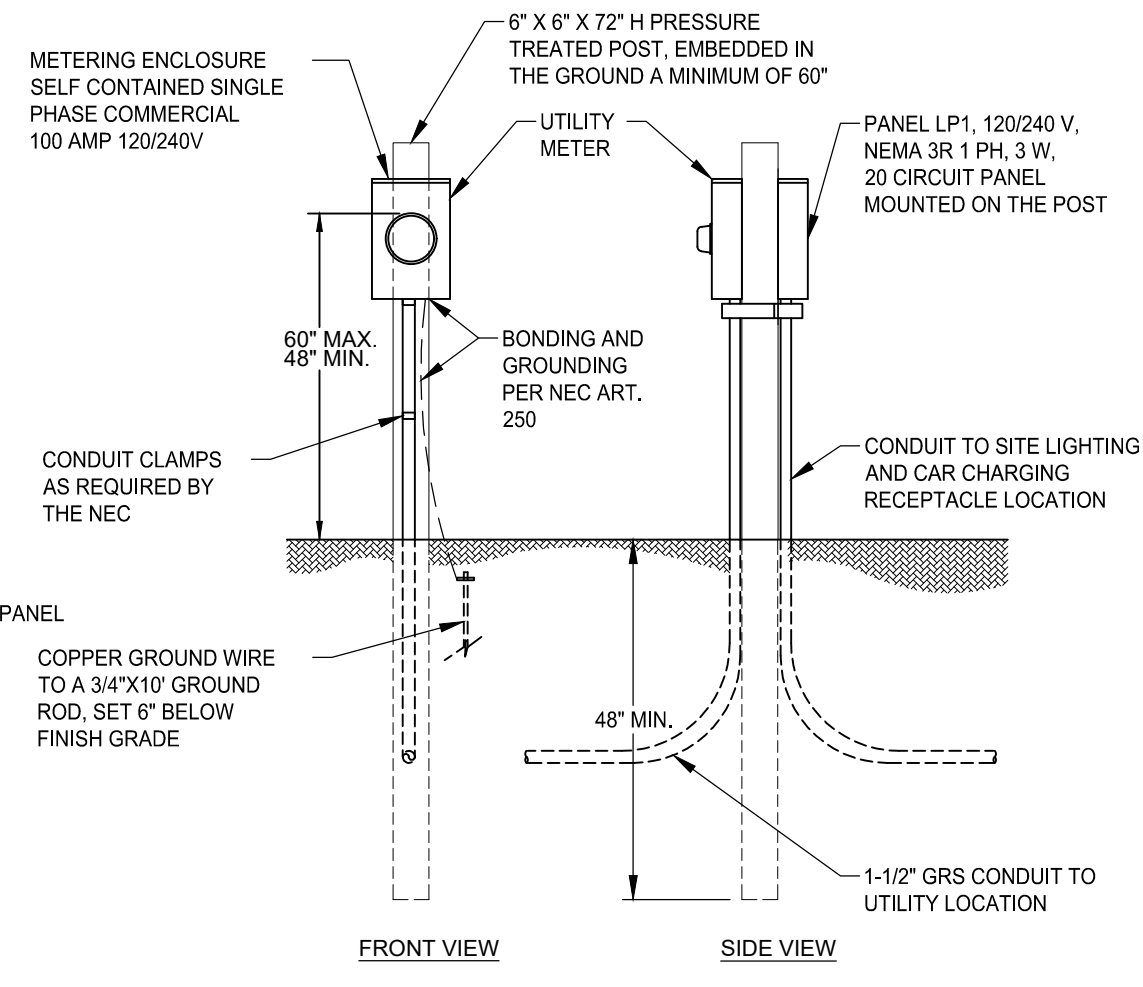
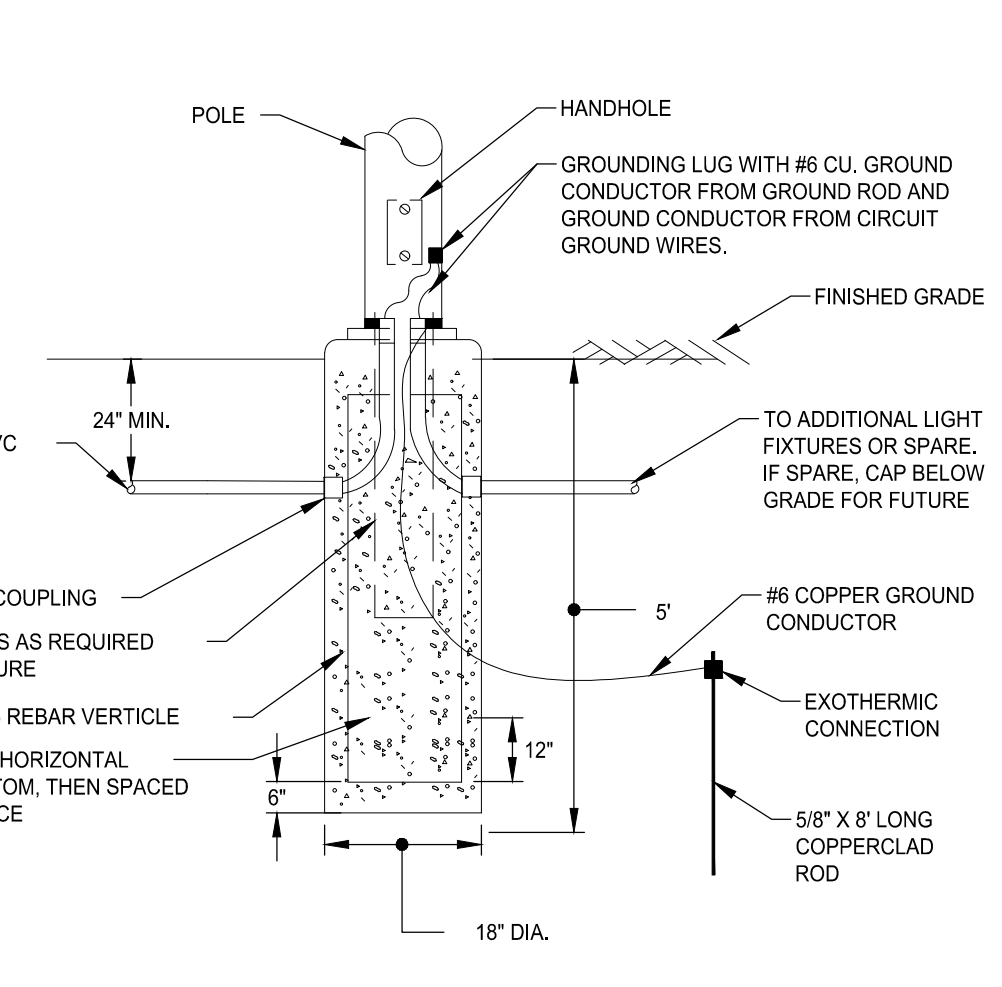


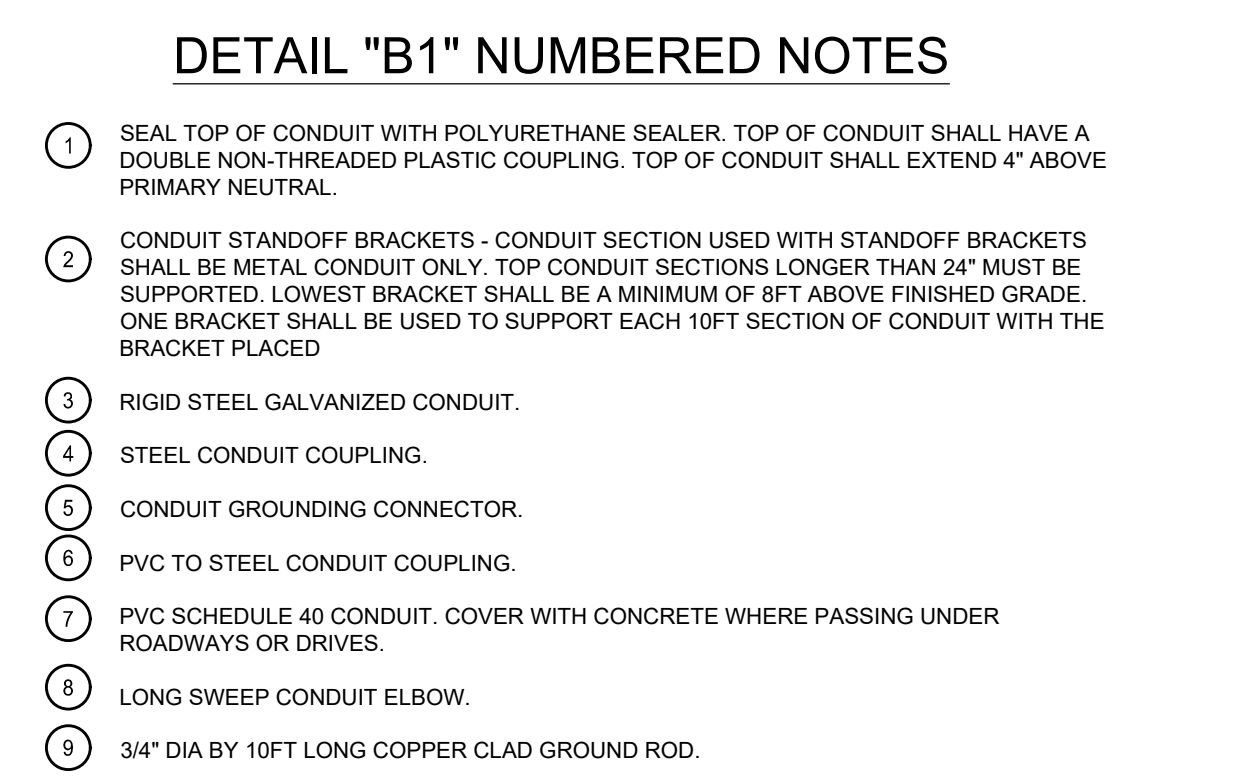
A2 UNIVERSAL PEDESTAL CHARGER DETAIL
NOT TO SCALE



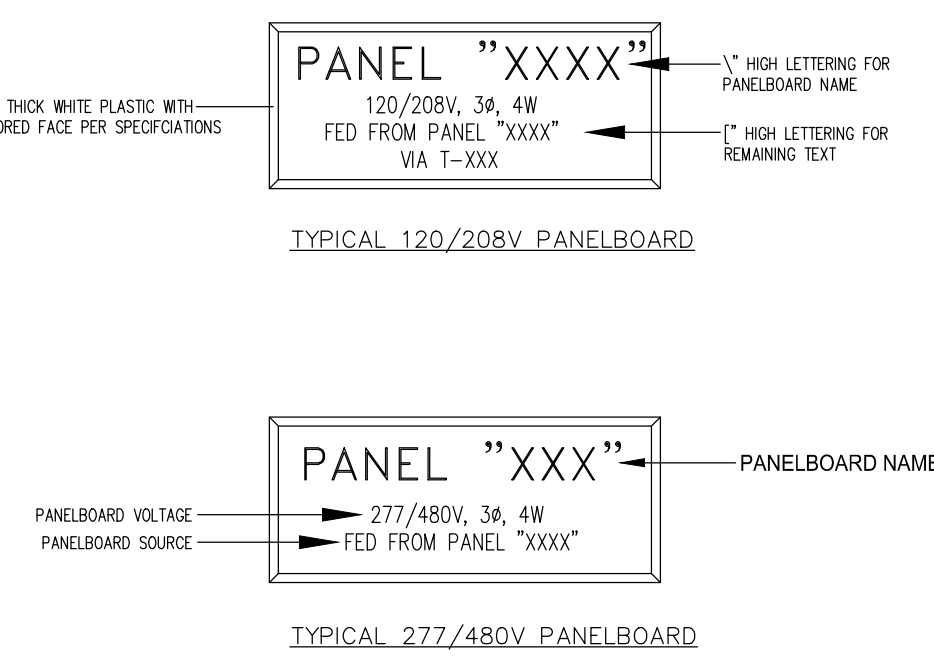
A3 POST MOUNTED CT METER DETAIL
NOT TO SCALE



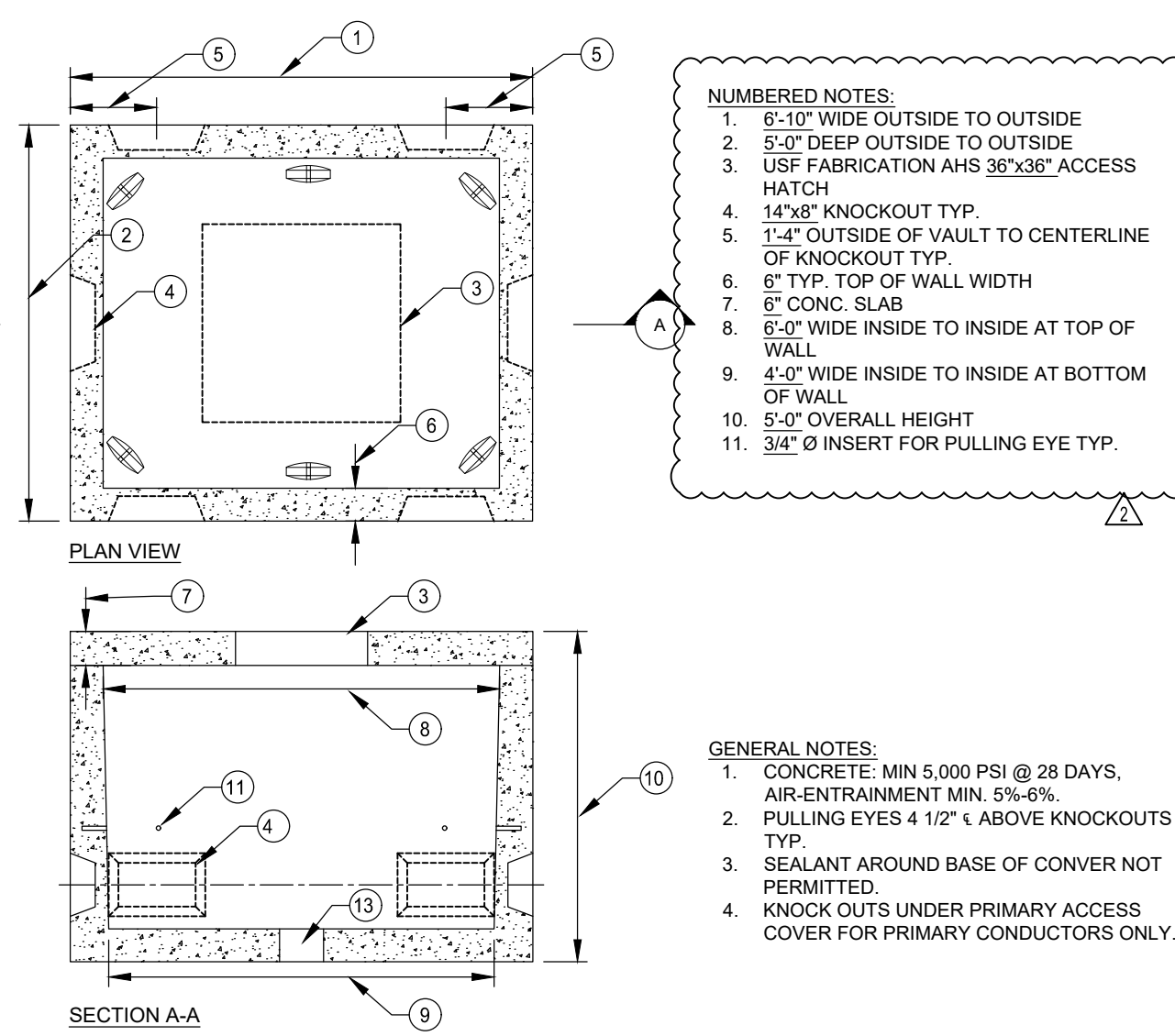
A4 LIGHT POLE BASE DETAIL
NOT TO SCALE



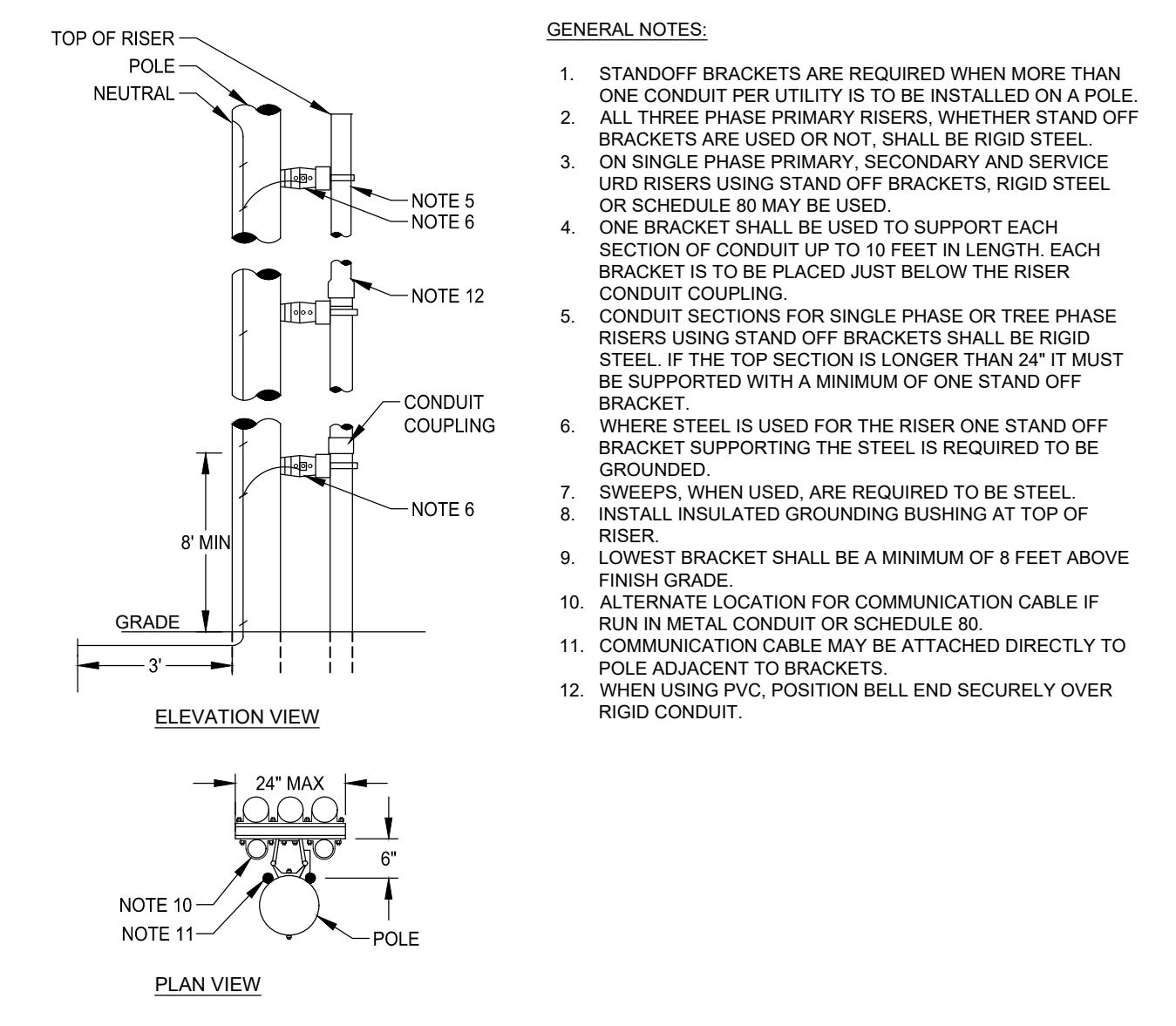
B1 UTILITY COMPANY POLE RISER DETAIL
NOT TO SCALE



B2 PANELBOARD NAMEPLATE
NOT TO SCALE



A5 ELECTRICAL VAULT DETAIL
NOT TO SCALE



A6 CONDUIT STANDOFF BRACKET DETAIL
NOT TO SCALE

- DETAIL "B1" NUMBERED NOTES**
- SEAL TOP OF CONDUIT WITH POLYURETHANE SEALER. TOP OF CONDUIT SHALL HAVE A DOUBLE NON-THREADED PLASTIC COUPLING. TOP OF CONDUIT SHALL EXTEND 4" ABOVE PRIMARY NEUTRAL.
 - CONDUIT STANDOFF BRACKETS - CONDUIT SECTION USED WITH STANDOFF BRACKETS SHALL BE METAL CONDUIT ONLY. TOP CONDUIT SECTIONS LONGER THAN 24" MUST BE SUPPORTED. LOWEST BRACKET SHALL BE A MINIMUM OF 8 FT ABOVE FINISHED GRADE. ONE BRACKET SHALL BE USED TO SUPPORT EACH 10 FT SECTION OF CONDUIT WITH THE BRACKET PLACED
 - RIGID STEEL GALVANIZED CONDUIT.
 - STEEL CONDUIT COUPLING.
 - CONDUIT GROUNDING CONNECTOR.
 - PVC TO STEEL CONDUIT COUPLING.
 - PVC SCHEDULE 40 CONDUIT. COVER WITH CONCRETE WHERE PASSING UNDER ROADWAYS OR DRIVES.
 - LONG SWEEP CONDUIT ELBOW.
 - 3/4" DIA BY 10 FT LONG COPPER CLAD GROUND ROD.

FITURE LETTER	DESCRIPTION	MANUFACTURER & CATALOG NUMBER	MOUNTING	LAMPS		VOLTS	REMARKS
				TYPE	WATTS		
A	LED SHORT ARM POLE LIGHT, DIE CAST ALUMINUM, TYPE II DISTRIBUTION WITH FULL CUT-OFF, 1550 mA DRIVE CURRENT PHOTOCELL, WHITE FINISH, 14 FOOT POLE HEIGHT, ROUND STRAIGHT ALUMINUM WITH STANDARD BASE COVER WITH WHITE FINISH	SELUX DSC4L-S1-G4105-R3-30-18W-240-PC - POLE #A3S-164W-8CS	ROUND 16" POLE	LED	100	240	PROVIDE WITH INTERGRAL PHOTO EYE CONTROL.
B	GREY LED UTILITY POLE MOUNTED ROADWAY FIXTURE, FULL CUT OFF FIXTURE WITH GLARE CONTROL, A MINIMUM OF 5000 LUMENS, 2700 K COLOR TEMPERATURE, TYPE II MEDIUM OPTIC PACKAGE, UNIVERSAL VOLTAGE DRIVER WITH NEMA 7 PIN PHOTOCCELL RECEPTACLE.	CREE LIGHTING RSWS-A-HM-2ME-SL-27K9-UL-GY-N-RUL-ARM24	UTILITY POLE	LED	53	UNIVERSAL	PROVIDE WITH PHOTOCCELL AND SHORTING CAP AND 24" HORIZONTAL TENON # RUL-ARM24, AND ALL REQUIRED FUSING TO CONNECT TO THE UTILITY LIGHTING SECONDARY

BRANCH CIRCUIT		KILO VOLT AMPS		CIRCUIT BREAKER		KILO VOLT AMPS		DEVICE	
AMPS TRIP	POLES	DESCRIPTION	KILO VOLT AMPS	PHASE A	PHASE B	PHASE C	KILO VOLT AMPS	DESCRIPTION	POLES
20	2	STREET POLE LIGHTING	0.5	1	3.7	2	3.2	ELECTRIC CAR CHARGER	2
40	2	SPARE	5	3.2	6	3.2	ELECTRIC CAR CHARGER	2	
20	1	SPARE	9		10		SPARE	2	
20	1	SPARE	11		12		SPARE	2	
TOTAL KVA:									13.80
TOTAL AMPS:									57.50

ELECTRICAL LIGHTING LEGEND

- (REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION, NOT ALL FIXTURES ARE ACTUAL SIZE)
- CEILING RECESSED 2'x4' LIGHTING FIXTURE TYPE 'A', CONTROLLED BY SWITCH 'N' AND CONNECTED TO CIRCUIT NUMBER 'Z'
 - CEILING RECESSED 2'x2' LIGHTING FIXTURE
 - UNDER COUNTER LIGHTING
 - SURFACE MOUNTED/PENDANT/CHAIN HUNG LINEAR LIGHTING FIXTURE
 - CEILING RECESSED LIGHTING FIXTURE
 - WALL MOUNTED SCONCE LIGHTING FIXTURE
 - CEILING PENDANT
 - WALL MOUNTED LINEAR LIGHTING FIXTURE
 - TRACK MOUNTED LIGHTING FIXTURE QUANTITY AS INDICATED BY THE NUMBER OF HEADS SHOWN
 - AREA POST TOP LIGHTING
 - STREET/AREA LIGHTING ON A BRACKET
 - ROUND/OVAL STREET/AREA LIGHTING WITH BASE - SINGLE FIXTURE
 - SQUARE/RECTANGLE STREET/AREA LIGHTING WITH BASE - SINGLE FIXTURE
 - ROUND/OVAL STREET/AREA LIGHTING WITH BASE - DUAL FIXTURE
 - SQUARE/RECTANGLE STREET/AREA LIGHTING WITH BASE - DUAL FIXTURE
 - EMERGENCY (LIFE SAFETY) LIGHTING FIXTURES - 'NL' DENOTES NIGHT LIGHT, 'EM' DENOTES BATTERY PACK
 - EMERGENCY (CRITICAL) LIGHTING FIXTURES
 - EXIT LIGHT FIXTURE, CEILING AND WALL MOUNT RESPECTIVELY. SHADING INDICATES DIRECTION OF FACE(S). DIRECTIONAL ARROWS AS INDICATED ON PLANS.
 - DUAL HEAD EMERGENCY LIGHTING FIXTURE WITH 90 MINUTES OF BATTERY BACK-UP

CIRCUITRY, RACEWAYS AND FEEDERS LEGEND

- LP2#1.3.5 HOMERUN TO PANEL "LP2A", CIRCUIT #1.3.5 (VIA 20A-1P C/B'S). TICKS INDICATE QUANTITY OF #12AWG. (CU.) CONDUCTORS. GROUNDING CONDUCTORS ARE NOT INDICATED IN TICKS. PROVIDE GROUNDING CONDUCTOR IN ACCORDANCE WITH SPECIFICATIONS.
- FEEDER SIZE TAG SYMBOL, REFER TO "LEGEND OF FEEDER SIZES".
 - CIRCUITRY TURNING UP
 - CIRCUITRY TURNING DOWN
 - 1 3/4" x 3/4" SECTION SURFACE METAL RACEWAY WITH FULL SIZE DEVICES AS INDICATED ON CENTER.
 - CABLE TRAY

EXISTING EQUIPMENT LEGEND

- DOTTED INDICATES EXISTING EQUIPMENT (REFER TO LEGEND FOR TYPE).
- (E) EXISTING TO REMAIN
- (R) EXISTING TO BE DISCONNECTED AND REMOVED
- (RL) EXISTING TO BE DISCONNECTED AND RELOCATED
- (ER) EXISTING IN NEW LOCATION
- (RP) EXISTING TO BE REPLACED
- (N) NEW

CESINC
Engineers • Environmental Scientists • Surveyors

1000 South Main Street
Burlington, VT 05401
Phone: 802-255-1111
Fax: 802-255-1112

NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE

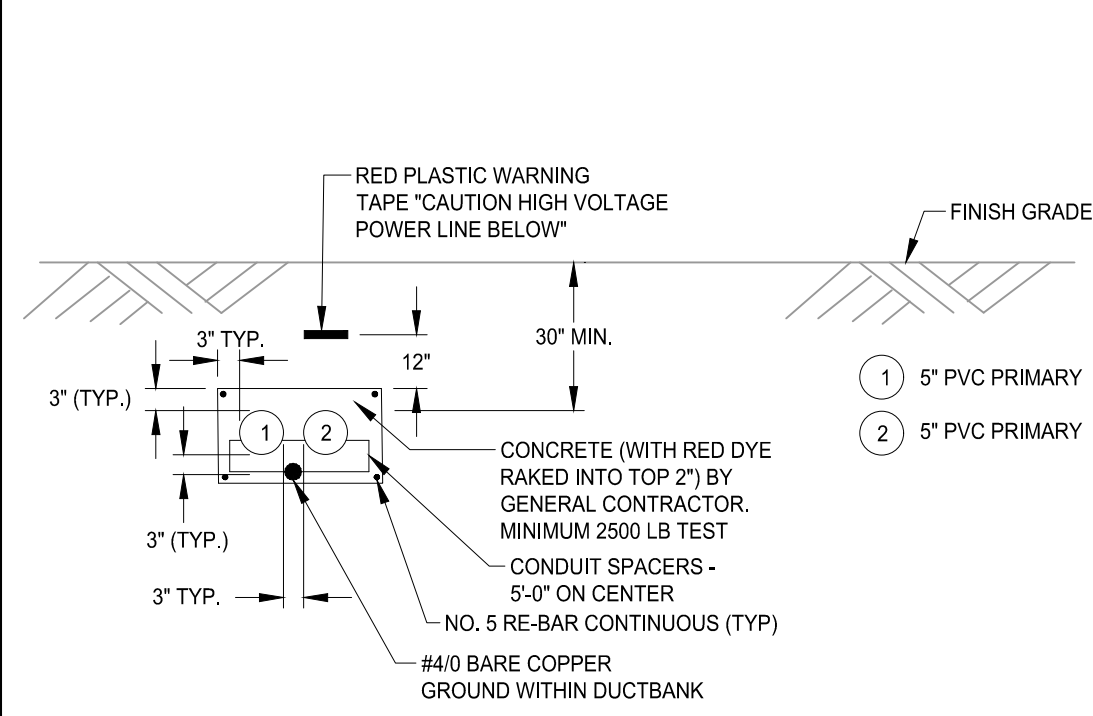
SYMBOLS, ABBREVIATIONS, NOTES AND DETAILS

PROJECT TITLE: NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
SHEET TITLE: SYMBOLS, ABBREVIATIONS, NOTES AND DETAILS
DATE: 2019.03.26
DRAWN BY: PEB
CHECKED BY: PEB
DESIGNED BY: PEB
APPROVED BY: TEN
JOB NUMBER: 10328.016
DRAWING NUMBER: E-001

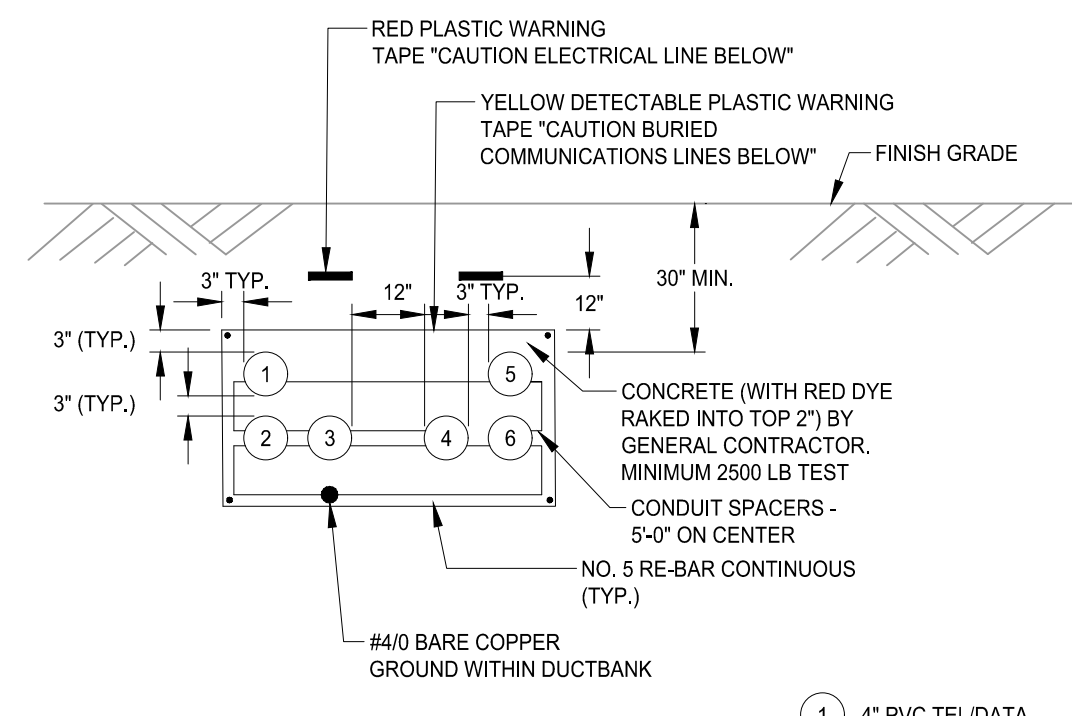
ISSUED FOR CONSTRUCTION

SCALE: AS NOTED
DATE: 2019.03.26
DRAWN BY: PEB
CHECKED BY: PEB
DESIGNED BY: PEB
APPROVED BY: TEN
JOB NUMBER: 10328.016
DRAWING NUMBER: E-001

