ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 885	104BR-1	UNION	37	25

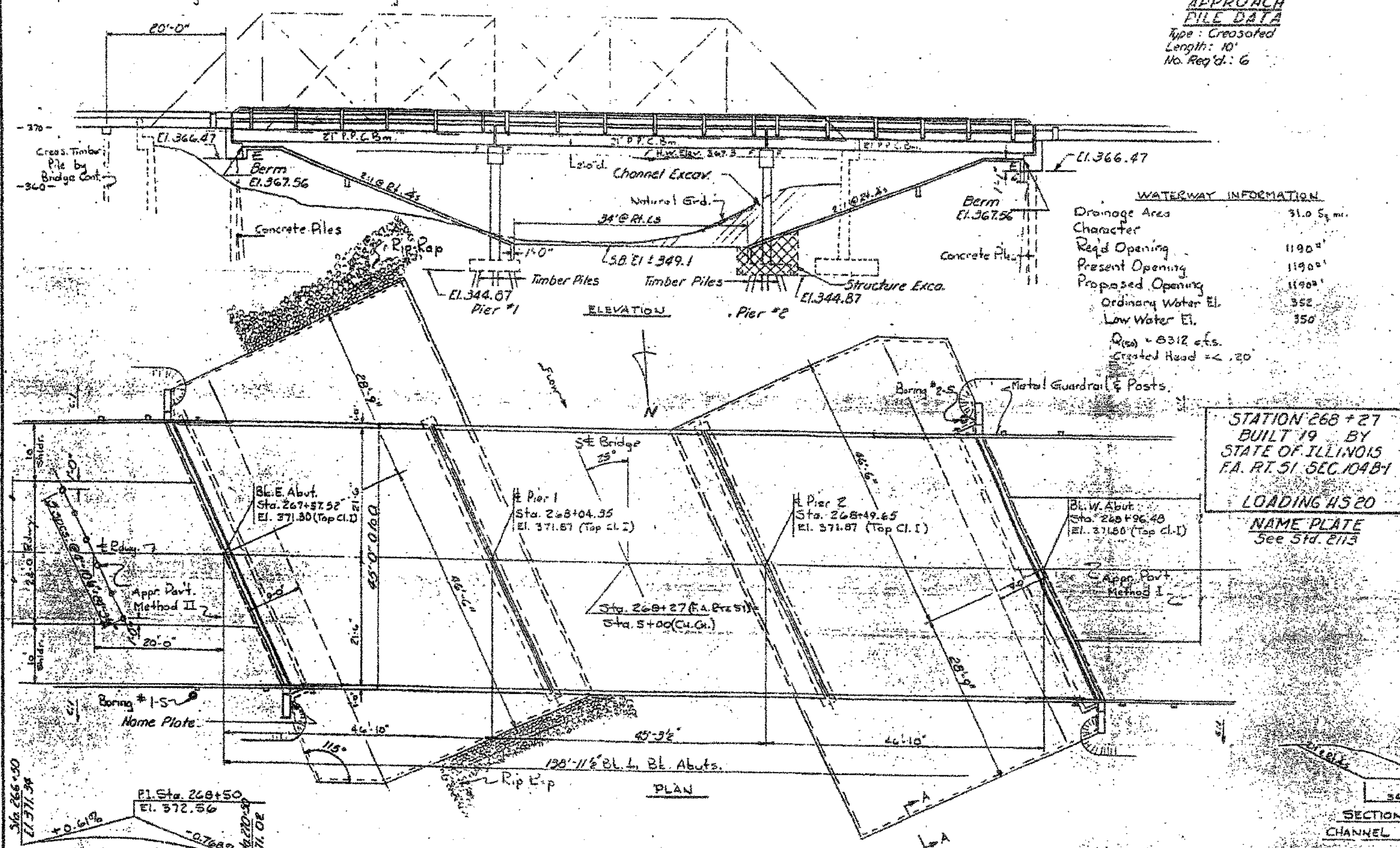
SHEET NO. 1
9 SHEETS

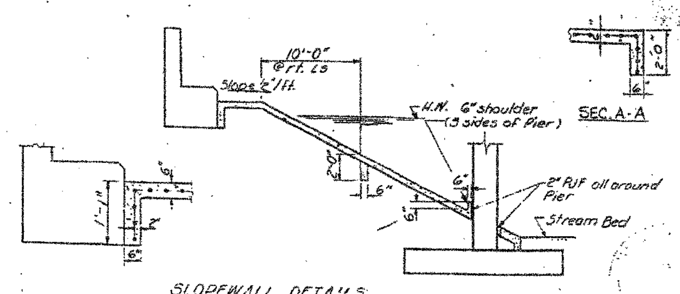
Contract # 78025

B.M. Sq. cut in N.E. Wingwall 16' Rt. Sta. 267+44 El. 370.14
Existing Structure – Penn Truss - 120' Span, 22' wide, RC.
Closed Abuts. Built 1932 as Sec. 104BC Sta. 263+05
S.B.I. Rt. 146. Existing Structure to be removed prior to new Bridge construction. No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1
9 SHEETS





*The initial jacking force per strand shall be 21,700 lbs.

PRECAST PRESTRESSED UNIT
f'c = 5000 p.s.i.
f'ci = 4000 p.s.i.
f's = 270,000 p.s.i. (7/16" ϕ Strands)
*fsi = 188,700 p.s.i. (7/16" ϕ Strands)

DESIGN STRESSES (Field Unit)
fc = 1400 p.s.i. (Sub & Curb)
fs = 20,000 p.s.i. (Reinf.)
n = 10
Vc = 90 p.s.i.

Allow 25#/□' for future wearing surface

Design Specifications AASHO, 1969 as applicable

LOADING HS 20-44

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

The basic lead silico chromate paint system shall be used for two coats of shop painting of structural steel.

Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07 (c) of the Standard Specifications and are included in quantity of structural steel.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.

Layout of slope walls may be varied in the field to suit ground conditions as directed by the Engineer.

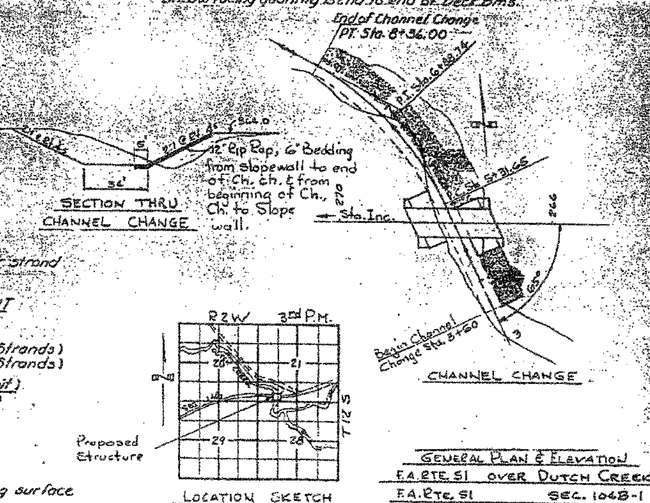
The Contractor shall drive one test pile each in a permanent location at E. Abutment and Pier 2 as directed by the Engineer before ordering the remainder of piles.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
* Bit. Concrete Surface Course Class I	Tons	116		116
Removal of Existing Structures	Each			1
Channel Excavation *	Cu. Yds.		7539	7539
Class X Concrete	Cu. Yds.	9.3	224.9	234.2
P.P.C. Deck Beams 21"	Sq. Ft.	6106		6106
Structural Steel	Lbs.	4040		4040
Steel Railing Type T	Lin. Ft.	272		272
Reinforcement Bars	Lbs.	370	17430	17800
Name Plates	Each		1	1
Protective Coat	Sq. Yds.	45		45
Waterproofing Membrane System	Sq. Yds.	656		656
Untreated Piles up to 30'	Lin. Ft.		825	825
Untreated Piles 30.1 to 45'	Lin. Ft.		1024	1024
Concrete Piles	Lin. Ft.		818	818
Test Piles Timber	Each		1	1
Test Piles Concrete	Each		1	1
Structure Excavation	Cu. Yds.		240	240
Slope Wall 6"	Sq. Yds.		890	890
Preformed Jt. Sealer 2½"	Lin. Ft.	100		100
Stone Riprap	Sq. Yd.		1905	1905
Creosoted Piles Up to 20 Ft.	Lin. Ft.		60	60
Pavement Removal	Sq. Yds.	60		60

* Bit. Surfacing quantity is end to end of Deck Bms.



GENERAL PLAN & ELEVATION
F.A. RTE. 51 OVER DUTCH CREEK
F.A. RTE. 51 SEC. 104B-1
UNION COUNTY
STA. 268+27

DESIGNED	G.E. Ozyurt
CHECKED	D.A.R.
DRAWN	BKR
CHECKED	D.A.R.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
EXISTING STRUCTURE PLANS

PROJECT
IL ROUTE 146 OVER DUTCH CREEK
FAP ROUTE 885 SECTION 104BR-1
UNION COUNTY
STATION 268+27.00
STRUCTURE NUMBER 091-0059

PROJECT NO. 06056-5
DRAWN BY CFC
CHECKED BY MCB/BD

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

DRAWING NO. 1 OF 9 SHTS

PLOT DATE = 12/03/2007
PLOT SCALE = 1" / IN.
USER NAME = CFC