

Flood Study for:
Atlanta Silverbacks Park
Indoor Soccer Facility



Prepared by:
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Prepared in conjunction with:
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Executive Summary

The Atlanta Silverbacks Park Indoor Soccer Facility is a proposed athletic complex development in DeKalb County Georgia. The complex will include modification of several existing soccer fields, relocation of an existing access drive, slight parking reconfiguration, utilities, and a new building housing an indoor soccer field. Development plans will include minor grading and building construction activities in the floodplain of North Fork Peachtree Creek, as well as some cut in the flood fringe. All development occurs in a placid zone heavily influenced by backwater effects of a culvert under Interstate 285. The area is designated “floodway” by the Federal Emergency Management Agency (FEMA) due to its use as a storage node in FEMA’s flood model.

The analysis presented herein shows that minor grading and construction activities associated with this development plan do not cause a rise in flood elevations beyond a 0.01 ft threshold. The project therefore fits DeKalb County’s criteria for “No Rise,” and meets requirements laid out within the DeKalb County land development ordinance.

This flood study was prepared by Campbell Civil Consulting, LLC, (CCC) in concert with site engineers from Breedlove Land Planning (Breedlove), and based on flood modeling modifications provided by Dewberry. CCC performed the hydrologic and hydraulic analysis of the creek, and authored the flood work map, while Breedlove provided the site design, and conveyed to CCC the survey and base information. It has been represented to CCC that the information provided is the best available data for use in the detailed flood analysis.

The design plans were engineered by Breedlove. Breedlove is the engineer of record for the site, and maintains responsible charge of the construction documents for the project, including both the plans and specifications. CCC maintains responsible charge only of the narrative and calculations presented within the flood study, unless otherwise noted. Breedlove engineers are responsible for confirming that the narrative and calculations presented within this study properly describe the engineering plans and specifications, and that those plans and specifications do not deviate from the assumptions within the flood study.

Overview

The **Atlanta Silverbacks Park Indoor Soccer Facility** is a proposed athletic complex modification at 3200 Atlanta Silverbacks Way, in DeKalb County GA. Most of the complex is in the floodplain of North Fork Peachtree Creek, although the southerly field is on a bluff overlooking the floodplain. The proposed development will include splitting the two easterly soccer fields, sliding one to the north, another to the south, and placing a proposed building between them to house an indoor soccer field. Additional office space will be provided on the second floor of the building. Other elements of the development include some minor access drive reconfiguration, minor parking reconfiguration, and utilities enhancements.

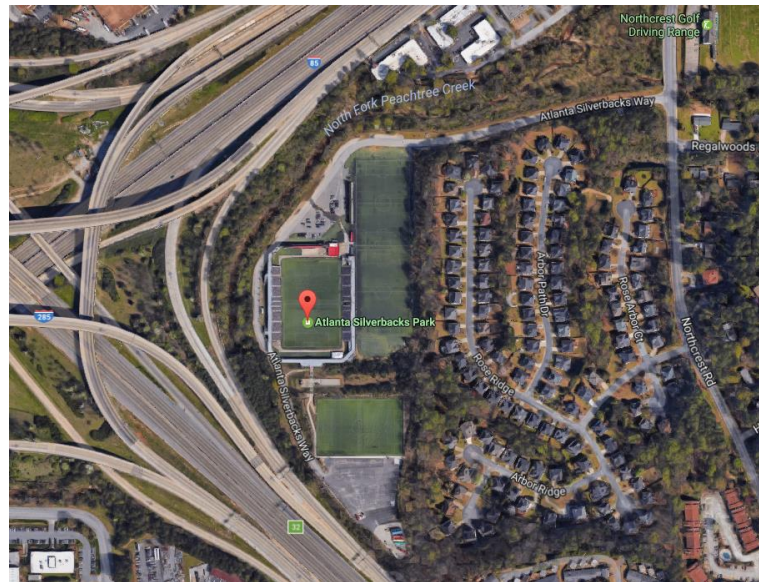


Figure 1: Location Map

The overall tract totals approximately 20.5 acres, and lays along approximately 1,000 linear feet of North Fork Peachtree Creek, upstream of a box culvert under Interstate 285.

Predevelopment Conditions:

The current site is a fully developed athletic complex, with two full sized, artificial turf practice soccer fields along the eastern side of the park, a 5,000 seat capacity soccer stadium on the western side of the park, and a multipurpose soccer/rugby field on the southern side, atop a high bluff overlooking the park. A residential subdivision borders the park to the east, and the park is bordered on the north, west, and south, by North Fork Peachtree Creek and the interchange between Interstate 285 and Interstate 85. The majority of the site lies within the floodplain of North Fork Peachtree Creek, including the existing stadium and existing open air concession building. Portions of the stadium under the stands, such as restroom and locker room facilities, are flood vented to allow flood waters to enter and pond freely within all structures.

The existing 100 year return flowrate at the project site is 6754 cfs, which creates a backwater condition at the I-285 culvert in excess of 22 feet, and a broad field of placid ponding upstream of the culvert at an elevation of approximately 912.43, roughly eight and a half feet above grade through the practice fields.

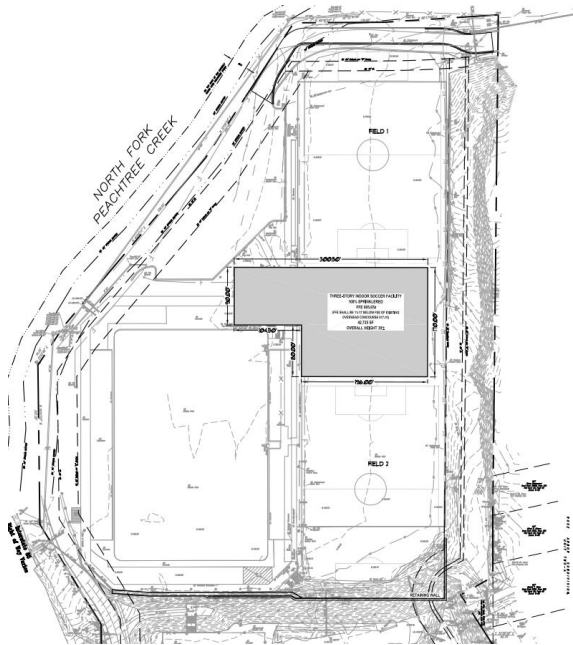


Figure 2: Proposed Development

Local Ordinance Requirements

For this project, DeKalb County ordinance requires two essential modeling components. The first modeling component is 1:1 volumetric compensation for fill in the floodplain, which will be shown by an analysis by Breedlove on the construction plans. The second is a hydraulic analysis of the revised development, showing new areas of flooding and proposed map changes due to development. The latter is then reviewed and approved by DeKalb, as part of the documentation that the project causes “No Rise.”

The DeKalb County ordinance specifies that the analysis must be performed on both the “current” 100 year floodplain and the “future use” 100 year floodplain. Output summary tables for both comparisons are included.

Post-Development Conditions:

The proposed development shall include a building, on some fill, within the floodplain areas of the project. It will also include further blasting out the rock embankment along the southern portion of the floodplain, both to provide compensatory volume and to extend the existing soccer field to the south. An analysis of cut and fill within the floodplain is being undertaken by Breedlove, and is referenced on the construction plan set. It indicates that volumetric compensation provided in this and prior phases exceeds net fill by 25 cubic yards. A site plan by Breedlove is attached to this document for reference.

Analysis:

The effective flood model for the site was not available through FEMA, nor through the county, nor the county’s consultant Dewberry. Dewberry did, however, have the newly created model which will be submitted to FEMA presently, and may become preliminary by the end of 2017. As the county’s consultant, Dewberry is acting as steward for this model’s adoption, hopefully within the year.

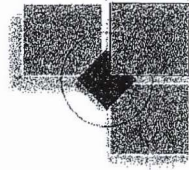
CCC obtained this model, and upon review, discovered a slight discrepancy at one section (48896) within it. This section cut through the proposed building, so is vital to the project. The Dewberry 2017 model showed two obstructions in this section, one for each of the east and west stands where the section bisects the stands, but the ineffective flow areas shown in the model did not properly coincide with the obstruction locations. Dewberry was enthusiastic to correct this discrepancy, and provided CCC and the Silverbacks with a “Corrected” model, with which to base our flood analysis. In this model, the

obstructions were modified to more accurately reflect field conditions, and the ineffective flow area was moved to the west to account for the placid area of flooding between the stands. As this model is not yet “effective,” this report refers to it simply as the “corrected model.” By agreement with DeKalb County, and based in part on guidance from Dewberry, CCC based the flood study on this “corrected model.”

To build the “proposed model,” CCC simply added the building and associated fill to the affected section of the corrected model and re-ran the flood analysis. Because all modified areas of floodplain are within an ineffective flow area, no change in water surface elevation at any section was identified in the model. Summary tables of all modeling are attached, showing water surface profile comparisons. The digital model shall also be submitted to DeKalb County for review.

Recommendations:

Campbell Civil Consulting feels confident that the proposed project meets the letter and intent of the DeKalb County Flood Ordinance’s criteria for “No Rise,” and recommends approval of the project. Backup data and mapping is provided to support this conclusion, and a digital model will be provided to DeKalb County for review.



*****ENGINEER'S CERTIFICATE*****

FLOOD PLAINS

I, Robert C. Campbell Jr.

a registered professional engineer in the State of Georgia, hereby certify with my signature and seal, that the grading and drainage plans for the project known as Atlanta Silverbacks Park Indoor Soccer Facility

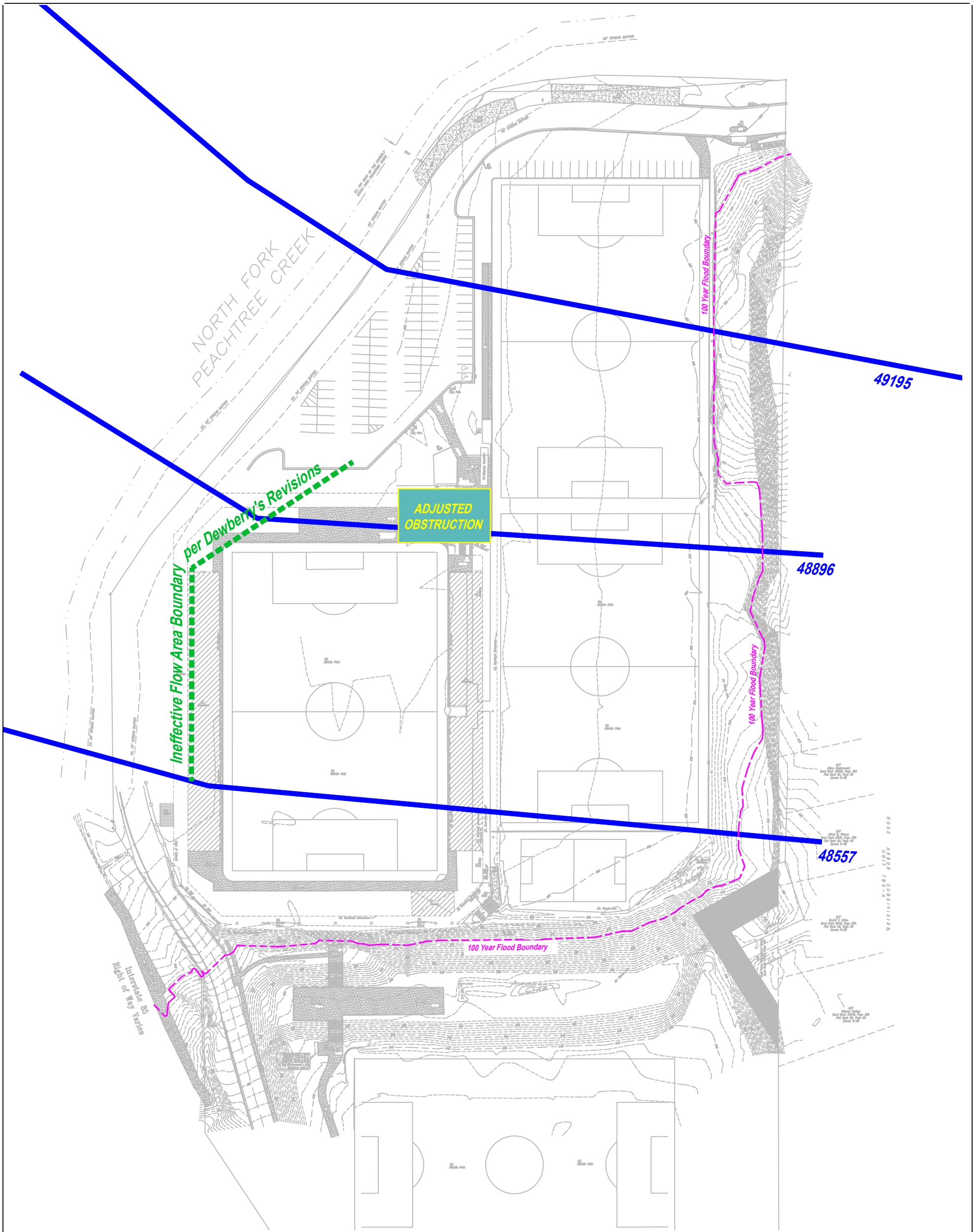
Development Permit # _____ lying in Land Lot 294 , of the 18th District, Dekalb County, have been reviewed under my supervision, and state that, in my opinion, the execution of said plans has not diminished the natural storage capacity of the adjacent flood plain, nor caused any increase in the flood levels of the Base Flood (IRF – 100 Year Flood), and is in compliance with the Dekalb County Land Development Ordinance.

This the 21st day of February 2017 .

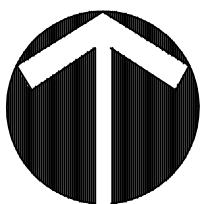


Signature: [Handwritten Signature]
Georgia Registration No. 030028

Appendix A: Maps and Sections



SCALE IN FEET
1 INCH = 100 FEET IF PLOTTED AT 11X17



Map

1

Flood Work Map

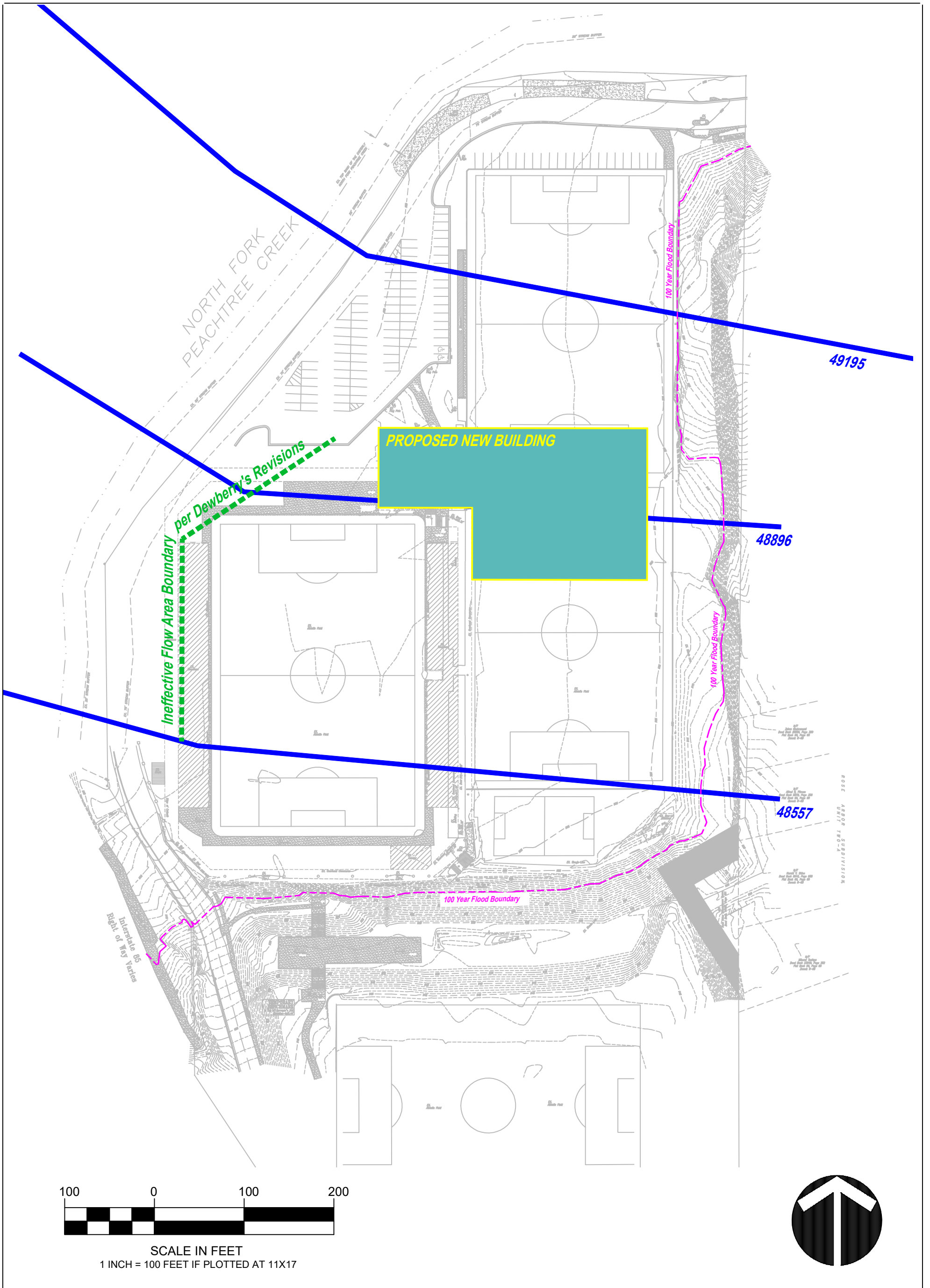
Silverbacks Park Indoor Soccer Facility
"Corrected" showing Dewberry's Revisions

Revisions: _____ Date: _____

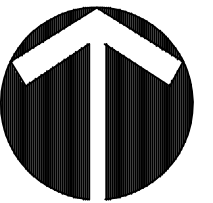
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SCALE IN FEET
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Map
2

Flood Work Map

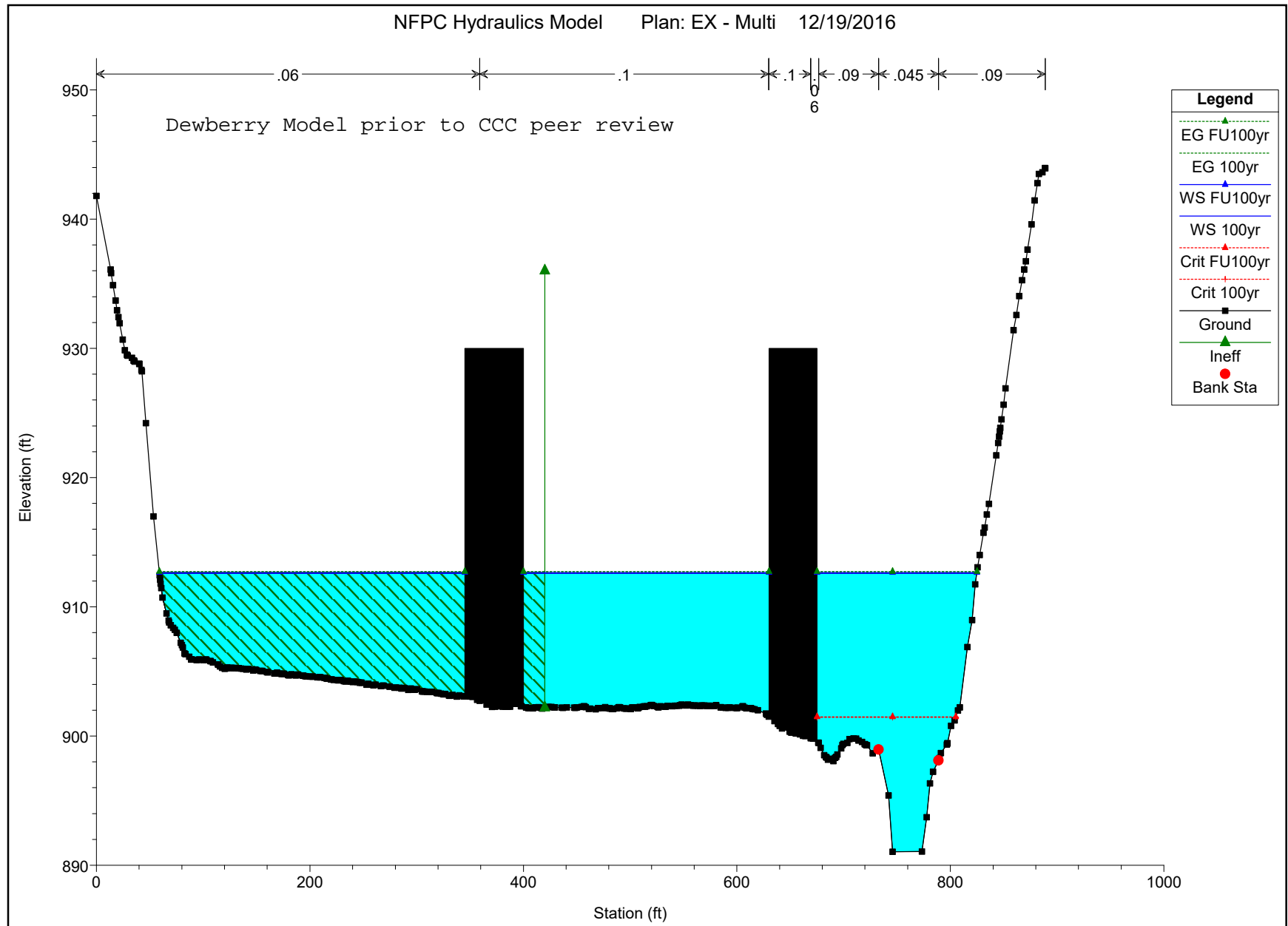
Silverbacks Park Indoor Soccer Facility
"Revised" showing the proposed development

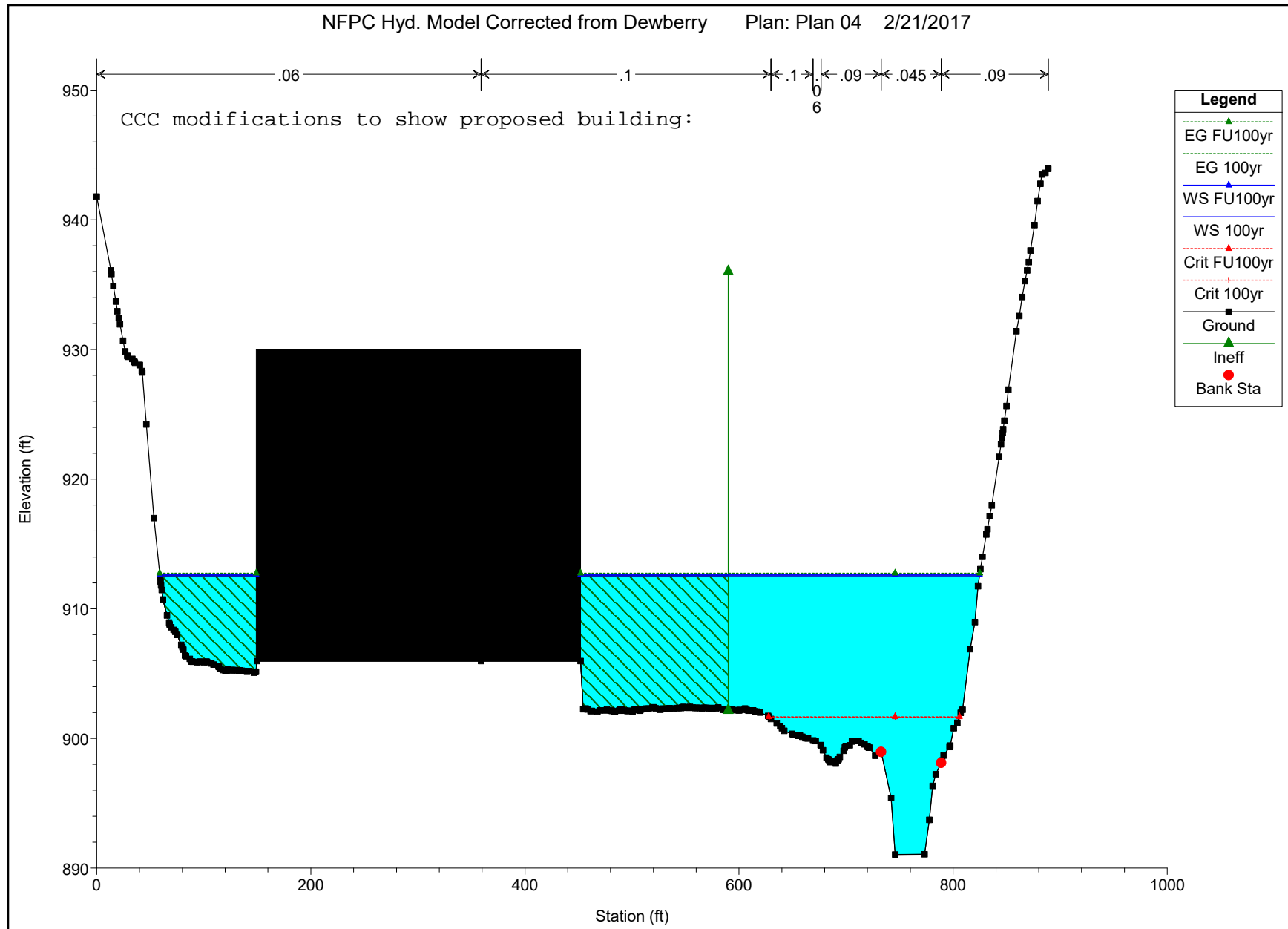
Revision:	Date:

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Appendix B: Flood Profile Results

River Station			Dewberry "Corrected" Model										CCC "Proposed" Model										Delta W.S. (ft)	
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	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		
Main	58850	100yr	2308.54	927.39	936.54		936.71	0.001367	4.3	1084.59	267.67	0.29	2308.54	927.39	936.54		936.71	0.001367	4.3	1084.59	267.67	0.29	0	
Main	58850	FU100yr	2308.54	927.39	936.54		936.71	0.001367	4.3	1084.58	267.67	0.29	2308.54	927.39	936.54		936.71	0.001367	4.3	1084.58	267.67	0.29	0	
Main	58513	100yr	2308.54	926.11	932.94	932.94	935.37	0.01673	12.58	191.42	45.13	0.96	2308.54	926.11	932.94	932.94	935.37	0.01673	12.58	191.42	45.13	0.96	0	
Main	58513	FU100yr	2308.54	926.11	932.94	932.94	935.37	0.016727	12.58	191.43	45.14	0.96	2308.54	926.11	932.94	932.94	935.37	0.016727	12.58	191.43	45.14	0.96	0	
Main	58168	100yr	2308.54	923.55	929.81		930.34	0.003886	6.21	563.21	210.67	0.46	2308.54	923.55	929.81		930.34	0.003886	6.21	563.21	210.67	0.46	0	
Main	58168	FU100yr	2308.54	923.55	929.81		930.34	0.003891	6.22	562.9	210.65	0.46	2308.54	923.55	929.81		930.34	0.003891	6.22	562.9	210.65	0.46	0	
Main	57761	100yr	2308.54	920.84	929.51		929.59	0.000801	3.15	1563.08	388.95	0.22	2308.54	920.84	929.51		929.59	0.000801	3.15	1563.08	388.95	0.22	0	
Main	57761	FU100yr	2308.54	920.84	929.51		929.59	0.000802	3.15	1562.27	388.94	0.22	2308.54	920.84	929.51		929.59	0.000802	3.15	1562.27	388.94	0.22	0	
Main	57518	100yr	2308.54	918.72	929.28		929.42	0.0006	3.66	1414.09	350.44	0.2	2308.54	918.72	929.28		929.42	0.0006	3.66	1414.09	350.44	0.2	0	
Main	57518	FU100yr	2308.54	918.72	929.27		929.41	0.000601	3.66	1413.25	350.25	0.2	2308.54	918.72	929.27		929.41	0.000601	3.66	1413.25	350.25	0.2	0	
Main	57393	100yr	2308.54	918.72	929.25		929.34	0.000367	2.71	1518.33	367.38	0.16	2308.54	918.72	929.25		929.34	0.000367	2.71	1518.33	367.38	0.16	0	
Main	57393	FU100yr	2308.54	918.72	929.25		929.34	0.000367	2.71	1517.43	367.32	0.16	2308.54	918.72	929.25		929.34	0.000367	2.71	1517.43	367.32	0.16	0	
Main	57315	100yr	2217.1	918.92	928.9	924.02	929.2	0.001121	4.66	616.94	384.11	0.27	2217.1	918.92	928.9	924.02	929.2	0.001121	4.66	616.94	384.11	0.27	0	
Main	57315	FU100yr	2217.1	918.92	928.9	924.02	929.19	0.001122	4.66	616.72	384.08	0.27	2217.1	918.92	928.9	924.02	929.19	0.001122	4.66	616.72	384.08	0.27	0	
Main	57269	Seasons Pkwy NW																						
Main	57206	100yr	2217.1	913.92	923.03	918.96	923.36	0.001483	4.55	491.53	72.86	0.3	2217.1	913.92	923.03	918.96	923.36	0.001483	4.55	491.53	72.86	0.3	0	
Main	57206	FU100yr	2217.1	913.92	923.03	918.96	923.36	0.001483	4.55	491.55	72.86	0.3	2217.1	913.92	923.03	918.96	923.36	0.001483	4.55	491.55	72.86	0.3	0	
Main	57013	100yr	2217.1	913.29	922.2		922.82	0.002878	6.34	374.4	118.65	0.42	2217.1	913.29	922.2		922.82	0.002878	6.34	374.4	118.65	0.42	0	
Main	57013	FU100yr	2217.1	913.29	922.2		922.82	0.002877	6.34	374.45	118.67	0.42	2217.1	913.29	922.2		922.82	0.002877	6.34	374.45	118.67	0.42	0	
Main	56832	100yr	2217.1	912.67	922.09		922.4	0.001233	4.56	595.78	225.68	0.28	2217.1	912.67	922.09		922.4	0.001233	4.56	595.78	225.68	0.28	0	
Main	56832	FU100yr	2217.1	912.67	922.09		922.4	0.001233	4.56	595.87	225.71	0.28	2217.1	912.67	922.09		922.4	0.001233	4.56	595.87	225.71	0.28	0	
Main	56455	100yr	2363.43	911.24	921.68		921.94	0.00113	4.3	763.33	245.47	0.26	2363.43	911.24	921.68		921.94	0.00113	4.3	763.33	245.47	0.26	0	
Main	56455	FU100yr	2363.69	911.24	921.68		921.95	0.00113	4.3	763.44	245.49	0.26	2363.69	911.24	921.68		921.95	0.00113	4.3	763.44	245.49	0.26	0	
Main	56277	100yr	2363.43	910.64	921.24		921.67	0.001946	5.3	483.26	120.75	0.34	2363.43	910.64	921.24		921.67	0.001946	5.3	483.26	120.75	0.34	0	
Main	56277	FU100yr	2363.69	910.64	921.24		921.67	0.001946	5.3	483.3	120.8	0.34	2363.69	910.64	921.24		921.67	0.001946	5.3	483.3	120.8	0.34	0	
Main	55890	100yr	2363.43	909.34	918.55	917.23	920.15	0.009066	10.21	273.62	155.98	0.7	2363.43	909.34	918.55	917.23	920.15	0.009066	10.21	273.62	155.98	0.7	0	
Main	55890	FU100yr	2363.69	909.34	918.56	917.23	920.15	0.009065	10.21	273.72	156.05	0.7	2363.69	909.34	918.56	917.23	920.15	0.009065	10.21	273.72	156.05	0.7	0	
Main	55592	100yr	2363.43	908.06	917.2	914.76	918.07	0.004563	7.56	375.61	239.28	0.52	2363.43	908.06	917.2	914.76	918.07	0.004563	7.56	375.61	239.28	0.52	0	
Main	55592	FU100yr	2363.69	908.06	917.22	914.77	918.08	0.00452	7.54	379.35	241.64	0.51	2363.69	908.06	917.22	914.77	918.08	0.00452	7.54	379.35	241.64	0.51	0	
Main	55240	100yr	2363.43	906.21	917.23		917.31	0.000708	3.26	1780.9	597.19	0.2	2363.43	906.21	917.23		917.31	0.000708	3.26	1780.9	597.19	0.2	0	
Main	55240	FU100yr	2363.69	906.21	917.25		917.33	0.000696	3.23	1792.57	597.44	0.2	2363.69	906.21	917.25		917.33	0.000696	3.23	1792.57	597.44	0.2	0	
Main	54753	100yr	2363.43	904.03	917.18		917.19	0.000101	1.35	3529.89	683	0.08	2363.43	904.03	917.18		917.19	0.000101	1.35	3529.89	683	0.08	0	
Main	54753	FU100yr	2363.69	904.03	917.2		917.21	0.0001	1.34	3543.44	683.15	0.08	2363.69	904.03	917.2		917.21	0.0001	1.34	3543.44	683.15	0.08	0	
Main	54462	100yr	2363.43	902.82	917.16		917.17	0.000057	1.06	5657.45	1024.58	0.05	2363.43	902.82	917.16		917.17	0.000057	1.06	5657.45	1024.58	0.05	0	
Main	54462	FU100yr	2363.69	902.82	917.18		917.19	0.000056	1.06	5677.97	1024.86	0.05	2363.69	902.82	917.18		917.19	0.000056	1.06	5677.97	1024.86	0.05	0	
Main	54145	100yr	2363.43	901.78	917.15		917.15	0.000034	0.93	6454.48	1253.5	0.05	2363.43	901.78	917.15		917.15	0.000034	0.93	6454.48	1253.5	0.05	0	
Main	54145	FU100yr	2363.69	901.78	917.17		917.17	0.000033	0.92	6479.82	1254.92	0.05	2363.69	901.78	917.17		917.17	0.000033	0.92	6479.82	1254.92	0.05	0	
Main	53737	100yr	2363.43	901.63	917.13	907.86	917.14	0.000042	1.08	4646.75	761.9	0.06	2363.43	901.63	917.13	907.86	917.14	0.000042	1.08	4646.75	761.9	0.06	0	
Main	53737	FU100yr	2363.69	901.63	917.15	907.85	917.16	0.000042	1.08	4661.06	763.89	0.05	2363.69	901.63	917.15	907.85	917.16	0.000042	1.08	4661.06	763.89	0.05	0	
Main	53602	100yr	4582.86	901.44	917.09	911.18	917.12	0.000157	2.16	4793.7	749.61	0.1	4582.86	901.44	917.09	911.18	917.12	0.000157	2.16	4793.7	749.61	0.1	0	
Main	53602	FU100yr	4592.2	901.44	917.11	911.19	917.14	0.000156	2.16	4809.13	754.93	0.1	4592.2	901.44	917.11	911.19	917.14	0.000156	2.16	4809.13	754.93	0.1	0	
Main	53504	Pleasantdale Rd																						
Main	53421	100yr	4582.86	898.78	914.07	906.09	914.22	0.000463	3.61	2363.76	468.01	0.18	4582.86	898.78	914.07	906.09	914.22	0.000463	3.61	2363.76	468.01	0.18	0	
Main	53421	FU100yr	4592.2	898.78	914.12	906.11	914.26	0.000456	3.59	2385.55	469.66	0.18	4592.2	898.78	914.12	906.11	914.26	0.000456	3.59	2385.55	469.66	0.18		

River Station			Dewberry "Corrected" Model											CCC "Proposed" Model											Delta W.S. (ft)	
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	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				
Main	51204	FU100yr	6791.9	896.68	912.97	904.61	912.98	0.000036	1.05	9436.83	1000.23	0.05	6791.9	896.68	912.97	904.61	912.98	0.000036	1.05	9436.83	1000.23	0.05	0			
Main	51080	100yr	6754.07	895.73	912.83	906.16	912.88	0.000241	2.99	4724.25	987.39	0.13	6754.07	895.73	912.83	906.16	912.88	0.000241	2.99	4724.25	987.39	0.13	0			
Main	51080	FU100yr	6791.9	895.73	912.9	906.2	912.96	0.000233	2.95	4798.53	989.96	0.13	6791.9	895.73	912.9	906.2	912.96	0.000233	2.95	4798.53	989.96	0.13	0			
Main	51011	Northcrest Rd	Mult Open											Mult Open												
Main	50885	100yr	6754.07	894.8	912.85	905.92	912.87	0.000132	2.2	7699.76	976.93	0.1	6754.07	894.8	912.85	905.92	912.87	0.000132	2.2	7699.76	976.93	0.1	0			
Main	50885	FU100yr	6791.9	894.8	912.91	905.92	912.94	0.00013	2.19	7767.05	977.86	0.1	6791.9	894.8	912.91	905.92	912.94	0.00013	2.19	7767.05	977.86	0.1	0			
Main	50672	100yr	6754.07	893.98	912.83	903.95	912.84	0.000086	1.77	8382.98	1297.57	0.08	6754.07	893.98	912.83	903.95	912.84	0.000086	1.77	8382.98	1297.57	0.08	0			
Main	50672	FU100yr	6791.9	893.98	912.89	903.96	912.91	0.000085	1.77	8450.88	1307.98	0.08	6791.9	893.98	912.89	903.96	912.91	0.000085	1.77	8450.88	1307.98	0.08	0			
Main	50288	100yr	6754.07	893.14	912.79	901.93	912.81	0.000085	1.81	5897.51	874.24	0.08	6754.07	893.14	912.79	901.93	912.81	0.000085	1.81	5897.51	874.24	0.08	0			
Main	50288	FU100yr	6791.9	893.14	912.86	901.94	912.88	0.000084	1.8	5958.51	874.61	0.08	6791.9	893.14	912.86	901.94	912.88	0.000084	1.8	5958.51	874.61	0.08	0			
Main	49949	100yr	6754.07	892.18	912.77	901.35	912.79	0.000049	1.42	6433.68	851.96	0.06	6754.07	892.18	912.77	901.35	912.79	0.000049	1.42	6433.68	851.96	0.06	0			
Main	49949	FU100yr	6791.9	892.18	912.84	901.36	912.86	0.000048	1.41	6493.39	852.2	0.06	6791.9	892.18	912.84	901.36	912.86	0.000048	1.41	6493.39	852.2	0.06	0			
Main	49578	100yr	6754.07	891.72	912.73	897.74	912.76	0.000069	1.98	5313.14	702.54	0.08	6754.07	891.72	912.73	897.74	912.76	0.000069	1.98	5313.14	702.54	0.08	0			
Main	49578	FU100yr	6791.9	891.72	912.8	897.74	912.83	0.000068	1.97	5342.84	703.62	0.08	6791.9	891.72	912.8	897.74	912.83	0.000068	1.97	5342.84	703.62	0.08	0			
Atlanta Silverbacks Park Sections:																										
Main	49195	100yr	6754.07	891.41	912.7	901.94	912.73	0.000087	2.11	5775.57	784.09	0.08	6754.07	891.41	912.7	901.94	912.73	0.000087	2.11	5775.57	784.09	0.08	0			
Main	49195	FU100yr	6791.9	891.41	912.77	901.98	912.8	0.000086	2.1	5812.45	787.38	0.08	6791.9	891.41	912.77	901.98	912.8	0.000086	2.1	5812.45	787.38	0.08	0			
Main	48896	100yr	6754.07	891.05	912.55	901.62	912.68	0.000267	3.66	3149.22	658.45	0.15	6754.07	891.05	912.55	901.62	912.68	0.000267	3.66	3149.22	658.45	0.15	0			
Main	48896	FU100yr	6791.9	891.05	912.62	901.67	912.75	0.000266	3.66	3165.79	658.67	0.15	6791.9	891.05	912.62	901.67	912.75	0.000266	3.66	3165.79	658.67	0.15	0			
Main	48557	100yr	6754.07	890.26	912.43	900.75	912.59	0.00028	3.93	2976.33	691.58	0.15	6754.07	890.26	912.43	900.75	912.59	0.00028	3.93	2976.33	691.58	0.15	0			
Main	48557	FU100yr	6791.9	890.26	912.5	900.79	912.66	0.000279	3.93	2991.63	692	0.15	6791.9	890.26	912.5	900.79	912.66	0.000279	3.93	2991.63	692	0.15	0			
Main	48460	100yr	4974.59	890.12	912.43	898.89	912.54	0.000186	3.2	2545.28	331.13	0.12	4974.59	890.12	912.43	898.89	912.54	0.000186	3.2	2545.28	331.13	0.12	0			
Main	48460	FU100yr	4990.27	890.12	912.5	898.91	912.61	0.000184	3.19	2558.69	331.73	0.12	4990.27	890.12	912.5	898.91	912.61	0.000184	3.19	2558.69	331.73	0.12	0			
Main	48343	Interstate 285	Culvert											Culvert												
Main	47628	100yr	4974.59	887.52	903.75	894.95	904.01	0.000729	5.21	1416.8	188.43	0.23	4974.59	887.52	903.75	894.95	904.01	0.000729	5.21	1416.8	188.43	0.23	0			
Main	47628	FU100yr	4990.27	887.52	903.77	894.96	904.03	0.000731	5.22	1418.37	188.6	0.24	4990.27	887.52	903.77	894.96	904.03	0.000731	5.22	1418.37	188.6	0.24	0			
Main	47534	100yr	4974.59	887.27	902.99	898.71	903.73	0.003076	7.17	762.38	213.52	0.43	4974.59	887.27	902.99	898.71	903.73	0.003076	7.17	762.38	213.52	0.43	0			
Main	47534	FU100yr	4990.27	887.27	903.01	898.72	903.75	0.003066	7.17	765.09	213.86	0.43	4990.27	887.27	903.01	898.72	903.75	0.003066	7.17	765.09	213.86	0.43	0			
Main	47319	100yr	4974.59	886.73	902.91		903.24	0.001087	5.16	1189.54	233.41	0.26	4974.59	886.73	902.91		903.24	0.001087	5.16	1189.54	233.41	0.26	0			
Main	47319	FU100yr	4990.27	886.73	902.93		903.26	0.001084	5.16	1193.85	233.75	0.26	4990.27	886.73	902.93		903.26	0.001084	5.16	1193.85	233.75	0.26	0			
Main	46956	100yr	4974.59	886.24	901.73		902.6	0.002681	7.63	709.61	145.5	0.4	4974.59	886.24	901.73		902.6	0.002681	7.63	709.61	145.5	0.4	0			
Main	46956	FU100yr	4990.27	886.24	901.75		902.62	0.002675	7.63	712.55	145.64	0.4	4990.27	886.24	901.75		902.62	0.002675	7.63	712.55	145.64	0.4	0			
Main	46851	100yr	4974.59	885.9	901.52	896.8	902.28	0.002453	7.44	859.32	186.74	0.4	4974.59	885.9	901.52	896.8	902.28	0.002453	7.44	859.32	186.74	0.4	0			
Main	46851	FU100yr	4990.27	885.9	901.54	896.82	902.3	0.002444	7.43	863.38	186.91	0.4	4990.27	885.9	901.54	896.82	902.3	0.002444	7.43	863.38	186.91	0.4	0			
Main	46776	Presidential Pkw	Bridge											Bridge												
Main	46730	100yr	4974.59	886.47	898.73	898.46	902.26	0.016684	15.08	330.55	44.19	0.95	4974.59	886.47	898.73	898.46	902.26	0.016684	15.08	330.55	44.19	0.95	0			
Main	46730	FU100yr	4990.27	886.47	898.73	898.47	902.28	0.016772	15.12	330.66	44.19	0.95	4990.27	886.47	898.73	898.47	902.28	0.016772	15.12	330.66	44.19	0.95	0			
Main	46586	100yr	4974.59	885.61	899.4		900.05	0.002558	6.63	854.91	288.98	0.4	4974.59	885.61	899.4		900.05	0.002558	6.63	854.91	288.98	0.4	0			
Main	46586	FU100yr	4990.27	885.61	899.41		900.06	0.002558	6.64	858.13	289.39	0.4	4990.27	885.61	899.41		900.06	0.002558	6.64	858.13	289.39	0.4	0			
Main	46226	100yr	5089.88	884.22	898.9		899.32	0.00141	5.74	1088.92	256.34	0.3	5089.88	884.22	898.9		899.32	0.00141	5.74	1088.92	256.34	0.3	0			
Main	46226	FU100yr	5107.21	884.22	898.91		899.33	0.001411	5.75	1091.69	256.56	0.3	5107.21	884.22	898.91		899.33	0.001411	5.75	1091.69	256.56	0.3	0			
Main	45840	100yr	5089.88	883.31	898.28		898.76	0.00147	5.83	1094.75	263.35	0.31	5089.88	883.31	898.28		898.76	0.00147	5.83	1094.75	263.35	0.31	0			
Main	45840	FU100yr	5107.21	883.31	898.29		898.77	0.001475	5.84	1097.02	269.24	0.31	5107.21	883.31	898.29		898.77	0.001475	5.84	1097.02	269.24	0.31	0			
Main	45699	100yr	5089.88	882.64	898.05	891.44	898.52	0.001902	5.79	1045.67	444.95	0.34	5089.88	882.64	898.05	891.44	898.52	0.001902	5.79	1045.67	444.95	0.34	0			
Main	45699	FU100yr	5107.21	882.64	898.06	891.46	898.53	0.001903	5.79	1048.82	446.15	0.34	5107.21	882.64	898.06	891.46	898.53	0.001903	5.79	1048.82	446.15	0.34	0			
Main	45610	Presidential Dr	Bridge											Bridge												
Main	45565	100yr	5089.88	880	896.63	891.31	897.84	0.003776	8.85	590.12	80.91	0.47	5089.88	880	896.63	891.31	897.84	0.003776	8.85	590.12	80.91	0.47	0			
Main	45565	FU100yr</																								

River Station			Dewberry "Corrected" Model										CCC "Proposed" Model										Delta W.S. (ft)	
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	L.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	L.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl		
Main	44269	FU100yr	5107.21	878.9	894.43		894.76	0.00118	5.6	1634.09	389.64	0.28	5107.21	878.9	894.43		894.76	0.00118	5.6	1634.09	389.64	0.28	0	
Main	43995	100yr	5089.88	878.64	894.43	889.27	894.5	0.000332	2.9	3195.42	678.28	0.15	5089.88	878.64	894.43	889.27	894.5	0.000332	2.9	3195.42	678.28	0.15	0	
Main	43995	FU100yr	5107.21	878.64	894.46	889.26	894.53	0.00033	2.9	3213.35	678.89	0.15	5107.21	878.64	894.46	889.26	894.53	0.00033	2.9	3213.35	678.89	0.15	0	
Main	43630	100yr	7212.55	878.03	894.37		894.4	0.000218	2.39	6858.26	1351.49	0.12	7212.55	878.03	894.37		894.4	0.000218	2.39	6858.26	1351.49	0.12	0	
Main	43630	FU100yr	7246.08	878.03	894.39		894.42	0.000216	2.38	6894.65	1351.92	0.12	7246.08	878.03	894.39		894.42	0.000216	2.38	6894.65	1351.92	0.12	0	
Main	43222	100yr	7212.55	875.55	894.02		894.23	0.000656	4.67	3734.39	995.19	0.22	7212.55	875.55	894.02		894.23	0.000656	4.67	3734.39	995.19	0.22	0	
Main	43222	FU100yr	7246.08	875.55	894.05		894.26	0.000651	4.66	3763.92	995.44	0.22	7246.08	875.55	894.05		894.26	0.000651	4.66	3763.92	995.44	0.22	0	
Main	42843	100yr	7212.55	874.95	893.84		894	0.000507	4.24	3542.88	687.4	0.19	7212.55	874.95	893.84		894	0.000507	4.24	3542.88	687.4	0.19	0	
Main	42843	FU100yr	7246.08	874.95	893.87		894.03	0.000506	4.24	3563.53	687.88	0.19	7246.08	874.95	893.87		894.03	0.000506	4.24	3563.53	687.88	0.19	0	
Main	42400	100yr	7212.55	874.22	893.28		893.67	0.001055	5.87	1923.35	284.92	0.27	7212.55	874.22	893.28		893.67	0.001055	5.87	1923.35	284.92	0.27	0	
Main	42400	FU100yr	7246.08	874.22	893.31		893.7	0.001053	5.87	1932.05	285.1	0.27	7246.08	874.22	893.31		893.7	0.001053	5.87	1932.05	285.1	0.27	0	
Main	42017	100yr	6995.72	874.14	892.98		893.29	0.000825	5.18	2227.58	256.06	0.24	6995.72	874.14	892.98		893.29	0.000825	5.18	2227.58	256.06	0.24	0	
Main	42017	FU100yr	7036.6	874.14	893.01		893.32	0.000828	5.2	2235.04	256.29	0.24	7036.6	874.14	893.01		893.32	0.000828	5.2	2235.04	256.29	0.24	0	
Main	41823	100yr	6995.72	873.78	892.32	886.72	892.98	0.001507	7.57	1302.76	241.54	0.33	6995.72	873.78	892.32	886.72	892.98	0.001507	7.57	1302.76	241.54	0.33	0	
Main	41823	FU100yr	7036.6	873.78	892.35	886.78	893.01	0.00151	7.58	1309.64	241.81	0.34	7036.6	873.78	892.35	886.78	893.01	0.00151	7.58	1309.64	241.81	0.34	0	
Main	41684	Chamblee Tucker																						

River Station			Dewberry "Corrected" Model										CCC "Proposed" Model										Delta W.S. (ft)	
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(Cnl) (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Cnl	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(Cnl) (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Cnl		
Main	36712	100Yr	8952.83	864.13	883.4	874.75	883.43	0.000143	2.23	9093.23	904.48	0.1	8952.83	864.13	883.4	874.75	883.43	0.000143	2.23	9093.23	904.48	0.1	0	
Main	36712	FU100Yr	9009.39	864.13	883.46	874.7	883.49	0.000142	2.23	9143.23	905.94	0.1	9009.39	864.13	883.46	874.7	883.49	0.000142	2.23	9143.23	905.94	0.1	0	
Main	36354	100Yr	8952.83	863.14	883.29		883.35	0.000296	3.25	5867.53	519.68	0.15	8952.83	863.14	883.29		883.35	0.000296	3.25	5867.53	519.68	0.15	0	
Main	36354	FU100Yr	9009.39	863.14	883.34		883.41	0.000295	3.25	5897.14	520.03	0.15	9009.39	863.14	883.34		883.41	0.000295	3.25	5897.14	520.03	0.15	0	
Main	36005	100Yr	14778.39	862.56	882.54		883.07	0.001419	7.49	3811.74	400.71	0.33	14778.39	862.56	882.54		883.07	0.001419	7.49	3811.74	400.71	0.33	0	
Main	36005	FU100Yr	14866.84	862.56	882.6		883.13	0.001413	7.5	3835.06	401.75	0.33	14866.84	862.56	882.6		883.13	0.001413	7.5	3835.06	401.75	0.33	0	
Main	35648	100Yr	14778.39	861.73	882.69		882.75	0.00026	3.24	10840.35	1043.04	0.14	14778.39	861.73	882.69		882.75	0.00026	3.24	10840.35	1043.04	0.14	0	
Main	35648	FU100Yr	14866.84	861.73	882.75		882.8	0.000259	3.24	10901.77	1044.42	0.14	14866.84	861.73	882.75		882.8	0.000259	3.24	10901.77	1044.42	0.14	0	
Main	35371	100Yr	14778.39	860.69	882.67		882.69	0.000105	2.16	13815.32	1161.84	0.09	14778.39	860.69	882.67		882.69	0.000105	2.16	13815.32	1161.84	0.09	0	
Main	35371	FU100Yr	14866.84	860.69	882.73		882.75	0.000105	2.16	13883.91	1162.23	0.09	14866.84	860.69	882.73		882.75	0.000105	2.16	13883.91	1162.23	0.09	0	
Main	35030	100Yr	15349.59	860.26	881.97		882.54	0.001622	8.16	3727.35	411.38	0.34	15349.59	860.26	881.97		882.54	0.001622	8.16	3727.35	411.38	0.34	0	
Main	35030	FU100Yr	15444.83	860.26	882.03		882.6	0.001615	8.16	3752.43	412.01	0.34	15444.83	860.26	882.03		882.6	0.001615	8.16	3752.43	412.01	0.34	0	
Main	34657	100Yr	15349.59	860.08	881.32		881.96	0.001499	8.48	3301.39	289.7	0.34	15349.59	860.08	881.32		881.96	0.001499	8.48	3301.39	289.7	0.34	0	
Main	34657	FU100Yr	15444.83	860.08	881.39		882.02	0.001495	8.49	3319.13	290.01	0.34	15444.83	860.08	881.39		882.02	0.001495	8.49	3319.13	290.01	0.34	0	
Main	34280	100Yr	15349.59	859.57	880.99		881.46	0.000979	6.94	3882	376.21	0.28	15349.59	859.57	880.99		881.46	0.000979	6.94	3882	376.21	0.28	0	
Main	34280	FU100Yr	15444.83	859.57	881.05		881.52	0.000977	6.95	3905.49	378.32	0.28	15444.83	859.57	881.05		881.52	0.000977	6.95	3905.49	378.32	0.28	0	
Main	33918	100Yr	15349.59	858.33	880.7		881.12	0.000904	6.63	4325.52	410.88	0.27	15349.59	858.33	880.7		881.12	0.000904	6.63	4325.52	410.88	0.27	0	
Main	33918	FU100Yr	15444.83	858.33	880.77		881.18	0.000902	6.64	4351.58	412.01	0.27	15444.83	858.33	880.77		881.18	0.000902	6.64	4351.58	412.01	0.27	0	
Main	33491	100Yr	15349.59	857.72	880.36		880.78	0.000752	6.15	4395.29	432.38	0.25	15349.59	857.72	880.36		880.78	0.000752	6.15	4395.29	432.38	0.25	0	
Main	33491	FU100Yr	15444.83	857.72	880.42		880.84	0.00075	6.15	4423.08	433.35	0.25	15444.83	857.72	880.42		880.84	0.00075	6.15	4423.08	433.35	0.25	0	
Main	33060	100Yr	15854.26	856.85	880.14		880.42	0.000724	5.92	4669.53	452.77	0.24	15854.26	856.85	880.14		880.42	0.000724	5.92	4669.53	452.77	0.24	0	
Main	33060	FU100Yr	15957.05	856.85	880.21		880.49	0.000723	5.92	4699.04	454.3	0.24	15957.05	856.85	880.21		880.49	0.000723	5.92	4699.04	454.3	0.24	0	
Main	32493	100Yr	15854.26	854.68	879.52		879.95	0.001001	7.19	4196.58	319.39	0.27	15854.26	854.68	879.52		879.95	0.001001	7.19	4196.58	319.39	0.27	0	
Main	32493	FU100Yr	15957.05	854.68	879.59		880.02	0.001	7.2	4217.27	319.94	0.27	15957.05	854.68	879.59		880.02	0.001	7.2	4217.27	319.94	0.27	0	
Main	32055	100Yr	15854.26	853.64	878.9		879.48	0.00112	7.79	4021.16	334.38	0.3	15854.26	853.64	878.9		879.48	0.00112	7.79	4021.16	334.38	0.3	0	
Main	32055	FU100Yr	15957.05	853.64	878.96		879.55	0.001119	7.81	4042.78	335.17	0.3	15957.05	853.64	878.96		879.55	0.001119	7.81	4042.78	335.17	0.3	0	
Main	31679	100Yr	15854.26	852.81	878.37		879.03	0.00126	8.24	3454.84	289.41	0.31	15854.26	852.81	878.37		879.03	0.00126	8.24	3454.84	289.41	0.31	0	
Main	31679	FU100Yr	15957.05	852.81	878.44		879.1	0.001259	8.25	3473.7	289.79	0.31	15957.05	852.81	878.44		879.1	0.001259	8.25	3473.7	289.79	0.31	0	
Main	31100	100Yr	16655.02	852.48	878.01		878.45	0.000695	6.39	4006.02	394.67	0.24	16655.02	852.48	878.01		878.45	0.000695	6.39	4006.02	394.67	0.24	0	
Main	31100	FU100Yr	16780.41	852.48	878.08		878.52	0.000696	6.4	4031.6	395.44	0.24	16780.41	852.48	878.08		878.52	0.000696	6.4	4031.6	395.44	0.24	0	
Main	30559	100Yr	16655.02	851.68	877.97	867.02	878.14	0.000289	4.22	5436.71	440.7	0.16	16655.02	851.68	877.97	867.02	878.14	0.000289	4.22	5436.71	440.7	0.16	0	
Main	30559	FU100Yr	16780.41	851.68	878.03	867.04	878.21	0.000289	4.23	5465.12	441.19	0.16	16780.41	851.68	878.03	867.04	878.21	0.000289	4.23	5465.12	441.19	0.16	0	
Main	30358	100Yr	8857.25	851.85	877.58	864.22	877.99	0.000523	5.62	1955.8	268.81	0.21	8857.25	851.85	877.58	864.22	877.99	0.000523	5.62	1955.8	268.81	0.21	0	
Main	30358	FU100Yr	8892.69	851.85	877.64	864.25	878.06	0.000521	5.62	1963.42	269.21	0.21	8892.69	851.85	877.64	864.25	878.06	0.000521	5.62	1963.42	269.21	0.21	0	
Main	30259	Shallowford Rd																						
					Culvert																			
Main	30157	100Yr	8857.25	850.8	871.2		872.07	0.001537	7.47	1194.34	74.83	0.32	8857.25	850.8	871.2		872.07	0.001537	7.47	1194.34	74.83	0.32	0	
Main	30157	FU100Yr	8892.69	850.8	871.21		872.09	0.001546	7.49	1195.24	74.85	0.32	8892.69	850.8	871.21		872.09	0.001546	7.49	1195.24	74.85	0.32	0	
Main	30010	100Yr	8857.25	850.75	870.56		871.72	0.002106	8.66	1044.68	72.7	0.38	8857.25	850.75	870.56		871.72	0.002106	8.66	1044.68	72.7	0.38	0	
Main	30010	FU100Yr	8892.69	850.75	870.56		871.73	0.002119	8.69	1045.2	72.72	0.38	8892.69	850.75	870.56		871.73	0.002119	8.69	1045.2	72.72	0.38	0	
Main	29859	100Yr	8857.25	845.72	870.61	860.24	871.23	0.001036	6.54	1546.56	140.48	0.28	8857.25	845.72	870.61	860.24	871.23	0.001036	6.54	1546.56	140.48	0.28	0	
Main	29859	FU100Yr	8892.69	845.72	870.61	860.26	871.24	0.001043	6.56	1547.65	140.54	0.28	8892.69	845.72	870.61	860.26	871.24	0.001043	6.56	1547.65	140.54	0.28	0	
Main	29799																							
					Bridge																			
Main	29719	100Yr	8857.25	846.3	869.77		870.54	0.00136	7.33	1406.27	128.94	0.31	8857.25	846.3	869.77		870.54	0.00136	7.33	1406.27	128.94	0.31	0	
Main	29719	FU100Yr	8892.69	846.3	869.8		870.58	0.00136	7.34	1411.09	129.15	0.31	8892.69	846.3	869.8		870.58	0.0013						

