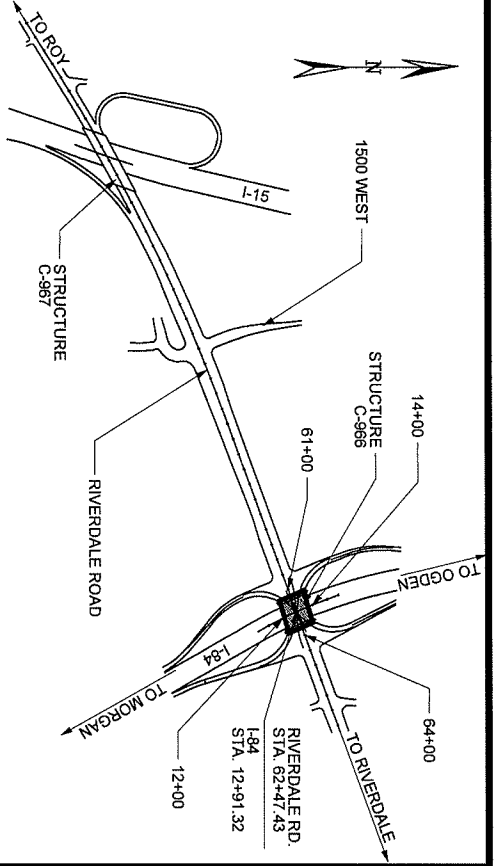


BRIDGE LOAD RATING	
RATING	HL-93
LOC.	LOCATION
INVT.	1.006
OPER.	1.308
F DENOTES RATING CONTROLLED BY FLEXURE S DENOTES RATING CONTROLLED BY SHEAR Vr AT 0.00' = 2729 k-ft Vr AT 0.00' = 307 kips	



- GENERAL NOTES:**
- USE COATED DEFORMED-BILLET REINFORCING STEEL BARS CONFORMING TO AASHTO M284 OR M111 AND M31 GRADE 80 RESPECTIVELY.
 - CHAMFER ALL EXPOSED CONCRETE CORNERS 3/4" EXCEPT WHERE NOTED OTHERWISE.
 - USE STRUCTURAL STEEL CONFORMING TO AASHTO M270 GRADE 50 EXCEPT WHERE NOTED OTHERWISE.
 - OTHERWISE, 3/4" EXCEPT WHERE NOTED OTHERWISE.
 - USE CLASS A AND CAST-IN-PLACE CONCRETE EXCEPT WHERE NOTED OTHERWISE.
 - REMOVE EXISTING STRUCTURES A MINIMUM OF 2' BELOW FINISHED GRADE.

- DESIGN DATA**
- HL-93 LOADING IN ACCORDANCE WITH CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND INTERIMS. SEISMIC DESIGN IN ACCORDANCE WITH MCEER/ATC 49.
- CAST-IN-PLACE AND PRECAST APPROACH SLAB CONCRETE: $f_c = 4$ KSI; f_y (REINF.) = 80 KSI; $n = 8$
- ALL OTHER CAST-IN-PLACE AND PRECAST CONCRETE: $f_c = 5$ KSI; f_y (REINF.) = 80 KSI; $n = 7$
- STRUCTURAL STEEL: $f_y = 50$ KSI
- SACRIFICIAL WEARING SURFACE: 1/2" CONCRETE, ADDITIONAL 1/4" ASSUMED FOR GRINDING
- FUTURE WEARING SURFACE: 35 PSF
- DESIGN SPEED: 75 M.P.H. (I-84) 50 M.P.H. (RIVERDALE ROAD)
- SEISMIC: SEISMIC DESIGN PARAMETERS (2% PE IN 50 YR), $PGA = 0.54$
 $S_S =$ MAX. CONSIDERED EQ. GROUND MOTION AT $0.2s = 1.24g$
 $S_1 =$ MAX. CONSIDERED EQ. GROUND MOTION AT $1.0s = 0.159g$
 SITE CLASS D, $S_{ML} = IV$, $S_{DR} = 4$

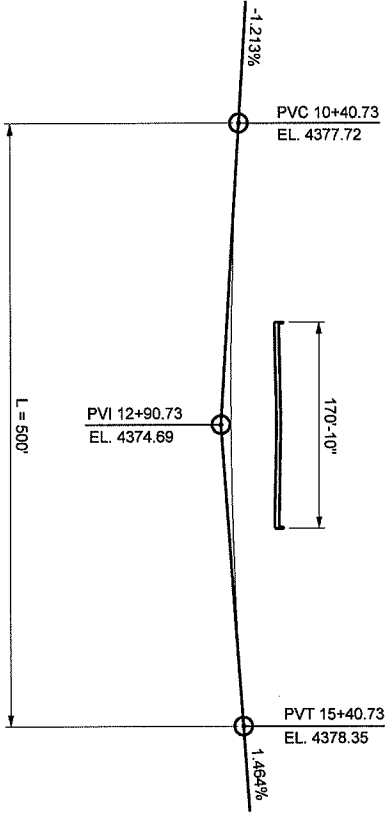
- INDEX OF SHEETS**
- | | |
|---------------------------------|----------------------------------|
| 1. SITUATION AND LAYOUT 1 OF 2 | 21. DECK PLAN |
| 2. SITUATION AND LAYOUT 2 OF 2 | 22. DECK DETAILS 1 OF 3 |
| 3. PHASING PLAN | 23. DECK DETAILS 2 OF 3 |
| 4. SOIL DATA SHEET 1 OF 3 | 24. DECK DETAILS 3 OF 3 |
| 5. SOIL DATA SHEET 2 OF 3 | 25. UNDERSLAB DETAILS |
| 6. SOIL DATA SHEET 3 OF 3 | 26. END DIAPHRAGM DETAILS |
| 7. FOUNDATION PLAN | 27. SCREENED ELEVATIONS |
| 8. PILE DETAILS | 28. APPROACH SLAB DETAILS 1 OF 3 |
| 9. ABUTMENT DETAILS 1 OF 4 | 29. APPROACH SLAB DETAILS 2 OF 3 |
| 10. ABUTMENT DETAILS 2 OF 4 | 30. APPROACH SLAB DETAILS 3 OF 3 |
| 11. ABUTMENT DETAILS 3 OF 4 | 31. APPROACH SLAB DRAIN DETAILS |
| 12. ABUTMENT DETAILS 4 OF 4 | 32. PARAPET DETAILS |
| 13. BENT #1 PLAN AND ELEVATION | 33. PARAPET END DETAILS |
| 14. BENT #2 PLAN AND ELEVATION | 34. OVERHEAD SIGNAL 1 OF 2 |
| 15. BENT #3 PLAN AND ELEVATION | 35. OVERHEAD SIGNAL 2 OF 2 |
| 16. STEEL GIRDER DETAILS 1 OF 2 | 36. REINFORCING SCHEDULE 1 OF 4 |
| 17. STEEL GIRDER DETAILS 2 OF 2 | 37. REINFORCING SCHEDULE 2 OF 4 |
| 18. ABUTMENT BEARING DETAILS | 38. REINFORCING SCHEDULE 3 OF 4 |
| 19. BENT BEARING DETAILS | 39. REINFORCING SCHEDULE 4 OF 4 |
| 20. FRAMING PLAN | |

