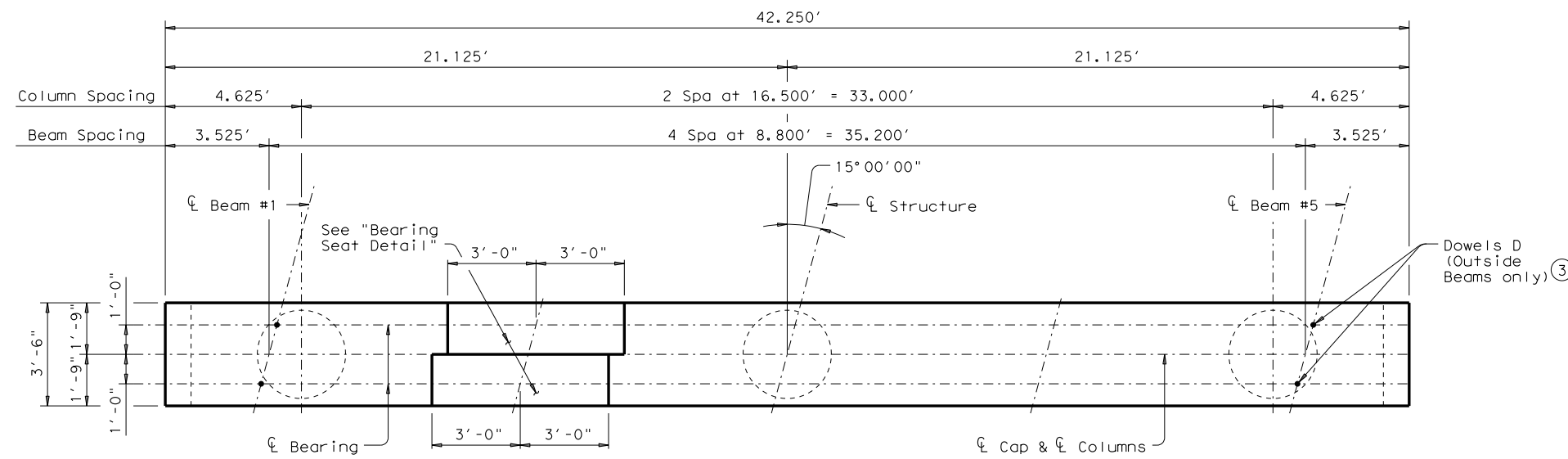
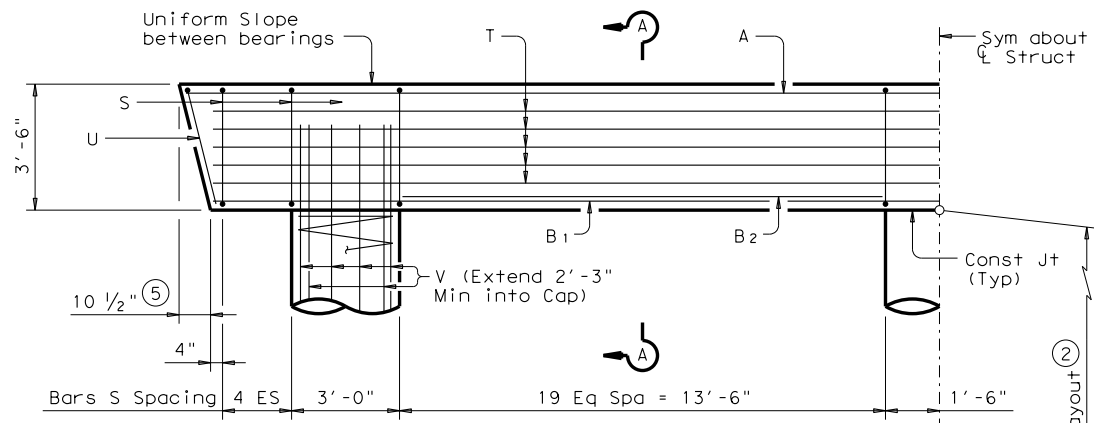


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

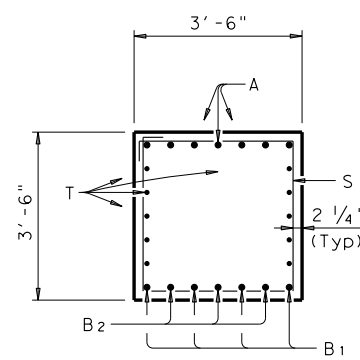
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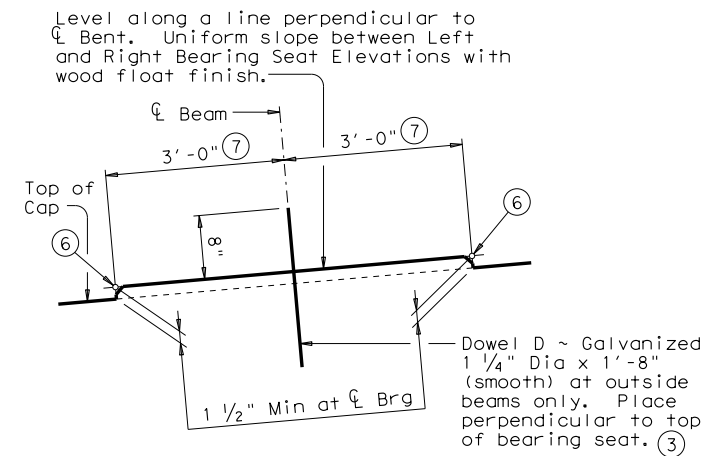
PLAN



HALF ELEVATION



SECTION A-A



BEARING SEAT DETAIL

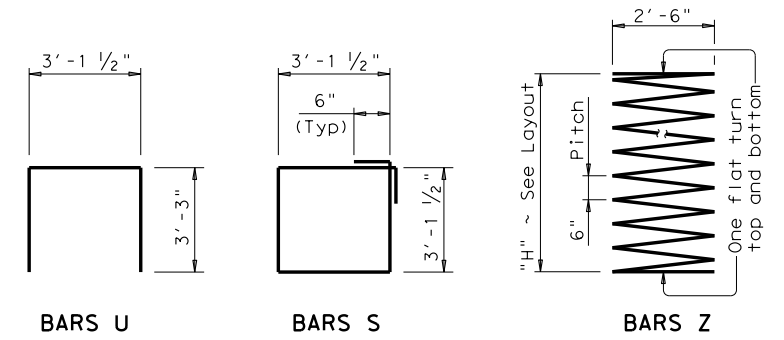


TABLE OF ESTIMATED QUANTITIES ①				
Bar	No.	Size	Length	Weight
A	7	#11	41'-9"	1,553
B ₁	4	#11	40'-3"	855
B ₂	6	#11	13'-6"	430
D ③	4	1 1/4"D	1'-8"	28
S	50	#5	13'-6"	704
T	10	#5	40'-3"	420
U	2	#5	9'-8"	20
V	30	#9	38'-3"	3,902
Z	3	#3	583'-0"	658
Reinforcing Steel			Lb	8,570
Class "C" Concrete (Cap)			CY	19.3
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	145	52	40	32
45	157	56	42	35
50	169	59	45	37
55	180	63	48	39
60	192	67	51	42
65	203	71	54	44
70	215	75	57	46
75	226	78	60	48
80	237	82	62	51
85	248	86	65	53
90	260	90	68	55
95	271	94	71	57
100	282	97	74	60
105	293	101	76	62

- 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, 15.740'
 Reinforcing Steel, 120 Lb
 Class "C" Conc (Col), 0.785 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 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 ℓ of Bearing.

GENERAL NOTES:
 Designed according to AASHTO LRFD Specifications.
 Concrete strength $f'_c = 3,600$ psi.
 All Cap reinforcing must be Grade 60.
 Galvanize dowel bars D.
 Column and Drilled Shaft reinforcing may be Grade 40.
 See Bridge Layout for foundation type, size and length.
 See Foundation Detail standard FD for all foundation details and notes.
 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 SXB-40-15 only.

HL93 LOADING

		Bridge Division Standard	
INTERIOR BENTS TYPE 5XB20 THRU 5XB40 PRESTR CONC X-BEAMS 40' ROADWAY 15° SKEW BXB-40-15			
FILE: xbstde65.dgn	DN: JMH	CK: AM	DW: JTR
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REVISIONS	COUNTY		SHEET NO.