

HEC-RAS Plan: ALT A River: CAVE CREEK Reach: UPPER

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
UPPER	4	PF 1	320.00	1705.60	1709.36	1708.34	1709.71	0.005178	4.77	67.08	26.51	0.53	
UPPER	4	PF 2	722.00	1705.60	1711.39	1709.71	1711.89	0.004266	5.66	127.45	32.92	0.51	
UPPER	4	PF 3	1459.00	1705.60	1714.57	1711.47	1715.10	0.002784	5.89	247.87	46.36	0.43	
UPPER	3	PF 1	320.00	1705.40	1709.24	1708.14	1709.52	0.004056	4.24	75.48	28.07	0.46	
UPPER	3	PF 2	722.00	1705.40	1711.27	1709.29	1711.73	0.003720	5.45	132.49	28.17	0.44	
UPPER	3	PF 3	1459.00	1705.40	1714.48	1710.93	1715.00	0.002491	6.03	326.06	86.99	0.38	
UPPER	2.1	Culvert											
UPPER	2	PF 1	320.00	1703.40	1708.82		1708.93	0.000898	2.58	123.98	28.10	0.22	
UPPER	2	PF 2	722.00	1703.40	1710.71		1710.97	0.001599	4.08	177.01	28.16	0.29	
UPPER	2	PF 3	1459.00	1703.40	1712.83		1713.41	0.002720	6.15	243.94	43.69	0.37	
UPPER	1	PF 1	320.00	1704.52	1707.70	1707.70	1708.69	0.020628	8.02	39.92	20.42	1.01	
UPPER	1	PF 2	722.00	1704.52	1709.19	1709.19	1710.63	0.018436	9.61	75.13	26.62	1.01	
UPPER	1	PF 3	1459.00	1704.52	1711.01	1711.01	1712.96	0.016871	11.19	130.41	34.15	1.01	
UPPER	0.5	PF 1	320.00	1698.05	1700.69	1701.03	1701.97	0.039899	9.10	35.18	24.92	1.35	
UPPER	0.5	PF 2	722.00	1698.05	1701.56	1702.33	1703.89	0.046338	12.25	58.95	29.67	1.53	
UPPER	0.5	PF 3	1459.00	1698.05	1702.71	1703.79	1706.06	0.056376	14.67	99.50	44.74	1.73	

