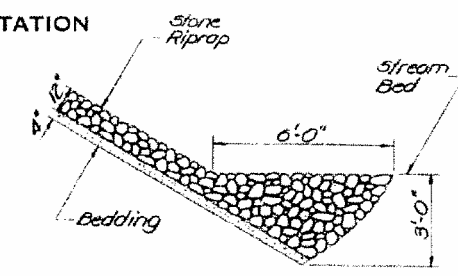
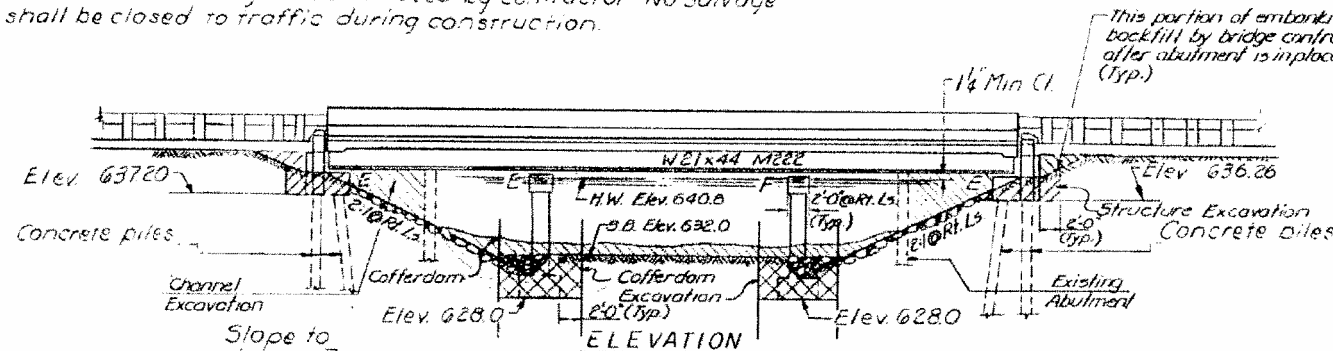


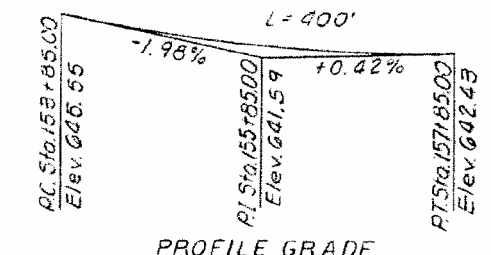
S.M. Chiseled square on north end of west abutment Elev. 644.21
 Existing structure #070-0012 Built as S.A. Rte. 8, Sec. 1-A-MFT @ Sta 154+74.
 In 1935 - One span steel W beam set on creosoted plank and timber pile closed
 abutments. Bk. to Bk. Abut. 53'-10" superstructure width o to o. water table
 25'-0" @ Rt. Ls to E of Rdwy. To be removed by contractor. No salvage
 Road shall be closed to traffic during construction.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

