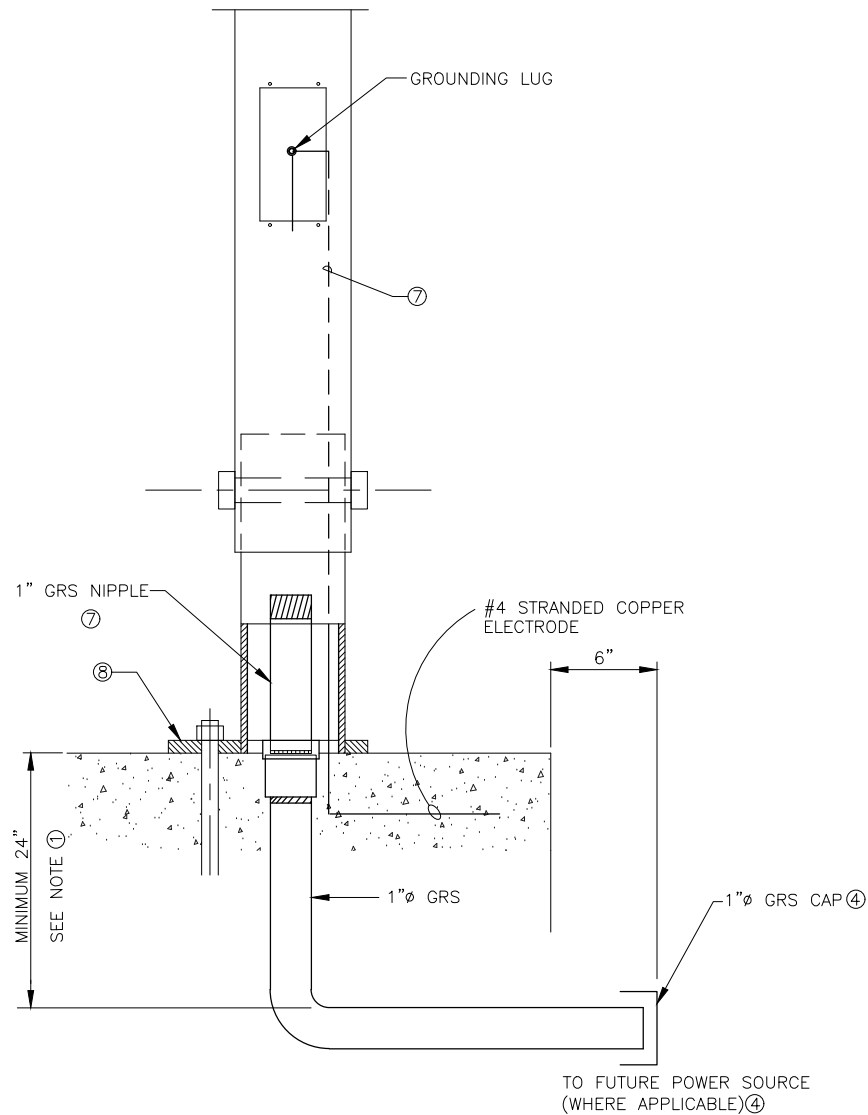
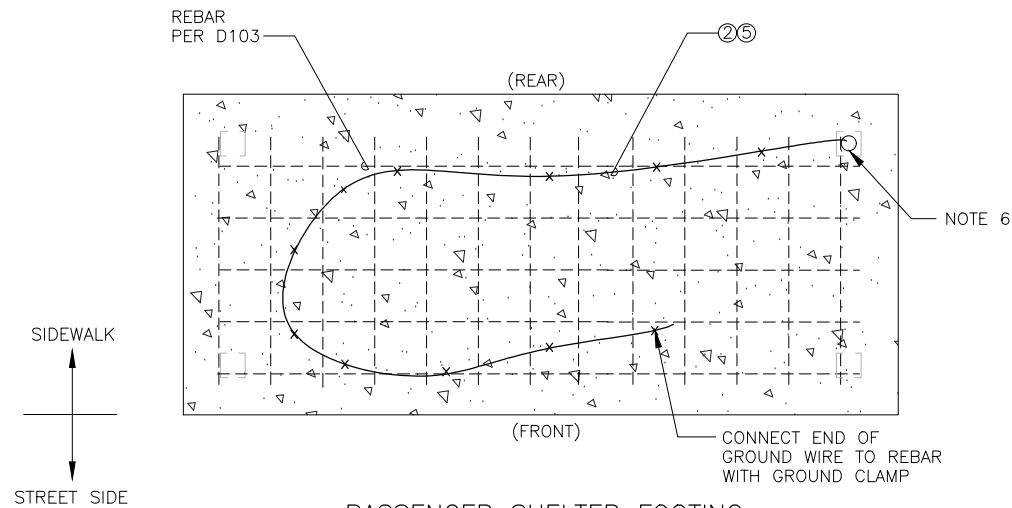


