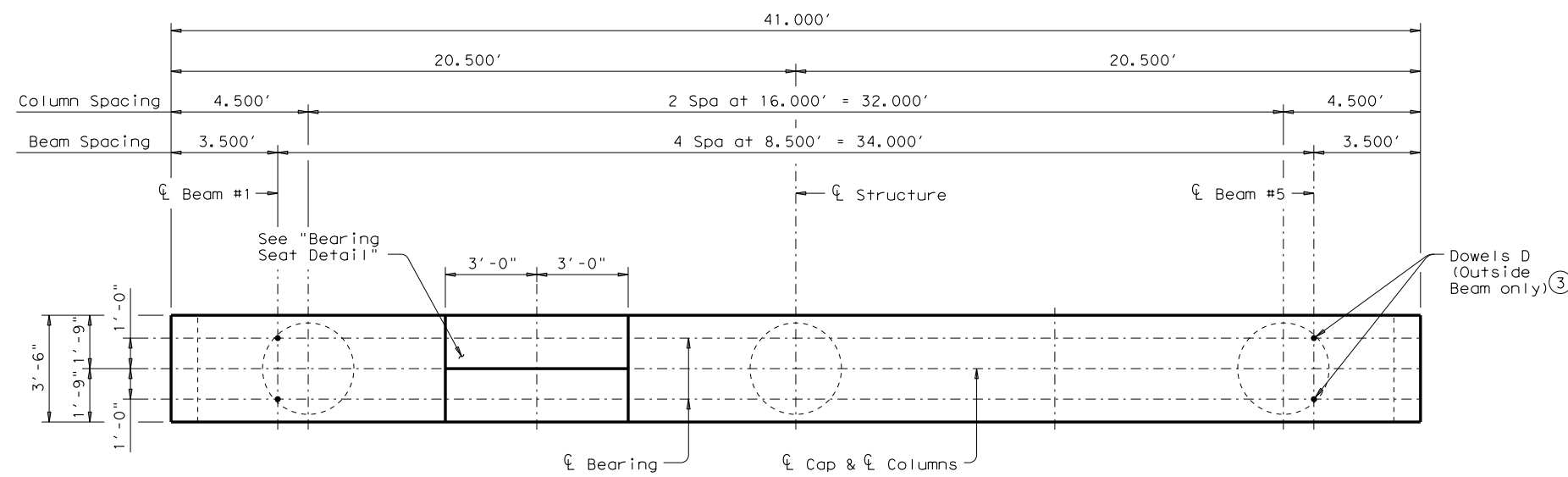


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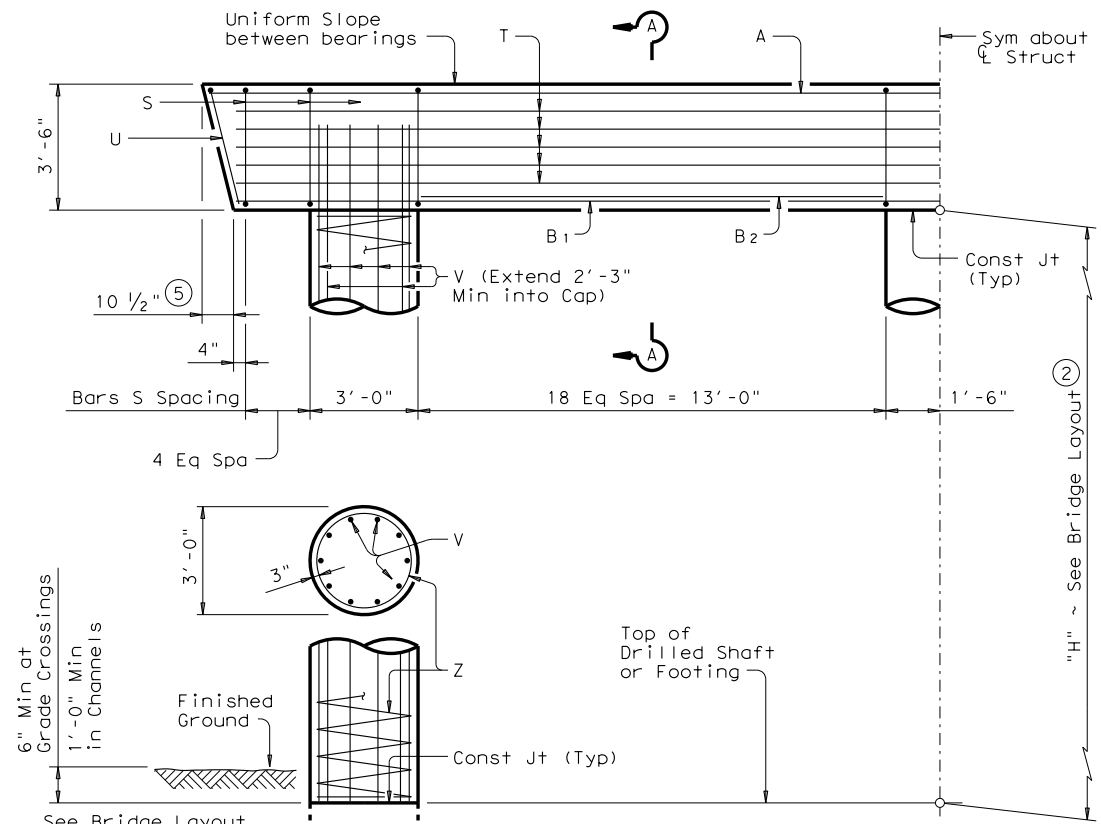
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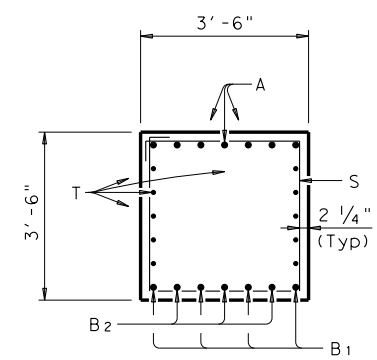
PLAN

- 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.

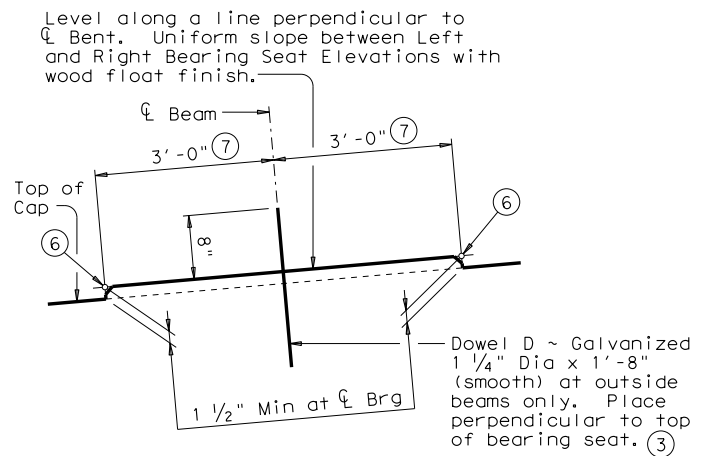
TABLE OF ESTIMATED QUANTITIES ①				
Bar	No.	Size	Length	Weight
A	7	#11	40'- 6"	1,506
B ₁	4	#11	39'- 0"	829
B ₂	6	#11	13'- 0"	414
D ③	4	1 1/4"D	1'- 8"	28
S	48	#5	13'- 6"	676
T	10	#5	39'- 0"	407
U	2	#5	9'- 8"	20
V	30	#9	38'- 3"	3,902
Z	3	#3	583'- 0"	658
Reinforcing Steel			Lb	8,440
Class "C" Concrete (Cap)			CY	18.7
Class "C" Concrete (Col)			CY	28.3



HALF ELEVATION

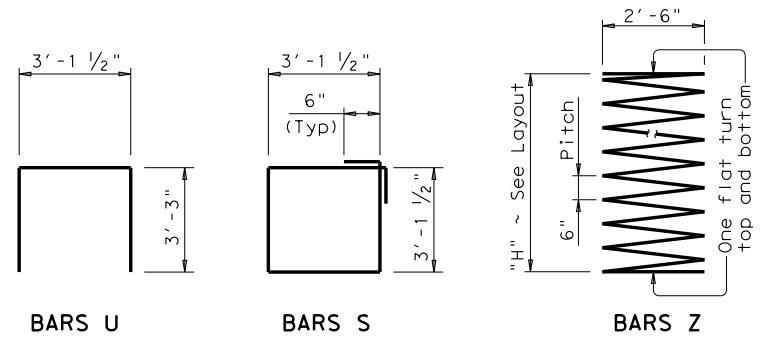


SECTION A-A



BEARING SEAT DETAIL

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



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

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. These bent details may be used with Standard SXB-40 only.

HL93 LOADING

Texas Department of Transportation
 Bridge Division Standard

INTERIOR BENTS
 TYPE 5XB20 THRU 5XB40
 PRESTR CONC X-BEAMS
 40' ROADWAY

BXB-40

FILE: xbstde64.dgn	DN: JMH	CK: AM	DW: JTR	CK: JMH
©TxDOT June 2011	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST			COUNTY
				SHEET NO.