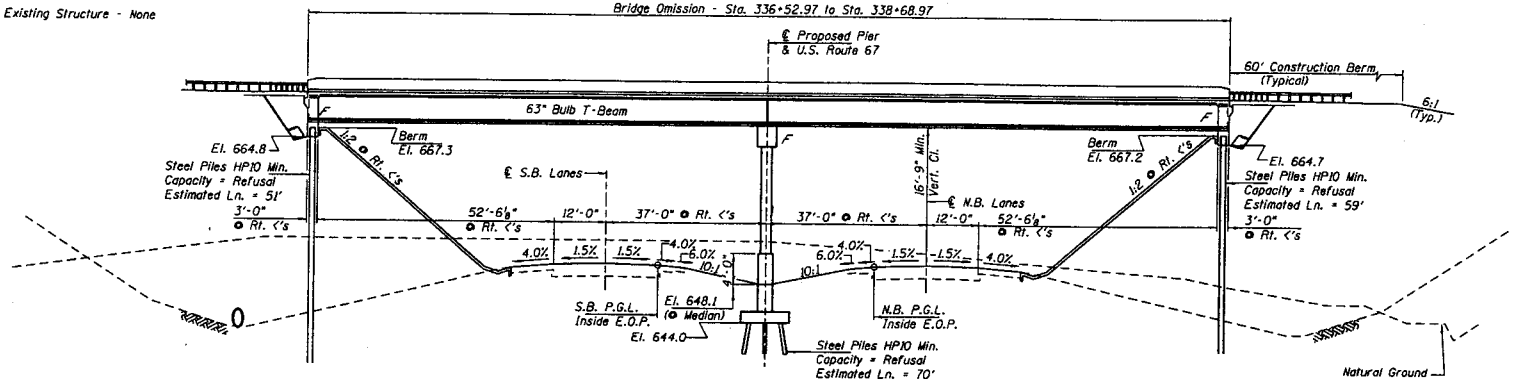
B.M. #822 - Chisled square on headwall in the S.W. quadrant of U.S.24 / T.R.950 N (Ross Road) Intersection Station 339+33
Elevation 648.89
Existing Structure - None

