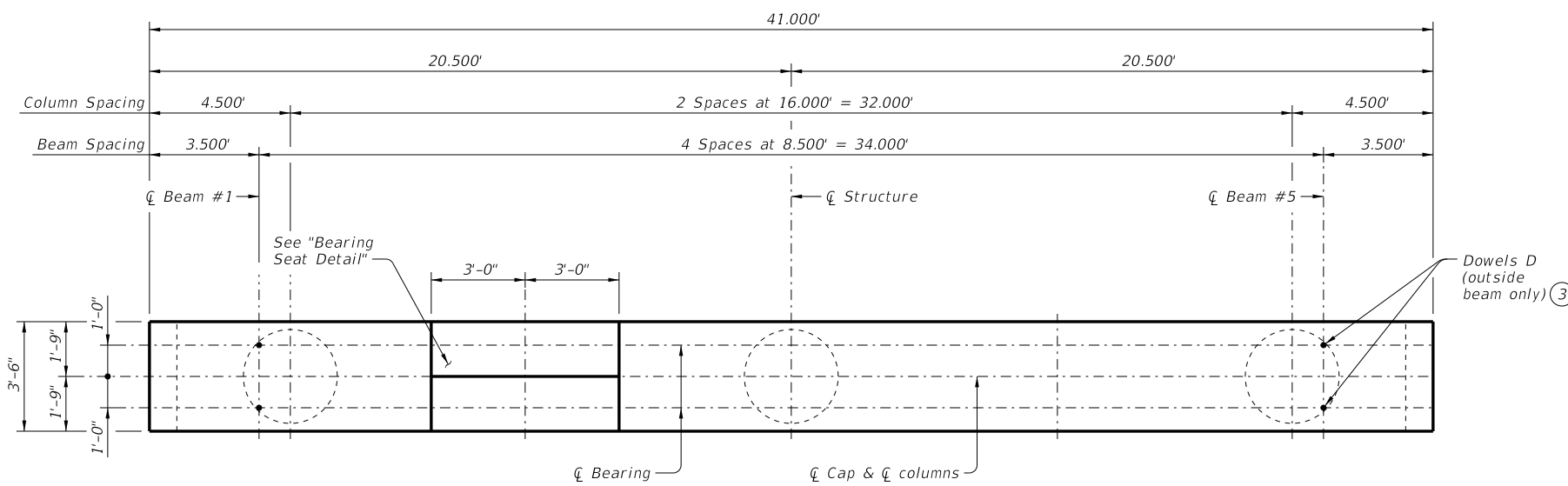
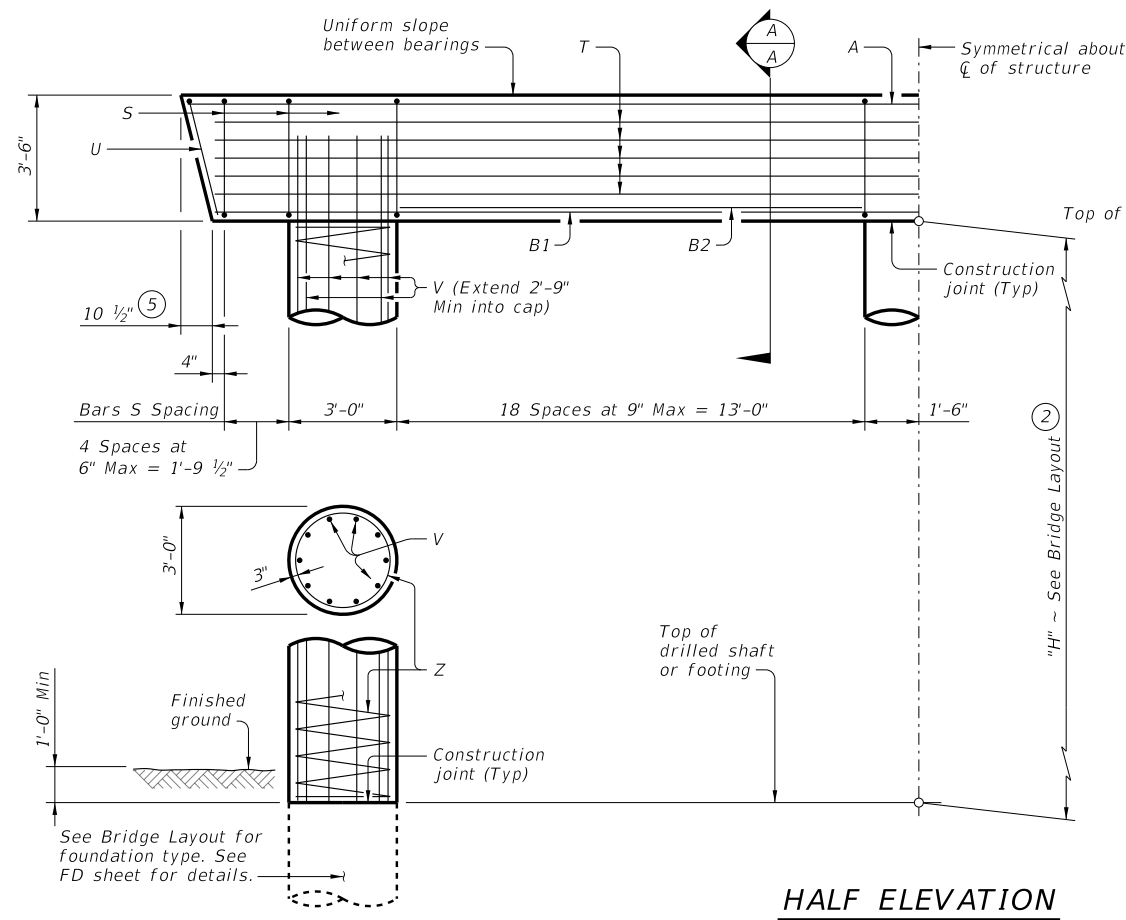


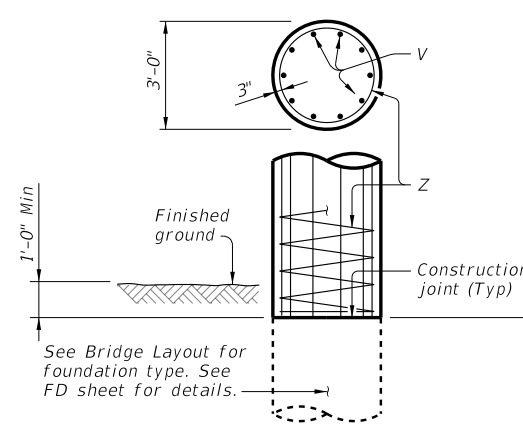
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



PLAN



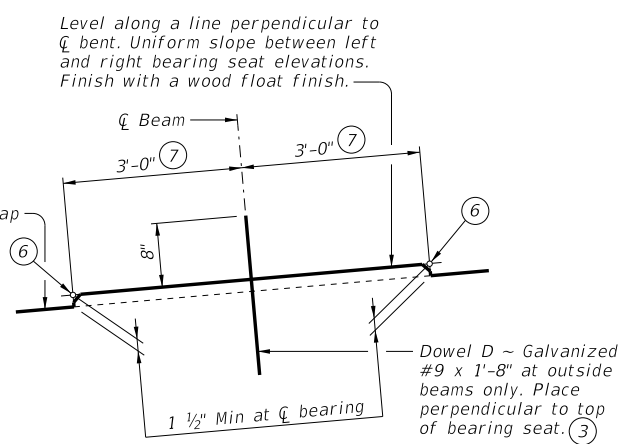
HALF ELEVATION



BARS U

BARS S

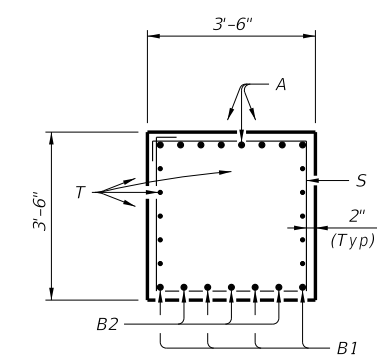
BARS Z



BEARING SEAT DETAIL

(Remove all loose material and clean bearing surface before placing the 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, 31'-5"
Reinforcing Steel, 165 lb
Class C Concrete (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.
- ⑥ Right and left elevations and locations are provided elsewhere.
- ⑦ Measured along \bar{C} of bearing.



SECTION A-A

TABLE OF ESTIMATED QUANTITIES ①

Bar	No.	Size	Length	Weight	
A	8	#11	40'-6"	1,721	
B1	4	#11	39'-0"	829	
B2	6	#11	13'-0"	414	
D ③	4	#9	1'-8"	23	
S	48	#5	13'-8"	684	
T	10	#5	39'-0"	407	
U	2	#5	9'-8"	20	
V	30	#9	38'-9"	3,953	
Z	3	#4	1154'-7"	2,314	
Reinforcing Steel				Lb	10,365
Class "C" Concrete (Cap)				CY	18.7
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	149	54	41	33
45	161	58	44	36
50	173	62	47	38
55	185	66	50	41
60	197	70	53	43
65	209	74	56	45
70	221	78	59	48
75	233	82	62	50
80	244	85	65	53
85	256	89	68	55
90	268	93	70	57
95	279	97	73	60
100	291	101	76	62
105	303	105	79	64

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 for all foundation details and notes. See Shear Key Details (XBSK) 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-foot increment. These bent details may be used with standard SXB-40 only.

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

HL93 LOADING



**INTERIOR BENTS
PRESTR CONC X-BEAMS
(TYPE 5XB20 THROUGH 5XB40)
40' ROADWAY
BXB-40**

FILE: XB-BXB4000-22.dgn	DN: BMP	CK: EFC	DW: JER	CK: BMP
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REVISIONS	DIST	COUNTY	SHEET NO.	

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