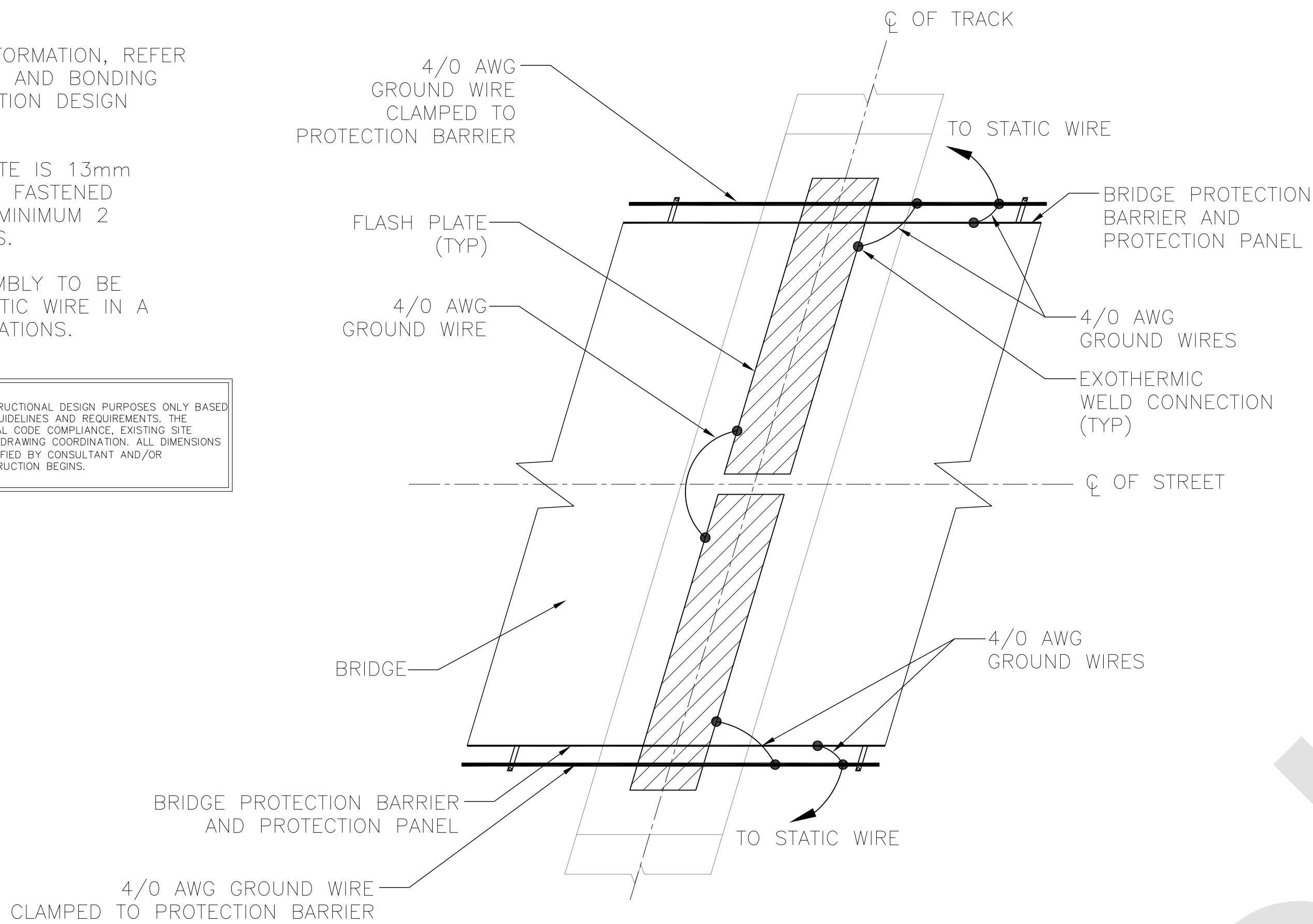


NOTES:

1. FOR ADDITIONAL INFORMATION, REFER TO THE GROUNDING AND BONDING STANDARD INSTALLATION DESIGN DETAILS.
2. TYPICAL FLASH PLATE IS 13mm GALVANIZED STEEL, FASTENED TO SURFACE WITH MINIMUM 2 CONCRETE ANCHORS.
3. FLASH PLATE ASSEMBLY TO BE CONNECTED TO STATIC WIRE IN A MINIMUM OF 2 LOCATIONS.

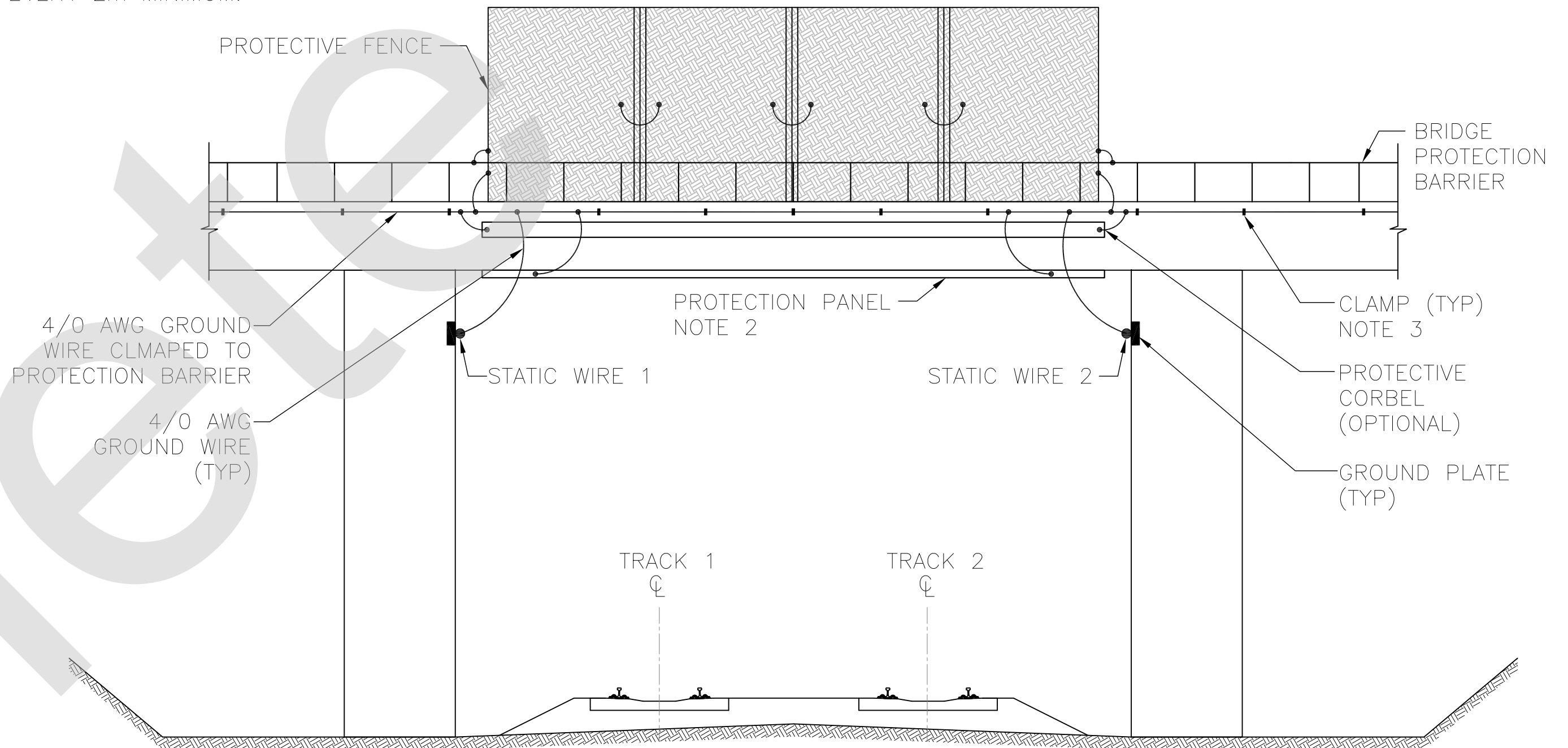
NOTE:
THIS DRAWING IS PROVIDED FOR INSTRUCTIONAL DESIGN PURPOSES ONLY BASED ON METROLINX GO TRANSIT DESIGN GUIDELINES AND REQUIREMENTS. THE CONSULTANT SHALL VERIFY FOR LOCAL CODE COMPLIANCE, EXISTING SITE CONDITIONS AND INTER DISCIPLINARY DRAWING COORDINATION. ALL DIMENSIONS AND SPECIFICATIONS SHOULD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



DETAIL 1 – FLASH PLATE GROUNDING

NOTES:

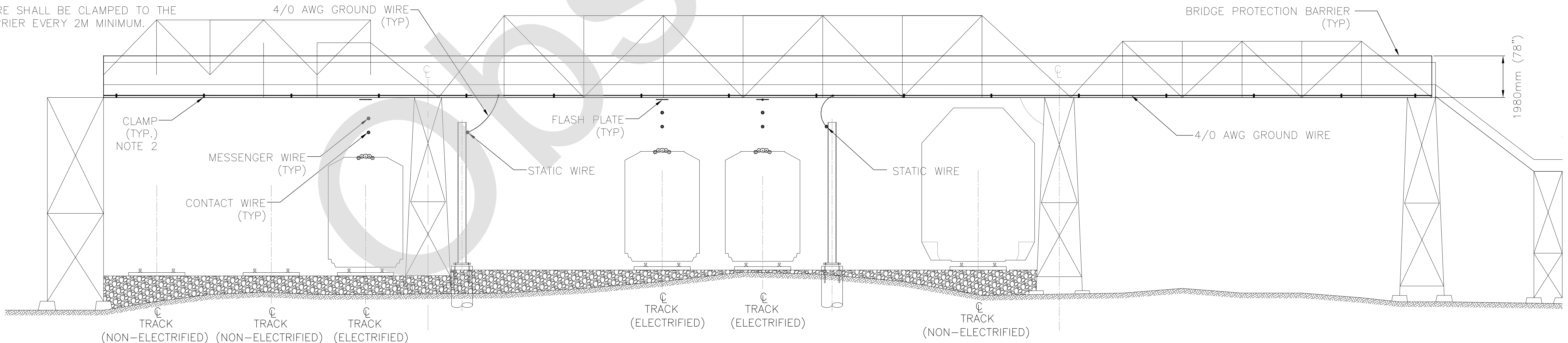
1. FOR ADDITIONAL INFORMATION, REFER TO THE GROUNDING AND BONDING STANDARD INSTALLATION DESIGN DETAILS.
2. GALVANIZED STEEL STRIP OR ANGLE SECTION SHALL BE INSTALLED ABOVE THE OVERHEAD LINE AT EACH BRIDGE FACE, IF THE BRIDGE SOFFIT IS WITHIN THE PANTOGRAPH ZONE. WHEN THE VERTICAL CLEARANCE BETWEEN OCS CONDUCTORS AND CONCRETE OVERPASSES IS LESS THAN 1M (3'-3") FEET, PROTECTION PANELS (FLASH PLATES) SHALL BE INSTALLED ABOVE THE OCS, ATTACHED TO THE UNDERSIDE OF THE STRUCTURE, AND INTERCONNECTED TO THE STATIC WIRE AT NOT LESS THAN TWO LOCATIONS.
3. THE GROUND WIRE SHALL BE CLAMPED TO THE PROTECTION BARRIER EVERY 2m MINIMUM.
4. FOR DETAILS OF CONNECTION TO BRIDGE BARRIER REFER TO MXS-200-004 DETAIL 4.
5. FOR DETAILS OF GROUND PLATE CONNECTION REFER TO MXS-200-009 DETAIL 1.
6. FOR EXOTHERMIC CONNECTION DETAIL REFER TO MXS-100-003.
7. FOR EXISTING STRUCTURES, OR WHERE A GROUND PLATE CANNOT BE USED, A GROUND BAR CAN BE MOUNTED ON THE CONCRETE COLUMN AND CONNECTED PER MXS-200-001 DETAIL 2. ALTERNATIVELY, AN ENCLOSURE WITH A GROUND BAR INSIDE CAN BE MOUNTED ON THE CONCRETE COLUMN AND CONNECTED AS SHOWN ON MXD-100-002.



DETAIL 2 – TYPICAL OVERHEAD CONCRETE STRUCTURE

NOTES:

1. FOR ADDITIONAL INFORMATION, REFER TO THE GROUNDING AND BONDING STANDARD INSTALLATION DESIGN DETAILS.
2. THE GROUND WIRE SHALL BE CLAMPED TO THE PROTECTION BARRIER EVERY 2M MINIMUM.



DETAIL 3 – TYPICAL OVERHEAD STEEL STRUCTURE

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

DRAWN BY: RCW 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	

**PARSONS
BRINCKERHOFF**



TRACTION ELECTRIFICATION
GROUNDING AND BONDING
DIRECTIVE INSTALLATION DESIGN DETAILS
TYPICAL OVERHEAD STRUCTURE

CONTRACT NO. RQ-2011-PP-032	DWG. NO. MXD-100-001	REV. 0	SHEET 21/26
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