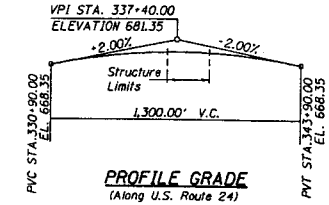
U.S. Rte. 67	*	SCHUYLER		

SHEET NO. 81
SHEETS 82

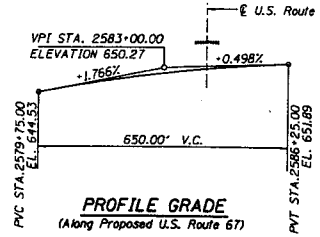
* 85-4HB



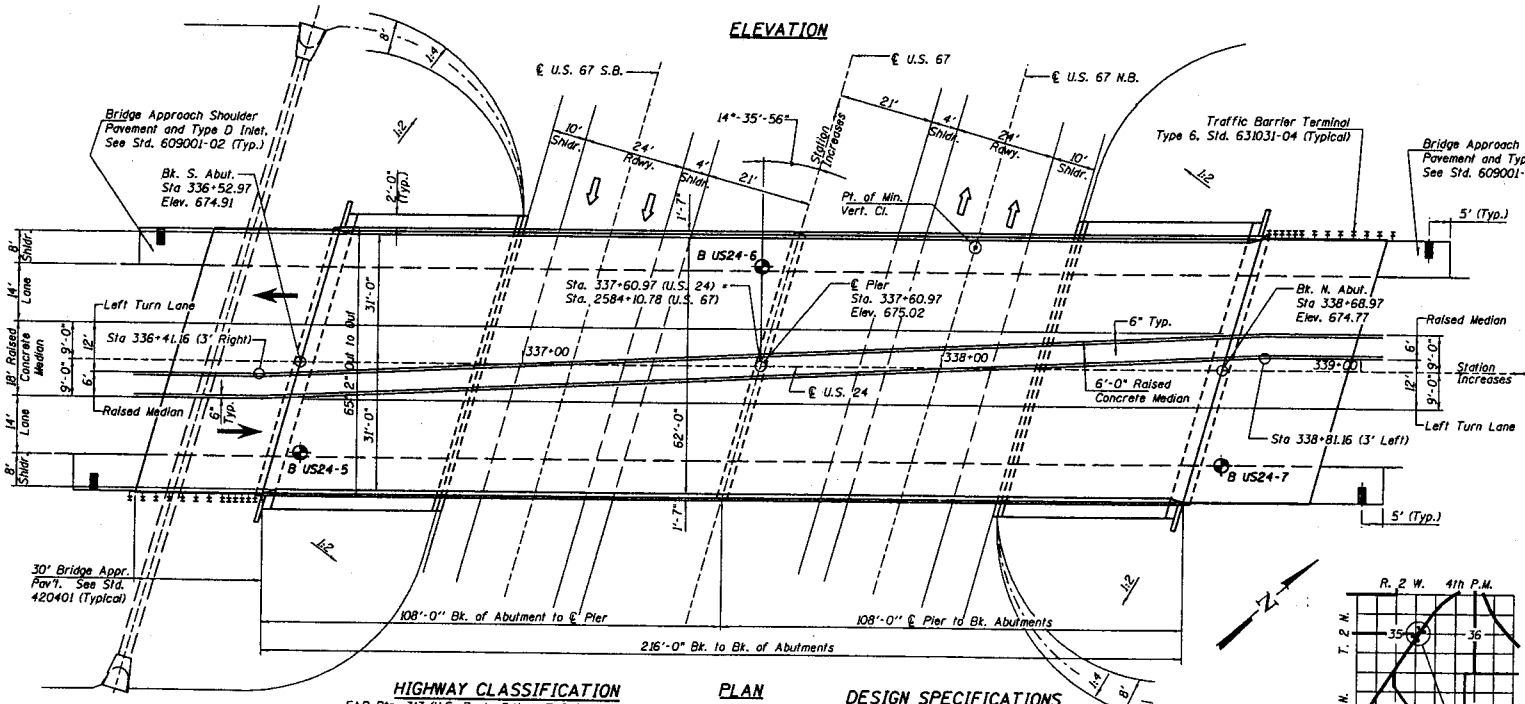
ELEVATION



PROFILE GRADE
(Along U.S. Route 24)



PROFILE GRADE
(Along Proposed U.S. Route 67)



PLAN

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinf.)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2"ϕ low lax strands)
f'si = 201,960 psi (1/2"ϕ low lax strands)

APPROVED

MAR 3 1 2005

AS A BASIS FOR PREPARATION OF DETAILED PLANS

Corporate License Number 184-001-084

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.03g
Site Coefficient (S) = 1.0

HIGHWAY CLASSIFICATION

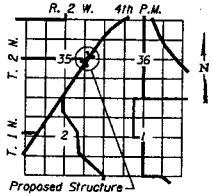
FAP Rte. 317 (U.S. Route 24)	FAP Rte. 310 (U.S. Route 67)
Class: Other Principal Arterial	Class: Expressway
ADT: 5000 (1995) 6800 (2030)	ADT: 3050 (1995) 6800 (2030)
DHV: 740 (2030)	DHV: 750 (2030)
Design Speed: 55 MPH	Design Speed: 75 MPH
Posted Speed: 45 MPH	Posted Speed: 65 MPH

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Specifications

LOADING HS20-44

Allow 50 p.s.f. for future wearing surface.



LOCATION SKETCH

T.S. & L. (Sheet 1 of 2)
U.S. Rte. 24 over U.S. Rte. 67 Proposed
FAP ROUTE 317 SECTION 85-4HB
SCHUYLER COUNTY
STATION 337+60.97
STRUCTURE NUMBER 085-0511

03S2101

03/24/05

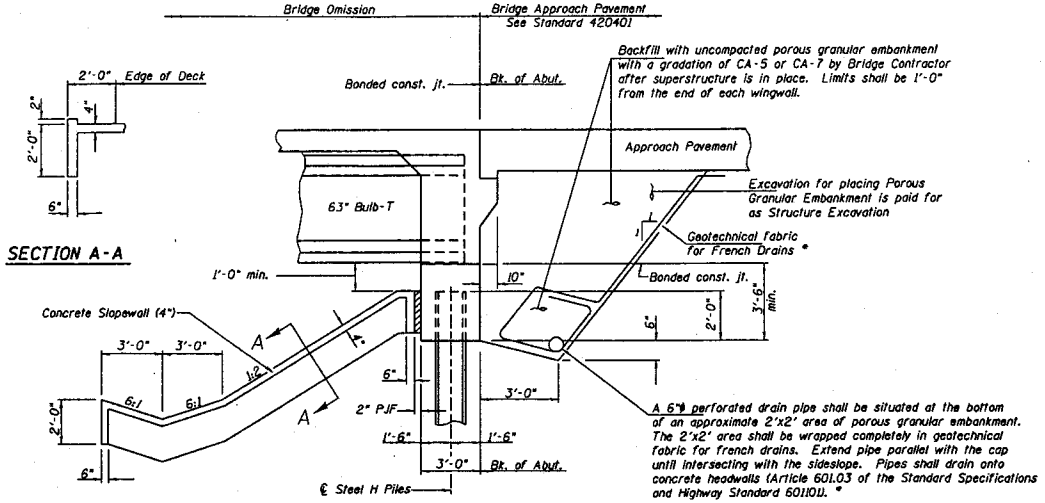
DRAWN	RAH	01/04/05
REVIEWED	TEH	01/04/05

