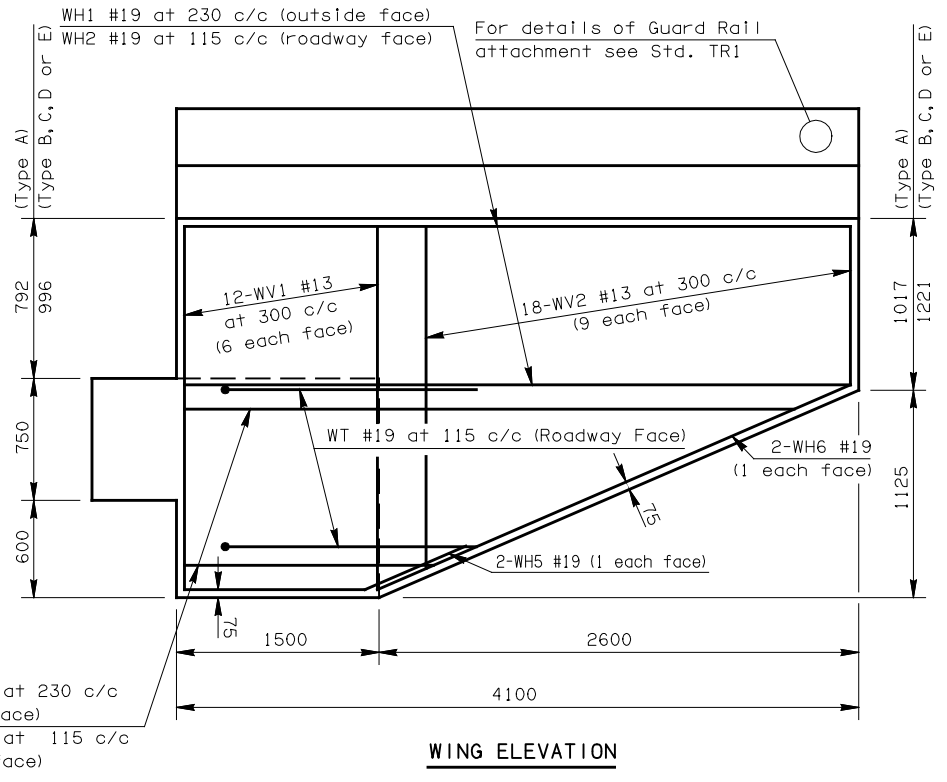
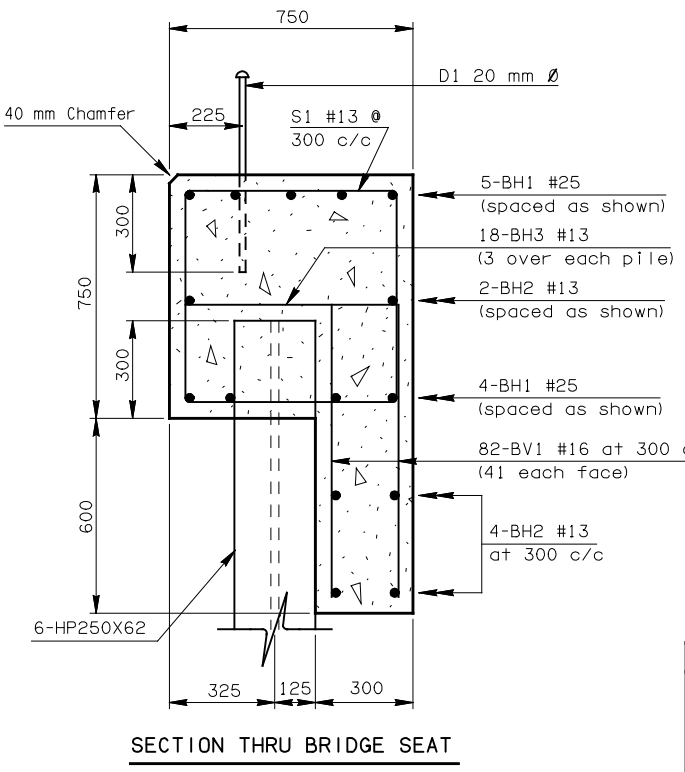
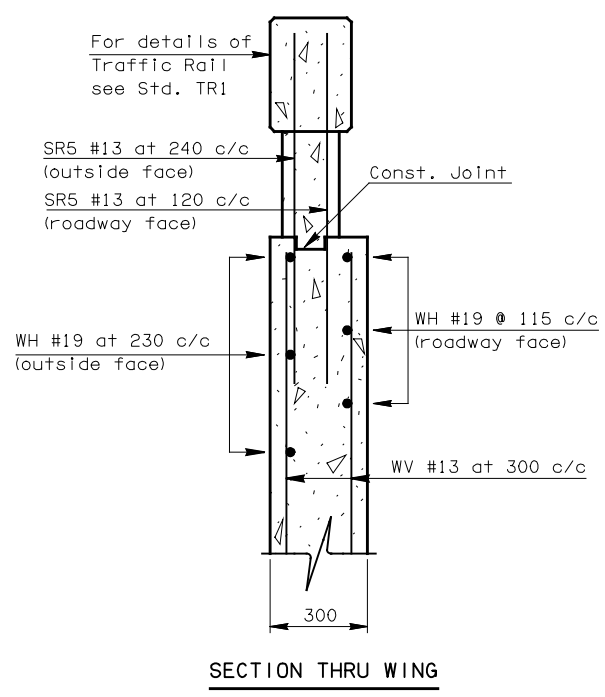
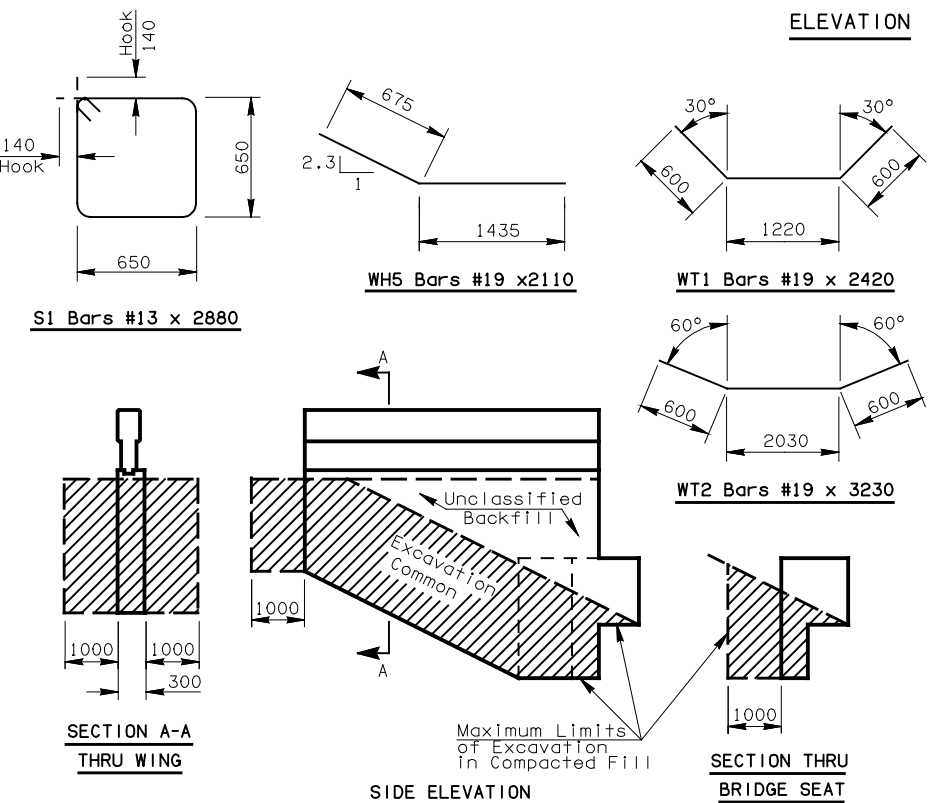
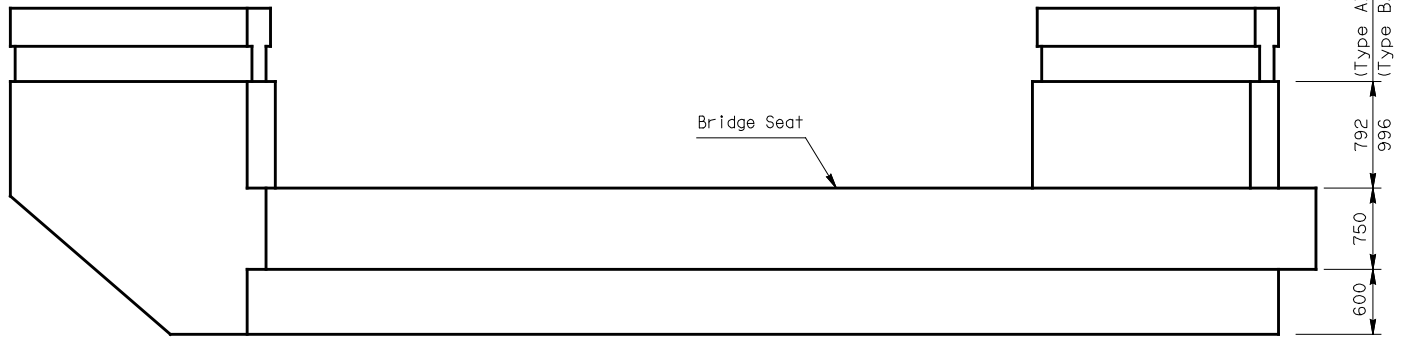
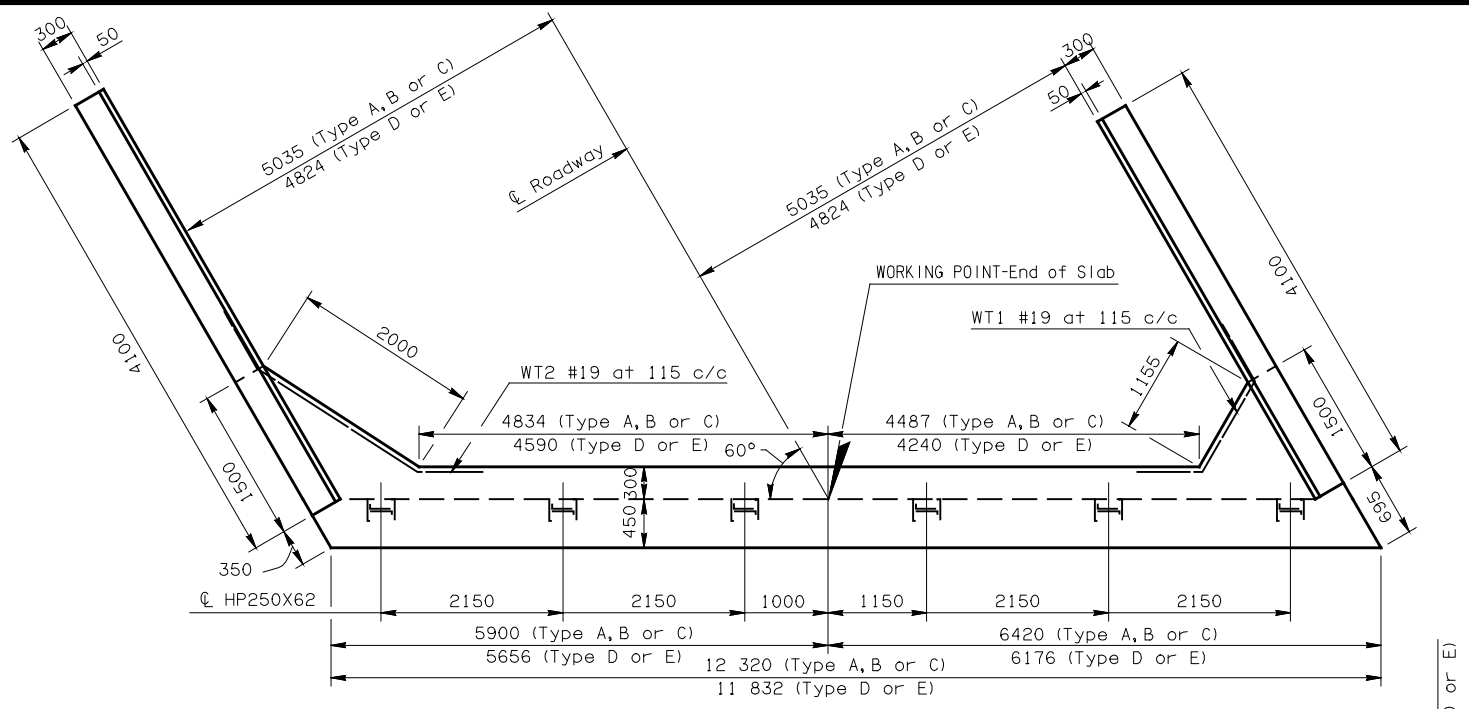


TRAFFIC RAIL: SR5 BARS SHALL BE IN PLACE AND TIED BEFORE WINGWALLS ARE POURED

REV. NO.	DESCRIPTION	REVISIONS	DATE



QUANTITIES - ONE ABUTMENT

ITEM	UNIT	TYPE A	TYPE B OR C	TYPE D OR E
Unclassified Backfill	m <sup>3</sup>	14	20	19
Substr. Excav. Common	m <sup>3</sup>	57	60	59
Concrete Rail	m	8.2	8.2	8.2
Class A Concrete	m <sup>3</sup>	14.8	15.3	15.0
Reinforcing Steel	kg	1580	1645	1620

BAR LIST - ONE ABUTMENT TYPE A

MARK	NO.	SIZE	SHAPE	LENGTH
BH1	9	#25	Str.	12 220
BH2	6	#13	Str.	12 220
BH3	18	#13	Str.	650
BV1	82	#16	Str.	925
D1	25	20mm	Str.	600
S1	40	#13	Bnt.	2880
SR5	106	#13	Str.	1085
WH1	10	#19	Str.	4000
WH2	18	#19	Str.	4000
WH3	8	#19	Str.	2755 Avg.
WH4	16	#19	Str.	2885 Avg.
WH5	4	#19	Bnt.	2110
WH6	4	#19	Str.	2785
WT1	10	#19	Bnt.	2420
WT2	10	#19	Bnt.	3230
WV1	24	#13	Str.	2020
WV2	36	#13	Str.	1420 Avg.

BAR LIST - ONE ABUTMENT TYPE B OR C

MARK	NO.	SIZE	SHAPE	LENGTH
BH1	9	#25	Str.	12 220
BH2	6	#13	Str.	12 220
BH3	18	#13	Str.	650
BV1	82	#16	Str.	925
D1	25	20mm	Str.	600
S1	40	#13	Bnt.	2880
SR5	106	#13	Str.	1085
WH1	12	#19	Str.	4000
WH2	22	#19	Str.	4000
WH3	8	#19	Str.	2755 Avg.
WH4	16	#19	Str.	2885 Avg.
WH5	4	#19	Bnt.	2110
WH6	4	#19	Str.	2785
WT1	10	#19	Bnt.	2420
WT2	10	#19	Bnt.	3230
WV1	24	#13	Str.	2220
WV2	36	#13	Str.	1625 Avg.

BAR LIST - ONE ABUTMENT TYPE D OR E

MARK	NO.	SIZE	SHAPE	LENGTH
BH1	9	#25	Str.	11 730
BH2	6	#13	Str.	11 730
BH3	18	#13	Str.	650
BV1	82	#16	Str.	925
D1	23	20mm	Str.	600
S1	40	#13	Bnt.	2880
SR5	106	#13	Str.	1085
WH1	12	#19	Str.	4000
WH2	22	#19	Str.	4000
WH3	8	#19	Str.	2755 Avg.
WH4	16	#19	Str.	2885 Avg.
WH5	4	#19	Bnt.	2110
WH6	4	#19	Str.	2785
WT1	10	#19	Bnt.	2420
WT2	10	#19	Bnt.	3230
WV1	24	#13	Str.	2220
WV2	36	#13	Str.	1625 Avg.

FOUNDATION LOAD

SPAN LENGTH (m)	AVERAGE LOAD (kN/pile)
6	180
8	220
10	240
12	260
14	280
16	310

- ① Smooth Dowels with Metal Expansion Cap, spaced as Shown on Std. TB1.
- ② Varies from 1955 to 3555
- ③ Varies from 1955 to 3815
- ④ Varies from 900 to 1940
- ⑤ Varies from 1105 to 2145

APPROVED BY BRIDGE ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**OKLAHOMA DEPT. OF TRANSPORTATION**  
**COUNTY BRIDGE STANDARD (METRIC)**  
**DETAILS OF ABUTMENT FOR DOUBLE TEES**  
**SKewed 30° LF - 10 m NOMINAL CLEAR ROADWAY**

1999 SPECIFICATIONS TTA5-1 00M  
 ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED. CB-19M