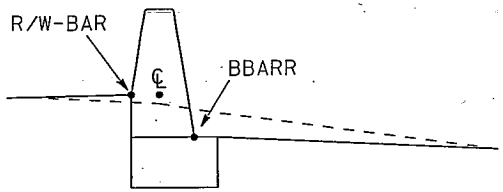
SLOPE STAKE NOTES - D6

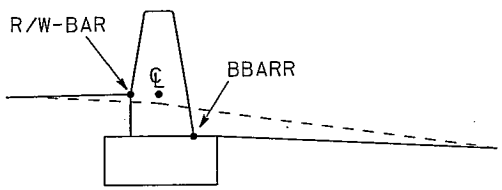
August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

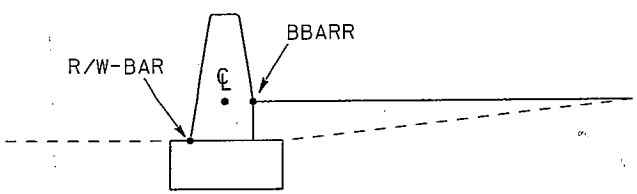
Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet



Sta 15+75.00 TO 17+50.00



Sta 17+50.00 TO 18+75.00
Sta 44+75.00 TO 46+50.00



Sta 19+50.00 TO 27+25.00
Sta 46+50.00 TO 48+00.00
Sta 61+50.00 TO 64+75.00

Station 15+75.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-1.98	-1.00	0.00	1.11	2.00	9.48	10.48
246.46	246.48	246.48	245.78	245.78	244.89	244.56
-2.20%	0.00%		-1.59:1	0.00%	-11.97%	-3.03:1

Station 16+00.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-2.11	-1.00	0.00	1.11	2.00	8.54	9.54
246.60	246.61	246.61	245.91	245.91	245.11	244.78
-1.43%	0.00%		-1.59:1	0.00%	-12.29%	-3.03:1

Station 16+50.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-2.16	-1.00	0.00	1.11	2.00	7.23	8.23
246.85	246.84	246.84	246.14	246.14	245.59	245.26
0.07%	0.00%		-1.59:1	0.00%	-10.61%	-3.03:1

Station 16+83.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-2.28	-1.00	0.00	1.11	2.00	6.74	7.74
247.01	247.00	247.00	246.30	246.30	245.81	245.48
0.97%	0.00%		-1.59:1	0.00%	-10.23%	-3.03:1

Station 17+00.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-2.34	-1.00	0.00	1.11	2.00	6.58	7.58
247.11	247.08	247.08	246.38	246.38	245.94	245.61
2.27%	0.00%		-1.59:1	0.00%	-9.54%	-3.03:1

Station 17+32.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-2.47	-1.00	0.00	1.11	2.00	6.43	7.43
247.25	247.25	247.25	246.55	246.55	246.23	245.90
-0.01%	0.00%		-1.59:1	0.00%	-7.17%	-3.03:1

SLOPE STAKE NOTES - D6

August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet

Station 17+49.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-3.38	-1.00	0.00	1.11	2.00	5.62	6.62
247.35	247.35	247.35	246.65	246.65	246.39	246.06
0.27%	0.00%		-1.59:1	0.00%	-7.00%	-3.03:1

Station 17+50.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-3.43	-1.00	0.00	1.11	2.00	5.57	6.57
247.36	247.35	247.35	246.65	246.65	246.40	246.07
0.33%	0.00%		-1.59:1	0.00%	-6.99%	-3.03:1

Station 17+72.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-4.69	-1.00	0.00	1.11	2.00	4.47	5.47
247.48	247.47	247.47	246.77	246.77	246.56	246.23
0.09%	0.00%		-1.59:1	0.00%	-8.69%	-3.03:1

Station 18+00.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-5.10	-1.00	0.00	1.11	2.00	4.46	5.46
247.61	247.63	247.63	246.93	246.93	246.79	246.46
-0.38%	0.00%		-1.59:1	0.00%	-5.63%	-3.03:1

Station 18+50.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-6.30	-1.00	0.00	1.07	2.00	4.46	5.46
247.91	247.87	247.87	247.43	247.43	247.31	246.98
0.69%	0.00%		-2.44:1	0.00%	-4.95%	-3.03:1

