

STATION 214+10.8
 BUILT 20__ BY
 STATE OF ILLINOIS
 LOADING HL-93
 STRUCTURE NO. 072-2511

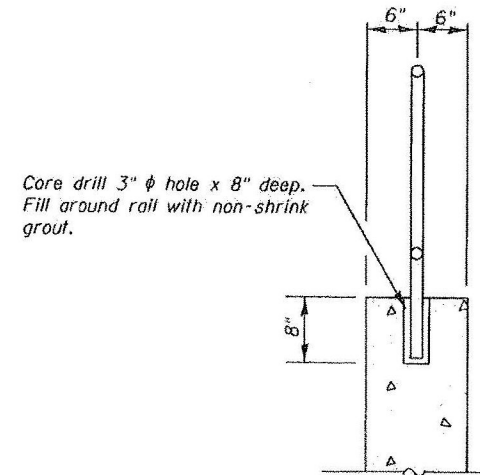
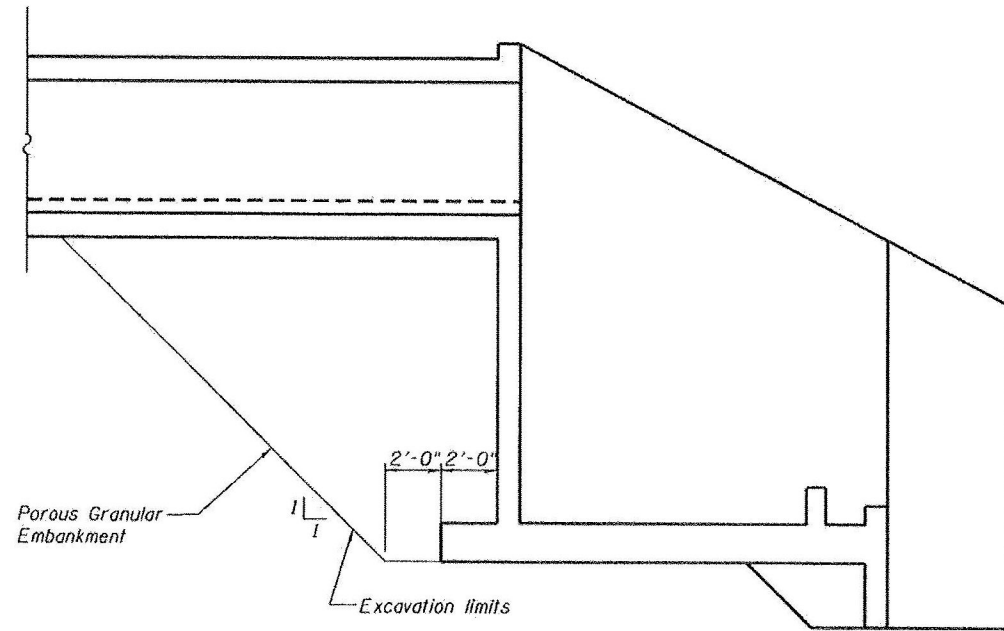
NAME PLATE
 See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	23830
Reinforcement Bars, Epoxy Coated	Pound	2770
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	156.0
Pipe Handrail, Special	Foot	30

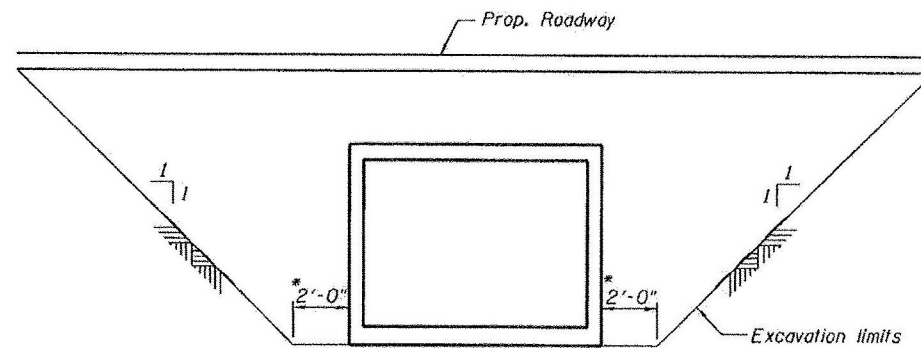
GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. See Standard Specifications for Backfilling and Embankment.
3. Exposed concrete edges shall have $\frac{3}{4}$ " chamfer unless otherwise noted.
4. Precast culvert option not allowed.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Removal and Disposal of any unsuitable material shall be determined in the field by the Engineer.
7. It shall be the responsibility of the Contractor to divert the stream flow during construction, in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included in the cost of Concrete Box Culverts.
8. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
9. Prior to commencing work, the Contractor shall verify the location of all existing utilities. Work shall be completed in a manner so as not to disturb or damage the existing utilities.



Core drill 3" ϕ hole x 8" deep.
 Fill around rail with non-shrink grout.

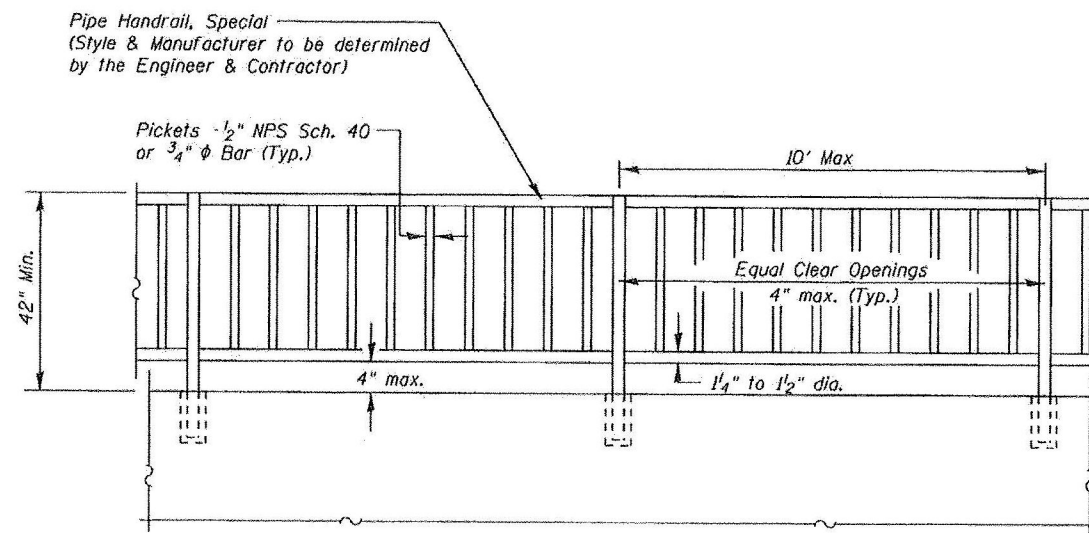
PIPE HANDRAIL, SPECIAL - WALL MOUNTED



* 5'-0" in undercut areas (15' RT of ϕ to 15' LT of ϕ)

EXCAVATION/BACKFILL DETAILS

The Contractor may elect to use a cantilevered sheet piling or other temporary soil retentions systems to minimize construction excavation. If so the Contractor shall submit the design including plan details and calculations prepared and sealed by an Illinois Licensed Structural Engineer for review and acceptance by the Engineer. Cost included with Concrete Box Culverts.



PIPE HANDRAIL, SPECIAL - FOR UPSTREAM DROP BOX

INDEX OF SHEETS

1. General Plan
2. General Notes & Bill of Material
3. Culvert Barrel Details
4. Downstream Drop Box Details
5. Upstream Drop Box Details
6. Wing Wall Details
7. Soil Borings

RAILING NOTES

Gripping surfaces shall be uninterrupted by construction elements, or obstructions.

Handrail shall not rotate within their fittings.

Handrail shall conform to Section 509 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.30, or 1006.34.

The diameter of the gripping surface of the handrail shall be $\frac{1}{4}$ " to $\frac{1}{2}$ "

Drilling of concrete will be necessary for handrail placement in Concrete walls.

This work shall consist of furnishing and erecting Handrails as listed above and according to this detail. This work shall be paid for at the Contract unit price per Foot for Pipe Handrail, Special.

FILE NAME =	USER NAME = Elgin 111	DESIGNED ADB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & BILL OF MATERIAL US 150 OVER FOX CREEK TRIBUTARY		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
#FILEABREV#		DRAWN ADB	REVISED -				2402	(110, 111, 112, 113, 114)RS-2	PEORIA	76	47		
		CHECKED MJS	REVISED -				CONTRACT NO. 68614						
		DATE 12/14/2012	REVISED -				ILLINOIS FED. AID PROJECT						
THE UPCHURCH GROUP, INC.				SCALE:	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.						