DISCLAIMER:
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DATE:
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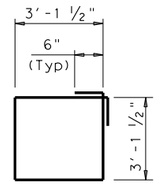
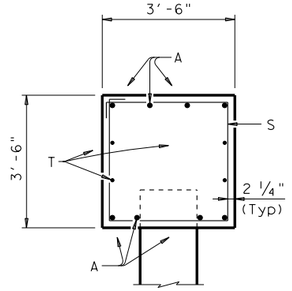
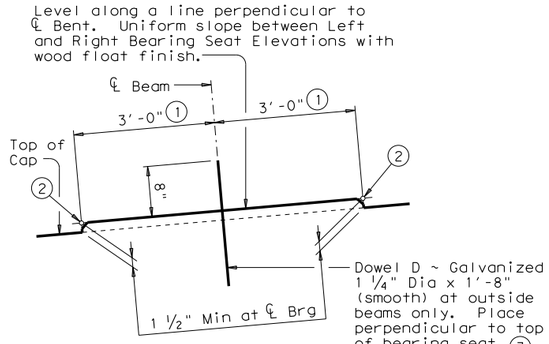


BARS S

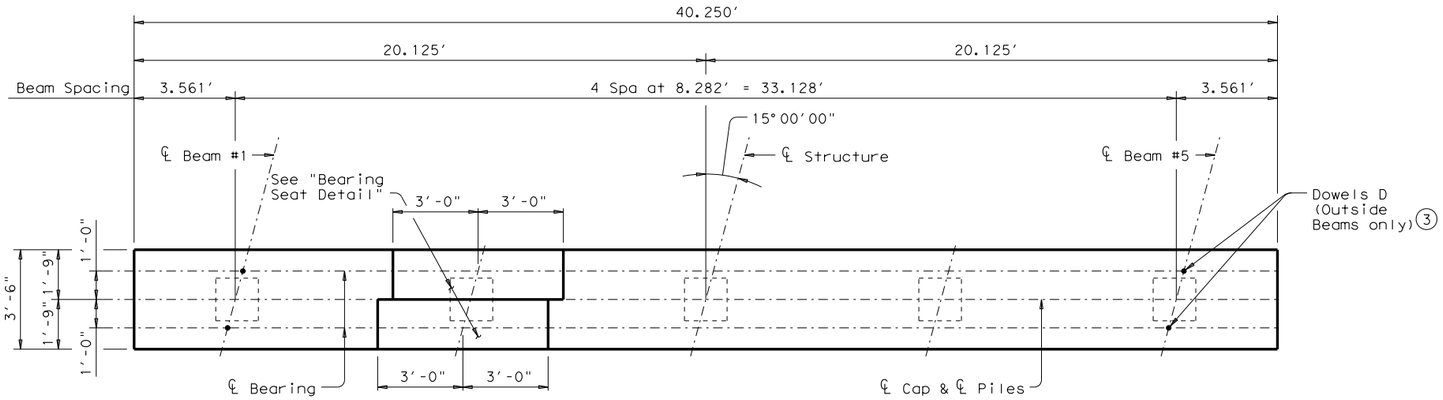


SECTION A-A

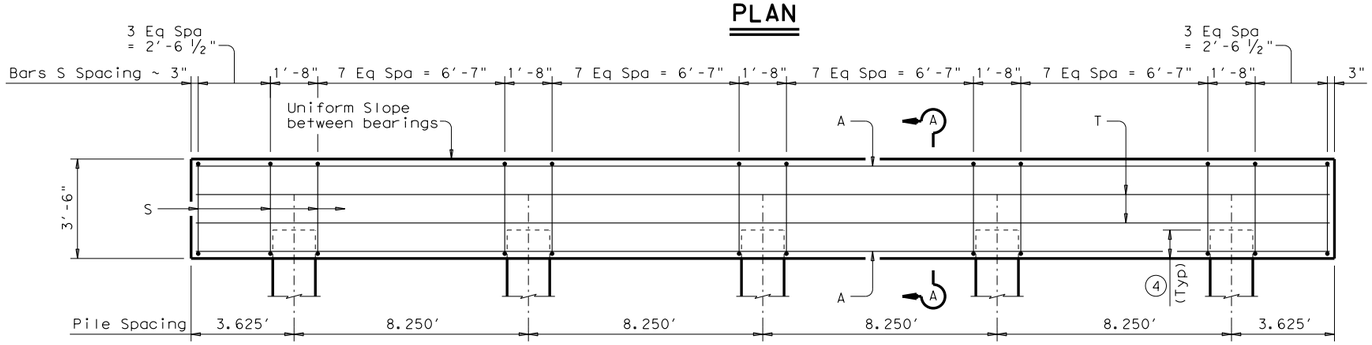


BEARING SEAT DETAIL

(Bearing surface must be clean and free of all loose material before placing bearing pad.)



PLAN



ELEVATION

TABLE OF MAXIMUM ALLOWABLE EXPOSED PILE HEIGHTS AND PILE LOADS (5)

Pile Type		Maximum Height	Maximum Load
Concrete	Steel	Ft	(Tons/Pile)
18" Sq	HP14x117 (6)	20	90
20" Sq	HP18x135	24	110
24" Sq	(7)	24	140

FOUNDATION LOADS

Span Average	Minimum Concrete Pile Size	5XB20 & 5XB28 X-Beams Pile Loads
Ft	In.	(Tons/Pile)
40	18	69
45		75
50		82
55	20	88
60		94
65		100
70	24	106
75		112
80		118
85		124

TABLE OF ESTIMATED QUANTITIES

40' THRU 85' SPANS

Bar	No.	Size	Length	Weight
A	8	#9	39'-11"	1,086
D (3)	4	1 ¼"D	1'-8"	28
S	40	#5	13'-6"	563
T	4	#5	39'-11"	167
Reinforcing Steel			Lb	1,844
Class "C" Concrete			CY	18.7

(1) Measured along ℄ of Bearing.

(2) Right and left elevations and locations are provided elsewhere.

(3) Omit Dowels D at end of units. Adjust reinforcing steel total accordingly.

(4) See FD standard.

(5) In areas of very soft soil or where scour is anticipated, maximum allowable exposed pile heights shall be evaluated by the Engineer prior to use of this standard.

(6) When HP14 x 117 steel piling is specified in the plans, the Contractor has the option of furnishing either HP14 x 117 or HP16 x 101 steel piling.

(7) Where no steel HP section is shown, a suitable HP equivalent to the square concrete pile has not been evaluated.

GENERAL NOTES:

Designed according to AASHTO LRFD Specifications.

For Bents supporting unequal spans, the shorter span cannot be less than 80 percent of the longer span.

These details are limited to an 85' maximum span length.

Concrete strength f'c = 3,600 psi.

All Cap reinforcing must be Grade 60.

Galvanize dowel bars D.

See Bridge Layout for piling size and length.

See Foundation Details standard FD for all foundation details and notes.

Bent selected shall be based on the average span length rounded up to the next 5 Ft increment.

Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.

These bent details may be used with Standard SXB-38-15 only.

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

INTERIOR TRESTLE BENTS

TYPE 5XB20 AND 5XB28 PRESTR CONC X-BEAMS

38' ROADWAY *15°SKEW*

BTXB-38-15

FILE: xbstde84.dgn	DN: JMH	CK: AM	DW: JTR	CK: JMH
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REVISIONS	DIST	COUNTY		SHEET NO.