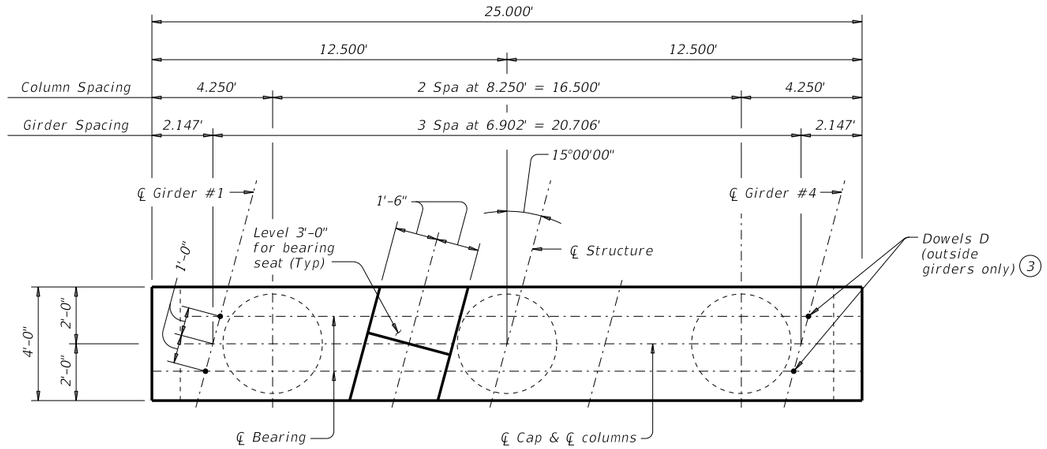
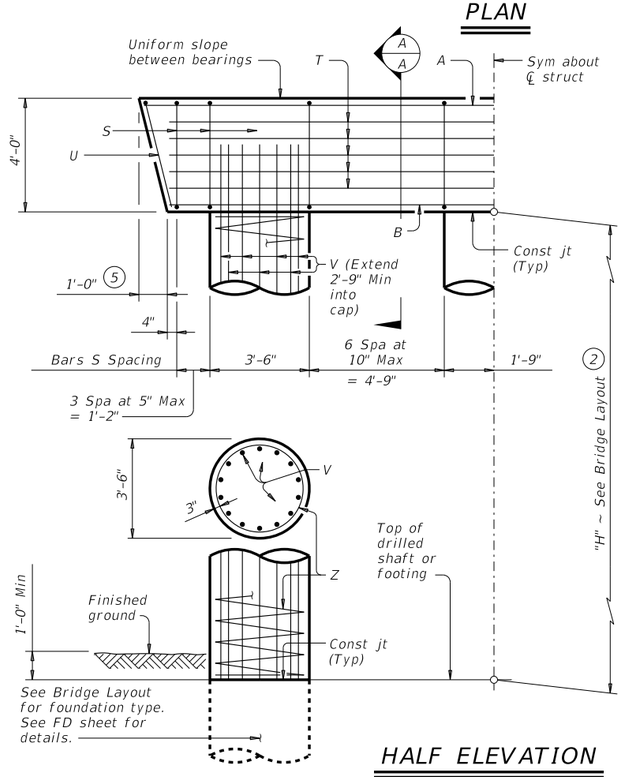
DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

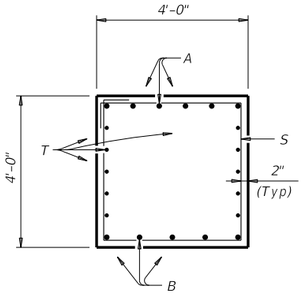
DATE:
FILE:



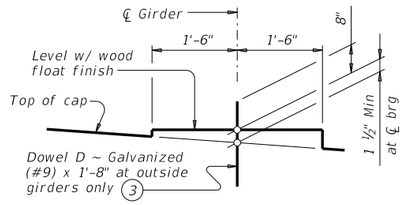
PLAN



HALF ELEVATION

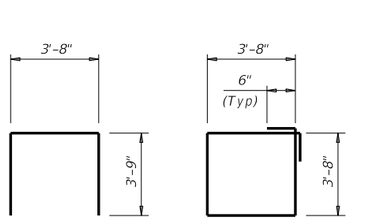


SECTION A-A



BEARING SEAT DETAIL

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



1. Quantities shown are based on an "H" value of 36'. For each linear foot variation in "H" value, make the following adjustments:
   Bars V length, 1'-0"
   Bars Z length, 37'-9"
   Reinforcing steel, 219 Lb
   Class "C" conc (col), 1.07 CY
2. This standard may not be used for "H" heights exceeding 36'. In areas of very soft soil or where scour is anticipated, allowable "H" heights must be evaluated by the Engineer prior to the use of this standard.
3. Omit Dowels D at end of multi-span units. Adjust reinforcing steel total accordingly.
4. Foundation Loads based on "H" = 36'.
5. Measured parallel to top of cap cross-slope.

TABLE OF ESTIMATED QUANTITIES 1

Bar	No.	Size	Length	Weight
A	6	#11	24'- 6"	781
B	5	#11	22'- 9"	604
D 3	4	#9	1'- 8"	23
S	22	#5	15'- 8"	359
T	10	#5	22'- 9"	237
U	2	#5	11'- 2"	23
V	42	#9	38'- 9"	5,534
Z	3	#4	1,387'- 3"	2,780
Reinforcing Steel			Lb	10,341
Class "C" Concrete (Cap)			CY	14.5
Class "C" Concrete (Col)			CY	38.5

FOUNDATION LOADS 4

Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)
		4 Pile Ftg
Ft	Tons/Shaft	
60	148	40
65	156	42
70	164	44
75	171	46
80	179	48
85	187	50
90	195	52
95	202	54
100	210	56
105	218	58
110	226	60
115	233	61
120	241	63
125	249	65
130	256	67
135	264	69

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.
See Bridge Layout for foundation type, size and length.
See Common Foundation Details (FD) standard sheet for all foundation details and notes.
See Shear Key (IGSK) standard sheet for all shear key details and notes, if applicable.
Bent selected must 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 SIG-62-24-15 only.

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

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.

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

INTERIOR BENTS
TYPE TX62
PRESTR CONC I-GIRDERS
24' ROADWAY 15° SKEW

BIG-62-24-15

FILE: big22sts-17.dgn	DN: TAR	CK: SDB	DW: JTR	CK: TAR
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	DIST	COUNTY		SHEET NO.