SLOPE STAKE NOTES - D6

August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet

Station 19+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.63	-2.00	-1.02	0.00	1.00	4.82	5.82
248.48	248.39	248.39	248.39	248.43	248.34	248.01
3.49%	0.00%	0.00%		4.53%	-2.41%	-3.03:1

Station 20+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-2.58	-2.00	-1.06	0.00	1.00	4.87	5.87
248.75	248.69	248.69	248.69	248.98	248.98	248.65
9.87%	0.00%	0.00%		3.38:1	-0.15%	-3.03:1

Station 20+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-9.54	-2.00	-1.10	0.00	1.00	4.83	5.83
248.91	248.95	248.95	248.95	249.54	249.45	249.12
-0.53%	0.00%	0.00%		1.71:1	-2.21%	-3.03:1

Station 20+58.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-9.38	-2.00	-1.11	0.00	1.00	4.84	5.84
248.94	248.99	248.99	248.99	249.62	249.50	249.17
-0.78%	0.00%	0.00%		1.59:1	-3.13%	-3.03:1

Station 20+98.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-5.57	-2.00	-1.15	0.00	1.00	6.83	7.83
249.15	249.20	249.20	249.20	250.06	249.83	249.50
-1.43%	0.00%	0.00%		1.16:1	-3.96%	-3.03:1

Station 21+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-5.47	-2.00	-1.15	0.00	1.00	6.83	7.83
249.16	249.21	249.21	249.21	250.09	249.86	249.53
-1.49%	0.00%	0.00%		1.15:1	-3.95%	-3.03:1

SLOPE STAKE NOTES - D6

August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet

Station 21+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.21	0.00	1.00	6.88	7.88
248.99	249.36	249.36	249.36	250.64	250.48	250.15
-5.50:1	0.00%	0.00%		0.78:1	-2.60%	-3.03:1

Station 22+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.27	0.00	1.00	6.89	7.89
249.29	249.54	249.54	249.54	251.19	251.11	250.78
-12.53%	0.00%	0.00%		0.61:1	-1.24%	-3.03:1

Station 22+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.33	0.00	1.00	6.79	7.79
249.48	249.72	249.72	249.72	251.74	251.45	251.12
-12.17%	0.00%	0.00%		0.50:1	-4.92%	-3.03:1

Station 23+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.39	0.00	1.00	6.87	7.87
249.98	249.90	249.90	249.90	252.29	251.74	251.41
4.16%	0.00%	0.00%		0.42:1	-9.36%	-3.03:1

Station 23+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.40	0.00	1.00	7.16	8.16
250.13	250.06	250.06	250.06	252.50	252.09	251.76
3.08%	0.00%	0.00%		0.41:1	-6.70%	-3.03:1

Station 24+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.41	0.00	1.00	7.33	8.33
250.19	250.23	250.23	250.23	252.71	252.28	251.95
-1.89%	0.00%	0.00%		0.40:1	-6.87%	-3.03:1

SLOPE STAKE NOTES - D6

August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet

Station 24+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.40	0.00	1.00	7.47	8.47
250.54	250.50	250.50	250.50	252.93	252.38	252.05
1.90%	0.00%	0.00%		0.41:1	-8.42%	-3.03:1

Station 25+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.39	0.00	1.00	7.39	8.39
250.71	250.77	250.77	250.77	253.14	252.26	251.93
-3.02%	0.00%	0.00%		0.42:1	-13.70%	-3.03:1

Station 25+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.31	0.00	1.00	7.45	8.45
250.89	250.90	250.90	250.90	252.76	252.16	251.83
-0.59%	0.00%	0.00%		0.54:1	-9.22%	-3.03:1

Station 26+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.23	0.00	1.00	7.62	8.62
251.04	251.02	251.02	251.02	252.38	251.85	251.52
0.98%	0.00%	0.00%		0.74:1	-8.00%	-3.03:1

Station 26+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.14	0.00	1.00	7.95	8.95
251.07	251.18	251.18	251.18	252.00	251.56	251.23
-5.25%	0.00%	0.00%		1.21:1	-6.37%	-3.03:1

Station 27+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.06	0.00	1.00	8.48	9.48
251.30	251.33	251.33	251.33	251.62	251.24	250.91
-1.25%	0.00%	0.00%		3.41:1	-5.12%	-3.03:1

