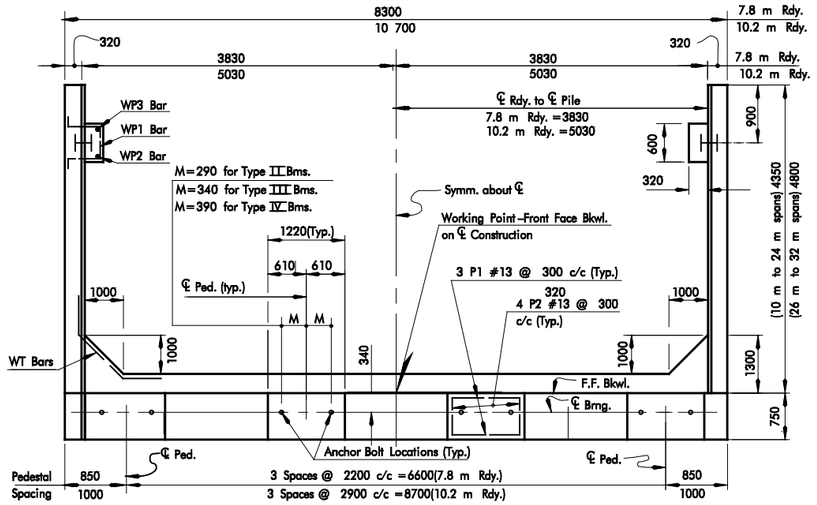
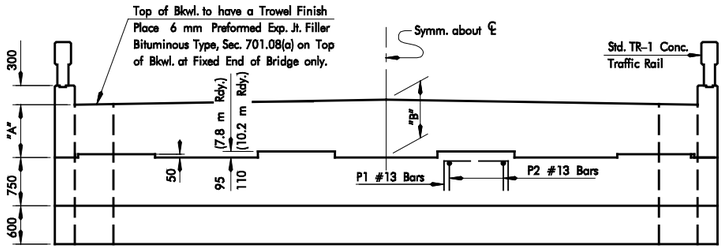
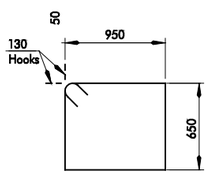


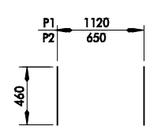
PLAN



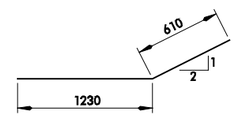
ELEVATION



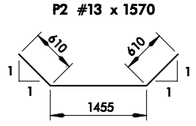
S #13 x 3460



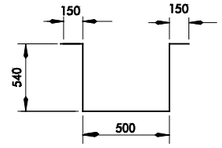
P1 #13 x 2040
P2 #13 x 1570



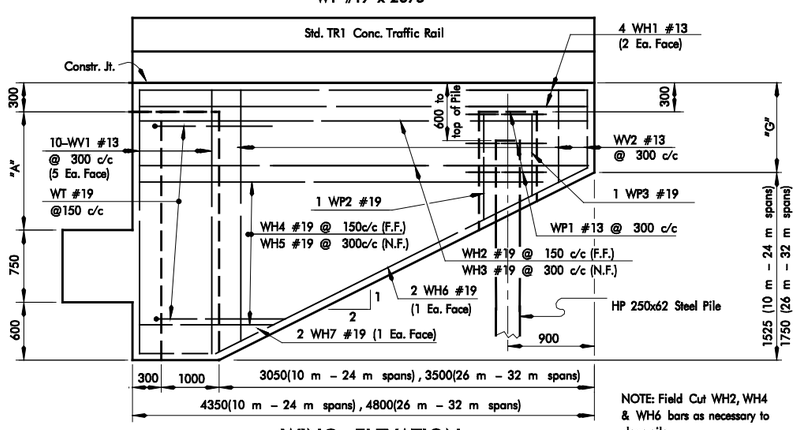
WH7 #19 x 1840



WT #19 x 2675

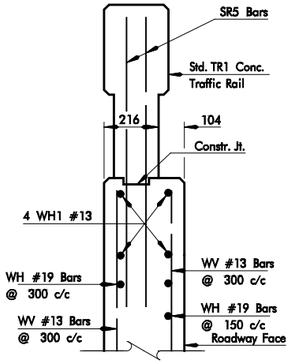


WP1 #13 x 1880

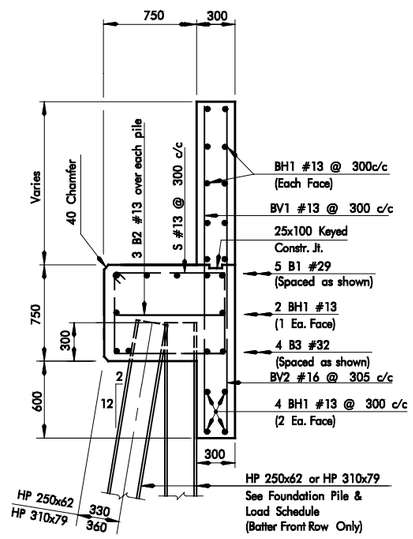


NOTE: Field Cut WH2, WH4 & WH6 bars as necessary to clear pile.

WING ELEVATION



SECTION THRU WING

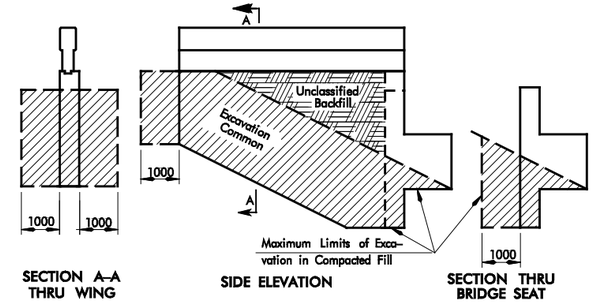


SECTION THRU BRIDGE SEAT

① 3 bars over each bridge seat pile
② 2215 to 2295
③ 2215 to 2315
④ 2445 to 2525
⑤ 2445 to 2545
⑥ 2670 to 2750
⑦ 2670 to 2770
⑧ 1835 to 3935
⑨ 1835 to 3635
⑩ 1835 to 4535
⑪ 1835 to 4235
⑫ 1010 to 2360
⑬ 1235 to 2585
⑭ 1240 to 2890

ADJUSTMENTS TO QUANTITIES SHOWN

Add "B2" & "SR5" Reinforcing to quantities shown.

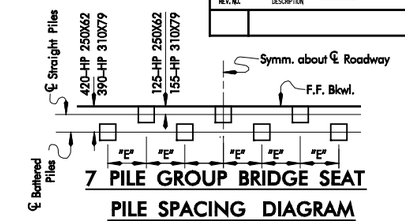


SECTION A–A THRU WING — SIDE ELEVATION — SECTION THRU BRIDGE SEAT

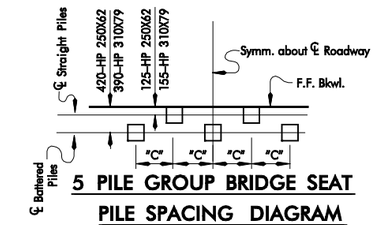
TYPICAL ABUTMENT EXCAVATION DIAGRAM

REV. NO.	DESCRIPTION	DATE

REVISIONS



7 PILE GROUP BRIDGE SEAT PILE SPACING DIAGRAM



5 PILE GROUP BRIDGE SEAT PILE SPACING DIAGRAM

		QUANTITIES–ONE ABUTMENT					
	SPAN (m)	CLASS S CONCRETE (m^3)	REINF. STEEL (kg)	SUBSTR. EXC. COMMON (m^3)	UNCL. BACKFILL (m^3)	CONC. RAIL (m)
7.8 m ROADWAY	10	18.7	1600	45	11	8.7
	12	18.7	1600	45	11	8.7
	14	18.7	1600	45	11	8.7
	16	18.7	1600	45	11	8.7
	18	21.0	1650	48	16	8.7
	20	21.0	1650	48	16	8.7
	22	21.0	1650	48	16	8.7
	24	21.0	1650	48	16	8.7
	26	22.5	1830	51	24	9.6
	28	22.5	1830	51	24	9.6
	30	22.5	1830	51	24	9.6
	32	22.5	1830	51	24	9.6
10.2 m ROADWAY	10	21.7	1840	50	15	8.7
	12	21.7	1840	50	15	8.7
	14	21.7	1840	50	15	8.7
	16	21.7	1840	50	15	8.7
	18	24.4	1890	52	21	8.7
	20	24.4	1890	52	21	8.7
	22	24.4	1890	52	21	8.7
	24	24.4	1890	52	21	8.7
	26	26.0	2080	55	31	9.6
	28	26.0	2080	55	31	9.6
	30	26.0	2080	55	31	9.6
	32	26.0	2080	55	31	9.6

		DIMENSION SCHEDULE				
	SPAN LENGTH (m)	"A"	"B"	"G"	"C"	"E"
7.8 m ROADWAY	10	968	1045	1093	1800	0
	12	968	1045	1093	1800	0
	14	968	1045	1093	1800	0
	16	968	1045	1093	1800	0
	18	1197	1274	1322	1800	0
	20	1197	1274	1322	1800	0
	22	1197	1274	1322	1800	0
	24	1197	1274	1322	0	1200
	26	1426	1503	1326	0	1200
	28	1426	1503	1326	0	1200
	30	1426	1503	1326	0	1200
	32	1426	1503	1326	0	1200
10.2 m ROADWAY	10	965	1066	1090	2300	0
	12	965	1066	1090	2300	0
	14	965	1066	1090	2300	0
	16	965	1066	1090	2300	0
	18	1194	1295	1319	2300	0
	20	1194	1295	1319	2300	0
	22	1194	1295	1319	0	1600
	24	1194	1295	1319	0	1600
	26	1423	1524	1323	0	1600
	28	1423	1524	1323	0	1600
	30	1423	1524	1323	0	1600
	32	1423	1524	1323	0	1600

FOUNDATION PILE & LOAD SCHEDULE				
	7.8 m ROADWAY		10.2 m ROADWAY	
SPAN (m)	NUMBER OF BRIDGE SEAT PILES	AVERAGE LOAD (kN/pile)	NUMBER OF BRIDGE SEAT PILES	AVERAGE LOAD (kN/pile)
10	5 *	230	5 *	260
12	5 *	250	5 *	290
14	5 *	270	5 *	310
16	5 *	290	5 *	330
18	5 *	330	7 *	270
20	5 *	350	7 *	290
22	5 *	370	7 *	300
24	7 *	280	7 *	320
26	7 *	320	7 *	360
28	7 *	340	7 **	380
30	7 *	350	7 **	400
32	7 *	370	7 **	420

* HP 250X62 ** HP 310X79

	BAR LIST–ONE ABUTMENT 10 THRU 16 SPANS				
	MARK	NO.	SIZE	FORM	LENGTH
7.8m Rdy.	B1	5	#29	Str.	8200
10.2m Rdy.	B1	5	#29	Str.	10 600
	B2	①	#13	Str.	950
7.8m Rdy.	B3	4	#32	Str.	8200
10.2m Rdy.	B3	4	#32	Str.	10 600
7.8m Rdy.	BH1	14	#13	Str.	8200
10.2m Rdy.	BH1	14	#13	Str.	10 600
7.8m Rdy.	BV1	27	#13	Str.	2255 Avg. ②
10.2m Rdy.	BV1	35	#13	Str.	2265 Avg. ③
7.8m Rdy.	BV2	27	#16	Str.	2255 Avg. ②
10.2m Rdy.	BV2	35	#16	Str.	2265 Avg. ③
	P1	12	#13	Bnt.	2040
	P2	16	#13	Bnt.	1570
7.8m Rdy.	S	29	#13	Bnt.	3460
10.2m Rdy.	S	37	#13	Bnt.	3460
	WH1	8	#13	Str.	4250
	WH2	14	#19	Str.	4250
	WH3	8	#19	Str.	4250
	WH4	16	#19	Str.	2885 Avg. ⑧
	WH5	8	#19	Str.	2735 Avg. ⑨
	WH6	4	#19	Str.	3360
	WH7	4	#19	Bnt.	1840
	WP1	8	#13	Bnt.	1880
	WP2	2	#19	Str.	1260
	WP3	2	#19	Str.	1010
	WT	26	#19	Bnt.	2675
	WV1	20	#13	Str.	2490
	WV2	40	#13	Str.	1685 Avg. ⑫

