

1½"¢ Standard Steel Pipe (Horizontal) 1½"\$ Extra Strong Steel Pipe (Vertical) Anchor posts set in insert approved by the Engineer with quick setting concrete. grout in $2\frac{1}{4}$ " ϕ (min.) pocket. Cost included 5" Over culvert with Pipe Handrail. 8" At wings

RAILING DETAIL

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.

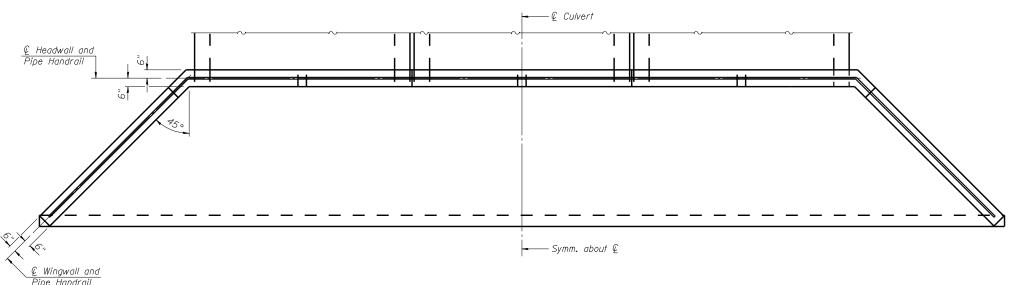
All steel pipe shall be ASTM A53.

The unit cost per lineal foot for Pipe Handrail shall include furnishing and installing the posts. sleeves, fittings, grout, pipe, primer and paint.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
ipe Handrail	Foot	70

END ELEVATION



PLAN

FILE NAME =	USER NAME = \$USER\$	DESIGNED - RJP	REVISED
\$FILEL\$		CHECKED - ADL	REVISED
	PLOT SCALE = \$SCALE\$	DRAWN - RJP	REVISED
	PLOT DATE = \$DATE\$	CHECKED - ADL	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** PIPE HANDRAIL DETAILS S.N. 034-2523 SHEET NO. 5 OF 6 SHEETS

COUNTY TOTAL SHEET NO.

HANCOCK 38 26

CONTRACT NO. 72B67 SECTION 510 120B-3 ILLINOIS FED. AID PROJECT

Klingner & Associates P.C.