QUANTITIES

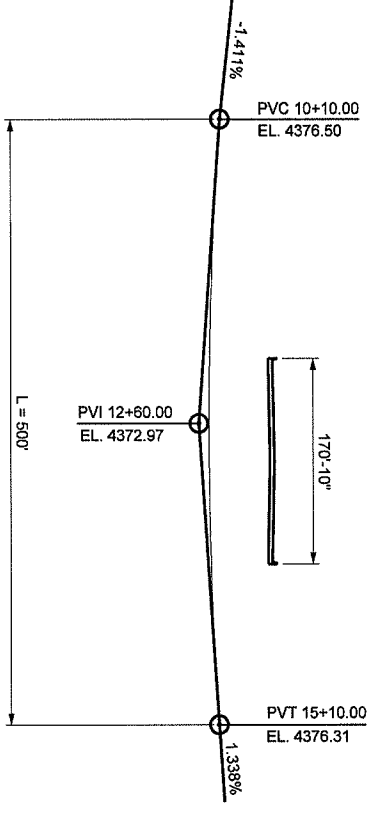
ITEM	ESTIM.	UNIT	AS CONST.
REMOVE BRIDGE	1	LUMP	
DRIVEN PILES (HP 14X102)	9,584	LF	
STRUCTURAL CONCRETE (EST. QTY. 1,955 CY)	1	LUMP	
STRUCTURAL STEEL (EST. QTY. 719,444 LBS)	1	LUMP	
REINFORCING STEEL-COATED (PLAN QUANTITY)	499,401	LBS	
PRECAST DECK PANELS	1	LUMP	
OVERHEAD SIGNAL STRUCTURE	1	LUMP	
TYPE I POLYMER OVERLAY	32,810	SF	
5' CHAINLINK FENCE (TYPE I)	384	LF	
STRUCTURE MURALS	1	LUMP	

RIVERDALE ROAD, I-15 TO WASHINGTON BLVD		UTAH DEPARTMENT OF TRANSPORTATION		PREPARED BY: MICHAEL BAKER JR. INC.	
RIVERDALE ROAD OVER I-84		SALT LAKE CITY, UTAH			
SITUATION AND LAYOUT 1 OF 2		STRUCTURES DIVISION			
APPROVAL RECOMM.	DATE	DESIGN	MSA	CHECK	JK
3/17/08		AA	02/08	JK	02/08
APPROVED FOR USE BY UDOT	DATE	QUANT.	JK	CHECK	MSA
3/18			03/08	MSA	03/08
PROJECT NUMBER SP-0026(4)0		REVISIONS			
WEBER COUNTY		NO.		DATE	
C-966		BY		REMARKS	
DRG. NO.					
SHT. 1 OF 39					

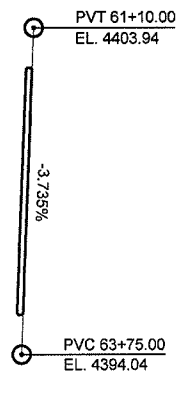
L-84 SB PROFILE
(FROM SURVEY)



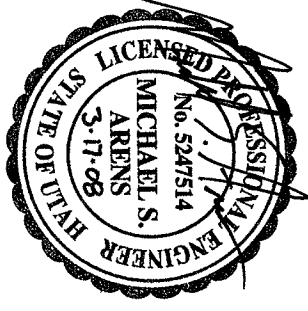
L-84 NB PROFILE
(FROM SURVEY)



RIVERDALE ROAD PROFILE



L-84 SUPERELEVATION DATA			
STATION	NB	SB	
11+75.00	-3.57%	4.88%	
12+91.00	-4.49%	4.78%	
14+00.00	-4.98%	4.84%	



L-84
CURVE DATA
A=10°24'05" RT
R=2885.00
T=127.14
L=620.773
P=12+81.08
N=307002.551
E=1859832.864

A3
CURVE DATA
A=27°28'46" RT
R=520.00
T=127.14
L=249.40
P=16+55.12
N=307038.0802
E=1859843.1187

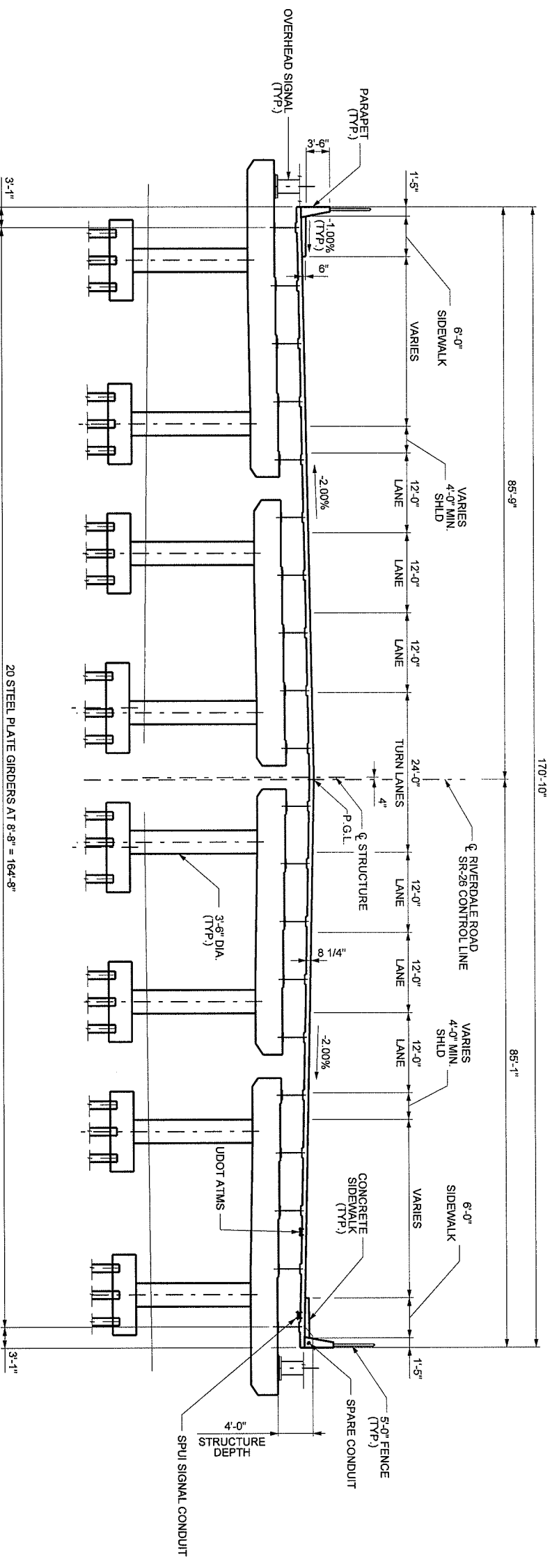
B2
CURVE DATA
A=33°42'24" LT
R=600.00
T=181.76
L=352.97
P=12+42.57
N=307035.0217
E=1859192.5867

