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Technical Memorandum

To:	Ms. Renee VanSickle, PE Floodplain Administrator City of Columbus Division of Sewerage and Drainage Stormwater and Regulatory Section 1250 Fairwood Avenue Columbus, OH 43206	No. of Pages: 6
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Date:	January 31, 2019	
Subject:	Supplemental Hydraulic Modeling Summary for: I-70/I-71 WEST INTERCHANGE BRIDGE REPLACEMENTS OVER SCIOTO RIVER FRA -70-12.68, (PID # 77372), Project 4A & FRA-70-13.10, (PID # 89464), Project 6A	

Purpose/Summary

The purpose of this memorandum is to evaluate and summarize the No-Rise impact recent design and construction modifications for the ODOT FRA-70 project will have on the Scioto River. This memorandum serves as a supplement to the April 2015 report entitled "Bridge Waterway Hydraulic and Scour Analysis Report for I-70/I-71 West Interchange Bridge Replacements over Scioto River". The planned modifications include the construction of an access road and foundation pads to facilitate maintenance of new power poles on the right (west) descending bank of the Scioto River, approximately 1600-feet downstream of the I-70 and I-71 bridges. To analyze potential impacts of this change, the former hydraulic model, developed with the April 2015 report, was refined to study both baseline and proposed conditions.

Baseline & Current Proposed Conditions Model Setup

The then proposed conditions model developed for the April 2015 report, which was based off of the effective FEMA model, was used to define the current baseline conditions for this analysis. The major differences between the April 2015 proposed condition model and the effective FEMA model is the incorporation of the proposed improvements for the I-70 / I-71 West Interchange Bridge Replacement project. The 2015 hydraulic analysis determined a No-Rise condition between the existing and proposed changes associated with the I-70/I-71 project.

From the baseline model, small refinements were made to define the proposed grading changes. Refer to Figure 1, which defines the locations where new cross sections were added to the former model. To better define existing conditions, 12 additional cross sections were added to the model including station-elevation data for each and FEMA's cross section AE. All new additions are based on recent survey obtained for this project. Each new cross sections uses a Manning N value of 0.042 for the main channel and an

overbank Manning N value of 0.08, which is consistent with the effective FEMA model, specifically cross section AE. The effective FEMA model has Manning N values for the channel that vary from 0.017 to 0.042 and overbank Manning N values from 0.04 to 0.08.

The flow rates used for the updated model can be found in Table 1. The flow rates are the same flows used in the effective FEMA model and previous study models. The boundary condition, a known water surface elevation, is different between the 2015 analysis and this analysis. Due to the addition of four cross sections downstream of the furthest cross section (Section AE) in the 2015

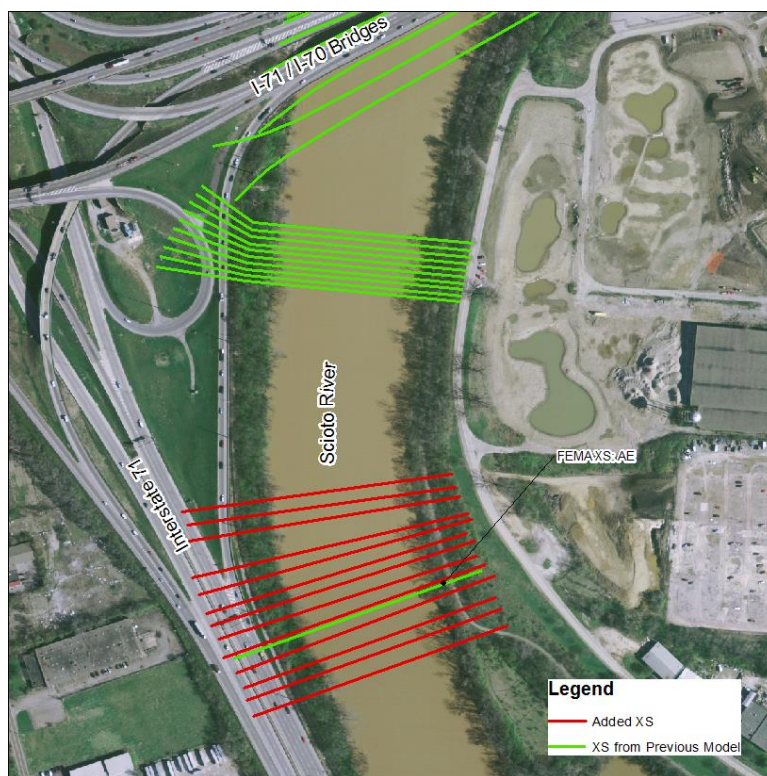


Figure 1: Updated Cross Sections

models, the known water surface elevations were lowered by 0.18-feet, which corresponds to an approximate slope of 0.001 ft/ft. This slope is generally representative of the channel slope for the entire reach modelled.

Table 1: Flow Rates in cubic feet per second

RS	Recurrence Intervals			
	10-Year	50-Year	100-Year	500-Year
256.066	28,900	47,500	57,000	87,000
253.6	36,800	62,100	75,000	114,000

The proposed model does not alter any of the cross section locations from the baseline model but does alter the terrain (i.e. station-elevation data). The terrain is altered for all the cross sections that will be impacted due to the construction of the access road and foundation pads for power pole maintenance. All other parameters are unchanged.

Hydraulic Model Results

The results for the hydraulic modeling can be found in Table 2. When comparing the current baseline conditions model with the final 2015 model many cross sections that have a lower water surface elevation. Of the 70 total cross sections, 49 simulate lower water surface elevations. In general, the range of water surface elevation reduction falls between 0.03-feet (at XS 245.057 or FEMA cross section AE) and 0.01-feet. The lower water surface elevation throughout the reach is a direct result of updated geometry within

study limits, which start at cross section 245.127 and continue downstream to cross section 245.023.

In addition to lowering the water surface elevations throughout the study limits, the proposed geometry also favorably affects 11 cross sections upstream of the study reach. There, the water surface elevations are reduced by 0.01-ft when compared to the baseline model. None of the cross-sections in the proposed hydraulic model have a water surface higher than the baseline model.

Conclusion

The ODOT FRA-70 project will include the construction of an access road and foundation pads for new power poles on the right (west) descending bank of the Scioto River, approximately 1600-feet downstream of the I-70 / I-71 Bridges. Refined hydraulic modeling indicates that these proposed improvements do not raise the water surface elevation for any of the cross-sections when compared to the baseline model defined in the 2015 report. Therefore, there is no modeled impact to any of the lettered FEMA cross sections or connected floodplain.

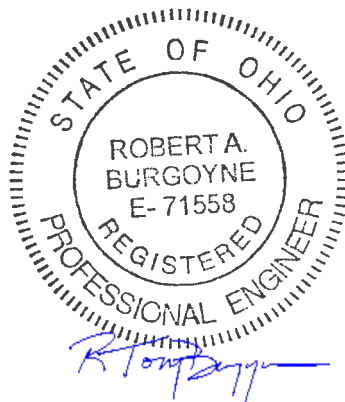


Table 2: 100-YR Hydraulic Modeling Results

River Station	2015 Model (1)	Baseline Model (2)		Proposed Model (3)	
	Water Surface Elev. (ft.)	Water Surface Elev. (ft.)	Delta (2-1)	Water Surface Elev. (ft.)	Delta (3-2)
256.066	724.83	724.83	0.00	724.83	0.00
256	724.8	724.8	0.00	724.8	0.00
255.96	724.74	724.73	-0.01	724.73	0.00
255.95	723.66	723.66	0.00	723.66	0.00
255.94	724.03	724.03	0.00	724.03	0.00
255.92	723.38	723.37	-0.01	723.37	0.00
255.91	723.39	723.39	0.00	723.39	0.00
255.9 AN	723.21	723.21	0.00	723.21	0.00
255.8	723.49	723.49	0.00	723.49	0.00
255.7	722.75	722.75	0.00	722.75	0.00
255.6	722.72	722.71	-0.01	722.71	0.00
255.5	722.57	722.56	-0.01	722.56	0.00
255.4	722.91	722.91	0.00	722.9	-0.01
255.2	721.96	721.96	0.00	721.95	-0.01
255.1	721.75	721.75	0.00	721.75	0.00
254.95	721.86	721.85	-0.01	721.85	0.00
254.94	721.73	721.73	0.00	721.73	0.00
254.92	721.63	721.62	-0.01	721.62	0.00
254.91	721.11	721.11	0.00	721.11	0.00
254.5 AM	720.75	720.75	0.00	720.74	-0.01
254.4	720.73	720.73	0.00	720.73	0.00
254.2	720.4	720.4	0.00	720.39	-0.01
254.1	720.33	720.33	0.00	720.32	-0.01
253.6 AL	720.32	720.31	-0.01	720.31	0.00
253.5	719.89	719.88	-0.01	719.88	0.00
253.4	719.97	719.96	-0.01	719.96	0.00
253.2	719.92	719.92	0.00	719.92	0.00
253.1	719.91	719.91	0.00	719.9	-0.01
252.8	719.77	719.76	-0.01	719.76	0.00
252.5 AK	719.73	719.72	-0.01	719.72	0.00
252.1	719.32	719.31	-0.01	719.31	0.00
252.06	719.17	719.16	-0.01	719.16	0.00
251.8	718.79	718.79	0.00	718.79	0.00
251.75	718.74	718.73	-0.01	718.73	0.00
251.5 AJ	718.65	718.64	-0.01	718.64	0.00
251.1	718.17	718.16	-0.01	718.16	0.00
250.776	717.78	717.77	-0.01	717.77	0.00

River Station	2015 Model (1)	Baseline Model (2)		Proposed Model (3)	
	Water Surface Elev. (ft.)	Water Surface Elev. (ft.)	Delta (2-1)	Water Surface Elev. (ft.)	Delta (3-2)
250.6268	717.49	717.48	-0.01	717.48	0.00
250.5503 AI	717.39	717.39	0.00	717.38	-0.01
250.4728	717.1	717.09	-0.01	717.09	0.00
249.79	716.82	716.81	-0.01	716.81	0.00
249.76	716.48	716.47	-0.01	716.47	0.00
249.5 AH	716.58	716.57	-0.01	716.57	0.00
249.1	716.35	716.34	-0.01	716.34	0.00
249	715.83	715.82	-0.01	715.82	0.00
248.3	715.81	715.8	-0.01	715.8	0.00
247.5 AG	715.89	715.88	-0.01	715.88	0.00
247.1	715.7	715.69	-0.01	715.69	0.00
246.8	715.67	715.66	-0.01	715.66	0.00
246.39	715.68	715.67	-0.01	715.66	-0.01
246.37	715.43	715.42	-0.01	715.42	0.00
246.35	715.36	715.35	-0.01	715.35	0.00
246.33	715.38	715.37	-0.01	715.37	0.00
246.31	715.33	715.32	-0.01	715.32	0.00
246.29	715.3	715.29	-0.01	715.29	0.00
246.27	715.32	715.3	-0.02	715.3	0.00
245.46	715.22	715.21	-0.01	715.21	0.00
245.44	715.08	715.07	-0.01	715.07	0.00
245.42	715.03	715.02	-0.01	715.02	0.00
245.4	714.85	714.84	-0.01	714.83	-0.01
245.38	714.84	714.83	-0.01	714.82	-0.01
245.36	714.83	714.81	-0.02	714.81	0.00
245.34	714.84	714.82	-0.02	714.82	0.00
245.32	714.85	714.83	-0.02	714.83	0.00
245.3	714.79	714.78	-0.01	714.78	0.00
245.28	714.79	714.78	-0.01	714.78	0.00
245.26	714.78	714.77	-0.01	714.77	0.00
245.24	714.77	714.76	-0.01	714.75	-0.01
245.22	714.76	714.75	-0.01	714.75	0.00
245.127		714.53		714.53	0.00
245.119		714.51		714.51	0.00
245.111		714.5		714.5	0.00
245.097		714.47		714.47	0.00
245.09		714.46		714.46	0.00
245.082		714.44		714.44	0.00

River Station	2015 Model (1)	Baseline Model (2)		Proposed Model (3)	
	Water Surface Elev. (ft.)	Water Surface Elev. (ft.)	Delta (2-1)	Water Surface Elev. (ft.)	Delta (3-2)
245.076		714.42		714.42	0.00
245.067		714.4		714.4	0.00
245.06		714.37		714.37	0.00
245 / 245.057 AE	714.39	714.36	-0.030	714.36	0.00
245.05		714.33		714.33	0.00
245.04		714.27		714.27	0.00
245.033		714.23		714.23	0.00
245.023		714.21		714.21	0.00

Appendices

Appendix A – HEC-RAS Output

Appendix B – Select Project Plans

Appendix C – No-Rise Certification



APPENDIX A

HEC-RAS OUTPUT



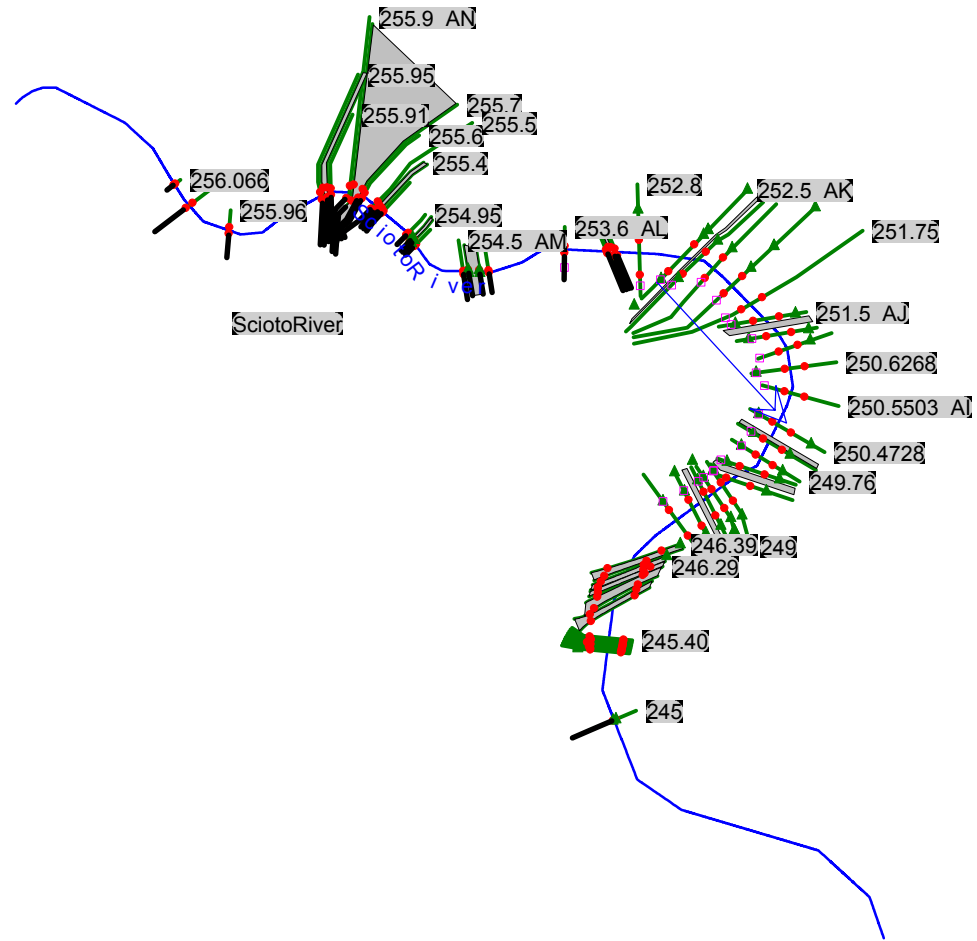
COMPARISON TABLE

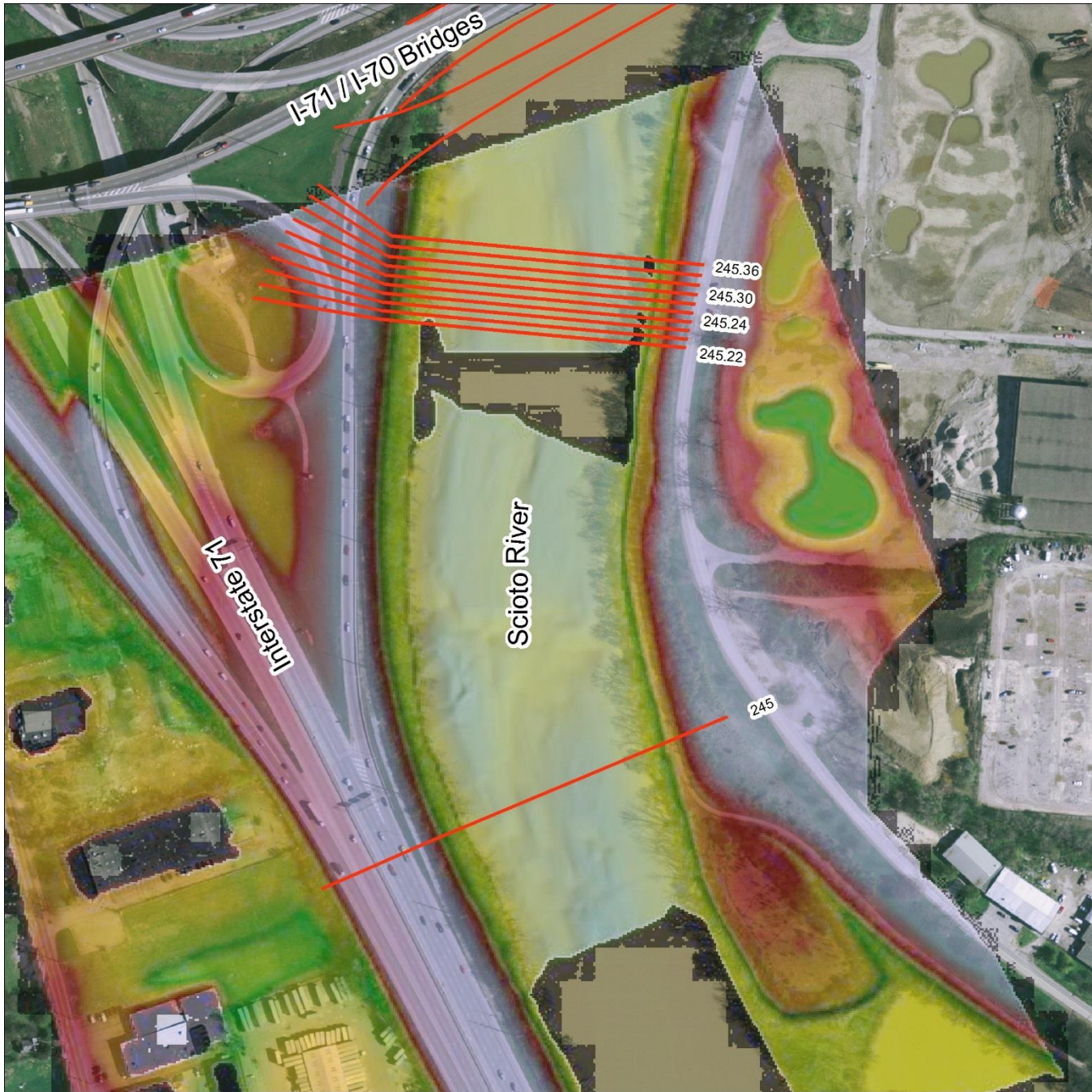
		2015 Model (1)		Updated Existing Conditions (2)			Proposed Conditions		
			W.S. Elev		W.S. Elev	Delta		W.S. Elev	Delta
Reach	Profile	River Sta	NAVD88	River Sta	NAVD88	(1-2)	River Sta	NAVD88	(2-3)
SciotoRiver	100-Year	256.066	724.83	256.066	724.83	0.00	256.066	724.83	0.00
SciotoRiver	100-Year	256	724.8	256	724.8	0.00	256	724.8	0.00
SciotoRiver	100-Year	255.96	724.74	255.96	724.73	-0.01	255.96	724.73	0.00
SciotoRiver	100-Year	255.95	723.66	255.95	723.66	0.00	255.95	723.66	0.00
SciotoRiver	100-Year	255.94	724.03	255.94	724.03	0.00	255.94	724.03	0.00
SciotoRiver	100-Year	255.92	723.38	255.92	723.37	-0.01	255.92	723.37	0.00
SciotoRiver	100-Year	255.91	723.39	255.91	723.39	0.00	255.91	723.39	0.00
SciotoRiver	100-Year	255.9 AN	723.21	255.9 AN	723.21	0.00	255.9 AN	723.21	0.00
SciotoRiver	100-Year	255.8	723.49	255.8	723.49	0.00	255.8	723.49	0.00
SciotoRiver	100-Year	255.7	722.75	255.7	722.75	0.00	255.7	722.75	0.00
SciotoRiver	100-Year	255.6	722.72	255.6	722.71	-0.01	255.6	722.71	0.00
SciotoRiver	100-Year	255.5	722.57	255.5	722.56	-0.01	255.5	722.56	0.00
SciotoRiver	100-Year	255.4	722.91	255.4	722.91	0.00	255.4	722.9	-0.01
SciotoRiver	100-Year	255.2	721.96	255.2	721.96	0.00	255.2	721.95	-0.01
SciotoRiver	100-Year	255.1	721.75	255.1	721.75	0.00	255.1	721.75	0.00
SciotoRiver	100-Year	254.95	721.86	254.95	721.85	-0.01	254.95	721.85	0.00
SciotoRiver	100-Year	254.94	721.73	254.94	721.73	0.00	254.94	721.73	0.00
SciotoRiver	100-Year	254.92	721.63	254.92	721.62	-0.01	254.92	721.62	0.00
SciotoRiver	100-Year	254.91	721.11	254.91	721.11	0.00	254.91	721.11	0.00
SciotoRiver	100-Year	254.5 AM	720.75	254.5 AM	720.75	0.00	254.5 AM	720.74	-0.01
SciotoRiver	100-Year	254.4	720.73	254.4	720.73	0.00	254.4	720.73	0.00
SciotoRiver	100-Year	254.2	720.4	254.2	720.4	0.00	254.2	720.39	-0.01
SciotoRiver	100-Year	254.1	720.33	254.1	720.33	0.00	254.1	720.32	-0.01
SciotoRiver	100-Year	253.6 AL	720.32	253.6 AL	720.31	-0.01	253.6 AL	720.31	0.00
SciotoRiver	100-Year	253.5	719.89	253.5	719.88	-0.01	253.5	719.88	0.00
SciotoRiver	100-Year	253.4	719.97	253.4	719.96	-0.01	253.4	719.96	0.00
SciotoRiver	100-Year	253.2	719.92	253.2	719.92	0.00	253.2	719.92	0.00
SciotoRiver	100-Year	253.1	719.91	253.1	719.91	0.00	253.1	719.9	-0.01
SciotoRiver	100-Year	252.8	719.77	252.8	719.76	-0.01	252.8	719.76	0.00
SciotoRiver	100-Year	252.5 AK	719.73	252.5 AK	719.72	-0.01	252.5 AK	719.72	0.00
SciotoRiver	100-Year	252.1	719.32	252.1	719.31	-0.01	252.1	719.31	0.00
SciotoRiver	100-Year	252.06	719.17	252.06	719.16	-0.01	252.06	719.16	0.00
SciotoRiver	100-Year	251.8	718.79	251.8	718.79	0.00	251.8	718.79	0.00
SciotoRiver	100-Year	251.75	718.74	251.75	718.73	-0.01	251.75	718.73	0.00
SciotoRiver	100-Year	251.5 AJ	718.65	251.5 AJ	718.64	-0.01	251.5 AJ	718.64	0.00
SciotoRiver	100-Year	251.1	718.17	251.1	718.16	-0.01	251.1	718.16	0.00
SciotoRiver	100-Year	250.776	717.78	250.776	717.77	-0.01	250.776	717.77	0.00
SciotoRiver	100-Year	250.6268	717.49	250.6268	717.48	-0.01	250.6268	717.48	0.00
SciotoRiver	100-Year	250.5503 AI	717.39	250.5503 AI	717.39	0.00	250.5503 AI	717.38	-0.01
SciotoRiver	100-Year	250.4728	717.1	250.4728	717.09	-0.01	250.4728	717.09	0.00
SciotoRiver	100-Year	249.79	716.82	249.79	716.81	-0.01	249.79	716.81	0.00
SciotoRiver	100-Year	249.76	716.48	249.76	716.47	-0.01	249.76	716.47	0.00
SciotoRiver	100-Year	249.5 AH	716.58	249.5 AH	716.57	-0.01	249.5 AH	716.57	0.00
SciotoRiver	100-Year	249.1	716.35	249.1	716.34	-0.01	249.1	716.34	0.00
SciotoRiver	100-Year	249	715.83	249	715.82	-0.01	249	715.82	0.00
SciotoRiver	100-Year	248.3	715.81	248.3	715.8	-0.01	248.3	715.8	0.00

COMPARISON TABLE

		2015 Model (1)		Updated Existing Conditions (2)			Proposed Conditions		
		W.S. Elev		W.S. Elev		Delta	W.S. Elev		Delta
Reach	Profile	River Sta	NAVD88	River Sta	NAVD88	(1-2)	River Sta	NAVD88	(2-3)
SciotoRiver	100-Year	247.5 AG	715.89	247.5 AG	715.88	-0.01	247.5 AG	715.88	0.00
SciotoRiver	100-Year	247.1	715.7	247.1	715.69	-0.01	247.1	715.69	0.00
SciotoRiver	100-Year	246.8	715.67	246.8	715.66	-0.01	246.8	715.66	0.00
SciotoRiver	100-Year	246.39	715.68	246.39	715.67	-0.01	246.39	715.66	-0.01
SciotoRiver	100-Year	246.37	715.43	246.37	715.42	-0.01	246.37	715.42	0.00
SciotoRiver	100-Year	246.35	715.36	246.35	715.35	-0.01	246.35	715.35	0.00
SciotoRiver	100-Year	246.33	715.38	246.33	715.37	-0.01	246.33	715.37	0.00
SciotoRiver	100-Year	246.31	715.33	246.31	715.32	-0.01	246.31	715.32	0.00
SciotoRiver	100-Year	246.29	715.3	246.29	715.29	-0.01	246.29	715.29	0.00
SciotoRiver	100-Year	246.27	715.32	246.27	715.3	-0.02	246.27	715.3	0.00
SciotoRiver	100-Year	245.46	715.22	245.46	715.21	-0.01	245.46	715.21	0.00
SciotoRiver	100-Year	245.44	715.08	245.44	715.07	-0.01	245.44	715.07	0.00
SciotoRiver	100-Year	245.42	715.03	245.42	715.02	-0.01	245.42	715.02	0.00
SciotoRiver	100-Year	245.4	714.85	245.4	714.84	-0.01	245.4	714.83	-0.01
SciotoRiver	100-Year	245.38	714.84	245.38	714.83	-0.01	245.38	714.82	-0.01
SciotoRiver	100-Year	245.36	714.83	245.36	714.81	-0.02	245.36	714.81	0.00
SciotoRiver	100-Year	245.34	714.84	245.34	714.82	-0.02	245.34	714.82	0.00
SciotoRiver	100-Year	245.32	714.85	245.32	714.83	-0.02	245.32	714.83	0.00
SciotoRiver	100-Year	245.3	714.79	245.3	714.78	-0.01	245.3	714.78	0.00
SciotoRiver	100-Year	245.28	714.79	245.28	714.78	-0.01	245.28	714.78	0.00
SciotoRiver	100-Year	245.26	714.78	245.26	714.77	-0.01	245.26	714.77	0.00
SciotoRiver	100-Year	245.24	714.77	245.24	714.76	-0.01	245.24	714.75	-0.01
SciotoRiver	100-Year	245.22	714.76	245.22	714.75	-0.01	245.22	714.75	0.00
SciotoRiver	100-Year			245.127	714.53		245.127	714.53	0.00
SciotoRiver	100-Year			245.119	714.51		245.119	714.51	0.00
SciotoRiver	100-Year			245.111	714.5		245.111	714.5	0.00
SciotoRiver	100-Year			245.097	714.47		245.097	714.47	0.00
SciotoRiver	100-Year			245.09	714.46		245.09	714.46	0.00
SciotoRiver	100-Year			245.082	714.44		245.082	714.44	0.00
SciotoRiver	100-Year			245.076	714.42		245.076	714.42	0.00
SciotoRiver	100-Year			245.067	714.4		245.067	714.4	0.00
SciotoRiver	100-Year			245.06	714.37		245.06	714.37	0.00
SciotoRiver	100-Year	245	714.39	245.057	714.36	-0.03	245.057	714.36	0.00
SciotoRiver	100-Year			245.05	714.33		245.05	714.33	0.00
SciotoRiver	100-Year			245.04	714.27		245.04	714.27	0.00
SciotoRiver	100-Year			245.033	714.23		245.033	714.23	0.00
SciotoRiver	100-Year			245.023	714.21		245.023	714.21	0.00

