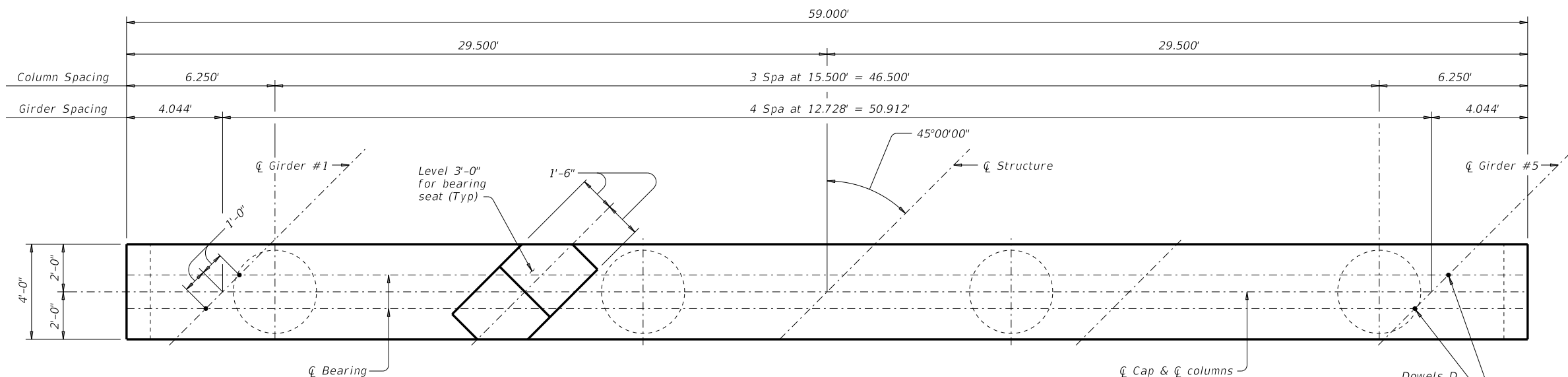
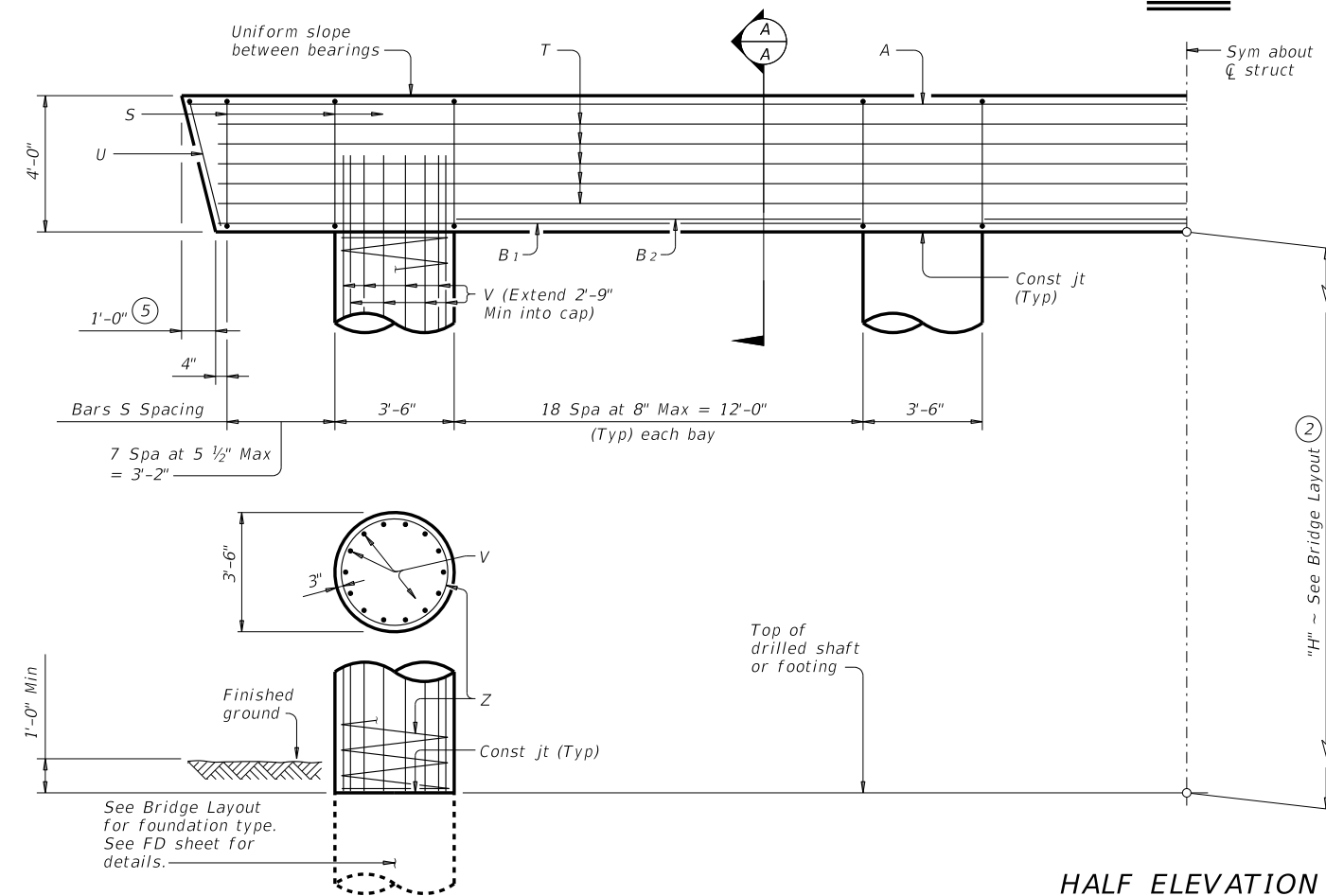


