

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.
- If the Contractor's procedure for existing deck beam removal involves placement of cranes or other heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Costs included in Removal of Existing Structures.
- 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.
- The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the Contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culvert 12'x9'.
- Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The excavation shall be backfilled with trench backfill material to the bottom of the proposed subgrade and as shown in the Roadway Plans. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for Precast Concrete Box Culverts.
- Precast concrete box culvert slab and wall thickness are to be taken from AASHTO material specifications. If the Fabricator chooses to alter dimensions, it must be approved by the Engineer, and the calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer.
- All labor and material required for the construction of the connection collar shall be included in Box Culvert End Sections.
- Box culvert end sections are to be cast-in-place. Contractor has the option of using precast end sections, but the design of the reinforcement is the Contractor's responsibility and shall be approved by the Engineer. If the Contractor elects to use precast end sections, no adjustments in costs of the end sections will be allowed.
- The precast concrete box culvert and end sections shall conform to the requirements of AASHTO M273 (design fill height < 2'-0").
- Culvert flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

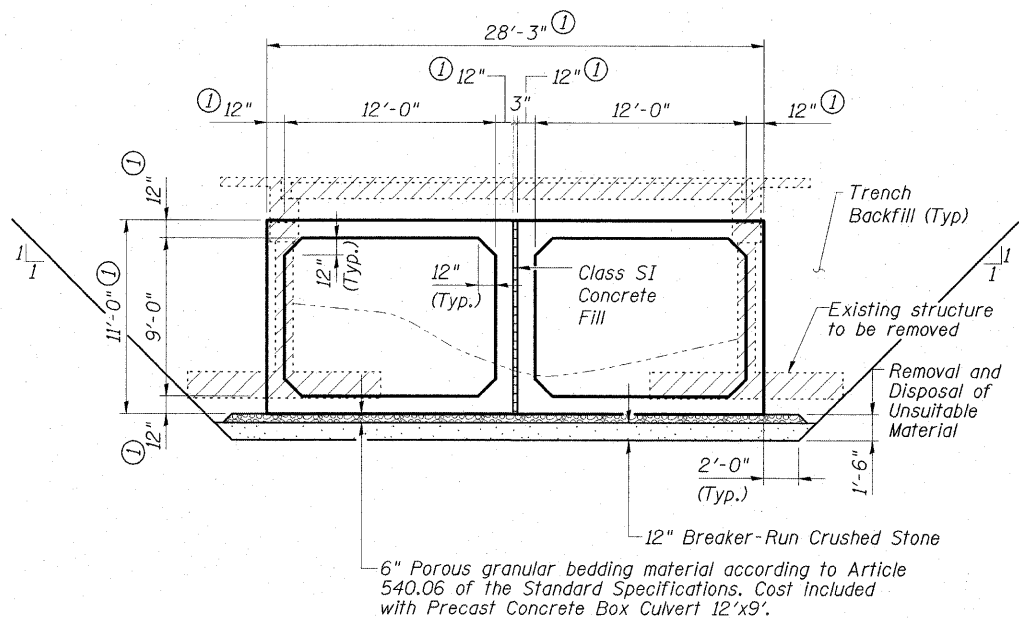
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	145
Filter Fabric	Sq. Yd.	145
Removal of Existing Structures No. 2	Each	1
Box Culvert End Sections	Each	2
Precast Concrete Box Culvert 12'x9' (M273)	Foot	120
Grating (Special)	Each	4
Removal and Disposal of Unsuitable Material	Cu. Yds.	265
Breaker-Run Crushed Stone	Ton	360
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	430
Asbestos Bearing Pad Removal	Each	20

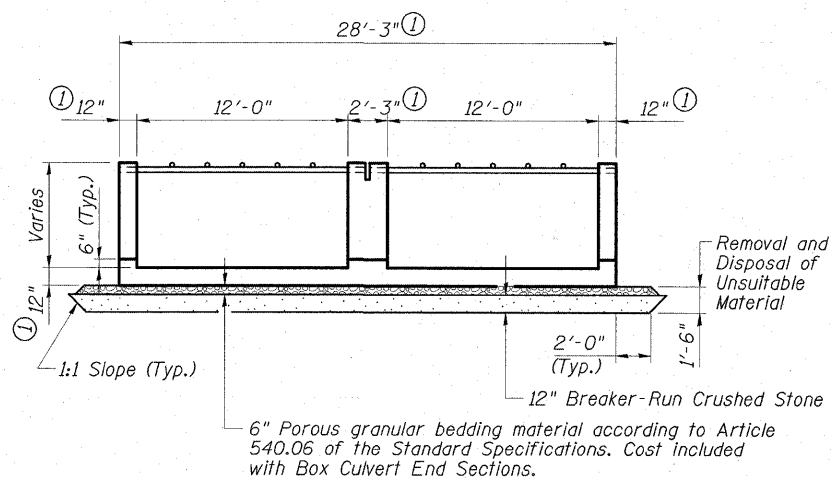
See Roadway Plans for quantities of Temporary Concrete Barrier and Excavation.

STATION 725+71.80  
BUILT 200\_ BY  
STATE OF ILLINOIS  
F.A. RT. 638 SEC. 136BR-1  
LOADING HS20-44  
STR. NO. 037-0172

**NAME PLATE**  
See Std. 515001



**SECTION THRU BARREL**



**SECTION THRU END SECTION**

① Thickness of precast culvert walls and slabs shall be verified on shop drawings and coordinated for final dimensions.

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY: DAJ 11/08  
DRAWN BY: cj 11/08  
CHECKED BY: ELH 12/08  
APPROVED BY: RDP 12/08

**GENERAL DATA**  
STRUCTURE NO. 037-0172

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7	638	136BR-1	HENRY	67	41
			CONTRACT NO. 64428		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		