2015 MODEL SCHEMATIC





2015 Model

2015 Model Results

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
SciotoRiver	256.066	100-Year	57000	695.9	724.83	706.85	724.93	0.000056	2.54	23139.35	1072.3		0.09
SciotoRiver	256.066	10-Year	28900	695.9	716.35	704.99	716.42	0.000071	2.08	14151.58	1047.51		0.1
SciotoRiver	256.066	50-Year	47500	695.9	722.13	706.26	722.22	0.00006	2.41	20248.81	1064.39		0.1
SciotoRiver	256.066	500-Year	87000	695.9	731.58	708.44	731.71	0.000051	2.87	39018.46	4064.65		0.09
SciotoRiver	256	100-Year	57000	696.7	724.8	707.65	724.91	0.000064	2.63	22250.78	1069.88		0.1
SciotoRiver	256	10-Year	28900	696.7	716.32	705.79	716.39	0.000087	2.21	13275.66	1045.06		0.11
SciotoRiver	256	50-Year	47500	696.7	722.1	707.06	722.19	0.000069	2.51	19364.72	1061.96		0.1
SciotoRiver	256	500-Year	87000	696.7	731.55	709.24	731.69	0.000057	3	35656.03	4007.46		0.1
SciotoRiver	255.96	100-Year	57000	696.5	724.74	708.15	724.86	0.000087	3.4	23177.83	1084.07		0.12
SciotoRiver	255.96	10-Year	28900	696.5	716.24	705.93	716.33	0.000107	2.88	14036.89	1066.42		0.12
SciotoRiver	255.96	50-Year	47500	696.5	722.03	707.5	722.14	0.000092	3.26	20246.68	1078.44		0.12
SciotoRiver	255.96	500-Year	87000	696.5	731.45	709.88	731.63	0.000099	4.26	33381.89	2504.3		0.13
SciotoRiver	255.95	100-Year	57000	691.4	723.66	711.09	724.53	0.00055	7.74	8042.75	395.5		0.28
SciotoRiver	255.95	10-Year	28900	691.4	715.35	706.92	715.97	0.000654	6.4	4812.48	387		0.29
SciotoRiver	255.95	50-Year	47500	691.4	721.01	709.64	721.81	0.000581	7.36	7002.86	387		0.28
SciotoRiver	255.95	500-Year	87000	691.4	730.76	714.71	731.36	0.000334	7.19	23468.3	3482.71		0.23
SciotoRiver	255.94	100-Year	57000	691.4	724.03	711.39	724.35	0.000253	4.85	14552.43	992		0.19
SciotoRiver	255.94	10-Year	28900	691.4	715.5	707.09	715.86	0.000562	4.94	6289.61	944.28		0.26
SciotoRiver	255.94	50-Year	47500	691.4	721.32	709.93	721.64	0.000311	4.87	11878.42	976.81		0.21
SciotoRiver	255.94	500-Year	87000	691.4	731.01	713.9	731.24	0.000146	4.51	34815.78	4207.31		0.15
SciotoRiver	255.93		Bridge										
SciotoRiver	255.92	100-Year	57000	691.4	723.38	711.42	724.18	0.000572	7.2	7928.16	395.66		0.28
SciotoRiver	255.92	10-Year	28900	691.4	715.16	706.92	715.74	0.000778	6.1	4738.04	387		0.31
SciotoRiver	255.92	50-Year	47500	691.4	720.77	709.74	721.5	0.000621	6.88	6907.5	387		0.29
SciotoRiver	255.92	500-Year	87000	691.4	730.63	714.51	731.14	0.000301	6.39	24553.42	3987.32		0.21
SciotoRiver	255.91	100-Year	57000	691.4	723.39	711.42	724.14	0.000512	7	8559.7	509.09		0.27
SciotoRiver	255.91	10-Year	28900	691.4	715.12	706.92	715.7	0.00076	6.11	4761.39	415.08		0.31
SciotoRiver	255.91	50-Year	47500	691.4	720.76	709.74	721.46	0.000573	6.77	7266.38	473.38		0.28
SciotoRiver	255.91	500-Year	87000	691.4	730.71	714.58	731.09	0.000233	5.79	28039.34	3993.9		0.19
SciotoRiver	255.9	AN100-Year	57000	691.4	723.21	711.38	723.99	0.00057	7.15	8197.98	452.13		0.28
SciotoRiver	255.9	AN10-Year	28900	691.4	714.89	706.92	715.49	0.000834	6.23	4664.42	403.75		0.32
SciotoRiver	255.9	AN50-Year	47500	691.4	720.57	709.77	721.3	0.00063	6.88	7035.62	430.99		0.29
SciotoRiver	255.9	AN500-Year	87000	691.4	730.52	714.55	731.01	0.000295	6.31	23189.12	3372.97		0.21
SciotoRiver	255.8	100-Year	57000	691.4	723.49	711.38	723.83	0.000276	4.98	13612.32	942.74		0.2
SciotoRiver	255.8	10-Year	28900	691.4	714.98	707.09	715.37	0.000646	5.16	5939.33	604.98		0.28
SciotoRiver	255.8	50-Year	47500	691.4	720.8	709.95	721.15	0.000343	5.02	11107.76	923.94		0.22
SciotoRiver	255.8	500-Year	87000	691.4	730.69	713.88	730.92	0.000147	4.5	32800.63	4032.33		0.15
SciotoRiver	255.75		Bridge										
SciotoRiver	255.7	100-Year	57000	691.4	722.75	711.42	723.61	0.000634	7.43	7681.02	395.09		0.29
SciotoRiver	255.7	10-Year	28900	691.4	714.52	706.92	715.17	0.000927	6.44	4490.54	387		0.33
SciotoRiver	255.7	50-Year	47500	691.4	720.16	709.74	720.94	0.000694	7.12	6670.87	387		0.3
SciotoRiver	255.7	500-Year	87000	691.4	730.12	714.51	730.72	0.000349	6.8	22551.04	3886.4		0.23
SciotoRiver	255.6	100-Year	57000	691.4	722.72	711.42	723.58	0.000605	7.44	7668.26	395.5		0.29
SciotoRiver	255.6	10-Year	28900	691.4	714.47	706.92	715.12	0.000913	6.46	4470.92	386.95		0.34
SciotoRiver	255.6	50-Year	47500	691.4	720.12	709.74	720.91	0.000667	7.14	6656.6	386.99		0.3
SciotoRiver	255.6	500-Year	87000	691.4	730.17	714.52	730.68	0.000295	6.43	24922.35	3868.27		0.22

2015 Model Results

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
SciotoRiver	255.5	100-Year	57000	691.4	722.57	711.36	723.44	0.000654	7.5	7608.6	395.5		0.3
SciotoRiver	255.5	10-Year	28900	691.4	714.23	706.92	714.91	0.001007	6.6	4378.24	387		0.35
SciotoRiver	255.5	50-Year	47500	691.4	719.95	709.77	720.76	0.000722	7.21	6591.68	387		0.31
SciotoRiver	255.5	500-Year	87000	691.4	730.02	714.51	730.6	0.000346	6.75	21003.51	3225.24		0.23
SciotoRiver	255.4	100-Year	57000	691.4	722.91	711.37	723.26	0.0003	5.09	13064.92	935.71		0.21
SciotoRiver	255.4	10-Year	28900	691.4	714.35	707.09	714.79	0.000773	5.47	5561	594.9		0.3
SciotoRiver	255.4	50-Year	47500	691.4	720.23	709.96	720.6	0.000384	5.18	10574.82	920.71		0.23
SciotoRiver	255.4	500-Year	87000	691.4	730.25	713.83	730.48	0.000151	4.5	31074.08	3894.55		0.16
SciotoRiver	255.3		Bridge										
SciotoRiver	255.2	100-Year	57000	691.4	721.96	711.39	722.89	0.000726	7.73	7369.4	387		0.31
SciotoRiver	255.2	10-Year	28900	691.4	713.77	706.93	714.5	0.00115	6.88	4198.39	385.72		0.37
SciotoRiver	255.2	50-Year	47500	691.4	719.4	709.64	720.26	0.000803	7.45	6378.3	387		0.32
SciotoRiver	255.2	500-Year	87000	691.4	729.67	714.53	730.28	0.000374	6.86	20633.97	3784.03		0.24
SciotoRiver	255.1	100-Year	57000	691.4	721.75	711.13	722.82	0.000689	8.56	7289.55	387		0.32
SciotoRiver	255.1	10-Year	28900	691.4	713.58	706.93	714.42	0.00097	7.42	4128.84	383.93		0.35
SciotoRiver	255.1	50-Year	47500	691.4	719.2	709.63	720.18	0.00075	8.22	6300.06	386.98		0.33
SciotoRiver	255.1	500-Year	87000	691.4	729.67	714.79	730.25	0.000325	7.23	22638.47	3707.21		0.23
SciotoRiver	254.95	100-Year	57000	693.3	721.86	707.61	722.33	0.000283	5.6	10770.96	576.48		0.21
SciotoRiver	254.95	10-Year	28900	693.3	713.59	703.43	713.92	0.000355	4.59	6400.75	491.98		0.22
SciotoRiver	254.95	50-Year	47500	693.3	719.27	706.58	719.71	0.000301	5.31	9307.88	546.5		0.21
SciotoRiver	254.95	500-Year	87000	693.3	729.62	710.21	730.08	0.000201	5.76	22570.81	2646.11		0.19
SciotoRiver	254.94	100-Year	57000	693.4	721.73	707.73	722.3	0.000369	6.04	9442.58	450.53		0.23
SciotoRiver	254.94	10-Year	28900	693.4	713.5	703.54	713.88	0.000426	4.95	5836.66	424.12		0.24
SciotoRiver	254.94	50-Year	47500	693.4	719.16	706.74	719.67	0.000384	5.73	8291.26	443.33		0.23
SciotoRiver	254.94	500-Year	87000	693.4	729.54	710.57	730.05	0.0003	5.95	19924.57	2554.53		0.21
SciotoRiver	254.93		Bridge										
SciotoRiver	254.92	100-Year	57000	693.4	721.63	707.73	722.2	0.000375	6.07	9394.19	450.31		0.23
SciotoRiver	254.92	10-Year	28900	693.4	713.4	703.54	713.79	0.000436	4.99	5795.6	423.79		0.24
SciotoRiver	254.92	50-Year	47500	693.4	719.06	706.74	719.57	0.000391	5.76	8244.95	442.97		0.24
SciotoRiver	254.92	500-Year	87000	693.4	729.43	710.57	729.95	0.000307	6	19624.99	2515.92		0.21
SciotoRiver	254.91	100-Year	57000	686.8	721.11	710.21	722.13	0.000679	8.17	7818.05	678.84		0.32
SciotoRiver	254.91	10-Year	28900	686.8	712.96	706.42	713.72	0.000971	7	4201.5	364.82		0.35
SciotoRiver	254.91	50-Year	47500	686.8	718.56	708.96	719.5	0.000747	7.85	6319.48	391.87		0.33
SciotoRiver	254.91	500-Year	87000	686.8	728.93	713.47	729.88	0.000453	8.27	13421.4	745.44		0.27
SciotoRiver	254.5	AN 100-Year	57000	687	720.75	709.38	721.58	0.000587	7.35	7972.89	431.77		0.29
SciotoRiver	254.5	AN 10-Year	28900	687	712.3	705.83	712.96	0.000902	6.51	4486.36	393.69		0.33
SciotoRiver	254.5	AN 50-Year	47500	687	718.13	708.34	718.91	0.000647	7.09	6858.64	419.97		0.3
SciotoRiver	254.5	AN 500-Year	87000	687	728.57	712.27	729.53	0.000454	7.91	11499.25	484.79		0.27
SciotoRiver	254.4	100-Year	57000	685.4	720.73	709.06	721.53	0.000618	7.13	7989.01	436.42		0.29
SciotoRiver	254.4	10-Year	28900	685.4	712.26	705.34	712.89	0.000872	6.37	4536.93	381.72		0.33
SciotoRiver	254.4	50-Year	47500	685.4	718.11	707.94	718.85	0.000674	6.92	6860.08	419		0.3
SciotoRiver	254.4	500-Year	87000	685.4	728.59	712.1	729.47	0.000469	7.55	11543.59	490.54		0.27
SciotoRiver	254.3		Bridge										
SciotoRiver	254.2	100-Year	57000	685.4	720.4	709.06	721.22	0.000655	7.27	7843.72	435.36		0.3
SciotoRiver	254.2	10-Year	28900	685.4	711.88	705.34	712.55	0.000964	6.58	4393.93	380.08		0.34
SciotoRiver	254.2	50-Year	47500	685.4	717.78	707.94	718.55	0.000714	7.07	6723.15	416.09		0.31

2015 Model Results

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
SciotoRiver	254.2	500-Year	87000	685.4	728.03	712.1	728.94	0.000497	7.68	11734.13	640.45		0.27
SciotoRiver	254.1	100-Year	57000	685.5	720.33	708.82	721.15	0.000558	7.3	8095.82	436.87		0.29
SciotoRiver	254.1	10-Year	28900	685.5	711.79	703.9	712.43	0.000903	6.46	4523.36	398.24		0.33
SciotoRiver	254.1	50-Year	47500	685.5	717.71	707.74	718.47	0.000619	7.01	6964.83	425.76		0.29
SciotoRiver	254.1	500-Year	87000	685.5	727.92	711.76	728.88	0.000438	7.98	11734.83	583.14		0.27
SciotoRiver	253.6	AL 100-Year	75000	693	720.32	704.19	720.73	0.000213	5.14	15047.44	680.81		0.19
SciotoRiver	253.6	AL 10-Year	36800	693	711.7	701.05	711.94	0.000231	3.98	9359.41	638.14		0.18
SciotoRiver	253.6	AL 50-Year	62100	693	717.68	703.2	718.04	0.000217	4.8	13266.31	668.16		0.18
SciotoRiver	253.6	AL 500-Year	114000	693	727.96	706.76	728.49	0.000193	5.88	21006.82	985.66		0.18
SciotoRiver	253.5	100-Year	75000	693.1	719.89	705.45	720.54	0.000352	6.53	11974.31	555.24		0.24
SciotoRiver	253.5	10-Year	36800	693.1	711.35	701.94	711.75	0.000388	5.09	7384.68	520.11		0.23
SciotoRiver	253.5	50-Year	62100	693.1	717.28	704.36	717.85	0.00036	6.11	10538.72	544.5		0.24
SciotoRiver	253.5	500-Year	114000	693.1	727.53	708.43	728.32	0.000303	7.31	19363.84	1644.08		0.23
SciotoRiver	253.4	100-Year	75000	691.4	719.97	705.29	720.48	0.000317	5.74	13055.25	603.06		0.22
SciotoRiver	253.4	10-Year	36800	691.4	711.39	702.07	711.71	0.000356	4.59	8016.89	573.68		0.22
SciotoRiver	253.4	50-Year	62100	691.4	717.34	704.28	717.8	0.000322	5.41	11487.26	590.5		0.22
SciotoRiver	253.4	500-Year	114000	691.4	727.73	707.98	728.22	0.000263	5.83	25937.36	2773.99		0.2
SciotoRiver	253.3	Bridge											
SciotoRiver	253.2	100-Year	75000	691.4	719.92	705.29	720.44	0.000319	5.76	13026.8	602.88		0.22
SciotoRiver	253.2	10-Year	36800	691.4	711.35	702.07	711.68	0.000359	4.6	7997.91	573.61		0.22
SciotoRiver	253.2	50-Year	62100	691.4	717.3	704.28	717.76	0.000324	5.42	11462.75	590.48		0.22
SciotoRiver	253.2	500-Year	114000	691.4	727.54	707.98	728.09	0.000286	6.07	22588.06	2227.63		0.21
SciotoRiver	253.1	100-Year	75000	691.4	719.91	705.29	720.42	0.000315	5.72	13116.52	605.94		0.22
SciotoRiver	253.1	10-Year	36800	691.4	711.34	702.04	711.66	0.000357	4.57	8056.14	580.55		0.22
SciotoRiver	253.1	50-Year	62100	691.4	717.29	704.28	717.74	0.00032	5.38	11548.86	592		0.21
SciotoRiver	253.1	500-Year	114000	691.4	727.48	707.95	728.07	0.000264	6.25	20960.4	2107.92		0.21
SciotoRiver	252.8	100-Year	75000	692.84	719.77	703.91	720.34	0.000242	6.14	13557.09	935.37		0.22
SciotoRiver	252.8	10-Year	36800	692.84	711.24	700.22	711.58	0.000245	4.68	8024.06	558.47		0.2
SciotoRiver	252.8	50-Year	62100	692.84	717.16	702.74	717.66	0.000242	5.71	11586.53	647.52		0.21
SciotoRiver	252.8	500-Year	114000	692.84	727.38	706.95	728	0.000198	6.63	20936.38	1321.39		0.2
SciotoRiver	252.5	AK 100-Year	75000	687	719.73	701.38	720.14	0.000161	5.27	15811.92	1220.04		0.18
SciotoRiver	252.5	AK 10-Year	36800	687	711.17	697.14	711.42	0.000155	3.99	9719.3	683.99		0.16
SciotoRiver	252.5	AK 50-Year	62100	687	717.12	700.17	717.47	0.00016	4.91	13899.47	806.28		0.18
SciotoRiver	252.5	AK 500-Year	114000	687	727.34	704.75	727.84	0.00015	5.98	21786.58	1626.55		0.18
SciotoRiver	252.3	Bridge											
SciotoRiver	252.1	100-Year	75000	691.49	719.32	705.47	719.95	0.0003	6.66	12726.37	1004.24		0.24
SciotoRiver	252.1	10-Year	36800	691.49	710.78	701.25	711.24	0.00037	5.5	7168.7	644.16		0.25
SciotoRiver	252.1	50-Year	62100	691.49	716.71	704.21	717.29	0.000316	6.32	10977.12	822.05		0.24
SciotoRiver	252.1	500-Year	114000	691.49	726.7	709.1	727.45	0.000257	7.37	17796.91	1583.61		0.23
SciotoRiver	252.06	100-Year	75000	687	719.17	703.18	719.86	0.000285	6.91	12082.38	687.59		0.24
SciotoRiver	252.06	10-Year	36800	687	710.71	697.68	711.14	0.000277	5.28	7321.37	504.68		0.22
SciotoRiver	252.06	50-Year	62100	687	716.59	701.64	717.2	0.000285	6.46	10557.2	657.23		0.23
SciotoRiver	252.06	500-Year	114000	687	726.64	706.99	727.38	0.000239	7.46	20659.71	1471.11		0.23
SciotoRiver	251.8	100-Year	75000	691.95	718.79	705.59	719.72	0.000416	8	10470.86	553.4		0.28
SciotoRiver	251.8	10-Year	36800	691.95	710.39	700.87	711	0.000456	6.35	6176.9	478.94		0.28
SciotoRiver	251.8	50-Year	62100	691.95	716.23	704.07	717.06	0.000426	7.53	9090.76	524.72		0.28

2015 Model Results

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
SciotoRiver	251.8	500-Year	114000	691.95	726.2	709.61	727.25	0.000355	8.8	16657.75	1285.94		0.27
SciotoRiver	251.75	100-Year	75000	682	718.74	703.9	719.54	0.000362	7.53	11572.95	620.04		0.26
SciotoRiver	251.75	10-Year	36800	682	710.31	698.98	710.82	0.000366	5.87	6819.7	519.77		0.24
SciotoRiver	251.75	50-Year	62100	682	716.17	702.28	716.88	0.000362	7.04	10048.01	577.47		0.25
SciotoRiver	251.75	500-Year	114000	682	726.17	708.15	727.09	0.000318	8.32	16901.85	817.08		0.25
SciotoRiver	251.5	AJ 100-Year	75000	691.94	718.65	705.56	719.43	0.000362	7.54	11707.73	634.16		0.27
SciotoRiver	251.5	AJ 10-Year	36800	691.94	710.15	700.65	710.7	0.000417	6.14	6650.31	534.67		0.27
SciotoRiver	251.5	AJ 50-Year	62100	691.94	716.07	703.88	716.78	0.000375	7.14	10100.14	607.78		0.27
SciotoRiver	251.5	AJ 500-Year	114000	691.94	726.09	709.18	727	0.00031	8.29	16629.25	721.78		0.26
SciotoRiver	251.3	Bridge											
SciotoRiver	251.1	100-Year	75000	688.4	718.17	704.43	718.96	0.000348	7.58	11327.7	594.68		0.26
SciotoRiver	251.1	10-Year	36800	688.4	709.95	699.14	710.47	0.000355	5.96	6747.65	503.4		0.25
SciotoRiver	251.1	50-Year	62100	688.4	715.7	702.58	716.42	0.000351	7.13	9879.72	580.75		0.26
SciotoRiver	251.1	500-Year	114000	688.4	724.98	708.31	725.96	0.000327	8.57	15531.08	627.39		0.26
SciotoRiver	250.776	100-Year	75000	685	717.78	704.72	718.8	0.000467	8.64	10278.93	553.36		0.29
SciotoRiver	250.776	10-Year	36800	685	709.69	698.72	710.34	0.000443	6.64	6139.22	455.22		0.27
SciotoRiver	250.776	50-Year	62100	685	715.36	702.5	716.26	0.000461	8.07	8964.47	533.09		0.29
SciotoRiver	250.776	500-Year	114000	685	724.49	708.86	725.78	0.000458	9.92	14357.23	717.54		0.3
SciotoRiver	250.6268	100-Year	75000	691.02	717.49	705.41	718.64	0.000583	9.21	9840.81	593.42		0.32
SciotoRiver	250.6268	10-Year	36800	691.02	709.29	700.25	710.16	0.000664	7.6	5303.17	520.31		0.32
SciotoRiver	250.6268	50-Year	62100	691.02	715.03	703.83	716.1	0.000603	8.76	8413.95	568.18		0.32
SciotoRiver	250.6268	500-Year	114000	691.02	724.35	710.96	725.65	0.000506	10.05	14136.05	656.89		0.31
SciotoRiver	250.5503	100-Year	75000	685	717.39	704.53	718.41	0.000477	8.62	10355.96	588.83		0.3
SciotoRiver	250.5503	10-Year	36800	685	709.22	698.81	709.9	0.000482	6.77	5994.14	461.44		0.28
SciotoRiver	250.5503	50-Year	62100	685	714.95	702.49	715.86	0.000478	8.09	8942.52	541.02		0.29
SciotoRiver	250.5503	500-Year	114000	685	724.24	708.78	725.45	0.000441	9.66	14533.94	657.33		0.3
SciotoRiver	250.4728	100-Year	75000	691.05	717.1	705.52	718.16	0.000495	8.77	9959.41	543.41		0.31
SciotoRiver	250.4728	10-Year	36800	691.05	708.89	699.97	709.62	0.000546	7.06	5768.57	464.31		0.3
SciotoRiver	250.4728	50-Year	62100	691.05	714.64	703.6	715.6	0.000508	8.29	8643.76	527		0.31
SciotoRiver	250.4728	500-Year	114000	691.05	723.95	709.3	725.22	0.000446	9.78	13912.88	627.35		0.31
SciotoRiver	250.4469	Bridge											
SciotoRiver	249.79	100-Year	75000	690.25	716.82	704.79	717.82	0.000464	8.54	10370.41	564.54		0.3
SciotoRiver	249.79	10-Year	36800	690.25	708.68	699.2	709.36	0.000491	6.78	6036.74	491.35		0.29
SciotoRiver	249.79	50-Year	62100	690.25	714.39	702.8	715.29	0.00047	8.04	9018.04	548.09		0.3
SciotoRiver	249.79	500-Year	114000	690.25	723.51	708.63	724.73	0.000429	9.61	14204.97	613.6		0.3
SciotoRiver	249.76	100-Year	75000	684	716.48	704.14	717.65	0.00052	9.17	9531.38	528.4		0.32
SciotoRiver	249.76	10-Year	36800	684	708.48	698.47	709.22	0.000502	7.05	5729.71	421.73		0.29
SciotoRiver	249.76	50-Year	62100	684	714.07	702.36	715.13	0.000522	8.61	8279.62	509.27		0.31
SciotoRiver	249.76	500-Year	114000	684	723.17	708.49	724.57	0.000483	10.28	13480.45	630.91		0.32
SciotoRiver	249.5	AH 100-Year	75000	690.05	716.58	702.91	717.38	0.000361	7.52	11535.99	652.25		0.26
SciotoRiver	249.5	AH 10-Year	36800	690.05	708.49	698.32	709.03	0.000381	5.95	6657.64	513.47		0.25
SciotoRiver	249.5	AH 50-Year	62100	690.05	714.15	701.49	714.87	0.00037	7.1	9968.3	636.72		0.26
SciotoRiver	249.5	AH 500-Year	114000	690.05	723.31	706.78	724.26	0.000329	8.4	16065.15	742.64		0.26
SciotoRiver	249.3	Bridge											
SciotoRiver	249.1	100-Year	75000	689.91	716.35	702.91	717.04	0.000326	7.19	12625.69	716.21		0.25

