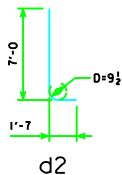
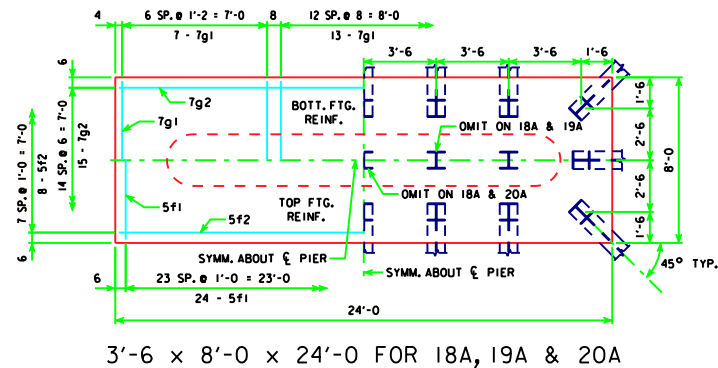


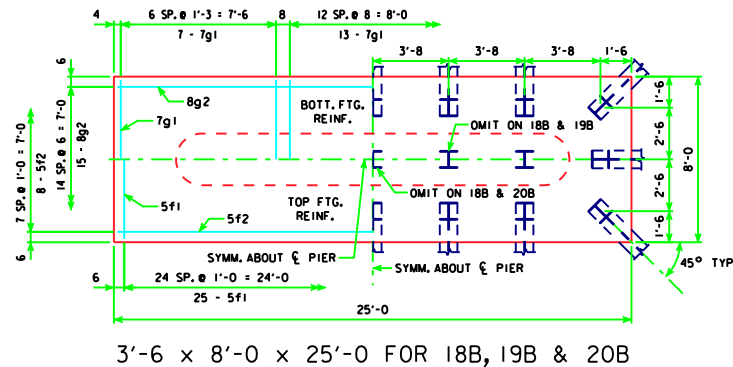
TYPICAL SECTION



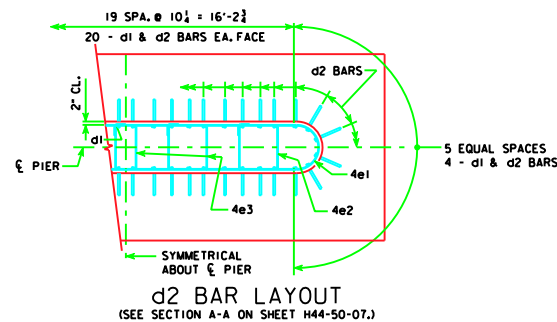
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.



3'-6" x 8'-0" x 24'-0" FOR 18A, 19A & 20A



3'-6" x 8'-0" x 25'-0" FOR 18B, 19B & 20B



FOOTING NOTES:

THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-50-07.

BATTER PILES IN EXTERIOR ROWS 1:4 IN THE DIRECTION SHOWN.

PIER PILES (HP10x57) ARE TO BE DRIVEN TO THE DESIGN BEARING VALUE.

STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0".

CL - CL IN FT.	ABUT. BRG.	NO. & LAYOUT	DES. BRG. (TONS)	FOOTING SIZE
18	201'-4	18A	47	
19	213'-10	18A	49	
20	226'-4	19A	49	3'-6" x 8" x 24"
21	243'-0	20A	49	
22	201'-4	18B	47	
23	213'-10	18B	49	
24	226'-4	19B	49	3'-6" x 8" x 25"
25	243'-0	20B	49	
26	201'-4	18B	48	
27	213'-10	18B	50	
28	226'-4	19B	50	3'-6" x 8" x 25"
29	243'-0	20B	49	

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)					STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)	TOTAL WEIGHT (LB.)	
3'-6" x 8" x 24"	d2	48 - #9 AS SHOWN	8'-7"	1401	2939	24.9
	f1	24 - #5 @ 1'-0"	7'-8"	192		
	f2	8 - #5 @ 1'-0"	23'-8"	197		
	g1	27 - #7 AS SHOWN	7'-8"	423		
3'-6" x 8" x 25"	g2	15 - #7 @ 0'-6"	23'-8"	726	3218	25.9
	d2	48 - #9 AS SHOWN	8'-7"	1401		
	f1	25 - #5 @ 1'-0"	7'-8"	200		
	f2	8 - #5 @ 1'-0"	24'-8"	206		
	g1	27 - #7 AS SHOWN	7'-8"	423		
	g2	15 - #8 @ 0'-6"	24'-8"	988		

LATEST REVISION DATE	<i>Approved by Bridge Engineer</i>	APPROVED BY BRIDGE ENGINEER		Iowa Department of Transportation	
				Highway Division	
			STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE		
			PRETENSIONED PRESTRESSED		
			CONCRETE BEAM BRIDGES		
			HL93 SUPERSTRUCTURE	HS25 SUBSTRUCTURE	
			MARCH, 2007		
TEE PIER - STEEL PILE					
FOOTINGS, H=16' TO 24'					
15° SKEW					
H44-52-07					