

HEC-RAS Plan: Plan 06 River: CAVE CREEK Reach: CULV 8

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
CULV 8	9	PF 1	345.00	1640.94	1645.66	1642.97	1645.73	0.000785	2.16	160.78	54.46	0.22
CULV 8	9	PF 2	774.00	1640.94	1647.82	1644.14	1647.93	0.000700	2.64	305.45	83.00	0.22
CULV 8	9	PF 3	1556.00	1640.94	1650.67	1645.61	1650.81	0.000512	3.13	625.44	165.97	0.20
CULV 8	8	PF 1	345.00	1641.43	1645.43	1643.52	1645.63	0.002098	3.57	96.51	26.74	0.33
CULV 8	8	PF 2	774.00	1641.43	1647.39	1644.77	1647.81	0.002880	5.18	149.38	27.28	0.39
CULV 8	8	PF 3	1556.00	1641.43	1649.88	1646.55	1650.67	0.003928	7.13	219.24	31.27	0.45
CULV 8	7.5	Culvert										
CULV 8	7	PF 1	345.00	1641.00	1643.89	1643.77	1644.61	0.017245	6.82	50.57	29.26	0.91
CULV 8	7	PF 2	774.00	1641.00	1645.07	1644.96	1646.35	0.016822	9.08	85.29	29.79	0.95
CULV 8	7	PF 3	1556.00	1641.00	1646.61	1646.61	1648.78	0.018075	11.82	131.64	30.48	1.00
CULV 8	6	PF 1	345.00	1640.55	1643.10		1643.55	0.009645	5.41	64.12	35.78	0.70
CULV 8	6	PF 2	774.00	1640.55	1643.76	1643.76	1644.97	0.017979	8.85	88.66	38.18	1.00
CULV 8	6	PF 3	1556.00	1640.55	1645.99	1645.36	1647.09	0.007327	8.67	236.60	105.53	0.71
CULV 8	5	PF 1	458.00	1638.39	1640.90		1641.15	0.007530	4.03	113.66	80.16	0.60
CULV 8	5	PF 2	1022.00	1638.39	1643.22	1641.23	1643.35	0.001425	2.94	358.24	130.62	0.29
CULV 8	5	PF 3	2046.00	1638.39	1646.37		1646.49	0.000511	2.81	867.85	224.55	0.20
CULV 8	4	PF 1	458.00	1637.16	1640.84		1640.92	0.001119	2.16	212.47	92.37	0.25
CULV 8	4	PF 2	1022.00	1637.16	1643.20		1643.27	0.000587	2.11	483.51	133.83	0.20
CULV 8	4	PF 3	2046.00	1637.16	1646.38		1646.45	0.000313	2.11	984.69	182.81	0.15
CULV 8	3	PF 1	458.00	1636.08	1640.66	1638.66	1640.80	0.001608	3.01	151.93	51.38	0.31
CULV 8	3	PF 2	1022.00	1636.08	1642.99	1639.96	1643.18	0.001865	3.48	293.72	88.57	0.34
CULV 8	3	PF 3	2046.00	1636.08	1646.26	1641.40	1646.40	0.000732	3.01	696.22	136.52	0.23
CULV 8	2.5	Culvert										
CULV 8	2	PF 1	458.00	1635.92	1638.45		1639.08	0.015985	6.37	71.86	43.97	0.88
CULV 8	2	PF 2	1022.00	1635.92	1639.57	1639.57	1640.41	0.020562	7.39	138.32	82.41	1.00
CULV 8	2	PF 3	2046.00	1635.92	1640.54	1640.54	1641.90	0.018137	9.35	219.42	83.47	1.01
CULV 8	1	PF 1	458.00	1634.37	1637.09	1636.82	1637.51	0.013667	5.18	88.49	67.75	0.80
CULV 8	1	PF 2	1022.00	1634.37	1638.20	1637.79	1638.66	0.010768	5.48	186.58	109.82	0.74

CULVERTS 8 7 9
 OPTION 2: OVERTOP.
 CULVERT 8: 28'x8'
 CULVERT 9: 32'x9'

WS DEPTH = 0.9'
 WS DEPTH = 1.3'

←

← Add Jimmy moved from section 5 to section 6

← EX. COND.

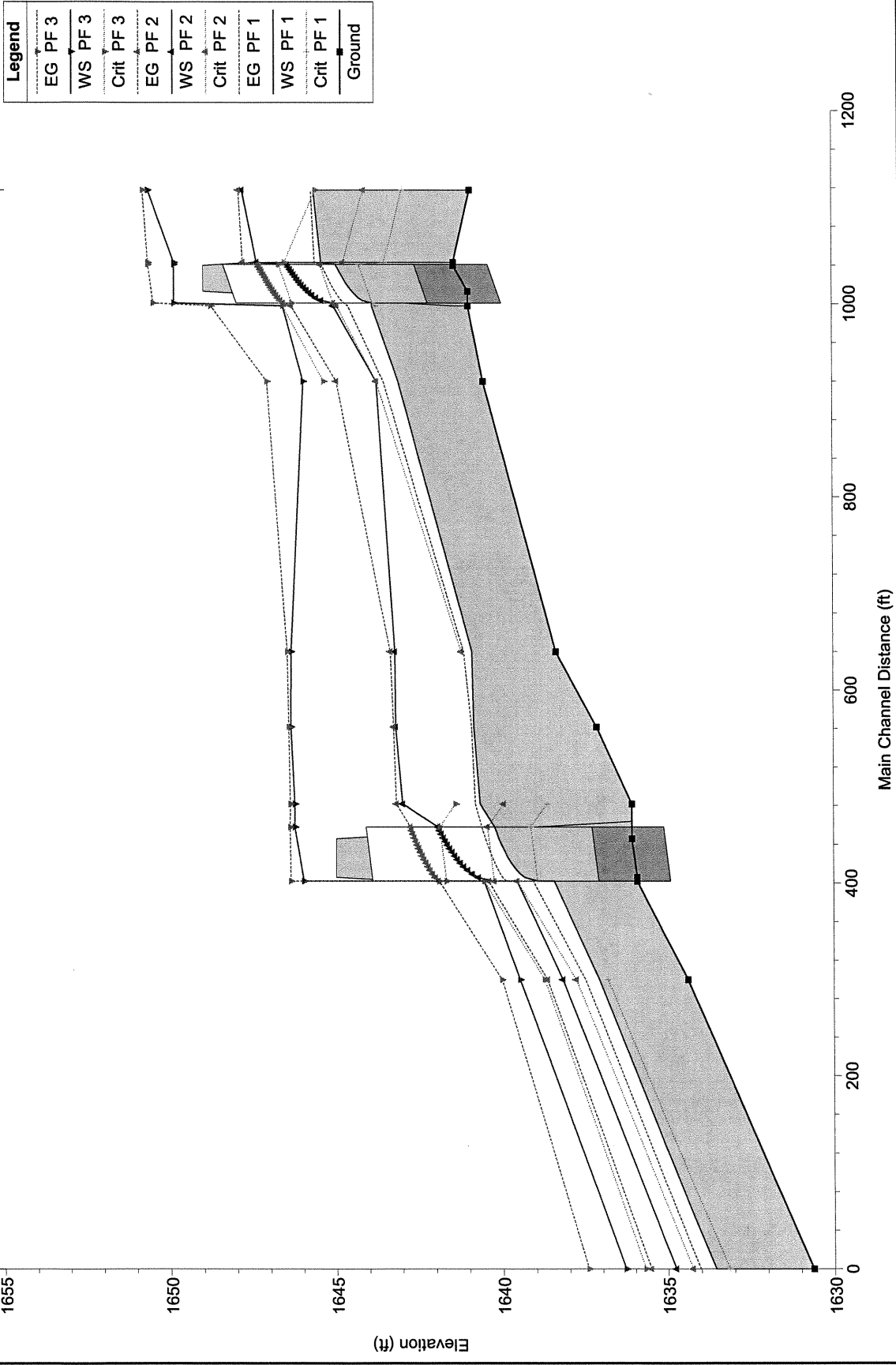
HEC-RAS Plan: Plan 06 River: CAVE CREEK Reach: CULV 8 (Continued)

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
CULV 8	1	PF 3	2046.00	1634.37	1639.48	1638.75	1640.02	0.007214	5.94	344.71	132.93	0.65
CULV 8	0.5	PF 1	458.00	1630.63	1633.56	1633.15	1634.02	0.010015	5.41	84.70	47.38	0.71
CULV 8	0.5	PF 2	1022.00	1630.63	1634.76	1634.25	1635.52	0.010003	7.00	145.95	54.90	0.76
CULV 8	0.5	PF 3	2046.00	1630.63	1636.29	1635.69	1637.44	0.010020	8.57	238.68	65.94	0.79

