

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -					F.A.P.	SECTION	COUNTY	TOTAL	SHEET	
c:\pw_work\pwidot\hennessdm\d0184799\D570800-sht-Details.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	GENERAL PLAN AND ELEVATION S.N. 074-8065 (CULVERT #3)				741	(8,9,10)CR	Piatt	65	29
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	NO. 7	0800	
	PLOT DATE = 10/19/2010	DATE -	REVISED -		SCALE:	SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.				ILLINOIS FED.	ED. AID PROJECT		

GENERAL NOTES

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8".

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard

The design reinforcement areas shall conform to those found in Table 1 of AASHTO M273 for an 8'x3' box section except the extension of the As1 bars into the top slab shall be equal to (23 inches + 2 longitudinal wire spaces).

The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Sections B-B, D-D and E-E on Sheet 2.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Structures No. 3	Each	1
Precast Concrete Box Culvert 8'x3' (M273)	Foot	39
Box Culvert End Section, Culvert No. 3	Each	2
Name Plates	Each	1
Permanent Bench Marks, Type I	Each	1
Porous Granular Embankment	Cu.Yd.	36.1
Stone Riprap, Class A1	Ton	21.0

GENERAL PLAN AND ELEVATION SINGLE 8'x3' PRECAST BOX CULVERT F.A.P. ROUTE 741 - SECTION (8,9,10)CR STATION 836+74.00 S.N. 074-8065 CULVERT NO. 3