



Public Facilities Committee Agenda

City of Newton **In City Council**

Wednesday, April 3, 2019

7:00 PM
Room 204

Public hearing

- #114-19 ExteNet Systems petition for wireless grant of location on Adams Street**
EXTENET SYSTEMS, LLC petitioning for a grant of location to install a small cell wireless facility on an existing utility pole located in the right-of-way in the vicinity of 132 Adams Street. The installation will include an antenna, radio equipment, an electric meter, and cabling for fiber and power to enhance wireless coverage in the area. (60-day action date: 05/04/19)

Public hearing

- #115-19 ExteNet Systems petition for wireless grant of location on Beacon Street**
EXTENET SYSTEMS, LLC petitioning for a grant of location to install a small cell wireless facility on an existing utility pole located in the right-of-way in the vicinity of 262 Beacon Street. The installation will include an antenna, radio equipment, an electric meter, and cabling for fiber and power to enhance wireless coverage in the area. (60-day action date: 05/04/19)

Public hearing

- #116-19 ExteNet Systems petition for wireless grant of location on Commonwealth Avenue**
EXTENET SYSTEMS, LLC petitioning for a grant of location to install a small cell wireless facility on an existing city-owned streetlight pole located in the right-of-way in the vicinity of 140 Commonwealth Avenue. The installation will include an antenna, radio equipment, an electric meter, and cabling for fiber and power to enhance wireless coverage in the area. (60-day action date: 05/04/19)

Public hearing

- #279-18 Petition for Drain Extension in Staniford Street**
JAMES BARBERIO, 49 STANIFORD STREET, ET AL petition for main drain extensions in STANIFORD STREET from the property at 65 Staniford Street 450'± easterly to the existing sewer manhole at the intersection of Staniford Street and Freeman Street and

The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require assistance. If you need a reasonable accommodation, please contact the city of Newton's ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: jfairley@newtonma.gov or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

from the property at 68 Staniford Street 700'± to the existing sewer manhole at the intersection of Staniford Street and West Pine Street.

Referred to Public Facilities and Finance Committees

#118-19 Funding for a sewer main extension in Staniford Street

HER HONOR THE MAYOR requesting authorization to appropriate and expend two hundred fifty-six thousand dollars (\$256,000) from the Sewer Fund Reserve for the purpose of funding the Staniford Street Sewer Extension.

#133-19 Partial easement relocation on Boston College Middle Campus

COMMISSIONER OF PUBLIC WORKS requesting the relocation of a portion of an easement from the Trustees of Boston College to the City of Newton for drain lines in Section 63, Block 9, Lot 2 (Boston College Middle Campus) originally granted in 1917 and partially relocated in 2010 and 2013 under Board Orders # 232-10 and #232-10(2) and again in 2018 under Council Order #357-18 to reroute a portion of the existing City storm drain beyond the footprint of the planned Integrated Science Building. There will be no cost to the City.

Respectfully submitted,

Deborah Crossley, Chair



CITY OF NEWTON MASSACHUSETTS

APPLICATION FORM

This Application Form is to be used for the permitting of (1) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does not have any pre-existing Wireless Communication Facility attachments; (2) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does have pre-existing Wireless Communication Facility attachments, but does not satisfy the requirements under 47 U.S.C. §1455 and related Federal Communications Commission ("FCC") regulations; and (3) new pole construction in a public way primarily for purposes of providing Wireless Communication Services. Refer to City Council Wireless Grant of Location Standards & Procedures.

Filing of Application & Fee:

Please provide to the City Clerk in paper format an original and two (2) copies of your application and 10 copies of all attachments and plans. Also provide a complete application and attachments in PDF format or in a digital format compatible with the City's systems. **The application must be complete per the attached check list in order to be filed with the City Clerk.**

A filing fee of \$750 per location must accompany the application at the time of filing.

Applicant Contact Information:

Name: ExteNet Systems, Inc.

Phone: 617-680-5464

Address: 100 Apollo Dr., Chelmsford, MA

Email Address: kbrinn@nbcllc.com

Owner(s) of the Utility Pole:

Name: Eversource

Phone: 617-680-5464

Address: One NStar Way, Westwood, MA

Email Address: steve.kelly@eversource.com

Owner of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes in whose name a Grant of Location order would be issued:

Name: ExteNet Systems, Inc.

Phone: 617-680-5464

Address: 3030 Warrenville Rd., Lisle, IL

Email Address: kbrinn@nbcllc.com

If different than the Owner, the User of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes:

Name: _____ Phone: _____

Address: _____ Email Address: _____

If in residential area, is the location directly in front of a residence? ☐ Yes ☐ No

If yes, what is the distance between the proposed pole location and residence that it would front?

If the location is within a Historic District, please identify the historic district and state whether the applicant has filed for a Certificate from the Historic District Commission and if so, the date of that filing:

The Historic Preservation Officer has Certified that there is no adverse effect.

Pole #: _____

Description of Proposed Wireless Communications Facilities

Narrative description of the proposed wireless communications facilities.

