Benchmarks: 1.) Chiseled "□" at S.E. corner of structure on top of safety barrier @ Sta. 465+71.92/13.61' LT Elevation = 563.63.

2.) Top of guardrail post on the West side of IL Rte. 71 @ back center of the 10th post form from the South end of the rail @ Station 467+60.33/14.64' RT., Elevation = 572.99.

Existing Structures: Existing Retaining Wall, built 1922, under Section (-) 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 1400' 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

AASHTO 2002

DESIGN STRESSES

FIELD UNITS

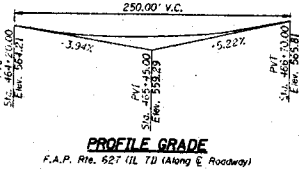
f'c = 3,500 psi (Cast-In-Place Concrete)
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (Soldier Pile Steel)

HIGHWAY CLASSIFICATION

F.A.P. Route 627 - IL Rte. 71
Class: Minor Arterial (Rural)
A.D.T.: 1500 (2005) 1740 (2015)
D.H.V.: 150 (2005) 174 (2015)
Design Speed: 35 M.P.H.
Posted Speed: 25 M.P.H.

HORIZONTAL CURVE DATA

P.I. STA. = 464+75.79
Δ = 45°36'
D = 16°58'20"
R = 338.61'
T = 142.34'
L = 269.49'
E = 29.7'
S.E. = 0.04'/ft.
P.C. STA. = 463+33.45
P.T. STA. = 466+02.94

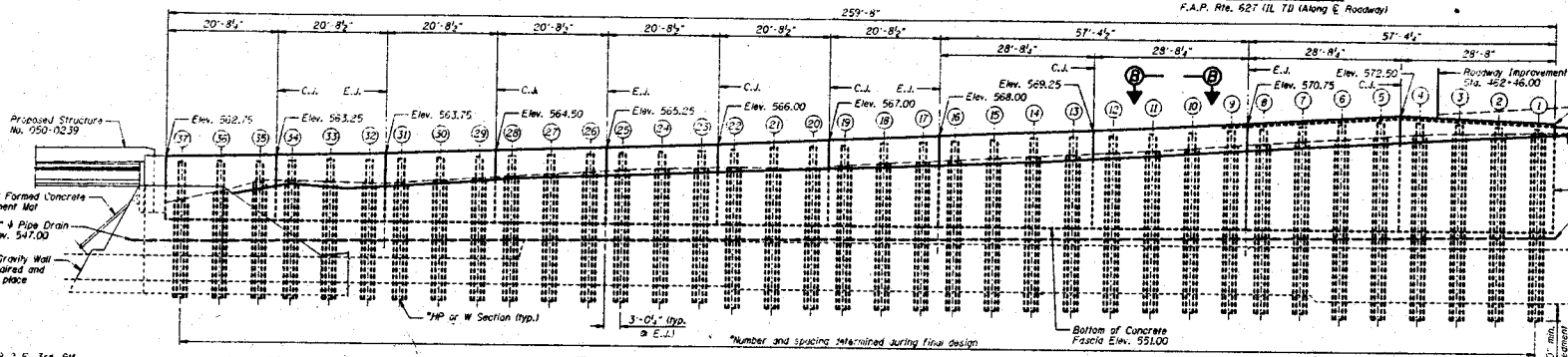


PROFILE GRADE

F.A.P. Rte. 627 (IL 71) (Along ℄ Roadway)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	2	1
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1 OF 2 SHEETS



