## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 70 SECTION 82-3HVB-R-3 ST. CLAIR COUNTY

PIER CAP REPAIRS WITHIN POPLAR STREET COMPLEX











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## STANDARDS

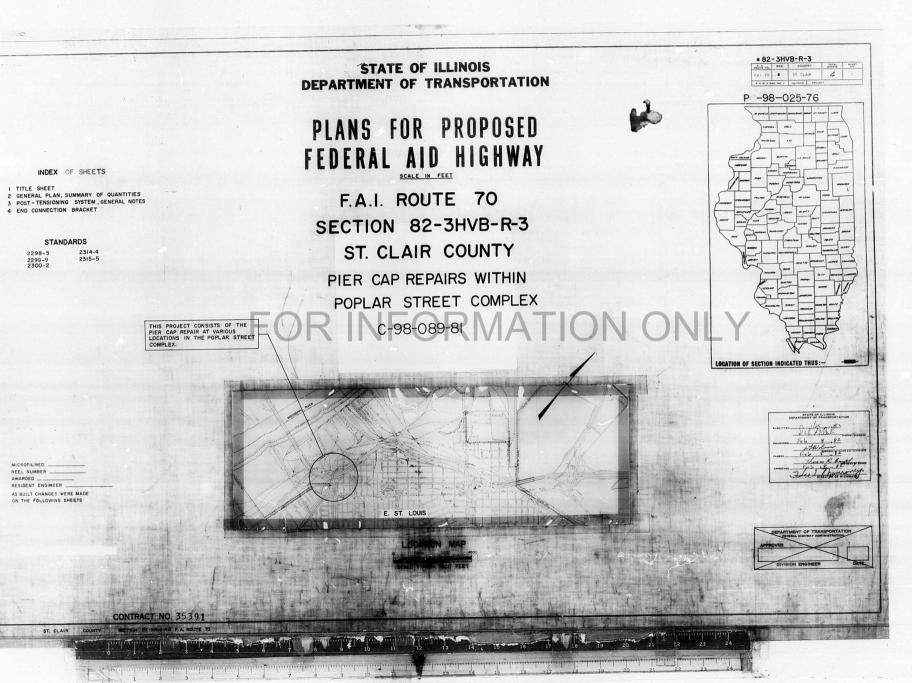
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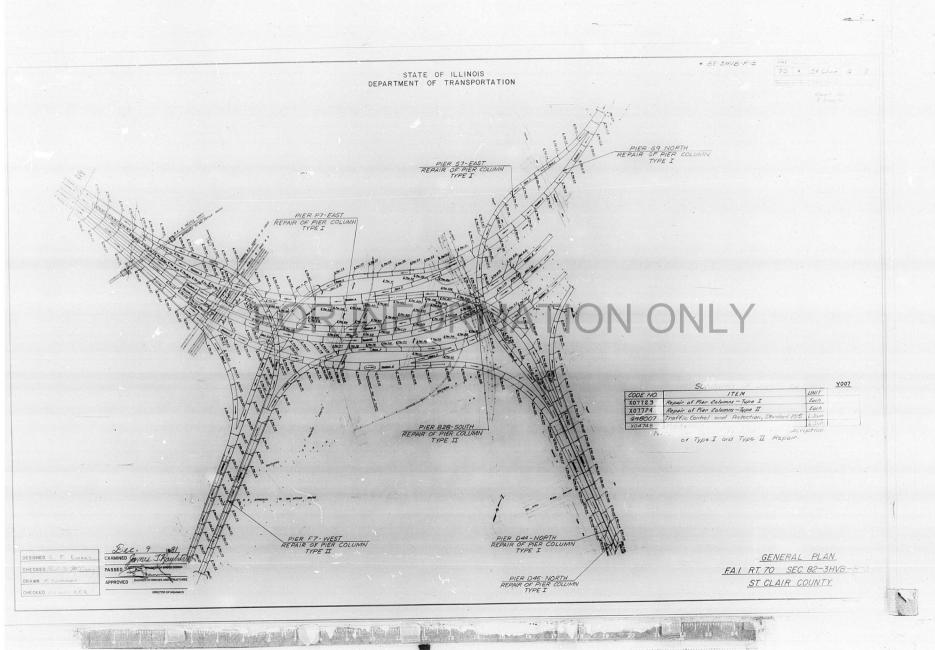
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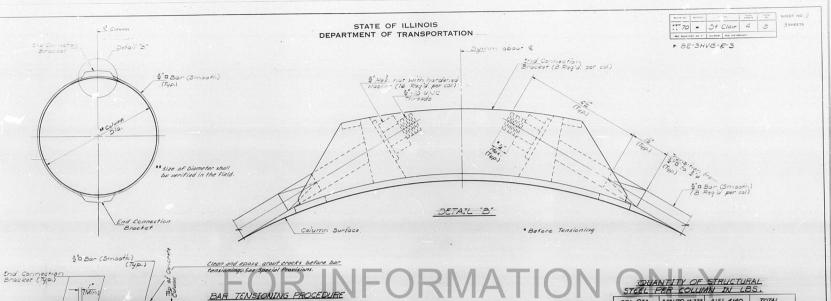
THIS PROJECT CONSISTS OF THE PIER CAP REPAIR AT VARIOUS LOCATIONS IN THE POPLAR STREET

