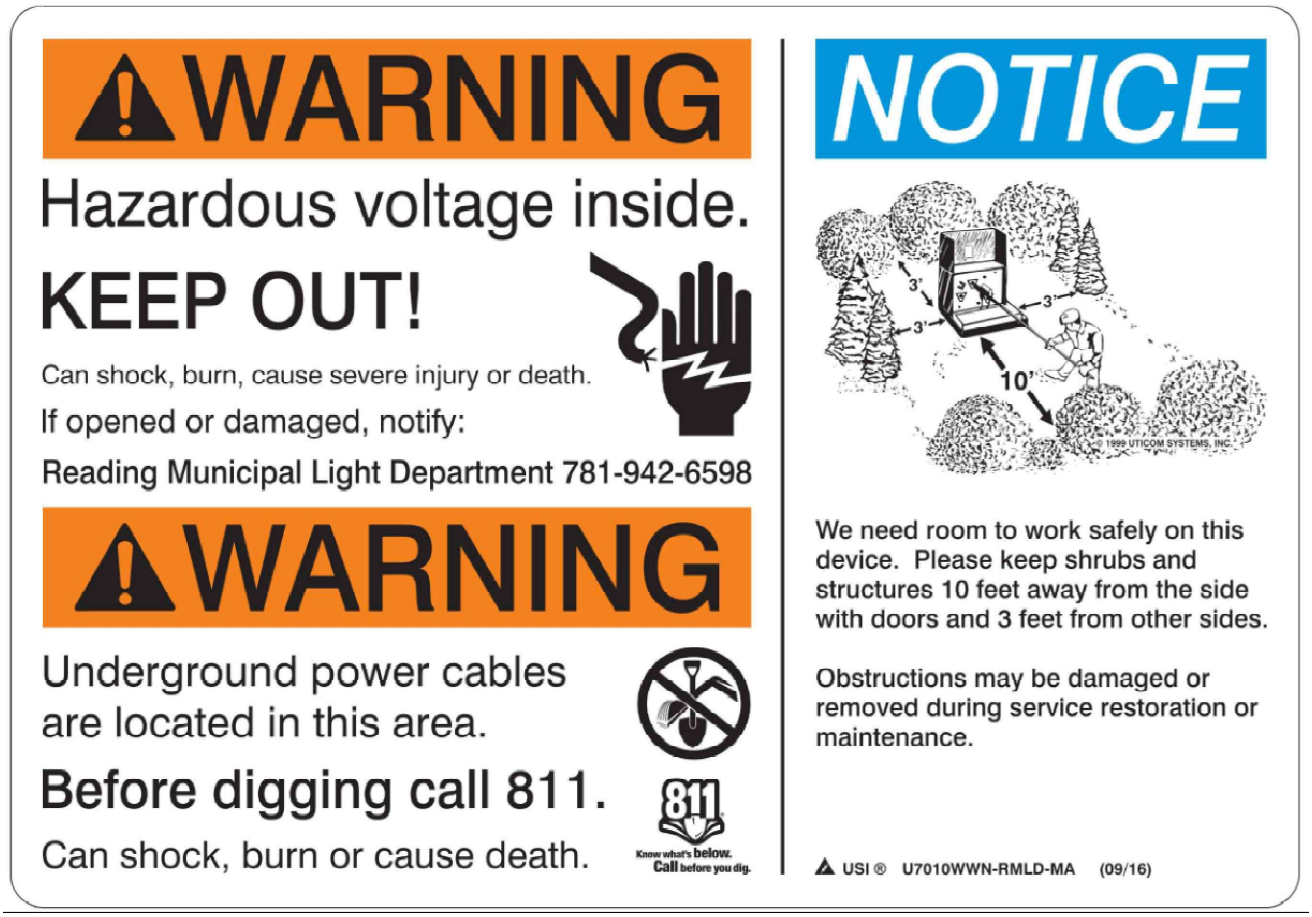
Appendix H – RMLD

Figures and Illustrations



RMLD Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

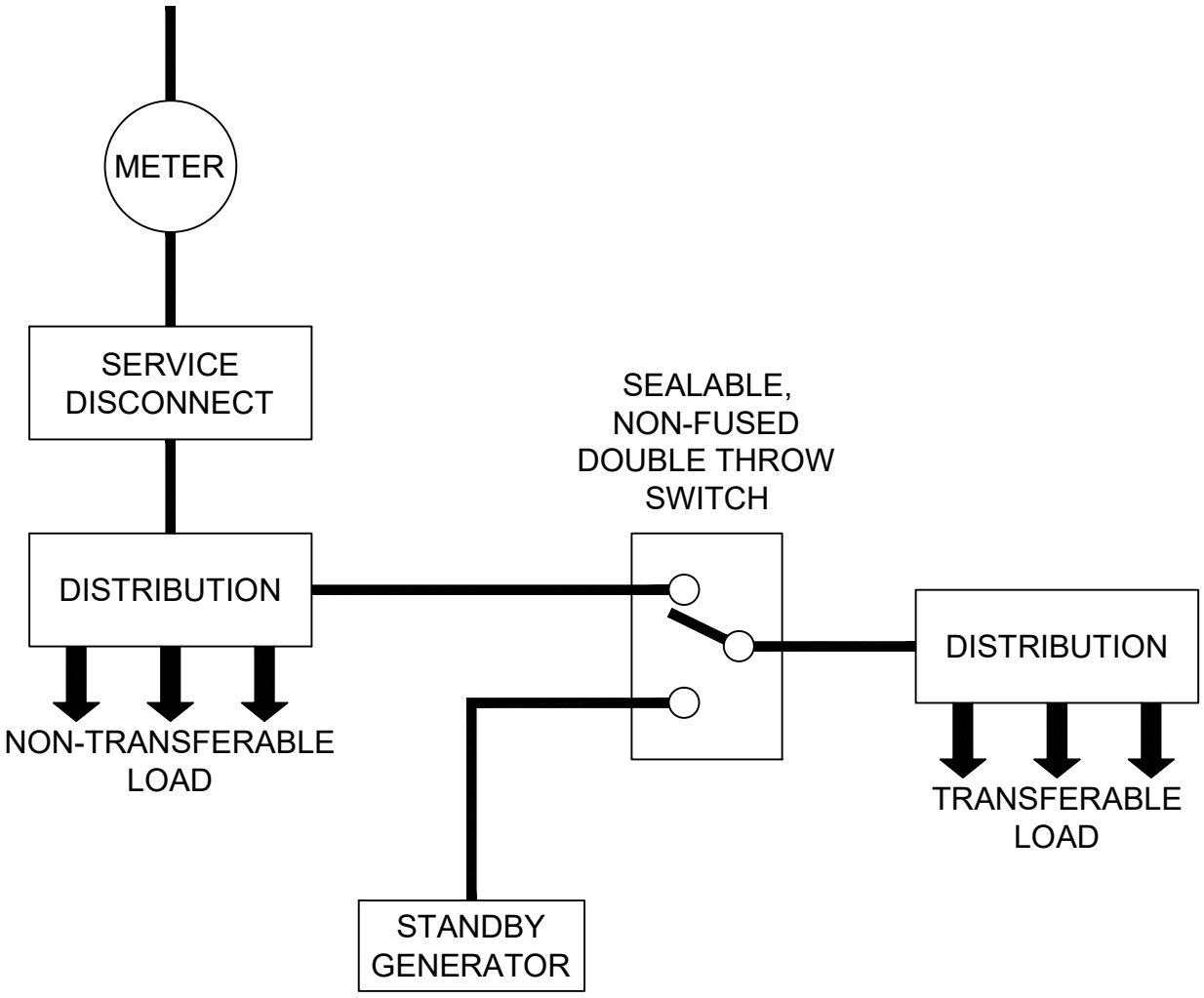
230 Ash St. Reading, MA 01867

FIGURE 1
PAD MOUNT CLEARANCES

SCALE: N.T.S

DATE: 9/24/2020

PARTIAL LOAD TRANSFER



RMLD

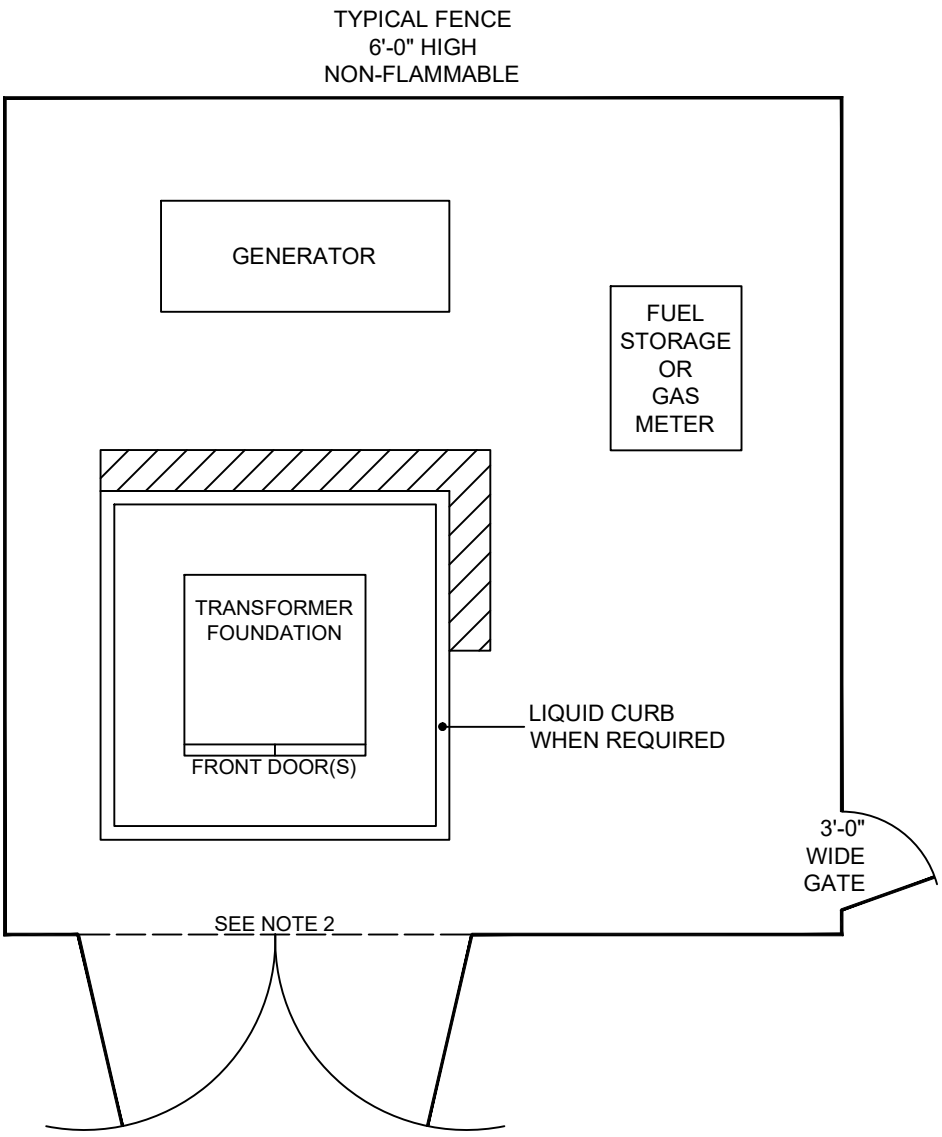
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 2
TYPICAL SWITCHING OF CUSTOMER'S EMERGENCY SUPPLY

SCALE: N.T.S

DATE: 9/24/2020



NOTES:

1. IF LESS THAN 20' SEPARATION BETWEEN TRANSFORMER AND GENERATOR OR FUEL STORAGE, CUSTOMER TO CONSTRUCT MASONRY WALL.
   HEIGHT ABOVE GRADE: 6'-0" MINIMUM
   DEPTH BELOW GRADE: 2'-0" MINIMUM

2. FENCE, WHEN INSTALLED IN FRONT OF TRANSFORMER DOORS SHALL HAVE OPERABLE GATE(S) FOR ACCESS

3. A MINIMUM OF 10'-0" WORKING CLEARANCE **MUST** BE MAINTAINED FROM THE FRONT OF ALL EQUIPMENT DOORS

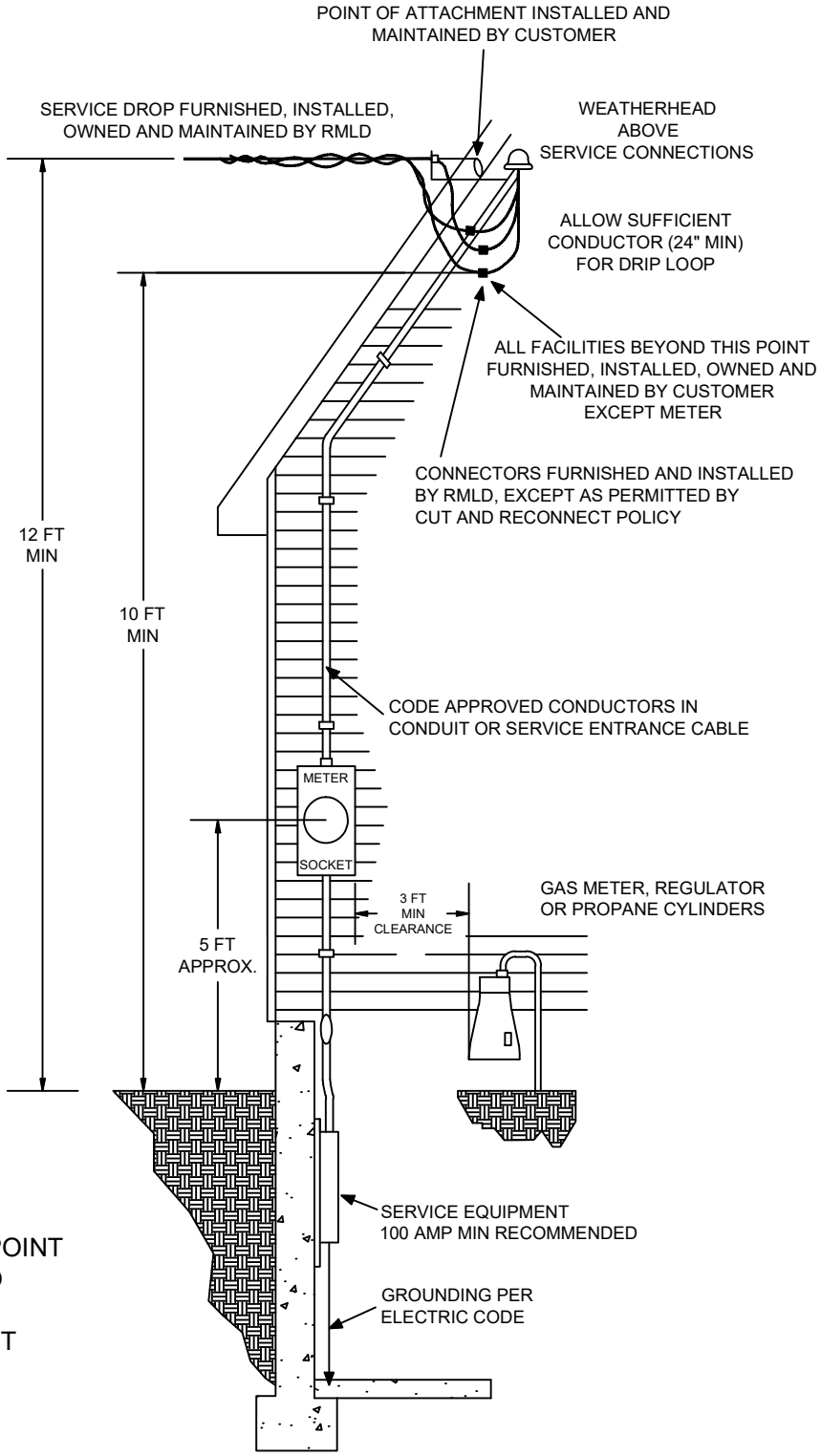
4. **A MINIMUM OF 3'-0" CLEARANCE MUST BE MAINTAINED FROM ALL SIDES OF EQUIPMENT**

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS
230 Ash St. Reading, MA 01867

FIGURE 3
TYPICAL TRANSFORMER ENCLOSURE

SCALE: N.T.S

DATE: 9/24/2020



NOTES:

1. ELECTRICIAN TO INSTALL POINT OF ATTACHMENT, RMLD TO SUPPLY ATTACHMENT HARDWARE UPON REQUEST

RMLD

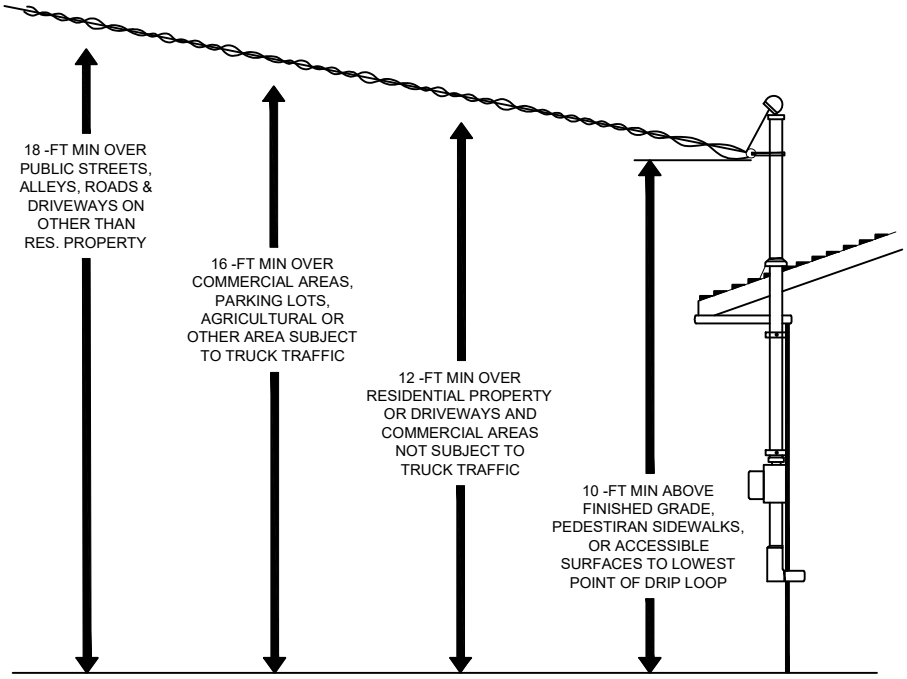
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

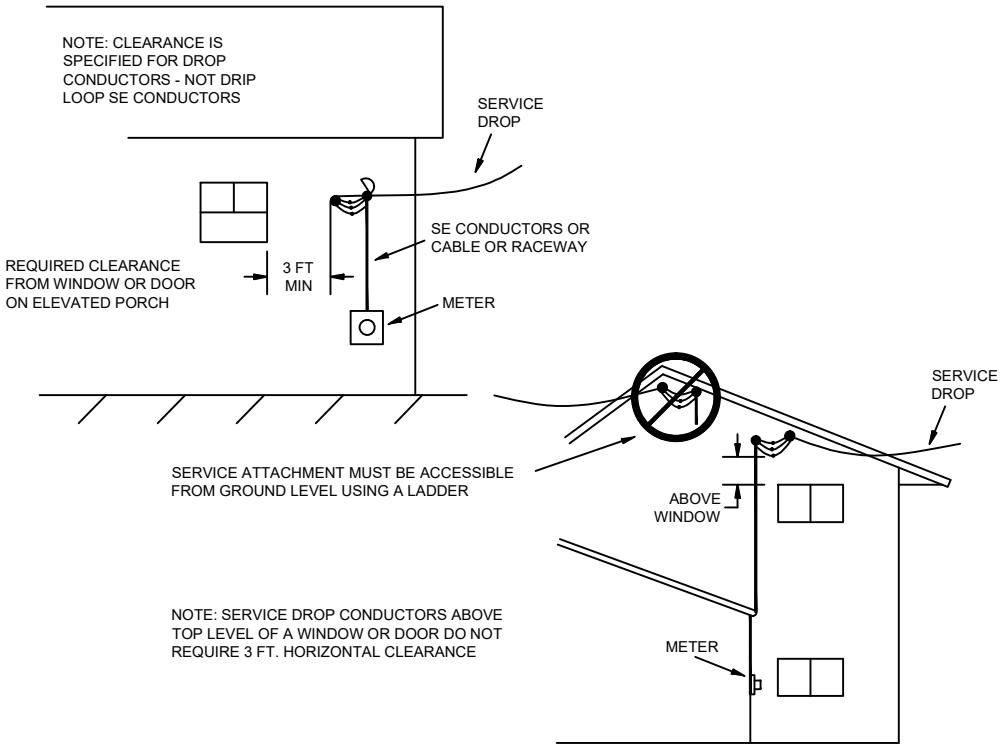
FIGURE 4
OVERHEAD SERVICE ENTRANCE GUIDELINES

SCALE: N.T.S

DATE: 9/24/2020



SERVICE DROP CLEARANCE TO GROUND



SERVICE DROP CLEARANCE TO GROUND

RMLD

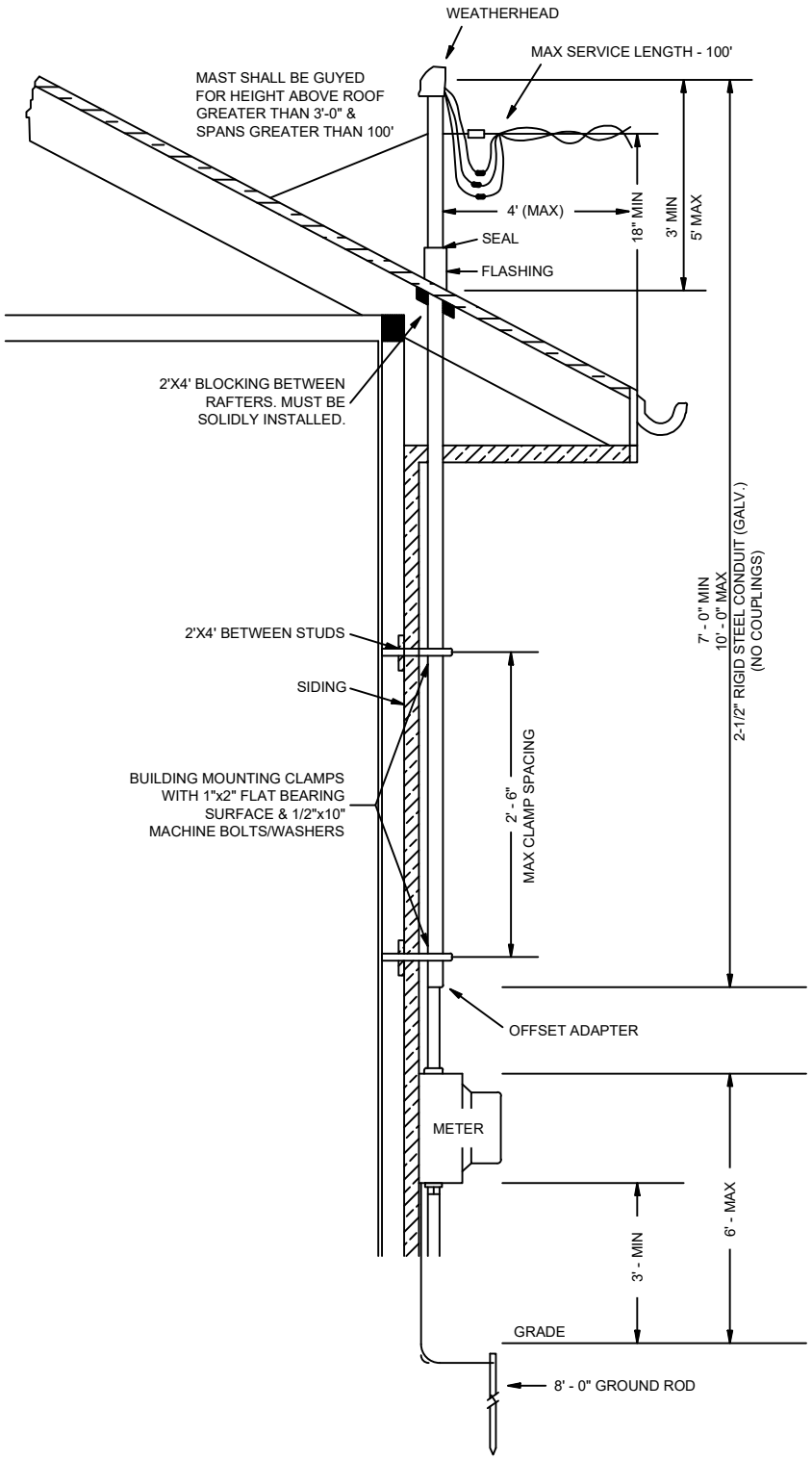
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 5
SERVICE DROP REQUIREMENTS

SCALE: N.T.S

DATE: 9/24/2020



RMLD

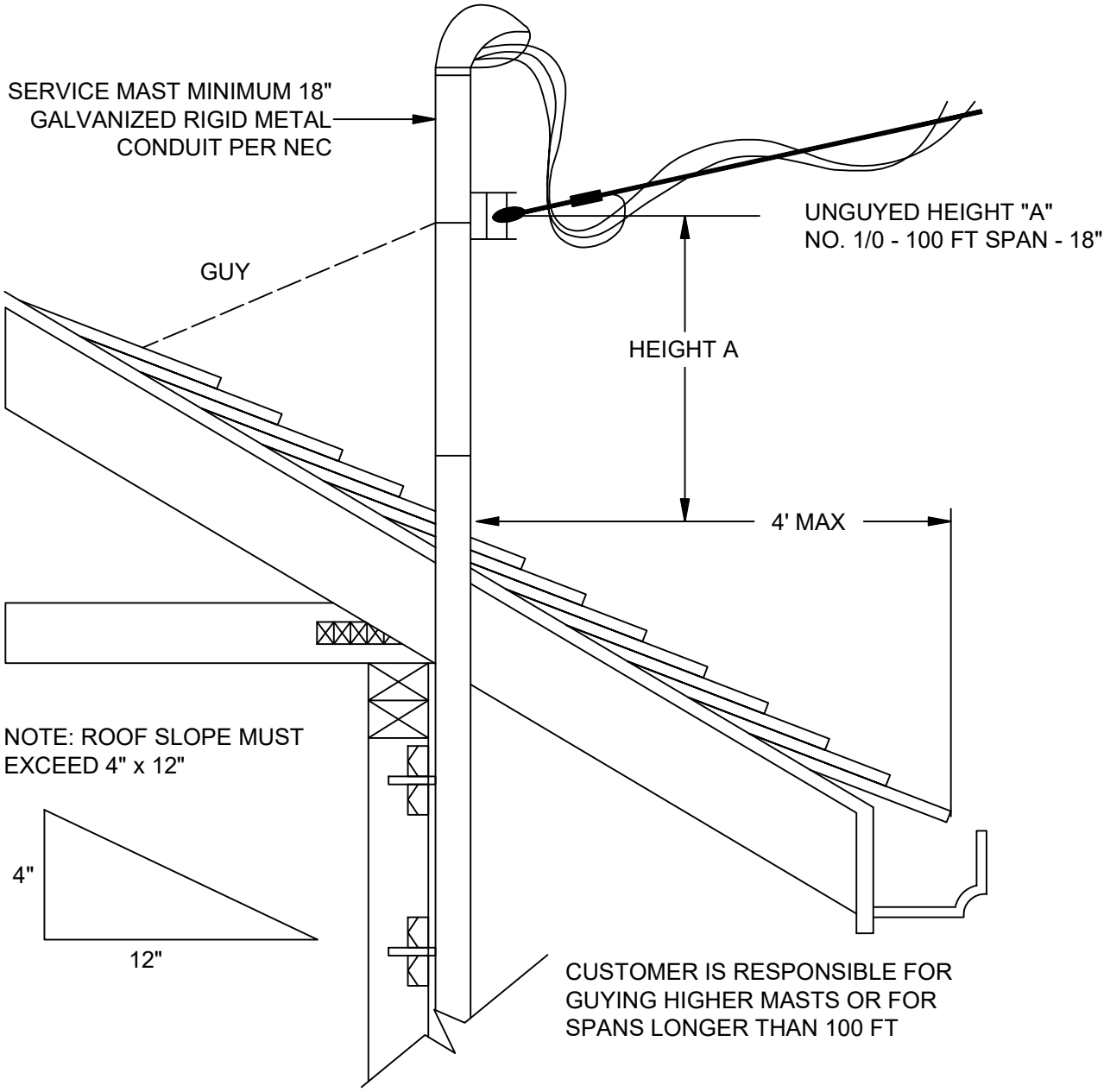
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 6
TYPICAL SERVICE MAST CONSTRUCTION

SCALE: N.T.S

DATE: 9/24/2020



RMLD

Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

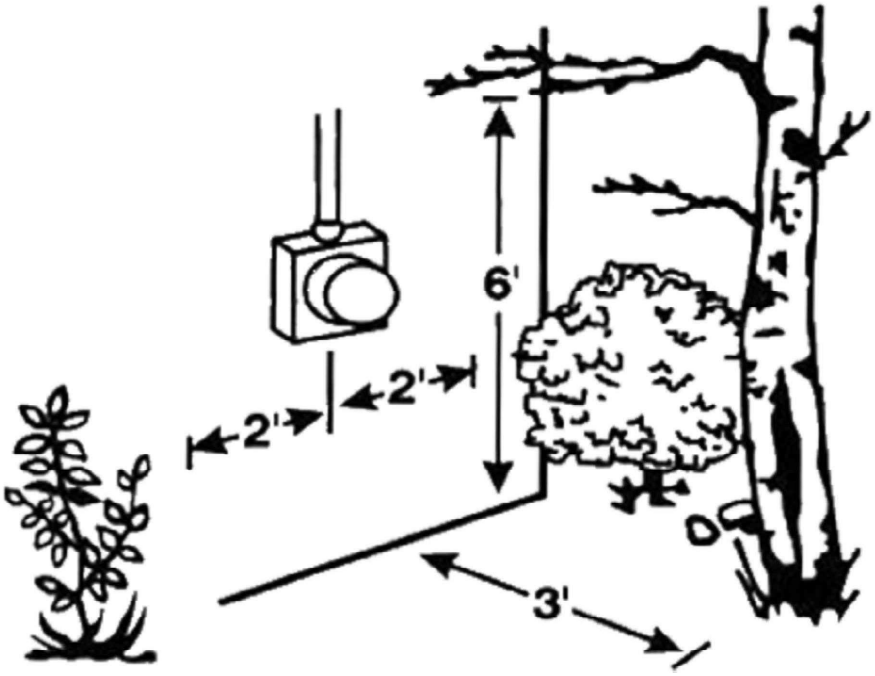
230 Ash St. Reading, MA 01867

FIGURE 7
SERVICE MAST INSTALLATION

SCALE: N.T.S	DATE: 9/24/2020

NOTICE

PLEASE KEEP SHRUBS, DEBRIS, FENCES, AND OTHER STRUCTURES CLEAR OF THIS AREA. A CLEARANCE OF 4' WIDE X 3' DEEP X 6' HIGH IS REQUIRED.



DO NOT TAMPER WITH THE METER, ITS SEALS, OR CONNECTIONS UNDER PENALTY OF LAW.

RMLD

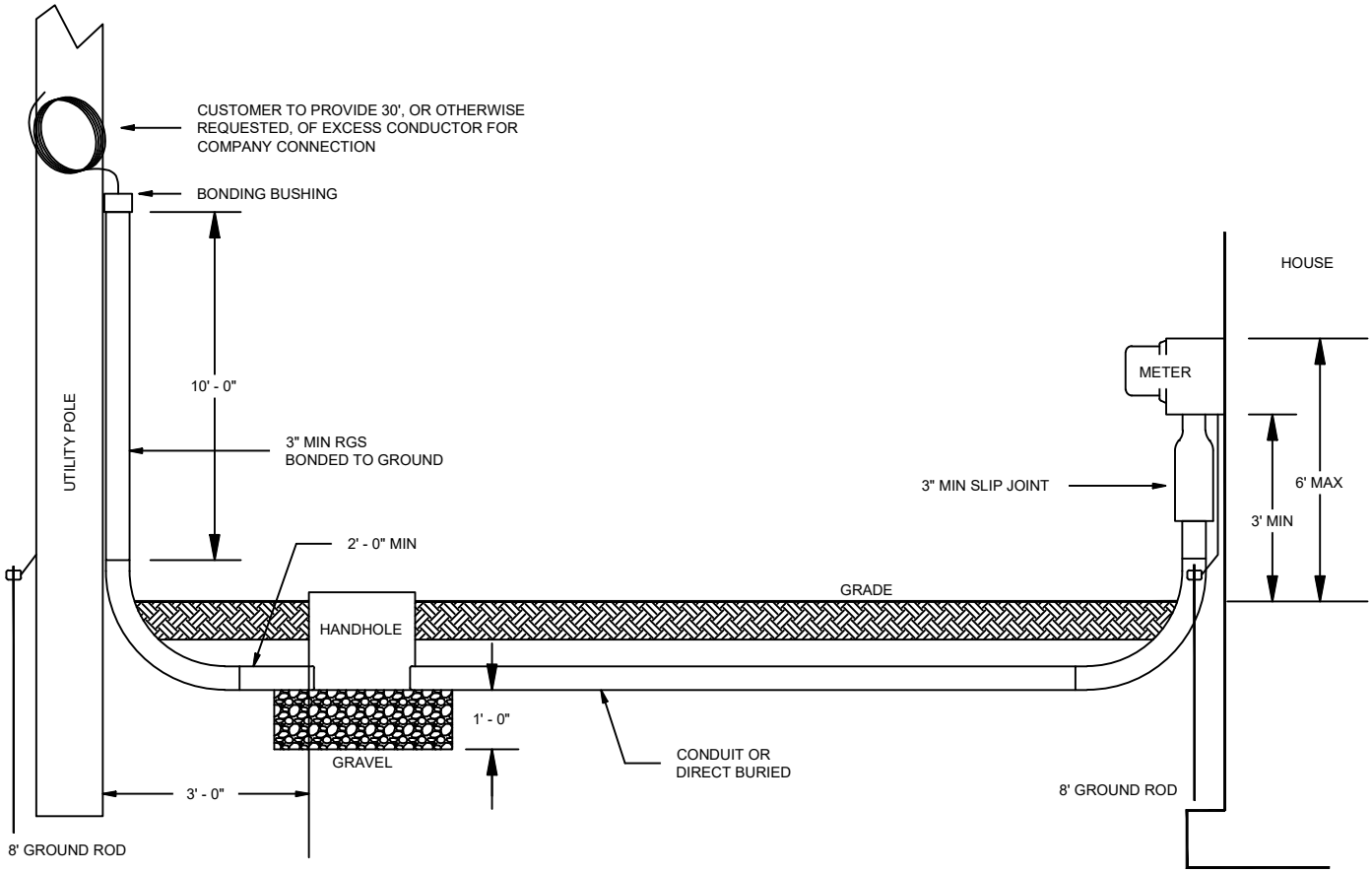
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 8
UTILITY METER SOCKET WARNING AND CLEARANCE DIAGRAM

SCALE: N.T.S

DATE: 9/24/2020



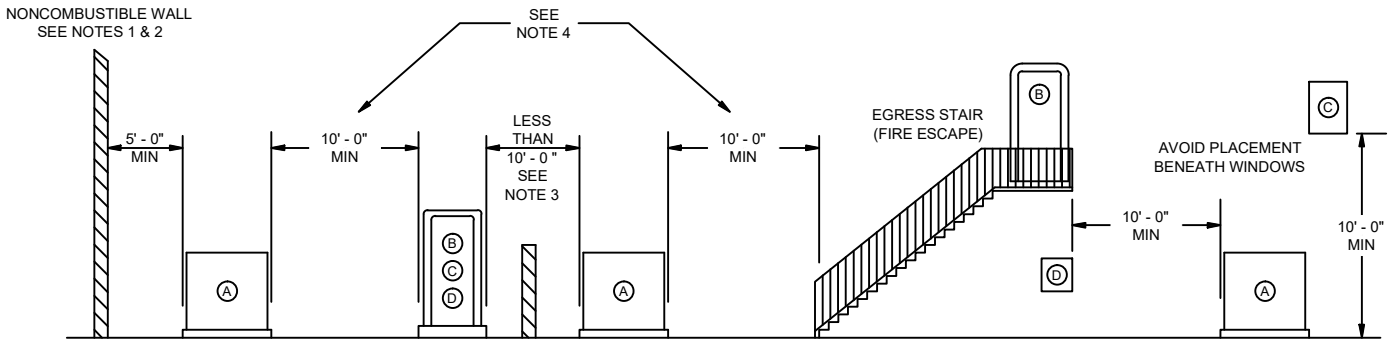
NOTES:

1. ALL EQUIPMENT, EXCEPT WATT-HOUR METER, SHALL BE FURNISHED AND INSTALL BY THE CUSTOMER, UNLESS SPECIFICALLY NOTED
2. CUSTOMER TO INSTALL RISER AT RMLD UTILITY POLE.
   MINIMUM RISER INSTALLATION REQUIREMENTS: 10' RIGID STEEL (RGS) CONDUIT, RGS SWEEP AND 2' MIN RGS CONDUIT GETAWAY FROM UTILITY POLE
3. CUSTOMER TO INSTALL HANDHOLE; PROVIDED BY RMLD OF THE FOLLOWING SIZES: 12"x24" OR 17"x30". SIZE OF HANDHOLE TO BE DETERMINED BY RMLD ENGINEERING
4. CUSTOMER WILL FURNISH AND INSTALL WIRE FOR ENTIRE LENGTH,FROM METER SOCKET TO POLE. CUSTOMER TO INCLUDE ENOUGH WIRE TO REACH RMLD SECONDARY CONDUCTORS. (LENGTH SHORTAGE WILL BE CUSTOMER'S RESPONSIBILITY TO RESOLVE)
5. RMLD TO MAKE ALL SERVICE CONNECTIONS AND DISCONNECTIONS AT UTILITY POLE
6. UTILITY POLE SHALL HAVE NO MORE THAN 4 RISERS ASSOCIATED

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS
230 Ash St. Reading, MA 01867

FIGURE 9
CUSTOMER SECONDARY RISER AND SERVICE LATERAL (600V AND BELOW)

SCALE: N.T.S | DATE: 9/24/2020



LEGEND

- Ⓐ EQUIPMENT, OIL INSULATED
- Ⓑ DOOR
- Ⓒ WINDOW, OPERABLE
- Ⓓ HVAC DUCT

NOTES:

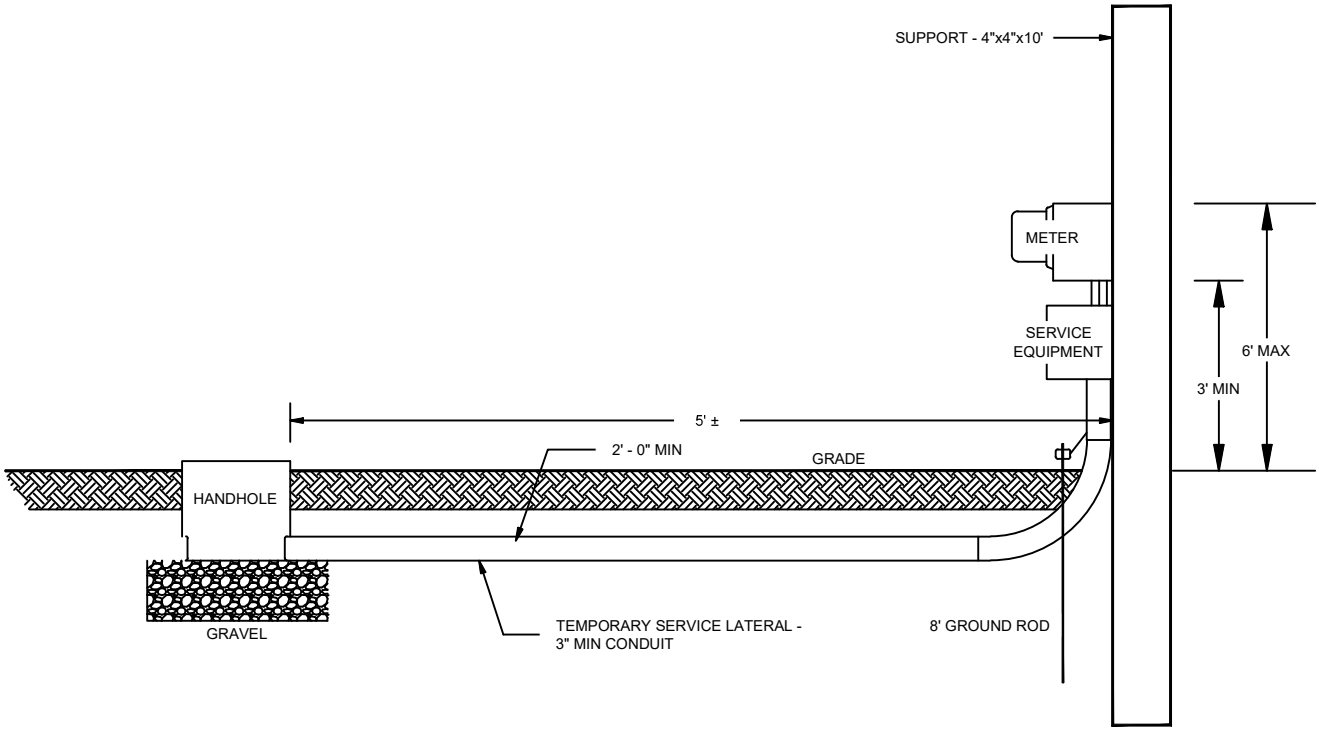
1. NONCOMBUSTIBLE MATERIAL IS DEFINED AS A MATERIAL THAT WILL NOT IGNITE, BURN, SUPPORT COMBUSTION, OR RELEASE FLAMMABLE VAPORS, WHEN SUJECTED TO FIRE OR HEAT (NFPA 220-1979)
2. BUILDING OR ANY ELEMENT OF A BUILDING STRUCTURE SHALL NOT OVERHANG ANY PART OF THE PAD-MOUNTED EQUIPMENT
3. WHEN MINIMUM REQUIRED DISTANCE CANNOT BE MET, A NONCOMBUSTIBLE BARRIER, OF MINIMUM 6' HEIGHT, SHALL BE CONSTRUCTED
4. THE MINIMUM CLEARANCE OF 10' SHALL BE INCREASED TO 25' FOR EXITS FROM PLACES OF PUBLIC ASSEMBLY, SUCH AS AN AUDITORIUM

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS
230 Ash St. Reading, MA 01867

FIGURE 10
LOCATION OF PAD MOUNTED EQUIPMENT

SCALE: N.T.S

DATE: 9/24/2020



NOTES:

1. ALL EQUIPMENT, EXCEPT WATT-HOUR METER, SHALL BE FURNISHED AND INSTALL BY THE CUSTOMER
2. RMLD WILL MAKE ALL SEVICE CONNECTIONS AND DISCONNECTIONS
3. INSTALL EIGHT FOOT (8') LOOP OF SERVICE WIRE AROUND HANDHOLE FOR RMLD CONNECTIONS

RMLD

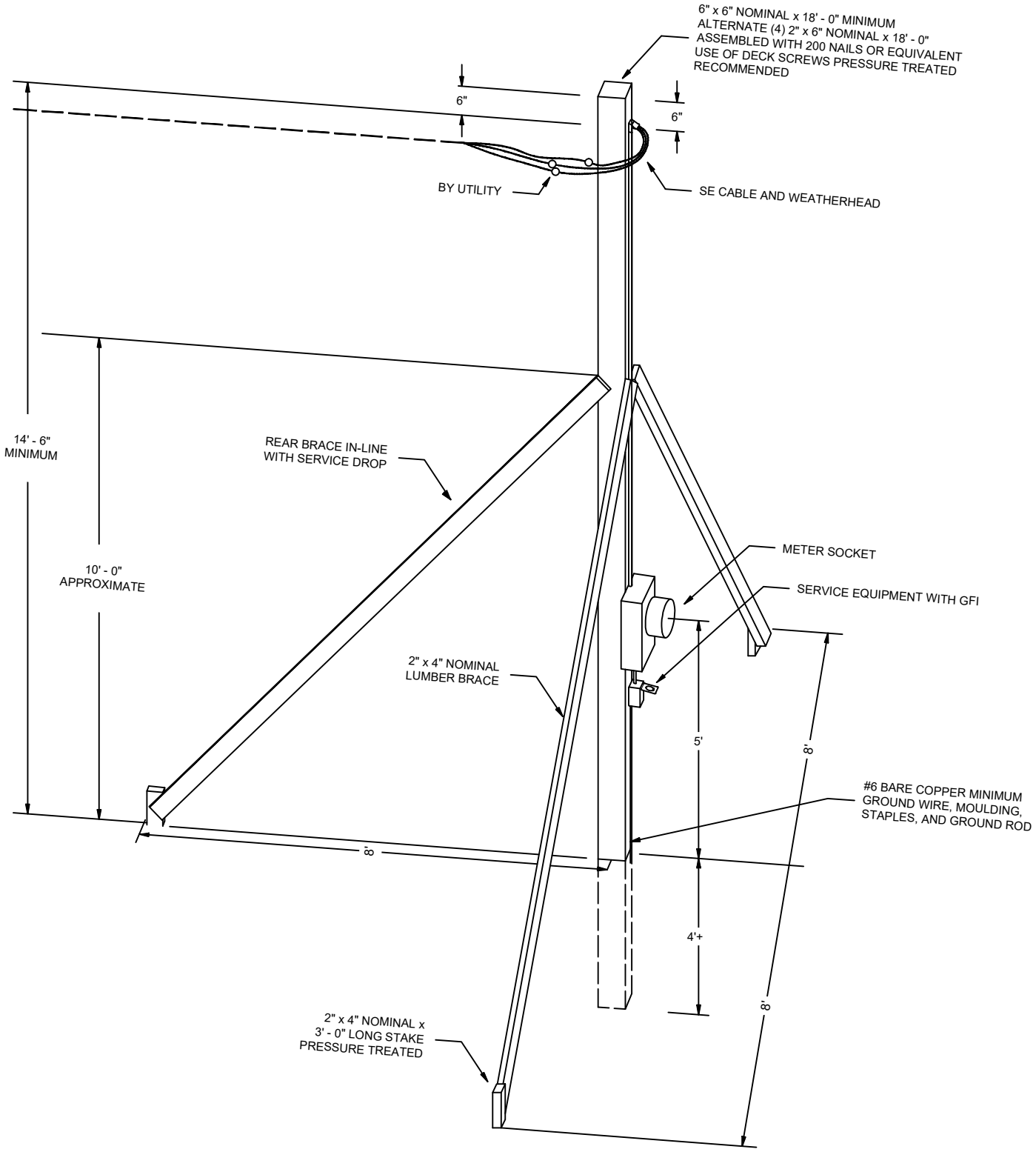
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 11
TEMPORARY SERVICE - UG

SCALE: N.T.S

DATE: 9/24/2020



RMLD

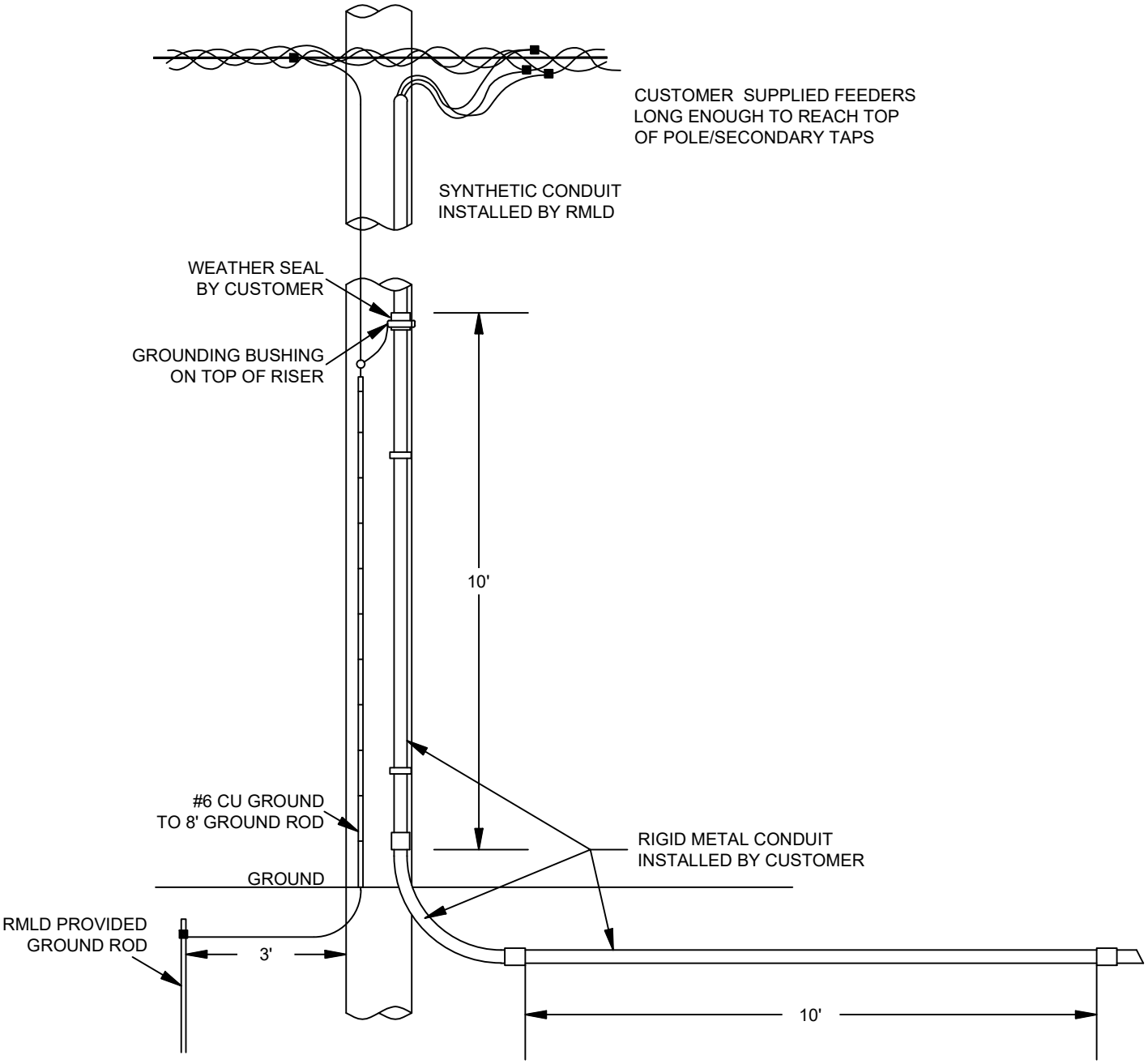
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 12
TEMPORARY SERVICE - OH

SCALE: N.T.S

DATE: 9/24/2020



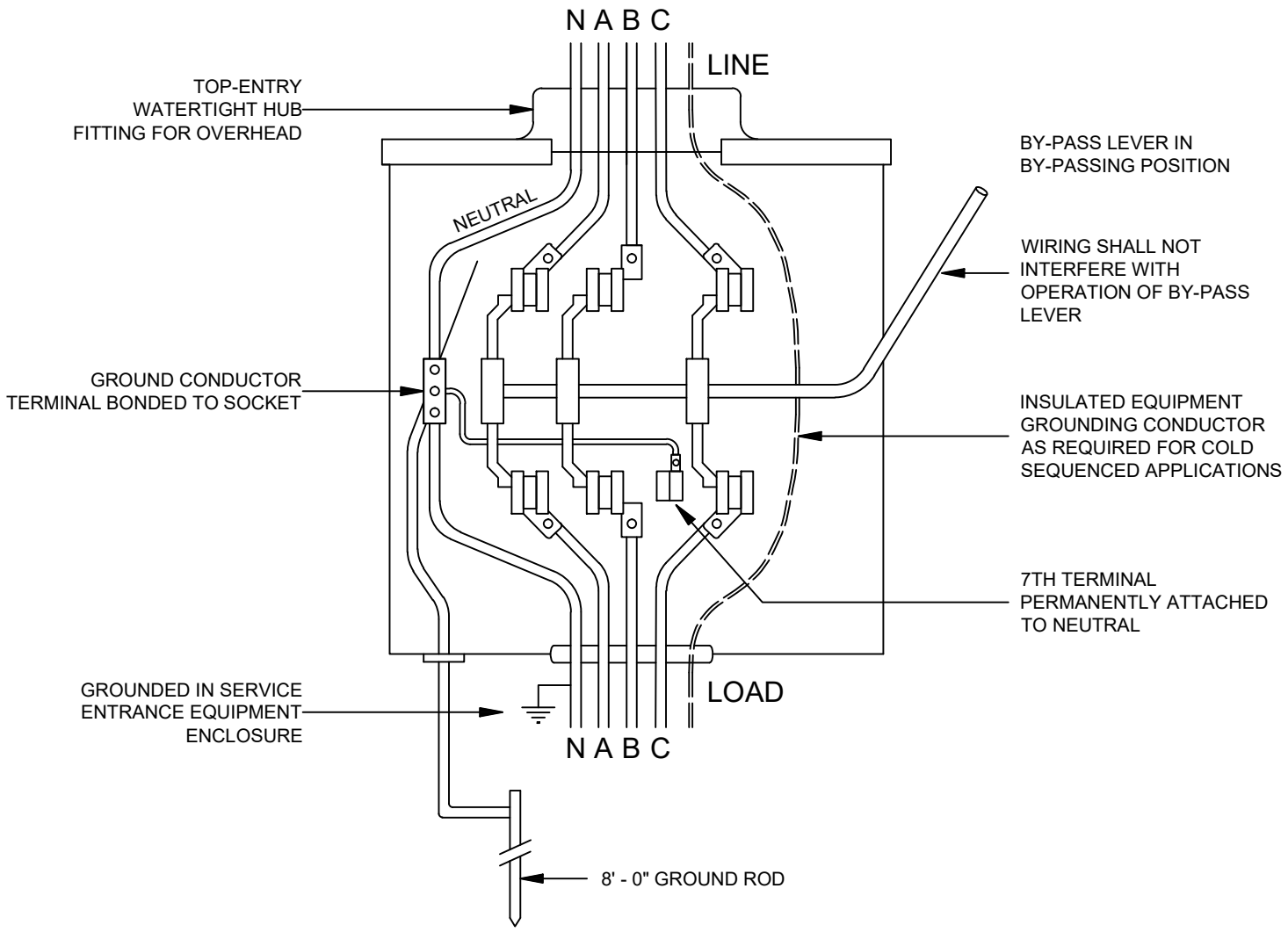
RMLD

Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 13
CUSTOMER SECONDARY RISER (600V AND BELOW)

SCALE: N.T.S	DATE: 9/24/2020



NOTES:

1. FOR INSTALLATION ON THE FOLLOWING FOUR-WIRE SERVICES
   A. 208/120 VOLT WYE
   B. 480/277 VOLT WYE

2. FOR ALL SERVICES, THE SUPPLY MUST BE CONNECTED TO TOP TERMINALS OF METER SOCKET

3. UNDERGROUND SERVICE CONDUCTORS SHALL BE INSTALLED IN A COMPLETE CABLE-IN-CONDUIT SYSTEM ACCORDING TO THE NEC

RMLD

Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

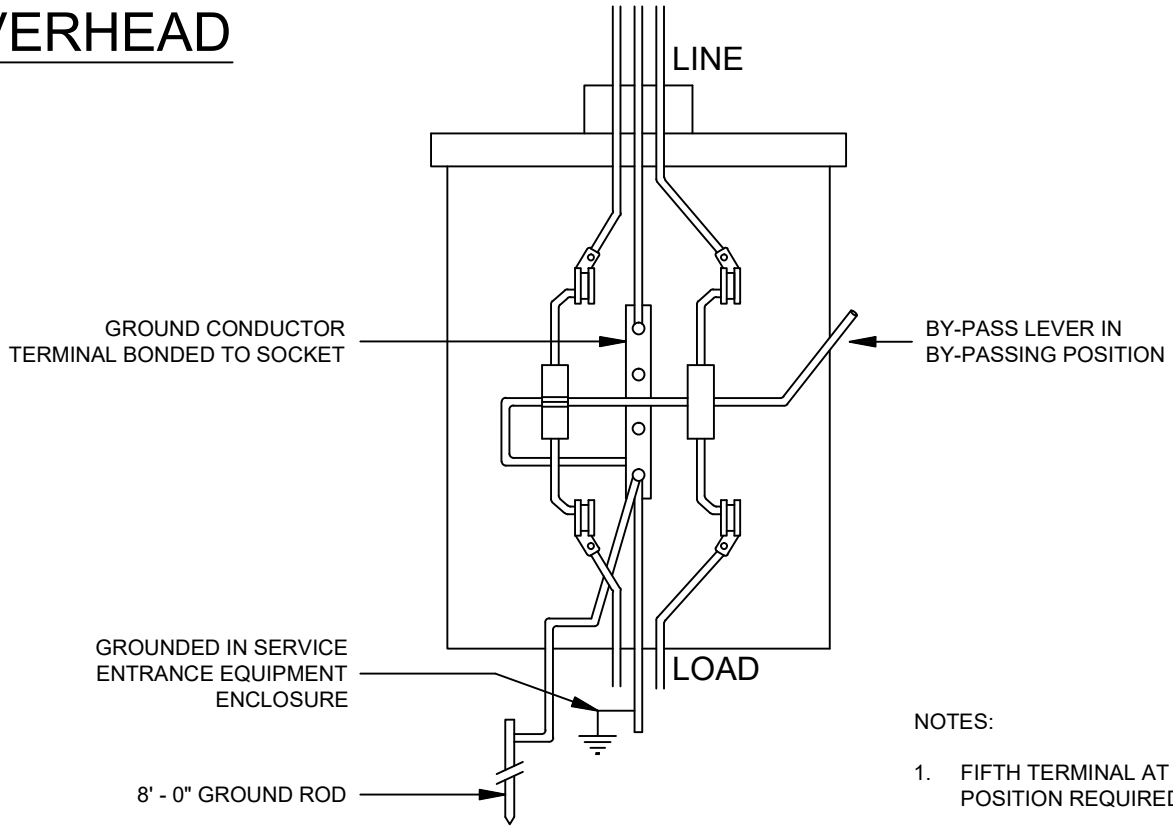
230 Ash St. Reading, MA 01867

FIGURE 14
7 TERMINAL METER SOCKET
3ϕ-4W - 400A MAX

SCALE: N.T.S

DATE: 9/24/2020

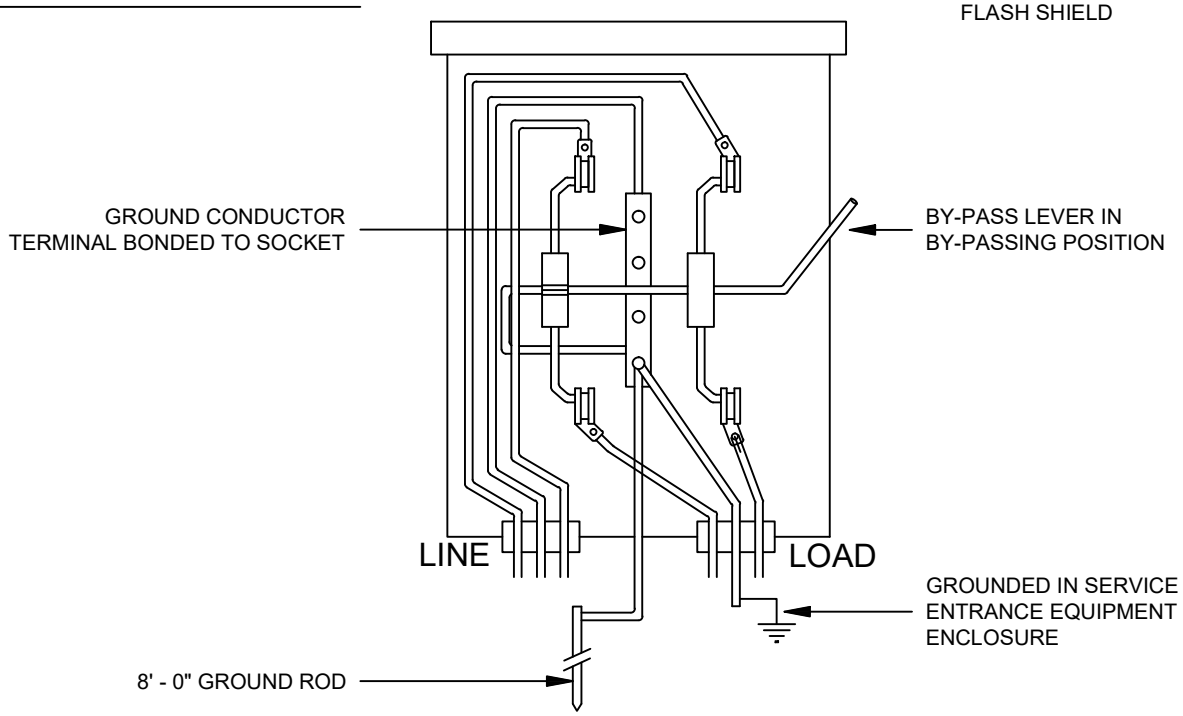
OVERHEAD



NOTES:

1. FIFTH TERMINAL AT 9 O'CLOCK POSITION REQUIRED
2. ALL METER SOCKETS SHALL HAVE A LEVER OPERATED MANUAL BYPASS WITH JAW RELEASE AND FLASH SHIELD

UNDERGROUND



RMLD

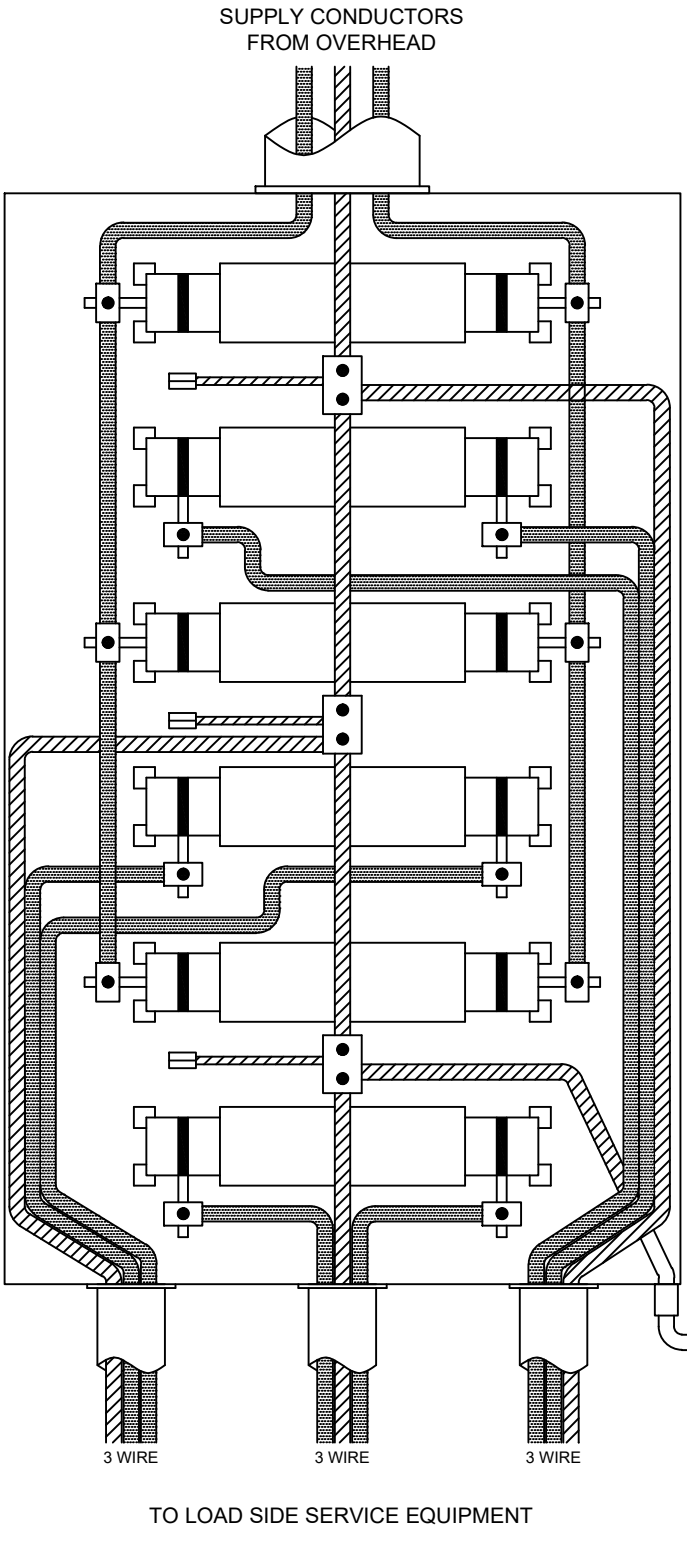
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 15
5 TERMINAL METER SOCKET
1ϕ-3W - 400A MAX

SCALE: N.T.S

DATE: 9/24/2020



NOTES:

1. FIFTH TERMINAL AT 9 O'CLOCK POSITION REQUIRED
2. ALL METER SOCKETS SHALL HAVE A LEVER OPERATED MANUAL BYPASS WITH JAW RELEASE AND FLASH SHIELD
3. OUTDOOR INSTALLATIONS LIMITED TO HEIGHT OF 3 VERTICAL SOCKET POSITIONS
4. FOR INSTALLATIONS GREATER THAN 3 SOCKET POSITIONS OR 3ϕ, CONSULT RMLD FOR ADDITIONAL REQUIREMENTS

RMLD

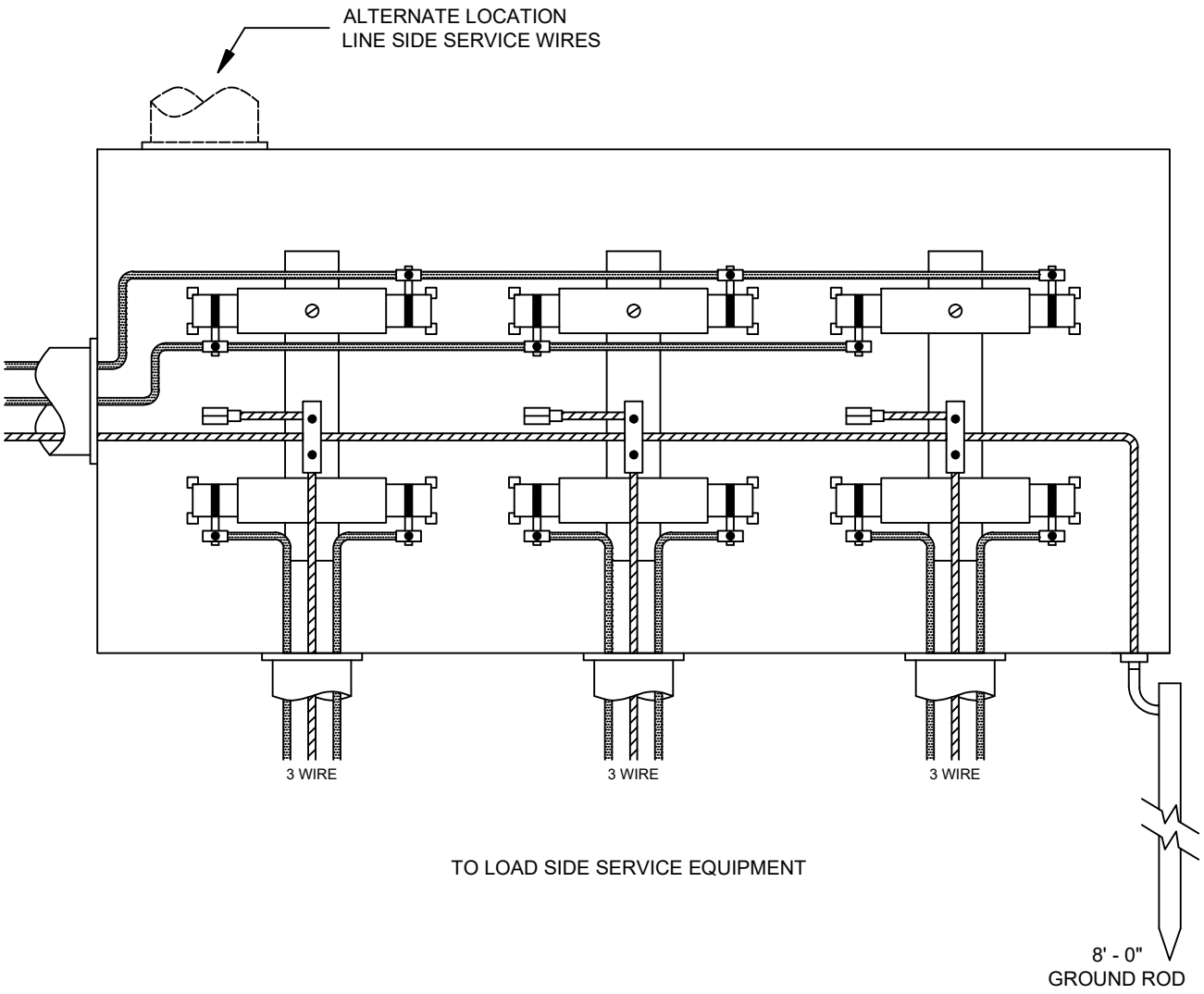
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 16
5 TERMINAL - MULTIPLE METERS VERTICAL MOUNTED TROUGH 1ϕ - 3W - 400A MAX

SCALE: N.T.S

DATE: 9/24/2020



NOTES:

1. FIFTH TERMINAL AT 9 O'CLOCK POSITION REQUIRED
2. ALL METER SOCKETS SHALL HAVE A LEVER OPERATED MANUAL BYPASS WITH JAW RELEASE AND FLASH SHIELD
3. FOR INSTALLATIONS GREATER THAN 3 SOCKET POSITIONS OR 3ϕ, CONSULT RMLD FOR ADDITIONAL REQUIREMENTS

RMLD

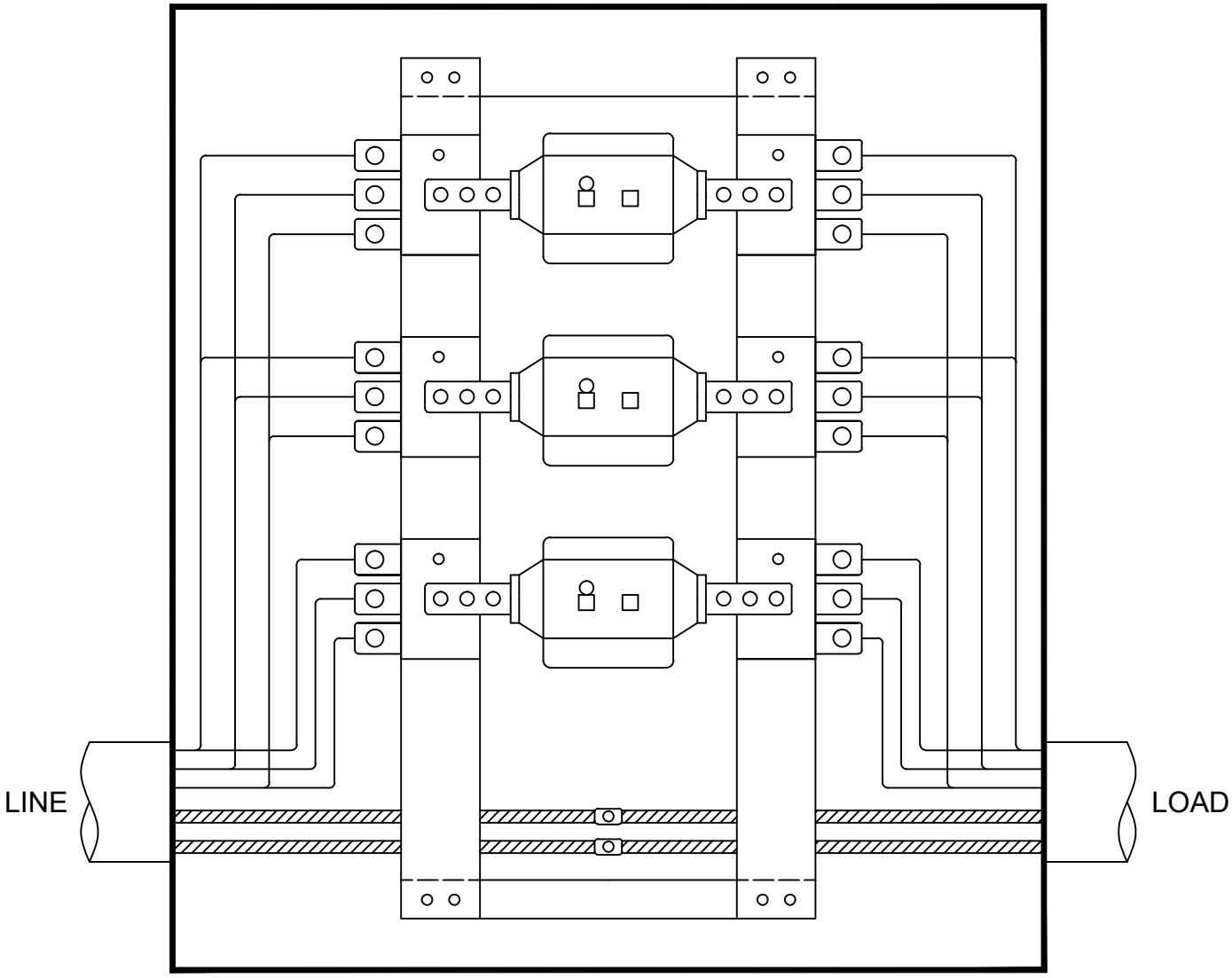
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 17
5 TERMINAL - MULTIPLE METERS HORIZONTALLY MOUNTED TROUGH 1ϕ - 3W - 400A MAX

SCALE: N.T.S

DATE: 9/24/2020



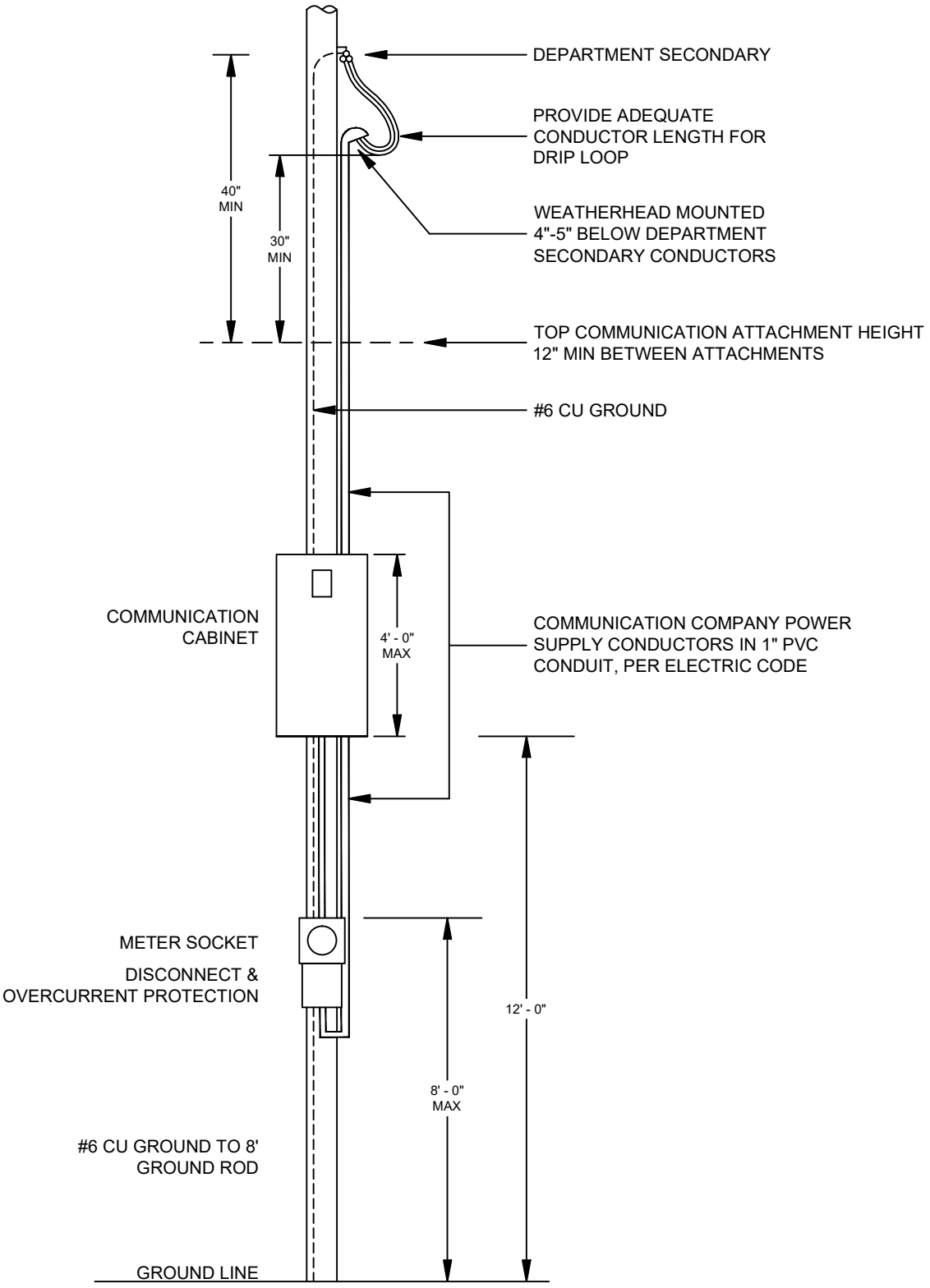
NOTES:

1. RMLD TO FURNISH AND INSTALL ALL REQUIRED CONDUCTORS FROM CT CABINET TO METER SOCKET. RMLD PROVIDES CTs, CONTROL WIRING, AND TERMINATES WIRING
2. CUSTOMER TO FURNISH AND INSTALL METER SOCKET AND CONDUIT FROM CT CABINET. CONTRACTOR TO INSTALL CTs, CONDUITS, CT CABINET, AND PULLS IN WIRING
3. WIRE LENGTH SHALL BE WITHIN 50 FT OF CT CABINET
4. CABINET BAR TYPE CT METER INSTALLATION PREFERRED
5. CONSULT RMLD REGARDING CT CABINET SIZES

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS
230 Ash St. Reading, MA 01867

FIGURE 18
CURRENT TRANSFORMATION INSTALLATION
3ϕ - 4W - 208Y/120 & 480Y/277

SCALE: N.T.S | DATE: 9/24/2020



RMLD

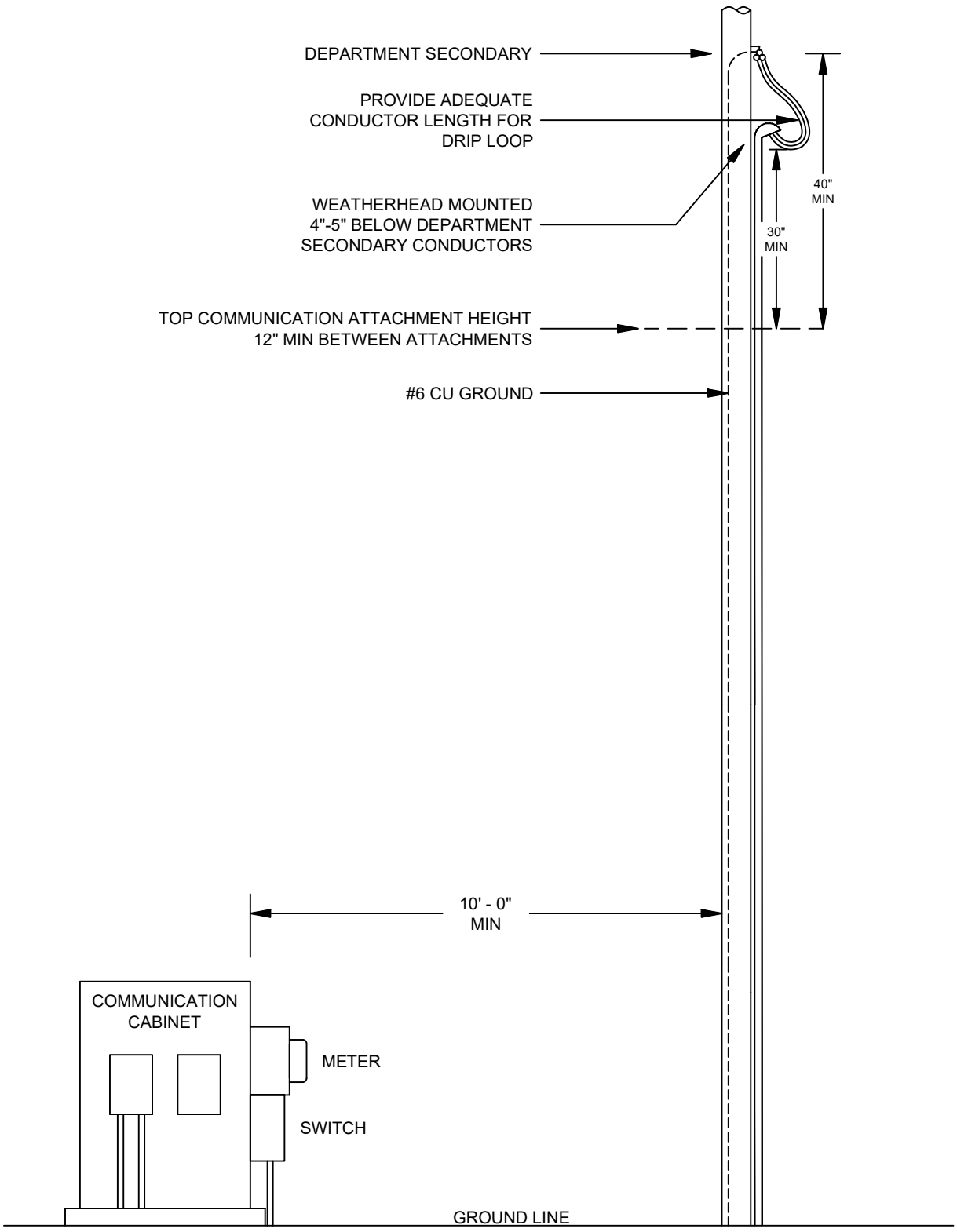
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 19
DETAIL OF METERED POWER SUPPLY FOR COMMUNICATION CABINET ON WOOD POLE

SCALE: N.T.S

DATE: 9/24/2020



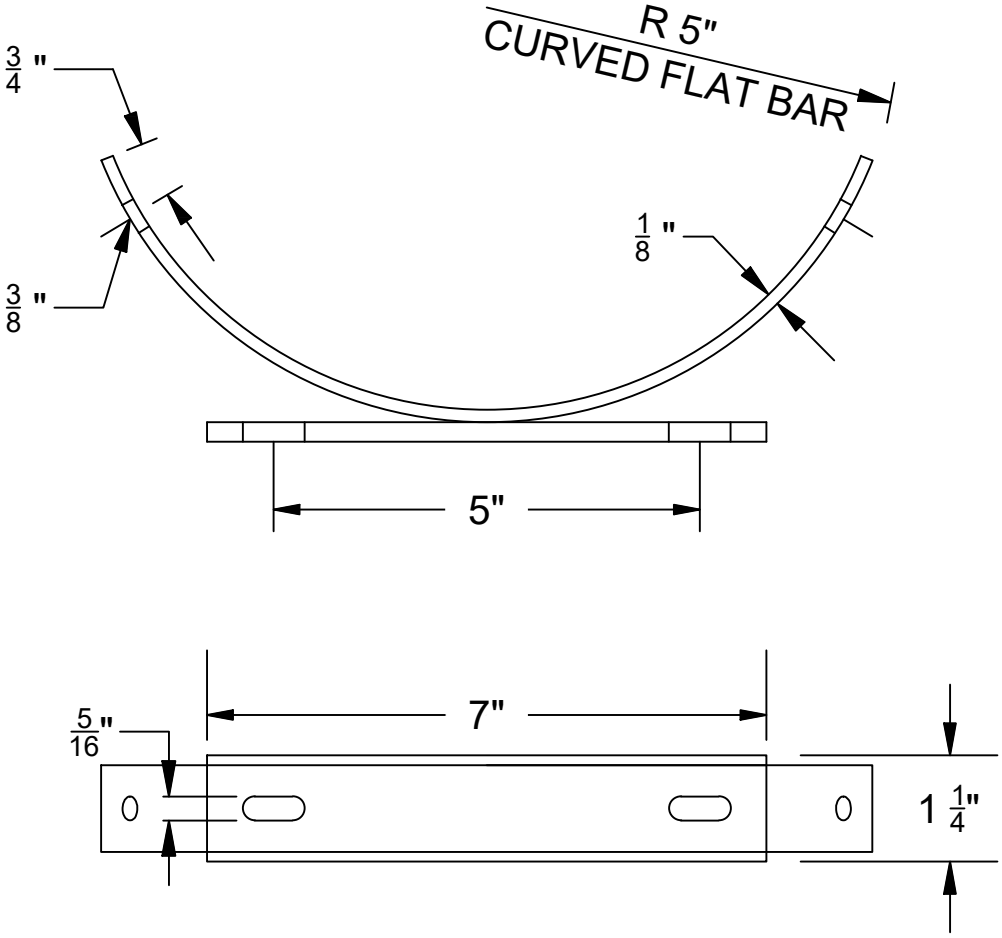
RMLD

Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 19
DETAIL OF METERED POWER SUPPLY FOR PAD MOUNTED COMMUNICATION CABINET

SCALE: N.T.S	DATE: 9/24/2020



NOTES:

1. METER BRACKET ASSEMBLY SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION

RMLD

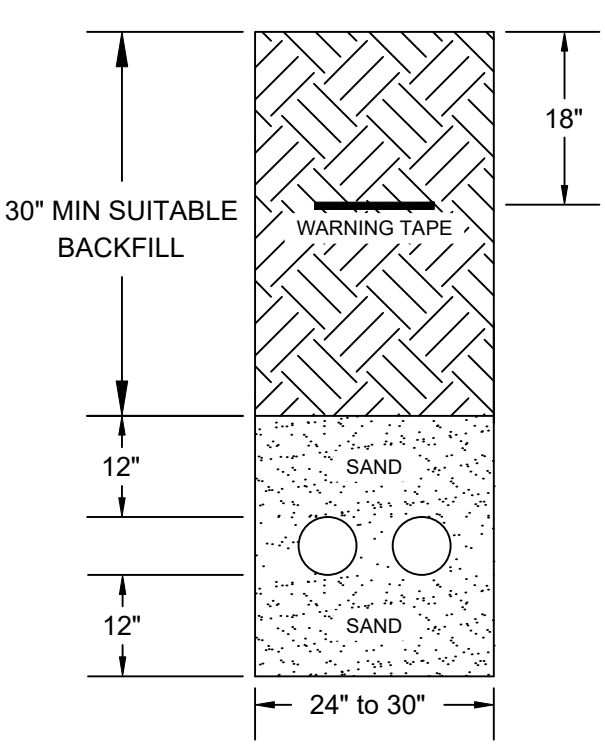
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

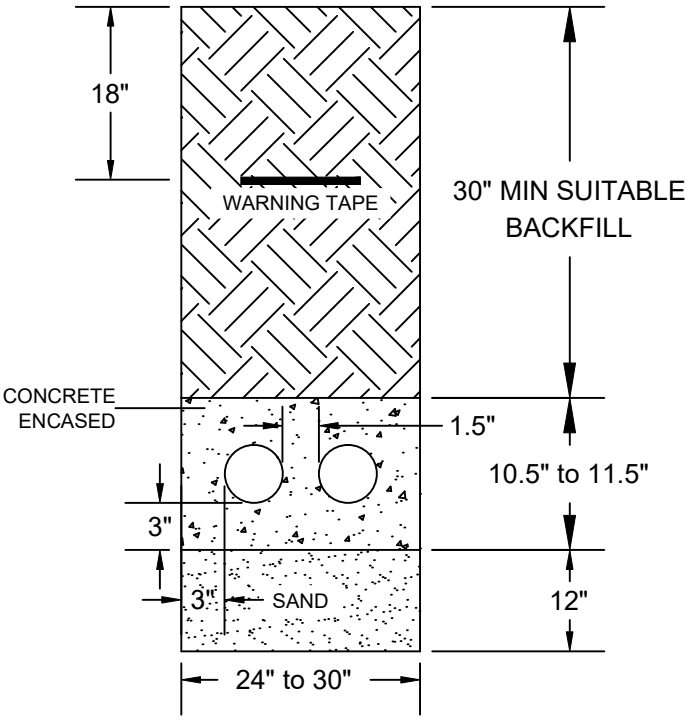
FIGURE 21
DETAIL OF METER SOCKET BRACKET ON WOOD POLE

SCALE: N.T.S

DATE: 9/24/2020



TYPICAL CROSS SECTION
TRENCH DETAIL FOR CONDUIT



TYPICAL CROSS SECTION
TRENCH DETAIL FOR CONDUIT
CONCRETE ENCASEMENT

1. SPECIFICATIONS: ALL WORK SHALL BE IN ACCORDANCE WITH THESE STANDARDS. THE NATIONAL ELECTRICAL SAFETY CODE, STATE AND LOCAL CODE REQUIREMENTS. ADDITIONAL SEPCIFICATIONS, WHEN REQUIRED, TO BE FURNISHED BY THE RMLD ENGINEERING DIVISION UPON REQUEST.

2. OWNERSHIP: CONTRACTOR SHALL FURNISH TRENCH, BACKFILL, AND CONDUIT.

3. APPROVAL: CUSTOMER SHALL OBTAIN APPROVAL OF PLANS BY THE RMLD ENGINEERING DIVISION. NO TRENCH SHALL BE BACKFILLED OR POURED WITH CONCRETE UNTIL INSPECTED BY RMLD ENGINEERING DIVISION.

4. CONDUIT: TYPICAL INSTALLATION SHOWN. TYPICAL SIZE OF CONDUITS SHALL BE 4" FOR PRIMARY AND 3" FOR SECONDARY; UNLESS OTHERWISE NOTED BY RMLD ENGINEERING.

5. SAND/FILL: PROVIDE AS SHOWN; ALL FILL BEING THOROUGHLY COMPACTED.

NOTES:
ANY VARIATION IN TRENCH SPECIFICATIONS MUST HAVE PRIOR APPROVAL OF RMLD ENGINEERING DIVISION.

ALL REQUIRED EASEMENTS SHALL BE SECURED BY THE CONTRACTOR/OWNER

"DIG SAFE" NOTIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR

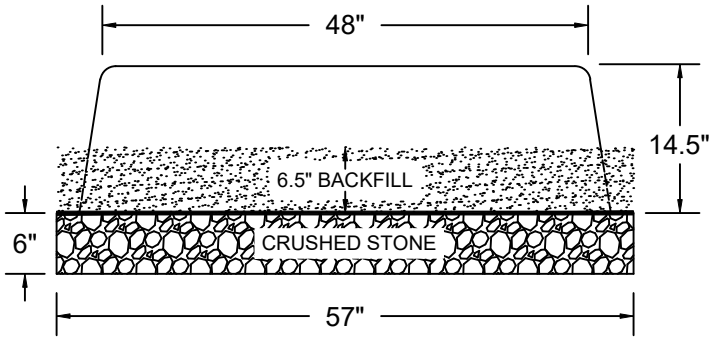
RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

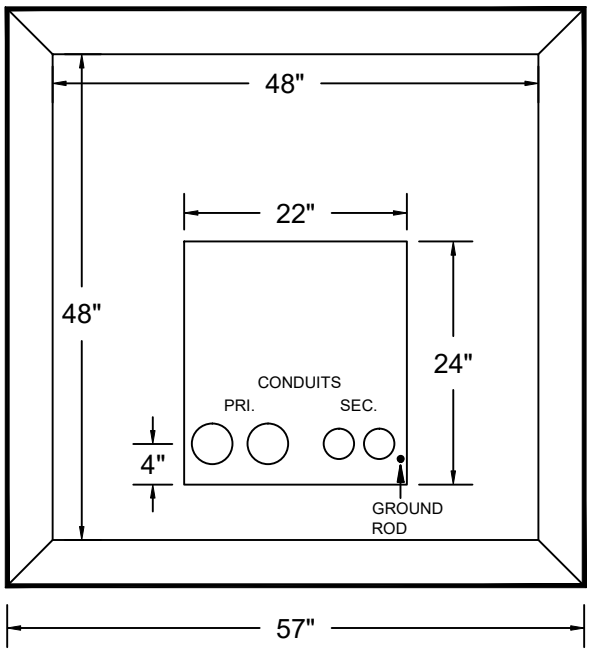
230 Ash St. Reading, MA 01867

FIGURE 22
TYPICAL TRENCH SPECIFICATIONS

SCALE: N.T.S

DATE: 9/24/2020





1. SPECIFICATIONS: ALL WORK SHALL BE IN ACCORDANCE WITH THESE STANDARDS: THE NATIONAL ELECTRICAL SAFETY CODE, STATE AND LOCAL CODE REQUIREMENTS. ADDITIONAL SPECIFICATIONS, WHEN REQUIRED, TO BE APPROVED BY THE RMLD ENGINEERING DIVISION UPON REQUEST.
2. OWNERSHIP: CONTRACTOR SHALL FURNISH TRANSFORMER PAD (PROVIDED BY RMLD), CONDUITS AND GROUNDING PROVISIONS. RMLD TO TAKE OWNERSHIP OF FACILITIES POST ENERGIZATION.
3. APPROVAL: CUSTOMER SHALL OBTAIN APPROVAL OF PLANS BY THE TOWNS ENGINEERING DIVISION AND RMLD. PLANS SHALL INCLUDE ALL ELECTRIC FACILITIES IN THEIR INTENDED LOCATIONS.
4. LOCATION/PROTECTION: PAD LOCATION TO BE APPROVED BY RMLD ENGINEERING. THERE SHALL BE NO OBSTRUCTIONS WITHIN 3' OF THE REAR AND SIDES, AND 10' IN FRONT. IN AREA OF VEHICULAR ACTIVITY, APPROVED BARRIERS SHALL BE INSTALLED BY THE CUSTOMER, AROUND THE PAD FOR MECHANICAL PROTECTION OF THE TRANSFORMER
5. CONDUIT: INSTALL AS SHOWN. PRIMARY CONDUITS INTO TRANSFORMER PAD TO BE 4", SECONDARY CONDUITS TO BE 3"; UNLESS STATED OTHERWISE BY RMLD.
6. GROUNDING: CUSTOMER TO INSTALL A SINGLE GROUND ROD IN TRANSFORMER PAD, AS SHOWN.
7. BACKFILL: PROVIDE AS SHOWN; ALL FILL BEING THOROUGHLY COMPACTED
8. CONDUCTORS: PRIMARY AND SECONDARY CABLES TO BE PULLED, TERMINATED AND LANDED ON THE TRANSFORMER IN THEIR PROPER LOCATIONS. PRIMARY CABLE TEST REPORT MUST BE PROVIDED TO RMLD ENGINEERING BEFORE TRANSFORMER CAN BE ENERGIZED.

NOTES:
ANY VARIATION IN DESIGN TO ELECTRIC FACILITIES MUST HAVE PRIOR APPROVAL OF RMLD ENGINEERING DIVISION.

ALL REQUIRED EASEMENTS SHALL BE SECURED BY THE CONTRACTOR/OWNER

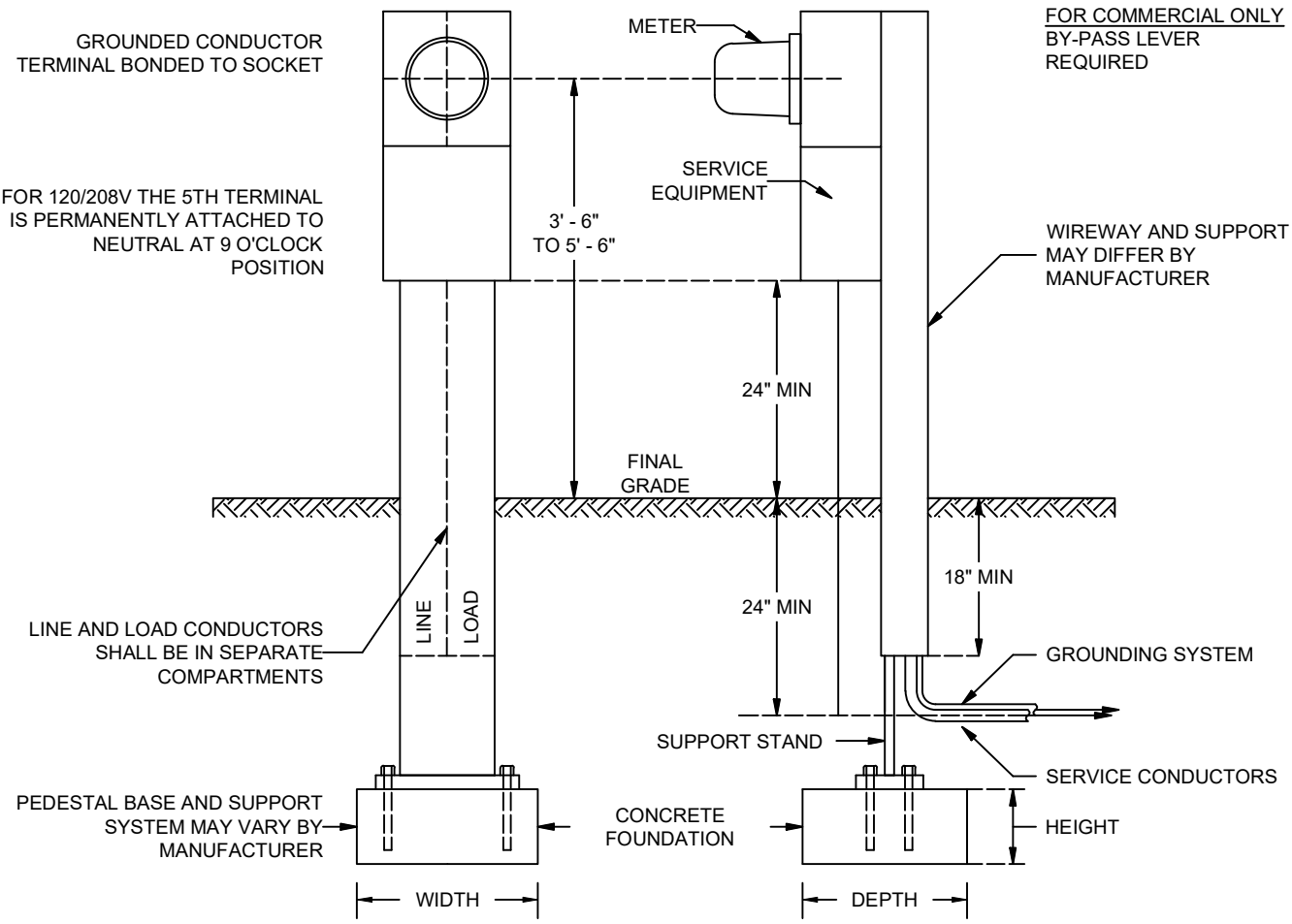
"DIG SAFE" NOTIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 23
SPECIFICATIONS FOR FIBERGLASS TRANSFORMER PAD
1ϕ - 15kV

SCALE: N.T.S | DATE: 9/24/2020



1. SPECIFICATIONS: ALL WORK SHALL BE IN ACCORDANCE WITH THESE STANDARDS: THE NATIONAL ELECTRICAL SAFETY CODE, STATE AND LOCAL CODE REQUIREMENTS. ADDITIONAL SPECIFICATIONS, WHEN REQUIRED, TO BE APPROVED BY THE RMLD ENGINEERING DIVISION UPON REQUEST. CONSULT RMLD FOR 3ϕ, 320A AND 480V APPLICATIONS.

2. OWNERSHIP: CUSTOMER TO FURNISH INSTALL AND MAINTAIN PEDESTAL. PEDESTAL SHALL MEET RMLD'S METER SOCKET ENCLOSURE REQUIREMENTS.

3. APPROVAL: CUSTOMER SHALL OBTAIN APPROVAL OF PLANS BY THE TOWNS ENGINEERING DIVISION AND RMLD. PLANS SHALL INCLUDE ALL ELECTRIC FACILITIES IN THEIR INTENDED LOCATIONS.

4. CONDUIT: TYPICAL INSTALLATION SHOWN. CONDUIT TO BE 4" SCHEDULE 40 PVC. CONDUIT UNDER ROADWAY TO BE SCHEDULE 40 PVC ENCASED IN CONCRETE, SCHEDULE 80 PVC, OR RIGID STEEL. USE 24" RADIUS BENDS. SIX (6) INCH MINIMUM CABLE SEPARATION REQUIRED BETWEEN LINE AND LOAD CABLES IN COMMON TRENCH.

5. CONSTRUCTION: CONCRETE FOOTING MINIMUM DIMENSIONS SHOWN FOR A SINGLE PEDESTAL (28" WIDE, 18" DEEP, 12" HIGH) GREATER SIZE FOOTING REQUIRED FOR MULTIPLE OR LARGER PEDESTAL UNITS.

NOTES:
ANY VARIATION IN DESIGN TO ELECTRIC FACILITIES MUST HAVE PRIOR APPROVAL OF RMLD ENGINEERING DIVISION.

