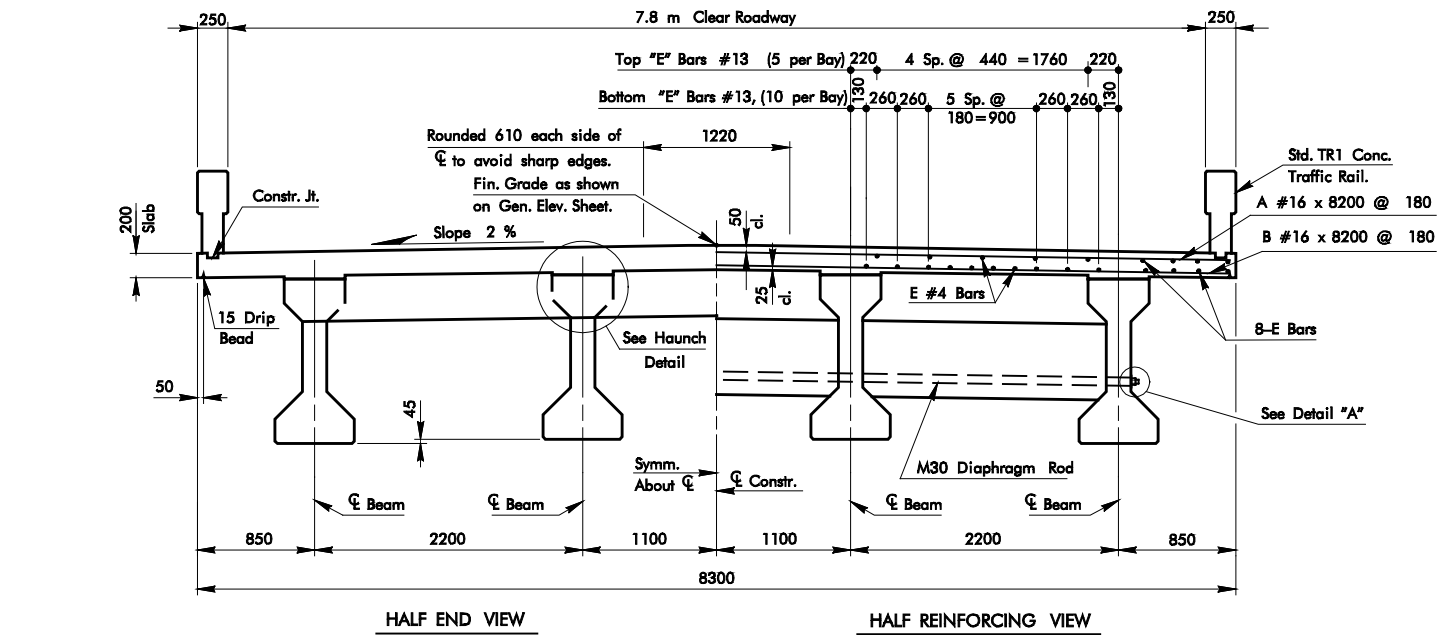
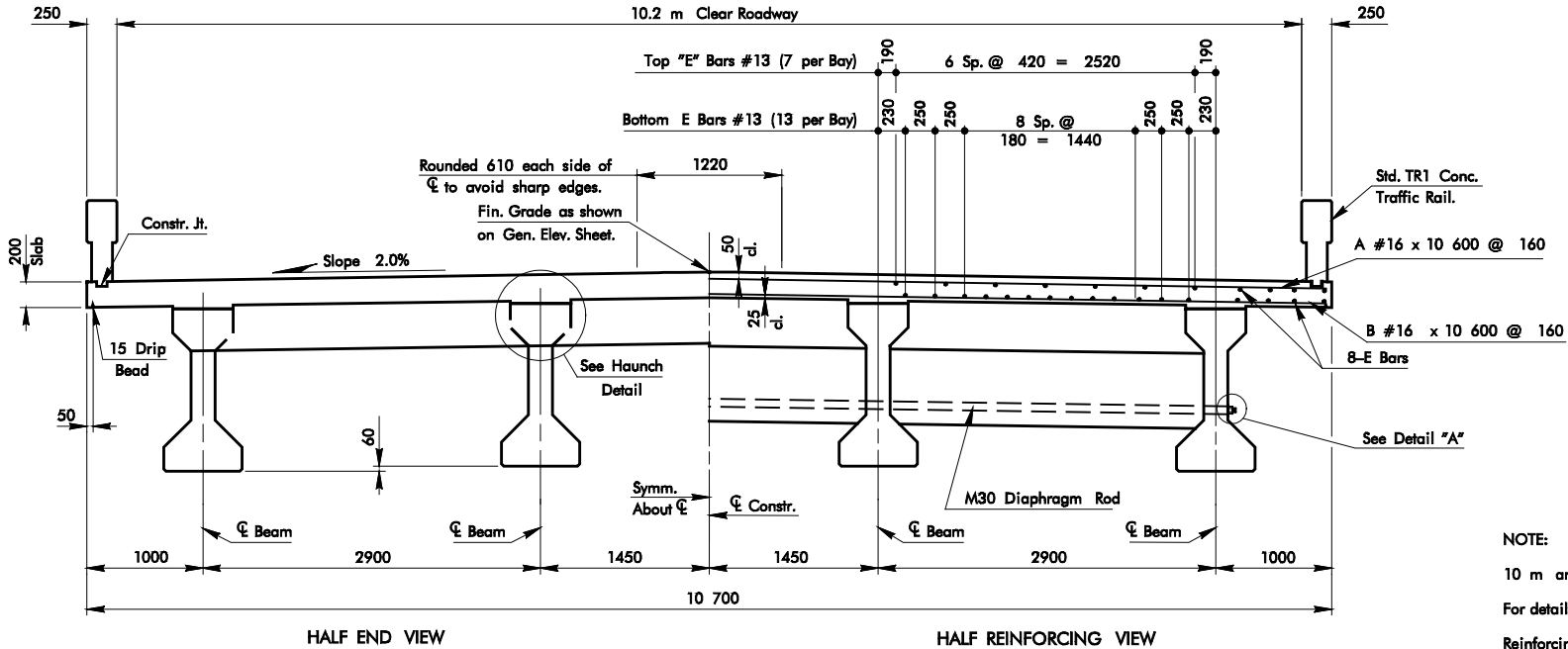




