

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 326	★	McHENRY	502	331
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-	326	

Contract No. 62882
★ (105X & 106)WRS-2

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GENERAL NOTES

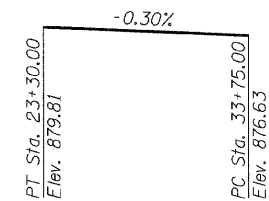
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Granular Embankment, Special	Cu Yd	389.3
Geotechnical Fabric for Ground Stabilization	Sq Yd	800.0
Removal of Existing Structures	Each	1.0
Removal and Disposal of Unsuitable Material for Structures	Cu Yd	651.0
Reinforcement Bars	Pound	97,450
Reinforcement Bars, Epoxy Coated	Pound	610
Bar Splicers	Each	148
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	414.9
Geotextile Retaining Wall	Sq Ft	161.0
Temporary Soil Retention System	Sq Ft	907.0

HORIZONTAL CURVE DATA

(Curve 2)
P.I. Sta. 28+09.68
 $\Delta = 15^{\circ}29'27''$
 $D = 2^{\circ}16'24''$
 $R = 2520.38'$
 $L = 681.43'$
 $T = 342.81'$
 $E = 23.21'$
P.C. Sta. 24+66.88
P.T. Sta. 31+48.31
S.E. = 0.029 ' / ' / '



PROFILE GRADE
(IL Route 47)
@ Northbound and Southbound

WATERWAY INFORMATION

Drainage Area = 12.0 mi² Exist. Low Grade Elev. 879.10
Prop. Low Grade Elev. 880.30 @ Sta. 25+25

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Appx. Nat. H.W.E.	U.S. Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.			Exist.	Prop.	Exist.	Prop.
Design	10	459	166.8	179.2	871.82	871.81	0.03	0.00	871.85	871.44
Base	50	839	210.0	229.9	873.55	873.55	0.07	0.00	873.62	873.12
Max. Calc.	100	1043	227.3	253.4	874.26	874.26	0.11	0.00	874.37	873.89
Overtopping	--	--	--	--	--	--	--	--	--	--
Freeboard							0.50	0.00	875.90	875.23

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft)	Upstream	Downstream
	861.62	861.48

DESIGNED - NDR
CHECKED - DSE
DRAWN - RTT
CHECKED - DSE
DATE - Aug. 5, 2009



GENERAL NOTES & TOTAL BILL OF MATERIAL
IL ROUTE 47 OVER
S. BRANCH KISHWAUKEE RIVER
F.A.P. 326 - SECT. (105X & 106)WRS-2
McHENRY COUNTY
STATION 25+24.62
STRUCTURE NO. 056-0085