	BAR LIST–ONE ABUTMENT 18 THRU 24 SPANS				
	MARK	NO.	SIZE	FORM	LENGTH
7.8m Rdy.	B1	5	#29	Str.	8200
10.2m Rdy.	B1	5	#29	Str.	10 600
	B2	①	#13	Str.	950
7.8m Rdy.	B3	4	#32	Str.	8200
10.2m Rdy.	B3	4	#32	Str.	10 600
7.8m Rdy.	BH1	14	#13	Str.	8200
10.2m Rdy.	BH1	14	#13	Str.	10 600
7.8m Rdy.	BV1	27	#13	Str.	2485 Avg. ④
10.2m Rdy.	BV1	35	#13	Str.	2495 Avg. ⑤
7.8m Rdy.	BV2	27	#16	Str.	2485 Avg. ④
10.2m Rdy.	BV2	35	#16	Str.	2495 Avg. ⑤
	P1	12	#13	Bnt.	2040
	P2	16	#13	Bnt.	1570
	S	29	#13	Bnt.	3460
	S	37	#13	Bnt.	3460
	WH1	8	#13	Str.	4250
	WH2	14	#19	Str.	4250
	WH3	8	#19	Str.	4250
	WH4	16	#19	Str.	2885 Avg. ⑧
	WH5	8	#19	Str.	2735 Avg. ⑨
	WH6	4	#19	Str.	3360
	WH7	4	#19	Bnt.	1840
	WP1	10	#13	Bnt.	1880
	WP2	2	#19	Str.	1485
	WP3	2	#19	Str.	1235
	WT	26	#19	Bnt.	2675
	WV1	20	#13	Str.	2720
	WV2	40	#13	Str.	1910 Avg. ⑬

	BAR LIST–ONE ABUTMENT 26 THRU 32 SPANS				
	MARK	NO.	SIZE	FORM	
7.8m Rdy.	B1	5	#29	Str.	8200
10.2m Rdy.	B1	5	#29	Str.	10 600
	B2	①	#13	Str.	950
7.8m Rdy.	B3	4	#32	Str.	8200
10.2m Rdy.	B3	4	#32	Str.	10 600
7.8m Rdy.	BH1	16	#13	Str.	8200
10.2m Rdy.	BH1	16	#13	Str.	10 600
7.8m Rdy.	BV1	27	#13	Str.	2710 Avg. ⑥
10.2m Rdy.	BV1	35	#13	Str.	2720 Avg. ⑦
7.8m Rdy.	BV2	27	#16	Str.	2710 Avg. ⑥
10.2m Rdy.	BV2	35	#16	Str.	2720 Avg. ⑦
	P1	12	#13	Bnt.	2040
	P2	16	#13	Bnt.	1570
7.8m Rdy.	S	29	#13	Bnt.	3460
10.2m Rdy.	S	37	#13	Bnt.	3460
	WH1	8	#13	Str.	4700
	WH2	14	#19	Str.	4700
	WH3	8	#19	Str.	4700
	WH4	20	#19	Str.	3185 Avg. ⑩
	WH5	10	#19	Str.	3035 Avg. ⑪
	WH6	4	#19	Str.	3860
	WH7	4	#19	Bnt.	1840
	WP1	10	#13	Bnt.	1880
	WP2	2	#19	Str.	1490
	WP3	2	#19	Str.	1240
	WT	32	#19	Bnt.	2675
	WV1	20	#13	Str.	3030
	WV2	48	#13	Str.	2065 Avg. ⑭

NOTES:
All traffic rail bars shall be in place before wingwalls are poured.

APPROVED BY BRIDGE ENGINEER — DATE

OKLAHOMA DEPT. OF TRANSPORTATION
COUNTY BRIDGE STANDARD (METRIC)

ABUTMENTS FOR P.C. BEAMS
SKEWED 0° – 7.8 m AND 10.2 m RDY

1999 SPECIFICATIONS | APCB1–1 | 00M

ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED. | CB–40M