River Station			Dewberry "Corrected" Model										CCC "Proposed" Model										Delta W.S. (ft)
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	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	
Main	27633	FU100yr	8965.91	848.23	866.32		867.61	0.002688	9.99	1482.74	188.44	0.45	8965.91	848.23	866.32		867.61	0.002688	9.99	1482.74	188.44	0.45	0
Main	27365	100yr	8930.27	847.76	865.97		866.87	0.001756	8.67	1854.53	203.27	0.37	8930.27	847.76	865.97		866.87	0.001756	8.67	1854.53	203.27	0.37	0
Main	27365	FU100yr	8965.91	847.76	866.02		866.92	0.001748	8.67	1864.68	203.65	0.37	8965.91	847.76	866.02		866.92	0.001748	8.67	1864.68	203.65	0.37	0
Main	26994	100yr	8930.27	846.8	865.5		866.26	0.001339	7.61	1822.34	182.86	0.33	8930.27	846.8	865.5		866.26	0.001339	7.61	1822.34	182.86	0.33	0
Main	26994	FU100yr	8965.91	846.8	865.55		866.31	0.001333	7.61	1831.8	183.18	0.33	8965.91	846.8	865.55		866.31	0.001333	7.61	1831.8	183.18	0.33	0
Main	26670	100yr	8930.27	844.85	865.39		865.85	0.000765	5.82	2275.29	236.49	0.25	8930.27	844.85	865.39		865.85	0.000765	5.82	2275.29	236.49	0.25	0
Main	26670	FU100yr	8965.91	844.85	865.44		865.9	0.000762	5.82	2287.82	236.95	0.25	8965.91	844.85	865.44		865.9	0.000762	5.82	2287.82	236.95	0.25	0
Main	26432	100yr	8930.27	844.21	865.29		865.65	0.0007	5.69	2853.07	283.46	0.23	8930.27	844.21	865.29		865.65	0.0007	5.69	2853.07	283.46	0.23	0
Main	26432	FU100yr	8965.91	844.21	865.34		865.7	0.000696	5.69	2868.46	283.83	0.23	8965.91	844.21	865.34		865.7	0.000696	5.69	2868.46	283.83	0.23	0
Main	26171	100yr	8930.27	844.04	865.2		865.46	0.000519	4.7	3430.54	353.13	0.2	8930.27	844.04	865.2		865.46	0.000519	4.7	3430.54	353.13	0.2	0
Main	26171	FU100yr	8965.91	844.04	865.26		865.51	0.000516	4.69	3449.96	353.76	0.2	8965.91	844.04	865.26		865.51	0.000516	4.69	3449.96	353.76	0.2	0
Main	25831	100yr	8930.27	843.81	865.06		865.28	0.000491	4.45	3618.28	369.78	0.19	8930.27	843.81	865.06		865.28	0.000491	4.45	3618.28	369.78	0.19	0
Main	25831	FU100yr	8965.91	843.81	865.11		865.33	0.000488	4.44	3638.98	370.62	0.19	8965.91	843.81	865.11		865.33	0.000488	4.44	3638.98	370.62	0.19	0
Main	25392	100yr	11815.43	843.63	864.7		865.02	0.000671	5.98	3999.42	351.3	0.24	11815.43	843.63	864.7		865.02	0.000671	5.98	3999.42	351.3	0.24	0
Main	25392	FU100yr	11903.43	843.63	864.75		865.07	0.000673	6	4018.35	351.68	0.24	11903.43	843.63	864.75		865.07	0.000673	6	4018.35	351.68	0.24	0
Main	25027	100yr	11815.43	843.3	863.55		864.57	0.002021	9.2	2206.44	248.94	0.38	11815.43	843.3	863.55		864.57	0.002021	9.2	2206.44	248.94	0.38	0
Main	25027	FU100yr	11903.43	843.3	863.6		864.62	0.002026	9.23	2218.72	249.8	0.38	11903.43	843.3	863.6		864.62	0.002026	9.23	2218.72	249.8	0.38	0
Main	24702	100yr	11815.43	842.94	862.94		863.94	0.001823	8.83	2058.38	190.56	0.37	11815.43	842.94	862.94		863.94	0.001823	8.83	2058.38	190.56	0.37	0
Main	24702	FU100yr	11903.43	842.94	862.98		864	0.001833	8.87	2066.87	191.06	0.37	11903.43	842.94	862.98		864	0.001833	8.87	2066.87	191.06	0.37	0
Main	24281	100yr	11815.43	842.89	862.98		863.3	0.000658	5.54	4155.63	392.85	0.23	11815.43	842.89	862.98		863.3	0.000658	5.54	4155.63	392.85	0.23	0
Main	24281	FU100yr	11903.43	842.89	863.03		863.35	0.00066	5.56	4174.22	393.23	0.23	11903.43	842.89	863.03		863.35	0.00066	5.56	4174.22	393.23	0.23	0
Main	23875	100yr	11815.43	842.93	862.7		863.03	0.000715	5.75	4158.67	385.75	0.24	11815.43	842.93	862.7		863.03	0.000715	5.75	4158.67	385.75	0.24	0
Main	23875	FU100yr	11903.43	842.93	862.75		863.08	0.000717	5.77	4176.57	385.91	0.24	11903.43	842.93	862.75		863.08	0.000717	5.77	4176.57	385.91	0.24	0
Main	23654	100yr	11815.43	842.52	862.33		862.82	0.001031	6.56	3031.51	275.27	0.28	11815.43	842.52	862.33		862.82	0.001031	6.56	3031.51	275.27	0.28	0
Main	23654	FU100yr	11903.43	842.52	862.37		862.87	0.001035	6.59	3043.59	275.65	0.28	11903.43	842.52	862.37		862.87	0.001035	6.59	3043.59	275.65	0.28	0
Main	23365	100yr	11815.43	842.53	862.14		862.52	0.000888	6.1	3025.09	315.41	0.27	11815.43	842.53	862.14		862.52	0.000888	6.1	3025.09	315.41	0.27	0
Main	23365	FU100yr	11903.43	842.53	862.18		862.56	0.000889	6.12	3038.98	315.94	0.27	11903.43	842.53	862.18		862.56	0.000889	6.12	3038.98	315.94	0.27	0
Main	22764	100yr	11815.43	842.17	861.66		861.99	0.000844	5.94	3662.37	411.46	0.26	11815.43	842.17	861.66		861.99	0.000844	5.94	3662.37	411.46	0.26	0
Main	22764	FU100yr	11903.43	842.17	861.7		862.03	0.000846	5.96	3680.14	412.19	0.26	11903.43	842.17	861.7		862.03	0.000846	5.96	3680.14	412.19	0.26	0
Main	22584	100yr	11815.43	842.02	861.62		861.83	0.000514	4.81	4547.45	497.53	0.2	11815.43	842.02	861.62		861.83	0.000514	4.81	4547.45	497.53	0.2	0
Main	22584	FU100yr	11903.43	842.02	861.66		861.88	0.000515	4.83	4568.96	497.69	0.21	11903.43	842.02	861.66		861.88	0.000515	4.83	4568.96	497.69	0.21	0
Main	22438	100yr	10646.73	841.92	861.47	852.13	861.74	0.000508	4.95	3291.53	322.55	0.21	10646.73	841.92	861.47	852.13	861.74	0.000508	4.95	3291.53	322.55	0.21	0
Main	22438	FU100yr	10706.48	841.92	861.52	852.15	861.78	0.000508	4.97	3302.02	322.66	0.21	10706.48	841.92	861.52	852.15	861.78	0.000508	4.97	3302.02	322.66	0.21	0
Main	22356	Interstate 85	Bridge										Bridge										
Main	22031	100yr	13608.43	840.12	860.28	853.91	861.08	0.001569	8.38	2532.84	311.94	0.35	13608.43	840.12	860.28	853.91	861.08	0.001569	8.38	2532.84	311.94	0.35	0
Main	22031	FU100yr	13689.58	840.12	860.32	853.95	861.12	0.001574	8.4	2540.93	312.19	0.35	13689.58	840.12	860.32	853.95	861.12	0.001574	8.4	2540.93	312.19	0.35	0
Main	21830	100yr	13608.43	839.62	859.97		860.74	0.001708	8.72	2865.94	280.68	0.36	13608.43	839.62	859.97		860.74	0.001708	8.72	2865.94	280.68	0.36	0
Main	21830	FU100yr	13689.58	839.62	860.01		860.78	0.001713	8.74	2876.13	280.95	0.36	13689.58	839.62	860.01		860.78	0.001713	8.74	2876.13	280.95	0.36	0
Main	21378	100yr	13608.43	837.9	858.88		859.95	0.001713	8.96	2110.49	187.11	0.37	13608.43	837.9	858.88		859.95	0.001713	8.96	2110.49	187.11	0.37	0
Main	21378	FU100yr	13689.58	837.9	858.91		859.98	0.001723	8.99	2115.81	187.24	0.37	13689.58	837.9	858.91		859.98	0.001723	8.99	2115.81	187.24	0.37	0
Main	20956	100yr	13608.43	836.39	858.65		859.29	0.000943	6.59	2435.02	205.8	0.28	13608.43	836.39	858.65		859.29	0.000943	6.59	2435.02	205.8	0.28	0
Main	20956	FU100yr	13689.58	836.39	858.68		859.33	0.000949	6.61	2440.62	205.91	0.28	13689.58	836.39	858.68		859.33	0.000949	6.61	2440.62	205.91	0.28	0
Main	20735	100yr	13608.43	835.61	857.61		858.92	0.002357	10.06	1908.29	187.53	0.42	13608.43	835.61	857.61		858.92	0.002357	10.06	1908.29	187.53	0.42	0
Main	20735	FU100yr	13689.58	835.61	857.63		858.95	0.002375	10.11	1911.75	187.64	0.42	13689.58	835.61	857.63		858.95	0.002375	10.11	1911.75	187.64	0.42	0
Main	20311	100yr	13608.43	835.03	856.71		858.1	0.001568	9.82	1830.07	201.76	0.44	13608.43	835.03	856.71		858.1	0.001568	9.82	1830.07	201.76	0	