The Applicant is seeking permission to build a small cell wireless facility utilizing an existing utility pole near the vicinity of 132 Adams St. This installation will include an antenna, radio equipment, an electric meter and cabling for fiber and power.

The applicant has an approved application with the local utility company that controls the pole and a Letter of Authorization is included here. This facility will assist in enhancing wireless coverage in the area by providing voice and data upgrades.

If an applicant proposes adding to the number of Wireless Communications Facilities or expanding the dimensions of the proposed wireless communications facilities (except with regard to replacement of existing wireless communications equipment with comparable equipment), the applicant must apply for a new wireless grant of location for the additional wireless communications equipment.

Compliance Issues

Identify any requirement or condition in the Standards with which the Applicant will not or cannot comply with and provide a complete explanation why it cannot or will not comply:

The Applicant is not aware of any requirement or condition with which it cannot comply. In the event there is additional information requested the Applicant will make all efforts to deliver and satisfy such requests.

Is the applicant requesting an exception to any standard under Section III.L.? If so, please specify the standard and provide factual support for the requested exception:

The Applicant is requesting no such exceptions at this time unless additional request are made by the City Departments.

Signature of Applicant: _____



Name and Title and any Business Name: Keenan Brinn - NB+C - Site Acquisition Consultant

Name of Principal or Client of Applicant: Extenet Systems, Inc.

Date Signed: _____

2-26-19

TABLE OF CONTENTS

ATTACHMENT A - SITE PLAN

ATTACHMENT B - PHOTO SIMULATIONS

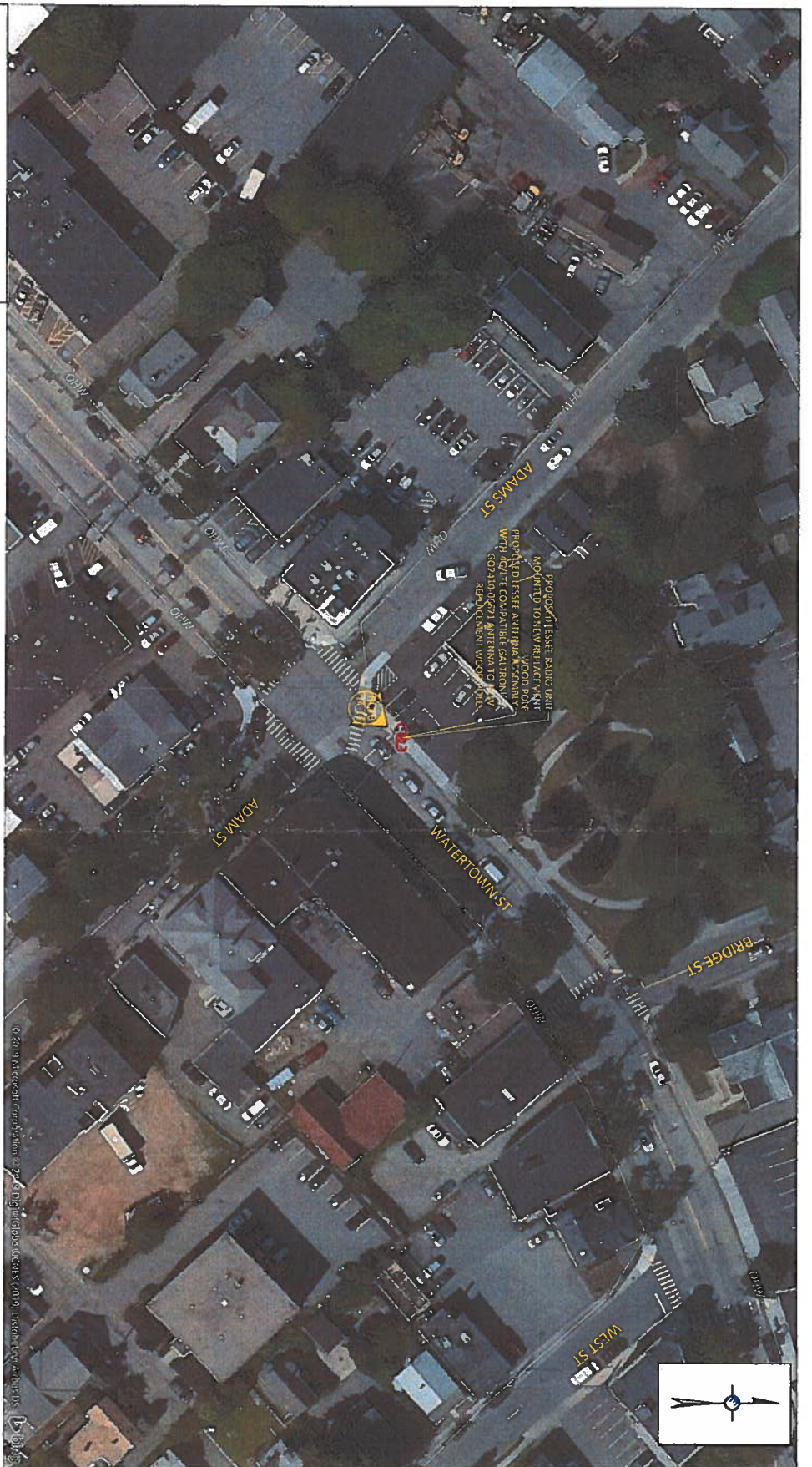
ATTACHMENT C - EVERSOURCE UTILITY LICENSE

