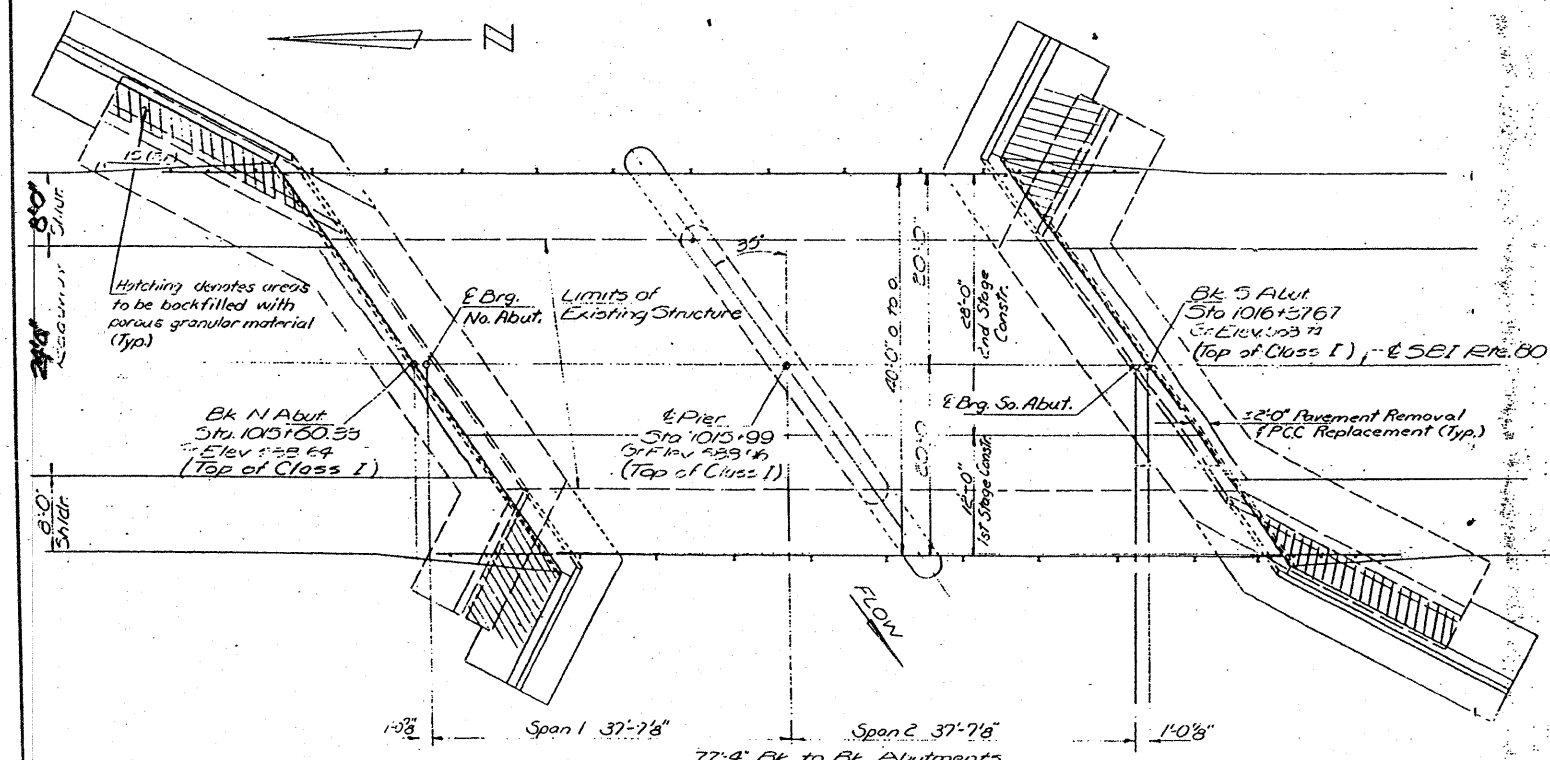
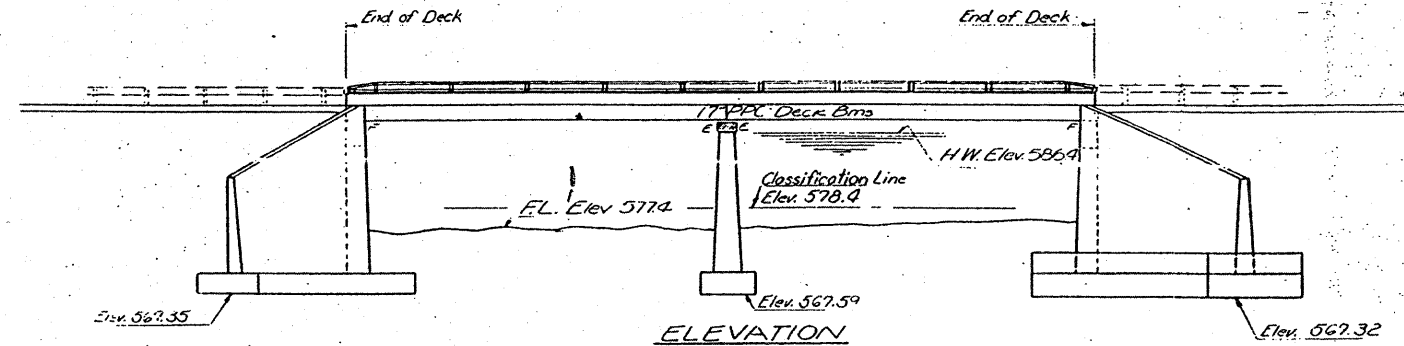


EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)

B.M. - Top of Bolt in conc. base of Power Inlet,
 100' RT. Sta. 1015+04, Elevation 590.69
 Existing Structure: Built as SBI 80 Sec. 109B
 Sta. 1015+99 in 1931. Superstr. is R.C. Deck Girder
 Substr. is R.C. Abuts and R.C. solid pier.
 Superstr. to be removed with staged construction.
 No Salvage. Traffic to be maintained.

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

SHEET NO.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.
80	109BR	WHITESIDE	10	3
8 SHEETS				



GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 An alternate strand pattern using Extra High Strength Prestressing strand (270K.S.I.) is permitted.
 Unless otherwise noted, Expansion Bolts shall consist of self drilling expansion anchors and 3/4" x 6" hooked bolts.
 Limits of Coal for Interlayer Protective Coat shall be back to back of Abutments and out to out of deck.
 Shoulder transition to Wingwall shall be shaped with broken concrete. Cost Incidental.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub Total
Bituminous Concrete Surface Course Class I	Ton	47	47
Removal of Existing Superstructure	Each	1	1
Concrete Removal	Cu. Yd.	16	16
Expansion Bolts 3/4" x 6"	Each	308	308
Class X Concrete	Cu. Yd.	146.5	146.5
Precast Prestressed Concrete Deck Beams (17 Depth)	Sq. Ft.	3060	3060
Reinforcement Bars	Pound	13150	13150
Coal for Interlayer Protective Coat	Sq. Yd.	339	339
Pavement Removal & PCC Replacement, Type II (10")	Sq. Yd.	11	11
Steel Railing Type N	Lin. Ft.	153	153
Neoprene Expansion Joint (2")	Lin. Ft.	49	49
Temporary Guardrail	Lin. Ft.	78	78
Class A Concrete	Cu. Yd.	59.3	59.3
Expansion Bolts (Special)	Each	12	12
Untreated Piles up to 30"	Lin. Ft.	1104	1104
Untreated Piles 30" to 45"	Lin. Ft.	204	204
Porous Granular Embankment	Cu. Yd.	130	130
Class A Excavation for Structure	Cu. Yd.	80	80
Class B Excavation for Structure	Cu. Yd.	460	460

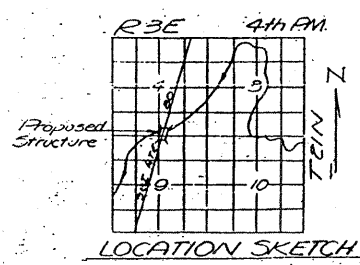
DESIGNED	Stacy L. Lin
CHECKED	[Signature]
DRAWN	[Signature]
CHECKED	[Signature]

EXAMINED	[Signature]	DATE	APR 9 2011
PASSED	[Signature]		
APPROVED	[Signature]		

DESIGN STRESSES
FIELD UNITS
 Fc = 4000 psi (Super) Fc = 5000 psi
 Ft = 1000 psi (Sub) Ft = 4000 psi
 Fc = 20000 psi (Reinf) Fc = 298000 psi
 Ft = 75 psi (RTG) Ft = 173000 psi
 n = 10
 Allowable Future WS: 25415aF7
 Design Specifications 1969
 AASHTO (as applicable)

WATERWAY INFORMATION
 Drainage Area: 535.5a. Mi.
 Character: Rolling, sandy, level
 Present Opening: 480 Sq. Ft.
 Road Opening: 480 Sq. Ft.
 Proposed Opening: 480 Sq. Ft.
 Q(100) = 3847 cfs

LOADING HS20-44



FOR REFERENCE ONLY

GENERAL PLAN & ELEVATION
 SBI 80 over CATTAIL CREEK
 SBI RTE. 80-SEC. 109BR
 WHITESIDE COUNTY
 STA. 1015+99

098-0021