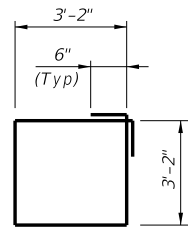
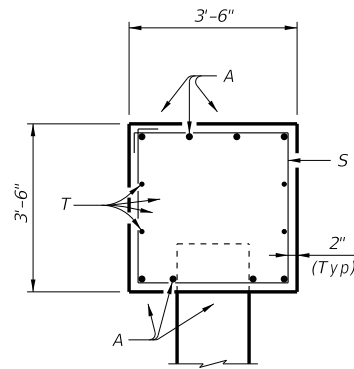


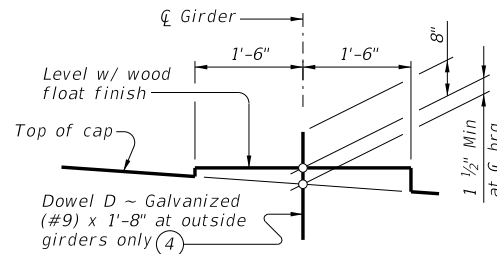
DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



BARS S



SECTION A-A



BEARING SEAT DETAIL

(Remove all loose material and clean bearing surface before placing the bearing pad.)

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 (5)	20	90
20" Sq	HP18x135	24	110
24" Sq	(3)	24	140

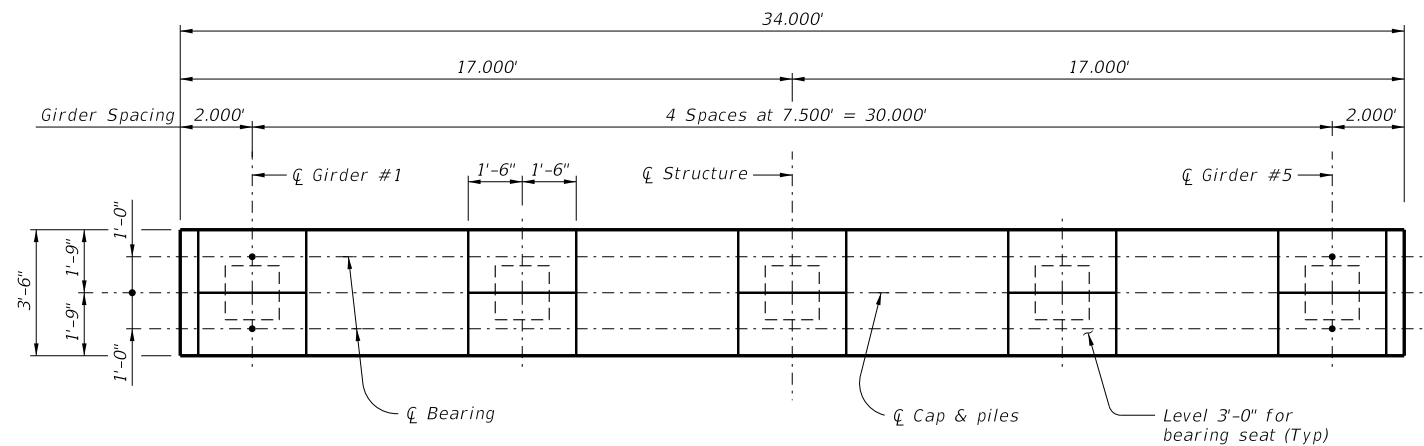
FOUNDATION LOADS

Span Average	Minimum Concrete Pile Size	Tx28, Tx34 & Tx40 GIRDERS	Tx46 & Tx54 GIRDERS
		Pile Loads	Pile Loads
Ft	In.	(Tons/Pile)	(Tons/Pile)
40	18	58	61
45		63	67
50		69	73
55		74	78
60	20	79	84
65		84	90
70		90	95
75		95	101
80	24	100	106
85		105	112

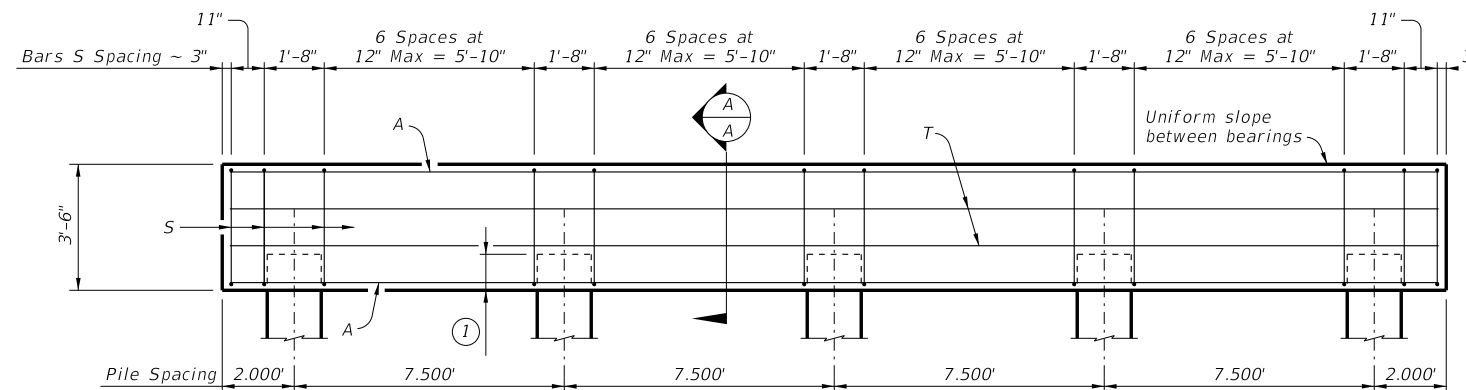
TABLE OF ESTIMATED QUANTITIES

Bar	No.	Size	Length	Weight
A	8	#9	33'-8"	916
D (4)	4	#9	1'-8"	23
S	32	#5	13'-8"	456
T	4	#5	33'-8"	140
Reinforcing Steel			Lb	1,535
Class "C" Concrete (Cap)			CY	15.7

- See the Common Foundation Details (FD) standard.
- In areas of very soft soil or where scour is anticipated, maximum allowable exposed pile heights must be evaluated by the Engineer prior to use of this standard.
- Where no steel HP section is shown, a suitable HP equivalent to the square concrete pile has not been evaluated.
- Omit dowels at end of multi-span units. Adjust reinforcing steel total accordingly.
- When HP14x117 steel piling is specified in the plans, the Contractor has the option of furnishing either HP14x117 or HP16x101 steel piling.



PLAN



ELEVATION

Note: For piling larger than 18", adjust Bars S as required to avoid piling.

MATERIAL NOTES:

- Provide Class C concrete (f'c = 3,600 psi).
- Provide Class C (HPC) concrete if shown elsewhere in the plans.
- Provide Grade 60 reinforcing steel.
- Galvanize dowel bars D.

GENERAL NOTES:

- Designed according to AASHTO LRFD Bridge Design 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. See Bridge Layout for piling size and length.
- See Common Foundation Details (FD) standard sheet for all foundation details and notes.
- Bent selected must be based on the average span length rounded up to the next 5 ft increment.
- These bent details may be used with standard SIG-34 only.

Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bar dimensions shown are out-to-out of bar.

HL93 LOADING



INTERIOR TRESTLE BENTS
TY TX28 THRU TX54
PRESTR CONC I-GIRDERS
34' ROADWAY

BTIG-34

FILE: IG-BTIG3400-23.dgn	DN: TAR	CK: VC	DW: SFS	CK: TAR
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REVISIONS	DIST	COUNTY	SHEET NO.	

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