C1
CURVE DATA
A=32°44'03" RT
R=600.00
T=176.21
L=342.91
P=307035.7416
E=1859886.4570

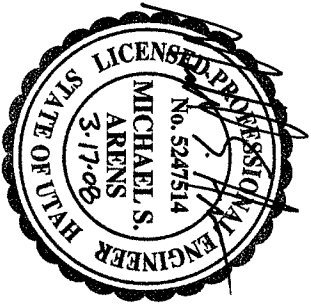
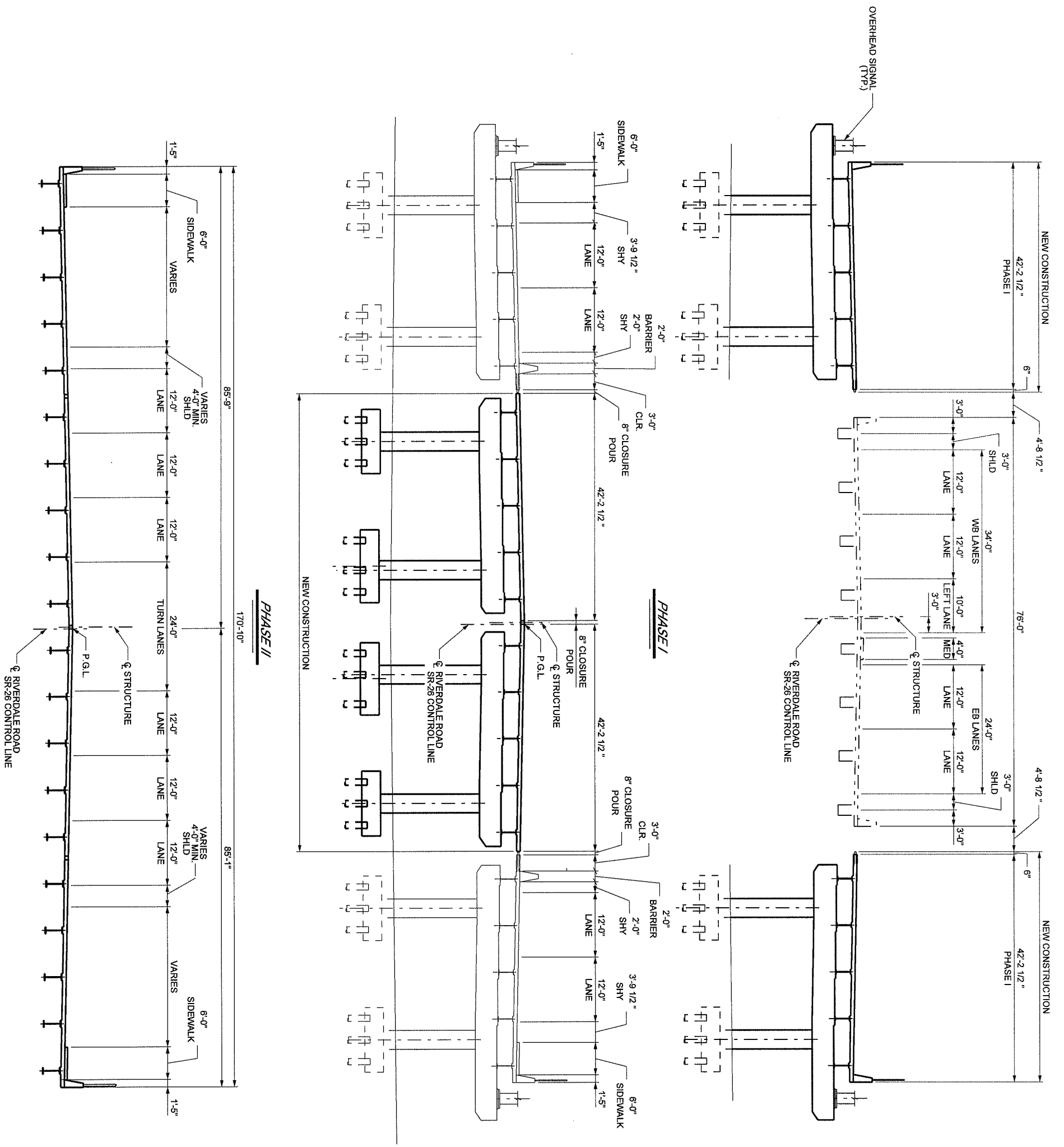
D1
CURVE DATA
A=24°23'44" LT
R=520.00
T=112.41
L=397.47
P=6+12.4086
N=306993.5051
E=1859818.5676

D2
CURVE DATA
A=81°22'31" LT
R=280.00
T=397.47
L=112.41
P=9+62.14
N=307262.7105
E=1860047.1195

SECTION THRU STRUCTURE



RIVERDALE ROAD, I-15 TO WASHINGTON BLVD RIVERDALE ROAD OVER I-84 SITUATION AND LAYOUT 2 OF 2 PROJECT NUMBER SP-0026-(4)0	UTAH DEPARTMENT OF TRANSPORTATION SALT LAKE CITY, UTAH STRUCTURES DIVISION	PREPARED BY: MICHAEL BAKER JR. INC.			
	APPROVAL RECOMM. DATE 3/17/08 DATE 3/17/08 APPROVED FOR USE BY UDOT DATE 3/17/08	DESIGN MSA 02/08 DRAWN AA 02/08 QUANT.	CHECK JK 02/08 CHECK JK 02/08 CHECK	NO.	DATE
			REMARKS REVISIONS		



RIVERDALE ROAD, I-15 TO WASHINGTON BLVD.
RIVERDALE ROAD OVER I-84
 PHASING PLAN
 PROJECT NUMBER: SP-0026(4)0

UTAH DEPARTMENT OF TRANSPORTATION
 SALT LAKE CITY, UTAH
 STRUCTURES DIVISION
 PREPARED BY: MICHAEL BAKER JR. INC.
 DESIGN MSA 02/08 CHECK JK 02/08
 DRAWN AA 02/08 CHECK JK 02/08
 APPROVAL RECOMM. DATE 3/10/08 [Signature] SENIOR DESIGN ENGR.
 APPROVED FOR USE BY UDOT DATE 3/10/08 [Signature] UDOT BRIDGE ENGR.

NO.	DATE	BY	REMARKS

WEBER COUNTY
 C-966
 DRG. NO.
 SHIT. 3 OF 39

CLIENT		PROJECT	
Michael Baker Jr.		Riverdale Road	
SITE		TESTS	
Riverdale Road: I-15 to Washington Blvd Riverdale, Utah		Riverdale Road	
DESCRIPTION		OTHER	
Boring Location: South side of Riverdale Rd. East of I-84. Approximate Surface Elevation: 4377.7 ft		OTHER	
GRAPHIC LOG		TESTS	
TOPSOIL: sand with gravel, brown GRAVEL (GP-GM): with sand, dense, brown-orange		DEPTH, ft.	
1 4377.5		USCS Soil Symbol	
2 4377.5		NUMBER	
3 4377.5		TYPE	
4 4377.5		RECOVERY, in.	
5 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
6 4377.5		WATER CONTENT, %	
7 4377.5		DRY UNIT WEIGHT, PCF	
8 4377.5		OTHER	
9 4377.5		TESTS	
10 4377.5		NUMBER	
11 4377.5		TYPE	
12 4377.5		RECOVERY, in.	
13 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
14 4377.5		WATER CONTENT, %	
15 4377.5		DRY UNIT WEIGHT, PCF	
16 4377.5		OTHER	
17 4377.5		TESTS	
18 4377.5		NUMBER	
19 4377.5		TYPE	
20 4377.5		RECOVERY, in.	
21 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
22 4377.5		WATER CONTENT, %	
23 4377.5		DRY UNIT WEIGHT, PCF	
24 4377.5		OTHER	
25 4377.5		TESTS	
26 4377.5		NUMBER	
27 4377.5		TYPE	
28 4377.5		RECOVERY, in.	
29 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
30 4377.5		WATER CONTENT, %	
31 4377.5		DRY UNIT WEIGHT, PCF	
32 4377.5		OTHER	
33 4377.5		TESTS	
34 4377.5		NUMBER	
35 4377.5		TYPE	
36 4377.5		RECOVERY, in.	
37 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
38 4377.5		WATER CONTENT, %	
39 4377.5		DRY UNIT WEIGHT, PCF	
40 4377.5		OTHER	
41 4377.5		TESTS	
42 4377.5		NUMBER	
43 4377.5		TYPE	
44 4377.5		RECOVERY, in.	
45 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
46 4377.5		WATER CONTENT, %	
47 4377.5		DRY UNIT WEIGHT, PCF	
48 4377.5		OTHER	
49 4377.5		TESTS	
50 4377.5		NUMBER	
51 4377.5		TYPE	
52 4377.5		RECOVERY, in.	
53 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
54 4377.5		WATER CONTENT, %	
55 4377.5		DRY UNIT WEIGHT, PCF	
56 4377.5		OTHER	
57 4377.5		TESTS	
58 4377.5		NUMBER	
59 4377.5		TYPE	
60 4377.5		RECOVERY, in.	
61 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
62 4377.5		WATER CONTENT, %	
63 4377.5		DRY UNIT WEIGHT, PCF	
64 4377.5		OTHER	
65 4377.5		TESTS	
66 4377.5		NUMBER	
67 4377.5		TYPE	
68 4377.5		RECOVERY, in.	
69 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
70 4377.5		WATER CONTENT, %	
71 4377.5		DRY UNIT WEIGHT, PCF	
72 4377.5		OTHER	
73 4377.5		TESTS	
74 4377.5		NUMBER	
75 4377.5		TYPE	
76 4377.5		RECOVERY, in.	
77 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
78 4377.5		WATER CONTENT, %	
79 4377.5		DRY UNIT WEIGHT, PCF	
80 4377.5		OTHER	
81 4377.5		TESTS	
82 4377.5		NUMBER	
83 4377.5		TYPE	
84 4377.5		RECOVERY, in.	
85 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
86 4377.5		WATER CONTENT, %	
87 4377.5		DRY UNIT WEIGHT, PCF	
88 4377.5		OTHER	
89 4377.5		TESTS	
90 4377.5		NUMBER	
91 4377.5		TYPE	
92 4377.5		RECOVERY, in.	
93 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
94 4377.5		WATER CONTENT, %	
95 4377.5		DRY UNIT WEIGHT, PCF	
96 4377.5		OTHER	
97 4377.5		TESTS	
98 4377.5		NUMBER	
99 4377.5		TYPE	
100 4377.5		RECOVERY, in.	

CLIENT		PROJECT	
Michael Baker Jr.		Riverdale Road	
SITE		TESTS	
Riverdale Road: I-15 to Washington Blvd Riverdale, Utah		Riverdale Road	
DESCRIPTION		OTHER	
Boring Location: South side of Riverdale Rd. East of I-84. Approximate Surface Elevation: 4377.7 ft		OTHER	
GRAPHIC LOG		TESTS	
CLAYEY SAND (SC): dense, gray with orange and black mottling		DEPTH, ft.	
1 4377.5		USCS Soil Symbol	
2 4377.5		NUMBER	
3 4377.5		TYPE	
4 4377.5		RECOVERY, in.	
5 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
6 4377.5		WATER CONTENT, %	
7 4377.5		DRY UNIT WEIGHT, PCF	
8 4377.5		OTHER	
9 4377.5		TESTS	
10 4377.5		NUMBER	
11 4377.5		TYPE	
12 4377.5		RECOVERY, in.	
13 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
14 4377.5		WATER CONTENT, %	
15 4377.5		DRY UNIT WEIGHT, PCF	
16 4377.5		OTHER	
17 4377.5		TESTS	
18 4377.5		NUMBER	
19 4377.5		TYPE	
20 4377.5		RECOVERY, in.	
21 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
22 4377.5		WATER CONTENT, %	
23 4377.5		DRY UNIT WEIGHT, PCF	
24 4377.5		OTHER	
25 4377.5		TESTS	
26 4377.5		NUMBER	
27 4377.5		TYPE	
28 4377.5		RECOVERY, in.	
29 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
30 4377.5		WATER CONTENT, %	
31 4377.5		DRY UNIT WEIGHT, PCF	
32 4377.5		OTHER	
33 4377.5		TESTS	
34 4377.5		NUMBER	
35 4377.5		TYPE	
36 4377.5		RECOVERY, in.	
37 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
38 4377.5		WATER CONTENT, %	
39 4377.5		DRY UNIT WEIGHT, PCF	
40 4377.5		OTHER	
41 4377.5		TESTS	
42 4377.5		NUMBER	
43 4377.5		TYPE	
44 4377.5		RECOVERY, in.	
45 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
46 4377.5		WATER CONTENT, %	
47 4377.5		DRY UNIT WEIGHT, PCF	
48 4377.5		OTHER	
49 4377.5		TESTS	
50 4377.5		NUMBER	
51 4377.5		TYPE	
52 4377.5		RECOVERY, in.	
53 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
54 4377.5		WATER CONTENT, %	
55 4377.5		DRY UNIT WEIGHT, PCF	
56 4377.5		OTHER	
57 4377.5		TESTS	
58 4377.5		NUMBER	
59 4377.5		TYPE	
60 4377.5		RECOVERY, in.	
61 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
62 4377.5		WATER CONTENT, %	
63 4377.5		DRY UNIT WEIGHT, PCF	
64 4377.5		OTHER	
65 4377.5		TESTS	
66 4377.5		NUMBER	
67 4377.5		TYPE	
68 4377.5		RECOVERY, in.	
69 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
70 4377.5		WATER CONTENT, %	
71 4377.5		DRY UNIT WEIGHT, PCF	
72 4377.5		OTHER	
73 4377.5		TESTS	
74 4377.5		NUMBER	
75 4377.5		TYPE	
76 4377.5		RECOVERY, in.	
77 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
78 4377.5		WATER CONTENT, %	
79 4377.5		DRY UNIT WEIGHT, PCF	
80 4377.5		OTHER	
81 4377.5		TESTS	
82 4377.5		NUMBER	
83 4377.5		TYPE	
84 4377.5		RECOVERY, in.	
85 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
86 4377.5		WATER CONTENT, %	
87 4377.5		DRY UNIT WEIGHT, PCF	
88 4377.5		OTHER	
89 4377.5		TESTS	
90 4377.5		NUMBER	
91 4377.5		TYPE	
92 4377.5		RECOVERY, in.	
93 4377.5		PENETRATION RESISTANCE BLOWS / ft.	
94 4377.5		WATER CONTENT, %	
95 4377.5		DRY UNIT WEIGHT, PCF	
96 4377.5		OTHER	
97 4377.5		TESTS	
98 4377.5		NUMBER	
99 4377.5		TYPE	
100 4377.5		RECOVERY, in.	

CLIENT		PROJECT	
Michael Baker Jr.		Riverdale Road	
SITE		TESTS	
Riverdale Road: I-15 to Washington Blvd Riverdale, Utah		Riverdale Road	
DESCRIPTION		OTHER	
Boring Location: North side of Riverdale Rd. East of I-84. Approximate Surface Elevation: 4377.8 ft		OTHER	
GRAPHIC LOG		TESTS	
TOPSOIL: sand, light brown CLAYEY SAND (SC): medium dense, brown		DEPTH, ft.	
1 4377.4		USCS Soil Symbol	
2 4377.4		NUMBER	
3 4377.4		TYPE	
4 4377.4		RECOVERY, in.	
5 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
6 4377.4		WATER CONTENT, %	
7 4377.4		DRY UNIT WEIGHT, PCF	
8 4377.4		OTHER	
9 4377.4		TESTS	
10 4377.4		NUMBER	
11 4377.4		TYPE	
12 4377.4		RECOVERY, in.	
13 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
14 4377.4		WATER CONTENT, %	
15 4377.4		DRY UNIT WEIGHT, PCF	
16 4377.4		OTHER	
17 4377.4		TESTS	
18 4377.4		NUMBER	
19 4377.4		TYPE	
20 4377.4		RECOVERY, in.	
21 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
22 4377.4		WATER CONTENT, %	
23 4377.4		DRY UNIT WEIGHT, PCF	
24 4377.4		OTHER	
25 4377.4		TESTS	
26 4377.4		NUMBER	
27 4377.4		TYPE	
28 4377.4		RECOVERY, in.	
29 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
30 4377.4		WATER CONTENT, %	
31 4377.4		DRY UNIT WEIGHT, PCF	
32 4377.4		OTHER	
33 4377.4		TESTS	
34 4377.4		NUMBER	
35 4377.4		TYPE	
36 4377.4		RECOVERY, in.	
37 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
38 4377.4		WATER CONTENT, %	
39 4377.4		DRY UNIT WEIGHT, PCF	
40 4377.4		OTHER	
41 4377.4		TESTS	
42 4377.4		NUMBER	
43 4377.4		TYPE	
44 4377.4		RECOVERY, in.	
45 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
46 4377.4		WATER CONTENT, %	
47 4377.4		DRY UNIT WEIGHT, PCF	
48 4377.4		OTHER	
49 4377.4		TESTS	
50 4377.4		NUMBER	
51 4377.4		TYPE	
52 4377.4		RECOVERY, in.	
53 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
54 4377.4		WATER CONTENT, %	
55 4377.4		DRY UNIT WEIGHT, PCF	
56 4377.4		OTHER	
57 4377.4		TESTS	
58 4377.4		NUMBER	
59 4377.4		TYPE	
60 4377.4		RECOVERY, in.	
61 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
62 4377.4		WATER CONTENT, %	
63 4377.4		DRY UNIT WEIGHT, PCF	
64 4377.4		OTHER	
65 4377.4		TESTS	
66 4377.4		NUMBER	
67 4377.4		TYPE	
68 4377.4		RECOVERY, in.	
69 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
70 4377.4		WATER CONTENT, %	
71 4377.4		DRY UNIT WEIGHT, PCF	
72 4377.4		OTHER	
73 4377.4		TESTS	
74 4377.4		NUMBER	
75 4377.4		TYPE	
76 4377.4		RECOVERY, in.	
77 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
78 4377.4		WATER CONTENT, %	
79 4377.4		DRY UNIT WEIGHT, PCF	
80 4377.4		OTHER	
81 4377.4		TESTS	
82 4377.4		NUMBER	
83 4377.4		TYPE	
84 4377.4		RECOVERY, in.	
85 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
86 4377.4		WATER CONTENT, %	
87 4377.4		DRY UNIT WEIGHT, PCF	
88 4377.4		OTHER	
89 4377.4		TESTS	
90 4377.4		NUMBER	
91 4377.4		TYPE	
92 4377.4		RECOVERY, in.	
93 4377.4		PENETRATION RESISTANCE BLOWS / ft.	
94 4377.4		WATER CONTENT, %	
95 4377.4		DRY UNIT WEIGHT, PCF	
96 4377.4		OTHER	

CLIENT	Michael Baker Jr.	PROJECT	Riverdale Road
SITE	Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah	Boring Location: North side west abutment I-84 Approximate Surface Elevation: 4373.1 ft	
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS Soil Symbol
	TOPSOIL: sandy clay, brown CLAYEY SAND (SC):	0.4	
	CLAYEY GRAVEL (GC): with sand, dense, brown	10	
	SANDY CLAY (CL): very stiff, brown	15	
	SILTY SAND (SM): with some gravel, medium dense to very dense, gray to brown	20	
	- with organics	20	
		21	
		22	
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		25	
		26	
		27	
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		29	
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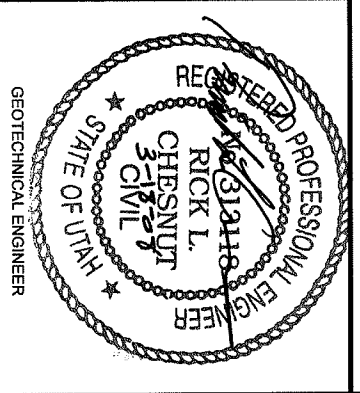
CLIENT	Michael Baker Jr.	PROJECT	Riverdale Road
SITE	Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah	Boring Location: South side west abutment I-84 Approximate Surface Elevation: 4373.1 ft	
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS Soil Symbol
	SILTY SAND (SM): with some gravel, medium dense to very dense, gray to brown	43	
	LEAN CLAY (CL): very stiff, brown	44	
		45	
		46	
		47	
		48	
		49	
		50	
		51	
		52	
		53	
		54	
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		84	

CLIENT	Michael Baker Jr.	PROJECT	Riverdale Road
SITE	Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah	Boring Location: South side west abutment I-84 Approximate Surface Elevation: 4377.6 ft	
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS Soil Symbol
	TOPSOIL: sand, brown CLAYEY SAND (SC): dense, brown	0.4	
	CLAYEY GRAVEL (GC): with sand, very dense	10	
	CLAYEY SAND (SC): with gravel, dense to very dense, dark brown with orange and black mottling	17	
		18	
		19	
		20	
		21	
		22	
		23	
		24	
		25	
		26	
		27	
		28	
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		32	
		33	
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		39	
		40	
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		42	

CLIENT	Michael Baker Jr.	PROJECT	Riverdale Road
SITE	Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah	Boring Location: South side west abutment I-84 Approximate Surface Elevation: 4377.6 ft	
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS Soil Symbol
	CLAYEY SAND (SC): with gravel, dense to very dense, dark brown with orange and black mottling	43	
	SANDY CLAY (CL): hard, brown to gray with black and red mottling	50	
		51	
		52	
		53	
		54	
		55	
		56	
		57	
		58	
		59	
		60	
		61	
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		82	
		83	
		84	

CLIENT	Michael Baker Jr.	PROJECT	Riverdale Road
SITE	Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah	Boring Location: South side west abutment I-84 Approximate Surface Elevation: 4373.1 ft	
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS Soil Symbol
	CLAYEY SAND (SC): loose to medium dense, gray	85	
	SANDY CLAY (CL): hard, gray with orange mottling	95	
	CLAYEY SAND (SC): medium dense, gray	101.5	
		100	
		99	
		98	
		97	
		96	
		95	
		94	
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		92	
		91	
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		85	

CLIENT	Michael Baker Jr.	PROJECT	Riverdale Road
SITE	Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah	Boring Location: South side west abutment I-84 Approximate Surface Elevation: 4276.1 ft	
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS Soil Symbol
	CLAYEY SAND (SC): dense to very dense, brown with red and black mottling	85	
		86	
		87	
		88	
		89	
		90	
		91	
		92	
		93	
		94	
		95	
		96	
		97	
		98	
		99	
		100	
		101	



RIVERDALE ROAD, I-84 TO WASHINGTON BLVD		UTAH DEPARTMENT OF TRANSPORTATION		PREPARED BY: MICHAEL BAKER JR. INC.	
RIVERDALE ROAD OVER I-84		SALT LAKE CITY, UTAH			
SOIL DATA SHEET 2 OF 3		STRUCTURES DIVISION			
PROJECT NUMBER	SP-0026(4)0	APPROVAL RECOMM. DATE	3/10/08	DESIGN RLC	02/08
		APPROVED FOR USE BY UDOT DATE	3/10/08	CHECK CJT	02/08
				DRAWN GCK	02/08
				CHECK RLC	02/08
				QUANT.	CHECK
SHT. 5	OF 39				

LOG OF BORING NO. B-17 Page 1 of 3

CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: South side I-84 bridge near center pier Approximate Surface Elevation: 4374.8 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
0.4	TOPSOIL:		
1	clayey sand with gravel, brown		
2	CLAYEY SAND (SC):	1	2 50/4
3	very dense, brown		
4			
5			
6			
7			
8			
9			
10			
11	GRAVEL (GP-GM):	2	SS 6 44
12	with clayey sand, dense, brown		
13			
14			
15			
16	SILTY SAND (SM):	3	SS 8 18
17	loose to very dense, brown with orange and black mottling		
18			
19			
20		4	SS 16 23 25
21			
22			
23			
24			
25		5	SS 12 47
26			
27			
28			
29			
30		6	SS 12 50
31			
32			
33			
34			
35			
36		7	SS 16 40 22
37			
38			
39			
40		8	SS 18 17
41			
42			

4359.8
Continued Next Page

LOG OF BORING NO. B-17 Page 2 of 3

CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: North side of I-84 bridge near center pier Approximate Surface Elevation: 4374.6 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
43			
44			
45		9	SS 15 9
46			
47			
48			
49			
50		10	SS 12 29 23
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61		12	ST 18 24 100
62			
63			
64			
65			
66			
67			
68			
69			
70			
71		14	SS 18 22 25
72			
73			
74			
75			
76			
77			
78			
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80			
81			
82			
83			
84		16	SS 10 54

4294.8
Continued Next Page

LOG OF BORING NO. B-18 Page 1 of 3

CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: North side of I-84 bridge near center pier Approximate Surface Elevation: 4374.6 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
0.4	TOPSOIL:		
1	clayey sand with gravel, brown, weeds at surface		
2	SILTY SAND (SM):		
3	with gravel, loose to very dense, brown, with red and black mottling, some organics		
4			
5			
6			
7			
8			
9			
10			
11			
12		2	SS 12 16
13			
14			
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40			
41			
42		8	SS 12 8

4374.2
Continued Next Page

LOG OF BORING NO. B-18 Page 2 of 3

CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: North side of I-84 bridge near center pier Approximate Surface Elevation: 4374.6 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
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83			
84			

4294.6
Continued Next Page

LOG OF BORING NO. B-17 Page 3 of 3

CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: South side I-84 bridge near center pier Approximate Surface Elevation: 4273.3 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			
101			

4273.3
BOTTOM OF BORING AT APPROXIMATELY 101.5 FEET

LOG OF BORING NO. B-18 Page 3 of 3

CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: North side of I-84 bridge near center pier Approximate Surface Elevation: 4273.1 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
98			
99			
100			
101			

4273.1
BOTTOM OF BORING AT APPROXIMATELY 101.5 FEET

LOG OF BORING NO. B-18 Page 3 of 3

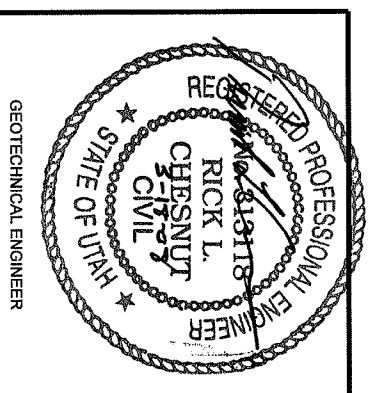
CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: North side of I-84 bridge near center pier Approximate Surface Elevation: 4273.1 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
98			
99			
100			
101			

4273.1
BOTTOM OF BORING AT APPROXIMATELY 101.5 FEET

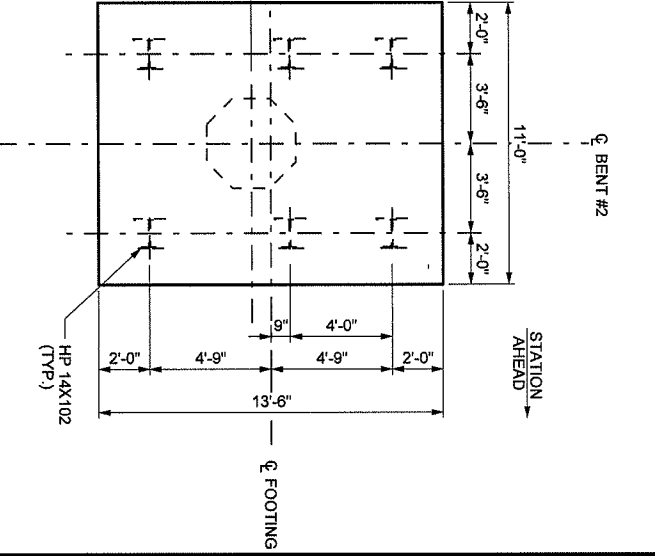
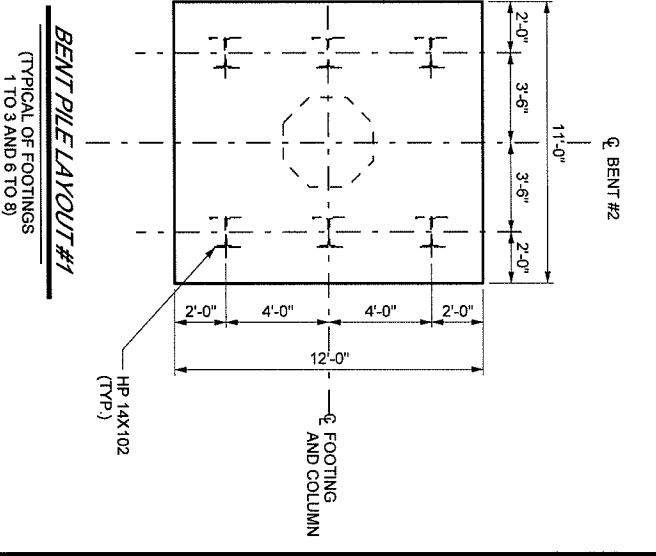
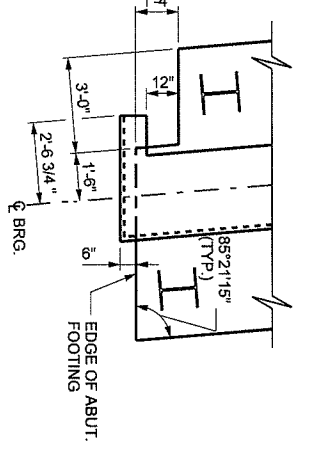
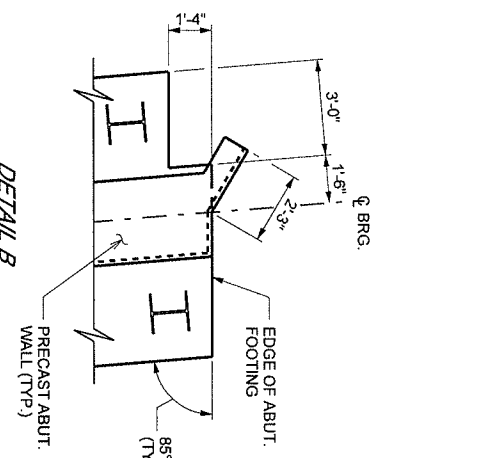
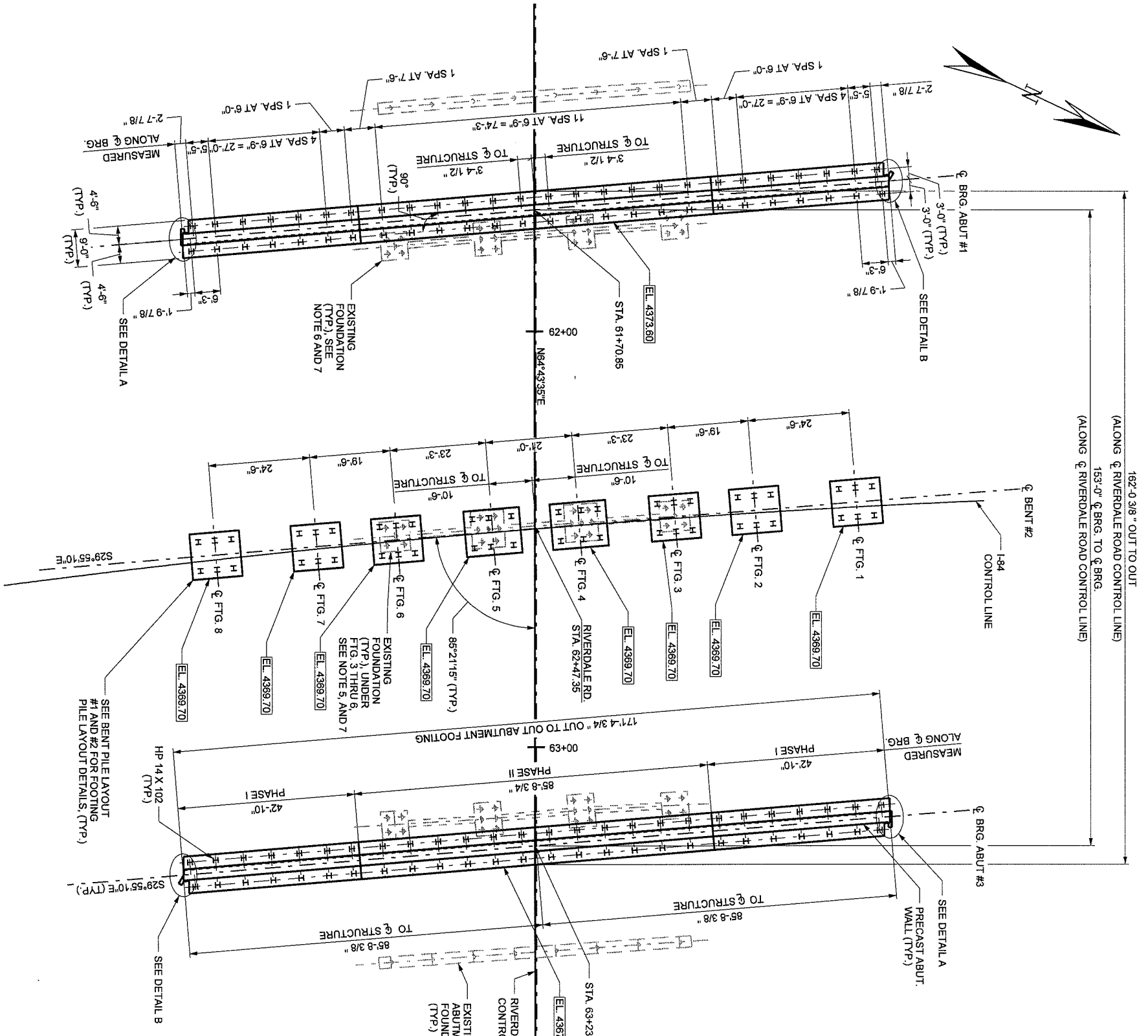
LOG OF BORING NO. B-18 Page 3 of 3

CLIENT Michael Baker Jr.		PROJECT Riverdale Road	
SITE Riverdale Road: 1-15 to Washington Blvd Riverdale, Utah		Boring Location: North side of I-84 bridge near center pier Approximate Surface Elevation: 4273.1 ft	
DEPTH, ft.	USCS Soil Symbol	NUMBER	RECOVERY, in.
98			
99			
100			
101			

4273.1
BOTTOM OF BORING AT APPROXIMATELY 101.5 FEET

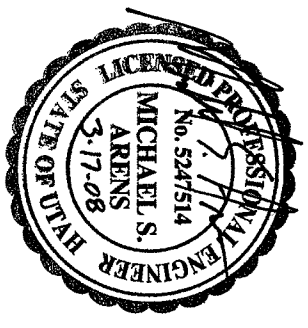


RIVERDALE ROAD, I-84 TO WASHINGTON BLVD		UTAH DEPARTMENT OF TRANSPORTATION		PREPARED BY: MICHAEL BAKER JR. INC.	
RIVERDALE ROAD OVER I-84		SALT LAKE CITY, UTAH			
SOIL DATA SHEET 3 OF 3		STRUCTURES DIVISION			
APPROVAL RECOMM. DATE: 3/10/08	DESIGN RLC 02/08	CHECK CJT 02/08	APPROVED FOR USE BY UDOT DATE: 3/10/08	QUANT.	CHECK
PROJECT NUMBER: SP-0026(4)0		APPROVED FOR USE BY UDOT DATE: 3/10/08		REVISIONS	
WEBER COUNTY C-966		APPROVED FOR USE BY UDOT DATE: 3/10/08		NO. DATE BY REMARKS	
DNG. NO. C-966		APPROVED FOR USE BY UDOT DATE: 3/10/08			
SHT. 6 OF 39		APPROVED FOR USE BY UDOT DATE: 3/10/08			



NOTES:

1. ALL BOTTOM OF FOOTING ELEVATIONS ARE ENCLOSED IN RECTANGLES
EXAMPLES: EL. XXXX.XX
2. SEE "PILE DETAIL S" FOR PILE DETAILS.
3. LOCATION OF EXISTING STRUCTURES ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY.
4. PERFORM PDA TESTING AS DIRECTED BY GEOTECHNICAL REPORT.
5. BENT #2 FOOTINGS 3 THRU 6 ARE LOCATED OVER EXISTING PILES AND FOOTINGS. REMOVE EXISTING FOOTINGS AND ADJUST PILE LOCATIONS TO AVOID EXISTING PILES PER EXISTING FIELD CONDITIONS AND PROVIDE A MINIMUM EDGE DISTANCE (G. EXT. PILES TO EDGE OF FOOTING) OF 1'-0". LOCATE COLUMN AT ACTUAL LOCATIONS SHOWN IN BENT #2 PLAN AND ELEVATION.
6. AT PARTS OF PHASE II ABUTMENT FOOTINGS OVER EXISTING PILES, REQUIRED ADJUST PILE LOCATIONS. MAXIMUM OF 2'-0" FROM LOCATION SHOWN IN THE DIRECTION PARALLEL TO CENTERLINE BEARINGS TO AVOID EXISTING PILES.
7. ALL PILES TO MISS POST-TENSIONING ANCHORAGE AREAS OF FOOTINGS.
8. USE LIGHT WEIGHT FILL BEHIND ABUTMENTS. SEE PROJECT GEOTECH REPORT.



RIVERDALE ROAD, I-84 TO WASHINGTON BLVD		UTAH DEPARTMENT OF TRANSPORTATION		PREPARED BY:	
RIVERDALE ROAD OVER I-84		SALT LAKE CITY, UTAH		MICHAEL BAKER JR. INC.	
FOUNDATION PLAN		STRUCTURES DIVISION			
PROJECT NUMBER: SP-0026(4)0		APPROVAL RECOMM. DATE: 3/10/08	DESIGN MSA 09/07	CHECK DAP 02/08	
DRAWN AA 09/07		APPROVED FOR USE BY UDOT DATE: 3/10/08	CHECK DAP 02/08	CHECK	
SHT. 7 OF 39		REVISIONS			
C-966		NO. DATE BY REMARKS			
DRG. NO.					
WEBER COUNTY					

