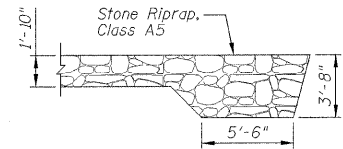
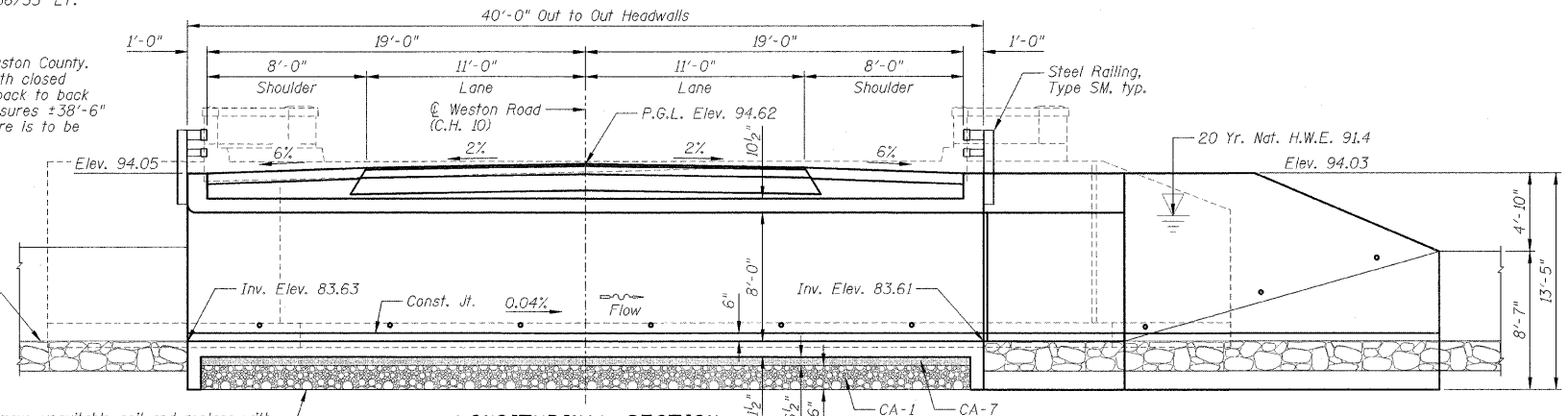


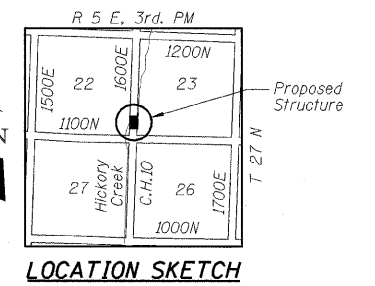
Benchmarks: #641, set CPS East side of power pole, 1st North of bridge, +60' North, West side of C.H. 10, Elevation = 93.78/Sta. 115+56/35' LT.  
 #645, set CPS West side of power pole, 4th North of bridge, West side of C.H. 10, Elevation = 92.20/Sta. 121+45/30' LT.

Existing Structure: SN 053-3441 was originally constructed in 1938 by Livingston County. The structure consists of a single span concrete slab with closed concrete abutments supported by spread footings. The back to back abutment dimension measures +22'-6" and the width measures +38'-6" (dimensions are @ right angles to roadway). The structure is to be replaced using road closure.

No Salvage.



Remove unsuitable soil and replace with Porous Granular Embankment, Special. Limits shall extend to 2'-0" outside of the culvert barrel walls



**WATERWAY INFORMATION**

Drainage Area = 9.0 Sq. Mi.		Low Grade Elev. 94.26 ft. @ Sta. 114+00.00							
Flood Yr.	Freq. C.F.S.	Opening Sq. Ft. Exist.	Nat. Head - Ft. Exist.	Prop. Head - Ft. Prop.	Headwater El. Prop.				
Design	20	1029	110	192	91.4	2.6	0.2	94.0	91.6
Base	100	1540	110	192	92.6	4.6	1.0	97.2	93.6
Overtopping									
Max. Calc.									

STATION 115+00.00  
 BUILT 20\_\_ BY  
 LIVINGSTON COUNTY  
 F.A.S. RTE. 349  
 SECTION 09-00120-03-BR  
 LOADING HS25  
 STR. NO. 053-5015

**NAME PLATE**  
 See Standard 515001

**DESIGN SPECIFICATIONS**

AASHTO 2002 Standard Specifications for Highway Bridges

**DESIGN STRESSES**

Cast-in-Place Concrete (Field Units)  
 f'c = 4,000 psi @ 14 days  
 fy = 60,000 psi (Reinforcement)

**LOADING HS25**

Allow 50#/sq. ft. for future wearing surface.

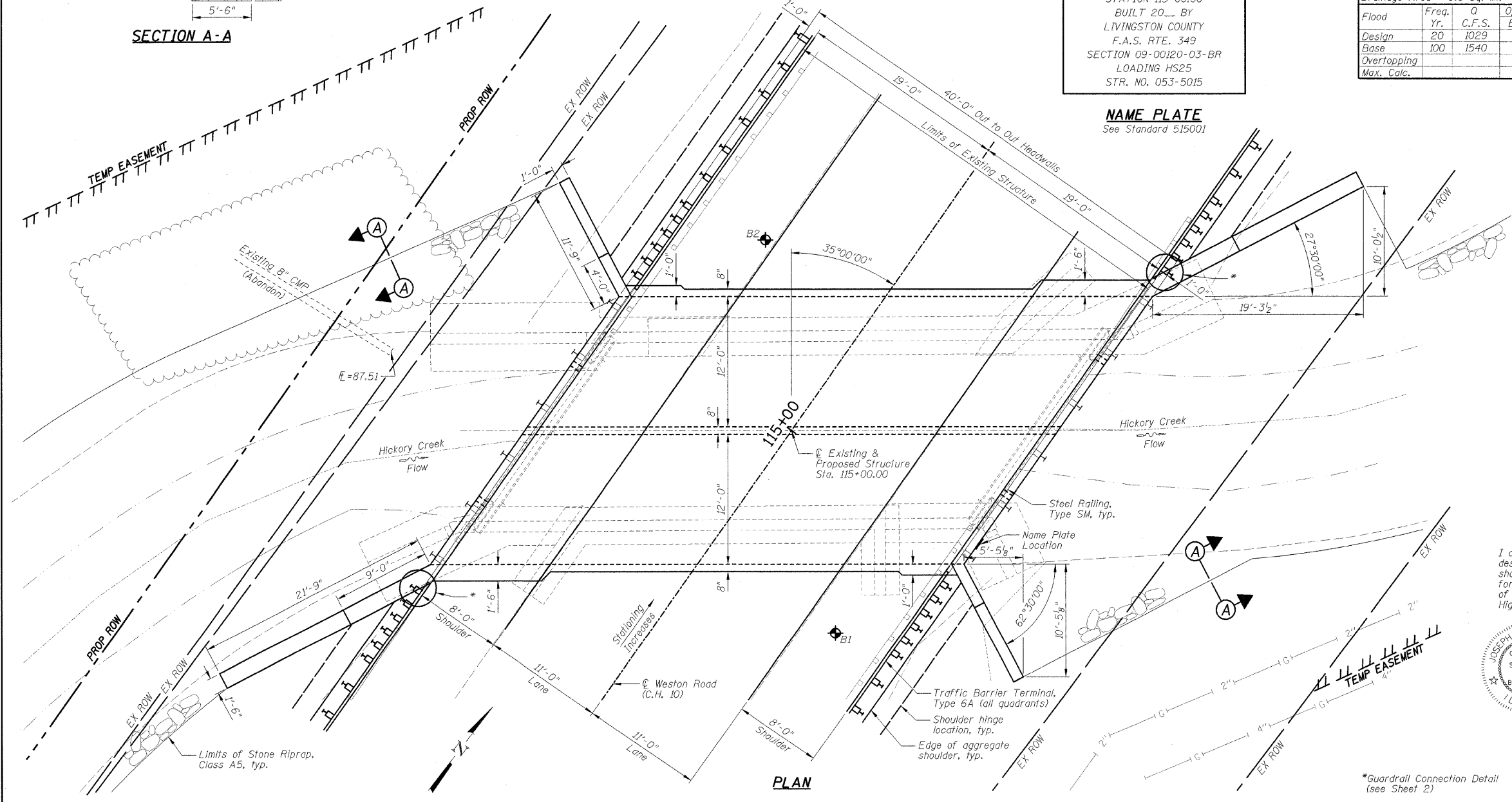
**INDEX TO SHEETS**

SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	GENERAL DATA
B3	BOTTOM & TOP SLAB REINFORCEMENT PLANS
B4	CULVERT WALL ELEVATIONS
B5	WINGWALL DETAILS
B6	STEEL RAILING, TYPE SM
B7-B8	SOIL BORING LOGS

I certify that to the best of my knowledge, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges'.



Joseph M. Lowrance  
 JOSEPH M. LOWRANCE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-006446  
 Exp. Date 11/30/10



DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 10/21/09	REVISED -

LIVINGSTON COUNTY DEPARTMENT OF HIGHWAYS

GENERAL PLAN AND ELEVATION  
 SCALE: SHEET NO. B1 OF 8 SHEETS STA. TO STA.

WESTON ROAD (C.H. 10) OVER HICKORY CREEK  
 SECTION 09-00120-03-BR  
 LIVINGSTON COUNTY  
 STATION 115+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS NO.
349	09-00120-03-BR	LIVINGSTON	34 23
S.N. 053-5015		CONTRACT NO. 87412	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		