ELEVATION

Looking West

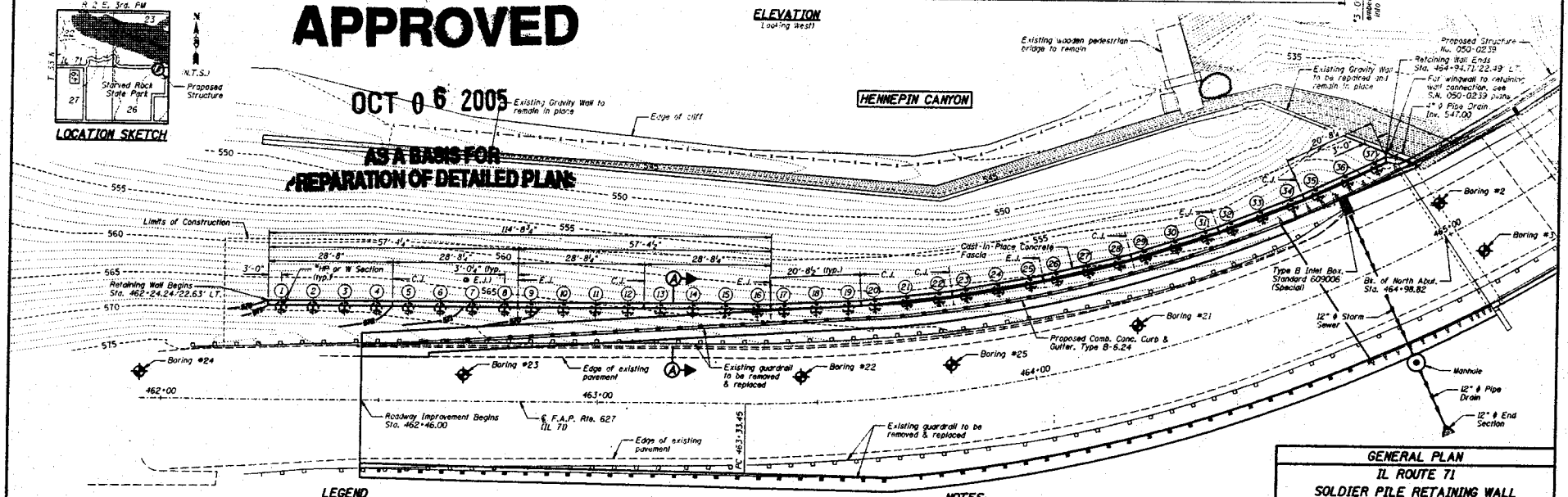
LOCATION SKETCH

APPROVED

OCT 06 2005

AS A BASIS FOR PREPARATION OF DETAILED PLANS

HENNEPIN CANYON



PLAN

LEGEND

- Existing Contour Line (1'-0" increments)
- Existing Contour Line (5'-0" increments)
- Proposed Contour Line
- Location of Threatened Plant (Forked Aster)

NOTES:

1.) For Sections A-A and B-B see Sheet 2.
2.) E.J. denotes ½" Expansion Joint. C.J. denotes Construction Joint.
3.) Elevations and dimensions are subject to refinement in the Design Stage.
4.) *Cast-in-Place Concrete Fascia, pile size & spacing, shaft diameter and pile embedment depth will be determined in the Design Stage.
5.) Cast-in-Place Concrete Fascia is to have a form liner surface.

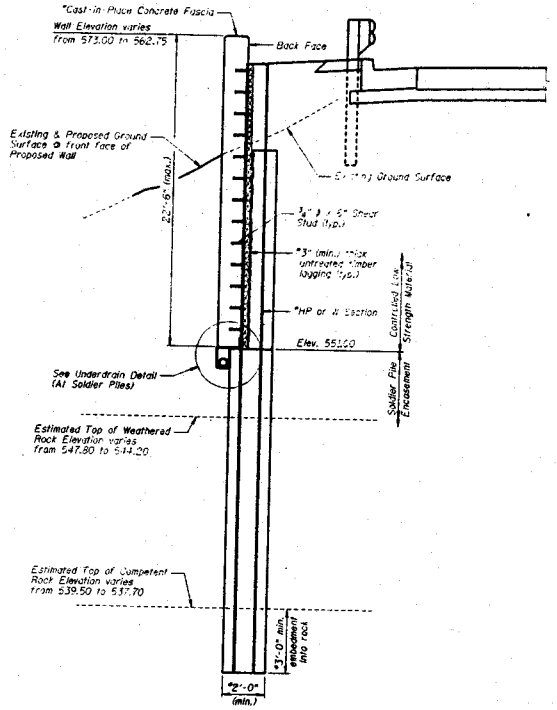
DESIGNED BY J.M.L.	FILE NO. 24-6772
DRAWN BY D.J.M.	DATE 09-27-05
CHECKED BY M.S.W.	SHEET NO. 1 of 2

