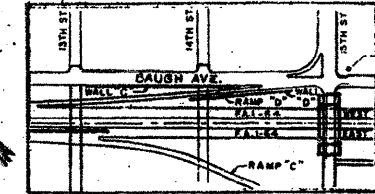
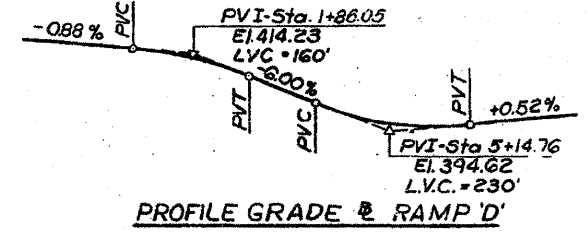
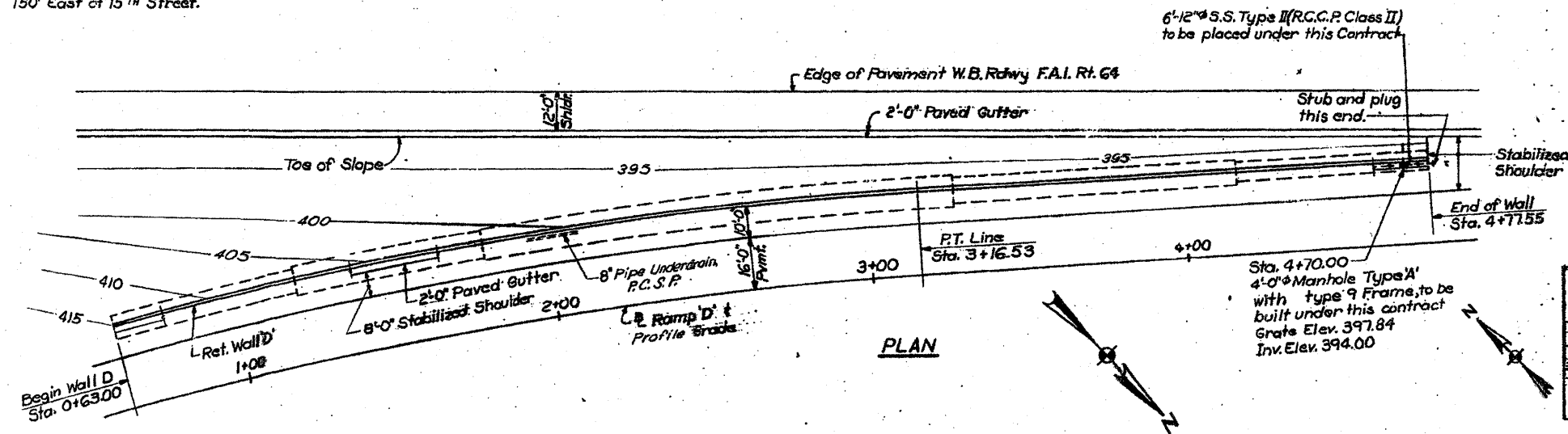


FOR INFORMATION ONLY

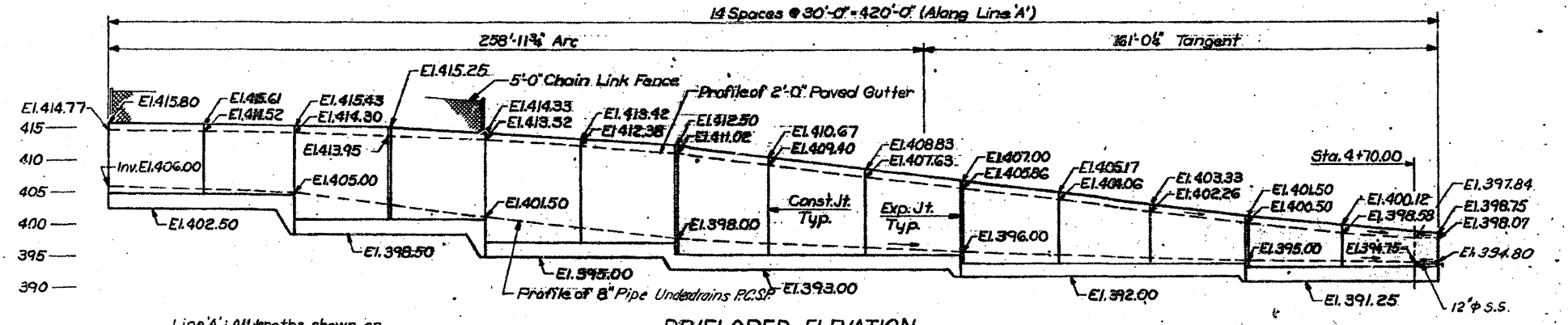
Bench Mark C-11 El.414.780 Cut 3/4" C.B. Pin point farthest from Curb North side of Baugh Ave. 150' East of 15TH Street.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I.-64	82-1HB	ST. CLAIR	110	51
FED. ROAD DIV. NO. 4		ILLINOIS	PROJECT	