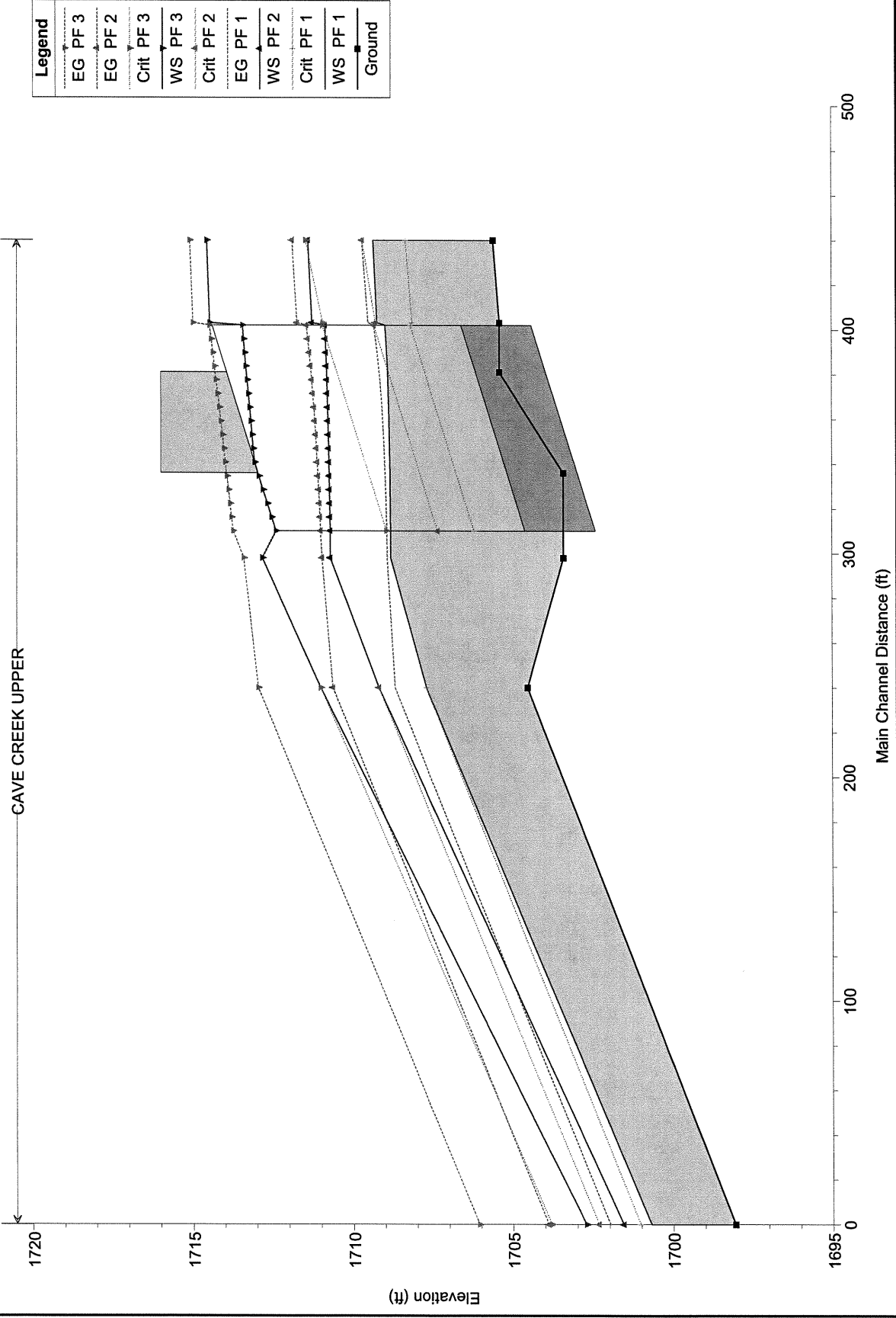
NO CHANGE  
← EXISTING  
CALCULATED

CULVERT SLOPE =  
CHANNEL SLOPE

10/10/20 - 10/10/21  
CULVERT #5  
OPTION 3A: NO OVERTOP  
28' x 10' x 92'

ROADWAY = 1711.6 > WEEL 100 YR = 1714.48

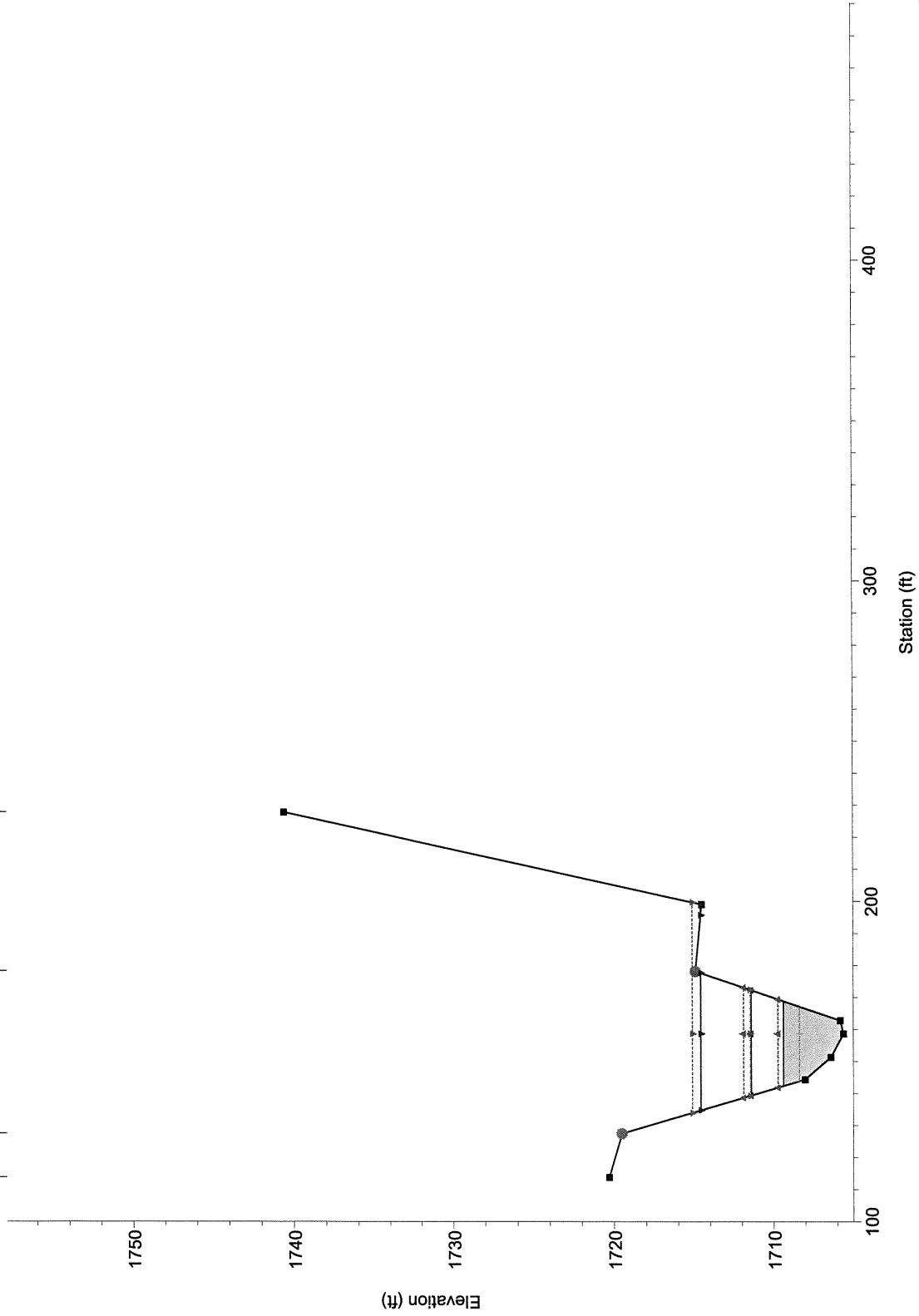
RO7030 HECRAS Plan: Plan 04 7/14/2008 2:49:56 PM  
 Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5



RO7030 HEGRAS Plan: Plan 04 7/14/2008 2:49:56 PM  
 Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5  
 RS = 4 SECTION 5A, BR SECTION 4

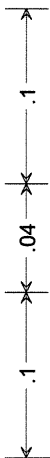


Legend	
EG PF 3	▲
WS PF 3	▬
EG PF 2	▲
Crit PF 3	▬
WS PF 2	▬
EG PF 1	▲
Crit PF 2	▬
WS PF 1	▬
Crit PF 1	▬
Ground	●
Bank Sta	■

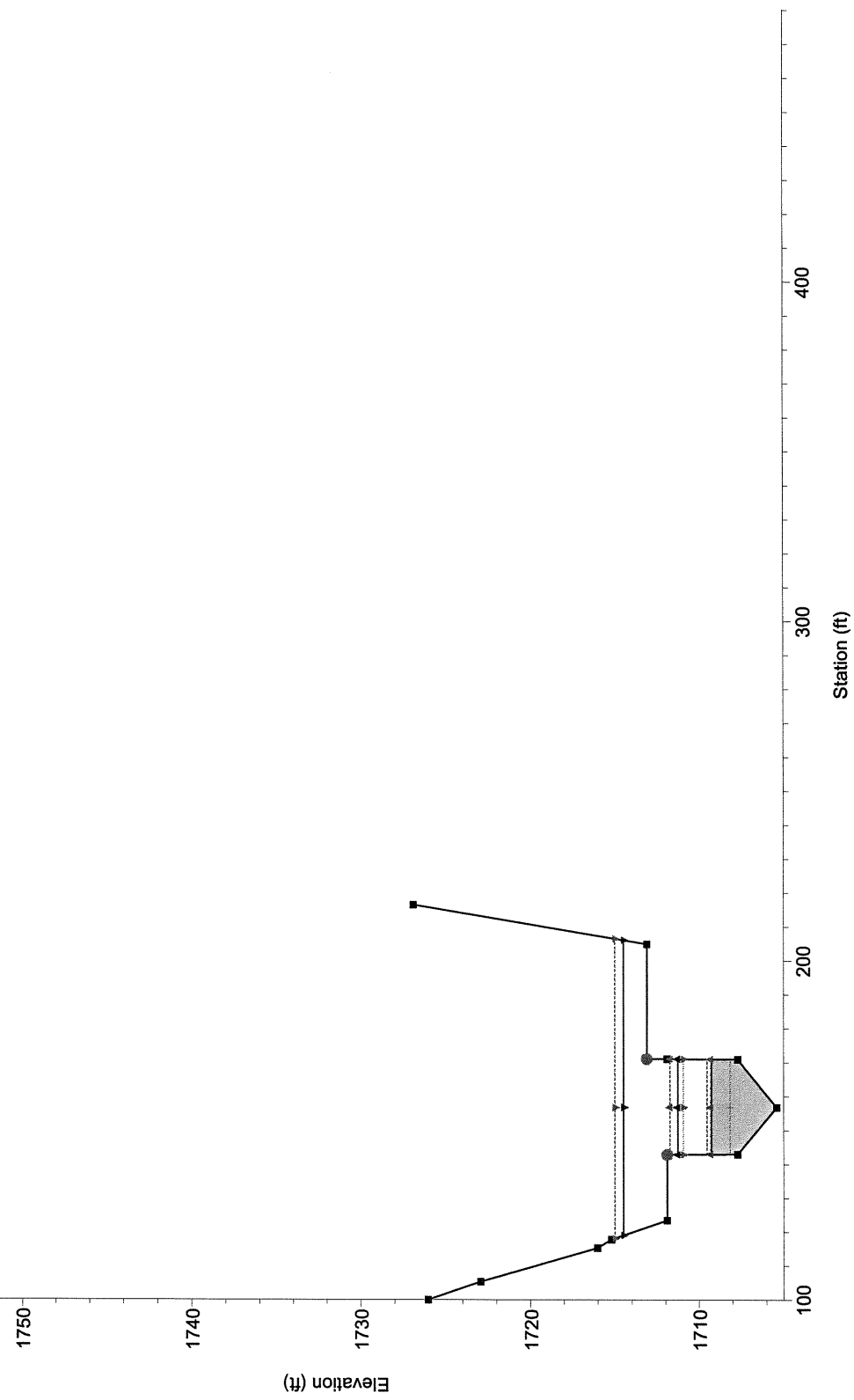


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

RO7030 HECRAS Plan: Plan 04 7/14/2008 2:49:56 PM  
 Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5  
 RS = 3 SECTION ALT 3, BR SECTION 3



