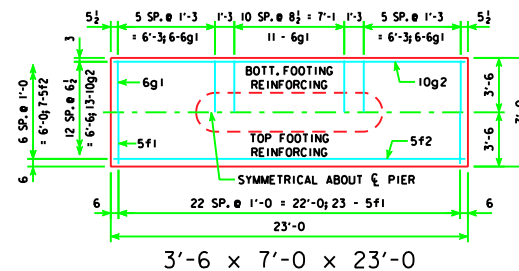
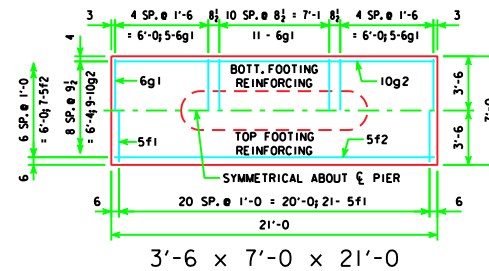
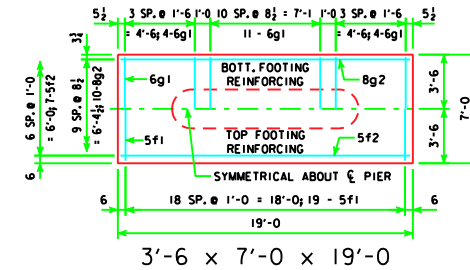
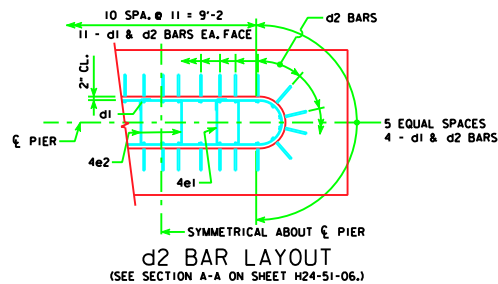
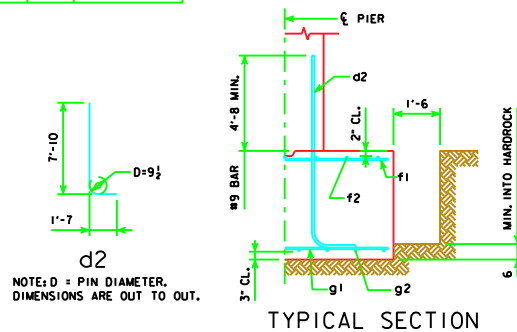


H IN FT.	CL - CL ABUT. BRG.	MIN. BRG. (TSF)	FOOTING SIZE
16 TO 18	138'-10 151'-4	4	3'-6 x 7' x 19'
19 TO 21	163'-10 176'-4 188'-10 201'-4 213'-10 226'-4 243'-0	5	3'-6 x 7' x 21'
22 TO 24	138'-10 151'-4 163'-10 176'-4 188'-10 201'-4 213'-10 226'-4 243'-0	4	3'-6 x 7' x 23'

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				TOTAL WEIGHT (LB.)	STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (LB.)		
3'-6 x 7' x 19'	d2	30 - #9 AS SHOWN	9'-5	961	1917	17.2
	f1	19 - #5 @ 1'-0	6'-8	132		
	f2	7 - #5 @ 1'-0	18'-8	136		
	g1	19 - #6 AS SHOWN	6'-8	190		
	g2	10 - #8 @ 0'-8½	18'-8	498		
	d2	30 - #9 AS SHOWN	9'-5	961		
3'-6 x 7' x 21'	f1	21 - #5 @ 1'-0	6'-8	146	2268	19.1
	f2	7 - #5 @ 1'-0	20'-8	151		
	g1	21 - #6 AS SHOWN	6'-8	210		
	g2	9 - #10 @ 0'-9½	20'-8	800		
	d2	30 - #9 AS SHOWN	9'-5	961		
	f1	23 - #5 @ 1'-0	6'-8	160		
3'-6 x 7' x 23'	f2	7 - #5 @ 1'-0	22'-8	165	2784	20.9
	g1	23 - #6 AS SHOWN	6'-8	230		
	g2	13 - #10 @ 0'-6½	22'-8	1268		



FOOTING NOTES:

THESE SPREAD FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H24-51-06.

THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 6 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 6 INCHES OF ROCK EXCAVATION SHALL BE TO NEAT LINES OF MASONRY. SEE TABLE FOR MINIMUM ALLOWABLE BEARING VALUE REQUIRED FOR THE FOUNDATION ROCK.

LATEST REVISION DATE	<i>Thomas L. McDaniel</i> APPROVED BY BRIDGE ENGINEER		Iowa Department of Transportation Highway Division	
			STANDARD DESIGN - 24' ROADWAY, THREE SPAN BRIDGE	
			PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES	
			HL93 SUPERSTRUCTURE	DECEMBER, 2006
			HS25 SUBSTRUCTURE	
TEE PIER - SPREAD FOOTINGS, H=16' TO 24'		H24-54-06		
15° SKEW				