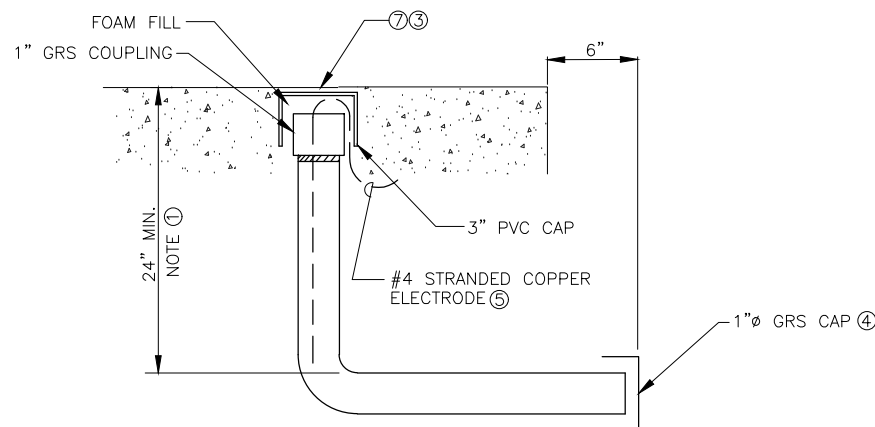
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 PLOTTED: May 19, 2022 9:09:59am By: dbernett
 XREFS: KCMTD-BORDER-ELEC.dwg IMAGES:



INTERNAL SHELTER SOLAR LIGHTING
SCALE: NTS



PASSENGER SHELTER FOOTING
(SEE DWGS D101 & D103 FOR SHELTER FOOTING DETAILS AND DIMENSIONS)



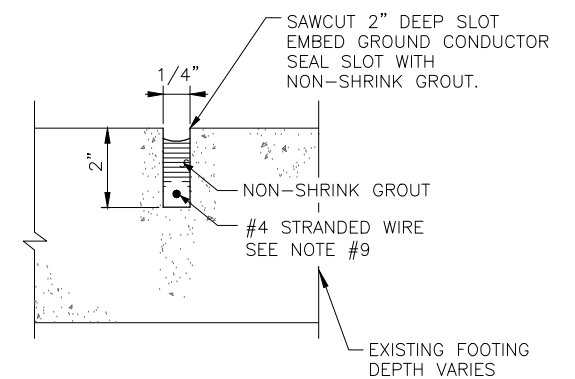
DETAIL "1"
INTERNAL SHELTER LIGHTING
BURIED CONDUIT AND GROUNDING ELECTRODE
SCALE: NTS

GENERAL NOTES:

- THIS CONDUIT/GROUNDING ELECTRODE DESIGN IS FOR BUS STOPS WHERE HARD-WIRE ELECTRICAL CONNECTION IS NOT READILY AVAILABLE. IT ALLOWS FOR FUTURE HARD-WIRE CONNECTION FOR 110V SHELTER LIGHTING AND/OR GROUNDING FOR A SOLAR SHELTER LIGHTING SYSTEM.

