BM110 - Chiseled Square on Northeast Wingwall of Rte 267 Bridge over Plasa Creek. 59 ft. Rt. Sta. 319+53.00 Elev. 475.07

Existing Structure SN 042-0002 was built in 1938 and widened in 1971 under Section 259-BR. In 1988 a new concrete wearing surface was added and west parapet and handrail were re-constructed.

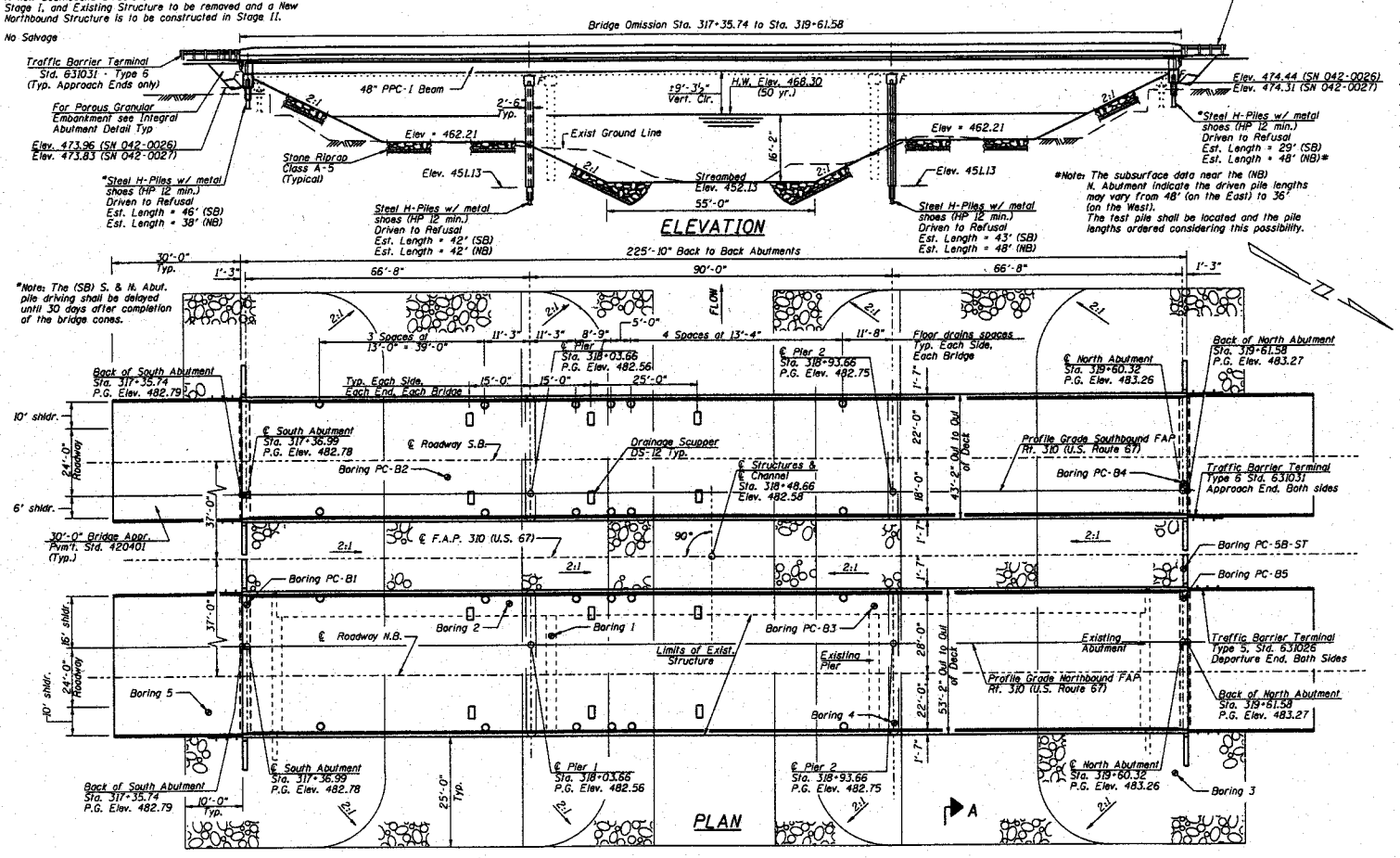
A New Southbound Structure will be constructed in Stage I, and Existing Structure to be removed and a New Northbound Structure is to be constructed in Stage II.

No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-16-1, 42-1	JERSEY		
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Sheet 1 of 2 Sheets



DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999, 2000 and 2002 Interims

LOADING HS20-44

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

SEISMIC DATA

Seismic Performance Category (SPC) - A
Bedrock Acceleration Coefficient (A) - 0.07
Site Coefficient (S) - 1.2

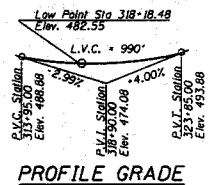
DESIGN STRESSES

FIELD UNITS

f' c = 3,500 psi
f y = 60,000 psi (Reinf.)
f y = 36,000 psi (Structural M270 Grade 36)

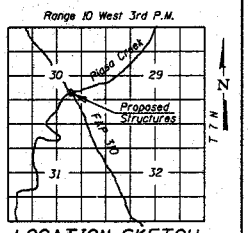
PRECAST PRESTRESSED UNITS

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



PROFILE GRADE

(Along Median Edge of Roadway)



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 43.8 sq. mi. Low Grade Elev. 482.55 @ Sta. 318+18.13 Max. Rec. H.W.E. = N/A

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	9440	1616	1657	468.3	0.3	0.2	468.6	468.5
Base	100	10,800	1713	1754	468.8	0.4	0.3	469.2	469.1
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max. Calc.	500	14,300	1937	1970	469.9	0.6	0.6	470.5	470.5

HIGHWAY CLASSIFICATION

FAP-310
Functional Class: Rural Major with partial access control
ADT: 8,700 (2002) ____ 22,500 (2020) ____
ADTT: 500 (2002) ____ 1,350 (2020)
DHV 2250 (2020)
Design Speed: - 70 m.p.h.
Posted Speed: - 65 m.p.h.

DESIGNED	KPS-LSH
CHECKED	GR
DRAWN	D.C.-M.D.
CHECKED	GR-MEB

GENERAL PLAN

FAP-310 over Plasa Creek
Section (60-16-1, 42-1)
Jersey County
Station 318+48.66
SN 042-0026 (S.B.) and 042-0027 (N.B.)

APPROVED

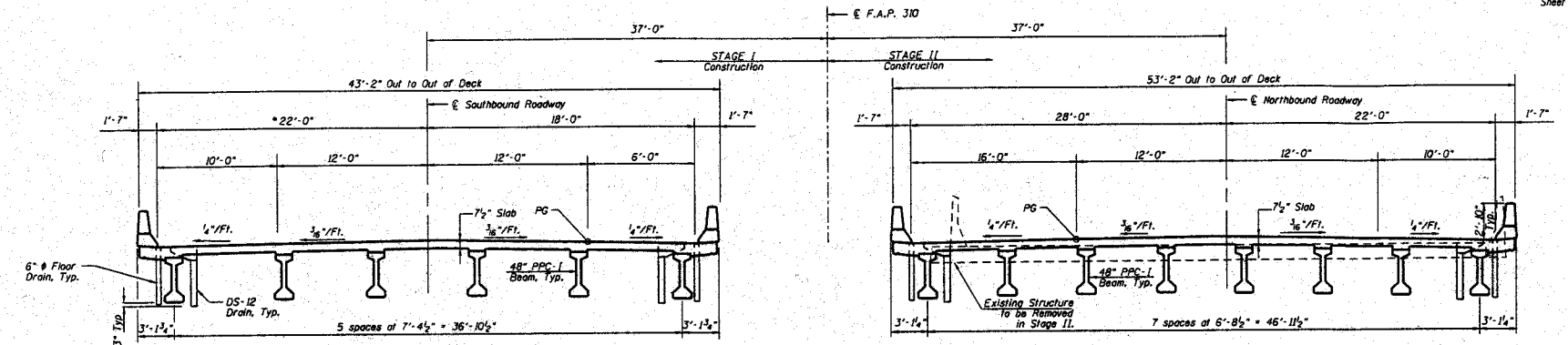
NOV 22 2002

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-16-1, 42-1	JERSEY		
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

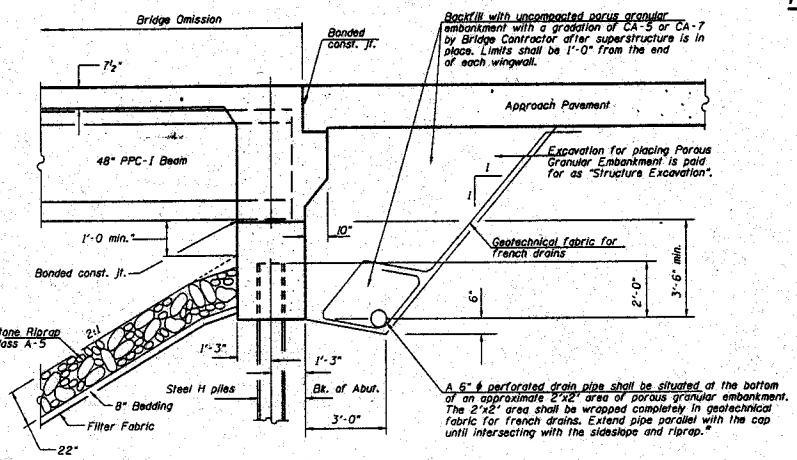
Sheet 2 of 2 Sheets

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

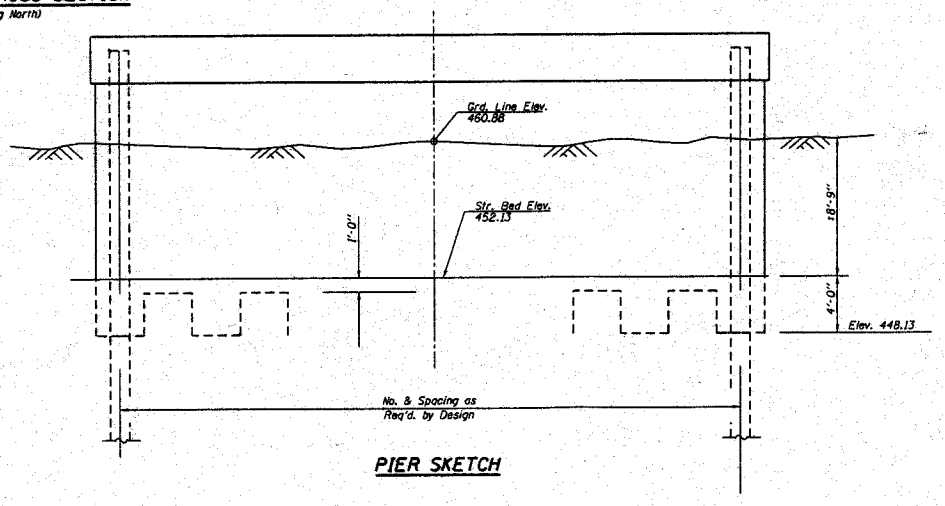


TYPICAL CROSS SECTION

(Looking North)



SECTION THRU INTEGRAL ABUTMENT

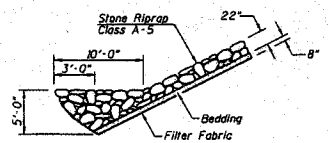


PIER SKETCH

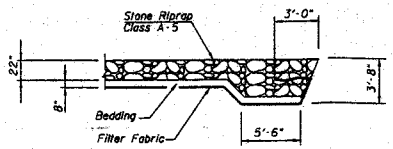
CONSTRUCTION SEQUENCE

1. STAGE I: Construct Proposed Southbound Structure

2. STAGE II: Establish traffic on newly constructed Southbound Structure. Remove existing structure, SN 042-0002, and construct Proposed Northbound Structure.



STONE RIPRAP ANCHOR DETAIL



SECTION A-A

DESIGNED	KPS-LSH
CHECKED	GR
DRAWN	M.D.
CHECKED	GR-MEB

STAGE CONSTRUCTION

FAP-310 over Plaza Creek
Section (60-16-1, 42-1)
Jersey County
Station 318+48.66
SN 042-0026 (S.B.) and
042-0027 (N.B.)

APPROVED

NOV 22 2002

AS A BASIS FOR
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