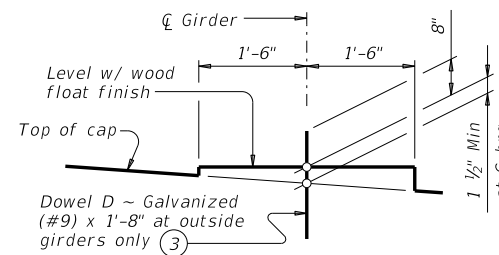
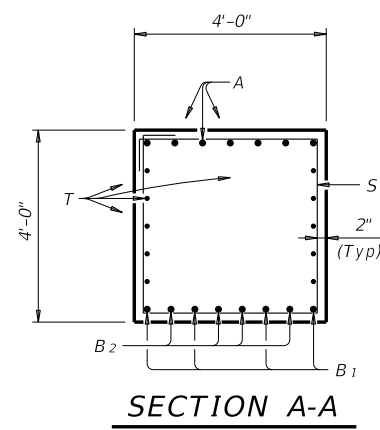
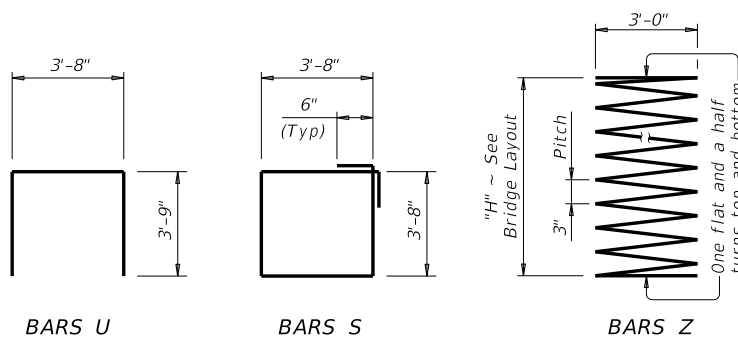
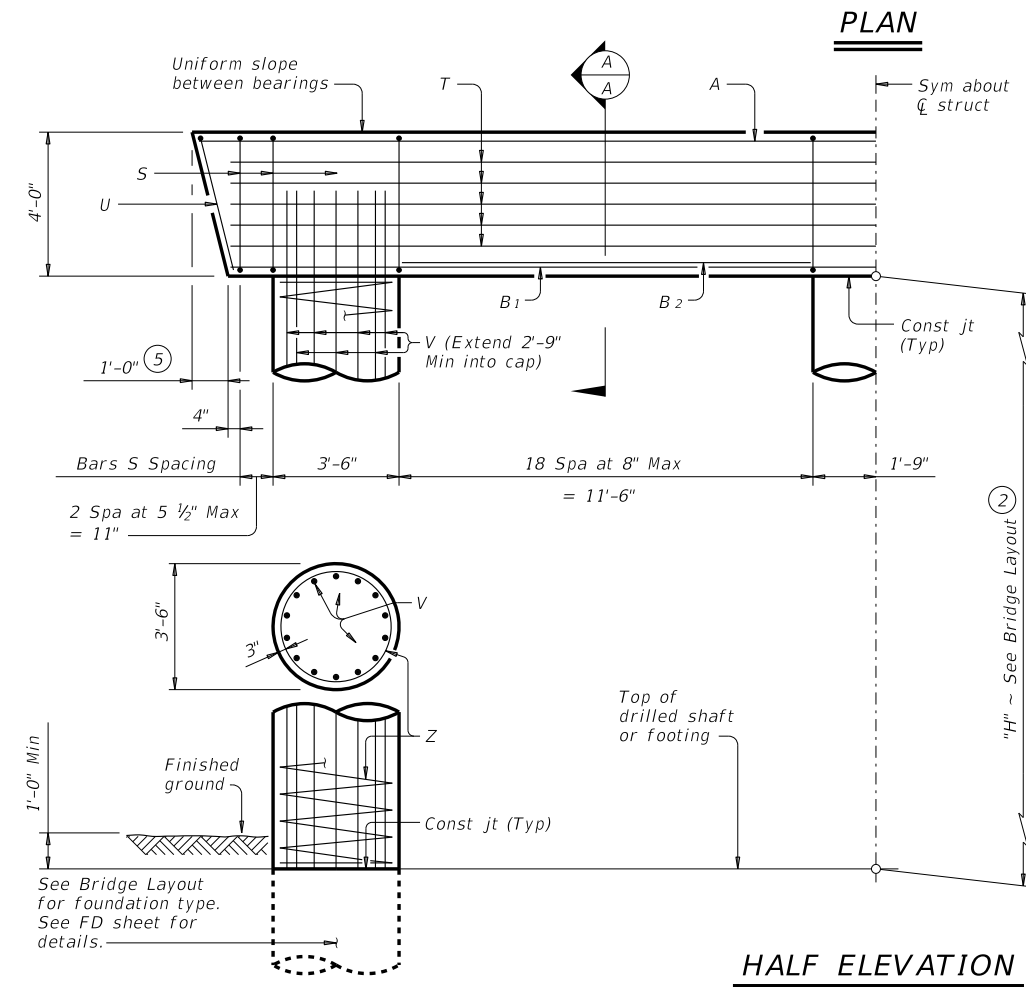
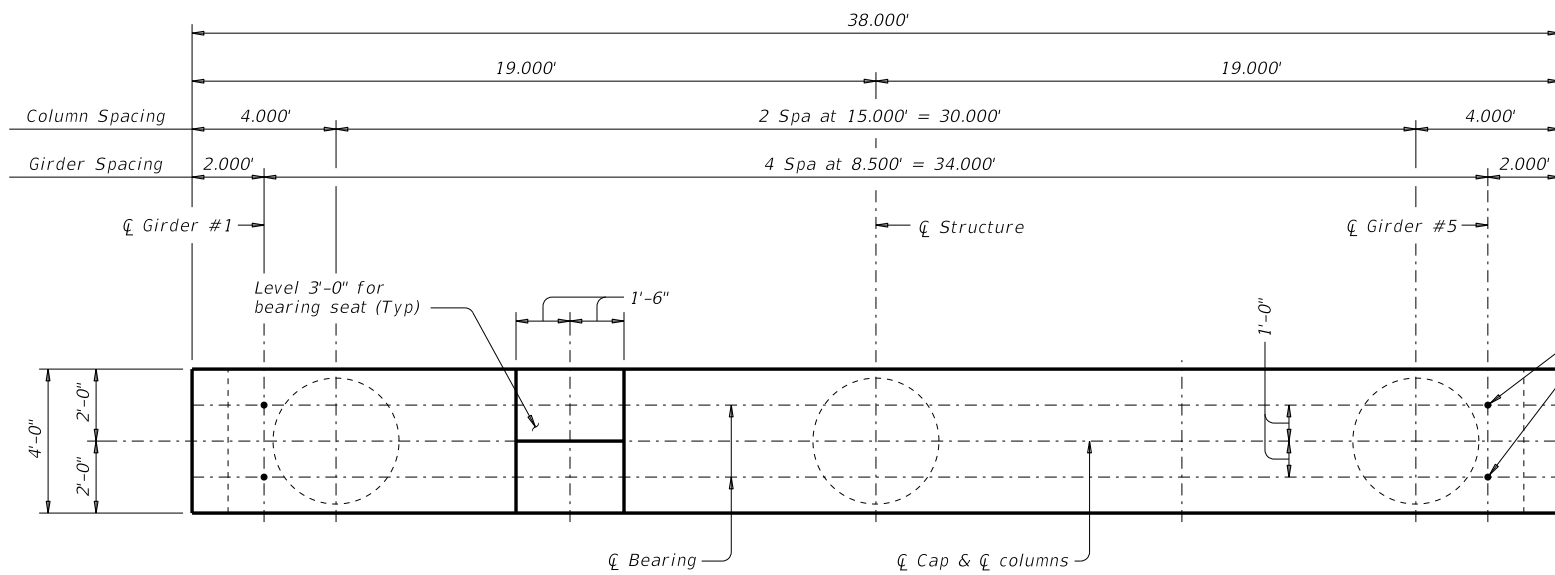


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DATE: FILE:



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	7	#11	37'- 6"	1,395	
B ₁	4	#11	35'- 9"	760	
B ₂	8	#11	11'-6"	489	
D ③	4	#9	1'-8"	23	
S	44	#5	15'- 8"	719	
T	10	#5	35'- 9"	373	
U	2	#5	11'- 2"	23	
V	42	#9	38'- 9"	5,534	
Z	3	#4	1,387'- 3"	2,780	
Reinforcing Steel				Lb	12,096
Class "C" Concrete (Cap)				CY	22.2
Class "C" Concrete (Col)				CY	38.5

FOUNDATION LOADS ④

Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)	
		4 Pile Ftg	5 Pile Ftg
Ft	Tons/Shaft		
60	189	50	41
65	200	53	43
70	210	56	45
75	220	58	47
80	231	61	49
85	241	63	51
90	251	66	53
95	262	69	56
100	272	71	58
105	282	74	60
110	293	76	62
115	303	79	64
120	313	81	66
125	323	84	68
130	334	87	70
135	344	89	72

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. These bent details may be used with standard SIG-62-38 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 is 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
38' ROADWAY

BIG-62-38

FILE: big33sts-17.dgn	DN: TAR	CK: SDB	DW: JTR	CK: TAR
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REVISIONS	DIST	COUNTY	SHEET NO.	