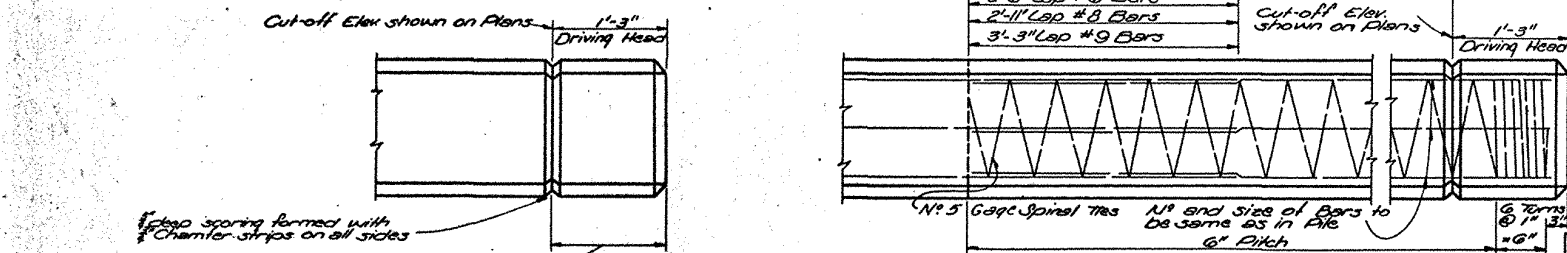


GENERAL NOTES: PRECAST REINFORCED CONCRETE PILES
 Construction Specifications: Latest approved La. Dept. of Highways Spec's.
 Design Specifications: A.A.S.H.O. Std. Specs. for Hwy. Bridges, 1953 as amended to Dec. 31, 1955.
 Concrete to be Class "A" or Class "Y" concrete at the Contractor's option.
 Dimensions to Reinforcing Steel are to Bar Faces.
 Deformed Reinforcing Steel to be intermediate or hard grade A.S.T.M. A16, or Rail Steel A.S.T.M. A16 and shall conform to A.S.T.M. A305.

Splices of Reinforcement Bars will not be permitted in piles under 40' in length. One splice per bar will be permitted in piles 40' up to 65' in length and two splices per bar will be permitted in piles over 65' long. Not more than two bars may be spliced at any section; only one bar in any face of the pile may be spliced at one section; the splices shall be not less than 40' on centers; the bars shall be staggered 35' diameters at each splice, except that corner bars to be spliced shall be putted together in line and spliced with another bar of equal size and not less than 70' diameters long.
 All exposed concrete corners to be chamfered as noted. Pick-up lengths have been computed using values of $f_c = 10,000$ p.s.i. and $f_s = 120,000$ p.s.i. with an allowance of 50% for concrete and are based on careful handling. Rotation of pile in the sling is to be prevented until pile is in near vertical position.
 Pick-up points for all piles to be clearly marked on pile.

The Contractor may use the Reinforced or prestressed pile at his option.
 No. 5 Gage Spiral Ties may be either cold drawn wire, A.S.T.M. A12 or Intermediate Structural or Hard grade A.S.T.M. A15. It will be permissible to substitute 3/8 inch round plain Reinforcement of the same grade and at the same spacing for the No. 5 Gage Spiral Ties.



TYPICAL PILE BUILD-UP WHERE REDRIVING IS REQUIRED

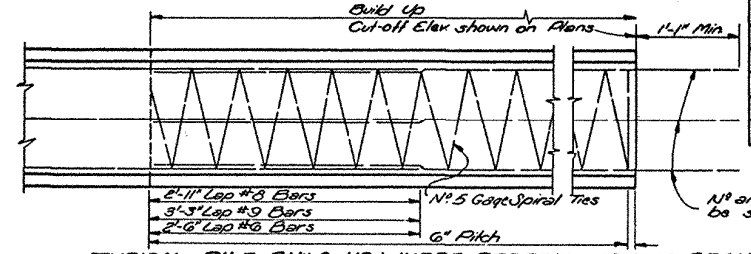
TABLE OF PILE ELEMENTS

PILE SIZE IN.	WEIGHT PER FOOT POUNDS	TRANS. SECTION IN. x IN.	MO. IN.	SIZE OF REINIF.	NO. OF BARS EA. FACE	TOTAL NO. OF BARS	MAXIMUM PILE CASTING LENGTHS	
							1 PT. PICK-UP L1	2 PT. PICK-UP L2
12	150	105	476	2.98	4	4	35'-3"	46'-3"
14	204	136	1149	3.82	4	4	41'-3"	56'-3"
16	267	178	1716	4.00	4	4	41'-3"	61'-3"
18	338	225	2298	5.09	3	8	53'-3"	76'-3"
20	417	276	6365	6.02	4	12	57'-3"	81'-3"

1/2" deep scoring formed with 1/2" Chamfer strips on all sides

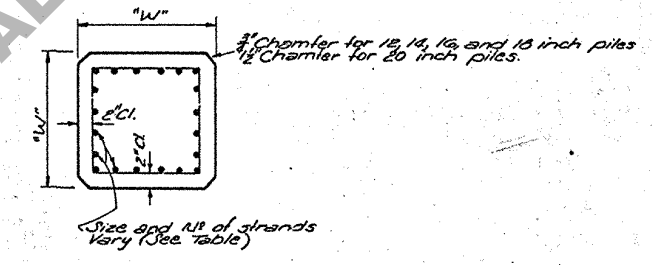
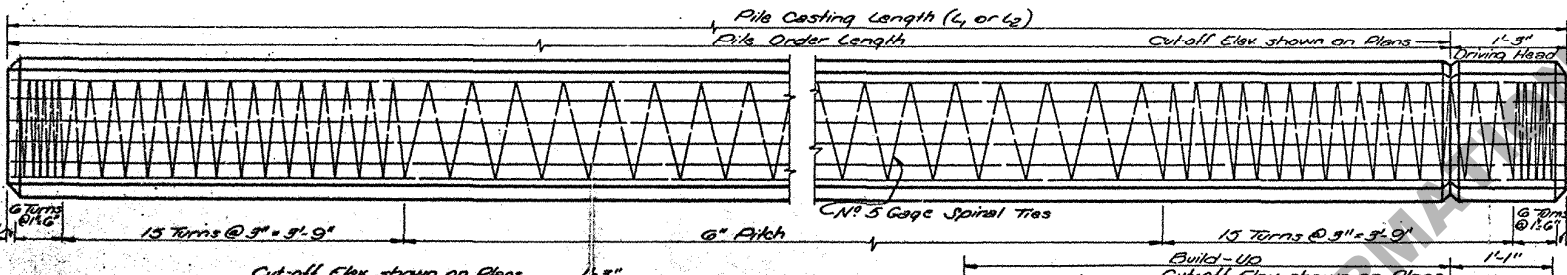
DETAIL OF PILE HEAD

NOTE: Order length furnished by the engineer will not include the 1-3" driving head and no direct payment will be made for the driving head nor will the driving head be included in measurement of cut-off.



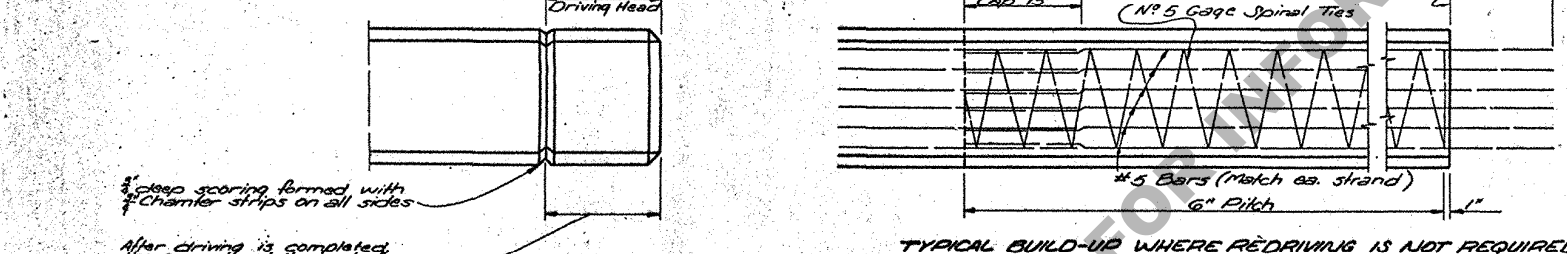
TYPICAL PILE BUILD-UP WHERE REDRIVING IS NOT REQUIRED

