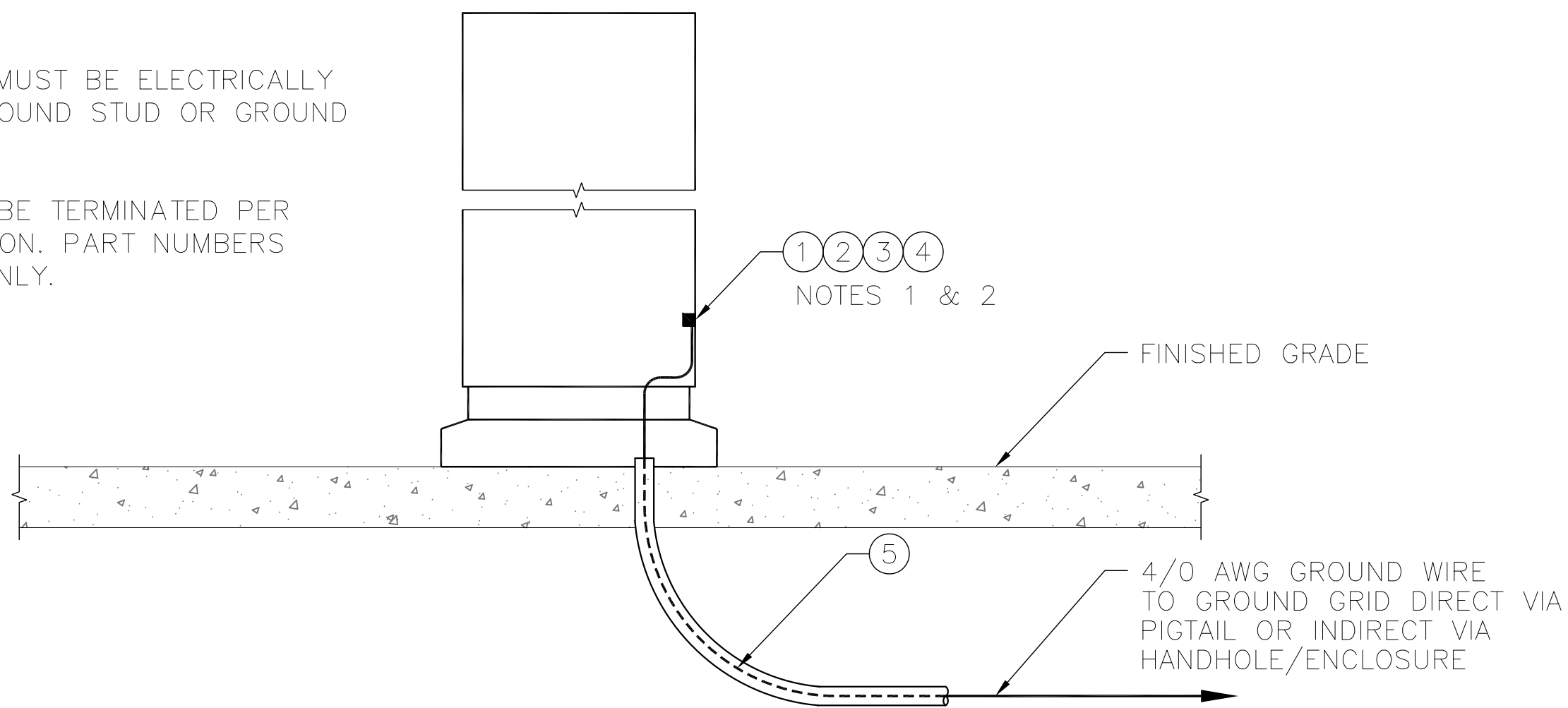
