



CITY OF SOMERVILLE
Commonwealth of Massachusetts
93 Highland Avenue
Somerville, MA 02143
(617) 625-6600

BUSINESS LICENSE APPLICATION - Grant of Location

File #: 21-012757

License #: BL21-000156

Address: 161 BROADWAY

Licensee: Matthew Pricco Network Building + Consulting

DBA Name: ExteNet Systems, Inc.

Business Ownership Type: Corporation

Legal Name of Entity: ExteNet Systems, Inc.

Owners/Officers: James A. Hyde, H. Anthony Lehv, Daniel L. Timm,

License Information:

Grant of location issued to: ExteNet Systems, Inc.

Describe the reason for the work, and the intended beneficiaries: This work is necessary to provide an underground connection for a small wireless facility at 161 Broadway. The facility will improve wireless communications services for residents, businesses, and visitors in the vicinity.

Insert here the same detailed description of the work as appears in the attached Grant of Location Order: Broadway: - Starting at existing Eversource MH #11126 placing (1) 3" PVC for Power Feed approximately 20' to the Proposed Handhole 2' SE of Proposed NE-MA-BSTN3N01-03331 Node Location. - Proposed 24x36x24 Dual Compartment Handhole to service NE-MA-BSTN3N01-03331 Node Location. - Starting at Proposed Handhole placing (1) 3" PVC for Power Feed approximately 2' to the Proposed NE-MA-BSTN3N01-03331 Node Location.

Approval Conditions:

Approved By:

Karla Cuarezma, Approved

Malik Drayton, Approved with Conditions

APPROVAL CONDITION: MD20211215: Contractor shall take all necessary precautions to avoid damaging any tree or tree part with equipment.

APPROVAL CONDITION: MD20211215: All nearby street tree(s) shall be protected prior to and during all construction activities using TREE BOX or TREE WRAPS. . TREE BOX shall be constructed from 2 in. x 4 in. lumber creating a box around the border of the tree pit with 2 in. x 4 in. lumber standing straight up at the corners and wrapped with orange snow fence. Detail attached. . TREE

WRAPS (TREE TRUNK WRAPPING PROTECTION LUMBER) shall consist of 2 in. x 4 in. and 8 ft. height lumber wired together in close spacing with zip ties or 16 gauge galvanized steel wire to form a protective enclosure around tree trunks. Use burlap to separate the wood from the bark if necessary to prevent wood from scraping or bruising bark. Do not use staples or puncture the trunk in any way. APPROVAL CONDITION: MD20211215: Any tree roots less than two (2) inches in diameter that cannot be avoided during construction shall be carefully and cleanly cut with a clean pair of pruning shears or loppers. Roots are to be cut back flush with the edge of the trench. If any tree roots greater than two (2) inches in diameter are encountered, stop work immediately and contact the City Urban Forester. Any and all pruning of roots greater than 2 inches in diameter must be completed under the supervision of the City Urban Forester.

Eric Weisman, Approved

Kimberly M. Wells, Approved



CITY OF SOMERVILLE, MASSACHUSETTS
CITY CLERK'S OFFICE
KATJANA BALLANTYNE
MAYOR

KIMBERLY M. WELLS
CITY CLERK

May 3, 2022

NOTICE OF PUBLIC HEARING

You are hereby notified that the Somerville City Council will hold a Public Hearing on the following Petition. You are receiving this Notice because the Petitioner has reported that you own property that abuts the work that is being proposed. You and other members of the public are invited to attend and be heard at this Hearing.

Because of Governor Baker's recent orders limiting the number of people that may gather in one place, **this meeting of the City Council will be conducted via remote participation, online in a webinar hosted on the GoToWebinar platform.**

You have two ways to be heard at this meeting:

1. To attend and be heard, enter the link exactly as it appears below into your internet browser any time before the meeting. You will then be asked to register for the meeting. After registering, you will receive an email with instructions to join the webinar when it starts.
2. If you are unable to attend but wish to be heard, you may send written comments by US mail to the City Clerk at the address below, or by email to cityclerk@somervillema.gov. Your comments must arrive no later than 12 Noon on the day of the Hearing, in order to be sure they are conveyed to the Council.

PETITION: Extenet seeks a Grant of Location to install a total of 22 feet of conduit in Broadway: Starting from existing Eversource Manhole 11126 to a proposed handhole, then continuing to a small wireless facility node located at the intersection of Broadway and Minnesota Avenue.

PLACE: <https://attendee.gotowebinar.com/register/4259340243530203919>

TIME: Thursday, May 12, 2022, at 7:00 PM.

PURPOSE: The work is necessary to provide service to a small wireless facility.