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

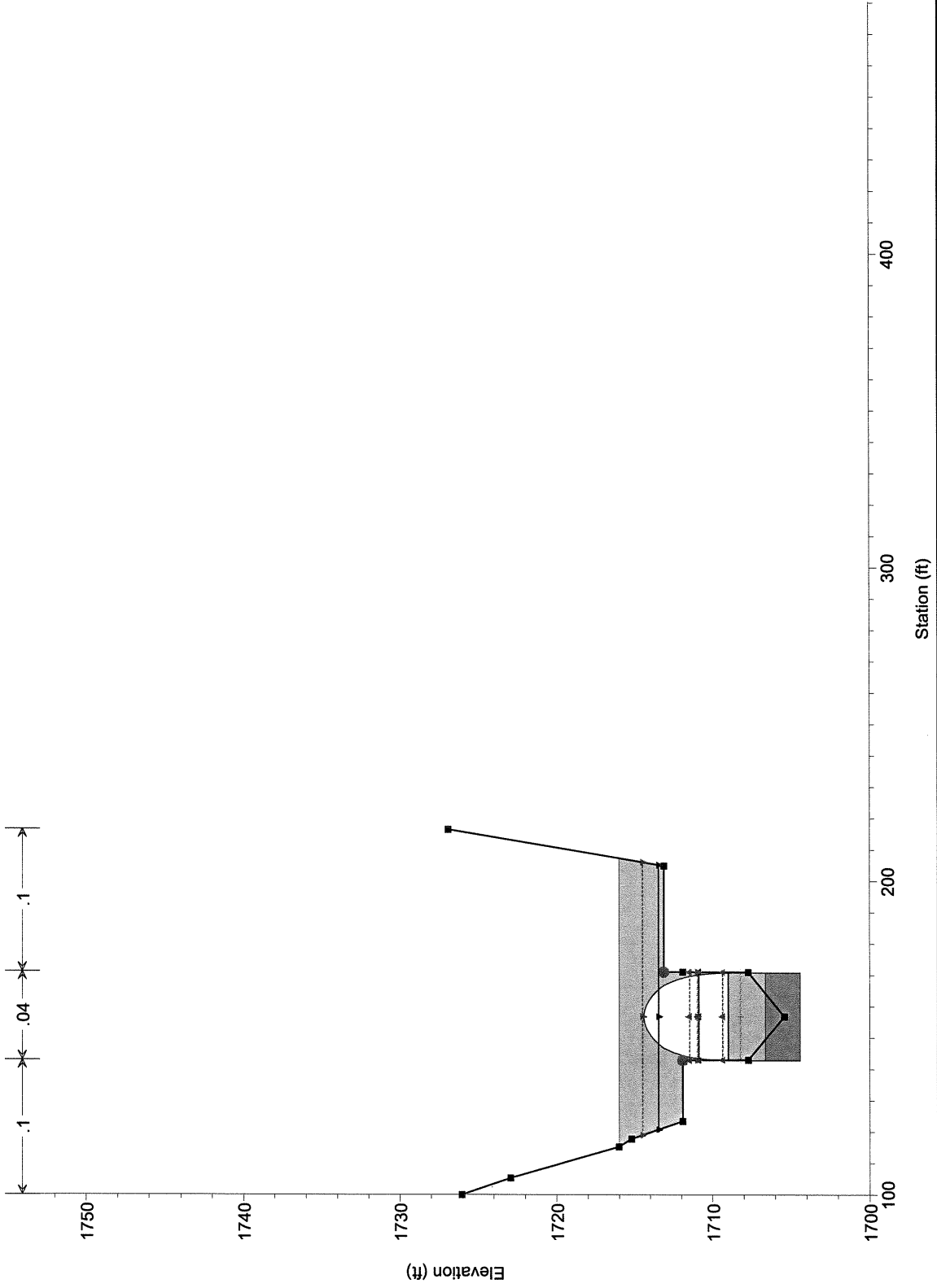


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

RO7030 HEGRAS Plan: Plan 04 7/14/2008 2:49:56 PM

Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5

RS = 2.1 Culv CULV 5 ALT A



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

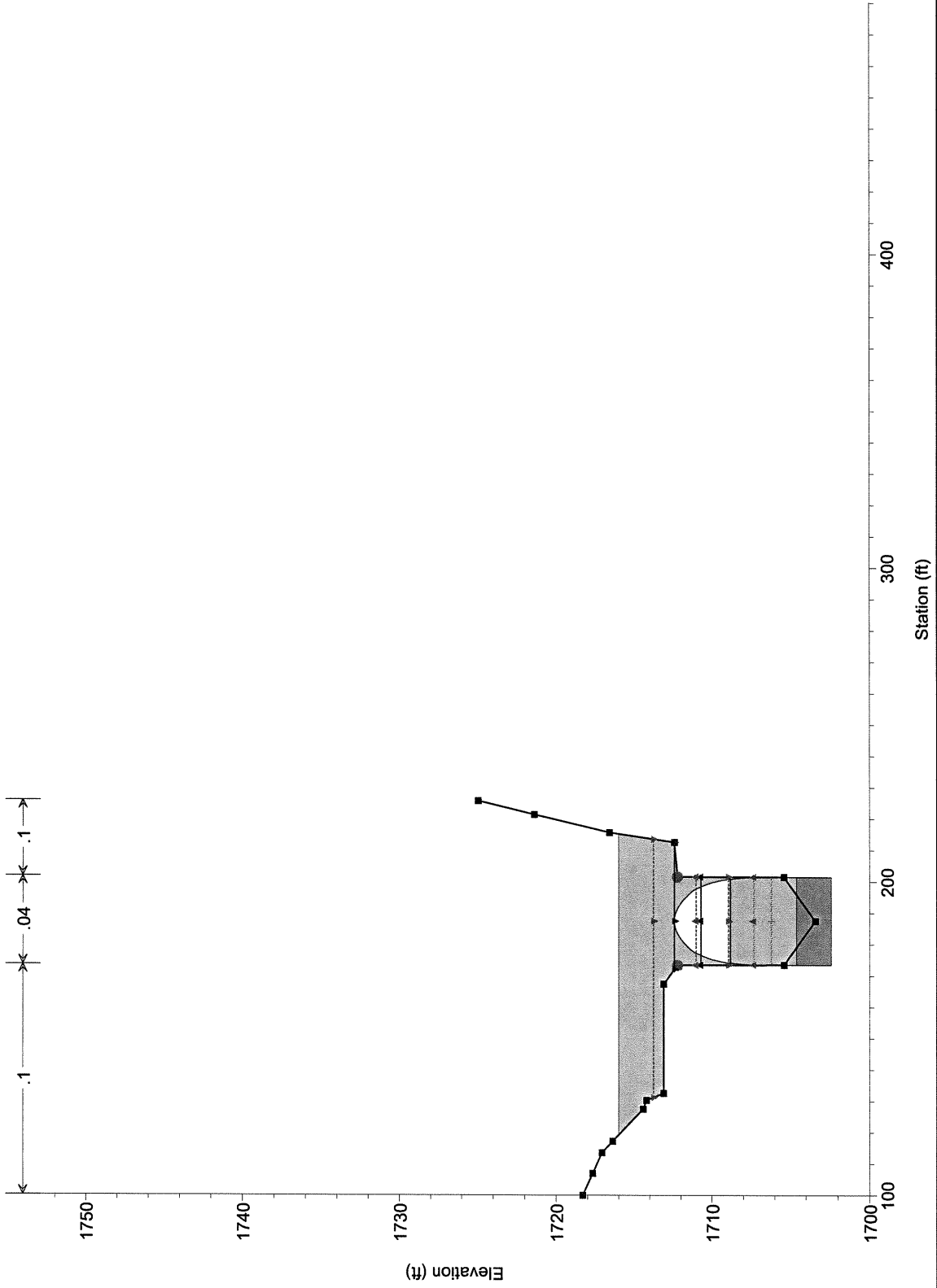
RO7030 HECCRAS Plan: Plan 04 7/14/2008 2:49:56 PM

Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5

RS = 2.1 Cuv CULV 5 ALT A

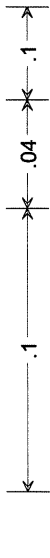


Legend	
EG PF 3	→
WS PF 3	→
EG PF 2	→
WS PF 2	→
Crit PF 3	→
EG PF 1	→
WS PF 1	→
Crit PF 2	→
Crit PF 1	→
Ground	●
Bank Sta	●

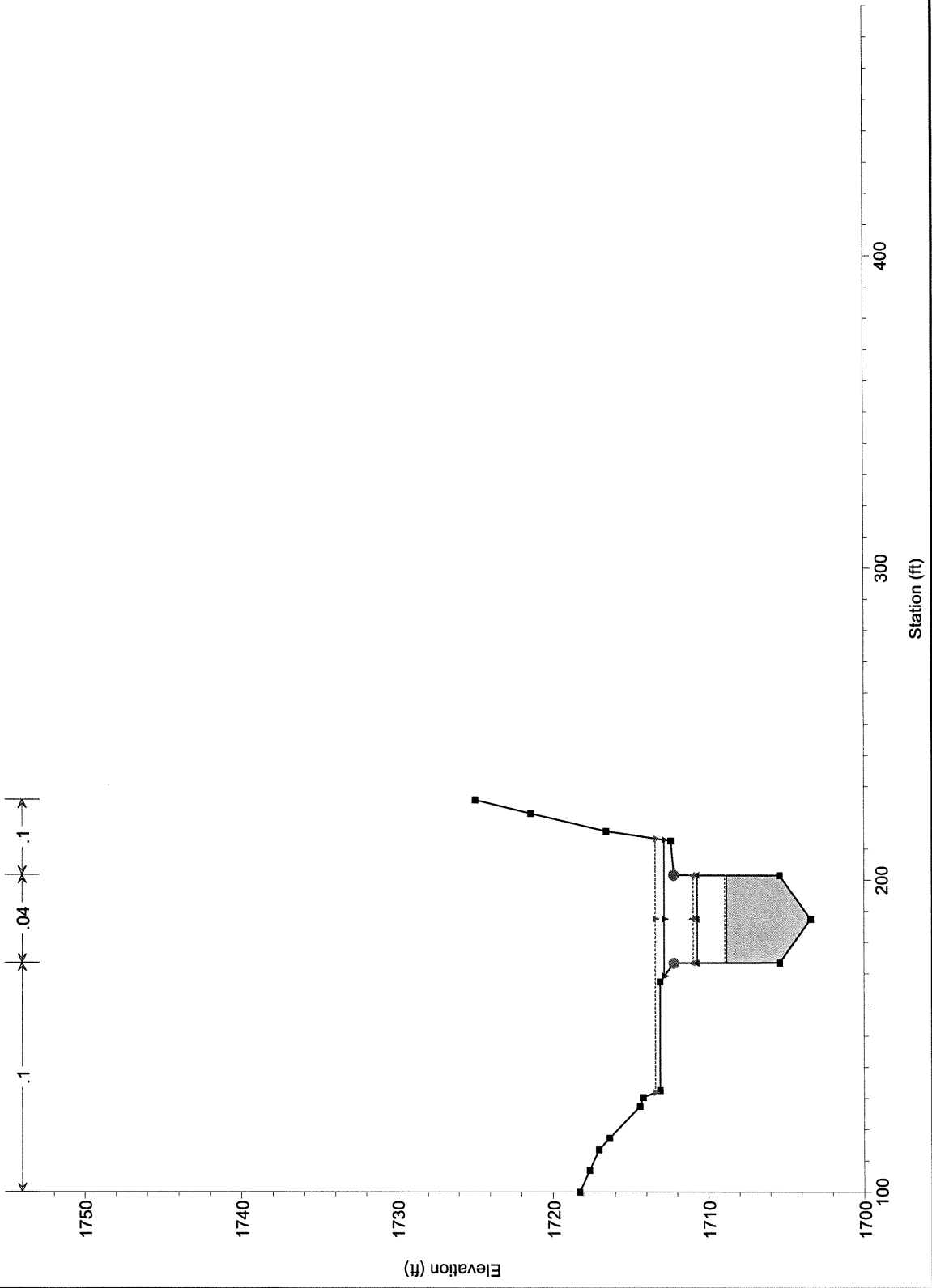


1 in Horiz. = 50 ft 1 in Vert. = 10 ft

RO7030 HECRAS Plan: Plan 04 7/14/2008 2:49:56 PM  
 Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5  
 RS = 2 SECTION 5C, BRIDGE SECTION 2