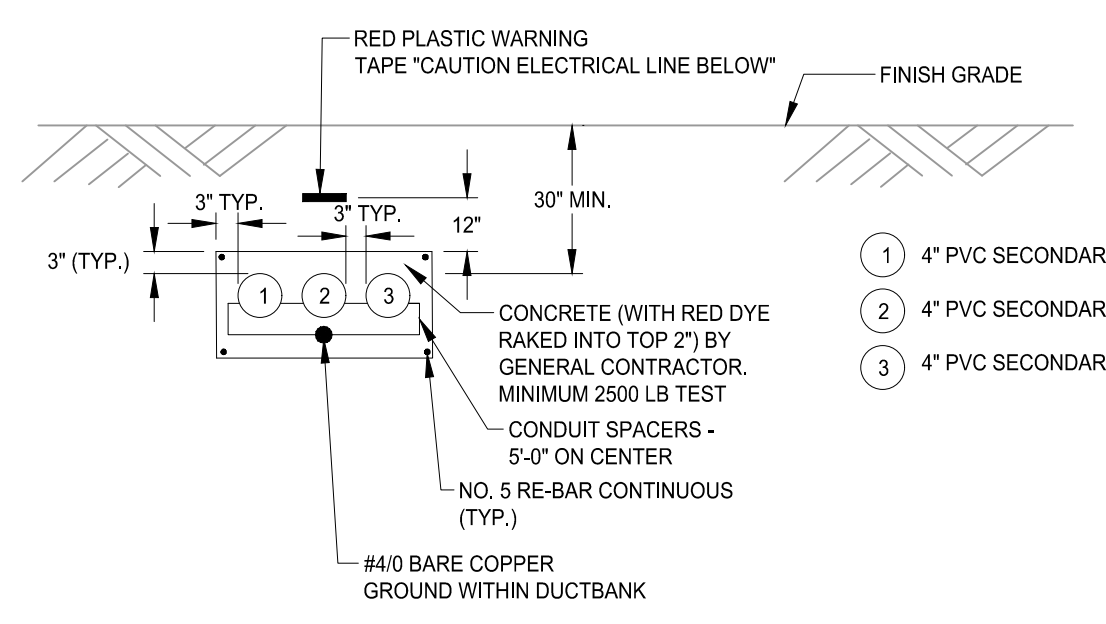
P:\10328\MOUNT DESERT_TOWN_OF_MOUNT_DESERT_VILLAGE_CENTER_IMP\ELECTRICAL\10328_016_001.DWG, 3/20/2019 10:07 AM



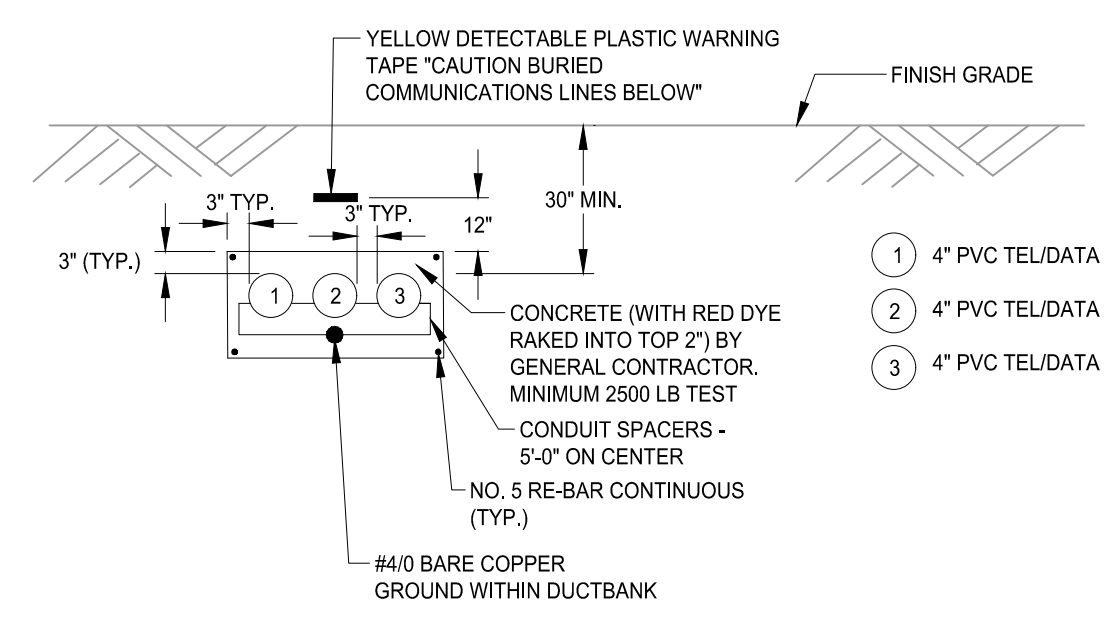
A1 DUCTBANK SECTION
NOT TO SCALE



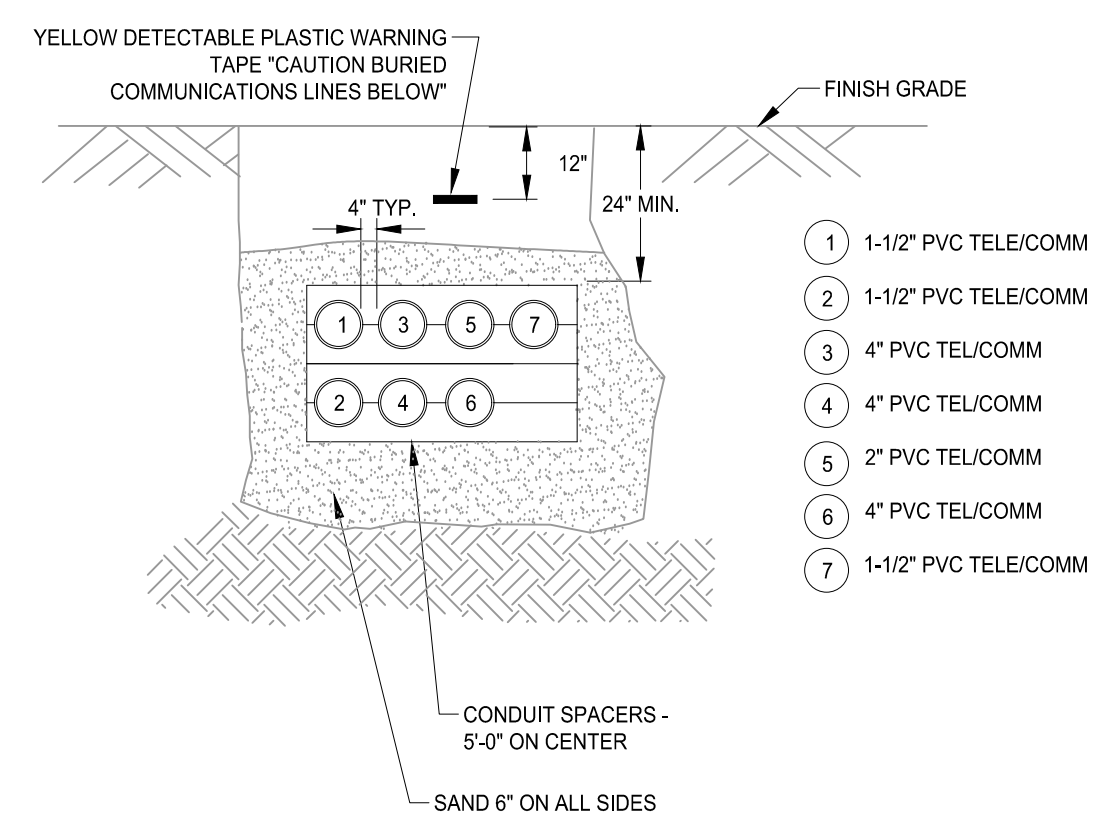
A2 DUCTBANK SECTION
NOT TO SCALE



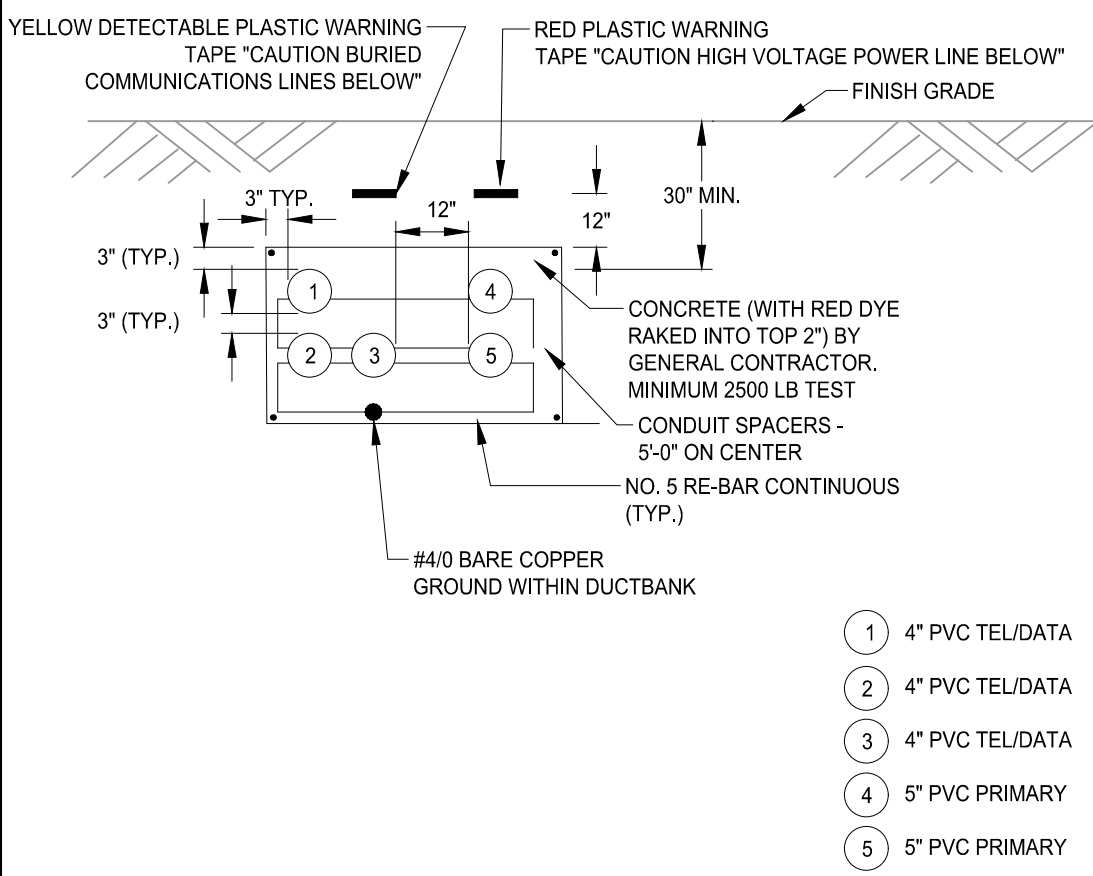
A3 DUCTBANK SECTION
NOT TO SCALE



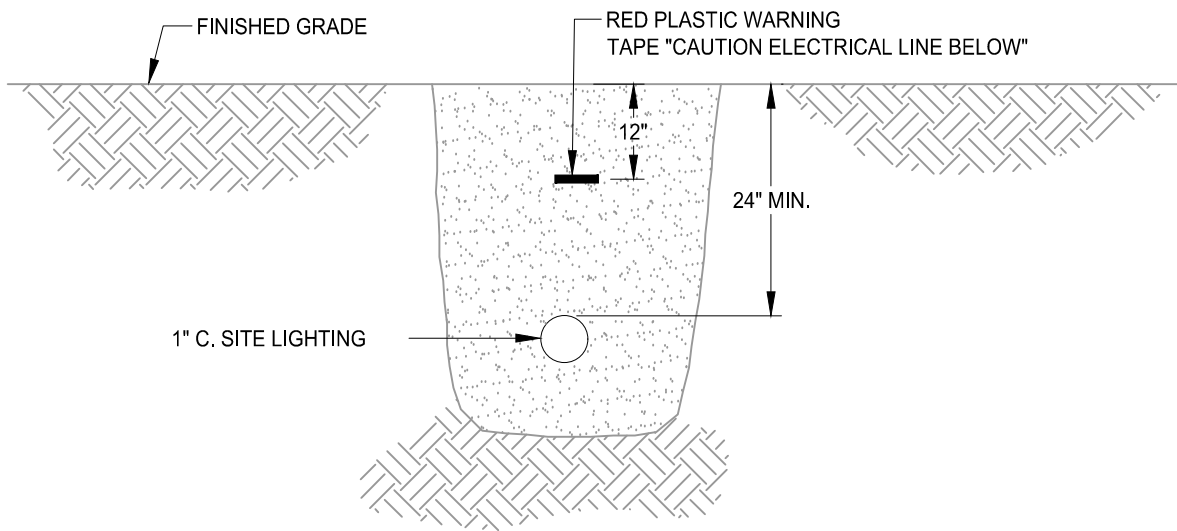
A4 DUCTBANK SECTION
NOT TO SCALE



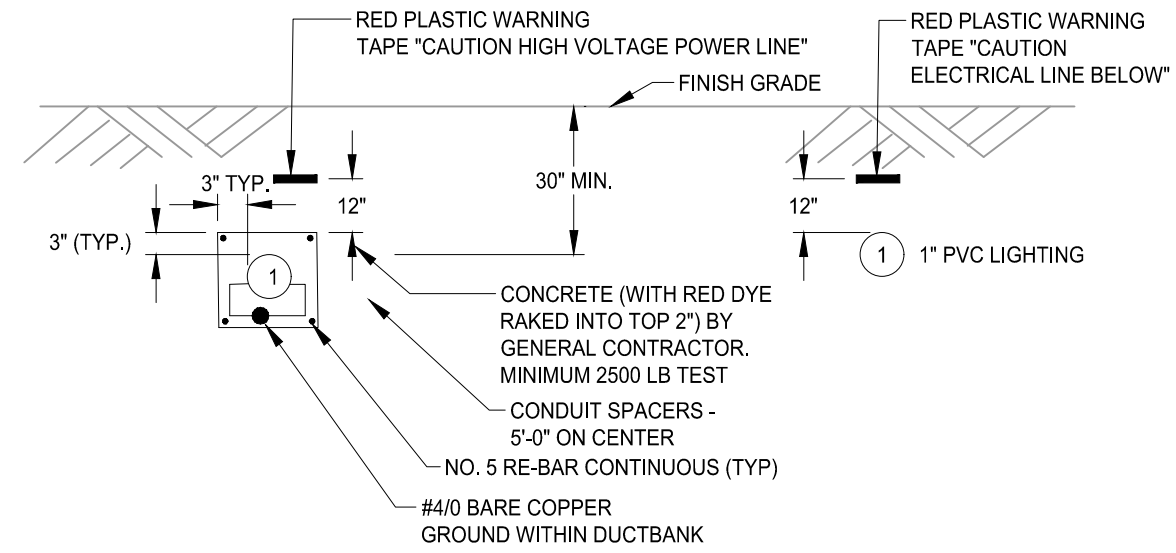
A5 DUCTBANK SECTION
NOT TO SCALE



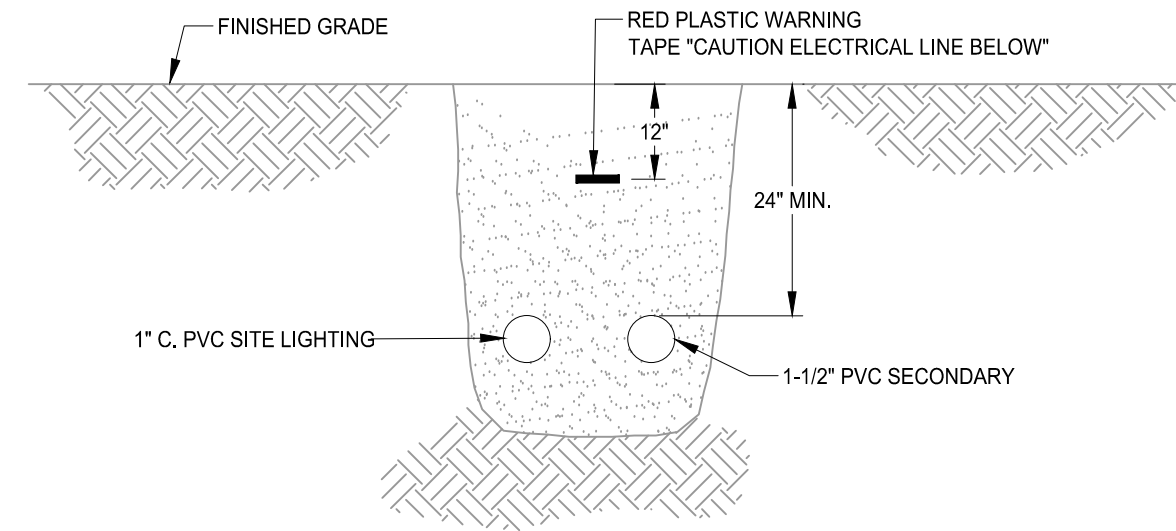
B1 DUCTBANK SECTION
NOT TO SCALE



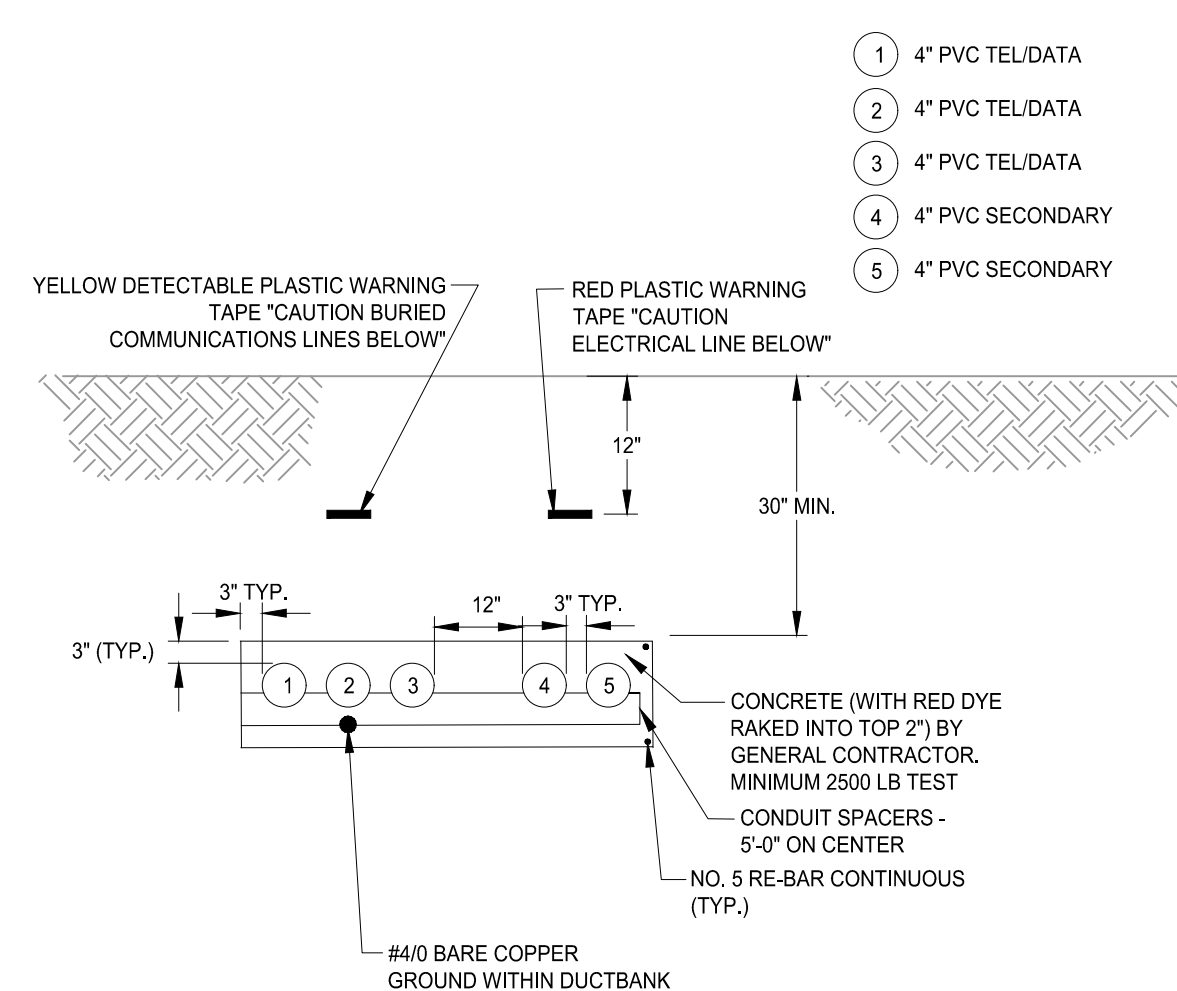
B2 DUCTBANK SECTION
NOT TO SCALE



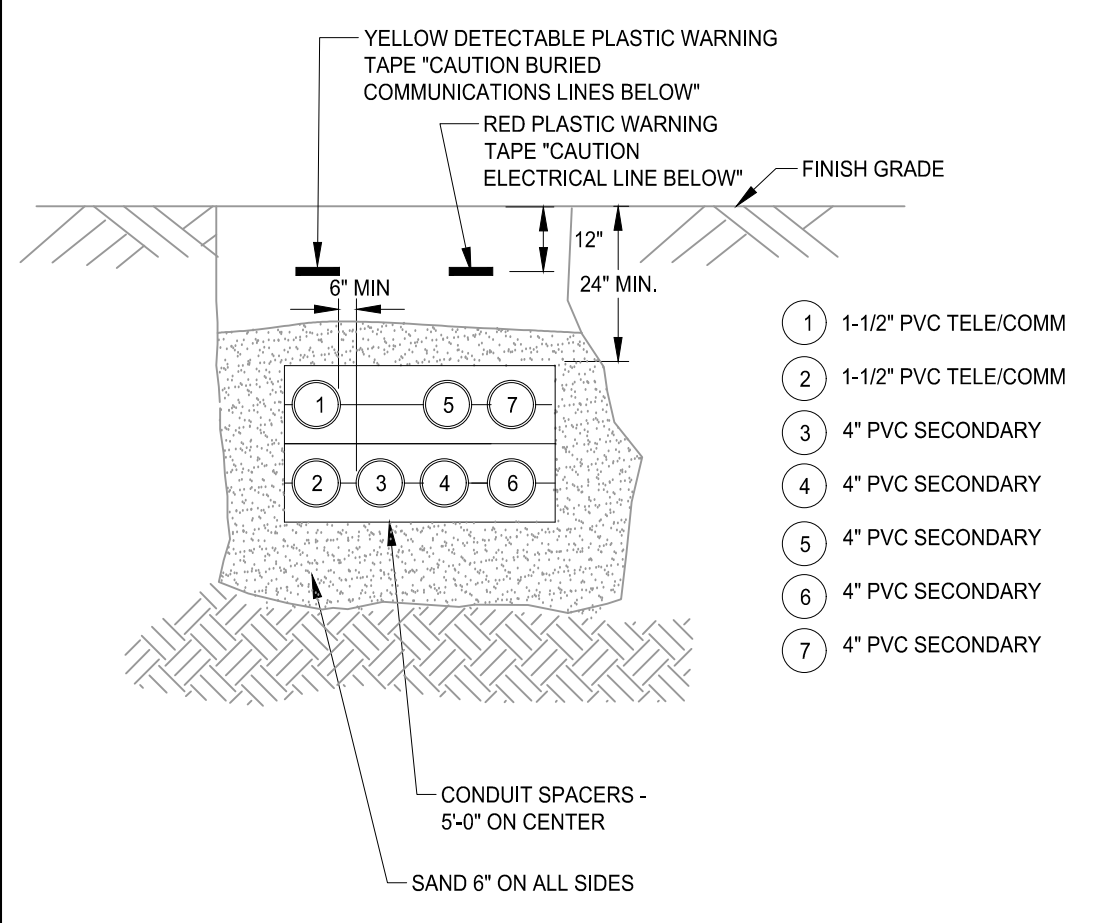
B3 DUCTBANK SECTION
NOT TO SCALE



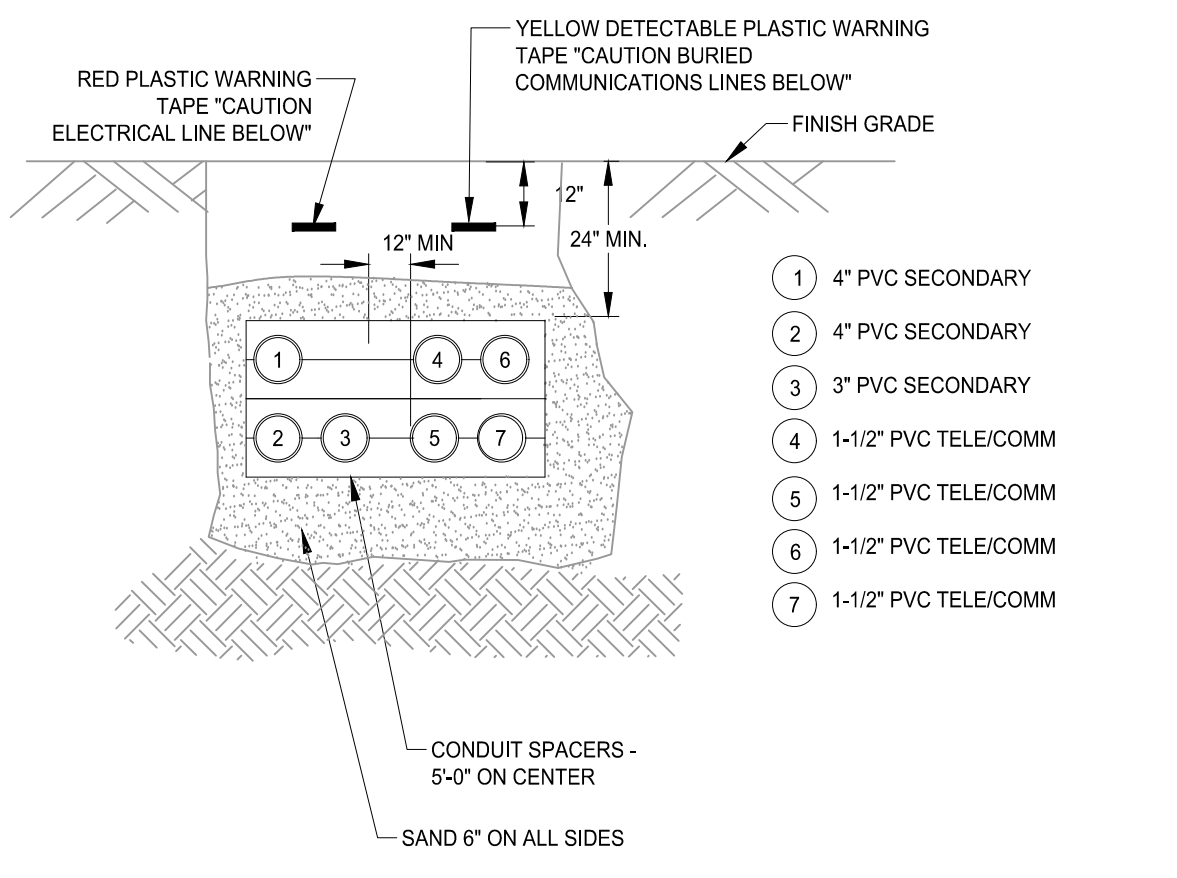
B4 DUCTBANK SECTION
NOT TO SCALE



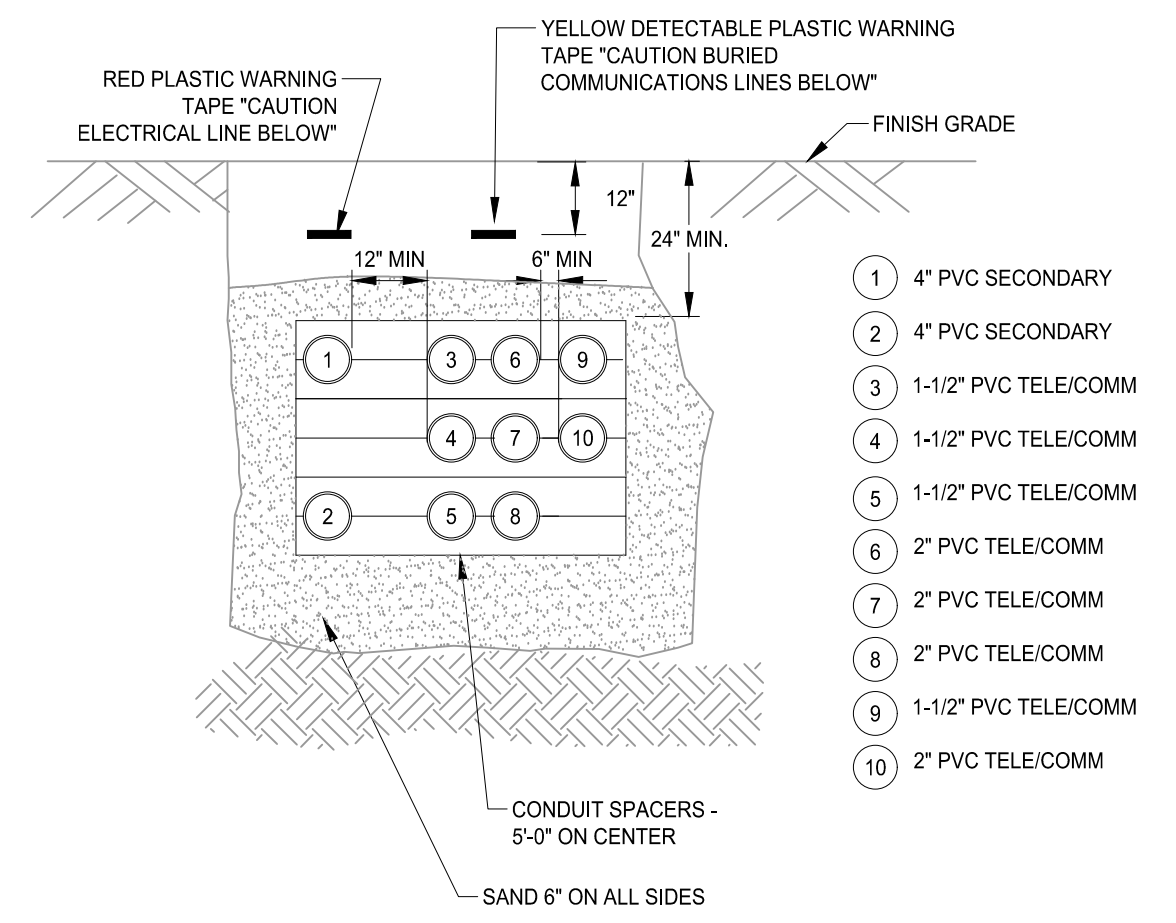
B5 DUCTBANK SECTION
NOT TO SCALE



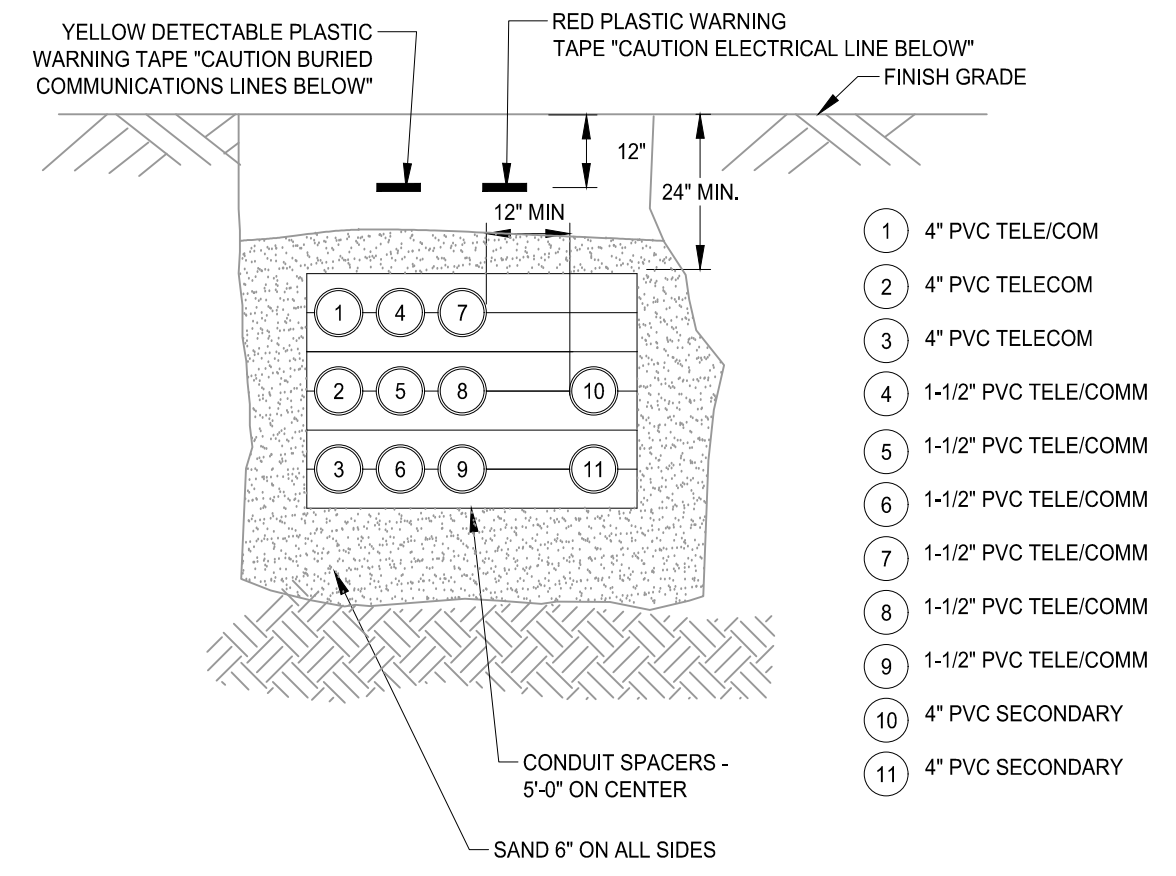
C1 Ductbank Section
NOT TO SCALE



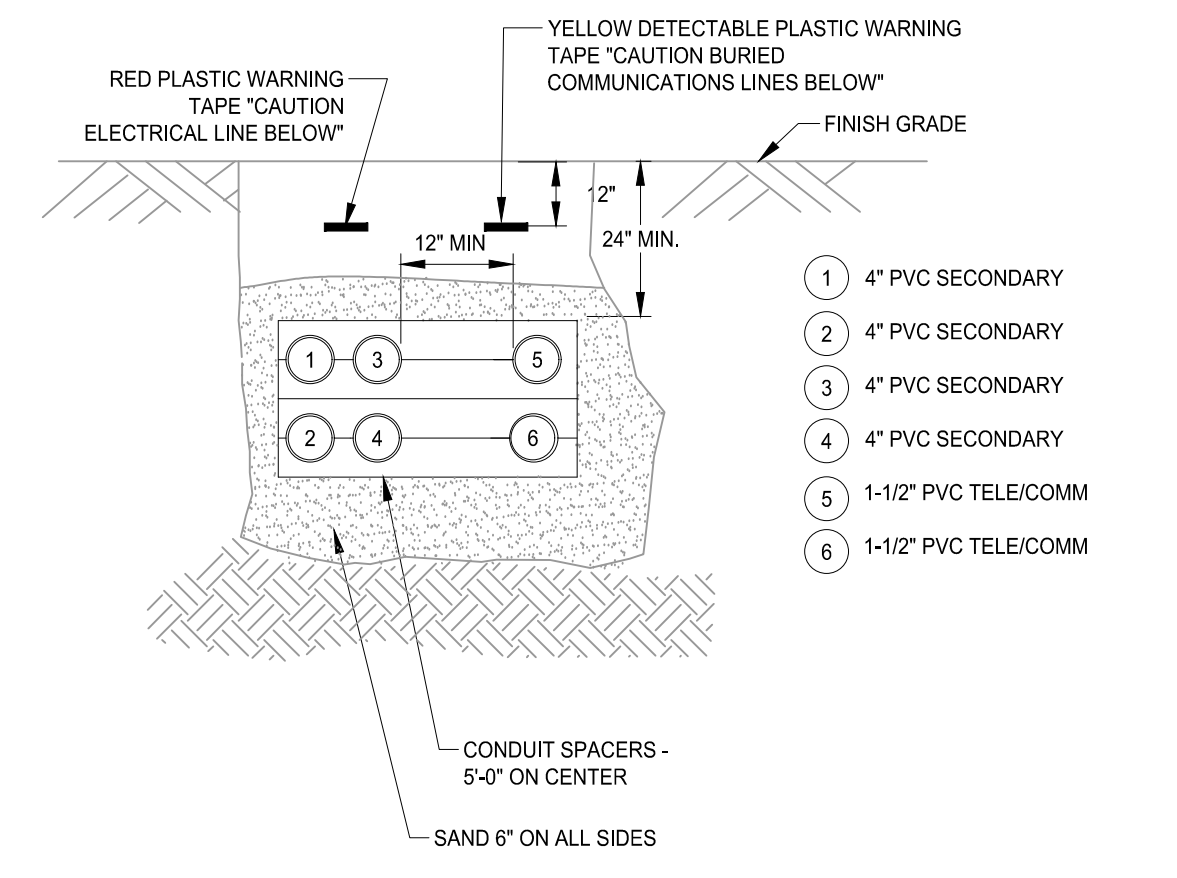
C2 Ductbank Section
NOT TO SCALE



C3 Ductbank Section
NOT TO SCALE



C4 Ductbank Section
NOT TO SCALE



C5 Ductbank Section
NOT TO SCALE

NO.	DATE	BY	CHKD.	DESCRIPTION
1	2019-12-10	PEB	PEB	ISSUED FOR CONSTRUCTION

SCALE:	AS NOTED
DATE:	2019-12-10
DESIGNED BY:	PEB
CHECKED BY:	PEB
APPROVED BY:	TEN
JOB NUMBER:	10328.016
DRAWING NUMBER:	E-002

LEGEND

- ☐ TELEPHONE COMPANY DISTRIBUTION PEDESTAL, FURNISHED AND INSTALLED BY THE TELEPHONE COMPANY.
- ☐ CABLE COMPANY DISTRIBUTION PEDESTAL, FURNISHED AND INSTALLED BY THE CABLE COMPANY.

LINE TYPE LEGEND

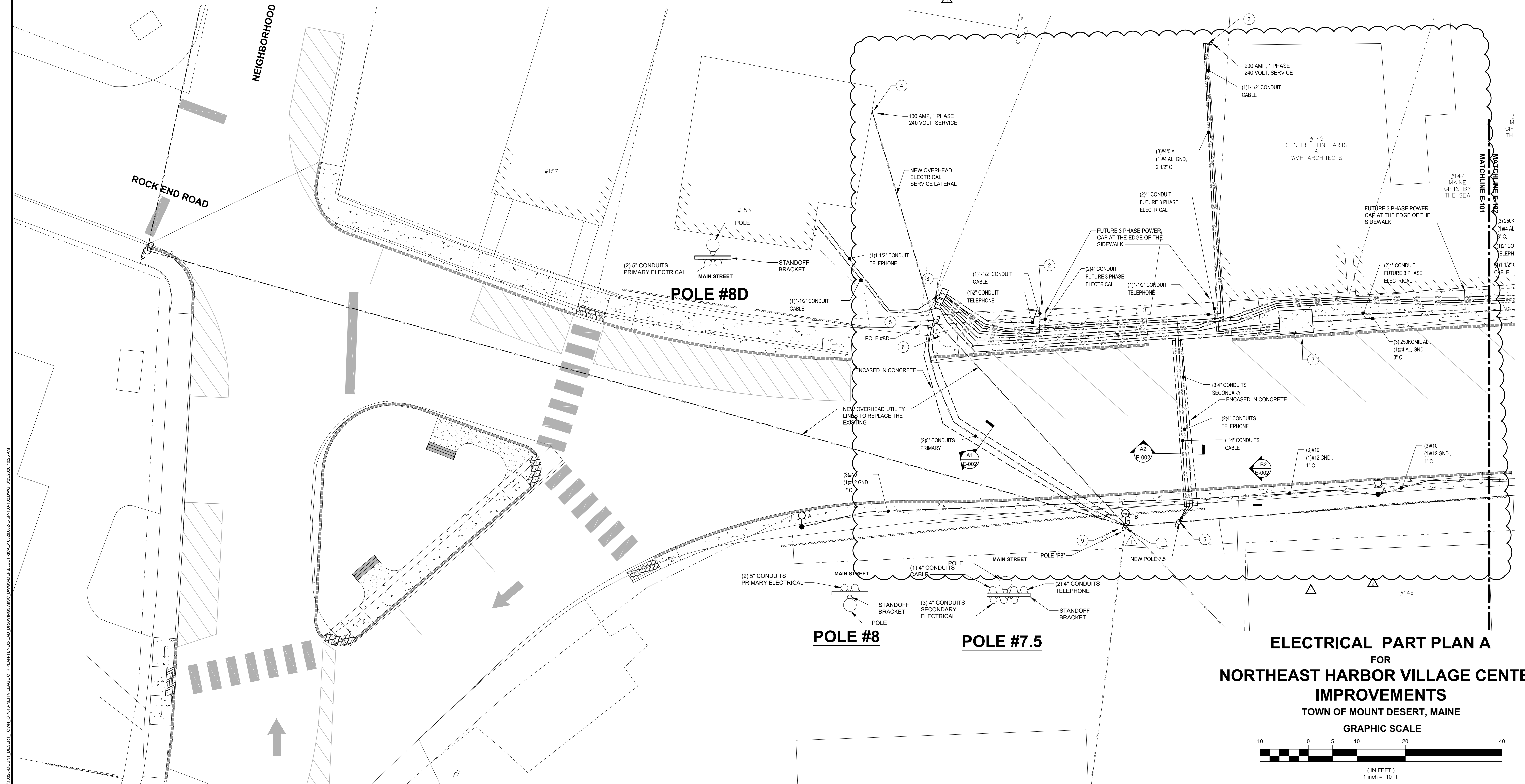
- UNDERGROUND PRIMARY POWER CONDUIT
- UNDERGROUND SECONDARY POWER CONDUIT
- UNDERGROUND CABLE DISTRIBUTION CONDUIT
- UNDERGROUND TELEPHONE DISTRIBUTION CONDUIT
- UNDERGROUND CABLE SERVICE CONDUIT
- UNDERGROUND TELEPHONE SERVICE CONDUIT
- OVERHEAD SECONDARY POWER CABLE
- OVERHEAD CABLE SERVICE CABLE
- OVERHEAD TELEPHONE SERVICE CABLE
- OVERHEAD COMMUNICATIONS (BOTH CABLE AND TELEPHONE) SERVICE CABLES

NUMBERED NOTES

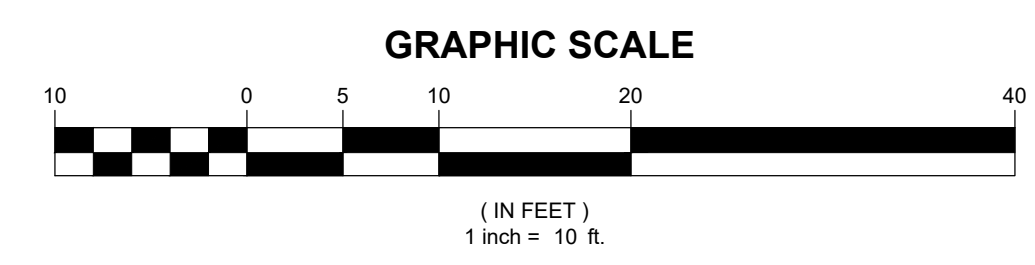
- 1 CONTRACTOR SHALL INSTALL ALL UTILITY CONDUITS TO THE NEW POLE IN THE NEW POLE LOCATION. COORDINATE THE EXACT LOCATION WITH THE POLE INSTALLER. ALL COMMUNICATION CONDUITS SHALL BE IN THE INSIDE OF THE POLE BRACKET AND RISE TO 10' ABOVE FINISH GRADE AND ALL POWER CONDUITS SHALL BE ON THE OUTSIDE OF THE BRACKET AND RISE TO THE REQUIRED HEIGHT, JUST BELOW THE NEUTRAL CABLE IN RIGID CONDUIT. REFER TO DETAIL B1 ON SHEET E-001 FOR ADDITIONAL INFORMATION.
- 2 CONTRACTOR SHALL STUB THE FUTURE CONDUITS WITH CAPS WITHIN 5'-0" OF THE PROPERTY LINE AND PROVIDE DIMENSIONED LOCATIONS FROM PERMANENT POINTS OF REFERENCE. FUTURE POWER SHALL BE BY UNDERGROUND SECONDARY FROM THE UTILITY POLE OR BY A PAD MOUNTED TRANSFORMER THAT WILL NEED TO HAVE ITS LOCATION COORDINATED IN THE FUTURE WITH THE BUILD OUT OF THE VACANT LOT.
- 3 CONTRACTOR SHALL ROUTE THE CONDUIT TO THE EXISTING METER LOCATION ON THIS BACK OF THE BUILDING STAYING ON THE BUILDING OWNER'S PROPERTY. PROVIDE A NEC COMPLIANT GROUNDING SYSTEM WITH A GROUND BLOCK. PROVIDE AN ADDITIONAL 58"x8" GROUND ROD WITH #4 BARE GROUND TO THE GROUND RODS AND THE WATER MAIN.
- 4 CONTRACTOR SHALL REPLACE THE EXISTING 100 AMP 120/240 METER WITH A NEW 100 AMP 120/240 VOLT METER WITH BOTTOM FEED ACCESS AND RECONNECT THE EXISTING LOAD SIDE OF THE METER TO THE NEW METER. PROVIDE NEW #6 BARE GROUND WIRE TO (2)5/8"x8" GROUND RODS WITH CONNECTION TO THE WATER SERVICE TO MEET THE NEC, INCLUDING A NEW GROUND BRIDGE.
- 5 CONTRACTOR SHALL INSTALL NEW PRIMARY CONDUITS AS REQUIRED BY THE LOCAL UTILITY COMPANY AND PROVIDE A 200 LB PULL STRING IN THE CONDUITS FOR THE UTILITY COMPANY. EXTEND THE CONCRETE ENCASUREMENT 24" OUT OF THE GROUND AROUND THE PRIMARY CONDUITS FOR PROTECTION.
- 6 CONTRACTOR SHALL COORDINATE THE CONDUIT ROUTING IN THE FIELD AS REQUIRED TO PROVIDE THE MAXIMUM CLEARANCE ROOM AROUND THE EXISTING FIRE HYDRANT.
- 7 CONTRACTOR SHALL INSTALL A 5'X6'X4' ELECTRICAL SPICE VAULT WITH RATED COVERS AS REQUIRED BY EMERA. CONTRACTOR SHALL INSTALL A 2" DRAIN FROM THE BOTTOM OF THE VAULT TO THE STORM WATER SYSTEM.
- 8 UTILITY PROVIDED COMMUNICATIONS PEDESTALS, 14"x22"x38", CONTRACTOR SHALL COORDINATE ALL CONDUITS INTO THE PEDESTAL WITH THE UTILITY.
- 9 CONTRACTOR SHALL FURNISH THE LIGHT FIXTURE WITH MOUNTING ARM AND THE LOCAL UTILITY COMPANY WILL INSTALL THE LIGHT FIXTURE AND MAKE ALL POWER CONNECTIONS. COORDINATE ALL WORK WITH THE LOCAL UTILITY.

GENERAL NOTES

1. ALL UNDERGROUND PRIMARY POWER CONDUITS SHALL BE 5" PVC WITH ALL ABOVE GROUND PORTIONS RIGID STEEL CONDUIT, CONVERT TO RIGID PRIOR TO THE 90 DEGREE BEND, UP TO 8' ABOVE FINISH GRADE UNLESS OTHERWISE NOTED.
2. ALL UNDERGROUND SECONDARY POWER CONDUITS SHALL BE 2" PVC UNLESS OTHERWISE NOTED.
3. ALL UNDERGROUND TELEPHONE AND CABLE (COMMUNICATIONS) DISTRIBUTION CONDUITS SHALL BE 4" PVC UNLESS OTHERWISE NOTED.
4. ALL UNDERGROUND TELEPHONE AND CABLE SERVICE CONDUITS SHALL BE 1-1/4" PVC UNLESS OTHERWISE NOTED.
5. EXCLUSION ZONES FOR ALL UNDERGROUND CONDUITS ARE 5' FROM A BUILDING FOUNDATION AND 10' ALONG THE CENTERLINE OF THE WATER SERVICE LINE OR SERVICE LINE CLUSTERS. COORDINATE LOCATIONS WITH THE WATER PIPE INSTALLER.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SERVICE CONNECTION POINTS AND ROUTE ALL UNDERGROUND CONDUITS ON PUBLIC PROPERTY OR ON THE BUILDING OWNERS THAT THE SERVICE IS FOR, UNDER NO CIRCUMSTANCE SHALL SERVICE CONDUITS CROSS OWNERS PROPERTY LINES.
7. AFTER NEW ELECTRICAL SERVICES ARE INSTALLED TO A BUILDING, CONTRACTOR SHALL REMOVE THE EXISTING SERVICES AS REQUIRED.
8. CONCRETE COVER FOR THE ELECTRICAL VAULTS IN THE SIDEWALK SHALL MATCH THE CONCRETE SIDE WALK.



ELECTRICAL PART PLAN A
FOR
NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE



Waterbury
44 Main Street
Princeton, ME
F. 207-766-2202
F. 207-769-8412
F. 207-769-8414
F. 207-769-8414

Brewer
405 Soan Main Street
Princeton, ME
F. 207-586-4824
F. 207-586-4824
F. 207-586-4824

Waterville
136 1/2 Main Street
PO Box 897
Barr Harbor, ME
T. 207-256-3270
F. 207-256-3270
F. 207-256-8387



NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE

ELECTRICAL PART PLAN A

NO.	DATE	BY	CHKD.	APP'D.	DESCRIPTION
1	2019.03.14	PEB	BLO	PEB	UTILITY COMPANY CHANGES
2		PEB		PEB	GENERAL REVISIONS & UTP LOCATIONS

ISSUED FOR CONSTRUCTION



SCALE	1"=10'
DATE	2019.03.14
DRAWN BY	PEB
CHECKED BY	PEB
DESIGNED BY	PEB
APPROVED BY	TEN
XREF NUMBER	10328.016
DRAWING NUMBER	E-101

P:\10328.MOUNT DESERT - TOWN OF MOUNT DESERT VILLAGE CENTER IMPROVEMENTS CAD DRAWINGS\MISC. DRAWINGS\ELECTRICAL\0328.E-101.DWG, 3/20/2019, 10:25 AM

LEGEND

- T TELEPHONE COMPANY DISTRIBUTION PEDESTAL, FURNISHED AND INSTALLED BY THE TELEPHONE COMPANY.
- C CABLE COMPANY DISTRIBUTION PEDESTAL, FURNISHED AND INSTALLED BY THE CABLE COMPANY.

LINE TYPE LEGEND

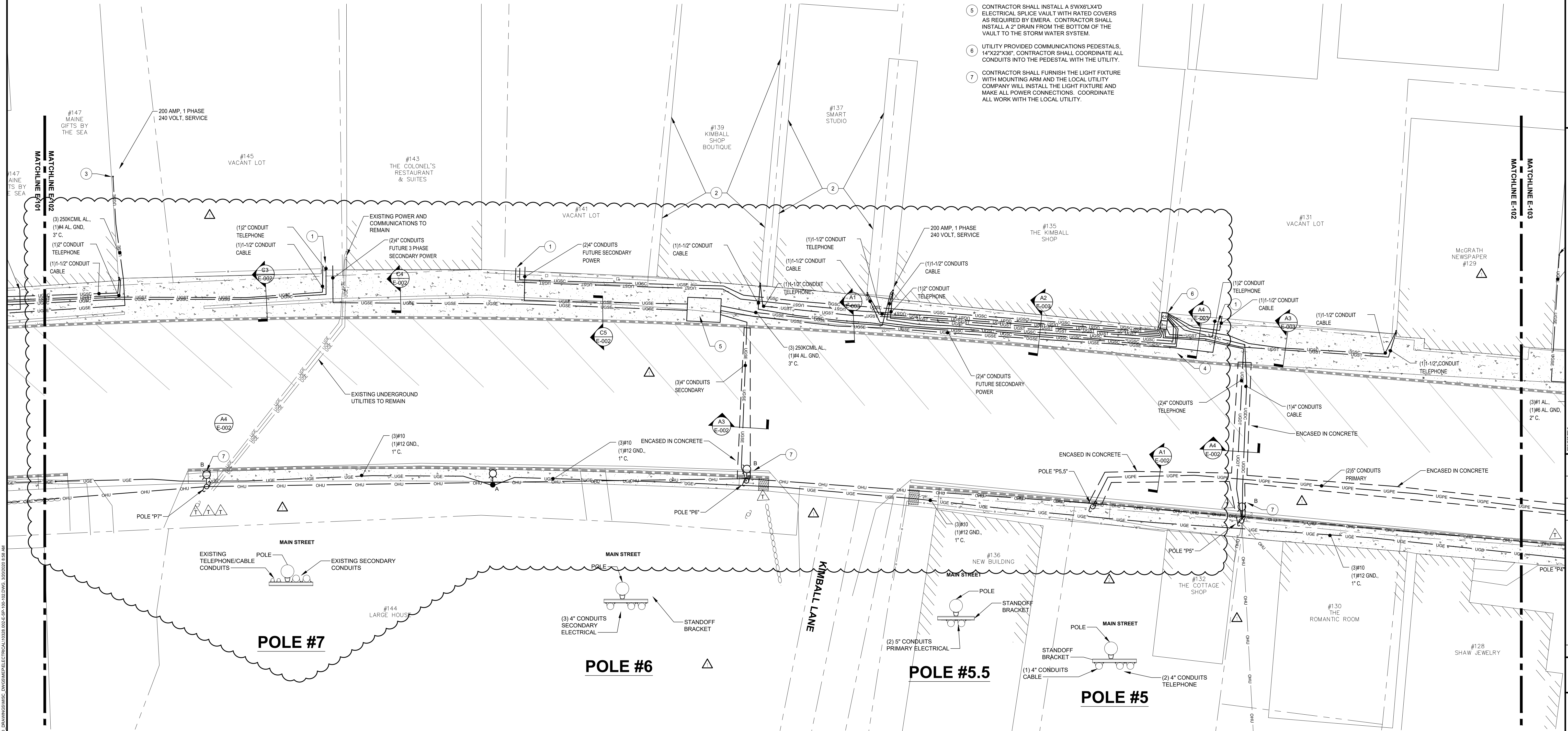
- UGPE UNDERGROUND PRIMARY POWER CONDUIT
- UGSE UNDERGROUND SECONDARY POWER CONDUIT
- UGDC UNDERGROUND CABLE DISTRIBUTION CONDUIT
- UGDT UNDERGROUND TELEPHONE DISTRIBUTION CONDUIT
- UGSC UNDERGROUND CABLE SERVICE CONDUIT
- UGST UNDERGROUND TELEPHONE SERVICE CONDUIT
- OHSE OVERHEAD SECONDARY POWER CABLE
- OHSC OVERHEAD CABLE SERVICE CABLE
- OHTS OVERHEAD TELEPHONE SERVICE CABLE
- OHCC OVERHEAD COMMUNICATIONS (BOTH CABLE AND TELEPHONE) SERVICE CABLES

NUMBERED NOTES

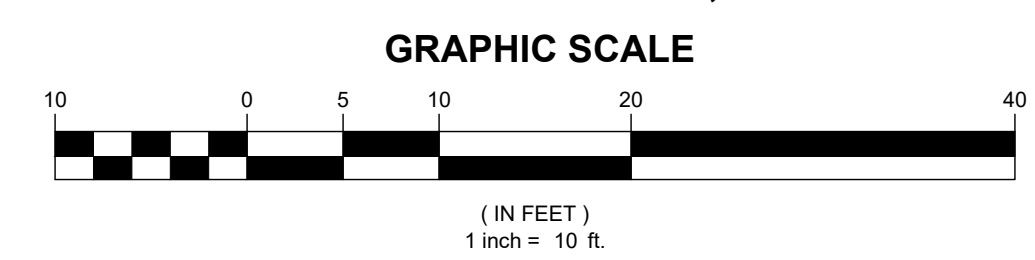
- 1 CONTRACTOR SHALL STUB AND CAP THE POWER, TELEPHONE AND CABLE CONDUITS FOR THE FUTURE USE AT THE VACANT LOT. COORDINATE THE LOCATION OF THE STUB END OF THE CONDUIT AND PROVIDE DIMENSIONED LOCATIONS FROM PERMANENT LANDMARKS TO ALLOW THEM TO BE LOCATED IN THE FUTURE.
- 2 ELECTRICAL SERVICES FOR THIS BUILD ARE PROVIDED FROM THE TRACY STREET OVERHEAD SYSTEM.
- 3 CONTRACTOR SHALL REPLACE THE EXISTING TOP FEED METER TRIM WITH A NEW BOTTOM FEED METER TRIM AND PROVIDE NEW NEC COMPLIANT GROUNDINGS WITH A #4 BARE COPPER TO (2)5/8"X8" GROUND RODS, WATER MAIN CONNECTION AND GROUND BRIDGE.
- 4 CONTRACTOR SHALL STACK THE CONDUITS TO PROVIDE THE MAXIMUM CLEARANCE ROOM AROUND THE EXISTING FIRE HYDRANT. CONTRACTOR SHALL COORDINATE THE CONDUIT ROUTING IN THE FIELD AS REQUIRED.
- 5 CONTRACTOR SHALL INSTALL A 5'Wx6'Lx4'D ELECTRICAL SPURGE VAULT WITH RATED COVERS AS REQUIRED BY EMER. CONTRACTOR SHALL INSTALL A 2" DRAIN FROM THE BOTTOM OF THE VAULT TO THE STORM WATER SYSTEM.
- 6 UTILITY PROVIDED COMMUNICATIONS PEDESTALS, 14"X22"X36", CONTRACTOR SHALL COORDINATE ALL CONDUITS INTO THE PEDESTAL WITH THE UTILITY.
- 7 CONTRACTOR SHALL FURNISH THE LIGHT FIXTURE WITH MOUNTING ARM AND THE LOCAL UTILITY COMPANY WILL INSTALL THE LIGHT FIXTURE AND MAKE ALL POWER CONNECTIONS. COORDINATE ALL WORK WITH THE LOCAL UTILITY.

GENERAL NOTES

1. ALL UNDERGROUND PRIMARY POWER CONDUITS SHALL BE 5" PVC WITH ALL ABOVE GROUND PORTIONS RIGID STEEL CONDUIT. CONVERT TO RIGID PRIOR TO THE 90 DEGREE BEND, UP TO 8' ABOVE FINISH GRADE UNLESS OTHERWISE NOTED.
2. ALL UNDERGROUND SECONDARY POWER CONDUITS SHALL BE 2" PVC UNLESS OTHERWISE NOTED.
3. ALL UNDERGROUND TELEPHONE AND CABLE (COMMUNICATIONS) DISTRIBUTION CONDUITS SHALL BE 4" PVC UNLESS OTHERWISE NOTED.
4. ALL UNDERGROUND TELEPHONE AND CABLE SERVICE CONDUITS SHALL BE 1-1/4" PVC UNLESS OTHERWISE NOTED.
5. EXCLUSION ZONES FOR ALL UNDERGROUND CONDUITS ARE 5' FROM A BUILDING FOUNDATION AND 10' ALONG THE CENTERLINE OF THE WATER SERVICE LINE OR SERVICE LINE CLUSTERS. COORDINATE LOCATIONS WITH THE WATER PIPE INSTALLER.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SERVICE CONNECTION POINTS AND ROUTE ALL UNDERGROUND CONDUITS ON PUBLIC PROPERTY OR ON THE BUILDING OWNERS THAT THE SERVICE IS FOR. UNDER NO CIRCUMSTANCE SHALL SERVICE CONDUITS CROSS OWNERS PROPERTY LINES.
7. AFTER NEW ELECTRICAL SERVICES ARE INSTALLED TO A BUILDING, CONTRACTOR SHALL REMOVE THE EXISTING SERVICES AS REQUIRED.
8. CONCRETE COVER FOR THE ELECTRICAL VAULTS IN THE SIDEWALK SHALL MATCH THE CONCRETE SIDE WALK.



**ELECTRICAL PART PLAN B
FOR
NORTHEAST HARBOR VILLAGE CENTER
IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE**



NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE

ELECTRICAL PART PLAN B

NO.	DATE	DESCRIPTION
1	2019.03.26	ISSUED FOR CONSTRUCTION

**ISSUED FOR
CONSTRUCTION**

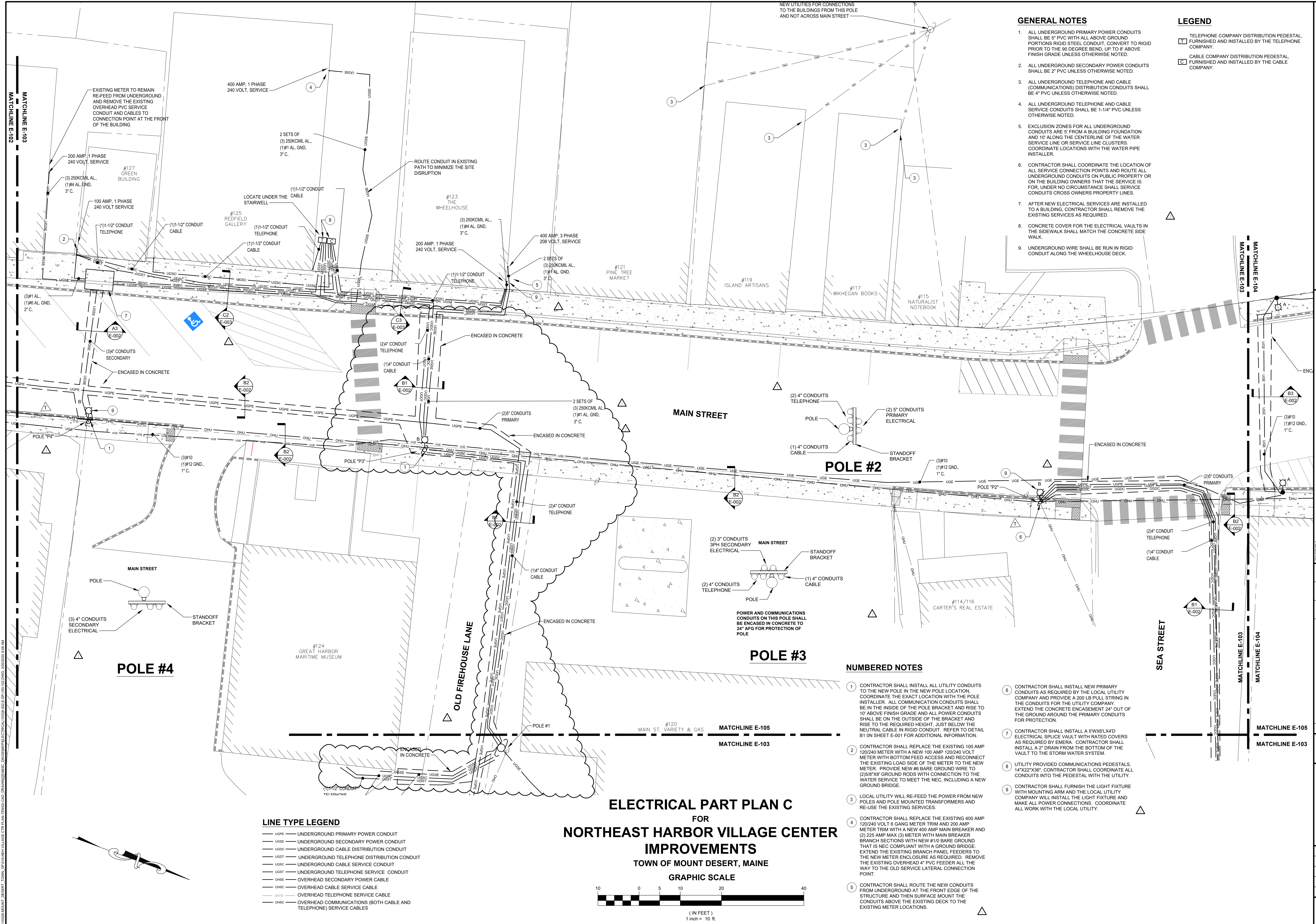


SCALE	1"=10'
DATE	2019.03.26
DRAWN BY	PEB
CHECKED BY	PEB
DESIGNED BY	PEB
APPROVED BY	TEN
XREF NUMBER	10328.016
DRAWING NUMBER	

E-102

CES INC
Engineers • Environmental Scientists • Surveyors

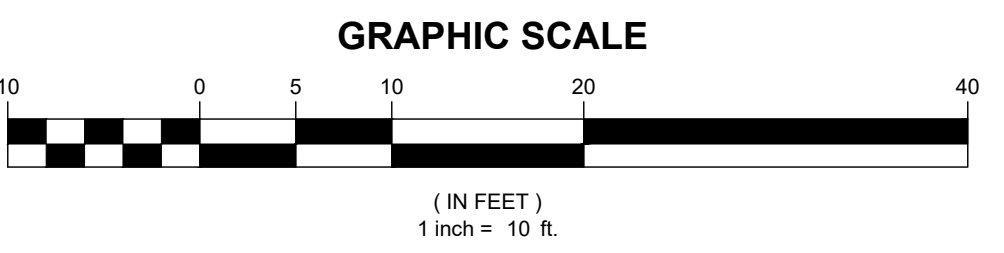
Waterville: 44 Main Street, Waterville, ME 05697
 Presque Isle: 560 Main Street, Presque Isle, ME 04769
 Brewer: 405 Soan Main Street, Brewer, ME 04412
 Bangor: 1000 Main Street, Bangor, ME 04401
 Lewiston: 1000 Main Street, Lewiston, ME 04240
 Bar Harbor: 1000 Main Street, Bar Harbor, ME 04769



- GENERAL NOTES**
- ALL UNDERGROUND PRIMARY POWER CONDUITS SHALL BE 5" PVC WITH ALL ABOVE GROUND PORTIONS RIGID STEEL CONDUIT. CONVERT TO RIGID PRIOR TO THE 90 DEGREE BEND, UP TO 8' ABOVE FINISH GRADE UNLESS OTHERWISE NOTED.
 - ALL UNDERGROUND SECONDARY POWER CONDUITS SHALL BE 2" PVC UNLESS OTHERWISE NOTED.
 - ALL UNDERGROUND TELEPHONE AND CABLE (COMMUNICATIONS) DISTRIBUTION CONDUITS SHALL BE 4" PVC UNLESS OTHERWISE NOTED.
 - ALL UNDERGROUND TELEPHONE AND CABLE SERVICE CONDUITS SHALL BE 1-1/4" PVC UNLESS OTHERWISE NOTED.
 - EXCLUSION ZONES FOR ALL UNDERGROUND CONDUITS ARE 5' FROM A BUILDING FOUNDATION AND 10' ALONG THE CENTERLINE OF THE WATER SERVICE LINE OR SERVICE LINE CLUSTERS. COORDINATE LOCATIONS WITH THE WATER PIPE INSTALLER.
 - CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SERVICE CONNECTION POINTS AND ROUTE ALL UNDERGROUND CONDUITS ON PUBLIC PROPERTY OR ON THE BUILDING OWNERS THAT THE SERVICE IS FOR. UNDER NO CIRCUMSTANCES SHALL SERVICE CONDUITS CROSS OWNERS PROPERTY LINES.
 - AFTER NEW ELECTRICAL SERVICES ARE INSTALLED TO A BUILDING, CONTRACTOR SHALL REMOVE THE EXISTING SERVICES AS REQUIRED.
 - CONCRETE COVER FOR THE ELECTRICAL VAULTS IN THE SIDEWALK SHALL MATCH THE CONCRETE SIDE WALK.
 - UNDERGROUND WIRE SHALL BE RUN IN RIGID CONDUIT ALONG THE WHEELHOUSE DECK.

- LEGEND**
- TELEPHONE COMPANY DISTRIBUTION PEDESTAL, FURNISHED AND INSTALLED BY THE TELEPHONE COMPANY.
 - CABLE COMPANY DISTRIBUTION PEDESTAL, FURNISHED AND INSTALLED BY THE CABLE COMPANY.

- LINE TYPE LEGEND**
- UGPE — UNDERGROUND PRIMARY POWER CONDUIT
 - UGSE — UNDERGROUND SECONDARY POWER CONDUIT
 - UGDC — UNDERGROUND CABLE DISTRIBUTION CONDUIT
 - UGDT — UNDERGROUND TELEPHONE DISTRIBUTION CONDUIT
 - UGSC — UNDERGROUND CABLE SERVICE CONDUIT
 - UGST — UNDERGROUND TELEPHONE SERVICE CONDUIT
 - OHSE — OVERHEAD SECONDARY POWER CABLE
 - OHSC — OVERHEAD CABLE SERVICE CABLE
 - OHTS — OVERHEAD TELEPHONE SERVICE CABLE
 - OHSC — OVERHEAD COMMUNICATIONS (BOTH CABLE AND TELEPHONE) SERVICE CABLES



- NUMBERED NOTES**
- CONTRACTOR SHALL INSTALL ALL UTILITY CONDUITS TO THE NEW POLE IN THE NEW POLE LOCATION. COORDINATE THE EXACT LOCATION WITH THE POLE INSTALLER. ALL COMMUNICATION CONDUITS SHALL BE IN THE INSIDE OF THE POLE BRACKET AND RISE TO 10' ABOVE FINISH GRADE AND ALL POWER CONDUITS SHALL BE ON THE OUTSIDE OF THE BRACKET AND RISE TO THE REQUIRED HEIGHT. JUST BELOW THE NEUTRAL CABLE IN RIGID CONDUIT. REFER TO DETAIL B1 ON SHEET E-001 FOR ADDITIONAL INFORMATION.
 - CONTRACTOR SHALL REPLACE THE EXISTING 100 AMP 120/240 VOLT METER WITH A NEW 100 AMP 120/240 VOLT METER WITH BOTTOM FEED ACCESS AND RECONNECT THE EXISTING LOAD SIDE OF THE METER TO THE NEW METER. PROVIDE NEW #6 BARE GROUND WIRE TO (2) 5/8" GROUND RODS WITH CONNECTION TO THE WATER SERVICE TO MEET THE NEC, INCLUDING A NEW GROUND BRIDGE.
 - LOCAL UTILITY WILL RE-FEED THE POWER FROM NEW POLES AND POLE MOUNTED TRANSFORMERS AND RE-USE THE EXISTING SERVICES.
 - CONTRACTOR SHALL REPLACE THE EXISTING 400 AMP 120/240 VOLT 6 GANG METER TRIM AND 200 AMP METER TRIM WITH A NEW 400 AMP MAIN BREAKER AND (2) 225 AMP MAX (3) METER WITH MAIN BREAKER BRANCH SECTIONS WITH NEW #10 BARE GROUND THAT IS NEC COMPLIANT WITH A GROUND BRIDGE. EXTEND THE EXISTING BRANCH PANEL FEEDERS TO THE NEW METER ENCLOSURE AS REQUIRED. REMOVE THE EXISTING OVERHEAD 4" PVC FEEDER ALL THE WAY TO THE OLD SERVICE LATERAL CONNECTION POINT.
 - CONTRACTOR SHALL ROUTE THE NEW CONDUITS FROM UNDERGROUND AT THE FRONT EDGE OF THE STRUCTURE AND THEN SURFACE MOUNT THE CONDUITS ABOVE THE EXISTING DECK TO THE EXISTING METER LOCATIONS.
 - CONTRACTOR SHALL INSTALL NEW PRIMARY CONDUITS AS REQUIRED BY THE LOCAL UTILITY COMPANY AND PROVIDE A 200 LB PULL STRING IN THE CONDUITS FOR THE UTILITY COMPANY. EXTEND THE CONCRETE ENCASEMENT 24" OUT OF THE GROUND AROUND THE PRIMARY CONDUITS FOR PROTECTION.
 - CONTRACTOR SHALL INSTALL A 5WX6LX4D ELECTRICAL SPICE VAULT WITH RATED COVERS AS REQUIRED BY EMERA. CONTRACTOR SHALL INSTALL A 2" DRAIN FROM THE BOTTOM OF THE VAULT TO THE STORM WATER SYSTEM.
 - UTILITY PROVIDED COMMUNICATIONS PEDESTALS, 14"X22"X36", CONTRACTOR SHALL COORDINATE ALL CONDUITS INTO THE PEDESTAL WITH THE UTILITY.
 - CONTRACTOR SHALL FURNISH THE LIGHT FIXTURE WITH MOUNTING ARM AND THE LOCAL UTILITY COMPANY WILL INSTALL THE LIGHT FIXTURE AND MAKE ALL POWER CONNECTIONS. COORDINATE ALL WORK WITH THE LOCAL UTILITY.

CES INC
 Engineers • Environmental Scientists • Surveyors

Warrenton, OR
 44 Main Street
 503-865-1111
 F. 503-865-1122

Brewer, ME
 405 South Main Street
 207-756-8412
 F. 207-756-8424

Portland, ME
 81 Dabbs Street
 207-756-8414
 F. 207-756-8424

Lebanon, ME
 102 Main Street
 207-756-8412
 F. 207-756-8424

ELECTRICAL PART PLAN C

NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
 TOWN OF MOUNT DESERT, MAINE

PROJECT TITLE: _____
 SHEET TITLE: _____

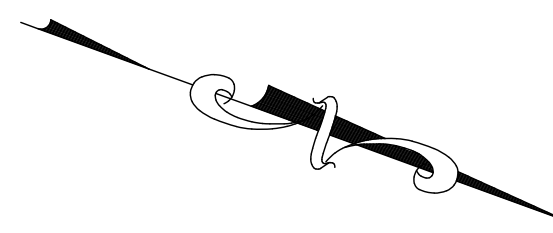
DATE	SCALE	BY	CHKD
2019.03.26	1" = 10'	PEB	PEB

ISSUED FOR CONSTRUCTION

PHILIP HADGER III
 No. 12460
 LICENSED PROFESSIONAL ENGINEER

SCALE: 1" = 10'
 DATE: 2019.03.26
 DRAWN BY: PEB
 CHECKED BY: PEB
 DESIGNED BY: PEB
 APPROVED BY: TEN
 JOB NUMBER: 10328.016
 DRAWING NUMBER: _____

P:\10328\MOUNT DESERT - TOWN OF MOUNT DESERT VILLAGE CENTER IMPROVEMENTS\DRAWINGS\ELECTRICAL\0328-016-000-010.DWG, 3/20/2019, 8:58 AM



LEGEND

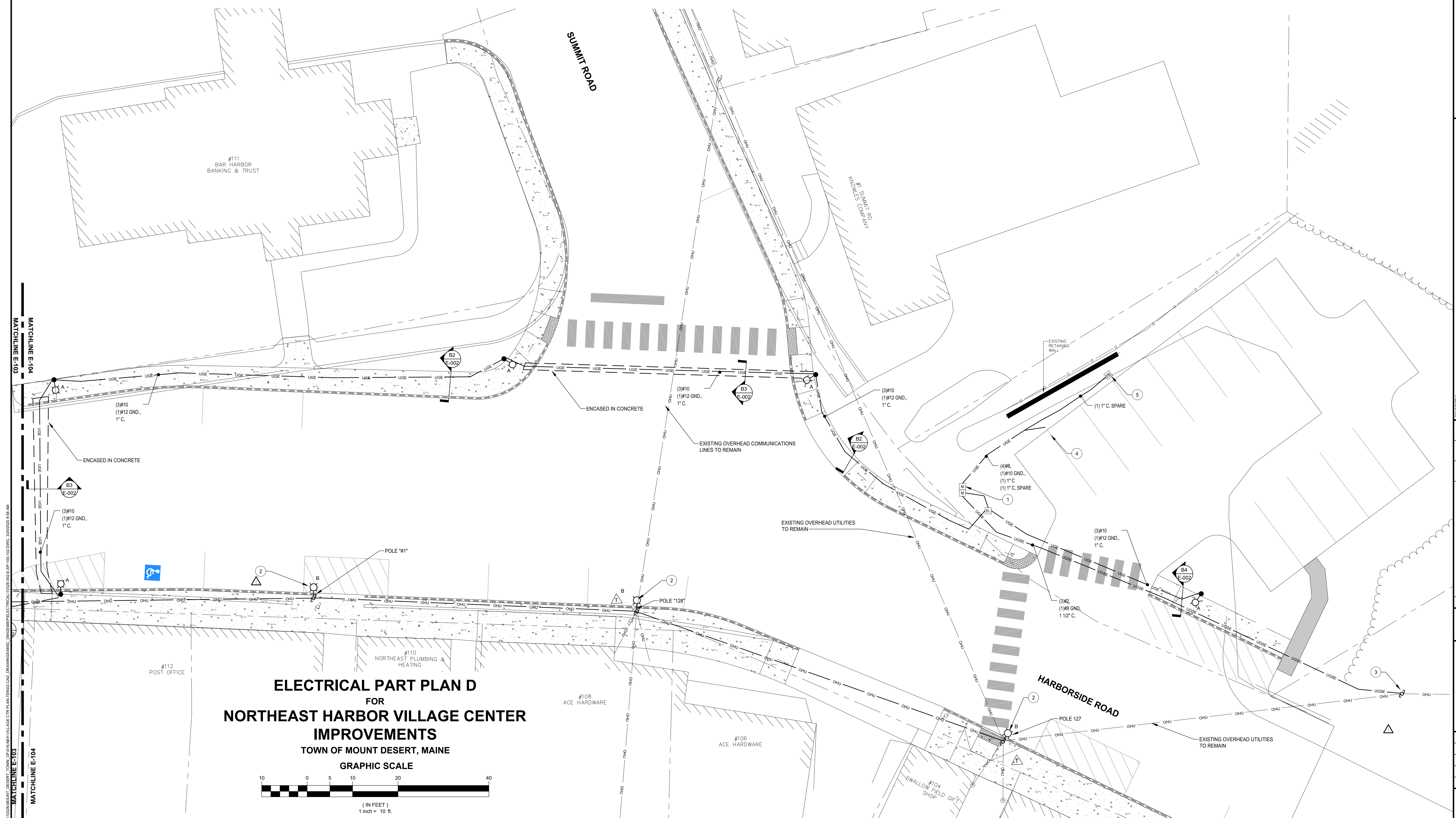
- UGPE — UNDERGROUND PRIMARY POWER CONDUIT
- UGSE — UNDERGROUND SECONDARY POWER CONDUIT
- UGDC — UNDERGROUND CABLE DISTRIBUTION CONDUIT
- UGDT — UNDERGROUND TELEPHONE DISTRIBUTION CONDUIT
- UGSC — UNDERGROUND CABLE SERVICE CONDUIT
- UGST — UNDERGROUND TELEPHONE SERVICE CONDUIT
- OHSE — OVERHEAD SECONDARY POWER CABLE
- OHSC — OVERHEAD CABLE SERVICE CABLE
- OHTS — OVERHEAD TELEPHONE SERVICE CABLE
- OHCC — OVERHEAD COMMUNICATIONS (BOTH CABLE AND TELEPHONE) SERVICE CABLES

NUMBERED NOTES

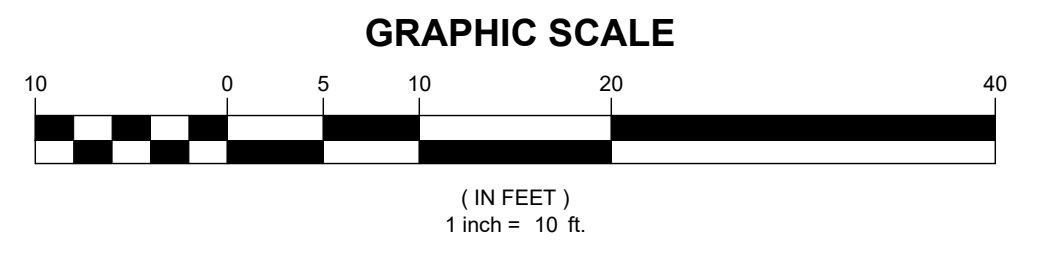
1. CONTRACTOR SHALL INSTALL 2 METERS AND 1 CIRCUIT NEMA 3R PANEL, 1 FOR THE STREET LIGHTS WITH PHOTO CELL CONTROL AND 1 FOR THE ELECTRIC CAR CHARGING STATION.
2. CONTRACTOR SHALL FURNISH THE LIGHT FIXTURE WITH MOUNTING ARM AND THE LOCAL UTILITY COMPANY WILL INSTALL THE LIGHT FIXTURE AND MAKE ALL POWER CONNECTIONS. COORDINATE ALL WORK WITH THE LOCAL UTILITY.
3. CONTRACTOR SHALL PROVIDE A NEW SERVICE RISER FOR THE NEW METERS. COORDINATE THE REQUIREMENTS WITH THE LOCAL UTILITY.
4. CONTRACTOR SHALL MOUNT (2) CLIPPER CREEK HCS-40R-N-B CAR CHARGING STATIONS TO A PMD-10R PEDESTAL, FURNISHED BY THE OWNER. COORDINATE THE RECEIPT WITH THE OWNER. REFER TO DETAIL D1 ON SHEET E-002 FOR ADDITIONAL INFORMATION.
5. CONTRACTOR SHALL PROVIDE A 8"X8"X8" IN GRADE QUARTZITE PULL BOX FOR FUTURE CHARGING STATION CONNECTION.

GENERAL NOTES

1. ALL UNDERGROUND PRIMARY POWER CONDUITS SHALL BE 5" PVC WITH ALL ABOVE GROUND PORTIONS RIGID STEEL CONDUIT. CONVERT TO RIGID PRIOR TO THE 90 DEGREE BEND, UP TO 8' ABOVE FINISH GRADE UNLESS OTHERWISE NOTED.
2. ALL UNDERGROUND SECONDARY POWER CONDUITS SHALL BE 2" PVC UNLESS OTHERWISE NOTED.
3. ALL UNDERGROUND TELEPHONE AND CABLE (COMMUNICATIONS) DISTRIBUTION CONDUITS SHALL BE 4" PVC UNLESS OTHERWISE NOTED.
4. ALL UNDERGROUND TELEPHONE AND CABLE SERVICE CONDUITS SHALL BE 1-1/4" PVC UNLESS OTHERWISE NOTED.
5. EXCLUSION ZONES FOR ALL UNDERGROUND CONDUITS ARE 5' FROM A BUILDING FOUNDATION AND 10' ALONG THE CENTERLINE OF THE WATER SERVICE LINE OR SERVICE LINE CLUSTERS. COORDINATE LOCATIONS WITH THE WATER PIPE INSTALLER.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SERVICE CONNECTION POINTS AND ROUTE ALL UNDERGROUND CONDUITS ON PUBLIC PROPERTY OR ON THE BUILDING OWNERS THAT THE SERVICE IS FOR, UNDER NO CIRCUMSTANCE SHALL SERVICE CONDUITS CROSS OWNERS PROPERTY LINES.
7. AFTER NEW ELECTRICAL SERVICES ARE INSTALLED TO A BUILDING, CONTRACTOR SHALL REMOVE THE EXISTING SERVICES AS REQUIRED.
8. CONTRACTOR SHALL COORDINATE ALL NEW UTILITY POLE MOUNTED LIGHTING WITH THE LOCAL UTILITY COMPANY AND CONNECT TO THE EXISTING SECONDARY LIGHTING SYSTEM.



**ELECTRICAL PART PLAN D
FOR
NORTHEAST HARBOR VILLAGE CENTER
IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE**



CES INC
Engineers • Environmental Scientists • Surveyors

Princeton, MA
44 Main Street
Princeton, MA 01061
T. 207-795-8412
F. 207-795-8414

Bar Harbor, ME
1561 State Hwy 102
Bar Harbor, ME 04719
T. 207-285-0588
F. 207-285-8387

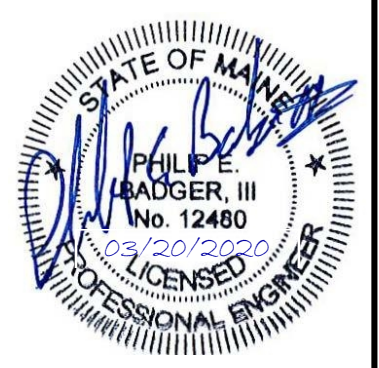
**NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE**

ELECTRICAL PART PLAN D

PROJECT TITLE: _____
SHEET TITLE: _____

REV	DATE	DESCRIPTION	BY	CHKD	APP'D

ISSUED FOR CONSTRUCTION



SCALE: 1"=10'	
DATE: 2019.03.26	
DRAWN BY: PEB	CHECKED BY: PEB
DESIGNED BY: PEB	APPROVED BY: TEN
XREF NUMBER: 10328.016	
DRAWING NUMBER: _____	

E-104

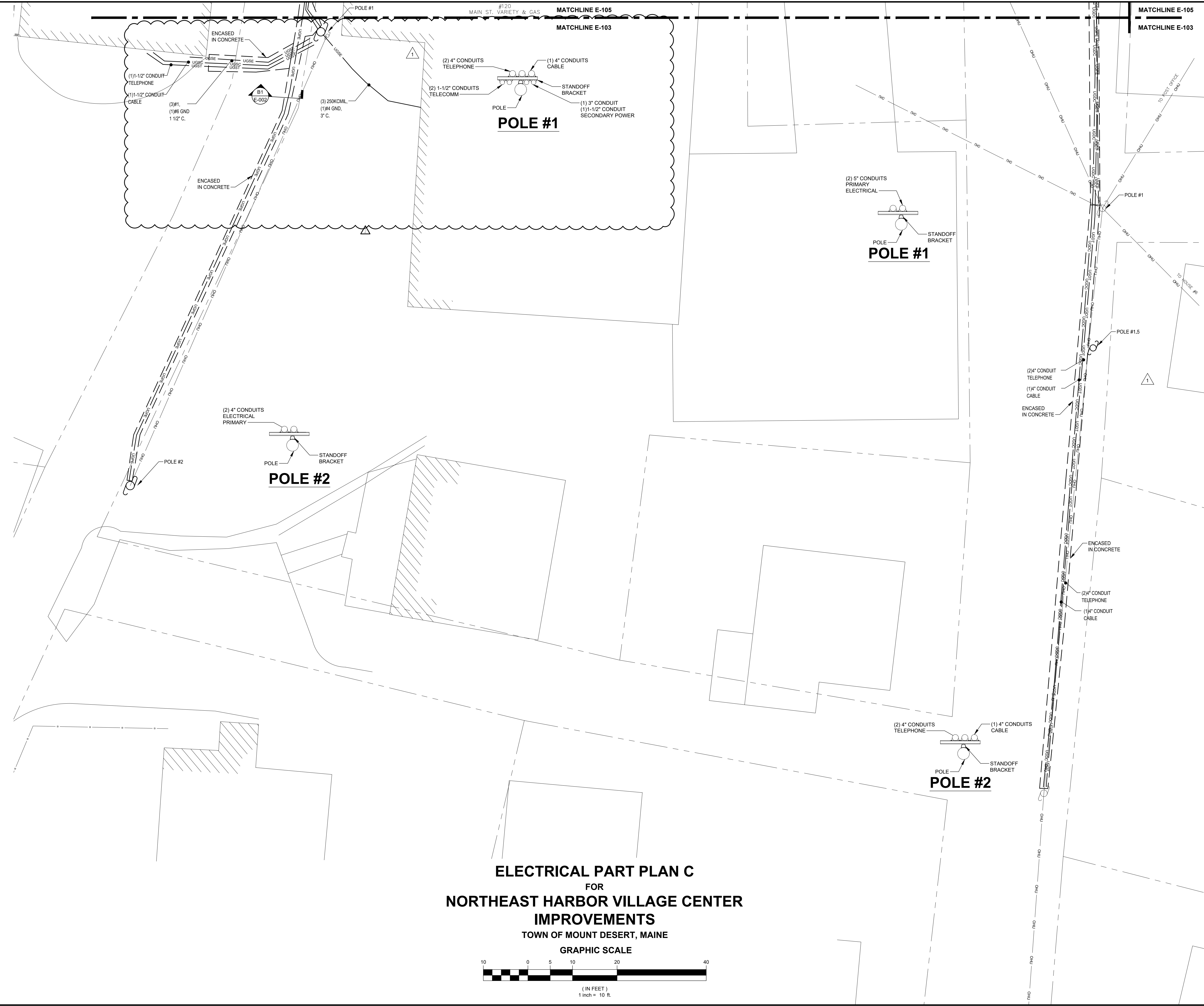
P:\10328\MOUNT_DESERT_TOWN_OF_MOUNT_DESERT_VILLAGE_CENTER_IMPROVEMENTS\CAD_DRAWINGS\MISC_DRAWINGS\ELECTRICAL\10328-E-105-DWG_20190326.dwg, 3/20/2019 8:58 AM

GENERAL NOTES

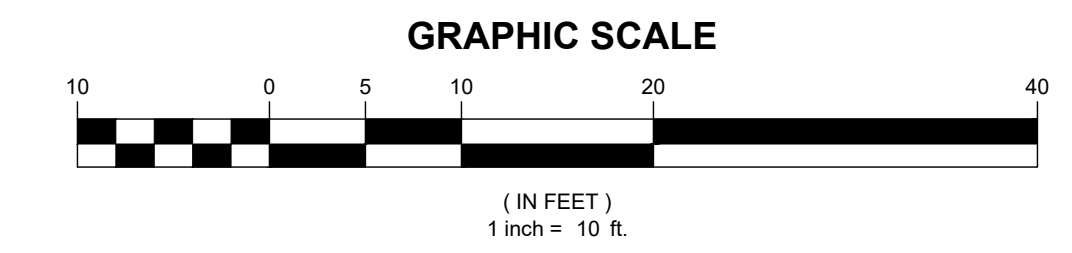
1. ALL UNDERGROUND PRIMARY POWER CONDUITS SHALL BE 3" PVC WITH ALL ABOVE GROUND PORTIONS RIGID STEEL CONDUIT. CONVERT TO RIGID PRIOR TO THE 90 DEGREE BEND, UP TO 8' ABOVE FINISH GRADE UNLESS OTHERWISE NOTED.
2. ALL UNDERGROUND SECONDARY POWER CONDUITS SHALL BE 2" PVC UNLESS OTHERWISE NOTED.
3. ALL UNDERGROUND TELEPHONE AND CABLE (COMMUNICATIONS) DISTRIBUTION CONDUITS SHALL BE 4" PVC UNLESS OTHERWISE NOTED.
4. ALL UNDERGROUND TELEPHONE AND CABLE SERVICE CONDUITS SHALL BE 1-1/4" PVC UNLESS OTHERWISE NOTED.
5. EXCLUSION ZONES FOR ALL UNDERGROUND CONDUITS ARE 5' FROM A BUILDING FOUNDATION AND 10' ALONG THE CENTERLINE OF THE WATER SERVICE LINE OR SERVICE LINE CLUSTERS. COORDINATE LOCATIONS WITH THE WATER PIPE INSTALLER.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL SERVICE CONNECTION POINTS AND ROUTE ALL UNDERGROUND CONDUITS ON PUBLIC PROPERTY OR ON THE BUILDING OWNERS THAT THE SERVICE IS FOR, UNDER NO CIRCUMSTANCE SHALL SERVICE CONDUITS CROSS OWNERS PROPERTY LINES.
7. AFTER NEW ELECTRICAL SERVICES ARE INSTALLED TO A BUILDING, CONTRACTOR SHALL REMOVE THE EXISTING SERVICES AS REQUIRED.

LINE TYPE LEGEND

- UGPE — UNDERGROUND PRIMARY POWER CONDUIT
- UGSE — UNDERGROUND SECONDARY POWER CONDUIT
- UGDC — UNDERGROUND CABLE DISTRIBUTION CONDUIT
- UGDT — UNDERGROUND TELEPHONE DISTRIBUTION CONDUIT
- UGSC — UNDERGROUND CABLE SERVICE CONDUIT
- UGST — UNDERGROUND TELEPHONE SERVICE CONDUIT
- OHSE — OVERHEAD SECONDARY POWER CABLE
- OHSC — OVERHEAD CABLE SERVICE CABLE
- OHTS — OVERHEAD TELEPHONE SERVICE CABLE
- OHCS — OVERHEAD COMMUNICATIONS (BOTH CABLE AND TELEPHONE) SERVICE CABLES



ELECTRICAL PART PLAN C
FOR
NORTHEAST HARBOR VILLAGE CENTER
IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE



CES INC
Engineers • Environmental Scientists • Surveyors

Warrville
44 Main Street
Warrville, ME
T. 207-795-8412
F. 207-795-8414

Brewer
405 Soan Main Street
Brewer, ME
T. 207-588-4824
F. 207-588-4821

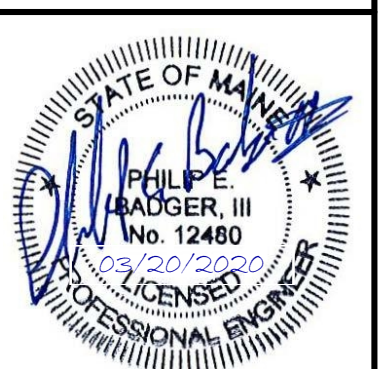
Lebanon
811 Dublin Street
PO Box 897
Lebanon, ME
T. 207-255-5270
F. 207-255-8387

NORTHEAST HARBOR VILLAGE CENTER IMPROVEMENTS
TOWN OF MOUNT DESERT, MAINE

ELECTRICAL PART PLAN E

NO.	DATE	BY	CHKD BY	DESCRIPTION
1	2019.03.26	PEB	PEB	UTILITY COMPANY CHANGES
2		PEB	PEB	GENERAL REVISIONS & UTP LOCATIONS

ISSUED FOR CONSTRUCTION



SCALE	1"=10'
DATE	2019.03.26
DRAWN BY	PEB
CHECKED BY	PEB
DESIGNED BY	PEB
APPROVED BY	TEN
XREF NUMBER	10328.016
DRAWING NUMBER	

E-105