

GENERAL NOTES

Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity furnished at the unit price for the work.

The verification of allowable soil bearing pressure underlying the proposed box culvert shall be verified by a dynamic cone penetration (DCP) test or other acceptable measures as provided by the District Geotechnical and Field Engineers. The results of the test must exceed the calculated bearing pressures shown on the plans prior to placement of the Concrete Box Culvert. Tests failing to exceed the calculated bearing pressures as shown on the plans will require subsurface modification that must be coordinated with the District Geotechnical and Field Engineers.

Expansion bolts shall be according to Standard Specification Article 1006.09.

Precast alternative not allowed at this site.

A distance half the length of the wingwall but not less than 6'-0" of the barrel shall be poured monolithically with the wingwalls.

Calculated max. soll pressure under barrel = 2,783 psf.

For Riprap details and quantities see Roadway Plans.

Existing C.M.P. extension and concrete coupler to be removed shall be paid for as Removal of Existing Structures, see Roadway Plans.

For Total Bill of Material see sheet 3 of 4.

4'-4"

3'-0"

Const. Jt.

BOX CULVERT

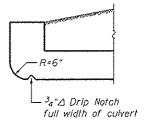
END ELEVATION

(Dimensions Shown at Rt L's)

SHEET NO. 1 OF 4 SHEETS

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 112" unless noted otherwise.

The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completed filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional 1/3 turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.



HEADWALL DETAILS AT UPSTREAM END

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS 20-44

Allow 50#/sq. ft, for future wearing surface on extension.

DESIGN STRESSES

EXISTING CONSTRUCTION NEW CONSTRUCTION fy = 60,000 psi fy = 40,000 psi

f'c = 3.500 psi f'c = 3.000 psi

GENERAL PLAN & ELEVATION ILLINOIS ROUTE 3 F.A.S. RTE. 752 - SEC. 101-2RS-1 JERSEY COUNTY STATION 354+11.67

LOCHMUELLER

EXP. 11-30-2014 Client Funty 8/6/14 DESIGNED - JD REVISED CHECKED - B8 REVISED Illinois Design Firm Number 184,001670 PLOT SCALE : DRAWN - EW REVISED PLOT DATE = 8/8/2014 CHECKED - CJF REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(Culvert Grate not

shown for clarity)

COUNTY TOTAL SHEET NO. 752 SECTION 101-2RS-1 JERSEY 438 250 CONTRACT NO. 76789 ILLINOIS FED. AID PROJECT

See Sheet 2 of 4 for Existing Corrugated Metal

Pipe Extension and Limits of Concrete Removal.

See Sheet 4 of 4 for Culvert Grate Details.