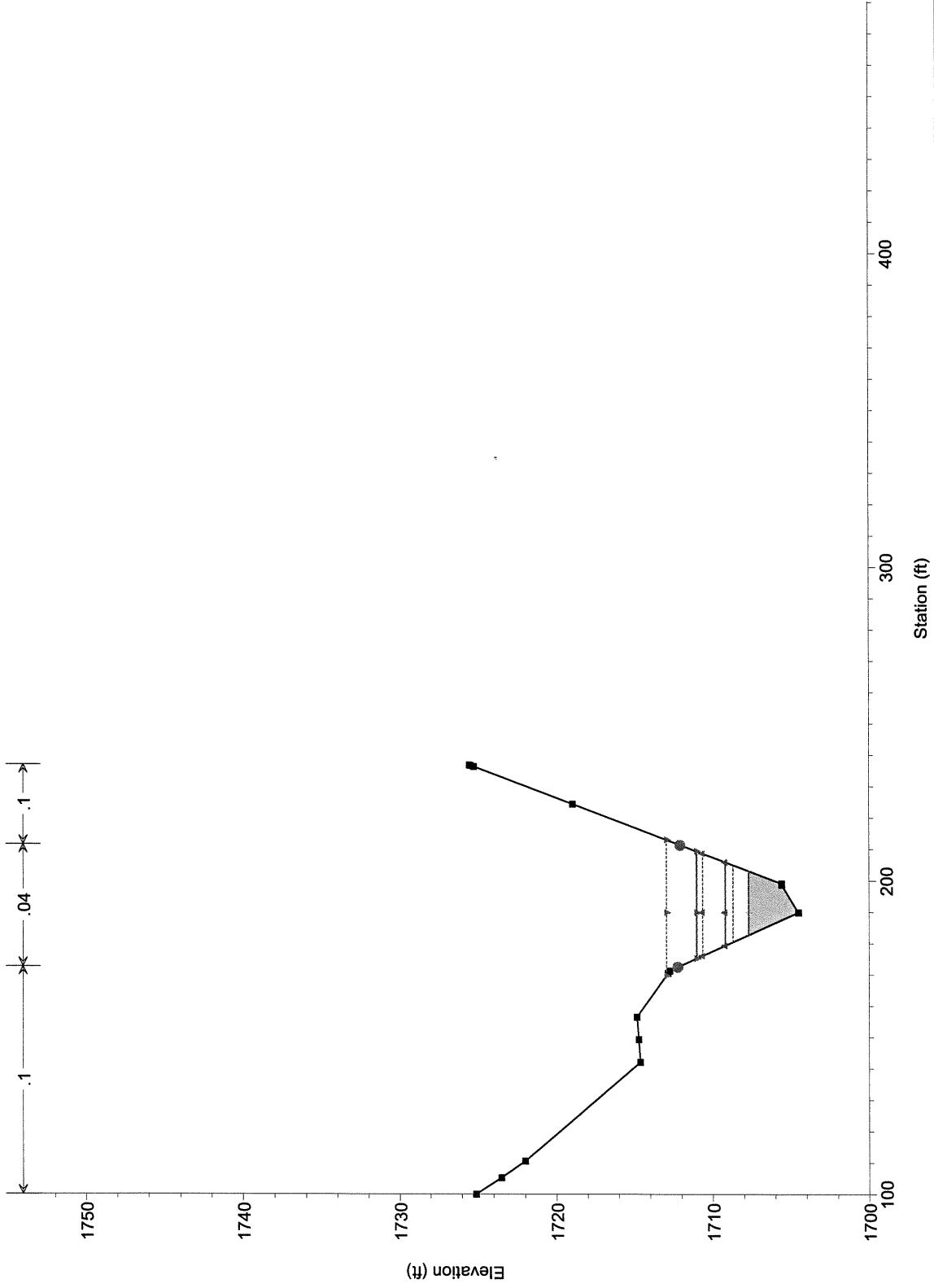


Legend	
EG PF 3	→
WS PF 3	→
EG PF 2	→
WS PF 2	→
EG PF 1	→
WS PF 1	→
Ground	—
Bank Sta	●