H:\SUBPROJ\03\200\Structure\US24 over USR\TS1_104.dgn
03/24/2005

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. Rte. 67	*	SCHUYLER		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT -	

* 85-4HB

SHEET NO. 82
SHEETS 82

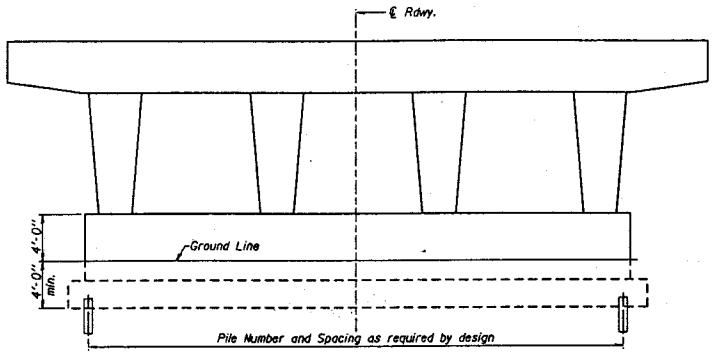


SECTION A-A

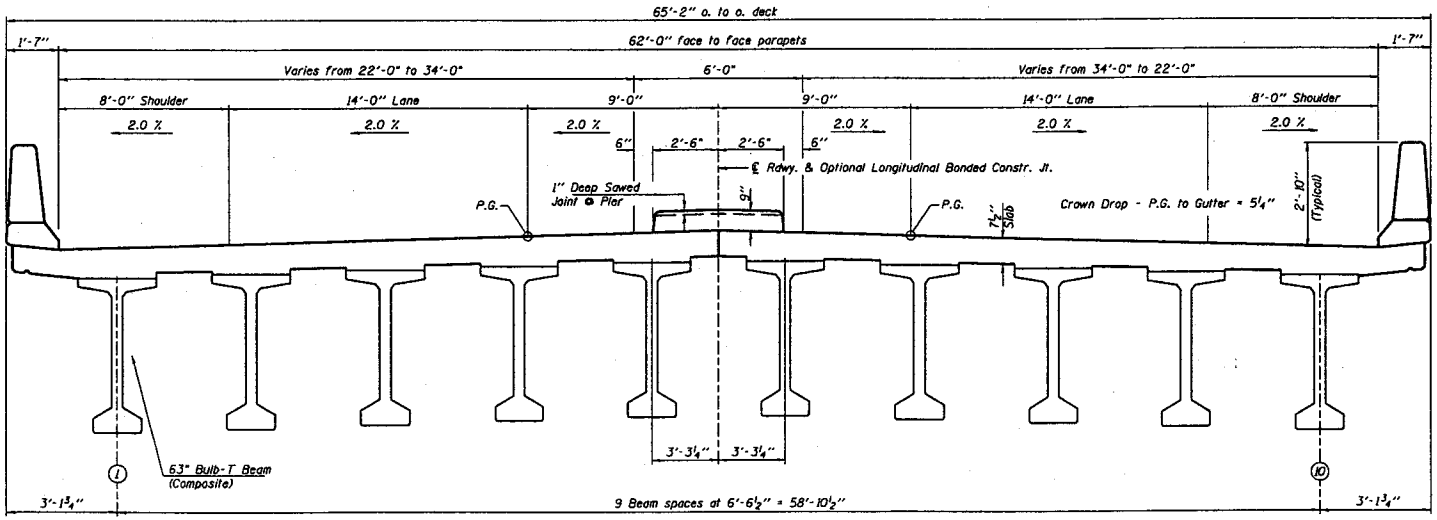
SECTION THRU INTEGRAL ABUTMENT AND SLOPEWALL

(Dimensions @ Rt. <'s to Bk. of Abutment)

* Included in the cost of Porous Granular Embankment.



PIER SKETCH



MEAR PIER

CROSS SECTION

MEAR MIDSPAN

Corporate License Number 184-001-084

T.S. & L. (Sheet 2 of 2)
U.S. Rte. 24 over U.S. Rte. 67 Proposed
FAP ROUTE 317 SECTION 85-4HB
SCHUYLER COUNTY
STATION 337+60.97
STRUCTURE NUMBER 085-0511

0352101

03/24/05

DRAWN	RAH	01/04/05
REVIEWED	TSL	01/04/05

N:\3085\03\800\Structure\U524 over U67\FVSL 004.dgn
03/24/2005