Curve Number Backup

Harmor ove Village
Pre-Pro, urve Number

J-16412W
4-23-2012

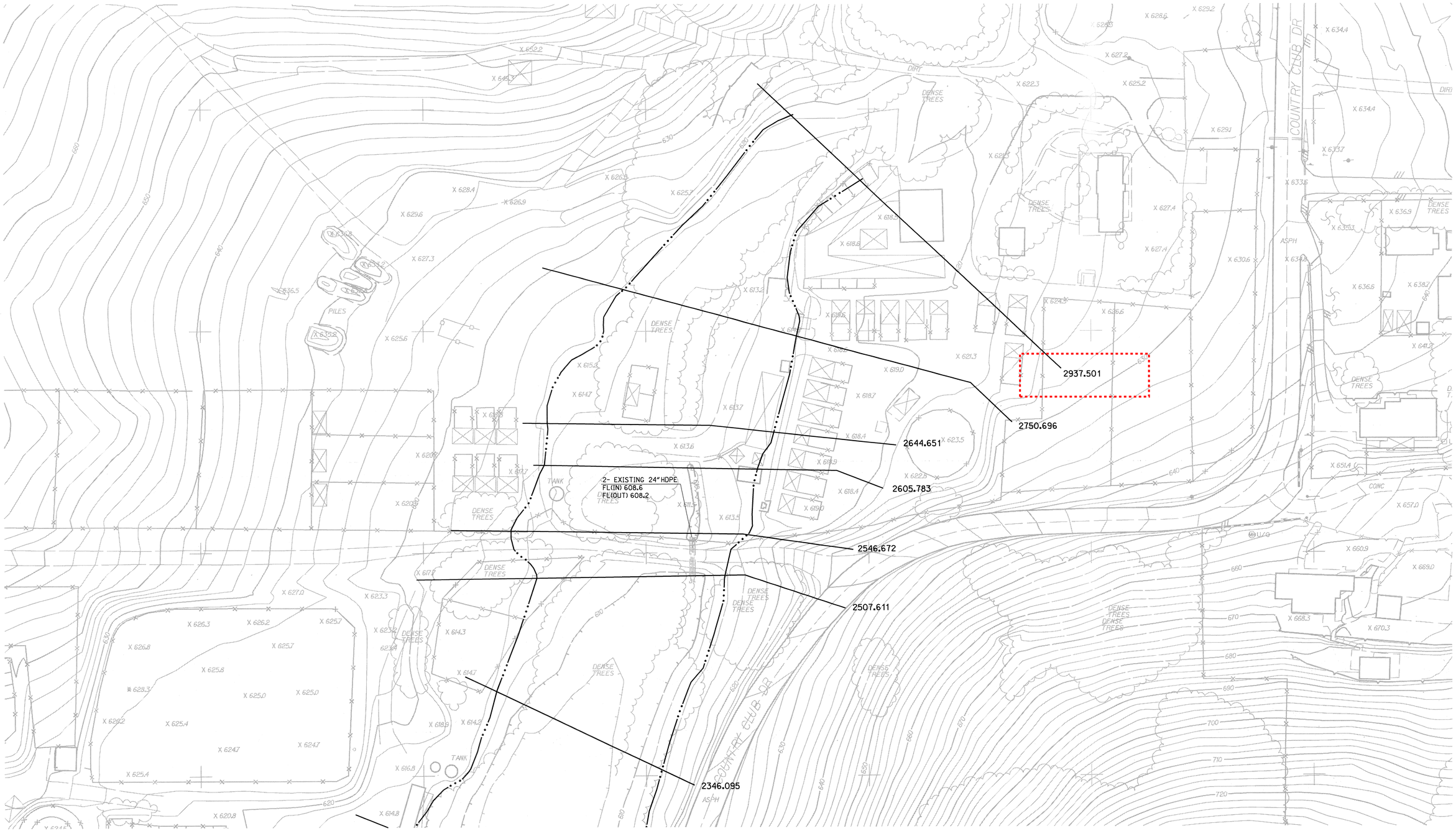
Watershed Basin	Hydrologic Soil Group	Hydrologic Land Use	Land Use Description	Area (ac)	Fraction of Watershed Basin Area (Ai/A)	NRCS Curve Number (CN) for PZN = 2.0, Soil B	NRCS Curve Number (CN) for PZN = 2.0, Soil C	NRCS Curve Number (CN) for PZN = 2.0, Soil D	Practical CN (CN2)(Ai/A)
1	B	AGR	Pasture or Range Land Fair	0.03	0.0000	69	79	84	0.0029
1	B	AGR	Pasture or Range Land Fair	0.01	0.0000	69	79	84	0.0007
1	B	AGR	Pasture or Range Land Fair	0.98	0.0012	69	79	84	0.0834
1	C	AGR	Pasture or Range Land Fair	2.95	0.0036	69	79	84	0.2870
1	C	AGR	Pasture or Range Land Fair	0.21	0.0003	69	79	84	0.0200
1	C	AGR	Pasture or Range Land Fair	9.66	0.0119	69	79	84	0.9384
1	B	COM	Urban District Com and Bus	4.80	0.0059	92	94	95	0.5434
1	B	COM	Urban District Com and Bus	15.10	0.0186	92	94	95	1.7076
1	B	COM	Urban District Com and Bus	1.72	0.0021	92	94	95	0.1945
1	C	COM	Urban District Com and Bus	0.63	0.0008	92	94	95	0.0733
1	C	COM	Urban District Com and Bus	0.02	0.0000	92	94	95	0.0027
1	C	COM	Urban District Com and Bus	0.12	0.0001	92	94	95	0.0134
1	B	HIG	Residential 1/8 ac or less	0.38	0.0005	85	90	92	0.0400
1	D	HIG	Residential 1/8 ac or less	0.02	0.0000	85	90	92	0.0021
1	D	HIG	Residential 1/8 ac or less	0.05	0.0001	85	90	92	0.0054
1	B	LIG	Urban District Industrial	0.29	0.0004	88	91	93	0.0314
1	B	LIG	Urban District Industrial	30.50	0.0375	88	91	93	3.3000
1	C	LIG	Urban District Industrial	3.55	0.0044	88	91	93	0.3972
1	D	LIG	Urban District Industrial	8.47	0.0104	88	91	93	0.9679
1	B	LOW	Residential 1 ac	41.78	0.0514	68	79	84	3.4931
1	B	LOW	Residential 1 ac	14.69	0.0181	68	79	84	1.2283
1	B	LOW	Residential 1 ac	6.80	0.0084	68	79	84	0.5682
1	B	LOW	Residential 1 ac	36.60	0.0450	68	79	84	3.0594
1	B	LOW	Residential 1 ac	8.94	0.0110	68	79	84	0.7471
1	B	LOW	Residential 1 ac	18.79	0.0231	68	79	84	1.5710
1	B	LOW	Residential 1 ac	17.16	0.0211	68	79	84	1.4345
1	B	LOW	Residential 1 ac	13.45	0.0165	68	79	84	1.1246
1	B	LOW	Residential 1 ac	3.84	0.0047	68	79	84	0.3209
1	B	LOW	Residential 1 ac	90.62	0.1114	68	79	84	7.5754
1	C	LOW	Residential 1 ac	12.72	0.0156	68	79	84	1.2351
1	C	LOW	Residential 1 ac	8.35	0.0103	68	79	84	0.8107
1	C	LOW	Residential 1 ac	39.63	0.0487	68	79	84	3.8489
1	C	LOW	Residential 1 ac	14.05	0.0173	68	79	84	1.3644
1	C	LOW	Residential 1 ac	72.49	0.0891	68	79	84	7.0401
1	C	LOW	Residential 1 ac	0.24	0.0003	68	79	84	0.0238
1	C	LOW	Residential 1 ac	1.55	0.0019	68	79	84	0.1505
1	C	LOW	Residential 1 ac	50.86	0.0625	68	79	84	4.9392
1	D	LOW	Residential 1 ac	2.72	0.0033	68	79	84	0.2807
1	D	LOW	Residential 1 ac	0.11	0.0001	68	79	84	0.0114
1	D	LOW	Residential 1 ac	13.88	0.0171	68	79	84	1.4338
1	D	LOW	Residential 1 ac	30.07	0.0370	68	79	84	3.1048
1	D	LOW	Residential 1 ac	6.15	0.0076	68	79	84	0.6353
1	D	LOW	Residential 1 ac	42.44	0.0522	68	79	84	4.3827
1	D	LOW	Residential 1 ac	73.93	0.0909	68	79	84	7.6347
1	D	LOW	Residential 1 ac	0.30	0.0004	68	79	84	0.0307
1	B	MED	Residential 1/4 ac	1.28	0.0016	75	83	87	0.1181
1	B	MED	Residential 1/4 ac	0.08	0.0001	75	83	87	0.0074
1	B	MED	Residential 1/4 ac	55.69	0.0685	75	83	87	5.1347
1	C	MED	Residential 1/4 ac	16.37	0.0201	75	83	87	1.6706
1	D	MED	Residential 1/4 ac	0.48	0.0006	75	83	87	0.0511
1	D	MED	Residential 1/4 ac	0.02	0.0000	75	83	87	0.0026

Watershed Basin	Hydrologic Land Use	Hydrologic Soil Group	Land Use Description	Area (ac)	Fraction of Watershed Basin Area (Ai/A)	NRCS Curve Number (CN) for PZN = 2.0, Soil B	NRCS Curve Number (CN) for PZN = 2.0, Soil C	NRCS Curve Number (CN) for PZN = 2.0, Soil D	Practical CN (CN2)(Ai/A)
1	COM	B	Urban District Com and Bus	4.8042	0.0058	92	94	95	0.5294
1	COM	B	Urban District Com and Bus	15.0974	0.0181	92	94	95	1.6638
1	COM	B	Urban District Com and Bus	1.7196	0.0021	92	94	95	0.1895
1	COM	C	Urban District Com and Bus	0.6339	0.0008	92	94	95	0.0714
1	COM	C	Urban District Com and Bus	0.0238	0.0000	92	94	95	0.0027
1	COM	C	Urban District Com and Bus	0.1162	0.0001	92	94	95	0.0131
1	Grove Country House	C	refer to attached table	0.0409	0.0000	85	89	92	0.0044
1	HIG	B	Residential 1/8 ac or less	0.3824	0.0005	85	90	92	0.0389
1	HIG	D	Residential 1/8 ac or less	0.0183	0.0000	85	90	92	0.0020
1	HIG	D	Residential 1/8 ac or less	0.0473	0.0001	85	90	92	0.0052
1	Hillside Farm House	C	refer to attached table	0.0004	0.0000	85	89	92	0.0000
1	Hillside Farm House	C	refer to attached table	0.2759	0.0003	85	89	92	0.0294
1	Hillside Farm House	C	refer to attached table	0.0038	0.0000	85	89	92	0.0004
1	Hillside Farm House	D	refer to attached table	0.5025	0.0006	85	89	92	0.0554
1	Hillside Farm House	D	refer to attached table	0.1361	0.0002	85	89	92	0.0150
1	Landscaped	B	Open Space Fair	0.0316	0.0000	69	79	84	0.0026
1	Landscaped	B	Open Space Fair	0.0076	0.0000	69	79	84	0.0006
1	Landscaped	B	Open Space Fair	0.1134	0.0001	69	79	84	0.0094
1	Landscaped	C	Open Space Fair	2.9323	0.0035	69	79	84	0.2775
1	Landscaped	C	Open Space Fair	0.0104	0.0000	69	79	84	0.0010
1	Landscaped	C	Open Space Fair	0.1751	0.0002	69	79	84	0.0166
1	Landscaped	C	Open Space Fair	0.0157	0.0000	69	79	84	0.0015
1	Landscaped	C	Open Space Fair	3.5757	0.0043	69	79	84	0.3384
1	Landscaped	C	Open Space Fair	0.8010	0.0010	69	79	84	0.0758
1	Landscaped	D	Open Space Fair	0.3866	0.0005	69	79	84	0.0389
1	Landscaped	D	Open Space Fair	1.7080	0.0020	69	79	84	0.1719
1	Landscaped	D	Open Space Fair	0.9615	0.0012	69	79	84	0.0967
1	LIG	B	Urban District Industrial	0.2903	0.0003	88	91	93	0.0306
1	LIG	B	Urban District Industrial	30.5037	0.0365	88	91	93	3.2154
1	LIG	C	Urban District Industrial	3.5501	0.0043	88	91	93	0.3870
1	LIG	D	Urban District Industrial	8.4661	0.0101	88	91	93	0.9431
1	LOW	B	Residential 1 ac	41.7841	0.0501	68	79	84	3.4034
1	LOW	B	Residential 1 ac	14.6930	0.0176	68	79	84	1.1968
1	LOW	B	Residential 1 ac	6.7938	0.0081	68	79	84	0.5534
1	LOW	B	Residential 1 ac	36.5962	0.0438	68	79	84	2.9809
1	LOW	B	Residential 1 ac	8.9370	0.0107	68	79	84	0.7279
1	LOW	B	Residential 1 ac	18.7914	0.0225	68	79	84	1.5306
1	LOW	B	Residential 1 ac	17.1597	0.0206	68	79	84	1.3977
1	LOW	B	Residential 1 ac	13.4529	0.0161	68	79	84	1.0958
1	LOW	B	Residential 1 ac	3.8390	0.0046	68	79	84	0.3127
1	LOW	B	Residential 1 ac	90.6176	0.1085	68	79	84	7.3811
1	LOW	C	Residential 1 ac	12.7169	0.0152	68	79	84	1.2034
1	LOW	C	Residential 1 ac	8.3144	0.0100	68	79	84	0.7868
1	LOW	C	Residential 1 ac	38.9817	0.0467	68	79	84	3.6888
1	LOW	C	Residential 1 ac	15.3705	0.0184	68	79	84	1.4545
1	LOW	C	Residential 1 ac	72.3237	0.0866	68	79	84	6.8440
1	LOW	C	Residential 1 ac	0.2446	0.0003	68	79	84	0.0231
1	LOW	C	Residential 1 ac	1.5999	0.0019	68	79	84	0.1514
1	LOW	C	Residential 1 ac	50.8559	0.0609	68	79	84	4.8125

1	D	MED	Residential 1/4 ac	0.04	0.0001	75	83	87	0.0045
1	D	MED	Residential 1/4 ac	7.38	0.0091	75	83	87	0.7894
1	D	OPE	Open Brush Fair	1.42	0.0017	66	77	83	0.1445
1	B	OTH	Narrowleaf Chaparral Fair	1.20	0.0015	72	81	86	0.1061
1	C	OTH	Narrowleaf Chaparral Fair	2.77	0.0034	72	81	86	0.2761
1	C	OTH	Narrowleaf Chaparral Fair	0.08	0.0001	72	81	86	0.0079
1	B	Road	Road	1.71	0.0021	98	98	98	0.2057
1	B	Road	Road	0.00	0.0000	98	98	98	0.0004
1	B	Road	Road	0.47	0.0006	98	98	98	0.0571
1	B	Road	Road	0.04	0.0001	98	98	98	0.0051
1	B	Road	Road	14.43	0.0177	98	98	98	1.7386
1	C	Road	Road	0.11	0.0001	98	98	98	0.0137
1	C	Road	Road	2.08	0.0026	98	98	98	0.2502
1	D	Road	Road	4.12	0.0051	98	98	98	0.4958
1	B	VAC	Annual Grass Dryland Pasture Poor	0.01	0.0000	78	86	89	0.0006
1	C	VAC	Annual Grass Dryland Pasture Poor	0.04	0.0000	78	86	89	0.0041
1	C	VAC	Annual Grass Dryland Pasture Poor	0.56	0.0007	78	86	89	0.0587
1	C	VAC	Annual Grass Dryland Pasture Poor	1.36	0.0017	78	86	89	0.1436
1	C	VAC	Annual Grass Dryland Pasture Poor	0.03	0.0000	78	86	89	0.0029
1	C	VAC	Annual Grass Dryland Pasture Poor	0.01	0.0000	78	86	89	0.0007
1	D	VAC	Annual Grass Dryland Pasture Poor	0.00	0.0000	78	86	89	0.0000
1	D	VAC	Annual Grass Dryland Pasture Poor	0.00	0.0000	78	86	89	0.0001
			Total Area	**813.42**	***1.271***				
				acres	***sq mi***				

78 PZN 2.0
79 PZN Condition 2,10-year
85 PZN Condition 100-year

1	LOW	D	Residential 1 ac	2.7178	0.0033	68	79	84	0.2735
1	LOW	D	Residential 1 ac	0.1107	0.0001	68	79	84	0.0111
1	LOW	D	Residential 1 ac	14.1137	0.0169	68	79	84	1.4201
1	LOW	D	Residential 1 ac	30.0653	0.0360	68	79	84	3.0251
1	LOW	D	Residential 1 ac	6.1522	0.0074	68	79	84	0.6190
1	LOW	D	Residential 1 ac	42.4404	0.0508	68	79	84	4.2703
1	LOW	D	Residential 1 ac	73.9309	0.0886	68	79	84	7.4388
1	LOW	D	Residential 1 ac	0.2969	0.0004	68	79	84	0.0299
1	MED	B	Residential 1/4 ac	1.2813	0.0015	75	83	87	0.1151
1	MED	B	Residential 1/4 ac	0.0798	0.0001	75	83	87	0.0072
1	MED	B	Residential 1/4 ac	55.6891	0.0667	75	83	87	5.0030
1	MED	C	Residential 1/4 ac	16.3726	0.0196	75	83	87	1.6278
1	MED	D	Residential 1/4 ac	0.4779	0.0006	75	83	87	0.0498
1	MED	D	Residential 1/4 ac	0.0248	0.0000	75	83	87	0.0026
1	MED	D	Residential 1/4 ac	0.0418	0.0001	75	83	87	0.0044
1	MED	D	Residential 1/4 ac	7.3804	0.0088	75	83	87	0.7691
1	OPE	D	Open Brush Fair	1.4159	0.0017	66	77	83	0.1408
1	OTH	B	Narrowleaf Chaparral Fair	1.1982	0.0014	72	81	86	0.1033
1	OTH	C	Narrowleaf Chaparral Fair	2.7727	0.0033	72	81	86	0.2690
1	OTH	C	Narrowleaf Chaparral Fair	0.0797	0.0001	72	81	86	0.0077
1	Road	B	Road	1.7070	0.0020	98	98	98	0.2004
1	Road	B	Road	0.0037	0.0000	98	98	98	0.0004
1	Road	B	Road	0.4743	0.0006	98	98	98	0.0557
1	Road	B	Road	0.0427	0.0001	98	98	98	0.0050
1	Road	B	Road	14.4303	0.0173	98	98	98	1.6940
1	Road	C	Road	0.0570	0.0001	98	98	98	0.0067
1	Road	C	Road	2.0766	0.0025	98	98	98	0.2438
1	Road	D	Road	4.1150	0.0049	98	98	98	0.4831
1	Road	D	Road	0.0027	0.0000	98	98	98	0.0003
1	Trail	B	Gravel	0.0046	0.0000	85	89	91	0.0005
1	Trail	B	Gravel	0.0078	0.0000	85	89	91	0.0008
1	Trail	C	Gravel	0.0892	0.0001	85	89	91	0.0095
1	Trail	C	Gravel	0.0002	0.0000	85	89	91	0.0000
1	Trail	C	Gravel	0.0326	0.0000	85	89	91	0.0035
1	Trail	C	Gravel	0.0002	0.0000	85	89	91	0.0000
1	Trail	C	Gravel	0.0021	0.0000	85	89	91	0.0002
1	Trail	C	Gravel	0.0298	0.0000	85	89	91	0.0032
1	Trail	D	Gravel	0.0014	0.0000	85	89	91	0.0002
1	Trail	D	Gravel	0.0728	0.0001	85	89	91	0.0079
1	Village Court	D	refer to attached table	0.0045	0.0000	89	92	94	0.0005
1	Village Court	D	refer to attached table	0.0152	0.0000	89	92	94	0.0017
1000B	COM	C	Urban District Com and Bus	1.0285	0.0012	92	94	95	0.1158
1000B	COM	C	Urban District Com and Bus	0.3759	0.0005	92	94	95	0.0423
1000B	Landscaped	B	Open Space Fair	0.1234	0.0001	69	79	84	0.0102
1000B	Landscaped	C	Open Space Fair	0.2831	0.0003	69	79	84	0.0268
1000B	LOW	B	Residential 1 ac	0.0504	0.0001	68	79	84	0.0041
1000B	LOW	B	Residential 1 ac	1.4561	0.0017	68	79	84	0.1186
1000B	LOW	C	Residential 1 ac	8.5514	0.0102	68	79	84	0.8092
1000B	LOW	C	Residential 1 ac	2.8256	0.0034	68	79	84	0.2674
1000B	LOW	C	Residential 1 ac	0.0046	0.0000	68	79	84	0.0004
1000B	Road	B	Road	1.1989	0.0014	98	98	98	0.1407
1000B	Road	B	Road	0.0277	0.0000	98	98	98	0.0033
1000B	Road	C	Road	0.0279	0.0000	98	98	98	0.0033
1000B	Trail	B	Gravel	0.3756	0.0004	85	89	91	0.0382
1000B	Trail	B	Gravel	0.0013	0.0000	85	89	91	0.0001



SEE SHEET NO. 2

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GRAPHIC SCALE 1"= 40'

LEGEND

Existing Floodplain

1234.567 HEC-RAS Cross Section

HARMONY GROVE VILLAGE

HEC-RAS WORKMAP
NORTH DETENTION BASIN

EXISTING CONDITION
SHEET 1 OF 3

RICK ENGINEERING COMPANY
San Diego
5620 FRIARS ROAD
SAN DIEGO, CA 92110
619.291.0707
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rickengineering.com
Riverside - Orange - San Luis Obispo - Bakersfield - Sacramento - Phoenix - Tucson

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SEE SHEET NO. 1

SEE SHEET NO. 3

N

40 20 0 40 80 120

GRAPHIC SCALE 1"= 40'

LEGEND

——·····—— Existing Floodplain

——— 1234.567 HEC-RAS Cross Section

HARMONY GROVE VILLAGE

HEC-RAS WORKMAP NORTH DETENTION BASIN

EXISTING CONDITION
SHEET 2 OF 3

RICK ENGINEERING COMPANY
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SEE SHEET NO. 2

LEGEND

Existing Floodplain

1234.567 HEC-RAS Cross Section

HARMONY GROVE VILLAGE

HEC-RAS WORKMAP NORTH DETENTION BASIN

EXISTING CONDITION
SHEET 3 OF 3

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HEC-RAS
Eden Valley Creek Upper East
Computer Output and Workmaps
Pre-project

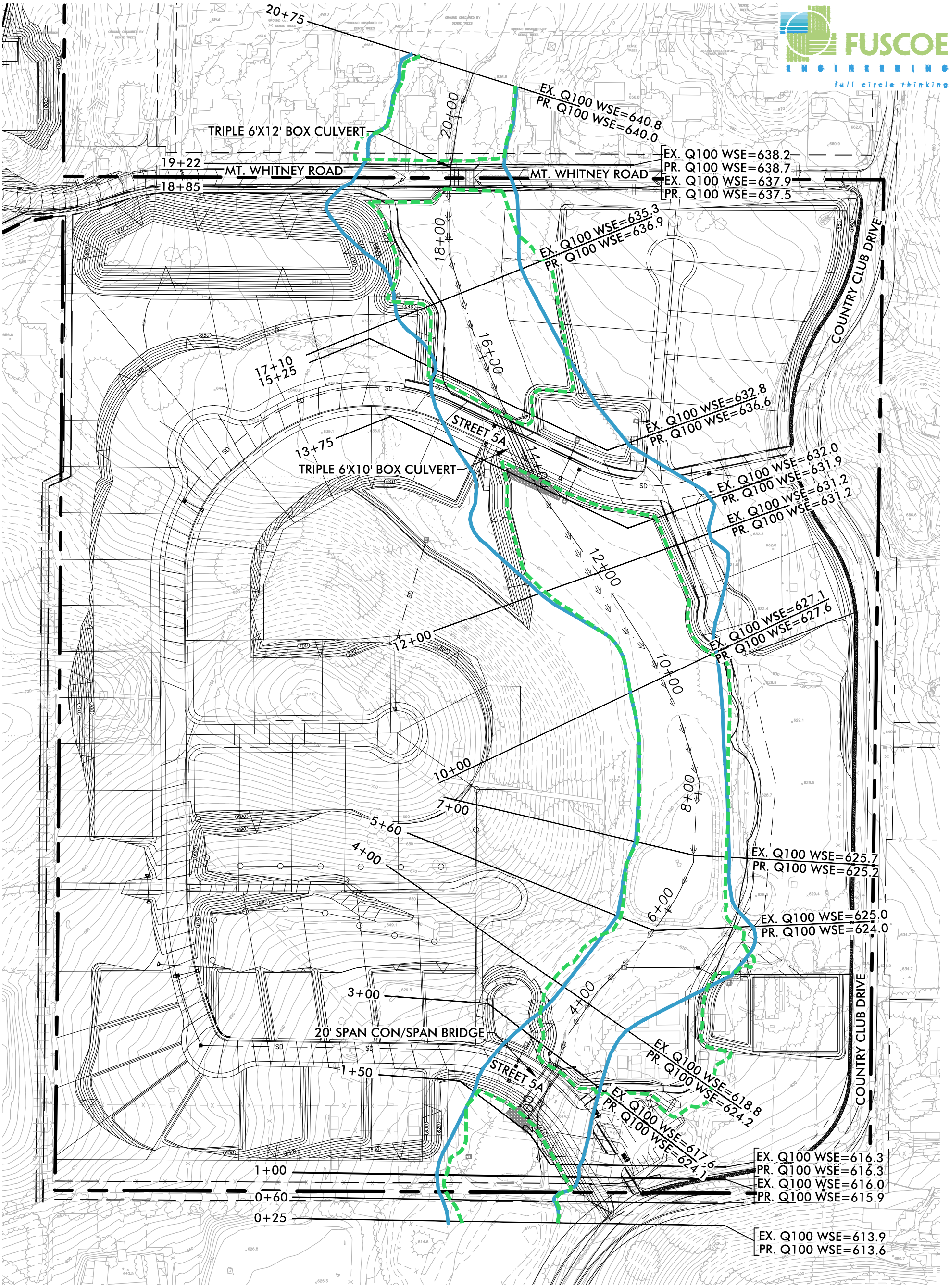
HEC-RAS Plan: Existing River: Harmony Grove Reach: East Profile: 100-yr

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
East	2937.501	100-yr	1636.00	614.21	618.45	618.49	619.68	0.041434	8.91	183.53	79.21	1.02
East	2750.596	100-yr	1636.00	611.59	615.80	614.70	616.10	0.007000	4.51	379.03	161.04	0.44
East	2644.651	100-yr	1636.00	609.97	615.47	614.59	615.69	0.002186	4.14	449.85	209.07	0.38
East	2625.030 Upper Equestrian		Culvert									
East	2605.783	100-yr	1636.00	609.17	615.10		615.29	0.001996	3.60	481.41	198.81	0.35
East	2546.672	100-yr	1636.00	608.52	615.05	613.18	615.17	0.001078	3.05	581.29	210.97	0.27
East	2528.845 Lower Equestrian		Culvert									
East	2507.611	100-yr	1636.00	608.96	613.66		613.88	0.003290	3.90	444.88	173.30	0.37
East	2346.095	100-yr	1636.00	607.36	613.39		613.48	0.001460	2.34	677.02	162.41	0.18
East	2199.354	100-yr	1636.00	606.20	613.27	609.20	613.32	0.000713	1.78	902.11	220.49	0.13
East	2160.188		Culvert									
East	2127.483	100-yr	1636.00	603.76	608.64		609.20	0.009426	6.15	276.52	106.31	0.61
East	2005.148	100-yr	1636.00	601.74	606.04	606.04	607.22	0.027180	10.19	193.44	78.33	1.20
East	1808.173	100-yr	1636.00	599.45	604.21	602.51	604.43	0.004709	3.80	442.33	162.64	0.37
East	1575.429	100-yr	1636.00	596.48	601.76	601.51	602.71	0.011940	7.84	212.21	88.84	0.84
East	1434.583	100-yr	1636.00	595.74	600.34		601.17	0.009566	7.33	223.43	77.94	0.76
East	1219.919	100-yr	1636.00	594.17	599.20	598.95	599.60	0.005001	5.62	357.26	248.22	0.56

HEC-RAS
Eden Valley Creek Upper East
Computer Output and Workmaps
Post-project

HEC-RAS Plan: add 1-24in River: Harmony Grove Reach: East Profile: 100-yr

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
East	2937.501	100-yr	1629.00	614.21	618.43	618.47	619.67	0.041969	8.94	182.19	77.44	1.03
East	2750.696	100-yr	1629.00	611.59	615.79	614.69	616.09	0.006996	4.51	378.00	160.94	0.44
East	2644.651	100-yr	1629.00	609.97	615.46	614.58	615.68	0.002189	4.13	448.38	209.03	0.38
East	2625.030 Upper Equestrian		Culvert									
East	2605.783	100-yr	1629.00	609.17	615.07		615.26	0.002060	3.64	475.05	198.59	0.38
East	2546.672	100-yr	1629.00	608.52	615.01	613.17	615.14	0.001108	3.07	574.20	209.96	0.27
East	2528.845 Lower Equestrian		Culvert									
East	2507.611	100-yr	1629.00	608.98	614.86		614.96	0.001005	2.63	663.28	186.63	0.21
East	2346.095	100-yr	1629.00	607.36	614.74		614.81	0.000789	2.01	774.17	144.79	0.14
East	2199.354	100-yr	1629.00	606.20	614.67	609.19	614.72	0.000421	1.56	966.34	151.40	0.10
East	2160.188		Culvert									
East	2127.463	100-yr	1629.00	606.00	614.46		614.54	0.003805	2.32	753.76	129.86	0.15
East	2005.148	100-yr	1629.00	605.40	614.41		614.42	0.000283	0.72	2345.86	284.04	0.04
East	1808.173	100-yr	1383.00	604.60	614.31	606.74	614.33	0.000760	1.20	1219.22	151.43	0.07



LEGEND

CHANNEL FLOW LINE

100 YEAR STORM INUNDATION LIMITS (EXISTING CHANNEL, N=0.10)

100 YEAR STORM INUNDATION LIMITS (PROPOSED CHANNEL, N = 0.08)

VALIANO NEIGHBORHOOD 5
100-YEAR STORM INUNDATION EXHIBIT
SCALE: 1"=150'

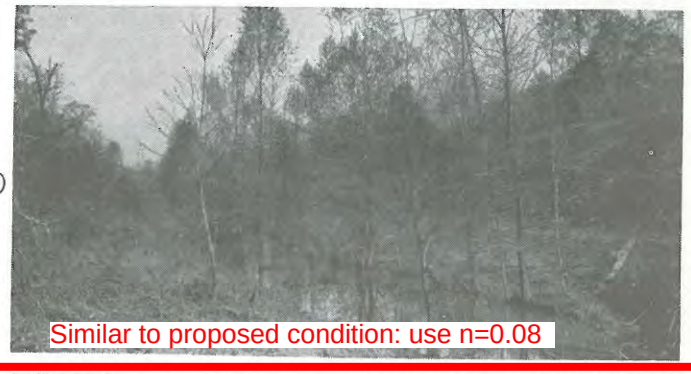
0 75' 150'

M:\PROJECTS\02690 INTEGRAL COMMUNITIES\007-02 EDEN HILLS ENGINEERING\ENG\STORMWATER\H-H\HEC-RAS\FLOODPLAIN ANALYSIS.DWG (01-22-15 11:55:49AM) Plotted by: rroberts

Excerpt from "Open Channel Hydraulics" by Ven Te Chow

(19)

(20)



Similar to proposed condition: use n=0.08

(21)

FIG. 5-5 (19–21)

19. $n = 0.050$. Dredge channel with very irregular side slopes and bottom, in dark-colored waxy clay, with growth of weeds and grass. Slight variation in shape of cross section for variation in size.

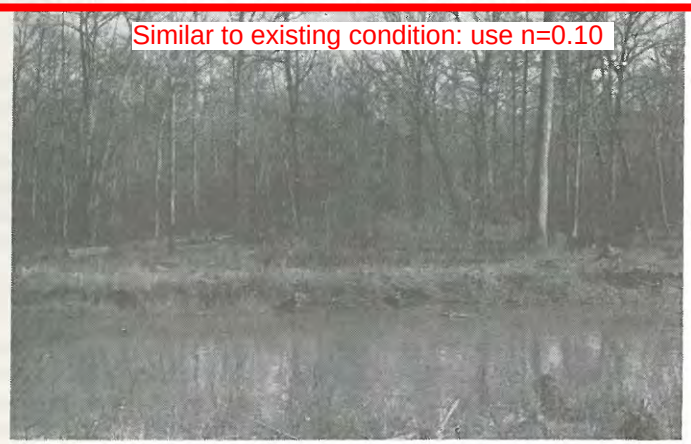
20. $n = 0.060$. Ditch in heavy silty clay; irregular side slopes and bottom; practically entire section filled with large-size growth of trees, principally willows and cottonwoods. Quite uniform cross section.

21. $n = 0.080$. Dredge channel in black slippery clay and gray silty clay loam, irregular wide slopes and bottom, covered with dense growth of bushy willows, some in bottom; remainder of both slopes covered with weeds and a scattering growth of willows and poplars, no foliage; some silting on bottom.

(22)

Similar to existing condition: use n=0.10

(23)



(24)

FIG. 5-5 (22–24)

22. $n = 0.110$. Same as (21), but with much foliage and covered for about 40 ft with growth resembling smart weed.

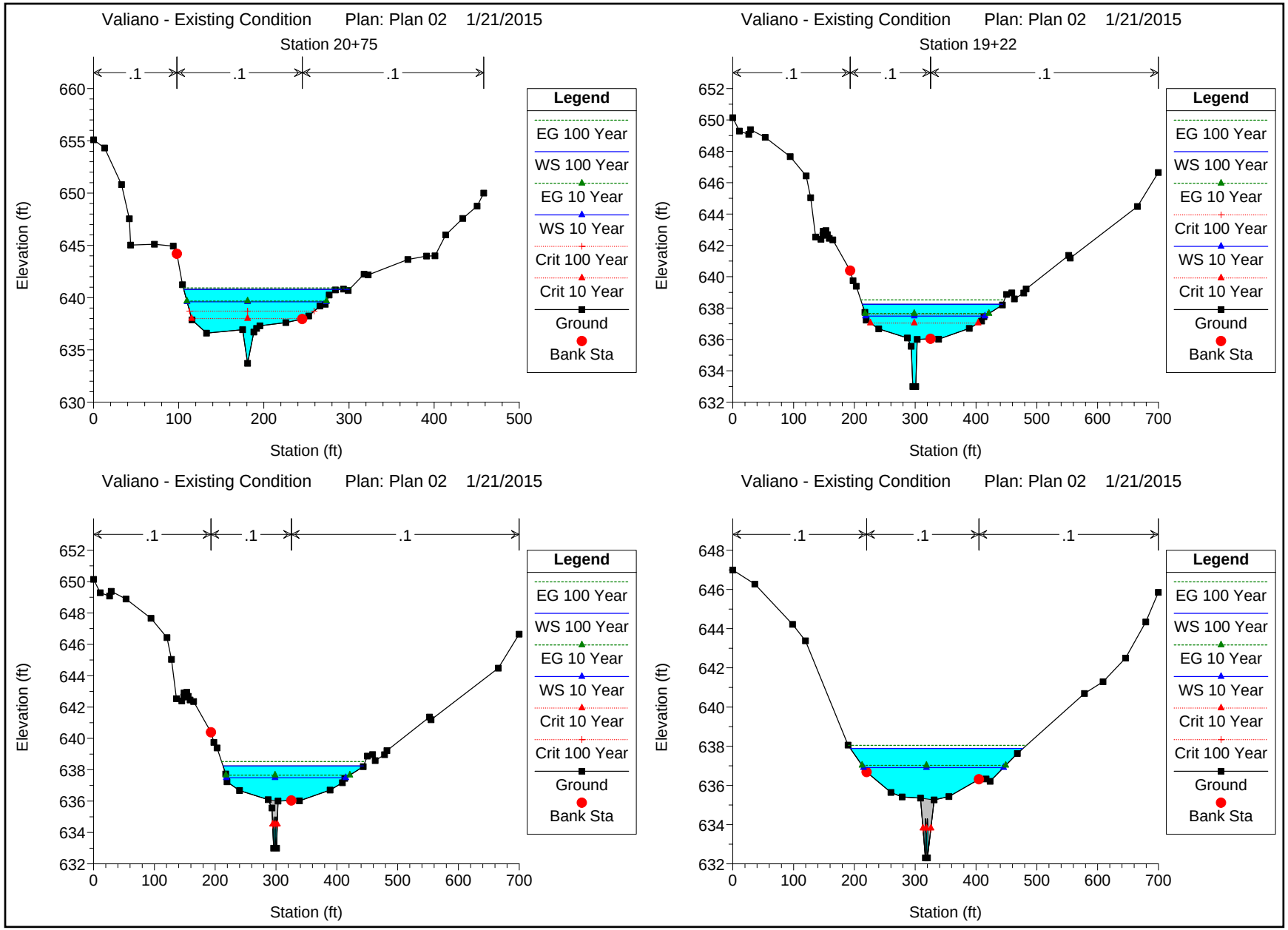
23. $n = 0.125$. Natural channel floodway in median fine sand to fine clay, none side slopes; fairly even and regular bottom with occasional flat bottom sloughs; variation in depth; practically virgin timber, very little undergrowth except occasional dense patches of bushed and small trees, some logs and dead fallen trees.

24. $n = 0.150$. Natural river in sandy clay soil. Very crooked course, irregular side slopes and uneven bottom. Many roots, trees and bushes, large logs and other drift on bottom; trees continually falling into channel due to bank caving.

Existing Conditions

HEC-RAS Plan: Plan 02 River: Eden Hills Chann Reach: 48 Acre Parcel

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
48 Acre Parcel	2075	100 Year	1636.00	633.72	640.80	638.71	640.93	0.007594	3.03	570.28	192.34	0.28
48 Acre Parcel	2075	10 Year	749.00	633.72	639.60	637.99	639.67	0.006015	2.12	366.22	163.48	0.23
48 Acre Parcel	1922	100 Year	1636.00	633.00	638.24	637.60	638.52	0.038069	4.55	392.88	230.86	0.57
48 Acre Parcel	1922	10 Year	749.00	633.00	637.49	637.04	637.66	0.037350	3.45	232.56	196.39	0.52
48 Acre Parcel	1906		Culvert									
48 Acre Parcel	1885	100 Year	1636.00	632.30	637.89		638.05	0.015348	3.31	536.90	284.06	0.37
48 Acre Parcel	1885	10 Year	749.00	632.30	636.91		637.02	0.020687	2.72	286.01	230.41	0.40
48 Acre Parcel	1710	100 Year	1636.00	631.10	635.28		635.43	0.013725	3.04	537.83	232.69	0.35
48 Acre Parcel	1710	10 Year	749.00	631.10	634.28		634.36	0.011296	2.29	327.36	187.62	0.31
48 Acre Parcel	1525	100 Year	1636.00	629.20	632.78		632.88	0.013633	2.51	652.50	375.49	0.34
48 Acre Parcel	1525	10 Year	749.00	629.20	631.72		631.80	0.017300	2.37	315.65	235.88	0.36
48 Acre Parcel	1375	100 Year	1636.00	627.90	632.00		632.04	0.002945	1.46	1120.66	460.18	0.16
48 Acre Parcel	1375	10 Year	749.00	627.90	630.81		630.83	0.003248	1.20	624.75	370.86	0.16
48 Acre Parcel	1200	100 Year	1636.00	626.40	631.23	629.08	631.30	0.006332	2.15	760.91	310.13	0.24
48 Acre Parcel	1200	10 Year	749.00	626.40	630.06		630.11	0.005564	1.69	442.26	234.00	0.22
48 Acre Parcel	1000	100 Year	1636.00	624.40	627.09	627.09	627.82	0.133264	6.89	237.61	165.97	1.01
48 Acre Parcel	1000	10 Year	749.00	624.40	626.45	626.45	626.92	0.153130	5.52	135.67	146.55	1.01
48 Acre Parcel	700	100 Year	1636.00	618.29	625.74	620.36	625.79	0.001520	1.81	906.34	162.78	0.13
48 Acre Parcel	700	10 Year	749.00	618.29	624.42	619.54	624.44	0.000588	1.06	709.46	139.72	0.08
48 Acre Parcel	560	100 Year	1636.00	622.01	625.03		625.23	0.024684	3.61	453.67	236.18	0.46
48 Acre Parcel	560	10 Year	749.00	622.01	624.00		624.16	0.035194	3.21	233.17	188.42	0.51
48 Acre Parcel	400	100 Year	1636.00	613.19	618.83		619.36	0.059324	5.85	279.58	134.99	0.72
48 Acre Parcel	400	10 Year	749.00	613.19	617.04		617.54	0.048974	5.63	133.01	58.71	0.66
48 Acre Parcel	300	100 Year	1636.00	612.00	617.56		617.69	0.006989	2.79	586.88	174.12	0.27
48 Acre Parcel	300	10 Year	749.00	612.00	616.19		616.25	0.005037	2.02	371.02	139.73	0.22
48 Acre Parcel	150	100 Year	1636.00	612.00	616.31		616.44	0.010113	2.83	578.65	222.07	0.31
48 Acre Parcel	150	10 Year	749.00	612.00	615.22		615.29	0.008385	2.11	355.24	183.97	0.27
48 Acre Parcel	100	100 Year	1636.00	609.44	615.96	613.58	616.05	0.005938	2.39	685.35	226.80	0.24
48 Acre Parcel	100	10 Year	749.00	609.44	614.98	612.83	615.02	0.003647	1.58	474.64	202.77	0.18
48 Acre Parcel	60		Culvert									
48 Acre Parcel	25	100 Year	1636.00	608.29	613.88	611.72	614.02	0.013018	3.06	534.46	219.46	0.35
48 Acre Parcel	25	10 Year	749.00	608.29	612.18	610.84	612.31	0.013012	2.90	257.87	114.33	0.34


Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 20+75
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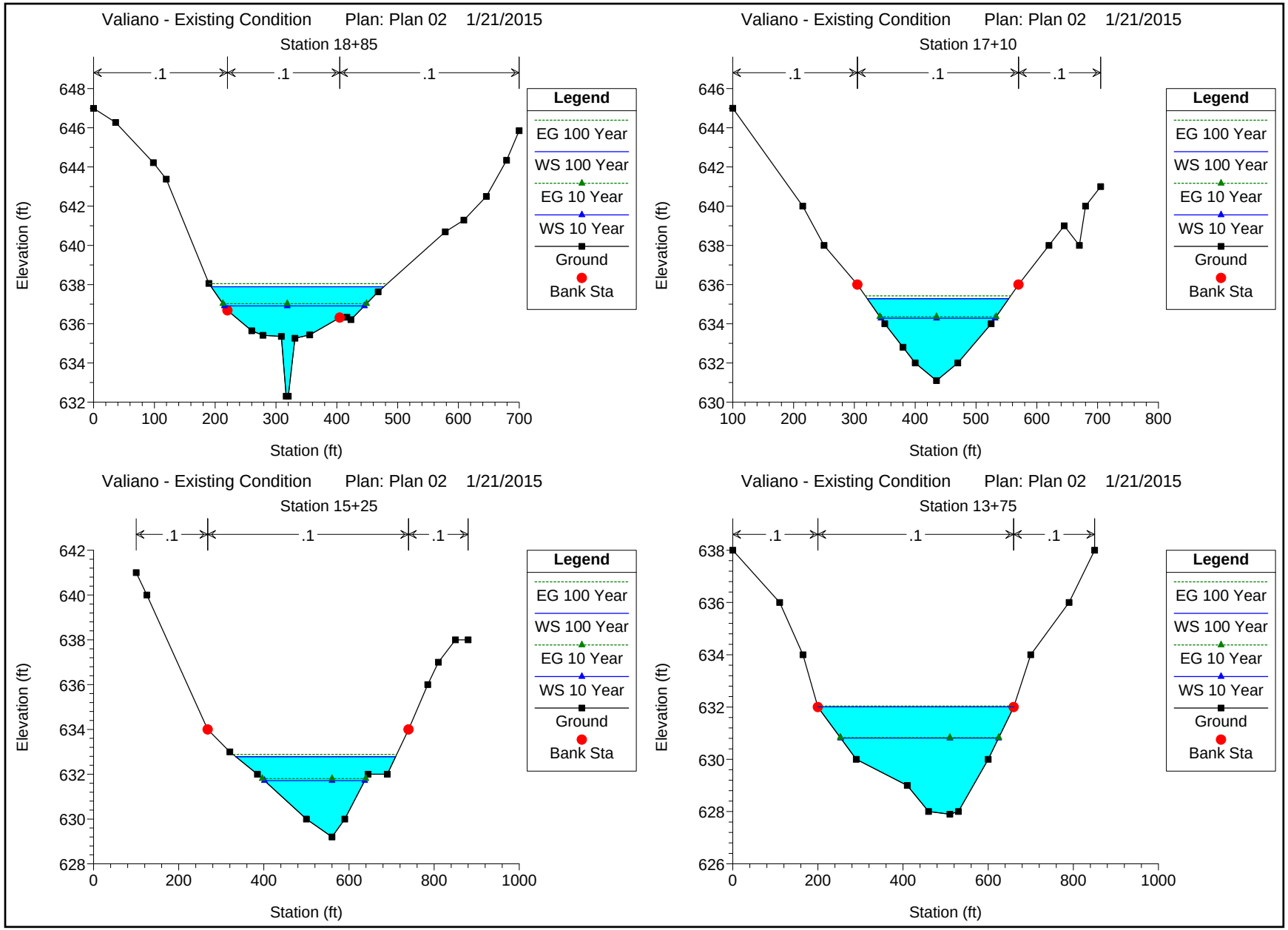
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Crit 100 Year
Crit 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 19+22
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Valiano - Existing Condition Plan: Plan 02 1/21/2015


Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 18+85
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Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 17+10
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Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 15+25
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Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 13+75
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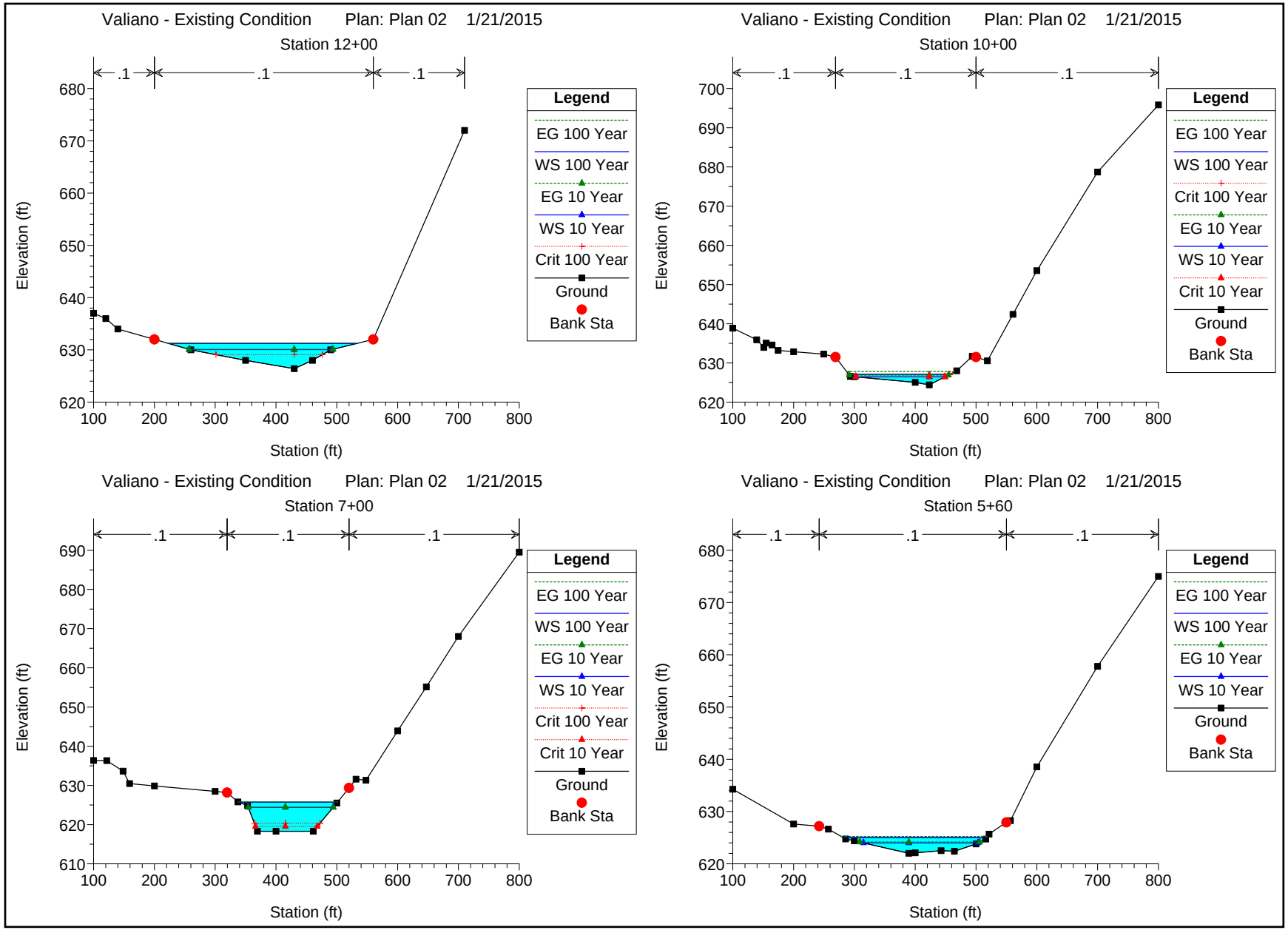
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta


Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 12+00
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Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Crit 100 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 10+00
.1
.1
.1
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
Crit 100 Year
EG 10 Year
WS 10 Year
Crit 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 7+00
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.1
.1
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Crit 100 Year
Crit 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 5+60
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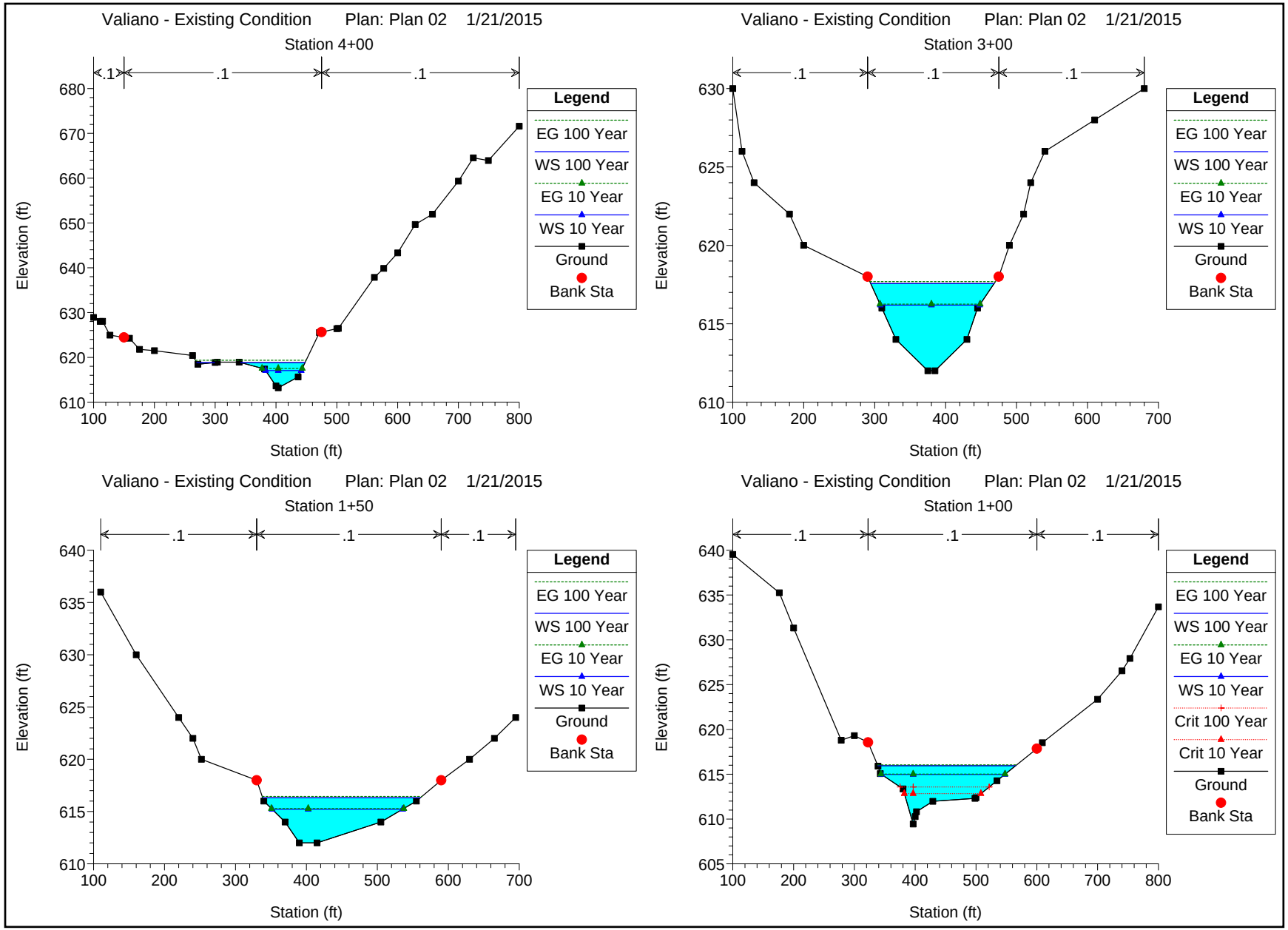
.1
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta


Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 4+00
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Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 3+00
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.1
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 1+50
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.1
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 1+00
.1
.1
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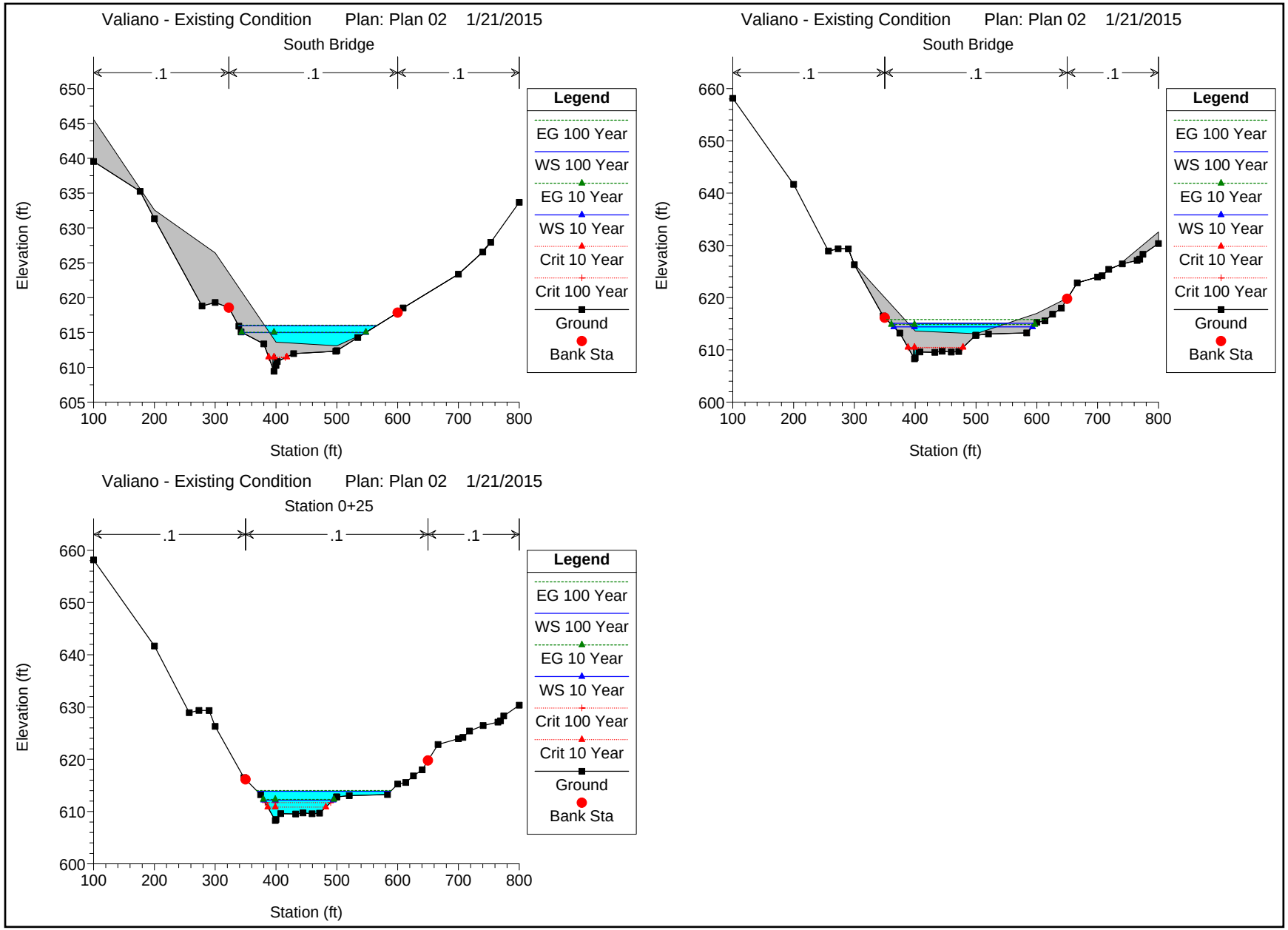
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Crit 100 Year
Crit 10 Year
Ground
Bank Sta


Valiano - Existing Condition Plan: Plan 02 1/21/2015
South Bridge
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Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
EG 10 Year
WS 10 Year
Crit 10 Year
Crit 100 Year
Ground
Bank Sta
Valiano - Existing Condition Plan: Plan 02 1/21/2015
South Bridge
Elevation (ft)
Station (ft)
Valiano - Existing Condition Plan: Plan 02 1/21/2015
Station 0+25
Elevation (ft)
Station (ft)

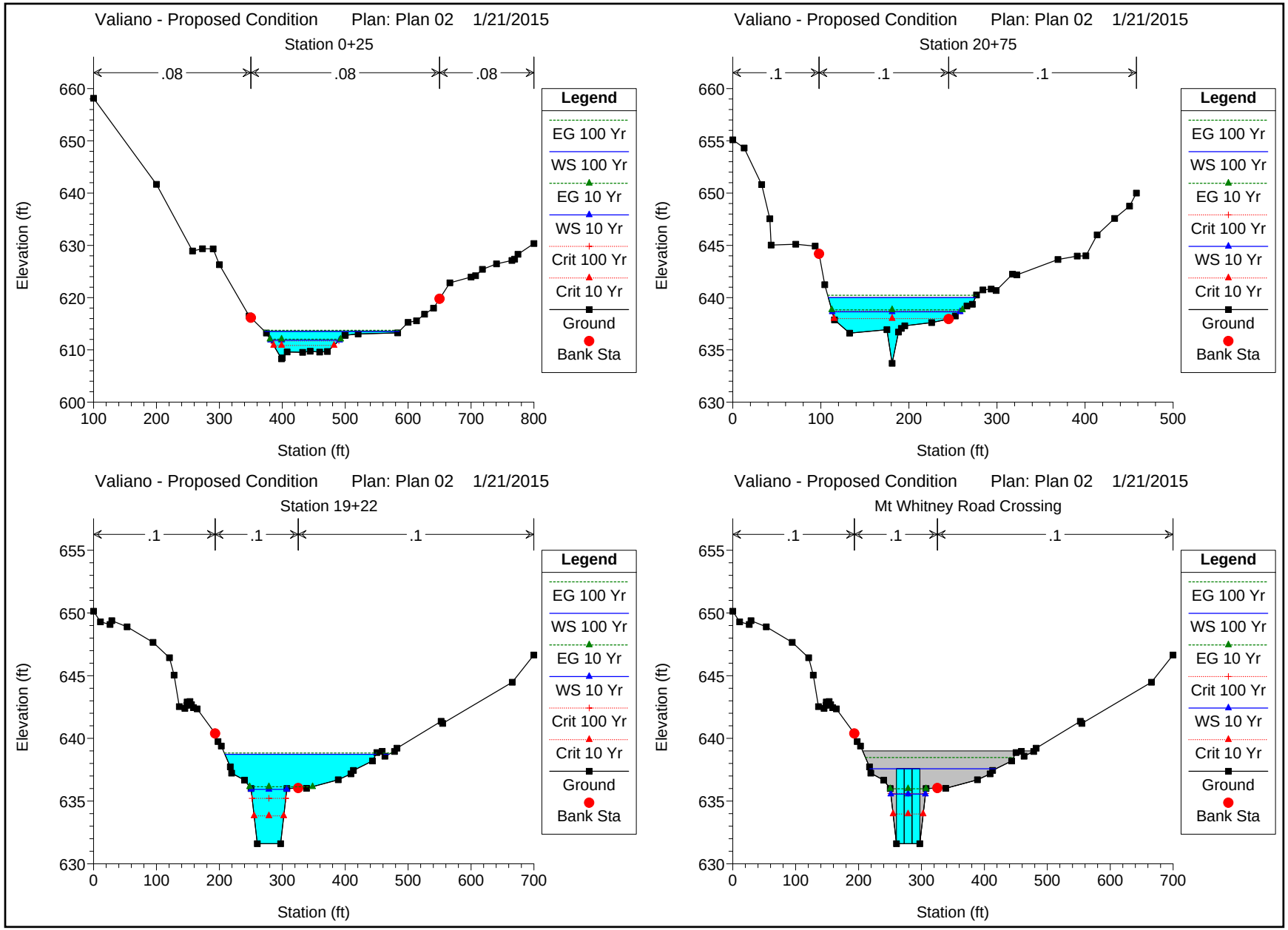
Proposed Conditions

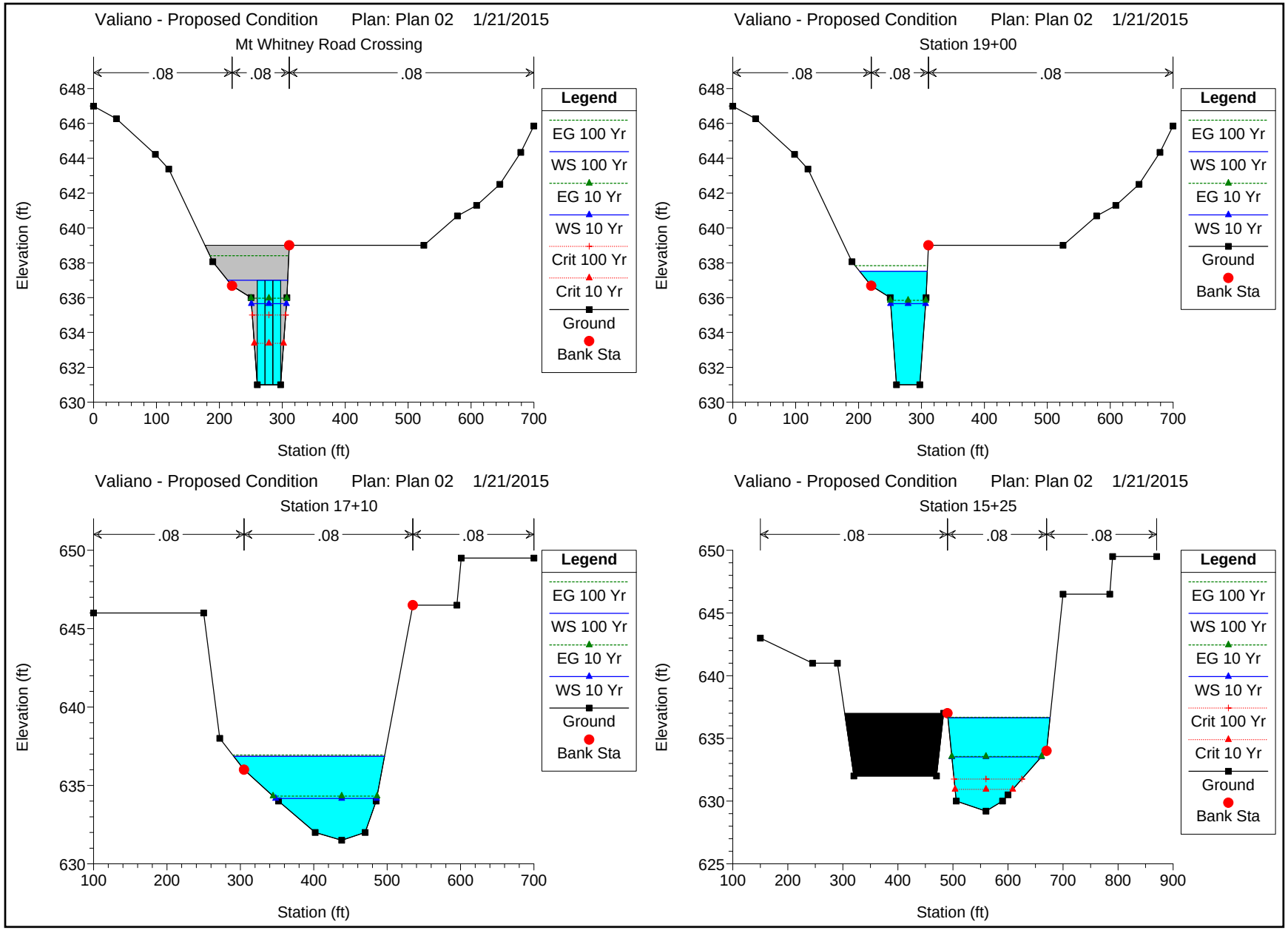
HEC-RAS Plan: Plan 02 River: Eden Hills Chann Reach: 48 Acre Parcel

