .	X	.WE	.	.	.	.	.	.	.	.	.
1880. .	X	.WE	.	.	.	.	.	.	.	.	.
1885. .	X	.WE	.	.	.	.	.	.	.	.	.
1890. .	X	.WE	.	.	.	.	.	.	.	.	.
1895. .	X	.WE	.	.	.	.	.	.	.	.	.
351900. .	X	.WE	.	.	.	.	.	.	.	.	BANK.
1905. .	X	.WE	.	.	.	.	.	.	.	.	.
361910. X	X	.WE	.	.	.	.	.	.	.	.	.
1915. .	X	.WE	.	.	.	.	.	.	.	.	.
1920. .	X	.WE	.	.	.	.	.	.	.	.	.
371925. .	.	X	.	.	.	.	.	.	.	.	BANK.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1425.00	.00	1425.00	.00	1422.10	139.00	1421.90	156.00	1421.40	182.00
1420.00	275.00	1415.90	424.00	1413.40	512.00	1412.70	516.00	1412.70	528.00
1410.60	623.00	1410.30	694.00	1410.30	702.00	1410.40	743.00	1410.10	770.00
1409.60	801.00	1410.80	834.00	1411.00	867.00	1412.20	919.00	1412.90	961.00
1413.80	1000.00	1414.40	1078.00	1414.70	1149.00	1413.30	1236.00	1412.30	1321.00
1410.00	1383.00	1406.40	1460.00	1405.30	1524.00	1405.20	1576.00	1405.50	1646.00
1404.80	1712.00	1404.80	1816.00	1405.40	1873.00	1406.40	1899.00	1400.90	1908.00
1408.50	1925.00	1408.30	1965.00	100000.00	1965.00	100000.00	1972.00	100000.00	1984.00
100000.00	2064.00	100000.00	2157.00	100000.00	2167.00	100000.00	2174.00	100000.00	2204.00
100000.00	2218.00	100000.00	2230.00	100000.00	2280.00	100000.00	2313.00	100000.00	2343.00
100000.00	2379.00	100000.00	2459.00	100000.00	2509.00	100000.00	2572.00	100000.00	2604.00

					KEYSCRSF.OUT					
100000.00	2656.00	100000.00	2724.00	100000.00	2803.00	100000.00	2889.00	100000.00	2984.00	
100000.00	3065.00	100000.00	3156.00	100000.00	3232.00	100000.00	3338.00	100000.00	3405.00	

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CROSS SECTION 340.10
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 2350.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1407.5 1412.5 1417.5 1422.5 1427.5 1432.5 1437.5 1442.5 1447.5 1452.5 1457.5

STA-FEET

1550.	.	X	.	.	.	.	.	.	.	.	.
1555.	.	X	.	.	.	.	.	.	.	.	.
1560.	.	X	.	.	.	.	.	.	.	.	.
1565.	.	X	.	.	.	.	.	.	.	.	.
1570.	.	X	.	.	.	.	.	.	.	.	.
1575.	.	X	.	.	.	.	.	.	.	.	.
1580.	.	X	.	.	.	.	.	.	.	.	.
1585.	.	X	.	.	.	.	.	.	.	.	.
1590.	.	X	.	.	.	.	.	.	.	.	.
1595.	.	X	.	.	.	.	.	.	.	.	.
1600.	.	X	.	.	.	.	.	.	.	.	.
1605.	.	X	.	.	.	.	.	.	.	.	.
1610.	.	X	.	.	.	.	.	.	.	.	.
1615.	.	X	.	.	.	.	.	.	.	.	.
1620.	.	X	.	.	.	.	.	.	.	.	.
1625.	.	X	.	.	.	.	.	.	.	.	.
1630.	.	X	.	.	.	.	.	.	.	.	.
1635.	.	X	.	.	.	.	.	.	.	.	.
1640.	.	X	.	.	.	.	.	.	.	.	.
1645.	.	X	.	.	.	.	.	.	.	.	.
1650.	.	X	.	.	.	.	.	.	.	.	.
1655.	.	X	.	.	.	.	.	.	.	.	.
1660.	.	X	.	.	.	.	.	.	.	.	.
1665.	.	X	.	.	.	.	.	.	.	.	.
1670.	.	X	.	.	.	.	.	.	.	.	.
1675.	.	X	.	.	.	.	.	.	.	.	.
1680.	.	X	.	.	.	.	.	.	.	.	.
1685.	.	X	.	.	.	.	.	.	.	.	.
1690.	.	X	.	.	.	.	.	.	.	.	.
1695.	.	X	.	.	.	.	.	.	.	.	.
1700.	.	X	.	.	.	.	.	.	.	.	.
1705.	.	X	.	.	.	.	.	.	.	.	.
1710.	.	XW	.	.	.	.	.	.	.	.	.
1715.	.	XW	.	.	.	.	.	.	.	.	.
1720.	.	XW	.	.	.	.	.	.	.	.	.
1725.	.	XW	.	.	.	.	.	.	.	.	.
1730.	.	XW	.	.	.	.	.	.	.	.	.
1735.	.	XW	.	.	.	.	.	.	.	.	.
1740.	.	XW	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1745.	.	XW	.	.	.	.	.	.	.	.	.	.	.
1750.	.	XW	.	.	.	.	.	.	.	.	.	.	.
1755.	.	XW	.	.	.	.	.	.	.	.	.	.	.
1760.	.	XW	.	.	.	.	.	.	.	.	.	.	.
1765.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1770.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1775.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1780.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1785.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1790.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1795.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1800.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1805.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1810.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1815.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1820.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1825.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1830.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1835.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1840.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1845.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1850.	.	X W	.	.	.	.	.	.	.	.	.	.	.
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1860.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1865.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1870.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1875.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1880.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1885.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1890.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1895.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1900.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1905.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1910.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1915.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1920.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1925.	.	X W	.	.	.	.	.	.	.	.	.	.	.
201930.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1935.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1940.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1945.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1950.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1955.	.	X W	.	.	.	.	.	.	.	.	.	.	.
1960.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
1965.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
1970.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
1975.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
1980.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
1985.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
211990.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
1995.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
2000.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
2005.	.	X. W	.	.	.	.	.	.	.	.	.	.	.
2010.	.	X. W	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

2015. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2020. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2025. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2030. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2035. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2040. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2045. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2050. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2055. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2060. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2065. .	X.	W	.	.	.	.	.	.	.	.	.	.	.
2070. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2075. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2080. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2085. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2090. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2095. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2100. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2105. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2110. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2115. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2120. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2125. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2130. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2135. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2140. .	X	W	.	.	.	.	.	.	.	.	.	.	.
2145. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2150. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2155. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2160. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2165. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2170. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2175. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2180. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2185. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2190. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2195. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2200. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2205. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2210. .	.X	W	.	.	.	.	.	.	.	.	.	.	.
2215. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2220. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2225. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2230. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2235. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2240. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2245. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2250. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2255. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2260. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2265. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2270. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2275. .	. X	W	.	.	.	.	.	.	.	.	.	.	.
2280. .	. X	W	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

2285.	.	X	W	.	.	.	.	.	.	.	.	.	.
2290.	.	.	X	W	.	.	.	.	.	.	.	.	.
2295.	.	.	X	W	.	.	.	.	.	.	.	.	.
2300.	.	.	X	W	.	.	.	.	.	.	.	.	.
2305.	.	.	X	W	.	.	.	.	.	.	.	.	.
2310.	.	.	X	W	.	.	.	.	.	.	.	.	.
2315.	.	.	X	W	.	.	.	.	.	.	.	.	.
2320.	.	.	X	W	.	.	.	.	.	.	.	.	.
2325.	.	.	X	W	.	.	.	.	.	.	.	.	.
2330.	.	.	X	W	.	.	.	.	.	.	.	.	.
2335.	.	.	X	W	.	.	.	.	.	.	.	.	.
222340.	.	.	X	W	.	.	.	.	.	.	.	.	.
2345.	.	.	X	W	.	.	.	.	.	.	.	.	.
2350.	.	.	X	W	.	.	.	.	.	.	.	.	.
232355.	.	.	X	.	.	.	.	.	.	.	.	.	BANK.
2360.	X.	.	W	.	.	.	.	.	.	.	.	.	.
2365.	.	X	.	W	.	.	.	.	.	.	.	.	.
242370.	X	.	.	W	.	.	.	.	.	.	.	.	.
252375.	.	X	.	W	.	.	.	.	.	.	.	.	.
2380.	.	.	X	.	.	.	.	.	.	.	.	.	.
262385.	.	.	.	X	.	.	.	.	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1435.00	.00	1431.50	125.00	1429.20	530.00	1424.70	714.00	1425.30	851.00
1427.50	869.00	1433.80	875.00	1436.90	882.00	1428.60	896.00	1431.00	901.00
1427.50	910.00	1429.60	913.00	1422.30	928.00	1415.50	1156.00	1415.10	1303.00
1415.10	1355.00	1416.10	1554.00	1416.10	1554.00	1412.70	1932.00	1411.70	1992.00
1414.10	2338.00	1414.80	2357.00	1407.50	2370.00	1412.50	2376.00	1417.60	2385.00
1418.20	2392.00	1418.20	2419.00	1418.20	2419.00	1416.90	2630.00	1417.80	2852.00
1415.10	2991.00	1415.10	3021.00	1415.20	3111.00	1417.90	3382.00	1421.10	3560.00
1427.10	3832.00	1432.20	4091.00						

1

CROSS SECTION 341.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 2350.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1414.9 1419.9 1424.9 1429.9 1434.9 1439.9 1444.9 1449.9 1454.9 1459.9 1464.9

STA-FEET

201335.	.	X	.	.	.	.	.	.	.	.	.	.
1340.	.	X	.	.	.	.	.	.	.	.	.	.
1345.	.	X	.	.	.	.	.	.	.	.	.	.
1350.	.	X	.	.	.	.	.	.	.	.	.	.
1355.	.	X	.	.	.	.	.	.	.	.	.	.
1360.	.	X	.	.	.	.	.	.	.	.	.	.
1365.	.	X	.	.	.	.	.	.	.	.	.	.
1370.	.	X	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1375.	.	XE	.	.	.	.	.	.	.	.	.	.	.
1380.	.	XE	.	.	.	.	.	.	.	.	.	.	.
1385.	.	XE	.	.	.	.	.	.	.	.	.	.	.
1390.	.	XE	.	.	.	.	.	.	.	.	.	.	.
1395.	.	XE	.	.	.	.	.	.	.	.	.	.	.
1400.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1405.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1410.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
211415.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1420.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1425.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1430.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1435.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1440.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1445.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1450.	.	XWE	.	.	.	.	.	.	.	.	.	.	.
1455.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1460.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1465.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1470.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1475.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1480.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
221485.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1490.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1495.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1500.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1505.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1510.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1515.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1520.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1525.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1530.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1535.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1540.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1545.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1550.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
231555.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1560.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1565.	.	.X WE	.	.	.	.	.	.	.	.	.	.	.
1570.	.	X WE	.	.	.	.	.	.	.	.	.	.	.
1575.	.	X WE	.	.	.	.	.	.	.	.	.	.	.
1580.	.	X WE	.	.	.	.	.	.	.	.	.	.	.
1585.	.	X WE	.	.	.	.	.	.	.	.	.	.	.
1590.	.	X WE	.	.	.	.	.	.	.	.	.	.	.
1595.	.	X WE	.	.	.	.	.	.	.	.	.	.	.
1600.	.	X. WE	.	.	.	.	.	.	.	.	.	.	.
1605.	.	X. WE	.	.	.	.	.	.	.	.	.	.	.
1610.	.	X. WE	.	.	.	.	.	.	.	.	.	.	.
1615.	.	X. WE	.	.	.	.	.	.	.	.	.	.	.
1620.	.	X. WE	.	.	.	.	.	.	.	.	.	.	.
1625.	.	X. WE	.	.	.	.	.	.	.	.	.	.	.
1630.	.	X. WE	.	.	.	.	.	.	.	.	.	.	.
1635.	.	X . WE	.	.	.	.	.	.	.	.	.	.	.
1640.	.	X . WE	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

241645.	.	X	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1650.	.	X.	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1655.	.	X.	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1660.	.	X	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1665.	.	X	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1670.	.	.X	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
251675.	.	.	X	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	BANK.	
261680.	X	.	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1685.	.	X	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1690.	.	X	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1695.	.	X	.	WE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
1700.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
271705.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1440.00	.00	1440.00	.00	1438.50	26.00	1436.70	72.00	1434.80	112.00
1433.90	140.00	1434.40	153.00	1431.90	235.00	1429.70	334.00	1428.50	425.00
1427.50	478.00	1427.30	547.00	1425.80	578.00	1425.00	622.00	1425.70	758.00
1423.20	1000.00	1424.50	1062.00	1424.10	1192.00	1422.40	1337.00	1420.80	1415.00
1420.50	1487.00	1420.30	1555.00	1419.00	1643.00	1420.70	1674.00	1414.90	1681.00
1422.40	1703.00	1422.80	1714.00	1422.90	1744.00	1422.40	1753.00	100000.00	1753.00
100000.00	1781.00	100000.00	1839.00	100000.00	1909.00	100000.00	1921.00	100000.00	1934.00
100000.00	2050.00	100000.00	2128.00	100000.00	2154.00	100000.00	2194.00	100000.00	2285.00
100000.00	2432.00	100000.00	2566.00	100000.00	2741.00	100000.00	2875.00	100000.00	2989.00
100000.00	3020.00	100000.00	3054.00	100000.00	3161.00	100000.00	3260.00	100000.00	3376.00

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CROSS SECTION 342.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 1920.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1419.0 1421.0 1423.0 1425.0 1427.0 1429.0 1431.0 1433.0 1435.0 1437.0 1439.0

STA-Feet

271426.	.	.	X.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1428.	.	.	X.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1430.	.	.	X.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1432.	.	.	X.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1434.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1436.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1438.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1440.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1442.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1444.	.	.	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1446.	.	.	XE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1448.	.	.	XE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1450.	.	.	XE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1452.	.	.	XE	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1454.	.	.	XE	.	.	.	.	.	.	.	.
1456.	.	.	XE	.	.	.	.	.	.	.	.
1458.	.	.	XE	.	.	.	.	.	.	.	.
1460.	.	.	X E	.	.	.	.	.	.	.	.
1462.	.	.	X E	.	.	.	.	.	.	.	.
1464.	.	.	X E	.	.	.	.	.	.	.	.
1466.	.	.	X E	.	.	.	.	.	.	.	.
1468.	.	.	X E	.	.	.	.	.	.	.	.
1470.	.	.	X E	.	.	.	.	.	.	.	.
1472.	.	.	X E	.	.	.	.	.	.	.	.
1474.	.	.	X E	.	.	.	.	.	.	.	.
1476.	.	.	X E	.	.	.	.	.	.	.	.
1478.	.	.	X E	.	.	.	.	.	.	.	.
1480.	.	.	X E	.	.	.	.	.	.	.	.
1482.	.	.	X E	.	.	.	.	.	.	.	.
1484.	.	.	X E	.	.	.	.	.	.	.	.
1486.	.	.	XW E	.	.	.	.	.	.	.	.
1488.	.	.	XW E	.	.	.	.	.	.	.	.
1490.	.	.	XW E	.	.	.	.	.	.	.	.
1492.	.	.	XW E	.	.	.	.	.	.	.	.
1494.	.	.	XW E	.	.	.	.	.	.	.	.
1496.	.	.	XW E	.	.	.	.	.	.	.	.
1498.	.	.	X W E	.	.	.	.	.	.	.	.
1500.	.	.	X W E	.	.	.	.	.	.	.	.
1502.	.	.	X W E	.	.	.	.	.	.	.	.
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1512.	.	.	X W E	.	.	.	.	.	.	.	.
1514.	.	.	X W E	.	.	.	.	.	.	.	.
1516.	.	.	X W E	.	.	.	.	.	.	.	.
1518.	.	.	X W E	.	.	.	.	.	.	.	.
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1524.	.	.	X W E	.	.	.	.	.	.	.	.
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1532.	.	.	X W E	.	.	.	.	.	.	.	.
1534.	.	.	X W E	.	.	.	.	.	.	.	.
281536.	.	.	X W E	.	.	.	.	.	.	.	.
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1552.	.	.	X W E	.	.	.	.	.	.	.	.
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1558.	.	.	X W E	.	.	.	.	.	.	.	.
1560.	.	.	X. W E	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1562.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1564.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1566.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1568.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1570.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1572.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1574.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1576.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1578.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1580.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1582.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1584.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1586.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1588.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1590.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1592.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1594.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1596.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1598.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1600.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1602.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1604.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1606.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1608.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1610.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1612.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1614.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1616.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1618.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
291620.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1622.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1624.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1626.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1628.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1630.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1632.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1634.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1636.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1638.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1640.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1642.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1644.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1646.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1648.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1650.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1652.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1654.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1656.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1658.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1660.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1662.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1664.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1666.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.
1668.	.	X.	W	E	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

1670.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1672.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1674.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1676.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1678.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1680.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1682.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1684.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1686.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1688.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1690.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1692.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1694.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1696.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1698.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1700.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1702.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1704.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1706.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1708.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1710.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1712.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1714.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1716.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1718.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1720.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1722.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1724.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1726.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1728.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1730.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1732.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1734.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
311736.	XXXXXXXXXXXXXXXXXXXX	.	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	BANK.
321738.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
331740.	.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
341742.	.	X	.	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1744.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1746.	.	.	.	X	.	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.
1748.	.	.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.	.
1750.	.	.	.	.	.	X	W	E	.	.	.	.	.	.	.	.	.	.	.	.
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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1440.00	.00	1440.00	.00	1437.60	47.00	1438.10	83.00	1438.80	120.00
1438.30	146.00	1435.60	195.00	1434.30	229.00	1434.70	245.00	1435.00	267.00
1432.90	283.00	1432.00	333.00	1431.90	386.00	1430.30	431.00	1429.70	460.00
1429.30	555.00	1428.70	631.00	1429.40	684.00	1430.00	748.00	1430.30	814.00
1429.10	1000.00	1430.10	1096.00	1428.10	1216.00	1427.60	1286.00	1425.70	1349.00
1424.80	1427.00	1423.10	1537.00	1422.40	1620.00	1422.70	1736.00	1419.00	1737.00
1419.00	1739.00	1420.70	1740.00	1420.70	1743.00	1424.80	1754.00	1426.60	1763.00

					KEYSCRSF.OUT				
1426.60	1792.00	1427.00	1792.00	1427.00	1814.00	1427.00	1845.00	1427.00	1906.00
1427.00	1982.00	1427.00	2056.00	1427.00	2123.00	1427.00	2186.00	1427.00	2252.00
1427.00	2334.00	1427.00	2418.00	1427.20	2496.00	1427.40	2583.00	1429.40	2641.00
1430.20	2741.00	1432.70	2832.00	1433.80	2871.00	1431.70	2951.00	1431.40	2988.00
1433.00	3044.00	1435.60	3108.00	1437.70	3171.00	1440.00	3209.00		

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CROSS SECTION 344.00
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 1920.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1419.8 1420.8 1421.8 1422.8 1423.8 1424.8 1425.8 1426.8 1427.8 1428.8 1429.8

STA-FEET

8560 XSEC POINT-B	EL,ST-	.00	1297.00							
21295. .	.	.	.	.	.	.	XT .	.	.	.
1300. .	.	.	.	.	.	.	X T .	.	.	.
1305. .	.	.	.	.	.	.	X TT .	.	.	.
1310. .	.	.	.	.	.	.	XT T .	.	.	.
1315. .	.	.	.	.	.	.	XT T .	.	.	.
1320. .	.	.	.	.	.	.	X T T .	.	.	.
1325. .	.	.	.	.	.	.	XT T .	.	.	.
1330. .	.	.	.	.	.	.	. XT T .	.	.	.
1335. .	.	.	.	.	.	.	.XT T .	.	.	.
1340. .	.	.	.	.	.	.	X T T .	.	.	.
1345. .	.	.	.	.	.	.	X.T T .	.	.	.
1350. .	.	.	.	.	.	.	XT T .	.	.	.
1355. .	.	.	.	.	.	.	XT. T .	.	.	.
1360. .	.	.	.	.	.	.	X T. T .	.	.	.
1365. .	.	.	.	.	.	.	X T . T .	.	.	.
1370. .	.	.	.	.	.	.	XT . T .	.	.	.
1375. .	.	.	.	.	.	.	XT . T .	.	.	.
1380. .	.	.	.	.	.	.	X T . T .	.	.	.
1385. .	.	.	.	.	.	.	X TE . T .	.	.	.
1390. .	.	.	.	.	.	.	XT E . T .	.	.	.
1395. .	.	.	.	.	.	.	XT E . T .	.	.	.
1400. .	.	.	.	.	.	.	X T E . T .	.	.	.
1405. .	.	.	.	.	.	.	X T E . T .	.	.	.
1410. .	.	.	.	.	.	.	XT E . T .	.	.	.
8560 XSEC POINT-B	EL,ST-	.00	1417.00							
31415. .	.	.	.	.	.	XT E .	T .	.	.	.
1420. .	.	.	.	.	.	X T E .	T .	.	.	.
1425. .	.	.	.	.	.	X TT E .	T .	.	.	.
1430. .	.	.	.	.	.	XT T E .	T .	.	.	.
1435. .	.	.	.	.	.	XT T E .	T .	.	.	.
8560 XSEC POINT-B	EL,ST-	.00	1442.00							
41440. .	.	.	.	.	.	XT T E .	T .	.	.	.
1445. .	.	.	.	.	.	X T T E .	T .	.	.	.
1450. .	.	.	.	.	.	XTT T E .	T .	.	.	.
1455. .	.	.	.	.	.	XT T T E .	T .	.	.	.

				KEYSCRSF.OUT										
1460.	.	.	.	.	.	XT	T	T	E	.	T	.	.	.
8560 XSEC POINT-B	EL,ST-	.00	1467.00	.	.	.	.	.	.	.	.	.	.	.
51465.	.	.	.	.	.	XT	T	T	E	.	T	.	.	.
1470.	.	.	.	.	.	XT	T	T	E	.	T	.	.	.
1475.	.	.	.	.	.	.XTT	T	T	E	.	T	.	.	.
1480.	.	.	.	.	.	.XTT	T	T	E	.	T	.	.	.
1485.	.	.	.	.	.	X TT	T	T	E	.	T	.	.	.
8560 XSEC POINT-B	EL,ST-	.00	1492.00	.	.	.	.	.	.	.	.	.	.	.
61490.	.	.	.	.	.	XT	T	T	T	E	.	T	.	.
1495.	.	.	.	.	.	XT	T	T	T	E	.	T	.	.
1500.	.	.	.	.	.	XT	T	T	T	E	.	T	.	.
1505.	.	.	.	.	.	XTT	T	T	T	E	.	T	.	.
1510.	.	.	.	.	.	XTT	T	T	T	E	.	T	.	.
8560 XSEC POINT-B	EL,ST-	.00	1517.00	.	.	.	.	.	.	.	.	.	.	.
71515.	.	.	.	.	.	XTT	T	T	T	E	.	T	.	.
1520.	.	.	.	.	.	XTT	T	T	T	E	.	T	.	.
1525.	.	.	.	.	.	X TT	T	T	T	E	.	T	.	.
1530.	.	.	.	.	.	XTTT	T	T	T	E	.	T	.	.
1535.	.	.	.	.	.	XTTT	T	T	T	E	.	T	.	.
1540.	.	.	.	.	.	XTTT	T	T	T	E	.	T	.	.
1545.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1550.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1555.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1560.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1565.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1570.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1575.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1580.	.	.	.	.	.	X T	TT	T	T	T	E	.	T	.
1585.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1590.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1595.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1600.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1605.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1610.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1615.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1620.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
8560 XSEC POINT-B	EL,ST-	.00	1627.00	.	.	.	.	.	.	.	.	.	.	.
81625.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1630.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1635.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
8560 XSEC POINT-B	EL,ST-	.00	1642.00	.	.	.	.	.	.	.	.	.	.	.
91640.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1645.	.	.	.	.	.	XT	TT	T	T	T	E	.	T	.
1650.	.	.	.	.	.	TX	TT	T	T	T	E	.	T	.
8560 XSEC POINT-B	EL,ST-	.00	1657.00	.	.	.	.	.	.	.	.	.	.	.
101655.	.	.	.	.	.	T XT	TT	T	T	T	E	.	T	.
1660.	.	.	.	.	.	T XT	TT	T	T	T	E	.	T	.
1665.	.	.	.	.	.	T T	TTT	T	T	T	E	.	T	.
8560 XSEC POINT-B	EL,ST-	.00	1672.00	.	.	.	.	.	.	.	.	.	.	.
111670.	.	.	.	.	.	T T	XT	T	T	T	E	.	T	.
1675.	.	.	.	.	.	T T	TTXT	T	T	T	E	.	T	.
1680.	.	.	.	.	.	T T	TT	T	XT	T	E	.	T	.
8560 XSEC POINT-B	EL,ST-	.00	1687.00	.	.	.	.	.	.	.	.	.	.	.
121685.	.	.	.	.	.	T T	TT	T	TT	T	E	.	T	.

										KEYSCRSF.OUT									
1690.	.	.	.	.	T	T	TT	T	TT	XT	E	.	T	.	.	.	.	.	
1695.	.	.	.	.	T	T	TT	T	TT	X	E	.	T	.	.	.	.	.	
8560	XSEC	POINT-B	EL,ST-	.00	1702.00														
131700.	.	.	.	.	T	T	TT	T	TT		XT	E	.	T	.	.	.	.	
1705.	.	.	.	.	T	T	TT	T	TT		XT	E	.	T	.	.	.	.	
1710.	.	.	.	.	T	T	TT	T	TT		TXTE	.	T	.	.	.	.	.	
8560	XSEC	POINT-B	EL,ST-	.00	1717.00														
141715.	.	.	.	.	T	T	TT	T	TT		T	XT	.	T	.	.	.	.	
1720.	.	.	.	.	T	T	TT	T	TT		T	XT	.	T	.	.	.	.	
151725.	.	.	.	.	T	T	TT	T	TT		T	XT	.	T	.	.	.	.	
241730.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX				.	T	T	TTBT	TT	T	T	T	.	T	.	.	.	BANK.	
291735.	XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXT				.	T	.	.	.	.	.	.	.	T	.	.	.	BANK.	

NRD= 30 ELLC= 1425.40 ELTRD= 1424.20

1297.00	.00	1427.60	1417.00	.00	1425.80	1442.00	.00	1425.40		
1467.00	.00	1425.10	1492.00	.00	1424.90	1517.00	.00	1424.80		
1627.00	.00	1424.20	1642.00	.00	1424.20	1657.00	.00	1424.50		
1672.00	.00	1424.90	1687.00	.00	1425.50	1702.00	.00	1426.10		
1717.00	.00	1426.40	1728.00	1422.40	1426.40	1728.10	1423.20	1426.40		
1728.50	1424.10	1426.40	1729.00	1424.60	1426.40	1729.50	1425.00	1426.40		
1730.00	1425.20	1426.40	1731.00	1425.40	1426.40	1732.00	1425.20	1426.40		
1732.50	1425.00	1426.40	1733.00	1424.60	1426.40	1733.50	1424.10	1426.40		
1733.90	1423.20	1426.40	1734.00	1422.40	1426.40	1747.00	.00	1426.10		
1767.00	.00	1426.70								
EL(I),STA(I)										
1427.50	1297.00	1425.70	1417.00	1425.30	1442.00	1425.00	1467.00	1424.80	1492.00	
1424.70	1517.00	1424.10	1627.00	1424.10	1642.00	1424.40	1657.00	1424.80	1672.00	
1425.50	1687.00	1426.00	1702.00	1426.30	1717.00	1426.30	1727.00	1422.40	1728.00	
1421.60	1728.10	1420.70	1728.50	1420.20	1729.00	1419.80	1729.50	1419.90	1730.00	
1419.90	1731.00	1419.90	1732.00	1419.90	1732.50	1420.20	1733.00	1420.80	1733.50	
1421.60	1733.90	1422.40	1734.00	1426.30	1735.00	1426.00	1747.00	1426.60	1767.00	

1

CROSS SECTION 344.10
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 1920.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1421.2 1422.2 1423.2 1424.2 1425.2 1426.2 1427.2 1428.2 1429.2 1430.2 1431.2

STA- FEET

61464.	.	.	.	.	.	.	.	X	.	.	.	.	.
1466.	.	.	.	.	.	.	.	X	.	.	.	.	.
1468.	.	.	.	.	.	.	.	X	.	.	.	.	.
1470.	.	.	.	.	.	.	.	X	.	.	.	.	.
1472.	.	.	.	.	.	.	.	X	.	.	.	.	.
1474.	.	.	.	.	.	.	.	X	.	.	.	.	.
1476.	.	.	.	.	.	.	X	E	.	.	.	.	.
1478.	.	.	.	.	.	X	W	E	.	.	.	.	.
1480.	.	.	.	.	.	X	W	E	.	.	.	.	.

										KEYSCRSF.OUT										
1482.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
71484.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1486.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1488.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1490.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1492.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1494.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1496.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1498.	.	.	.	.	.X	C.	W	E	.	.	.	.	.	.						
1500.	.	.	.	.	.X	C.	W	E	.	.	.	.	.	.						
1502.	.	.	.	.	.X	C.	W	E	.	.	.	.	.	.						
1504.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1506.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1508.	.	.	.	.	X	C.	W	E	.	.	.	.	.	.						
1510.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1512.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1514.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
81516.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1518.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1520.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1522.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1524.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1526.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1528.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1530.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1532.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1534.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1536.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1538.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1540.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1542.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1544.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1546.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1548.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1550.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1552.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1554.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1556.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1558.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1560.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1562.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1564.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1566.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1568.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1570.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1572.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1574.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1576.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1578.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1580.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1582.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1584.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1586.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						
1588.	.	.	.	.	X.	C.	W	E	.	.	.	.	.	.						

KEYSCRSF.OUT									
1590.	.	.	.	X	.	C.	W	E	.
1592.	.	.	.	X	.	C.	W	E	.
1594.	.	.	.	X	.	C.	W	E	.
1596.	.	.	.	X	.	C.	W	E	.
1598.	.	.	.	X	.	C.	W	E	.
1600.	.	.	.	X	.	C.	W	E	.
1602.	.	.	.	X	.	C.	W	E	.
1604.	.	.	.	X	.	C.	W	E	.
1606.	.	.	.	X	.	C.	W	E	.
1608.	.	.	.	X	.	C.	W	E	.
1610.	.	.	.	X	.	C.	W	E	.
1612.	.	.	.	X	.	C.	W	E	.
1614.	.	.	.	X	.	C.	W	E	.
1616.	.	.	.	X	.	C.	W	E	.
1618.	.	.	.	X	.	C.	W	E	.
1620.	.	.	.	X	.	C.	W	E	.
1622.	.	.	.	X	.	C.	W	E	.
1624.	.	.	.	X	.	C.	W	E	.
1626.	.	.	.	X	.	C.	W	E	.
1628.	.	.	.	X	.	C.	W	E	.
1630.	.	.	.	X	.	C.	W	E	.
1632.	.	.	.	X	.	C.	W	E	.
1634.	.	.	.	X	.	C.	W	E	.
1636.	.	.	.	X	.	C.	W	E	.
1638.	.	.	.	X	.	C.	W	E	.
1640.	.	.	.	X	.	C.	W	E	.
1642.	.	.	.	X	.	C.	W	E	.
1644.	.	.	.	X	.	C.	W	E	.
1646.	.	.	.	X	.	C.	W	E	.
1648.	.	.	.	X	.	C.	W	E	.
1650.	.	.	.	X	.	C.	W	E	.
1652.	.	.	.	X	.	C.	W	E	.
1654.	.	.	.	X	.	C.	W	E	.
1656.	.	.	.	X	.	C.	W	E	.
1658.	.	.	.	X	.	C.	W	E	.
1660.	.	.	.	X	.	C.	W	E	.
1662.	.	.	.	X	.	C.	W	E	.
1664.	.	.	.	X	.	C.	W	E	.
1666.	.	.	.	X	.	C.	W	E	.
1668.	.	.	.	X	.	C.	W	E	.
1670.	.	.	.	X	.	C.	W	E	.
1672.	.	.	.	X	.	C.	W	E	.
1674.	.	.	.	X	.	C.	W	E	.
1676.	.	.	.	X	.	C.	W	E	.
1678.	.	.	.	X	.	C.	W	E	.
1680.	.	.	.	X	.	C.	W	E	.
1682.	.	.	.	X	.	C.	W	E	.
1684.	.	.	.	X	.	C.	W	E	.
1686.	.	.	.	X	.	C.	W	E	.
1688.	.	.	.	X	.	C.	W	E	.
1690.	.	.	.	X	.	C.	W	E	.
1692.	.	.	.	X	.	C.	W	E	.
91694.	.	.	.	X	.	C.	W	E	.
1696.	.	.	.	X	.	C.	W	E	.

BANK.

KEYSCRSF.OUT

1698.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
1700.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
1702.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
1704.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
1706.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
1708.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
1710.	.	.	.	.	X.	.	C.	W	E	.	.	.	.	.	.
101712.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
111714.	.	X	.	.	.	.	C.	W	E	.	.	.	.	.	.
1716.	.	X	.	.	.	.	C.	W	E	.	.	.	.	.	.
1718.	.	X	.	.	.	.	C.	W	E	.	.	.	.	.	.
1720.	.	X	.	.	.	.	C.	W	E	.	.	.	.	.	.
121722.	X	.	.	.	.	.	C.	W	E	.	.	.	.	.	.
1724.	.	X	.	.	.	.	C.	W	E	.	.	.	.	.	.
1726.	.	.	X	.	.	.	C.	W	E	.	.	.	.	.	.
131728.	.	.	X	.	.	.	C.	W	E	.	.	.	.	.	.
1730.	.	.	.	X	.	.	C.	W	E	.	.	.	.	.	.
1732.	.	.	.	X	.	.	C.	W	E	.	.	.	.	.	.
1734.	.	.	.	X	.	.	C.	W	E	.	.	.	.	.	.
1736.	.	.	.	X.	.	.	C.	W	E	.	.	.	.	.	.
1738.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
1740.	.	.	.	.	X	.	C.	W	E	.	.	.	.	.	.
141742.	.	.	.	.	.	X	C.	W	E	.	.	.	.	.	BANK.
1744.	.	.	.	.	.	.	XC.	W	E	.	.	.	.	.	.
151746.	.	.	.	.	.	.	.	X	.	.	.	.	.	.	.

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1430.00	1137.00	1429.00	1205.00	1428.60	1225.00	1428.00	1362.00	1428.00	1464.00
1425.60	1484.00	1425.00	1517.00	1425.00	1695.00	1424.00	1712.00	1422.00	1715.00
1421.20	1722.00	1423.00	1728.00	1425.00	1743.00	1427.00	1747.00	1428.00	1753.00
1428.30	1767.00								

1

CROSS SECTION 344.50
 STREAM IRF WITH UNNAMED WASH CO
 DISCHARGE= 1800.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1427.2 1427.7 1428.2 1428.7 1429.2 1429.7 1430.2 1430.7 1431.2 1431.7 1432.2

STA-FEET

2	0.	.	.	.	.	.	.	.	.	X	E	.
	5.	.	.	.	.	.	.	.	X	.	E	.
	10.	.	.	.	.	.	.	X	W	.	E	.
	15.	.	.	.	.	.	X	.	W	.	E	.
	20.	.	.	.	.	X.	.	.	W	.	E	.
	25.	.	.	.	.	X.	.	.	W	.	E	.
3	30.	.	.	.	X	.	.	.	W	.	E	BANK.
4	35.	X	.	.	.	.	.	.	W	.	E	.

KEYSCRSF.OUT

40.	X	.	.	.	.	.	.	.	.	W	.	E	.
45.	X	.	.	.	.	.	.	.	.	W	.	E	.
50.	X	.	.	.	.	.	.	.	.	W	.	E	.
5	55.	X	.	.	.	.	.	.	.	W	.	E	.
	60.	.	X	.	.	.	.	.	.	W	.	E	.
	65.	.	.	.	.X	.	.	.	.	W	.	E	.
6	70.	.	.	.	.	X	.	.	.	W	.	E	BANK.
	75.	.	.	.	.	.	X	.	.	W	.	E	.
	80.	.	.	.	.	.	.	X	.	W	.	E	.
	85.	.	.	.	.	.	.	.	X	W	.	E	.
	90.	.	.	.	.	.	.	.	.	W	.	E	.
	95.	.	.	.	.	.	.	X	.	W	.	E	.
	100.	.	.	.	.	.	.	.	X	W	.	E	.
	105.	.	.	.	.	.	.	.	.	W	.	E	.
	110.	.	.	.	.	.	.	.	X	W	.	E	.
	115.	.	.	.	.	.	.	.	.	W	.	E	.
	120.	.	.	.	.	.	.	.	.	W	.	E	.
	125.	.	.	.	.	.	.	.	.	X	W	.	E
	130.	.	.	.	.	.	.	.	.	.	W	.	E
	135.	.	.	.	.	.	.	.	.	.	X	W	.
	140.	.	.	.	.	.	.	.	.	.	.	X	W
	145.	.	.	.	.	.	.	.	.	.	.	.	X
	150.	.	.	.	.	.	.	.	.	.	.	X	W
	155.	.	.	.	.	.	.	.	.	.	.	.	X
8	160.	.	.	.	.	.	.	.	.	.	.	.	XXXXXXXXXXXXXXXXXXXXXXX

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
1432.00	.00	1429.20	30.00	1427.20	37.00	1427.20	57.00	1429.20	70.00
1431.10	158.00	1432.20	162.00	1433.00	230.00	1434.00	260.00	1435.00	300.00

1
CROSS SECTION 344.80
STREAM IRF WITH UNNAMED WASH CO
DISCHARGE= 1765.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV	1428.3	1429.3	1430.3	1431.3	1432.3	1433.3	1434.3	1435.3	1436.3	1437.3	1438.3
------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

STA-FEET

300.	.	.	.	.	.	X	.	E	.	.	.	.
3	305.	.	.	.	.	.	X	.	E	.	.	.
	310.	.	.	.	.	.	X	.	E	.	.	.
	315.	.	.	.	.	.	XW	.	E	.	.	.
	320.	.	.	.	.	.	XW	.	E	.	.	.
	325.	.	.	.	.	.	X W	.	E	.	.	.
	330.	.	.	.	.	.	X W	.	E	.	.	.
	335.	.	.	.	.	.	X W	.	E	.	.	.
	340.	.	.	.	.	.	X W	.	E	.	.	.
	345.	.	.	.	.	.	X W	.	E	.	.	.

										KEYSCRSF.OUT			
350.	.	.	.	.	.	X	W	E	.	.	.	.	
355.	.	.	.	.	.	X	W	E	.	.	.	.	
360.	.	.	.	.	.	X	W	E	.	.	.	.	
365.	.	.	.	.	.	X	W	E	.	.	.	.	
370.	.	.	.	.	.	X	W	E	.	.	.	.	
375.	.	.	.	.	.	X	W	E	.	.	.	.	
380.	.	.	.	.	.	X	W	E	.	.	.	.	
385.	.	.	.	.	.	X.	W	E	.	.	.	.	
390.	.	.	.	.	.	X.	W	E	.	.	.	.	
395.	.	.	.	.	.	X	W	E	.	.	.	.	
400.	.	.	.	.	.	X	W	E	.	.	.	.	
405.	.	.	.	.	.	X	W	E	.	.	.	.	
4 410.	.	.	.	.	.	X	W	E	.	.	.	.	
415.	.	.	.	.	.	X	W	E	.	.	.	.	
420.	.	.	.	.	.	X	W	E	.	.	.	.	
425.	.	.	.	.	.	X	W	E	.	.	.	.	
430.	.	.	.	.	.	X	W	E	.	.	.	.	
435.	.	.	.	.	.	X	W	E	.	.	.	.	
440.	.	.	.	.	.	X	W	E	.	.	.	.	
445.	.	.	.	.	.	X.	W	E	.	.	.	.	
450.	.	.	.	.	.	X.	W	E	.	.	.	.	
455.	.	.	.	.	.	X.	W	E	.	.	.	.	
460.	.	.	.	.	.	X.	W	E	.	.	.	.	
465.	.	.	.	.	.	X.	W	E	.	.	.	.	
470.	.	.	.	.	.	X	W	E	.	.	.	.	
475.	.	.	.	.	.	X	W	E	.	.	.	.	
480.	.	.	.	.	.	X	W	E	.	.	.	.	
485.	.	.	.	.	.	X	W	E	.	.	.	.	
490.	.	.	.	.	.	X	W	E	.	.	.	.	
495.	.	.	.	.	.	X	W	E	.	.	.	.	
500.	.	.	.	.	.	X	W	E	.	.	.	.	
505.	.	.	.	.	.	X	W	E	.	.	.	.	
510.	.	.	.	.	.	X	W	E	.	.	.	.	
515.	.	.	.	.	.	X	W	E	.	.	.	.	
5 520.	.	.	.	.	.	X	W	E	.	.	.	BANK.	
525.	.	.	X	.	.	.	W	E	.	.	.	.	
6 530. X	.	.	.	.	.	.	W	E	.	.	.	.	
535. X	.	.	.	.	.	.	W	E	.	.	.	.	
540. X	.	.	.	.	.	.	W	E	.	.	.	.	
545. X	.	.	.	.	.	.	W	E	.	.	.	.	
7 550. X	.	.	.	.	.	.	W	E	.	.	.	.	
555.	.	X	.	.	.	.	W	E	.	.	.	.	
560.	.	.	X	.	.	.	W	E	.	.	.	.	
565.	.	.	.	.	X	.	W	E	.	.	.	.	
8 570.	.	.	.	.	.	.	X	E	.	.	.	BANK.	

NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

1435.00	246.00	1434.00	304.00	1433.00	408.00	1433.50	520.00	1428.30	530.00
1428.30	550.00	1434.00	570.00	1435.00	655.00	1435.00	800.00	1434.50	905.00

1

CROSS SECTION 344.90
STREAM IRF WITH UNNAMED WASH CO

ELEV	1428.5	1429.5	1430.5	1431.5	1432.5	1433.5	1434.5	1435.5	1436.5	1437.5	1438.5
------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

STA- FEET							
8560	XSEC	POINT-B	EL,ST-	.00	.00		
5	225.	.	.	.	.	.	X
	230.	.	.	.	.	.	X
	235.	.	.	.	.	.	X
	240.	.	.	.	.	.	X
	245.	.	.	.	.	.	X
	250.	.	.	.	.	.	X
	255.	.	.	.	.	.	X
	260.	.	.	.	.	.	X
	265.	.	.	.	.	.	X
	270.	.	.	.	.	.	X
	275.	.	.	.	.	.	X
	280.	.	.	.	.	.	XE
	285.	.	.	.	.	.	XE
	290.	.	.	.	.	.	XE
	295.	.	.	.	.	.	XE
	300.	.	.	.	.	.	X E
	305.	.	.	.	.	.	X E
	310.	.	.	.	.	.	X E
	315.	.	.	.	.	.	X. E
	320.	.	.	.	.	.	X. E
	325.	.	.	.	.	.	X. E
	330.	.	.	.	.	.	XW. E
	335.	.	.	.	.	.	XW. E
	340.	.	.	.	.	.	XW. E
	345.	.	.	.	.	.	X W. E
	350.	.	.	.	.	.	X W. E
	355.	.	.	.	.	.	X W. E
	360.	.	.	.	.	.	X W. E
	365.	.	.	.	.	.	X W. E
	370.	.	.	.	.	.	X W. E
	375.	.	.	.	.	.	X W. E
	380.	.	.	.	.	.	X W. E
	385.	.	.	.	.	.	X W. E
	390.	.	.	.	.	.	X W. E
	395.	.	.	.	.	.	X W. E
	400.	.	.	.	.	.	X W. E
	405.	.	.	.	.	.	X W. E
	410.	.	.	.	.	.	X W. E
	415.	.	.	.	.	.	X W. E
	420.	.	.	.	.	.	X W. E
	425.	.	.	.	.	.	X W. E
	430.	.	.	.	.	.	X W. T
	435.	.	.	.	.	.	X WT E

KEYSCRSF.OUT											
440.	.	.	.	.	.	.	.X	TW.	E	.	T
445.	.	.	.	.	.	.	.X	T	W.	E	.
450.	.	.	.	.	.	.	.X	T	W.	E	.
6 455.	.C	.	.	.	.	.	.T		W.	E	.
460.	.	.	.	.	X	.	TT		W.	E	.
465.	.	.	X	.	.	.	TT		W.	E	.
470.	.	X	.	.	.	.	.T		W.	E	.
475.	X	.	.	.	.	.	.T		W.	E	.
7 480.	X	.	.	.	.	.	.T		W.	E	.
485.	X	.	.	.	.	.	TT		W.	E	.
490.	X	.	.	.	.	.	.T		W.	E	.
495.	X	.	.	.	.	.	.T		W.	E	.
8 500.	X	.	.	.	.	.	.T		W.	E	.
505.	.	X	.	.	.	.	.TT		W.	E	.
510.	.	.	X	.	.	.	.TT		W.	E	.
515.	.	.	.	X	.	.	.TT		W.	E	.
520.	.	.	.	.	X.	.	.T	T	W.	E	.
9 525.	.	.	.	.	.	.	XT		W.	E	BANK.
530.	.	.	.	.	.	.	XT		W.	E	.
535.	.	.	.	.	.	.	XT		W.	E	.
540.	.	.	.	.	.	.	.X		W.	E	.
545.	.	.	.	.	.	.	.X		W.	E	.
550.	.	.	.	.	.	.	.X		W.	E	.
555.	.	.	.	.	.	.	.X		W.	E	.
560.	.	.	.	.	.	.	.X		W.	E	.
565.	.	.	.	.	.	.	.X		W.	E	.
570.	.	.	.	.	.	.	.TX		W.	E	.
575.	.	.	.	.	.	.	.TX		W.	E	.
580.	.	.	.	.	.	.	.TX		W.	E	.
585.	.	.	.	.	.	.	.TX		W.	E	.
590.	.	.	.	.	.	.	.TX		W.	E	.
595.	.	.	.	.	.	.	.TX		W.	E	.
600.	.	.	.	.	.	.	.T	X	W.	E	.
605.	.	.	.	.	.	.	.T	X	W.	E	.
610.	.	.	.	.	.	.	.T	X	W.	E	.
615.	.	.	.	.	.	.	.T	X	W.	E	.
620.	.	.	.	.	.	.	.T	X	W.	E	.
625.	.	.	.	.	.	.	.T	X	W.	E	.
630.	.	.	.	.	.	.	.T	X	W.	E	.
635.	.	.	.	.	.	.	.T	X	W.	E	.
640.	.	.	.	.	.	.	.T	X	W.	E	.
645.	.	.	.	.	.	.	.T	T	W.	E	.
650.	.	.	.	.	.	.	.T	XT	W.	E	.
655.	.	.	.	.	.	.	.T	T	W.	E	.
660.	.	.	.	.	.	.	.T	XT	W.	E	.
665.	.	.	.	.	.	.	.T	X	T	W.	E
10 670.	.	.	.	.	.	.	.T	X	W.	E	.
675.	.	.	.	.	.	.	.T	X	W.	E	.
680.	.	.	.	.	.	.	.T	X	W.	E	.
685.	.	.	.	.	.	.	.T	X	W.	E	.
690.	.	.	.	.	.	.	.T	X	W.	E	.
695.	.	.	.	.	.	.	.T	X	W.	E	.
700.	.	.	.	.	.	.	.T	X	W.	E	.
705.	.	.	.	.	.	.	.T	X	W.	E	.

Page 139

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                                KEYSCRSF.OUT
1755. . . . . . X . W . E . . .
1760. . . . . . X . W . E . . .
1765. . . . . . X . W . E . . .
1770. . . . . . X . W . E . . .
1775. . . . . . X . W . E . . .
1780. . . . . . X . W . E . . .
1785. . . . . . X . W . E . . .
1790. . . . . . X . W . E . . .
1795. . . . . . X . W . E . . .
1800. . . . . . X . W . E . . .
1805. . . . . . X . W . E . . .
1810. . . . . . X . W . E . . .
1815. . . . . . X . W . E . . .
1820. . . . . . X . W . E . . .
1825. . . . . . X . W . E . . .
1830. . . . . . X . W . E . . .
1835. . . . . . X . W . E . . .
1840. . . . . . X . W . E . . .
1845. . . . . . X . W . E . . .
1850. . . . . . X . W . E . . .
1855. . . . . . X . W . E . . .
1860. . . . . . X . W . E . . .
111865. . . . . . X . W . E . . .
1870. . . . . . X . W . E . . .
1875. . . . . . X . W . E . . .
1880. . . . . . X . W . E . . .
1885. . . . . . X . W . E . . .
1890. . . . . . X . W . E . . .
1895. . . . . . X . W . E . . .
1900. . . . . . X . W . E . . .
131905. . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)									
100000.00	1427.00	100000.00	1552.00	100000.00	1644.00	1438.43	1644.00	1438.30	1665.00
1435.60	1683.00	1435.60	1693.00	1438.00	1700.00	1438.20	1734.00	1438.30	1865.00
1438.43	1905.00	100000.00	1905.00	100000.00	1925.00	100000.00	2105.00	100000.00	2215.00

1
CROSS SECTION 346.00
STREAM IRF WITH UNNAMED WASH CO
DISCHARGE= 1700.

PLOTTED POINTS (BY PRIORITY)-B=BOTTOM BRIDGE,T=TOP BRIDGE,X=GROUND,W=WATER SUR,E=ENERGY GRADIENT,C=CRITICAL WSEL

ELEV 1444.0 1446.0 1448.0 1450.0 1452.0 1454.0 1456.0 1458.0 1460.0 1462.0 1464.0

STA-FEET

241338. .	.		X	.	.	.	.	.	.	BANK.
1340. .	.		X	.	.	.	.	.	.	.
1342. .	.		XE	.	.	.	.	.	.	.

KEYSCRSF.OUT

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1344. . . . X E . . . . . . . . . .
1346. . . . X E . . . . . . . . . .
1348. . . . X W E . . . . . . . . . .
1350. . . . X W E . . . . . . . . . .
1352. . . . X W E . . . . . . . . . .
1354. . . X W E . . . . . . . . . .
1356. . . X W E . . . . . . . . . .
1358. . . X W E . . . . . . . . . .
1360. . . X W E . . . . . . . . . .
1362. .X W E . . . . . . . . . .
251364. X . W E . . . . . . . . . .
1366. X . W E . . . . . . . . . .
1368. X . W E . . . . . . . . . .
1370. X . W E . . . . . . . . . .
1372. X . W E . . . . . . . . . .
1374. X . W E . . . . . . . . . .
1376. X . W E . . . . . . . . . .
261378. X . W E . . . . . . . . . .
1380. .X W E . . . . . . . . . .
1382. . X W E . . . . . . . . . .
1384. . X W E . . . . . . . . . .
1386. . X W E . . . . . . . . . .
271388. . X W E . . . . . . . . . .
1390. . X W E . . . . . . . . . .
1392. . X W E . . . . . . . . . .
1394. . X W E . . . . . . . . . .
1396. . X W E . . . . . . . . . .
1398. . X W E . . . . . . . . . .
1400. . X W E . . . . . . . . . .
1402. . X W E . . . . . . . . . .
1404. . X W E . . . . . . . . . .
1406. . X W E . . . . . . . . . .
1408. . X W E . . . . . . . . . .
281410. . X W E . . . . . . . . . .
1412. . . X W E . . . . . . . . . .
1414. . . X W E . . . . . . . . . .
1416. . . X W E . . . . . . . . . .
1418. . . X W E . . . . . . . . . .
1420. . . X W E . . . . . . . . . .
1422. . . X E . . . . . . . . . .
1424. . . X E . . . . . . . . . .
1426. . . X E . . . . . . . . . .
1428. . . XE . . . . . . . . . .
1430. . . X . . . . . . . . . .
1432. . . X . . . . . . . . . .
291434. . . X . . . . . . . . . .

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NRD= 0 ELLC= 9999999.00 ELTRD= 9999999.00

EL(I),STA(I)

100000.00	45.00	100000.00	56.00	100000.00	88.00	100000.00	125.00	100000.00	189.00
100000.00	252.00	100000.00	313.00	100000.00	389.00	100000.00	456.00	100000.00	576.00
100000.00	653.00	100000.00	709.00	100000.00	755.00	100000.00	794.00	100000.00	835.00
100000.00	880.00	100000.00	945.00	100000.00	1060.00	100000.00	1122.00	100000.00	1245.00

					KEYSCRSF.OUT				
100000.00	1321.00	100000.00	1339.00	1450.00	1339.00	1444.00	1364.00	1444.00	1378.00
1445.00	1389.00	1446.00	1411.00	1450.00	1435.00	100000.00	1435.00	100000.00	1469.00
100000.00	1525.00	100000.00	1603.00	100000.00	1631.00	100000.00	1662.00	100000.00	1683.00
100000.00	1691.00	100000.00	1723.00	100000.00	1757.00	100000.00	1804.00	100000.00	1839.00
100000.00	1875.00	100000.00	1922.00	100000.00	1979.00	100000.00	2012.00		

1

PROFILE FOR STREAM IRF WITH UNNAMED WASH CO

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1257.	1307.	1357.	1407.	1457.	1507.	1557.	1607.	1657.	1707.
SECNO	CUMDIS									
300.00	0. I WE M .									
	50. I CEL M .									
	100. .I EL M .									
	150. .I WEL M .									
	200. .I EL M .									
301.00	250. .I WEL M .									
302.00	300. . I WE M .									
	350. . I WE M .									
	400. . I CE M.									
	450. . ICE M.									
303.00	500. . ICEL M									
	550. . I WE M									
304.00	600. . I EL .M									
305.00	650. . ICEL .M									
306.00	700. . I WE . M									
307.00	750. . IRCE . M									
	800. . I CE . M									
	850. . I EL. M									
308.00	900. . I WEL M									
	950. . I WE. M									
	1000. . I WE. M									
	1050. . I RCE. M									
309.00	1100. . IC E. M									
	1150. . ILCE. M									
	1200. . ILCE. M									
	1250. . ILCE. M									
310.00	1300. . I CE. M									
	1350. . ICE. M									
	1400. . ILE. M									
	1450. . IRE. M									
311.00	1500. . IRE. M									
	1550. . IE. M									
	1600. . IE. M									
	1650. . IE. M									
	1700. . IWE M									
	1750. . IWE M									
	1800. . ILE M									

KEYSCRSF.OUT

	1850.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
312.00	1900.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
	1950.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
	2000.	.	I	E	M	.	.	.	.	.	.	.	.	.
	2050.	.	I	WE	M	.	.	.	.	.	.	.	.	.
	2100.	.	I	WE	M	.	.	.	.	.	.	.	.	.
	2150.	.	I	LE	M	.	.	.	.	.	.	.	.	.
	2200.	.	I	LE	M	.	.	.	.	.	.	.	.	.
	2250.	.	I	LE	M	.	.	.	.	.	.	.	.	.
313.00	2300.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
	2350.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
	2400.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
	2450.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
	2500.	.	IWE	M	.	.	.	.	.	.	.	.	.	.
	2550.	.	IWE	M	.	.	.	.	.	.	.	.	.	.
314.00	2600.	.	IWE	M	.	.	.	.	.	.	.	.	.	.
	2650.	.	IWE	M	.	.	.	.	.	.	.	.	.	.
	2700.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
315.00	2750.	.	ILE	M	.	.	.	.	.	.	.	.	.	.
	2800.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	2850.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	2900.	.	.WE	M	.	.	.	.	.	.	.	.	.	.
316.00	2950.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3000.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3050.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3100.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3150.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3200.	.	.WE	M	.	.	.	.	.	.	.	.	.	.
	3250.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
317.00	3300.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3350.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3400.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3450.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3500.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3550.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3600.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3650.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3700.	.	.IWE	M	.	.	.	.	.	.	.	.	.	.
	3750.	.	.IWE	M	.	.	.	.	.	.	.	.	.	.
	3800.	.	.ICE	M	.	.	.	.	.	.	.	.	.	.
	3850.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3900.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	3950.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	4000.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	4050.	.	.IE	M	.	.	.	.	.	.	.	.	.	.
	4100.	.	.IE	.M	.	.	.	.	.	.	.	.	.	.
	4150.	.	.IE	.M	.	.	.	.	.	.	.	.	.	.
	4200.	.	.IE	.M	.	.	.	.	.	.	.	.	.	.
	4250.	.	.IE	.M	.	.	.	.	.	.	.	.	.	.
	4300.	.	.IE	.M	.	.	.	.	.	.	.	.	.	.
	4350.	.	.IE	.M	.	.	.	.	.	.	.	.	.	.
	4400.	.	.IWE	.M	.	.	.	.	.	.	.	.	.	.
	4450.	.	.IWE	.M	.	.	.	.	.	.	.	.	.	.
318.00	4500.	.	.ICE	.M	.	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

	4550.	.	IE	.M	.	.	.	.	.	.	.	.
	4600.	.	IE	.M	.	.	.	.	.	.	.	.
	4650.	.	IE	M	.	.	.	.	.	.	.	.
	4700.	.	IE	M	.	.	.	.	.	.	.	.
	4750.	.	IE	M.	.	.	.	.	.	.	.	.
	4800.	.	IE	M.	.	.	.	.	.	.	.	.
319.00	4850.	.	IE	M	.	.	.	.	.	.	.	.
321.00	4900.	C	IE	M	.	.	.	.	.	.	.	.
322.00	4950.	.	IE	.M	.	.	.	.	.	.	.	.
	5000.	.	IE	.M	.	.	.	.	.	.	.	.
	5050.	.	IE	.M	.	.	.	.	.	.	.	.
323.00	5100.	.	IWE	. M	.	.	.	.	.	.	.	.
	5150.	.	IE	. M	.	.	.	.	.	.	.	.
	5200.	.	IE	. M	.	.	.	.	.	.	.	.
	5250.	.	IE	. M	.	.	.	.	.	.	.	.
	5300.	.	IEL	. M	.	.	.	.	.	.	.	.
	5350.	.	IEL	. M	.	.	.	.	.	.	.	.
	5400.	.	IE L.	M	.	.	.	.	.	.	.	.
	5450.	.	IE L.	M	.	.	.	.	.	.	.	.
324.00	5500.	.	IE L	M	.	.	.	.	.	.	.	.
	5550.	.	IE L	M	.	.	.	.	.	.	.	.
	5600.	.	IWEL.	M	.	.	.	.	.	.	.	.
	5650.	.	IWEL.	M	.	.	.	.	.	.	.	.
	5700.	.	IREL.	M	.	.	.	.	.	.	.	.
	5750.	.	IREL.	M	.	.	.	.	.	.	.	.
	5800.	.	IREL.	M	.	.	.	.	.	.	.	.
	5850.	.	IE	. M	.	.	.	.	.	.	.	.
	5900.	.	IE	. M	.	.	.	.	.	.	.	.
325.00	5950.	.	IE	. M	.	.	.	.	.	.	.	.
	6000.	.	IE	. M	.	.	.	.	.	.	.	.
325.10	6050.	.	IE	. M	.	.	.	.	.	.	.	.
325.30	6100.	C	I E.	M	.	.	.	.	.	.	.	.
327.00	6150.	.	ILE.	M	.	.	.	.	.	.	.	.
328.00	6200.	.	IRE.	M	.	.	.	.	.	.	.	.
	6250.	.	IRE.	M	.	.	.	.	.	.	.	.
	6300.	.	I WE	M	.	.	.	.	.	.	.	.
	6350.	.	I WE	M	.	.	.	.	.	.	.	.
	6400.	.	ILE	M	.	.	.	.	.	.	.	.
	6450.	.	ILE	M	.	.	.	.	.	.	.	.
	6500.	.	ILE	M	.	.	.	.	.	.	.	.
	6550.	.	ILE	M	.	.	.	.	.	.	.	.
329.00	6600.	.	ILE	M	.	.	.	.	.	.	.	.
	6650.	.	IE	M	.	.	.	.	.	.	.	.
	6700.	.	IWE	M	.	.	.	.	.	.	.	.
	6750.	.	IWE	M	.	.	.	.	.	.	.	.
	6800.	.	IWE	M	.	.	.	.	.	.	.	.
	6850.	.	ILE	M	.	.	.	.	.	.	.	.
	6900.	.	ILE	M	.	.	.	.	.	.	.	.
	6950.	.	IE	M	.	.	.	.	.	.	.	.
	7000.	.	IE	M	.	.	.	.	.	.	.	.
330.00	7050.	.	IE	M	.	.	.	.	.	.	.	.
	7100.	.	IE	M	.	.	.	.	.	.	.	.
	7150.	.	IE	M	.	.	.	.	.	.	.	.
	7200.	.	IE	M	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

	7250.	.	.	IWE M	.	.	.	.	.	.	.	.
	7300.	.	.	IWEM	.	.	.	.	.	.	.	.
	7350.	.	.	IWEM	.	.	.	.	.	.	.	.
	7400.	.	.	.IEM	.	.	.	.	.	.	.	.
	7450.	.	.	.IEM	.	.	.	.	.	.	.	.
	7500.	.	.	.IE	.	.	.	.	.	.	.	.
331.00	7550.	.	.	.IE	.	.	.	.	.	.	.	.
	7600.	.	.	.IE	.	.	.	.	.	.	.	.
	7650.	.	.	.IE	.	.	.	.	.	.	.	.
	7700.	.	.	.IE	.	.	.	.	.	.	.	.
	7750.	.	.	.IEL	.	.	.	.	.	.	.	.
	7800.	.	.	.IEL	.	.	.	.	.	.	.	.
332.00	7850.	.	.	.IEM	.	.	.	.	.	.	.	.
	7900.	.	.	.IWEL	.	.	.	.	.	.	.	.
	7950.	.	.	.IWE	.	.	.	.	.	.	.	.
	8000.	.	.	.WE	.	.	.	.	.	.	.	.
	8050.	.	.	.IE	.	.	.	.	.	.	.	.
	8100.	.	.	.IE	.	.	.	.	.	.	.	.
	8150.	.	.	.IE	.	.	.	.	.	.	.	.
	8200.	.	.	.IE	.	.	.	.	.	.	.	.
	8250.	.	.	.IE	.	.	.	.	.	.	.	.
	8300.	.	.	.IE	.	.	.	.	.	.	.	.
333.00	8350.	.	.	.IE	.	.	.	.	.	.	.	.
	8400.	.	.	.IE	.	.	.	.	.	.	.	.
	8450.	.	.	.IEM	.	.	.	.	.	.	.	.
	8500.	.	.	.IEM	.	.	.	.	.	.	.	.
	8550.	.	.	.IEM	.	.	.	.	.	.	.	.
	8600.	.	.	.IWE	.	.	.	.	.	.	.	.
	8650.	.	.	.ICE	.	.	.	.	.	.	.	.
	8700.	.	.	.ILE	.	.	.	.	.	.	.	.
	8750.	.	.	.IEM	.	.	.	.	.	.	.	.
	8800.	.	.	.IEM	.	.	.	.	.	.	.	.
	8850.	.	.	.IEM	.	.	.	.	.	.	.	.
	8900.	.	.	.IEM	.	.	.	.	.	.	.	.
	8950.	.	.	.IEM	.	.	.	.	.	.	.	.
	9000.	.	.	.IEM	.	.	.	.	.	.	.	.
	9050.	.	.	.IE M	.	.	.	.	.	.	.	.
	9100.	.	.	.IWEM	.	.	.	.	.	.	.	.
	9150.	.	.	.ICEM	.	.	.	.	.	.	.	.
334.00	9200.	.	.	.ILEM	.	.	.	.	.	.	.	.
	9250.	.	.	.ILEM	.	.	.	.	.	.	.	.
336.00	9300.	C	.	.I EM	.	.	.	.	.	.	.	.
	9350.	C	.	.IEM	.	.	.	.	.	.	.	.
	9400.	C	.	.IEM	.	.	.	.	.	.	.	.
	9450.	C	.	.IEM	.	.	.	.	.	.	.	.
	9500.	C	.	.IWE	.	.	.	.	.	.	.	.
	9550.	C	.	.IWE	.	.	.	.	.	.	.	.
	9600.	.	C	.IE	.	.	.	.	.	.	.	.
337.00	9650.	.	.	.IE	.	.	.	.	.	.	.	.
	9700.	.	.	.IE	.	.	.	.	.	.	.	.
	9750.	.	.	.IE	.	.	.	.	.	.	.	.
	9800.	.	.	.IE	.	.	.	.	.	.	.	.
	9850.	.	.	.IEM	.	.	.	.	.	.	.	.
	9900.	.	.	.IEM	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

	9950.	.	.	IEM	.	.	.	.	.	.	.	.
	10000.	.	.	EM	.	.	.	.	.	.	.	.
	10050.	.	.	EM	.	.	.	.	.	.	.	.
	10100.	.	.	WE	.	.	.	.	.	.	.	.
	10150.	.	.	IEM	.	.	.	.	.	.	.	.
	10200.	.	.	IEM	.	.	.	.	.	.	.	.
	10250.	.	.	IEM	.	.	.	.	.	.	.	.
	10300.	.	.	IEM	.	.	.	.	.	.	.	.
	10350.	.	.	IEM	.	.	.	.	.	.	.	.
	10400.	.	.	EM	.	.	.	.	.	.	.	.
	10450.	.	.	EM	.	.	.	.	.	.	.	.
338.00	10500.	.	.	E M.	.	.	.	.	.	.	.	.
	10550.	.	.	WEM.	.	.	.	.	.	.	.	.
	10600.	.	.	IEM.	.	.	.	.	.	.	.	.
	10650.	.	.	IEM.	.	.	.	.	.	.	.	.
	10700.	.	.	IE M	.	.	.	.	.	.	.	.
	10750.	.	.	IE M	.	.	.	.	.	.	.	.
	10800.	.	.	IE M	.	.	.	.	.	.	.	.
	10850.	.	.	E M	.	.	.	.	.	.	.	.
	10900.	.	.	E .M	.	.	.	.	.	.	.	.
	10950.	.	.	E .M	.	.	.	.	.	.	.	.
	11000.	.	.	WE.M	.	.	.	.	.	.	.	.
	11050.	.	.	IE.M	.	.	.	.	.	.	.	.
	11100.	.	.	IE. M	.	.	.	.	.	.	.	.
	11150.	.	.	IE. M	.	.	.	.	.	.	.	.
	11200.	.	.	IE. M	.	.	.	.	.	.	.	.
	11250.	.	.	IE. M	.	.	.	.	.	.	.	.
339.00	11300.	.	.	ER M	.	.	.	.	.	.	.	.
	11350.	.	.	ER M	.	.	.	.	.	.	.	.
	11400.	.	.	ER M	.	.	.	.	.	.	.	.
	11450.	.	.	ER M	.	.	.	.	.	.	.	.
	11500.	.	.	WE M	.	.	.	.	.	.	.	.
	11550.	.	.	IE M	.	.	.	.	.	.	.	.
	11600.	.	.	IE M	.	.	.	.	.	.	.	.
	11650.	.	.	IE M	.	.	.	.	.	.	.	.
	11700.	.	.	IE M	.	.	.	.	.	.	.	.
340.00	11750.	.	.	IE M	.	.	.	.	.	.	.	.
	11800.	.	.	IE M	.	.	.	.	.	.	.	.
	11850.	.	.	IER M	.	.	.	.	.	.	.	.
	11900.	.	.	IER M	.	.	.	.	.	.	.	.
	11950.	.	.	IER M	.	.	.	.	.	.	.	.
	12000.	.	.	I.E M	.	.	.	.	.	.	.	.
	12050.	.	.	I.E M	.	.	.	.	.	.	.	.
	12100.	.	.	I.E M	.	.	.	.	.	.	.	.
	12150.	.	.	IE M	.	.	.	.	.	.	.	.
	12200.	.	.	IER M	.	.	.	.	.	.	.	.
	12250.	.	.	IER M	.	.	.	.	.	.	.	.
	12300.	.	.	IER M	.	.	.	.	.	.	.	.
	12350.	.	.	IER M	.	.	.	.	.	.	.	.
	12400.	.	.	IER M	.	.	.	.	.	.	.	.
340.10	12450.	.	.	I E M	.	.	.	.	.	.	.	.
	12500.	.	.	I E M	.	.	.	.	.	.	.	.
	12550.	.	.	I E M	.	.	.	.	.	.	.	.
	12600.	.	.	I E M	.	.	.	.	.	.	.	.

KEYSCRSF.OUT									
	12650.	.	.	.	.IER	M	.	.	.
	12700.	.	.	.	.IER	M	.	.	.
	12750.	.	.	.	.IER	M	.	.	.
	12800.	.	.	.	.IER	M	.	.	.
	12850.	.	.	.	.IWE	M	.	.	.
	12900.	.	.	.	.ILE	M	.	.	.
	12950.	.	.	.	.I E	M	.	.	.
	13000.	.	.	.	.I E	M	.	.	.
	13050.	.	.	.	. IE	M	.	.	.
341.00	13100.	.	.	.	. IE	M	.	.	.
	13150.	.	.	.	. IE	M	.	.	.
	13200.	.	.	.	. IE	M	.	.	.
	13250.	.	.	.	. IER	M	.	.	.
	13300.	.	.	.	. IER	M	.	.	.
	13350.	.	.	.	. IER	M	.	.	.
342.00	13400.	.	.	.	. IWE	M	.	.	.
	13450.	.	.	.	. IEM		.	.	.
344.00	13500.	.	.	.	. IE		.	.	.
344.10	13550.	.	.	.	. IE		.	.	.
	13600.	.	.	.	. IE		.	.	.
	13650.	.	.	.	. IE		.	.	.
	13700.	.	.	.	. IEM		.	.	.
	13750.	.	.	.	. IEM		.	.	.
	13800.	.	.	.	. WE		.	.	.
	13850.	.	.	.	. IE		.	.	.
	13900.	.	.	.	. IE		.	.	.
	13950.	.	.	.	. IE		.	.	.
344.50	14000.	.	.	.	. IE		.	.	.
	14050.	.	.	.	. IE		.	.	.
	14100.	.	.	.	. IE		.	.	.
344.80	14150.	.	.	.	. IWE		.	.	.
344.90	14200.	C	.	.	. I E		.	.	.
	14250.	C	.	.	. IE		.	.	.
	14300.	C	.	.	. IE		.	.	.
	14350.	C	.	.	. IE		.	.	.
345.00	14400.	.	.	.	. WE		.	.	.
	14450.	.	.	.	. IE		.	.	R
	14500.	.	.	.	. IE		.	.	R
	14550.	.	.	.	. IEM		.	.	R
	14600.	.	.	.	. IEM		.	.	R
	14650.	.	.	.	. IEM		.	.	R
	14700.	.	.	.	. WEM.		.	.	R
	14750.	.	.	.	. WEM.		.	.	R
	14800.	.	.	.	. IEM.		.	.	R
	14850.	.	.	.	. IE M		.	.	R
	14900.	.	.	.	. IE M		.	.	R
	14950.	.	.	.	. IE M		.	.	R
346.00	15000.	.	.	.	. IEL.M		.	.	R

1

19AUG14 08:33:52

PAGE 40

T1 KEY CREEK SAN DIEGO COUNTY BOB SCHAETZEL FLOOD PLAIN SECT. LAD X5440

T2 SOUTH FORK WITH UPDATED X342-X346 TO INCLUDE VALLEY CENTER ESTATES SUBDV

T3 10 YR WITH REVISED CHANNEL BANKS. UPDATE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3		0	0				1262.20	
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0								15

1

19AUG14 08:33:52

PAGE 41

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

0

CCHV= .100 CEHV= .300

*SECNO 300.000

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1272.20 ELREA= 1271.70

KEYS CREEK RIVER MILES WERE ESTABLISHED BY ASSIGNING ZERO TO ITS CONFLUENCE WITH SAN LUIS REY RIVER. THE VALUES FOR THE SOUTH FORK ARE TABULATED BELOW:

CROSS SECTION NUMBER#	RIVER MILE	CROSS SECTION NUMBER#	RIVER MILE
300 REACH END	12.140	301	12.185
302	12.198	303	12.240
304	12.256	305 VALLEY CENTER	12.264
306 ROAD BRIDGE	12.272	307	12.282
308	12.316	309	12.356
310	12.404	311	12.431
312	12.518	313	12.600
314	12.648	315	12.676
316	12.718	317	12.850
CREEK BED FROM X-316 TO X-318 REDEFINED TO THE SOUTH OF PREVIOUS SELECTIO			
THUS RIVER MILE FOR X-318 TO X-346 ARE .03 MI. TOO GREAT. BECAUSE THE JO			
JOB IS COMPLETE, RENUMBERING WILL NOT BE UNDERTAKEN AT THIS TIME. THIS			
MESSAGE WILL RECORD ITS OCCURENCE FOR POSSIBLE FUTURE STUDIES.			
318	13.088	319 COLE GRADE	13.153
320 NOT UTILIZED - - -		321 ROAD DIP	13.161
322	13.170	323	13.207
324	13.282	325	13.362

		KEYSCRSF.OUT
325.1 DIRT ROAD	13.380	325.3 BRIDGE
326 NOT UTILIZED	- - -	327
328	13.406	13.400
330	13.560	329
332	13.718	13.478
334 STABLE ROAD	13.994	331
336	14.003	13.653
338	14.250	333
340	14.537	13.823
341	14.796	335 NOT UTILIZED
343 NOT UTILIZED	14.864	337
344.1	14.880	14.069
		339
		14.454
		340.1
		14.674
		342 ROUNDTREE RD
		14.858
		344 U.S.72IN.CMP
		14.870
		344.5
		14.980

1

19AUG14 08:33:52

PAGE 42

344.8	15.010	QUEENSBRIDGE RD	344.9 U.S.BRIDGE	15.018
345	15.084		346 REACH START	15.160

UNNAMED WASH CONFINED TO ITS STREAMBED THUS CONFLUENCES 2400CFS AT X346.

VALLEY CENTER ESTATES SUBDIVISION BETWEEN X342-X346 HAS BEEN INCLUDED IN THIS LATEST UPDATE OF SOUTH FORK. ALL HEC2 RUNS PRIOR TO MARCH 19 ARE INCORRECT FROM X342 TO X346.

BASIC CHANGE IN COE POLICY TO PERMIT FLOODWAY ENCROACHMENT IN CRITICAL DEPTH SECTIONS BUT RESTRICTING VELOCITY TO 5FPS AT ENCROACHED BOUNDARY.

300.000	5.42	1262.22	1262.22	1262.20	1263.66	1.44	.00	.00	1272.20
1300.0	.0	1300.0	.0	.0	134.9	.0	.0	.0	1271.70
.00	.00	9.63	.00	.000	.030	.000	.000	1256.80	100.90
.009756	0.	0.	0.	0	4	0	.00	47.48	148.38

FLOW DISTRIBUTION FOR SECNO= 300.00 CWSEL= 1262.22

STA= 101. 200.

PER Q= 100.0

AREA= 134.9

VEL= 9.6

DEPTH= 2.8

*SECNO 301.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1285.50 ELREA= 1279.50

301.000	7.04	1271.04	1271.04	.00	1272.67	1.63	2.27	.06	1285.50
1300.0	.0	1300.0	.0	.0	126.9	.0	.7	.2	1279.50
.01	.00	10.24	.00	.000	.030	.000	.000	1264.00	313.09
.010011	230.	230.	230.	20	11	0	.00	39.56	352.65

FLOW DISTRIBUTION FOR SECNO= 301.00 CWSEL= 1271.04

STA= 313. 371.
 PER Q= 100.0
 AREA= 126.9
 VEL= 10.2
 DEPTH= 3.2

*SECNO 302.000
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL

1

19AUG14 08:33:52

PAGE 43

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XLN	XLNCH	XLNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1279.90 ELREA= 1281.00

302.000	6.35	1275.95	1275.95	.00	1277.90	1.95	.69	.10	1279.90
1300.0	.0	1300.0	.0	.0	116.0	.0	.9	.3	1281.00
.01	.00	11.20	.00	.000	.030	.000	.000	1269.60	251.81
.009771	70.	70.	70.	20	11	0	.00	30.33	282.14

FLOW DISTRIBUTION FOR SECNO= 302.00 CWSEL= 1275.95

STA= 252. 291.
 PER Q= 100.0
 AREA= 116.0
 VEL= 11.2
 DEPTH= 3.8

*SECNO 303.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1289.90 ELREA= 1290.30

303.000	4.15	1280.25	1280.25	.00	1281.37	1.12	1.82	.08	1289.90
1300.0	.0	1300.0	.0	.0	153.1	.0	1.4	.5	1290.30
.01	.00	8.49	.00	.000	.030	.000	.000	1276.10	365.06
.010462	140.	180.	200.	20	14	0	.00	69.33	434.39

KEYSCRSF.OUT
FLOW DISTRIBUTION FOR SECNO= 303.00 CWSEL= 1280.25

STA= 365. 465.
PER Q= 100.0
AREA= 153.1
VEL= 8.5
DEPTH= 2.2

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19AUG14 08:33:52

PAGE 44

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 304.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1297.30 ELREA= 1296.80

304.000	5.21	1285.51	1285.51	.00	1286.87	1.36	.92	.07	1297.30
1300.0	.0	1300.0	.0	.0	138.8	.0	1.7	.6	1296.80
.02	.00	9.37	.00	.000	.030	.000	.000	1280.30	314.67
.009995	80.	90.	100.	20	11	0	.00	52.29	366.96

FLOW DISTRIBUTION FOR SECNO= 304.00 CWSEL= 1285.51

STA= 315. 430.
PER Q= 100.0
AREA= 138.8
VEL= 9.4
DEPTH= 2.7

*SECNO 305.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.63

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1297.60 ELREA= 1295.80

305.000	6.41	1286.81	.00	.00	1287.13	.32	.15	.10	1297.60
1300.0	.0	1300.0	.0	.0	286.9	.0	2.0	.7	1295.80
.02	.00	4.53	.00	.000	.030	.000	.000	1280.40	239.00
.001450	40.	50.	70.	3	0	0	.00	72.15	311.15

KEYSCRSF.OUT

FLOW DISTRIBUTION FOR SECNO= 305.00 CWSEL= 1286.81

STA= 239. 363.

PER Q= 100.0

AREA= 286.9

VEL= 4.5

DEPTH= 4.0

1

19AUG14 08:33:52

PAGE 45

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 306.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .70

3370 NORMAL BRIDGE, NRD= 13 MIN ELTRD= 1295.70 MAX ELLC= 1293.30

4677 BRIDGE DECK DEFINITION ERROR AT STATIONS 300.00 301.00

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1297.00 ELREA= 1297.00

306.000	6.12	1286.52	.00	.00	1287.33	.81	.06	.15	1297.00
1300.0	.0	1300.0	.0	.0	180.0	.0	2.1	.7	1297.00
.02	.00	7.22	.00	.000	.030	.000	.000	1280.40	270.63
.002985	28.	28.	28.	2	0	0	.00	29.74	300.37

FLOW DISTRIBUTION FOR SECNO= 306.00 CWSEL= 1286.52

STA= 271. 301.

PER Q= 100.0

AREA= 180.0

VEL= 7.2

DEPTH= 6.1

*SECNO 307.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1296.50 ELREA= 1288.60

307.000	6.52	1286.92	.00	.00	1287.51	.59	.16	.02	1296.50
1300.0	.0	1300.0	.0	.0	210.6	.0	2.4	.8	1288.60
.02	.00	6.17	.00	.000	.030	.000	.000	1280.40	241.21
.003232	50.	50.	50.	3	0	0	.00	63.13	304.34

FLOW DISTRIBUTION FOR SECNO= 307.00 CWSEL= 1286.92

STA= 241. 316.
 PER Q= 100.0
 AREA= 210.6
 VEL= 6.2
 DEPTH= 3.3

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19AUG14 08:33:52

PAGE 46

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV= .100 CEHV= .300
 *SECNO 308.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1305.10 ELREA= 1299.90

308.000	5.65	1288.35	1288.35	.00	1289.88	1.53	.82	.28	1305.10
1300.0	.0	1300.0	.0	.0	131.0	.0	3.1	1.0	1299.90
.03	.00	9.93	.00	.000	.025	.000	.000	1282.70	87.89
.006816	220.	180.	140.	20	15	0	.00	44.07	131.95

FLOW DISTRIBUTION FOR SECNO= 308.00 CWSEL= 1288.35

STA= 88. 162.
 PER Q= 100.0
 AREA= 131.0
 VEL= 9.9
 DEPTH= 3.0

*SECNO 309.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.85

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1290.70 ELREA= 1290.50

309.000	5.77	1290.17	.00	.00	1290.70	.53	.72	.10	1290.70
1300.0	.0	1300.0	.0	.0	222.6	.0	3.9	1.3	1290.50
.04	.00	5.84	.00	.000	.025	.000	.000	1284.40	225.11
.002000	220.	215.	195.	2	0	0	.00	67.25	292.36

KEYSCRSF.OUT

1

19AUG14 08:33:52

PAGE 47

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 309.00 CWSEL= 1290.17

STA= 225. 294.
 PER Q= 100.0
 AREA= 222.6
 VEL= 5.8
 DEPTH= 3.3

*SECNO 310.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1295.30 ELREA= 1296.70

310.000	5.35	1292.85	1292.85	.00	1294.65	1.80	.67	.38	1295.30
1300.0	.0	1300.0	.0	.0	120.8	.0	4.7	1.5	1296.70
.04	.00	10.76	.00	.000	.025	.000	.000	1287.50	247.89
.006687	180.	200.	250.	20	11	0	.00	34.25	282.14

FLOW DISTRIBUTION FOR SECNO= 310.00 CWSEL= 1292.85

STA= 248. 300.
 PER Q= 100.0
 AREA= 120.8
 VEL= 10.8
 DEPTH= 3.5

*SECNO 311.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

KEYSCRSF.OUT

3720 CRITICAL DEPTH ASSUMED

311.000	5.65	1299.65	1299.65	.00	1299.78	.14	.35	.17	1299.60
1300.0	553.7	523.0	223.3	282.8	128.0	146.2	5.9	2.1	1298.40
.06	1.96	4.08	1.53	.045	.025	.035	.000	1294.00	200.45
.001110	150.	160.	130.	20	12	0	.00	317.94	518.39

1

19AUG14 08:33:52

PAGE 48

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 311.00 CWSEL= 1299.65

STA=	200.	248.	296.	332.	374.	408.	450.	489.	518.
PER Q=	11.4	26.7	4.4	40.2	2.8	6.2	7.4	.8	
AREA=	89.1	148.7	44.9	128.0	28.8	50.3	54.5	12.5	
VEL=	1.7	2.3	1.3	4.1	1.3	1.6	1.8	.8	
DEPTH=	1.9	3.1	1.2	3.0	.8	1.2	1.4	.4	

*SECNO 312.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

312.000	6.10	1305.00	1305.00	.00	1305.51	.51	.81	.11	1303.60
1300.0	76.4	633.5	590.0	47.3	81.3	233.0	10.6	5.5	1303.80
.08	1.61	7.80	2.53	.045	.025	.035	.000	1298.90	257.48
.003384	400.	440.	500.	20	9	0	.00	321.80	579.28

FLOW DISTRIBUTION FOR SECNO= 312.00 CWSEL= 1305.00

STA=	257.	275.	294.	305.	324.	346.	383.	444.	521.	577.	579.
PER Q=	.6	2.8	.8	1.7	48.7	7.0	10.6	21.2	6.6	.0	
AREA=	7.0	19.0	7.1	14.2	81.3	37.0	57.9	96.2	41.9	.1	
VEL=	1.0	1.9	1.4	1.6	7.8	2.5	2.4	2.9	2.0	.3	
DEPTH=	.4	1.0	.6	.7	3.7	1.0	.9	1.2	.7	.0	

*SECNO 313.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

KEYSCRSF.OUT

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1307.90 ELREA= 1307.40

313.000	8.21	1307.51	1307.51	.00	1308.68	1.17	1.48	.20	1307.90
1300.0	.0	1221.4	78.6	.0	136.9	30.7	12.7	7.0	1307.40
.10	.00	8.92	2.56	.000	.025	.035	.000	1299.30	122.58
.005016	485.	385.	285.	20	14	0	.00	84.89	214.49

1

19AUG14 08:33:52

PAGE 49

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 313.00 CWSEL= 1307.51

STA=	123.	163.	186.	209.	214.
PER Q=	94.0	1.3	4.6	.2	
AREA=	136.9	8.0	21.0	1.7	
VEL=	8.9	2.1	2.8	1.4	
DEPTH=	3.4	.3	.9	.3	

*SECNO 314.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1310.50 ELREA= 1310.60

314.000	3.85	1310.55	1310.55	.00	1311.41	.86	1.37	.03	1310.50
1300.0	41.8	1258.2	.0	18.8	166.3	.0	13.9	7.6	1310.60
.11	2.23	7.57	.00	.045	.025	.000	.000	1306.70	120.52
.004594	285.	285.	285.	20	17	0	.00	84.05	234.82

FLOW DISTRIBUTION FOR SECNO= 314.00 CWSEL= 1310.55

STA=	121.	132.	139.	235.
PER Q=	2.0	1.2	96.8	
AREA=	11.7	7.0	166.3	
VEL=	2.2	2.2	7.6	
DEPTH=	1.0	1.0	2.6	

*SECNO 315.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

KEYSCRSF.OUT

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1312.70 ELREA= 1314.30

315.000	3.07	1311.47	1311.47	.00	1312.46	.99	.81	.04	1312.70
1300.0	.0	1300.0	.0	.0	163.0	.0	14.4	7.9	1314.30
.11	.00	7.98	.00	.000	.025	.000	.000	1308.40	217.12
.007506	140.	140.	180.	2	15	0	.00	84.22	301.34

1

19AUG14 08:33:52

PAGE 50

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 315.00 CWSEL= 1311.47

STA= 217. 313.
 PER Q= 100.0
 AREA= 163.0
 VEL= 8.0
 DEPTH= 1.9

*SECNO 316.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

316.000	3.03	1320.03	1320.03	.00	1320.07	.04	.22	.09	1320.00
1300.0	939.8	358.9	1.3	578.5	221.9	6.3	16.7	9.0	1319.80
.15	1.62	1.62	.21	.045	.025	.035	.000	1317.00	99.27
.000432	200.	200.	200.	20	8	0	.00	422.02	521.29

FLOW DISTRIBUTION FOR SECNO= 316.00 CWSEL= 1320.03

STA=	99.	127.	135.	161.	187.	224.	261.	318.	466.	521.
PER Q=	2.8	2.7	18.2	25.5	16.3	4.9	2.0	27.6	.1	
AREA=	40.6	24.2	122.9	150.2	132.4	63.9	44.3	221.9	6.3	
VEL=	.9	1.4	1.9	2.2	1.6	1.0	.6	1.6	.2	
DEPTH=	1.5	3.0	4.7	5.8	3.6	1.7	.8	1.5	.1	

*SECNO 317.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

KEYSCRSF.OUT

3470 ENCROACHMENT STATIONS=	.0	803.0	TYPE=	1	TARGET=	802.999			
317.000	3.46	1324.06	1324.06	.00	1324.58	.52	.42	.14	1323.60
1300.0	670.9	379.9	249.1	188.8	41.6	72.3	21.2	12.2	1322.20
.17	3.55	9.14	3.45	.045	.025	.035	.000	1320.60	222.06
.008103	340.	380.	480.	20	11	0	.00	297.92	597.63

1

19AUG14 08:33:52

PAGE 51

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 317.00 CWSEL= 1324.06

STA=	222.	250.	340.	361.	386.	404.	450.	485.	579.	598.
PER Q=	1.0	26.3	14.7	9.5	29.2	16.1	.6	1.1	1.3	
AREA=	9.2	104.4	41.2	34.0	41.6	51.1	6.4	6.8	8.0	
VEL=	1.4	3.3	4.7	3.6	9.1	4.1	1.2	2.2	2.2	
DEPTH=	.3	1.2	2.0	1.4	2.3	1.1	.2	.1	.4	

*SECNO 318.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	1050.0	2667.0	TYPE=	1	TARGET=	-1050.000			
318.000	4.33	1333.53	1333.53	.00	1333.65	.12	4.09	.04	1332.80
1300.0	379.2	314.1	606.8	201.2	70.8	309.0	33.6	22.9	1333.40
.30	1.88	4.44	1.96	.045	.025	.035	.000	1329.20	1050.00
.001854	1180.	1180.	1260.	10	17	0	.00	465.28	1515.28

FLOW DISTRIBUTION FOR SECNO= 318.00 CWSEL= 1333.53

STA=	1050.	1073.	1131.	1183.	1213.	1240.	1303.	1344.	1411.	1492.	1515.
PER Q=	6.6	15.0	7.5	24.2	1.8	7.8	4.7	17.1	15.0	.4	
AREA=	42.5	97.4	61.3	70.8	17.0	58.5	36.0	95.8	95.5	6.2	
VEL=	2.0	2.0	1.6	4.4	1.3	1.7	1.7	2.3	2.0	.8	
DEPTH=	1.8	1.7	1.2	2.4	.6	.9	.9	1.4	1.2	.3	

*SECNO 319.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .58

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.20 ELREA= 1333.80

319.000	3.51	1334.61	.00	.00	1334.79	.19	1.12	.02	1337.20
1300.0	.0	183.9	1116.1	.0	30.1	400.3	38.0	27.1	1333.80

						KEYSCRSF.OUT				
.33	.00	6.11	2.79	.000	.025	.035	.000	1331.10	340.04	
.005451	380.	380.	380.	3	0	0	.00	501.75	841.79	

1

19AUG14 08:33:52

PAGE 52

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 319.00 CWSEL= 1334.61

STA=	340.	353.	759.	793.	800.	818.	833.	842.	
PER Q=	14.1	75.1	7.6	1.1	.8	1.0	.4		
AREA=	30.1	346.3	32.4	5.3	6.4	6.8	3.1		
VEL=	6.1	2.8	3.0	2.6	1.6	1.8	1.6		
DEPTH=	2.3	.9	1.0	.8	.4	.5	.4		

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.22	2.80	.00	8.00	.00	14.00	.00	1331.10	1331.10

*SECNO 321.000

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.48

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1497.95	1334.79	.00	1228.	81.	14.	-8010641.	-999999.00	1332.90	359.
321.000	4.09	1335.19	.00	.00	1335.25	.05	.45	.00	1333.00
1300.0	23.7	116.5	1159.8	22.8	33.0	725.7	38.2	27.3	1333.00
.33	1.04	3.53	1.60	.045	.025	.035	.000	1331.10	322.25
.000889	15.	15.	15.	2	0	11	.00	566.93	889.85

FLOW DISTRIBUTION FOR SECNO= 321.00 CWSEL= 1335.19

STA=	322.	343.	351.	359.	398.	643.	836.	868.	890.
PER Q=	1.8	9.0	3.4	6.2	41.5	36.7	1.0	.5	

KEYSCRSF.OUT

AREA=	22.8	33.0	19.3	52.4	341.4	288.2	15.8	8.7
VEL=	1.0	3.5	2.3	1.5	1.6	1.7	.8	.7
DEPTH=	1.1	4.1	2.4	1.3	1.4	1.5	.5	.4

1

19AUG14 08:33:52

PAGE 53

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

CCHV= .100 CEHV= .300

*SECNO 322.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

322.000	4.78	1336.08	1336.08	.00	1336.51	.43	.06	.11	1335.80
1300.0	6.0	866.4	427.7	6.9	137.2	210.5	38.7	27.8	1335.70
.33	.87	6.32	2.03	.045	.025	.035	.000	1331.30	217.24
.003275	40.	40.	40.	20	16	0	.00	406.16	623.41

FLOW DISTRIBUTION FOR SECNO= 322.00 CWSEL= 1336.08

STA=	217.	221.	240.	293.	371.	435.	499.	573.	607.	623.
PER Q=	.0	.4	66.6	4.2	3.5	1.8	11.1	10.8	1.4	
AREA=	.7	6.2	137.2	37.1	30.5	20.9	64.8	46.8	10.5	
VEL=	.6	.9	6.3	1.5	1.5	1.2	2.2	3.0	1.8	
DEPTH=	.2	.3	2.6	.5	.5	.3	.9	1.4	.6	

*SECNO 323.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

323.000	3.14	1337.04	1337.04	.00	1337.46	.42	.86	.00	1336.40
1300.0	6.3	492.8	800.9	5.3	65.2	276.4	40.3	29.6	1336.10
.35	1.19	7.56	2.90	.045	.025	.035	.000	1333.90	108.52
.005859	200.	200.	200.	8	17	0	.00	394.13	502.65

FLOW DISTRIBUTION FOR SECNO= 323.00 CWSEL= 1337.04

STA=	109.	125.	155.	175.	224.	270.	336.	405.	446.	473.	495.	503.
PER Q=	.5	37.9	2.4	8.4	6.3	11.3	21.6	6.3	3.7	1.7	.1	
AREA=	5.3	65.2	12.9	39.0	32.0	52.5	79.0	30.5	18.8	10.9	.9	
VEL=	1.2	7.6	2.4	2.8	2.5	2.8	3.6	2.7	2.5	2.0	.8	
DEPTH=	.3	2.2	.6	.8	.7	.8	1.1	.7	.7	.5	.1	

*SECNO 324.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1

19AUG14 08:33:52

PAGE 54

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1355.80 ELREA= 1340.60

324.000	3.76	1341.16	1341.16	.00	1341.68	.51	1.98	.03	1355.80	
1300.0	.0	814.8	485.2	.0	116.4	195.3	43.3	32.7	1340.60	
.37	.00	7.00	2.48	.000	.025	.035	.000	1337.40	56.27	
.004247	400.	400.	400.	20	11	0	.00	285.39	341.66	

FLOW DISTRIBUTION FOR SECNO= 324.00 CWSEL= 1341.16

STA=	56.	103.	160.	201.	252.	292.	342.
PER Q=	62.7	11.4	6.8	4.8	9.4	4.9	
AREA=	116.4	54.9	35.4	31.2	42.5	31.4	
VEL=	7.0	2.7	2.5	2.0	2.9	2.0	
DEPTH=	2.5	1.0	.9	.6	1.1	.6	

*SECNO 325.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1346.90 ELREA= 1344.80

325.000	5.40	1345.10	1345.10	.00	1345.69	.60	1.79	.03	1346.90	
1300.0	.0	1030.6	269.4	.0	151.9	87.2	46.0	35.0	1344.80	
.39	.00	6.79	3.09	.000	.025	.025	.000	1339.70	130.63	
.004264	420.	420.	420.	20	11	0	.00	191.01	321.64	

FLOW DISTRIBUTION FOR SECNO= 325.00 CWSEL= 1345.10

STA=	131.	195.	232.	291.	305.	322.
PER Q=	79.3	5.3	12.0	2.3	1.1	
AREA=	151.9	23.9	47.0	9.7	6.6	
VEL=	6.8	2.9	3.3	3.0	2.1	
DEPTH=	2.4	.6	.8	.7	.4	

*SECNO 325.100

1

19AUG14 08:33:52

PAGE 55

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
-------	-------	-------	-------	-------	----	----	----	-------	--------	------

Q	QLOB	QCH	QROB	ALOB	ACH	KEYSCRSF.OUT	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH		XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC		ICONT	CORAR	TOPWID	ENDST	

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.56

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1345.50 ELREA= 1345.50

325.100	5.25	1345.45	.00	.00	1345.93	.47	.22	.01	1345.50
1300.0	.0	1300.0	.0	.0	235.6	.0	46.5	35.3	1345.50
.39	.00	5.52	.00	.000	.025	.000	.000	1340.20	302.31
.001750	85.	85.	85.	0	0	0	.00	69.61	371.92

FLOW DISTRIBUTION FOR SECNO= 325.10 CWSEL= 1345.45

STA= 302. 372.
 PER Q= 100.0
 AREA= 235.6
 VEL= 5.5
 DEPTH= 3.4

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.00	1.28	2.80	.00	20.00	.00	23.30	.00	1340.20	1340.20

*SECNO 325.300

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.23

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1407.33	1345.93	.00	1046.	263.	23.	76.	1344.00	1345.70	262.
325.300	7.55	1347.95	.00	.00	1347.99	.04	2.06	.00	1340.40
1300.0	264.0	324.4	711.6	227.1	143.4	469.9	46.8	35.4	1340.40
.40	1.16	2.26	1.51	.025	.025	.025	.000	1340.40	284.90
.000098	30.	30.	30.	2	0	8	.00	274.45	559.35

1

19AUG14 08:33:52

PAGE 56

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	KEYSCRSF.OUT		OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	HV	HL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 325.30 CWSEL= 1347.95

STA=	285.	303.	370.	390.	391.	410.	500.	559.
PER Q=	.2	8.4	11.0	.7	25.0	52.6	2.1	
AREA=	6.7	123.6	89.9	6.8	143.4	418.1	51.8	
VEL=	.3	.9	1.6	1.4	2.3	1.6	.5	
DEPTH=	.4	1.8	4.5	6.8	7.5	4.6	.9	

*SECNO 327.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .18

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1346.50 ELREA= 1348.00

327.000	6.47	1347.57	.00	.00	1348.18	.61	.02	.17	1346.50
1200.0	18.3	1181.7	.0	9.5	187.2	.0	47.8	35.7	1348.00
.40	1.93	6.31	.00	.025	.025	.000	.000	1341.10	364.32
.002439	80.	80.	80.	3	0	0	.00	75.52	439.84

FLOW DISTRIBUTION FOR SECNO= 327.00 CWSEL= 1347.57

STA=	364.	382.	445.
PER Q=	1.5	98.5	
AREA=	9.5	187.2	
VEL=	1.9	6.3	
DEPTH=	.5	3.2	

*SECNO 328.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1350.10 ELREA= 1348.40

328.000	6.42	1347.52	.00	.00	1348.37	.85	.12	.07	1350.10
1200.0	.0	1200.0	.0	.0	162.1	.0	47.9	35.8	1348.40
.40	.00	7.40	.00	.000	.025	.000	.000	1341.10	367.97
.003571	40.	40.	40.	2	0	0	.00	51.58	419.55

1

19AUG14 08:33:52

PAGE 57

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV

TIME	VLOB	VCH	VROB	XNL	XNCH	KEYSCRSF.OUT XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 328.00 CWSEL= 1347.52

STA= 368. 421.
 PER Q= 100.0
 AREA= 162.1
 VEL= 7.4
 DEPTH= 3.1

CCHV= .100 CEHV= .300

*SECNO 329.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.80 ELREA= 1355.60

329.000	4.18	1353.08	1353.08	.00	1354.26	1.17	1.91	.10	1352.80
1200.0	1.6	1198.4	.0	2.0	137.8	.0	49.3	36.3	1355.60
.41	.82	8.70	.00	.040	.025	.000	.000	1348.90	410.92
.006678	400.	400.	400.	20	14	0	.00	70.59	481.51

FLOW DISTRIBUTION FOR SECNO= 329.00 CWSEL= 1353.08

STA= 411. 425. 502.
 PER Q= .1 99.9
 AREA= 2.0 137.8
 VEL= .8 8.7
 DEPTH= .1 2.4

*SECNO 330.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1359.00 ELREA= 1360.70

330.000	2.53	1358.83	1358.83	.00	1359.54	.71	3.37	.05	1359.00
1200.0	.0	1200.0	.0	.0	177.5	.0	51.0	37.4	1360.70
.43	.00	6.76	.00	.000	.025	.000	.000	1356.30	790.38
.008483	450.	450.	450.	11	14	0	.00	128.98	919.36

1

19AUG14 08:33:52

PAGE 58

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 330.00 CWSEL= 1358.83

STA= 790. 947.
 PER Q= 100.0
 AREA= 177.5
 VEL= 6.8
 DEPTH= 1.4

*SECNO 331.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

331.000	3.28	1364.38	1364.38	.00	1364.84	.47	3.24	.02	1364.30
1200.0	.0	780.3	419.7	.1	123.9	119.5	53.4	39.5	1363.80
.46	.30	6.30	3.51	.040	.025	.025	.000	1361.10	330.98
.005172	550.	500.	480.	6	12	0	.00	253.09	584.07

FLOW DISTRIBUTION FOR SECNO= 331.00 CWSEL= 1364.38

STA= 331. 334. 403. 444. 553. 584.
 PER Q= .0 65.0 11.7 22.8 .4
 AREA= .1 123.9 36.0 79.3 4.3
 VEL= .3 6.3 3.9 3.5 1.1
 DEPTH= .0 1.8 .9 .7 .1

CCHV= .100 CEHV= .300

*SECNO 332.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1375.00 ELREA= 1366.10

332.000	3.38	1366.88	1366.88	.00	1367.34	.45	1.79	.00	1375.00
1200.0	.0	750.6	449.4	.0	118.6	136.3	55.2	41.6	1366.10
.48	.00	6.33	3.30	.000	.030	.025	.000	1363.50	119.70
.005692	330.	330.	330.	2	8	0	.00	300.23	419.93

FLOW DISTRIBUTION FOR SECNO= 332.00 CWSEL= 1366.88

1

19AUG14 08:33:52

PAGE 59

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 120. 173. 249. 317. 420.
 PER Q= 62.6 19.0 13.5 5.0

AREA= 118.6 59.7 46.6 30.1
 VEL= 6.3 3.8 3.5 2.0
 DEPTH= 2.2 .8 .7 .3

*SECNO 333.000

3470 ENCROACHMENT STATIONS= .0 594.0 TYPE= 1 TARGET= 593.999
 333.000 2.47 1369.67 .00 .00 1369.85 .19 2.49 .03 1369.40
 1200.0 868.4 327.3 4.3 256.9 88.5 4.4 58.9 45.5 1369.40
 .52 3.38 3.70 .99 .035 .030 .025 .000 1367.20 177.90
 .004014 550. 515. 500. 3 0 0 .00 357.48 535.38

FLOW DISTRIBUTION FOR SECNO= 333.00 CWSEL= 1369.67

STA= 178. 192. 225. 295. 328. 434. 503. 535.
 PER Q= 1.9 21.0 40.6 5.3 3.6 27.3 .4
 AREA= 10.4 61.7 123.9 27.1 33.9 88.5 4.4
 VEL= 2.2 4.1 3.9 2.4 1.3 3.7 1.0
 DEPTH= .7 1.9 1.8 .8 .3 1.3 .1

*SECNO 334.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 1550.0 TYPE= 1 TARGET= 1549.999

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1378.80 ELREA= 1377.80

334.000 5.05 1377.45 1377.45 .00 1379.30 1.84 5.51 .50 1378.80
 1200.0 .0 1200.0 .0 .0 110.1 .0 63.7 49.6 1377.80
 .54 .00 10.90 .00 .000 .030 .000 .000 1372.40 913.43
 .010465 900. 900. 900. 20 17 0 .00 30.54 943.97

1

19AUG14 08:33:52

PAGE 60

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

FLOW DISTRIBUTION FOR SECNO= 334.00 CWSEL= 1377.45

STA= 913. 945.
 PER Q= 100.0
 AREA= 110.1

VEL= 10.9
DEPTH= 3.6

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.34	2.80	.00	8.50	.50	41.60	.50	1372.40	1373.70

*SECNO 336.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.65

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1394.77	1380.31	.83	638.	573.	42.	85.	1379.70	1381.20	666.

3470 ENCROACHMENT STATIONS= .0 1600.0 TYPE= 1 TARGET= 1599.999

LATEST BRIDGE MODELING WITH ROB STATIONS ON EAST SIDE OF STABLE ROAD.

336.000	7.61	1381.31	.00	.00	1381.41	.09	2.11	.00	1379.50
1200.0	272.5	703.0	224.5	243.8	229.5	261.4	64.1	50.0	1381.20
.55	1.12	3.06	.86	.035	.030	.025	.000	1373.70	707.27
.000484	50.	50.	50.	2	0	7	.00	807.05	1514.33

FLOW DISTRIBUTION FOR SECNO= 336.00 CWSEL= 1381.31

STA=	707.	733.	788.	874.	911.	957.	1025.	1172.	1307.	1500.	1514.
PER Q=	.2	5.1	11.9	5.4	58.6	.4	3.0	8.4	6.9	.0	
AREA=	6.6	61.3	121.7	54.2	229.5	11.2	53.6	96.5	99.3	.8	
VEL=	.4	1.0	1.2	1.2	3.1	.4	.7	1.0	.8	.2	
DEPTH=	.3	1.1	1.4	1.5	5.0	.2	.4	.7	.5	.1	

1

19AUG14 08:33:52

PAGE 61

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300

*SECNO 337.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

ROB STATIONS TIE INTO HILL TOP. DOES NOT CROSS STABLE ROAD

337.000	3.54	1383.34	1383.34	.00	1383.76	.42	.24	.10	1382.10
600.0	160.7	294.1	145.2	74.2	42.3	48.6	67.0	52.8	1382.30
.56	2.17	6.96	2.98	.040	.025	.025	.000	1379.80	1317.37
.004597	350.	320.	170.	20	12	0	.00	221.25	1538.62

FLOW DISTRIBUTION FOR SECNO= 337.00 CWSEL= 1383.34

STA=	1317.	1345.	1381.	1428.	1446.	1491.	1539.
PER Q=	.9	6.3	19.5	49.0	20.5	3.6	
AREA=	6.1	21.4	46.7	42.3	35.7	12.9	
VEL=	.9	1.8	2.5	7.0	3.5	1.7	
DEPTH=	.2	.6	1.0	2.3	.8	.3	

*SECNO 338.000

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1393.00 ELREA= 1392.20

338.000	1.33	1392.33	1392.33	.00	1392.59	.26	4.99	.02	1393.00
600.0	.0	491.4	108.6	.0	110.9	46.8	70.2	58.0	1392.20
.62	.00	4.43	2.32	.000	.025	.025	.000	1391.00	1954.26
.007570	860.	860.	860.	2	22	0	.00	308.15	2262.40

FLOW DISTRIBUTION FOR SECNO= 338.00 CWSEL= 1392.33

STA=	1954.	2094.	2151.	2217.	2262.
PER Q=	81.9	2.7	11.2	4.2	
AREA=	110.9	10.0	24.8	11.9	
VEL=	4.4	1.6	2.7	2.1	
DEPTH=	.8	.2	.4	.3	

1

19AUG14 08:33:52

PAGE 62

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

*SECNO 339.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 2106.0 TYPE= 1 TARGET= 2105.999

KEYSCRSF.OUT

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1402.30 ELREA= 1404.60

339.000	2.93	1402.33	1402.33	.00	1402.35	.02	1.40	.02	1402.30
600.0	552.6	47.4	.0	515.3	23.3	.0	76.6	65.4	1404.60
.82	1.07	2.03	.00	.040	.025	.000	.000	1399.40	1596.25
.000758	800.	800.	800.	20	40	0	.00	495.63	2091.88

FLOW DISTRIBUTION FOR SECNO= 339.00 CWSEL= 1402.33

STA= 1596. 1700. 2076. 2098.
 PER Q= 19.6 72.5 7.9
 AREA= 110.3 404.9 23.3
 VEL= 1.1 1.1 2.0
 DEPTH= 1.1 1.1 1.5

CCHV= .100 CEHV= .300

*SECNO 340.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 1965.0 TYPE= 1 TARGET= 1964.999

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1406.40 ELREA= 1408.50

340.000	5.50	1406.40	1406.40	.00	1406.42	.01	.12	.00	1406.40
470.0	383.4	86.6	.0	506.4	58.7	.0	82.3	70.3	1408.50
.96	.76	1.48	.00	.025	.020	.000	.000	1400.90	1459.91
.000120	450.	450.	450.	20	27	0	.00	460.41	1920.31

FLOW DISTRIBUTION FOR SECNO= 340.00 CWSEL= 1406.40

1

19AUG14 08:33:52

PAGE 63

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 1460. 1524. 1576. 1646. 1712. 1816. 1873. 1899. 1925.
 PER Q= 3.3 9.2 10.6 13.3 31.7 12.3 1.2 18.4
 AREA= 35.5 60.0 73.8 82.8 166.9 74.3 13.1 58.7
 VEL= .4 .7 .7 .8 .9 .8 .4 1.5
 DEPTH= .6 1.2 1.1 1.3 1.6 1.3 .5 2.8

*SECNO 340.100

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 1554.0 2419.0 TYPE= 1 TARGET= 865.000
 ELENCL= 1415.10 ELENCR= 1415.10

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1414.80 ELREA= 1418.20

340.100	5.71	1413.21	1413.21	.00	1414.65	1.44	.26	.43	1414.80
470.0	.0	470.0	.0	.0	48.8	.0	87.3	74.2	1418.20
.98	.00	9.63	.00	.000	.020	.000	.000	1407.50	2359.82
.005433	710.	710.	710.	20	8	0	.00	17.44	2377.26

FLOW DISTRIBUTION FOR SECNO= 340.10 CWSEL= 1413.21

STA= 2360. 2392.
 PER Q= 100.0
 AREA= 48.8
 VEL= 9.6
 DEPTH= 2.8

*SECNO 341.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1

19AUG14 08:33:52

PAGE 64

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3470 ENCROACHMENT STATIONS= .0 1753.0 TYPE= 1 TARGET= 1752.999

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1420.70 ELREA= 1422.80

341.000	5.95	1420.85	1420.85	.00	1420.94	.09	.76	.13	1420.70
470.0	232.9	237.1	.0	181.4	73.2	.0	89.5	76.4	1422.80
1.06	1.28	3.24	.00	.025	.020	.000	.000	1414.90	1412.61
.000514	630.	630.	630.	20	11	0	.00	285.84	1698.45

FLOW DISTRIBUTION FOR SECNO= 341.00 CWSEL= 1420.85

STA= 1413. 1487. 1555. 1643. 1674. 1714.

PER Q= 1.4 5.1 34.2 8.9 50.4
 AREA= 14.4 30.5 105.5 31.0 73.2
 VEL= .5 .8 1.5 1.3 3.2
 DEPTH= .2 .4 1.2 1.0 3.0

CCHV= .100 CEHV= .300

*SECNO 342.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 1792.0 TYPE= 1 TARGET= 1791.999

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1422.70 ELREA= 1426.60

342.000	4.21	1423.21	1423.21	.00	1423.38	.16	.37	.02	1422.70
400.0	262.6	137.4	.0	115.5	30.1	.0	91.0	78.4	1426.60
1.09	2.27	4.56	.00	.035	.035	.000	.000	1419.00	1529.77
.005796	330.	330.	330.	20	15	0	.00	219.97	1749.74

FLOW DISTRIBUTION FOR SECNO= 342.00 CWSEL= 1423.21

STA= 1530. 1537. 1620. 1736. 1763.
 PER Q= .0 18.5 47.1 34.4
 AREA= .4 38.3 76.8 30.1
 VEL= .5 1.9 2.5 4.6
 DEPTH= .1 .5 .7 2.2

1

19AUG14 08:33:52

PAGE 65

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK	ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	3.00	.00	3.20	.00	25.00	.01	1419.40	1419.00

*SECNO 344.000

PRESS FLOW BECAUSE EGLWC OF 1429.67 EXCEEDS 1.5 DEPTH

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID	ELLC	ELTRD	WEIRLN
-------	-------	----	-------	-----	-------	-----------	------	-------	--------

KEYSCRSF.OUT
 AREA
 1429.17 1429.67 .00 183. 219. 25. 20. 1425.40 1424.20 194.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3710 WSEL ASSUMED BASED ON MIN DIFF

NEW GROUND ELEVATIONS INCLUDE VALLEY CENTER ESTATES NEW ROUNDTREE ROAD
 AND THE NEW 72INCH CMP FOR SOUTH FORK. GROUNDING PLAN ELEVATIONS USED.
 344.000 5.24 1425.04 .00 .00 1425.30 .25 .00 .00 1422.40
 400.0 231.6 167.0 1.4 115.9 28.7 .9 91.2 78.7 1422.40
 1.09 2.00 5.81 1.51 .035 .035 .030 .000 1419.80 1463.43
 .004109 66. 66. 66. 20 0 6 .00 221.13 1734.68

FLOW DISTRIBUTION FOR SECNO= 344.00 CWSEL= 1425.04

STA= 1463. 1492. 1517. 1627. 1642. 1657. 1672. 1677. 1728. 1734. 1735.
 PER Q= .7 2.2 35.8 9.3 6.9 2.6 .1 .3 41.8 .3
 AREA= 3.6 7.3 70.7 14.1 11.9 6.6 .6 .9 28.7 .9
 VEL= .7 1.2 2.0 2.6 2.3 1.6 .7 1.3 5.8 1.5
 DEPTH= .1 .3 .6 .9 .8 .4 .1 .0 4.8 1.3

*SECNO 344.100

NEW SECTION TO DEFINE NEW CULVERT AND REGRADED CREEKBED. GRADING PLAN EL
 344.100 4.14 1425.34 .00 .00 1425.51 .17 .21 .01 1425.00
 400.0 78.2 321.7 .1 64.6 87.2 .1 91.4 79.0 1425.00
 1.09 1.21 3.69 .84 .035 .035 .030 .000 1421.20 1498.06
 .003504 55. 55. 55. 2 0 0 .00 245.63 1743.69

1

19AUG14 08:33:52

PAGE 66

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 344.10 CWSEL= 1425.34

STA= 1498. 1517. 1695. 1743. 1744.
 PER Q= .6 18.9 80.4 .0
 AREA= 3.3 61.3 87.2 .1
 VEL= .8 1.2 3.7 .8
 DEPTH= .2 .3 1.8 .2

*SECNO 344.500

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1429.20 ELREA= 1429.20

NEW SECTION TO DEFINE VALLEY CENTER ESTATES GRADING PLAN.NOT DIGITIZED

344.500	1.94	1429.14	1429.14	.00	1429.89	.75	2.94	.17	1429.20
400.0	.0	400.0	.0	.0	57.5	.0	92.5	80.4	1429.20
1.11	.00	6.95	.00	.000	.035	.000	.000	1427.20	30.22
.016412	440.	450.	510.	20	14	0	.00	39.38	69.59

FLOW DISTRIBUTION FOR SECNO= 344.50 CWSEL= 1429.14

STA= 30. 70.
 PER Q= 100.0
 AREA= 57.5
 VEL= 7.0
 DEPTH= 1.5

*SECNO 344.800

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1432.30 ELREA= 1432.30

DOWNSTREAM QUEENSBRIDGE ROAD BRIDGE-NEW FOR VALEY CENTER ESTATES SUBDIV
 1

19AUG14 08:33:52

PAGE 67

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
344.800	2.59	1430.89	.00	.00	1431.40	.51	1.49	.02	1433.50
400.0	.0	400.0	.0	.0	69.8	.0	92.7	80.5	1434.00
1.12	.00	5.73	.00	.000	.035	.000	.000	1428.30	525.03
.007260	148.	142.	98.	2	0	0	.00	34.04	559.07

FLOW DISTRIBUTION FOR SECNO= 344.80 CWSEL= 1430.89

STA= 525. 570.
 PER Q= 100.0
 AREA= 69.8
 VEL= 5.7
 DEPTH= 2.1

SPECIAL BRIDGE

KEYSCRSF.OUT
5227 DOWNSTREAM ELEV IS 1430.31 , NOT 1430.89 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.50	2.90	.00	20.50	.50	72.00	.01	1428.50	1428.30

*SECNO 344.900
CLASS B LOW FLOW

3420 BRIDGE W.S.= 1430.71 BRIDGE VELOCITY= 8.63 CALCULATED CHANNEL AREA= 44.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1431.58	.00	0.	400.	72.	80.	1432.50	1434.60	0.

UPSTREAM QUEENSBIDGE ROAD BRIDGE GRADING PLAN ELEV USED PREDOMINATELY.

344.900	2.72	1431.22	.00	.00	1431.58	.36	.18	.00	1434.50
400.0	.0	400.0	.0	.0	83.4	.0	92.8	80.6	1434.50
1.12	.00	4.79	.00	.000	.035	.000	.000	1428.50	470.77
.005017	43.	43.	43.	0	0	0	.00	40.73	511.50

FLOW DISTRIBUTION FOR SECNO= 344.90 CWSEL= 1431.22

STA= 471. 525.
PER Q= 100.0
AREA= 83.4
VEL= 4.8
DEPTH= 2.0

1

19AUG14 08:33:52

PAGE 68

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 345.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

NEW NON DIGITIZED ELEV TO INCLUDE VALLEY CENTER ESTATES GRADING PLAN.

345.000	2.83	1438.43	1438.43	.00	1438.70	.26	1.06	.01	1438.30
340.0	.7	293.3	46.1	1.4	66.4	37.9	93.3	81.3	1438.00
1.14	.48	4.41	1.22	.035	.035	.030	.000	1435.60	1643.60
.004703	217.	217.	217.	20	8	0	.00	261.18	1904.78

FLOW DISTRIBUTION FOR SECNO= 345.00 CWSEL= 1438.43

STA= 1644. 1665. 1700. 1734. 1865. 1905.

KEYSCRSF.OUT

PER Q= .2 86.3 5.4 7.7 .4
 AREA= 1.4 66.4 11.3 23.9 2.6
 VEL= .5 4.4 1.6 1.1 .6
 DEPTH= .1 1.9 .3 .2 .1

CCHV= .100 CEHV= .300

*SECNO 346.000

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1450.00 ELREA= 1450.00

NO CHANGE ORIGNAL DIGITIZED DATA USED. JUST UPSTREAM VALLEY CENTER ESTS									
346.000	1.87	1445.87	1445.87	.00	1446.43	.55	4.42	.09	1450.00
340.0	.0	340.0	.0	.0	56.9	.0	94.4	83.6	1450.00
1.17	.00	5.98	.00	.000	.030	.000	.000	1444.00	1356.21
.012989	550.	600.	650.	20	14	0	.00	51.95	1408.15

FLOW DISTRIBUTION FOR SECNO= 346.00 CWSEL= 1445.87

STA= 1356. 1435.

PER Q= 100.0

AREA= 56.9

VEL= 6.0

DEPTH= 1.1

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PROFILE FOR STREAM WITH REVISED CHANNEL BA

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1257.	1307.	1357.	1407.	1457.	1507.	1557.	1607.	1657.	1707.
SECNO	CUMDIS									
300.00	0. IE L M .	.	.	.	.	.	.	.	.	.
	50. IWRL M .	.	.	.	.	.	.	.	.	.
	100. .IE L M .	.	.	.	.	.	.	.	.	.
	150. .IWRL M .	.	.	.	.	.	.	.	.	.
	200. .I ERL M .	.	.	.	.	.	.	.	.	.
301.00	250. .I E RL M .	.	.	.	.	.	.	.	.	.
302.00	300. . IEL M .	.	.	.	.	.	.	.	.	.
	350. . IEL M .	.	.	.	.	.	.	.	.	.
	400. . IWEL M.	.	.	.	.	.	.	.	.	.
	450. . IEL M.	.	.	.	.	.	.	.	.	.
303.00	500. . IE L M	.	.	.	.	.	.	.	.	.
	550. . IWEL M	.	.	.	.	.	.	.	.	.
304.00	600. . IE L .M	.	.	.	.	.	.	.	.	.
305.00	650. C IE L .M	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

306.00	700.	C	IE L . M	.	.	.	.	.	.	.	.	.
307.00	750.	C	IE L . M	.	.	.	.	.	.	.	.	.
	800.	C	IERL . M	.	.	.	.	.	.	.	.	.
	850.	C	IE RL. M	.	.	.	.	.	.	.	.	.
308.00	900.	.	IWE RL M	.	.	.	.	.	.	.	.	.
	950.	C	IWERL. M	.	.	.	.	.	.	.	.	.
	1000.	C	IWEL . M	.	.	.	.	.	.	.	.	.
	1050.	C	I EL . M	.	.	.	.	.	.	.	.	.
309.00	1100.	C	IE . M	.	.	.	.	.	.	.	.	.
	1150.	C	IE . M	.	.	.	.	.	.	.	.	.
	1200.	C	IE . M	.	.	.	.	.	.	.	.	.
	1250.	C	IER . M	.	.	.	.	.	.	.	.	.
310.00	1300.	.	IWE . M	.	.	.	.	.	.	.	.	.
	1350.	.	IE . M	.	.	.	.	.	.	.	.	.
	1400.	.	IE . M	.	.	.	.	.	.	.	.	.
	1450.	.	IWE. M	.	.	.	.	.	.	.	.	.
311.00	1500.	.	IRE. M	.	.	.	.	.	.	.	.	.
	1550.	.	IE. M	.	.	.	.	.	.	.	.	.
	1600.	.	IE. M	.	.	.	.	.	.	.	.	.
	1650.	.	IE. M	.	.	.	.	.	.	.	.	.
	1700.	.	IE. M	.	.	.	.	.	.	.	.	.
	1750.	.	IE. M	.	.	.	.	.	.	.	.	.
	1800.	.	IE. M	.	.	.	.	.	.	.	.	.
	1850.	.	IWE M	.	.	.	.	.	.	.	.	.
312.00	1900.	.	ILE M	.	.	.	.	.	.	.	.	.
	1950.	.	ILE M	.	.	.	.	.	.	.	.	.
	2000.	.	I E M	.	.	.	.	.	.	.	.	.
	2050.	.	I E M	.	.	.	.	.	.	.	.	.
	2100.	.	I E M	.	.	.	.	.	.	.	.	.
	2150.	.	I E M	.	.	.	.	.	.	.	.	.
	2200.	.	I E M	.	.	.	.	.	.	.	.	.
	2250.	.	I E M	.	.	.	.	.	.	.	.	.
313.00	2300.	.	IE M	.	.	.	.	.	.	.	.	.
	2350.	.	IE M	.	.	.	.	.	.	.	.	.
	2400.	.	IWE M	.	.	.	.	.	.	.	.	.
	2450.	.	IWE M	.	.	.	.	.	.	.	.	.
	2500.	.	IE M	.	.	.	.	.	.	.	.	.
	2550.	.	IE M	.	.	.	.	.	.	.	.	.
314.00	2600.	.	IE M	.	.	.	.	.	.	.	.	.
	2650.	.	IE M	.	.	.	.	.	.	.	.	.
	2700.	.	IE M	.	.	.	.	.	.	.	.	.
315.00	2750.	.	IER M	.	.	.	.	.	.	.	.	.
	2800.	.	.WE M	.	.	.	.	.	.	.	.	.
	2850.	.	.IE M	.	.	.	.	.	.	.	.	.
	2900.	.	. E M	.	.	.	.	.	.	.	.	.
316.00	2950.	.	. IE M	.	.	.	.	.	.	.	.	.
	3000.	.	. IE M	.	.	.	.	.	.	.	.	.
	3050.	.	. IE M	.	.	.	.	.	.	.	.	.
	3100.	.	. IE M	.	.	.	.	.	.	.	.	.
	3150.	.	. IE M	.	.	.	.	.	.	.	.	.
	3200.	.	. E M	.	.	.	.	.	.	.	.	.
	3250.	.	. E M	.	.	.	.	.	.	.	.	.
317.00	3300.	.	. WE M	.	.	.	.	.	.	.	.	.
	3350.	.	. IE M	.	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

3400.	.	IE	M	.	.	.	.	.	.	.	.	.
3450.	.	IE	M.	.	.	.	.	.	.	.	.	.
3500.	.	IE	M.	.	.	.	.	.	.	.	.	.
3550.	.	IE	M.	.	.	.	.	.	.	.	.	.
3600.	.	IE	M.	.	.	.	.	.	.	.	.	.
3650.	.	IE	M.	.	.	.	.	.	.	.	.	.
3700.	.	IE	M.	.	.	.	.	.	.	.	.	.
3750.	.	IE	M.	.	.	.	.	.	.	.	.	.
3800.	.	IE	M	.	.	.	.	.	.	.	.	.
3850.	.	E	M	.	.	.	.	.	.	.	.	.
3900.	.	E	M	.	.	.	.	.	.	.	.	.
3950.	.	WE	M	.	.	.	.	.	.	.	.	.
4000.	.	IE	M	.	.	.	.	.	.	.	.	.
4050.	.	IE	M	.	.	.	.	.	.	.	.	.
4100.	.	IE	.M	.	.	.	.	.	.	.	.	.
4150.	.	IE	.M	.	.	.	.	.	.	.	.	.
4200.	.	IE	.M	.	.	.	.	.	.	.	.	.
4250.	.	IE	.M	.	.	.	.	.	.	.	.	.
4300.	.	IE	.M	.	.	.	.	.	.	.	.	.
4350.	.	IE	.M	.	.	.	.	.	.	.	.	.
4400.	.	IE	.M	.	.	.	.	.	.	.	.	.
4450.	.	IE	. M	.	.	.	.	.	.	.	.	.
318.00	4500.	IE	. M	.	.	.	.	.	.	.	.	.
4550.	C	E	.M	.	.	.	.	.	.	.	.	.
4600.	C	E	.M	.	.	.	.	.	.	.	.	.
4650.	C	EL	M	.	.	.	.	.	.	.	.	.
4700.	C	EL	M	.	.	.	.	.	.	.	.	.
4750.	C	WE	M.	.	.	.	.	.	.	.	.	.
4800.	C	IE	M.	.	.	.	.	.	.	.	.	.
319.00	4850.	C	IE M	.	.	.	.	.	.	.	.	.
321.00	4900.	C	IE	M	.	.	.	.	.	.	.	.
322.00	4950.	.	IE	.M	.	.	.	.	.	.	.	.
5000.	.	IE	.M	.	.	.	.	.	.	.	.	.
5050.	.	IE	.M	.	.	.	.	.	.	.	.	.
323.00	5100.	.	IE	. M	.	.	.	.	.	.	.	.
5150.	.	E	. M	.	.	.	.	.	.	.	.	.
5200.	.	EL	. M	.	.	.	.	.	.	.	.	.
5250.	.	EL	. M	.	.	.	.	.	.	.	.	.
5300.	.	WEL	. M	.	.	.	.	.	.	.	.	.
5350.	.	IEL	. M	.	.	.	.	.	.	.	.	.
5400.	.	IE L.	M	.	.	.	.	.	.	.	.	.
5450.	.	IE L.	M	.	.	.	.	.	.	.	.	.
324.00	5500.	.	IE L	M	.	.	.	.	.	.	.	.
5550.	.	IE L	M	.	.	.	.	.	.	.	.	.
5600.	.	IE L.	M	.	.	.	.	.	.	.	.	.
5650.	.	IE L.	M	.	.	.	.	.	.	.	.	.
5700.	.	IE L.	M	.	.	.	.	.	.	.	.	.
5750.	.	IE L.	M	.	.	.	.	.	.	.	.	.
5800.	.	IWEL.	M	.	.	.	.	.	.	.	.	.
5850.	.	IE	. M	.	.	.	.	.	.	.	.	.
5900.	.	IE	. M	.	.	.	.	.	.	.	.	.
325.00	5950.	.	IE	. M	.	.	.	.	.	.	.	.
6000.	C	IE	. M	.	.	.	.	.	.	.	.	.
325.10	6050.	C	IE	. M	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

