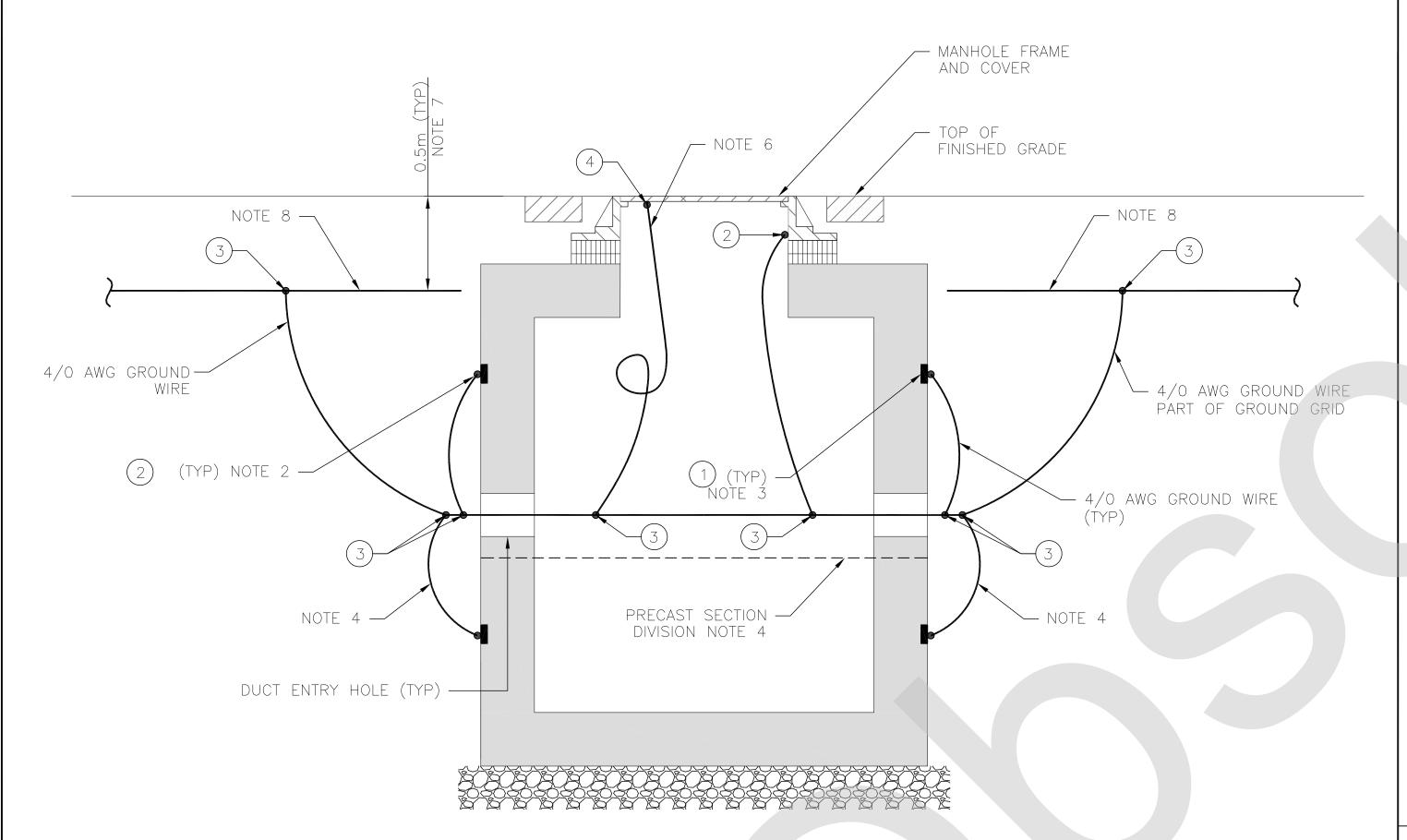
NOTES:

- 1. REFER TO MXS-100-001 DETAIL 1 FOR EXOTHERMIC WELD DETAILS.
- 2. GROUND CONDUCTORS SHALL BE WELDED TO GROUND PLATES CAST INTO THE MANHOLE SECTIONS.
- 3. REFER TO MXS-200-009 DETAIL 1 FOR GROUND PLATE DETAIL AND INTERCONNECTION TO MANHOLE REBAR.
- 4. APPLICABLE ONLY IF MANHOLE IS CAST IN SEPARATE SECTIONS.
 NOT REQUIRED IF MANHOLE IS SINGLE CASTING.
- 5. ALL METALLIC PARTS TO BE CONNECTED TO THE GROUND GRID.

- 6. COIL 1.5m ADDITIONAL GROUND CONDUCTOR TO ALLOW FOR MANHOLE COVER TO BE REMOVED.
- 7. THE DEPTH OF THE GROUND GRID WILL DEPEND ON LOCAL SITE CONDITIONS AND MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO INSTALLATION. 0.5M IS A TYPICAL VALUE THAT HAS BEEN PROVIDED FOR REFERENCE.
- 8. GROUND WIRE CONTINUOUS AROUND MANHOLE IN PLAN VIEW.



NOTE:
THIS DRAWING IS PROVIDED FOR INSTRUCTIONAL DESIGN PURPOSES ONLY BASED
ON METROLINX GO TRANSIT DESIGN GUIDELINES AND REQUIREMENTS. THE
CONSULTANT SHALL VERIFY FOR LOCAL CODE COMPLIANCE, EXISTING SITE
CONDITIONS AND INTER DISCIPLINARY DRAWING COORDINATION. ALL DIMENSIONS
AND SPECIFICATIONS SHOULD BE VERIFIED BY CONSULTANT AND/OR
CONTRACTOR BEFORE ACTUAL CONSTRUCTION BEGINS.

UNIT

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ITEM

QTY

MIN 2

MIN 3

MIN 6

DETAIL 1 - MANHOLE GROUNDING

DESCRIPTION

CAST GROUND PLATE

VERTICAL WIRE TAP TO VERTICAL PLATE EXOTHERMIC CONNECTION

4/0 WIRE TAP TO 4/0 WIRE RUN EXOTHERMIC CONNECTION

DATE	4	1	EA	HORIZONTAL WIRE TAP TO HORIZONTAL PLATE EXOTHERMIC CONNECTION BURND							Y: B-6114 OR EQUIVALENT		10
PLOTTED I		REFERENCE DRAWINGS ISSUE				JE	REVISIONS			DRAWN BY: DESIGNE SB S2 14/12/11 14/1		-	
EP.					3	15/04/06 FINAL DESIGN					CHECKED BY:	14/12 APPROVE ZB	D BY:
3Y: PAULRI :-PGDC01\D					1	15/03/06 100% DESIGN 15/02/09 90% DESIGN					15/01/16 SCALE: NTS	15/01 FULL SIZE	/16
)TTED BY: E: \\FILE-P(0	15/01/16 60% DESIGN					JONEL. IVIJ	TOLL SIZE	
P.C.	DWG NO.		TITLE		NO.	DATE IS	SSUED FOR	REV.	DATE				

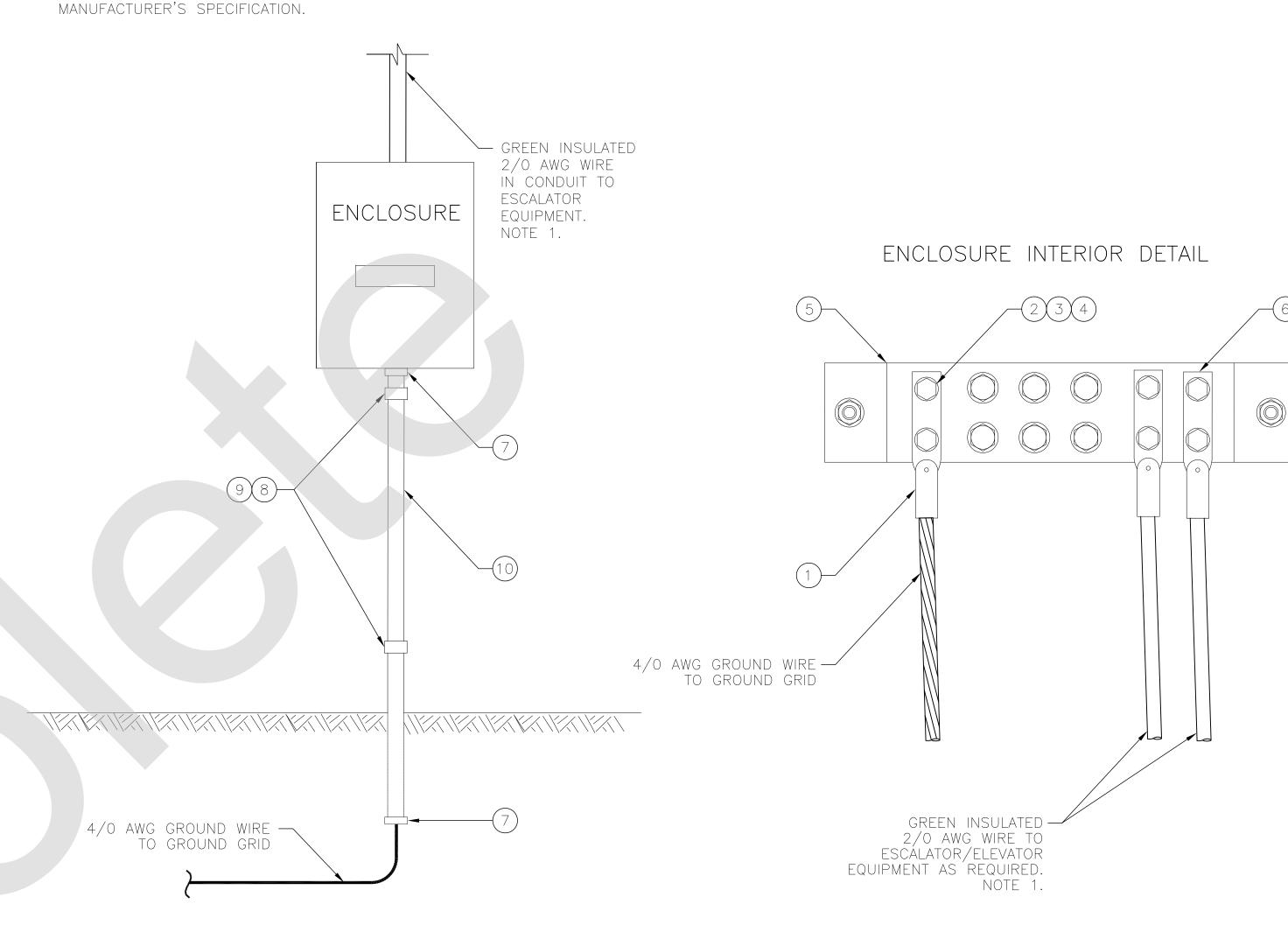
NOTES:

ITEM

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UNIT

1. CONNECT GROUND CONDUCTORS TO EQUIPMENT AS REQUIRED BY THE



<u>DETAIL 2 — GROUNDING CONNECTION TO WALL MOUNTED ESCALATOR AND ELEVATOR CONTROL CABINETS</u>

DESCRIPTION

	1	1	EA	COMPRESSION TERMINAL, 2 HOLE, FOR 4/0 WIRE	BURNDY: YGA28-2N OR EQUIVALENT
	2	2	EA	DURIUM BOLT 1/2"-13 X 1", W/NUT	BURNDY: 50X100 HEB BOX OR EQUIVALENT
	3	4	EA	DURIUM FLAT WASHER 1/2"	BURNDY: 50 FW BOX OR EQUIVALENT
	4	4	EA	DURIUM SPRING WASHER 1/2"	BURNDY: 50 SW BOX OR EQUIVALENT
	5	1	EA	COPPER GROUND BUS 6mm X 50mm X 300mm (1/4" X 2 X 12") MIN	(GENERIC)
MANUFACTURER & CAT. NO.	6	PER DESIGN	EA	COMPRESSION TERMINAL, 2 HOLE, FOR 2/0 WIRE AND DURIM BOLT NUT AND WASHERS	BURNDY: YGA26-2N OR EQUIVALENT
ERICO: B1642Q OR EQUIVALENT	7	2	EA	BUSHING	(GENERIC)
BURNDY: B-8718 OR EQUIVALENT	8	2	EA	ANCHOR, SS 304, 316	HILTI: KBS 1/4"X2-1/4" OR EQUIVALENT
BURNDY: B-241 OR EQUIVALENT	9	2	EA	27mm CONDUIT CLAMP 1—HOLE	T&B: 1278 OR EQUIVALENT
BURNDY: B-6114 OR EQUIVALENT 10		PER DESIGN	N/A	27mm CONDUIT	(GENERIC)

PARSONS BRINCKERHOFF

METROLIN

TRACTION ELECTRIFICATION GROUNDING AND BONDING

STANDARD INSTALLATION DESIGN DETAILS MANHOLES, ELEVATORS AND ESCALATORS

CONTRACT NO. DWG. NO. REV. SHEET RQQ-2011-PP-032 MXS-200-004 O 12/26

MANUFACTURER & CAT. NO.