MICROFILMED REEL NUMBER AWARDED . AS BUILT CHANGES WERE MADE

ST. CLAIR







The 34° bars shall be tensioned in sequence from the bottom bar to the top bar. Each bar shall be tensioned by tightening the nuts to the given torques according to the following sequence:

> 110 Ft. - Lb. 55 Ft.-Lb. 165 Ft.-Lb. 220 Ft.-Lb.

After tightening all four nuts and bar they shall all 'se cheeked for 220 ft. Lb. Torque according to the same above sequence and the threads shall be set.

COL. DIA.	AASHTO M-223	A151 4140	TOTAL
4'-0"	118	96	214
4'-6"	118	108	226
5'-0"	118	120	238
5'-6"	118	132	250
6-0"	118	144	262
6-6"	118	156	274
7'0"	117	168	285

All Structural Steel is incidental to Repair of Pier Columns-Type I or Repair of Pier Columns-Type II as applicable.

Surfaces to receive Post-Tonioning System shall be cleaned as required to eliminate projections. 
Ed Concection Bracket shall conform to the requirements of A.A.S.H.T.O. 
M.223 Grades 50. 
The 3-6 ben shall conform to the requirements of A/5/1 4140 
(Rockwell C Handness of 25 to 30). 
The 44 then nut shall conform to the requirements of A/5/1. M. 
A-400.

A lubricant approved by the Engineer shall be used between the

A Noticent approved by the Engineer shall be used between the 20 Deer and the concrete surface.

The end connection bracket and 36 bor shall be galvanized offer shop obtrication in accordance with A.A.S.H.T.O.M.III and the shap obtrication in accordance with A.A.S.H.T.O.M.III and shape the shape shall be appropriate in accordance with A.A.S.H.T.O.M.III. The nutrit and seathers shall be quivarized in accordance with A.A.S.H.T.O.M.III. The nutrit and seathers shall be appropriately shall be the consistence of the shall be the consistence in exposicibility to variety such dimensions and chall in the field and make necessary approved adjustment prior to construction or ordering of materials. Such such scape of the work, however, the unit price bid for the work.

POST-TENSIONING SYSTEM PIER COLUMNS REPAIR T. RT. 10 SEC. 81-3HVB-R-3 PIER COLUMNS ST. CLAIR COUNTY

DESIGNED R. F. ROSKEY CHECKED Rul S. M. C. CHECKED PS.MS RFR



TOP OF PIER COLUMNS For locations see Special Provisions