CONSTRUCTION NOTES:

- CONDUIT SHALL BE INSTALLED 24" BELOW FINISHED GRADE.
- FOR SHELTER GROUNDING, TIE 25 FEET OF #4 STRANDED COPPER GROUNDING ELECTRODE TO THE SHELTER FOUNDATION REBARS WITH TIE WIRES. LEAVE 2 FEET AT THE END FOR ATTACHMENT TO THE GROUNDING LUG ON THE SHELTER LEG. PROVIDE ONE HOLE COPPER LUG SHORT BARREL THOMAS & BETTS #54130 ON END OF GROUND WIRE. SEE DETAIL "1" AND NOTE 3 BELOW. (REFER TO NOTE 11 ON D101 IF SHELTER FOOTING IS DESIGNED FOR BOTH INTERIM STANDARD SHELTER AND FUTURE RAPIDRIDE SHELTER).
- PLACE THE 2 FT. #4 13 STRANDED BARE COPPER GROUND ELECTRODE INTO THE 1" DIA GRS CONDUIT AS SHOWN IN DETAIL "1". SECURE 1" GRS COUPLING IN PLACE. SEAL THE GRS CONDUIT/COUPLING WITH DUCT TAPE. CAP THE ASSEMBLY WITH A 3" PVC CAP AND FILL VOID WITH SPRAY-ON FOAM. TOP OF PVC CAP SHALL BE 1/4" BELOW THE FINISHED CONCRETE GRADE.
- IF NO SPECIFIED CONNECTION TO A POWER SOURCE, THE 1" GRS CONDUIT SHALL BE EXTENDED 6 INCHES BEYOND THE EDGE OF SHELTER FOUNDATION AND CAPPED.
- THE #4 13 STRANDED BARE COPPER GROUND ELECTRODE SHALL BE ENCLOSED BY AT LEAST 2" OF CONCRETE IN ACCORDANCE WITH NEC 250.52 (A) (3).
- FOR STANDARD METRO SHELTERS, ELECTRICAL LEG SHALL BE AT THE REAR RIGHT CORNER. FOR RAPID RIDE SHELTERS, ELECTRICAL LEG SHALL BE AT THE REAR LEFT CORNER. (LOOKING INTO SHELTER) SEE TABLE ON DWG. D101 AND D103 FOR EXACT LOCATIONS OF THE ELECTRICAL LEG FOR VARIOUS FOOTING TYPES.
- (INFORMATION FOR METRO'S SHELTER CREW: PRIOR TO INSTALLING SHELTER WITH A SOLAR LIGHTING SYSTEM, CHIP AWAY THE 1/4" CONCRETE COVER AND REMOVE THE 3" PVC CAP. PULL OUT THE #4 COPPER ELECTRODE. CONNECT THE ELECTRODE TO THE SHELTER LEG VIA A GROUNDING LUG. SEAL THE 1" DIA GRS WITH A WATER-TIGHT PLUG FOR FUTURE USE.)
- ALL WORK ABOVE FINISHED GRADE IS BY OTHERS.
- SAW 8"x2"x1/4" GROOVE IN EXISTING SHELTER FOOTING. CLEAN THE GROOVE AND EMBED GROUND CONDUCTOR. LEAVING 6" EXPOSED ABOVE SURFACE FILL GROOVE WITH NON-SHRINK GROUT.



SOLAR SHELTER FOOTING RETROFIT
SECTION
SCALE: 3/4"=1'-0"

KCMT 2021-2022 STANDARD DETAILS				
No.	REVISION	BY	APP'D	DATE



DESIGNED: S. ANOD	APPROVED: P. ENG
DRAWN:	
S. DO CHECKED:	PROJECT NO: -
CHECKED: C. REYNOLDS	CONTRACT NO: -



METRO TRANSIT CAPITAL DIVISION TRANSIT PASSENGER FACILITIES - IMPROVEMENTS		DATE: 12/2021
INTERNAL SOLAR SHELTER LIGHTING ELECTRICAL DETAILS		DRAWING NO: D111
		SHEET NO. OF 19 20