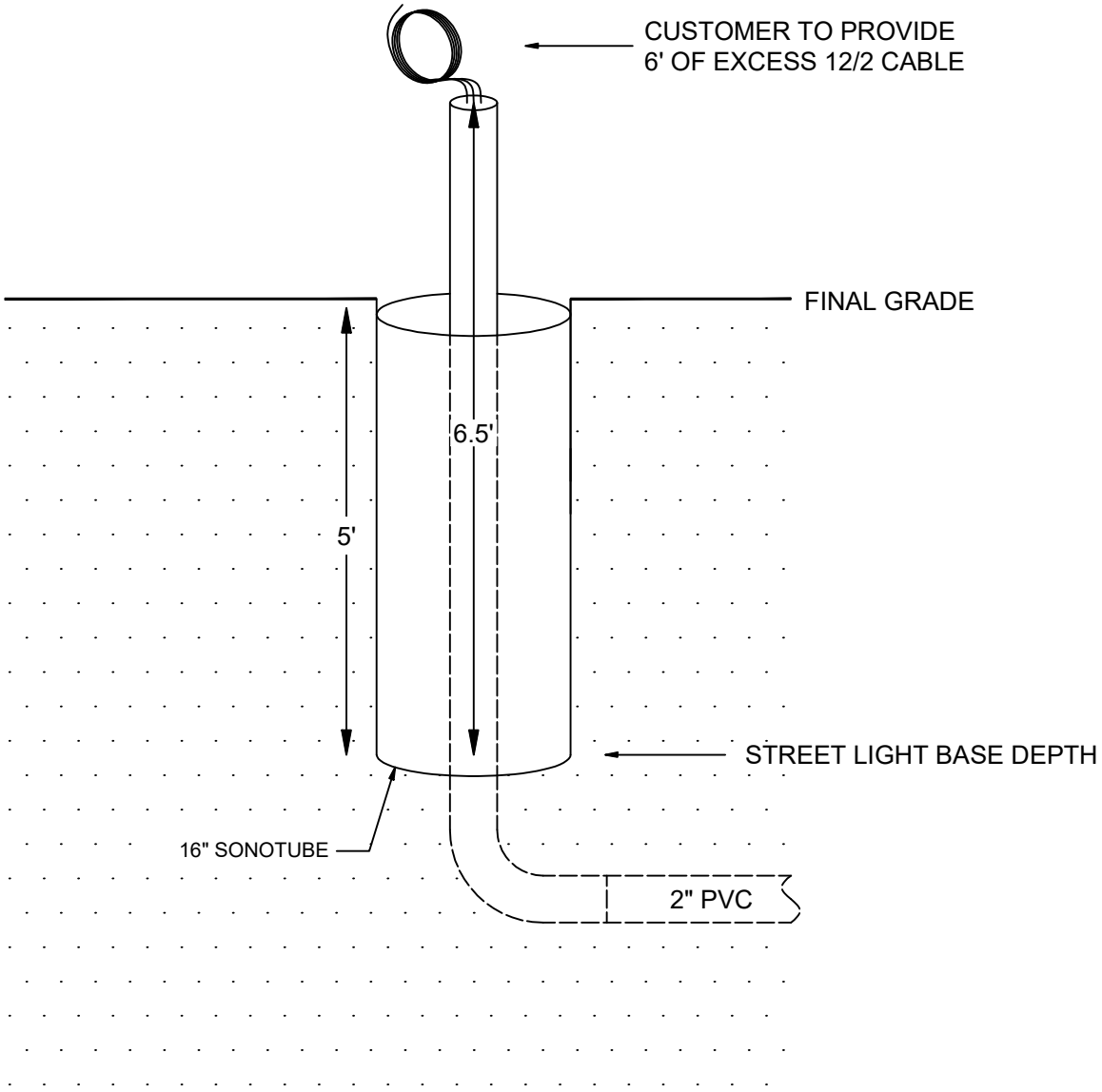
ALL REQUIRED EASEMENTS SHALL BE SECURED BY THE CONTRACTOR/OWNER

"DIG SAFE" NOTIFICATION IS THE RESPONSIBILITY OF THE CONTRACTOR

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS
230 Ash St. Reading, MA 01867

FIGURE 24
SECONDARY PEDESTAL SPECIFICATIONS
120/240V - 200A / 120/208V - 100A
METER FORM - 2S & 12S

SCALE: N.T.S | DATE: 9/24/2020



NOTES:
1. SONOTUBE TO BE CARDBOARD
2. CONDUIT FOR ELECTRICAL WIRE TO BE CENTERED IN TUBE
3. DEVELOPER TO PROVIDE 1/5 YARD OF SAND FOR BACKFILL

RMLD

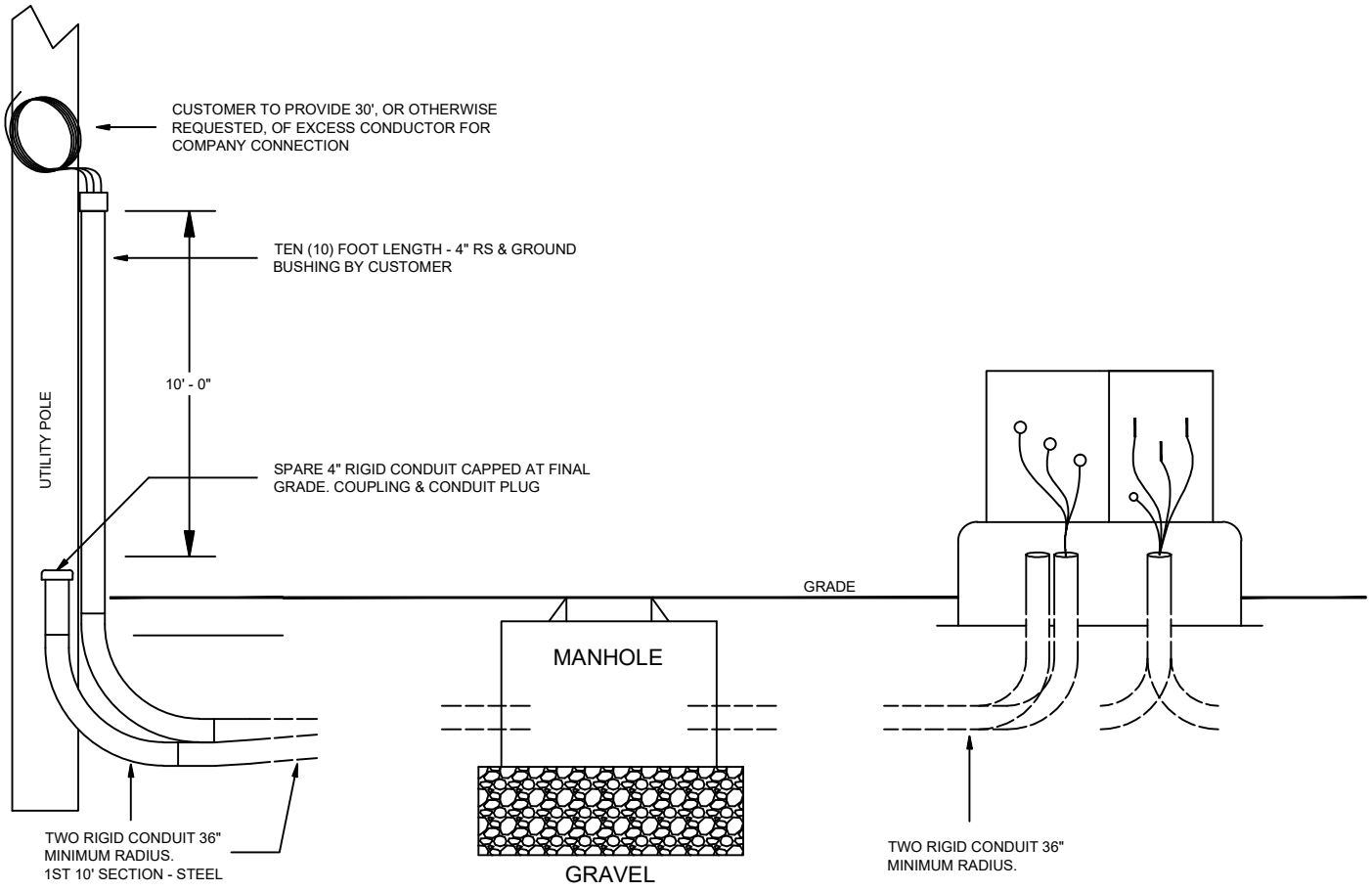
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 25
INSTALLATION PREPARATION FOR
FIBERGLASS STREETLIGHT POLE

SCALE: N.T.S

DATE: 9/24/2020



NOTES:

1. RISER POLE AND TERMINATION MOUNTING BRACKET BY READING MUNICIPAL LIGHT DEPARTMENT
2. TRANSFORMER BY READING MUNICIPAL LIGHT DEPARTMENT (UPTO 500KVA)
3. PRIMARY CABLE SUPPORT ABOVE 10FT LEVEL BY RMLD
4. UG PRIMARY CONDUIT, SWEEP, AND 10' STEEL UP POLE BY CONTRACTORS (1ST 10' SECTION FROM POLE - STEEL)
5. TRANSFORMER PAD BY CONTRACTOR, CONCRETE PAD TO BE BUILT TO RMLD SPECIFICATIONS.
6. PRIMARY AND SECONDARY CONDUIT, CABLES, AND TERMINATIONS BY CONTRACTOR. SECONDARY CONNECTIONS BY CONTRACTOR. PRIMARY CONNECTIONS AT RISER POLE BY RMLD.
7. EXPENSE INCURRED BY RMLD (MATERIAL, LABOR, ETC) WILL BE BILLED TO THE OWNER AND/OR DEVELOPER OF THE PROPERTY TO BE SERVED

RMLD

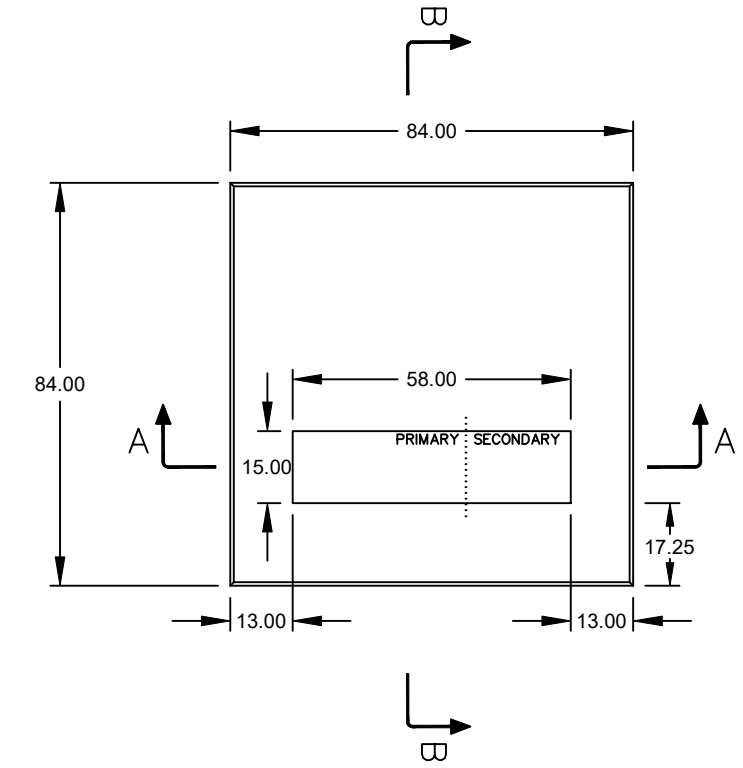
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

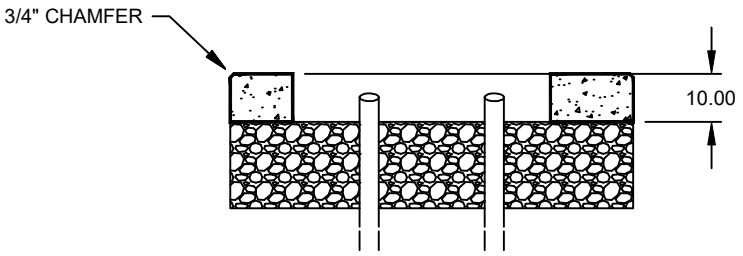
230 Ash St. Reading, MA 01867

FIGURE 26
RISER POLE - SPECIFICATION FOR PAD MOUNT INSTALLATION

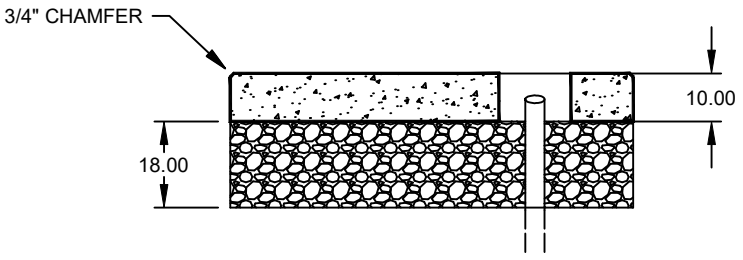
SCALE: N.T.S	DATE: 9/24/2020

ALL UNITS IN INCHES





SECTION A–A



SECTION B–B

1. SPECIFICATIONS: ALL WORK SHALL BE IN ACCORDANCE WITH THESE STANDARDS. THE NATIONAL ELECTRICAL SAFETY CODE, STATE AND LOCAL CODE REQUIREMENTS. ADDITIONAL SPECIFICATIONS, WHEN REQUIRED, TO BE FURNISHED BY THE RMLD ENGINEERING DIVISION UPON REQUEST.
2. OWNERSHIP: CONTRACTOR SHALL FURNISH AND OWN CONCRETE PAD, GROUND GRID, CONDUITS AND GROUND WIRES
3. APPROVAL: CUSTOMER SHALL OBTAIN APPROVAL OF PLANS BY THE WIRE INSPECTOR AND RMLD . PLANS SHALL SHOW CONCRETE PAD, ALSO CONDUITS, LOCATION, TYPE, SIZE AND NUMBER
4. LOCATION / PROTECTION: PAD LOCATION TO BE APPROVED BY RMLD. THERE SHALL BE NO OBSTRUCTIONS WITHIN 4' OF THE REAR, OF THE SIDES, AND 12' OF THE FRONT. IN AREAS OF VEHICULAR ACTIVITY APPROVED BARRIERS SHALL BE INSTALLED, BY THE CUSTOMER, AROUND THE PAD FOR MECHANICAL PROTECTION OF THE TRANSFORMER.
5. CONDUIT: INSTALL AS SHOWN. CONDUIT TO BE 4" IN DIAMETER FOR PRIMARY AND 3" FOR SECONDARY, USE 36" RADIUS BENDS. TERMINATIONS OF CONDUITS FOR PRIMARY AND SECONDARY SHALL BE INSTALLED IN THEIR RESPECTIVE ZONES; PRIMARY ON LEFT, SECONDARY ON RIGHT (WHEN FACING THE FRONT DOORS OF TRANSFORMER).
6. GROUND GRID: CONTRACTOR TO INSTALL, 1/0 STR (7 STRANDS) BARE COPPER WIRE LOOP 12" BELOW PAD GRADE. LEAVE 36" WIRE ABOVE PAD AT TWO OPPPOSITE POINTS IN THE CONDUIT OPENINGS, FOR GROUNDING OF THE TRANSFORMER. DRIVE FOUR (4) 3/4" BY 8' COPPERWELD GROUND RODS IN EACH CORNER OF PAD AND BOND TO GROUND WIRE
7. BACKFILL: ALL FILL BEING THOROUGHLY COMPACTED
8. CONCRETE PAD: CONCRETE MINIMUM STRENGTH 5,000 PSI AFTER 28 DAYS, ALL REINFORCEMENT PER ASTM A-615, ALL MATERIAL CONFORM TO ACI-318
9. CONDUCTORS: PRIMARY AND SECONDARY CONDUCTORS AND TERMINATIONS TO BE INSTALL BY CUSTOMER. PRIMARY CONNECTION AT RISER POLE TO BE DONE BY RMLD. CABLE TEST REPORT REQUIRED BEFORE CABLE CAN BE ENERGIZED.

RMLD

Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

230 Ash St. Reading, MA 01867

FIGURE 27
CONCRETE PAD (84x84) UP TO 500KVA

SCALE: N.T.S

DATE: 9/24/2020