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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
SciotoRiver	249.1	10-Year	36800	689.91	708.37	698.07	708.86	0.000356	5.84	7210.07	637.13		0.25
SciotoRiver	249.1	50-Year	62100	689.91	714	701.37	714.62	0.000331	6.79	10964.9	694.81		0.25
SciotoRiver	249.1	500-Year	114000	689.91	722.29	707.19	723.16	0.000325	8.26	17042.29	1131.28		0.26
SciotoRiver	249	100-Year	75000	689.44	715.83	703.77	716.85	0.000474	8.65	10433.79	825.49		0.3
SciotoRiver	249	10-Year	36800	689.44	708.09	698.38	708.73	0.000455	6.63	6310.13	500.27		0.28
SciotoRiver	249	50-Year	62100	689.44	713.56	702.15	714.46	0.000465	8.04	9173.89	730.03		0.3
SciotoRiver	249	500-Year	114000	689.44	721.51	707.42	722.91	0.000514	10.3	13938.06	990.07		0.33
SciotoRiver	248.3	100-Year	75000	687.79	715.81	702.02	716.76	0.000405	8.2	10621.97	943.94		0.28
SciotoRiver	248.3	10-Year	36800	687.79	708.09	696.98	708.64	0.000354	6.08	6591.1	460.92		0.25
SciotoRiver	248.3	50-Year	62100	687.79	713.54	700.45	714.37	0.000394	7.62	9259.21	820.35		0.27
SciotoRiver	248.3	500-Year	114000	687.79	721.65	706.17	722.75	0.000389	9.19	16165.37	998.66		0.29
SciotoRiver	247.5	AG 100-Year	75000	685.23	715.89	699.82	716.6	0.000283	7.01	12865.94	918.49		0.24
SciotoRiver	247.5	AG 10-Year	36800	685.23	708.14	695.35	708.53	0.000234	5.1	8068.47	579.63		0.2
SciotoRiver	247.5	AG 50-Year	62100	685.23	713.61	698.42	714.21	0.000269	6.44	11393.85	768.95		0.23
SciotoRiver	247.5	AG 500-Year	114000	685.23	721.73	703.67	722.59	0.00029	8.08	19098.69	975.26		0.25
SciotoRiver	247.3	Bridge											
SciotoRiver	247.1	100-Year	75000	682	715.7	699.71	716.33	0.000261	6.59	12525.8	590.91		0.23
SciotoRiver	247.1	10-Year	36800	682	708.01	694.41	708.35	0.000217	4.78	8194.94	535.4		0.19
SciotoRiver	247.1	50-Year	62100	682	713.48	698.29	714.01	0.000246	6.03	11227.02	578.07		0.22
SciotoRiver	247.1	500-Year	114000	682	720.66	703.33	721.63	0.000323	8.22	15551.8	714.45		0.26
SciotoRiver	246.8	100-Year	75000	686.53	715.67	698.96	716.23	0.000224	6.15	13337.18	590.94		0.21
SciotoRiver	246.8	10-Year	36800	686.53	707.98	695.07	708.28	0.00018	4.39	8913.75	562.5		0.18
SciotoRiver	246.8	50-Year	62100	686.53	713.45	697.75	713.92	0.000209	5.6	12038.5	580.69		0.2
SciotoRiver	246.8	500-Year	114000	686.53	720.62	702.22	721.5	0.000284	7.77	16350.75	633.28		0.24
SciotoRiver	246.39	100-Year	75000	684.92	715.68	696.49	715.91	0.000144	3.97	20117.84	894.45		0.14
SciotoRiver	246.39	10-Year	36800	684.92	707.94	693.24	708.06	0.000118	2.87	13451.52	829.22		0.12
SciotoRiver	246.39	50-Year	62100	684.92	713.44	695.5	713.63	0.000135	3.63	18147.62	873.37		0.13
SciotoRiver	246.39	500-Year	114000	684.92	720.69	699.09	721.04	0.000177	4.94	24633.71	914.93		0.15
SciotoRiver	246.38	Bridge											
SciotoRiver	246.37	100-Year	75000	687.47	715.43	699.23	715.84	0.000286	5.38	15394.56	806.62		0.19
SciotoRiver	246.37	10-Year	36800	687.47	707.75	695.68	708.01	0.000273	4.12	9462.26	737.62		0.17
SciotoRiver	246.37	50-Year	62100	687.47	713.21	698.16	713.57	0.000279	5	13623.18	790.84		0.18
SciotoRiver	246.37	500-Year	114000	687.47	720.37	702.14	720.96	0.000332	6.53	19502.83	855.05		0.21
SciotoRiver	246.35	100-Year	75000	688.1	715.36	699.03	715.82	0.000305	5.58	14670.03	769.69		0.19
SciotoRiver	246.35	10-Year	36800	688.1	707.72	695.46	707.99	0.000276	4.18	9199.96	637.24		0.17
SciotoRiver	246.35	50-Year	62100	688.1	713.16	697.98	713.55	0.000296	5.17	13009.41	736.86		0.19
SciotoRiver	246.35	500-Year	114000	688.1	720.28	701.95	720.93	0.000355	6.77	18555.53	797.72		0.22
SciotoRiver	246.34	Bridge											
SciotoRiver	246.33	100-Year	75000	686.21	715.38	697.77	715.75	0.000222	4.92	15423.72	700.21		0.17
SciotoRiver	246.33	10-Year	36800	686.21	707.73	694.32	707.93	0.000203	3.65	10136.87	678.13		0.16
SciotoRiver	246.33	50-Year	62100	686.21	713.17	696.7	713.49	0.000215	4.54	13883.3	694.83		0.17
SciotoRiver	246.33	500-Year	114000	686.21	720.28	700.69	720.86	0.000263	6.08	18870.38	703.83		0.2
SciotoRiver	246.31	100-Year	75000	686.2	715.33	697.91	715.75	0.000263	5.32	15065.81	684.16		0.18
SciotoRiver	246.31	10-Year	36800	686.2	707.71	694.41	707.93	0.000216	3.84	9920.46	650.85		0.16
SciotoRiver	246.31	50-Year	62100	686.2	713.13	696.81	713.48	0.000248	4.88	13565.42	678.78		0.17
SciotoRiver	246.31	500-Year	114000	686.2	720.22	700.75	720.86	0.000326	6.63	18430.46	691.9		0.21

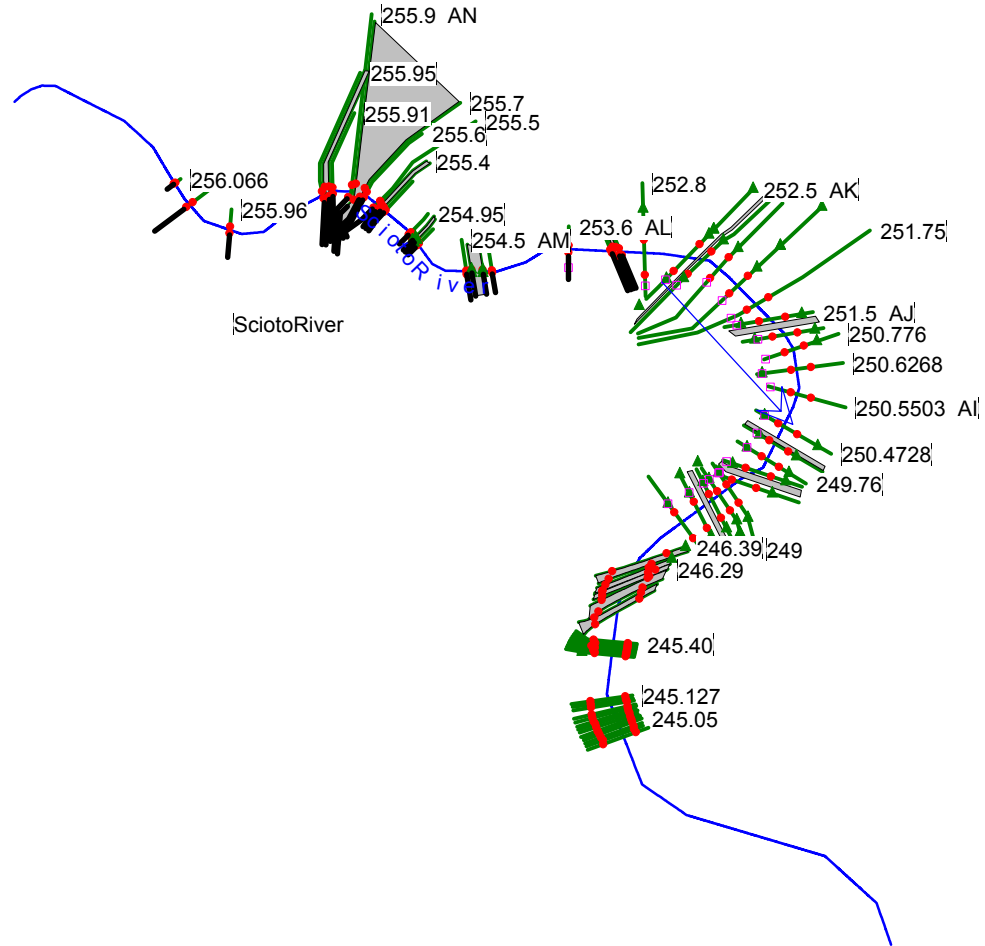
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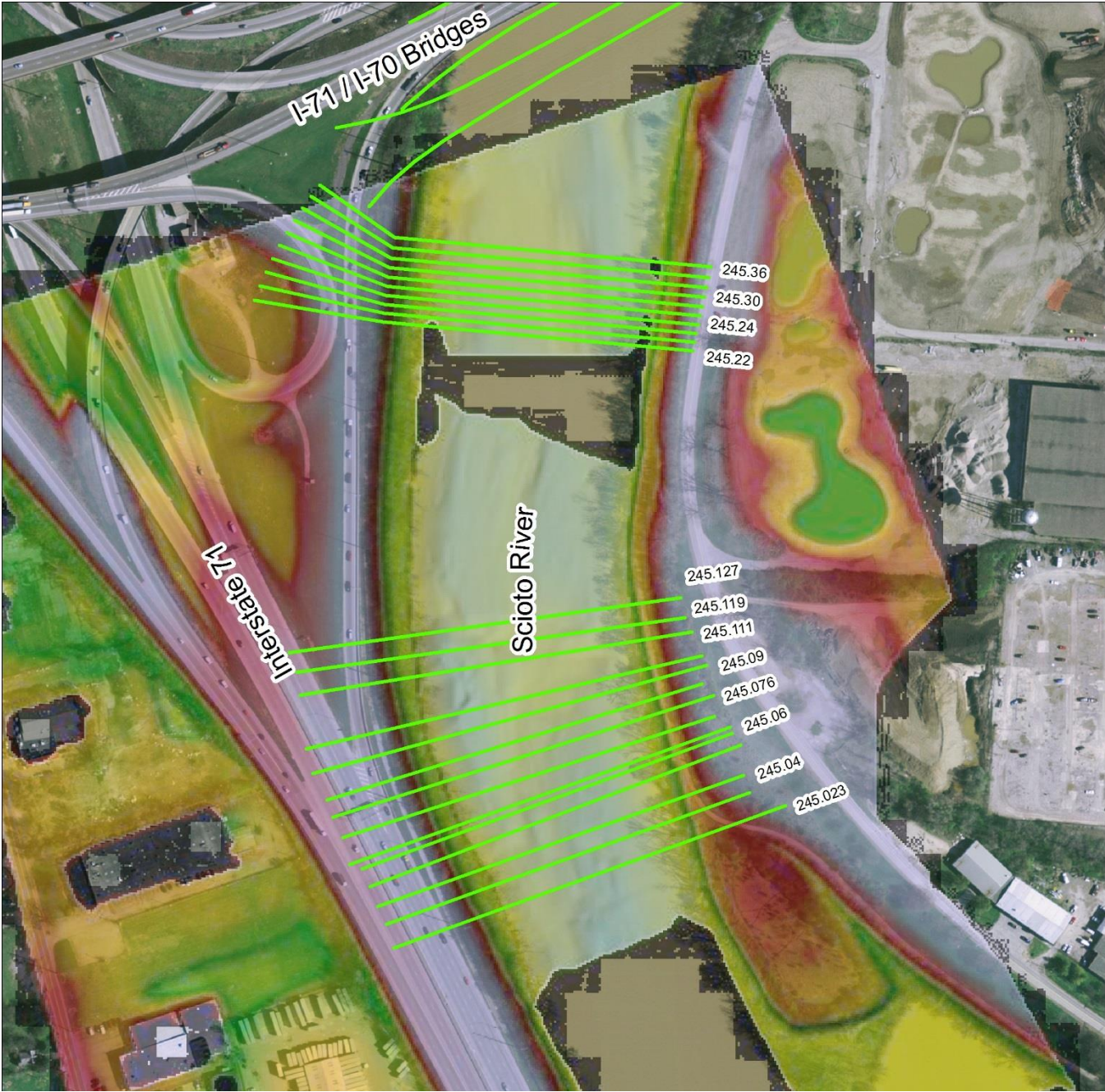
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl
SciotoRiver	246.3		Bridge										
SciotoRiver	246.29	100-Year	75000	685.88	715.3	697.78	715.71	0.000259	5.26	15085.11	676.29		0.18
SciotoRiver	246.29	10-Year	36800	685.88	707.68	694.24	707.9	0.000212	3.79	10021.75	616.52		0.15
SciotoRiver	246.29	50-Year	62100	685.88	713.1	696.69	713.45	0.000244	4.81	13601.34	673.02		0.17
SciotoRiver	246.29	500-Year	114000	685.88	720.17	700.64	720.8	0.000324	6.59	18377.64	679.73		0.21
SciotoRiver	246.27	100-Year	75000	685.83	715.32	697.68	715.69	0.000237	5.05	15861.07	713.29		0.17
SciotoRiver	246.27	10-Year	36800	685.83	707.69	694.29	707.89	0.000196	3.66	10499.35	654.41		0.15
SciotoRiver	246.27	50-Year	62100	685.83	713.11	696.65	713.43	0.000224	4.63	14293.17	711.04		0.17
SciotoRiver	246.27	500-Year	114000	685.83	720.2	700.53	720.77	0.000296	6.32	19364.81	724.01		0.2
SciotoRiver	246		Bridge										
SciotoRiver	245.46	100-Year	75000	685.55	715.22	698.14	715.63	0.000263	5.26	15256.84	714.22		0.18
SciotoRiver	245.46	10-Year	36800	685.55	707.62	694.76	707.84	0.000221	3.83	10042.48	650.71		0.16
SciotoRiver	245.46	50-Year	62100	685.55	713.03	697.11	713.37	0.000249	4.83	13703.1	703.56		0.17
SciotoRiver	245.46	500-Year	114000	685.55	720.07	700.98	720.69	0.000326	6.56	18815.41	752.13		0.21
SciotoRiver	245.44	100-Year	75000	684.87	715.08	699.4	715.59	0.000348	5.81	13516.84	640.84		0.21
SciotoRiver	245.44	10-Year	36800	684.87	707.53	695.88	707.81	0.000306	4.26	8849.57	587.22		0.18
SciotoRiver	245.44	50-Year	62100	684.87	712.91	698.32	713.34	0.000332	5.33	12131.43	631.33		0.2
SciotoRiver	245.44	500-Year	114000	684.87	719.87	702.34	720.64	0.000426	7.23	16632.88	663.97		0.24
SciotoRiver	245.43		Bridge										
SciotoRiver	245.42	100-Year	75000	688.24	715.03	699.08	715.53	0.000339	5.8	13616.11	630.31		0.2
SciotoRiver	245.42	10-Year	36800	688.24	707.5	695.48	707.77	0.00029	4.23	8990.77	586.46		0.18
SciotoRiver	245.42	50-Year	62100	688.24	712.86	697.97	713.28	0.000321	5.32	12260.44	621.26		0.2
SciotoRiver	245.42	500-Year	114000	688.24	719.79	702.08	720.57	0.000422	7.27	16698.28	661.56		0.23
SciotoRiver	245.4	100-Year	75000	683.7	714.85	698.22	715.39	0.000344	6.02	13677.97	613.46		0.21
SciotoRiver	245.4	10-Year	36800	683.7	707.38	694.65	707.66	0.000266	4.22	9251.95	576.36		0.17
SciotoRiver	245.4	50-Year	62100	683.7	712.71	697.14	713.15	0.000317	5.45	12379.92	599.52		0.2
SciotoRiver	245.4	500-Year	114000	683.7	719.51	701.28	720.38	0.00045	7.67	16591.12	638.46		0.24
SciotoRiver	245.38	100-Year	75000	683.85	714.84	698.12	715.38	0.000377	6.05	13739.22	611.87		0.21
SciotoRiver	245.38	10-Year	36800	683.85	707.38	694.47	707.65	0.000288	4.24	9312.62	575.44		0.17
SciotoRiver	245.38	50-Year	62100	683.85	712.7	696.96	713.15	0.000347	5.49	12439.65	602.22		0.2
SciotoRiver	245.38	500-Year	114000	683.85	719.49	701.24	720.37	0.000495	7.72	16637.23	633.04		0.24
SciotoRiver	245.36	100-Year	75000	683.99	714.83	697.95	715.37	0.000375	6.09	13810.28	605.32		0.21
SciotoRiver	245.36	10-Year	36800	683.99	707.37	694.22	707.64	0.000282	4.25	9420.48	568.43		0.17
SciotoRiver	245.36	50-Year	62100	683.99	712.69	696.78	713.14	0.000344	5.52	12525.04	596.77		0.2
SciotoRiver	245.36	500-Year	114000	683.99	719.47	701.13	720.36	0.000495	7.79	16677.79	627.04		0.25
SciotoRiver	245.34	100-Year	75000	684.13	714.84	697.65	715.36	0.000356	5.91	13867.77	597.24		0.2
SciotoRiver	245.34	10-Year	36800	684.13	707.38	694	707.63	0.000267	4.11	9508.88	571.35		0.17
SciotoRiver	245.34	50-Year	62100	684.13	712.7	696.48	713.13	0.000326	5.35	12597.29	589.87		0.19
SciotoRiver	245.34	500-Year	114000	684.13	719.49	700.67	720.34	0.000473	7.58	16725.57	628.13		0.24
SciotoRiver	245.32	100-Year	75000	684.26	714.85	697.54	715.34	0.000342	5.73	13972.02	606.02		0.2
SciotoRiver	245.32	10-Year	36800	684.26	707.38	693.85	707.62	0.000259	3.99	9554.86	574.24		0.16
SciotoRiver	245.32	50-Year	62100	684.26	712.7	696.4	713.11	0.000314	5.19	12681.61	598.21		0.19
SciotoRiver	245.32	500-Year	114000	684.26	719.51	700.57	720.32	0.000452	7.35	16854.54	634.6		0.23
SciotoRiver	245.3	100-Year	75000	684.1	714.79	697.42	715.33	0.00036	6.05	13910.82	608.32		0.2
SciotoRiver	245.3	10-Year	36800	684.1	707.35	693.7	707.62	0.000264	4.18	9517.63	569.75		0.17

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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
SciotoRiver	245.3	50-Year	62100	684.1	712.66	696.25	713.1	0.000329	5.47	12623.44	598.33	0.19	
SciotoRiver	245.3	500-Year	114000	684.1	719.42	700.64	720.3	0.000482	7.76	16767.01	631.15	0.24	
SciotoRiver	245.28	100-Year	75000	684.52	714.79	697.39	715.32	0.000356	5.98	13822.72	628.36	0.2	
SciotoRiver	245.28	10-Year	36800	684.52	707.35	693.73	707.61	0.000262	4.13	9502.77	566.63	0.16	
SciotoRiver	245.28	50-Year	62100	684.52	712.66	696.25	713.1	0.000325	5.4	12558.63	607.33	0.19	
SciotoRiver	245.28	500-Year	114000	684.52	719.42	700.54	720.29	0.000477	7.68	16647.55	686.99	0.24	
SciotoRiver	245.26	100-Year	75000	684.49	714.78	697.35	715.32	0.000355	5.98	13828.21	669.66	0.2	
SciotoRiver	245.26	10-Year	36800	684.49	707.35	693.62	707.61	0.000261	4.13	9489.58	566.77	0.16	
SciotoRiver	245.26	50-Year	62100	684.49	712.65	696.2	713.09	0.000324	5.4	12559.39	652.36	0.19	
SciotoRiver	245.26	500-Year	114000	684.49	719.41	700.5	720.28	0.000475	7.68	16649.33	726.73	0.24	
SciotoRiver	245.24	100-Year	75000	684.12	714.77	697.28	715.31	0.000359	6.06	13884.25	695.07	0.2	
SciotoRiver	245.24	10-Year	36800	684.12	707.34	693.49	707.6	0.000261	4.18	9546.83	568.54	0.16	
SciotoRiver	245.24	50-Year	62100	684.12	712.64	696.08	713.08	0.000327	5.47	12617.13	675.44	0.19	
SciotoRiver	245.24	500-Year	114000	684.12	719.38	700.56	720.27	0.000484	7.8	16694.17	760.66	0.24	
SciotoRiver	245.22	100-Year	75000	683.75	714.76	697.05	715.3	0.000354	6.06	13974.29	711.48	0.2	
SciotoRiver	245.22	10-Year	36800	683.75	707.33	693.25	707.6	0.000254	4.17	9653.73	568.43	0.16	
SciotoRiver	245.22	50-Year	62100	683.75	712.63	695.85	713.08	0.000321	5.47	12715.47	691.4	0.19	
SciotoRiver	245.22	500-Year	114000	683.75	719.37	700.27	720.26	0.00048	7.82	16772.39	795.67	0.24	
SciotoRiver	245	100-Year	75000	684.9	714.39	695.84	714.9	0.000457	5.78	13821.87	600.85	0.19	
SciotoRiver	245	10-Year	36800	684.9	707.07	691.82	707.31	0.000317	3.92	9629.35	529.48	0.15	
SciotoRiver	245	50-Year	62100	684.9	712.3	694.6	712.71	0.000412	5.2	12579.74	585.25	0.18	
SciotoRiver	245	500-Year	114000	684.9	718.87	699.16	719.71	0.000625	7.47	16587.8	634.22	0.23	

UPDATED EXISTING MODEL SCHEMATIC





Updated Existing Model

Updated Existing Condition

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
SciotoRiver	256.066	100-Year	57000	695.9	724.83	706.85	724.93	0.000056	2.54	23135.69	1072.29		0.09
SciotoRiver	256.066	10-Year	28900	695.9	716.35	704.99	716.41	0.000071	2.08	14145.44	1047.49		0.1
SciotoRiver	256.066	50-Year	47500	695.9	722.12	706.26	722.21	0.00006	2.41	20243.48	1064.38		0.1
SciotoRiver	256.066	500-Year	87000	695.9	731.67	708.44	731.79	0.00005	2.85	39353.37	4070.31		0.09
SciotoRiver	256	100-Year	57000	696.7	724.8	707.65	724.91	0.000064	2.63	22247.19	1069.87		0.1
SciotoRiver	256	10-Year	28900	696.7	716.31	705.79	716.39	0.000087	2.21	13269.47	1045.04		0.11
SciotoRiver	256	50-Year	47500	696.7	722.09	707.06	722.19	0.000069	2.51	19359.47	1061.95		0.1
SciotoRiver	256	500-Year	87000	696.7	731.63	709.24	731.77	0.000057	2.98	35987.45	4013.14		0.1
SciotoRiver	255.96	100-Year	57000	696.5	724.73	708.15	724.86	0.000087	3.41	23174.12	1084.06		0.12
SciotoRiver	255.96	10-Year	28900	696.5	716.23	705.93	716.32	0.000107	2.88	14030.38	1066.4		0.12
SciotoRiver	255.96	50-Year	47500	696.5	722.02	707.5	722.13	0.000092	3.26	20241.15	1078.43		0.12
SciotoRiver	255.96	500-Year	87000	696.5	731.53	709.88	731.71	0.000098	4.24	33592.68	2504.3		0.13
SciotoRiver	255.95	100-Year	57000	691.4	723.66	711.09	724.53	0.00055	7.74	8041.23	395.5		0.28
SciotoRiver	255.95	10-Year	28900	691.4	715.34	706.92	715.96	0.000655	6.4	4809.67	387		0.29
SciotoRiver	255.95	50-Year	47500	691.4	721.01	709.64	721.8	0.000582	7.36	7000.62	387		0.28
SciotoRiver	255.95	500-Year	87000	691.4	730.86	714.71	731.44	0.000327	7.13	23819.27	3529.79		0.23
SciotoRiver	255.94	100-Year	57000	691.4	724.03	711.39	724.35	0.000253	4.85	14548.74	991.98		0.19
SciotoRiver	255.94	10-Year	28900	691.4	715.49	707.09	715.86	0.000563	4.94	6282.87	944.24		0.26
SciotoRiver	255.94	50-Year	47500	691.4	721.31	709.93	721.64	0.000311	4.87	11872.88	976.78		0.21
SciotoRiver	255.94	500-Year	87000	691.4	731.1	713.9	731.33	0.000143	4.48	35211.7	4244.32		0.15
SciotoRiver	255.93	Bridge											
SciotoRiver	255.92	100-Year	57000	691.4	723.37	711.42	724.18	0.000572	7.2	7926.61	395.66		0.28
SciotoRiver	255.92	10-Year	28900	691.4	715.15	706.92	715.73	0.00078	6.1	4735.11	387		0.31
SciotoRiver	255.92	50-Year	47500	691.4	720.76	709.74	721.5	0.000621	6.88	6905.16	387		0.29
SciotoRiver	255.92	500-Year	87000	691.4	730.74	714.51	731.23	0.000292	6.32	24987.06	4022.52		0.21
SciotoRiver	255.91	100-Year	57000	691.4	723.39	711.42	724.13	0.000512	7	8557.71	509.05		0.27
SciotoRiver	255.91	10-Year	28900	691.4	715.11	706.92	715.69	0.000762	6.11	4758.2	415		0.31
SciotoRiver	255.91	50-Year	47500	691.4	720.75	709.74	721.46	0.000573	6.77	7263.52	473.32		0.28
SciotoRiver	255.91	500-Year	87000	691.4	730.81	714.58	731.19	0.000227	5.73	28463.18	4029.3		0.19
SciotoRiver	255.9	AN 100-Year	57000	691.4	723.21	711.38	723.99	0.00057	7.15	8196.19	452.11		0.28
SciotoRiver	255.9	AN 10-Year	28900	691.4	714.88	706.92	715.49	0.000836	6.23	4661.06	403.71		0.32
SciotoRiver	255.9	AN 50-Year	47500	691.4	720.57	709.77	721.3	0.000631	6.89	7032.93	430.96		0.29
SciotoRiver	255.9	AN 500-Year	87000	691.4	730.63	714.55	731.11	0.000288	6.25	23560.01	3424.29		0.21
SciotoRiver	255.8	100-Year	57000	691.4	723.49	711.38	723.82	0.000276	4.98	13608.64	942.56		0.2
SciotoRiver	255.8	10-Year	28900	691.4	714.97	707.09	715.37	0.000647	5.17	5934.31	604.85		0.28
SciotoRiver	255.8	50-Year	47500	691.4	720.8	709.95	721.15	0.000344	5.02	11102.07	923.91		0.22
SciotoRiver	255.8	500-Year	87000	691.4	730.79	713.88	731.02	0.000144	4.47	33223.14	4073.52		0.15
SciotoRiver	255.75	Bridge											
SciotoRiver	255.7	100-Year	57000	691.4	722.75	711.42	723.6	0.000634	7.43	7679.41	395.09		0.29
SciotoRiver	255.7	10-Year	28900	691.4	714.51	706.92	715.16	0.000929	6.44	4487	387		0.33
SciotoRiver	255.7	50-Year	47500	691.4	720.15	709.74	720.94	0.000695	7.12	6668.24	387		0.3
SciotoRiver	255.7	500-Year	87000	691.4	730.26	714.51	730.83	0.000337	6.7	23066.8	3898.27		0.23
SciotoRiver	255.6	100-Year	57000	691.4	722.71	711.42	723.57	0.000605	7.44	7666.64	395.5		0.29
SciotoRiver	255.6	10-Year	28900	691.4	714.46	706.92	715.11	0.000916	6.47	4467.33	386.95		0.34
SciotoRiver	255.6	50-Year	47500	691.4	720.11	709.74	720.9	0.000668	7.14	6653.93	386.99		0.3
SciotoRiver	255.6	500-Year	87000	691.4	730.3	714.52	730.79	0.000285	6.34	25427.5	3881.25		0.21