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

CAVE CREEK CULV 8

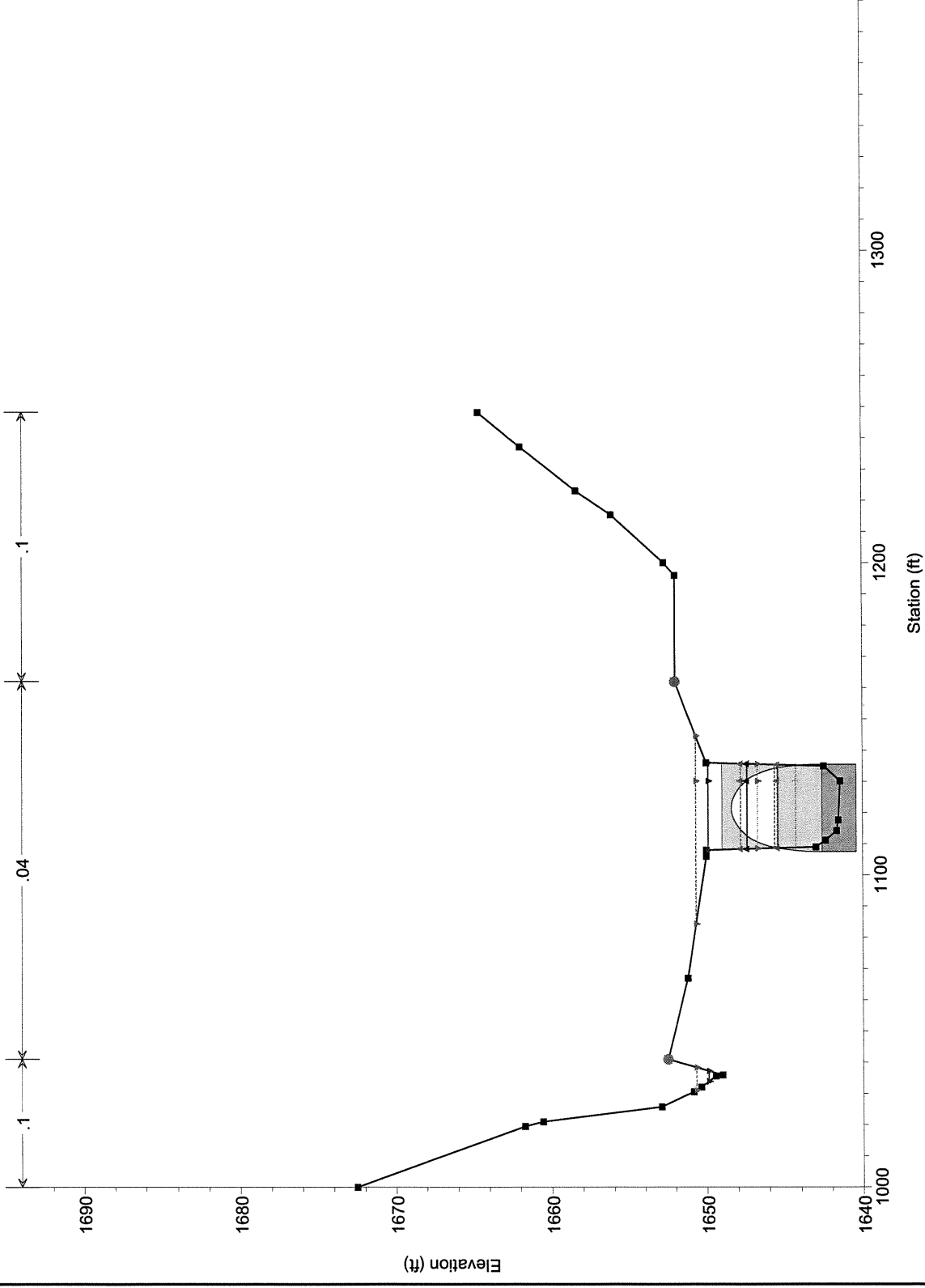


Legend	
EG PF 3	---▲---
WS PF 3	---▲---
Crit PF 3	---▲---
EG PF 2	---▲---
WS PF 2	---▲---
Crit PF 2	---▲---
EG PF 1	---▲---
WS PF 1	---▲---
Crit PF 1	---▲---
Ground	—■—

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 7.5 Culv CULVERT 8

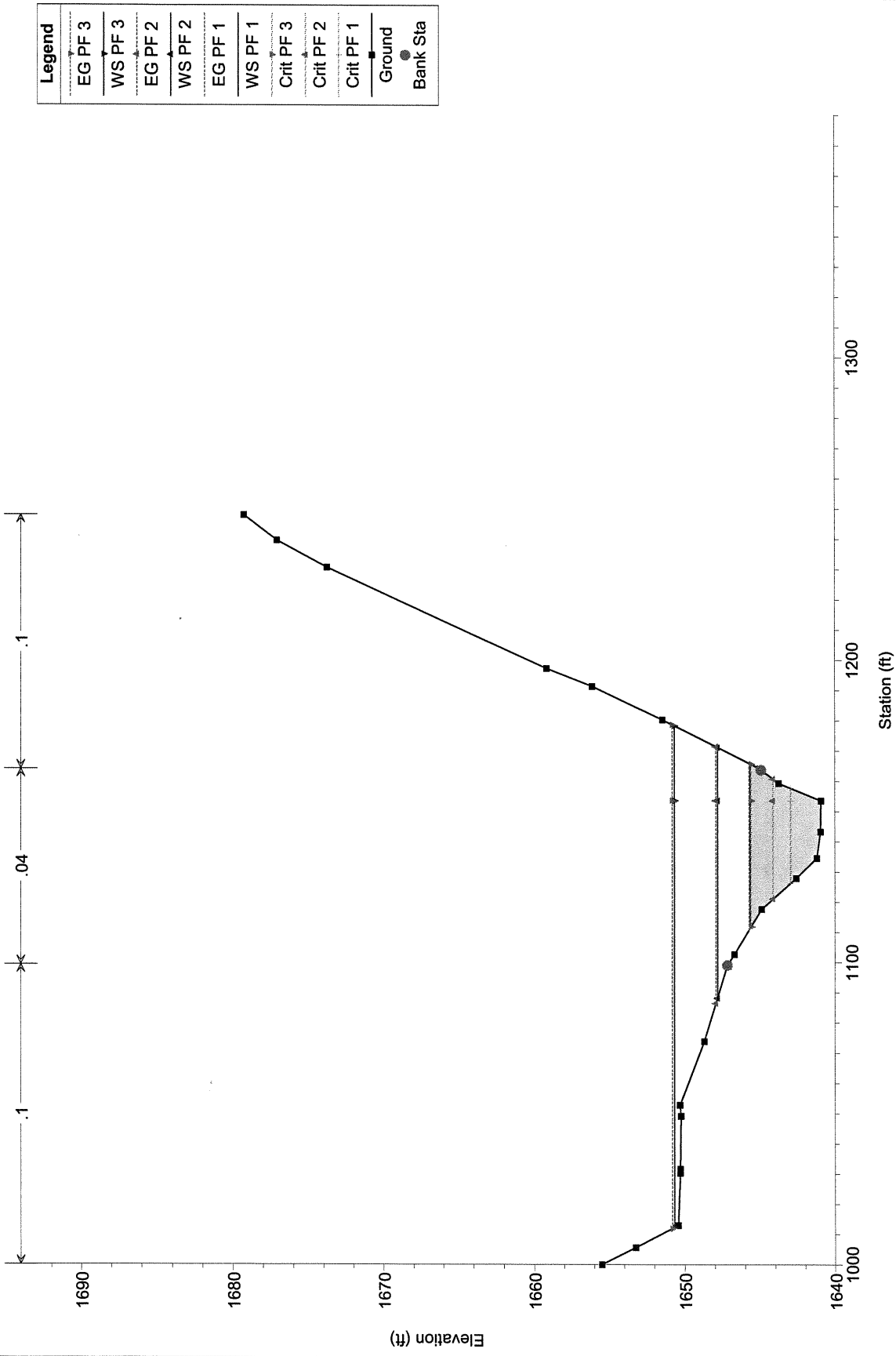


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 9 SECTION 9 AT BEGIN CONTRACTION FOR CULV 8

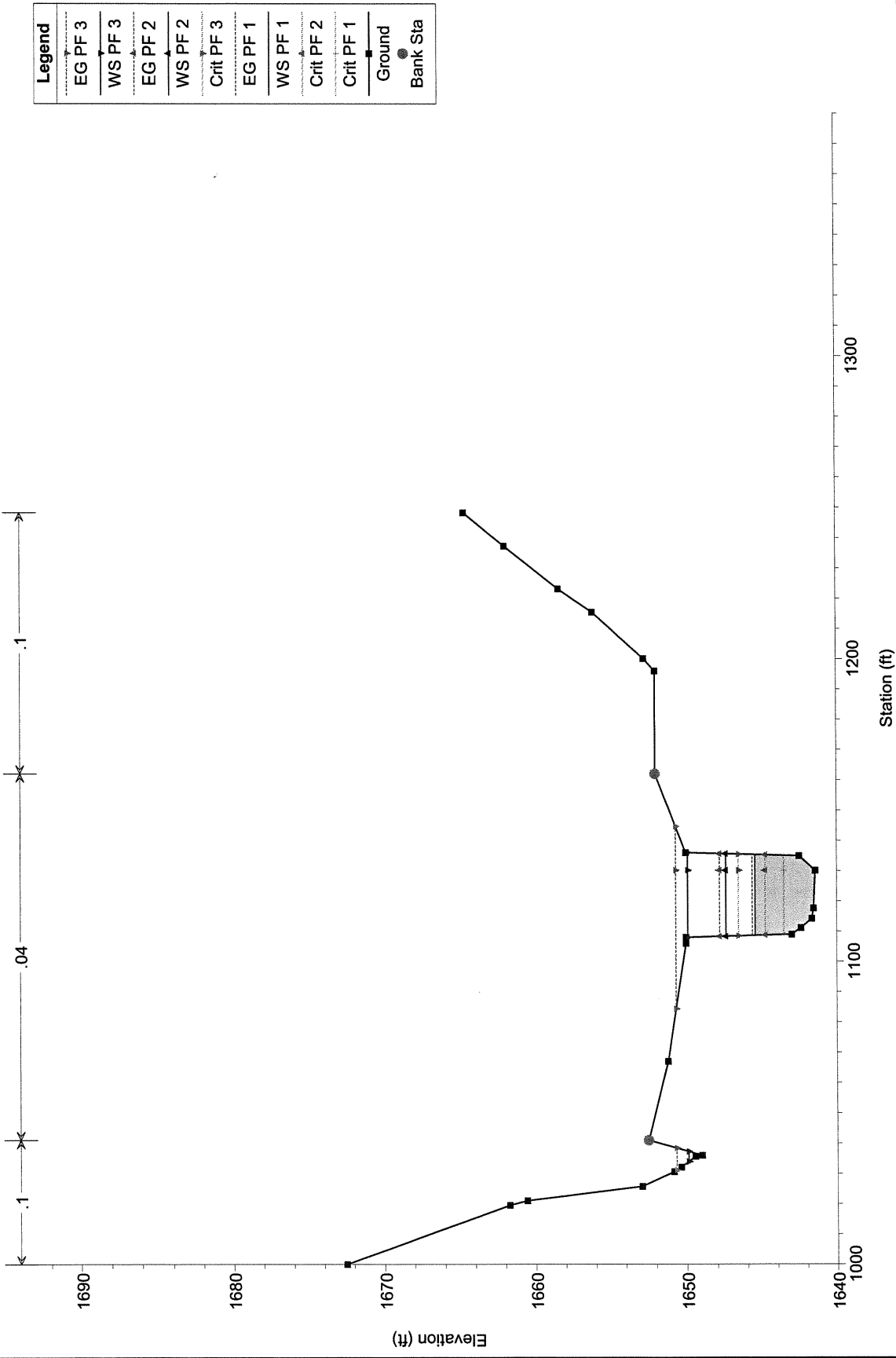


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 8 SECTION 8 JUST US OF CULV 8

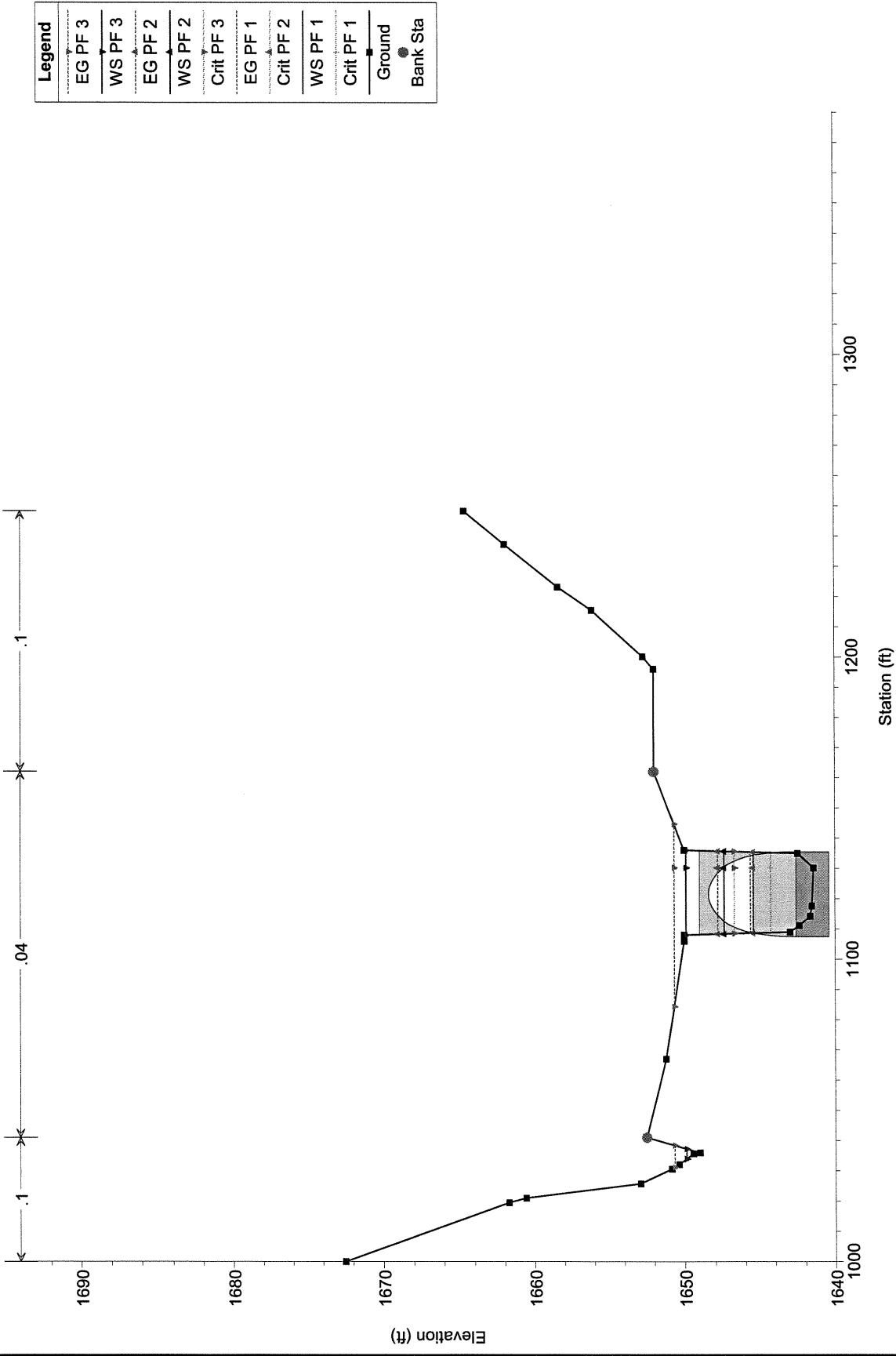


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 7.5 Culv CULVERT 8

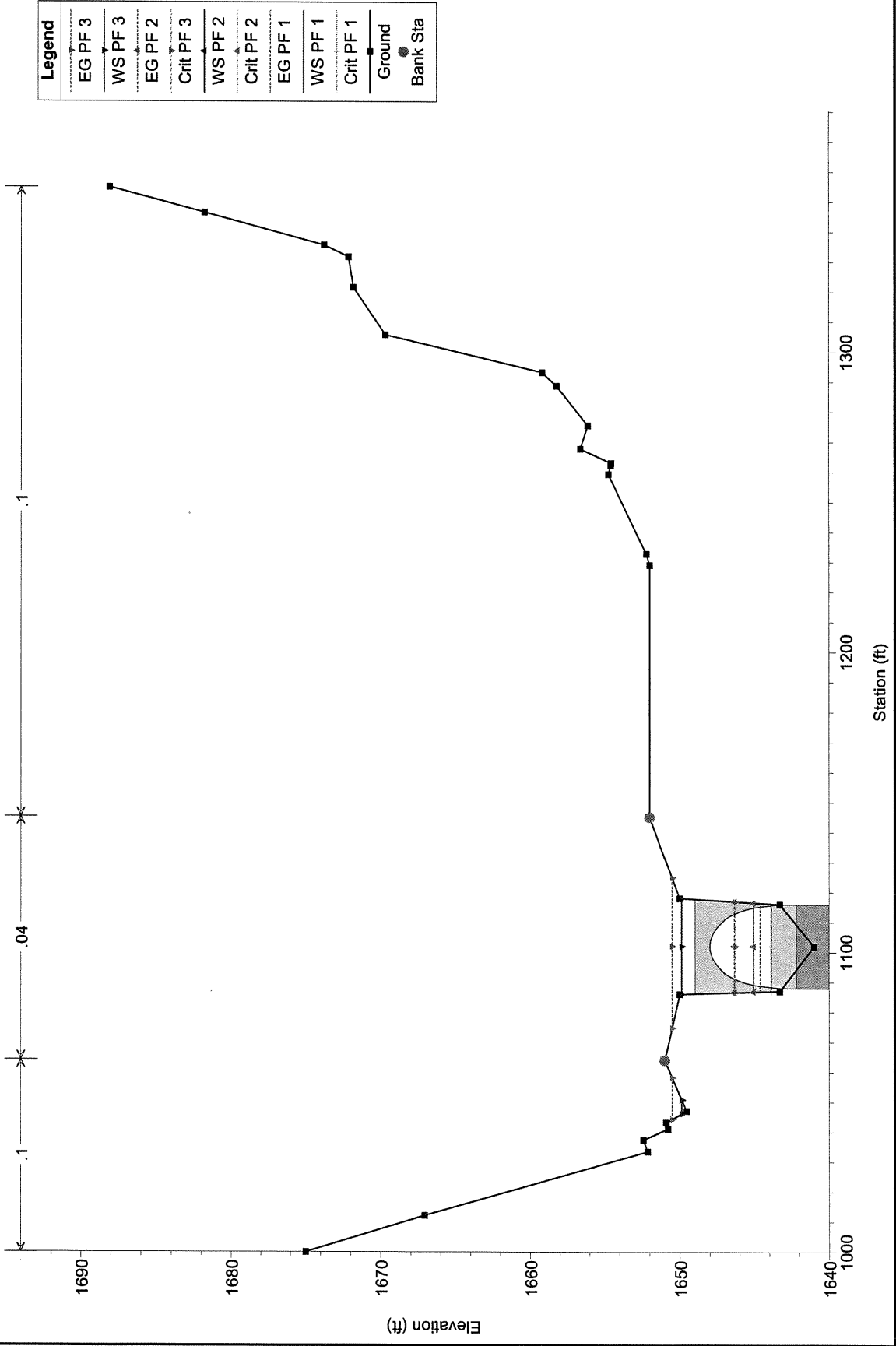


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

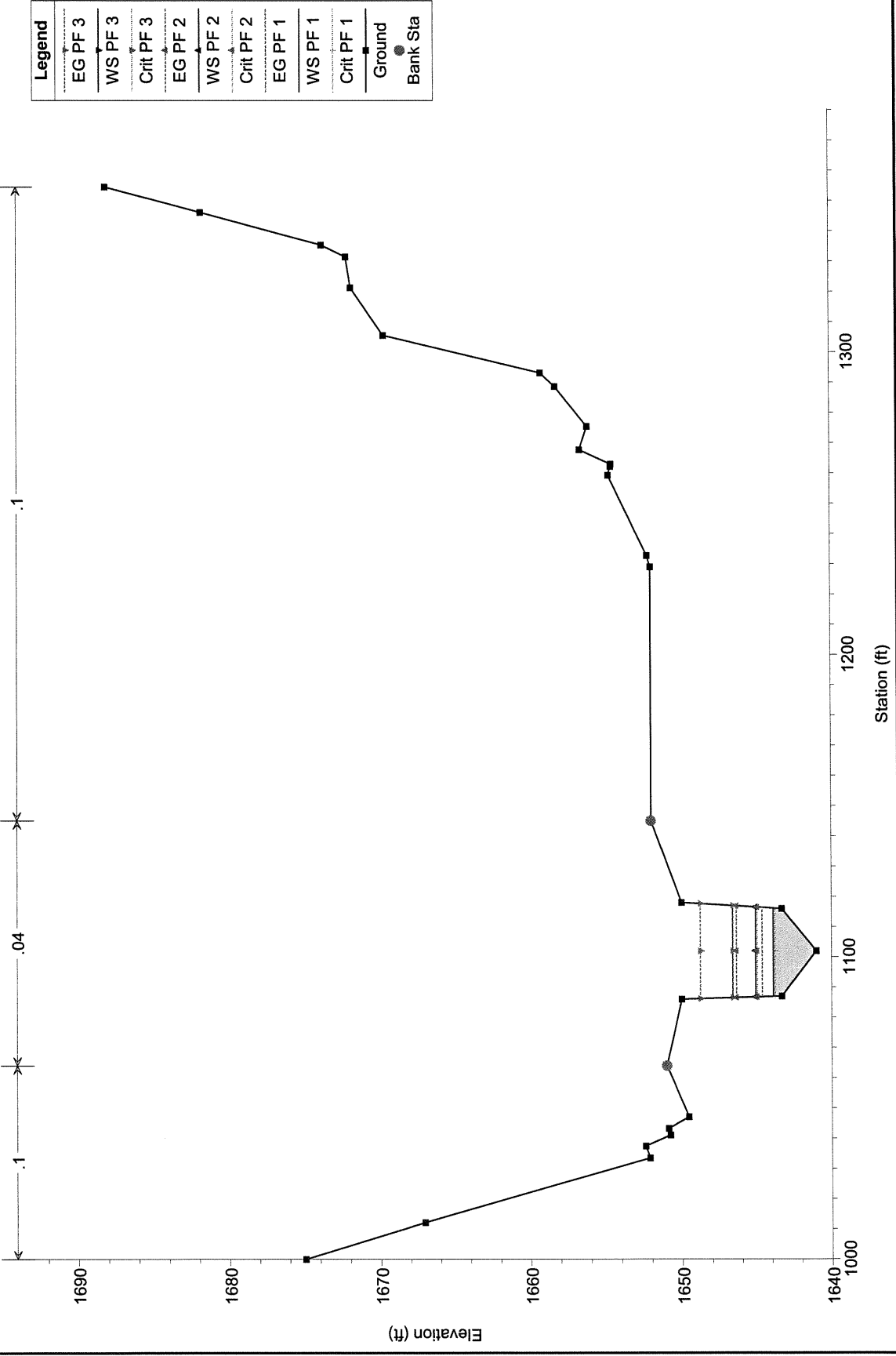
Geom: CULV 8 AND 9 100 YR OVERTOP Flow: JULY 8

RS = 7.5 Culv CULVERT 8



1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM
 Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8
 RS = 7 SECTION 7 JUST DS CULV 8

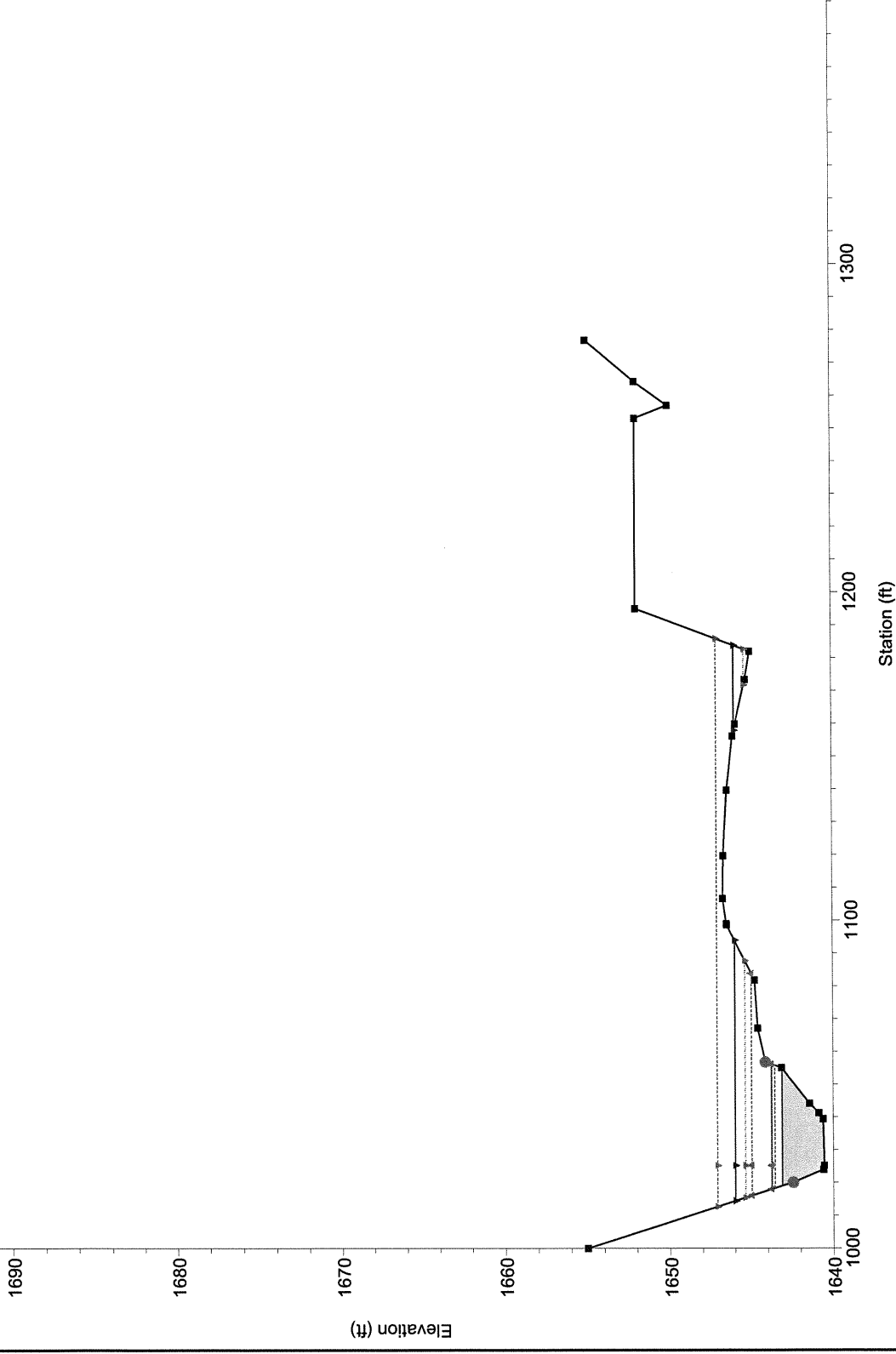


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM
 Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8
 RS = 6 SECTION 6 DOWNSTREAM AT END OF EXPANSION FOR CULV 8



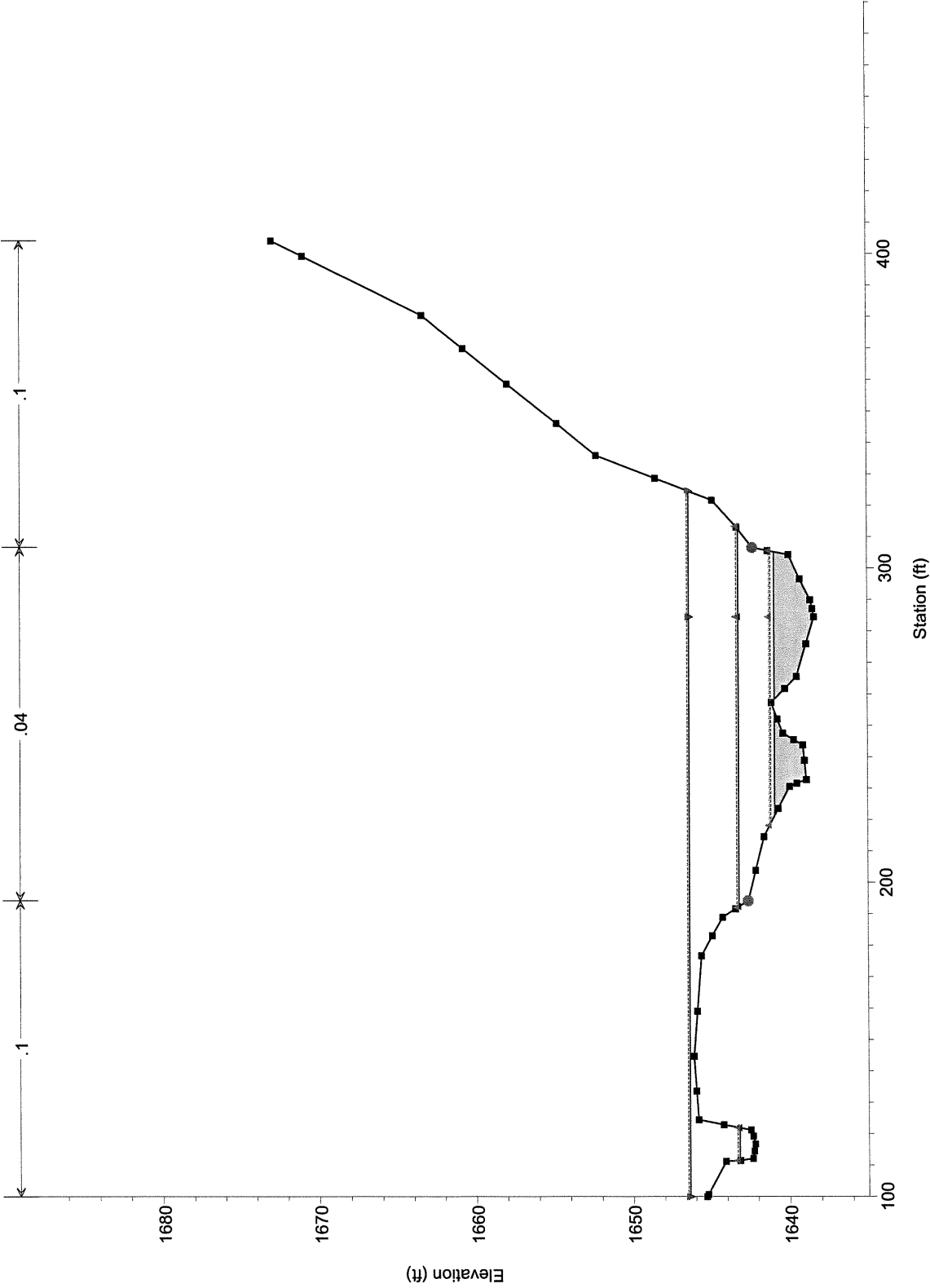
Legend	
EG PF 3	—
WS PF 3	—
Crit PF 3	—
EG PF 2	—
Crit PF 2	—
WS PF 2	—
EG PF 1	—
WS PF 1	—
Ground	●
Bank Sta	●



1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8
 RS = 5 SECTION 5 (9A) BTWN CULV 8 AND 9, US CONFL CREEK

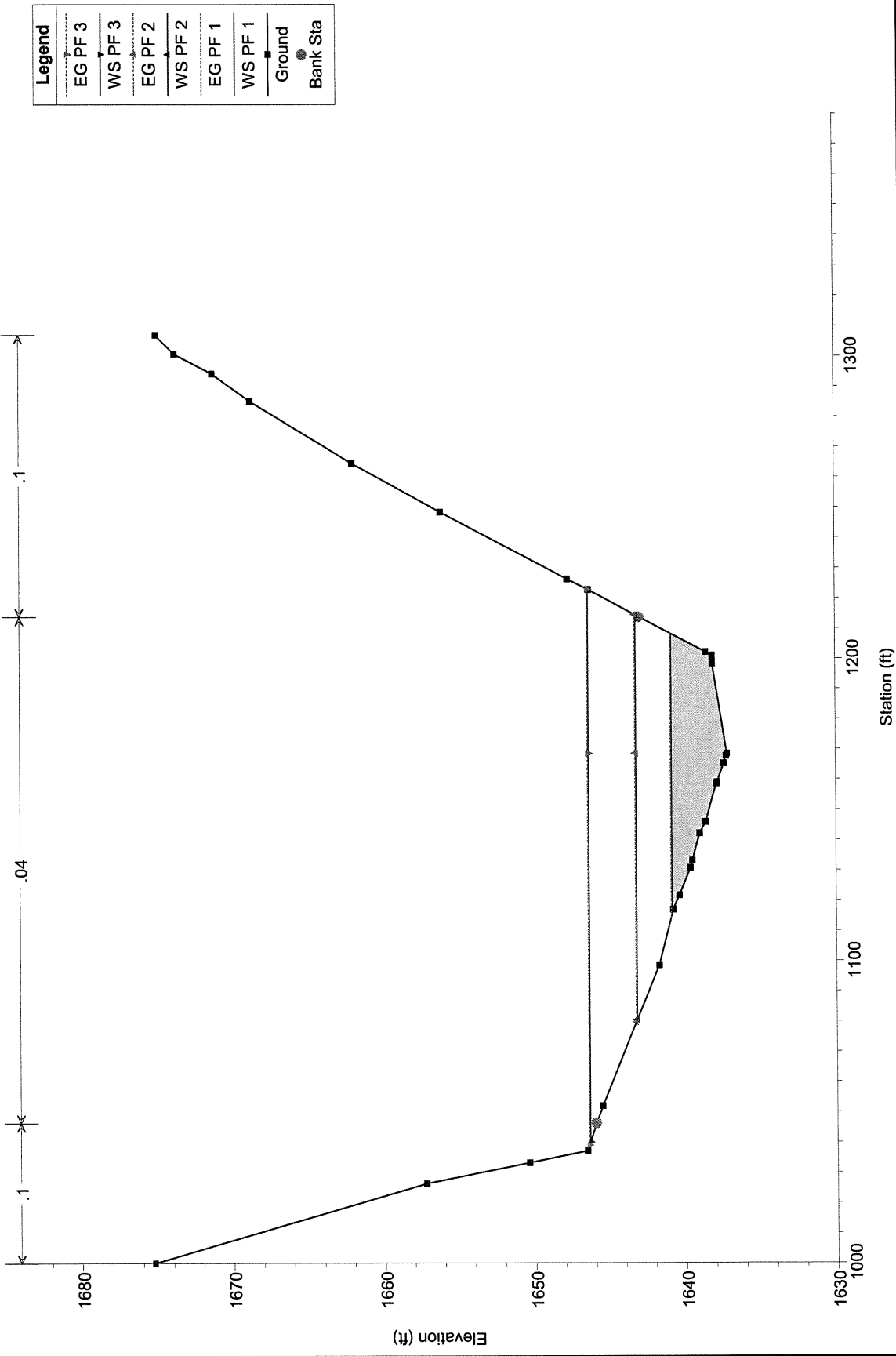


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 4 SECTION 4 BEG CONTR CULV 9

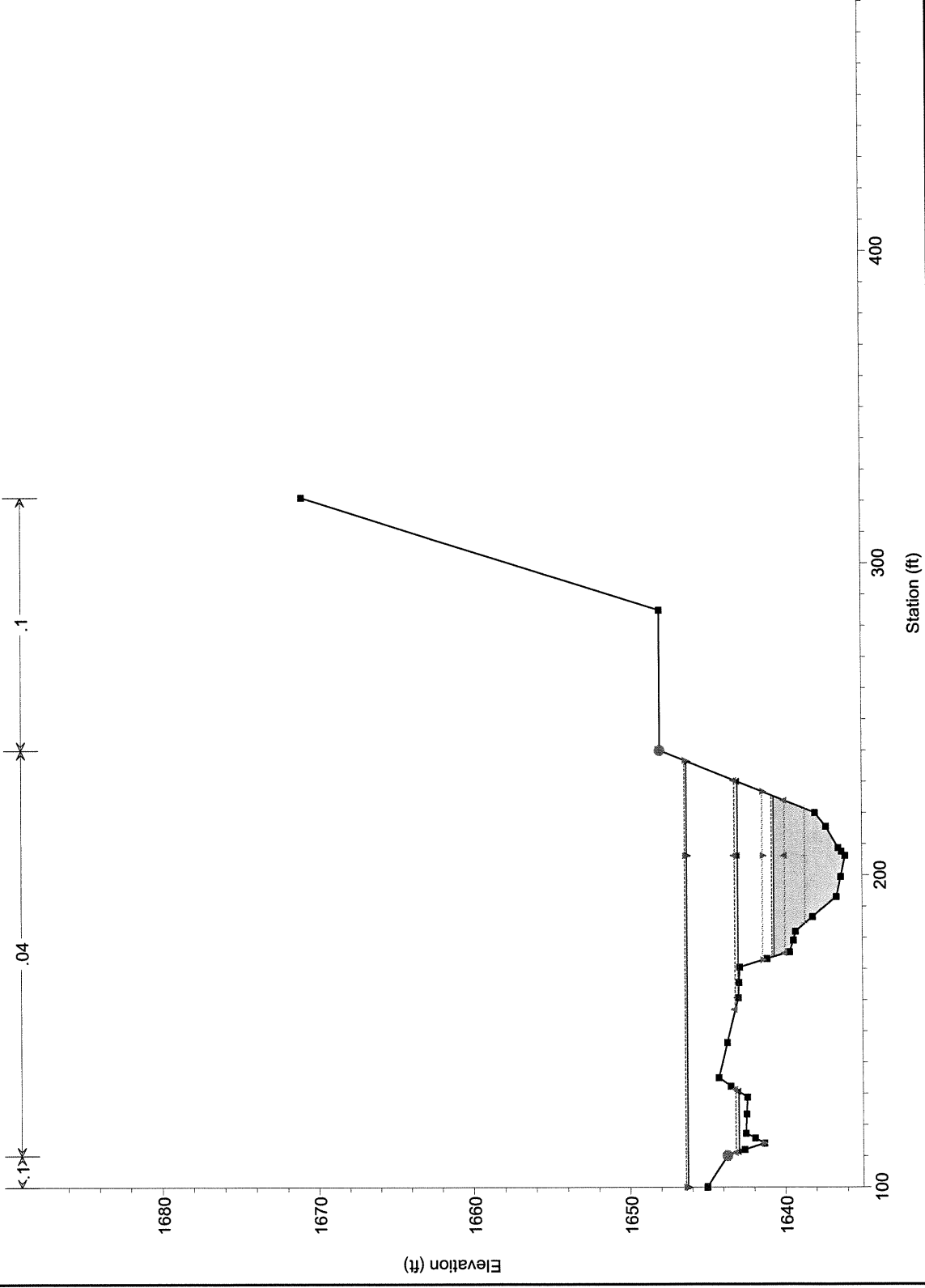


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 3 SECTION 3 (9B), JUST US CULV 9



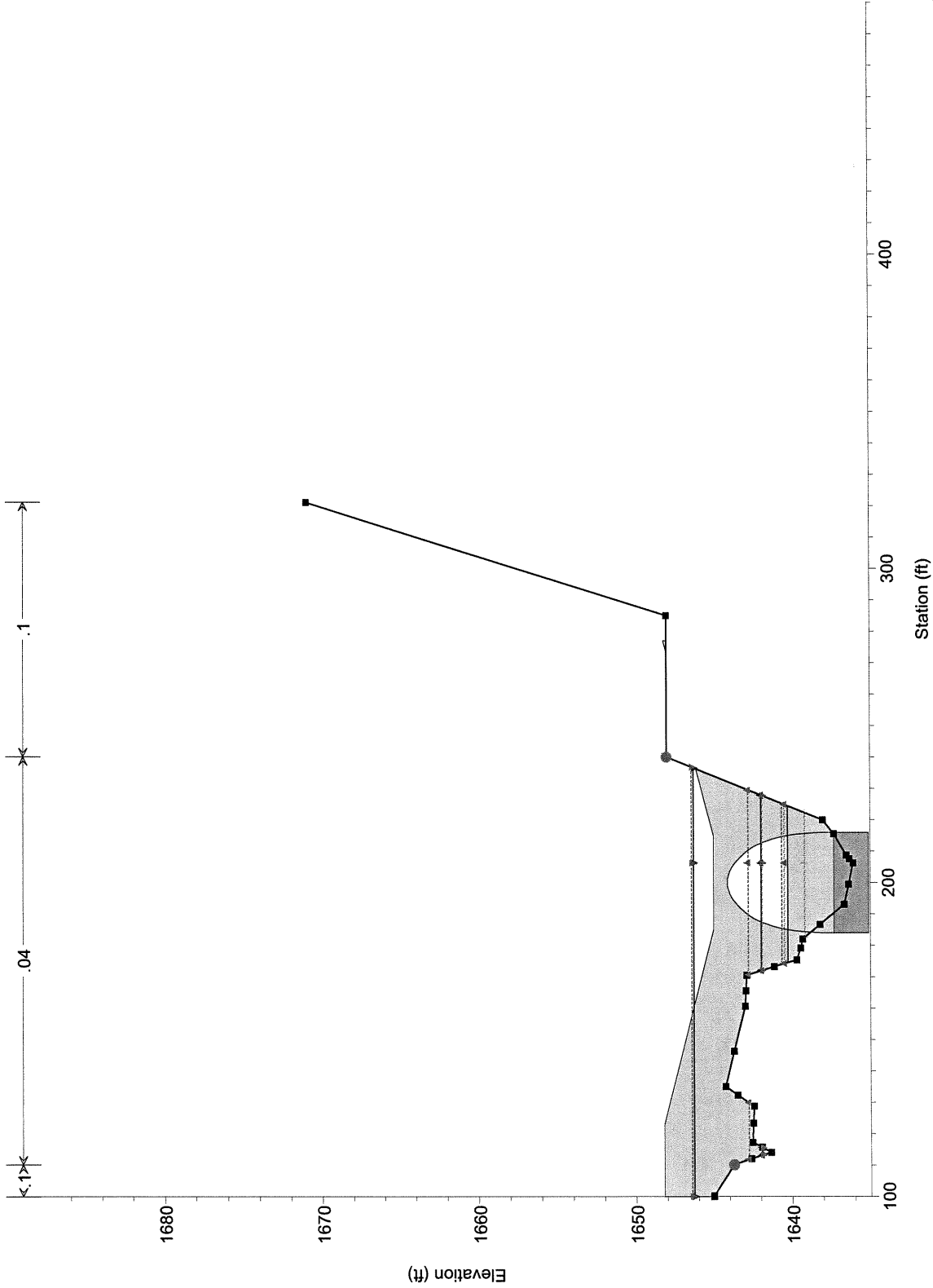
Legend	
EG PF 3	→
WS PF 3	→
EG PF 2	→
WS PF 2	→
Crit PF 3	→
EG PF 1	→
WS PF 1	→
Crit PF 2	→
Crit PF 1	→
Ground	—■—
Bank Sta	●

