

	TYPI	CAL NUM	IBERS OF	PILES	AND SP	ACINGS	AND FAC	TORED F	IER LOA	\DS
	BRIDGE LENGTH	70′-0	80′-0	90′-0	100′-0	110′-0	120'-0	130′-0	140'-0	150′-0
0	TYP. NO. OF PILES	7	7	8	9	10	Ш	12	12	12
	TYP. PILE SPACES @ 0°	6 SPA. @ 4'-9	6 SPA. <b>©</b> 4′-9	7 SPA.@ ABOUT 4'-1(-)	8 SPA.@ ABOUT 3'-7(-)		ABOUT 2'-10(+)	ABOUT 2'-7(+)	ABOUT 2'-7(+)	③ 11 SPA.@ ABOUT 2'-7(+)
	TYP. PILE SPACES @ 15°	6 SPA.@ ABOUT 4'-II(+)	6 SPA.@ ABOUT 4'-11(+)	7 SPA.@ ABOUT 4'-3(-)		② 9 SPA. œ ABOUT 3'-3(+)				3    SPA. @ ABOUT 2'-8(+)
	TYP. PILE SPACES @ 30°	6 SPA. @ ABOUT 5'-6(-)	6 SPA.@ ABOUT 5'-6(-)	7 SPA.@ ABOUT 4'-8(+)	8 SPA.@ ABOUT 4'-1(+)					② II SPA.@ ABOUT 3'-0(-)
	TYP. PILE SPACES @ 45°	6 SPA. <b>©</b> ABOUT 6'-9(-)	6 SPA.@ ABOUT 6'-9(-)	7 SPA.@ ABOUT 5'-9(+)	8 SPA.@ ABOUT 5'-0(+)	9 SPA. @ ABOUT 4'-6(-)	IO SPA. @ ABOUT 4'-0(+)	II SPA. @ ABOUT 3'-8(-)	II SPA. @ ABOUT 3'-8(-)	II SPA.@ ABOUT 3'-8(-)
4	PU, STRENGTH I DESIGN LOAD FOR PIER (KIPS)	631 KIPS	699 KIPS	776 KIPS	860 KIPS	942 KIPS	1039 KIPS	II34 KIPS	1234 KIPS	1346 KIPS

- ① THIS TYPICAL NUMBER OF PLES MAY NEED TO BE MODIFIED DEPENDING ON SELECTED PIOL PILE TYPE AND SIZE, HEIGHT, AND RESISTANCE. IF THE NUMBER OF PILES IS DIFFERENT THAN IN THE TABLE FOR THE BRIDGE LENGTH, THE NUMBER OF 5dI BARS AND OTHER QUANTITIES NEED TO BE CHECKED AND ADJUSTED AS NEEDED. PILES 10 INCHES AND 12 INCHES IN SIZE MUST BE SPACED 2'-10 OR MORE, AND PILES 16 INCHES IN SIZE MUST BE SPACED 3'-4 OR MORE.
- 2 MAXIMUM PIOL PILE SIZE AT THIS SPACING IS 14 INCHES.
- 3 MAXIMUM PIOL PILE SIZE AT THIS SPACING IS 12 INCHES.
- STRENGTH I PIER DESIGN LOAD INCLUDES DYNAMIC LOAD ALLOWANCE (IM), AND PIER CAP WEIGHT IS BASED ON 45° SKEW. USE THIS PU FOR DETERMINING NUMBER OF PILES AND PILE LENGTH.

## PIER NOTES:

ALL MONOLITHIC PIER CAP REINFORCING AND CONCRETE IS INCLUDED IN SUPERSTRUCTURE ESTIMATE OF QUANTITIES.

THE MINIMUM CLEAR DISTANCE FROM THE FACE OF THE CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.

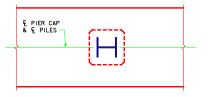
THE PIER PILES ARE TO BE DRIVEN TO FULL PENETRATION, IF PRACTICABLE, BUT IN NO CASE TO A BEARING VALUE LESS THAN THE PILE BEARING REQUIRED FOR EACH BRIDGE LENGTH AS SHOWN ON THIS SHEET. ADDITIONAL DRIVING CAPACITY MAY BE REQUIRED THROUGH SCOURABLE LAYERS, REFER TO GENERAL PLAN NOTES FOR ADDITIONAL INFORMATION.

CAP STEEL AS DETAILED ON PIOL STANDARD PILE DRAWING IS REQUIRED FOR MONOLITHIC PIER CAPS.

THE CONCRETE QUANTITIES ARE BASED ON THE USE OF TYPE 3 PILLING. IF TYPE 1 OR TYPE 2 IS USED, THE CONCRETE QUANTITIES MAY BE ADJUSTED TO ACCOUNT FOR THE CONCRETE DISPLACED BY THE PILING.

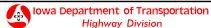
ALL REINFORCING STEEL IS TO BE GRADE 60.

PIER PILING WAS DESIGNED FOR HL-93 LOADING WITH AN ALLOWANCE FOR 20 LBS.PER SQ.FT.FUTURE WEARING SURFACE.



PILE ORIENTATION DETAIL FOR TYPE 3 TRESTLE BENT PILES





STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES

CONTINUOUS CONCRETE SLAB BRIDGES

NOVEMBER, 2006

MONOLITHIC PIER CAP DETAILS ALL BRIDGES

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DGES 130-23-06

13 - CHANGED THE PILE LOADS TO CONFORM T

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