

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

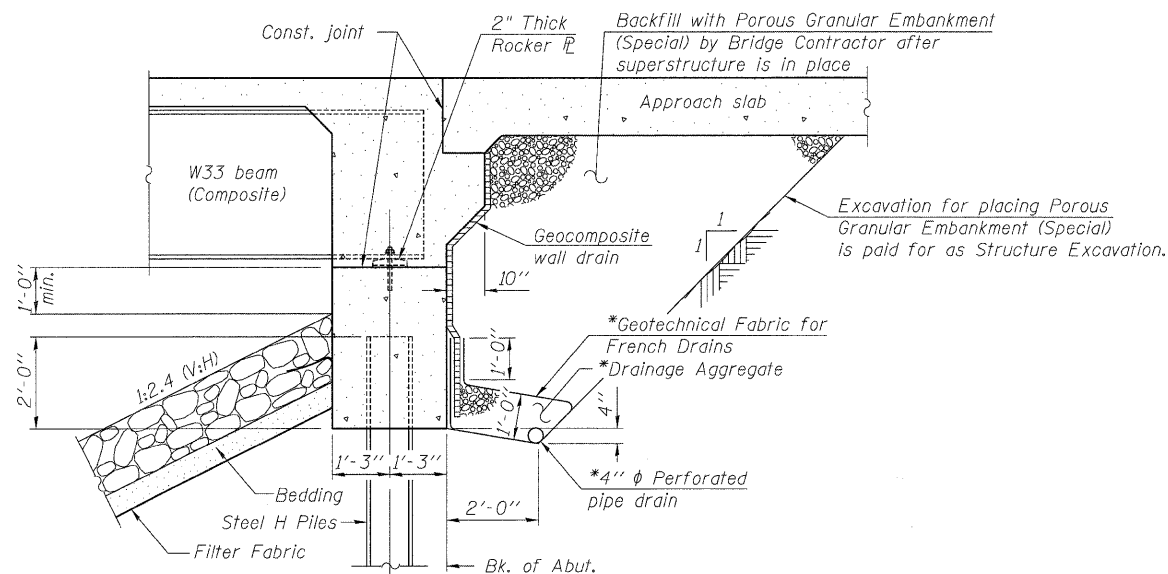
1. General Plan & Elevation
2. General Data
3. Stage Construction Details
4. Top of Slab Elevations 1
5. Top of Slab Elevations 2
6. North Approach Top of Slab Elevations
7. South Approach Top of Slab Elevations
8. Superstructure Plan
9. Superstructure Details
10. Integral Abutment Diaphragm Details
11. Bridge Approach Slab Details
12. Bridge Approach Slab Details
13. Framing Plan
14. Structural Steel Details
15. North Abutment
16. South Abutment
17. Bar Splicer Assembly and Mechanical Splicer Details
18. HP Pile Details
19. Temporary Concrete Barrier For Stage Construction
20. Boring Logs 1
21. Boring Logs 2

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts  $\frac{3}{4}$  in. dia., holes  $\frac{13}{16}$  in. dia., unless otherwise noted.
2. Calculated weight of structural steel = 59,430 pounds.
3. All structural steel shall be AASHTO M 270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
8. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
9. Slipforming of the parapets is not allowed.
10. The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
11. If the Contractor's procedures for existing deck beam removal or construction of the new superstructure involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the deck beams for the proposed loads. Cost included with Removal of Existing Structures.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		119	119
Stone Riprap Class A4	Sq. Yd.		910	910
Filter Fabric	Sq. Yd.		910	910
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		141	141
Floor Drains	Each	8		8
Concrete Structures	Cu. Yd.		53.3	53.3
Concrete Superstructure	Cu. Yd.	214.1		214.1
Bridge Deck Grooving	Sq. Yd.	436		436
Concrete Encasement	Cu. Yd.		4.0	4.0
Protective Coat	Sq. Yd.	541		541
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	990		990
Reinforcement Bars, Epoxy Coated	Pound	45,050	12,630	57,680
Bar Splicers	Each	453	126	579
Furnishing Steel Piles HP 12x53	Foot		236	236
Driving Piles	Foot		236	236
Test Pile Steel HP 12x53	Each		1	1
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	24		24
Geocomposite Wall Drain	Sq. Yd.		46	46
Pipe Underdrains for Structures 4"	Foot		118	118
Temporary Soil Retention System	Sq. Ft.		197	197
Asbestos Bearing Pad Removal	Each	16		16



SECTION THRU INTEGRAL ABUTMENT

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101.)