NE-MA-BSTN3N01-TMO-03331

HUB: 4BS0365B

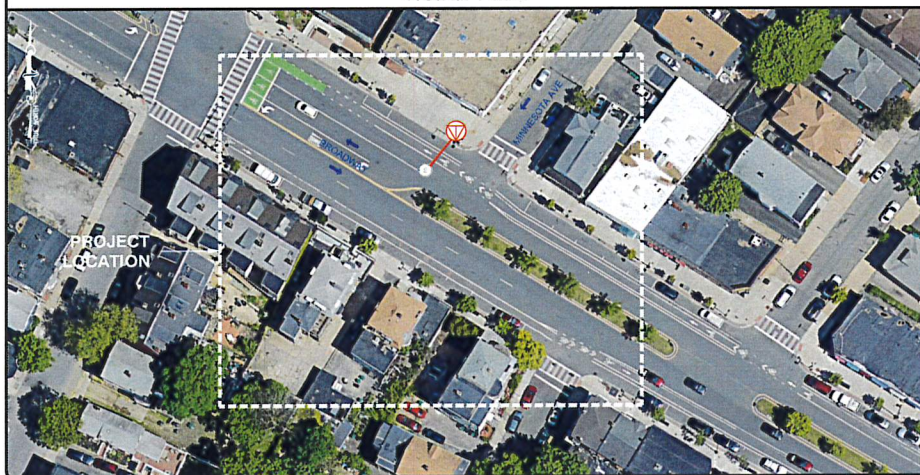
PETITION PLANS

161 BROADWAY, SOMERVILLE, MA 02145
CITY OF SOMERVILLE, MIDDLESEX COUNTY

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EXISTING FENCE LINE
- EDGE OF PAVEMENT
- EXISTING GAS LINE
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING D/H UTILITY LINE
- EXISTING WATER SERVICE
- EXISTING TELEPHONE
- EXISTING ELECTRIC
- EXISTING CONDUIT
- PROPOSED TRENCH
- PROPOSED ELECTRIC
- PROPOSED UNDERGROUND FIBER
- HUB
- FIBER NODE
- SPLICE ENCLOSURE
- SLACK LOOP
- PROPOSED POLE
- RISER
- POLE GROUNDING
- UTILITY POLE
- LIGHT POLE
- TRAFFIC POLE
- WATER VALVE
- GAS VALVE
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- UNKNOWN MANHOLE
- HANDHOLE
- STORM DRAIN
- ELECTRIC VAULT
- EXISTING STRUCTURE
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- HYDRANT
- EXISTING DOWN GUY WITH ANCHOR
- PROPOSED DOWN GUY WITH ANCHOR
- PROPOSED DOWN GUY WITH EXISTING ANCHOR

VICINITY MAP



PROJECT INFORMATION

SITE NAME: NE-MA-BSTN3N01-TMO-03331
 NB+C ES PROJECT NUMBER: 100523
 JURISDICTION: CITY OF SOMERVILLE, MIDDLESEX COUNTY
 EXTENET PROJECT MANAGER: ADAM DORIL, 3030 WARRENVILLE RD, SUITE 340, LISLE, IL 60532, NOC: (866) 892-5327
 HUB LOCATION: 4BS0365B, 422 MYSTIC AVENUE, SOMERVILLE, MA 02145
 ELECTRIC COMPANY: EVERSOURCE

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2015 INTERNATIONAL BUILDING CODE (MASSACHUSETTS AMENDED 9TH EDITION)
- 2017 NATIONAL ELECTRICAL CODE
- NFPA 1-2015 EDITION
- 2015 IFC - REFERENCE 527 CMR
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSII/A-222-G
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRICAL SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSII/T 311

DRAWING INDEX

- 01 TITLE SHEET
- 02 NOTES
- 03 UTILITY PLAN
- 04 DETAILS
- 05 FOUNDATION DETAILS & NOTES

PROJECT TEAM

ENGINEERING FIRM: NB+C ENGINEERING SERVICES, LLC.
 100 APOLLO DRIVE, SUITE 303
 CHELMSFORD, MA 01824
 (978) 856-8308

DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"x34" AND HALF SIZE AT 11"x17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

COBOLCS INFORMATION										
ENGINEERING FIRM	<p>TOTALLY COMMITTED.</p> <p>NB+C ENGINEERING SERVICES, LLC. 100 APOLLO DRIVE, SUITE 303 CHELMSFORD, MA 01824 (978) 856-8308</p>									
APPLICANT	<p>3030 WARRENVILLE ROAD, SUITE 340 LISLE, IL 60532 (630) 505-3800</p> <p>T-Mobile</p>									
SITE INFORMATION	<p>NE-MA-BSTN3N01-03331 4BS0365B 161 BROADWAY SOMERVILLE, MA 02145 CITY OF SOMERVILLE MIDDLESEX COUNTY</p>									
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ENGINEER	<p>KRUPAKARAN KOLANDAIVELU, P.E. MA PROFESSIONAL ENGINEER LIC. #50019</p>									
SHEET TITLE	<h3>TITLE SHEET</h3>									
SHEET NUMBER	<p>SHEET 01 OF 05</p>									

GENERAL NOTES:




- THE CONTRACTOR SHALL GIVE ALL NOTICE AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAS MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CONSTRUCTION MANAGER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN, EXCEPT FOR FIBER OPTIC CABLE AND OTHER MATERIALS IDENTIFIED BY.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWING/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATION UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTIONS MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND KEEPING A COPY ON SITE, ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY TO ORIGINAL OR BETTER CONDITION.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DIRT, OR SMUDGES OF ANY NATURE.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL IS RESOLVED BY THE CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE PROJECT.
- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION, OBTAIN SIGNED RECEIPT UPON DELIVERY.
- AFTER COMPLETION OF CONSTRUCTION, RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.
- WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC. REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF WORK.
- THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE THAT COULD AFFECT THE WORK UNDER THIS CONTRACT. ALL MANUFACTURERS RECOMMENDED SPECIFICATIONS, EXCEPT THOSE SPECIFICATIONS HEREIN, WHERE MOST STRINGENT SHALL BE COMPLIED WITH.
- THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MET. NOTIFY THE CONSULTANTS OF ANY CONFLICTS. THE CONSULTANT HAS THE RIGHT TO MAKE MINOR MODIFICATIONS IN THE DESIGN OF THE CONTRACT WITHOUT THE CONTRACTOR GETTING ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL THOROUGHLY CLEAN THE BUILDING, SITE, AND ANY OTHER SURROUNDING AREAS TO BETTER THAN NEW CONDITION.

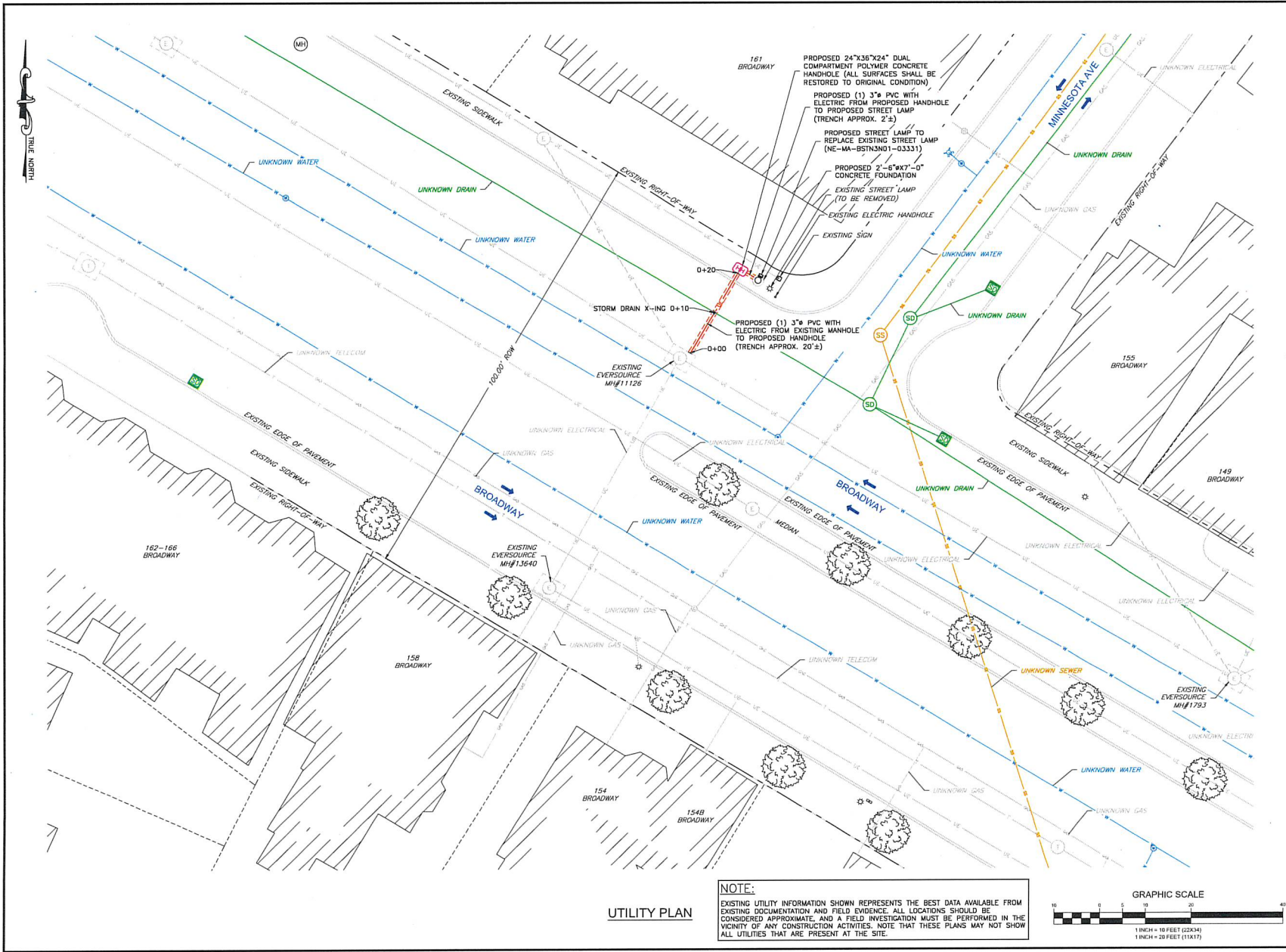
- THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS AND GOOD CONSTRUCTION PRACTICES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR INSTRUCTIONS OF THE ENGINEER AND/OR OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR RESTORATION OF ANY DAMAGE TO EXISTING ACCESS ROADWAY AND ANY ADJACENT SITE AS A RESULT OF HIS USE DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK.
- ALL ANCHORS SHALL BE 6" LONG, DOUBLE EYED, 10" SCREW TYPE UNLESS OTHERWISE SPECIFIED ON PLANS.
- ALL AERIAL CABLE SHALL BE DOUBLE-LASHED USING 0.45 STAINLESS LASHING WIRE.
- THE TOP OF ALL BURIED CONDUIT/CABLE WILL BE PLACED 48" BELOW GRADE UNLESS OTHERWISE SPECIFIED ON PLANS.
- MAXIMUM PULLING TENSION ON CABLES IS 600 LBS.
- THE CONTRACTOR MUST CONTACT ONE CALL FOR LOCATION OF EXISTING UTILITIES MINIMUM 72 HOURS PRIOR TO CONSTRUCTION.
- FOR OPTIMUM PROTECTION, CONNECTION TO EXISTING MULTI-GROUNDED NEUTRAL (MGN) SHOULD BE THE 1ST CHOICE FOR BONDING. PER NESC 96-C, MULTI GROUNDED SYSTEMS ARE AT EACH TRANSFORMER LOCATION AND AT ADDITIONAL POINTS WITH MAKE OR EXISTING ELECTRODES TO TOTAL NOT LESS THAN FOUR GROUNDS IN EACH MILE.
- PERMIT PLACARDS MUST BE ON SITE AND MADE AVAILABLE TO THE INSPECTOR UPON REQUEST. FAILURE TO COMPLY WILL RESULT IN THE PROJECT BEING SHUT DOWN, TAGGED, AND A DOUBLING OF THE PERMIT FEE.
- THE EXISTING UTILITY INFORMATION SHOWN REPRESENTS THE BEST DATA AVAILABLE FROM EXISTING DOCUMENTATION AND FIELD EVIDENCE. ALL LOCATIONS SHOULD BE CONSIDERED APPROXIMATE, AND A FIELD INVESTIGATION MUST BE PERFORMED IN THE VICINITY OF ANY CONSTRUCTION ACTIVITIES. NOTE THAT THESE PLANS MAY NOT SHOW ALL UTILITIES THAT ARE PRESENT AT THE SITE.

MANHOLE NOTES:

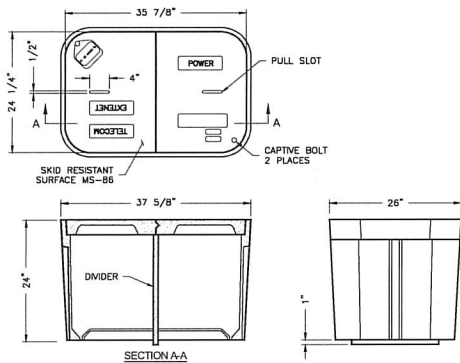
- THE TOPS OF MANHOLE FRAMES AND COVERS SHALL BE INSTALLED FLUSH WITH GROUND, PAVEMENT OR SIDEWALK.
- THE DRAIN HOLE SHALL BE FILLED WITH AGGREGATE CONFORMING TO THE REQUIREMENTS OF 805, GRADING NO. 67.
- CONDUIT ENTERING MANHOLES SHALL BE TERMINATED FLUSH WITH THE INSIDE WALL.
- CONDUITS SHALL BE ALIGNED IN AS NEARLY A STRAIGHT LINE AS POSSIBLE TO ALLOW FOR EASE OF PULLING CABLE.
- THE SPACE REMAINING BETWEEN THE CONDUIT AND THE STRUCTURE WALL SHALL BE FILLED OR PATCHED WITH CONCRETE OR ACCEPTABLE EQUAL SO THERE WILL BE NO LEAKAGE.
- MANHOLES SHALL BE SEATED ON TRENCH FILL MEETING THE REQUIREMENTS OF 804.05 IN ORDER TO PREVENT SETTLEMENT.
- THE FRAME AND COVER SHALL BE PAINTED BEFORE INSTALLATION WITH 1 FIELD COAT OF PRIMER MEETING THE REQUIREMENTS OF 811.03.
- COVERS FOR MANHOLES AND HANDHOLES SHALL BE MARKED ON THE OUTSIDE. MARKING SHALL BE PLACED PARALLEL TO THE LONG SIDE OF THE COVER.
- EACH COVER SHALL HAVE TWO 0.875 INCH PICK HOLES TO ALLOW THE COVER TO BE REMOVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND SHORING NECESSARY IN ORDER TO INSTALL THE MANHOLES AND HANDHOLE SHOW ON THE PLANS.
- THE CONTRACTOR SHALL ELECTRICALLY GROUND ALL METALLIC OBJECTS COMPRISING THE MANHOLE OR HANDHOLE INCLUDING THE FRAME AND COVER, CABLE RACKS AND REINFORCING STEEL AS APPROPRIATE.
- CABLE RACKS SHALL BE INSTALLED IN THE MANHOLE, AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL ADJUST THE MANHOLE TO GRADE USING A POURED CONCRETE COLLAR.
- THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR TEMPORARY PATCHING AROUND THE MANHOLE AND HANDHOLE AND MAINTENANCE OF THE PATCH UNTIL THE PERMANENT STREET CUT REPAIRS HAVE BEEN MADE.
- THE CONTRACTOR WILL SUBMIT CATALOG CUTS OF ALL PRECAST MANHOLES AND HANDHOLES THAT HE/SHE PROPOSES TO INSTALL. ALL STRUCTURES TO BE INSTALLED IN THE ROADWAY OR AREAS SUBJECT TO VEHICLE.



CONTRACT INFORMATION									
ENGINEERING FIRM	 <p>TOTALLY COMMITTED.</p> <p><small>NB+C ENGINEERING SERVICES, LLC. 100 APOLLO DRIVE, SUITE 303 CHELSEA, MA 01824 (978) 856-8308</small></p>								
APPLICANT	 <p><small>extenet YOUR NETWORK SYSTEMS 3030 WARRENVILLE ROAD, SUITE 340 LITTLE ROCK, AR 72622 (630) 505-3800</small></p> <p>T-Mobile</p>								
SITE INFORMATION	<p>NE-MA-BSTN3N01-03331 4BS0365B 161 BROADWAY SOMERVILLE, MA 02145 CITY OF SOMERVILLE MIDDLESEX COUNTY</p>								
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SHEET TITLE	<p>NOTES</p>								
SHEET NUMBER	<p>SHEET 02 OF 05</p>								



CORPUS INFORMATION	NB+C TOTALLY COMMITTED.									
	NB+C ENGINEERING SERVICES, LLC. 106 APOLLO DRIVE, SUITE 303 CHELSEA, MA 01824 (978) 456-4336									
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APPLICANT	extenet YOUR NETWORK EVERYWHERE SYSTEMS 3030 WARRENVILLE ROAD, SUITE 340 Lisle, IL 60532 (630) 505-3800 T-Mobile									
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SHEET TITLE	UTILITY PLAN									
SHEET NUMBER	SHEET 03 OF 05									

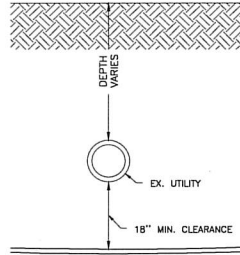


PG2436Z117HU5
24"x36"x24" TYPE-A VAULT

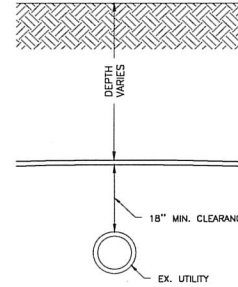
NOTES:

1. THE HANDHOLE SHALL BE SET WITH THE TOP COVER LEVELLED AND MATCHING THE EXISTING SURFACE.
2. THE FLOOR OF THE PIT SHALL BE COVERED WITH 10"-12" OF PEA GRAVEL. IN WATER PRONE AREAS 18" OF GRAVEL SHALL BE USED TO IMPROVE DRAINAGE. THE BASE OF THE HANDHOLE/PULL BOX SHALL BE OPEN AND PLACED IN THE CENTER OF THE PIT.
3. AN 8' LONG X 5/8" COPPER CLAD GROUND ROD SHALL BE DRIVEN INTO THE BOTTOM OF THE HANDHOLE/PULL BOX. A 3-OHM TEST IS REQUIRED. A BARE 6" LONG #6 BCW COPPER GROUND WIRE SHALL BE CLAMPED TO THE ROD AND ATTACHED TO THE GROUND LUG ON THE SIDE WALL OF THE HANDHOLE.
4. THE DUCT PLACED INTO HANDHOLE WALLS WILL USE APPROVED DUCT TERMINATORS TO SEAL DUCT ENTRANCE.
5. THE ANNULAR SPACE BETWEEN THE DUCT WALL AND THE FIBER OPTIC CABLE SHALL BE SEALED USING A SPLIT PLUG. THE SPLIT PLUG SHALL BE SIZED ACCORDING TO THE OUTSIDE DIAMETER OF THE FIBER OPTIC CABLE AND THE INSIDE DIAMETER OF THE DUCT.
6. ALL VACANT DUCTS SHALL BE SEALED USING AN EXPANDABLE BLANK DUCT PLUG. THE DUCT PLUG SHALL BE ACCORDING TO THE INSIDE DIAMETER OF THE DUCT.
7. ALL VAULTS IN THE PUBLIC RIGHT OF WAY ARE TO BE TRAFFIC BEARING.

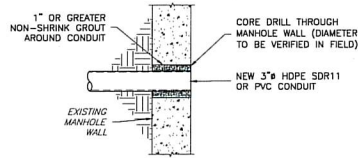
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04 NOT TO SCALE
TYPICAL TYPE-A VAULT DETAILS



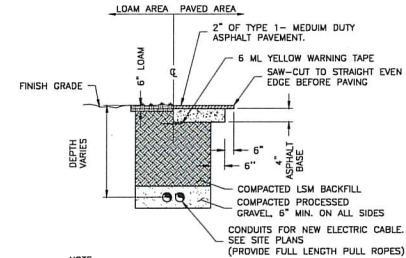
2
04 NOT TO SCALE
TYPICAL UTILITY CROSSING BELOW



3
04 NOT TO SCALE
TYPICAL UTILITY CROSSING ABOVE



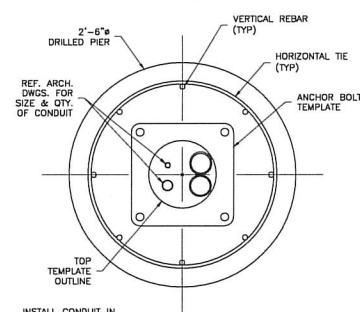
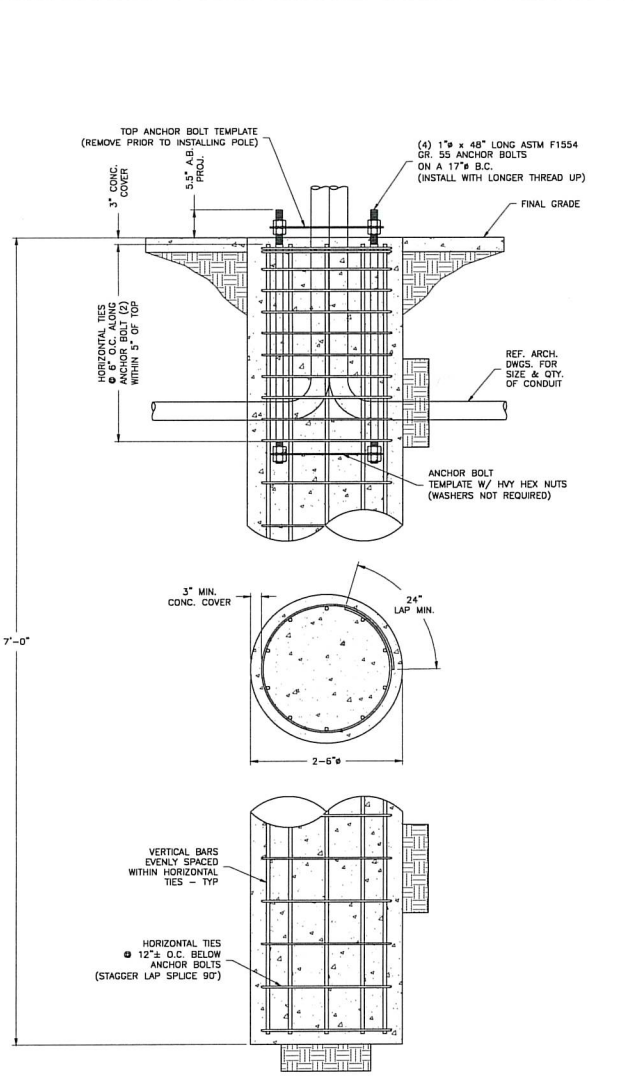
4
04 NOT TO SCALE
MANHOLE CONDUIT PENETRATION



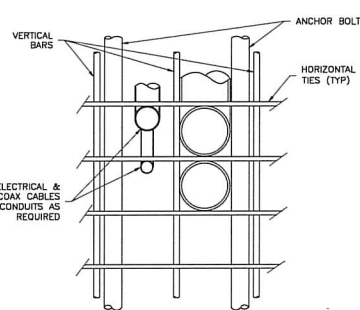
NOTE:
ANY EXCAVATION WITHIN FIVE FEET OF THE EDGE OF PAVEMENT IS TO INCLUDE PREMIUM BACKFILL. ANY EXCAVATION UNDER THE PAVEMENT IS TO BE BACKFILLED WITH LSM AND IS TO BE TOPPED WITH 4" OF ASPHALT BASE AND 2" OF TYPE 1-MEDIUM DUTY ASPHALT PAVEMENT.

5
04 NOT TO SCALE
UTILITY TRENCH RESTORATION DETAIL

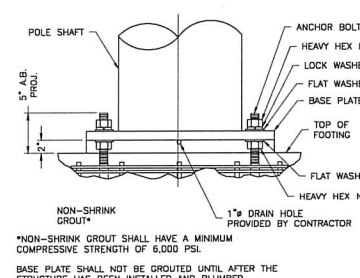
COBOLCS INFORMATION									
ENGINEERING FIRM	<p>NB+C ENGINEERING SERVICES, L.L.C. 100 APOLLLO DRIVE, SUITE 303 CHELSEA, MA 01824 (978) 856-8398</p>								
APPLICANT	<p>extenent SYSTEMS 3030 WARRENVILLE ROAD, SUITE 340 LITTLE R. 06032 (630) 585-3800</p> <p>Mobile</p>								
SITE INFORMATION	<p>NE-MA-BSTN3N01-03331 4BS0365B 161 BROADWAY SOMERVILLE, MA 02145 CITY OF SOMERVILLE MIDDLESEX COUNTY</p>								
DESIGN RECORD	<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10/14/21</td> <td>PRELIMINARY</td> <td>YD</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	0	10/14/21	PRELIMINARY	YD
REV	DATE	DESCRIPTION	BY						
0	10/14/21	PRELIMINARY	YD						
PROFESSIONAL STAMP									
ENGINEER	<p>KRUPAKARAN KOLANDAVELU, P.E. MA PROFESSIONAL ENGINEER LIC. #50019</p>								
SHEET TITLE	<p>DETAILS</p>								
SHEET NUMBER	<p>SHEET 04 OF 05</p>								



1 CONDUIT DETAIL @ PIER SEC.
05 NTS



2 CONDUIT DETAIL
05 NTS



3 BASE GROUNDING DETAIL
05 NTS

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR CHECKING AREA FOR UNDERGROUND FACILITIES PRIOR TO EXCAVATING ANY MATERIALS.
- CONTRACTOR SHALL INSPECT AND REMOVE ALL DEBRIS FROM BOTTOM OF EXCAVATION.
- CONTRACTOR SHALL VERIFY ANCHOR BOLT LAYOUT PRIOR TO, AND IMMEDIATELY AFTER PLACING CONCRETE. ANCHOR BOLT LAYOUT IS CRITICAL FOR MONOPOLE INSTALLATION.
- CONTRACTOR SHALL USE AND PROVIDE DEFORMED REINFORCING BARS CONFORMING TO ASTM A615 GR. 60 (60,000 PSI MIN. YIELD). CONTRACTOR SHALL USE STEEL WIRE TO HOLD REINFORCING BARS TOGETHER. IF WELDING REBAR IS PREFERRED, SUBSTITUTE USING A706 GR. 60 DEFORMED BARS.
- CONTRACTOR SHALL USE AND PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL USE 1" MAXIMUM STONE AGGREGATE MIX DESIGN: 6 1/2 SACKS OF CEMENT MINIMUM PER CUBIC YARD, 5" MINIMUM AND 7" MAXIMUM CONCRETE SLUMP.
- CONCRETE SHALL BE CONSOLIDATED USING VIBRATORY METHODS THROUGHOUT DEPTH OF FOUNDATION. VIBRATING LOWER DEPTHS MAY BE ACCOMPLISHED BY TOUCHING REBAR CAGE WITH VIBRATOR.
- CONTRACTOR SHOULD ANTICIPATE THE USE OF A FULL-LENGTH TEMPORARY CASING TO STABILIZE THE EXCAVATION. THE CASING SHALL BE WITHDRAWN DURING THE PLACEMENT OF CONCRETE IN THE EXCAVATED HOLE. CONCRETE SHALL BE PLACED USING CONVENTIONAL METHODS TO MINIMIZE SEGREGATION OF CONCRETE AND AGGREGATE. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FT. CONCRETE MAY BE PLACED BELOW WATER USING TREMIE METHODS.
- CONCRETE SHALL BE PLACED TO THE DEPTH INDICATED, AND THE ABOVE GRADE PORTION SHALL BE FORMED. THE REBAR CAGE, ANCHOR BOLTS, AND CONCRETE SHALL BE PLACED WITHIN 24 HOURS OF COMPLETING THE EXCAVATION. COLD JOINTS ARE NOT ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE CONCRETE COVERAGE OVER REINFORCING BARS TO MINIMIZE CORROSION POTENTIAL. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL USE 3" CONCRETE COVER OVER REBAR. TOP OF FOOTING SHALL BE TROWELLED LEVEL AND SMOOTH.
- DRILLED PIER FOUNDATION DESIGN PER 2009/2012 IBC, TABLE 1805.2, CLASS 4 MATERIAL.
- TOTAL VOLUME OF CONCRETE REQUIRED FOR THIS FOUNDATION IS APPROXIMATELY 1.5 CU. YDS.