7.8 m CLEAR ROADWAY
10 m THRU 32 m SPANS

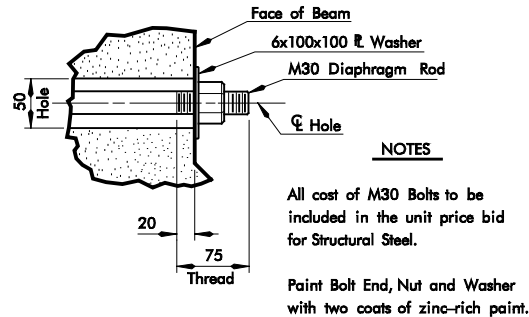


10.2 m CLEAR ROADWAY
10 m THRU 32 m SPANS

FLOOR NOTE:
Transverse reinforcing steel in the floor shall begin and end with A and B bars a maximum of 50 mm from end of concrete panels. All longitudinal reinforcing steel bars in top of slab shall be supported on approved continuous metal high chairs (CHC). The spacing of the metal chairs shall be a maximum of 1200 mm on centers. Bottom layer of reinforcing steel shall be supported on approved metal slab bolsters (SB) spaced a maximum of 1200 mm on centers. Longitudinal bars shall begin and end 25 mm from ends of slab. Concrete in each span shall be poured in a continuous pour.

DESIGN DATA

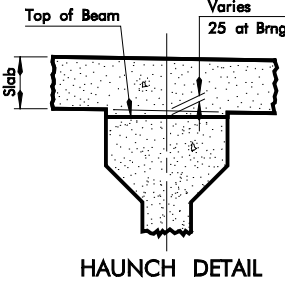
CONCRETE: CLASS "AA" 28 MPa
REINFORCING STEEL: 420 MPa.
STRUCTURAL STEEL: 250 MPa.
LOADING: MS 18+1 kPa Future Wearing Surface



DETAIL "A"

NOTES

All cost of M30 Bolts to be included in the unit price bid for Structural Steel.
Paint Bolt End, Nut and Washer with two coats of zinc-rich paint.