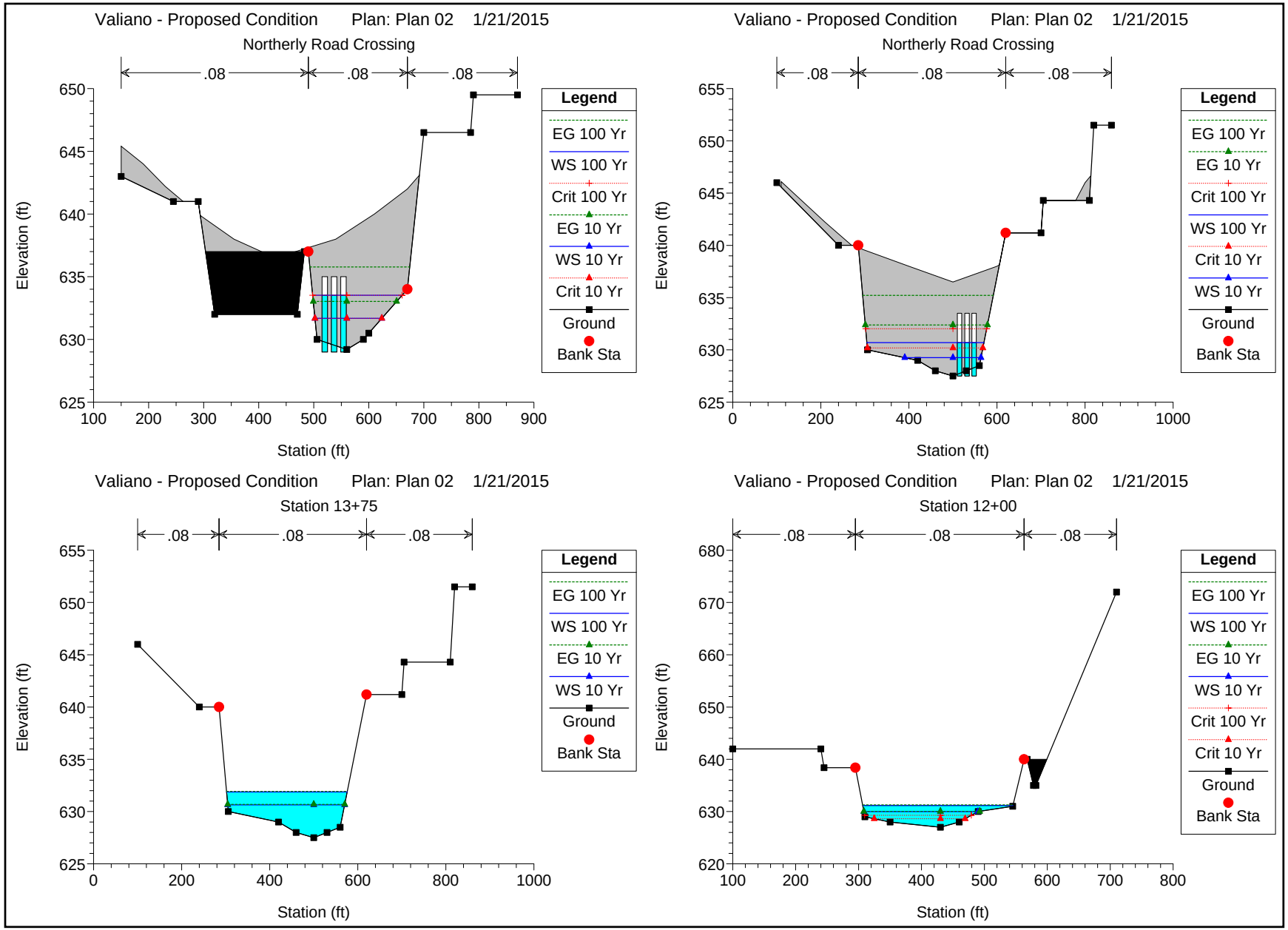
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
48 Acre Parcel	2075	100 Yr	1636.00	633.72	640.00	638.71	640.23	0.017309	3.93	431.78	166.87	0.41
48 Acre Parcel	2075	10 Yr	749.00	633.72	638.65	638.00	638.83	0.029177	3.47	219.04	145.21	0.48
48 Acre Parcel	1922	100 Yr	1636.00	631.60	638.73	635.22	638.83	0.004992	2.67	707.03	248.05	0.23
48 Acre Parcel	1922	10 Yr	749.00	631.60	635.94	633.82	636.15	0.011711	3.69	203.18	56.71	0.34
48 Acre Parcel	1906		Culvert									
48 Acre Parcel	1885	100 Yr	1636.00	631.00	637.52		637.84	0.009741	4.54	366.16	107.55	0.40
48 Acre Parcel	1885	10 Yr	749.00	631.00	635.66		635.84	0.006049	3.47	215.61	55.62	0.31
48 Acre Parcel	1710	100 Yr	1636.00	631.50	636.86		636.94	0.002794	2.33	707.24	205.53	0.21
48 Acre Parcel	1710	10 Yr	749.00	631.50	634.17		634.32	0.013364	3.11	240.58	137.59	0.41
48 Acre Parcel	1525	100 Yr	1636.00	629.20	636.64	631.76	636.68	0.000753	1.61	1022.07	185.53	0.12
48 Acre Parcel	1525	10 Yr	749.00	629.20	633.52	630.93	633.56	0.001824	1.60	468.08	162.55	0.17
48 Acre Parcel	1440		Culvert									
48 Acre Parcel	1375	100 Yr	1636.00	627.50	631.87		631.93	0.002547	1.96	833.03	273.86	0.20
48 Acre Parcel	1375	10 Yr	749.00	627.50	630.65		630.68	0.002761	1.49	502.22	265.49	0.19
48 Acre Parcel	1200	100 Yr	1636.00	627.00	631.17	629.28	631.28	0.005761	2.65	617.41	238.82	0.29
48 Acre Parcel	1200	10 Yr	749.00	627.00	629.98	628.63	630.04	0.004954	2.07	361.83	181.23	0.26
48 Acre Parcel	1000	100 Yr	1636.00	625.50	627.55	627.55	628.32	0.082430	7.07	231.54	151.64	1.01
48 Acre Parcel	1000	10 Yr	749.00	625.50	626.88	626.88	627.37	0.095968	5.62	133.25	137.94	1.01
48 Acre Parcel	700	100 Yr	1636.00	618.30	625.21	620.35	625.26	0.001130	1.93	849.58	155.07	0.14
48 Acre Parcel	700	10 Yr	749.00	618.30	624.05	619.54	624.07	0.000439	1.10	678.75	140.63	0.09
48 Acre Parcel	560	100 Yr	1636.00	622.00	624.02	624.02	624.69	0.085721	6.60	248.03	185.61	1.01
48 Acre Parcel	560	10 Yr	749.00	622.00	623.33	623.33	623.81	0.096200	5.54	135.13	143.15	1.01
48 Acre Parcel	400	100 Yr	1636.00	614.00	624.19	617.50	624.20	0.000259	0.94	1747.17	316.81	0.07
48 Acre Parcel	400	10 Yr	749.00	614.00	619.11	616.43	619.16	0.002416	1.72	435.12	167.47	0.19
48 Acre Parcel	300	100 Yr	1636.00	612.00	624.11	615.70	624.16	0.000663	1.72	948.54	165.27	0.11

HEC-RAS Plan: Plan 02 River: Eden Hills Chann Reach: 48 Acre Parcel (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
48 Acre Parcel	300	10 Yr	749.00	612.00	618.93	614.38	618.99	0.001246	1.84	405.97	83.63	0.15
48 Acre Parcel	250		Culvert									
48 Acre Parcel	150	100 Yr	1636.00	612.00	616.25		616.41	0.008269	3.26	501.70	186.47	0.35
48 Acre Parcel	150	10 Yr	749.00	612.00	615.20		615.28	0.006281	2.34	319.57	158.69	0.29
48 Acre Parcel	100	100 Yr	1636.00	611.50	615.94	614.02	616.06	0.005637	2.77	591.28	211.06	0.29
48 Acre Parcel	100	10 Yr	749.00	611.50	614.98	613.27	615.04	0.003629	1.87	401.25	185.87	0.22
48 Acre Parcel	60		Culvert									
48 Acre Parcel	25	100 Yr	1636.00	608.29	613.55	611.72	613.74	0.013007	3.53	462.86	213.94	0.42
48 Acre Parcel	25	10 Yr	749.00	608.29	611.86	610.86	612.04	0.013010	3.37	221.99	109.88	0.42


Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 0+25
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 100 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 20+75
.1
.1
.1
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
Crit 100 Yr
WS 10 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 19+22
.1
.1
.1
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 100 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Mt Whitney Road Crossing
.1
.1
.1
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
Crit 100 Yr
WS 10 Yr
Crit 10 Yr
Ground
Bank Sta


Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Mt Whitney Road Crossing
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 100 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 19+00
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 17+10
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 15+25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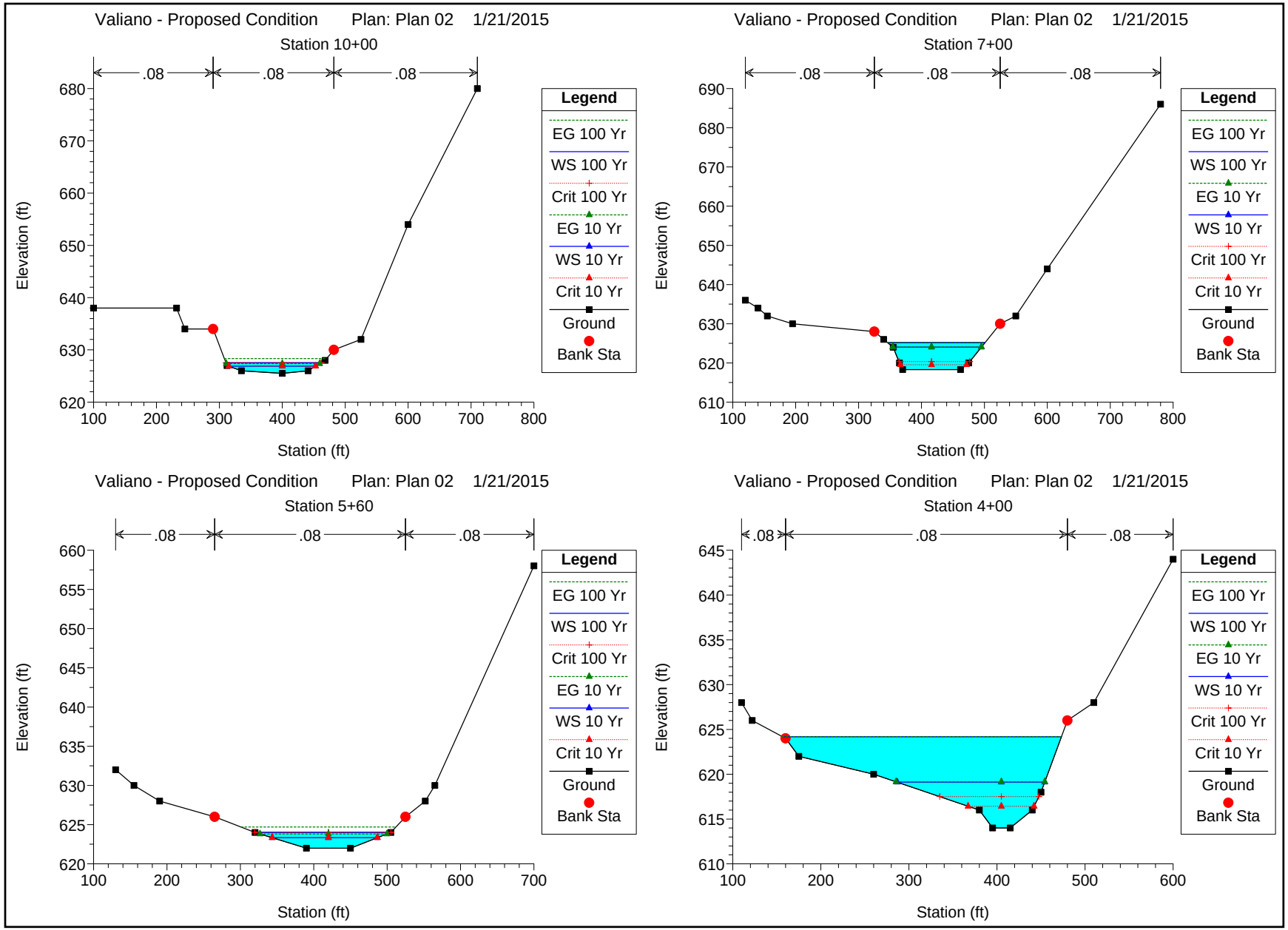
Northerly Road Crossing
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
Crit 100 Yr
EG 10 Yr
WS 10 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Northerly Road Crossing
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 13+75
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 12+00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Station 10+00
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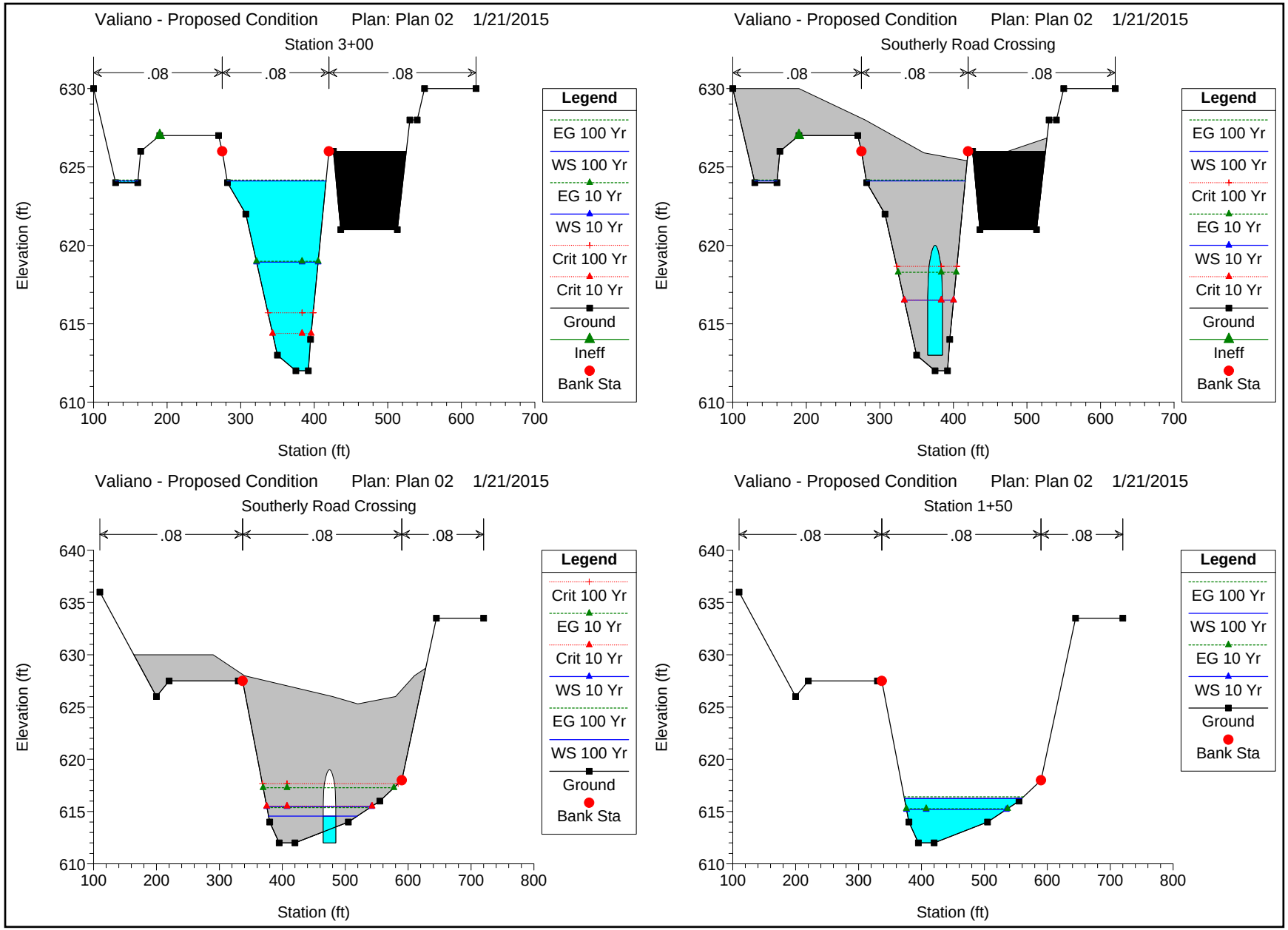
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
Crit 100 Yr
EG 10 Yr
WS 10 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 7+00
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 100 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 5+60
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
Crit 100 Yr
EG 10 Yr
WS 10 Yr
Crit 10 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 4+00
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 100 Yr
Crit 10 Yr
Ground
Bank Sta


Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 3+00
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
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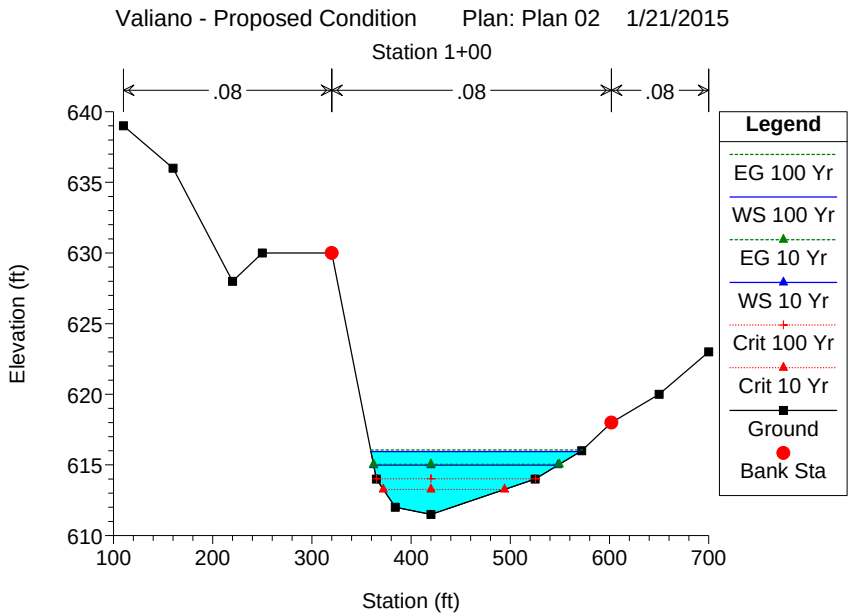
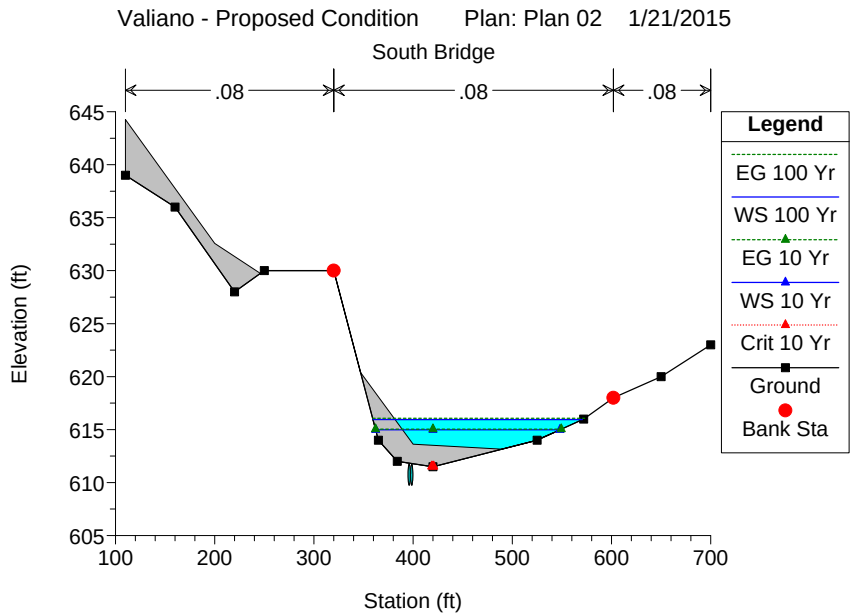
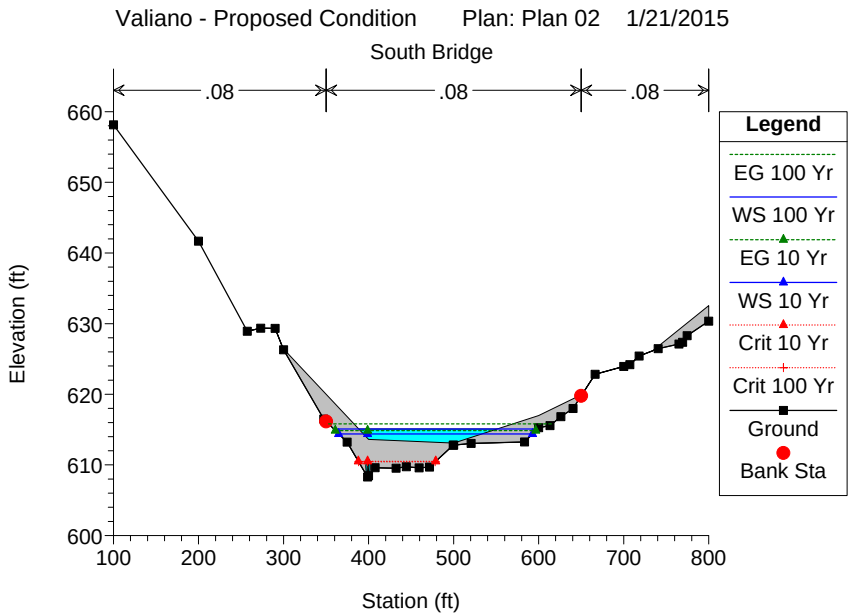
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 100 Yr
Crit 10 Yr
Ground
Ineff
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Southerly Road Crossing
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
Crit 100 Yr
EG 10 Yr
WS 10 Yr
Crit 10 Yr
Ground
Ineff
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Southerly Road Crossing
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
Crit 100 Yr
EG 10 Yr
Crit 10 Yr
WS 10 Yr
EG 100 Yr
WS 100 Yr
Ground
Bank Sta
Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 1+50
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Ground
Bank Sta


Valiano - Proposed Condition Plan: Plan 02 1/21/2015
Station 1+00
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 100 Yr
Crit 10 Yr
Ground
Bank Sta


Valiano - Proposed Condition Plan: Plan 02 1/21/2015
South Bridge
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 10 Yr
Ground
Bank Sta


Valiano - Proposed Condition Plan: Plan 02 1/21/2015
South Bridge
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Yr
WS 100 Yr
EG 10 Yr
WS 10 Yr
Crit 10 Yr
Crit 100 Yr
Ground
Bank Sta

FUSCOE ENGINEERING
full circle thinking

8+53
6+81
5+02
3+35
1+77
8+75
8+00
7+00
6+00
5+00
4+00
3+00
2+00
1+00
PR. Q100 WSE=689.7
PR. Q100 WSE=686.4
PR. Q100 WSE=682.8
PR. Q100 WSE=679.3
PR. Q100 WSE=675.4

LEGEND

CHANNEL FLOW LINE

100 YEAR STORM INUNDATION LIMITS (PROPOSED CHANNEL, N = 0.08)

VALIANO NEIGHBORHOOD 3
100-YEAR STORM INUNDATION EXHIBIT
SCALE: 1"=100'

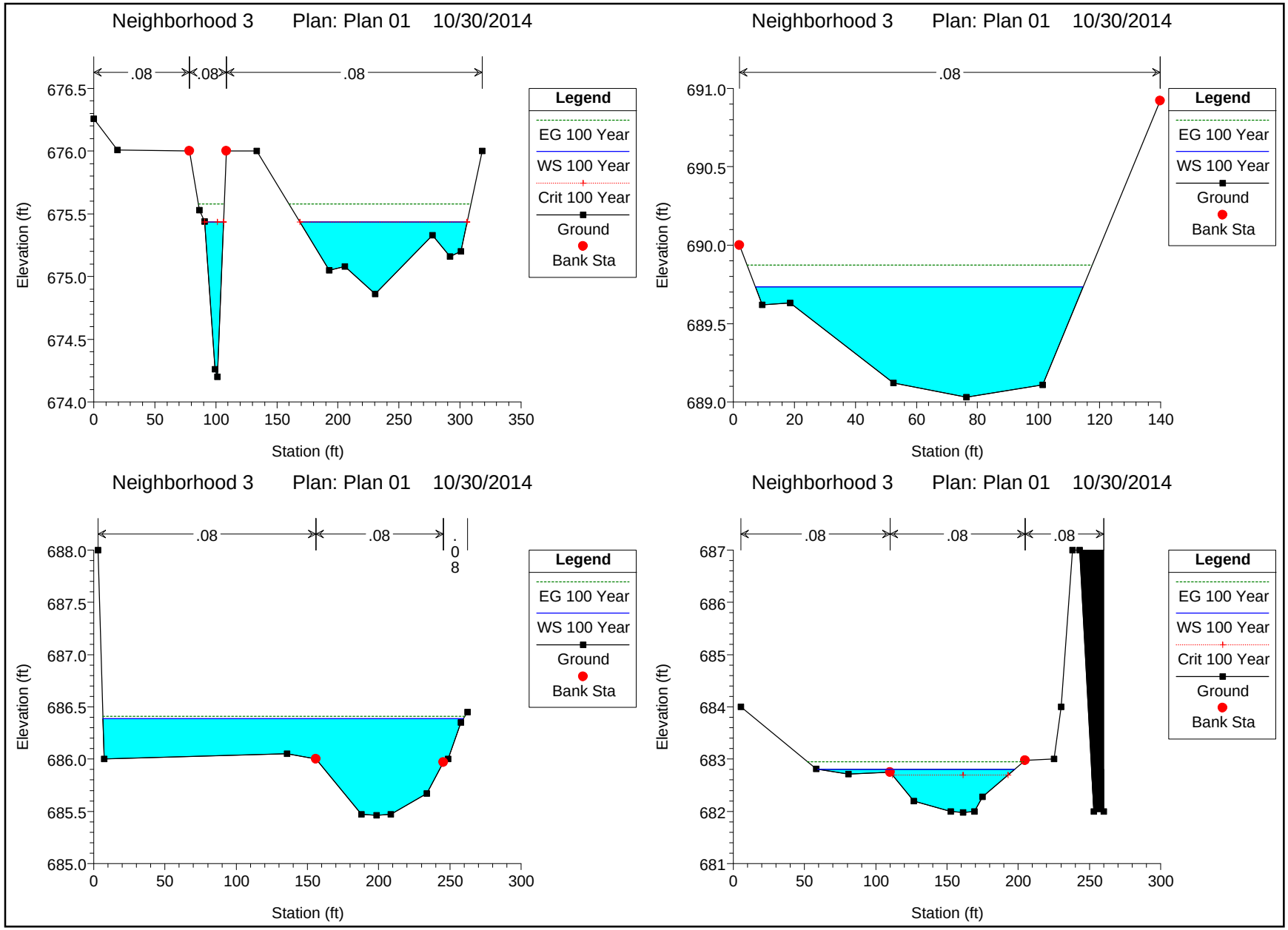
See Appendix H for a larger 1"=50' Exhibit

0 50' 100'

M:\PROJECTS\02690 INTEGRAL COMMUNITIES\007-02 EDEN HILLS ENGINEERING\ENG\STORMWATER\H-H\HEC-RAS\FLOODPLAIN ANALYSIS.DWG (10-30-14 Plotted by: rroberts

HEC-RAS Plan: Plan 01 River: Neighborhood 3 C Reach: Lower N3 Profile: 100 Year

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Lower N3	853	100 Year	148.50	689.03	689.73		689.87	0.072543	2.99	49.64	107.32	0.78
Lower N3	681	100 Year	148.50	685.46	686.38		686.41	0.009170	1.47	123.87	252.98	0.30
Lower N3	502	100 Year	148.50	681.98	682.81	682.70	682.95	0.063764	3.10	50.30	138.38	0.75
Lower N3	335	100 Year	148.50	677.88	679.26		679.30	0.010807	2.09	112.45	249.75	0.35
Lower N3	177	100 Year	148.50	674.20	675.44	675.44	675.58	0.084275	4.13	53.05	152.62	0.88


Neighborhood 3 Plan: Plan 01 10/30/2014
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
Crit 100 Year
Ground
Bank Sta
Neighborhood 3 Plan: Plan 01 10/30/2014
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
Ground
Bank Sta
Neighborhood 3 Plan: Plan 01 10/30/2014
.08
.08
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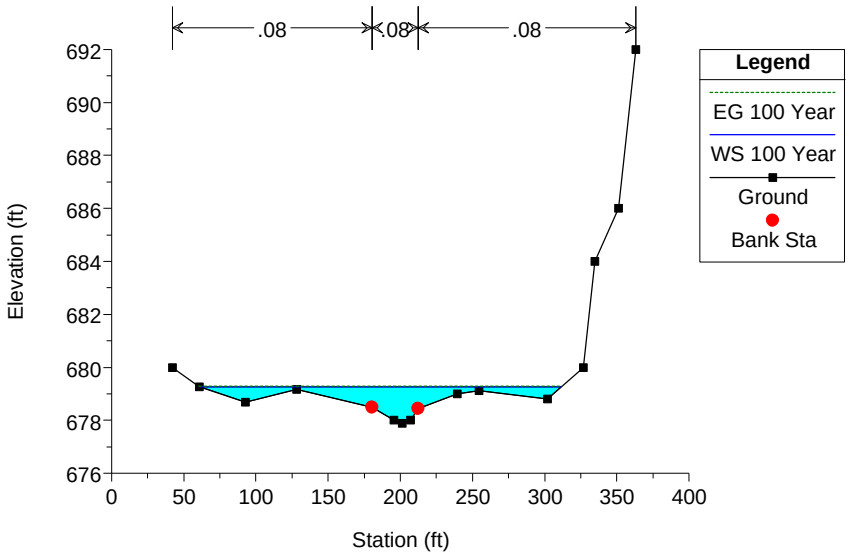
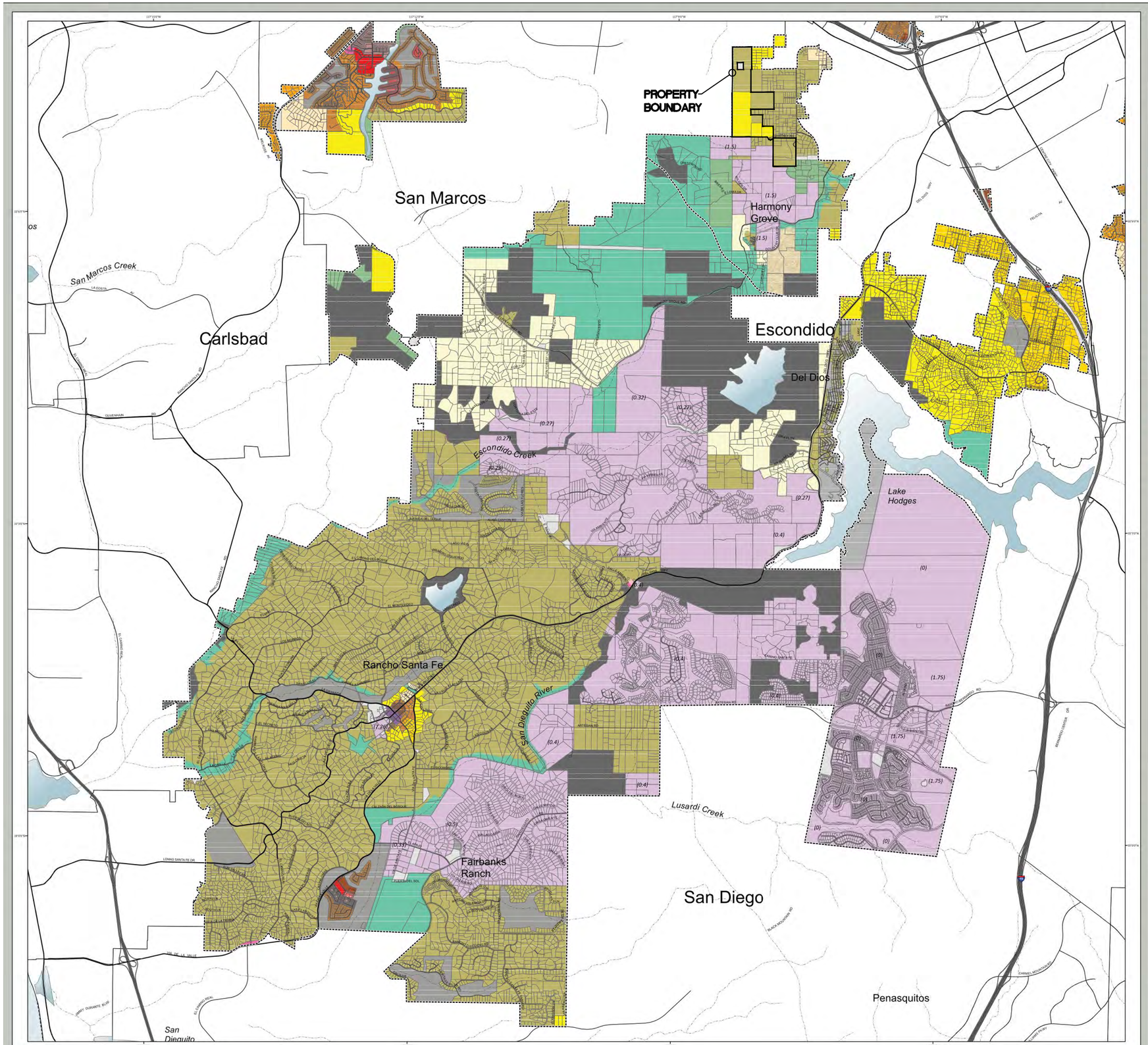
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
Ground
Bank Sta
Neighborhood 3 Plan: Plan 01 10/30/2014
.08
.08
.08
Elevation (ft)
Station (ft)
Legend
EG 100 Year
WS 100 Year
Crit 100 Year
Ground
Bank Sta

Neighborhood 3 Plan: Plan 01 10/30/2014



Appendix G

<u>Hill Valley Road Analysis</u>
San Dieguito Community Plan Area – C Value Reference
Hill Valley Road Basin Coding Summary
Hill Valley Road AES Output
Existing Conditions Culvert Analysis
Proposed Conditions Culvert Analysis
Hill Valley Road Crossing Exhibit



San Dieguito
Community Planning Area

General Plan Land Use Designations[1,2]
Adopted August 2011

- Village Residential (VR-30)
- Village Residential (VR-24)
- Village Residential (VR-20)
- Village Residential (VR-15)
- Village Residential (VR-10.9)
- Village Residential (VR-7.3)
- Village Residential (VR-4.3)
- Village Residential (VR-2.9)
- Village Residential (VR-2)
- Semi-Rural Residential (SR-.5)
- Semi-Rural Residential (SR-1)
- Semi-Rural Residential (SR-2)
- Semi-Rural Residential (SR-4)
- Semi-Rural Residential (SR-10)
- Rural Lands (RL-20)
- Rural Lands (RL-40)
- Rural Lands (RL-80)
- Specific Plan Area (residential densities in italics)[4]
- Office Professional[3]
- Neighborhood Commercial[3]
- General Commercial[3]
- Rural Commercial[3]
- Limited Impact Industrial[3]
- Medium Impact Industrial[3]
- High Impact Industrial[3]
- Village Core Mixed Use
- Public/Semi-Public Facilities[3]
- Public/Semi-Public Lands (Solid Waste Facility)
- Public Agency Lands
- Tribal Lands
- Open Space (Recreation)
- Open Space (Conservation)
- County Water Authority Boundary
- San Dieguito Community Planning Area Boundary

NOTES:

1: The type and intensity of development depicted on the map must be implemented in accordance with General Plan goals and policies and other County regulations which may further affect the type and intensity of use.

2: Land Use Element, Table LU-1 indicates the applicable Regional Category for each designation.

3: Maximum development intensity for non-residential designations is provided in Land Use Element, Table LU-1.

4: Refer to Community Plan for general land uses and intensities allowed in Specific Plan area (SPA).

Map Prepared By:

LUEG GIS
Land Use & Environment Group Geographic Information Service

Coordinates: NAD83 Feet

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Regional Location Map

Source: County of San Diego, SanGIS, SANDAG
File reference:
S:\land_use\ggupdate_maps\official_maps\mxd\new_general_plan_atlas_12_7.mxd

20
ACRES

0 2,050 4,100 8,200
Feet

Printed: July 23, 2012