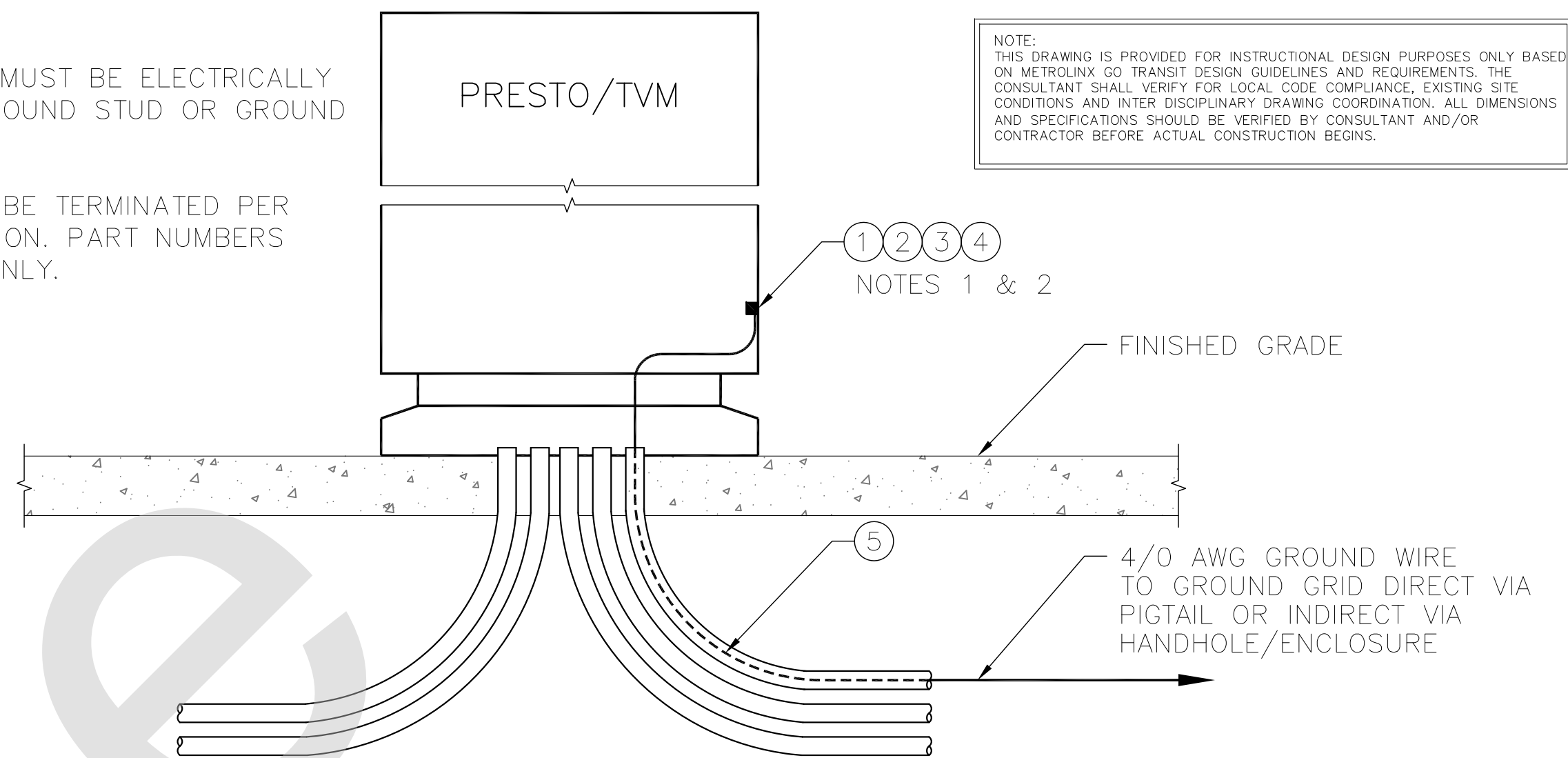


