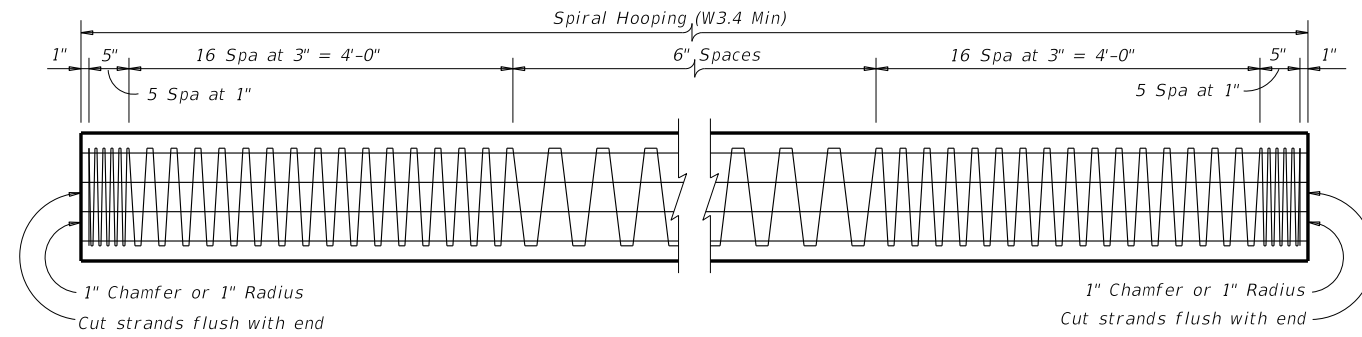
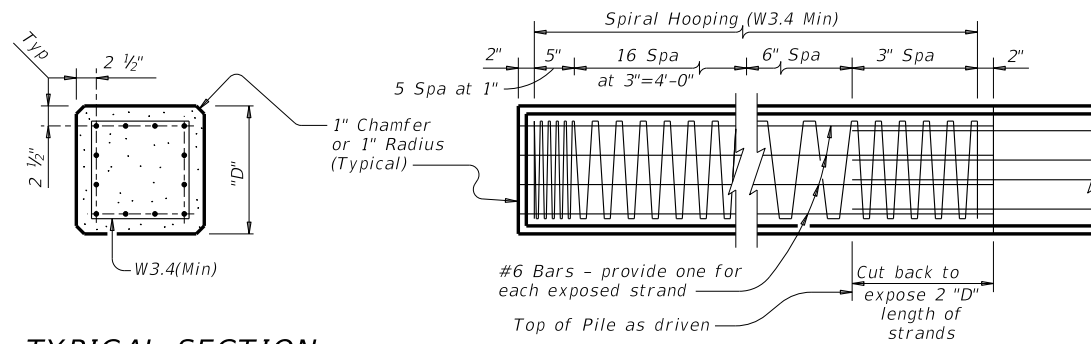


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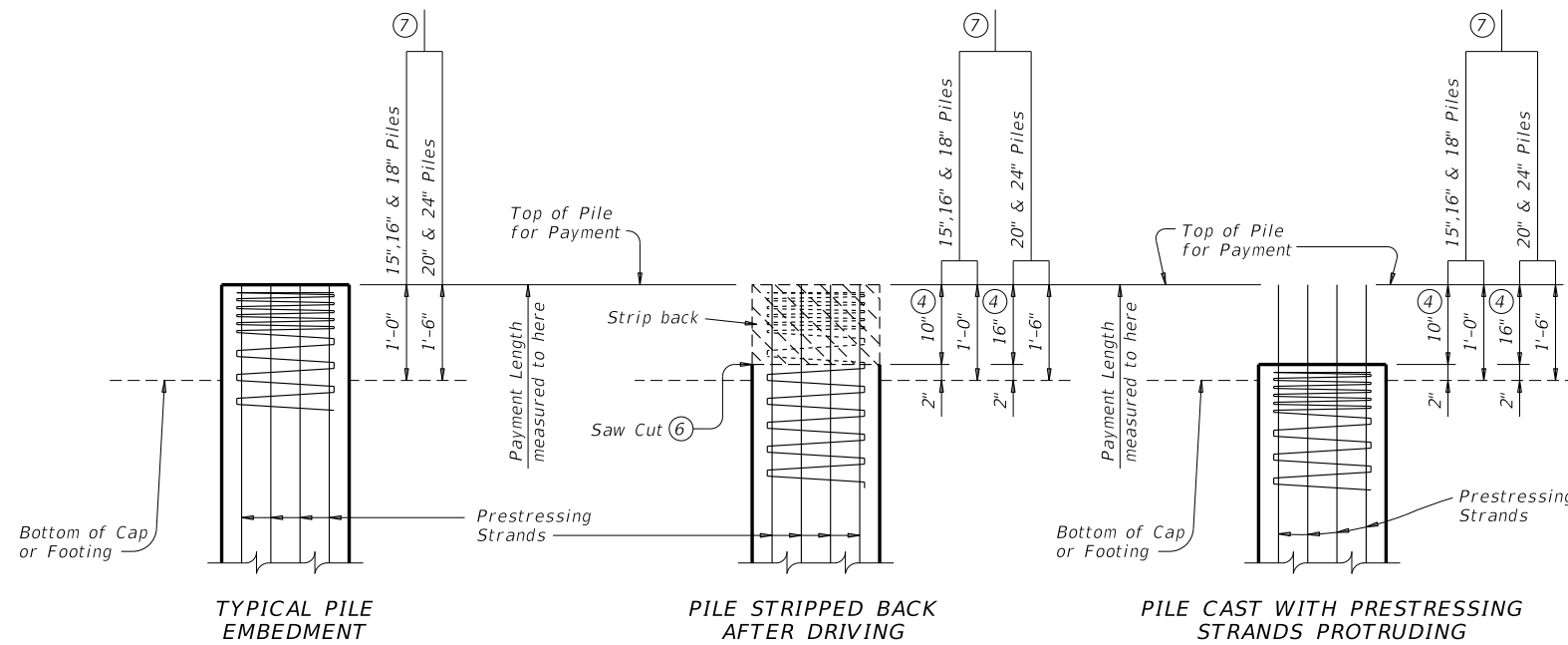


PILE DETAILS



PILE BUILD-UP DETAIL

TYPICAL SECTION THRU PILE



PILE EMBEDMENT DETAILS

TABLE OF PROPERTIES FOR PRESTRESSED CONCRETE PILES						
Pile Size "D"	Area of Pile Section	I	Weight	Prestressing ⑤		
				No.	Initial Prestress Force	Concrete Final Prestress (15% Loss)
	Sq In	In ⁴	Lb/Ft	Kips	psi	
16"	254	5,340	265	8	231	774
18"	322	8,600	336	10	289	763
20"	398	13,150	415	14	405	864
24"	574	27,380	598	18	520	770

- ① Locate strands symmetrically about the axis of the pile, with no more than one strand difference between any two adjacent sides.
- ② Provide Class S Concrete for pile build-ups.
- ③ Payment for piles will be in accordance with the details shown. Strip back piling and extend prestressing strands into substructure when piling conflicts with substructure reinforcing or when the side cover from pile edge to substructure edge is less than 4" after driving.
- ④ Provide more strip back if indicated. When stripped back piles are required, strip back piling after driving or cast short with strands protruding from top of piling as shown.
- ⑤ Provide 1/2" 270 ksi low relaxation strands tensioned to 28.9 kips each. If an optional design is used, provide a minimum Concrete Final Prestress of 750 psi. Submit optional designs for approval.
- ⑥ Saw cut 1/2" deep around perimeter of pile at the breakback line.
- ⑦ Unless shown otherwise.

FABRICATION NOTES:
 Provide Class H Concrete. Provide sulfate resistant concrete when required.
 Minimum release strength, f'ci = 4000 psi.
 Minimum 28-day strength, f'c = 5000 psi.
 All dimensions relating to prestressing steel are to centers of strands or bars.
 See Layout for size, number, and length of piling.
 Shop drawing submittal and approval is not required if fabrication is in accordance with the details shown on this standard.

Bridge Division Standard

PRESTRESSED CONCRETE PILING

CP

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