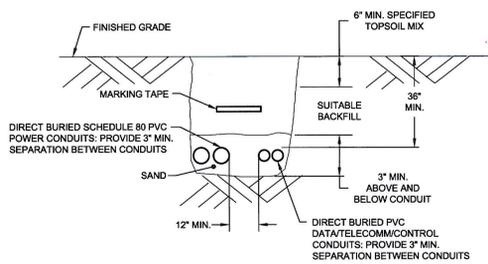


**1 CONCRETE ENCASED DUCTBANK
DETAIL - BGE CONDUCTORS**

SCALE: NOT TO SCALE

DETAIL NOTES:

1. THIS DETAIL APPLIES WHERE BGE CONDUCTORS ARE USED FOR SECONDARY CONDUCTORS.
2. CAREFULLY EXCAVATE, TRENCH, BACKFILL, COMPACT SOIL AND RETURN TO ORIGINAL CONDITION.
3. DETAIL SHOWS TYPICAL DIMENSIONS. ADJUST TO SUITE SPECIFIED DUCT CONFIGURATION.
4. INSTALL #4 REINFORCEMENT BARS THRU THE OUTSIDE EDGES OF THE DUCT SPACER TO PROVIDE TEMPORARY ANCHORING TO PREVENT CONDUIT FROM FLOATING OR CHANGING ALIGNMENT WHILE POURING ENVELOPE.
5. SPACERS REQUIRED EVERY 6'-6" TO 7'.
6. PROVIDE CONDUIT, SPACING AND DUCT SPACERS IN ACCORDANCE WITH ALL APPLICABLE BGE REQUIREMENTS.

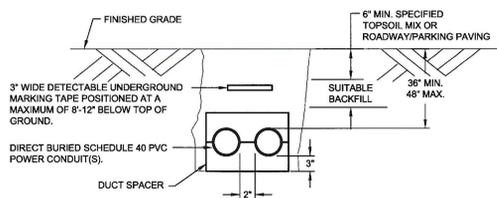


**4 DIRECT BURIED CONDUIT DETAIL -
NON-BGE CONDUCTORS**

SCALE: NOT TO SCALE

DETAIL NOTES:

1. CAREFULLY EXCAVATE, TRENCH, BACKFILL, COMPACT SOIL AND RETURN TO ORIGINAL CONDITION.

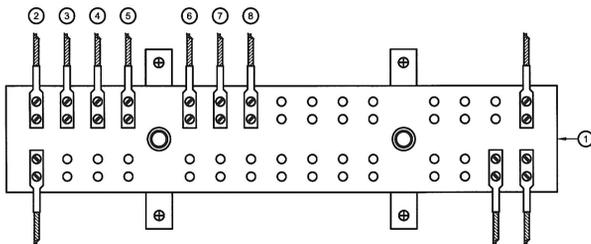


**2 DIRECT BURIED CONDUIT DETAIL -
BGE CONDUCTORS**

SCALE: NOT TO SCALE

DETAIL NOTES:

1. THIS DETAIL APPLIES WHERE BGE CONDUCTORS ARE USED FOR PRIMARY CONDUCTORS.
2. CAREFULLY EXCAVATE, TRENCH, BACKFILL, COMPACT SOIL AND RETURN TO ORIGINAL CONDITION.
3. PROVIDE CONDUIT, SPACING AND DUCT SPACERS IN ACCORDANCE WITH ALL APPLICABLE BGE REQUIREMENTS.

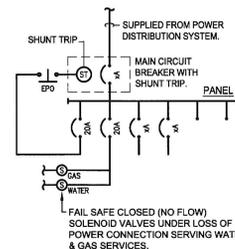


**5 SERVICE ENTRANCE - POWER
SYSTEM GROUNDING DETAIL**

SCALE: NOT TO SCALE

DETAIL DRAWING NOTES:

1. PROVIDE COPPER BUS BAR (MINIMUM 1/4" X 2") IN MAIN ELECTRICAL ROOM CONTAINING SWITCHBOARD MDS. MOUNT THE BUS BAR USING STAND-OFF INSULATORS. SIZE BUS BAR TO ALLOW FOR PROPOSED AND FUTURE CONNECTIONS.
2. PROVIDE (1) #3/0 COPPER CONDUCTOR TO SWITCHBOARD MDS.
3. PROVIDE (1) #3/0 COPPER CONDUCTOR TO METAL COLD WATER SERVICE ENTRANCE (CONNECT AT THE LOCATION WHERE PIPE ENTERS THE BUILDING AND BEFORE METERS AND FILTERS).
4. PROVIDE (1) #3/0 COPPER CONDUCTOR TO NEAREST BUILDING STRUCTURAL STEEL.
5. PROVIDE (1) #3/0 COPPER CONDUCTOR TO CONCRETE-ENCASED ELECTRODE. COORDINATE THIS CONNECTION WITH FOUNDATION INSTALLER PRIOR TO CONCRETE POUR.
6. PROVIDE (1) #3/0 COPPER CONDUCTOR TO GROUND ROD(S).
7. PROVIDE (1) #3/0 COPPER CONDUCTOR TO MAIN TELECOM GROUNDING BUS BAR LOCATED IN ROOM A112. PROVIDE CONTINUATION TO ALL OTHER TELECOM ROOMS. COORDINATE WITH TELECOM CONTRACTOR.
8. PROVIDE (1) #3/0 COPPER CONDUCTOR TO LIGHTNING PROTECTION SYSTEM.



3 SHUNT TRIP CONNECTION DIAGRAM

SCALE: NOT TO SCALE

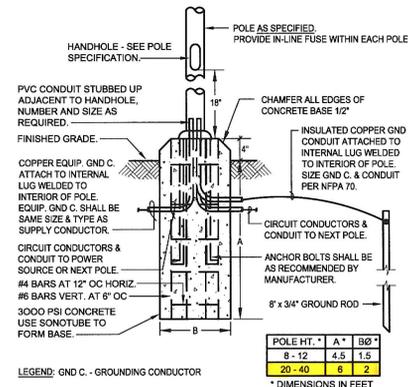
GENERAL NOTES:

1. REFER TO E001 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

PROVIDE YELLOW, TURN-TO-RESET (SUSTAINED CONTACTS) PUSH BUTTON WITH UNIVERSAL TAMPER COVER, (2) SETS OF FORM-C CONTACTS & TEXT READING "EMERGENCY POWER OFF" (ST1 STOPPER STATION SERIES SS2-2-PO OR APPROVED EQUAL)

SEQUENCE OF OPERATION:

ACTIVATION OF 'EPO' SWITCH SHALL OPEN MAIN CIRCUIT BREAKER. RESET REQUIRES RESET AT THE 'EPO' SWITCH & THEN MANUAL CLOSING OF PANEL MAIN CIRCUIT BREAKER.



6 CONCRETE POLE BASE DETAIL

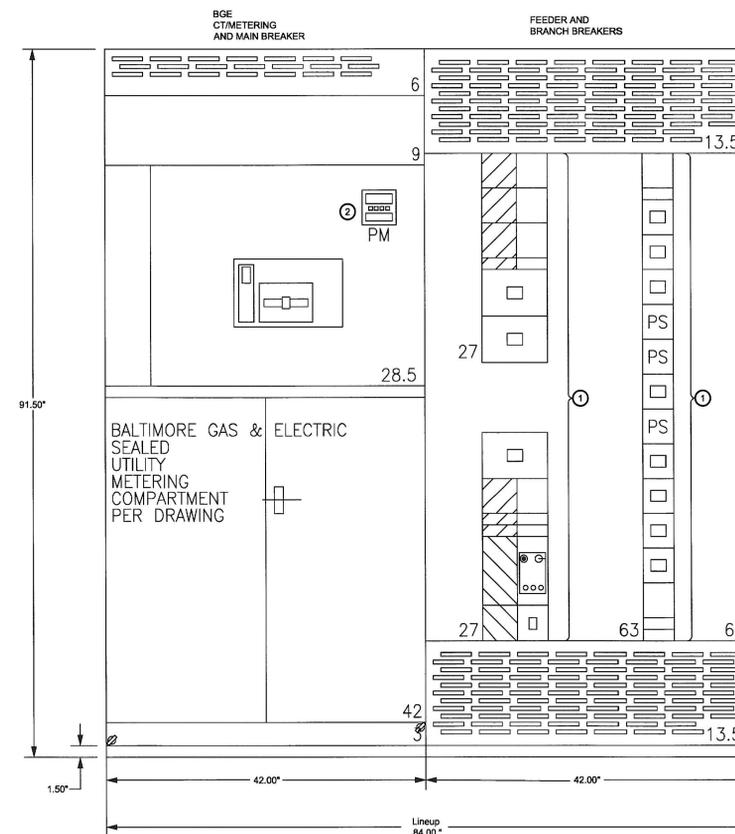
SCALE: NONE

POLE BASE DETAIL IS FOR TYPES 'X' AND 'X1' INSTALLED IN GRASS AREAS. REFER TO LANDSCAPE DRAWINGS FOR POLE BASE DETAIL FOR TYPE 'X' AND 'Y' FIXTURES INSTALLED IN PAVERS.

LEGEND: GND C. - GROUNDING CONDUCTOR

POLE HT. -'	A'	B@'
8 - 12	4.5	1.5
20 - 40	6	2

* DIMENSIONS IN FEET



7 SWITCHBOARD MDS ELEVATION - DETAIL

SCALE: NONE

DRAWING NOTES:

1. PROVIDE SPARE USABLE BUS SPACE.
2. PROVIDE DIGITAL POWER MONITOR.

DETAIL NOTES:

1. SWITCHBOARD SHALL BE NO LARGER THAN DIMENSIONS SHOWN ON THIS DRAWING.
2. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION AND CONNECTIVITY.



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SEAL:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NUM: EXP DATE:

PROJECT:

**INNOVATIVE
LEARNING
CENTER**
NEW MIDDLE SCHOOL

500 CHESTNUT AVE
TOWSON, MD 21204

PREPARED FOR:

LOYOLA BLAKEFIELD

500 CHESTNUT AVE
TOWSON, MD 21204

1 12-06-2019 CONFORMED SET

MARK DATE DESCRIPTION

PROJECT NO: 18-00386-001

DATE: AUGUST 30, 2019

SCALE: As indicated

DESIGNED BY:

DRAWN BY:

CHECKED BY:

DRAWING TITLE:

ELECTRICAL DETAILS

SHEET NUMBER:

E601