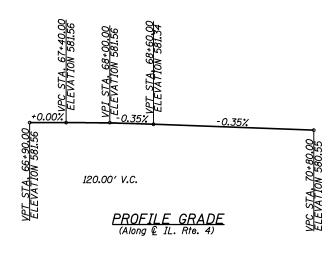
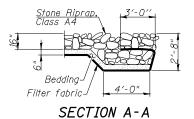
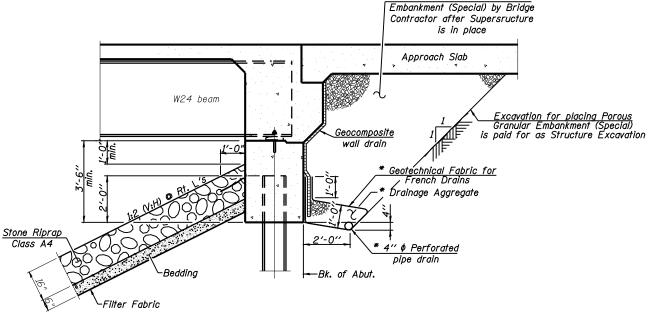
GENERAL NOTES

- 1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts -7/8 in. ϕ , holes 15 ₁₆ in. ϕ , unless otherwise noted.
- 2. Calculated weight of Structural Steel = 149130 lbs. (M 270, Grade 50) 20740 lbs. (M 270 Grade 36)
- 3. No field welding is permitted except as specified in the contract documents.
- 4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of l_{g} inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 7. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".
- 8. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- 9. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 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 beam removal 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 beams for the proposed loads. Cost included with Removal of Existing Structures.



Backfill with Porous Granular





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

* Included in the cost of Pipe Underdrains for Structures.

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).



Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

SHEET NO. 2

. 2	F.A.P. RTE.	SECTION				COUNTY	TOTAL SHEETS		SHEE NO.
	662	H(RS-10,B-2)				SANGAMON	84		46
TS						CONTRACT	NO.	72	A73
	FED. RO	DAD DIST. NO.	ILLINOIS	FED.	ΑI	D PROJECT			

TOTAL BILL OF MATERIAL

Porous Granular Embankment, Special Cu. Yd. 225 Stone Riprap, Class A4 Sq. Yd. 2375 Filter Fabric Sq. Yd. 2375 Removal of Existing Structures Each 1 1 Slope Wall Removal Sq. Yd. 418 Structure Excavation Cu. Yd. 278 Floor Drains Each 14 Concrete Structures Cu. Yd. 286.7 Concrete Superstructure Cu. Yd. 589.2 Bridge Deck Grooving Sq. Yd. 1324 Concrete Encasement Cu. Yd. 18.2 Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum 1 Stud Shear Connectors Each 7140	225 2375 2375 1 418 278 14 286.7 589.2 1324 18.2 1773 1
Filter Fabric Sq. Yd 2375	2375 1 418 278 14 286.7 589.2 1324 18.2 1773 1 7140
Removal of Existing Structures Éach 1 Slope Wall Removal Sq. Yd. 418 Structure Excavation Cu. Yd. 278 Floor Drains Each 14 Concrete Structures Cu. Yd. 286.7 Concrete Superstructure Cu. Yd. 589.2 Bridge Deck Grooving Sq. Yd. 1324 Concrete Encasement Cu. Yd. 18.2 Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum 1	1 418 278 14 286.7 589.2 1324 18.2 1773 1 7140
Slope Wall Removal Sq. Yd. 418	418 278 14 286.7 589.2 1324 18.2 1773 1 7140
Structure Excavation Cu. Yd. 278 Floor Drains Each 14 Concrete Structures Cu. Yd. 286.7 Concrete Superstructure Cu. Yd. 589.2 Bridge Deck Grooving Sq. Yd. 1324 Concrete Encasement Cu. Yd. 18.2 Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum 1	278 14 286.7 589.2 1324 18.2 1773 1 7140
Floor Drains Each 14 Concrete Structures Cu. Yd. 286.7 Concrete Superstructure Cu. Yd. 589.2 Bridge Deck Grooving Sq. Yd. 1324 Concrete Encasement Cu. Yd. 18.2 Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum 1	14 286.7 589.2 1324 18.2 1773 1 7140
Concrete Structures Cu. Yd. 286.7 Concrete Superstructure Cu. Yd. 589.2 Bridge Deck Grooving Sq. Yd. 1324 Concrete Encasement Cu. Yd. 18.2 Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum I	286.7 589.2 1324 18.2 1773 1 7140
Concrete Superstructure Cu. Yd. 589.2 Bridge Deck Grooving Sq. Yd. 1324 Concrete Encasement Cu. Yd. 18.2 Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum 1	589.2 1324 18.2 1773 1 7140
Bridge Deck GroovingSq. Yd.1324Concrete EncasementCu. Yd.18.2Protective CoatSq. Yd.1773Furnishing and Erecting Structural SteelL. Sum1	1324 18.2 1773 1 7140
Concrete Encasement Cu. Yd. 18.2 Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum 1	18.2 1773 1 7140
Protective Coat Sq. Yd. 1773 Furnishing and Erecting Structural Steel L. Sum 1	1773 1 7140
Furnishing and Erecting Structural Steel L. Sum 1	1 7140
	7140
Stud Shear Connectors Fach 7140	
Reinforcement Bars, Epoxy Coated Pound 144810 27380	172190
Bar Splicers Each 696 152	848
Bicycle Railing Foot 384	384
Parapet Railing Foot 384	384
Furnishing Steel Piles HP 10 x 42 Foot 1362	1362
Driving Piles Foot 550	550
Test Pile Steel HP 10 x 42 Each 2	2
Pile Shoes Each 52	52
Temporary Sheet Piling Sq. Ft. 599	599
Name Plates Each 1	1
Anchor Bolts, 1" Each 112	112
Geocomposite Wall Drain Sq. Yd. 117	117
Pipe Underdrains for Structures, 4" Foot 240	240
Setting and Driving Piles in Rock Each 28	28
Underwater Structure Excavation Protection - Location 1 Each 1	1
Underwater Structure Excavation Protection - Location 2 Each 1	1
Mechanical Splicers Each 60	60

WATERWAY INFORMATION

Existing Low Grade Elev. 579.61 © Sta. 70+50 Drainage Area = 7.3 sq. mi. Proposed Low Grade Elev. 580.51 © Sta. 71+00									
Flood	Freq.	a	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwo	iter El.
F1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	1040	270	420	575.47	0.2	0.0	575.63	575.47
Design	50	1680	370	540	576.73	0.3	0.0	576.99	576.74
Base	100	1960	410	590	577.20	0.3	0.1	577.52	577.26
Overtop Existing	>500	-	-	-	-	-	-	-	-
Overtop Proposed	>500	-	-	-	-	-	-	-	-
Max. Calc.	500	2650	470	670	578.23	0.6	0.2	578.79	<i>578.46</i>

DESIGN SCOUR ELEVATION TABLE

Design Scour	N. Abut.	Pier 1	Pier 2	S. Abut.
Flevation (ft.)	574 5	564.0	5639	574 O

GENERAL NOTES & BILL OF MATERIAL S.N. 084-0521