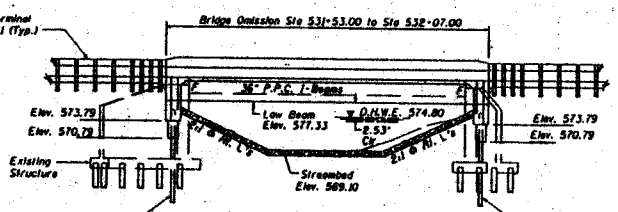
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	6B-1	EFFINGHAM	1	1
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

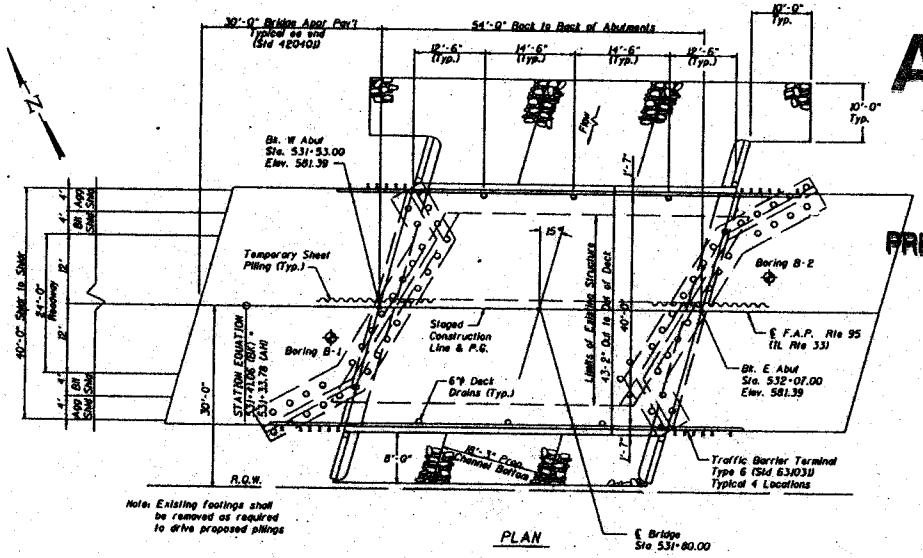
Benchmark: RR Spike in 2nd Utility Pole East of Existing Structure (No. 025-0037) on North side of IL Route 33. Elev. 581.69.

Traffic Management: One lane of traffic shall be maintained at all times using staged construction.

Existing structure: Structure number 025-0037 was built in 1925 as SBI Route 33, Section 6B. The superstructure was replaced and substructure was widened in 1974 as Section 6BR-2. The existing structure is 33'-0" out-to-out of deck, 48'-6" back-to-back of abutments. It has 21" precast concrete deck beams with closed abutments on timber piling. The existing structure shall be removed and replaced using staged construction. No salvage.

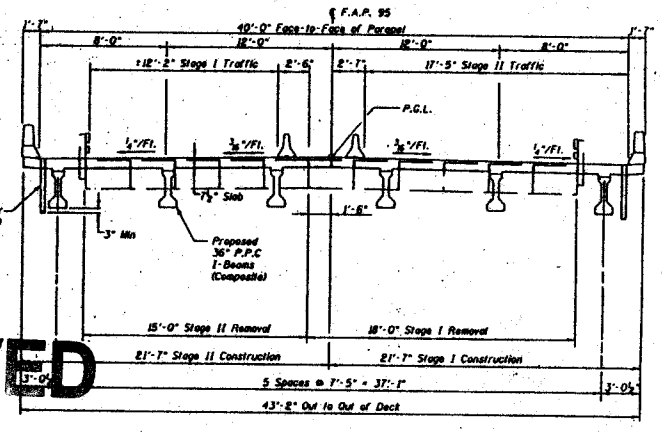


ELEVATION



Note: Existing footings shall be removed as required to drive proposed pilings

PLAN

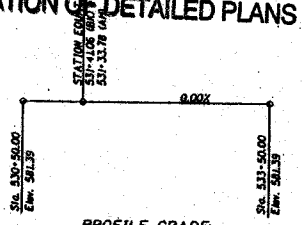


CROSS SECTION

APPROVED

FEB 06 2002

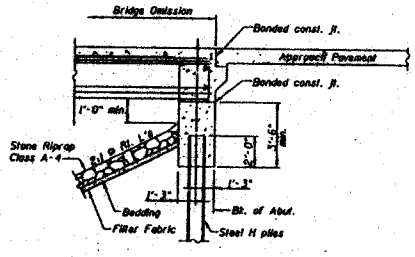
AS A BASIS FOR PREPARATION OF DETAILED PLANS



PROFILE GRADE

F.A.P. Rte. 95 (IL. Rte. 33)

(Along ℄ roadway)



SECTION THRU INTEGRAL ABUTMENT

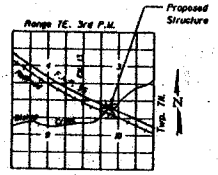
(Dim's @ Rt L's)

WATERWAY INFORMATION

Drainage Area = 3.6 sq.mi. Low Grade Elev. = 581.05

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E. Ft.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater Elev. - Ft. Exist.	Headwater Elev. - Ft. Prop.
	10	470	101	130	573.8	0.3	0.0	574.1	573.8
Design	50	700	143	171	574.8	0.8	0.0	575.0	574.8
Base	100	800	158	186	575.2	0.2	0.0	575.4	575.2
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1020	186	219	575.9	0.3	0.0	576.2	575.9

Maximum Highwater Elevation Unknown



LOCATION SKETCH

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.075g
Site Coefficient (S) = 1.0

HIGHWAY CLASSIFICATION

F.A.P. Route 95	(IL. Route 33)
Class	Rural Minor Arterial
D.H.V.	672
A.D.T.	5743 (2000); 8040 (2021)
A.D.T.T.	873 (2000); 1222 (2021)
Design Speed	70 mph
Posted Speed	55 mph

DESIGN SPECIFICATIONS

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

LOADING HS20-44

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

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi

f_y = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'_c = 6,000 psi

f'_{ci} = 5,000 psi

f'_s = 270,000 psi (½" ϕ Low Relax. strands)

f_{si} = 201,960 psi (½" ϕ Low Relax. strands)

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

ILLINOIS ROUTE 33 OVER

BISHOP CREEK

F.A.P. RTE. 95

SECTION 6B-1

EFFINGHAM COUNTY

Sta. 531+80

STRUCTURE NUMBER 025-0097

DATE: APR. 2001 DRAWN BY: BDM

REVISED: JAN. 2001 CHECKED BY: SJK