APPROVED

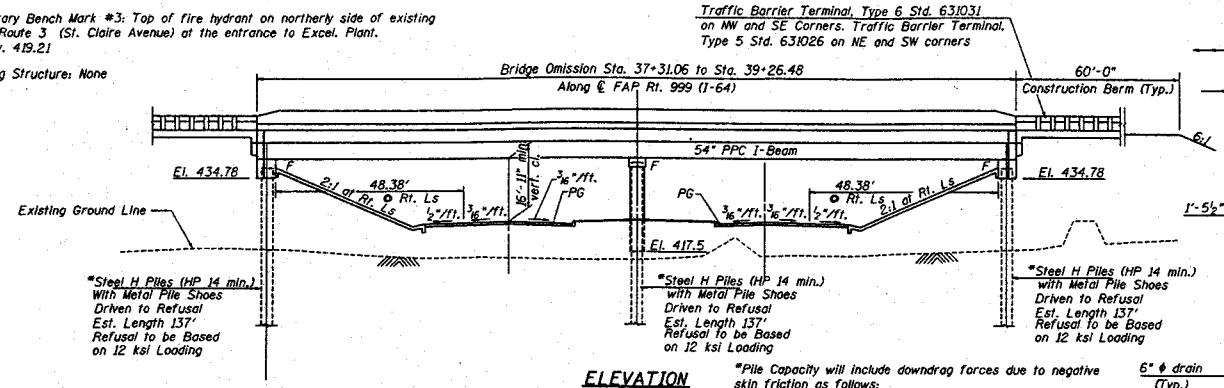
Conditionally Approved

JUL 23 2002

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

Temporary Bench Mark #3: Top of fire hydrant on northerly side of existing IL Route 3 (St. Claire Avenue) at the entrance to Excel. Plant. Elev. 419.21

Existing Structure: None

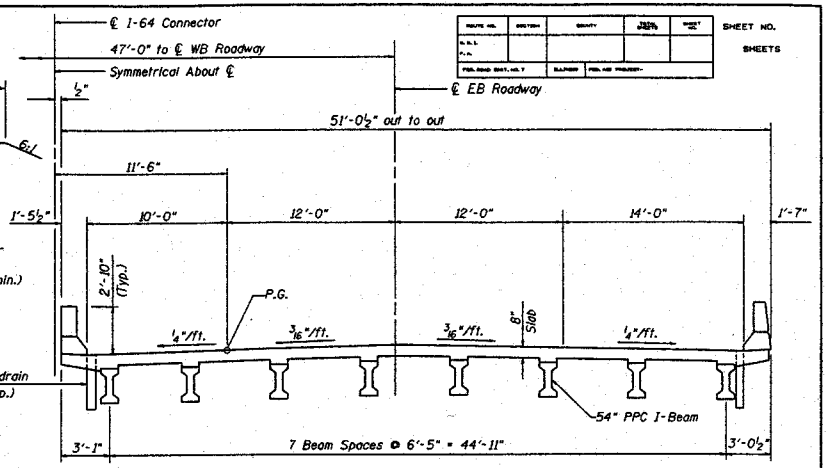


ELEVATION

*Pile Capacity will include downdrag forces due to negative skin friction as follows:

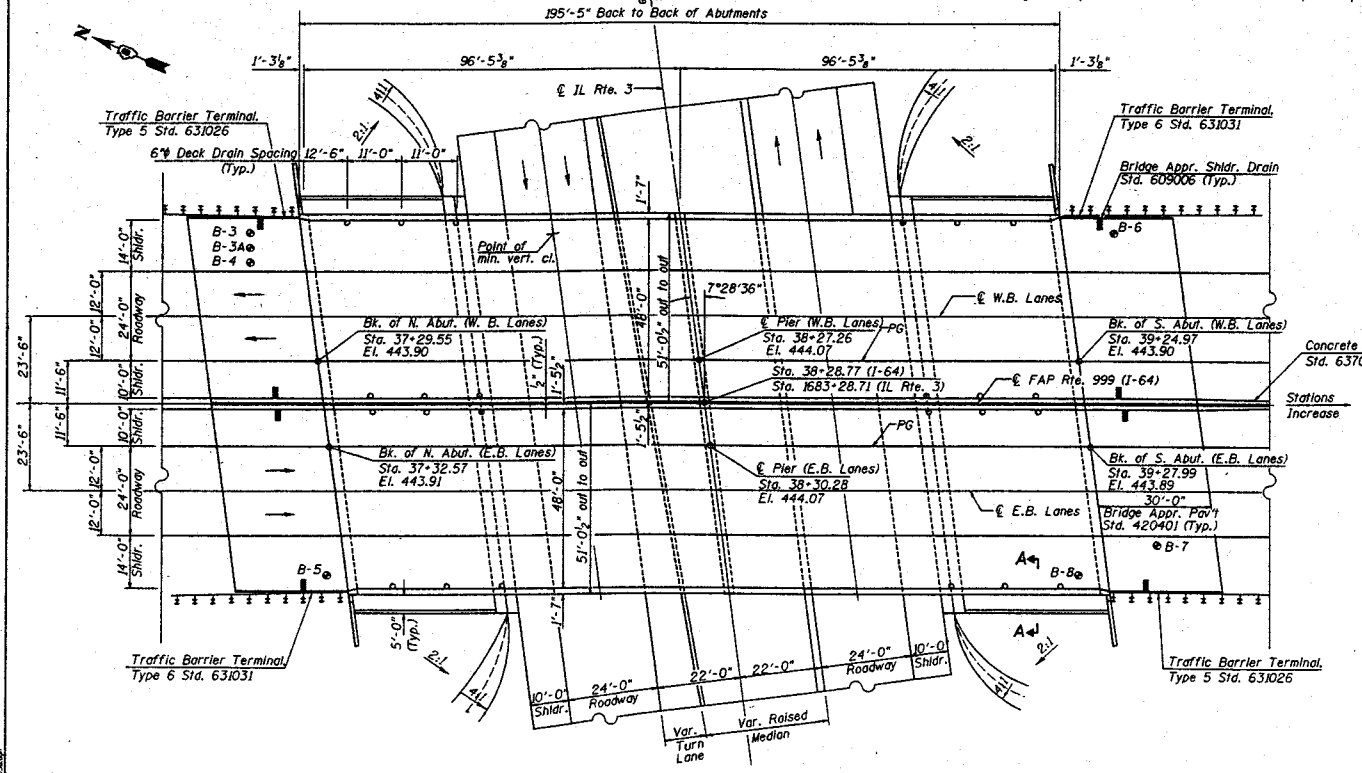
	N. Abut.	Pier	S. Abut.
SN 082-0365	105 T	88 T	112 T
SN 082-0366	98 T	79 T	101 T

Note: NSF calculated using HP 14 piles.

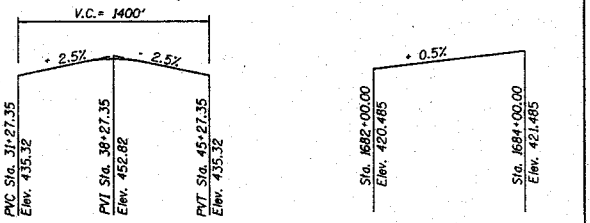


CROSS SECTION

(Looking South)



PLAN



PROFILE GRADE I-64 CONNECTOR

Median Edge of Roadway

IL. RTE. 3

Median Edge of Roadway

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999 & 2000 Interims

LOADING HS20-44 & ALT.

Allow 50 psf for future wearing surface.

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)

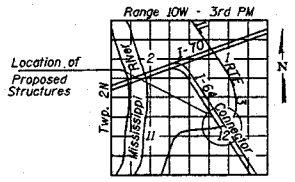
HIGHWAY CLASSIFICATION

IL Rte. 3
Functional Class: Urban Major
ADT: 16,500 (2024)
DHV: 1415 (2024)
Design Speed: 50 m.p.h.

FAP Rte. 999 - I-64/Connector
Functional Class: Trunk
ADT: 45,640 (2020)
DHV: 5152 (2020)
Design Speed: 60 m.p.h.

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.12g
Site Coefficient (S) = 1.5

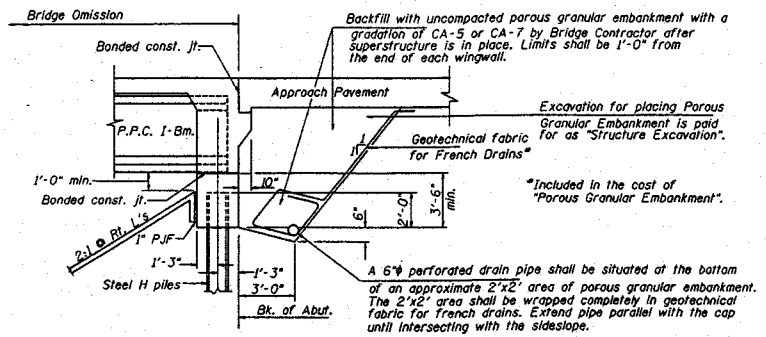


LOCATION SKETCH

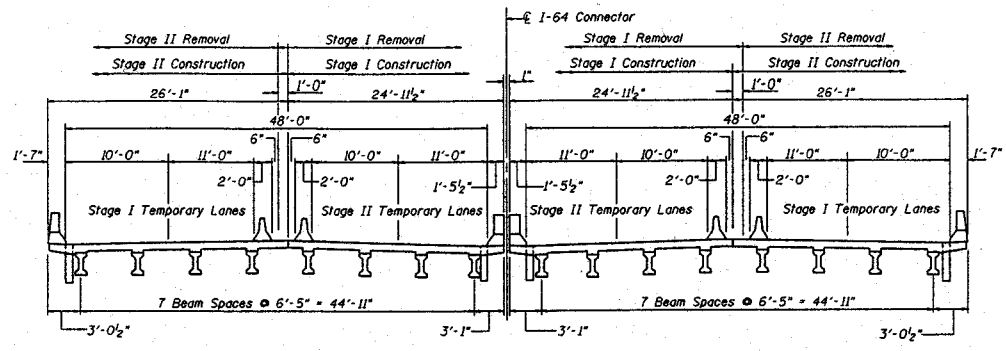
SHEET TITLE	GENERAL PLAN
PROJECT	I-64 CONNECTOR OVER IL RTE 3 FAP ROUTE 999 - SECTION 81-1HB ST. CLAIR COUNTY STATION 38+28.77 S.N. 082-0365 (WB) & S.N. 082-0366 (EB)
PROJECT NO.	01039
SCALE	
DATE	
DRAWN BY	TFG
CHECKED BY	CE/MCB
DRAWING NO.	1 OF 2 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P.				
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

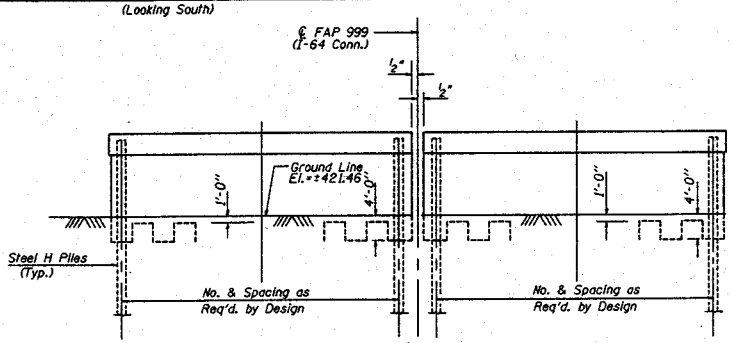
SHEET NO. #
SHEETS



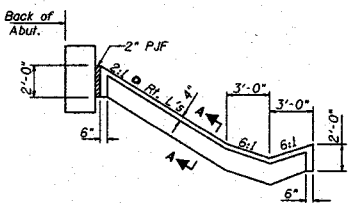
SECTION THRU INTEGRAL ABUTMENT



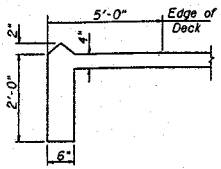
CROSS SECTION SHOWING FUTURE STAGING
(Looking South)



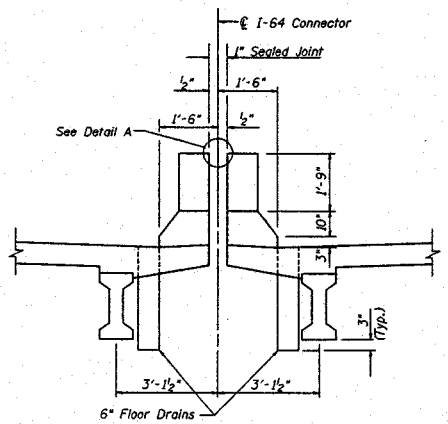
PIER SKETCH



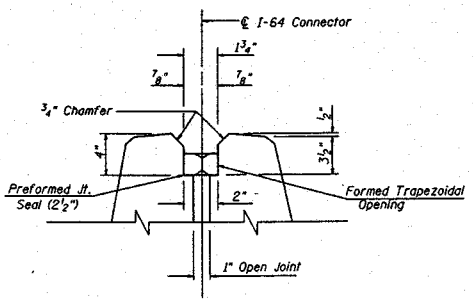
SECTION THRU SLOPEWALL



SECTION A-A



MEDIAN PARAPET DETAIL



DETAIL A

APPROVED

JUL 23 2002

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

SHEET TITLE	
GENERAL PLAN	
PROJECT I-64 CONNECTOR OVER IL RTE 3 FAP ROUTE 999 - SECTION 81-1H8 ST. CLAIR COUNTY STATION 38+28.77 S.N. 082-0365 (WB) & S.N. 082-0366 (EB)	PROJECT NO. 01039 SCALE DATE DRAWN BY TFG CHECKED BY CE/MCB DRAWING NO. 2 OF 2 SHTS