1. ALL METALLIC COMPONENTS MUST BE ELECTRICALLY CONNECTED TO INTERNAL GROUND STUD OR GROUND BAR BY MANUFACTURER.
2. GROUND CONDUCTOR SHALL BE TERMINATED PER MANUFACTURERS SPECIFICATION. PART NUMBERS PROVIDED FOR REFERENCE ONLY.



NOTES:

1. ALL METALLIC COMPONENTS MUST BE ELECTRICALLY CONNECTED TO INTERNAL GROUND STUD OR GROUND BAR BY MANUFACTURER.
2. GROUND CONDUCTOR SHALL BE TERMINATED PER MANUFACTURERS SPECIFICATION. PART NUMBERS PROVIDED FOR REFERENCE ONLY.

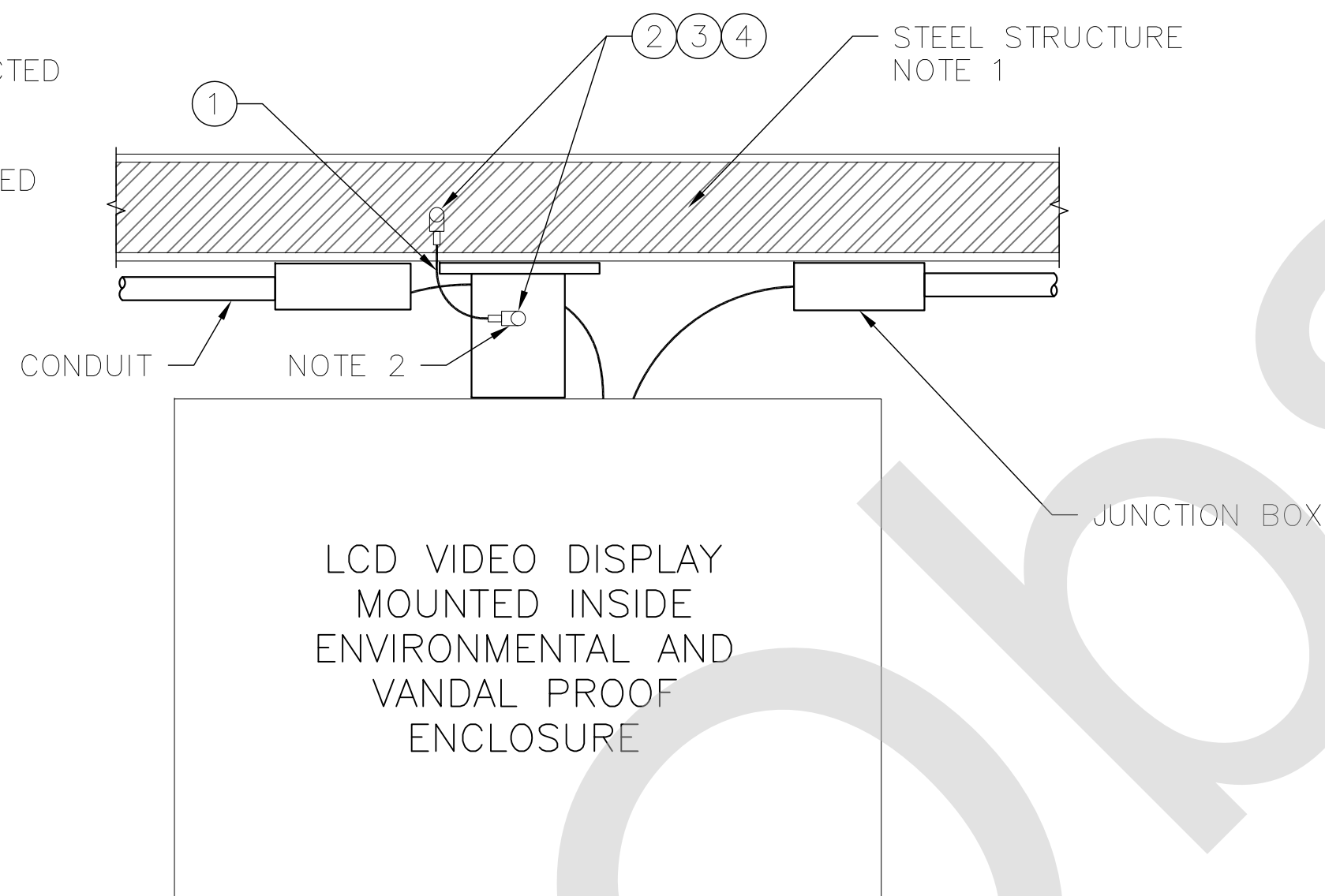


DETAIL 2 – GROUNDING CONNECTION TO PRESTO AND TICKET VENDING MACHINES

ITEM	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	BOLT, HEX, SS, 1/2"–13 NC x 1", A304/A316)	(GENERIC)
2	1	EA	WASHER, SPRING (LOCK), STAINLESS, 1/2", A304/A316	
3	2	EA	WASHER, FLAT, SS, 1/2", A304/A316	
4	1	EA	TERMINAL 1 HOLE FOR 4/0 WIRE	BURNDY: YA28L–BOX OR EQUIVALEN
5	PER DESIGN	FEET	27 mm CONDUIT	GENERIC

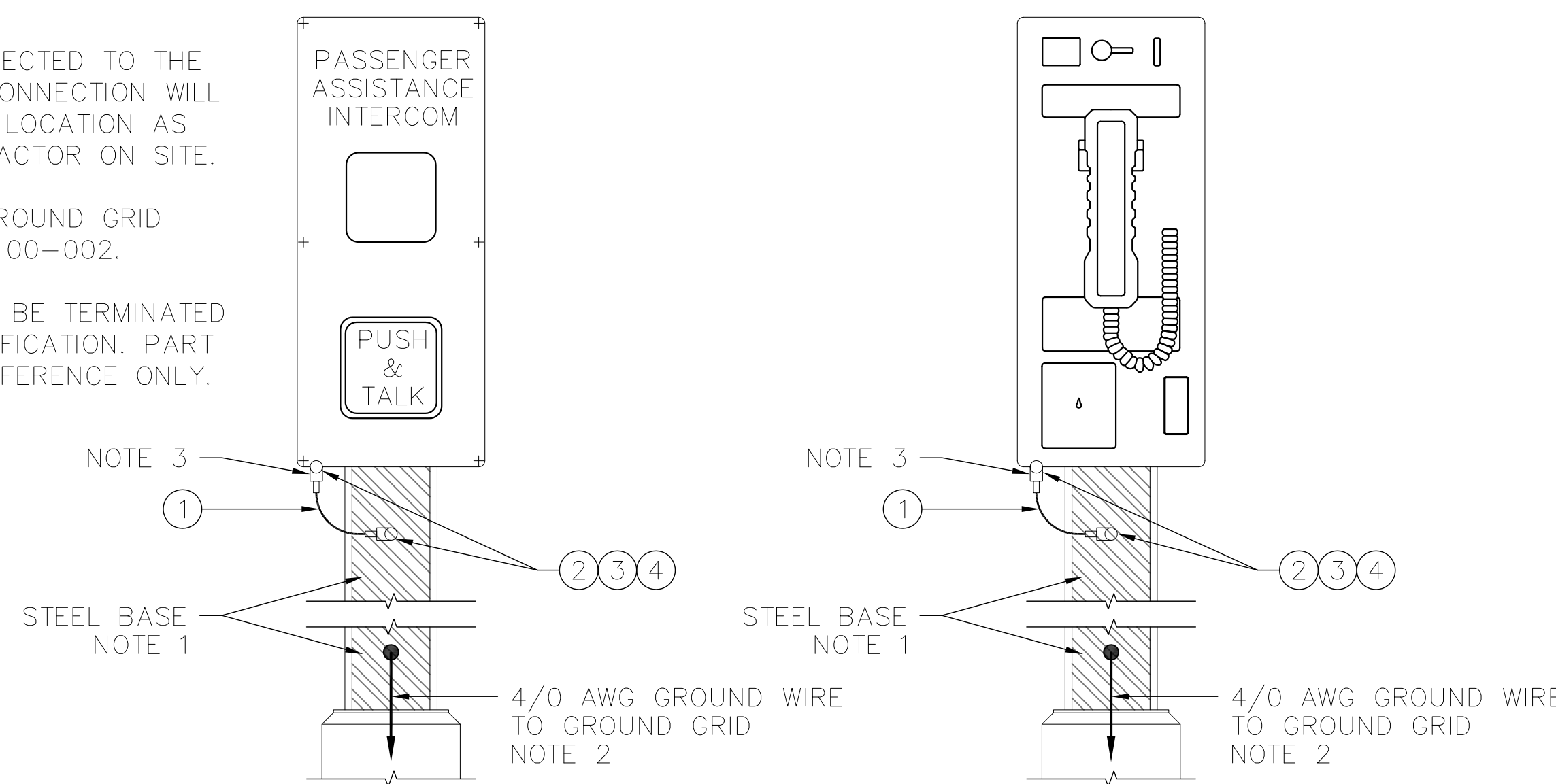
ITEM	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	BOLT, HEX, SS, 1/2"—13 NC x 1", A304/A316)	(GENERIC)
2	1	EA	WASHER, SPRING (LOCK), STAINLESS, 1/2", A304/A316	
3	2	EA	WASHER, FLAT, SS, 1/2", A304/A316	
4	1	EA	TERMINAL 1 HOLE FOR 4/0 WIRE	BURNDY: YA28L—BOX OR EQUIVALENT
5	PER DESIGN	FEET	27 mm CONDUIT	GENERIC

1. STEEL STRUCTURE MUST BE CONNECTED TO THE GROUNDING SYSTEM. THIS CONNECTION WILL BE MADE IN A CONVENIENT LOCATION AS DETERMINED BY THE CONTRACTOR ON SITE.
2. GROUND CONDUCTOR SHALL BE TERMINATED PER MANUFACTURERS SPECIFICATION. PART NUMBERS PROVIDED FOR REFERENCE ONLY.



NOTES:

1. STEEL BASE MUST BE CONNECTED TO THE GROUNDING SYSTEM. THIS CONNECTION WILL BE MADE IN A CONVENIENT LOCATION AS DETERMINED BY THE CONTRACTOR ON SITE.
2. THE CONNECTION TO THE GROUND GRID SHALL BE MADE PER MXS-100-002.
3. GROUND CONDUCTOR SHALL BE TERMINATED PER MANUFACTURERS SPECIFICATION. PART NUMBERS PROVIDED FOR REFERENCE ONLY.



DETAIL 4 – GROUNDING CONNECTION TO TELEPHONE (BELL) PEDESTALS

ITEM	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER & CAT. N
1	1	EA	FLEXIBLE COPPER BRAID	BURNDY: BD12 OR EQUIVALE
2	2	EA	BOLT, HEX, SS, 3/8"-16 x 1", A304/A316 W/NUT	(GENERIC)
3	2	EA	WASHER, SPRING (LOCK), STAINLESS, 3/8, A304/A316	
4	2	EA	WASHER, FLAT, SS, 3/8", A304/A316	

ITEM	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	FLEXIBLE COPPER BRAID	BURNDY: BD12 OR EQUIVALENT
2	2	EA	BOLT, HEX, SS, 3/8"–16 x 1", A304/A316 W/NUT	(GENERIC)
3	2	EA	WASHER, SPRING (LOCK), STAINLESS, 3/8, A304/A316	
4	2	EA	WASHER, FLAT, SS, 3/8", A304/A316	

REFERENCE DRAWINGS		ISSUE			REVISIONS		
		3	15/04/06	FINAL DESIGN			
		2	15/03/06	100% DESIGN			
		1	15/02/09	90% DESIGN			
		0	15/01/16	60% DESIGN			
DWG NO.	TITLE	REV.	DATE	ISSUED FOR	REV.	DATE	

DRAWN BY: SB 15/01/13	DESIGNED BY: SXF 15/01/13
CHECKED BY: CTG 15/01/16	APPROVED BY: ZBT 15/01/16
SCALE: NTS	FULL SIZE ONLY



TRACTION ELECTRIFICATION

GROUNDING AND BONDING

STANDARD INSTALLATION DESIGN DETAILS

ELECTRONIC EQUIPMENT ACCESSIBLE TO THE PUBLIC

CONTRACT NO. RQQ-2011-PP-032	DWG. NO. MXS-200-011	REV. 0	SHEET 19/26
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