

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	114 BR	LIVINGSTON	43	32
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

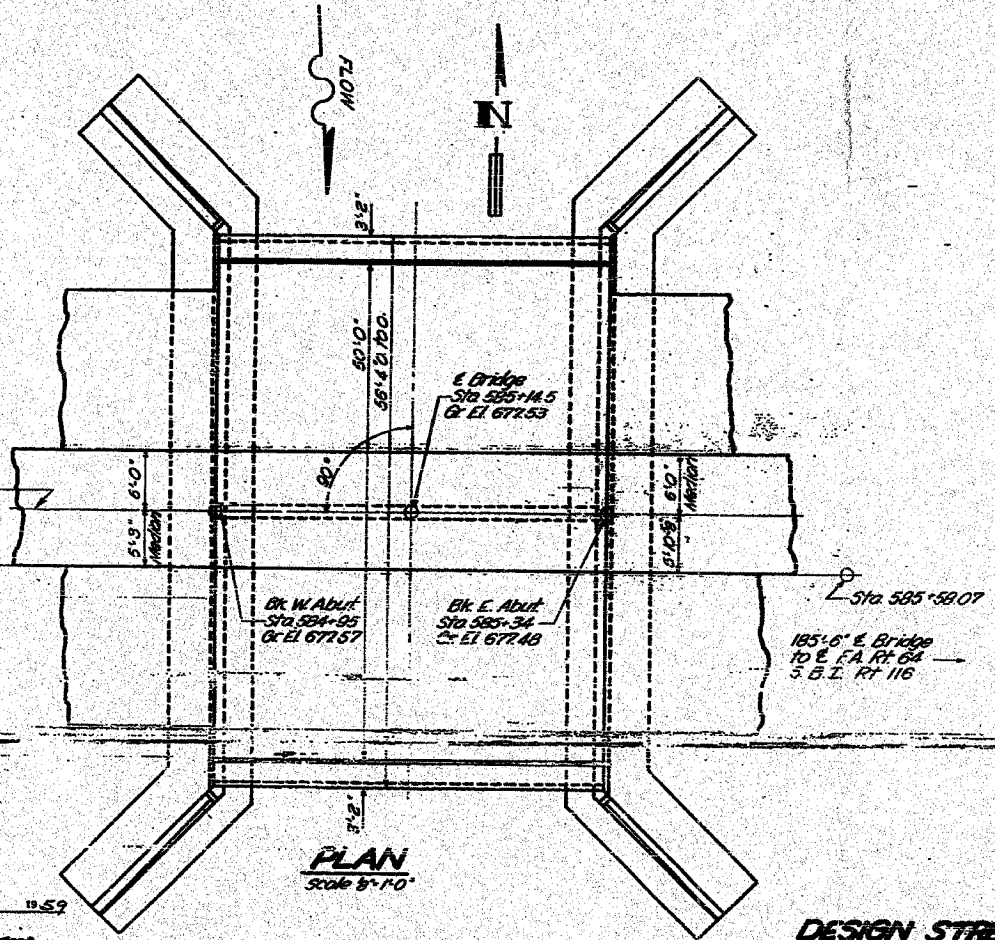
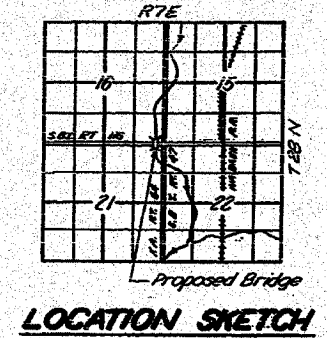
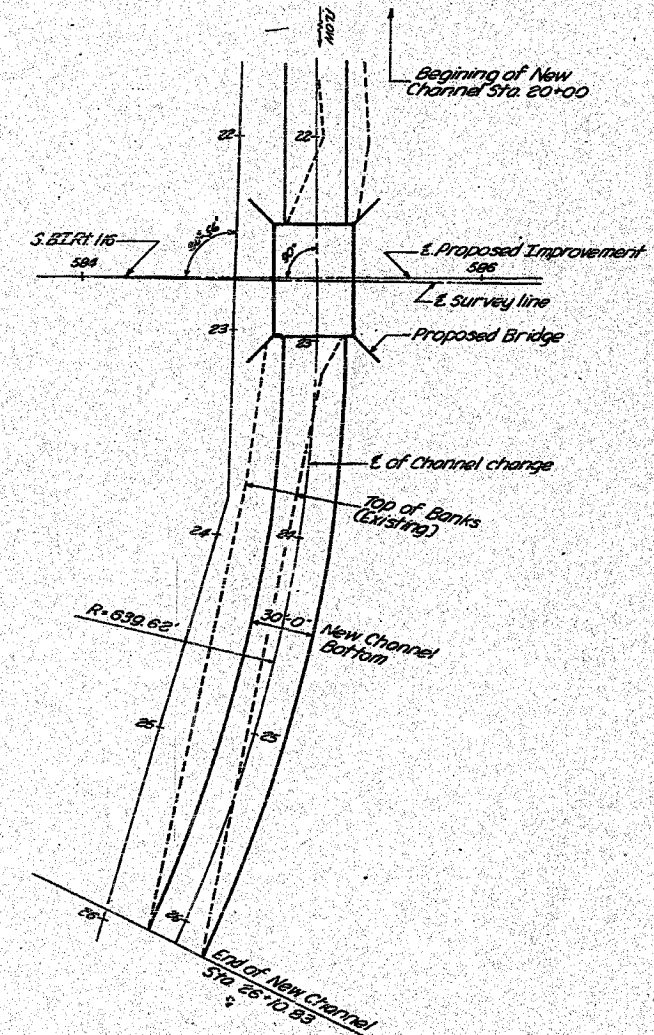
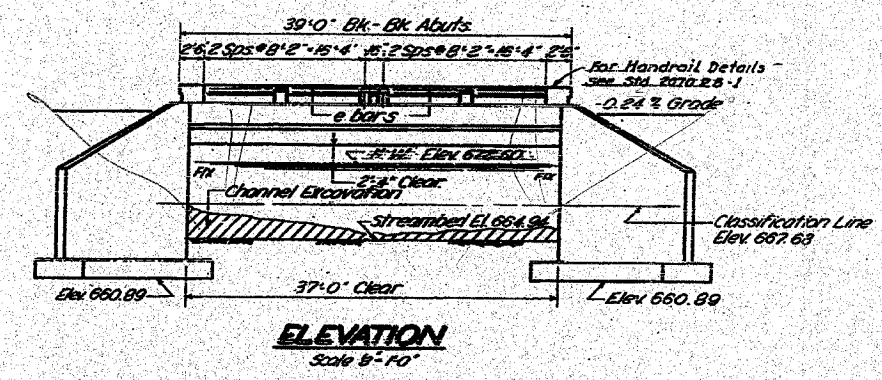
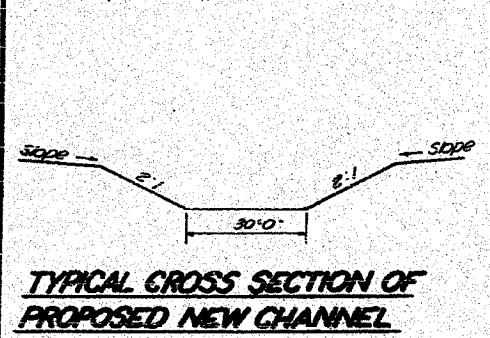
NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	CLASS A CONCRETE	207.7	CU YDS	1.50	311.55
2	REINFORCEMENT BARS	12,920	LB	0.15	1,938.00
3	PRECAST PRESTRESSED CONCRETE BRIDGE DECK	2102	SQ FT	0.10	210.20
4	BRIDGE DECK SEALANT	167	SQ YDS	1.00	167.00
5	PROTECTIVE COAT	89	SQ YDS	1.00	89.00

