

Bench Mark: Chiseled "b" on top of S.E. wingwall of S.N. 099-0070. Elev. 689.96

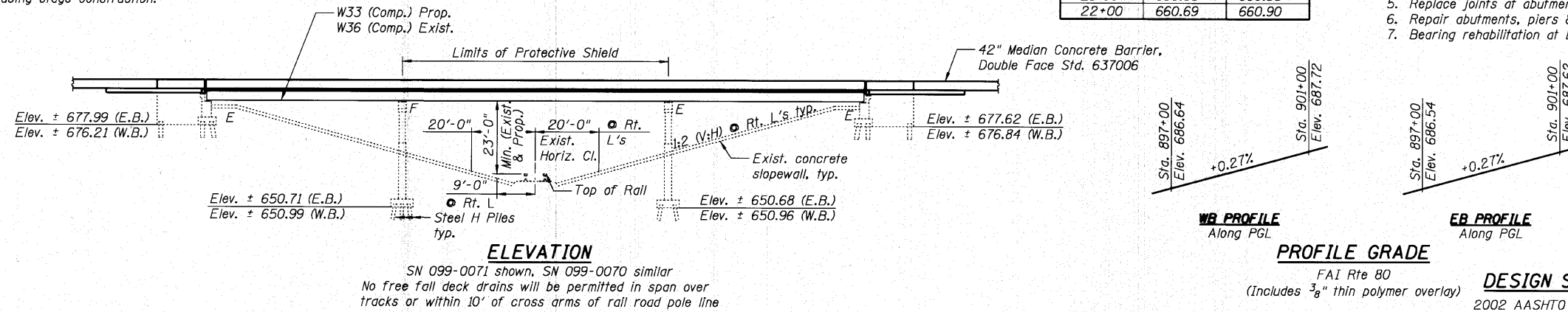
Existing Structure: Sta. 898+75.62, F.A.I. Rte. 80 Sec.99-5VB, Built in 1966, Deck and Superstructure replaced in 1997. Structure Nos. 099-0070 (Eastbound), 099-0071 (Westbound). Superstructure consists of 3-span continuous composite steel wide flange beams with R.C. deck. Both bridges are supported on two stub abutments, and two R.C. multiple column piers on piles. Existing out to out deck = 51'-2". Existing back to back abutments = 211'-4". Superstructure to be widened on existing substructure. Traffic to be maintained using stage construction.

No Salvage

TOP OF RAIL ELEVATION		
Station	East Rail	West Rail
18+00	659.46	659.70
19+00	659.68	659.92
20+00	659.97	660.21
21+00	660.33	660.55
22+00	660.69	660.90

SCOPE OF WORK

1. Strengthen pier caps to allow for widening.
2. Widen deck and superstructure on existing substructure.
3. Extend existing concrete parapets.
4. Scarify and overlay existing deck and approach slab using thin polymer overlay.
5. Replace joints at abutments.
6. Repair abutments, piers & slope walls as shown.
7. Bearing rehabilitation at East Abutment on WB Structure.



DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44 & ALT.
 Allow 25# / sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

New
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (AASHTO M270 Grade 50)
 fy = 36,000 psi (AASHTO M270 Grade 36)

Existing
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (Original Substructure Reinforcement)
 fy = 50,000 psi (AASHTO M270 Grade 50)

SEISMIC DATA

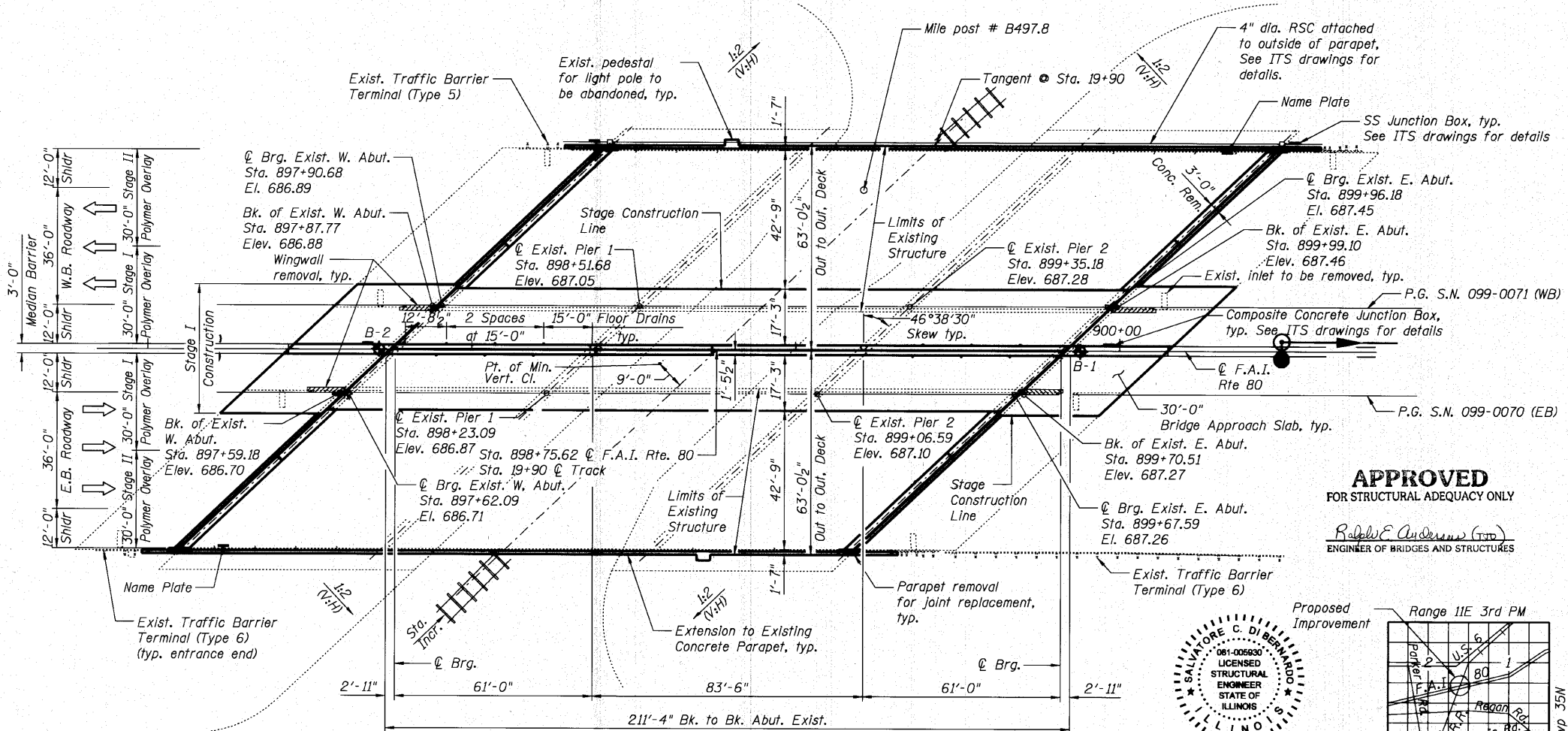
Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04g
 Site Coefficient (S) = 1.2

STATION 898+75.62 RE-BUILT 2011 BY STATE OF ILLINOIS F.A.I. RT. 80 SEC. 99(5&5-1)Y LOADING HS20 & ALT STRUCTURE NO. 099-0070	STATION 898+75.62 RE-BUILT 2011 BY STATE OF ILLINOIS F.A.I. RT. 80 SEC. 99(5&5-1)Y LOADING HS20 & ALT STRUCTURE NO. 099-0071
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NAME PLATES

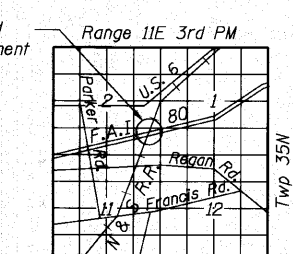
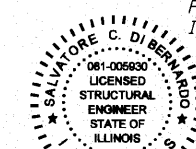
See Std. 515001
 New Name Plates shall be located next to existing Name Plates.
 Cost included with Name Plates.

GENERAL PLAN & ELEVATION
I-80 OVER NORFOLK & SOUTHERN R.R.
F.A.I. RTE. 80 - SEC 99(5&5-1)Y
WILL COUNTY
STATION 898+75.62
STRUCTURE NO. 099-0070 (E.B.)
STRUCTURE NO. 099-0071 (W.B.)



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TWP)
 ENGINEER OF BRIDGES AND STRUCTURES



LEGEND
 Existing Boring

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FILE NAME =	USER NAME = rdanley	DESIGNED - BWS	REVISED -
		CHECKED - EKM	REVISED -
		DRAWN - RD	REVISED -
		CHECKED - SCD	REVISED -
	PLOT SCALE =		
	PLOT DATE = 18/28/2010		



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99(5&5-1) Y-1	WILL	309	189
CONTRACT NO. 60M59				
ILLINOIS FED. AID PROJECT				

SHEET NO. S-1 OF S-27 SHEETS