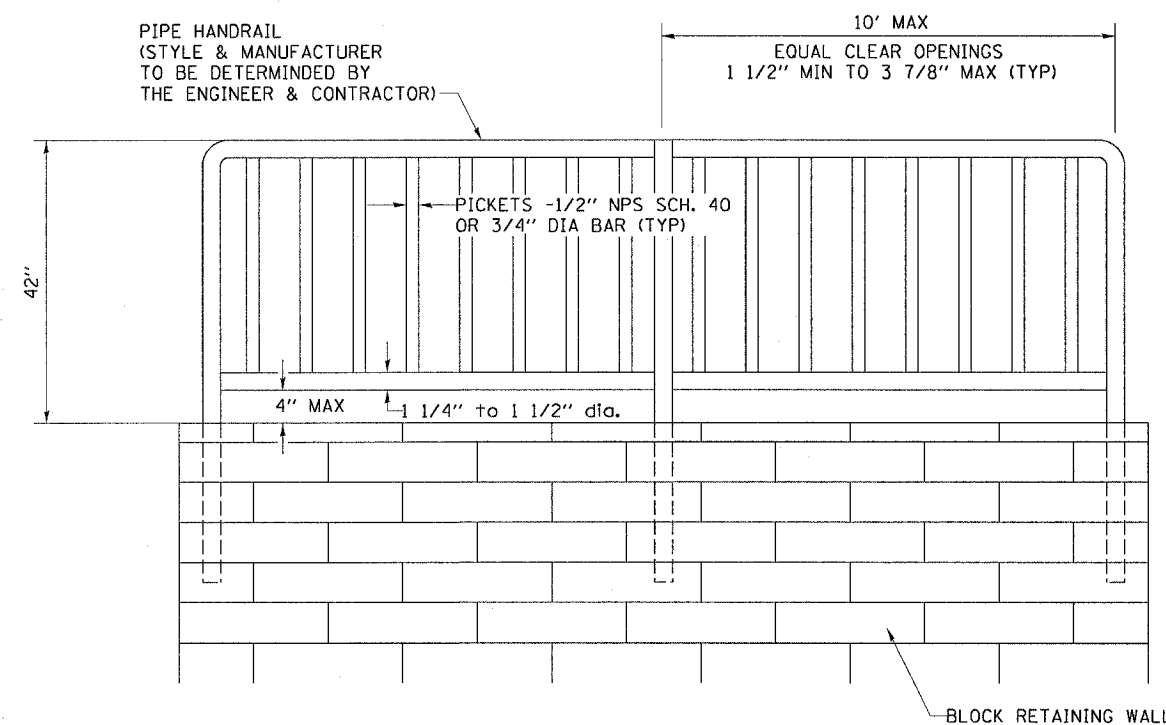
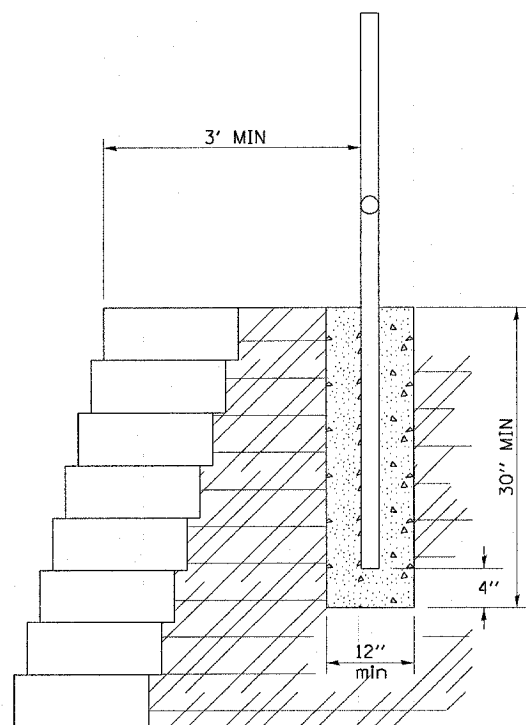


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	116RS-1	OGLE	593	219
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

PIPE HANDRAIL FOR RETAINING WALLS

RT. STA 472+50 TO LT STA 73+54.32 (COLUMBINE RD.)



NOTES:

GRIPPING SURFACES SHALL BE UNINTERRUPTED BY CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.

ENDS OF SAFETY RAIL SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO, THE GROUND

SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

SAFETY RAIL SHALL CONFORM TO SECTION 510 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED OR ALUMINUM ACCORDING TO ARTICLE 1006.27, 1006.30, OR 1006.34.

THE DIAMETER OF THE GRIPPING SURFACE OF THE HANDRAIL SHALL BE 1 1/4" TO 1 1/2".

CLASS SI CONCRETE AND #4 REBAR INCLUDED IN THE COST OF THE SAFETY RAIL.

SAFETY RAIL REQUIRED WHEN HIEGHT DIFFERENCE IS 4' OR GREATER.

DATE-TIME
 DGN-SPEC
 *REF
 *REF
 *REF
 *REF