

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Concrete Sealer shall be applied to the designated areas of the Expansion Bent Caps. See Sheet SA21, SA22, SA23, SA24, and SA25 for Locations.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
- Piles shall be driven through 18" diameter precored holes extending to elevations shown on sheets SA21, SA23, SA24, and SA25 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.
- Refer to Roadway Plans for type and quantity of fill material required within the limits of Dry Land Bridge.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	-	251	251
STONE RIPRAP, CLASS A4	SQ YD	-	318	318
FILTER FABRIC	SQ YD	-	318	318
STRUCTURE EXCAVATION	CU YD	-	2,763	2,763
CONCRETE STRUCTURES	CU YD	-	798.3	798.3
CONCRETE SUPERSTRUCTURE	CU YD	3,480.5	-	3,480.5
BRIDGE DECK GROOVING	SQ YD	7,195	-	7,195
PROTECTIVE COAT	SQ YD	7,378	-	7,378
REINFORCEMENT BARS, EPOXY COATED	POUND	1,022,690	89,190	1,111,880
BAR SPLICERS	EACH	1,751	252	2,003
FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	-	20,006	20,006
DRIVING PILES	FOOT	-	20,006	20,006
TEST PILE METAL SHELLS	EACH	-	14	14
NAME PLATES	EACH	1	-	1
PREFORMED JOINT STRIP SEAL	FOOT	688.5	-	688.5
CONCRETE SEALER	SQ FT	-	6340	6340
DRAINAGE SCUPPERS, DS-12M10	EACH	14	-	14
DRAINAGE SYSTEM	L SUM	1	-	1

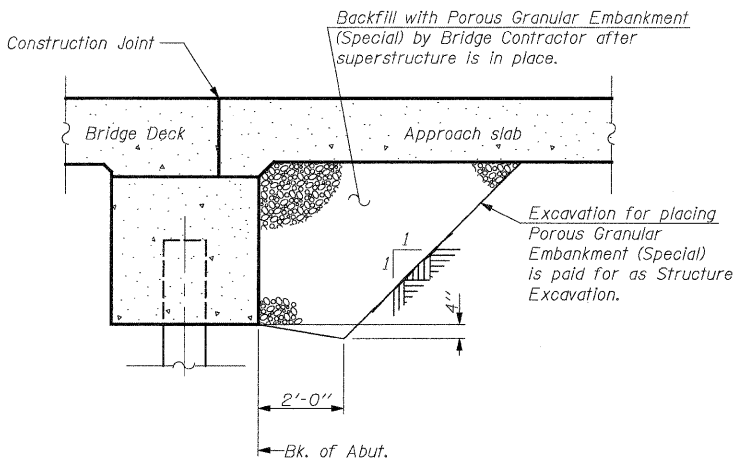
WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
Design	10	62	7	40.2	712.9	0.8	0.0	713.7	712.9	
Base	50	88	8	52.7	713.4	1.3	0.0	714.7	713.4	
Overtop Existing	100	102	9	60.0	713.7	1.8	0.0	715.5	713.7	
Max. Calc.	>100	500	172	14	80.9	715.4	4.5	0.0	719.9	715.4
Overtop Proposed	>500									

Existing Low Grade Elev. 716.10 @ Sta. 243+00.00
Proposed Low Grade Elev. 715.81 @ Sta. 243+00.00
Drainage Area = 31.8 acres

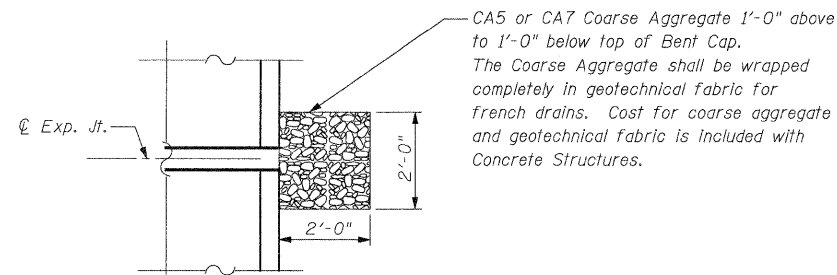
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Bent 13	Bent 14
	708.43	710.53



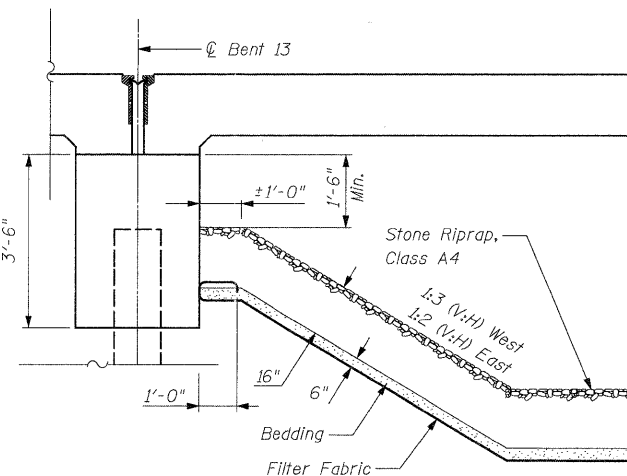
SECTION THRU APPROACH BENT

(IL RTE 53 Approach Bents Shown, Norwood Ave. Similar)



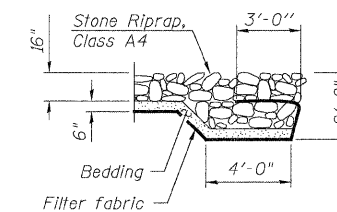
END OF EXPANSION JOINT DETAIL

(At Bents 5, 9, 13, & 17)



SLOPE PROTECTION DETAILS

Symmetric about the ϕ between Bents 13 and 14
Length of slope protection = 110'
(Looking upstream)



SECTION THRU END OF OPEN DITCH

Typical at West and East end of ditch between Bents 13 and 14

STATION 244+88.87
BUILT 2011 BY
STATE OF ILLINOIS
FAP RTE 257B, SEC. 532B
LOADING HL-93
STRUCTURE NO. 022-0012

NAME PLATE

See Std. 515001

**GENERAL NOTES AND
TOTAL BILL OF MATERIAL
STRUCTURE NO. 022-0012**

DESIGNED	- J. Vermillion
CHECKED	- J. Refvik
DRAWN	- J. Vermillion
CHECKED	- J. Refvik

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

SHEET NO. SA2 OF SA37	F.A.P RTE. 2578	SECTION 532B	COUNTY DUPAGE	TOTAL SHEETS 781	SHEET NO. 606
	CONTRACT NO. 60477				
12/3/2010		ILLINOIS FED. AID PROJECT			