GENERAL PLAN

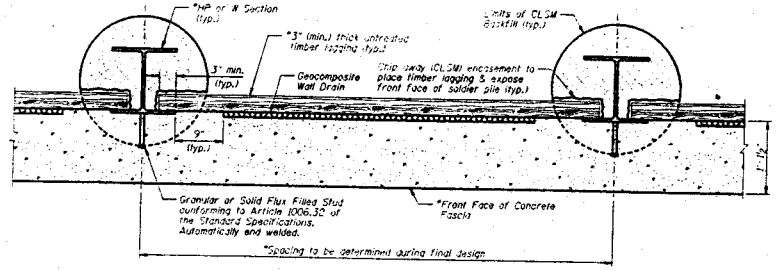
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (1-1) BR & I
LA SALLE COUNTY
STATION 462+24.24 TO STATION 464+94.71
STRUCTURE NO. 050-W004

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	2	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

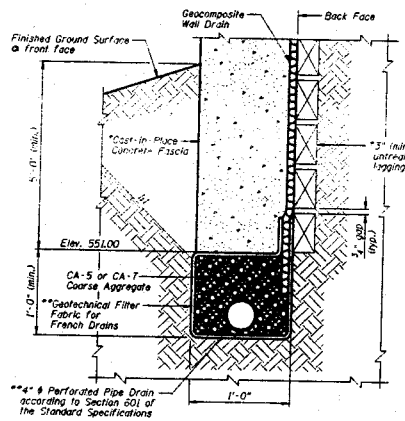
SHEET NO. 2
OF 2 SHEETS



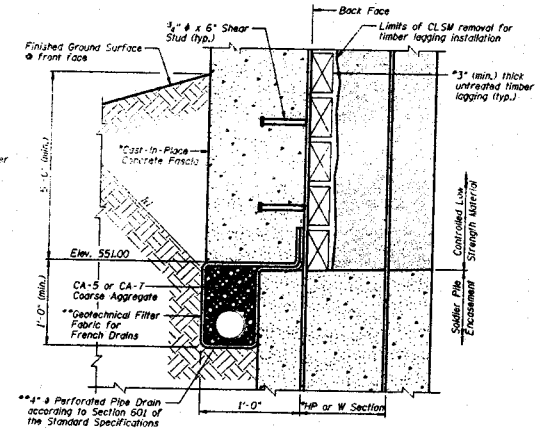
SECTION A-A



SECTION B-B



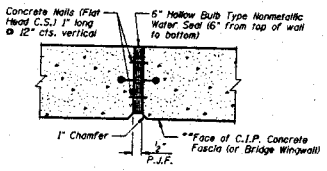
BETWEEN SOLDIER PILES



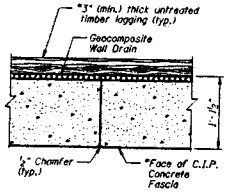
AT SOLDIER PILES

UNDERDRAIN DETAIL

**Cost included with "French Drains".



EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL

NOTES:

1.) Elevations and dimensions are subject to refinement in the Design Stage.
2.) *Cast-In-Place Concrete Fascia, timber lagging, pile size & spacing, shaft diameter and pile embedment depth will be determined in the Design Stage.
3.) Cast-In-Place Concrete Fascia is to have a form liner surface.
4.) For location of Sections A-A and Section B-B see Sheet 1.

DESIGNED BY J.M.L.	F.A.P. NO. 24-6772
DRAWN BY D.J.M.	DATE 09-27-05
CHECKED BY M.S.W.	SHEET NO. 2 OF 2

SECTIONS AND DETAILS
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.24 TO STATION 464+94.71
STRUCTURE NO. 050-W004