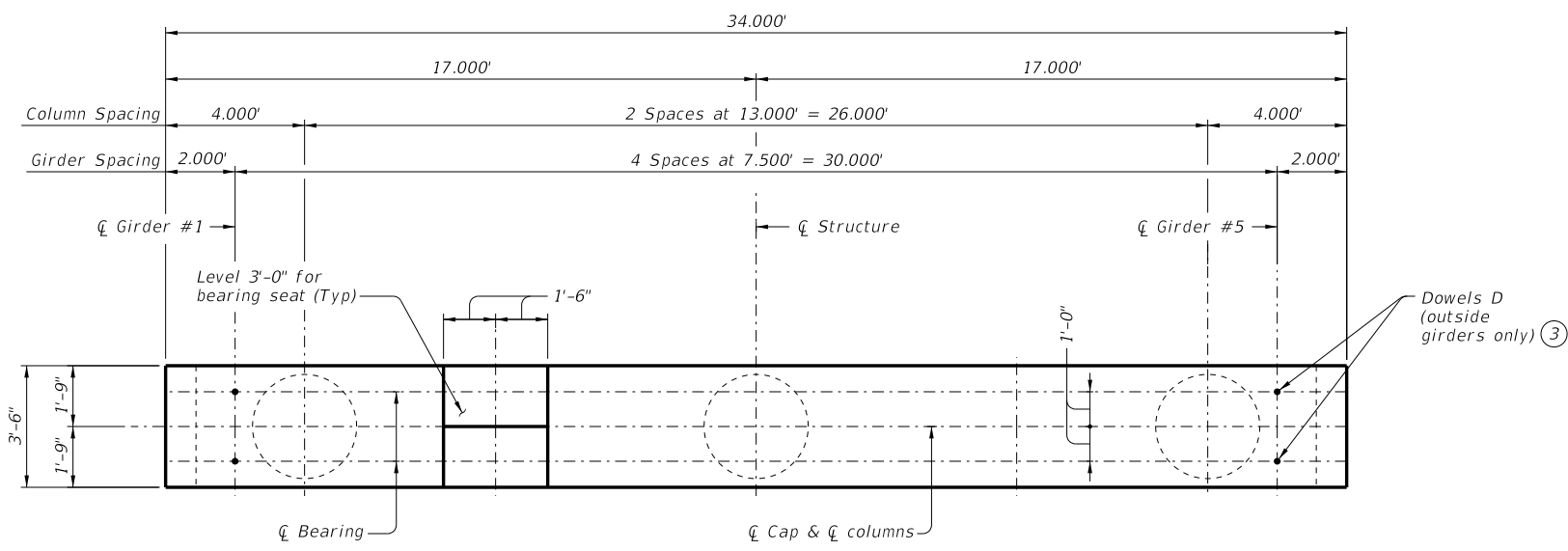
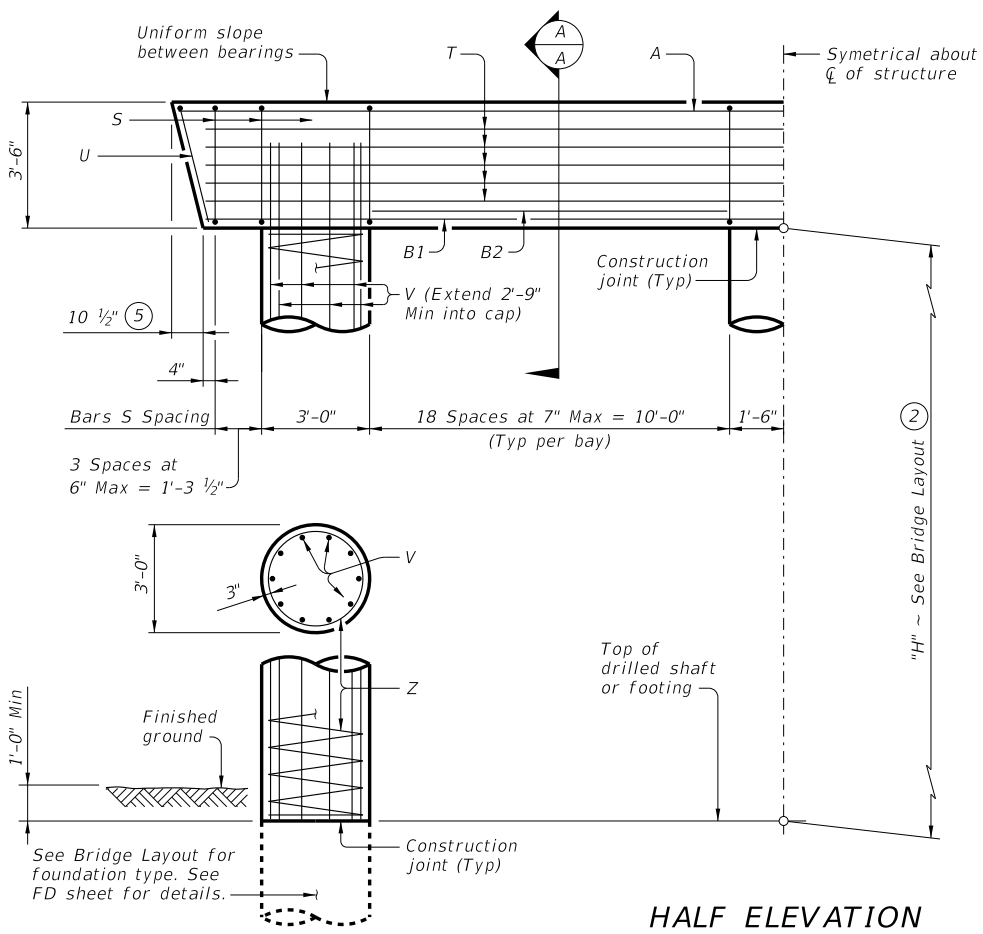


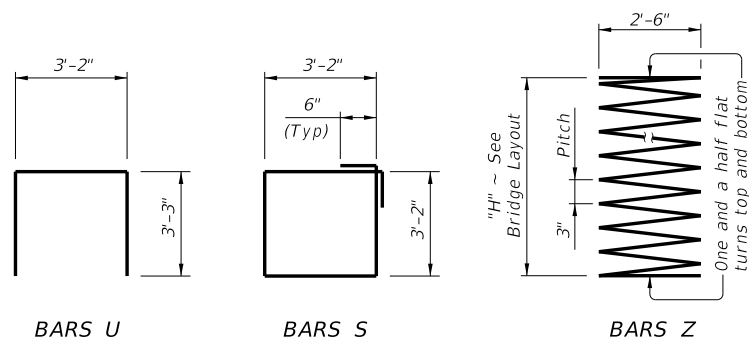
DISCLAIMER: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



PLAN



HALF ELEVATION

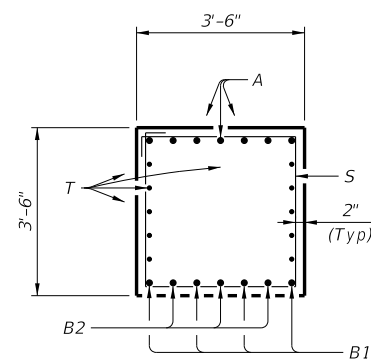


BARS U

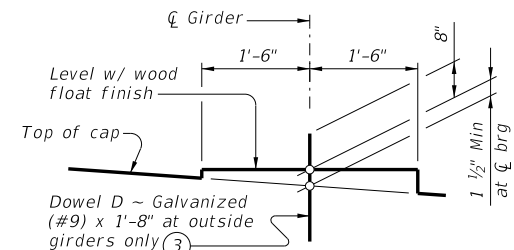
BARS S

BARS Z

- 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, 31'-5"
 Reinforcing steel, 165 Lb
 Class "C" conc (col), 0.78 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.



SECTION A-A



BEARING SEAT DETAIL

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

TABLE OF ESTIMATED QUANTITIES ①

Bar	No.	Size	Length	Weight	
A	7	#11	33'-6"	1,246	
B1	4	#11	32'-0"	680	
B2	6	#11	10'-0"	319	
D ③	4	#9	1'-8"	23	
S	46	#5	13'-8"	656	
T	10	#5	32'-0"	334	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	9,545
Class "C" Concrete (Cap)				CY	15.3
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	121	44	33	27
45	131	47	36	29
50	140	50	38	31
55	150	53	41	33
60	159	56	43	35
65	168	59	45	37
70	178	63	48	39
75	187	66	50	41
80	196	69	52	42
85	205	72	54	44
90	215	75	57	46
95	224	78	59	48
100	233	81	61	50
105	242	84	64	52
110	251	87	66	53
115	261	90	68	55
120	270	93	71	57
125	279	96	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.
 These bent details may be used with standard SIG-34 only.

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

HL93 LOADING

		Bridge Division Standard	
INTERIOR BENTS TYPE TX28 THRU TX54 PRESTR CONC I-GIRDERS 34' ROADWAY			
BIG-34			
FILE: IG-BIG3400-23.dgn	DN: TAR	CK: VC	DW: SFS
©TxDOT	January 2023	CONT SECT	JOB HIGHWAY
REVISIONS		DIST	COUNTY SHEET NO.

DATE: FILE: