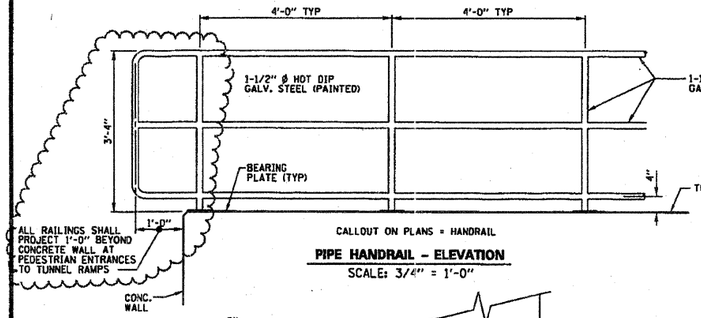
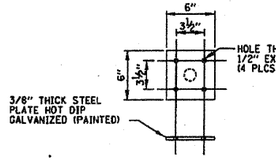
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00041-00-GS	DUPAGE	32	S15
UPRR MP: 27.48		UPRR SUB: GENEVA		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

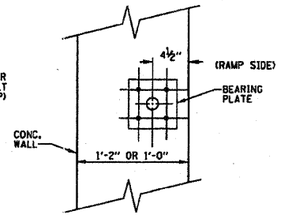
CONTRACT NO. 83977



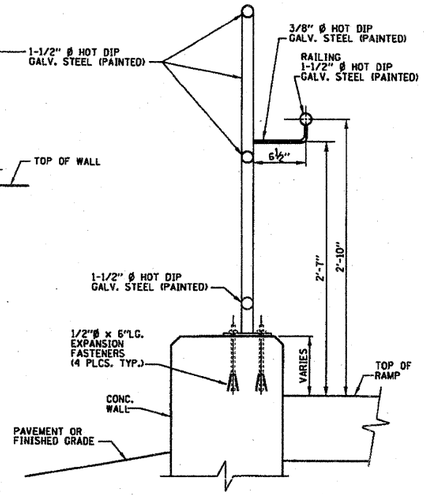
PIPE HANDRAIL - ELEVATION
SCALE: 3/4" = 1'-0"



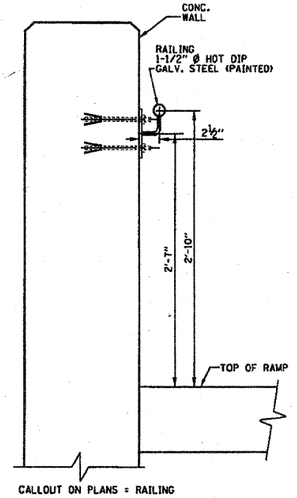
BEARING PLATE
SCALE: 1-1/2" = 1'-0"



PLAN
SCALE: 1-1/2" = 1'-0"



SECTION
SCALE: 1-1/2" = 1'-0"

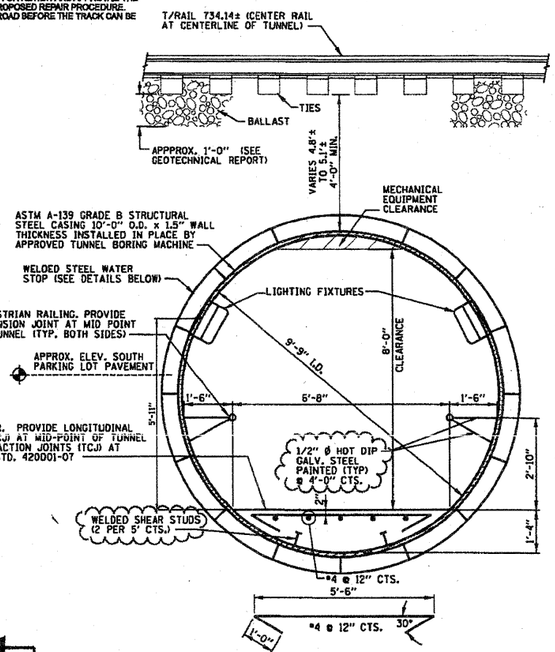


PEDESTRIAN RAILING
SCALE: 1-1/2" = 1'-0"

PIPE HANDRAIL AND PEDESTRIAN RAILING DETAILS
SCALE: 1" = 1'-0"

ALL RAILINGS AND AND HANDRAILS SHALL BE RUBBED SMOOTH AND FREE OF ANY SHARP EDGES OR PROTUSIONS. THE RAILINGS AND HANDRAILS SHALL THEN BE CLEANED AND FINISHED WITH A GLOSS EPOXY DARK BROWN PROTECTIVE COATING (TNEMEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS.

THE CONTRACTOR MUST MONITOR AND RECORD TOP OF RAIL ELEVATION, BALLAST MOVEMENT AND TRACK ALIGNMENT DURING INSTALLATION OF THE PROPOSED TUNNEL CASING PIPE. THE MOVEMENT SHALL BE WITHIN 1/4 OF AN INCH OR LESS PER UPRR REQUIREMENTS. DISPLACEMENT EXCEEDING THESE LIMITS MUST BE IMMEDIATELY REPORTED TO THE RAILROAD. ALL WORK ON THE PROJECT MUST STOP AND THE RAILROAD MAY TAKE ANY ACTION NECESSARY TO ENSURE SAFE PASSAGE OF TRAINS. THE CONTRACTOR MUST IMMEDIATELY SUBMIT CORRECTIVE ACTION PLANS TO THE RAILROAD FOR REVIEW AND APPROVAL. THE RAILROAD MUST REVIEW AND APPROVE THE PROPOSED REPAIR PROCEDURE. THE REPAIR MUST BE INSPECTED BY THE RAILROAD BEFORE THE TRACK CAN BE PLACED BACK IN SERVICE.

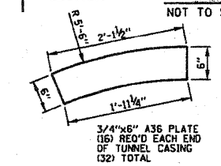


TYPICAL CROSS SECTION THROUGH STEEL TUNNEL (2 / S1)
SCALE: 1/2" = 1'-0"

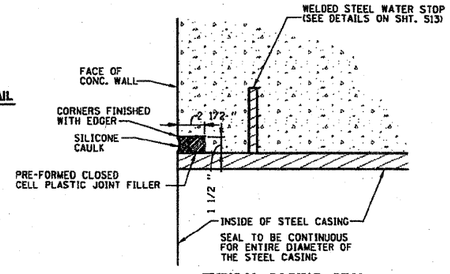
SECTION **TOP VIEW**
NOT TO SCALE

THE INSIDE OF THE COMPLETED STEEL TUNNEL CASING SHALL BE GROUND SMOOTH AND FREE OF ANY SHARP EDGES AND / OR PROTUSIONS. THE FINAL INTERIOR SURFACE OF THE STEEL TUNNEL CASING AND THE CONCRETE FLOOR SHALL BE BE FINISHED WITH AN EPOXY PROTECTIVE COATING (TNEMEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS.

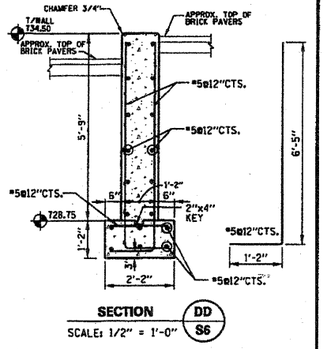
FLOOR FINISH TO BE PROVIDED WITH NON-SKID SURFACE.



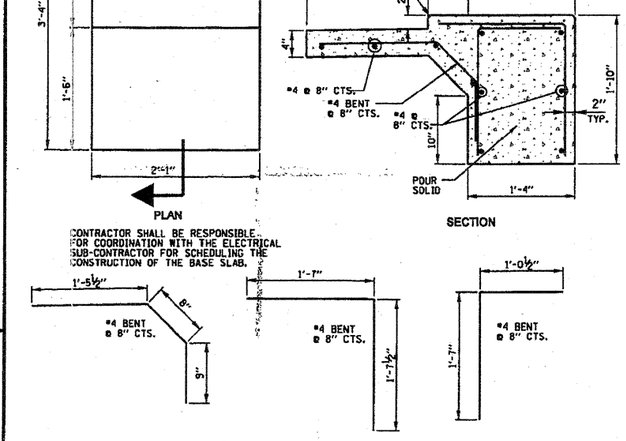
WELDED STEEL WATER STOP DETAIL
SCALE: 1" = 1'-0"



TYPICAL CASING SEAL
NOT TO SCALE



SECTION (DD / S6)
SCALE: 1/2" = 1'-0"

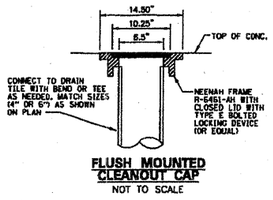


PLAN **SECTION**

BILL OF MATERIAL - ELECTRICAL CABINET CONCRETE BASE(SHT. S15)

DESCRIPTION	UNIT	QUANTITY
Concrete Structure	CU YD	1
Reinforcement Bars	POUND	25

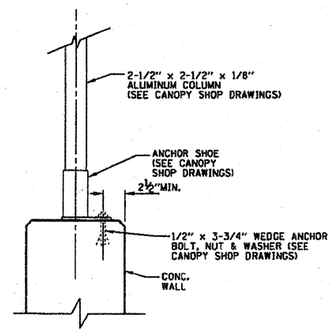
ELECTRICAL CABINET CONCRETE BASE
SCALE: 1" = 1'-0"



FLUSH MOUNTED CLEANOUT CAP
NOT TO SCALE

NOTES FOR DETAILS ON THIS SHEET:

1. ALL CONCRETE SHALL BE CLASS "SI".
2. ALL REBAR CLEARANCE DIMENSIONS ARE CLEAR COVER (NOT TO THE CENTER OF THE BAR).
3. ALL CONCRETE WALL SURFACES TO BE EXPOSED IN THE FINAL CONDITION SHALL HAVE VOIDS FILLED WITH NON-SHRINK GROUT AND BE RUBBED SMOOTH. EXPOSED WALL SURFACES SHALL THEN BE FINISHED WITH A GLOSS EPOXY LIGHT GRAY PROTECTIVE COATING (TNEMEC OR APPROV. EQUAL) ACCORDING TO THE SPECIFICATIONS TO A HEIGHT OF SIX INCHES BELOW THE FINISHED GRADE ELEVATION.
4. ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH EARTH BACKFILL AND / OR PAVEMENT SHALL BE PROVIDED WITH WATERPROOF TAR EPOXY PAINT COATING ON EXTERIOR OF CONCRETE WALLS TO A HEIGHT OF 6 INCHES BELOW THE FINISHED GRADE ELEVATION.
5. RAMP SURFACES AND TUNNEL FLOOR: MEMBRANE CURING SHALL BE APPLIED AS SPECIFIED IN SECTION 722 OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. W.R. MEADOWS VOCOMP-20 CURE & SEAL, OR APPROVED EQUAL, SHALL BE USED PER MANUFACTURER'S SPECIFICATIONS. FINISHED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH AT RIGHT ANGLES TO THE EDGES OF THE RAMP. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED PER I.D.O.T. STD. 420001-07 WHERE SHOWN ON THE PLANS.
6. SEE SHT. S1 FOR TUNNEL BILL OF MATERIALS.
   SEE SHT. S4 FOR SOUTH RAMP BILL OF MATERIALS.
   SEE SHT. S7 FOR NORTH RAMP BILL OF MATERIALS.



TYPICAL CANOPY ANCHORING
SCALE: 1-1/2" = 1'-0"

ALL PEDESTRIAN DIRECTIONAL SIGNS FOR THE TUNNEL AND RAMPS SHALL BE PER METRA STANDARDS

0 1 2 3 IN

N:\DGN\WF\WF451\SHEETS\STRUCTURAL\WF451-S15-DETAILS.DGN
4/9/2009 9:28:33 AM

This drawing shall not be used nor reproduced either wholly or in part except when authorized by the engineer- Rempe-Sharpe

ACTION	NAME
Design	J.B.
Drawn	D.B.E.
Checked	S.S.

No.	Date	Revisions	By

REMPE-SHARPE CONSULTING ENGINEERS
IL P.D.F. LICENSE NO. 184-000895
324 WEST STATE STREET – GENEVA, ILLINOIS 60134
Telephone (630) 232-0827 – Fax (630) 232-1629

PROJECT	SHEET TITLE	SCALE	PROJECT NO.	SHEET
PEDESTRIAN UNDERPASS AT METRA STATION WINFIELD, ILLINOIS	STRUCTURAL DETAILS	NOTED	WF-451	No. S15
			DATE: DEC. 19, 2008	Of S16