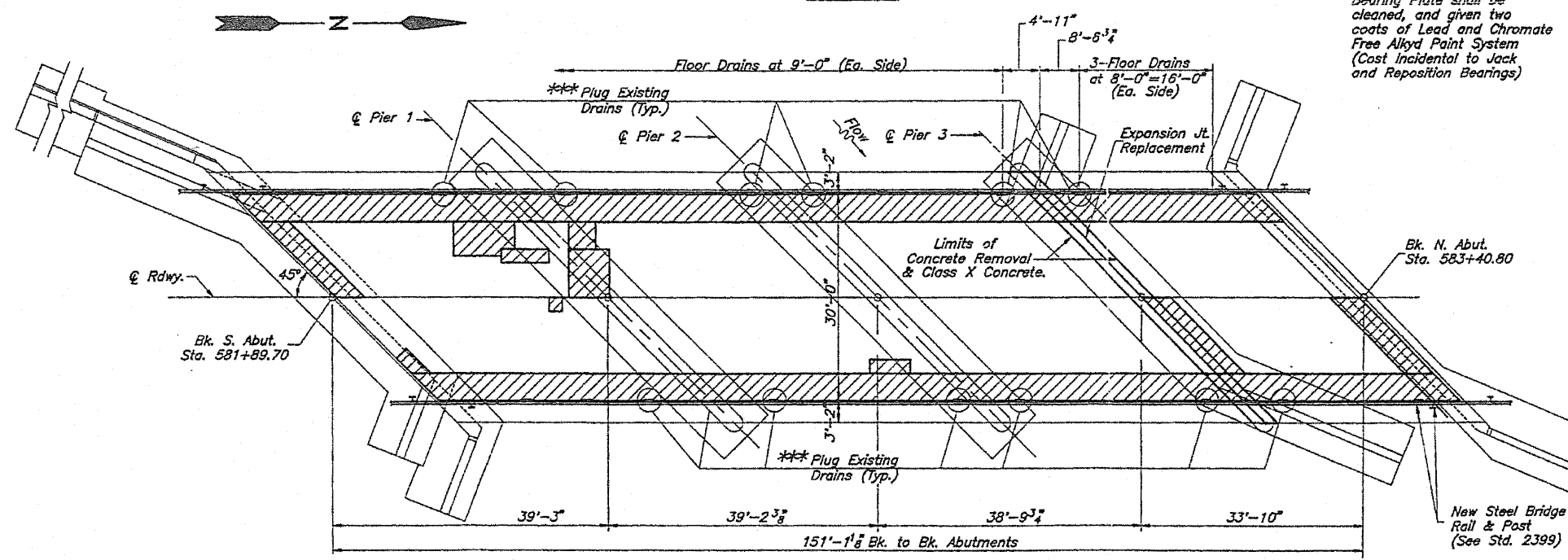
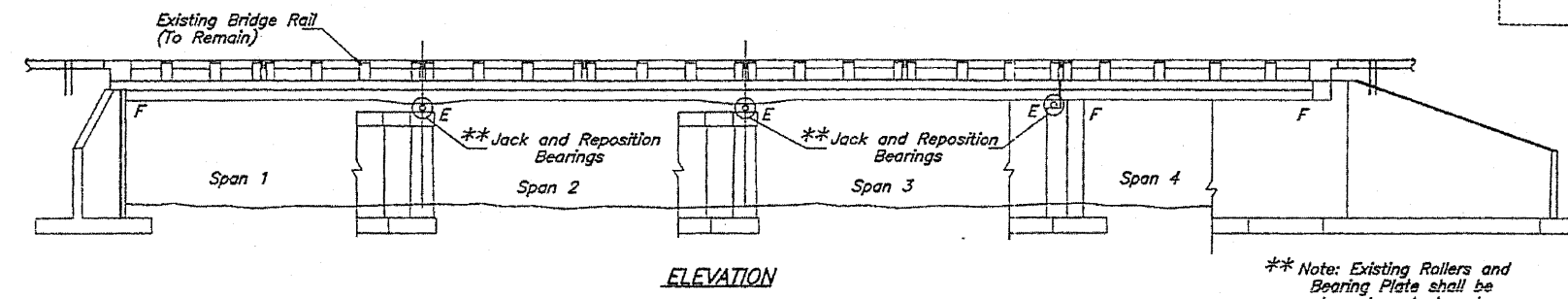
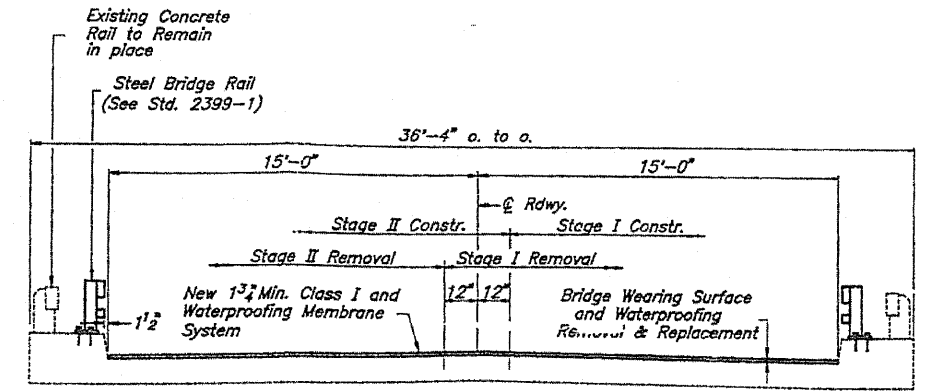
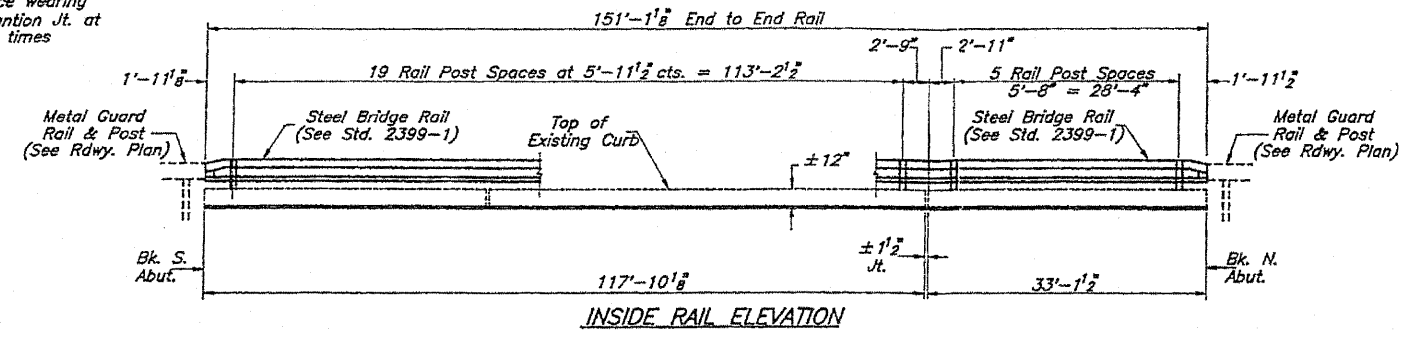


EXISTING STRUCTURE:
 Four span R.C. slab superstructure with spans of 39'-3", 39'-2 3/8", 38'-9 3/4" & 33'-10". Retrofit new curb mounted steel rail, remove and replace wearing surface. Remove and Replace existing Expansion Jt. at Pier No. 3. Traffic to be maintained at all times utilizing stage construction.
 No Salvage
 Str. No. 032-0031



HALF CROSS SECTION
 LOOKING NORTH
 Remove existing bituminous concrete surface and replace with new Class I surface & Waterproofing Membrane System.

GENERAL NOTES
 Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.
 Debonded areas shown are based upon a survey taken before plan preparation and are for bidding purposes only. Actual areas to be repaired shall be determined by the Engineer in the field at the time of construction.
 Locations of partial and full depth bridge deck repair areas shall be determined by the Engineer in the field at the time of construction. Defective concrete areas shall be removed to the width, length, and depth required to reach sound concrete as determined by the Engineer.

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
* Bituminous Concrete Surface Removal	Sq. Yd.	504
* Waterproofing Membrane System	Sq. Yd.	504
* Bit. Conc. Surf. Cse., Mix. D, Class I, Type 2	Ton	42.3
* Steel Bridge Rail	Lin. Ft.	303
* Class X Concrete Superstructure	Cu. Yd.	2.9
* Concrete Removal	Cu. Yd.	2.9
* Neoprene Expansion Jt. (2")	Lin. Ft.	52
* Reinforcement Bars (E ₆₀ (cont'd))	Lbs.	480
* Deck Slab Repair (Partial)	Sq. Yd.	154
* Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5
* Jack and Reposition Bearings	Each	24

* See Special Provisions

JAMES O. HAMILTON
 081-00888
 LICENSED
 STRUCTURAL
 ENGINEER
 OF
 JACKSONVILLE
 ILLINOIS
 James O. Hamilton
 4/18/94
 License Expires 11/30/94

WATERWAY INFORMATION

Drainage Area 46.9 Sq. Mi. Low Grade Elev. 585.86 @ Sta. 584+00

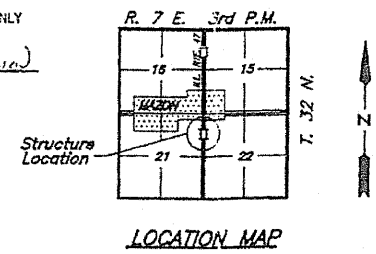
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head Ft.		Headwater	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	3399	809	809	582.31	0.7	0.7	582.96	582.96
Base	100	3828	829	829	582.51	0.8	0.8	583.26	583.26
Overtopping									
Max. Calc.	500	4819	866	866	582.89	1.0	1.0	583.87	583.87

PLAN
 *** The existing drains at locations shown shall be cleaned and filled with Class X Concrete. Cost incidental to Deck Slab Repair (Full Depth, Type I)

LEGEND
 ▨ Debonded Area (From Deck Survey December, 1990)

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 Ralph E. Anderson
 Engineer of Bridges and Structures

DESIGN STRESSES
 f_c = 3,500 p.s.i.
 f_c = 60,000 p.s.i. (Reinf.)



BRIDGE DETAILS
 F.A.P. RTE. 100 (ILL. RTE. 47)
 OVER JOHNNY RUN CREEK
 GRUNDY COUNTY
 SECTION 119B-1
 STRUCTURE NO. 032-0031