325.30	6100.	C	.	IE	.	M	.	.	.	.	.	.	.	.
327.00	6150.	C	.	IE	.	M	.	.	.	.	.	.	.	.
328.00	6200.	C	.	IEL	.	M	.	.	.	.	.	.	.	.
	6250.	C	.	IEL	.	M	.	.	.	.	.	.	.	.
	6300.	C	.	IWE	.	M	.	.	.	.	.	.	.	.
	6350.	C	.	I E	.	M	.	.	.	.	.	.	.	.
	6400.	C	.	IE	.	M	.	.	.	.	.	.	.	.
	6450.	C	.	IE	.	M	.	.	.	.	.	.	.	.
	6500.	C	.	IE	.	M	.	.	.	.	.	.	.	.
	6550.	C	.	IER	.	M	.	.	.	.	.	.	.	.
329.00	6600.	.	.	IER	.	M	.	.	.	.	.	.	.	.
	6650.	.	.	WE	.	M	.	.	.	.	.	.	.	.
	6700.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	6750.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	6800.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	6850.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	6900.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	6950.	.	.	ER	.	M	.	.	.	.	.	.	.	.
	7000.	.	.	ER	.	M	.	.	.	.	.	.	.	.
330.00	7050.	.	.	WE	.	M	.	.	.	.	.	.	.	.
	7100.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	7150.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	7200.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	7250.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	7300.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	7350.	.	.	IE	.	M	.	.	.	.	.	.	.	.
	7400.	.	.	.E	.	M	.	.	.	.	.	.	.	.
	7450.	.	.	.E	.	M	.	.	.	.	.	.	.	.
	7500.	.	.	.WE	.		.	.	.	.	.	.	.	.
331.00	7550.	.	.	.IE	.		.	.	.	.	.	.	.	.
	7600.	.	.	.IE	.		.	.	.	.	.	.	.	.
	7650.	.	.	.IE	.		.	.	.	.	.	.	.	.
	7700.	.	.	.IE	.		.	.	.	.	.	.	.	.
	7750.	.	.	.IEL	.		.	.	.	.	.	.	.	.
	7800.	.	.	.IEL	.		.	.	.	.	.	.	.	.
332.00	7850.	.	.	.IEM	.		.	.	.	.	.	.	.	.
	7900.	C	.	.IEM	.		.	.	.	.	.	.	.	.
	7950.	C	.	.IEL	.		.	.	.	.	.	.	.	.
	8000.	C	.	.EL	.		.	.	.	.	.	.	.	.
	8050.	C	.	.EL	.		.	.	.	.	.	.	.	.
	8100.	C	.	.EL	.		.	.	.	.	.	.	.	.
	8150.	C	.	.EL	.		.	.	.	.	.	.	.	.
	8200.	C	.	.EL	.		.	.	.	.	.	.	.	.
	8250.	C	.	.EL	.		.	.	.	.	.	.	.	.
	8300.	C	.	.IE	.		.	.	.	.	.	.	.	.
333.00	8350.	C	.	.IE	.		.	.	.	.	.	.	.	.
	8400.	C	.	.IE	.		.	.	.	.	.	.	.	.
	8450.	C	.	.IEM	.		.	.	.	.	.	.	.	.
	8500.	C	.	.IEM	.		.	.	.	.	.	.	.	.
	8550.	C	.	.IEM	.		.	.	.	.	.	.	.	.
	8600.	C	.	.IEM	.		.	.	.	.	.	.	.	.
	8650.	C	.	.IEM	.		.	.	.	.	.	.	.	.
	8700.	C	.	.IEM	.		.	.	.	.	.	.	.	.
	8750.	C	.	. E	.	M	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

	8800.	C	.	.	WEM	.	.	.	.	.	.	.	.
	8850.	C	.	.	WEM	.	.	.	.	.	.	.	.
	8900.	C	.	.	IEM	.	.	.	.	.	.	.	.
	8950.	C	.	.	IEM	.	.	.	.	.	.	.	.
	9000.	C	.	.	IEM	.	.	.	.	.	.	.	.
	9050.	C	.	.	IE M	.	.	.	.	.	.	.	.
	9100.	C	.	.	IE M	.	.	.	.	.	.	.	.
	9150.	C	.	.	IE M	.	.	.	.	.	.	.	.
	9200.	.	C.	.	IE M	.	.	.	.	.	.	.	.
334.00	9250.	.	.	.	IWEM	.	.	.	.	.	.	.	.
336.00	9300.	C	.	.	I EM	.	.	.	.	.	.	.	.
	9350.	C	.	.	IEM	.	.	.	.	.	.	.	.
	9400.	C	.	.	IEM	.	.	.	.	.	.	.	.
	9450.	C	.	.	IEM	.	.	.	.	.	.	.	.
	9500.	C	.	.	IEM	.	.	.	.	.	.	.	.
	9550.	C	.	.	IEM	.	.	.	.	.	.	.	.
	9600.	.	C	.	EM	.	.	.	.	.	.	.	.
337.00	9650.	.	.	.	EM	.	.	.	.	.	.	.	.
	9700.	.	.	.	EM	.	.	.	.	.	.	.	.
	9750.	.	.	.	IE	.	.	.	.	.	.	.	.
	9800.	.	.	.	IE	.	.	.	.	.	.	.	.
	9850.	.	.	.	IEM	.	.	.	.	.	.	.	.
	9900.	.	.	.	IEM	.	.	.	.	.	.	.	.
	9950.	.	.	.	IEM	.	.	.	.	.	.	.	.
	10000.	.	.	.	EM	.	.	.	.	.	.	.	.
	10050.	.	.	.	EM	.	.	.	.	.	.	.	.
	10100.	.	.	.	EM	.	.	.	.	.	.	.	.
	10150.	.	.	.	E M	.	.	.	.	.	.	.	.
	10200.	.	.	.	WEM	.	.	.	.	.	.	.	.
	10250.	.	.	.	IEM	.	.	.	.	.	.	.	.
	10300.	.	.	.	IEM	.	.	.	.	.	.	.	.
	10350.	.	.	.	IEM	.	.	.	.	.	.	.	.
	10400.	.	.	.	EM	.	.	.	.	.	.	.	.
	10450.	.	.	.	EM	.	.	.	.	.	.	.	.
338.00	10500.	.	.	.	E M.	.	.	.	.	.	.	.	.
	10550.	.	.	.	E M.	.	.	.	.	.	.	.	.
	10600.	.	.	.	E M.	.	.	.	.	.	.	.	.
	10650.	.	.	.	WEM.	.	.	.	.	.	.	.	.
	10700.	.	.	.	IE M	.	.	.	.	.	.	.	.
	10750.	.	.	.	IE M	.	.	.	.	.	.	.	.
	10800.	.	.	.	IE M	.	.	.	.	.	.	.	.
	10850.	.	.	.	E M	.	.	.	.	.	.	.	.
	10900.	.	.	.	E .M	.	.	.	.	.	.	.	.
	10950.	.	.	.	E .M	.	.	.	.	.	.	.	.
	11000.	.	.	.	ER.M	.	.	.	.	.	.	.	.
	11050.	.	.	.	EL.M	.	.	.	.	.	.	.	.
	11100.	.	.	.	IE. M	.	.	.	.	.	.	.	.
	11150.	.	.	.	IE. M	.	.	.	.	.	.	.	.
	11200.	.	.	.	IE. M	.	.	.	.	.	.	.	.
	11250.	.	.	.	IE. M	.	.	.	.	.	.	.	.
339.00	11300.	.	.	.	ER M	.	.	.	.	.	.	.	.
	11350.	.	.	.	ER M	.	.	.	.	.	.	.	.
	11400.	.	.	.	ER M	.	.	.	.	.	.	.	.
	11450.	.	.	.	ER M	.	.	.	.	.	.	.	.

KEYSCRSF.OUT

	11500.	.	.	ER	M	.	.	.	.	.	.	.	.
	11550.	.	.	IE	M	.	.	.	.	.	.	.	.
	11600.	.	.	IE	M	.	.	.	.	.	.	.	.
	11650.	.	.	IE	M	.	.	.	.	.	.	.	.
	11700.	.	.	IE	M	.	.	.	.	.	.	.	.
340.00	11750.	.	.	IE	M	.	.	.	.	.	.	.	.
	11800.	.	.	IE	M	.	.	.	.	.	.	.	.
	11850.	.	.	IER	M	.	.	.	.	.	.	.	.
	11900.	.	.	IER	M	.	.	.	.	.	.	.	.
	11950.	.	.	IER	M	.	.	.	.	.	.	.	.
	12000.	.	.	IWE	M	.	.	.	.	.	.	.	.
	12050.	.	.	IWE	M	.	.	.	.	.	.	.	.
	12100.	.	.	I.E	M	.	.	.	.	.	.	.	.
	12150.	.	.	IE	M	.	.	.	.	.	.	.	.
	12200.	.	.	IER	M	.	.	.	.	.	.	.	.
	12250.	.	.	IER	M	.	.	.	.	.	.	.	.
	12300.	.	.	IER	M	.	.	.	.	.	.	.	.
	12350.	.	.	IER	M	.	.	.	.	.	.	.	.
	12400.	.	.	IER	M	.	.	.	.	.	.	.	.
340.10	12450.	.	.	IWE	M	.	.	.	.	.	.	.	.
	12500.	.	.	IWE	M	.	.	.	.	.	.	.	.
	12550.	.	.	I E	M	.	.	.	.	.	.	.	.
	12600.	.	.	I E	M	.	.	.	.	.	.	.	.
	12650.	.	.	.IER	M	.	.	.	.	.	.	.	.
	12700.	.	.	.IER	M	.	.	.	.	.	.	.	.
	12750.	.	.	.IER	M	.	.	.	.	.	.	.	.
	12800.	.	.	.IER	M	.	.	.	.	.	.	.	.
	12850.	.	.	.IER	M	.	.	.	.	.	.	.	.
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342.00	13400.	.	.	. IER	M	.	.	.	.	.	.	.	.
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344.00	13500.	C	.	. IE		.	.	.	.	.	.	.	.
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	13600.	C	.	. IE		.	.	.	.	.	.	.	.
	13650.	C	.	. IE		.	.	.	.	.	.	.	.
	13700.	C	.	. IEM		.	.	.	.	.	.	.	.
	13750.	C	.	. IEM		.	.	.	.	.	.	.	.
	13800.	C	.	. EM		.	.	.	.	.	.	.	.
	13850.	C	.	. EM		.	.	.	.	.	.	.	.
	13900.	C	.	. EM		.	.	.	.	.	.	.	.
	13950.	. C	.	. WE		.	.	.	.	.	.	.	.
344.50	14000.	.	.	. WE		.	.	.	.	.	.	.	.
	14050.	C	.	. IE		.	.	.	.	.	.	.	.
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344.80	14150.	C	.	. IEM		.	.	.	.	.	.	.	.

										KEYSCRSF.OUT
344.90	14200.	C	.	.	.	IEL	.	.	.	.
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345.00	14400.	.	.	.	.	EM	.	.	.	.
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1 19AUG14 08:33:52 PAGE 69

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 HEC-2 WATER SURFACE PROFILES
 Version 4.6.2; May 1991

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

IRF WITH UNNAMED WASH CO

SUMMARY PRINTOUT

	CWSEL	STENCL	STENCR	TOPWID	.01K	K*CHSL	PERENC
	1267.740	.00	.00	90.20	796.99	.00	.00
*	1262.221	.00	.00	47.48	131.62	.00	.00
* *	1276.555 1271.042	.00 .00	.00 .00	77.35 39.56	670.78 129.93	31.30 31.30	.00 .00
* *	1282.608 1275.947	.00 .00	.00 .00	69.23 30.33	728.15 131.51	80.00 80.00	.00 .00
* *	1286.332 1280.252	.00 .00	.00 .00	120.74 69.33	1187.86 127.10	36.11 36.11	.00 .00
*	1290.069	.00	.00	89.77	679.64	46.67	.00

						KEYSCRSF.OUT	
*	1285.510	.00	.00	52.29	130.03	46.67	.00
*	1292.202	.00	.00	122.79	1458.74	2.00	.00
*	1286.811	.00	.00	72.15	341.35	2.00	.00
*	1291.272	.00	.00	30.31	547.61	.00	.00
*	1286.524	.00	.00	29.74	237.94	.00	.00
*	1297.032	.00	.00	368.20	3674.58	.00	.00
	1286.919	.00	.00	63.13	228.66	.00	.00
*	1298.943	.00	.00	98.62	2290.16	12.78	.00
*	1288.345	.00	.00	44.07	157.46	12.78	.00
*	1299.574	.00	.00	333.36	4849.63	7.91	.00
*	1290.169	.00	.00	67.25	290.69	7.91	.00
*	1299.329	.00	.00	352.16	1681.65	15.50	.00
*	1292.853	.00	.00	34.25	158.97	15.50	.00

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19AUG14 08:33:52

PAGE 70

	CWSEL	STENCL	STENCR	TOPWID	.01K	K*CHSL	PERENC
*	1300.539	.00	.00	360.10	703.83	40.63	.00
*	1299.648	.00	.00	317.94	390.13	40.63	.00
*	1306.490	.00	.00	388.92	741.59	11.14	.00
*	1304.999	.00	.00	321.80	223.48	11.14	.00
*	1310.839	.00	.00	173.75	862.33	1.04	.00
*	1307.512	.00	.00	84.89	183.56	1.04	.00
*	1313.875	.00	.00	250.15	991.52	25.96	.00
*	1310.545	.00	.00	84.05	191.80	25.96	.00
*	1314.747	.00	.00	156.99	834.30	12.14	.00
*	1311.469	.00	.00	84.22	150.05	12.14	.00
*	1320.004	.00	.00	416.16	615.72	43.00	.00
*	1320.027	.00	.00	422.02	625.26	43.00	.00
*	1325.577	.00	803.00	619.79	659.85	9.47	803.00
*	1324.060	.00	803.00	297.92	144.42	9.47	803.00
	1334.516	1050.00	2667.00	498.63	752.26	7.29	-1050.00
*	1333.529	1050.00	2667.00	465.28	301.92	7.29	-1050.00
*	1336.439	.00	.00	537.75	1129.27	5.00	.00
*	1334.606	.00	.00	501.75	176.07	5.00	.00
*	1337.036	.00	.00	637.91	1719.89	.00	.00

						KEYSCRSF.OUT	
*	1335.193	.00	.00	566.93	436.10	.00	.00
*	1337.426	.00	.00	457.36	778.32	5.00	.00
*	1336.076	.00	.00	406.16	227.17	5.00	.00
	1338.882	.00	.00	444.88	970.86	13.00	.00
*	1337.045	.00	.00	394.13	169.84	13.00	.00
*	1342.702	.00	.00	393.48	756.66	8.75	.00
*	1341.163	.00	.00	285.39	199.49	8.75	.00
*	1347.058	.00	.00	396.30	863.14	5.48	.00
*	1345.096	.00	.00	191.01	199.09	5.48	.00
*	1348.135	.00	.00	401.32	1193.96	5.88	.00
*	1345.454	.00	.00	69.61	310.80	5.88	.00
*	1350.268	.00	.00	395.78	3005.41	6.67	.00
*	1347.945	.00	.00	274.45	1313.74	6.67	.00
*	1350.744	.00	.00	258.88	1040.01	8.75	.00
*	1347.569	.00	.00	75.52	242.96	8.75	.00

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19AUG14 08:33:52

PAGE 71

	CWSEL	STENCL	STENCR	TOPWID	.01K	K*CHSL	PERENC
*	1351.684	.00	.00	365.26	1135.34	.00	.00
	1347.518	.00	.00	51.58	200.81	.00	.00
*	1357.325	.00	.00	291.33	1028.84	19.50	.00
*	1353.082	.00	.00	70.59	146.85	19.50	.00
*	1361.481	.00	.00	277.21	841.80	16.44	.00
*	1358.828	.00	.00	128.98	130.29	16.44	.00
*	1366.065	.00	.00	503.31	889.01	9.60	.00
*	1364.377	.00	.00	253.09	166.86	9.60	.00
*	1368.371	.00	.00	469.16	792.95	7.27	.00
*	1366.885	.00	.00	300.23	159.05	7.27	.00
	1371.276	.00	594.00	430.53	866.08	7.18	594.00
	1369.667	.00	594.00	357.48	189.41	7.18	594.00
*	1380.346	.00	1550.00	807.10	956.10	5.78	1550.00
*	1377.455	.00	1550.00	30.54	117.30	5.78	1550.00
*	1382.676	.00	1600.00	956.12	1880.47	26.00	1600.00
*	1381.313	.00	1600.00	807.05	545.52	26.00	1600.00
*	1384.629	.00	.00	430.38	407.94	19.06	.00

						KEYSCRSF.OUT	
*	1383.343	.00	.00	221.25	88.50	19.06	.00
*	1393.270	.00	.00	412.06	356.17	13.02	.00
*	1392.326	.00	.00	308.15	68.96	13.02	.00
*	1402.358	.00	2106.00	497.24	227.91	10.50	2106.00
*	1402.327	.00	2106.00	495.63	217.95	10.50	2106.00
*	1406.431	.00	1965.00	461.04	442.84	3.33	1965.00
*	1406.404	.00	1965.00	460.41	428.85	3.33	1965.00
*	1414.909	1554.00	2419.00	693.81	1150.30	9.30	865.00
*	1413.214	1554.00	2419.00	17.44	63.77	9.30	865.00
*	1421.476	.00	1753.00	318.23	402.52	11.75	1753.00
*	1420.849	.00	1753.00	285.84	207.21	11.75	1753.00
*	1423.940	.00	1792.00	269.03	165.61	12.42	1792.00
*	1423.212	.00	1792.00	219.97	52.54	12.42	1792.00
*	1425.815	.00	.00	294.89	147.55	12.12	.00
*	1425.043	.00	.00	221.13	62.40	12.12	.00
*	1426.539	.00	.00	269.91	303.30	25.45	.00
	1425.340	.00	.00	245.63	67.57	25.45	.00

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19AUG14 08:33:52

PAGE 72

	CWSEL	STENCL	STENCR	TOPWID	.01K	K*CHSL	PERENC
*	1431.408	.00	.00	152.78	225.52	13.33	.00
*	1429.138	.00	.00	39.38	31.22	13.33	.00
*	1433.991	.00	.00	265.02	253.46	7.75	.00
*	1430.890	.00	.00	34.04	46.94	7.75	.00
*	1435.374	.00	.00	428.88	423.79	4.65	.00
*	1431.221	.00	.00	40.73	56.47	4.65	.00
*	1439.213	1644.00	1905.00	261.00	178.40	32.72	261.00
*	1438.433	.00	.00	261.18	49.58	32.72	.00
*	1447.902	1339.00	1435.00	74.67	170.54	14.00	96.00
*	1445.871	.00	.00	51.95	29.83	14.00	.00

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19AUG14 08:33:52

PAGE 73

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO=	1267.740	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=	1267.740	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=	1267.740	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	1267.740	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=	1267.740	PROFILE=	1	CRITICAL DEPTH ASSUMED
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CAUTION SECNO=	1267.740	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=	1267.740	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1267.740	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=	1267.740	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	1	BRIDGE DECK DEFINITION ERROR
CAUTION SECNO=	1267.740	PROFILE=	2	BRIDGE DECK DEFINITION ERROR
WARNING SECNO=	1267.740	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1267.740	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=	1267.740	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=	1267.740	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=	1267.740	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	20 TRIALS ATTEMPTED TO BALANCE WSEL
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19AUG14 08:33:52

PAGE 74

CAUTION SECNO=	1267.740	PROFILE=	1	MINIMUM SPECIFIC ENERGY
CAUTION SECNO=	1267.740	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	2	PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=	1267.740	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1267.740	PROFILE=	2	MINIMUM SPECIFIC ENERGY
WARNING SECNO=	1267.740	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1267.740	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1267.740	PROFILE=	1	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=	1267.740	PROFILE=	2	CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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19AUG14 08:33:52

PAGE 75

CAUTION SECNO= 1267.740 PROFILE= 2 CRITICAL DEPTH ASSUMED
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19AUG14 08:33:52

PAGE 76

CAUTION SECNO= 1267.740 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 1267.740 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 1267.740 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
 WARNING SECNO= 1267.740 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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 CAUTION SECNO= 1267.740 PROFILE= 1 MINIMUM SPECIFIC ENERGY
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 CAUTION SECNO= 1267.740 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1267.740 PROFILE= 1 CRITICAL DEPTH ASSUMED
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 CAUTION SECNO= 1267.740 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

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 CAUTION SECNO= 1267.740 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO= 1267.740 PROFILE= 2 CRITICAL DEPTH ASSUMED
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 CAUTION SECNO= 1267.740 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 1267.740 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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PAGE 77

CAUTION SECNO= 1267.740 PROFILE= 1 CRITICAL DEPTH ASSUMED
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APPENDIX D – HYDRAULIC WORK MAPS



Figure 2 County of SD DPW HEC 2 Cross Section Locations

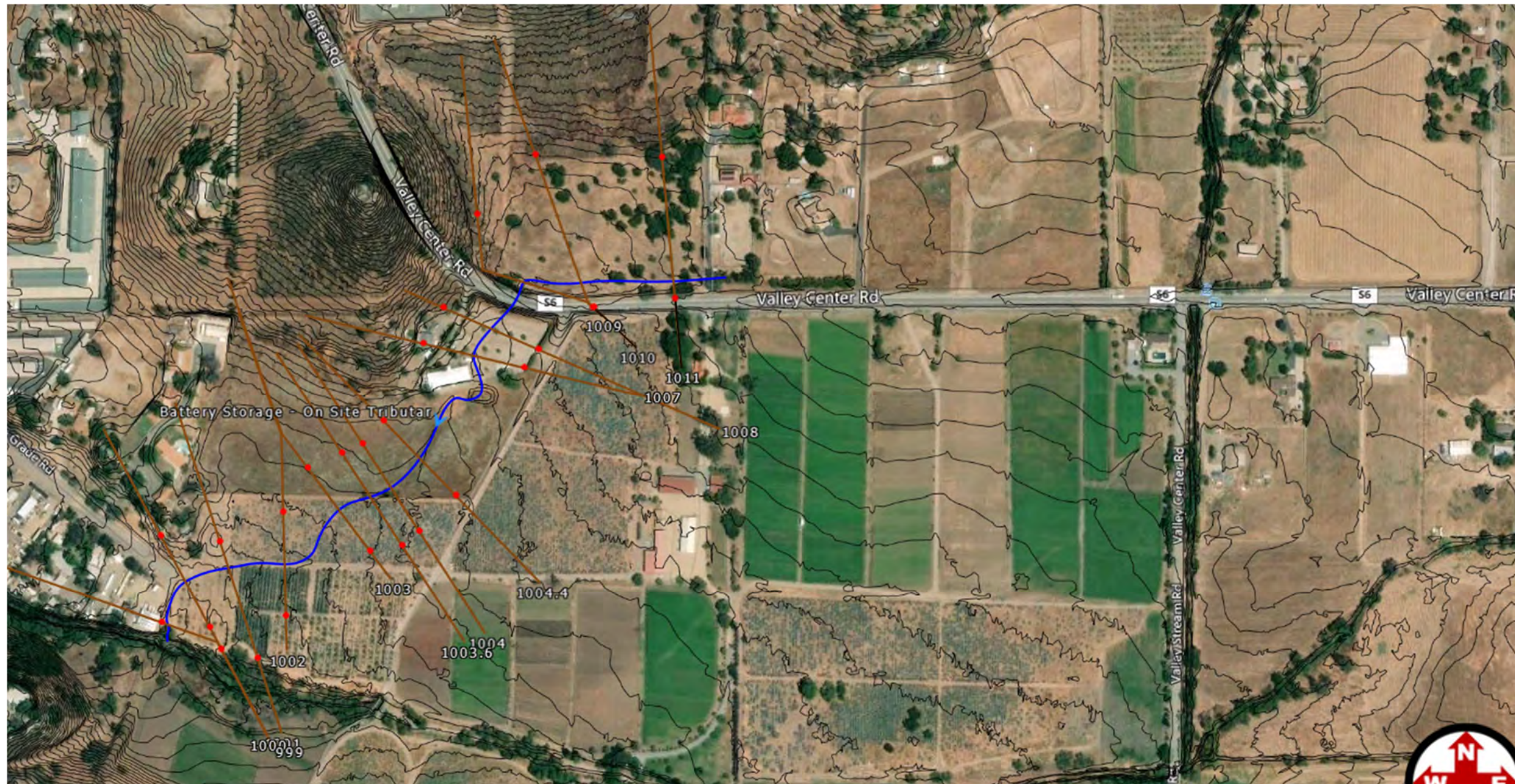


Figure 3 Kimley Horn Cross Sections On-Site Tributary



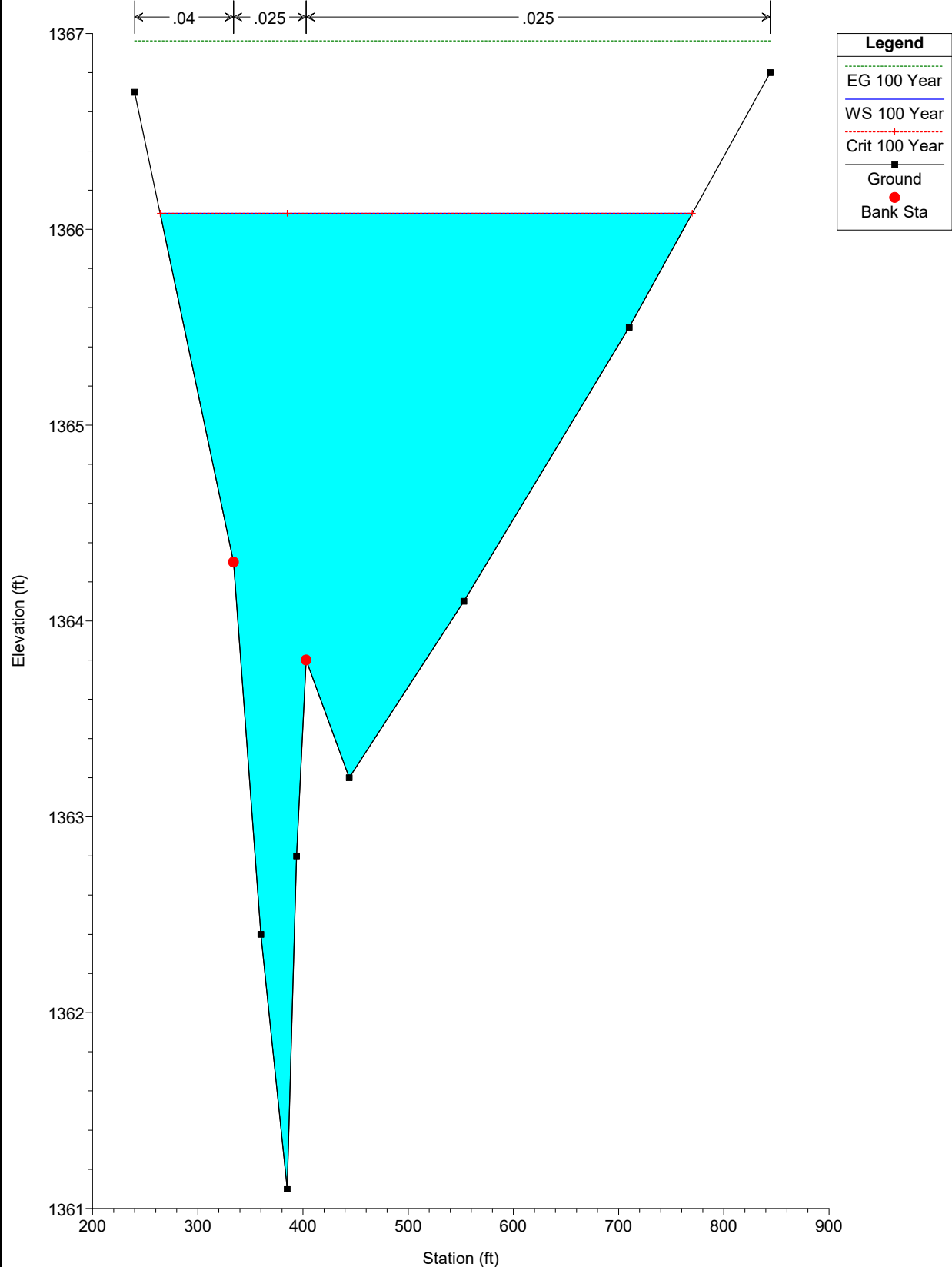
APPENDIX E – HEC RAS HYDRAULIC SUMMARY REPORT



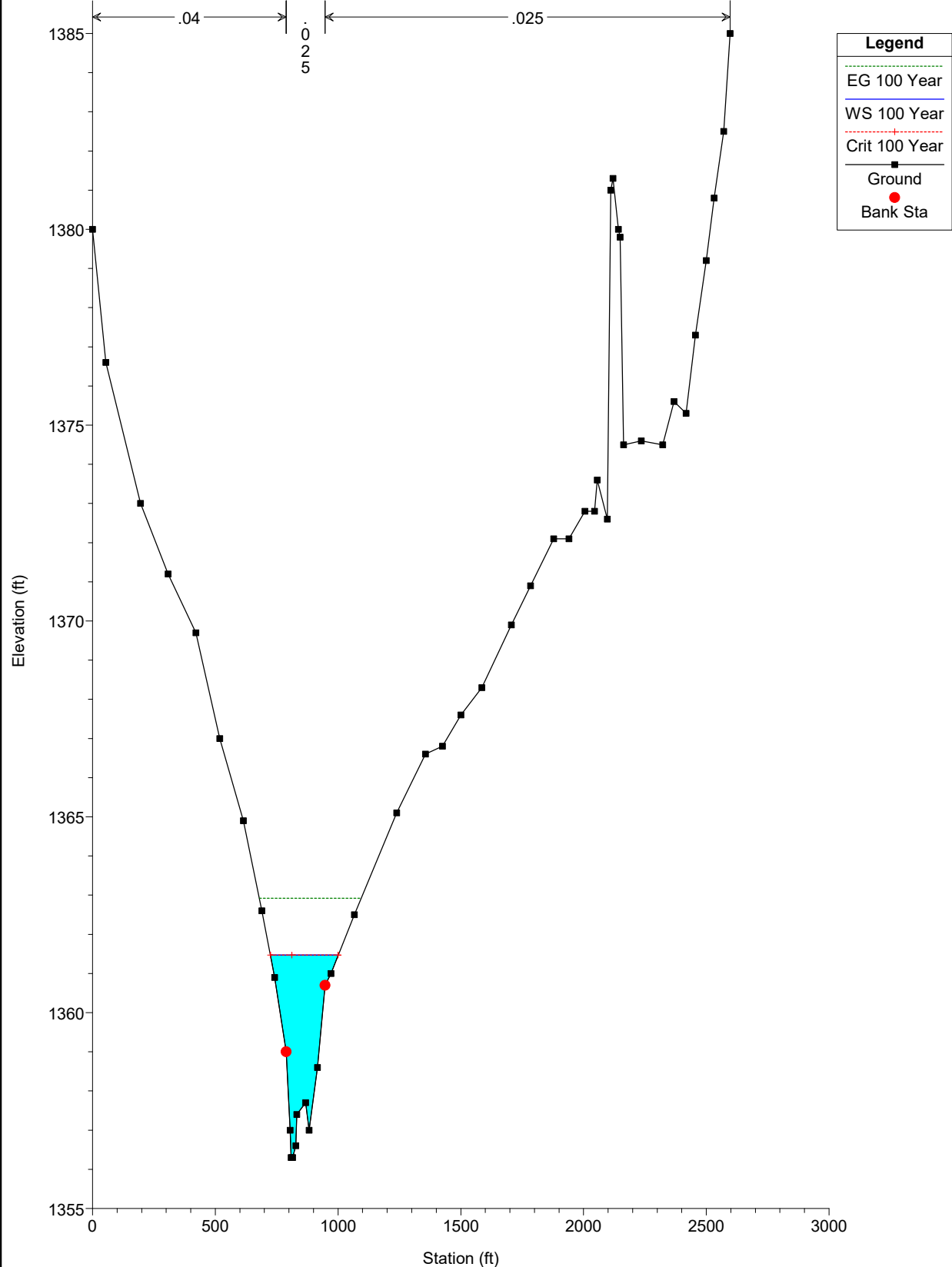
Table 2 County DPW HEC 2 Duplicative Analysis

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
South Fork	331	100 Year	5900	1361.1	1366.08	1366.08	1366.96	0.005028	9.69	893.32	505.75	0.91
South Fork	330	100 Year	5900	1356.3	1361.47	1361.47	1362.92	0.005042	9.89	666.46	275.94	0.92
South Fork	329	100 Year	5900	1348.9	1357.43	1357.43	1358.93	0.003195	10.75	753.21	306.39	0.79
South Fork	328	100 Year	5900	1341.1	1351.8	1351.8	1352.99	0.002584	9.84	845.02	378.56	0.7
South Fork	327	100 Year	5900	1341.1	1350.96	1350.96	1352.42	0.002985	10.94	737.63	275.52	0.77
South Fork	325.3	100 Year	6000	1340.4	1350.5	1347.48	1350.74	0.000465	5.99	1716.56	409.86	0.33
South Fork	325.2	Bridge	Bridge									
South Fork	325.1	100 Year	6000	1340.2	1348.22	1348.22	1349.27	0.00238	9.56	928.04	402.27	0.68
South Fork	325	100 Year	6000	1339.7	1347.27	1347.27	1348.25	0.004436	9.73	842.14	404.63	0.87
South Fork	324	100 Year	6000	1337.4	1342.79	1342.79	1343.76	0.005692	10.93	925.57	394.16	0.97