1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 2.5 Culv CULVERT 9



1 in Horiz. = 50 ft 1 in Vert. = 10 ft

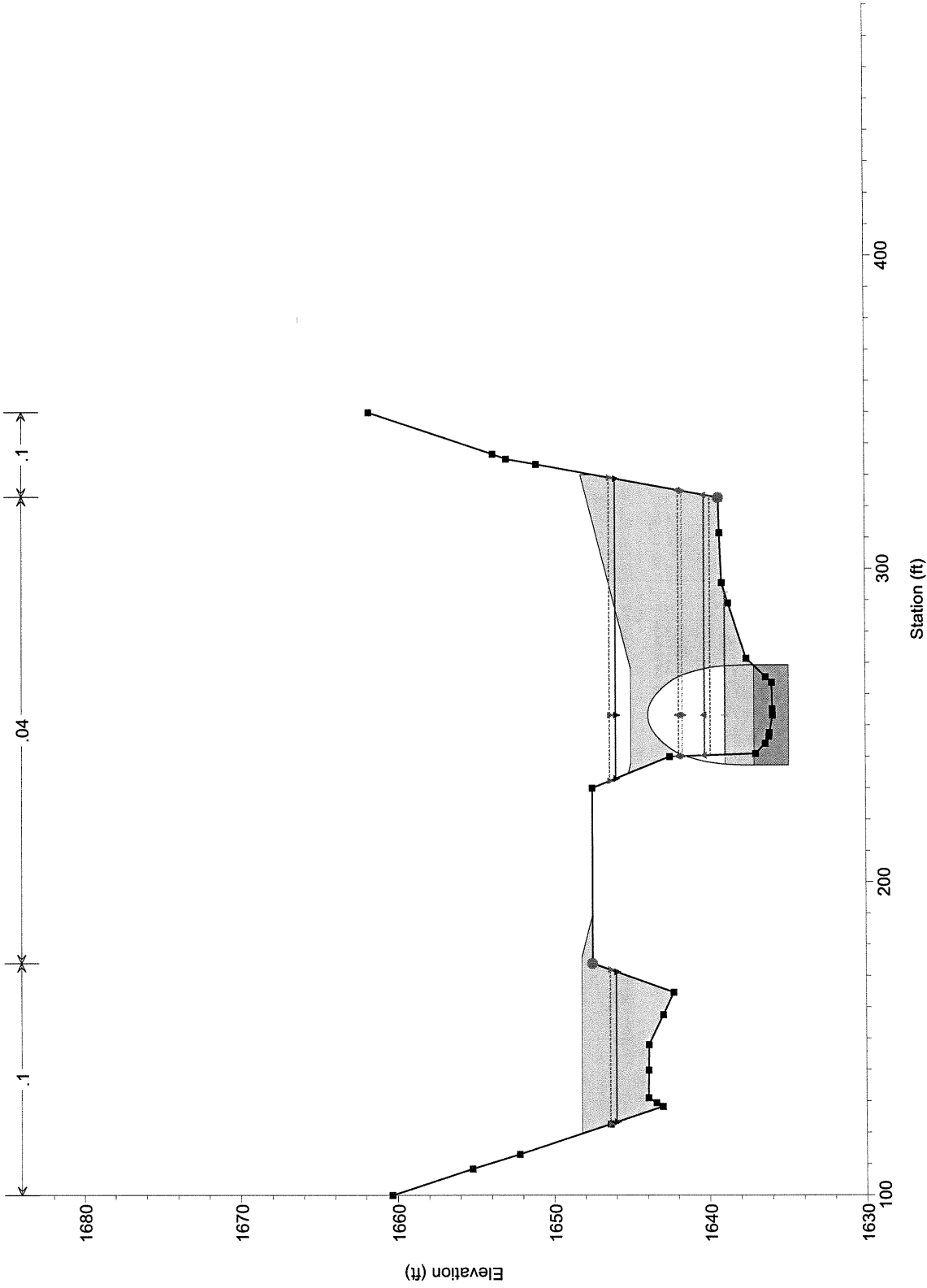
R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 2.5 Culv CULVERT 9



Legend	
EG PF 3	—
WS PF 3	—
EG PF 2	—
Crit PF 3	—
Crit PF 2	—
WS PF 2	—
EG PF 1	—
WS PF 1	—
Crit PF 1	—
Ground	—
Bank Sta	●



1 in Horiz. = 50 ft 1 in Vert. = 10 ft

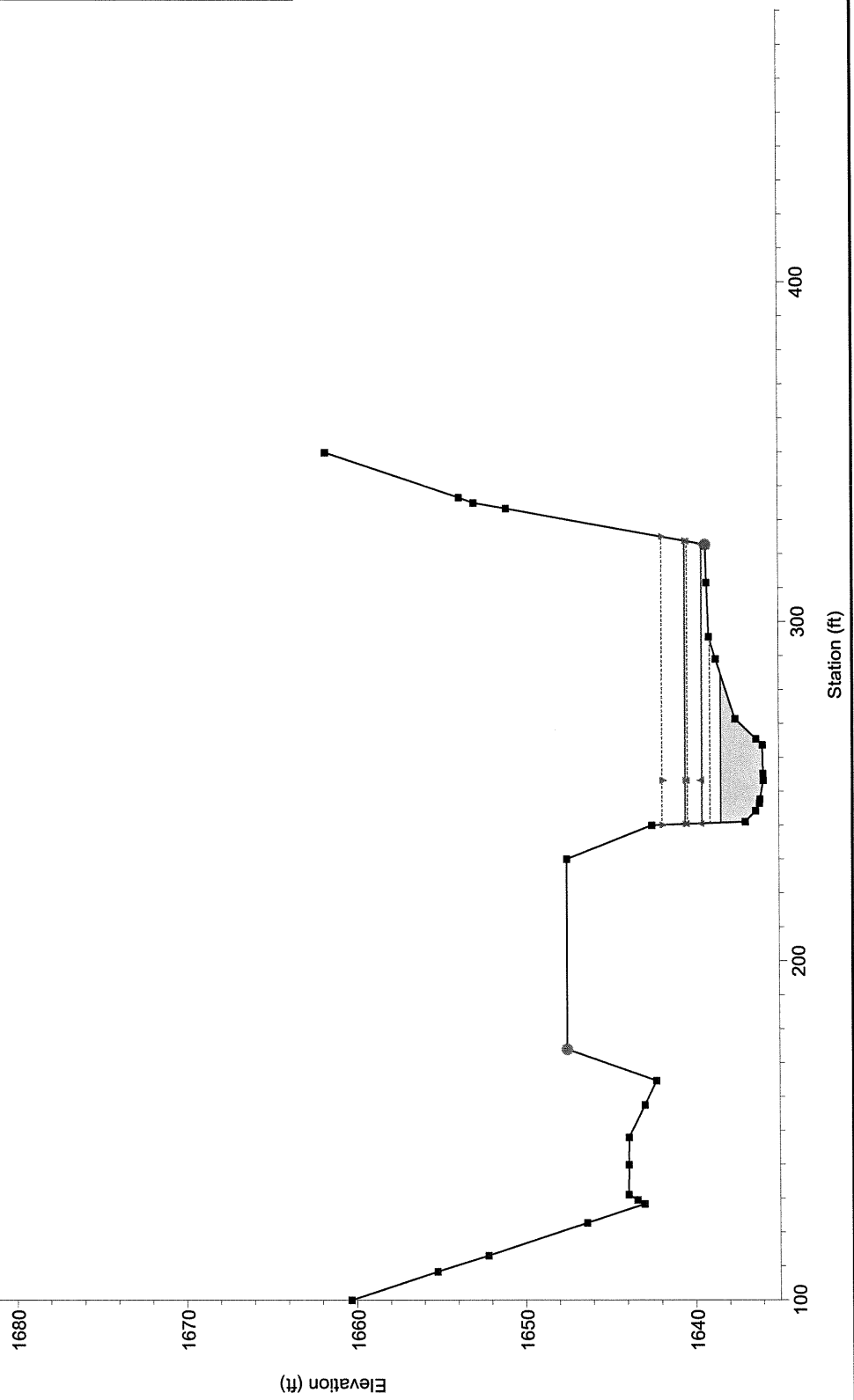
R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 2 SECTION 2 (9D), JUST DS CULV 9