GENERAL NOTES

Class A Concrete shall be used throughout except in handrails.
 Handrail Concrete in the rail posts and railing shall be poured in separate operations.
 Handrail Concrete shall be used in handrails. For backfill behind abutments held in place by Superstructure, see Article 50.10 of the Standard Specifications.
 The following surfaces of the abutments shall be water proofed: the backs of the exterior walls above the lower construction joints and the backs of the wings above the tops of the footings. Water proofing shall be done in accordance with Article 51.01 of the Standard Specifications.
 Protective coat to be applied to face top of curbs and median.
 Bridge deck sealant to be applied to top of prestressed beams between face of curb and median.

B.M. Spike and Washer in Telephone Pole 40' RT Sta 583+17 Elev 675.59
 Existing Structure: R.C. Through Girder, 40' cl. opening, 24' x 5' Roadway, Built 1921, R.C. Abutments to be removed by Bridge Contractor before starting new construction.
 Salvage - None
 Temporary Structure will be required.

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



TOTAL BILL OF MATERIAL

Item	Unit	Super	Subst	Total
Class A Concrete	Cu Yds	207.7	163.0	207.7
Handrail Concrete	Cu Yds	20		20
Reinforcement Bars	Lbs.	13,600	11,320	12,920
Precast Prestressed Concrete Bridge Deck	Sq. Ft.	2102		2102
Class A Excavation for Str.	Cu Yds		175	175
Class B Excavation for Str.	Cu Yds		305	305
Bridge Deck Sealant	Sq. Yds	167		167
Name Plates	Each	1		1
Removal of Exist. Struct.	Each		1	1
Temporary Bridge Comp.	Each		1	1
Protective Coat	Sq. Yds	89		89

STATION 585+14.5
 BUILT 19 BY
 STATE OF ILLINOIS
 S.B.E. RT 116 SEC 114 BR

LETTERING FOR NAME
 PLATE SEE STD. 2113-1

DESIGNED: D.P. Cooper
 CHECKED: Charles R. Jones
 DRAWN: J. Putnam
 CHECKED: D.P. Cooper
 EXAMINED: M.P. [Signature]
 PASSED: [Signature]
 APPROVED: R.H. [Signature]

PRESTRESSED DESIGN STRESSES

f_c = 5000 p.s.i.
 f_{si} = 180,000 p.s.i. (Prestressing Steel)
 f_{ci} = 4000 p.s.i.
 f_s = 250,000 p.s.i. (Cables)

DESIGN STRESSES

f_c = 1400 p.s.i. Superstructure
 f_c = 1000 p.s.i. Substructure
 f_s = 20,000 p.s.i. Reinforcement
 f_s = 18,000 p.s.i. Structures
 Maximum Friction Angle = 2.71°
LOADING H20-S16-44

WATERWAY INFORMATION

Drainage Area: 6300 Acres
 Character: Level Rolling Clay
 Required Opening (25 Yr. Flood): 230 Sq. Ft.
 Present Opening: 229 Sq. Ft.
 Proposed Opening: 280 Sq. Ft.
 Low Water Elev. 655.68

GENERAL PLAN & ELEVATION
S.B.E. RT. 116 SEC 114 BR
LIVINGSTON COUNTY
STATION 585+14.5

PLOT DATE: Aug 24, 2007 - 11:06:08 AM
 PLOT SCALE: 20.0000
 USER NAME: Ferguson