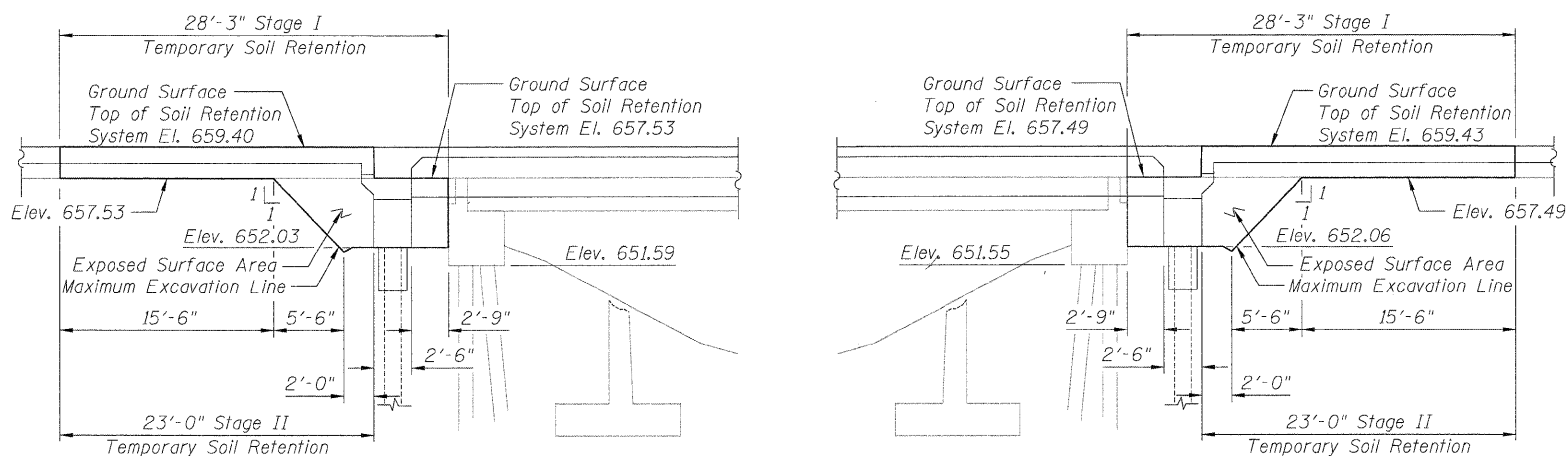
\*Included in the cost of Pipe Underdrains for Structures.

**ZROKA** engineering  
Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

DESIGNED	LAS
CHECKED	JLA
DRAWN	SAW
CHECKED	LAS

STATION 1711+37.39  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RTE. 796 SEC. (106)BR-3  
LOADING HL-93  
STRUCTURE NO. 027-0099

NAME PLATE  
See Std. 515001



TEMPORARY SOIL RETENTION SYSTEM

A cantilevered sheet piling system does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

WATERWAY INFORMATION

Drainage Area = 11.25 Sq. Mi.		Exist. Low Grade Elev. = 656.63 @ Sta. 1719+00.00 Prop. Low Grade Elev. = 656.63 @ Sta. 1719+00.00							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	893	330	330	654.5	0.00	654.5	654.5	
Base	100	1,025	349	364	655.2	0.1	655.3	655.2	
Overtopping	N/A								
Max. calc.	500	1,339	349	394	656.6	0.2	656.8	656.7	

DESIGN SCOUR ELEVATION TABLE

Location	N. Abut	S. Abut
Design Scour Elevation	652.0	652.1

GENERAL DATA  
STRUCTURE NO. 027-0099

SHEET NO. 2 OF 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	796	(106)BR-3	FORD	48	13
SN 027-0099			CONTRACT NO. 66916		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT		