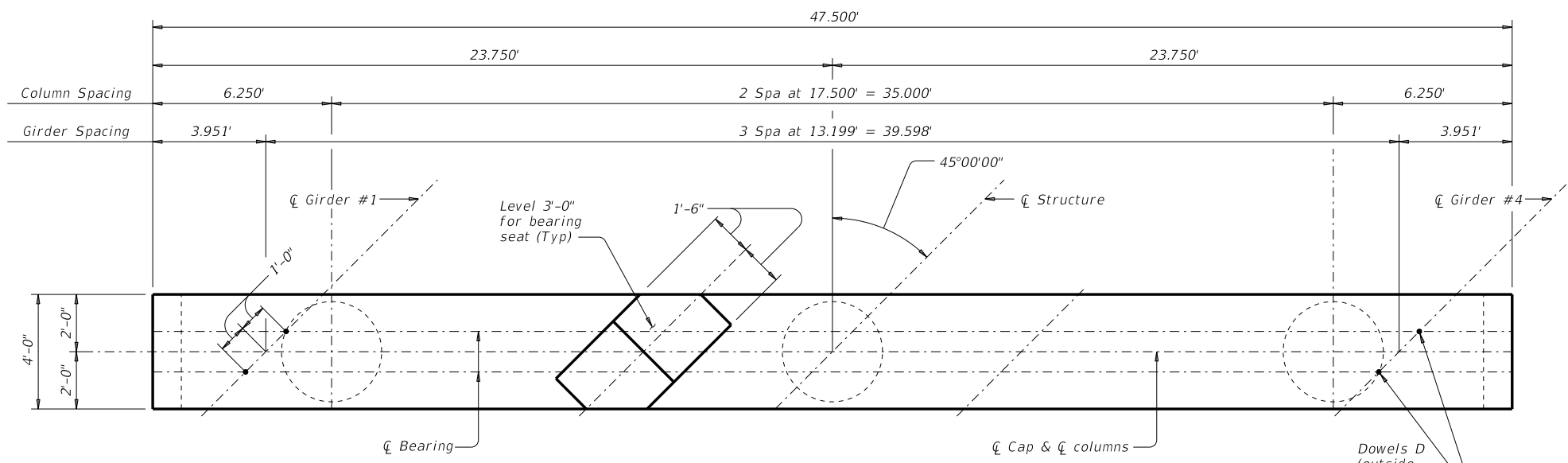
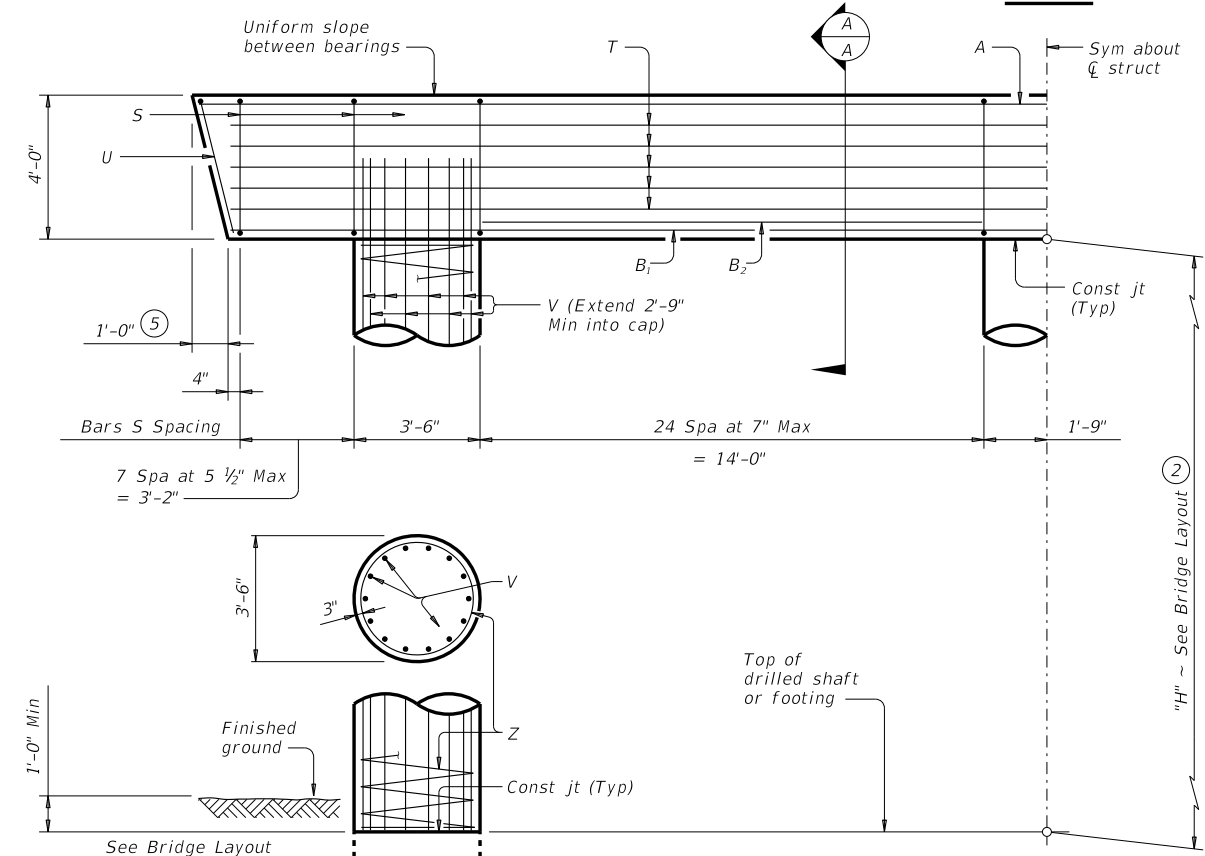


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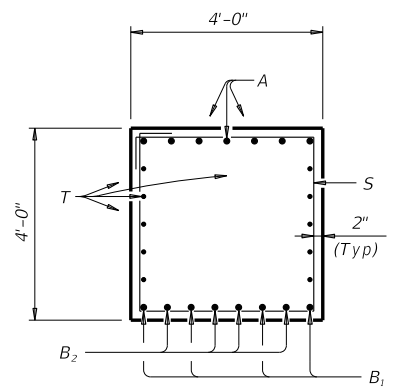
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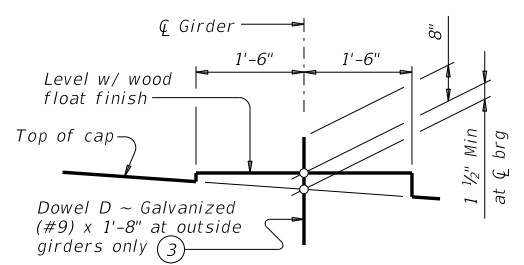
**PLAN**



**HALF ELEVATION**

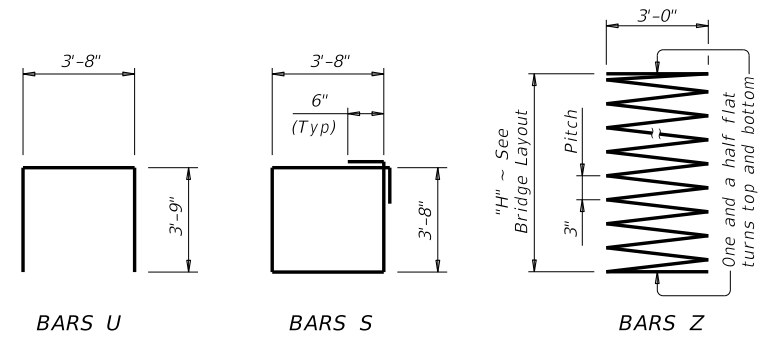


**SECTION A-A**



**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.

Bar	No.	Size	Length	Weight	
A	7	#11	47'- 0"	1,748	
B <sub>1</sub>	4	#11	45'- 3"	962	
B <sub>2</sub>	8	#11	14'- 0"	596	
D ③	4	#9	1'- 8"	23	
S	66	#5	15'- 8"	1,079	
T	10	#5	45'- 3"	472	
U	2	#5	11'- 2"	23	
V	42	#9	38'- 9"	5,534	
Z	3	#4	1387'- 3"	2,780	
Reinforcing Steel				Lb	13,217
Class "C" Concrete (Cap)				CY	27.8
Class "C" Concrete (Col)				CY	38.5

Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)	
		4 Pile Ftg	5 Pile Ftg
Ft	Tons/Shaft		
60	167	45	37
65	175	47	38
70	184	49	40
75	193	51	42
80	201	53	43
85	210	56	45
90	218	58	47
95	227	60	49
100	235	62	50
105	244	64	52
110	252	66	54
115	261	68	55
120	269	70	57
125	278	73	59
130	286	75	60

**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-62-32-45 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  
 32' ROADWAY 45° SKEW

**BIG-62-32-45**

FILE: big52sts-17.dgn	DN: TAR	CK: SDB	DW: JTR	CK: TAR
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REVISIONS	DIST	COUNTY	SHEET NO.	