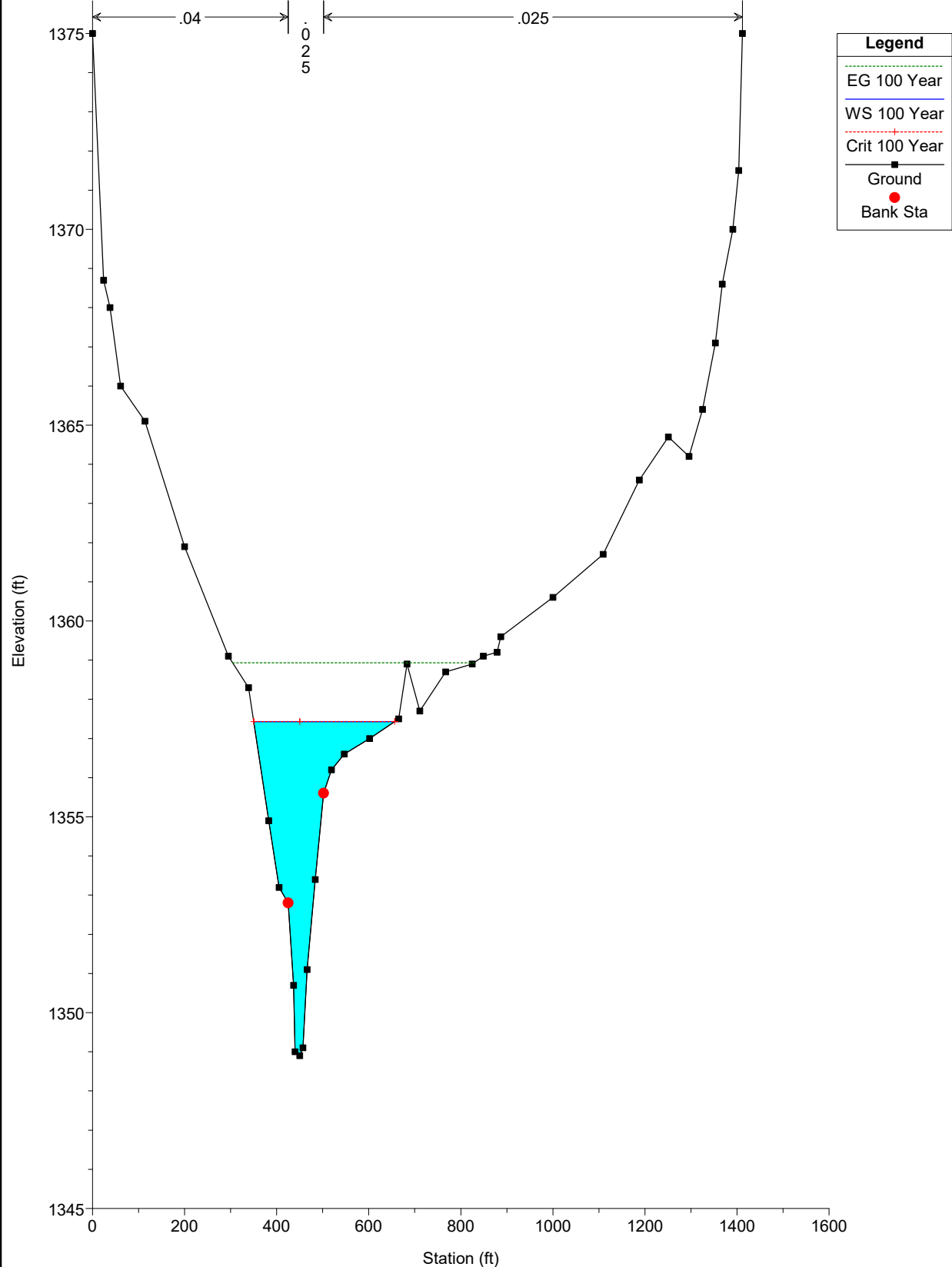
HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 331



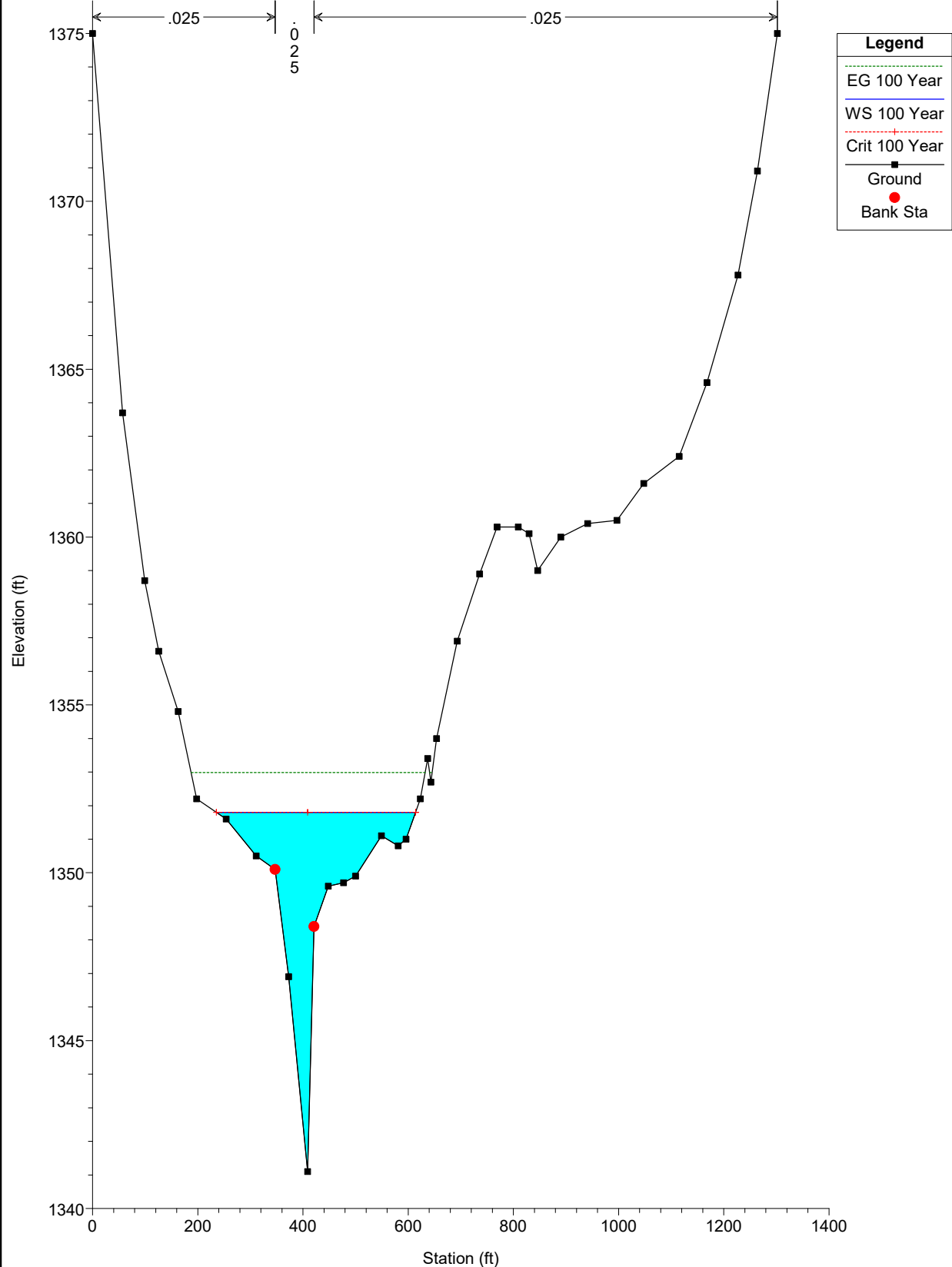
HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 330



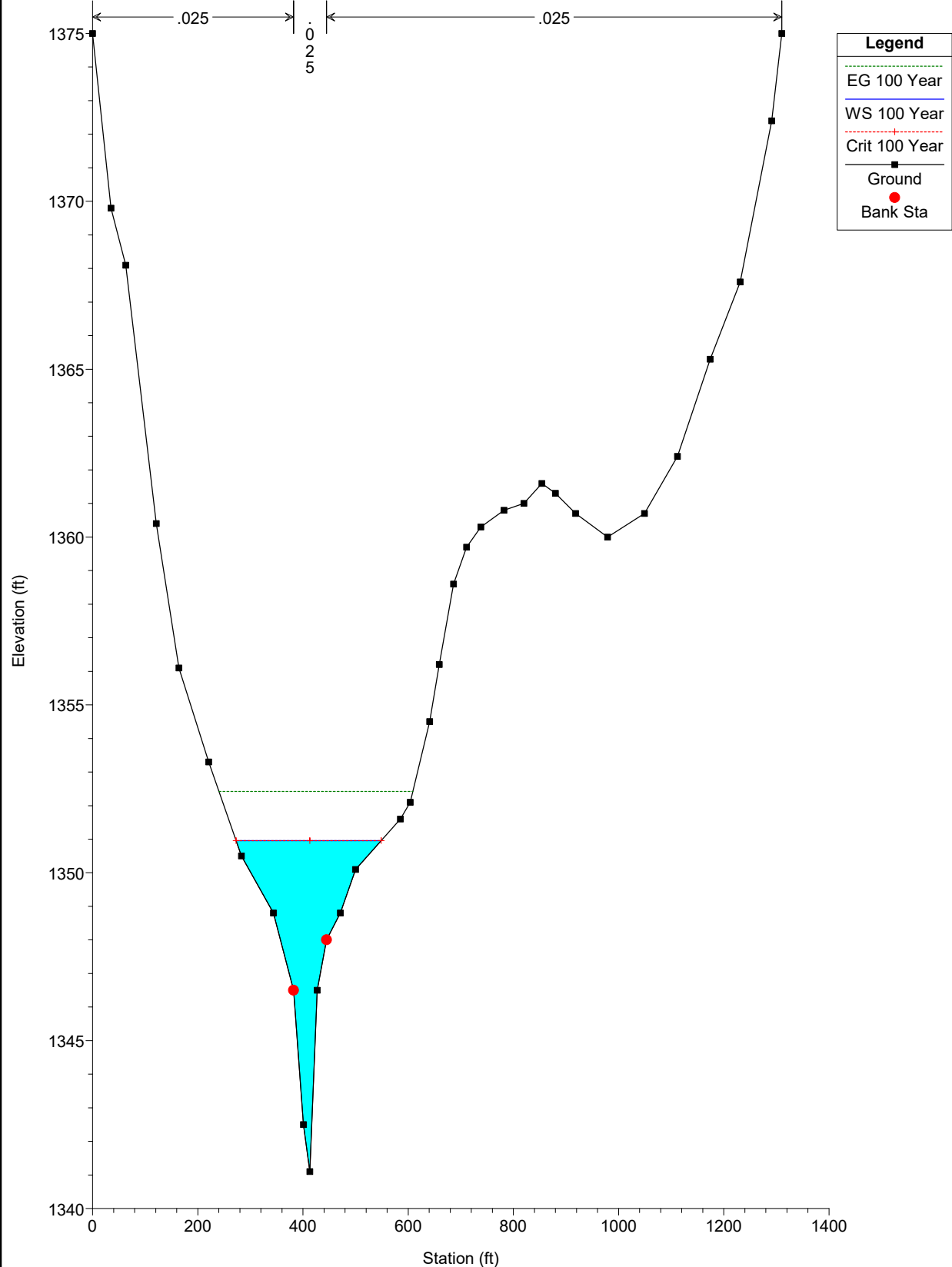
HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 329



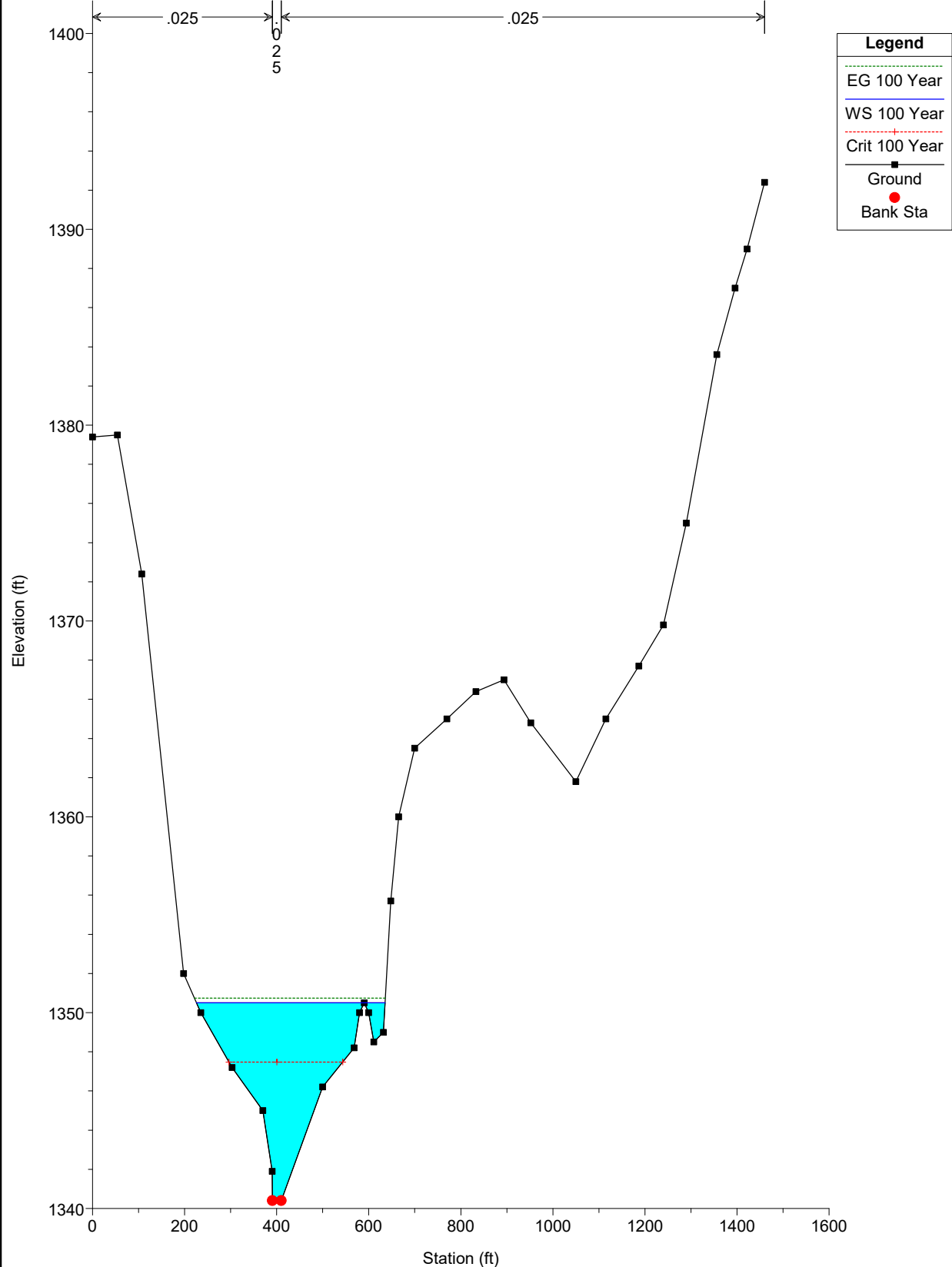
HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 328

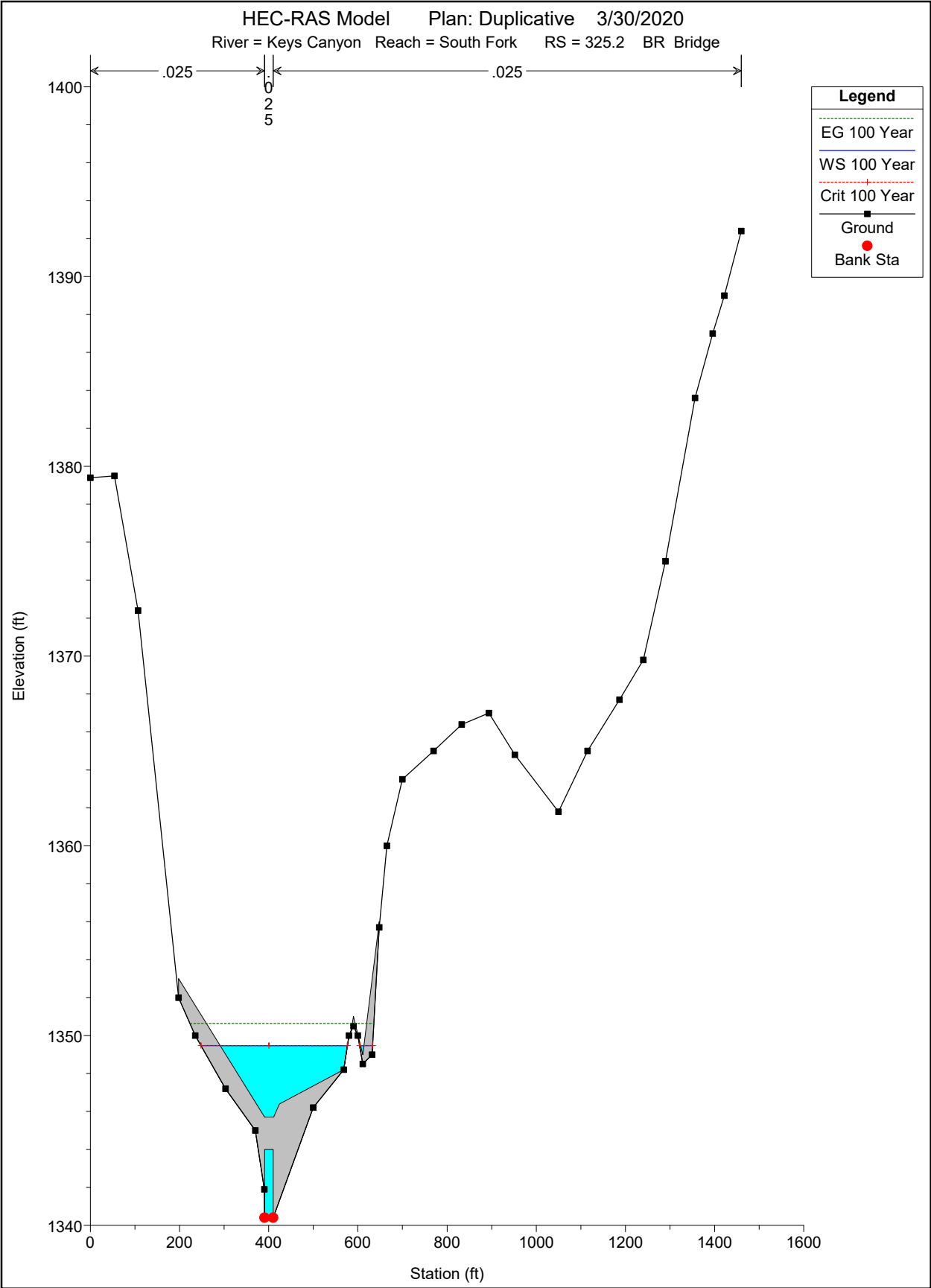


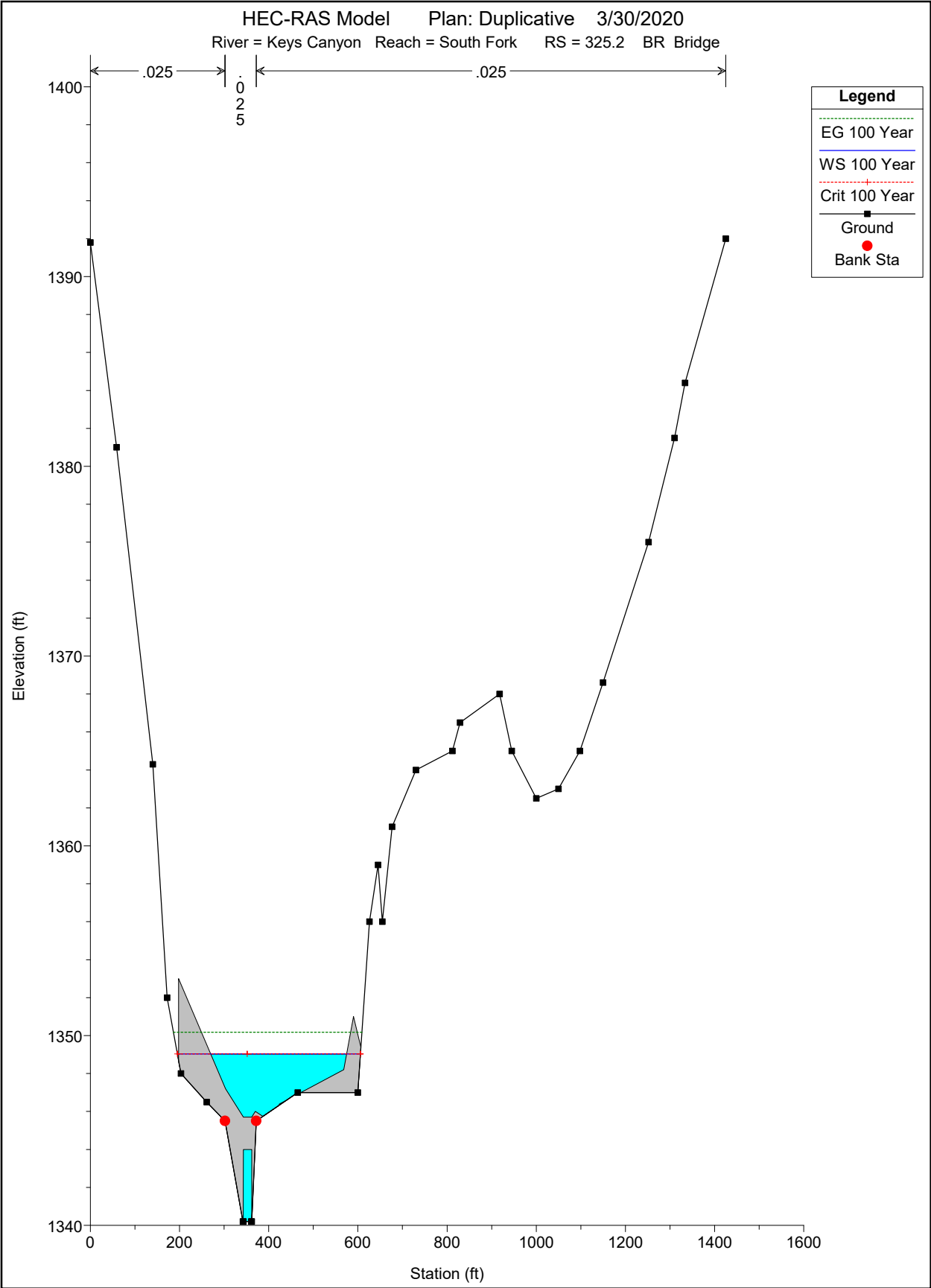
HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 327



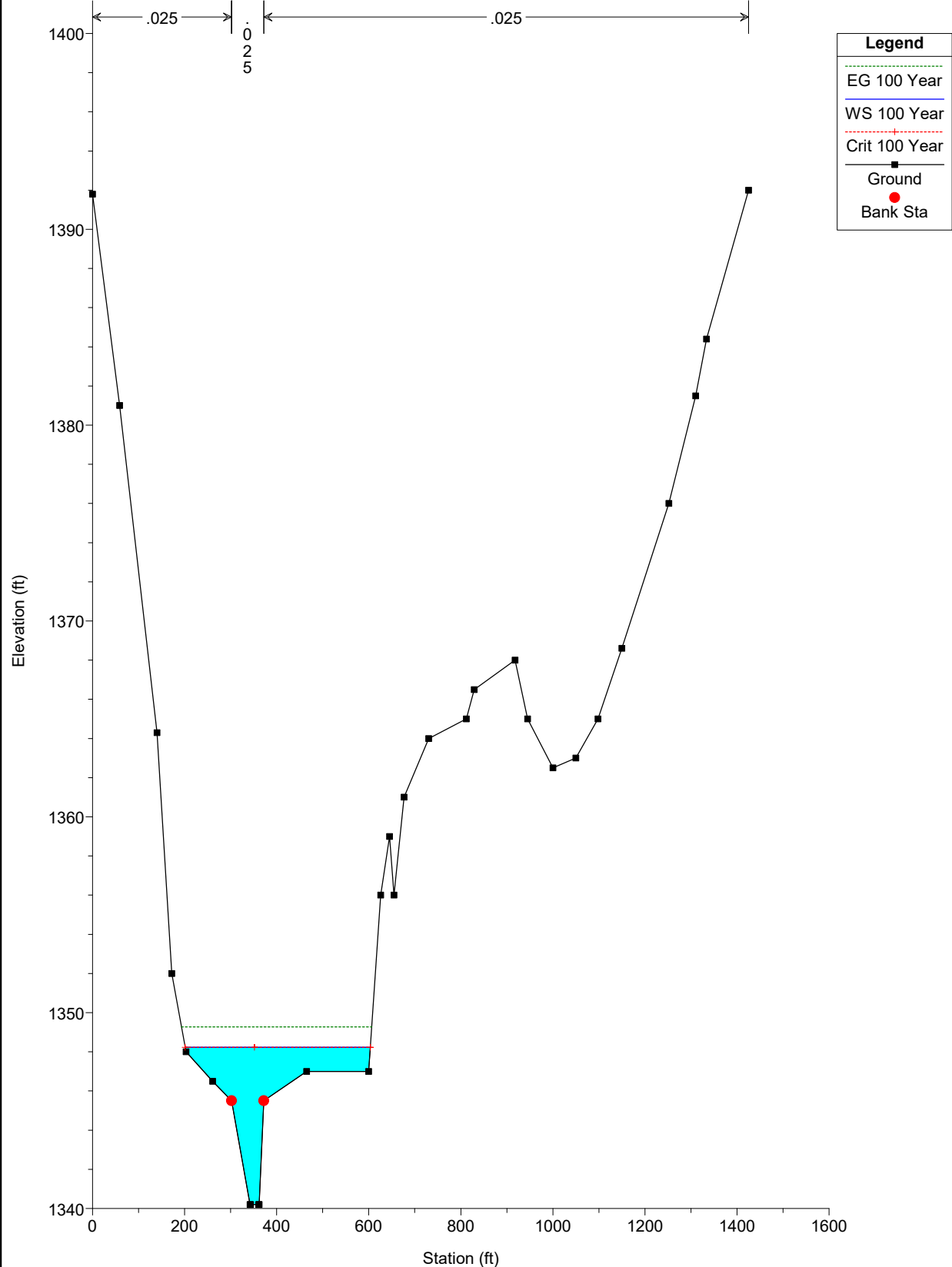
HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 325.3



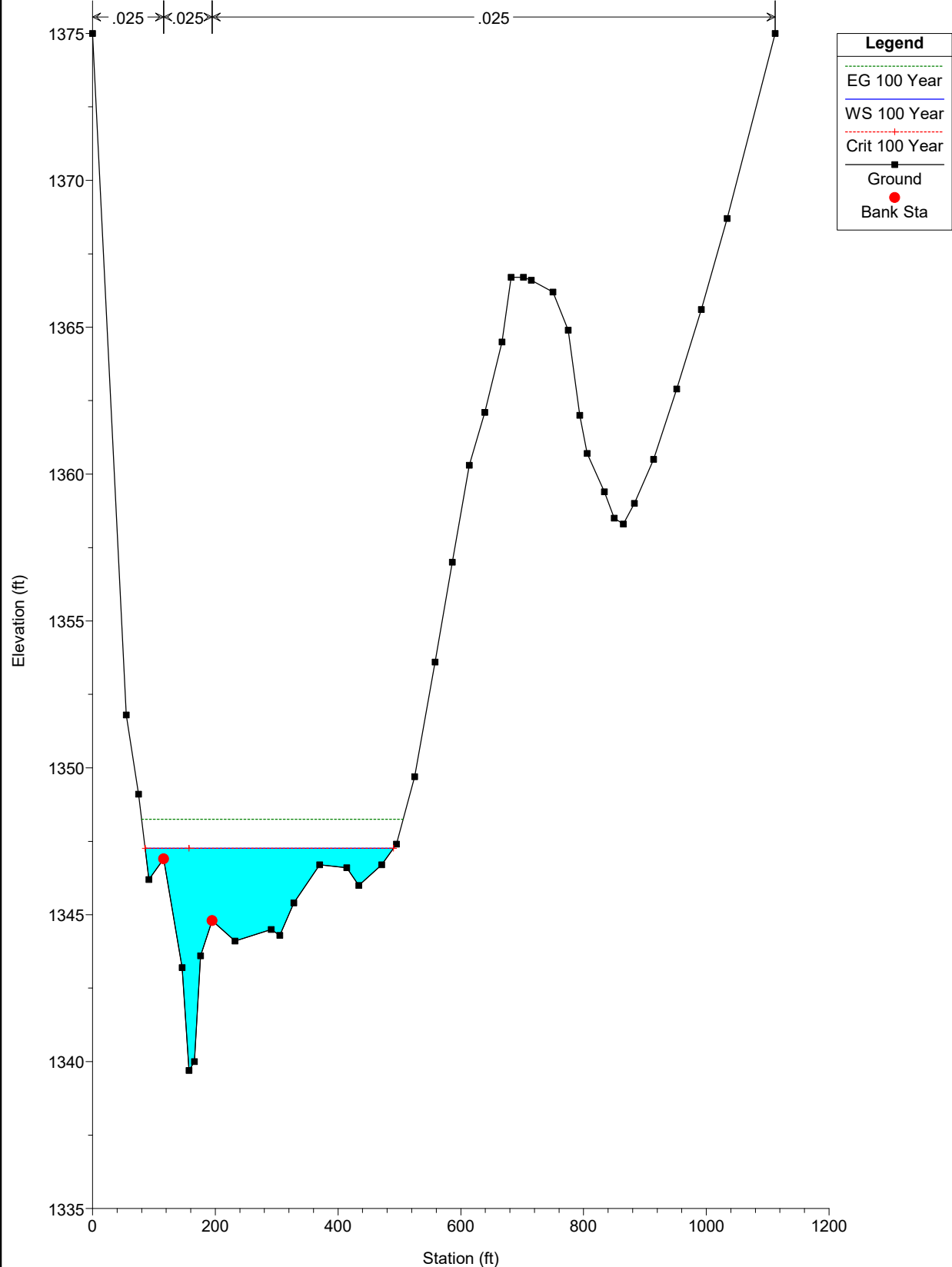




HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 325.1



HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 325



HEC-RAS Model Plan: Duplicative 3/30/2020
River = Keys Canyon Reach = South Fork RS = 324

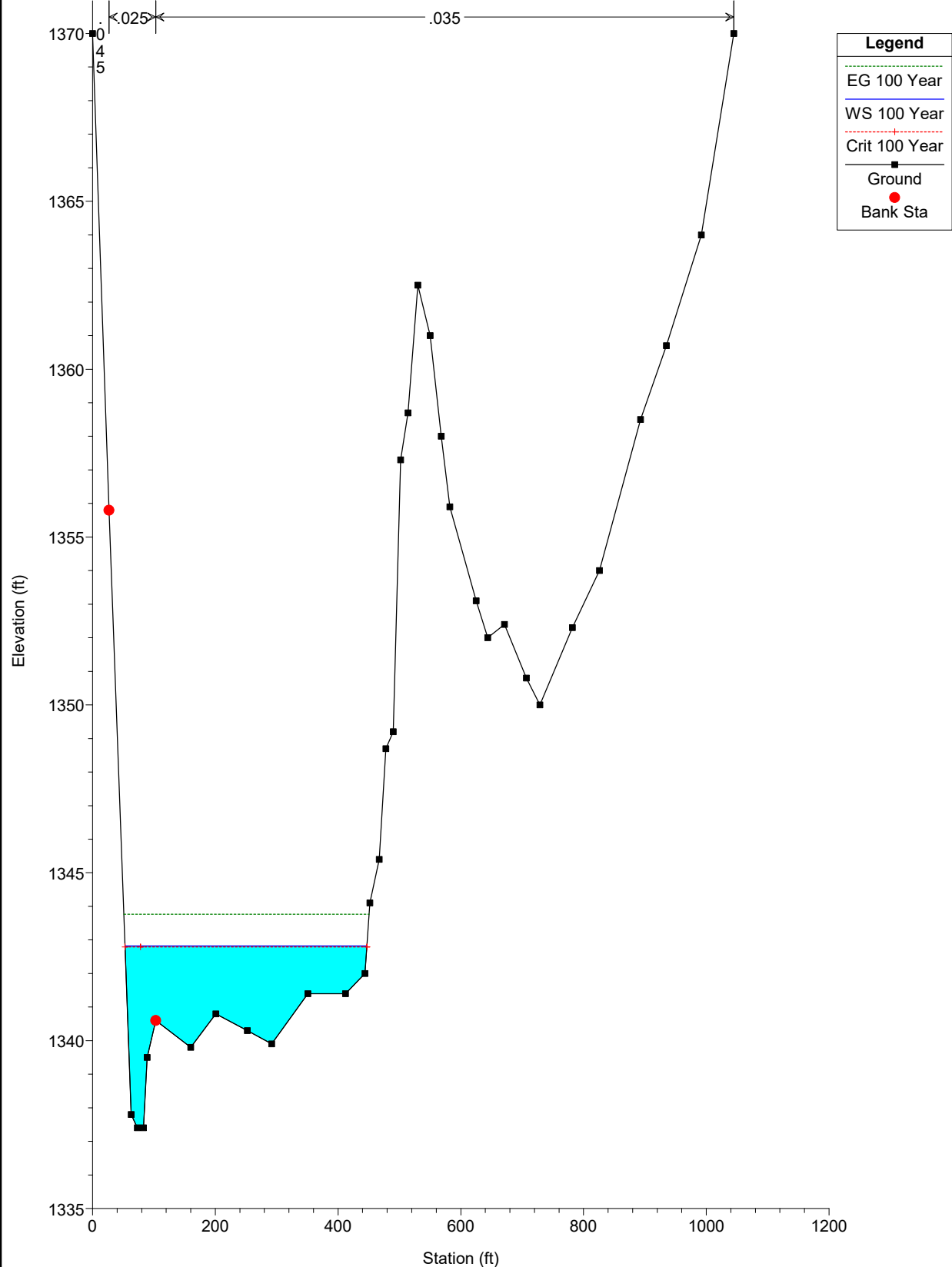
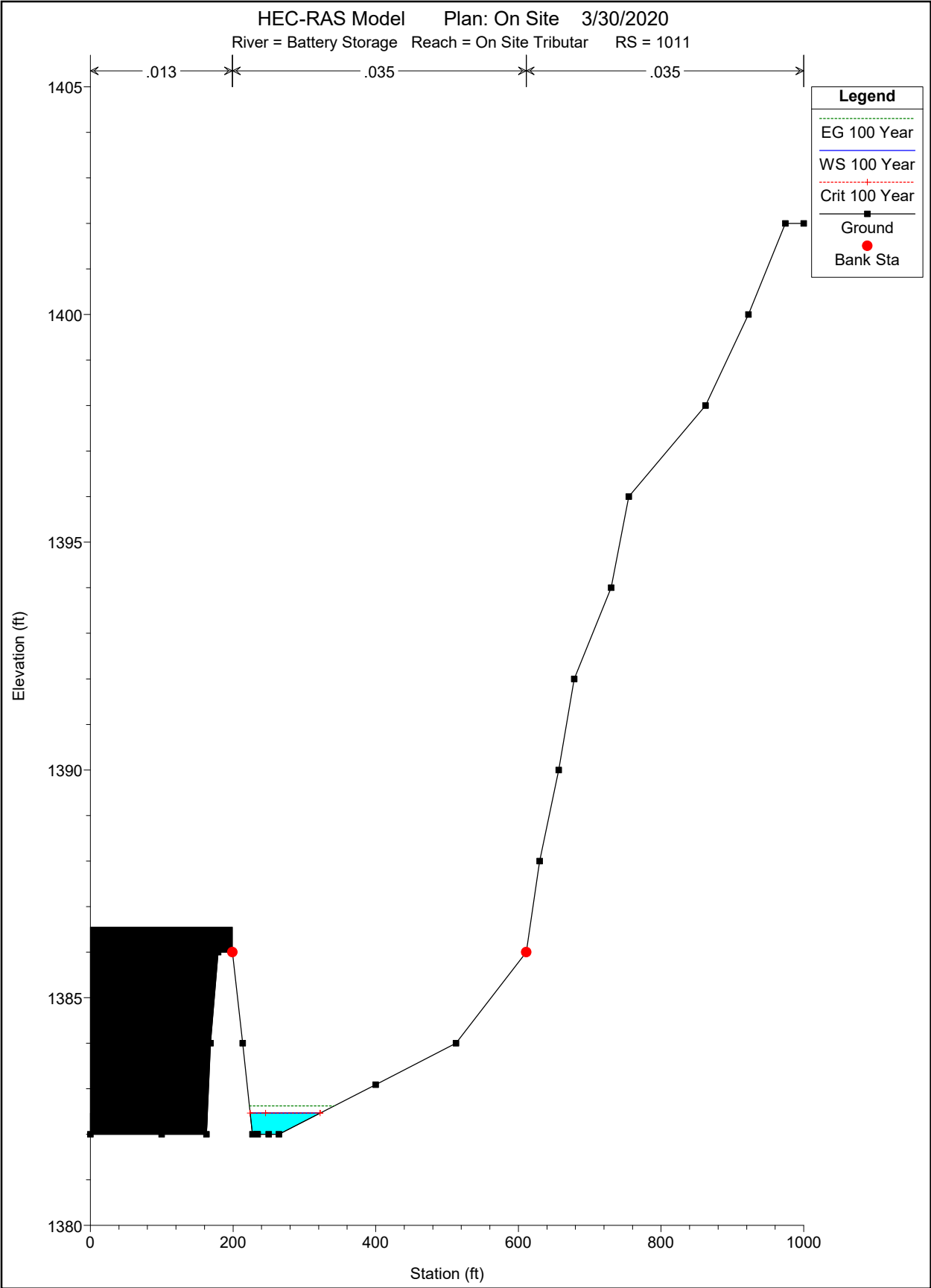
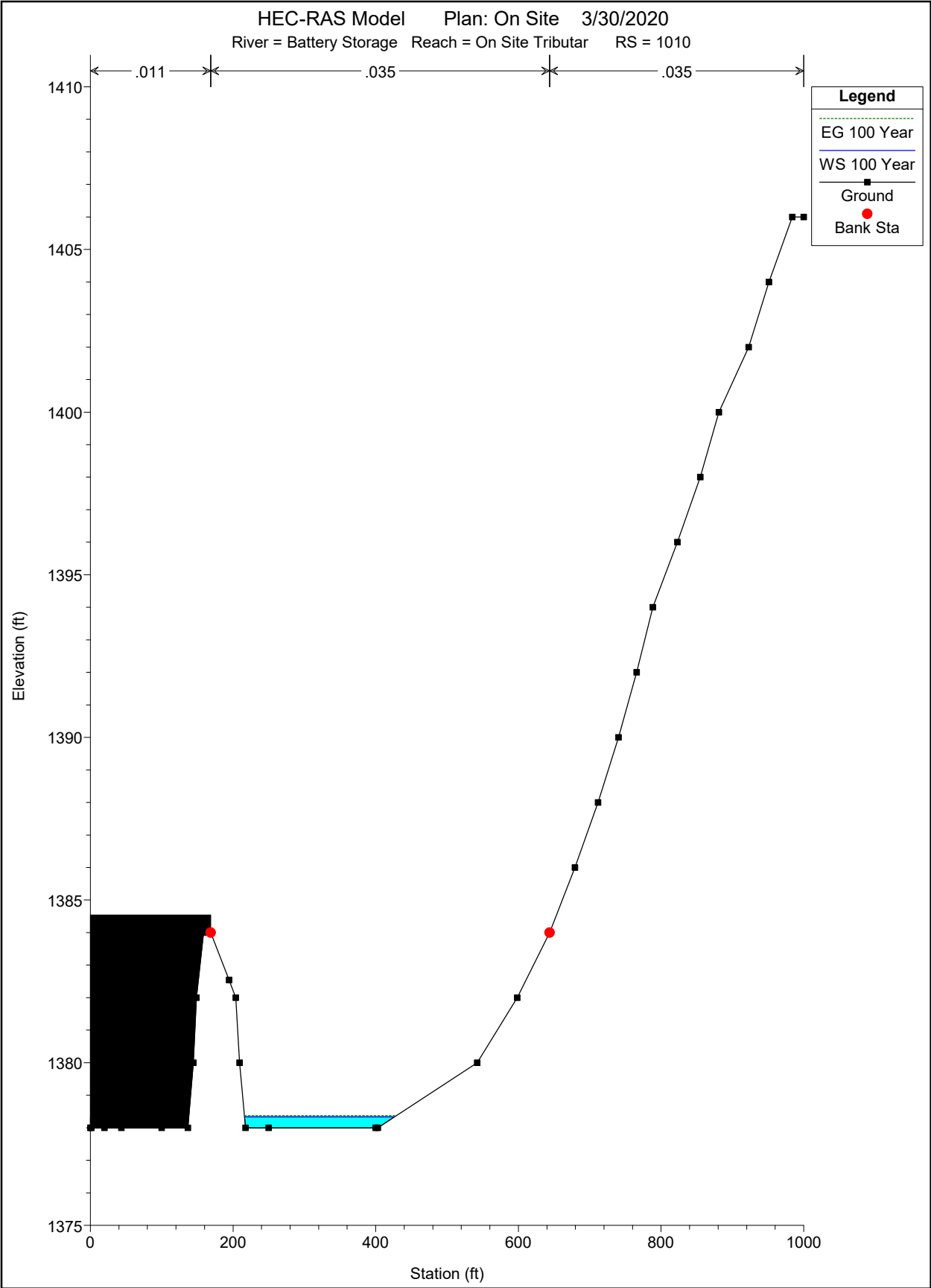


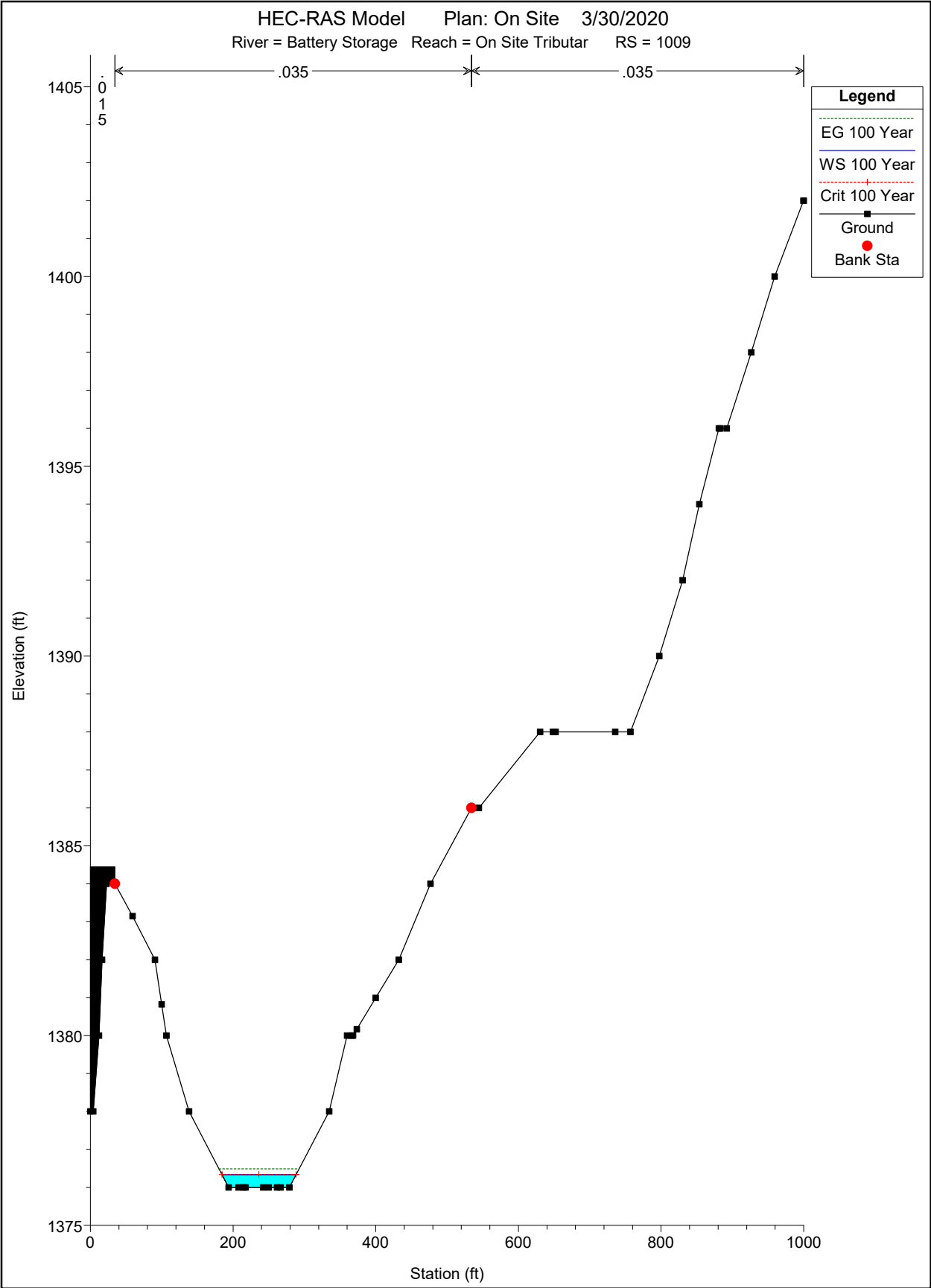


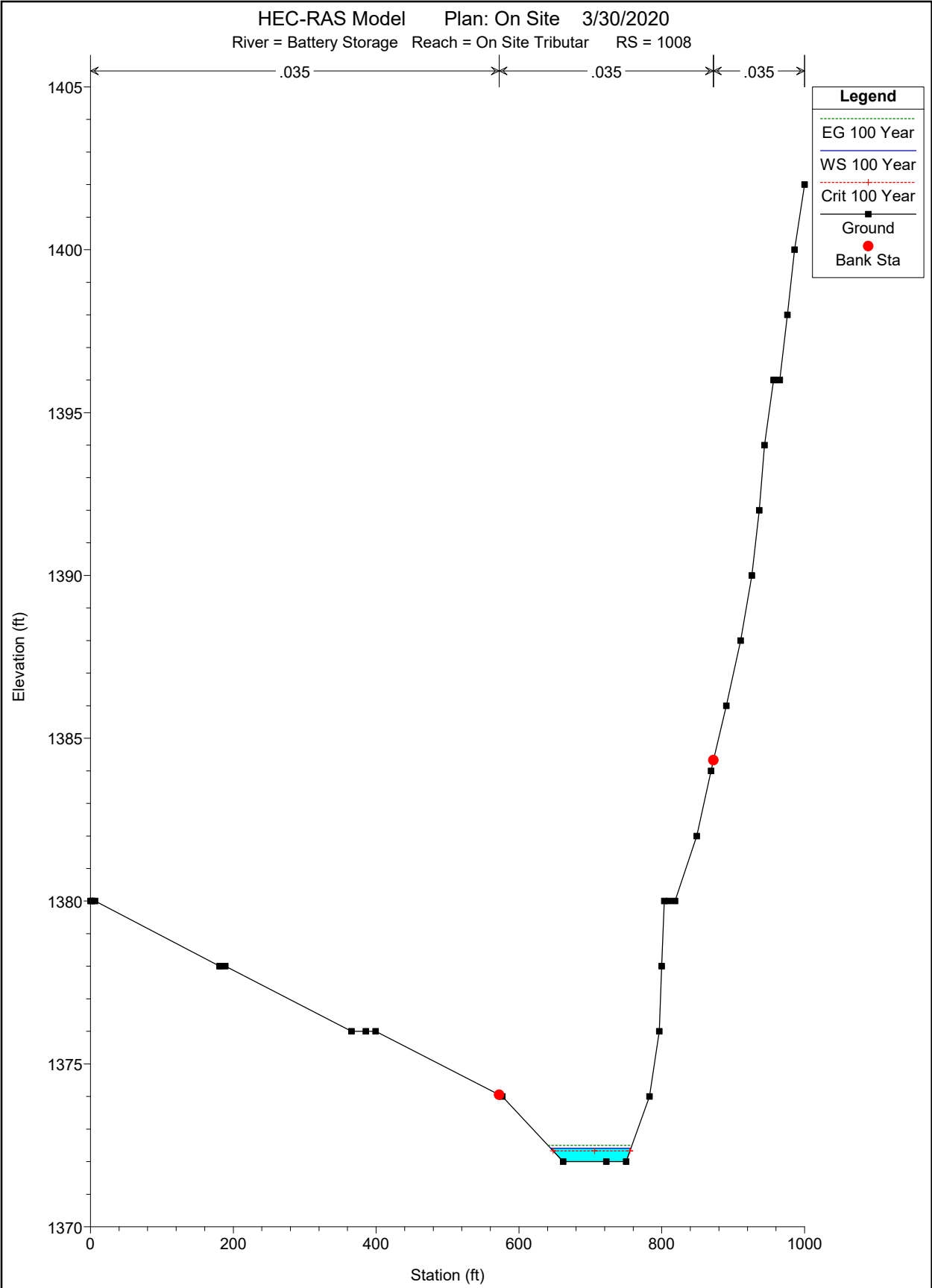
Table 3 Kimley Horn HEC RAS Analysis of On-Site Tributary

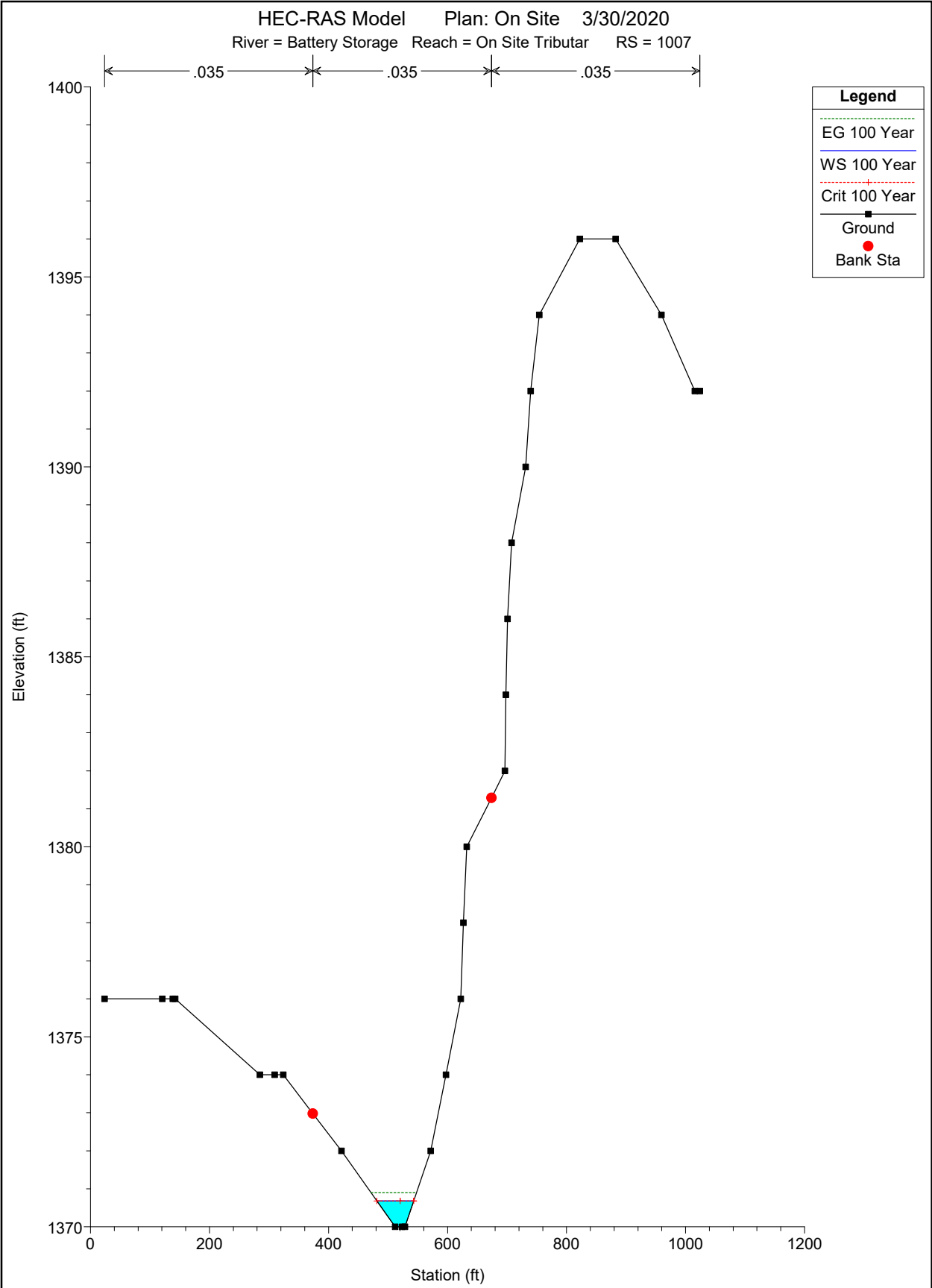
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
On Site Tributary	1011	100 Year	100	1382	1382.46	1382.46	1382.62	0.026002	3.2	31.27	97.93	1
On Site Tributary	1010	100 Year	100	1378	1378.33		1378.37	0.006026	1.52	65.8	210.08	0.48
On Site Tributary	1009	100 Year	100	1376	1376.34	1376.34	1376.49	0.027077	3.16	31.61	103.68	1.01
On Site Tributary	1008	100 Year	100	1372	1372.41	1372.33	1372.5	0.012567	2.43	41.07	112.24	0.71
On Site Tributary	1007	100 Year	100	1370	1370.68	1370.68	1370.9	0.023944	3.75	26.68	61.89	1.01
On Site Tributary	1004.4	100 Year	100	1366	1366.81		1366.84	0.002549	1.32	75.59	155.88	0.33
On Site Tributary	1004	100 Year	100	1366	1366.12	1366.12	1366.15	0.023616	1.53	64.62	559.39	0.8
On Site Tributary	1003.6	100 Year	100	1364	1364.67		1364.7	0.002933	1.38	72.72	157.21	0.36
On Site Tributary	1003	100 Year	100	1364	1364.19		1364.22	0.009777	1.36	73.02	391.76	0.56
On Site Tributary	1002	100 Year	100	1360	1360.15	1360.15	1360.23	0.03498	2.22	44.7	298.72	1.02
On Site Tributary	1001	100 Year	100	1356	1357.43		1357.43	0.000003	0.06	748.39	408.92	0.01
On Site Tributary	1000	100 Year	100	1354	1357.43		1357.43	0	0.04	2004.12	558.96	0
On Site Tributary	999	100 Year	100	1350	1357.43	1346.29	1357.43	0	0.01	6174.98	915.71	0

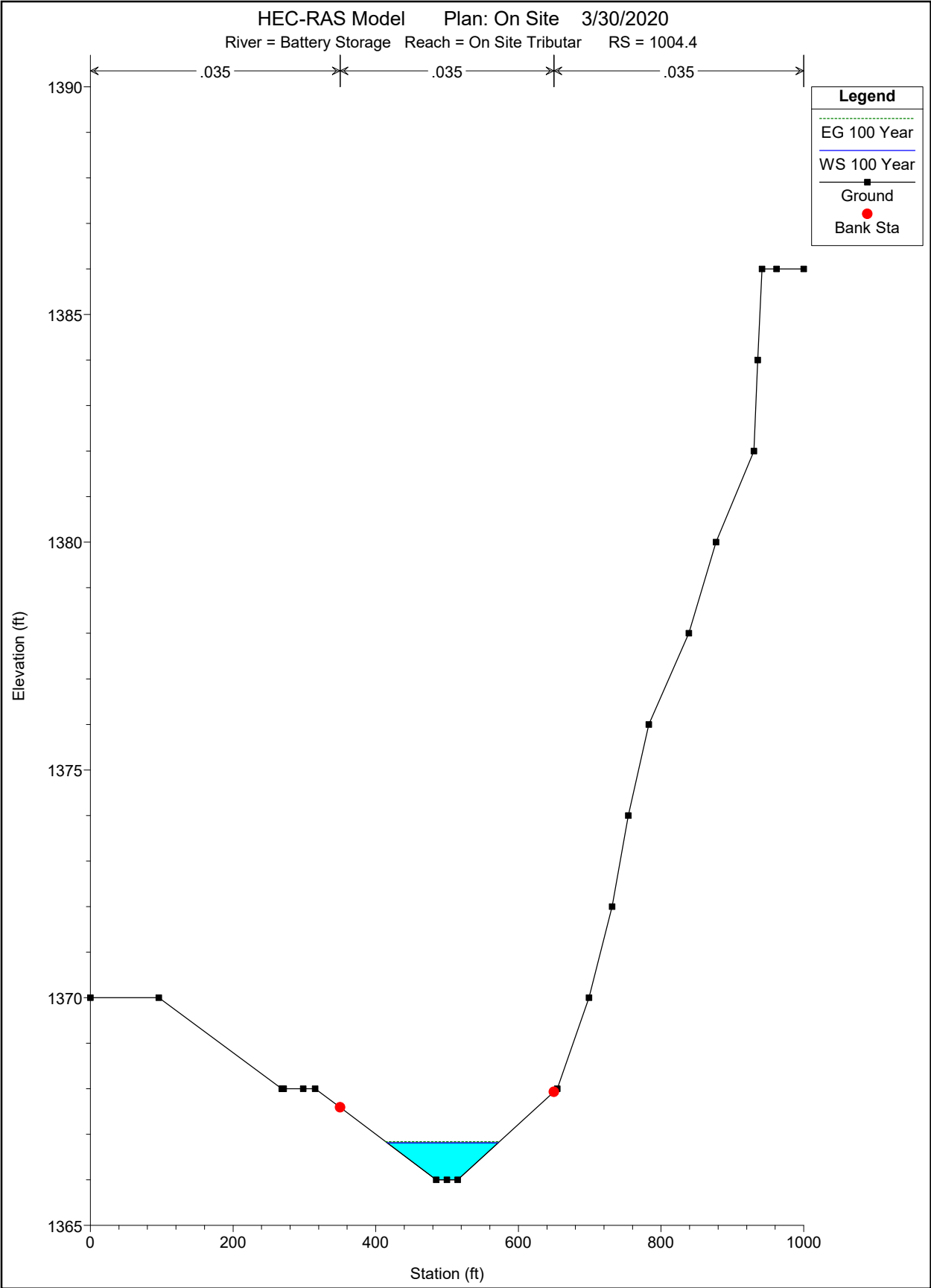


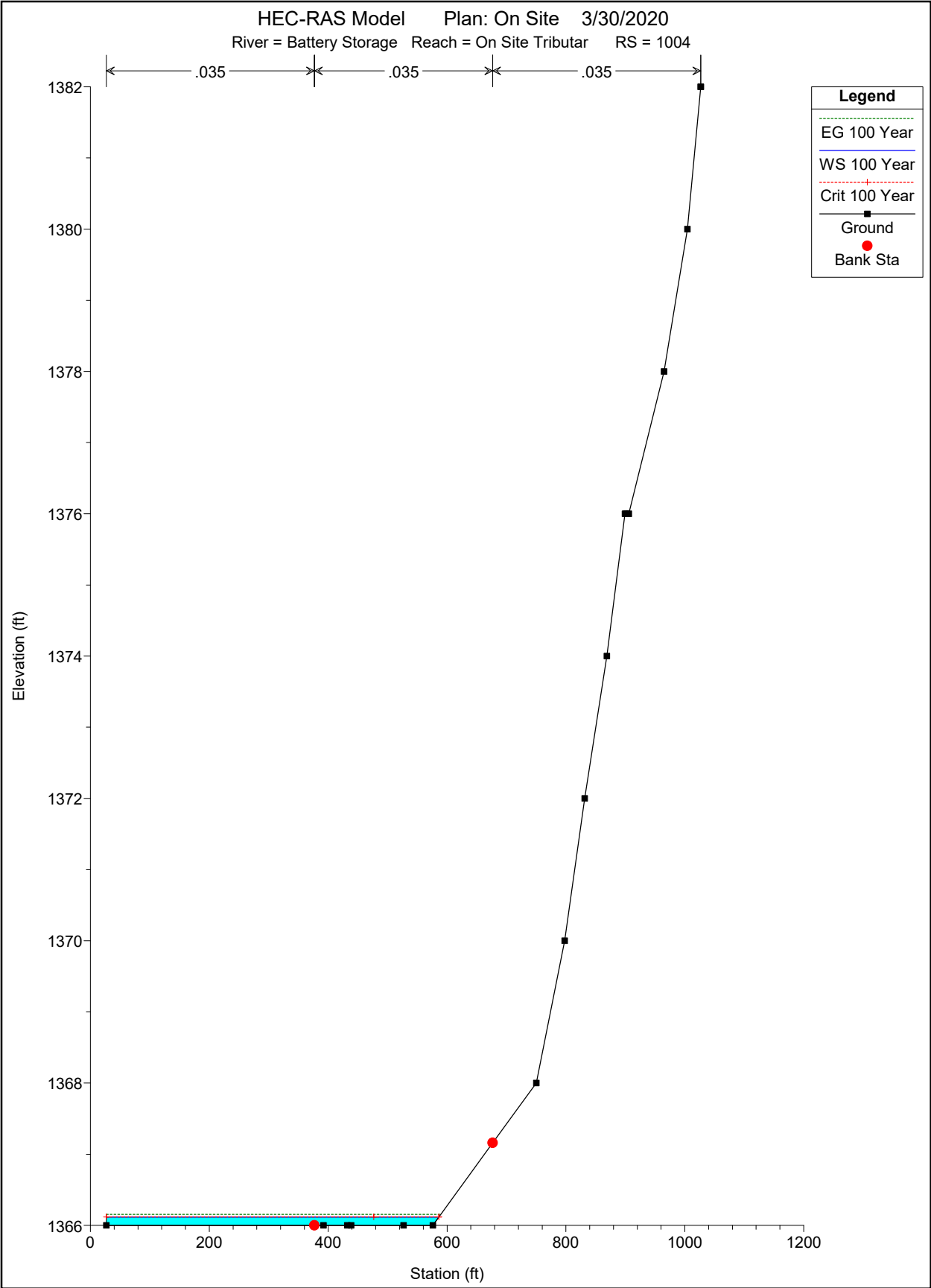


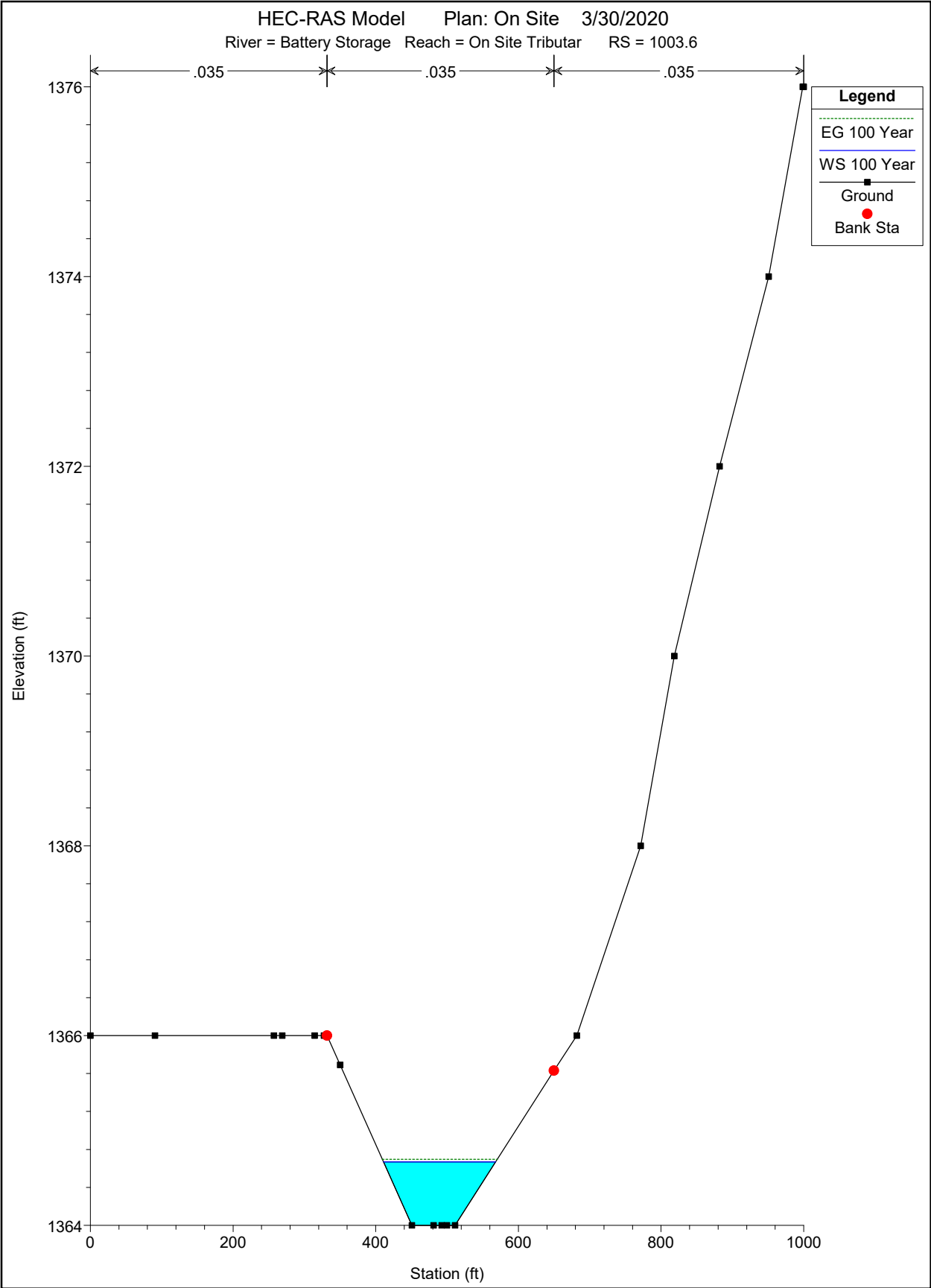


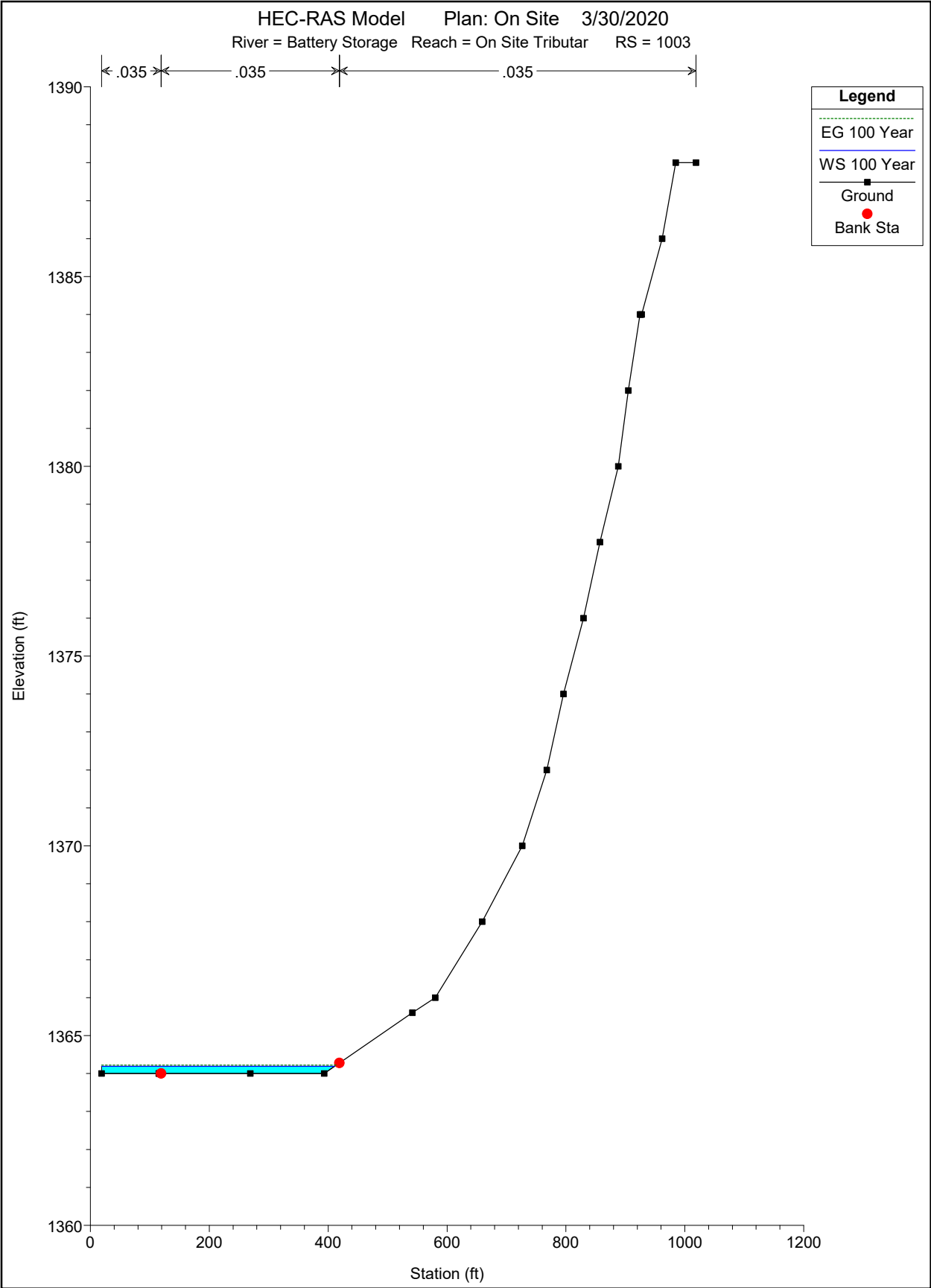


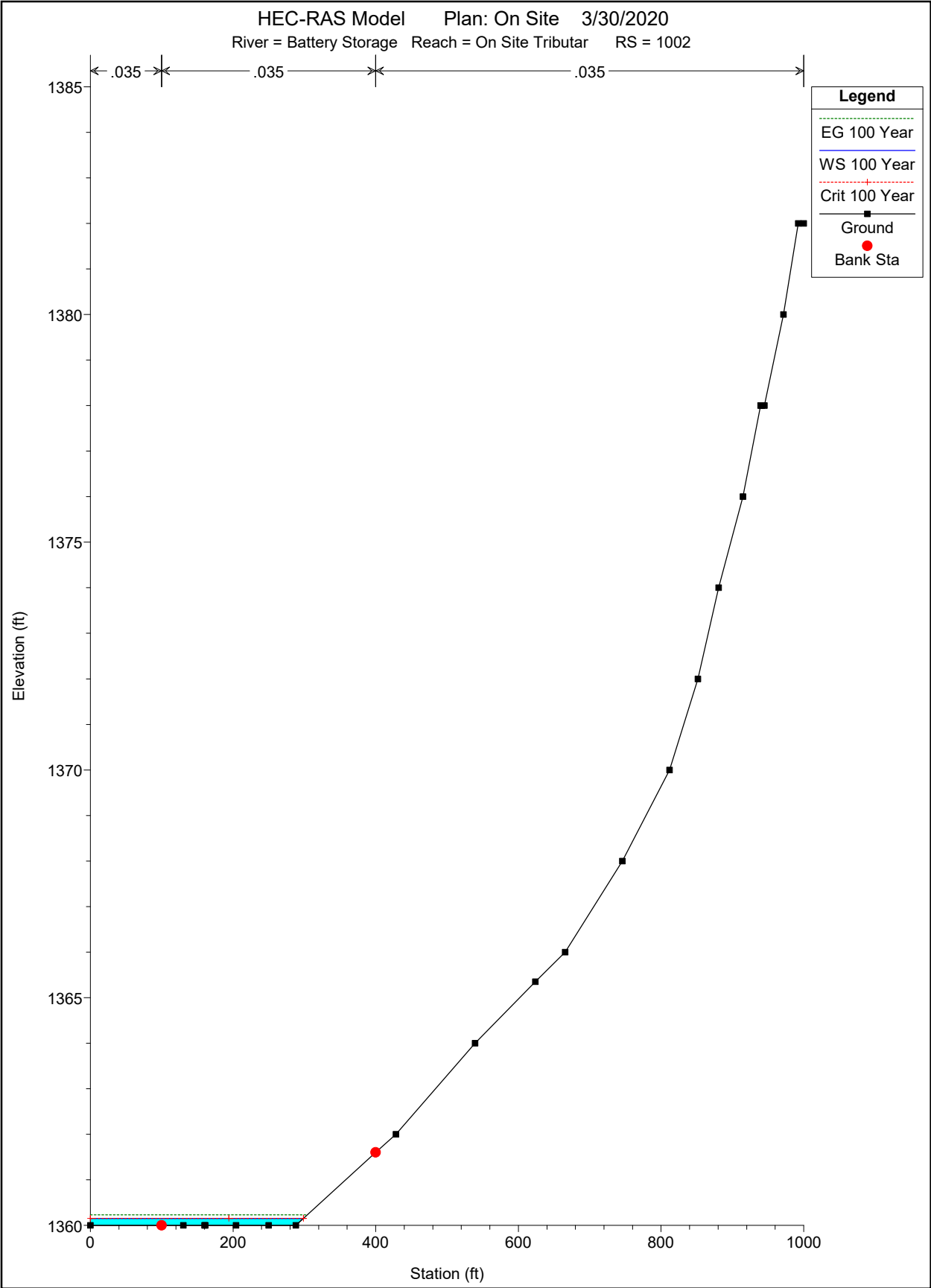


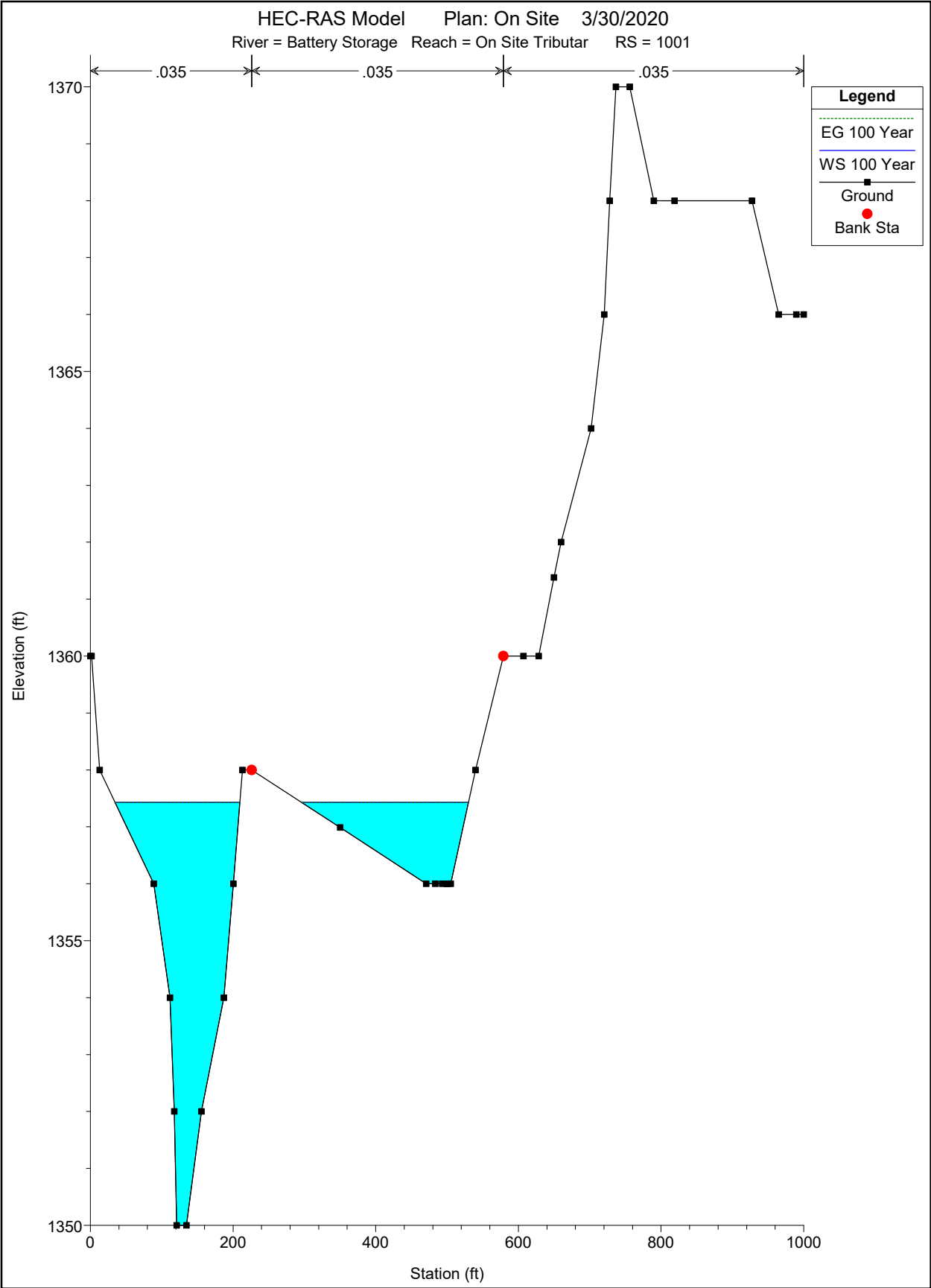


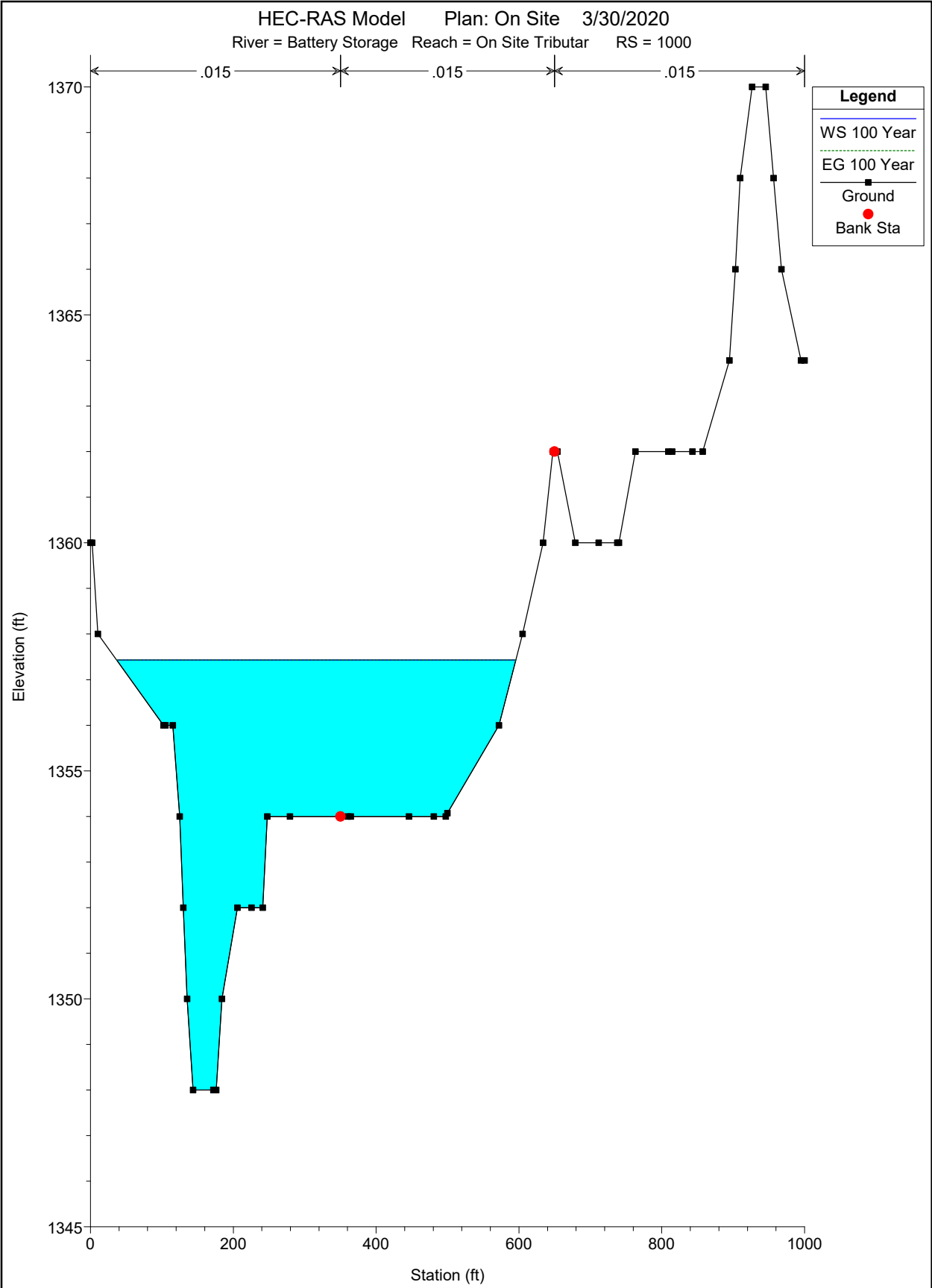


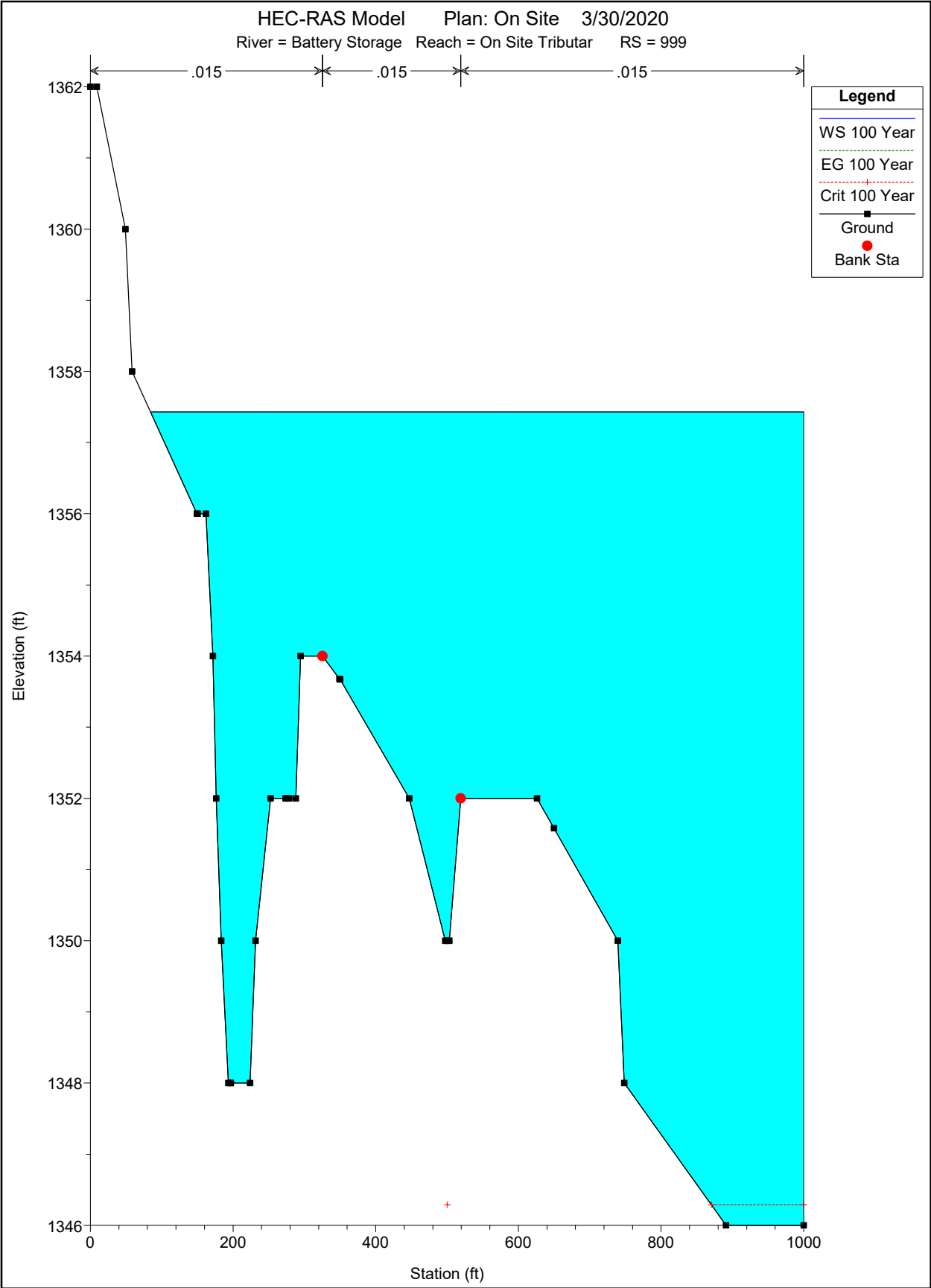














APPENDIX F – FLOODPLAIN MAPS

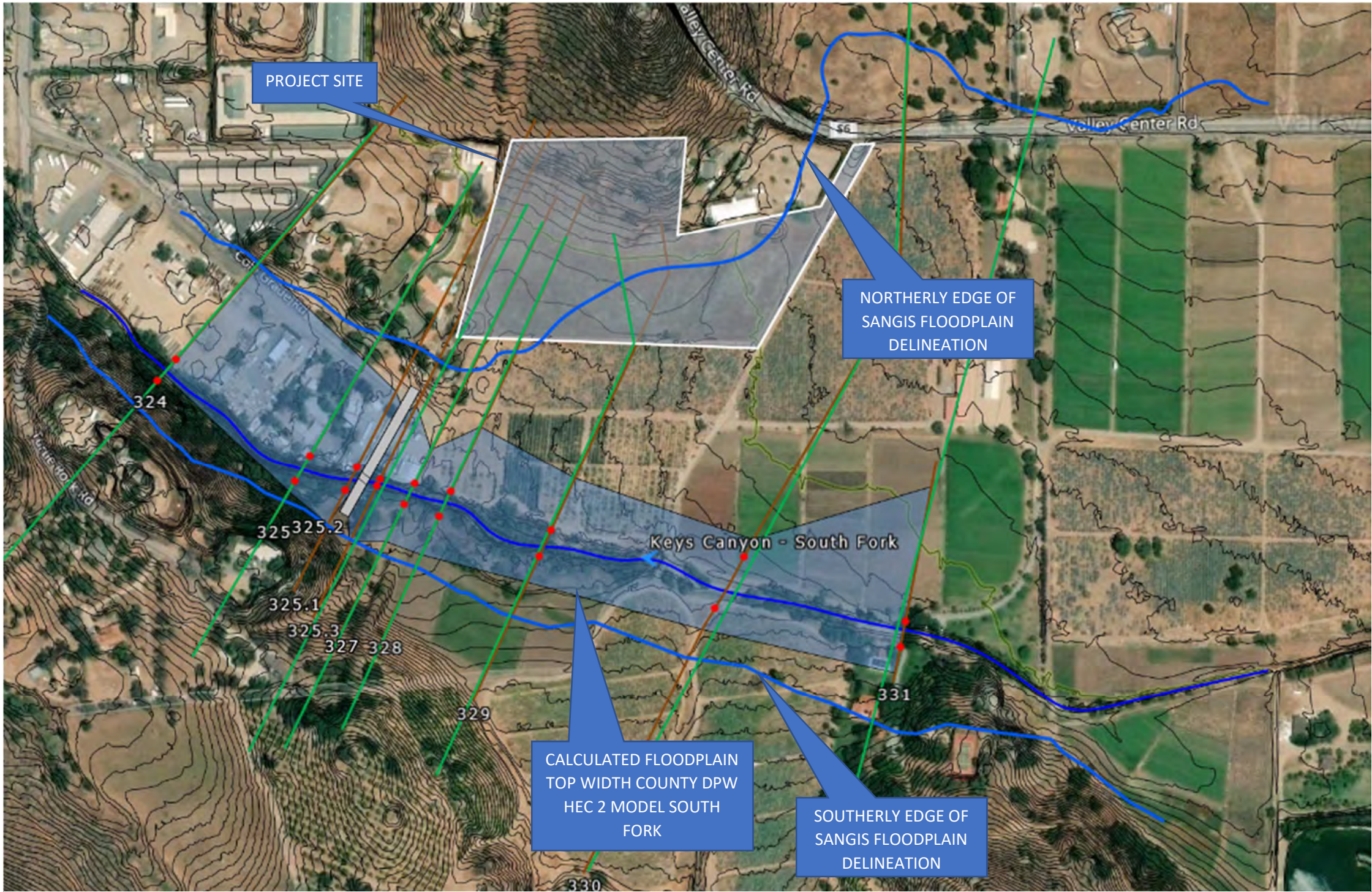


Figure 4 Comparison of County of SD DPW Computational Floodplain Versus SanGIS Delineation

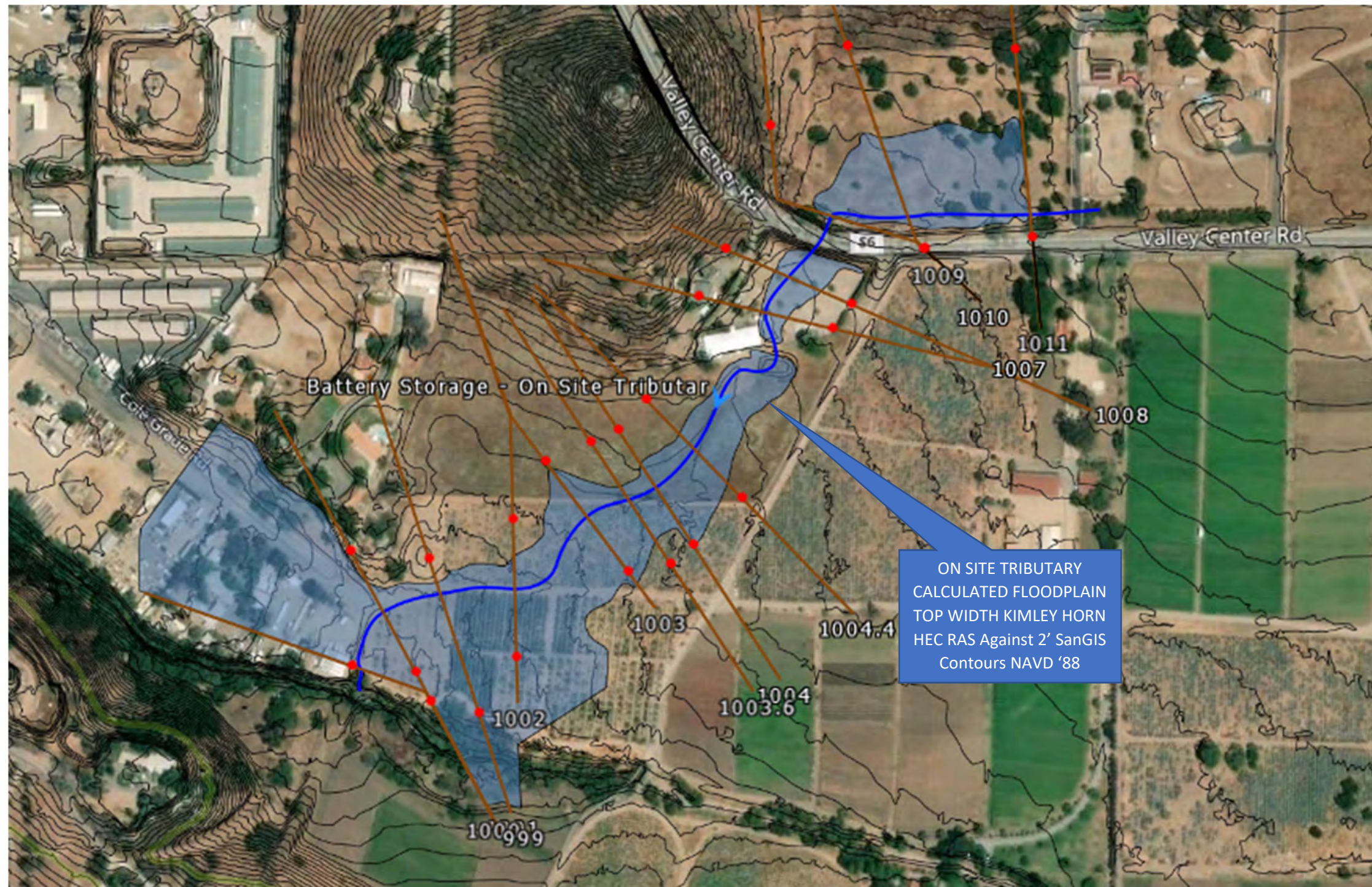


Figure 5 Computed Flood Limits of On-Site Tributary

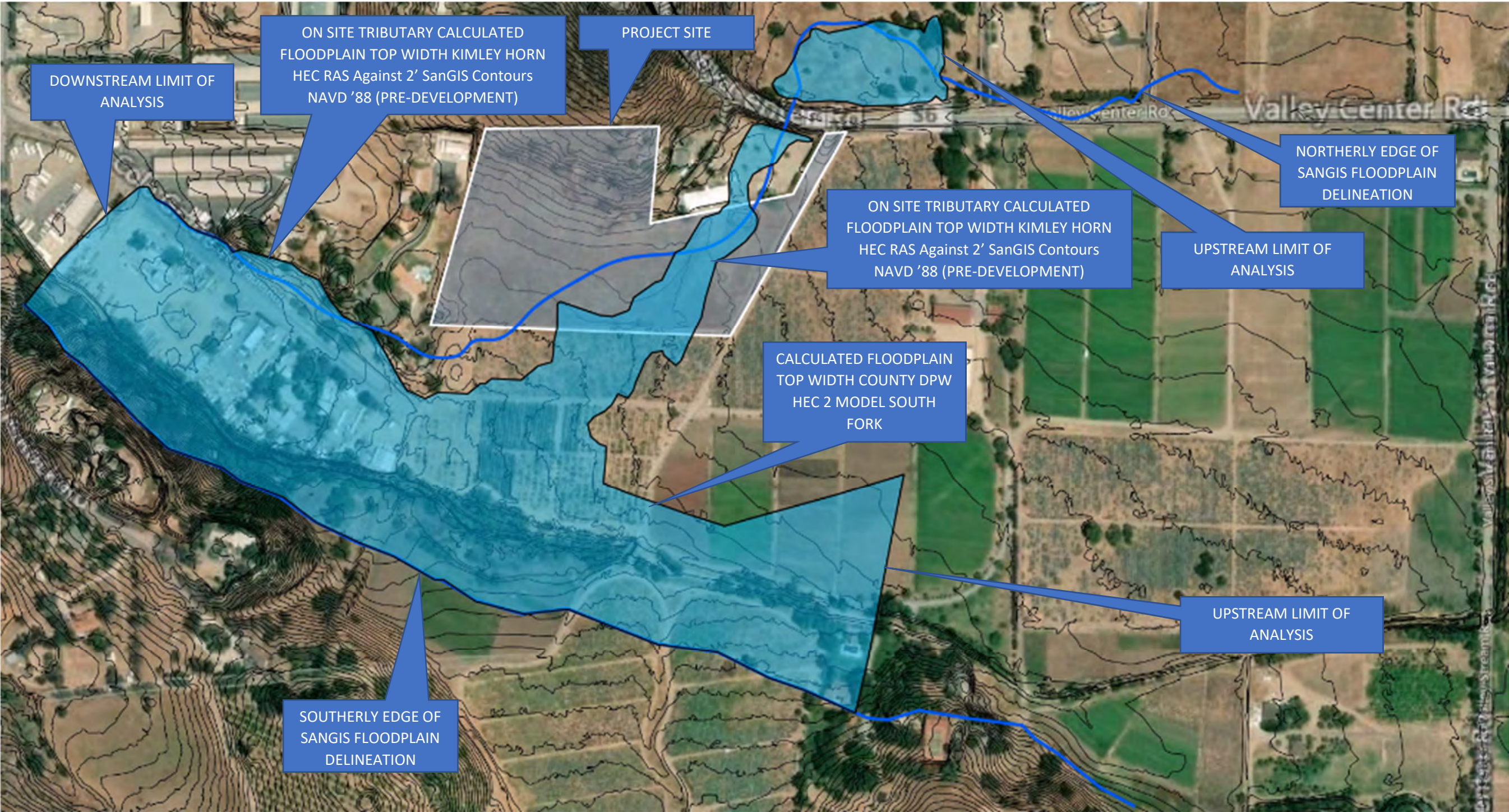


Figure 6 Composite Floodplain Delineation