Legend	
EG PF 3	—
WS PF 3	—
Crit PF 3	—
EG PF 2	—
Crit PF 2	—
WS PF 2	—
EG PF 1	—
WS PF 1	—
Ground	●
Bank Sta	●

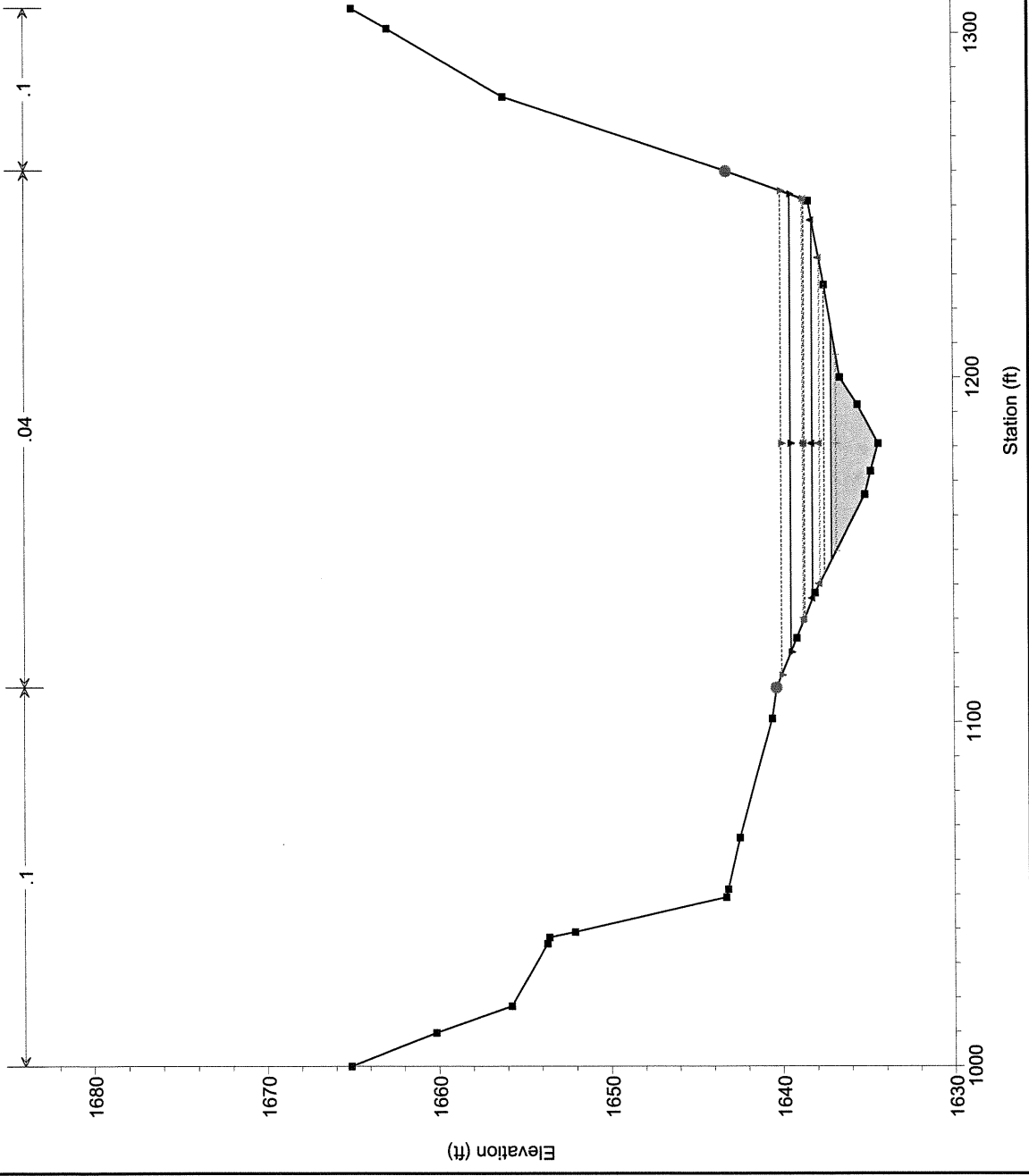


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 1 SECTION 1 END OF EXPANSION CULV 9



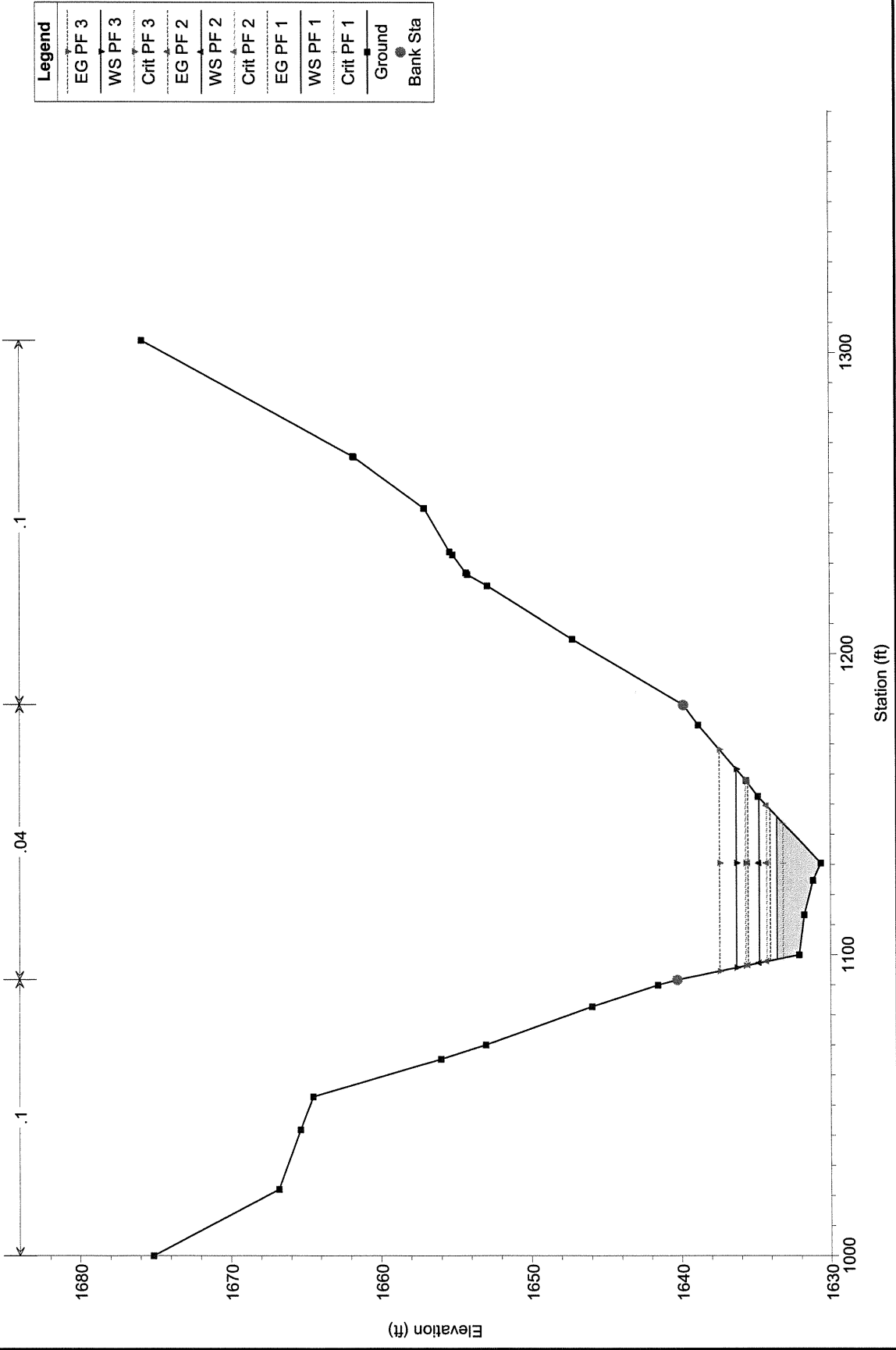
Legend	
EG PF 3	EG PF 3
WS PF 3	WS PF 3
Crit PF 3	Crit PF 3
EG PF 2	EG PF 2
WS PF 2	WS PF 2
Crit PF 2	Crit PF 2
EG PF 1	EG PF 1
WS PF 1	WS PF 1
Crit PF 1	Crit PF 1
Ground	Ground
Bank Sta	Bank Sta

1 in Horiz. = 50 ft 1 in Vert. = 10 ft

R07030 CULV 8 & 9 Plan: Plan 07 7/14/2008 4:05:19 PM

Geom: CULV 8 AND 9 100 YR OVERTOP Flow: CULV 8

RS = 0.5



1 in Horiz. = 50 ft 1 in Vert. = 10 ft