Updated Existing Condition

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
SciotoRiver	255.5	100-Year	57000	691.4	722.56	711.36	723.43	0.000655	7.5	7606.96	395.5		0.3
SciotoRiver	255.5	10-Year	28900	691.4	714.22	706.92	714.9	0.00101	6.61	4374.34	387		0.35
SciotoRiver	255.5	50-Year	47500	691.4	719.94	709.77	720.75	0.000723	7.21	6588.94	387		0.31
SciotoRiver	255.5	500-Year	87000	691.4	730.15	714.51	730.71	0.000334	6.66	21440.68	3256.91		0.22
SciotoRiver	255.4	100-Year	57000	691.4	722.91	711.37	723.26	0.000301	5.09	13061.15	935.69		0.21
SciotoRiver	255.4	10-Year	28900	691.4	714.34	707.09	714.78	0.000776	5.48	5555.01	594.74		0.3
SciotoRiver	255.4	50-Year	47500	691.4	720.22	709.96	720.59	0.000384	5.18	10568.42	920.67		0.23
SciotoRiver	255.4	500-Year	87000	691.4	730.38	713.83	730.6	0.000147	4.46	31562.86	3914.52		0.15
SciotoRiver	255.3		Bridge										
SciotoRiver	255.2	100-Year	57000	691.4	721.96	711.39	722.89	0.000726	7.74	7367.65	387		0.31
SciotoRiver	255.2	10-Year	28900	691.4	713.75	706.93	714.49	0.001153	6.89	4194.02	385.61		0.37
SciotoRiver	255.2	50-Year	47500	691.4	719.39	709.64	720.25	0.000804	7.45	6375.37	387		0.32
SciotoRiver	255.2	500-Year	87000	691.4	729.84	714.53	730.42	0.000356	6.73	21261.79	3798.86		0.23
SciotoRiver	255.1	100-Year	57000	691.4	721.75	711.13	722.81	0.00069	8.56	7287.76	387		0.32
SciotoRiver	255.1	10-Year	28900	691.4	713.57	706.93	714.41	0.000973	7.43	4124.35	383.82		0.36
SciotoRiver	255.1	50-Year	47500	691.4	719.19	709.63	720.18	0.000751	8.22	6297.02	386.98		0.33
SciotoRiver	255.1	500-Year	87000	691.4	729.83	714.79	730.39	0.00031	7.08	23255.07	3723.74		0.23
SciotoRiver	254.95	100-Year	57000	693.3	721.85	707.61	722.33	0.000283	5.6	10768.29	576.45		0.21
SciotoRiver	254.95	10-Year	28900	693.3	713.58	703.43	713.91	0.000356	4.6	6394.86	491.9		0.22
SciotoRiver	254.95	50-Year	47500	693.3	719.26	706.58	719.7	0.000301	5.31	9303.58	546.34		0.21
SciotoRiver	254.95	500-Year	87000	693.3	729.78	710.21	730.23	0.000196	5.71	22998.12	2696.06		0.18
SciotoRiver	254.94	100-Year	57000	693.4	721.73	707.73	722.3	0.000369	6.04	9440.49	450.52		0.23
SciotoRiver	254.94	10-Year	28900	693.4	713.49	703.54	713.87	0.000427	4.96	5831.54	424.08		0.24
SciotoRiver	254.94	50-Year	47500	693.4	719.15	706.74	719.66	0.000385	5.73	8287.71	443.3		0.23
SciotoRiver	254.94	500-Year	87000	693.4	729.71	710.57	730.2	0.000291	5.88	20348.41	2617.55		0.21
SciotoRiver	254.93		Bridge										
SciotoRiver	254.92	100-Year	57000	693.4	721.62	707.73	722.19	0.000375	6.07	9392.02	450.3		0.23
SciotoRiver	254.92	10-Year	28900	693.4	713.39	703.54	713.78	0.000437	4.99	5790.32	423.75		0.24
SciotoRiver	254.92	50-Year	47500	693.4	719.05	706.74	719.56	0.000392	5.76	8241.36	442.94		0.24
SciotoRiver	254.92	500-Year	87000	693.4	729.6	710.57	730.1	0.000298	5.93	20058.47	2571.6		0.21
SciotoRiver	254.91	100-Year	57000	686.8	721.11	710.21	722.12	0.00068	8.17	7814.41	678.8		0.32
SciotoRiver	254.91	10-Year	28900	686.8	712.95	706.42	713.71	0.000975	7	4196.52	364.75		0.35
SciotoRiver	254.91	50-Year	47500	686.8	718.55	708.96	719.49	0.000748	7.85	6316.06	391.83		0.33
SciotoRiver	254.91	500-Year	87000	686.8	729.1	713.47	730.04	0.000442	8.2	13551.26	745.56		0.27
SciotoRiver	254.5	AM 100-Year	57000	687	720.75	709.38	721.58	0.000588	7.36	7970.43	431.74		0.29
SciotoRiver	254.5	AM 10-Year	28900	687	712.29	705.83	712.94	0.000907	6.52	4479.69	393.61		0.33
SciotoRiver	254.5	AM 50-Year	47500	687	718.12	708.34	718.9	0.000648	7.09	6854.59	419.93		0.3
SciotoRiver	254.5	AM 500-Year	87000	687	728.75	712.27	729.69	0.000445	7.86	11586.13	487.94		0.27
SciotoRiver	254.4	100-Year	57000	685.4	720.73	709.06	721.52	0.000619	7.14	7986.48	436.4		0.29
SciotoRiver	254.4	10-Year	28900	685.4	712.24	705.34	712.87	0.000876	6.38	4530.38	381.64		0.33
SciotoRiver	254.4	50-Year	47500	685.4	718.1	707.94	718.84	0.000675	6.93	6855.99	418.91		0.3
SciotoRiver	254.4	500-Year	87000	685.4	728.77	712.1	729.64	0.000458	7.5	11631.63	493.76		0.26
SciotoRiver	254.3		Bridge										
SciotoRiver	254.2	100-Year	57000	685.4	720.4	709.06	721.22	0.000655	7.27	7841.11	435.34		0.3
SciotoRiver	254.2	10-Year	28900	685.4	711.86	705.34	712.54	0.000969	6.59	4386.67	379.99		0.34
SciotoRiver	254.2	50-Year	47500	685.4	717.77	707.94	718.54	0.000716	7.07	6718.81	416		0.31

Updated Existing Condition

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
SciotoRiver	254.2	500-Year	87000	685.4	728.21	712.1	729.11	0.000485	7.62	11853.35	643.8		0.27
SciotoRiver	254.1	100-Year	57000	685.5	720.33	708.82	721.14	0.000558	7.3	8093.18	436.85		0.29
SciotoRiver	254.1	10-Year	28900	685.5	711.77	703.9	712.41	0.000908	6.47	4515.51	398.15		0.33
SciotoRiver	254.1	50-Year	47500	685.5	717.7	707.74	718.46	0.00062	7.01	6960.33	425.71		0.29
SciotoRiver	254.1	500-Year	87000	685.5	728.1	711.76	729.05	0.000428	7.93	11843.78	587.01		0.26
SciotoRiver	253.6	AL 100-Year	75000	693	720.31	704.19	720.72	0.000213	5.14	15043.29	680.79		0.19
SciotoRiver	253.6	AL 10-Year	36800	693	711.68	701.05	711.92	0.000232	3.98	9346.37	638.04		0.18
SciotoRiver	253.6	AL 50-Year	62100	693	717.67	703.2	718.03	0.000217	4.8	13259.17	668.11		0.18
SciotoRiver	253.6	AL 500-Year	114000	693	728.15	706.76	728.67	0.000188	5.84	21191.15	986.3		0.18
SciotoRiver	253.5	100-Year	75000	693.1	719.88	705.45	720.53	0.000352	6.54	11970.75	555.22		0.24
SciotoRiver	253.5	10-Year	36800	693.1	711.33	701.94	711.73	0.00039	5.09	7373.29	520.02		0.23
SciotoRiver	253.5	50-Year	62100	693.1	717.26	704.36	717.84	0.00036	6.11	10532.57	544.45		0.24
SciotoRiver	253.5	500-Year	114000	693.1	727.73	708.43	728.5	0.000294	7.24	19695.07	1645.91		0.23
SciotoRiver	253.4	100-Year	75000	691.4	719.96	705.29	720.48	0.000318	5.75	13051.38	603.04		0.22
SciotoRiver	253.4	10-Year	36800	691.4	711.36	702.07	711.69	0.000358	4.6	8004.36	573.63		0.22
SciotoRiver	253.4	50-Year	62100	691.4	717.33	704.28	717.79	0.000323	5.41	11480.63	590.49		0.22
SciotoRiver	253.4	500-Year	114000	691.4	727.93	707.98	728.4	0.000254	5.75	26492.23	2774.39		0.2
SciotoRiver	253.3		Bridge										
SciotoRiver	253.2	100-Year	75000	691.4	719.92	705.29	720.43	0.00032	5.76	13022.93	602.85		0.22
SciotoRiver	253.2	10-Year	36800	691.4	711.33	702.07	711.66	0.00036	4.61	7985.35	573.56		0.22
SciotoRiver	253.2	50-Year	62100	691.4	717.29	704.28	717.75	0.000325	5.42	11456.08	590.47		0.22
SciotoRiver	253.2	500-Year	114000	691.4	727.76	707.98	728.29	0.000276	5.99	23064.94	2228.05		0.21
SciotoRiver	253.1	100-Year	75000	691.4	719.91	705.29	720.41	0.000316	5.72	13112.64	605.88		0.22
SciotoRiver	253.1	10-Year	36800	691.4	711.32	702.04	711.64	0.000359	4.58	8043.35	580.5		0.22
SciotoRiver	253.1	50-Year	62100	691.4	717.28	704.28	717.73	0.000321	5.38	11542.17	592		0.21
SciotoRiver	253.1	500-Year	114000	691.4	727.69	707.95	728.27	0.000255	6.18	21410.32	2111.63		0.2
SciotoRiver	252.8	100-Year	75000	692.84	719.76	703.91	720.33	0.000242	6.14	13551.05	934.51		0.22
SciotoRiver	252.8	10-Year	36800	692.84	711.22	700.22	711.56	0.000246	4.68	8011.6	557.11		0.2
SciotoRiver	252.8	50-Year	62100	692.84	717.15	702.74	717.65	0.000243	5.71	11579.06	647.45		0.21
SciotoRiver	252.8	500-Year	114000	692.84	727.6	706.95	728.2	0.000193	6.57	21142.66	1322.03		0.2
SciotoRiver	252.5	AK 100-Year	75000	687	719.72	701.38	720.13	0.000162	5.27	15807.09	1217.68		0.18
SciotoRiver	252.5	AK 10-Year	36800	687	711.15	697.14	711.39	0.000155	4	9704.47	682.56		0.16
SciotoRiver	252.5	AK 50-Year	62100	687	717.1	700.17	717.46	0.000161	4.91	13891.02	806.2		0.18
SciotoRiver	252.5	AK 500-Year	114000	687	727.56	704.75	728.04	0.000142	5.85	23149.02	1633.48		0.17
SciotoRiver	252.3		Bridge										
SciotoRiver	252.1	100-Year	75000	691.49	719.31	705.47	719.94	0.000301	6.66	12721.67	1003.61		0.24
SciotoRiver	252.1	10-Year	36800	691.49	710.76	701.25	711.21	0.000372	5.51	7153.76	643.52		0.25
SciotoRiver	252.1	50-Year	62100	691.49	716.7	704.21	717.28	0.000317	6.33	10968.85	820.96		0.24
SciotoRiver	252.1	500-Year	114000	691.49	726.89	709.1	727.63	0.000251	7.31	17930.65	1588.51		0.23
SciotoRiver	252.06	100-Year	75000	687	719.16	703.18	719.85	0.000285	6.91	12078.15	687.5		0.24
SciotoRiver	252.06	10-Year	36800	687	710.69	697.68	711.12	0.000278	5.29	7308.81	504.35		0.22
SciotoRiver	252.06	50-Year	62100	687	716.57	701.64	717.19	0.000286	6.46	10549.83	657.11		0.23
SciotoRiver	252.06	500-Year	114000	687	727.02	706.99	727.41	0.000152	6	35075.24	2637.31		0.18
SciotoRiver	251.8	100-Year	75000	691.95	718.79	705.59	719.71	0.000417	8	10466.67	553.29		0.28
SciotoRiver	251.8	10-Year	36800	691.95	710.36	700.87	710.97	0.000458	6.36	6164.13	478.79		0.28
SciotoRiver	251.8	50-Year	62100	691.95	716.22	704.07	717.05	0.000427	7.53	9083.81	524.52		0.28

Updated Existing Condition

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
SciotoRiver	251.8	500-Year	114000	691.95	726.22	709.61	727.27	0.000354	8.79	16675.77	1286.29		0.27
SciotoRiver	251.75	100-Year	75000	682	718.73	703.9	719.53	0.000362	7.54	11568.18	619.92		0.26
SciotoRiver	251.75	10-Year	36800	682	710.28	698.98	710.8	0.000368	5.88	6805.55	519.52		0.24
SciotoRiver	251.75	50-Year	62100	682	716.16	702.28	716.87	0.000363	7.05	10040.23	577.35		0.25
SciotoRiver	251.75	500-Year	114000	682	726.19	708.15	727.1	0.000317	8.32	16915.62	817.43		0.25
SciotoRiver	251.5	AJ 100-Year	75000	691.94	718.64	705.56	719.42	0.000363	7.54	11702.73	634.1		0.27
SciotoRiver	251.5	AJ 10-Year	36800	691.94	710.12	700.65	710.68	0.000419	6.15	6635.18	534.27		0.27
SciotoRiver	251.5	AJ 50-Year	62100	691.94	716.05	703.88	716.76	0.000376	7.14	10091.75	607.67		0.27
SciotoRiver	251.5	AJ 500-Year	114000	691.94	726.11	709.18	727.01	0.000309	8.29	16641.45	721.87		0.26
SciotoRiver	251.3		Bridge										
SciotoRiver	251.1	100-Year	75000	688.4	718.16	704.43	718.95	0.000349	7.58	11322.87	594.63		0.26
SciotoRiver	251.1	10-Year	36800	688.4	709.92	699.14	710.44	0.000357	5.97	6732.97	503.16		0.25
SciotoRiver	251.1	50-Year	62100	688.4	715.69	702.58	716.41	0.000352	7.13	9871.47	580.65		0.26
SciotoRiver	251.1	500-Year	114000	688.4	725	708.31	725.98	0.000326	8.56	15541.65	627.42		0.26
SciotoRiver	250.776	100-Year	75000	685	717.77	704.72	718.79	0.000468	8.64	10274.24	553.31		0.29
SciotoRiver	250.776	10-Year	36800	685	709.66	698.72	710.31	0.000446	6.65	6125.38	453.83		0.27
SciotoRiver	250.776	50-Year	62100	685	715.34	702.5	716.25	0.000463	8.07	8956.56	532.99		0.29
SciotoRiver	250.776	500-Year	114000	685	724.51	708.86	725.79	0.000457	9.91	14369.8	717.69		0.3
SciotoRiver	250.6268	100-Year	75000	691.02	717.48	705.41	718.63	0.000584	9.21	9835.37	593.36		0.32
SciotoRiver	250.6268	10-Year	36800	691.02	709.26	700.25	710.13	0.000669	7.62	5285.68	520.19		0.32
SciotoRiver	250.6268	50-Year	62100	691.02	715.01	703.83	716.09	0.000605	8.77	8404.83	568.07		0.32
SciotoRiver	250.6268	500-Year	114000	691.02	724.37	710.96	725.66	0.000505	10.05	14148.28	656.96		0.31
SciotoRiver	250.5503 AI	100-Year	75000	685	717.39	704.53	718.4	0.000478	8.62	10350.5	588.77		0.3
SciotoRiver	250.5503 AI	10-Year	36800	685	709.19	698.81	709.86	0.000485	6.78	5978.64	450.99		0.28
SciotoRiver	250.5503 AI	50-Year	62100	685	714.93	702.49	715.84	0.00048	8.09	8933.77	540.76		0.29
SciotoRiver	250.5503 AI	500-Year	114000	685	724.26	708.78	725.47	0.00044	9.66	14546.22	661.89		0.3
SciotoRiver	250.4728	100-Year	75000	691.05	717.09	705.52	718.15	0.000496	8.77	9954.14	543.32		0.31
SciotoRiver	250.4728	10-Year	36800	691.05	708.85	699.97	709.59	0.000551	7.08	5751.23	464.05		0.31
SciotoRiver	250.4728	50-Year	62100	691.05	714.62	703.6	715.59	0.000509	8.29	8634.62	526.9		0.31
SciotoRiver	250.4728	500-Year	114000	691.05	723.98	709.3	725.25	0.000444	9.77	13931.84	627.68		0.31
SciotoRiver	250.4469		Bridge										
SciotoRiver	249.79	100-Year	75000	690.25	716.81	704.79	717.81	0.000464	8.55	10364.66	564.45		0.3
SciotoRiver	249.79	10-Year	36800	690.25	708.64	699.2	709.32	0.000495	6.8	6017.46	491.17		0.29
SciotoRiver	249.79	50-Year	62100	690.25	714.37	702.8	715.27	0.000471	8.04	9008.14	547.99		0.3
SciotoRiver	249.79	500-Year	114000	690.25	723.54	708.63	724.76	0.000427	9.6	14222.4	613.67		0.3
SciotoRiver	249.76	100-Year	75000	684	716.47	704.14	717.64	0.000521	9.17	9525.7	528.33		0.32
SciotoRiver	249.76	10-Year	36800	684	708.44	698.47	709.18	0.000506	7.07	5712.67	421.55		0.29
SciotoRiver	249.76	50-Year	62100	684	714.06	702.36	715.11	0.000524	8.62	8269.95	509.07		0.31
SciotoRiver	249.76	500-Year	114000	684	723.2	708.49	724.6	0.000481	10.26	13500.59	631.03		0.32
SciotoRiver	249.5	AH 100-Year	75000	690.05	716.57	702.91	717.37	0.000362	7.52	11528.99	652.2		0.27
SciotoRiver	249.5	AH 10-Year	36800	690.05	708.45	698.32	708.99	0.000384	5.96	6636.81	512.81		0.26
SciotoRiver	249.5	AH 50-Year	62100	690.05	714.13	701.49	714.85	0.000371	7.11	9956.29	636.61		0.26
SciotoRiver	249.5	AH 500-Year	114000	690.05	723.34	706.78	724.29	0.000328	8.39	16087.11	745.16		0.26
SciotoRiver	249.3		Bridge										
SciotoRiver	249.1	100-Year	75000	689.91	716.34	702.91	717.03	0.000327	7.19	12618.09	716.16		0.25

Updated Existing Condition

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
SciotoRiver	249.1	10-Year	36800	689.91	708.33	698.07	708.82	0.00036	5.86	7183.43	637		0.25
SciotoRiver	249.1	50-Year	62100	689.91	713.98	701.37	714.61	0.000332	6.79	10951.75	694.59		0.25
SciotoRiver	249.1	500-Year	114000	689.91	722.32	707.19	723.19	0.000324	8.25	17064.88	1131.72		0.26
SciotoRiver	249	100-Year	75000	689.44	715.82	703.77	716.84	0.000475	8.65	10427.42	825.25		0.3
SciotoRiver	249	10-Year	36800	689.44	708.05	698.38	708.69	0.000459	6.65	6288.6	499.07		0.28
SciotoRiver	249	50-Year	62100	689.44	713.54	702.15	714.44	0.000466	8.05	9162.43	723.02		0.3
SciotoRiver	249	500-Year	114000	689.44	721.54	707.42	722.94	0.000512	10.29	13960.17	990.59		0.33
SciotoRiver	248.3	100-Year	75000	687.79	715.8	702.02	716.75	0.000405	8.21	10614.83	943.82		0.28
SciotoRiver	248.3	10-Year	36800	687.79	708.05	696.98	708.6	0.000357	6.1	6571.25	460.58		0.25
SciotoRiver	248.3	50-Year	62100	687.79	713.52	700.45	714.35	0.000395	7.62	9247.3	813.37		0.27
SciotoRiver	248.3	500-Year	114000	687.79	721.69	706.17	722.78	0.000387	9.18	16192.38	998.79		0.29
SciotoRiver	247.5	AG 100-Year	75000	685.23	715.88	699.82	716.58	0.000283	7.01	12858.71	918.34		0.24
SciotoRiver	247.5	AG 10-Year	36800	685.23	708.09	695.35	708.49	0.000236	5.11	8043.61	579.11		0.2
SciotoRiver	247.5	AG 50-Year	62100	685.23	713.59	698.42	714.19	0.000269	6.45	11380.39	768.79		0.23
SciotoRiver	247.5	AG 500-Year	114000	685.23	721.76	703.67	722.62	0.000289	8.07	19129.82	975.39		0.25
SciotoRiver	247.3		Bridge										
SciotoRiver	247.1	100-Year	75000	682	715.69	699.71	716.32	0.000261	6.59	12519.09	590.87		0.23
SciotoRiver	247.1	10-Year	36800	682	707.97	694.41	708.31	0.000219	4.79	8171.76	529.34		0.2
SciotoRiver	247.1	50-Year	62100	682	713.46	698.29	713.99	0.000247	6.04	11214.68	577.96		0.22
SciotoRiver	247.1	500-Year	114000	682	720.69	703.33	721.66	0.000322	8.21	15571.73	715.07		0.26
SciotoRiver	246.8	100-Year	75000	686.53	715.66	698.96	716.22	0.000224	6.15	13330.44	590.89		0.21
SciotoRiver	246.8	10-Year	36800	686.53	707.94	695.07	708.23	0.000181	4.4	8888.86	562.39		0.18
SciotoRiver	246.8	50-Year	62100	686.53	713.43	697.75	713.9	0.000209	5.61	12025.99	580.64		0.2
SciotoRiver	246.8	500-Year	114000	686.53	720.65	702.22	721.53	0.000283	7.76	16370.78	633.56		0.24
SciotoRiver	246.39	100-Year	75000	684.92	715.67	696.49	715.89	0.000144	3.98	20107.61	894.21		0.14
SciotoRiver	246.39	10-Year	36800	684.92	707.89	693.24	708.02	0.000119	2.88	13414.33	828.78		0.12
SciotoRiver	246.39	50-Year	62100	684.92	713.42	695.5	713.61	0.000135	3.64	18128.54	873.21		0.13
SciotoRiver	246.39	500-Year	114000	684.92	720.72	699.09	721.07	0.000176	4.94	24662.51	915		0.15
SciotoRiver	246.38		Bridge										
SciotoRiver	246.37	100-Year	75000	687.47	715.42	699.23	715.83	0.000286	5.38	15385.06	806.51		0.19
SciotoRiver	246.37	10-Year	36800	687.47	707.71	695.68	707.96	0.000275	4.14	9428.05	737.29		0.17
SciotoRiver	246.37	50-Year	62100	687.47	713.19	698.16	713.55	0.00028	5	13605.9	790.69		0.18
SciotoRiver	246.37	500-Year	114000	687.47	720.4	702.14	720.99	0.00033	6.52	19530.96	855.16		0.21
SciotoRiver	246.35	100-Year	75000	688.1	715.35	699.03	715.8	0.000306	5.59	14660.87	769.55		0.2
SciotoRiver	246.35	10-Year	36800	688.1	707.67	695.46	707.94	0.000278	4.19	9170.44	634.99		0.18
SciotoRiver	246.35	50-Year	62100	688.1	713.13	697.98	713.53	0.000297	5.18	12992.72	736.65		0.19
SciotoRiver	246.35	500-Year	114000	688.1	720.31	701.95	720.96	0.000354	6.76	18581.96	797.72		0.22
SciotoRiver	246.34		Bridge										
SciotoRiver	246.33	100-Year	75000	686.21	715.37	697.77	715.74	0.000223	4.93	15415.43	700.18		0.17
SciotoRiver	246.33	10-Year	36800	686.21	707.68	694.32	707.89	0.000205	3.66	10105.75	660.47		0.16
SciotoRiver	246.33	50-Year	62100	686.21	713.15	696.7	713.47	0.000216	4.54	13867.56	694.77		0.17
SciotoRiver	246.33	500-Year	114000	686.21	720.32	700.69	720.9	0.000262	6.07	18893.67	703.85		0.2
SciotoRiver	246.31	100-Year	75000	686.2	715.32	697.91	715.74	0.000263	5.32	15057.71	684.13		0.18
SciotoRiver	246.31	10-Year	36800	686.2	707.66	694.41	707.89	0.000218	3.85	9890.42	637.54		0.16
SciotoRiver	246.31	50-Year	62100	686.2	713.11	696.81	713.46	0.000249	4.88	13550.01	678.72		0.18
SciotoRiver	246.31	500-Year	114000	686.2	720.25	700.75	720.89	0.000324	6.62	18453.52	691.93		0.21

Updated Existing Condition

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
SciotoRiver	246.3												
		Bridge											
SciotoRiver	246.29	100-Year	75000	685.88	715.29	697.78	715.7	0.000259	5.26	15077.1	676.29	0.18	
SciotoRiver	246.29	10-Year	36800	685.88	707.64	694.24	707.86	0.000214	3.8	9992.91	615.85	0.16	
SciotoRiver	246.29	50-Year	62100	685.88	713.08	696.69	713.43	0.000245	4.82	13585.94	672.96	0.17	
SciotoRiver	246.29	500-Year	114000	685.88	720.2	700.64	720.83	0.000323	6.59	18400.33	679.89	0.21	
SciotoRiver	246.27	100-Year	75000	685.83	715.3	697.68	715.68	0.000237	5.06	15852.67	713.28	0.17	
SciotoRiver	246.27	10-Year	36800	685.83	707.64	694.29	707.84	0.000198	3.67	10468.73	653.71	0.15	
SciotoRiver	246.27	50-Year	62100	685.83	713.09	696.65	713.41	0.000225	4.64	14276.9	711.02	0.17	
SciotoRiver	246.27	500-Year	114000	685.83	720.23	700.53	720.8	0.000294	6.31	19389.04	724.06	0.2	
SciotoRiver	246												
		Bridge											
SciotoRiver	245.46	100-Year	75000	685.55	715.21	698.14	715.62	0.000264	5.27	15248.39	714.18	0.18	
SciotoRiver	245.46	10-Year	36800	685.55	707.57	694.76	707.8	0.000223	3.84	10011.83	649.82	0.16	
SciotoRiver	245.46	50-Year	62100	685.55	713.01	697.11	713.35	0.00025	4.83	13686.79	703.47	0.18	
SciotoRiver	245.46	500-Year	114000	685.55	720.1	700.98	720.72	0.000324	6.55	18840.9	752.29	0.21	
SciotoRiver	245.44	100-Year	75000	684.87	715.07	699.4	715.58	0.000349	5.81	13509.13	640.8	0.21	
SciotoRiver	245.44	10-Year	36800	684.87	707.49	695.88	707.77	0.000309	4.27	8821.41	586.97	0.18	
SciotoRiver	245.44	50-Year	62100	684.87	712.89	698.32	713.32	0.000334	5.34	12116.63	631.06	0.2	
SciotoRiver	245.44	500-Year	114000	684.87	719.9	702.34	720.67	0.000424	7.22	16655.78	664.12	0.24	
SciotoRiver	245.43												
		Bridge											
SciotoRiver	245.42	100-Year	75000	688.24	715.02	699.08	715.52	0.00034	5.81	13608.46	630.25	0.2	
SciotoRiver	245.42	10-Year	36800	688.24	707.45	695.48	707.72	0.000292	4.24	8962.4	586.07	0.18	
SciotoRiver	245.42	50-Year	62100	688.24	712.84	697.97	713.26	0.000322	5.32	12245.73	621.2	0.2	
SciotoRiver	245.42	500-Year	114000	688.24	719.83	702.08	720.6	0.00042	7.26	16721.26	661.74	0.23	
SciotoRiver	245.4	100-Year	75000	683.7	714.84	698.22	715.38	0.000345	6.02	13670.41	613.41	0.21	
SciotoRiver	245.4	10-Year	36800	683.7	707.34	694.65	707.61	0.000269	4.23	9223.53	576.15	0.17	
SciotoRiver	245.4	50-Year	62100	683.7	712.68	697.14	713.13	0.000318	5.46	12365.47	599.41	0.2	
SciotoRiver	245.4	500-Year	114000	683.7	719.54	701.28	720.42	0.000448	7.67	16613.84	638.66	0.24	
SciotoRiver	245.38	100-Year	75000	683.85	714.83	698.12	715.37	0.000378	6.05	13731.64	611.81	0.21	
SciotoRiver	245.38	10-Year	36800	683.85	707.33	694.47	707.6	0.000291	4.25	9284.21	575.18	0.17	
SciotoRiver	245.38	50-Year	62100	683.85	712.67	696.96	713.12	0.000349	5.49	12425.13	602.07	0.2	
SciotoRiver	245.38	500-Year	114000	683.85	719.53	701.24	720.4	0.000493	7.71	16659.76	633.21	0.24	
SciotoRiver	245.36	100-Year	75000	683.99	714.81	697.95	715.36	0.000376	6.09	13802.74	605.26	0.21	
SciotoRiver	245.36	10-Year	36800	683.99	707.32	694.22	707.6	0.000285	4.26	9392.42	568.13	0.17	
SciotoRiver	245.36	50-Year	62100	683.99	712.66	696.78	713.12	0.000345	5.52	12510.65	596.68	0.2	
SciotoRiver	245.36	500-Year	114000	683.99	719.51	701.13	720.39	0.000493	7.78	16700.15	627.15	0.25	
SciotoRiver	245.34	100-Year	75000	684.13	714.82	697.65	715.35	0.000357	5.91	13860.3	597.2	0.2	
SciotoRiver	245.34	10-Year	36800	684.13	707.33	694	707.59	0.000269	4.12	9480.64	571.18	0.17	
SciotoRiver	245.34	50-Year	62100	684.13	712.67	696.48	713.1	0.000327	5.36	12583.11	589.79	0.19	
SciotoRiver	245.34	500-Year	114000	684.13	719.52	700.67	720.37	0.000471	7.57	16747.89	628.3	0.24	
SciotoRiver	245.32	100-Year	75000	684.26	714.83	697.54	715.33	0.000343	5.74	13964.4	605.97	0.2	
SciotoRiver	245.32	10-Year	36800	684.26	707.33	693.85	707.58	0.000262	4.01	9526.48	573.93	0.16	
SciotoRiver	245.32	50-Year	62100	684.26	712.68	696.4	713.09	0.000315	5.2	12667.19	598.12	0.19	
SciotoRiver	245.32	500-Year	114000	684.26	719.54	700.57	720.35	0.00045	7.34	16877.04	634.88	0.23	
SciotoRiver	245.3	100-Year	75000	684.1	714.78	697.42	715.32	0.000361	6.05	13903.13	608.26	0.2	
SciotoRiver	245.3	10-Year	36800	684.1	707.3	693.7	707.57	0.000266	4.2	9489.4	569.45	0.17	

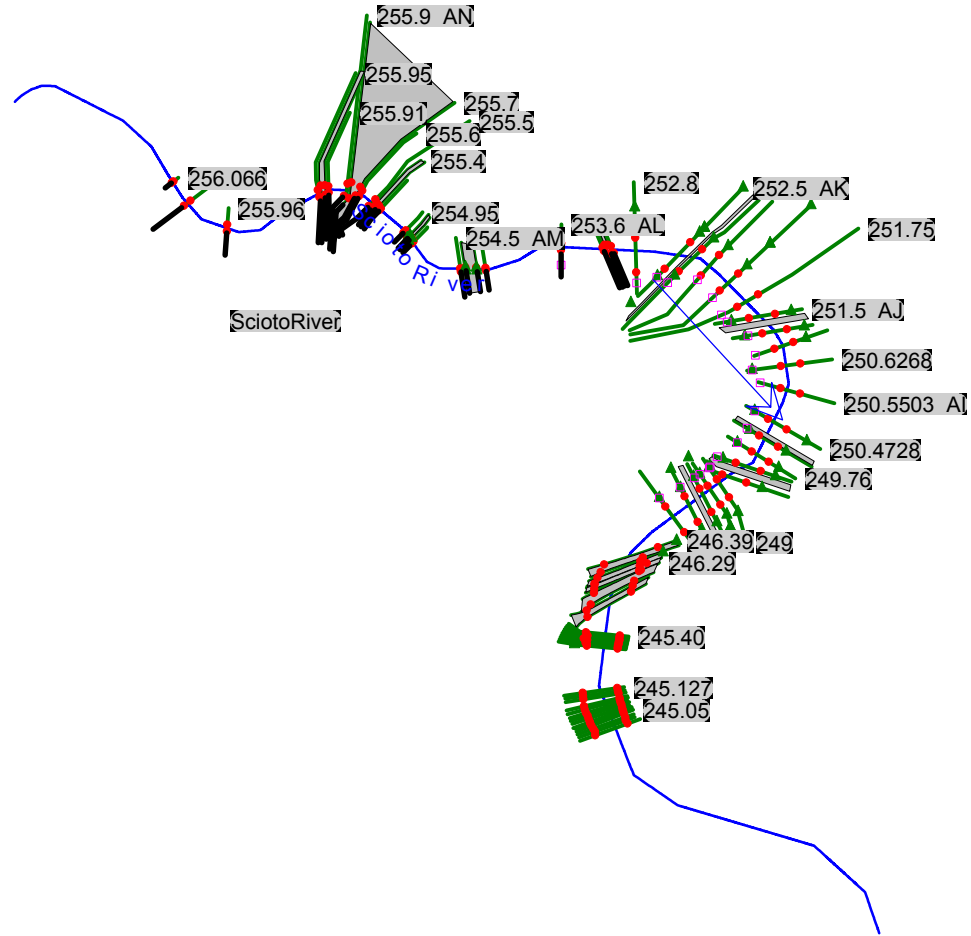
Updated Existing Condition

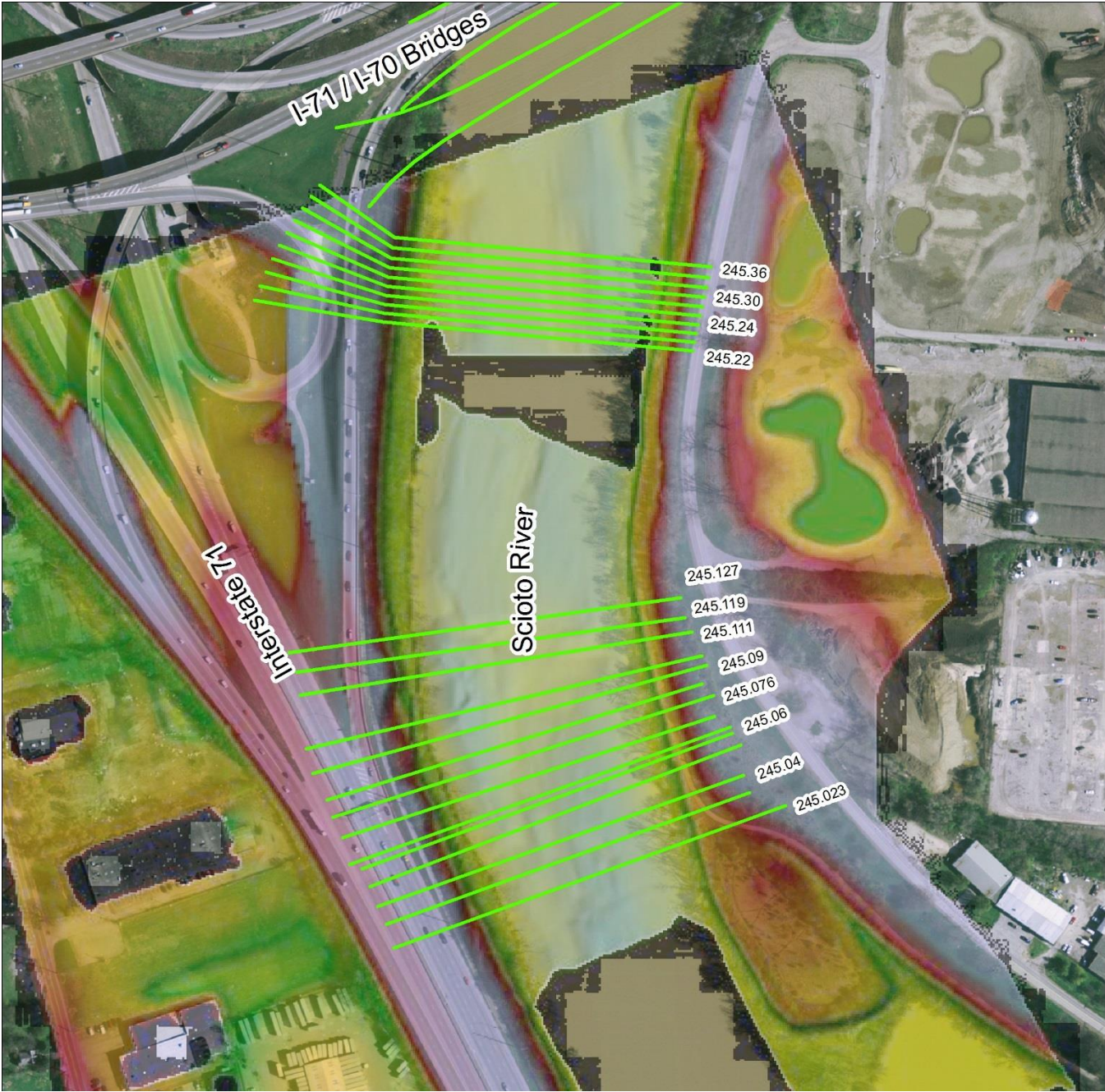
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl
SciotoRiver	245.3	50-Year	62100	684.1	712.64	696.25	713.08	0.00033	5.48	12608.94	598.22	0.19	
SciotoRiver	245.3	500-Year	114000	684.1	719.46	700.64	720.34	0.00048	7.76	16789.55	631.35	0.24	
SciotoRiver	245.28	100-Year	75000	684.52	714.78	697.39	715.31	0.000357	5.98	13815.18	628.22	0.2	
SciotoRiver	245.28	10-Year	36800	684.52	707.3	693.73	707.56	0.000264	4.14	9474.66	566.47	0.17	
SciotoRiver	245.28	50-Year	62100	684.52	712.63	696.25	713.07	0.000326	5.41	12544.42	607.15	0.19	
SciotoRiver	245.28	500-Year	114000	684.52	719.45	700.54	720.32	0.000475	7.67	16669.86	687.35	0.24	
SciotoRiver	245.26	100-Year	75000	684.49	714.77	697.35	715.31	0.000356	5.98	13820.64	669.59	0.2	
SciotoRiver	245.26	10-Year	36800	684.49	707.3	693.62	707.56	0.000263	4.14	9461.46	566.4	0.17	
SciotoRiver	245.26	50-Year	62100	684.49	712.63	696.2	713.07	0.000325	5.41	12545.12	652.19	0.19	
SciotoRiver	245.26	500-Year	114000	684.49	719.44	700.5	720.31	0.000475	7.68	16669.6	727.28	0.24	
SciotoRiver	245.24	100-Year	75000	684.12	714.76	697.28	715.3	0.00036	6.06	13876.68	694.96	0.2	
SciotoRiver	245.24	10-Year	36800	684.12	707.29	693.49	707.55	0.000263	4.19	9518.59	568.33	0.17	
SciotoRiver	245.24	50-Year	62100	684.12	712.61	696.08	713.06	0.000328	5.48	12602.79	675.23	0.19	
SciotoRiver	245.24	500-Year	114000	684.12	719.42	700.56	720.3	0.000482	7.79	16716.39	761.38	0.24	
SciotoRiver	245.22	100-Year	75000	683.75	714.75	697.05	715.29	0.000354	6.06	13966.77	711.35	0.2	
SciotoRiver	245.22	10-Year	36800	683.75	707.28	693.25	707.55	0.000256	4.18	9625.49	568.22	0.16	
SciotoRiver	245.22	50-Year	62100	683.75	712.61	695.88	713.05	0.000322	5.48	12701.21	691.24	0.19	
SciotoRiver	245.22	500-Year	114000	683.75	719.41	700.26	720.29	0.000478	7.81	16794.67	796.66	0.24	
SciotoRiver	245.127	100-Year	75000	684.2	714.53	697.47	715.07	0.00038	5.96	13406.02	601.9	0.21	
SciotoRiver	245.127	10-Year	36800	684.2	707.12	693.58	707.38	0.000292	4.16	9118.58	551.91	0.17	
SciotoRiver	245.127	50-Year	62100	684.2	712.41	696.31	712.85	0.00035	5.4	12141.02	588.49	0.2	
SciotoRiver	245.127	500-Year	114000	684.2	719.13	700.66	720	0.000498	7.6	16553.64	748.04	0.24	
SciotoRiver	245.119	100-Year	75000	682.09	714.51	697.66	715.05	0.00039	5.99	13354.65	603.82	0.21	
SciotoRiver	245.119	10-Year	36800	682.09	707.1	693.89	707.37	0.000303	4.2	9055.5	553.96	0.17	
SciotoRiver	245.119	50-Year	62100	682.09	712.39	696.53	712.83	0.00036	5.43	12086.05	591.11	0.2	
SciotoRiver	245.119	500-Year	114000	682.09	719.1	700.92	719.97	0.000509	7.63	16398.39	737.9	0.25	
SciotoRiver	245.111	100-Year	75000	681.23	714.5	697.61	715.04	0.000389	5.95	13365.97	605.06	0.21	
SciotoRiver	245.111	10-Year	36800	681.23	707.09	693.92	707.36	0.000305	4.18	9057.4	554.02	0.17	
SciotoRiver	245.111	50-Year	62100	681.23	712.37	696.48	712.82	0.00036	5.4	12095.06	592.1	0.2	
SciotoRiver	245.111	500-Year	114000	681.23	719.08	700.8	719.95	0.000507	7.59	16337.57	740.59	0.24	
SciotoRiver	245.097	100-Year	75000	680.84	714.47	697.52	715	0.000379	5.89	13390.75	604.36	0.21	
SciotoRiver	245.097	10-Year	36800	680.84	707.07	693.79	707.33	0.000295	4.13	9101.03	551.43	0.17	
SciotoRiver	245.097	50-Year	62100	680.84	712.35	696.39	712.79	0.00035	5.34	12124.02	589.85	0.2	
SciotoRiver	245.097	500-Year	114000	680.84	719.05	700.67	719.91	0.000495	7.52	16301.09	695.71	0.24	
SciotoRiver	245.09	100-Year	75000	682.59	714.46	697.56	714.99	0.000375	5.87	13377.31	600.43	0.21	
SciotoRiver	245.09	10-Year	36800	682.59	707.06	693.76	707.32	0.000291	4.11	9118.68	547.92	0.17	
SciotoRiver	245.09	50-Year	62100	682.59	712.34	696.39	712.78	0.000346	5.32	12119.2	586.13	0.19	
SciotoRiver	245.09	500-Year	114000	682.59	719.04	700.69	719.89	0.000491	7.5	16287.25	681.95	0.24	
SciotoRiver	245.082	100-Year	75000	683.31	714.44	697.42	714.97	0.000376	5.9	13346.61	598.35	0.21	
SciotoRiver	245.082	10-Year	36800	683.31	707.05	693.56	707.31	0.00029	4.12	9104.33	547.88	0.17	
SciotoRiver	245.082	50-Year	62100	683.31	712.32	696.25	712.76	0.000347	5.35	12094.3	584.2	0.2	
SciotoRiver	245.082	500-Year	114000	683.31	719.01	700.65	719.87	0.000494	7.55	16221.77	673.53	0.24	
SciotoRiver	245.076	100-Year	75000	683.56	714.42	697.21	714.96	0.000379	5.93	13359.02	597.76	0.21	
SciotoRiver	245.076	10-Year	36800	683.56	707.04	693.32	707.3	0.000291	4.14	9124.62	547.04	0.17	
SciotoRiver	245.076	50-Year	62100	683.56	712.31	696.03	712.75	0.000349	5.37	12109.13	583.59	0.2	
SciotoRiver	245.076	500-Year	114000	683.56	718.98	700.49	719.85	0.000499	7.59	16238.4	677.41	0.24	
SciotoRiver	245.067	100-Year	75000	683.84	714.4	697.32	714.94	0.000385	5.99	13213.95	591.68	0.21	

Updated Existing Condition

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
SciotoRiver	245.067	10-Year	36800	683.84	707.02	693.32	707.29	0.000295	4.18	9026.23	530.42		0.17
SciotoRiver	245.067	50-Year	62100	683.84	712.28	696.12	712.73	0.000354	5.42	11978.45	577.95		0.2
SciotoRiver	245.067	500-Year	114000	683.84	718.94	700.6	719.83	0.000507	7.66	16042.8	657.15		0.25
SciotoRiver	245.06	100-Year	75000	683.31	714.37	697.27	714.93	0.000391	6.03	13129.34	590.13		0.21
SciotoRiver	245.06	10-Year	36800	683.31	707	693.2	707.27	0.000299	4.2	8969.76	523.57		0.17
SciotoRiver	245.06	50-Year	62100	683.31	712.26	696.05	712.72	0.00036	5.46	11899.34	575.87		0.2
SciotoRiver	245.06	500-Year	114000	683.31	718.91	700.57	719.81	0.000516	7.71	15968.13	664.03		0.25
SciotoRiver	245.057	100-Year	75000	682.94	714.36	697.2	714.92	0.000394	6.04	13090.91	587.75		0.21
SciotoRiver	245.057	10-Year	36800	682.94	707	693.1	707.27	0.000301	4.21	8950.19	521.19		0.17
SciotoRiver	245.057	50-Year	62100	682.94	712.26	696.01	712.71	0.000362	5.47	11866.63	573.48		0.2
SciotoRiver	245.057	500-Year	114000	682.94	718.89	700.55	719.8	0.00052	7.73	15870.15	642.47		0.25
SciotoRiver	245.05	100-Year	75000	682.45	714.33	697.28	714.91	0.000403	6.12	12940.75	583.3		0.21
SciotoRiver	245.05	10-Year	36800	682.45	706.98	693.04	707.26	0.000307	4.27	8842.61	517		0.18
SciotoRiver	245.05	50-Year	62100	682.45	712.23	696.02	712.7	0.000371	5.54	11728.13	568.97		0.2
SciotoRiver	245.05	500-Year	114000	682.45	718.85	700.68	719.78	0.000532	7.84	15691.92	640.62		0.25
SciotoRiver	245.04	100-Year	75000	682.35	714.27	697.71	714.88	0.000438	6.31	12634.13	587.62		0.22
SciotoRiver	245.04	10-Year	36800	682.35	706.94	693.3	707.24	0.000335	4.43	8556.33	507.53		0.18
SciotoRiver	245.04	50-Year	62100	682.35	712.18	696.4	712.68	0.000405	5.73	11418.27	571.45		0.21
SciotoRiver	245.04	500-Year	114000	682.35	718.76	701.11	719.74	0.000574	8.06	15402.88	654.28		0.26
SciotoRiver	245.033	100-Year	75000	682.31	714.23	697.71	714.86	0.000448	6.44	12555.52	602.61		0.22
SciotoRiver	245.033	10-Year	36800	682.31	706.91	693.23	707.22	0.00034	4.5	8446.75	497.69		0.19
SciotoRiver	245.033	50-Year	62100	682.31	712.14	696.4	712.66	0.000413	5.84	11312.64	584.96		0.21
SciotoRiver	245.033	500-Year	114000	682.31	718.7	701.15	719.72	0.000589	8.23	15390.8	674.9		0.26
SciotoRiver	245.023	100-Year	75000	681.78	714.21	697.72	714.83	0.000455	6.37	12532.64	638.72		0.23
SciotoRiver	245.023	10-Year	36800	681.78	706.89	693.25	707.21	0.000346	4.49	8337.31	488.01		0.19
SciotoRiver	245.023	50-Year	62100	681.78	712.12	696.4	712.63	0.000423	5.8	11219.38	615.6		0.21
SciotoRiver	245.023	500-Year	114000	681.78	718.69	701.16	719.68	0.000588	8.09	15547.03	720.73		0.26

PROPOSED MODEL SCHEMATIC





Proposed Model

Proposed Condtiions

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
SciotoRiver	256.066	100-Year	57000	695.9	724.83	706.85	724.93	0.000056	2.54	23134.9	1072.29	0.09	
SciotoRiver	256.066	10-Year	28900	695.9	716.35	704.99	716.41	0.000071	2.08	14145.18	1047.49	0.1	
SciotoRiver	256.066	50-Year	47500	695.9	722.12	706.26	722.21	0.00006	2.41	20243.35	1064.38	0.1	
SciotoRiver	256.066	500-Year	87000	695.9	731.59	708.44	731.71	0.000051	2.87	39042.53	4065.06	0.09	
SciotoRiver	256	100-Year	57000	696.7	724.8	707.65	724.91	0.000064	2.63	22246.41	1069.87	0.1	
SciotoRiver	256	10-Year	28900	696.7	716.31	705.79	716.38	0.000087	2.21	13269.22	1045.04	0.11	
SciotoRiver	256	50-Year	47500	696.7	722.09	707.06	722.19	0.000069	2.51	19359.34	1061.95	0.1	
SciotoRiver	256	500-Year	87000	696.7	731.56	709.24	731.69	0.000057	2.99	35679.52	4007.87	0.1	
SciotoRiver	255.96	100-Year	57000	696.5	724.73	708.15	724.85	0.000087	3.41	23173.33	1084.06	0.12	
SciotoRiver	255.96	10-Year	28900	696.5	716.23	705.93	716.32	0.000107	2.88	14030.12	1066.4	0.12	
SciotoRiver	255.96	50-Year	47500	696.5	722.02	707.5	722.13	0.000092	3.26	20241.02	1078.43	0.12	
SciotoRiver	255.96	500-Year	87000	696.5	731.46	709.88	731.64	0.000099	4.26	33397.03	2504.3	0.13	
SciotoRiver	255.95	100-Year	57000	691.4	723.66	711.09	724.53	0.000551	7.74	8040.89	395.5	0.28	
SciotoRiver	255.95	10-Year	28900	691.4	715.34	706.92	715.96	0.000655	6.4	4809.57	387	0.29	
SciotoRiver	255.95	50-Year	47500	691.4	721.01	709.64	721.8	0.000582	7.36	7000.53	387	0.28	
SciotoRiver	255.95	500-Year	87000	691.4	730.76	714.71	731.36	0.000333	7.18	23493.4	3486.1	0.23	
SciotoRiver	255.94	100-Year	57000	691.4	724.03	711.39	724.35	0.000253	4.85	14547.89	991.97	0.19	
SciotoRiver	255.94	10-Year	28900	691.4	715.49	707.09	715.86	0.000563	4.94	6282.64	944.24	0.26	
SciotoRiver	255.94	50-Year	47500	691.4	721.31	709.93	721.64	0.000311	4.87	11872.64	976.78	0.21	
SciotoRiver	255.94	500-Year	87000	691.4	731.01	713.9	731.24	0.000145	4.51	34844.04	4209.96	0.15	
SciotoRiver	255.93		Bridge										
SciotoRiver	255.92	100-Year	57000	691.4	723.37	711.42	724.18	0.000572	7.2	7926.27	395.66	0.28	
SciotoRiver	255.92	10-Year	28900	691.4	715.15	706.92	715.73	0.00078	6.1	4735.02	387	0.31	
SciotoRiver	255.92	50-Year	47500	691.4	720.76	709.74	721.5	0.000621	6.88	6905.02	387	0.29	
SciotoRiver	255.92	500-Year	87000	691.4	730.64	714.51	731.15	0.0003	6.39	24584.82	3989.88	0.21	
SciotoRiver	255.91	100-Year	57000	691.4	723.39	711.42	724.13	0.000513	7	8557.28	509.04	0.27	
SciotoRiver	255.91	10-Year	28900	691.4	715.11	706.92	715.69	0.000762	6.11	4758.12	414.99	0.31	
SciotoRiver	255.91	50-Year	47500	691.4	720.75	709.74	721.46	0.000573	6.77	7263.32	473.31	0.28	
SciotoRiver	255.91	500-Year	87000	691.4	730.71	714.58	731.1	0.000233	5.78	28070.07	3996.48	0.19	
SciotoRiver	255.9	AN 100-Year	57000	691.4	723.21	711.38	723.99	0.000571	7.15	8195.8	452.11	0.28	
SciotoRiver	255.9	AN 10-Year	28900	691.4	714.88	706.92	715.49	0.000836	6.23	4660.99	403.71	0.32	
SciotoRiver	255.9	AN 50-Year	47500	691.4	720.57	709.77	721.3	0.000631	6.89	7032.75	430.96	0.29	
SciotoRiver	255.9	AN 500-Year	87000	691.4	730.53	714.55	731.02	0.000295	6.31	23215.89	3376.7	0.21	
SciotoRiver	255.8	100-Year	57000	691.4	723.49	711.38	723.82	0.000276	4.98	13607.83	942.52	0.2	
SciotoRiver	255.8	10-Year	28900	691.4	714.97	707.09	715.37	0.000647	5.17	5934.16	604.85	0.28	
SciotoRiver	255.8	50-Year	47500	691.4	720.8	709.95	721.15	0.000344	5.02	11101.67	923.91	0.22	
SciotoRiver	255.8	500-Year	87000	691.4	730.7	713.88	730.93	0.000147	4.5	32831.66	4035.37	0.15	
SciotoRiver	255.75		Bridge										
SciotoRiver	255.7	100-Year	57000	691.4	722.75	711.42	723.6	0.000635	7.43	7679.05	395.09	0.29	
SciotoRiver	255.7	10-Year	28900	691.4	714.51	706.92	715.16	0.000929	6.44	4486.93	387	0.33	
SciotoRiver	255.7	50-Year	47500	691.4	720.15	709.74	720.94	0.000695	7.12	6668.1	387	0.3	
SciotoRiver	255.7	500-Year	87000	691.4	730.13	714.51	730.73	0.000348	6.79	22589.24	3887.28	0.23	
SciotoRiver	255.6	100-Year	57000	691.4	722.71	711.42	723.57	0.000605	7.44	7666.23	395.5	0.29	
SciotoRiver	255.6	10-Year	28900	691.4	714.46	706.92	715.11	0.000916	6.47	4467.26	386.95	0.34	
SciotoRiver	255.6	50-Year	47500	691.4	720.11	709.74	720.9	0.000668	7.14	6653.81	386.99	0.3	
SciotoRiver	255.6	500-Year	87000	691.4	730.18	714.52	730.68	0.000294	6.42	24959.89	3869.23	0.22	

Proposed Condtiions

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
SciotoRiver	255.5	100-Year	57000	691.4	722.56	711.36	723.43	0.000655	7.5	7606.52	395.5	0.3	
SciotoRiver	255.5	10-Year	28900	691.4	714.22	706.92	714.9	0.00101	6.61	4374.27	387	0.35	
SciotoRiver	255.5	50-Year	47500	691.4	719.94	709.77	720.75	0.000723	7.21	6588.8	387	0.31	
SciotoRiver	255.5	500-Year	87000	691.4	730.03	714.51	730.61	0.000345	6.74	21036	3227.6	0.23	
SciotoRiver	255.4	100-Year	57000	691.4	722.9	711.37	723.26	0.000301	5.09	13060.18	935.68	0.21	
SciotoRiver	255.4	10-Year	28900	691.4	714.34	707.09	714.78	0.000776	5.48	5554.94	594.74	0.3	
SciotoRiver	255.4	50-Year	47500	691.4	720.22	709.96	720.59	0.000384	5.18	10568.14	920.67	0.23	
SciotoRiver	255.4	500-Year	87000	691.4	730.26	713.83	730.49	0.00015	4.5	31110.46	3896.04	0.16	
SciotoRiver	255.3	Bridge											
SciotoRiver	255.2	100-Year	57000	691.4	721.95	711.39	722.88	0.000727	7.74	7367.25	387	0.31	
SciotoRiver	255.2	10-Year	28900	691.4	713.75	706.93	714.49	0.001153	6.89	4193.97	385.61	0.37	
SciotoRiver	255.2	50-Year	47500	691.4	719.39	709.64	720.25	0.000804	7.45	6375.23	387	0.32	
SciotoRiver	255.2	500-Year	87000	691.4	729.69	714.53	730.29	0.000373	6.85	20681.32	3785.15	0.24	
SciotoRiver	255.1	100-Year	57000	691.4	721.75	711.13	722.81	0.00069	8.56	7287.36	387	0.32	
SciotoRiver	255.1	10-Year	28900	691.4	713.57	706.93	714.41	0.000973	7.43	4124.3	383.82	0.36	
SciotoRiver	255.1	50-Year	47500	691.4	719.19	709.63	720.18	0.000751	8.22	6296.85	386.98	0.33	
SciotoRiver	255.1	500-Year	87000	691.4	729.68	714.79	730.26	0.000324	7.22	22684.87	3708.46	0.23	
SciotoRiver	254.95	100-Year	57000	693.3	721.85	707.61	722.33	0.000283	5.6	10767.69	576.45	0.21	
SciotoRiver	254.95	10-Year	28900	693.3	713.58	703.43	713.91	0.000356	4.6	6394.8	491.9	0.22	
SciotoRiver	254.95	50-Year	47500	693.3	719.26	706.58	719.7	0.000301	5.32	9303.32	546.33	0.21	
SciotoRiver	254.95	500-Year	87000	693.3	729.63	710.21	730.09	0.0002	5.76	22602.81	2649.88	0.19	
SciotoRiver	254.94	100-Year	57000	693.4	721.73	707.73	722.3	0.000369	6.04	9440.02	450.52	0.23	
SciotoRiver	254.94	10-Year	28900	693.4	713.49	703.54	713.87	0.000427	4.96	5831.49	424.08	0.24	
SciotoRiver	254.94	50-Year	47500	693.4	719.15	706.74	719.66	0.000385	5.73	8287.52	443.3	0.23	
SciotoRiver	254.94	500-Year	87000	693.4	729.56	710.57	730.07	0.0003	5.94	19956.24	2558.58	0.21	
SciotoRiver	254.93	Bridge											
SciotoRiver	254.92	100-Year	57000	693.4	721.62	707.73	722.19	0.000375	6.07	9391.58	450.3	0.23	
SciotoRiver	254.92	10-Year	28900	693.4	713.39	703.54	713.78	0.000437	4.99	5790.27	423.75	0.24	
SciotoRiver	254.92	50-Year	47500	693.4	719.05	706.74	719.56	0.000392	5.76	8241.14	442.94	0.24	
SciotoRiver	254.92	500-Year	87000	693.4	729.44	710.57	729.96	0.000306	5.99	19657.12	2520.08	0.21	
SciotoRiver	254.91	100-Year	57000	686.8	721.11	710.21	722.12	0.00068	8.18	7813.7	678.79	0.32	
SciotoRiver	254.91	10-Year	28900	686.8	712.95	706.42	713.71	0.000975	7	4196.47	364.75	0.35	
SciotoRiver	254.91	50-Year	47500	686.8	718.55	708.96	719.49	0.000748	7.85	6315.84	391.83	0.33	
SciotoRiver	254.91	500-Year	87000	686.8	728.94	713.47	729.89	0.000453	8.26	13431.14	745.45	0.27	
SciotoRiver	254.5	AN 100-Year	57000	687	720.74	709.38	721.58	0.000588	7.36	7969.96	431.74	0.29	
SciotoRiver	254.5	AN 10-Year	28900	687	712.29	705.83	712.94	0.000907	6.52	4479.64	393.61	0.33	
SciotoRiver	254.5	AN 50-Year	47500	687	718.12	708.34	718.9	0.000648	7.09	6854.36	419.93	0.3	
SciotoRiver	254.5	AN 500-Year	87000	687	728.59	712.27	729.54	0.000454	7.91	11505.76	485.02	0.27	
SciotoRiver	254.4	100-Year	57000	685.4	720.73	709.06	721.52	0.000619	7.14	7986	436.4	0.29	
SciotoRiver	254.4	10-Year	28900	685.4	712.24	705.34	712.87	0.000876	6.38	4530.34	381.64	0.33	
SciotoRiver	254.4	50-Year	47500	685.4	718.1	707.94	718.84	0.000675	6.93	6855.73	418.9	0.3	
SciotoRiver	254.4	500-Year	87000	685.4	728.6	712.1	729.49	0.000468	7.55	11550.18	490.78	0.27	
SciotoRiver	254.3	Bridge											
SciotoRiver	254.2	100-Year	57000	685.4	720.39	709.06	721.22	0.000655	7.27	7840.66	435.34	0.3	

Proposed Condtiions

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
SciotoRiver	254.2	10-Year	28900	685.4	711.86	705.34	712.54	0.000969	6.59	4386.65	379.99	0.34	
SciotoRiver	254.2	50-Year	47500	685.4	717.77	707.94	718.54	0.000716	7.07	6718.56	415.99	0.31	
SciotoRiver	254.2	500-Year	87000	685.4	728.04	712.1	728.95	0.000496	7.68	11743.12	640.7	0.27	
SciotoRiver	254.1	100-Year	57000	685.5	720.32	708.82	721.14	0.000559	7.3	8092.7	436.85	0.29	
SciotoRiver	254.1	10-Year	28900	685.5	711.77	703.9	712.41	0.000908	6.47	4515.48	398.15	0.33	
SciotoRiver	254.1	50-Year	47500	685.5	717.7	707.74	718.46	0.00062	7.01	6960.1	425.71	0.29	
SciotoRiver	254.1	500-Year	87000	685.5	727.93	711.76	728.89	0.000437	7.98	11743.09	583.44	0.27	
SciotoRiver	253.6	AL 100-Year	75000	693	720.31	704.19	720.72	0.000213	5.14	15042.45	680.79	0.19	
SciotoRiver	253.6	AL 10-Year	36800	693	711.68	701.05	711.92	0.000232	3.98	9346.33	638.04	0.18	
SciotoRiver	253.6	AL 50-Year	62100	693	717.67	703.2	718.02	0.000217	4.8	13258.76	668.1	0.18	
SciotoRiver	253.6	AL 500-Year	114000	693	727.98	706.76	728.5	0.000192	5.88	21020.84	985.71	0.18	
SciotoRiver	253.5	100-Year	75000	693.1	719.88	705.45	720.53	0.000352	6.54	11970.08	555.21	0.24	
SciotoRiver	253.5	10-Year	36800	693.1	711.33	701.94	711.73	0.00039	5.09	7373.25	520.02	0.23	
SciotoRiver	253.5	50-Year	62100	693.1	717.26	704.36	717.84	0.00036	6.11	10532.21	544.45	0.24	
SciotoRiver	253.5	500-Year	114000	693.1	727.54	708.43	728.33	0.000302	7.3	19389.03	1644.22	0.23	
SciotoRiver	253.4	100-Year	75000	691.4	719.96	705.29	720.48	0.000318	5.75	13050.64	603.03	0.22	
SciotoRiver	253.4	10-Year	36800	691.4	711.36	702.07	711.69	0.000358	4.6	8004.32	573.63	0.22	
SciotoRiver	253.4	50-Year	62100	691.4	717.33	704.28	717.79	0.000323	5.41	11480.23	590.49	0.22	
SciotoRiver	253.4	500-Year	114000	691.4	727.74	707.98	728.23	0.000262	5.82	25979.69	2774.02	0.2	
SciotoRiver	253.3	Bridge											
SciotoRiver	253.2	100-Year	75000	691.4	719.92	705.29	720.43	0.00032	5.76	13022.2	602.85	0.22	
SciotoRiver	253.2	10-Year	36800	691.4	711.33	702.07	711.66	0.00036	4.61	7985.24	573.56	0.22	
SciotoRiver	253.2	50-Year	62100	691.4	717.29	704.28	717.75	0.000325	5.42	11455.69	590.47	0.22	
SciotoRiver	253.2	500-Year	114000	691.4	727.56	707.98	728.11	0.000286	6.06	22624.64	2227.66	0.21	
SciotoRiver	253.1	100-Year	75000	691.4	719.9	705.29	720.41	0.000316	5.72	13111.9	605.86	0.22	
SciotoRiver	253.1	10-Year	36800	691.4	711.32	702.04	711.64	0.000359	4.58	8043.24	580.5	0.22	
SciotoRiver	253.1	50-Year	62100	691.4	717.28	704.28	717.73	0.000321	5.38	11541.74	592	0.21	
SciotoRiver	253.1	500-Year	114000	691.4	727.5	707.95	728.09	0.000263	6.25	20994.88	2108.21	0.21	
SciotoRiver	252.8	100-Year	75000	692.84	719.76	703.91	720.33	0.000242	6.14	13549.87	934.35	0.22	
SciotoRiver	252.8	10-Year	36800	692.84	711.22	700.22	711.56	0.000246	4.68	8011.47	557.11	0.2	
SciotoRiver	252.8	50-Year	62100	692.84	717.15	702.74	717.64	0.000243	5.71	11578.63	647.44	0.21	
SciotoRiver	252.8	500-Year	114000	692.84	727.4	706.95	728.02	0.000198	6.62	20952.17	1321.44	0.2	
SciotoRiver	252.5	AK 100-Year	75000	687	719.72	701.38	720.13	0.000162	5.27	15806.14	1217.22	0.18	
SciotoRiver	252.5	AK 10-Year	36800	687	711.15	697.14	711.39	0.000155	4	9704.31	682.55	0.16	
SciotoRiver	252.5	AK 50-Year	62100	687	717.1	700.17	717.46	0.000161	4.91	13890.53	806.19	0.18	
SciotoRiver	252.5	AK 500-Year	114000	687	727.35	704.75	727.86	0.000149	5.98	21799.69	1626.95	0.18	
SciotoRiver	252.3	Bridge											
SciotoRiver	252.1	100-Year	75000	691.49	719.31	705.47	719.94	0.000301	6.66	12720.72	1003.49	0.24	
SciotoRiver	252.1	10-Year	36800	691.49	710.75	701.25	711.21	0.000372	5.51	7153.53	643.51	0.25	
SciotoRiver	252.1	50-Year	62100	691.49	716.7	704.21	717.28	0.000317	6.33	10968.36	820.89	0.24	
SciotoRiver	252.1	500-Year	114000	691.49	726.72	709.1	727.46	0.000256	7.36	17808.08	1584.02	0.23	
SciotoRiver	252.06	100-Year	75000	687	719.16	703.18	719.85	0.000285	6.91	12077.31	687.48	0.24	
SciotoRiver	252.06	10-Year	36800	687	710.69	697.68	711.12	0.000279	5.29	7308.63	504.34	0.22	
SciotoRiver	252.06	50-Year	62100	687	716.57	701.64	717.19	0.000286	6.46	10549.4	657.1	0.23	
SciotoRiver	252.06	500-Year	114000	687	726.66	706.99	727.4	0.000238	7.45	20683.69	1471.11	0.22	

Proposed Condtiions

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
SciotoRiver	251.8	100-Year	75000	691.95	718.79	705.59	719.71	0.000417	8	10465.9	553.27	0.28	
SciotoRiver	251.8	10-Year	36800	691.95	710.36	700.87	710.97	0.000458	6.36	6163.93	478.78	0.28	
SciotoRiver	251.8	50-Year	62100	691.95	716.22	704.07	717.05	0.000427	7.53	9083.39	524.51	0.28	
SciotoRiver	251.8	500-Year	114000	691.95	726.22	709.61	727.27	0.000354	8.79	16676.09	1286.3	0.27	
SciotoRiver	251.75	100-Year	75000	682	718.73	703.9	719.53	0.000362	7.54	11567.27	619.9	0.26	
SciotoRiver	251.75	10-Year	36800	682	710.28	698.98	710.8	0.000368	5.88	6805.33	519.52	0.24	
SciotoRiver	251.75	50-Year	62100	682	716.16	702.28	716.87	0.000363	7.05	10039.77	577.34	0.25	
SciotoRiver	251.75	500-Year	114000	682	726.19	708.15	727.11	0.000317	8.32	16915.87	817.44	0.25	
SciotoRiver	251.5	AJ 100-Year	75000	691.94	718.64	705.56	719.42	0.000363	7.54	11701.81	634.09	0.27	
SciotoRiver	251.5	AJ 10-Year	36800	691.94	710.12	700.65	710.68	0.000419	6.15	6634.92	534.26	0.27	
SciotoRiver	251.5	AJ 50-Year	62100	691.94	716.05	703.88	716.76	0.000376	7.14	10091.23	607.66	0.27	
SciotoRiver	251.5	AJ 500-Year	114000	691.94	726.11	709.18	727.01	0.000309	8.29	16641.67	721.88	0.26	
SciotoRiver	251.3	Bridge											
SciotoRiver	251.1	100-Year	75000	688.4	718.16	704.43	718.95	0.000349	7.58	11322.03	594.62	0.26	
SciotoRiver	251.1	10-Year	36800	688.4	709.92	699.14	710.44	0.000357	5.97	6732.66	503.15	0.25	
SciotoRiver	251.1	50-Year	62100	688.4	715.69	702.58	716.4	0.000352	7.13	9870.97	580.64	0.26	
SciotoRiver	251.1	500-Year	114000	688.4	725	708.31	725.98	0.000326	8.56	15541.84	627.42	0.26	
SciotoRiver	250.776	100-Year	75000	685	717.77	704.72	718.79	0.000468	8.64	10273.43	553.3	0.29	
SciotoRiver	250.776	10-Year	36800	685	709.66	698.72	710.31	0.000446	6.65	6125.07	453.8	0.27	
SciotoRiver	250.776	50-Year	62100	685	715.34	702.5	716.25	0.000463	8.07	8956.07	532.98	0.29	
SciotoRiver	250.776	500-Year	114000	685	724.51	708.86	725.79	0.000457	9.91	14369.97	717.69	0.3	
SciotoRiver	250.6268	100-Year	75000	691.02	717.48	705.41	718.63	0.000584	9.21	9834.47	593.35	0.32	
SciotoRiver	250.6268	10-Year	36800	691.02	709.26	700.25	710.13	0.00067	7.62	5285.3	520.19	0.32	
SciotoRiver	250.6268	50-Year	62100	691.02	715.01	703.83	716.09	0.000605	8.77	8404.24	568.06	0.32	
SciotoRiver	250.6268	500-Year	114000	691.02	724.37	710.96	725.66	0.000505	10.05	14148.44	656.96	0.31	
SciotoRiver	250.5503 /	100-Year	75000	685	717.38	704.53	718.4	0.000478	8.62	10349.56	588.76	0.3	
SciotoRiver	250.5503 /	10-Year	36800	685	709.19	698.81	709.86	0.000485	6.78	5978.34	450.95	0.28	
SciotoRiver	250.5503 /	50-Year	62100	685	714.93	702.49	715.84	0.00048	8.09	8933.17	540.74	0.29	
SciotoRiver	250.5503 /	500-Year	114000	685	724.26	708.78	725.47	0.00044	9.66	14546.38	661.95	0.3	
SciotoRiver	250.4728	100-Year	75000	691.05	717.09	705.52	718.15	0.000496	8.78	9953.24	543.3	0.31	
SciotoRiver	250.4728	10-Year	36800	691.05	708.85	699.97	709.59	0.000551	7.08	5750.89	464.05	0.31	
SciotoRiver	250.4728	50-Year	62100	691.05	714.62	703.6	715.59	0.000509	8.29	8634.01	526.89	0.31	
SciotoRiver	250.4728	500-Year	114000	691.05	723.98	709.3	725.25	0.000444	9.77	13931.95	627.69	0.31	
SciotoRiver	250.4469	Bridge											
SciotoRiver	249.79	100-Year	75000	690.25	716.81	704.79	717.81	0.000464	8.55	10363.76	564.44	0.3	
SciotoRiver	249.79	10-Year	36800	690.25	708.64	699.2	709.32	0.000495	6.8	6017.1	491.17	0.29	
SciotoRiver	249.79	50-Year	62100	690.25	714.37	702.8	715.27	0.000471	8.04	9007.47	547.98	0.3	
SciotoRiver	249.79	500-Year	114000	690.25	723.54	708.63	724.76	0.000427	9.6	14222.51	613.67	0.3	
SciotoRiver	249.76	100-Year	75000	684	716.47	704.14	717.64	0.000521	9.17	9524.83	528.32	0.32	
SciotoRiver	249.76	10-Year	36800	684	708.44	698.47	709.18	0.000506	7.07	5712.33	421.54	0.29	
SciotoRiver	249.76	50-Year	62100	684	714.05	702.36	715.11	0.000524	8.62	8269.27	509.06	0.31	
SciotoRiver	249.76	500-Year	114000	684	723.2	708.49	724.6	0.000481	10.26	13500.66	631.03	0.32	
SciotoRiver	249.5	AH 100-Year	75000	690.05	716.57	702.91	717.36	0.000362	7.52	11527.95	652.19	0.27	
SciotoRiver	249.5	AH 10-Year	36800	690.05	708.45	698.32	708.99	0.000384	5.96	6636.37	512.8	0.26	
SciotoRiver	249.5	AH 50-Year	62100	690.05	714.13	701.49	714.85	0.000371	7.11	9955.44	636.6	0.26	
SciotoRiver	249.5	AH 500-Year	114000	690.05	723.34	706.78	724.29	0.000328	8.39	16087.2	745.17	0.26	

Proposed Condtiions

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
SciotoRiver	249.3		Bridge										
SciotoRiver	249.1	100-Year	75000	689.91	716.34	702.91	717.03	0.000327	7.19	12616.99	716.15		0.25
SciotoRiver	249.1	10-Year	36800	689.91	708.33	698.07	708.82	0.00036	5.86	7182.89	637		0.25
SciotoRiver	249.1	50-Year	62100	689.91	713.98	701.37	714.61	0.000332	6.79	10950.82	694.57		0.25
SciotoRiver	249.1	500-Year	114000	689.91	722.32	707.19	723.19	0.000324	8.25	17064.92	1131.72		0.26
SciotoRiver	249	100-Year	75000	689.44	715.82	703.77	716.84	0.000475	8.65	10426.49	825.22		0.3
SciotoRiver	249	10-Year	36800	689.44	708.05	698.38	708.69	0.000459	6.65	6288.14	499.05		0.28
SciotoRiver	249	50-Year	62100	689.44	713.54	702.15	714.44	0.000466	8.05	9161.63	722.76		0.3
SciotoRiver	249	500-Year	114000	689.44	721.54	707.42	722.94	0.000512	10.29	13960.25	990.59		0.33
SciotoRiver	248.3	100-Year	75000	687.79	715.8	702.02	716.75	0.000405	8.21	10613.76	943.8		0.28
SciotoRiver	248.3	10-Year	36800	687.79	708.05	696.98	708.6	0.000357	6.1	6570.83	460.57		0.25
SciotoRiver	248.3	50-Year	62100	687.79	713.51	700.45	714.35	0.000395	7.63	9246.46	812.85		0.27
SciotoRiver	248.3	500-Year	114000	687.79	721.69	706.17	722.78	0.000387	9.18	16192.49	998.79		0.29
SciotoRiver	247.5	AC 100-Year	75000	685.23	715.88	699.82	716.58	0.000283	7.01	12857.6	918.32		0.24
SciotoRiver	247.5	AC 10-Year	36800	685.23	708.09	695.35	708.49	0.000236	5.11	8043.08	579.1		0.2
SciotoRiver	247.5	AC 50-Year	62100	685.23	713.59	698.42	714.19	0.00027	6.45	11379.49	768.77		0.23
SciotoRiver	247.5	AC 500-Year	114000	685.23	721.76	703.67	722.62	0.000289	8.07	19130	975.39		0.25
SciotoRiver	247.3		Bridge										
SciotoRiver	247.1	100-Year	75000	682	715.69	699.71	716.32	0.000261	6.59	12518.12	590.86		0.23
SciotoRiver	247.1	10-Year	36800	682	707.97	694.41	708.31	0.000219	4.79	8171.28	529.31		0.2
SciotoRiver	247.1	50-Year	62100	682	713.46	698.29	713.99	0.000247	6.04	11213.83	577.95		0.22
SciotoRiver	247.1	500-Year	114000	682	720.69	703.33	721.66	0.000322	8.21	15571.85	715.07		0.26
SciotoRiver	246.8	100-Year	75000	686.53	715.66	698.96	716.22	0.000224	6.15	13329.46	590.89		0.21
SciotoRiver	246.8	10-Year	36800	686.53	707.94	695.07	708.23	0.000181	4.4	8888.38	562.39		0.18
SciotoRiver	246.8	50-Year	62100	686.53	713.43	697.75	713.9	0.00021	5.61	12025.14	580.63		0.2
SciotoRiver	246.8	500-Year	114000	686.53	720.65	702.22	721.53	0.000283	7.76	16370.85	633.56		0.24
SciotoRiver	246.39	100-Year	75000	684.92	715.66	696.49	715.89	0.000144	3.98	20106.09	894.17		0.14
SciotoRiver	246.39	10-Year	36800	684.92	707.89	693.24	708.01	0.000119	2.88	13413.57	828.77		0.12
SciotoRiver	246.39	50-Year	62100	684.92	713.42	695.5	713.61	0.000135	3.64	18127.26	873.2		0.13
SciotoRiver	246.39	500-Year	114000	684.92	720.72	699.09	721.07	0.000176	4.94	24662.62	915		0.15
SciotoRiver	246.38		Bridge										
SciotoRiver	246.37	100-Year	75000	687.47	715.42	699.23	715.83	0.000286	5.38	15383.59	806.49		0.19
SciotoRiver	246.37	10-Year	36800	687.47	707.7	695.68	707.96	0.000275	4.14	9427.33	737.28		0.17
SciotoRiver	246.37	50-Year	62100	687.47	713.19	698.16	713.55	0.00028	5	13604.69	790.66		0.18
SciotoRiver	246.37	500-Year	114000	687.47	720.4	702.14	720.99	0.00033	6.52	19531.07	855.17		0.21
SciotoRiver	246.35	100-Year	75000	688.1	715.35	699.03	715.8	0.000306	5.59	14659.51	769.53		0.2
SciotoRiver	246.35	10-Year	36800	688.1	707.67	695.46	707.94	0.000278	4.19	9169.86	634.93		0.18
SciotoRiver	246.35	50-Year	62100	688.1	713.13	697.98	713.53	0.000297	5.18	12991.6	736.64		0.19
SciotoRiver	246.35	500-Year	114000	688.1	720.31	701.95	720.96	0.000354	6.76	18582.06	797.72		0.22
SciotoRiver	246.34		Bridge										
SciotoRiver	246.33	100-Year	75000	686.21	715.37	697.77	715.74	0.000223	4.93	15414.16	700.18		0.17
SciotoRiver	246.33	10-Year	36800	686.21	707.68	694.32	707.89	0.000205	3.66	10105.15	660.17		0.16
SciotoRiver	246.33	50-Year	62100	686.21	713.15	696.7	713.47	0.000216	4.54	13866.59	694.77		0.17
SciotoRiver	246.33	500-Year	114000	686.21	720.32	700.69	720.9	0.000262	6.07	18893.75	703.85		0.2

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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
SciotoRiver	246.31	100-Year	75000	686.2	715.32	697.91	715.74	0.000263	5.32	15056.46	684.12	0.18	
SciotoRiver	246.31	10-Year	36800	686.2	707.66	694.41	707.89	0.000218	3.85	9889.84	637.19	0.16	
SciotoRiver	246.31	50-Year	62100	686.2	713.11	696.81	713.46	0.000249	4.88	13549.05	678.72	0.18	
SciotoRiver	246.31	500-Year	114000	686.2	720.25	700.75	720.89	0.000324	6.62	18453.6	691.93	0.21	
SciotoRiver	246.3	Bridge											
SciotoRiver	246.29	100-Year	75000	685.88	715.29	697.78	715.7	0.00026	5.27	15075.91	676.29	0.18	
SciotoRiver	246.29	10-Year	36800	685.88	707.64	694.24	707.86	0.000214	3.8	9992.42	615.83	0.16	
SciotoRiver	246.29	50-Year	62100	685.88	713.08	696.69	713.42	0.000245	4.82	13584.99	672.96	0.17	
SciotoRiver	246.29	500-Year	114000	685.88	720.2	700.64	720.83	0.000323	6.59	18400.46	679.89	0.21	
SciotoRiver	246.27	100-Year	75000	685.83	715.3	697.68	715.67	0.000237	5.06	15851.37	713.28	0.17	
SciotoRiver	246.27	10-Year	36800	685.83	707.64	694.29	707.84	0.000198	3.67	10468.16	653.7	0.15	
SciotoRiver	246.27	50-Year	62100	685.83	713.09	696.65	713.41	0.000225	4.64	14275.95	711.01	0.17	
SciotoRiver	246.27	500-Year	114000	685.83	720.23	700.53	720.8	0.000294	6.31	19389.17	724.06	0.2	
SciotoRiver	246	Bridge											
SciotoRiver	245.46	100-Year	75000	685.55	715.21	698.14	715.61	0.000264	5.27	15247.04	714.17	0.18	
SciotoRiver	245.46	10-Year	36800	685.55	707.57	694.76	707.79	0.000223	3.84	10011.28	649.8	0.16	
SciotoRiver	245.46	50-Year	62100	685.55	713	697.11	713.35	0.00025	4.83	13685.84	703.46	0.18	
SciotoRiver	245.46	500-Year	114000	685.55	720.1	700.98	720.72	0.000324	6.55	18841.03	752.29	0.21	
SciotoRiver	245.44	100-Year	75000	684.87	715.07	699.4	715.58	0.000349	5.81	13507.84	640.8	0.21	
SciotoRiver	245.44	10-Year	36800	684.87	707.48	695.88	707.76	0.000309	4.27	8820.91	586.96	0.18	
SciotoRiver	245.44	50-Year	62100	684.87	712.88	698.32	713.31	0.000334	5.34	12115.71	631.05	0.2	
SciotoRiver	245.44	500-Year	114000	684.87	719.9	702.34	720.68	0.000424	7.22	16655.95	664.12	0.24	
SciotoRiver	245.43	Bridge											
SciotoRiver	245.42	100-Year	75000	688.24	715.02	699.08	715.52	0.00034	5.81	13607.23	630.24	0.2	
SciotoRiver	245.42	10-Year	36800	688.24	707.45	695.48	707.72	0.000293	4.24	8961.9	586.06	0.18	
SciotoRiver	245.42	50-Year	62100	688.24	712.84	697.97	713.26	0.000322	5.32	12244.82	621.2	0.2	
SciotoRiver	245.42	500-Year	114000	688.24	719.83	702.08	720.6	0.00042	7.26	16721.5	661.74	0.23	
SciotoRiver	245.4	100-Year	75000	683.7	714.83	698.22	715.38	0.000345	6.02	13669.17	613.4	0.21	
SciotoRiver	245.4	10-Year	36800	683.7	707.33	694.65	707.61	0.000269	4.23	9223	576.15	0.17	
SciotoRiver	245.4	50-Year	62100	683.7	712.68	697.14	713.13	0.000319	5.46	12364.59	599.41	0.2	
SciotoRiver	245.4	500-Year	114000	683.7	719.54	701.28	720.42	0.000448	7.67	16614.03	638.67	0.24	
SciotoRiver	245.38	100-Year	75000	683.85	714.82	698.12	715.37	0.000378	6.05	13730.44	611.8	0.21	
SciotoRiver	245.38	10-Year	36800	683.85	707.33	694.47	707.6	0.000291	4.25	9283.69	575.17	0.17	
SciotoRiver	245.38	50-Year	62100	683.85	712.67	696.96	713.12	0.000349	5.49	12424.25	602.06	0.2	
SciotoRiver	245.38	500-Year	114000	683.85	719.53	701.24	720.41	0.000493	7.71	16659.96	633.22	0.24	
SciotoRiver	245.36	100-Year	75000	683.99	714.81	697.95	715.36	0.000376	6.1	13801.56	605.25	0.21	
SciotoRiver	245.36	10-Year	36800	683.99	707.32	694.22	707.59	0.000285	4.26	9391.87	568.13	0.17	
SciotoRiver	245.36	50-Year	62100	683.99	712.66	696.78	713.11	0.000345	5.52	12509.78	596.68	0.2	
SciotoRiver	245.36	500-Year	114000	683.99	719.51	701.13	720.39	0.000493	7.78	16700.3	627.15	0.25	
SciotoRiver	245.34	100-Year	75000	684.13	714.82	697.65	715.35	0.000357	5.91	13859.13	597.19	0.2	
SciotoRiver	245.34	10-Year	36800	684.13	707.33	694	707.58	0.000269	4.12	9480.08	571.18	0.17	
SciotoRiver	245.34	50-Year	62100	684.13	712.67	696.48	713.1	0.000328	5.36	12582.24	589.79	0.19	
SciotoRiver	245.34	500-Year	114000	684.13	719.52	700.67	720.37	0.000471	7.57	16748.08	628.3	0.24	
SciotoRiver	245.32	100-Year	75000	684.26	714.83	697.54	715.33	0.000343	5.74	13963.22	605.96	0.2	

Proposed Condtiions

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
SciotoRiver	245.32	10-Year	36800	684.26	707.33	693.85	707.58	0.000262	4.01	9525.92	573.93	0.16	
SciotoRiver	245.32	50-Year	62100	684.26	712.68	696.4	713.09	0.000315	5.2	12666.32	598.11	0.19	
SciotoRiver	245.32	500-Year	114000	684.26	719.54	700.57	720.35	0.00045	7.34	16877.23	634.88	0.23	
SciotoRiver	245.3	100-Year	75000	684.1	714.78	697.42	715.32	0.000361	6.05	13901.94	608.25	0.2	
SciotoRiver	245.3	10-Year	36800	684.1	707.3	693.7	707.57	0.000266	4.2	9488.84	569.44	0.17	
SciotoRiver	245.3	50-Year	62100	684.1	712.63	696.25	713.08	0.00033	5.48	12608.07	598.21	0.19	
SciotoRiver	245.3	500-Year	114000	684.1	719.46	700.64	720.34	0.00048	7.76	16789.74	631.35	0.24	
SciotoRiver	245.28	100-Year	75000	684.52	714.78	697.39	715.31	0.000357	5.98	13814.02	628.19	0.2	
SciotoRiver	245.28	10-Year	36800	684.52	707.3	693.73	707.56	0.000264	4.14	9474.1	566.47	0.17	
SciotoRiver	245.28	50-Year	62100	684.52	712.63	696.25	713.07	0.000326	5.41	12543.56	607.14	0.19	
SciotoRiver	245.28	500-Year	114000	684.52	719.45	700.54	720.32	0.000475	7.67	16670.01	687.36	0.24	
SciotoRiver	245.26	100-Year	75000	684.49	714.77	697.35	715.3	0.000356	5.98	13819.47	669.58	0.2	
SciotoRiver	245.26	10-Year	36800	684.49	707.3	693.62	707.56	0.000263	4.14	9460.91	566.39	0.17	
SciotoRiver	245.26	50-Year	62100	684.49	712.62	696.2	713.06	0.000325	5.41	12544.26	652.18	0.19	
SciotoRiver	245.26	500-Year	114000	684.49	719.44	700.5	720.31	0.000475	7.68	16669.75	727.28	0.24	
SciotoRiver	245.24	100-Year	75000	684.12	714.75	697.28	715.3	0.00036	6.06	13875.51	694.94	0.2	
SciotoRiver	245.24	10-Year	36800	684.12	707.29	693.49	707.55	0.000263	4.19	9518.03	568.33	0.17	
SciotoRiver	245.24	50-Year	62100	684.12	712.61	696.08	713.06	0.000328	5.48	12601.93	675.21	0.19	
SciotoRiver	245.24	500-Year	114000	684.12	719.42	700.56	720.3	0.000482	7.79	16716.55	761.39	0.24	
SciotoRiver	245.22	100-Year	75000	683.75	714.75	697.05	715.29	0.000354	6.07	13965.61	711.33	0.2	
SciotoRiver	245.22	10-Year	36800	683.75	707.28	693.25	707.55	0.000256	4.18	9624.94	568.22	0.16	
SciotoRiver	245.22	50-Year	62100	683.75	712.61	695.88	713.05	0.000322	5.48	12700.35	691.23	0.19	
SciotoRiver	245.22	500-Year	114000	683.75	719.41	700.26	720.29	0.000478	7.81	16794.79	796.67	0.24	
SciotoRiver	245.127	100-Year	75000	684.2	714.53	697.45	715.07	0.000381	5.96	13403.08	609.06	0.21	
SciotoRiver	245.127	10-Year	36800	684.2	707.12	693.58	707.38	0.000292	4.16	9115.14	551.85	0.17	
SciotoRiver	245.127	50-Year	62100	684.2	712.4	696.31	712.85	0.00035	5.4	12137.55	588.16	0.2	
SciotoRiver	245.127	500-Year	114000	684.2	719.13	700.65	720	0.000496	7.59	16725.48	786.06	0.24	
SciotoRiver	245.119	100-Year	75000	682.09	714.51	697.66	715.05	0.00039	5.98	13331.56	593.05	0.21	
SciotoRiver	245.119	10-Year	36800	682.09	707.1	693.89	707.37	0.000303	4.2	9054.93	553.95	0.17	
SciotoRiver	245.119	50-Year	62100	682.09	712.38	696.53	712.83	0.00036	5.43	12080.17	585.87	0.2	
SciotoRiver	245.119	500-Year	114000	682.09	719.1	700.92	719.97	0.000508	7.63	16439.58	745.48	0.25	
SciotoRiver	245.111	100-Year	75000	681.23	714.5	697.61	715.04	0.000389	5.95	13333.63	592.89	0.21	
SciotoRiver	245.111	10-Year	36800	681.23	707.09	693.92	707.36	0.000305	4.18	9056.79	554.01	0.17	
SciotoRiver	245.111	50-Year	62100	681.23	712.37	696.5	712.82	0.00036	5.4	12083.65	584.81	0.2	
SciotoRiver	245.111	500-Year	114000	681.23	719.08	700.8	719.95	0.000507	7.59	16324.87	735.87	0.24	
SciotoRiver	245.097	100-Year	75000	680.84	714.47	697.52	715	0.000379	5.89	13388.3	604.32	0.21	
SciotoRiver	245.097	10-Year	36800	680.84	707.07	693.79	707.33	0.000295	4.13	9099.48	551.36	0.17	
SciotoRiver	245.097	50-Year	62100	680.84	712.35	696.39	712.79	0.00035	5.34	12121.87	589.85	0.2	
SciotoRiver	245.097	500-Year	114000	680.84	719.05	700.67	719.91	0.000495	7.52	16333.13	695.13	0.24	
SciotoRiver	245.09	100-Year	75000	682.59	714.46	697.56	714.99	0.000375	5.87	13371.96	600.33	0.21	
SciotoRiver	245.09	10-Year	36800	682.59	707.06	693.76	707.32	0.000291	4.11	9117	547.51	0.17	
SciotoRiver	245.09	50-Year	62100	682.59	712.34	696.4	712.78	0.000346	5.32	12114.61	585.81	0.19	
SciotoRiver	245.09	500-Year	114000	682.59	719.04	700.69	719.89	0.000491	7.5	16313.86	691.47	0.24	
SciotoRiver	245.082	100-Year	75000	683.31	714.44	697.42	714.97	0.000376	5.9	13346.13	598.29	0.21	
SciotoRiver	245.082	10-Year	36800	683.31	707.05	693.56	707.31	0.00029	4.12	9104.04	548.18	0.17	
SciotoRiver	245.082	50-Year	62100	683.31	712.32	696.24	712.76	0.000347	5.35	12094.28	584.16	0.2	
SciotoRiver	245.082	500-Year	114000	683.31	719.01	700.62	719.87	0.000493	7.54	16247.03	685.38	0.24	

Proposed Condtiions

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
SciotoRiver	245.076	100-Year	75000	683.56	714.42	697.21	714.96	0.000345	5.94	13357.48	597.75	0.21	
SciotoRiver	245.076	10-Year	36800	683.56	707.03	693.32	707.3	0.000264	4.14	9124.08	547.01	0.17	
SciotoRiver	245.076	50-Year	62100	683.56	712.31	696.03	712.75	0.000317	5.38	12108.13	583.58	0.2	
SciotoRiver	245.076	500-Year	114000	683.56	718.98	700.49	719.85	0.000453	7.6	16242.6	691.32	0.24	
SciotoRiver	245.067	100-Year	75000	683.84	714.4	697.32	714.94	0.000385	5.98	13211.05	587.73	0.21	
SciotoRiver	245.067	10-Year	36800	683.84	707.02	693.32	707.29	0.000295	4.18	9026.23	530.42	0.17	
SciotoRiver	245.067	50-Year	62100	683.84	712.28	696.12	712.73	0.000354	5.42	11978.52	577.95	0.2	
SciotoRiver	245.067	500-Year	114000	683.84	718.94	700.6	719.83	0.000506	7.66	16015.19	667.92	0.25	
SciotoRiver	245.06	100-Year	75000	683.31	714.37	697.27	714.93	0.000391	6.03	13127.52	590.1	0.21	
SciotoRiver	245.06	10-Year	36800	683.31	707	693.2	707.27	0.000299	4.2	8968.19	523.52	0.17	
SciotoRiver	245.06	50-Year	62100	683.31	712.26	696.05	712.72	0.00036	5.46	11897.71	575.78	0.2	
SciotoRiver	245.06	500-Year	114000	683.31	718.91	700.57	719.81	0.000516	7.71	15975.23	684.37	0.25	
SciotoRiver	245.057	100-Year	75000	682.94	714.36	697.2	714.92	0.000394	6.04	13090.17	587.91	0.21	
SciotoRiver	245.057	10-Year	36800	682.94	707	693.1	707.27	0.000301	4.21	8948.43	521.02	0.17	
SciotoRiver	245.057	50-Year	62100	682.94	712.26	696.01	712.71	0.000362	5.47	11865.33	573.74	0.2	
SciotoRiver	245.057	500-Year	114000	682.94	718.89	700.55	719.8	0.00052	7.74	15880.12	662.23	0.25	
SciotoRiver	245.05	100-Year	75000	682.45	714.33	697.28	714.91	0.000403	6.12	12940.92	583.3	0.21	
SciotoRiver	245.05	10-Year	36800	682.45	706.98	693.04	707.26	0.000307	4.27	8842.61	517	0.18	
SciotoRiver	245.05	50-Year	62100	682.45	712.23	696.02	712.7	0.000371	5.54	11728.2	568.98	0.2	
SciotoRiver	245.05	500-Year	114000	682.45	718.85	700.68	719.78	0.000532	7.84	15694.69	651.38	0.25	
SciotoRiver	245.04	100-Year	75000	682.35	714.27	697.71	714.88	0.000438	6.31	12634.35	587.63	0.22	
SciotoRiver	245.04	10-Year	36800	682.35	706.94	693.3	707.24	0.000335	4.43	8556.33	507.53	0.18	
SciotoRiver	245.04	50-Year	62100	682.35	712.18	696.4	712.68	0.000405	5.73	11418.34	571.45	0.21	
SciotoRiver	245.04	500-Year	114000	682.35	718.77	701.11	719.75	0.000574	8.06	15404.33	654.31	0.26	
SciotoRiver	245.033	100-Year	75000	682.31	714.23	697.71	714.86	0.000448	6.45	12519.93	596.05	0.23	
SciotoRiver	245.033	10-Year	36800	682.31	706.91	693.23	707.22	0.00034	4.5	8443.52	495.65	0.19	
SciotoRiver	245.033	50-Year	62100	682.31	712.14	696.4	712.66	0.000413	5.84	11289.72	579.58	0.21	
SciotoRiver	245.033	500-Year	114000	682.31	718.7	701.15	719.72	0.00059	8.24	15319.37	665.62	0.27	
SciotoRiver	245.023	100-Year	75000	681.78	714.21	697.72	714.83	0.000455	6.37	12531.54	638.52	0.23	
SciotoRiver	245.023	10-Year	36800	681.78	706.89	693.25	707.21	0.000346	4.49	8336.61	488.13	0.19	
SciotoRiver	245.023	50-Year	62100	681.78	712.12	696.4	712.63	0.000423	5.8	11218.51	615.59	0.21	
SciotoRiver	245.023	500-Year	114000	681.78	718.69	701.16	719.68	0.000588	8.09	15547.17	721.61	0.26	

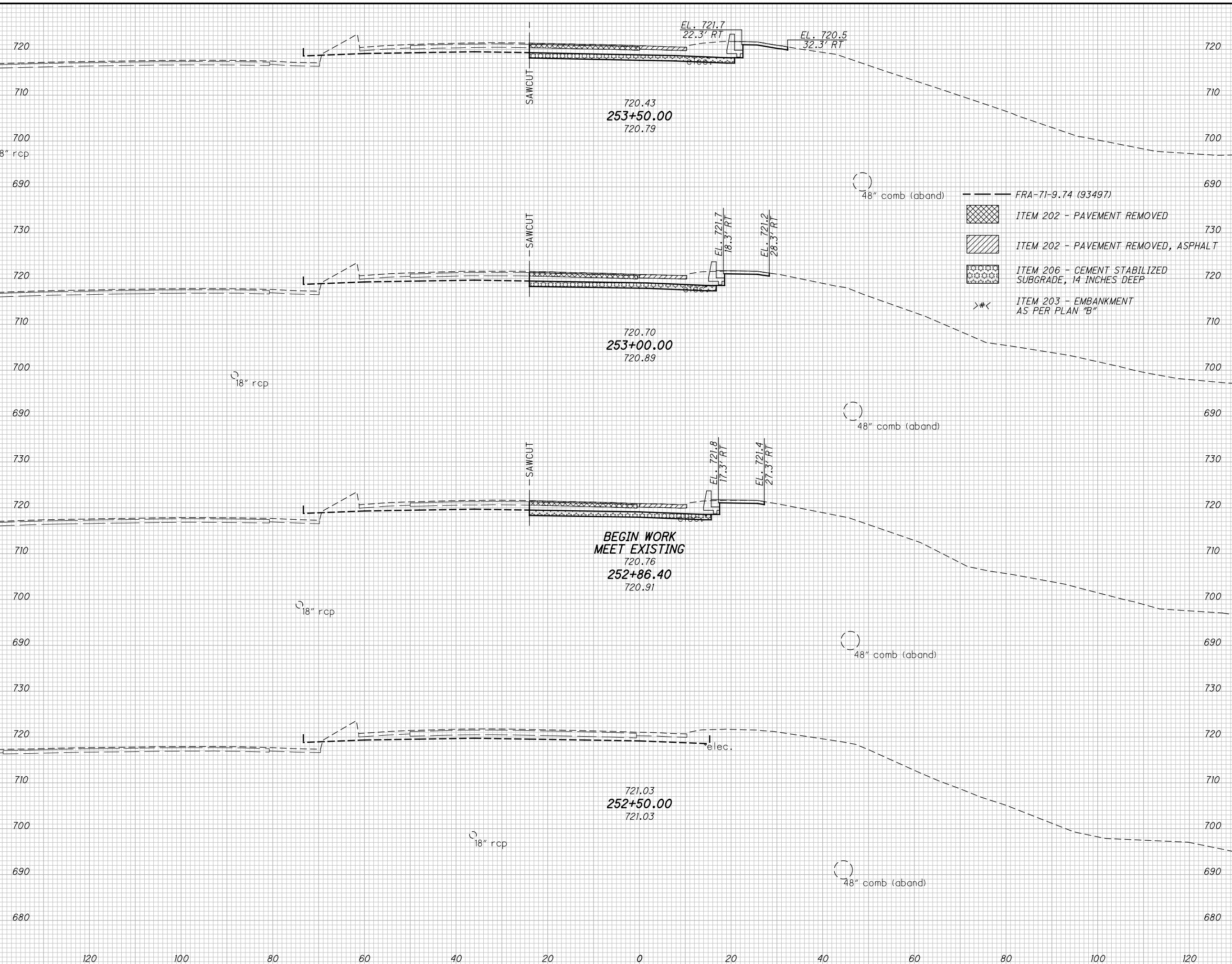
APPENDIX B

SELECT PROJECT PLANS



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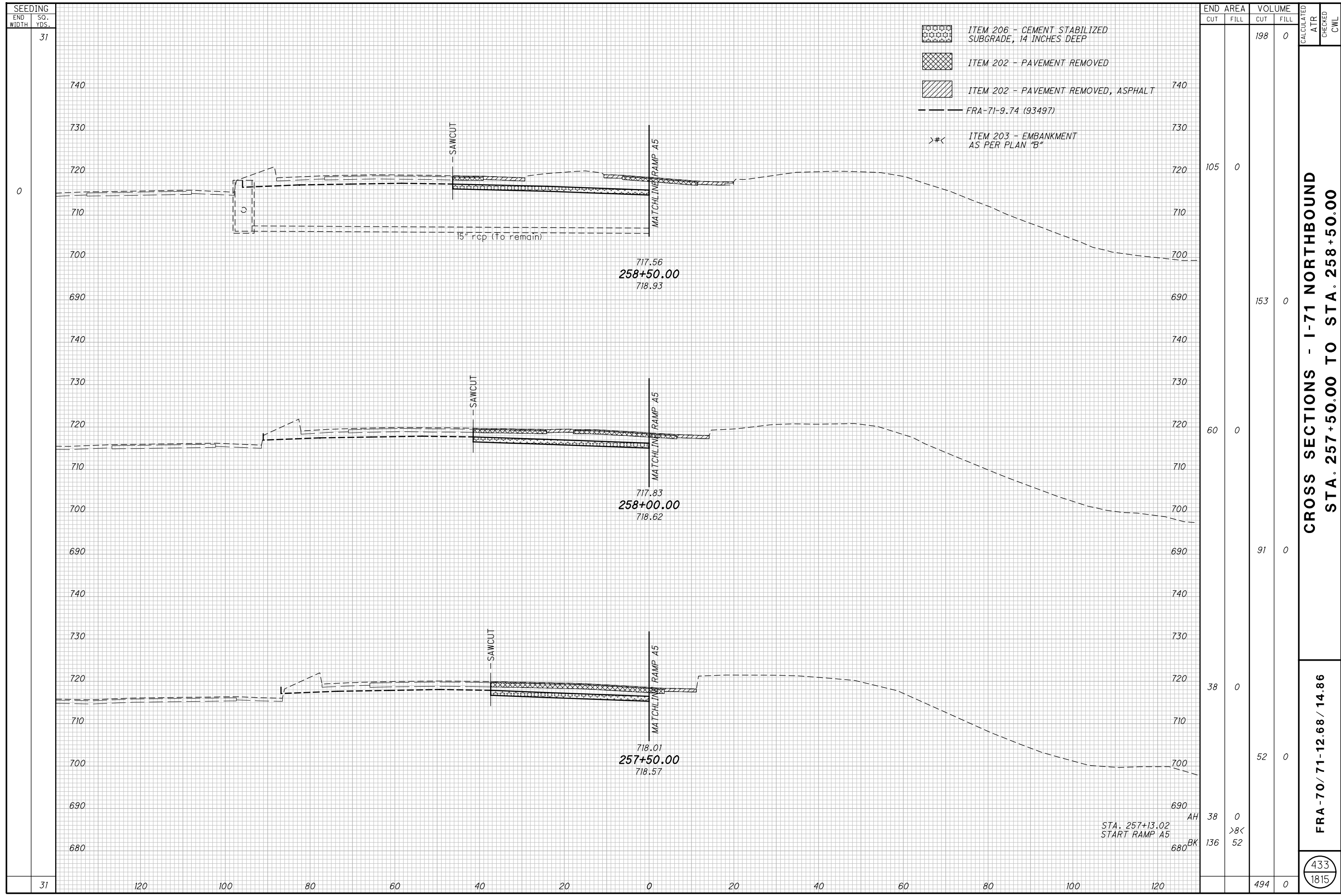
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100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	






END	AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
720			170	>K		
710	83	>3<				
700						
690						
730			138	>6<		
720	66	>3<				
710						
700			32	>K		
690						
730						
720	61	>3<				
710						
700						
690						
730						
720						
710						
700						
690						
730						
720						
710						
700						
690						
680						
			340	>14<		

CROSS SECTIONS - I-71 NORTHBOUND
STA. 252+50.00 TO STA. 253+50.00
FRA-70/71-12.68/14.86
430
1815

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-  ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
-  ITEM 202 - PAVEMENT REMOVED
-  ITEM 202 - PAVEMENT REMOVED, ASPHALT
- FRA-71-9.74 (93497)
- >#< ITEM 203 - EMBANKMENT AS PER PLAN "B"

SEEDING	END AREA		VOLUME		CALCULATED	CHECKED									
	END WIDTH	SO. YDS.	CUT	FILL			ATR	CWL							
31			198	0											
	105	0													
	153	0													
	60	0													
	91	0													
	38	0													
	52	0													
	38	0													
	136	52													
31	120	100	80	60	40	20	0	20	40	60	80	100	120	494	0

CROSS SECTIONS - I-71 NORTHBOUND
STA. 257+50.00 TO STA. 258+50.00
FRA-70/71-12.68/14.86
433
1815

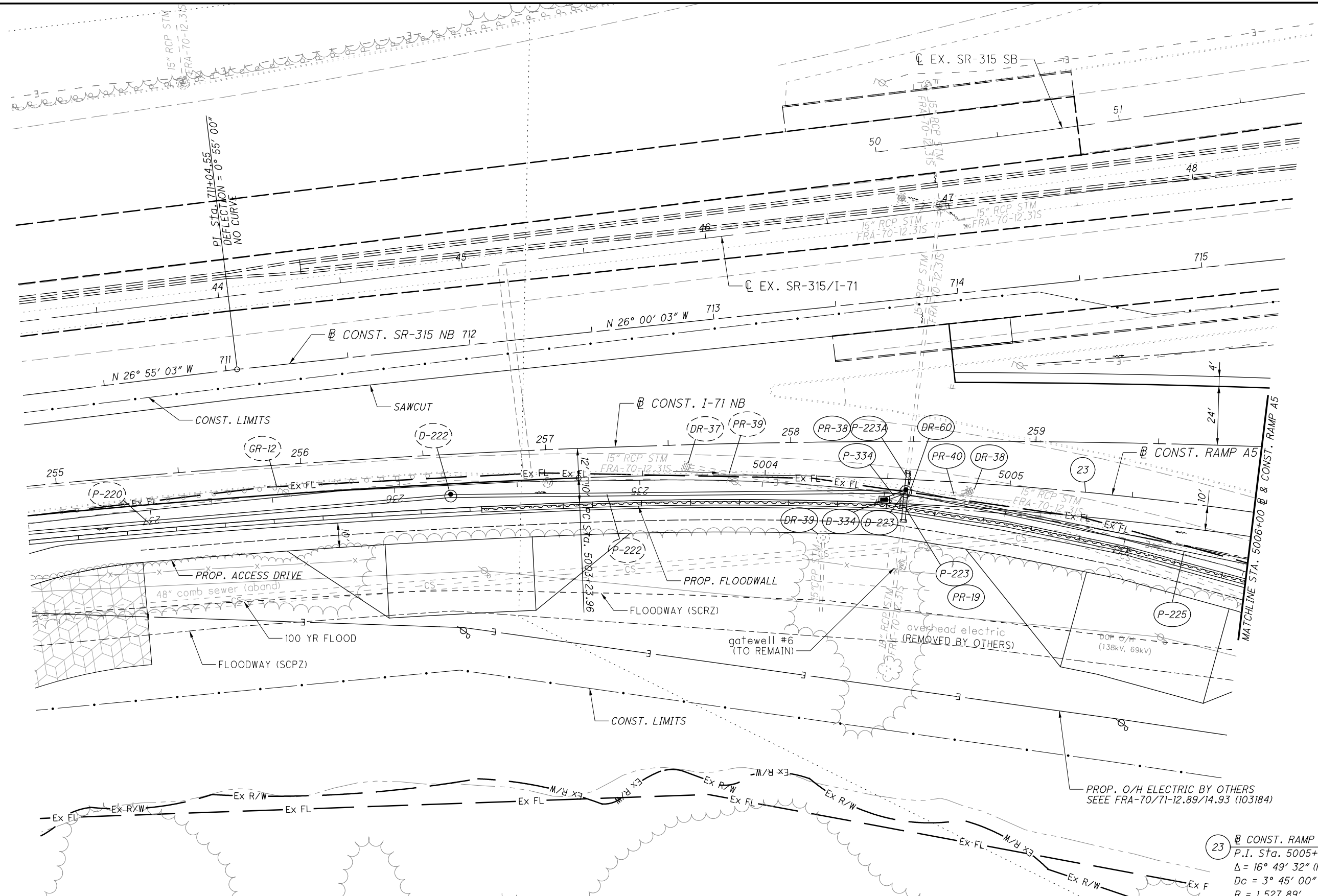


CALCULATED
CHECKED

**PLAN - RAMP A5
BEGIN TO STA. 5006+00.00**

FRA-70/71-12.68/14.86

316
1815



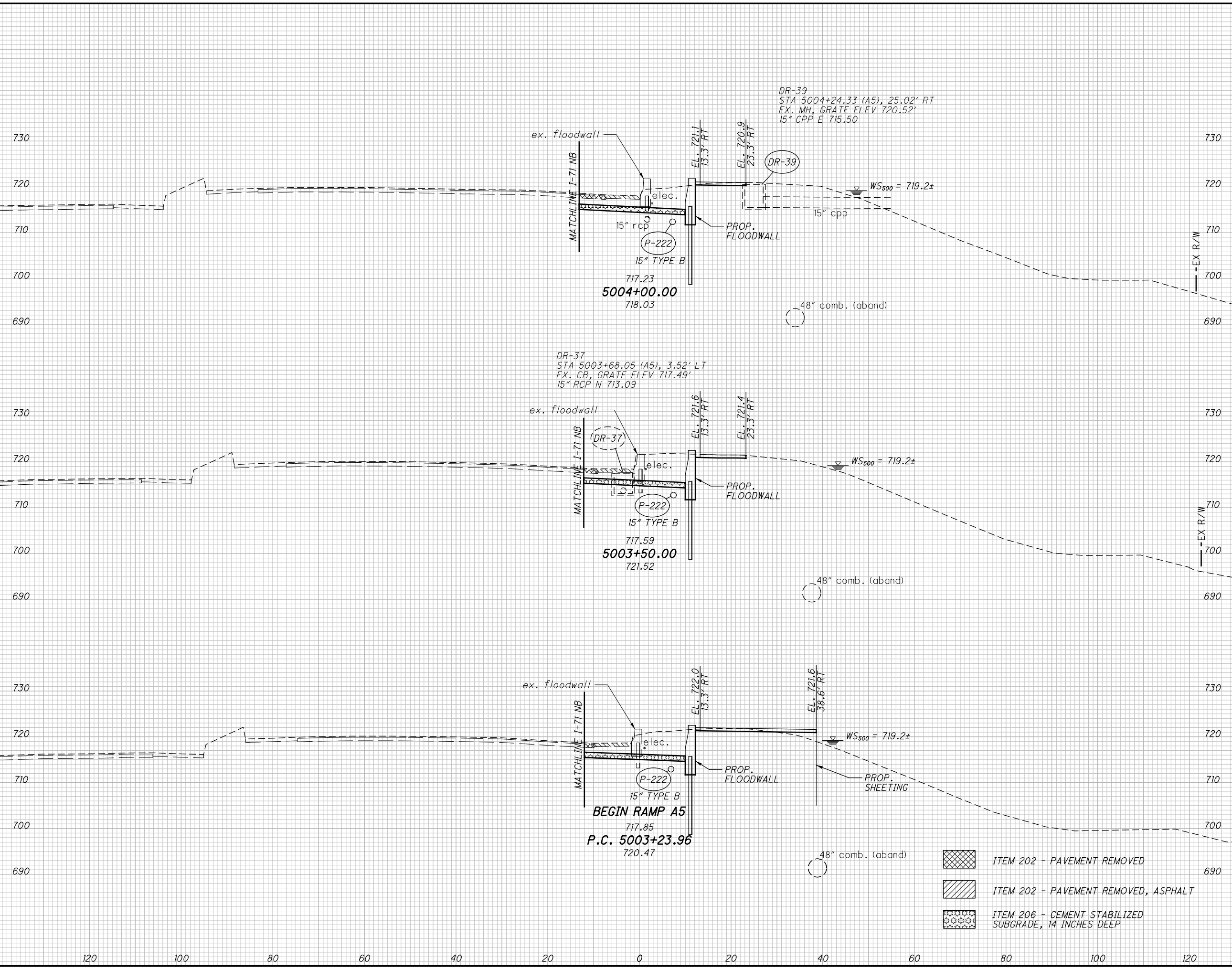
23 **CONST. RAMP A5**
 P.I. Sta. 5005+49.93
 $\Delta = 16^\circ 49' 32''$ (RT)
 $D_c = 3^\circ 45' 00''$
 $R = 1,527.89'$
 $T = 225.97'$
 $L = 448.68'$
 $E = 16.62'$
 $C = 447.07'$
 $C.B. = N 13^\circ 48' 54'' W$
 $e_{max} = 0.050$
 P.C. Sta. 5003+23.96
 P.T. Sta. 5007+72.64
 $D.S. = 50$ MPH

FOR FLOODWALL DETAILS, SEE SHEETS 692-697
 FOR RAMP A5 PROFILE, SEE SHEET 317
 FOR I-71 NB PLANS, SEE SHEETS 304-297
 FOR GORE DETAILS, SEE SHEETS 560-570
 FOR PIPE PROFILES, SEE SHEETS 317, 446
 FOR ITS PLANS, SEE SHEETS 1127-1156
 FOR LIGHTING PLANS, SEE SHEETS 1163-1205
 FOR UNDERDRAIN DETAILS, SEE SHEETS 677-680
 FOR UTILITY LEGEND, SEE SHEET 3
 FRA-71-9.74 (93497)

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SEEDING	
END WIDTH	SO. YDS.
120	
100	
80	
60	
40	
20	
0	
20	
40	
60	
80	
100	
120	



END AREA	VOLUME	CALCULATED	CHECKED		
				CUT	FILL
87	0				
183	0				
103	3				
102	7				
439	4				

- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP

CROSS SECTIONS - RAMP A5
STA. 5003+23.96 TO STA. 5004+00.00
FRA - 70 / 71 - 12.68 / 14.86
445
1815

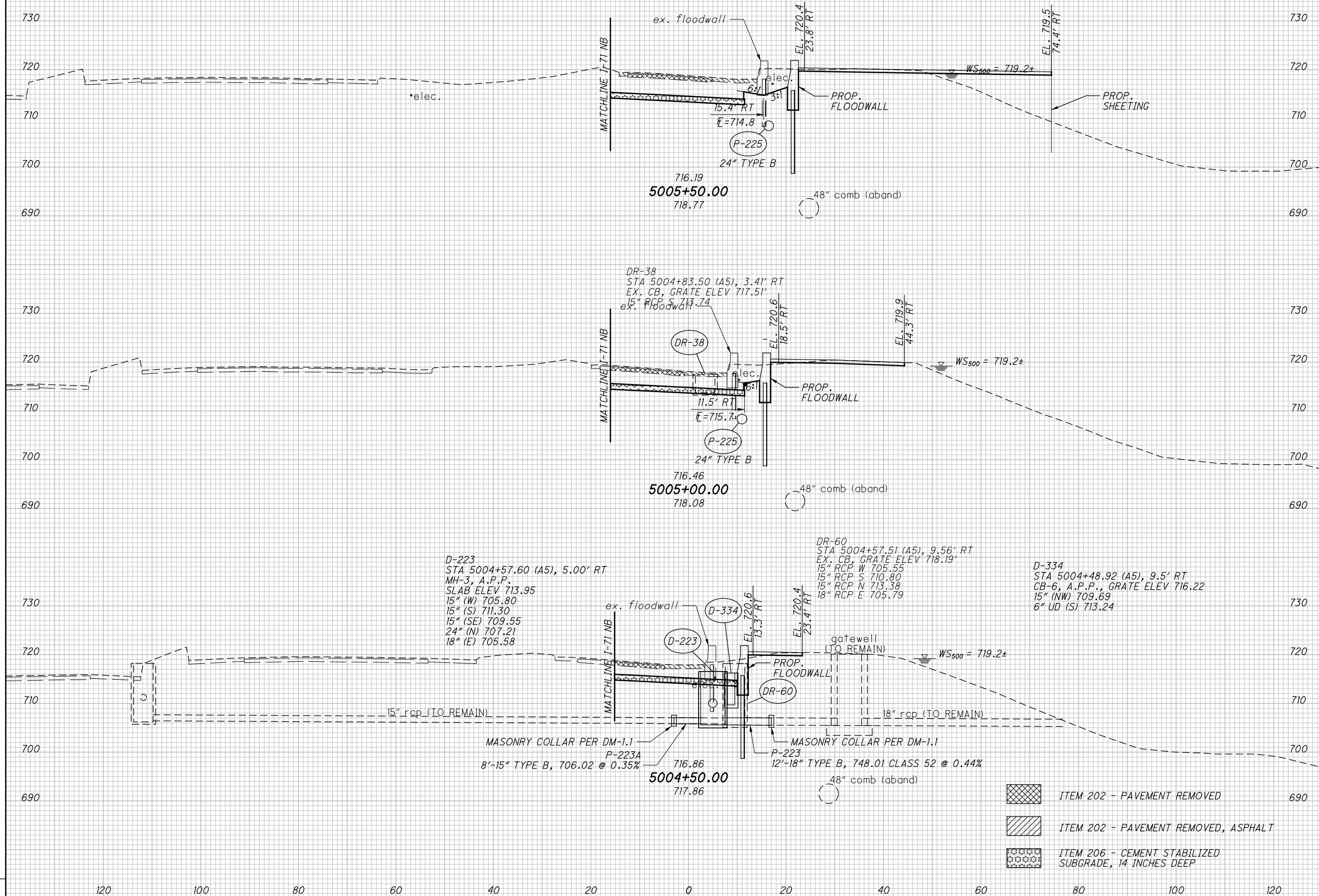
SEEDING	
END WIDTH	SO. YDS.
81	
11	
44	
5	
14	
0	
139	

END AREA		VOLUME		CALCULATED ATR	CHECKED CWL
CUT	FILL	CUT	FILL		
		339	206		
160	117				
258	109				
119	1				
182	2				
78	1				
		779	317		

**CROSS SECTIONS - RAMP A5
STA. 5004+50.00 TO STA. 5005+50.00**

FRA - 70 / 71 - 12.68 / 14.86

446
1815

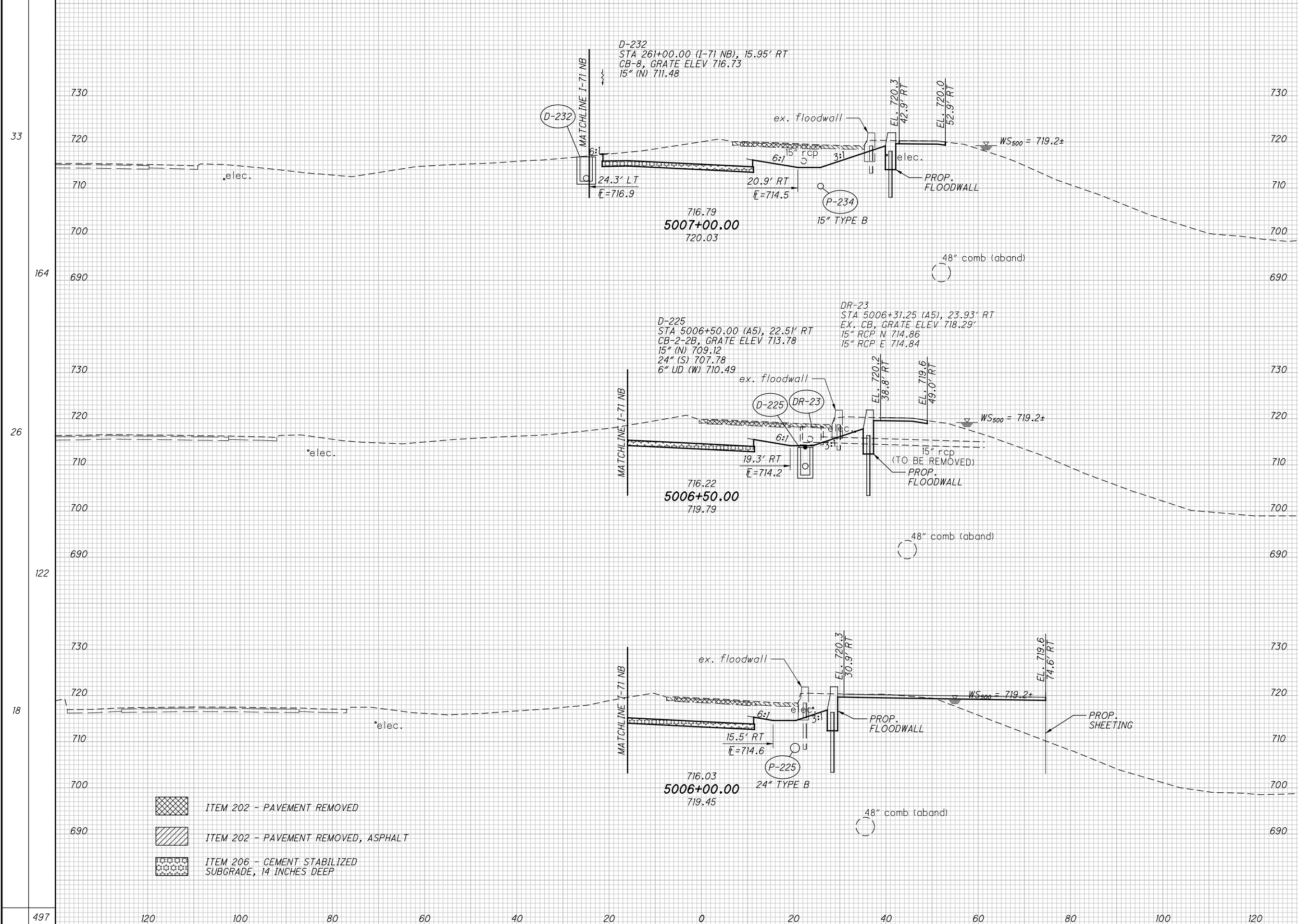


- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP

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SEEDING	
END WIDTH	SO. YDS.
33	211
26	
18	
497	

END AREA		VOLUME		CALCULATED		
CUT	FILL	CUT	FILL	ATR	CHECKED	CWL
		334	12			
		426	0			
		410	97			
		1170	109			



- ITEM 202 - PAVEMENT REMOVED
- ITEM 202 - PAVEMENT REMOVED, ASPHALT
- ITEM 206 - CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP

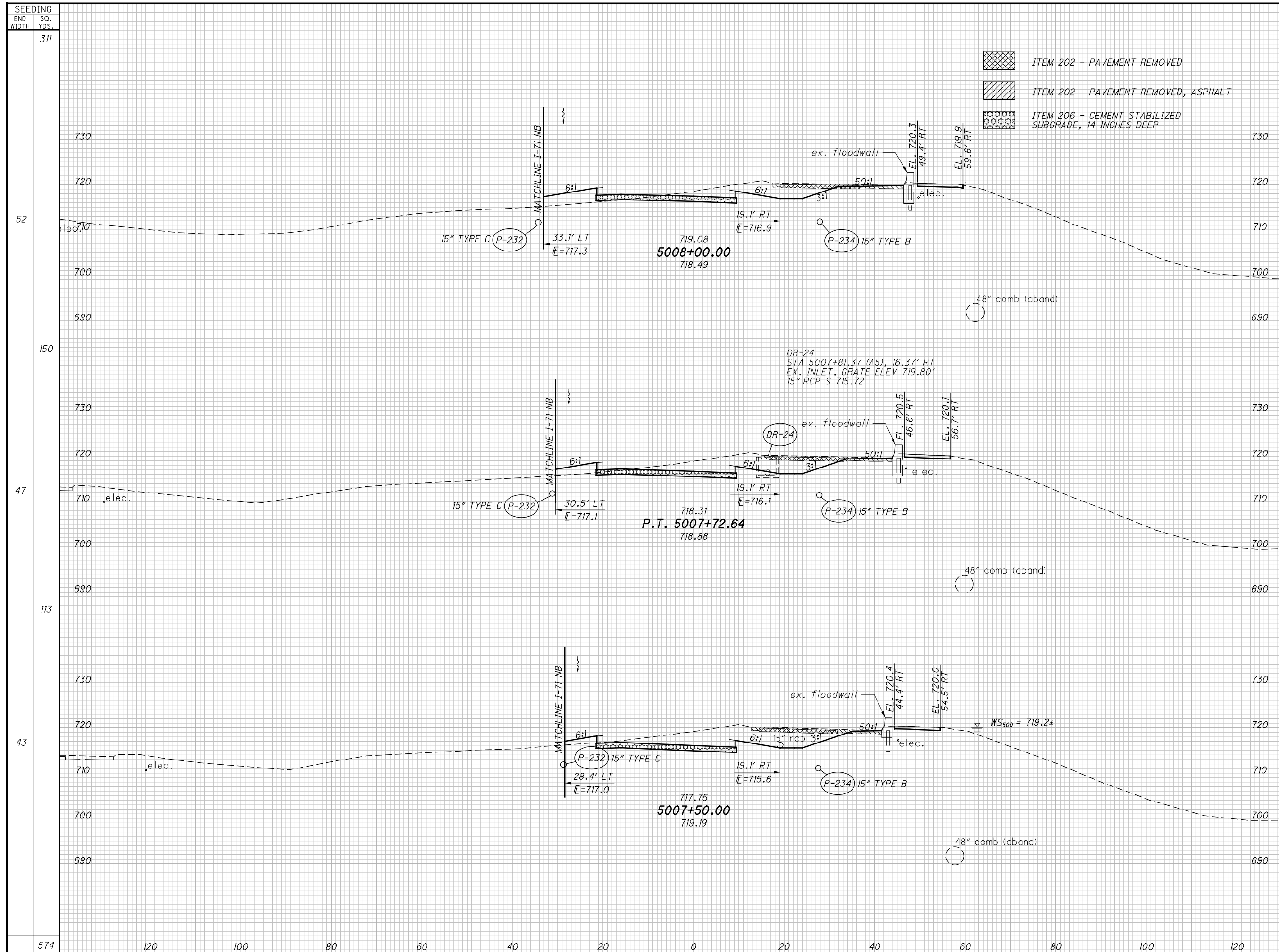
**CROSS SECTIONS - RAMP A5
STA. 5006+00.00 TO STA. 5007+00.00**

FRA - 70 / 71 - 12.68 / 14.86

447
1815

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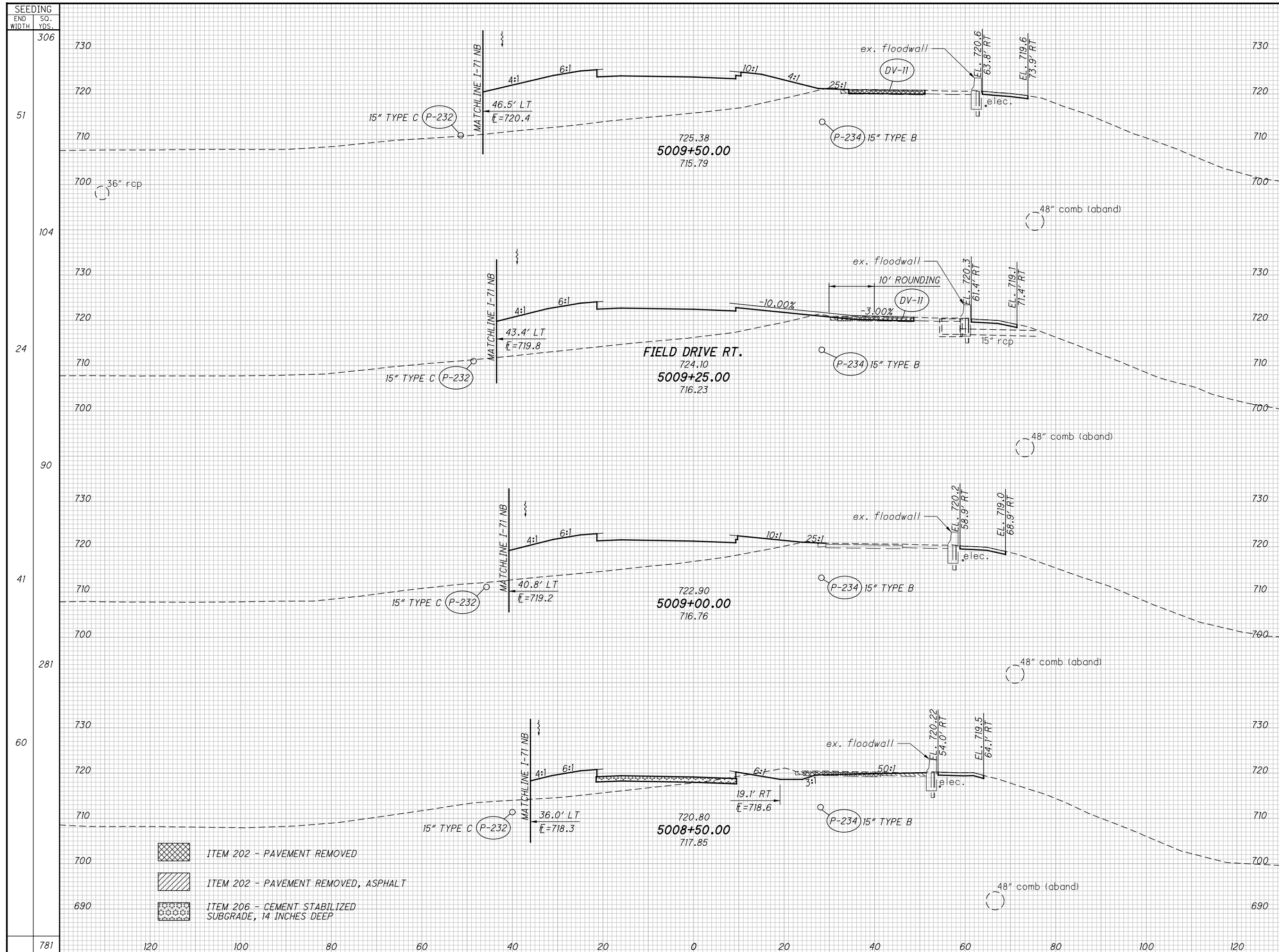
SEEDING	END AREA		VOLUME		CALCULATED	CHECKED
	CUT	FILL	CUT	FILL		
311			91	186		
52	73	52				
150			91	40		
47	106	26				
113			102	16		
43	137	13				
574			284	242		

CROSS SECTIONS - RAMP A5
STA. 5007+50.00 TO STA. 5008+00.00

FRA - 70 / 71 - 12.68 / 14.86

448
1815

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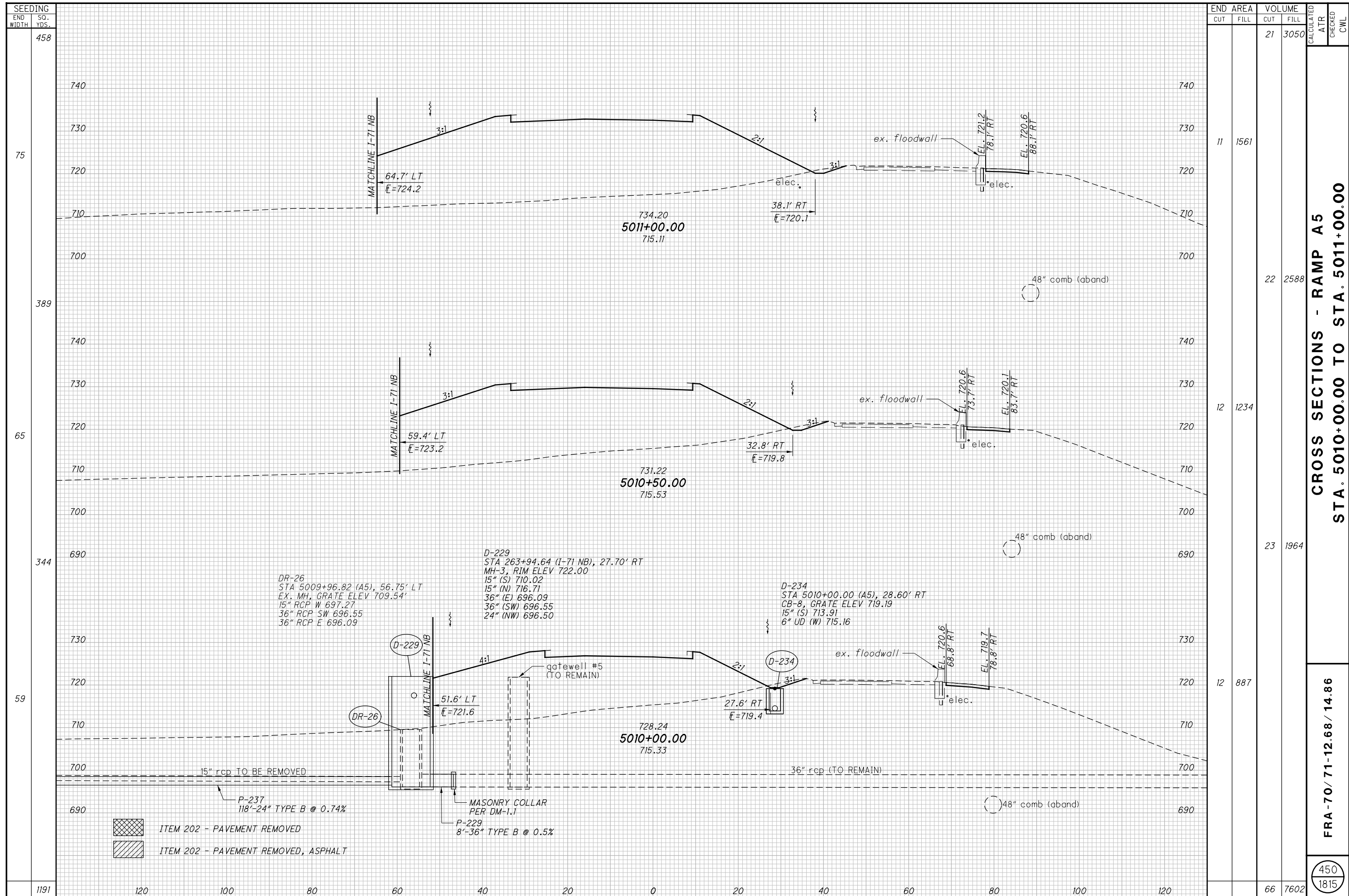


END AREA	VOLUME	CALCULATED	CHECKED				
				CUT	FILL	CUT	FILL
7	624	18	1399				
7	506						
8	468						
7	376						
7	344						
30	456						
25	148						
62	2737	449	1815				

**CROSS SECTIONS - RAMP A5
 STA. 5008+50.00 TO STA. 5009+50.00**

FRA-70/71-12.68/14.86

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APPENDIX C


NO-RISE CERTIFICATION



No-Rise Certification Form

This is to certify that I am a qualified licensed professional engineer in the State of Ohio. It is to further certify that the attached analysis supports the fact that the proposed Roadway project: I-70/I-71 WEST INTERCHANGE BRIDGE REPLACEMENTS OVER SCIOTO RIVER, FRA-70-12.68 (PID # 77372), Project 4A & FRA-70-13.10, (PID # 89464), Project 6A in the floodway will not increase the Base Flood Elevation (100-year flood), floodway elevation, or floodway widths on The Scioto River at published sections in the Flood Insurance Study for Franklin County dated June 16, 2011 and will not increase the Base Flood Elevations (100-year flood), floodway elevations, or floodway widths at unpublished cross-sections in the vicinity of the proposed roadway project.

Engineer's Name: R. Tony Burgoyne, PE

Signature:  Date: 01/30/2019

Phone Number: 330-572-2100 E-MAIL: tburgoyne@gpdgroup.com

Agency/Firm: GPD Group

Address: 520 S. Main Street, Suite 2531

City: Akron State: OH Zip Code: 44311