River Station			Dewberry "Corrected" Model										CCC "Proposed" Model										Delta W.S. (ft)
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	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	
Main	18756	100yr	13573.76	834.43	854.46	848.71	856.1	0.002202	11.05	1806.3	159.49	0.46	13573.76	834.43	854.46	848.71	856.1	0.002202	11.05	1806.3	159.49	0.46	0
Main	18756	FU100yr	13632.39	834.43	854.56	848.73	856.18	0.002177	11.02	1821.3	160.01	0.46	13632.39	834.43	854.56	848.73	856.18	0.002177	11.02	1821.3	160.01	0.46	0
Main	18528	100yr	13690.56	833.94	854.31		855.39	0.001637	9.15	2334.77	266.62	0.4	13690.56	833.94	854.31		855.39	0.001637	9.15	2334.77	266.62	0.4	0
Main	18528	FU100yr	13750.39	833.94	854.41		855.48	0.001609	9.11	2361.98	267.65	0.4	13750.39	833.94	854.41		855.48	0.001609	9.11	2361.98	267.65	0.4	0
Main	18298	100yr	13690.56	833.07	854.91		855.02	0.00014	3.23	6085.49	817.86	0.14	13690.56	833.07	854.91		855.02	0.00014	3.23	6085.49	817.86	0.14	0
Main	18298	FU100yr	13750.39	833.07	855.01		855.11	0.000137	3.2	6164.92	838.01	0.14	13750.39	833.07	855.01		855.11	0.000137	3.2	6164.92	838.01	0.14	0
Main	17955	100yr	13690.56	831.92	854.57	847.14	854.91	0.000511	5.41	4178.82	576.52	0.25	13690.56	831.92	854.57	847.14	854.91	0.000511	5.41	4178.82	576.52	0.25	0
Main	17955	FU100yr	13750.39	831.92	854.67	847.15	855.01	0.000499	5.37	4238.3	578.88	0.25	13750.39	831.92	854.67	847.15	855.01	0.000499	5.37	4238.3	578.88	0.25	0
Main	17577	100yr	13690.56	831.86	854.61	844.33	854.76	0.000147	3.28	4665.35	484.3	0.14	13690.56	831.86	854.61	844.33	854.76	0.000147	3.28	4665.35	484.3	0.14	0
Main	17577	FU100yr	13750.39	831.86	854.71	844.34	854.86	0.000145	3.27	4704.04	487.98	0.14	13750.39	831.86	854.71	844.34	854.86	0.000145	3.27	4704.04	487.98	0.14	0
Main	17111	100yr	13690.56	831.76	854.58	843.91	854.68	0.000122	3.04	5637.51	899.87	0.13	13690.56	831.76	854.58	843.91	854.68	0.000122	3.04	5637.51	899.87	0.13	0
Main	17111	FU100yr	13750.39	831.76	854.68	843.91	854.78	0.00012	3.03	5699.72	917.3	0.13	13750.39	831.76	854.68	843.91	854.78	0.00012	3.03	5699.72	917.3	0.13	0
Main	16641	100yr	13690.56	831.67	854.53	843.16	854.63	0.000107	3.03	6390.98	776.84	0.12	13690.56	831.67	854.53	843.16	854.63	0.000107	3.03	6390.98	776.84	0.12	0
Main	16641	FU100yr	13750.39	831.67	854.63	842.88	854.73	0.000105	3.02	6443.06	784.96	0.12	13750.39	831.67	854.63	842.88	854.73	0.000105	3.02	6443.06	784.96	0.12	0
Main	16500	100yr	14335.25	831.68	853.96	844.12	854.47	0.000496	6.39	3277.24	683.31	0.26	14335.25	831.68	853.96	844.12	854.47	0.000496	6.39	3277.24	683.31	0.26	0
Main	16500	FU100yr	14428.13	831.68	854.06	844.15	854.57	0.000492	6.39	3304.34	692.37	0.26	14428.13	831.68	854.06	844.15	854.57	0.000492	6.39	3304.34	692.37	0.26	0
Main	16481	Clairmont Rd																					
Main	16377	100yr	14335.25	832.18	852.53	845.17	853.52	0.000986	8.28	2077.72	239.74	0.36	14335.25	832.18	852.53	845.17	853.52	0.000986	8.28	2077.72	239.74	0.36	0
Main	16377	FU100yr	14428.13	832.18	852.62	845.21	853.6	0.000981	8.29	2091.47	248.77	0.36	14428.13	832.18	852.62	845.21	853.6	0.000981	8.29	2091.47	248.77	0.36	0
Main	16150	100yr	14335.25	831.24	851.82		853.15	0.001444	9.9	2025.12	223.46	0.43	14335.25	831.24	851.82		853.15	0.001444	9.9	2025.12	223.46	0.43	0
Main	16150	FU100yr	14428.13	831.24	851.92		853.24	0.001426	9.87	2047.26	225.19	0.43	14428.13	831.24	851.92		853.24	0.001426	9.87	2047.26	225.19	0.43	0
Main	15958	100yr	14335.25	830.23	851.96		852.77	0.000914	7.72	2672.53	288.37	0.34	14335.25	830.23	851.96		852.77	0.000914	7.72	2672.53	288.37	0.34	0
Main	15958	FU100yr	14428.13	830.23	852.06		852.87	0.000902	7.71	2701.12	289.57	0.34	14428.13	830.23	852.06		852.87	0.000902	7.71	2701.12	289.57	0.34	0
Main	15770	100yr	14335.25	829.25	852.29		852.51	0.000257	4.69	5705.7	498.71	0.19	14335.25	829.25	852.29		852.51	0.000257	4.69	5705.7	498.71	0.19	0
Main	15770	FU100yr	14428.13	829.25	852.39		852.61	0.000255	4.68	5754.3	499.75	0.19	14428.13	829.25	852.39		852.61	0.000255	4.68	5754.3	499.75	0.19	0
Main	15691	100yr	14335.25	828.97	852.37		852.46	0.000127	3.2	7362.09	588.76	0.13	14335.25	828.97	852.37		852.46	0.000127	3.2	7362.09	588.76	0.13	0
Main	15691	FU100yr	14428.13	828.97	852.47		852.56	0.000126	3.2	7419.12	589.48	0.13	14428.13	828.97	852.47		852.56	0.000126	3.2	7419.12	589.48	0.13	0
Main	15485	100yr	14335.25	828.49	852.18	842.45	852.39	0.000248	4.84	6240.23	473.64	0.19	14335.25	828.49	852.18	842.45	852.39	0.000248	4.84	6240.23	473.64	0.19	0
Main	15485	FU100yr	14428.13	828.49	852.28	842.48	852.48	0.000247	4.83	6286.46	474.16	0.19	14428.13	828.49	852.28	842.48	852.48	0.000247	4.83	6286.46	474.16	0.19	0
Main	15420	Cannon Farm Hill																					
Main	15369	100yr	14335.25	829.04	852.03		852.32	0.000245	4.99	4839.73	341.49	0.19	14335.25	829.04	852.03		852.32	0.000245	4.99	4839.73	341.49	0.19	0
Main	15369	FU100yr	14428.13	829.04	852.13		852.41	0.000244	4.99	4872.94	342.54	0.19	14428.13	829.04	852.13		852.41	0.000244	4.99	4872.94	342.54	0.19	0
Main	15268	100yr	14335.25	828.7	851.89		852.26	0.000406	5.95	4442.73	369.05	0.24	14335.25	828.7	851.89		852.26	0.000406	5.95	4442.73	369.05	0.24	0
Main	15268	FU100yr	14428.13	828.7	851.99		852.36	0.000403	5.95	4479.47	370.07	0.24	14428.13	828.7	851.99		852.36	0.000403	5.95	4479.47	370.07	0.24	0
Main	15207	100yr	14335.25	827.85	851.88	844.02	852.22	0.000435	6.13	4272.13	378.84	0.24	14335.25	827.85	851.88	844.02	852.22	0.000435	6.13	4272.13	378.84	0.24	0
Main	15207	FU100yr	14428.13	827.85	851.98	843.99	852.31	0.00043	6.11	4310.08	379.75	0.24	14428.13	827.85	851.98	843.99	852.31	0.00043	6.11	4310.08	379.75	0.24	0
Main	15157	Parking Garage																					
Main	14704	100yr	14335.25	827.28	851.74		851.97	0.000268	5.09	7245.63	754.37	0.2	14335.25	827.28	851.74		851.97	0.000268	5.09	7245.63	754.37	0.2	0
Main	14704	FU100yr	14428.13	827.28	851.84		852.07	0.000265	5.07	7322.65	755.11	0.19	14428.13	827.28	851.84		852.07	0.000265	5.07	7322.65	755.11	0.19	0
Main	14597	100yr	14335.25	827.43	851.74		851.92	0.000213	4.35	7687.41	847.63	0.17	14335.25	827.43	851.74		851.92	0.000213	4.35	7687.41	847.63	0.17	0
Main	14597	FU100yr	14428.13	827.43	851.85		852.02	0.00021	4.34	7774.08	849.05	0.17	14428.13	827.43	851.85		852.02	0.00021	4.34	7774.08	849.05	0.17	0
Main	14156	100yr	14335.25	826.78	851.5		851.8	0.000302	5.54	6234.1	630.56	0.21	14335.25	826.78	851.5		851.8	0.000302	5.54	6234.1	630		

River Station			Dewberry "Corrected" Model										CCC "Proposed" Model										Delta W.S. (ft)
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	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	
Main	11919	FU100yr	17615.76	823.4	847.5	839.34	849.02	0.001296	10.68	2505.3	257.66	0.41	17615.76	823.4	847.5	839.34	849.02	0.001296	10.68	2505.3	257.66	0.41	0
Main	11828	100yr	17199.57	823.01	845.02	841.42	848.23	0.003636	14.39	1212.95	102.37	0.66	17199.57	823.01	845.02	841.42	848.23	0.003636	14.39	1212.95	102.37	0.66	0
Main	11828	FU100yr	17338.94	823.01	845.11	841.47	848.33	0.003618	14.41	1222.46	102.92	0.66	17338.94	823.01	845.11	841.47	848.33	0.003618	14.41	1222.46	102.92	0.66	0
Main	11780	Briarwood Rd	Bridge										Bridge										
Main	11741	100yr	17199.57	824.22	844.83	840.81	847.69	0.003227	13.58	1284.88	108.43	0.62	17199.57	824.22	844.83	840.81	847.69	0.003227	13.58	1284.88	108.43	0.62	0
Main	11741	FU100yr	17338.94	824.22	844.9	840.89	847.78	0.003227	13.62	1292.66	109.4	0.62	17338.94	824.22	844.9	840.89	847.78	0.003227	13.62	1292.66	109.4	0.62	0
Main	11616	100yr	17199.57	822.46	845.25		846.73	0.001514	10.27	2319.44	222.15	0.44	17199.57	822.46	845.25		846.73	0.001514	10.27	2319.44	222.15	0.44	0
Main	11616	FU100yr	17338.94	822.46	845.33		846.81	0.001512	10.29	2336.69	222.86	0.44	17338.94	822.46	845.33		846.81	0.001512	10.29	2336.69	222.86	0.44	0
Main	11336	100yr	17341.57	820.95	843.56		846.07	0.002729	13.59	1818.33	203.87	0.58	17341.57	820.95	843.56		846.07	0.002729	13.59	1818.33	203.87	0.58	0
Main	11336	FU100yr	17481.58	820.95	843.64		846.15	0.002723	13.62	1834.27	205.29	0.58	17481.58	820.95	843.64		846.15	0.002723	13.62	1834.27	205.29	0.58	0
Main	10957	100yr	17341.57	820	843.42		845.04	0.001531	10.77	2261.34	195.42	0.45	17341.57	820	843.42		845.04	0.001531	10.77	2261.34	195.42	0.45	0
Main	10957	FU100yr	17481.58	820	843.49		845.13	0.001531	10.8	2276.34	195.95	0.45	17481.58	820	843.49		845.13	0.001531	10.8	2276.34	195.95	0.45	0
Main	10621	100yr	17341.57	819.37	842.33		844.39	0.002205	12.46	2249.66	229.94	0.53	17341.57	819.37	842.33		844.39	0.002205	12.46	2249.66	229.94	0.53	0
Main	10621	FU100yr	17481.58	819.37	842.41		844.47	0.002198	12.48	2268.82	230.44	0.53	17481.58	819.37	842.41		844.47	0.002198	12.48	2268.82	230.44	0.53	0
Main	10248	100yr	17341.57	818.84	842.84		843.57	0.000701	7.55	3912.6	366.4	0.31	17341.57	818.84	842.84		843.57	0.000701	7.55	3912.6	366.4	0.31	0
Main	10248	FU100yr	17481.58	818.84	842.92		843.66	0.0007	7.57	3943.74	368.1	0.31	17481.58	818.84	842.92		843.66	0.0007	7.57	3943.74	368.1	0.31	0
Main	9861	100yr	17341.57	817.82	842.4		843.27	0.000787	8.07	3342.42	335.03	0.33	17341.57	817.82	842.4		843.27	0.000787	8.07	3342.42	335.03	0.33	0
Main	9861	FU100yr	17481.58	817.82	842.49		843.36	0.000785	8.08	3371.67	335.95	0.33	17481.58	817.82	842.49		843.36	0.000785	8.08	3371.67	335.95	0.33	0
Main	9509	100yr	18183.11	817.43	840.82		842.75	0.001932	12.26	2349.12	229	0.5	18183.11	817.43	840.82		842.75	0.001932	12.26	2349.12	229	0.5	0
Main	9509	FU100yr	18425.82	817.43	840.86		842.83	0.001963	12.38	2359.7	229.26	0.51	18425.82	817.43	840.86		842.83	0.001963	12.38	2359.7	229.26	0.51	0
Main	9012	100yr	18183.11	815.95	840.78		841.85	0.000932	9.17	3032.64	249.87	0.36	18183.11	815.95	840.78		841.85	0.000932	9.17	3032.64	249.87	0.36	0
Main	9012	FU100yr	18425.82	815.95	840.82		841.91	0.000949	9.26	3044.13	250.01	0.36	18425.82	815.95	840.82		841.91	0.000949	9.26	3044.13	250.01	0.36	0
Main	8661	100yr	18183.11	815.49	840.71		841.5	0.000604	7.7	3381.67	294.74	0.3	18183.11	815.49	840.71		841.5	0.000604	7.7	3381.67	294.74	0.3	0
Main	8661	FU100yr	18425.82	815.49	840.76		841.56	0.000615	7.78	3394.77	296.71	0.3	18425.82	815.49	840.76		841.56	0.000615	7.78	3394.77	296.71	0.3	0
Main	8263	100yr	18183.11	815.07	840.62		841.2	0.000592	7.17	4641.61	379.78	0.28	18183.11	815.07	840.62		841.2	0.000592	7.17	4641.61	379.78	0.28	0
Main	8263	FU100yr	18425.82	815.07	840.67		841.26	0.000602	7.25	4658.24	380.07	0.29	18425.82	815.07	840.67		841.26	0.000602	7.25	4658.24	380.07	0.29	0
Main	7919	100yr	18349.12	814.74	840.77		840.98	0.000213	4.61	7391.44	595.16	0.18	18349.12	814.74	840.77		840.98	0.000213	4.61	7391.44	595.16	0.18	0
Main	7919	FU100yr	18594.35	814.74	840.81		841.03	0.000217	4.66	7419.26	596.4	0.18	18594.35	814.74	840.81		841.03	0.000217	4.66	7419.26	596.4	0.18	0
Main	7523	100yr	18349.12	814.42	840.6		840.89	0.000209	5.31	5931.48	467.65	0.2	18349.12	814.42	840.6		840.89	0.000209	5.31	5931.48	467.65	0.2	0
Main	7523	FU100yr	18594.35	814.42	840.65		840.94	0.000213	5.36	5951.99	468.75	0.2	18594.35	814.42	840.65		840.94	0.000213	5.36	5951.99	468.75	0.2	0
Main	7118	100yr	18349.12	814.34	839.3		840.63	0.001049	10.06	2352.13	200.41	0.36	18349.12	814.34	839.3		840.63	0.001049	10.06	2352.13	200.41	0.36	0
Main	7118	FU100yr	18594.35	814.34	839.31		840.67	0.001075	10.18	2354.05	200.8	0.37	18594.35	814.34	839.31		840.67	0.001075	10.18	2354.05	200.8	0.37	0
Main	6938	100yr	18349.12	814.34	838.6		840.4	0.001018	11.48	2154.12	178.31	0.43	18349.12	814.34	838.6		840.4	0.001018	11.48	2154.12	178.31	0.43	0
Main	6938	FU100yr	18594.35	814.34	838.58		840.43	0.001049	11.64	2151.35	178.09	0.44	18594.35	814.34	838.58		840.43	0.001049	11.64	2151.35	178.09	0.44	0
Main	6662	100yr	18555.97	814.11	838.74		839.99	0.000747	9.74	3080.83	602.92	0.37	18555.97	814.11	838.74		839.99	0.000747	9.74	3080.83	602.92	0.37	0
Main	6662	FU100yr	18808.59	814.11	838.72		840.02	0.00077	9.88	3072.81	602.02	0.38	18808.59	814.11	838.72		840.02	0.00077	9.88	3072.81	602.02	0.38	0
Main	6348	100yr	18555.97	813.93	838.77		839.68	0.000609	9.02	3763.56	516.35	0.33	18555.97	813.93	838.77		839.68	0.000609	9.02	3763.56	516.35	0.33	0
Main	6348	FU100yr	18808.59	813.93	838.75		839.7	0.000628	9.16	3757.23	516.09	0.33	18808.59	813.93	838.75		839.7	0.000628	9.16	3757.23	516.09	0.33	0
Main	6189	100yr	18555.97	813.86	838.9	828.91	839.4	0.000353	6.98	4754.87	729.26	0.26	18555.97	813.86	838.9	828.91	839.4	0.000353	6.98	4754.87	729.26	0.26	0
Main	6189	FU100yr	18808.59	813.86	838.89	829.02	839.4	0.000364	7.08	4748.86	729.12	0.26	18808.59	813.86	838.89	829.02	839.4	0.000364	7.08	4748.86	729.12	0.26	0
Main	6118	Corporate Blvd	Bridge										Bridge										
Main	6074	100yr	18555.97	813.63	837.93	826.94	838.98	0.001181	8.3	2446.48	578.1	0.32	18555.97	813.63	837.93	826.94	838.98	0.001181	8.3	2446.48	578.1	0.32	0
Main	6074	FU100yr	18808.59	813.63	838.07	827.05	839.13	0.001185	8.35	2473.12	594.68	0.32	18808.59	813.63	838.07	827.05	839.13	0.001185	8.35	2473.12	594.68	0.32	0
Main	5891	100yr	18555.97	813.01	837.12	828.67	838.62	0.001237	10.15	2359.44	368.62	0.4	18555.97	813.01	837.12	828.67	838.62	0.001237	10.15	2359.44	368.62	0.4	0
Main	5891	FU100yr	18808.59	813.01	837.26	828.77	838.77	0.001234	10.19	2401.84	387.12	0.4	18808.59	813.01	837.26	828.77	838.77	0.001234	10.19	2401.84	387.12	0.4	0
Main	5577	100yr	18555.97	812.14	836.47		838.																

