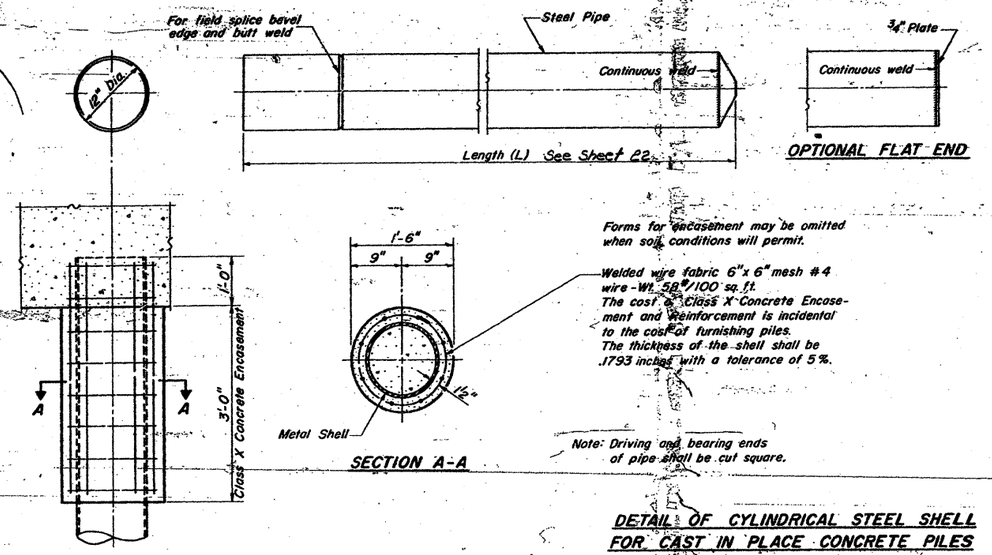
FOR INFORMATION ONLY

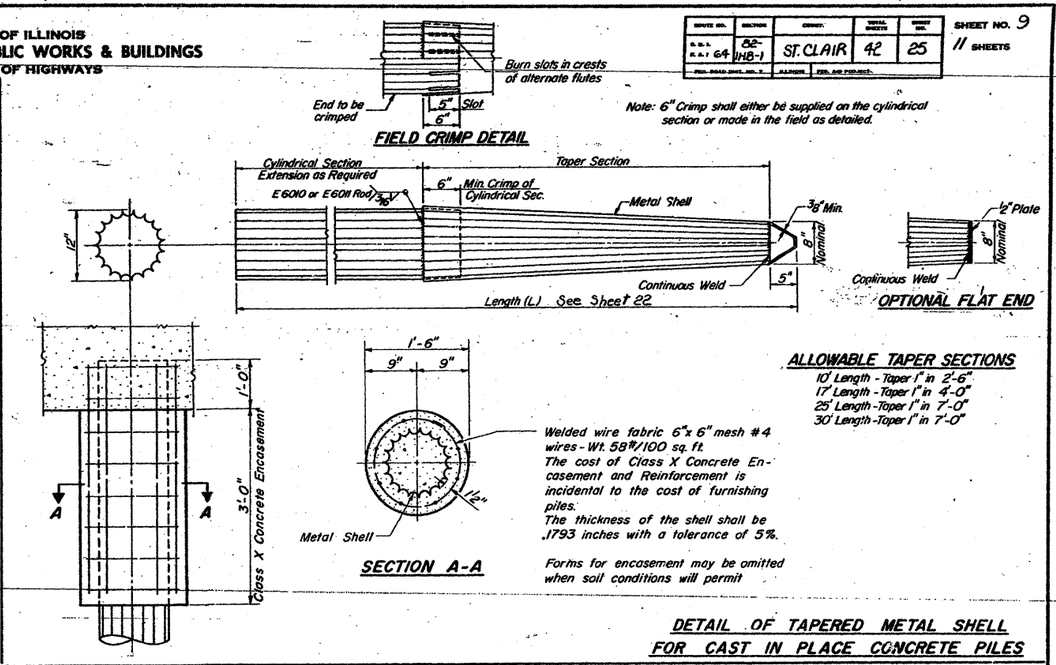
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 64	82-1HB-1	ST. CLAIR	42	25
PROJ. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

