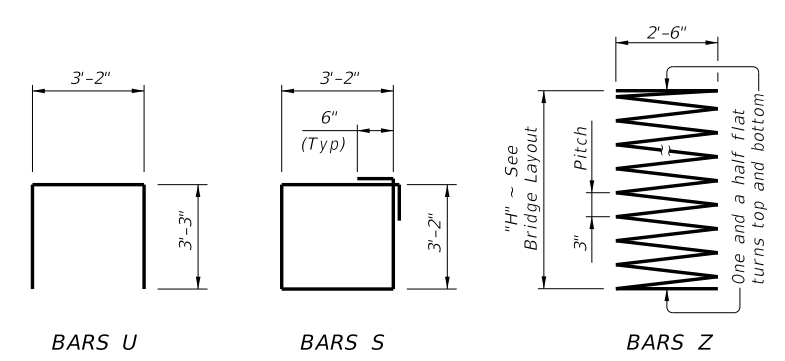
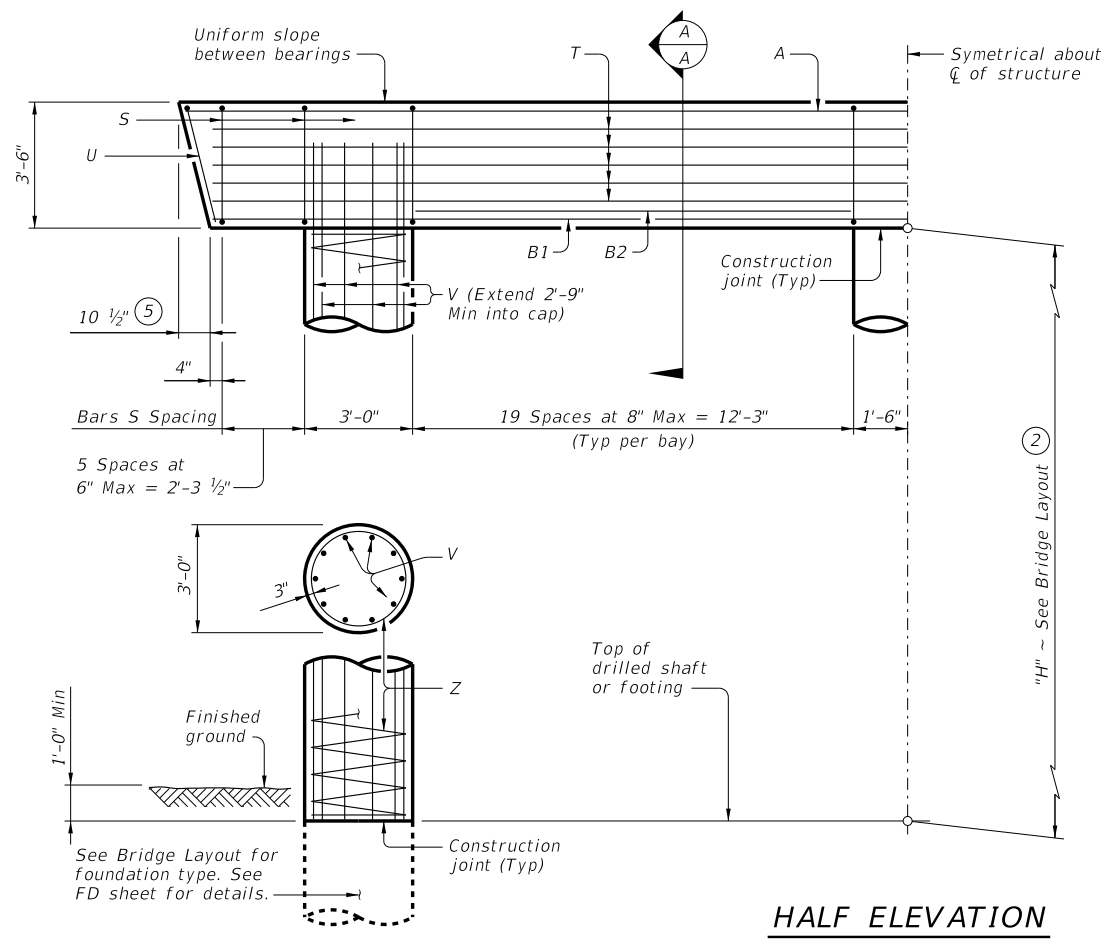
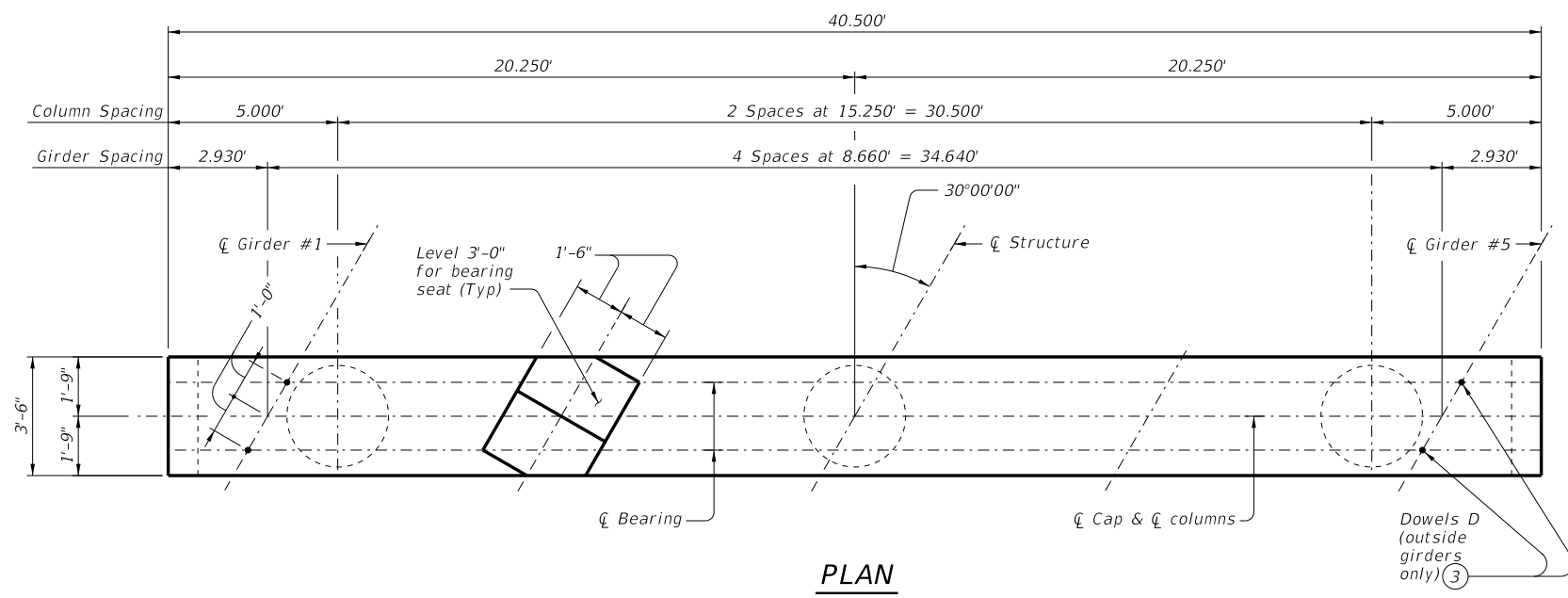
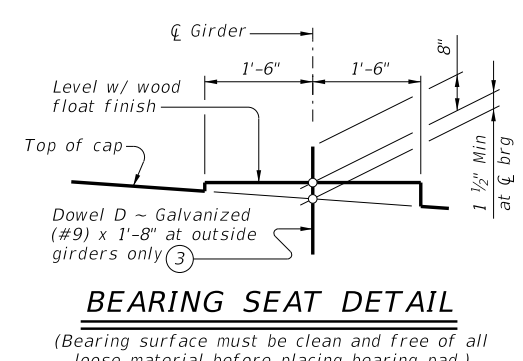
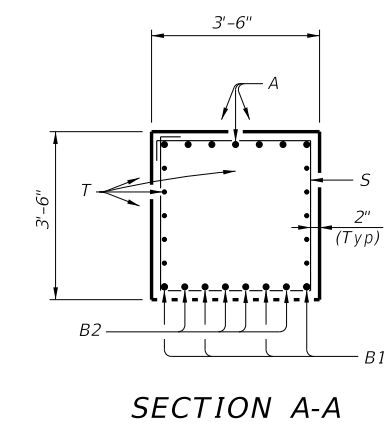


DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



- 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, 31'-5"  
 Reinforcing steel, 165 Lb  
 Class "C" conc (col), 0.78 CY
- 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.
- Omit Dowels D at end of multi-span units. Adjust reinforcing steel total accordingly.
- Foundation Loads based on "H" = 36'.
- Measured parallel to top of cap cross-slope.



**TABLE OF ESTIMATED QUANTITIES (1)**

Bar	No.	Size	Length	Weight	
A	7	#11	40'-0"	1,488	
B1	4	#11	38'-6"	818	
B2	8	#11	12'-3"	521	
D (3)	4	#9	1'-8"	23	
S	52	#5	13'-8"	741	
T	10	#5	38'-6"	402	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	10,280
Class "C" Concrete (Cap)				CY	18.2
Class "C" Concrete (Col)				CY	28.3

**FOUNDATION LOADS (4)**

Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)		
		3 Pile Ftg	4 Pile Ftg	5 Pile Ftg
Ft	Tons/Shaft			
40	123	44	34	28
45	133	48	36	30
50	142	51	39	32
55	152	54	41	34
60	161	57	43	35
65	171	60	46	37
70	180	63	48	39
75	189	66	50	41
80	198	69	53	43
85	208	73	55	45
90	217	76	57	47
95	226	79	60	48
100	235	82	62	50
105	244	85	64	52
110	253	88	66	54
115	263	91	69	56
120	272	94	71	58
125	281	97	73	59

**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.  
 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-34-30 only.

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

HL93 LOADING

Texas Department of Transportation  
 Bridge Division Standard

**INTERIOR BENTS**  
 TYPE TX28 THRU TX54  
 PRESTR CONC I-GIRDERS  
 34' ROADWAY 30° SKEW

**BIG-34-30**

FILE: IG-BIG3430-23.dgn	DN: TAR	CK: VC	DW: SFS	CK: TAR
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REVISIONS				HIGHWAY
		DIST	COUNTY	SHEET NO.

DATE: FILE: