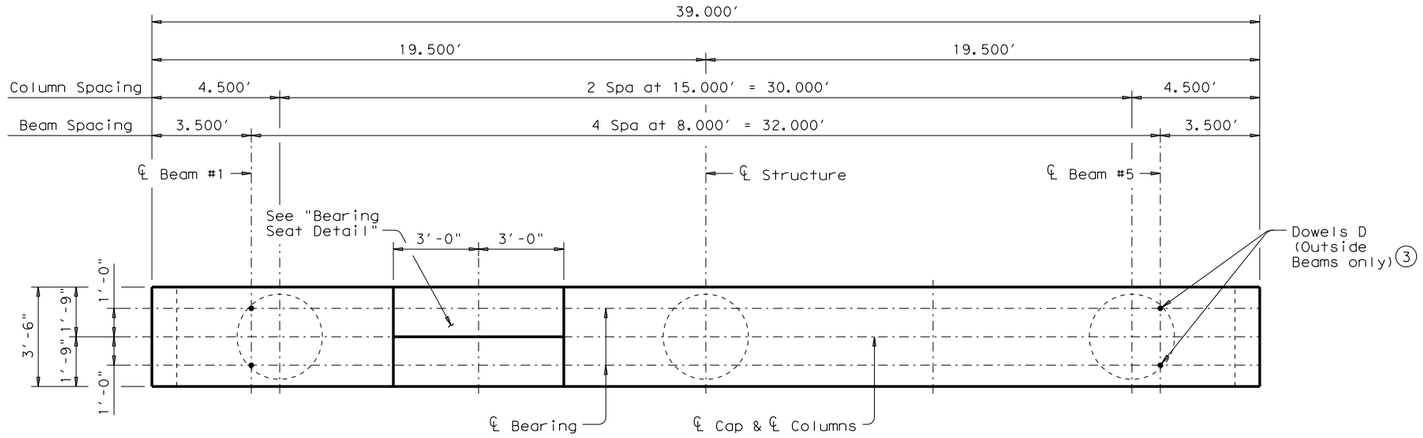
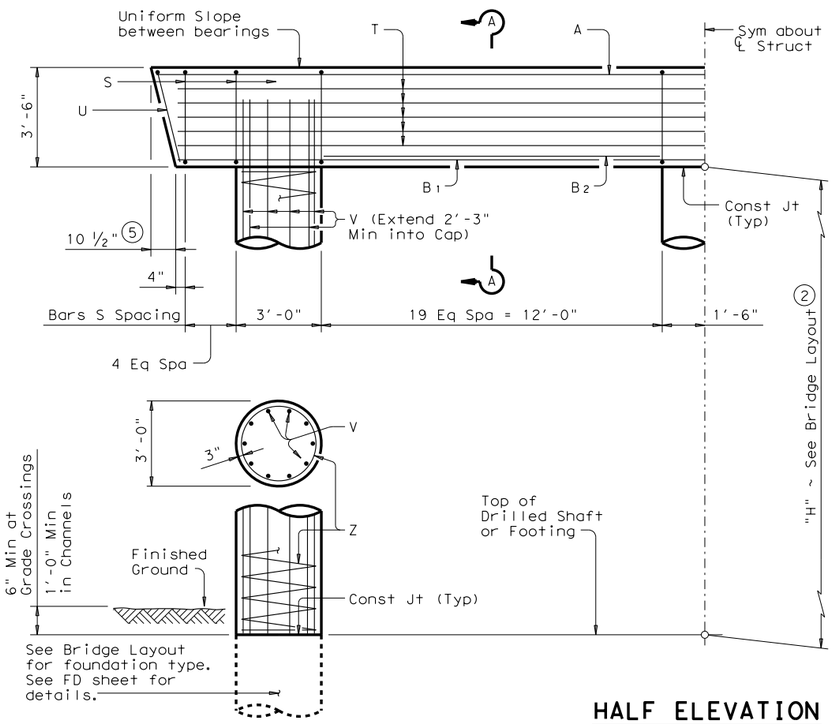
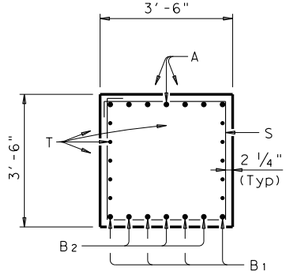
DATE:
FILE:



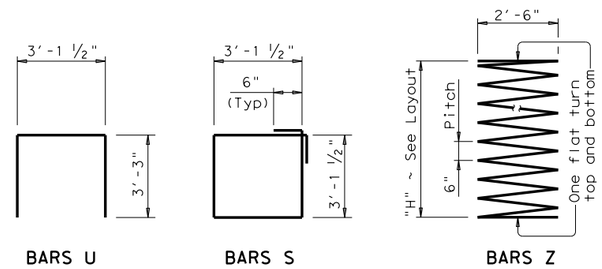
PLAN



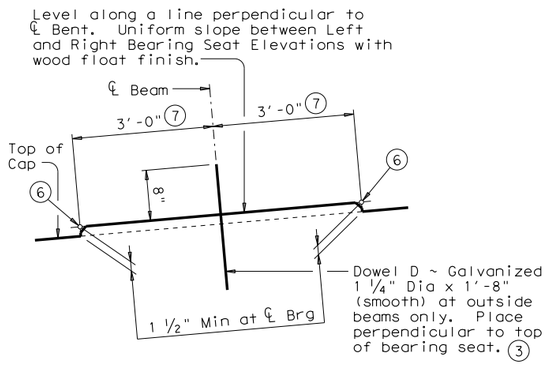
HALF ELEVATION



SECTION A-A



BARS U BARS S BARS Z



BEARING SEAT DETAIL

(Bearing surface must be clean and free of all loose material before placing 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, 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 ℄ of Bearing.

TABLE OF ESTIMATED QUANTITIES (1)

Bar	No.	Size	Length	Weight
A	7	#11	38'- 6"	1,432
B_1	4	#11	37'- 0"	786
B_2	6	#11	12'- 0"	383
D (3)	4	1 ¼"D	1'- 8"	28
S	50	#5	13'- 6"	704
T	10	#5	37'- 0"	386
U	2	#5	9'- 8"	20
V	30	#9	38'- 3"	3,902
Z	3	#3	583'- 0"	658
Reinforcing Steel			Lb	8,299
Class "C" Concrete (Cap)			CY	17.8
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	143	51	39	32
45	155	55	42	34
50	166	59	45	37
55	178	62	48	39
60	189	66	50	41
65	200	70	53	43
70	211	74	56	46
75	222	77	59	48
80	234	81	62	50
85	245	85	64	52
90	256	88	67	54
95	267	92	70	57
100	278	96	73	59
105	289	100	75	61

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-38 only.

HL93 LOADING

Texas Department of Transportation

Bridge Division Standard

INTERIOR BENTS

TYPE 5XB20 THRU 5XB40 PRESTR CONC X-BEAMS 38' ROADWAY

BXB-38

FILE: xbstde54.dgn	DN: JMH	CK: AM	DW: JTR	CK: JMH
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REVISIONS				
	DIST	COUNTY		SHEET NO.