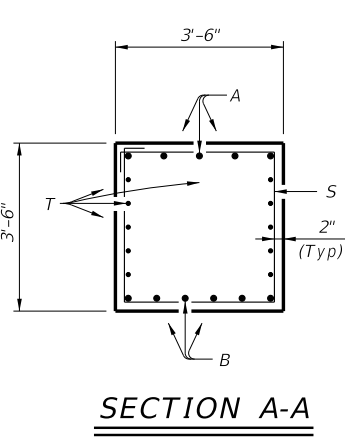
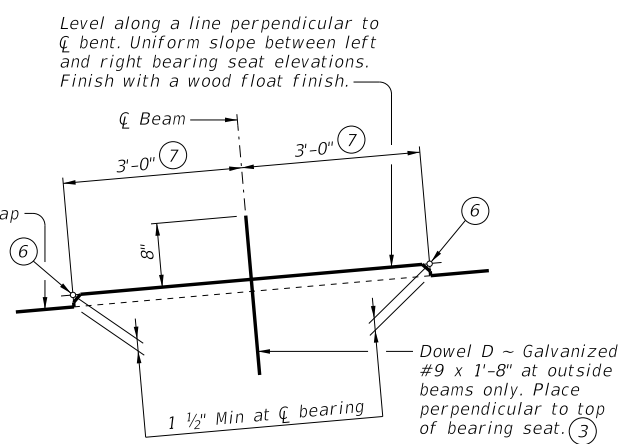
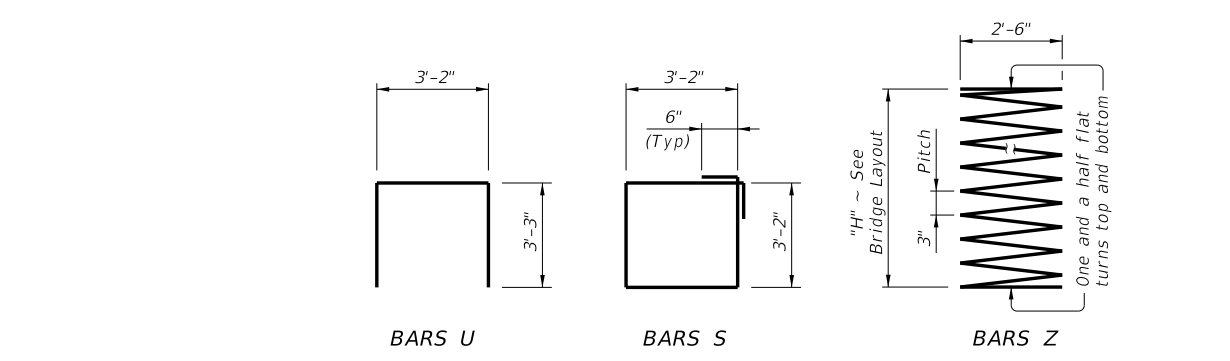
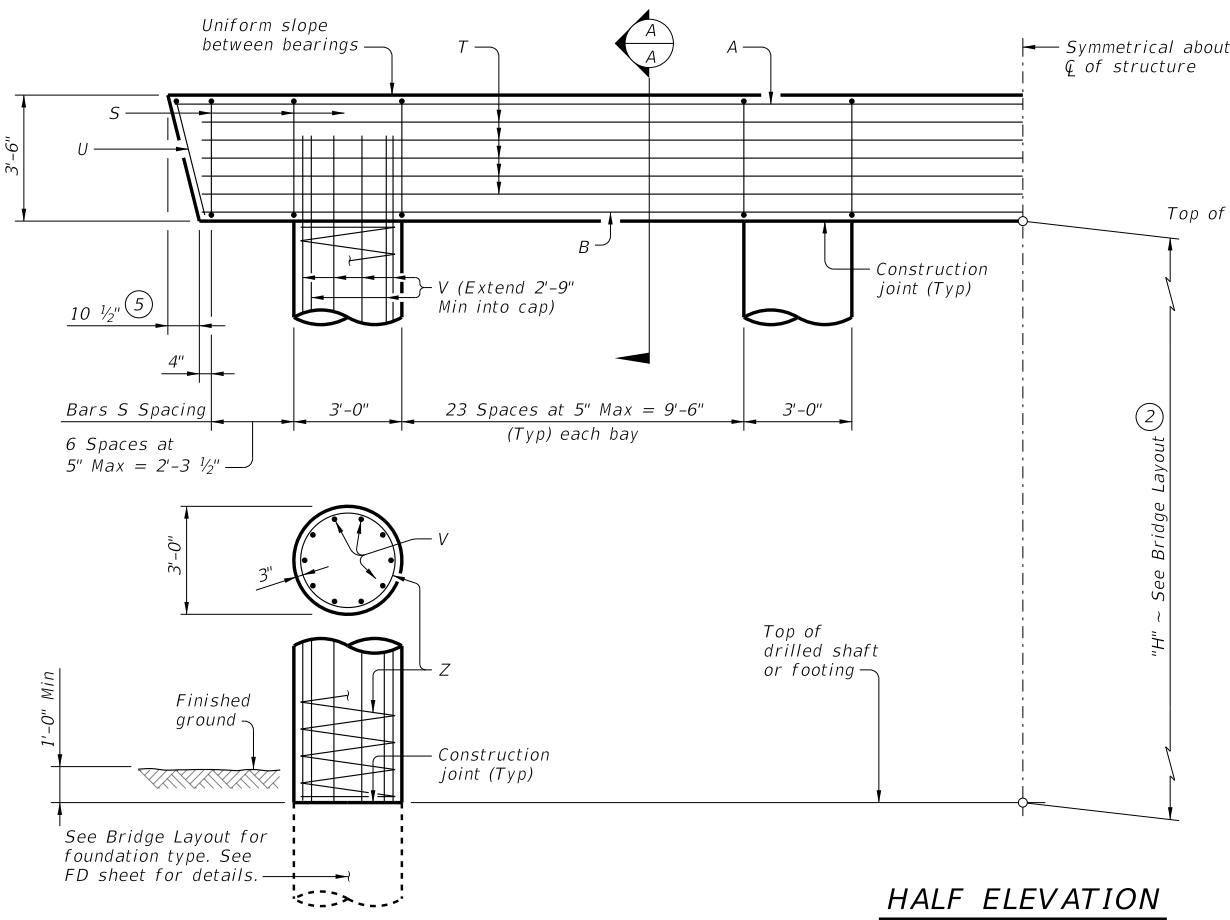
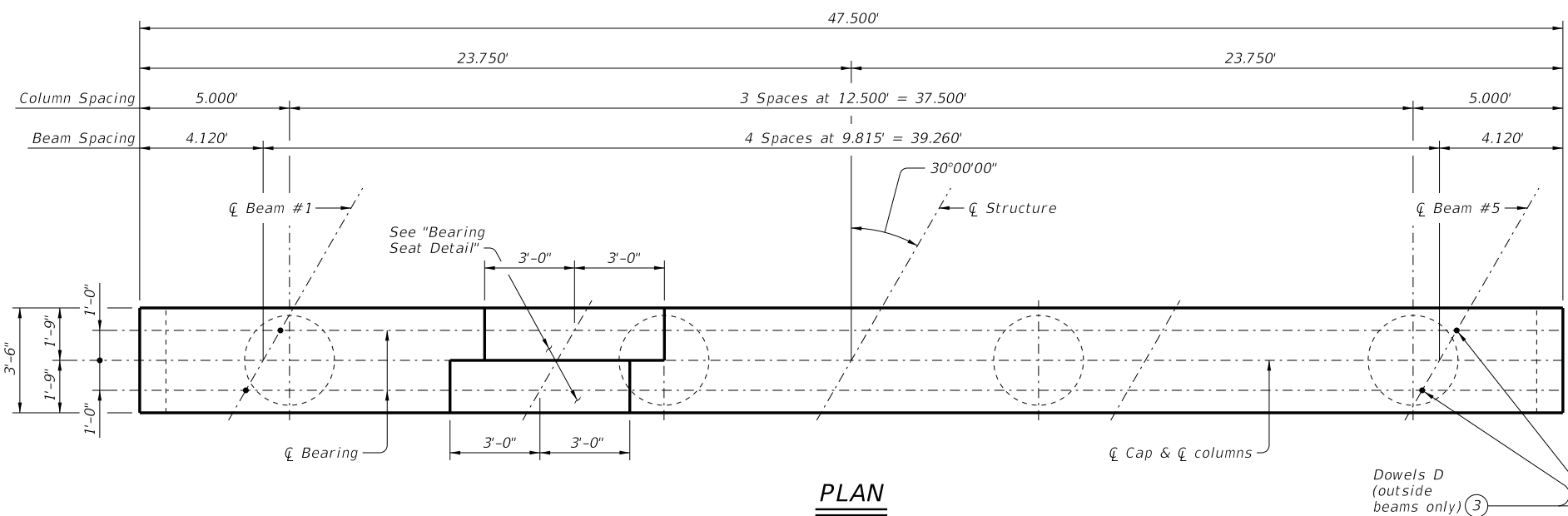


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Bar	No.	Size	Length	Weight	
A	5	#11	47'-0"	1,249	
B	6	#11	45'-6"	1,450	
D (3)	4	#9	1'-8"	23	
S	86	#5	13'-8"	1,226	
T	10	#5	45'-6"	475	
U	2	#5	9'-8"	20	
V	40	#9	38'-9"	5,270	
Z	4	#4	1154'-7"	3,085	
Reinforcing Steel				Lb	12,798
Class "C" Concrete (Cap)				CY	21.6
Class "C" Concrete (Col)				CY	37.7

Span Average	Drilled Shaft Loads	Pile Load (Tons/Pile)		
		3 Pile Ftg	4 Pile Ftg	5 Pile Ftg
Ft	Tons/Shaft			
40	118	43	33	27
45	127	46	35	29
50	136	49	38	31
55	145	52	40	33
60	154	55	42	35
65	163	58	44	36
70	172	61	47	38
75	181	64	49	40
80	190	67	51	42
85	198	70	53	43
90	207	73	55	45
95	216	76	58	47
100	225	79	60	49
105	234	82	62	50

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.
 Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.
 These bent details may be used with standard SXB-40-30 only.

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

- BEARING SEAT DETAIL**
 (Remove all loose material and clean bearing surface before placing the bearing pad.)
- 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, 220 lb
 Class C Concrete (Col), 1.05 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.
 - Right and left elevations and locations are provided elsewhere.
 - Measured along \bar{C} of bearing.

HL93 LOADING

Texas Department of Transportation
 Bridge Division Standard

**INTERIOR BENTS
 PRESTR CONC X-BEAMS
 (TYPE 5XB20 THROUGH 5XB40)
 40' ROADWAY 30° SKEW
 BXB-40-30**

FILE: XB-BXB4030-22.dgn	DN: BMP	CK: EFC	DW: JER	CK: BMP
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REVISIONS				
DIST		COUNTY		SHEET NO.

DATE: FILE: