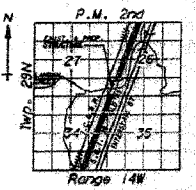


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
1324	38 BR-1	IROQUOIS	29 16
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

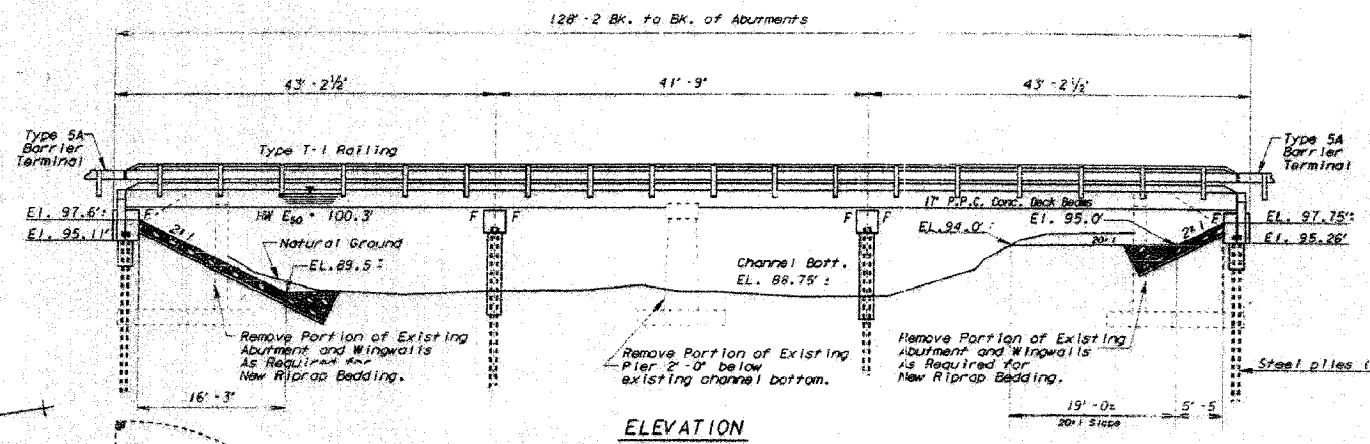
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	ALL	SCALE	SHEET
11/16/05	38 BR-1	AS SHOWN	29 16
DESIGNED BY	DATE	SCALE	SHEET
J. M. BOTT	11/16/05	AS SHOWN	29 16

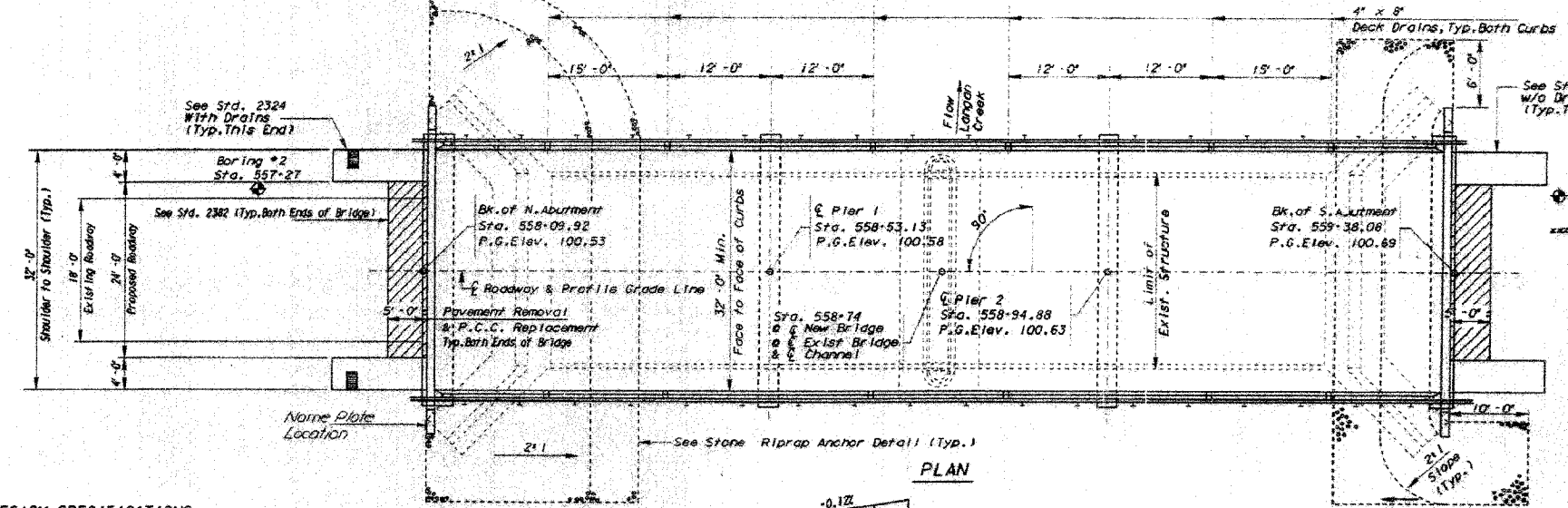
B.M. 2' Chiseled 'I' Cut on N.E. Railroad Abutment
Sta. 558+20, 105' Right, Elevation 100.88'
Existing Structure: 038-0114 Built as Part
of S.B.I. Rte. 25 Section 38B of Sta.
558+74 in 1921. Two Span R.C. thru Girder
Structure on Closed Abutments & Solid Pier.
10' " Back to Back of Abutments and
24' " Out to Out of Deck. Existing
Structure to be Replaced by P.C. Deck
Beams on Open Abutments and Piers.
Contractor to Remove Existing
Structure as Necessary to Accommodate
New Bridge. Traffic to be Detoured.
Salvage None