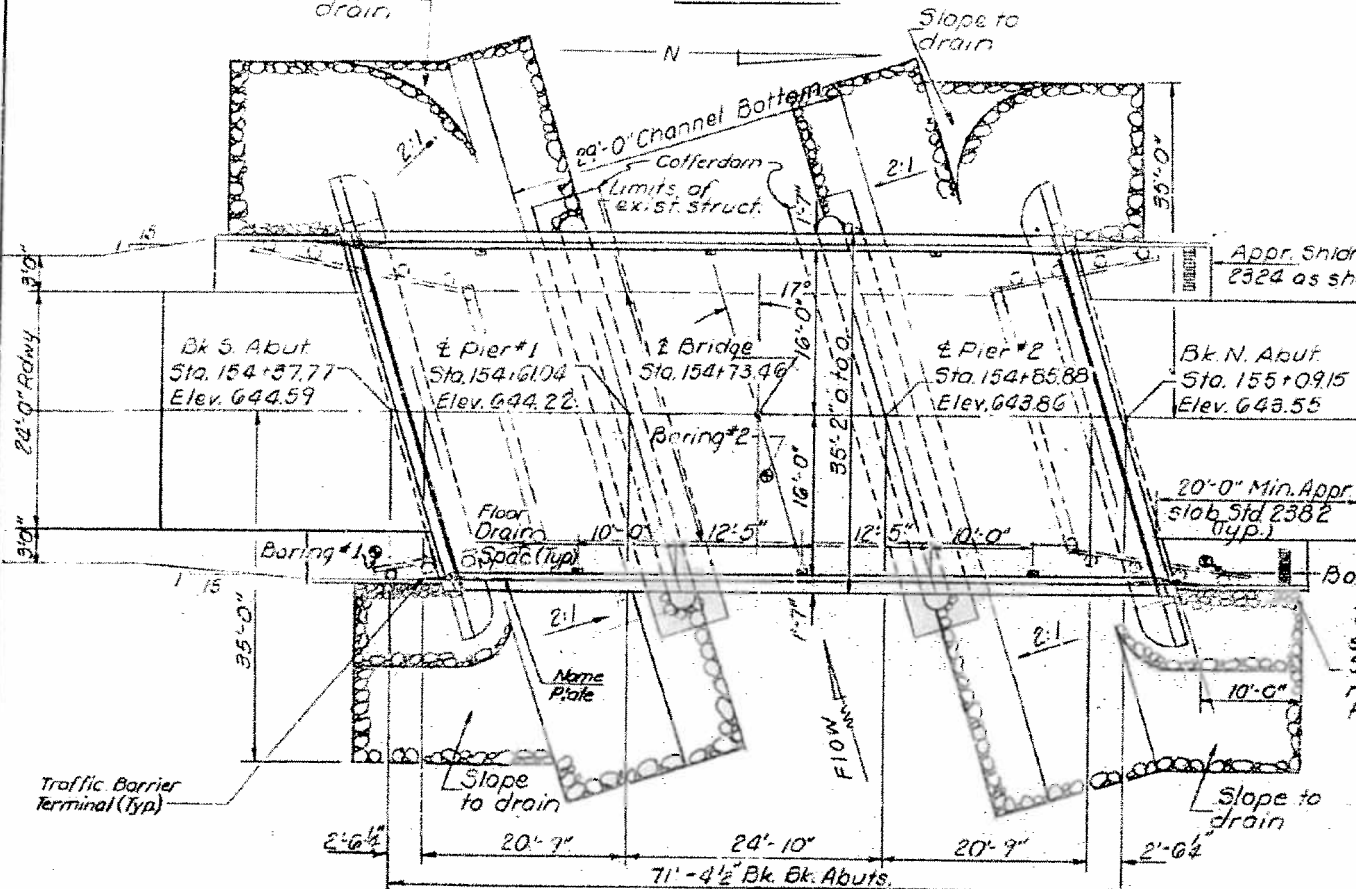
PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS	SHEET NO. 1
070-0012	1BR-1	Moultre	38	9
				11 SHEETS



RIPRAP ANCHOR DETAIL
 (At Rt. Ls.)



PROFILE GRADE



PLAN

STATION 154+73.46
 JONATHAN CREEK
 BUILT 198
 F.A.S. RTE. 659 SEC. 1BR-1
 PROJ. BR-S-659 (102)
 LOADING HS20
 *STR. NO.

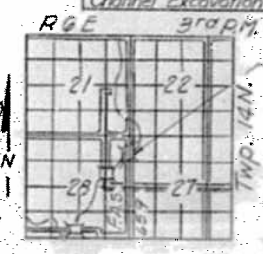
NAME PLATE
 (See Std. 2:13)
 * Structure number to be
 supplied by District.

The width between guardrails
 shall be the width of the bridge.
 Shoulder widening may be
 required for the length of
 the guardrail.

DESIGN STRESSES

$f_c = 3,500$ psi.
 $f_y = 60,000$ p.s.i. (Reinf.)
 $f_y = 50,000$ p.s.i. Struct.
 Steel A7222 (unpainted)

Design specifications: 1977 AASHTO,
 1976, 1979 & 1980 Interim Specifications
 Allow 25*/sq ft. for future wearing
 surface.



LOCATION PLAN

GENERAL NOTES

See Proposal for Boring Data.
 Fasteners shall be high strength bolts (AASHTO
 M 16A, Type 3). Bolts 3/4" dia, open holes 5/8", unless
 otherwise noted.
 Calculated weight of Structural Steel = 22660 lbs.
 All structural steel shall be AASHTO M 222
 unpainted except expansion joint angles and attached
 bars which shall be AASHTO M 183 and shop painted
 with two coats of basic lead silica chromate paint.
 Field welding of construction accessories will not be
 permitted to the bottom flange of beams or girders nor to
 the top flange for a distance equal to one-fourth the span
 length each way from the pier supports. Field welding in
 other areas will be permitted only when approved by the
 Engineer.
 Anchor bolts shall be set before bolting diaphragms
 over supports.
 The contractor shall drive one concrete test pile
 in a permanent location at the S.E. Abut. as directed by the
 Engineer before ordering the remainder of piles.
 Bearing seat surfaces shall be constructed or adjusted
 to the designated elevations within a tolerance of 1/8 inch.
 Adjustment shall be made either by grinding the surface
 or by shimming the bearing. Two 1/2" adjusting shims, of the
 dimensions of the bottom bearing plate, shall be provided for
 each bearing in addition to all other plates or shims.
 All contact surfaces of joints for the diaphragms
 shall be free of paint or lacquer.
 The main load carrying member components subject
 to tensile stress shall conform to the Supplemental
 Requirements for Notch Toughness Zone 2. These components
 are the tension flanges & webs of the wide
 flange beams.
 Reinforcement bars shall conform to the requirements
 of AASHTO M-21 or M-53 Grade 60.
 All structural steel for a distance of three times the depth
 of the beams or girders, but not exceeding 10 feet, each way
 from deck joints shall be cleaned and given one coat of the
 basic lead silica chromate primer and two coats of field coat.
 Both coats to be applied in the shop with spot painting
 only in the field.

TOTAL BILL OF MATERIALS

Item	Unit	Super	Sub	Total
Removal of Existing Structures No. 1	Each			1
Structure Excavation	Cu. Yd.			73
Floor Drains	Each			6
Class X Concrete	Cu. Yd.	79.3	136	209.3
Structural Steel	Lump Sum			0.3
Protective Coat	Sq. Yd.	297		297
Reinforcement Bars	Pound	1070	10590	11660
Reinforcement Bars (Epoxy Coated)	Pound	10730		10730
Concrete Piles	Lin. Ft.		348	348
Test Pile Concrete	Each		2	2
Name Plates	Each			1
Riprap	Sq. Yd.		500	500
Neoprene Expansion Joint (2")	Lin. Ft.	71		71
Cofferdams	Each		2	2
Cofferdam Excavation	Cu. Yd.		112	112
Channel Excavation	Cu. Yd.		135	135

WATERWAY INFORMATION

Drainage Area 20.40 sq mi. Low Grade Elev. 642.3'

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.	Net H.W.E.	Head - Ft.	Headwater Elev.
Design	50	1790	334 375	640.8	0.45 0.59	641.25 641.39
Base of Overlapping	100	2280	334 411	641.4	1.15 0.86	642.55 642.26

DESIGNED: *Chuck M. Peters*
 CHECKED: *Dale F. Schaub*
 DRAWN: *Stu Ferchow F.M.*
 CHECKED: *Dale F. Schaub*

October 6, 1981
 EXAMINED: *James H. Heston*
 PASSED: *Carl Thompson*
 APPROVED: _____

GENERAL PLAN & ELEVATION

CADWELL RD. OVER JONATHAN CREEK
 F.A.S. RTE. 659 SEC. 1BR-1
 MOULTRE COUNTY
 STA. 154+73.46