FACTORED BASE REACTIONS

MOMENT	=	44.1 ft-kips
SHEAR	=	2.79 kips
VERTICAL	=	1.32 kips

SPECIAL INSPECTIONS

SPECIAL INSPECTION: THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER 2009/2012 IBC, SECTION 1704

ITEM DESCRIPTION	INSPECTION BY	MATERIAL
1. PIER EXCAVATION LATERAL BEARING CAPACITY	SOILS ENGINEER	300 PSF/FT LATERAL
2. PIER CONSTRUCTION REINFORCING STEEL BAR SIZES AND INSTALLATION	SPECIAL INSPECTOR	ASTM A615 GR. 60
3. ANCHOR BOLTS BOLT SIZE AND LENGTHS INSTALLATION	SPECIAL INSPECTOR	ASTM F1554 GR. 55
4. CONCRETE TEST SPECIMENS PLACEMENT OF CONCRETE	SPECIAL INSPECTOR	f _c =4,000 PSI TYPE II CEMENT

FOUNDATION DESIGN PREPARED BY WESTERN UTILITY/TELECOM, INC.

DESCRIPTION	QTY.	SIZE	LENGTH	WEIGHT	OVERLAP
VERTICAL BARS	8	#6	6'-6"	78 LBS.	N/A
HORIZONTAL TIES	11	#4	8'-4"	61 LBS.	2'-0"

COBOL'S INFORMATION

ENGINEERING FIRM

NB+C
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
100 APOLLO DRIVE, SUITE 303
CHELSEA, MA 01924
(978) 856-8338

APPLICANT

extenet YOUR NETWORK EVERYWHERE
SYSTEMS
3030 WARRENVILLE ROAD, SUITE 340
LITTLE ROCK, AR 72626
(501) 505-3800

T-Mobile

STATE INFORMATION

NE-MA-BSTN3N01-03331
4BS0365B
161 BROADWAY
SOMERVILLE, MA 02145
CITY OF SOMERVILLE
MIDDLESEX COUNTY

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
0	10/4/21	PRELIMINARY	YD

PROFESSIONAL STAMP

WESTERN UTILITY/TELECOM, INC.
REGISTERED PROFESSIONAL ENGINEER
NO. 50019

ENGINEER

KRUPAKARAN KOLANDAVELU, P.E.
MA PROFESSIONAL ENGINEER LIC. #50019

SHEET TITLE

FOUNDATION DETAILS & NOTES

SHEET NUMBER

SHEET
05 OF 05

Location:

89/ K/ 12/ /
161 BROADWAY

Owner:
SOMERVILLE REALTY VENTURES LLC
P O BOX 345
SOMERVILLE, MA 02143

Location:

89/ K/ 13/ /
165 BROADWAY

Owner:
CITY OF SOMERVILLE
COMMUNITY YOUTH CENTER
93 HIGHLAND AVE
SOMERVILLE, MA 02143

Location:

89/ K/ 15/ /
15-25 CROSS ST EAST

Owner:
CITY OF SOMERVILLE
PLAYGROUND
93 HIGHLAND AVE
SOMERVILLE, MA 02143

Location:

89/ K/ 11/ /
12 MINNESOTA AVE

Owner:
SINGH DALVIR
KAUR MANJIT
12 MINNESOTA AVE
SOMERVILLE, MA 02145