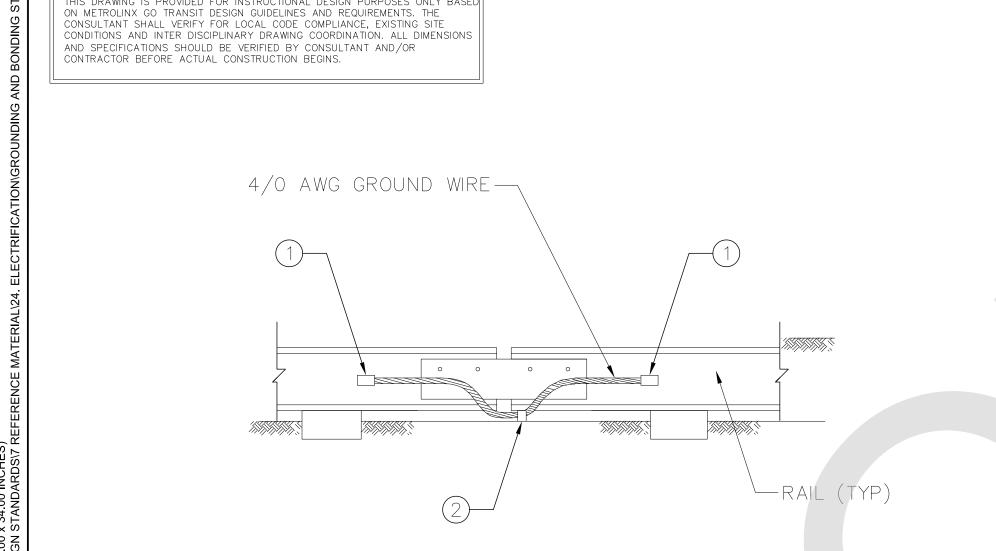


### DETAIL 1 — GROUND CONDUCTOR UNDER TRACK CROSSING



THIS DRAWING IS PROVIDED FOR INSTRUCTIONAL DESIGN PURPOSES ONLY BASED

ITEM

DWG NO.

QTY

UNIT

## DETAIL 2 - RUNNING RAILS SPLICE BONDING

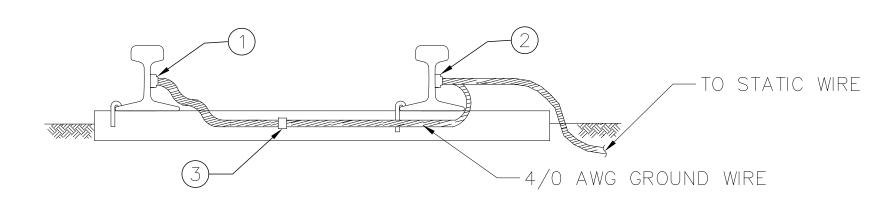
DESCRIPTION

015/04/ AM MA	1	2	EA	WIRE TO RAIL EXC	THERMIC CO	NECTION	ERICO: STR-2Q OF	EQU	VALENT	8	PER DESIGN	N/A	27m	m CONDUIT
DATE: 20 PROGR	2	1	EA	HAMMER	ON RAIL CLIF	)	ERICO: SBA252S0 C	R EQI	JIVALENT	9	2	EA	E	BUSHING
PLOTTED DATE: 2015/04/ \GO\CI\07 PROGRAM MA		REFE	RENCE DI	RAWINGS		IS	SUE			REVIS	SIONS		DRAWN BY: RCW,	DESIGNED BY: \$XF
Ë													14/12/11 CHECKED BY:	14/12/11 APPROVED BY:
TTED BY: PAULRI : \\FILE-PGDC01\DE					<u> </u>	FINAL DESIGN 100% DESIGN							CTG 15/01/16	ZBT 15/01/16
ED BY: FILE-PG					1 15/02/09	90% DESIGN							SCALE: NTS	FULL SIZE ONLY
PLOTTE FILE: \\F	DWG NO.		TITLE		0 15/01/16 NO. DATE	60% DESIGN	ISSUED FOR	REV.	DATE					

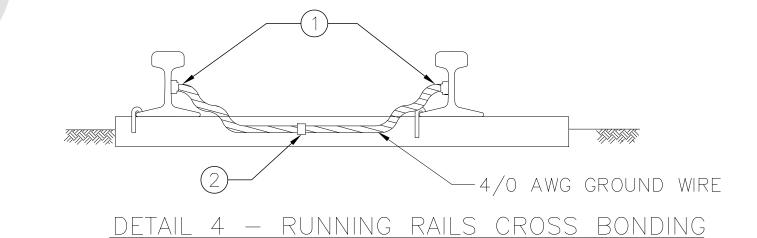
MANUFACTURER & CAT. NO.

