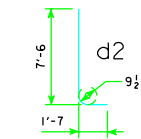


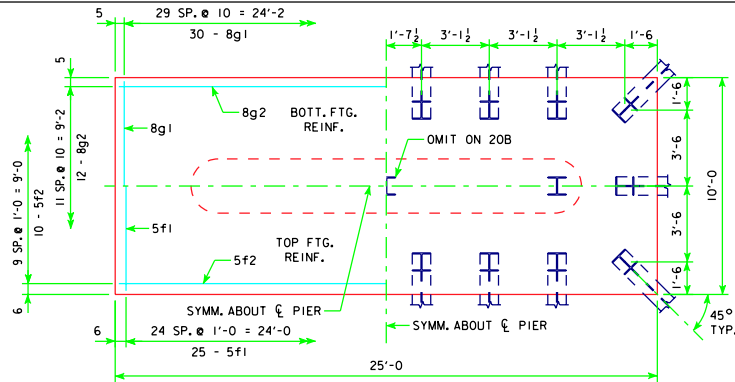
TYPICAL SECTION



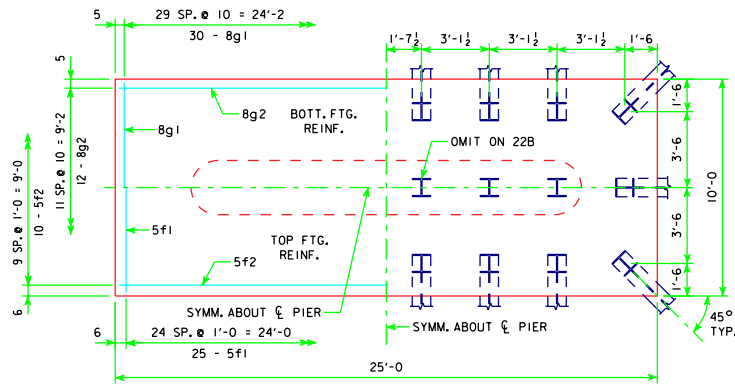
NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.

H IN FT.	℄ - ℄ ABUT. BRG.	PILING (HP10x57)			FOOTING SIZE
		NO. & LAYOUT	① DES. BRG. (TONS)	② LRFD DES. BRG. (KIPS)	
20'1"-4	20B	50	145	4' x 10' x 25'	
213'-10	21B	50	146		
226'-4	22B	50	147		
243'-0	24A	50	144	4' x 10' x 26'	
201'-4	21C	49	142		
213'-10	21C	50	147		
226'-4	22C	50	144	4' x 10' x 26'	
243'-0	24B	49	140		
201'-4	21C	50	144		
213'-10	22C	49	140	4' x 10' x 26'	
226'-4	22C	50	146		
243'-0	24B	49	142		
201'-4	21C	50	146	4' x 10' x 26'	
213'-10	22C	49	142		
226'-4	23B	50	144		
243'-0	24B	50	144	4' x 10' x 26'	
201'-4	22C	49	140		
213'-10	22C	50	145		
226'-4	23B	50	147	4' x 10' x 26'	
243'-0	24B	50	146		

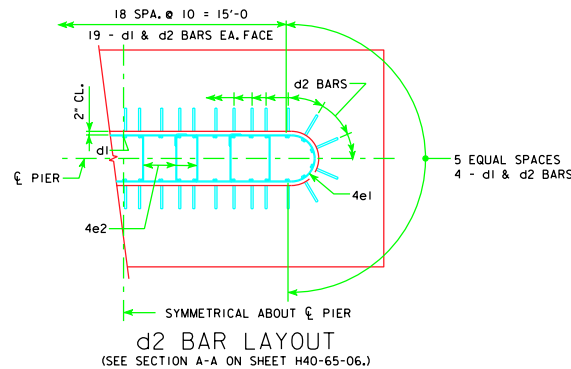
FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (L.B.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)		
4' x 10' x 25'	d2	46 - #9 AS SHOWN	9'-1	1421	3494	37.0
	f1	25 - #5 @ 1'-0	9'-8	252		
	f2	10 - #5 @ 1'-0	24'-8	257		
	g1	30 - #8 @ 0'-10	9'-8	774		
	g2	12 - #8 @ 0'-10	24'-8	790		
4' x 10' x 26'	d2	46 - #9 AS SHOWN	9'-1	1421	3876	38.5
	f1	26 - #5 @ 1'-0	9'-8	262		
	f2	10 - #5 @ 1'-0	25'-8	268		
	g1	34 - #8 @ 0'-9	9'-8	878		
	g2	12 - #9 @ 0'-10	25'-8	1047		



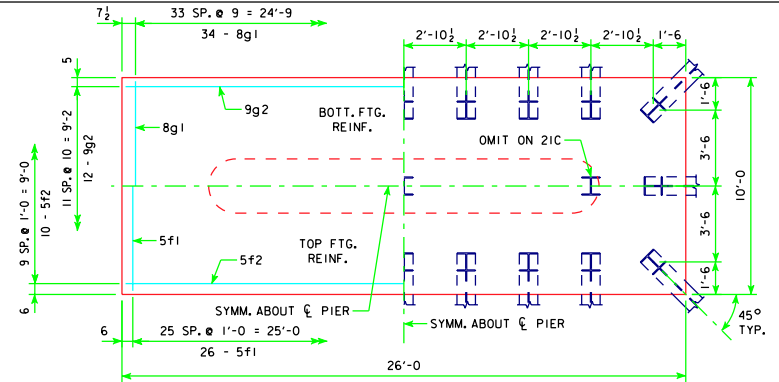
4'-0" x 10'-0" x 25'-0" FOR 20B & 21B



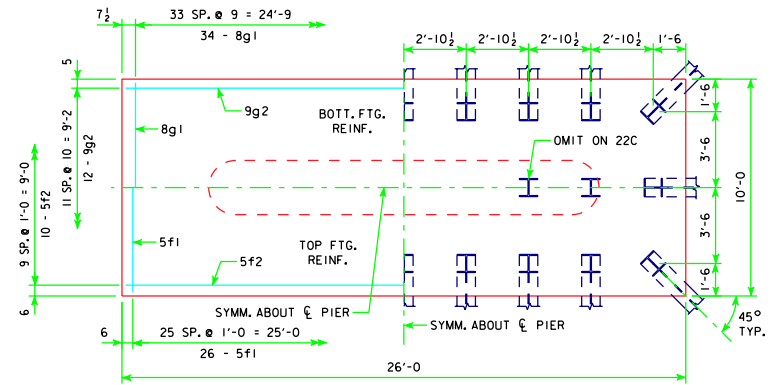
4'-0" x 10'-0" x 25'-0" FOR 22B & 24A



- ① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- ② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.



4'-0" x 10'-0" x 26'-0" FOR 21C & 23B



4'-0" x 10'-0" x 26'-0" FOR 22C & 24B

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 H40-65-06.

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

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".

01-10 LATEST REVISION DATE <i>Norman E. McQuinn</i> APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
	STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES AUGUST, 2009	
	TEE PIER - 50 TON STEEL PILE FOOTINGS 15° SKEW - H=25' TO 40'	H40-68-06