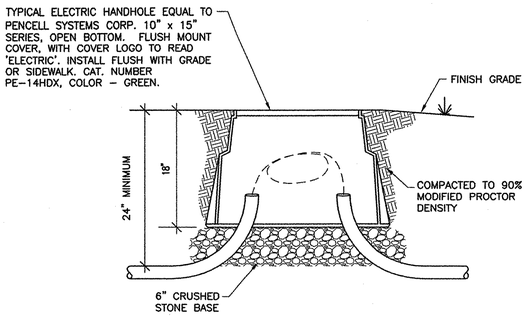
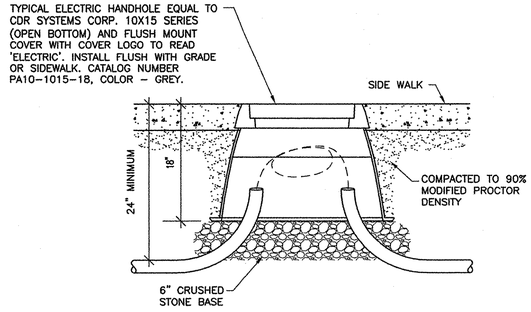


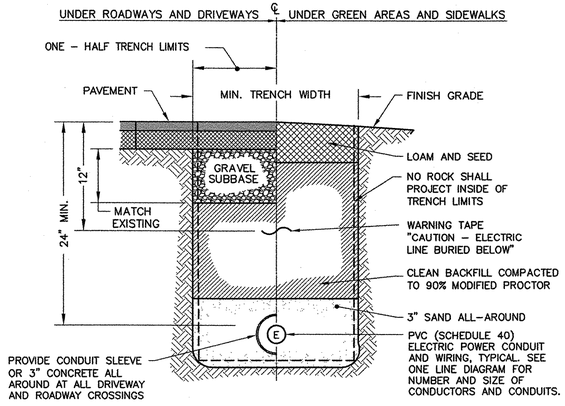
TYPICAL SECTION @ HANDHOLE HANDHOLE IN GRASS AREAS

NOT TO SCALE



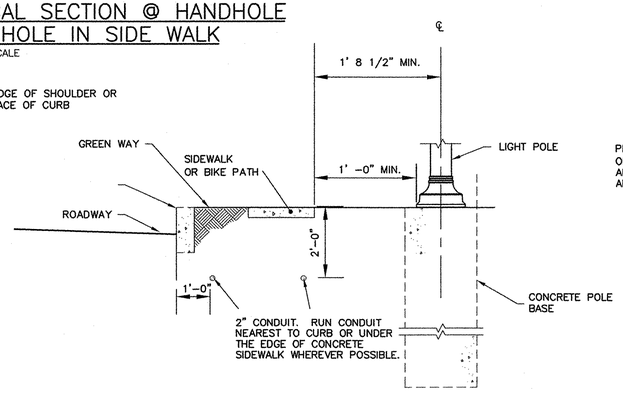
TYPICAL SECTION @ HANDHOLE HANDHOLE IN SIDE WALK

NOT TO SCALE



TYPICAL TRENCH SECTION

NOT TO SCALE



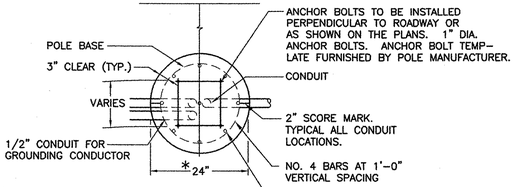
TYPICAL LIGHT POLE LAYOUT TO EDGE OF ROADWAY

(GREEN WAY LESS THAN 4.5' WIDE)

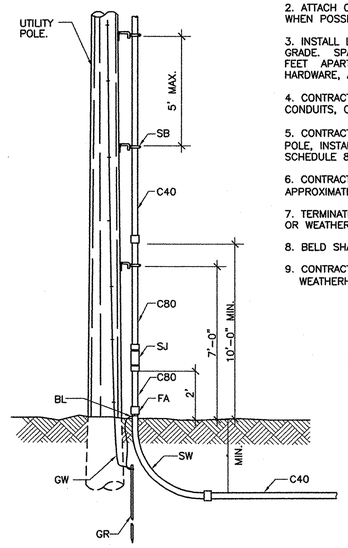
NOT TO SCALE

NOTE:

REFER TO STREET LIGHTING LOCATION SCHEDULE FOR EXACT LOCATION OF LIGHT POLE.



PLAN VIEW



NOTES:

1. MINIMUM 3" NEMA APPROVED PVC SCHEDULE 80 SHALL BE USED FOR THE FIRST 10' SECTION, SCHEDULE 40 MAY BE USED ABOVE FIRST 10' SECTION.

2. ATTACH CONDUIT ON SIDE OF POLE AWAY FROM TRAFFIC WHEN POSSIBLE.

3. INSTALL LOWEST STANDOFF BRACKET AT 7 FEET ABOVE GRADE. SPACE REMAINING STANDOFF BRACKETS APPROX. 5 FEET APART. BELD TO PROVIDE, AND INSTALL ALL RISER HARDWARE, AND BRACKETS.

4. CONTRACTOR SHALL USE ALL PVC CONDUIT. NO STEEL CONDUITS, OR SWEEPS.

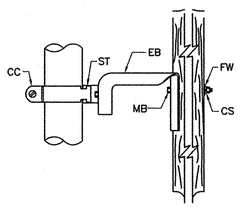
5. CONTRACTOR SHALL SWEEP CONDUIT UP 6" FROM FACE OF POLE, INSTALL SLIPJOINT, AND CONNECT FIRST 10' OF SCHEDULE 80 PVC CONDUIT TO BELD INSTALLED BRACKET.

6. CONTRACTOR TO PROVIDE AND INSTALL SLIP JOINT APPROXIMATELY 2/3 OPEN.

7. TERMINATE CONDUIT WITH CONDULATOR FOR PRIMARY CABLE, OR WEATHERHEAD FOR SECONDARY CABLE.

8. BELD SHALL PROVIDE GROUNDING WHERE NEEDED.

9. CONTRACTOR SHALL PROVIDE CONDUCTORS TO TOP OF WEATHERHEAD PLUS 48".



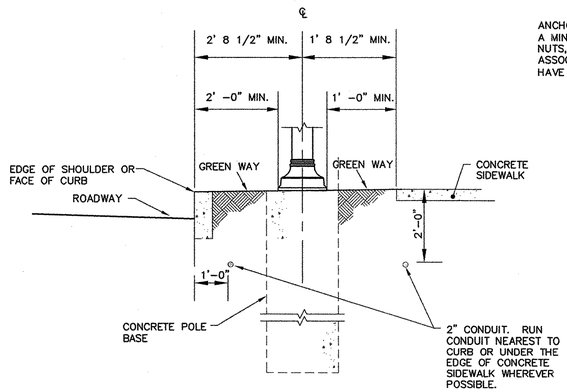
STANDOFF BRACKET DETAIL

ITEM	MATERIAL
SJ	SLIP JOINT
SB	STANDOFF BRACKET
C80	CONDUIT (SCHEDULE 80) 3"
C40	CONDUIT (SCHEDULE 40) 3"
SW	90° STEEL SWEEP 3"
FA	FEMALE ADAPTER
BL	BONDING LUG
GR	GROUND ROD
GW	GROUND WIRE
ST	GALVANIZED STEEL CONDUIT

MATERIAL FOR ONE STANDOFF BRACKET	
ITEM	MATERIAL
FW	FLAT WASHER 2"x2"
CS	COIL SPRING WASHER
REB	RACK EXTENSION BRACKET
ST	STRUT (CUT TO LENGTH)
CC	CONDUIT CLAMP
MB	MACHINE BOLT 5/8"

UTILITY POLE RISER DETAIL

NOT TO SCALE



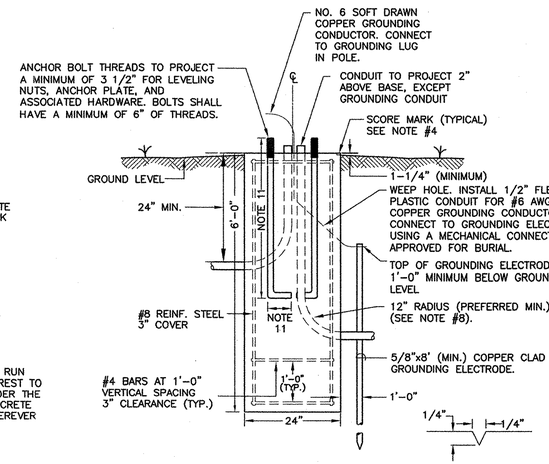
TYPICAL LIGHT POLE LAYOUT TO EDGE OF ROADWAY

(GREEN WAY 4.5' WIDE OR GREATER)

NOT TO SCALE

NOTE:

REFER TO STREET LIGHTING LOCATION SCHEDULE FOR EXACT LOCATION OF LIGHT POLE.



ELEVATION

STANDARD CONCRETE BASE DETAIL

NOT TO SCALE

GENERAL STREET LIGHTING NOTES

1. THE SCOPE OF WORK IS TO PROVIDE ALL LABOR, MATERIALS, SERVICES, SUPPLIES, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES NECESSARY TO FURNISH AND INSTALL COMPLETE STREET LIGHTING WORK AS CALLED FOR ON THE DRAWINGS, SPECIFIED, OR AS MAY REASONABLY BE IMPLIED AS BEING INCIDENTAL TO THIS WORK.

2. SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS, AND APPROVALS.

3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF WORK. BASIC DESIGN CONCEPTS INDICATED ARE TO BE EITHER FOLLOWED OR BETTERED. WORK IS INTENDED TO INCLUDE ITEMS NECESSARY FOR PROPER OPERATION AND COMPLETION. FIELD VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS.

4. EXECUTE ALL WORK IN A NEAT AND WORKMANLIKE MANNER IN CONFORMANCE WITH BEST MODERN TRADE PRACTICE, BY COMPETENT, EXPERIENCED MECHANICS, PRESENTING A NEAT APPEARANCE WHEN COMPLETED.

5. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL CODES, REGULATIONS AND REQUIREMENTS OF ALL MUNICIPAL, STATE, FEDERAL AND OTHER PUBLIC OR PRIVATE AUTHORITIES WHICH HAVE JURISDICTION. IN EACH CASE, CODES ARE MINIMUM REQUIREMENTS.

6. SHOP DRAWINGS: SUBMIT COMPLETE CATALOG INFORMATION FOR ALL MATERIALS AND EQUIPMENT TO BE PURCHASED AND USED ON THIS PROJECT AND AS SPECIFIED ON THE DRAWINGS. DO NOT INSTALL MATERIALS OR EQUIPMENT WITHOUT APPROVAL. UNAPPROVED MATERIAL ALREADY INSTALLED SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED MATERIALS AT THE CONTRACTOR'S EXPENSE.

7. THE FINISHED INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT AND DETAIL, TESTED AND LEFT READY IN PERFECT OPERATING CONDITION.

8. MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS' LABORATORIES AND SHALL BE INSTALLED IN ACCORDANCE WITH SUCH LISTINGS.

9. THE CONTRACTOR SHALL GUARANTEE THAT MATERIALS, EQUIPMENT AND WORKMANSHIP PROVIDED BY HIM SHALL BE FREE FROM DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK DONE UNDER THIS CONTRACT, AND SHALL REPLACE PARTS FOUND TO BE DEFECTIVE WITHIN THE PERIOD COVERED BY SUCH GUARANTEE, WITHOUT COST TO THE OWNER.

10. INSTALLATION SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

11. CONDUIT LOCATIONS SHOWN ARE INDICATIVE ONLY. CONDUITS WILL BE INSTALLED SO AS NOT TO INTERFERE WITH OTHER NEW OR EXISTING UTILITIES.

12. CONDUIT LOCATIONS SHALL MAINTAIN A MINIMUM OF FIVE FEET SEPARATION FROM CENTERLINE OF TREES.

CONCRETE BASE AND GENERAL NOTES:

1. ALL CONCRETE BASES TO BE CONCRETE CLASS B, AND SHALL HAVE A SMOOTH LEVEL TOP SURFACE FINISHED WITH A 1/2" RADIUS EDGING TOOL.

2. ALL REINFORCING STEEL TO CONFORM TO THE REQUIREMENTS FOR "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 STAINLESS STEEL.

7. THE MINIMUM RADIUS FOR RIGID METALLIC OR NONMETALLIC ELECTRICAL CONDUIT SHALL BE SIX TIMES THE INSIDE DIAMETER OF THE CONDUIT.

8. SEE V.A.O.T. STANDARD DETAILS FOR THE INSTALLATION OF STREET LIGHTING W/ CONCRETE BASES AND FIXTURE.

9. CONCRETE BASES SHALL BE FLUSH WITH FINISHED GRADE.

10. GROUT SPACE BETWEEN CONCRETE BASE AND BASE PLATE.

11. ANCHOR BOLTS FOR TYPE 'A' - SEE TYPE 'A' BASE DETAILS. ANCHOR BOLTS FOR TYPE 'B1' - SEE TYPE 'B1' ANCHOR BOLT ASSEMBLY DETAIL.

12. EXISTING STREET LIGHTING SHALL REMAIN IN SERVICE UNTIL NEW STREET LIGHTING IS FUNCTIONAL.

13. THE CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH BELD INCLUDING CONNECTIONS AT HANDHOLES AND UTILITY POLES.

STATE OF VERMONT - ALANA A. SCALA - No. 7786 - Electrical - LICENSED PROFESSIONAL ENGINEER

STREET LIGHTING DETAILS

SHEET SL14

SURVEYED BY	CLD	DATE	07/89
DRAWN BY	MLC/JTM/PBH	DATE	06/03
DESIGN BY	LAB/MLC		
DESIGN FILE NO.			
PRF FILE	-	DATE PLOTTED	-
PROJ. NAME	BURLINGTON		
PROJ. NO.	MEGC 5000(15)		
SHEET 115 OF 252 SHEETS			

DATUM	NATIONAL GEODETIC
VERTICAL	VERTICAL DATUM 1929
HORIZONTAL	N/A

T:\RIVERSIDE AVENUE\Electrical\E14-DT.dwg, Layout1, 7/7/2004 3:40:39 PM, PHIL, \\TDS600\Out\TDS600