NOTES:

1. THIS CROSS BONDING CONFIGURATION SHALL NOT BE APPLIED WHERE TRACK CIRCUITS ARE UTILIZED FOR TRAIN DETECTION PURPOSES.



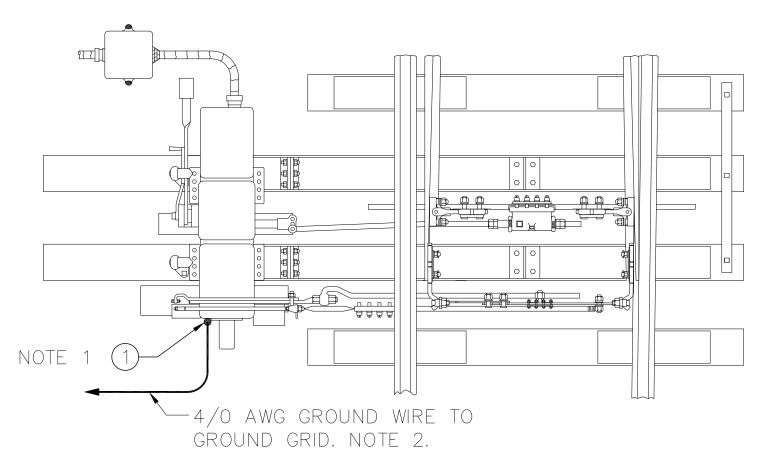
ITEM	QTY	UNIT	DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	WIRE TO RAIL EXOTHERMIC CONNECTION	ERICO: STR-2Q OR EQUIVALENT
2	1	EA	WIRE TO RAIL EXOTHERMIC CONNECTION	ERICO: SPR-2Q OR EQUIVALENT
3	1	EA	RAIL TIE CABLE CLIP	GENERIC



/	ITEM	QTY	UNIT	DESCRIPTION	MANUFACTURER & CAT. NO.
	1	2	EA	WIRE TO RAIL EXOTHERMIC CONNECTION	ERICO: STR-2Q OR EQUIVALENT
	2	1	EA	RAIL TIE CABLE CLIP	GENERIC

#### NOTES:

- 1. 4/0 GROUND WIRE SHALL BE TERMINATED TO GROUND STUD PROVIDED BY SWITCH MACHINE MANUFACTURER. EXACT PART NUMBER FOR TERMINAL MUST BE COORDINATED WITH PROVIDED GROUND STUD. TYPICAL PART NUMBER PROVIDED FOR REFERENCE ONLY.
- 2. 4/0 GROUND WIRE CONNECTED TO GROUND GRID WHEN SWITCH MACHINE INSTALLED IN STATION. FOR OTHER SWITCHES GROUND WIRE MUST BE CONNECTED TO STATIC WIRE.
- 3. ADDITIONAL GROUND CONNECTIONS MAY BE REQUIRED. MANUFACTURES SPECIFICATION MUST BE FOLLOWED FOR COMPLETE INSTALLATION.



DETAIL 5- SWITCH MACHINE

ITEM	QTY	UNIT	DESCRIPTION	MANUFACTURER & CAT. NO.
1	1	EA	TERMINAL 1 HOLE FOR 4/0 WIRE	BURNDY: YA28L-BOX OR EQUIVALENT

# PARSONS BRINCKERHOFF **METROLINX**

TRACTION ELECTRIFICATION GROUNDING AND BONDING STANDARD INSTALLATION DESIGN DETAILS ABOVE-GRADE RAILWAY INFRASTRUCTURE

CONTRACT NO. DWG. NO. REV. SHEET 13/26 MXS-200-005 RQQ-2011-PP-032

## DETAIL 3 - SNOW MELTING EQUIPMENT, BLOWERS

NOTES:

1. MAIN DUCT MUST BE ISOLATED FROM RAILS.

— BLOWER

45 (TYP)

-4/0 AWG GROUND WIRE

TO GROUND GRID

MAIN DUCT

-#2 JUMPER

(TYP)

- FOUNDATION

				,		
ITEM	ITEM QTY UNIT		MATERIAL DESCRIPTION	MANUFACTURER & CAT. NO.		
1			VERTICAL CABLE TO VERTICAL STEEL SURFACE EXOTHERMIC CONNECTION	BURNDY: B-8718 OR EQUIVALENT		
2	2/JUMPER	EA	BOLT, HEX, SS, 1/2"-13 NC x 1", A304/A316			
3	2/JUMPER EA		WASHER, SPRING (LOCK), STAINLESS, 1/2", A304/A316	(GENERIC)		
4	4/JUMPER	EA	WASHER, FLAT, SS, 1/2", A304/A316			
5	2/JUMPER	EA	TERMINAL 1 HOLE FOR #2 WIRE	BURNDY: YA2CL6-BOX OR EQUIVALENT		
6	2	EA	ANCHOR, $1\frac{1}{4}$ ", SS 304,316	HILTI: KB3 1/4" X 2-1/4" OR EQUIVALENT		
7	2	EA	27mm CONDUIT CLAMP 1-HOLE	T&B: 1278 OR EQUIVALENT		
8	PER DESIGN	N/A	27mm CONDUIT	(GENERIC)		
				T (GLINLING)		