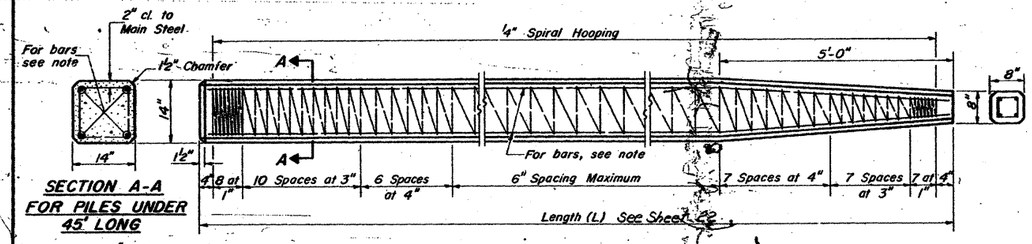
SHEET NO. 9
11 SHEETS



DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONCRETE PILES



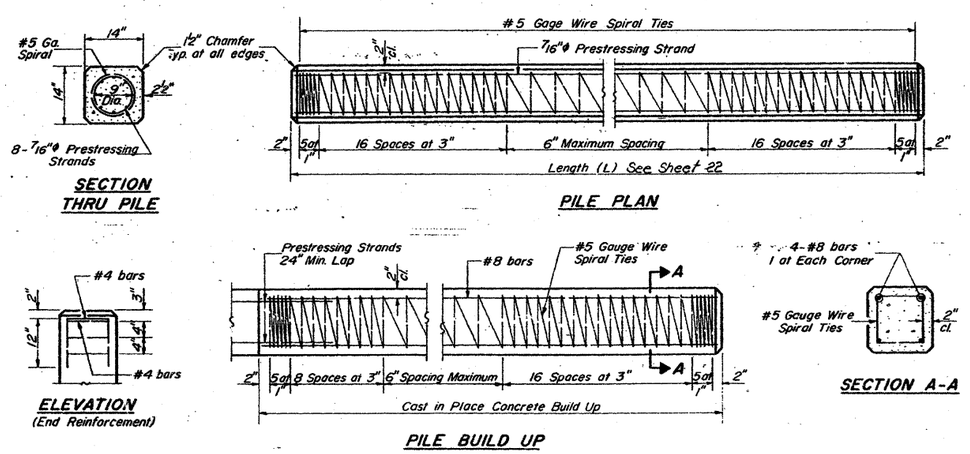
Note: For 14" Piles 45' long or more use 8-#8 bars 4 for the full length and 4 to the point of bevel. For 14" Piles under 45' long use 4-#9 bars full length.

Handling: For Pile lengths up to 45', use two slings placed at a distance of 0.21 L from each end.
For Piles longer than 45', use three slings placed at a distance of 0.12 L from each end and at mid-point of pile.

DESIGNED	EXAMINED	19
CHECKED	PASSED	
DRAWN	APPROVED	
CHECKED		

X-2 2-14-69

DETAIL OF PRECAST CONCRETE PILES



DESIGN STRESSES
f'_c = 5,000 psi.
f'_{ci} = 4,000 psi.
f'_s = 268,000 psi. (31,000 lbs.)
f'_{si} = 188,000 psi. (21,700 lbs.)

Note: Prestressing steel shall be non-galvanized extra high strength stress-relieved 7 wire strand. The nominal diameter shall be 7/16" and the minimum nominal cross-sectional area shall be 0.1155 square inch.

Handling: For pile lengths up to 65', use two slings placed at a distance of 0.21L from each end. For piles longer than 65', use three slings placed at a distance of 0.12 L from each end at midpoint of pile.

PILE DETAILS
FAI RTE. 64 ~ SEC. 82-1HB-1
ST. CLAIR COUNTY
STA. 75+85.50

DETAIL OF PRECAST PRESTRESSED CONCRETE PILES

FILE NAME = $FILEA$	USER NAME = pmsarno	DESIGNED	REVISED -
		DRAWN PP	REVISED -
	PLOT SCALE = 20.000 ' / IN.	CHECKED AB	REVISED -
	PLOT DATE = 3/12/2010	DATE 03/19/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 15TH STREET BRIDGE AND RETAINING WALL 'D' PLANS

SCALE: NONE | SHEET NO. 14 OF 22 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-2HB	ST. CLAIR	345	266
		CONTRACT NO. 76C49		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		