SLOPE STAKE NOTES - D6

August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet

Station 27+25.00 Surface STAKE

CP	EP	R/W-BAR	CL	BAR	EP	HP	TDIKE	ES
-4.00	-2.00	-1.00	0.00	1.00	2.00	3.00	8.33	9.33
251.49	251.43	251.43	251.43	251.43	251.43	251.43	251.15	250.82
3.02%	0.00%	0.00%		0.00%	0.00%	0.00%	-5.29%	-3.03:1

Station 44+75.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-5.00	-1.00	0.00	1.00	2.00	8.79	9.79
278.82	278.88	278.88	278.87	278.87	276.06	275.73
-1.49%	0.00%		-0.69%	0.00%	-2.42:1	-3.03:1

Station 45+00.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-5.00	-1.00	0.00	1.24	2.00	7.62	8.62
278.79	278.79	278.79	277.29	277.29	276.67	276.34
-0.02%	0.00%		-0.83:1	0.00%	-10.96%	-3.03:1

Station 45+50.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-5.00	-1.00	0.00	1.16	2.00	5.74	6.74
279.07	279.11	279.11	278.12	278.12	277.88	277.55
-1.11%	0.00%		-1.17:1	0.00%	-6.62%	-3.03:1

Station 46+00.00 Surface STAKE

CP	R/W-BAR	CL	BBARR	EP	TDIKE	ES
-5.00	-1.00	0.00	1.08	2.00	4.65	5.65
279.44	279.44	279.44	278.96	278.96	278.80	278.47
0.02%	0.00%		-2.24:1	0.00%	-5.92%	-3.03:1

SLOPE STAKE NOTES - D6

August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet

Station 46+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-5.00	-2.00	-1.01	0.00	1.00	4.43	5.43
279.98	280.07	280.07	280.07	280.07	279.88	279.55
-2.88%	0.00%	0.00%		0.09%	-5.40%	-3.03:1

Station 47+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-5.00	-2.00	-1.17	0.00	1.00	8.08	9.08
280.61	280.70	280.70	280.70	281.70	281.02	280.69
-2.82%	0.00%	0.00%		1.00:1	-9.49%	-3.03:1

Station 47+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-5.00	-2.00	-1.17	0.00	1.00	9.35	10.35
281.45	281.52	281.52	281.52	282.52	281.91	281.58
-2.36%	0.00%	0.00%		1.00:1	-7.35%	-3.03:1

Station 48+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-5.00	-2.00	-1.17	0.00	1.00	11.53	12.53
282.83	282.92	282.92	282.92	283.92	282.75	282.42
-2.97%	0.00%	0.00%		1.00:1	-11.10%	-3.03:1

Station 61+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.00	0.00	1.00	17.18	18.18
298.61	298.73	298.73	298.73	298.75	298.33	298.00
-5.95%	0.00%	0.00%		2.49%	-2.58%	-3.03:1

Station 62+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.14	0.00	1.00	17.29	18.29
298.18	298.13	298.13	298.13	298.98	298.41	298.08

SLOPE STAKE NOTES - D6

August 2, 2011

Design Chain: D6
Station Range: 15+75.00 To 64+75.00

Co/Rte/PM: SD/78/3.5-5.9
Contract No: 294504
Project Units: US Survey Feet

2.54%	0.00%	0.00%		1.18:1	-3.49%	-3.03:1

Station 62+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.16	0.00	1.00	17.30	18.30
297.92	297.99	297.99	297.99	298.99	298.58	298.25
-3.66%	0.00%	0.00%		1.00:1	-2.52%	-3.03:1

Station 63+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.18	0.00	1.00	17.42	18.42
297.66	297.86	297.86	297.86	299.00	298.66	298.33
-9.86%	0.00%	0.00%		0.88:1	-2.09%	-3.03:1

Station 63+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.19	0.00	1.00	17.32	18.32
297.58	297.80	297.80	297.80	299.00	298.64	298.31
-11.29%	0.00%	0.00%		0.83:1	-2.18%	-3.03:1

Station 64+00.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.16	0.00	1.00	17.34	18.34
297.94	298.00	298.00	298.00	299.00	298.49	298.16
-2.98%	0.00%	0.00%		1.00:1	-3.11%	-3.03:1

Station 64+50.00 Surface STAKE

CP	EP	R/W-BAR	CL	BBARR	TDIKE	ES
-4.00	-2.00	-1.08	0.00	1.00	17.37	18.37
298.10	298.25	298.25	298.25	298.76	298.26	297.93
-7.57%	0.00%	0.00%		1.97:1	-3.06%	-3.03:1