River Station			Dewberry "Corrected" Model											CCC "Proposed" Model											Delta W.S. (ft)
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	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			
Main	4682	100yr	18555.97	810.53	833.8	825.17	834.76	0.000868	7.89	2422.78	165.45	0.34	18555.97	810.53	833.8	825.17	834.76	0.000868	7.89	2422.78	165.45	0.34	0		
Main	4682	FU100yr	18808.59	810.53	833.9	825.28	834.87	0.000875	7.95	2438.91	166.03	0.34	18808.59	810.53	833.9	825.28	834.87	0.000875	7.95	2438.91	166.03	0.34	0		
Main	4516	100yr	18555.97	809.83	831.67		834.09	0.002467	12.56	1560.11	114	0.55	18555.97	809.83	831.67		834.09	0.002467	12.56	1560.11	114	0.55	0		
Main	4516	FU100yr	18808.59	809.83	831.72		834.19	0.002509	12.69	1565.51	114.12	0.56	18808.59	809.83	831.72		834.19	0.002509	12.69	1565.51	114.12	0.56	0		
Main	4159	100yr	18555.97	809.39	831.24		833.14	0.002044	11.09	1752.2	133.04	0.5	18555.97	809.39	831.24		833.14	0.002044	11.09	1752.2	133.04	0.5	0		
Main	4159	FU100yr	18808.59	809.39	831.28		833.22	0.002081	11.21	1757.53	133.16	0.5	18808.59	809.39	831.28		833.22	0.002081	11.21	1757.53	133.16	0.5	0		
Main	3985	100yr	18555.97	808.98	831.23		832.74	0.001319	10.54	2080.12	159.14	0.42	18555.97	808.98	831.23		832.74	0.001319	10.54	2080.12	159.14	0.42	0		
Main	3985	FU100yr	18808.59	808.98	831.27		832.81	0.001344	10.65	2086.6	161.63	0.42	18808.59	808.98	831.27		832.81	0.001344	10.65	2086.6	161.63	0.42	0		
Main	3614	100yr	18555.97	808.47	830.91		832.19	0.001283	9.75	2297.06	200.14	0.41	18555.97	808.47	830.91		832.19	0.001283	9.75	2297.06	200.14	0.41	0		
Main	3614	FU100yr	18808.59	808.47	830.95		832.25	0.001307	9.86	2304.23	200.19	0.41	18808.59	808.47	830.95		832.25	0.001307	9.86	2304.23	200.19	0.41	0		
Main	3184	100yr	18555.97	806.68	830.83	820.87	831.67	0.000701	7.74	2873.71	262.67	0.31	18555.97	806.68	830.83	820.87	831.67	0.000701	7.74	2873.71	262.67	0.31	0		
Main	3184	FU100yr	18808.59	806.68	830.86	821	831.72	0.000714	7.82	2882.21	263.52	0.31	18808.59	806.68	830.86	821	831.72	0.000714	7.82	2882.21	263.52	0.31	0		
Main	3021	100yr	19361.12	805.61	830.25	821.81	831.43	0.001034	8.8	2354.81	172.59	0.37	19361.12	805.61	830.25	821.81	831.43	0.001034	8.8	2354.81	172.59	0.37	0		
Main	3021	FU100yr	19455.54	805.61	830.3	822.1	831.48	0.001034	8.81	2363.74	172.88	0.37	19455.54	805.61	830.3	822.1	831.48	0.001034	8.81	2363.74	172.88	0.37	0		
Main	2966	Buford Hwy	Bridge											Bridge											
Main	2863	100yr	19361.12	805.48	829.22	821.87	830.51	0.001244	9.4	2205.14	226.46	0.4	19361.12	805.48	829.22	821.87	830.51	0.001244	9.4	2205.14	226.46	0.4	0		
Main	2863	FU100yr	19455.54	805.48	829.27	821.9	830.57	0.001242	9.41	2214.07	226.96	0.4	19455.54	805.48	829.27	821.9	830.57	0.001242	9.41	2214.07	226.96	0.4	0		
Main	2704	100yr	19361.12	805.02	828.7		830.23	0.00145	10.14	2241.34	258.94	0.44	19361.12	805.02	828.7		830.23	0.00145	10.14	2241.34	258.94	0.44	0		
Main	2704	FU100yr	19455.54	805.02	828.75		830.28	0.001446	10.14	2255.23	259.34	0.44	19455.54	805.02	828.75		830.28	0.001446	10.14	2255.23	259.34	0.44	0		
Main	2322	100yr	19361.12	804.7	825.48		829.17	0.003796	15.44	1291.26	93.63	0.68	19361.12	804.7	825.48		829.17	0.003796	15.44	1291.26	93.63	0.68	0		
Main	2322	FU100yr	19455.54	804.7	825.51		829.22	0.003806	15.48	1294.34	93.73	0.68	19455.54	804.7	825.51		829.22	0.003806	15.48	1294.34	93.73	0.68	0		
Main	1905	100yr	19361.12	803.1	823.96	822.68	827.48	0.004058	15.78	1702.7	240.44	0.69	19361.12	803.1	823.96	822.68	827.48	0.004058	15.78	1702.7	240.44	0.69	0		
Main	1905	FU100yr	19455.54	803.1	824.01	822.72	827.52	0.004044	15.78	1714.6	240.94	0.69	19455.54	803.1	824.01	822.72	827.52	0.004044	15.78	1714.6	240.94	0.69	0		
Main	1537	100yr	19401.45	801.76	823.78	819.68	825.97	0.002345	12.46	2259.25	395.4	0.54	19401.45	801.76	823.78	819.68	825.97	0.002345	12.46	2259.25	395.4	0.54	0		
Main	1537	FU100yr	19510.08	801.76	823.83	819.73	826.02	0.002337	12.46	2280.35	396.52	0.54	19510.08	801.76	823.83	819.73	826.02	0.002337	12.46	2280.35	396.52	0.54	0		
Main	1168	100yr	19401.45	800.92	823.05		825.15	0.001987	11.9	1991.76	186.34	0.5	19401.45	800.92	823.05		825.15	0.001987	11.9	1991.76	186.34	0.5	0		
Main	1168	FU100yr	19510.08	800.92	823.1		825.2	0.00199	11.93	2000.23	186.72	0.5	19510.08	800.92	823.1		825.2	0.00199	11.93	2000.23	186.72	0.5	0		
Main	824	100yr	19401.45	800.35	822.58		824.42	0.001819	10.91	1855.4	145.79	0.48	19401.45	800.35	822.58		824.42	0.001819	10.91	1855.4	145.79	0.48	0		
Main	824	FU100yr	19510.08	800.35	822.62		824.47	0.001822	10.94	1861.97	146.07	0.48	19510.08	800.35	822.62		824.47	0.001822	10.94	1861.97	146.07	0.48	0		
Main	429	100yr	19398.05	800.14	819.67	818.51	823.21	0.004086	16.12	1895.61	250.46	0.7	19398.05	800.14	819.67	818.51	823.21	0.004086	16.12	1895.61	250.46	0.7	0		
Main	429	FU100yr	19514.03	800.14	819.72	818.55	823.27	0.004083	16.14	1907.67	250.78	0.7	19514.03	800.14	819.72	818.55	823.27	0.004083	16.14	1907.67	250.78	0.7	0		
Main	334	100yr	19398.05	800.45	819.3	816.97	822.72	0.005942	15.34	1664.62	243.12	0.68	19398.05	800.45	819.3	816.97	822.72	0.005942	15.34	1664.62	243.12	0.68	0		
Main	334	FU100yr	19514.03	800.45	819.35	817.03	822.77	0.005933	15.36	1676.77	243.46	0.68	19514.03	800.45	819.35	817.03	822.77	0.005933	15.36	1676.77	243.46	0.68	0		
Main	283	100yr	19398.05	800.05	819.35	816.3	822.3	0.005002	14.27	1622.98	179.11	0.62	19398.05	800.05	819.35	816.3	822.3	0.005002	14.27	1622.98	179.11	0.62	0		
Main	283	FU100yr	19514.03	800.05	819.39	816.35	822.35	0.005002	14.3	1631.46	179.37	0.62	19514.03	800.05	819.39	816.35	822.35	0.005002	14.3	1631.46	179.37	0.62	0		