

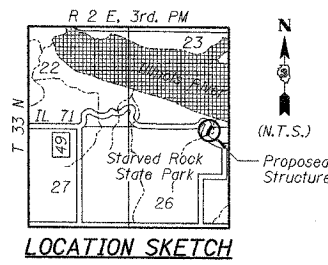
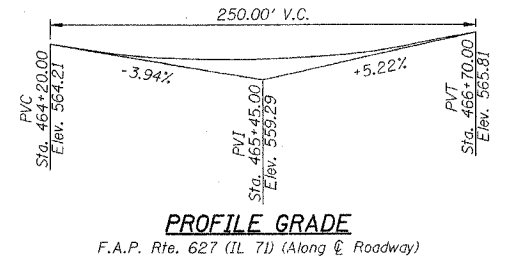
Benchmarks: 1.) Chiseled "□" at S.E. corner of structure on top of safety barrier  
 Sta. 465+71.92/13.81' LT Elevation = 563.63.  
 2.) Top of guardrail post on the West side of IL Rte. 71 @ back center of the 10th post North from the South end of the rail @ Station 467+60.33/14.84' RT., Elevation = 572.99.

Existing Structure: Existing Retaining Wall, built 1922, under Section I-1 from Station 462+22.38 to Station 464+47.19 of F.A.P. 627 (IL 71). Consisting of a concrete gravity retaining wall section approximately +400' long that varies in height. This retaining wall was constructed between the roadway and the public trail in the State Park. Traffic will be maintained during construction via detour routes. The existing retaining wall is to remain.

**DESIGN SPECIFICATIONS HORIZONTAL CURVE DATA**

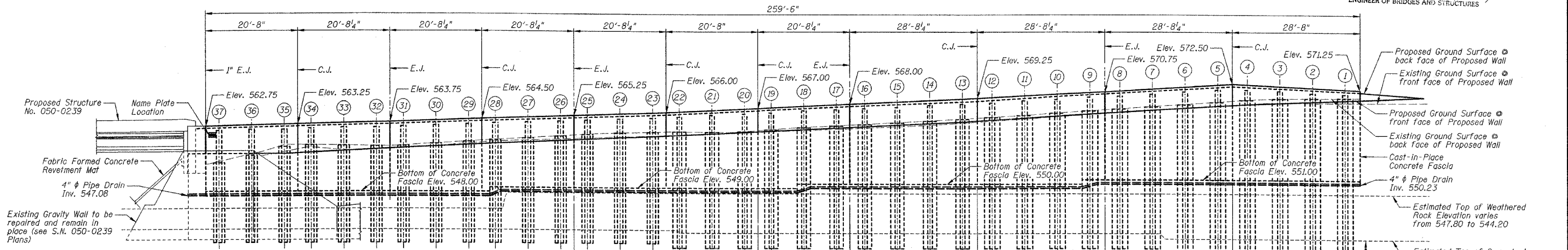
AASHTO 2002  
**DESIGN STRESSES**  
 FIELD UNITS  
 f'c = 3,500 psi (Cast-In-Place Concrete)  
 fy = 60,000 psi (Reinforcement)  
 fy = 36,000 psi (Soldier Pile Steel)

P.I. STA. = 464+75.79  
 Δ = 45°36'  
 D = 16°55'20"  
 R = 338.61'  
 T = 142.34'  
 L = 269.49'  
 E = 28.7'  
 S.E. = 0.04'/ft.  
 P.C. STA. = 463+33.45  
 P.T. STA. = 466+02.94



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

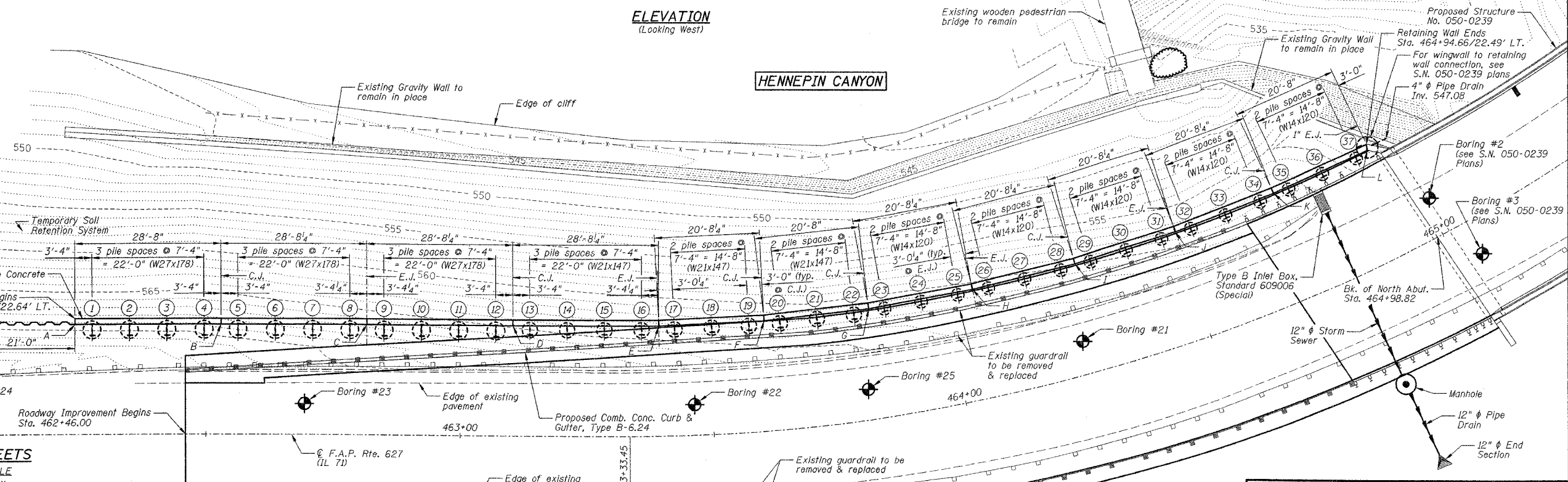
**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY  
 Ralph E. Underwood (SE)  
 ENGINEER OF BRIDGES AND STRUCTURES



**WALL INFORMATION CHART**

Reference Points	Station to Back Face of Wall	Offset to Back Face of Wall
A	462+24.35	21.52' LT.
B	462+53.02	21.54' LT.
C	462+81.70	21.56' LT.
D	463+10.39	21.58' LT.
E	463+39.49	21.55' LT.
F	463+61.66	21.55' LT.
G	463+83.81	21.55' LT.
H	464+05.99	21.54' LT.
I	464+28.16	21.54' LT.
J	464+50.34	21.54' LT.
K	464+72.51	21.53' LT.
L	464+94.23	21.38' LT.

**ELEVATION (Looking West)**



**INDEX TO SHEETS**

SHEET NO.	TITLE
G1	GENERAL PLAN AND ELEVATION
G2	GENERAL NOTES, BILL OF MATERIALS, SECTIONS AND DETAILS
G3	CONTOUR LAYOUT PLAN AND ELEVATION
G4-G5	WALL REINFORCEMENT AND SOLDIER PILE INFORMATION
G6	RUSTICATION FINISH DETAILS
G7	PIPE UNDERDRAIN ELEVATION AND DETAIL
G8-G10	SOIL BORING LOGS
G11-G12	EXISTING PLANS

**LEGEND**

- Existing Contour Line (1'-0" increments)
- Existing Contour Line (5'-0" increments)
- Location of Threatened Plant not to be disturbed (Forked Aster)

**NOTES:**

- E.J. denotes 1/2" Expansion Joint (unless otherwise noted).
- C.J. denotes Construction Joint.
- Cast-In-Place Concrete Fascia is to have a form liner surface.

**PLAN**



Mark S. Wylie Date 5/15/06  
 MARK S. WYLIE  
 ILLINOIS STRUCTURAL ENGINEER  
 NO. 081-00002  
 Exp. Date 11/30/06

**GENERAL PLAN AND ELEVATION**  
 IL ROUTE 71  
 SOLDIER PILE RETAINING WALL  
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I  
 LA SALLE COUNTY  
 STATION 462+24.35 TO STATION 464+94.66  
 PROPOSED STRUCTURE NO. 050-W004

DESIGNED BY: J.M.L.  
 DRAWN BY: D.J.M.  
 CHECKED BY: M.S.W.

**Farnsworth GROUP**  
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FILE NO. 24-6772  
 DATE 05-12-06  
 SHEET NO. 49 of 106