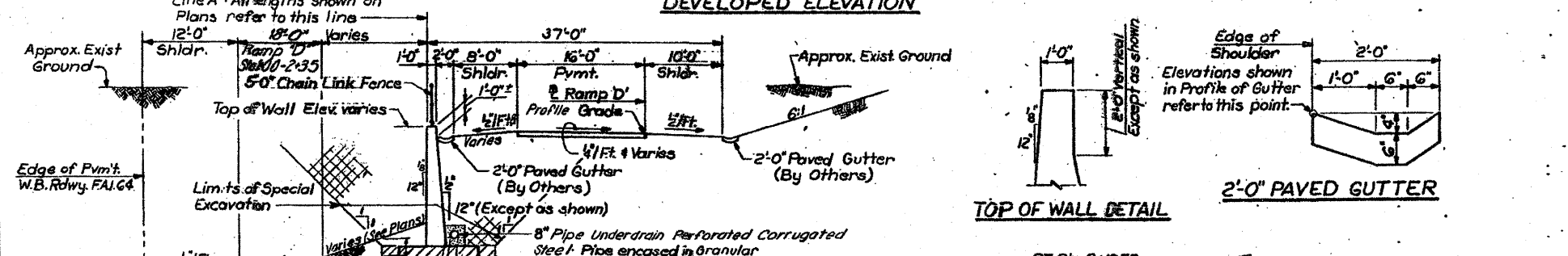
CURVE DATA - RAMP 'D'

PI =	Sta. 1+80.14
Δ =	12° 28' 51.2"
D =	4° 33' 26.16"
R =	1257.24'
L =	273.87'
T =	137.48'
E =	7.59'
S.E. =	0.0208'/ft



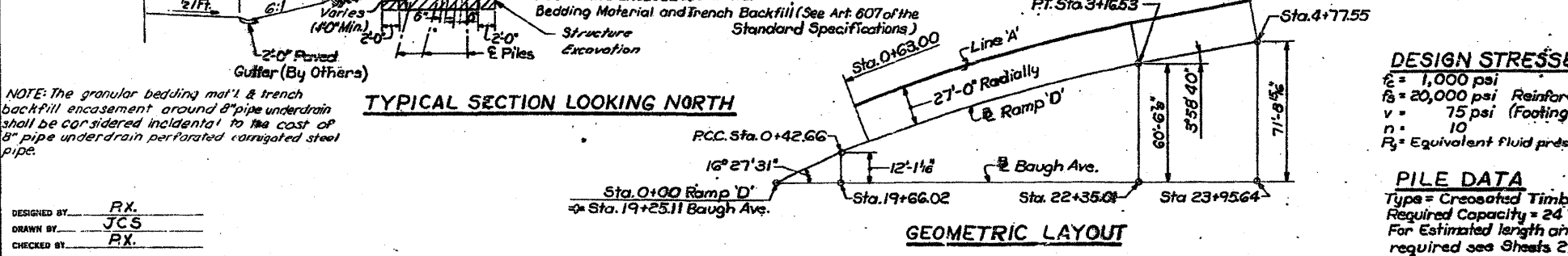
GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters minimum unless otherwise shown. The Contractor shall drive two timber test piles in the vicinity of the retaining wall as directed by the Engineer before ordering the remainder of piles. The back of the retaining wall shall be waterproofed from top of footing to finish grade in accordance with Art. 501 of the Standard Specifications. All cross-reference sheet numbers shown on plans are the numbers located in the lower right hand corner.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Class X Concrete	Cu. Yds.	524
Reinforcement Bars	Lbs.	40,620
Furnishing Crosstied Timber Piles (20' to 30')	Lin. Ft.	4,994
Test Piles (Timber)	Each	2
Structure Excavation	Cu. Yds.	430
8" Pipe Underdrains Perfor. Corr. Stl. Pipe	Lin. Ft.	420
Chain Link Fence 5'	Lin. Ft.	118.5
Special Excavation	Cu. Yds.	9825



DESIGN STRESSES

$E_c = 1,000$ psi
 $f_s = 20,000$ psi Reinforcement
 $v = 75$ psi (Footing)
 $n = 10$
 $P_3 =$ Equivalent fluid pressure = 40 p.c.f.

PILE DATA

Type = Crosstied Timber Piles
 Required Capacity = 24 Tons
 For Estimated length and number of piles required see Sheets 2, 3 and 4.

STATE OF ILLINOIS
 DIVISION OF HIGHWAYS
 GENERAL PLAN
 RETAINING WALL "D"

F. A. I. RT. 64 ST. CLAIR CO. SECTION 82-1HB
 H. W. LOCHNER, INC.
 ENGINEERS
 CHICAGO, ILLINOIS

SHEET 1 OF 6