NOTE:
10 m and 12 m spans will not have intermediate diaphragms.
For details of expansion device, see Std. SEJ-CO.
Reinforcing steel in Concrete Traffic Rails (SR1 & SR2 Bars) must be added to quantities shown.
Reinforcing Steel quantities shown do not include weight of E1 Bars over FIX-FIX Piers. The following quantities must be added:
80 kg for 7.8 m Clear Rdy.
90 kg for 10.2 m Clear Rdy.

Quantities shown for Single Span Bridge are calculated with both ends fixed.
The quantities shown for Class AA Concrete includes concrete haunches over beams.
Structural Steel quantities shown do not include quantities for Steel Angle Bumpers. The following quantities must be added:

Roadway	0° Skew	30° Skew
7.8 m	85 kg	98 kg
10.2 m	112 kg	129 kg

(Quantities shown are for 2 Angle Bumpers)

TABLE OF QUANTITIES - 7.8 m CLEAR ROADWAY - 0° SKEW

SPAN LGTH.	1 SPAN P.C. BEAMS	1 SPAN STR. STEEL	1 INTERIOR SPAN CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-FIX) CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-EXP) CLASS AA CONC.	REINF. STEEL	SINGLE SPAN BRIDGE CLASS AA CONC.	REINF. STEEL
m	m	kg	m ³	kg	m ³	kg	m ³	kg	m ³	kg
10	39.00	479	17.5	2202	18.3	2305	18.2	2237	19.1	2419
12	47.00	479	20.9	2628	21.7	2731	21.6	2664	22.5	2845
14	55.00	479	24.8	3072	25.6	3175	25.5	3107	26.4	3289
16	63.00	479	28.2	3473	29.0	3576	28.9	3508	29.8	3690
18	71.00	529	32.0	3885	32.8	3988	32.7	3920	33.6	4102
20	79.00	529	35.4	4314	36.2	4417	36.1	4349	37.0	4531
22	87.00	529	38.8	4715	39.6	4818	39.5	4750	40.4	4932
24	95.00	529	42.2	5116	43.0	5219	42.9	5152	43.8	5333
26	103.00	580	46.1	5530	46.9	5632	46.8	5565	47.7	5747
28	111.00	580	49.5	5931	50.4	6034	50.2	5966	51.2	6148
30	119.00	580	53.0	6358	53.8	6460	53.7	6393	54.6	6548
32	127.00	580	56.4	6759	57.2	6862	57.1	6794	58.0	6976

TABLE OF QUANTITIES - 7.8 m CLEAR ROADWAY - 30° SKEW

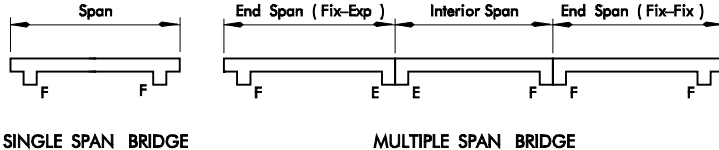
SPAN LGTH.	1 SPAN P.C. BEAMS	1 SPAN STR. STEEL	1 INTERIOR SPAN CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-FIX) CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-EXP) CLASS AA CONC.	REINF. STEEL	SINGLE SPAN BRIDGE CLASS AA CONC.	REINF. STEEL
m	m	kg	m ³	kg	m ³	kg	m ³	kg	m ³	kg
10	38.84	539	17.6	2205	18.5	2320	18.4	2246	19.4	2452
12	46.84	539	21.0	2606	21.9	2721	21.8	2647	22.8	2853
14	54.84	539	24.9	3050	25.8	3165	25.7	3090	26.7	3296
16	62.84	539	28.3	3451	29.2	3566	29.1	3492	30.1	3698
18	70.84	597	32.1	3864	33.1	3979	32.9	3904	34.1	4110
20	78.84	597	35.5	4292	36.5	4407	36.3	4333	37.5	4539
22	86.84	597	38.9	4694	39.9	4808	39.7	4734	40.9	4940
24	94.84	597	42.3	5095	43.3	5210	43.1	5135	44.3	5341
26	102.84	656	46.3	5535	47.2	5650	47.1	5575	48.1	5781
28	110.84	656	49.7	5936	50.6	6051	50.5	5976	51.5	6182
30	118.84	656	53.1	6337	54.0	6452	53.9	6378	54.9	6584
32	126.84	656	56.5	6738	57.5	6853	57.3	6779	58.5	6985

TABLE OF QUANTITIES - 10.2 m CLEAR ROADWAY - 0° SKEW

SPAN LGTH.	1 SPAN P.C. BEAMS	1 SPAN STR. STEEL	1 INTERIOR SPAN CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-FIX) CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-EXP) CLASS AA CONC.	REINF. STEEL	SINGLE SPAN BRIDGE CLASS AA CONC.	REINF. STEEL
m	m	kg	m ³	kg	m ³	kg	m ³	kg	m ³	kg
10	39.00	491	22.5	3048	23.6	3181	23.4	3095	24.7	3332
12	47.00	491	26.9	3627	27.9	3760	27.8	3673	28.9	3911
14	55.00	491	31.9	4229	33.0	4362	32.8	4275	34.1	4513
16	63.00	491	36.3	4808	37.3	4941	37.2	4854	38.3	5091
18	71.00	541	41.1	5368	42.2	5501	42.0	5414	43.3	5651
20	79.00	541	45.5	5980	46.6	6113	46.4	6027	47.7	6264
22	87.00	541	49.9	6526	50.9	6659	50.8	6573	51.9	6810
24	95.00	541	54.2	7105	55.3	7238	55.1	7151	56.4	7389
26	103.00	591	59.2	7666	60.3	7799	60.1	7712	61.4	7949
28	111.00	591	63.6	8245	64.6	8378	64.5	8291	65.6	8528
30	119.00	591	68.0	8791	69.0	8924	68.9	8837	70.0	9074
32	127.00	591	72.3	9369	73.4	9503	73.2	9416	74.5	9653

TABLE OF QUANTITIES - 10.2 m CLEAR ROADWAY - 30° SKEW

SPAN LGTH.	1 SPAN P.C. BEAMS	1 SPAN STR. STEEL	1 INTERIOR SPAN CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-FIX) CLASS AA CONC.	REINF. STEEL	1 END SPAN (FIX-EXP) CLASS AA CONC.	REINF. STEEL	SINGLE SPAN BRIDGE CLASS AA CONC.	REINF. STEEL
m	m	kg	m ³	kg	m ³	kg	m ³	kg	m ³	kg
10	38.84	551	22.7	2862	23.9	3011	23.7	2915	25.1	3181
12	46.84	551	27.0	3318	28.2	3467	28.1	3372	29.4	3638
14	54.84	551	32.1	3856	33.3	4005	33.1	3910	34.5	4176
16	62.84	551	36.4	4313	37.6	4462	37.4	4367	38.8	4632
18	70.84	609	41.3	4809	42.5	4958	42.3	4862	43.7	5128
20	78.84	609	45.7	5299	46.9	5448	46.7	5353	48.1	5619
22	86.84	609	50.0	5781	51.2	5930	51.1	5835	52.4	6101
24	94.84	609	54.4	6238	55.6	6387	55.4	6291	56.8	6557
26	102.84	667	59.4	6736	60.6	6885	60.4	6789	61.8	7055
28	110.84	667	63.8	7192	65.0	7341	64.8	7246	66.2	7512
30	118.84	667	68.2	7674	69.4	7823	69.2	7728	70.6	7994
32	126.84	667	72.5	8131	73.7	8280	73.6	8184	74.9	8450



SPAN CONFIGURATION

APPROVED BY BRIDGE ENGINEER DATE

OKLAHOMA DEPT. OF TRANSPORTATION
COUNTY BRIDGE STANDARD (METRIC)

DECK SECTIONS FOR P.C. BEAMS