

## General Notes

Build tops of headwalls parallel to the grade lines.

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 Specifications.

The box culvert end section shall be built in the field and a precast option is not allowed except the cut-off wall may be precast. If the contractor elects to use a precast cut-off wall, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval

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. E-F. and F-F on Sheet 3.

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 M273. The design reinforcement areas shall conform to those found in Table 1 of the AASHTO M273 specification for a 5' x 5' box section.

The joints between precast box sections shall be sealed, 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.

Drawings not to scale.

## TOTAL BILL OF MATERIAL

Item	Unit	Total	
Removal of Existing Structures No. 3	Each	1	
Precast Concrete Box Culverts 5'x5' (M273)	Foot	. 38	
Box Culvert End Section, Culvert No. 3	Each	2	
Steel Plate Beam Guardrail, Attached To Str.	Foot	12	

GENERAL PLAN AND ELEVATION
SINGLE 5'x5' PRECAST BOX CULVERT

F.A.S. ROUTE 2484 - SECTION (125,126,127)RS-2
MCLEAN CO.

STATION 857+89.91
CULVERT NO. 3

Sheet 1 of 3

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	GENERAL PLAN AND PROFILE					F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
SOUR DOWN COLVENT REPEACEMENT AT STA, 03/ + 03.91					2484	(125,126,127)RS-2	MCLEAN	122	47		
								CONTRAC	T NO.	70510	
	JONELY	SHEET NO.		SMEETS	SIA.	TO STA.	ILLINOIS FED. AID PROJECT				
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