

DATE VAME SCALI NAME

PLOT PLOT USER

			CONTRACT	NO. 70	623
	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	808	*	**	715	217
General Notes Build tops of headwalls parallel to the grad	de lines.		5,57,105)RS MPAIGN &		S
All construction joints shall be bonded acc Specifications.	ording to Artic	ele 503.09 of	the Standai	rd	
Reinforcement bars shall conform to the r Special Provisions.	equirements of	ASTM A706	Gr. (IL Moa	lified).	See
			1000 10	c	

All bars should be rounded and conform to the requirements of Article 1006.10 of the Standard Specifications.

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 precast manufacturer shall design and detail a connection/construction joint between the precast concrete box sections and the cast-in-place apron and wingwall. The minimum area of reinforcement passing through these construction joints shall be 0.20 sq. in./lineal ft. of welded wire fabric. The design shall be detailed in the shop drawings. The cost of the connection is included in the cost of the end section.

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 M259. See Section D-D on Sheet 2.

The design fill height for this box is more than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 259.

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
Pipe Culvert Removal	Foot	71
Precast Concrete Box Culverts 5'x3'	Foot	57
Box Culvert End Sections	Each	2

SHEET 1 OF 5

GENERAL PLAN AND ELEVATION SINGLE 5'x3' PRECAST BOX CULVERT F.A.P. ROUTE 808 - SECTION (205,57,105)RS-2 CHAMPAIGN COUNTY STATION 1109+00.00 CULVERT NO. 1