

Bench Mark: Chiseled "□" at S.W. wingwall of S.N. 002-0008, Elev. 102.726

Existing Structure: S.N. 002-0008. Built 1929 as S.B.I. Route 146, Section 101. Existing structure consists of a single span reinforced concrete slab superstructure with a total length of 7.92 m and an out to out width of 12.82 m. The abutments are closed type abutments supported on timber piling. The structure shall be replaced with a double barrel box culvert. Traffic to be maintained using stage construction.

No salvage

All dimensions are in millimeters (mm) except as noted.

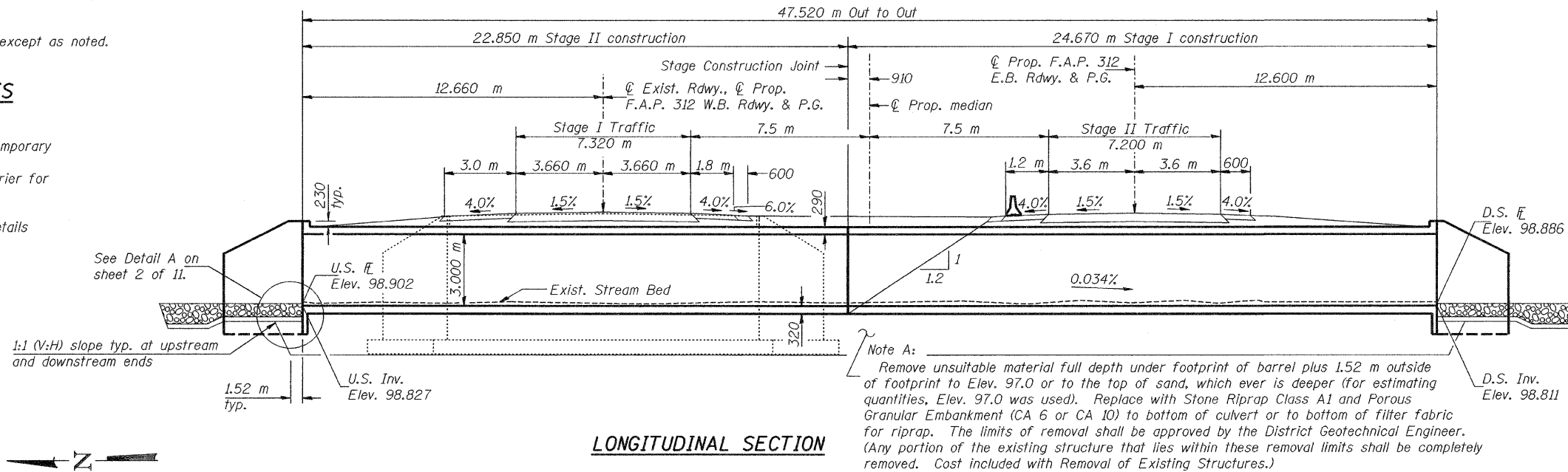
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.P. 312	101B-1	ALEXANDER	152	83	11 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

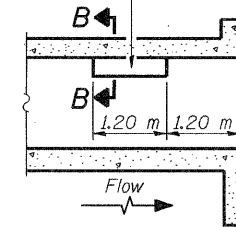
Contract No. 98577

INDEX OF SHEETS

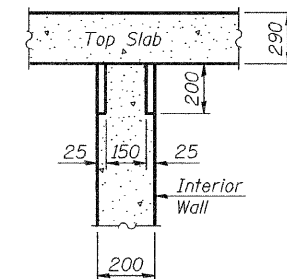
- 1 General Plan & Elevation
- 2 General Data
- 3 Stage Construction & Temporary Sheet Piling Details
- 4 Temporary Concrete Barrier for Stage Construction
- 5-7 Culvert Details
- 8 Bar Splicer Assembly Details
- 9-11 Soil Boring Logs



Notch formed by rough finished board attached to and removed with form-work, interior wall. (Do not chamfer).