LOCATION SKETCH



- GENERAL NOTES**
- See Sheet 29 for Boring Data.
 - Reinforcement bars shall conform to the requirements of AASHTO Standard Specifications for Highway Bridges, 1994 Edition, Section 5.12.2.3 Grade 60.
 - The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".
 - A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
 - Protective Coat shall not be applied to surfaces to which Membrane Waterproofing is applied.
 - The contractor shall drive TWO Steel I-Beam piles in permanent locations (ONE @ North Abut. and ONE @ Pier No. 2) as directed by the Engineer before ordering the remainder of piles.
 - Layout of stone riprap may be varied in the field to suit ground conditions as directed by the engineer.

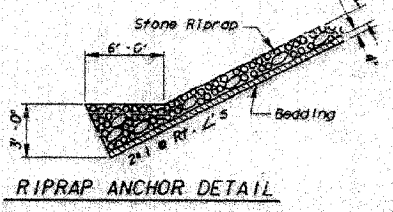


TOTAL BILL OF MATERIAL

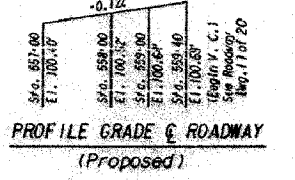
Item	Unit	Super.	Sub.	Total
Removal of Existing Structures	Each		1	1
Class X Concrete Encasement	Cu. Yd.		92	92
Structure Excavation	Cu. Yd.		92	92
Steel Piles HP 10 x 42	Ltn. Ft.		949	949
Test Piles, Steel HP 10 x 42	Each		2	2
Class X Concrete	Cu. Yd.		47.8	47.8
Reinforcement Bars	Pounds	380	540	5920
P.P. Concrete Deck Beams, 17' 0"	Sq. Ft.	4250		4250
Waterproofing Membrane System	Sq. Yd.	452		452
Bituminous Conc. Surf. Crse. C.I. 1	Tons	55		55
Steel Railing, Type T-1	Ltn. Ft.	252		252
Stone Riprap	Sq. Yd.		304	304
Name Plates	Each		1	1
Pavement Rem. & P.C. Rep. 72' RT	Sq. Yd.		27	27
P.C. Mortar Fairing Course	Ltn. Ft.		1000	1000
Protective coat	Sq. Yd.		42	42
Class X Concrete Superstructure	Cu. Yd.	11.3		11.3

DESIGN SPECIFICATIONS
1983 AASHTO & 1984 & 1985 Interim
HS20-44 Loading

DESIGN STRESSES
FIELD UNITS
F_c = 3,500 p.s.i.
F_y = 60,000 p.s.i.
PRECAST PRESTRESSED UNITS
F_c = 5,000 p.s.i.
F_{o1} = 4,000 p.s.i. (Fascia Beams)
F_{o1} = 4,200 p.s.i. (Interior Beams)
F_s = 270,000 p.s.i. (1 1/2" strands)
F_{s1} = 189,000 p.s.i. (1 1/2" strands)
Allow 25'/sq. ft. for future wearing surface.



RIPRAP ANCHOR DETAIL



PROFILE GRADE & ROADWAY (Proposed)

LEGEND
[Symbol] Denotes Pavement Removal
[Symbol] Denotes Soil Boring

WATERWAY INFORMATION

Drainage Area = 84.8 Sq. MI. Low Grade Elev. = 98.95 At Sta. 541+00

Flood	Freq.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	50	2412	762	841	100.3'	0.24	0.20	100.54	100.50
Base	100	2729	762	841	100.9'	0.31	0.26	101.21	101.15
Overlapping	25	2078		841	99.6'		0.02	99.62'	99.62'
Max. Calc.	500				99.0'				



APPROVED
FOR STRUCTURAL ADOPTION ONLY
James J. Sutherland
Engineer of Bridges and Structures

STATION 558+74
BUILT 19 BY
STATE OF ILLINOIS
S.B.I. RT. 25 SEC. 38 BR-1
LOADING HS-20
STR. NO. 038-0185
NAME PLATE
(SEE STD. 2113)

PROJECT 558-0185 (65)

GENERAL PLAN & ELEVATION

S.B.I. ROUTE 25
OVER Langan Creek

SECTION 38 BR-1
IROQUOIS COUNTY
STATION 558+74

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
FAS 1324 (OLD US RTE 45)
SECTION 38 BR-1
IROQUOIS COUNTY

SCALE: VERT. DATE: 11/16/05
HORIZ. DATE: 11/16/05
DRAWN BY: SUTHEARD
CHECKED BY: BOTT

GREENE & BRADFORD, INC.
OF SPRINGFIELD
COMPUTER FILE NO. 03236.W010.EPLN
PROJECT 03236 W010
11/16/05 - MDS

FOR INFORMATION ONLY

PLT DATE = 12/9/2005
FILE NAME = J:\03236\W010\DRAWINGS\03236.W010.EPLN.dwg
DRAWING NO. = 03236.W010
REFERENCE = REF.
OPERATOR = JMB