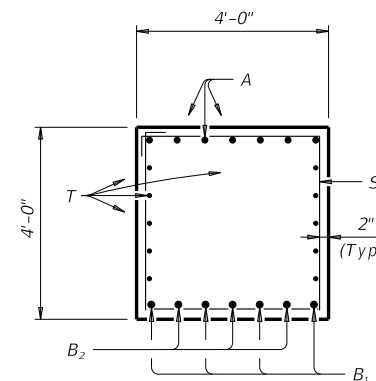
DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



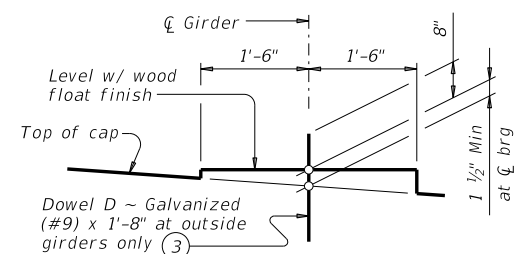
**PLAN**



**HALF ELEVATION**

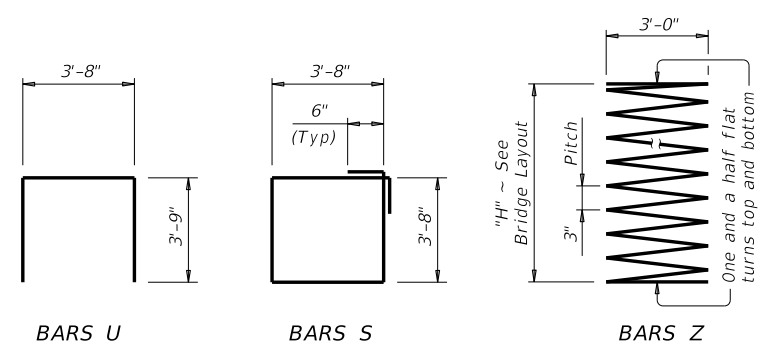


**SECTION A-A**



**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, 291 Lb  
 Class "C" conc (col), 1.43 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	58'- 6"	2,176
B <sub>1</sub>	4	#11	56'- 9"	1,206
B <sub>2</sub>	9	#11	12'- 0"	574
D ③	4	#9	1'-8"	23
S	73	#5	15'- 8"	1,193
T	10	#5	56'- 9"	592
U	2	#5	11'- 2"	23
V	56	#9	38'- 9"	7,378
Z	4	#4	1,387'- 3"	3,707
Reinforcing Steel			Lb	16,872
Class "C" Concrete (Cap)			CY	34.8
Class "C" Concrete (Col)			CY	51.3

FOUNDATION LOADS ④			
Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)	
		4 Pile Ftg	5 Pile Ftg
Ft	Tons/Shaft		
60	157	42	35
65	165	44	36
70	173	46	38
75	180	48	39
80	188	50	41
85	196	52	42
90	204	54	44
95	212	56	46
100	220	58	47
105	228	60	49
110	236	62	50
115	243	64	52
120	251	66	53
125	259	68	55
130	267	70	57

**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 Details (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-62-40-45 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

		<b>Bridge Division Standard</b>
<b>INTERIOR BENTS</b> <b>TYPE TX62</b> <b>PRESTR CONC I-GIRDERS</b> <b>40' ROADWAY 45° SKEW</b> <b>BIG-62-40-45</b>		
FILE: IG-BIG624045-17.dgn	DN: TAR	CK: SDB
©TxDOT August 2017	CON: SECT	JOB: HIGHWAY
REVISIONS	DIST:	COUNTY: SHEET NO.

DATE: FILE: