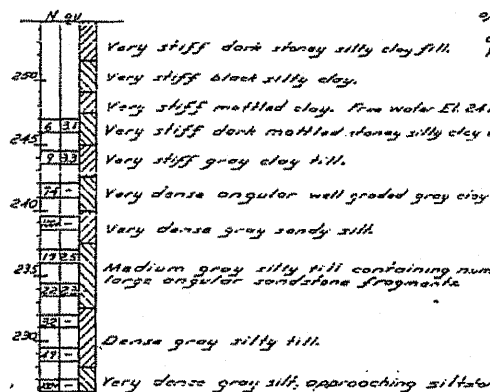
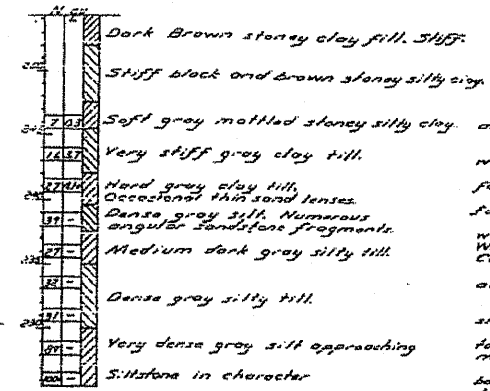
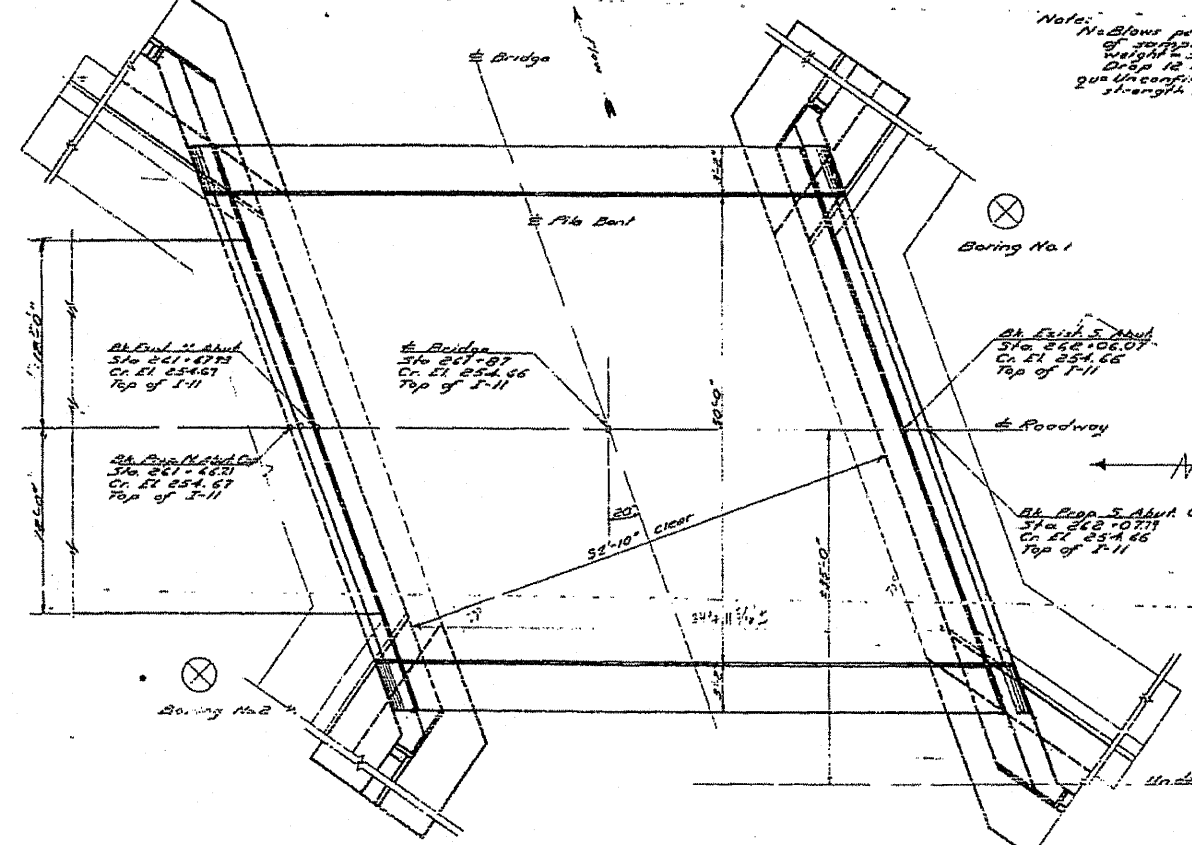
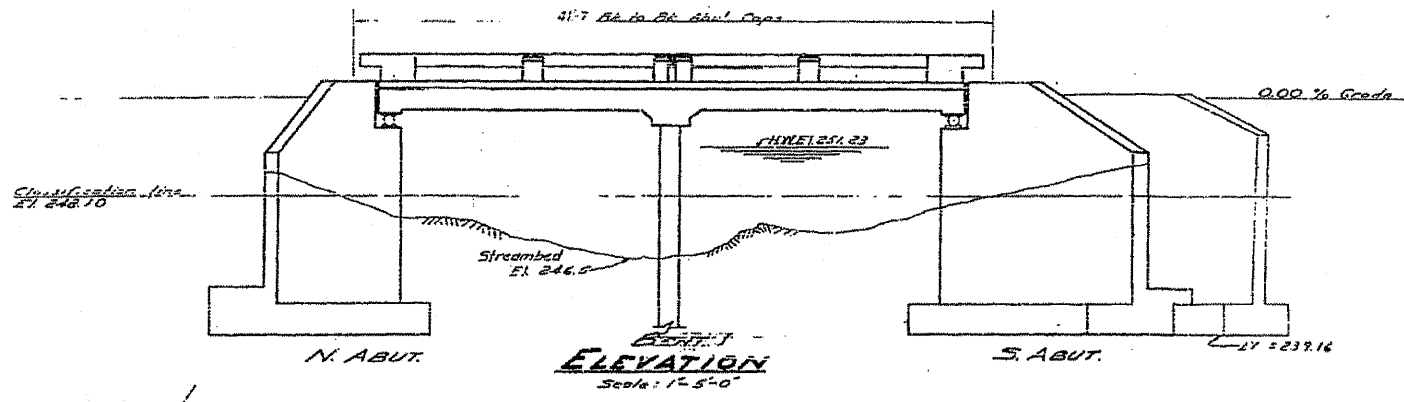


B.M. Top of NW Wing - elev. 254.33  
 Existing Structures: R.C.D.G. 322' Span @  
 Rt. 47 Roadway on RC Abutts.  
 Bridge Contractor shall remove existing  
 superstructure and portions of existing  
 Abutts necessary to facilitate widening - No Salvage

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

DATE	BY	PROJECT	SHEET NO.	TOTAL SHEETS
8/11/08	BY	Grundy	34	13
SHEET NO. 1 3 SHEETS				



**GENERAL NOTES**

Class 2 Concrete shall be used throughout except as noted.  
 Handrail Concrete shall be used in rail and posts.  
 The floor slab shall be finished in accordance with Sec. 29 of the Standard Specifications.  
 The Handrail shall not be poured until after the formwork has been removed.  
 The Contractor shall provide for Expansion Joints shall include furnishing, setting holes, and setting expansion bolts.  
 The following surfaces of the bridge shall be waterproofed: The top of the proposed Main Wall and Wing Walls from top of slab or top of Wall to datum of Cop. See Art. 5180 of the Standard Specifications.  
 Sealing behind abutments shall be done in accordance with Art. 5010 of the Standard Specifications.  
 No piles under existing structure.  
 The curbs shall be poured monolithically with the slab.  
 Boring Data are shown on the plan only as a guide to the bidders in estimating soil conditions which may be encountered in the work.  
 All rollers, bearing plates, fastenings and anchor bolts shall be fabricated and installed in accordance with Article 5110 of the Standard Specifications and are included for payment on structural Steel, Art. 5100.10.  
 The contractor shall drive one test pile in a permanent location as directed by the Engineer before ordering the remainder of the pile.  
 The 16" x 16" Slab shall be poured in one continuous operation.  
 Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. All paint shall be furnished and applied by the Contractor.

Notes:  
 No Blows per foot of penetration of sounding hammer. Hammer weight = 330 lbs.  
 Drop 12 inches.  
 200 unconfined compressive strength in tons per sq. ft.

**WATERWAY INFORMATION**

Drainage Area	3700 Acres
Character	level, rolling, cultivated
Required Opening	98 Sq. ft.
Present Opening	113 Sq. ft.
Proposed Opening	107 Sq. ft.

**TOTAL BILL OF MATERIAL**

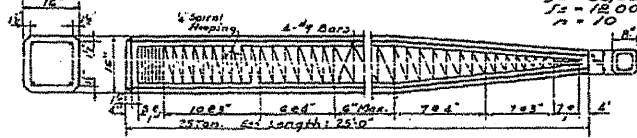
ITEM	SUPER	SUB	TOTAL
Class 2 Concrete	Cu Yds	58.3	117.2
Handrail Concrete	Cu Yds	2.0	2.0
Reinforcement Bars	Lbs	14,340	24,010
Concrete Removal	Cu Yds	9.0	9.0
16" x 16" Slab	Sq. Ft.	60	60
Name Plates	Lbs	1	1
Structural Steel	Lbs	3000	3000
Test Piles	Lbs	1	1
Precast Concrete Piles (16" x 16")	Lbs	125	125
Removal of Existing Structure	Lbs	one	one
Temporary Bridge Curbs	Lbs	one	one
Class A Gravel For Street	Cu Yds	81	81
Class B Gravel For Street	Cu Yds	307	307

**DESIGN STRESSES**

f<sub>c</sub> = 1400 psi Superstructure  
 f<sub>c</sub> = 800 psi Substructure  
 f<sub>s</sub> = 80,000 psi Reinforcement  
 f<sub>s</sub> = 12,000 psi Structural  
 n = 10

**PLAN**

Scale: 1" = 5'-0"



DETAIL OF PRECAST CONCRETE PILES

STATION 261+87  
 BUILT 195 BY  
 STATE OF ILLINOIS  
 S.B.I. RT. 47 SEC. 118 BY  
 F.A. PROJ. F-204(5)  
 LOADINGS H-20-S16

LETTERING FOR NAME PLATE  
 See STD 215

**GENERAL PLAN & ELEVATION**

PROJECT F-204(5)  
 S.B.I. RT. 47 SECTION 118 BY  
 GRUNDY COUNTY  
 STATION 261+87

DESIGNED	Hand P. Wender	EXAMINED	W. H. Hansen
CHECKED	J. D. Nightingale	PERSED	[Signature]
DRAWN	H. P. Griffin	APPROVED	R. D. [Signature]
CHECKED	[Signature]		