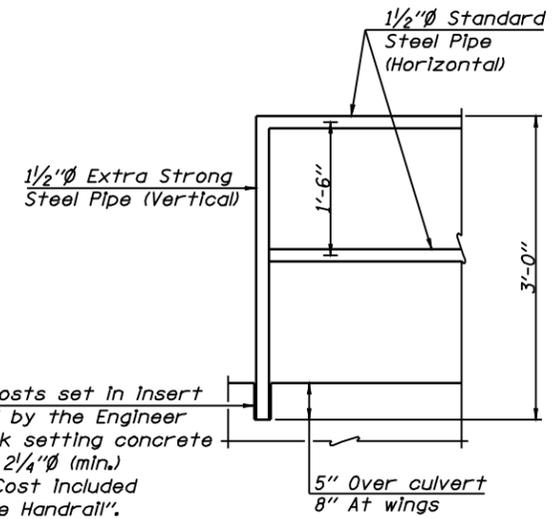
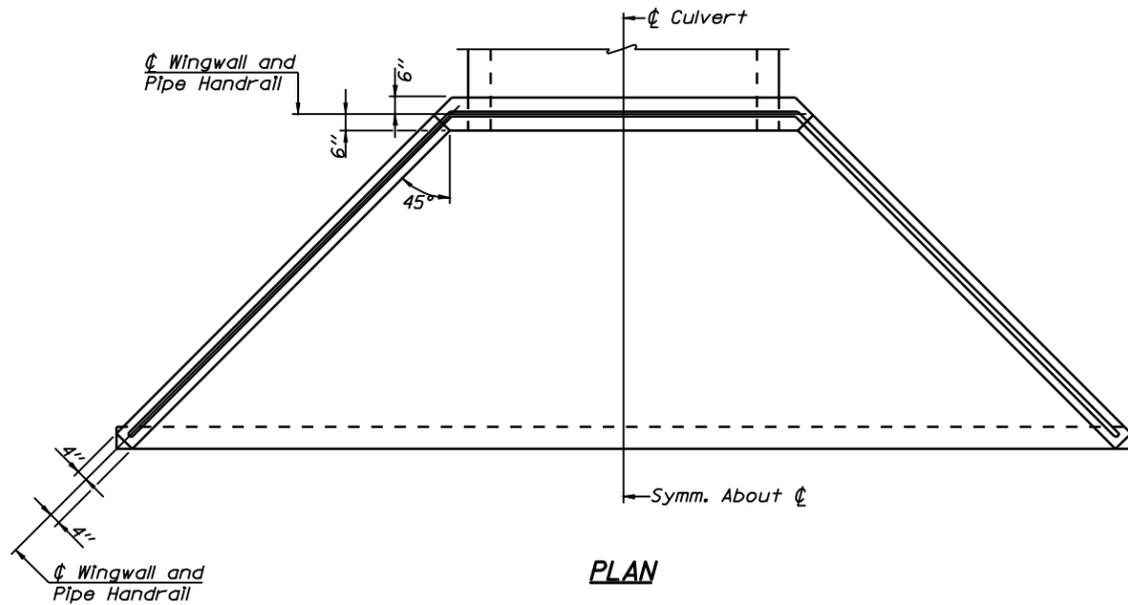


END ELEVATION



RAILING DETAIL

Anchor posts set in insert approved by the Engineer with quick setting concrete grout in 2 1/4" (min.) pocket. Cost Included with "Pipe Handrail".



PLAN

NOTES

Handrail shall conform to the requirements of Section 509 of the Standard Specifications.
 The Pipe Handrail shall be painted in accordance with Section 506 of the Standard Specifications. The finish coat shall match Munsell Glossy Color 5B 7/1 Gray.
 All steel pipe to be ASTM A53.
 The unit cost per lined foot for Pipe Handrail shall include furnishing and installing the posts, sleeves, fittings, grout, pipe, primer and paint.

BILL OF MATERIAL

Item	Unit	Quantity
Pipe Handrail	Foot	74

**PIPE HANDRAIL DETAILS
 ASH GROVE ROAD OVER
 WATERWAY NO. 1
 STA. 17+43.86
 SANGAMON COUNTY**



Allen Henderson & Associates, Inc.
 Civil and Structural Engineers Springfield, IL
 62708 Phone: (217)544-8033 IL Design Firm
 No. 184-001907

SHEET NO. 3
 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	64
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			