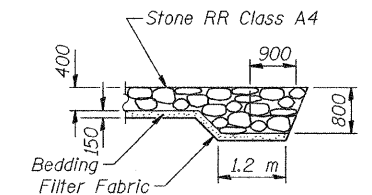


LONGITUDINAL SECTION



SECTION B-B

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

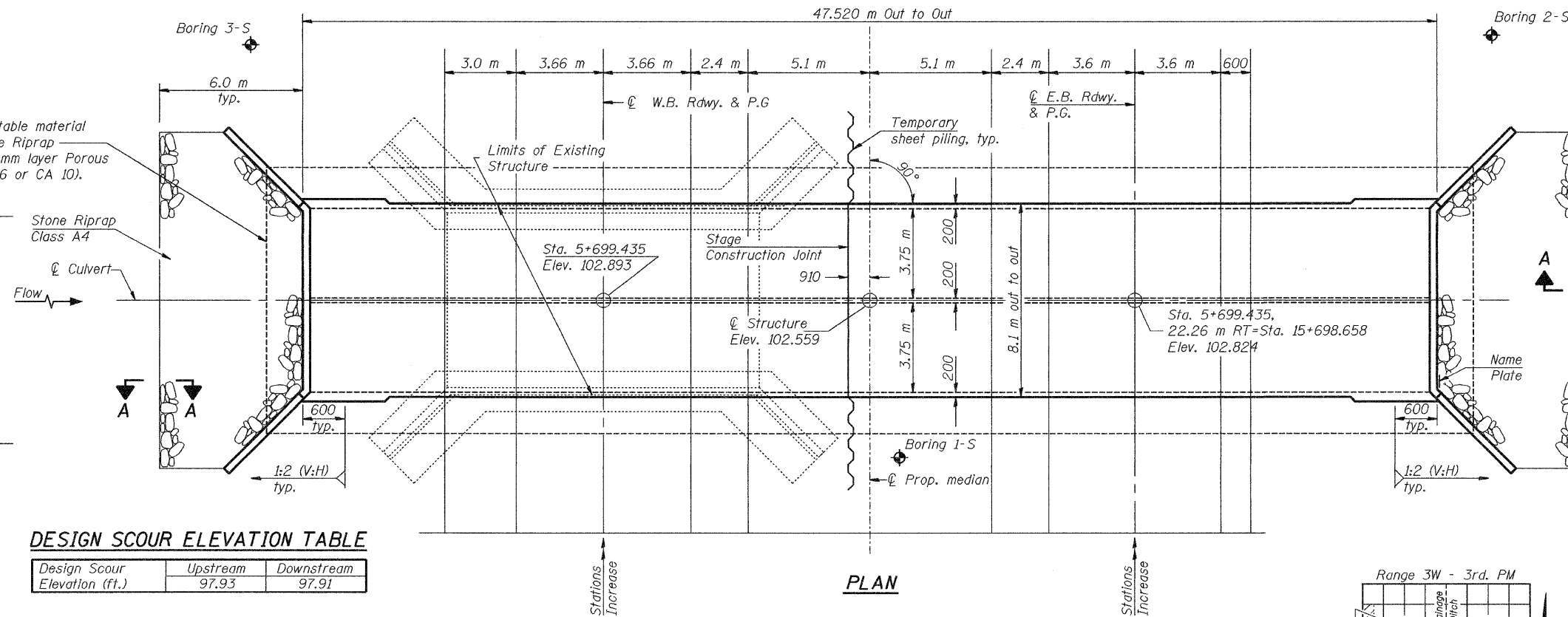


SECTION A-A

STATION 5+699.435
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RTE. 312 SEC. 101B-1
LOADING MS18
STRUCTURE NO. 002-2002

NAME PLATE
See Std. 515001

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 146 OVER
DRAINAGE DITCH
F.A.P. RTE. 312 - SECTION 101B-1
ALEXANDER COUNTY
STATION 5+699.435
STRUCTURE NO. 002-2002



PROFILE GRADE
Along W.B. Rdwy

PROFILE GRADE
Along E.B. Rdwy

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	97.93	97.91

WATERWAY INFORMATION

Drainage Area = 10.18 km² Low Grade Elev. 102.63 @ Sta. 5+600.000

Flood	Freq. Yr.	Q m ³ /s	Opening m ²		Nat. H.W.E. - m		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	15.9	17.1	18.4	101.28	0.01	0.00	0.01	0.00
Base	100	17.6	17.5	18.8	101.33	0.02	0.00	0.02	0.00
Overtopping									
Max. Calc.	500	21.8	18.2	19.4	101.42	0.05	0.00	0.05	0.00

LOADING MS18

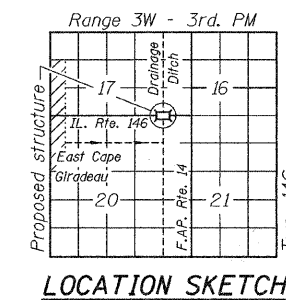
Allow 2.4 kN/m² for future wearing surface.

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999 & 2000 Interims

DESIGN STRESSES

FIELD UNITS
f_c = 24 MPa
f_y = 420 MPa (reinforcement)



LOCATION SKETCH

DESIGNED	WJ/sbk
CHECKED	R.T.D.
DRAWN	R.T.D.
CHECKED	LSB/ccc

EXAMINED **Thomas J. Domagala**
ENGINEER OF SPECIAL DESIGN
PASSED **Ralph E. Anderson**
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-2010