DETAILS OF 12-14-16-18 & 20 INCH SQ. PRECAST REINFORCED CONCRETE PILES



GENERAL NOTES: PRECAST PRESTRESSED CONCRETE PILES
 Construction Specifications: Latest approved La. Dept. of Highways Spec's.
 Design Specifications: A.A.S.H.O. Std. Specs. for Hwy. Bridges, 1953 as amended to Dec. 31, 1955.
 Concrete shall be class "A" concrete. The use of light weight aggregates will be permitted.
 Dimensions to reinforcement are to Bar Faces.

Pre-tensioning steel shall consist of 7-wire stress relieved cable strands. An initial tensile force of 18,900 pounds shall be applied to each 7-strand, 16,000 pounds shall be applied to each 5-strand and 10,150 pounds shall be applied to each 3-strand.
 All exposed concrete corners to be chamfered as noted. Pick-up lengths have been computed on basis of 70% tension in the concrete with an allowance of 50% for rotation and are based on careful handling. Rotation of pile in the sling is to be prevented until pile is in near vertical position.
 Pick-up points for all piles to be clearly marked on pile. Piles shall be stored on central float and transported to the bridge site on trucks.
 The Contractor may use the Reinforced or Prestressed pile at his option.
 No. 5 Gage Spiral Ties may be either cold drawn wire, A.S.T.M. A12 or Intermediate Structural or Hard grade A.S.T.M. A15. It will be permissible to substitute 3/8 inch round plain Reinforcement of the same grade and at the same spacing for the No. 5 Gage Spiral Ties.



TYPICAL BUILD-UP WHERE REDRIVING IS NOT REQUIRED

TABLE OF PILE ELEMENTS

PILE SIZE IN.	WEIGHT PER FOOT POUNDS	SECTION MODULUS IN. 3	SIZE OF STRANDS	NO. OF STRANDS EA. FACE	TOTAL NO. OF STRANDS	MAXIMUM PILE CASTING LENGTHS	
						1 PT. PICK-UP L1	2 PT. PICK-UP L2
12	150	100	238	3	8	35'-3"	46'-3"
14	204	136	457	4	12	41'-3"	56'-3"
16	267	178	633	5	16	41'-3"	61'-3"
18	338	225	972	6	20	53'-3"	76'-3"
20	417	276	1333	6	20	57'-3"	81'-3"

DETAIL OF PILE HEAD

NOTE: Order length furnished by the engineer will not include the 1-3" driving head and no direct payment will be made for the driving head nor will the driving head be included in measurement of cut-off.

DETAILS OF 12-14-16-18 & 20 INCH SQ. PRECAST PRESTRESSED CONCRETE PILES

NO.	DESCRIPTION	DATE	BY
10-1-61	No. 5 Gage Spiral Ties	10/1/61	SLP
8-9-61	1/4" Chamfer Specifications	8/9/61	SLP
8-13-61	Revised	8/13/61	SLP
1-11-61	1/4" R.C. Pile Added 1/2" Prestress	1/11/61	SLP
1-11-61	Pile Strand Size Changed	1/11/61	SLP
7-10-58	Gen. Notes for Bar Size - 1/2" Pile	7/10/58	SLP
5-20-58	Pile Wts. for Light Wt. Conc.	5/20/58	SLP
1-23-58	Revised Chamfer Size	1/23/58	SLP

WOLP
 Revised 11/3/60

FILES

STANDARD PLAN
 12-14-16-18 & 20 INCH PRECAST
 CONCRETE PILES
 (REINFORCED OR PRESTRESSED)

DATED: Sept. 5, 1957

STATE OF LOUISIANA
 DEPARTMENT OF HIGHWAYS

DESIGNED: A. E. Leonard	Detailed: A. E. Leonard	TRACED: J. E. Leonard
CHECKED: R. G. Sussinger	CHECKED: R. G. Sussinger	CHECKED: J. E. Leonard

BRIDGE DESIGN SECTION