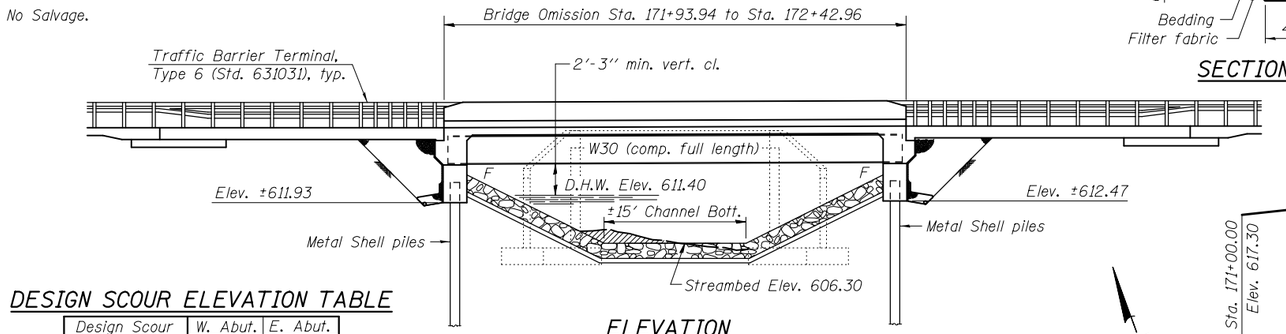
Bench Mark: Chiseled "□" on North corner of N.E. wingwall of structure 090-0085 Elev. 619.09

Existing Structure: S.N. 090-0085, single span 22'-0" bk. to bk. abutments, 42'-2" o. to o. R.C. slab bridge on closed abutments. Built as S.B.I. Rte. 121, Sec. 105B at Sta. 158+90.00 in 1927. The contractor shall remove the existing structure as required and replace it with a single span wide flange superstructure on integral abutments. The road shall be kept open to one lane traffic at all times by utilizing stage construction.

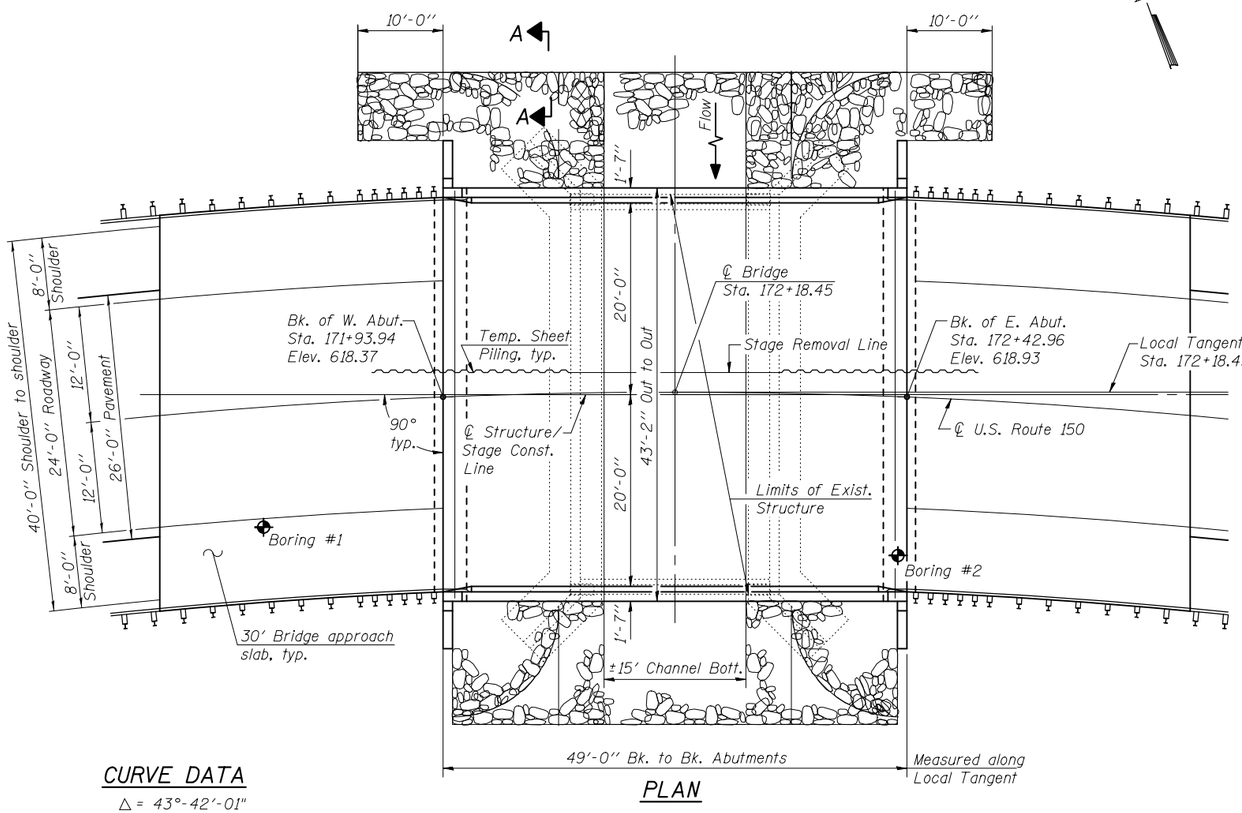
No Salvage.



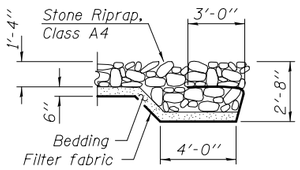
ELEVATION

DESIGN SCOUR ELEVATION TABLE

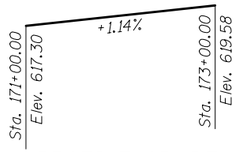
Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	611.93	612.47



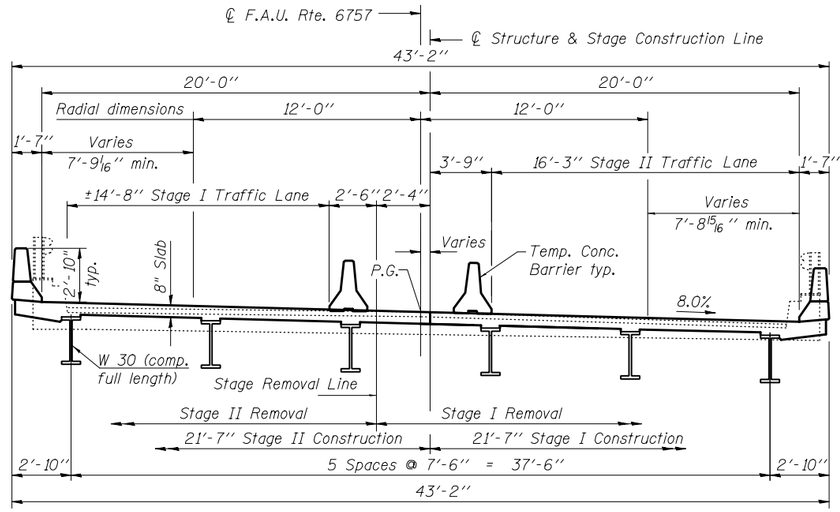
PLAN



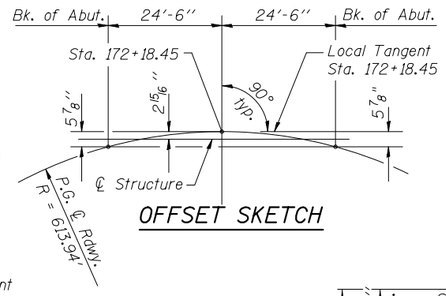
SECTION A-A



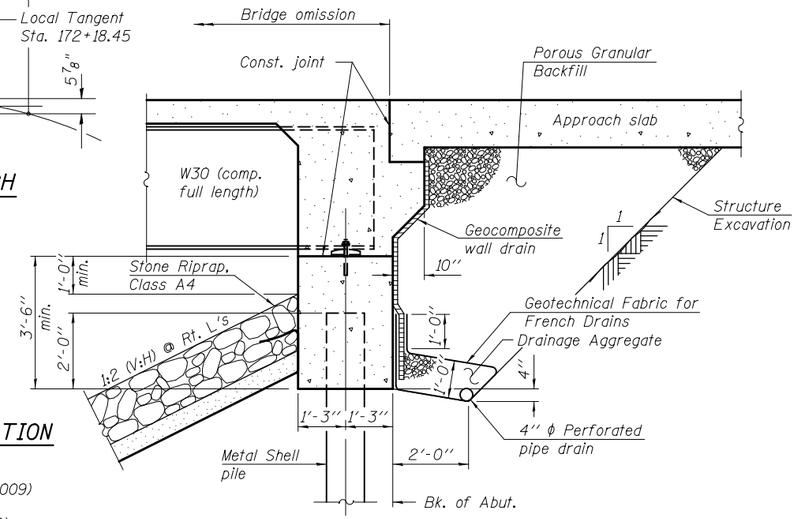
PROFILE GRADE
Along ℄ Roadway



CROSS SECTION
(Looking East)



OFFSET SKETCH



SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. L's)

CURVE DATA

Δ = 43°-42'-01"
D = 9°-19'-57"
T = 246.18'
L = 468.26'
E = 47.52'
R = 613.94'
S.E. =0.08'/'
P.C. = Sta. 170+65.32
P.T. = Sta. 175+33.58
P.I. = Sta. 173+11.50

WATERWAY INFORMATION

Drainage Area = 1.52 sq. mi. Low Grade Elev. 615.01 @ Sta. 169+00.00

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	824	97	130	611.4	2.9	1.6	614.3	613.0
Base	100	965	103	140	611.7	3.5	1.8	615.2	613.5
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1312	166	174	612.5	3.6	2.1	616.1	614.6

HIGHWAY CLASSIFICATION

F.A.U. Route 6757
Class: Minor Arterial
A.D.T.: 5900 (1989) 7198 (2009)
ADTT: 236 (1998) 288 (2018)
D.H.V.: 590 (1989) 720 (2009)
Speed: 45 m.p.h (posted); 45 m.p.h. (design)
Two-way traffic Directional Dist. 50:50

DESIGN SPECIFICTIONS

2010 AASHTO LRFD Bridge Design Specifications

LOADING HL 93

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

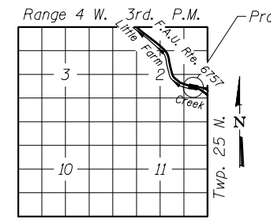
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.052g
Design Spectral Acceleration at 0.2 sec (S_{DS}) = 0.12g
Soil Site Class = B



LOCATION SKETCH

GENERAL PLAN & ELEVATION
U.S. ROUTE 150 OVER LITTLE FARM CREEK
F.A.U. RTE. 6757 - SEC. (105B)BR
TAZEWELL COUNTY
STATION 172+18.45
STRUCTURE NO. 090-0148

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6757	(105B)BR	TAZEWELL		
		CONTRACT NO. 12345		
	ILLINOIS	FED. AID PROJECT		