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

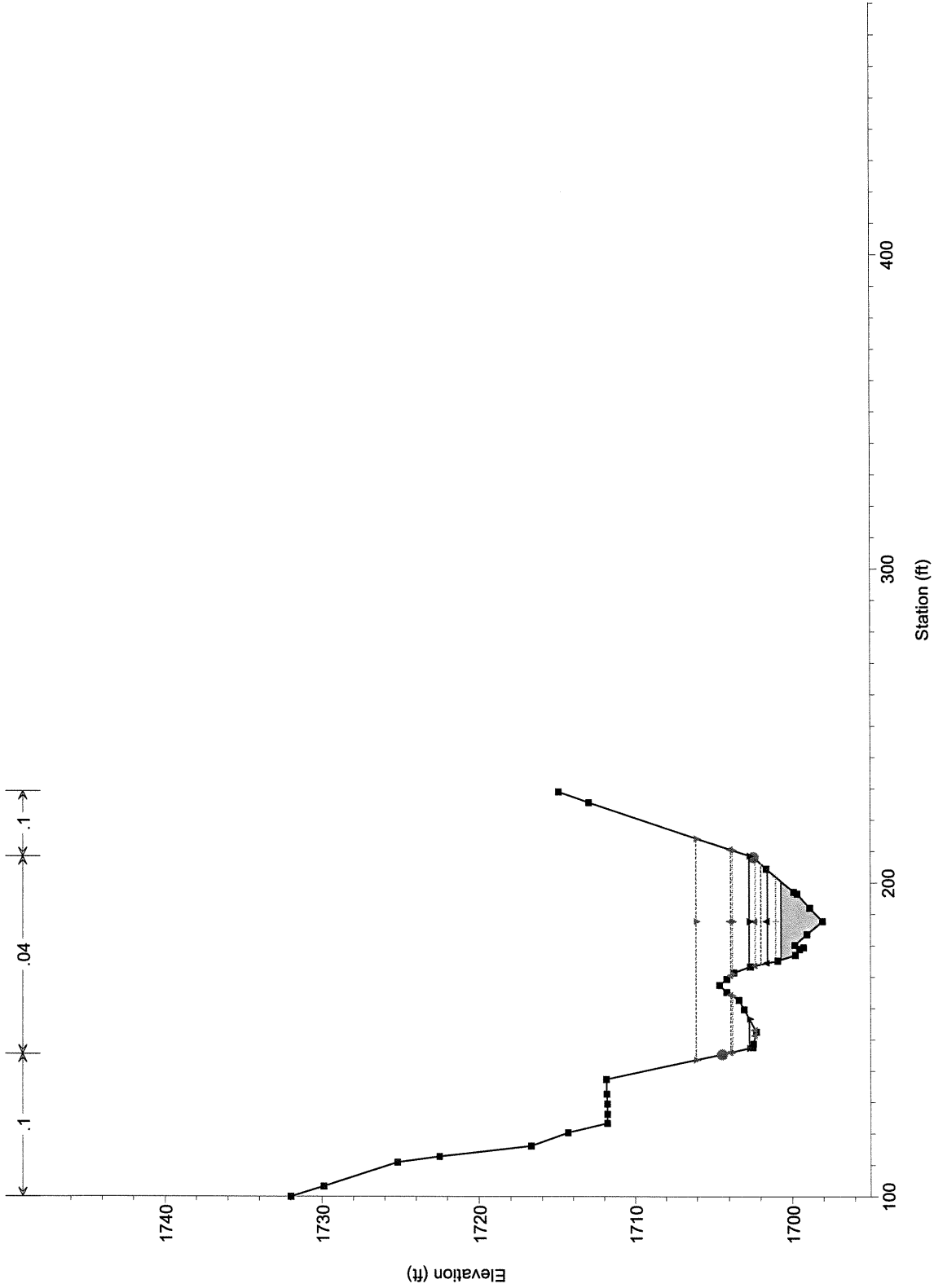
R07030 HECRAS Plan: Plan 04 7/14/2008 2:49:56 PM  
 Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5  
 RS = 1 COPY OF 5C LOWERED, BRIDGE SECTION 1



RO7030 HECRAS Plan: Plan 04 7/14/2008 2:49:56 PM

Geom: R07030 PRELIM NO OVERTOP CULV 5 Flow: CULV 5

RS = 0.5 SECTION .05 DS FROM SECTION 1



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