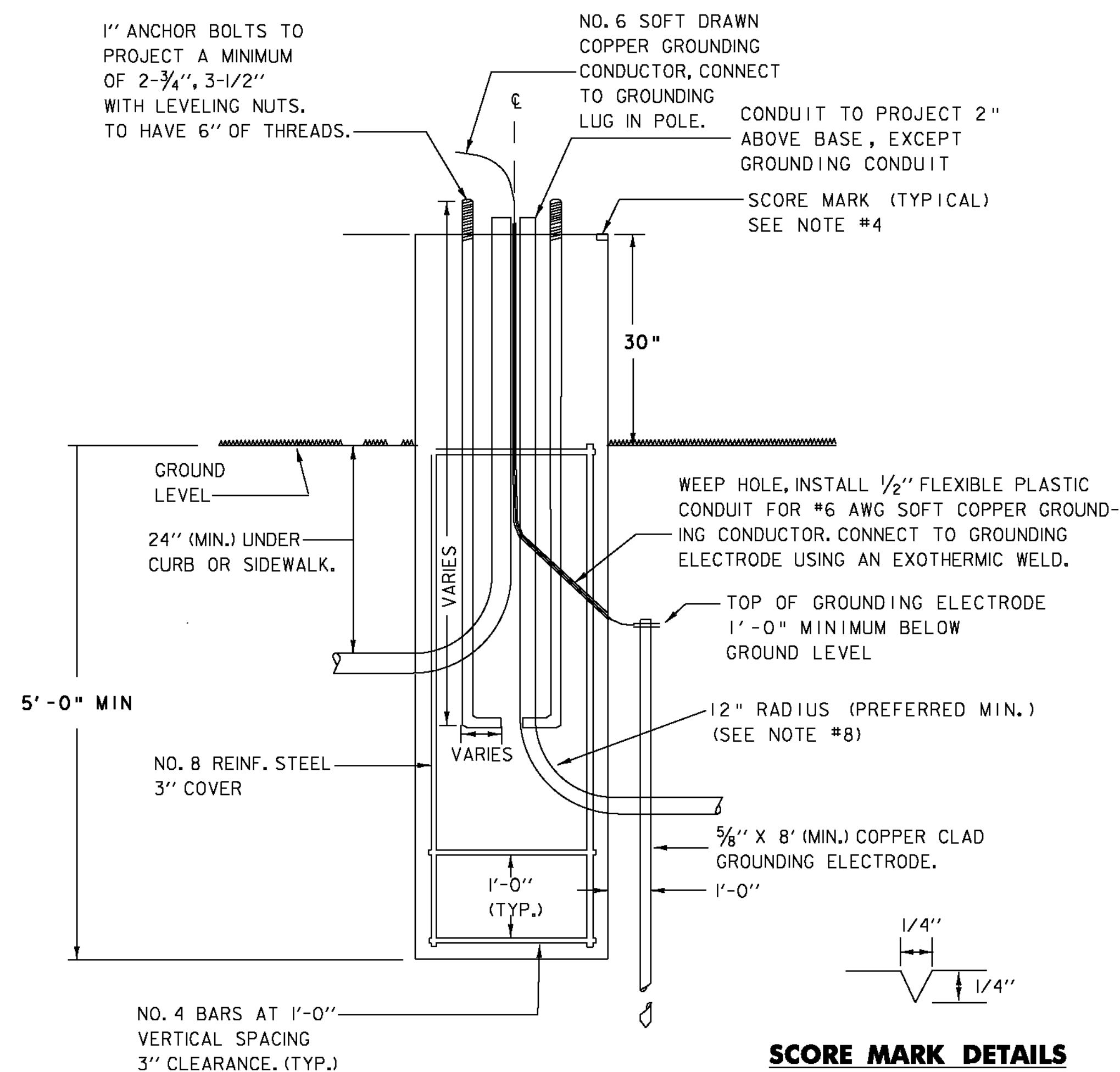


PLAN

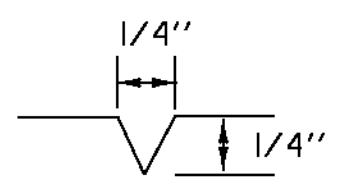


ELEVATION

CONCRETE POLE BASE DETAIL

NOT TO SCALE

SCORE MARK DETAILS



NOTES

1. ALL CONCRETE BASES TO BE CONCRETE, CLASS B, AND SHALL HAVE A SMOOTH LEVEL TOP SURFACE FINISHED WITH A 1/2 INCH RADIUS EDGING TOOL.
2. ALL REINFORCING STEEL TO CONFORM TO THE REQUIREMENTS FOR VTRANS STANDARD SPECIFICATIONS SECTION 507 "REINFORCING STEEL."
3. TEMPLATE FOR ANCHOR BOLTS, STAINLESS STEEL ANCHOR BOLTS, NUTS, AND WASHERS TO BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION OF BASES.
4. SCORE TOP OF CONCRETE BASE TO SHOW LOCATION OF CONDUIT(S).
5. CONDUIT SIZE - AS SHOWN ON THE PLANS.
6. ALL EXPOSED METAL HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL. REFER TO VTRANS STANDARD SPECIFICATIONS SECTION 714 "STRUCTURAL STEEL."
7. IF THE ELECTRICAL CONDUIT IN THE CONCRETE BASE IS GALVANIZED STEEL, GROUNDING BUSHINGS SHALL BE USED.
8. THE MINIMUM RADIUS FOR RIGID METALLIC OR NON-METALLIC ELECTRICAL CONDUIT SHALL BE SIX TIMES THE INSIDE DIAMETER OF THE CONDUIT.
9. SEE VTRANS STANDARD SHEET E-173 FOR JUNCTION BOX DETAIL.
10. SEE VTRANS STANDARD SHEETS E-180A AND E-180B FOR THE INSTALLATION OF SITE LIGHTING W/ CONCRETE BASES.

GENERAL SITE LIGHT NOTES

CONCRETE BASES

WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THE GREATEST EXPOSED HEIGHT TO KEEP ALL OF THE TOP ABOVE GROUND MUST BE DOUBLED AND THEN ADDED TO THE MINIMUM DEPTH FOR THE TOTAL BASE DEPTH.

CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAIN-AGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.

POLES, ANCHOR BASES AND ARMS

ALL NEW SITE LIGHT POLES AND LUMINAIRE ARMS SHALL BE ALUMINUM IN ACCORDANCE WITH SUBSECTION 753.01 (B) AND SHALL BE DARK BRONZE IN COLOR.

LUMINAIRES AND POLES

TYPE A: ALUMINUM, DARK BRONZE, 'SHOEBOX' TYPE 100W HIGH PRESSURE SODIUM, TYPE IV DISTRIBUTION EQUIVALENT TO: LITHONIA CATALOG NO. KAD-100S-R4-TB- RPD04-F-PD-PER-PE WITH PHOTO CELL.

TYPE B: ALUMINUM, DARK BRONZE, 'SHOEBOX' TYPE 100W HIGH PRESSURE SODIUM, TYPE III DISTRIBUTION EQUIVALENT TO: LITHONIA CATALOG NO. KAD-100S-R3-TB- RPD04-F-PD-PER-PE WITH PHOTO CELL.

POLES: ROUND ALUMINUM, 20 FT. DARK BRONZE, WITH BASE COVER EQUIVALENT TO: LITHONIA: RSA-20-5G-DM90-DDB-SBC5 LUMINAIRE SUBSTITUTIONS SHALL MEET THE ISO FOOTCANDLE DATA ON LIGHTING DETAILS 2 AND THE ILLUMINATION LEVELS AS DESCRIBED BELOW. POLES SHALL BE NON-BREAKAWAY.

ILLUMINATION LEVELS

PARK AND RIDE SHALL HAVE AN AVERAGE OF 1.0FC.

CONDUIT

A 2 INCH (I.D.) MINIMUM CONDUIT SHALL BE USED AT ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS, ALL CONDUIT SHALL BE AT LEAST SCHEDULE 40 PVC AND EXPOSED CONDUIT SHALL BE SCHEDULE 80 PVC.

CONDUIT SLEEVE

MINIMUM WALL THICKNESS FOR RIGID PLASTIC PIPE SLEEVES SHALL BE 1/35TH THE DIAMETER. ALL CONDUIT RUNS UNDER ROADWAY SHALL BE INSTALLED IN RIGID PLASTIC OR STEEL PIPE SLEEVES. THE SLEEVE SHALL EXTEND TO WITHIN 2 FEET OF THE SIDE OF A CONCRETE BASE OR JUNCTION BOX. WHERE NO CONCRETE BASE OR JUNCTION BOX IS PRESENT, THE SLEEVE SHALL EXTEND 4 FEET BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB. BACKFILLING AROUND A SLEEVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

WHEN JACKING A SLEEVE UNDER A ROADWAY IT SHALL BE STEEL WITH A MINIMUM DIAMETER OF 8 INCHES AND MINIMUM WALL THICKNESS OF 3/8 INCH. ACTUAL LENGTH TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

WIRE

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR JUNCTION BOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE COPPER AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE SHALL HAVE TYPE XHHW INSULATION OR EQUIVALENT.

GROUNDING

ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR. RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUND CONDUCTOR.

ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

PULLBOXES /JUNCTION BOXES

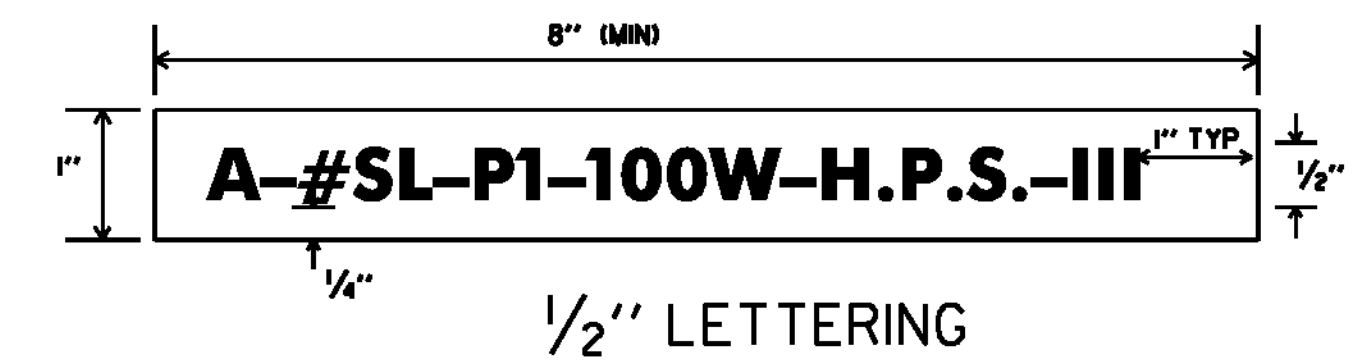
FOR DETAILS SEE VTRANS STANDARD SHEET E-173.

GENERAL

THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL.

THE LAST CONCRETE POLE BASE AT THE END OF EACH CIRCUIT AND SOME JUNCTION BOXES SHALL HAVE A CONDUIT SWEEP WITH CAP INSTALLED FOR FUTURE USE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY ELECTRICAL PERMITS.



LEGEND: BLACK OR WHITE (NON-REFL.) - STAMPED PRIOR TO PRINTING/PAINTING. BACKGROUND: NATURAL ALUMINUM OR FLAT BLACK SURFACE, SAME AS POLE FINISH.

DETAILS FOR TAGS ATTACHED TO SITE LIGHT POLES

1. THE TAG SHALL BE MOUNTED ON ALL STREET LIGHT POLES IN SUCH A MANNER AS TO NOT BE EASILY REMOVED, SUCH AS WELDED, RIVETED, OR BOLTED WITH VANDAL PROOF BOLTS.
2. THE LETTERS SHALL BE PUNCHED, STAMPED, ENGRAVED, OR PHOTO-ETCHED. PUNCHING, STAMPING OR ENGRAVING SHALL PENETRATE AT LEAST 1/2 THE BASE MATERIAL THICKNESS.
3. THE BASE MATERIAL FOR THE TAG SHALL BE ALUMINUM WITH A MINIMUM THICKNESS OF 0.100 INCHES.
4. THE TAG SHALL BE ATTACHED TO THE POLE ABOVE THE HANDHOLE, 6 INCHES MAXIMUM. IF THE POLE HAS A TRANSFORMER BASE ATTACH TAG TO COVER.
5. TYPE 'A' FIXTURE TAG SHALL READ: A-#-100W-H.P.S.-1V
TYPE 'B' FIXTURE TAG SHALL READ: B-#-100W-H.P.S.-111

PROJECT NAME: ENOSBURG	PLOT DATE: 5/23/2011
PROJECT NUMBER: CMG PARK(20)	DRAWN BY: STANTEC
FILE NAME: ...24lightingdetails3.pptf	CHECKED BY: GAS
PROJECT LEADER: WLD	SHEET 24 OF 32
DESIGNED BY: CSP/GGG	
LIGHTING DETAILS 3	