ATTACHMENT D - RF EMISSIONS STUDY

ATTACHMENT E - EVERSOURCE LETTER OF AUTHORIZATION

ATTACHMENT F - HISTORIC PRESERVATION CERTIFICATION

ATTACHMENT A



P.E. STAMP AREA:

AREA MAP

SCALE: 1" = 60'

LATITUDE: 42.360137° LONGITUDE: -71.202278°

ELEVATION: 42.64' AGL

NODE RCTB-14_18 NE-MA-ALBRD3M1-14018

132 ADAMS ST,

NEWTON, MA 02458

(NORTHEAST SIDE OF WATERTOWN ST)
LEASE EXHIBIT NOT FOR CONSTRUCTION

PROJECT INFORMATION

INDEX:

1	COVER PAGE
2	NODE PROFILE

POLE OWNER: EVERSOURCE 50%
VERIZON 50%CONTACT: RICK ANGELINI
3030 WAREHEAVILLE RD
SUITE 340
LITTLE ROCK, AR 72640
PH: (501) 802-9327LOCATION: NEWTON, MA
MIDDLESEX COUNTY

NOTES:

THESE PLANS REPRESENT A PORTION OF A PROPOSED SMALL CELL BUILD INVOLVING THE INSTALLMENT OF AN ANTENNA AND RADIO EQUIPMENT ON AN EXISTING WOODEN UTILITY OR REPLACEMENT METAL STREETLIGHT POLES.

PREPARED FOR:

extene
SYSTEMS

PREPARED BY:

UC SYNERGETIC
21 ORFORD RD
MIDDLESEX, MA 02458
www.ucsynergistic.com 508.337.7600

NODE

RCTB-14_18

COVER PAGE

REV	REVISIONS	DATE

DRAWN BY:

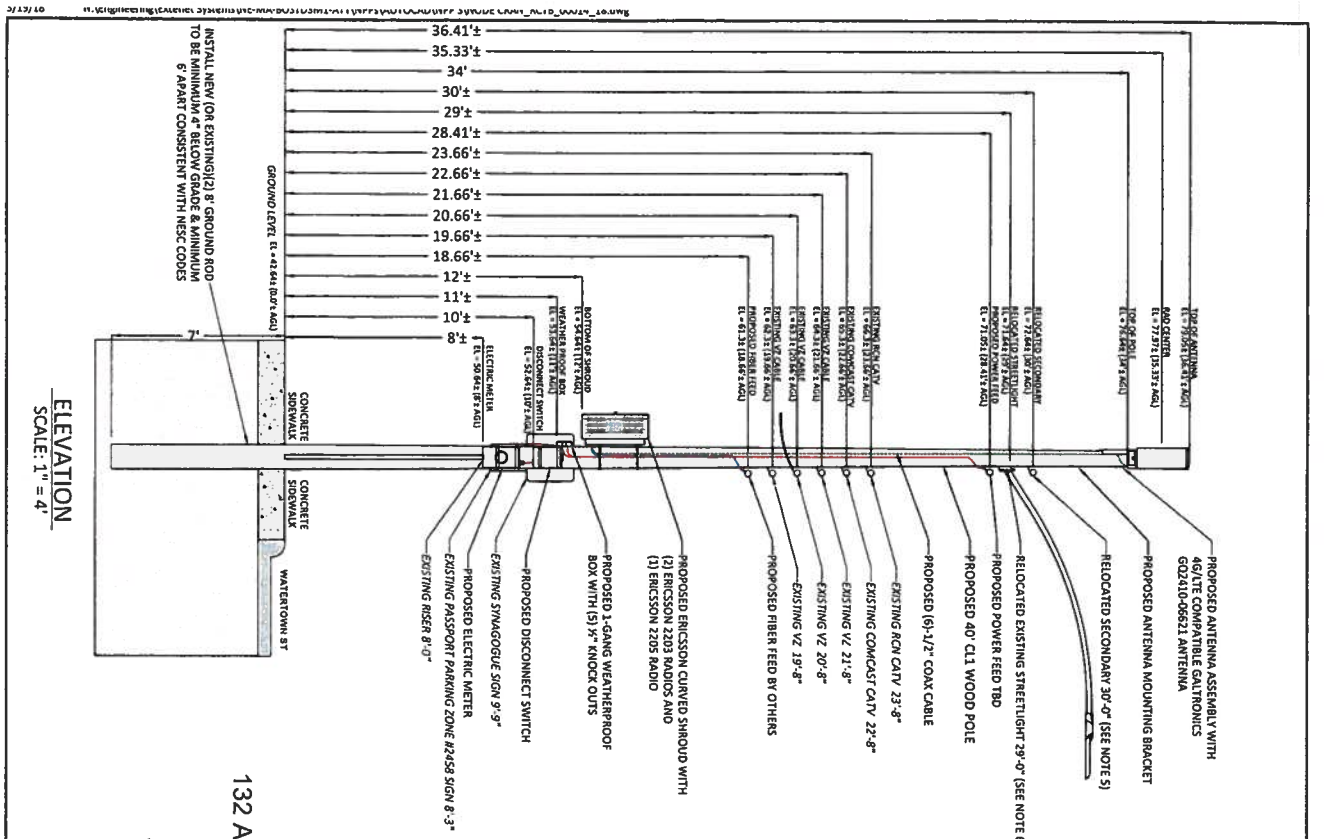
SCALE: AS SHOWN

ISSUE DATE: 01/22/19

PROJECT NAME: RCTB-14_18

SHEET # 1 OF 2

1



DRAWINGS NOTES:

NOTE 1:
40' MIN. WORKER SAFETY ZONE BETWEEN LOWEST POWER & HIGHEST COMMUNICATIONS CABLE IN ACCORDANCE WITH NESC REGULATIONS

NOTE 2:
PROPOSED FIBER TO BE INSTALLED BY OTHERS

NOTE 3:
PROPOSED EQUIPMENT TO BE PAINTED TO BLEND WITH POLE

NOTE 4:
FEET INDICATED SIGNAGE TO BE ATTACHED TO POLE

NOTE 5:
MOVE SECONDARY 31'-3" TO 39'-0" TO ACCOMMODATE NEW EQUIPMENT

NOTE 6:
MOVE STREETLIGHT 27'-3" TO 29'-0" TO ACCOMMODATE NEW EQUIPMENT

132 ADAMS ST, NEWTON, MA
SIDE PROFILE
EXISTING WOOD POLE
TO BE REPLACED WITH
40' CL1 WOOD POLE
P. 31/15 WATERTOWN ST
40' CLASS 1
2019

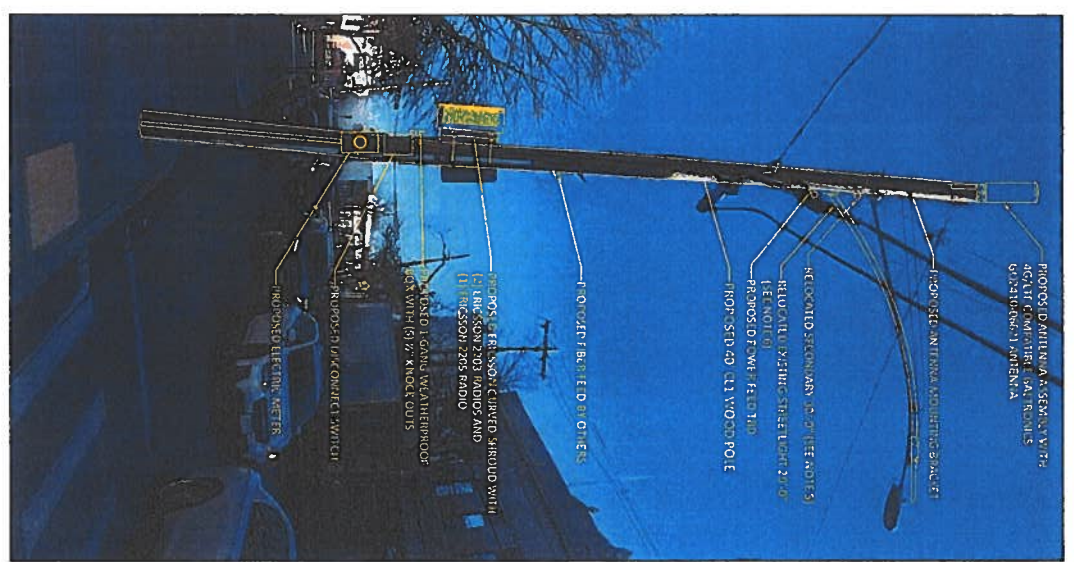


PHOTO ELEVATION
SCALE: N.T.S

LOCATION: NEWTON, MA
MIDDLESEX COUNTY

NOTES:

PREPARED FOR:
extenei YOUR WEATHER SYSTEMS

PREPARED BY:
UC SYNERGETIC
110 GORDON RD
MILFORD, MA 01834
www.ucsynerg.com 1-800-337-7600

PROJECT:
NODE
RCTB-14_18
SIDE PROFILE

REV	DESCRIPTION	DATE

DRAWN: A.C.
SCALE: SEE SCALE BAR
ISSUE DATE: 02/15/18
INDEX NAME: RCTB-14_18
SHEET: 2 OF 2

2

ATTACHMENT B



Site Name: NE-MA-ALBRD3M1
14018
Wireless Communication Facility
132 Adams Avenue
Newton, MA 02467

Photograph Information:
Adams Avenue
Showing the Existing Site

NB-CTM
TOTALLY COMMITTED.



Site Name: NE-MA-ALBRD3M1
14018
Wireless Communication Facility
132 Adams Avenue
Newton, MA 02467

Photograph Information:
Adams Avenue
Showing the Proposed Site

NB-C
TOTALLY COMMITTED.

ATTACHMENT C

Form 2

AUTHORIZATION FOR FIELD SURVEY WORKLicensee: Extenet Systems

In accordance with Article III & Appendix I of the Pole Attachment Agreement, following is a summary of the charges which will apply to complete a field survey covering Pole Attachment License Application Number NEW-ALBRD3M1-14018 in the municipality of Newton in the State of Massachusetts.

FIELD SURVEY CHARGES

<u>Field Survey</u>	<u>#Poles</u>	<u>Unit Rate</u>	<u>Total</u>
Field Survey Application Fee (Covers 1 pole)			<u>\$139.00</u>
Field Survey 2-200 Poles	<u>0</u>	<u>\$13.45</u> per Pole	<u>\$0.00</u>
Additional Travel Time*	<u>0</u>	<u>\$220.50</u> per Day	<u>\$0.00</u>
TOTAL Charges			<u>\$139.00</u>

* Based on average of 75 poles surveyed per day, add \$220.50 travel time for each additional day required to complete survey.

Please note, if you calculated the cost incorrectly, your check will be returned and a new check for the correct amount must be received by this office in order to schedule the survey. If you need assistance, please call the **HOTLINE** on (800) 641-2299.

The required field survey covering Pole Attachment License Application # NEW-ALBRD3M1-14018 is authorized. I am enclosing an advance payment in the amount of \$139.00.

Licensee's Name (Print) Extenet SystemsSignature: Lili MendoncaTitle: Lili Mendonca (Agent)Tel. No. 978-995-7101Fax No. (603) 598-0097E-mail: util-mgt-group@waveguidefiber.com

FORM 3 - VERIZON ITEMIZED Pole Make-Ready Work Charges

PAGE 1 OF 1

Appendix IV Form 3

FIELD SURVEY / MAKE READY WORK FORM															
SURVEYORS:			DATE OF SURVEY:			CWO #:									
Verizon			MUNIC: Newton			STATE: MA			Exch Code:			Munic Code:			
Licensee			Waveguide			LICENSEE NAME:			Extenet Systems			LICENSEE APPLICATION#: NEW-ALBRD3M1-14			
ELCO			ELCO NAME:			Eversource			VERIZON APPLICATION #:						
LOCATION		POLE #		ATT		OWNERSHIP			CHARGE			WORK DESCRIPTION			
TEL RTE / STREET NAME	TEL	EL	F/C	J.O.	J.U.	F.O.	YES	NO				TASK #S / REMARKS		* Height of Att.	
List one pole per line	Tel	El	P.S. Riser	Tel	El	Tel	El	Tel	El	Tel	El				
132 Adams St, Newton, MA	31/15	31/1	5									ANTENNA ATTACHMENT			*
															*
															*
															*
															*
TOTALS:															

• Height of Attachment = Height of Licensee Attachment shall be 40" below ELCO MGN unless otherwise noted here by Verizon and ELCO surveyor.
 • Licensee to complete bold italicized areas only. (Provide ownership information if known)



Work Order Application - NEW-ALBRD3M1-14018

Customer Request In-Service Date: ASAP **WO Received Date:** _____

Service Address: Street: Utility Pole # 31/15 - 132 Adams St. Newton, MA

See attached NEW-ALBRD3M1-14018 Node profile.

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: ExteNet Systems Inc.

DBA - C/O Name: _____

Billing Address: 3030 Warrenville Rd, Suite 340, Lisle, IL 60532

Telephone: 630-535-3800

Tax ID Number: 22-3876065

Existing Account or Meter Number (if applicable): _____

Property Owner Name (if different from above): _____

Owner Address: _____

Owner Phone Number: _____

Party Responsible for Construction costs associated with work order (if different from above)

Name: _____

Address: _____

Phone Number: _____

Please Note that Articles of Incorporation are required for new commercial Eversource Customers

Type of Service Requested: (Circle Appropriate)

New Service ☒ XXX

Service Upgrade

Service Relocation

Temporary Service

Pole Relocation

Disconnect/Reconnect

Service Removal

Metering Only

OH Service from Pole, Pole#: 31/15 UG Service from: Riser-Pole #: _____ Padmount #: _____

Customer Loading

Type of Load	New Connected Load in KVA	
	Single Phase	Three Phase
Lighting		
Electric heat		
Air Conditioning		
Refrigeration		
Cooking		
Electric Dryer		
Water Heater		
Computer		
Process Equip.		
Motors/Elevators		
Miscellaneous	<3.6 KVA	
Totals	<3.6 KVA	

Brief Description of Work

Install new Antenna and power supply cabinet for Extenet Systems Inc. Needs permanent connection by aerial HTap

Single Phase

120/240 Amps

20 Amps

Number of Meters Required:

Residential: _____

Commercial: 1

Public: _____

Main Switch Voltage: 120/240

Amperage: 20

Phase: 1

Service Voltage: _____

Amperage: _____

Phase: _____

Facility Type (ie: school, hospital): _____ New Building Square Feet: _____

Additional Equipment:

Generator: KW: _____ Phase: _____ Purpose: _____

Motor(S) : Total # : _____ Largest HP: _____ Phase: _____ Locked Rotor AMP: _____

Type of Starting Compensation (choose one): Hard Soft Capacitor VFD

*See Article 802 of NSTAR Information and Requirements Book for Maximum LR current and Three Phase Protection *

Contact Name (circle appropriate):Customer/Contractor/Consultant: Lili Mendonca – Waveguide Inc.Street Address: 10 N. Southwood DriveCity, State, Zip: Nashua, NH 03063Telephone: 978-995-7101 Best Time to Call: AnytimePager: _____ Email: lmendonca@waveguidefiber.comCell: 978-995-7101Electrician: Dave McMullen License Number: _____Business Name: Newport ElectricStreet Address: 200 High Point Ave, B5,City, State, Zip: Portsmouth, RI 02871Telephone: 401-293-0527 Best Time to Call: _____

Pager: _____ Fax: _____

Cell: 617-908-4193

Please note that by Interconnecting with Eversource's Distribution System the Customer of Record acknowledges that they have reviewed and are in compliance with the NSTAR Information & Requirements for Electric Service (Blue Book).

Any questions with regards to your electric service can be answered by calling 888-NEEDPWR

You may Fax, email or mail any additional correspondence to:

Eversource Energy
1 NSTAR Way
Westwood, MA, 02090
Tel: (888) 633-3797
Fax: (781) 441-8721
MANewService@eversource.com

FOR EVERSOURCE USE ONLY

Eversource Revenue Allowance: _____ Eversource Rate: _____

KVA or KW rating of Existing Loads (if applicable):

Existing Winter Peak Demand: _____ Month/Date/Year: _____

Existing Summer Peak Demand: _____ Month/Date/Year: _____

Revised 03-15-06

EXTENET SYSTEMS
 CITY OF NEWTON
 132 ADAMS ST
 MIDDLESEX COUNTY, MA
 CRAN_RCTB_00014_18
 NE-MA-ALBRO3M1-14018

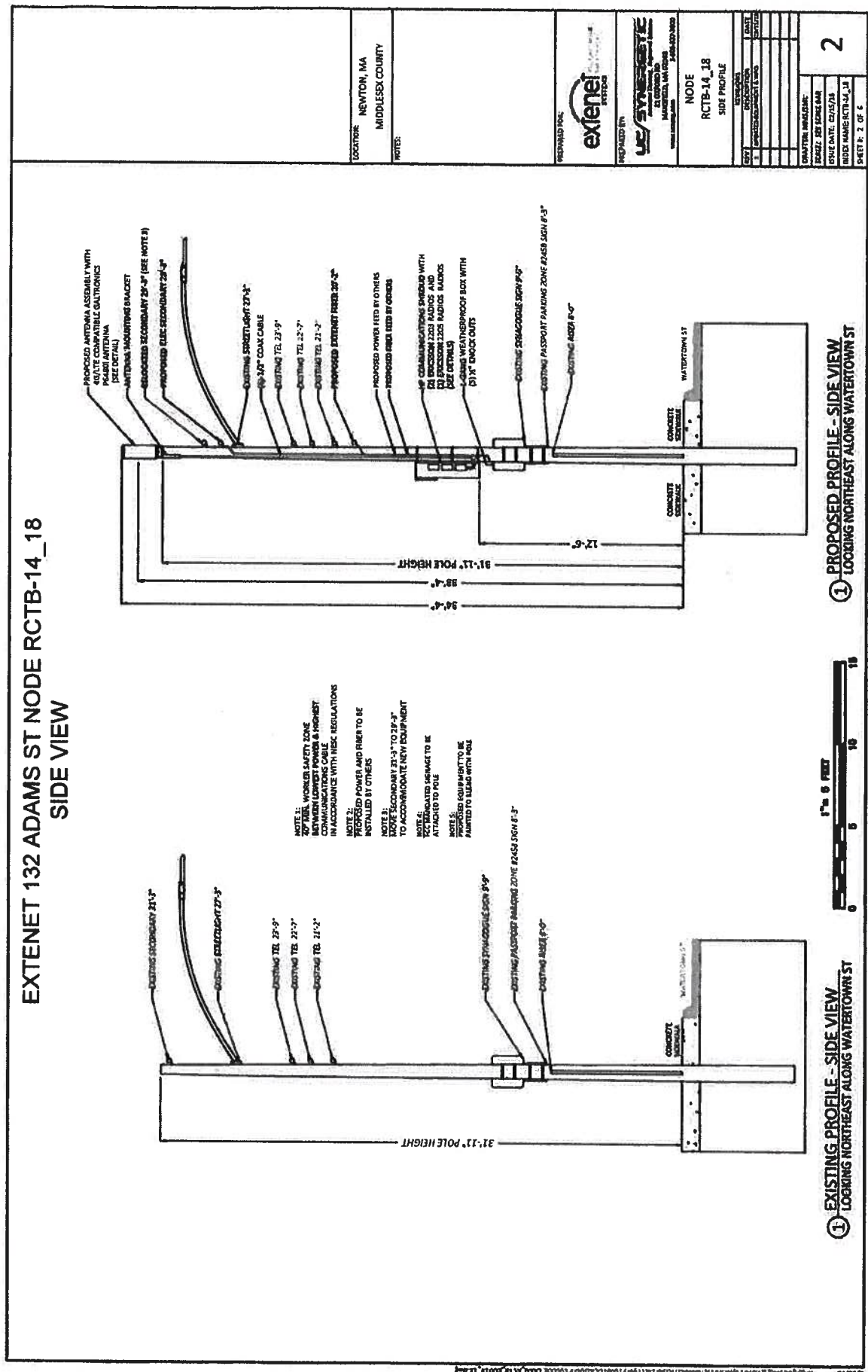
PROJECT DESCRIPTION:

THESE PLANS REPRESENT A PORTION OF A PROPOSED
 SMALL CELL BUILD INVOLVING AN EXISTING WOODEN
 UTILITY POLE AS DEPICTED. SETTING AN ANTENNA ATOP
 THE POLE AND INSTALLING POLE MOUNTED POWER AND
 RADIO EQUIPMENT.

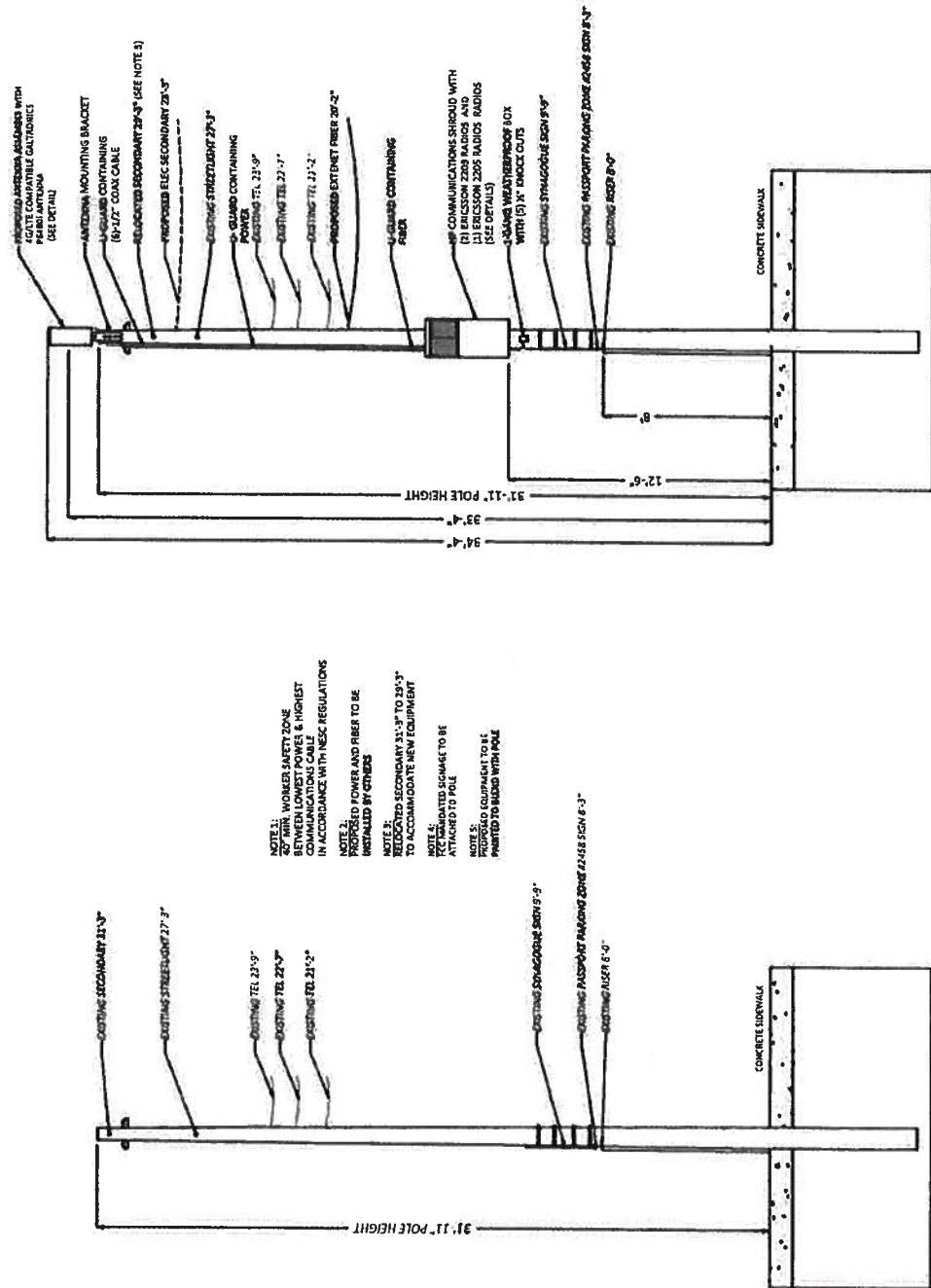
PROJECT INFORMATION
 INDEX:
 1 PROJECT INFORMATION
 2 SIDE PROFILE
 3 ROAD PROFILE
 4 DETAILS - ANTENNA AND RADIOS
 5 DETAILS - HANDS SHROUD
 6 EXISTING PHOTO / WIRING DIAGRAM
 POLE OWNER: DIRECTIONS LINE 1
 DIRECTIONS LINE 2
 DIRECTIONS LINE 3
 DIRECTIONS LINE 4
 DIRECTIONS LINE 5
 APPLICANT: DIRECTIONS LINE 1
 DIRECTIONS LINE 2
 DIRECTIONS LINE 3
 DIRECTIONS LINE 4
 DIRECTIONS LINE 5
 APPLICABLE CODE: DIRECTIONS LINE 1
 DIRECTIONS LINE 2
 LOCATION: NEWTON, MA
 MIDDLESEX COUNTY
 NOTES:

PREPARED FOR:
 extenet
 PREPARED BY:
 JES/SYNESISTE
 21 CORBRIDGE
 MANCHESTER, MA 02108
 PHONE: 603.252.2800
 MODE
 RCTB-14_18
 PROJECT INFORMATION
 SHEET NO. 1 OF 1

LOCUS MAP
 PROJECT LOCATION - NODE RCTB-14_18
 SCALE: 1" = 500'
 LOCATION MAP
 LATITUDE: 42.3670137 LONGITUDE: -71.2022718
 SCALE: 1" = 50'
 FOR PERMITTING ONLY



EXTENET DOWNTOWN BOSTON NODE RCTB-14_18
REAR VIEW



② EXISTING PROFILE- REAR VIEW
LOOKING SOUTHEAST TOWARDS WATERTOWN ST

② PROPOSED PROFILE - REAR VIEW
LOOKING SOUTHEAST TOWARDS WATERTOWN ST

[illegible]

For online access

extenel

NOTES

LIFE SYNTHETIC
Advanced Plastic Technology
 13 OXFORD RD
 HANFORD, MA 01838
 PHONE: (508) 313-2072
 FAX: (508) 313-2073

NODE

100-111-10

91-41-91-

EAR PROFILE

DISCLOSURE

NOTES

Case 11

1

1

1008 JOURNAL OF CLIMATE

SMA.

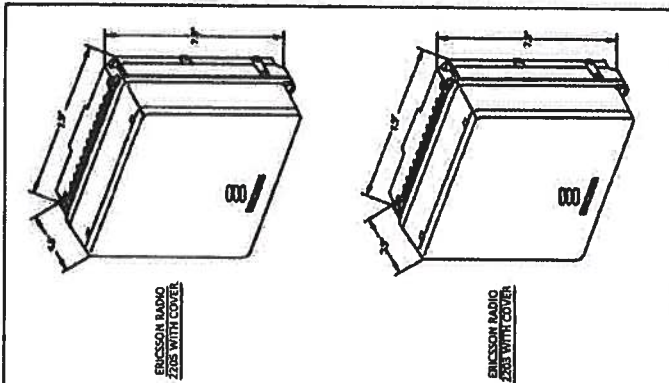
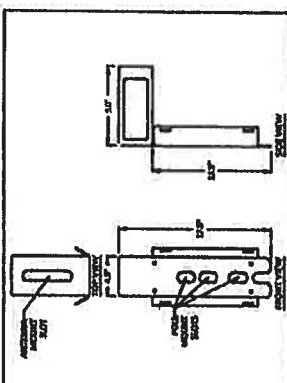
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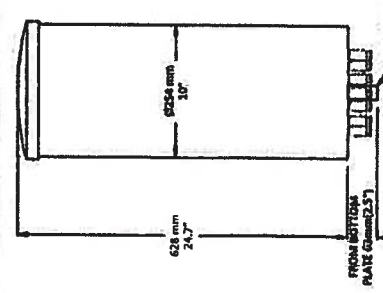
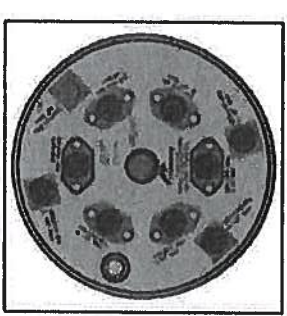
15/51

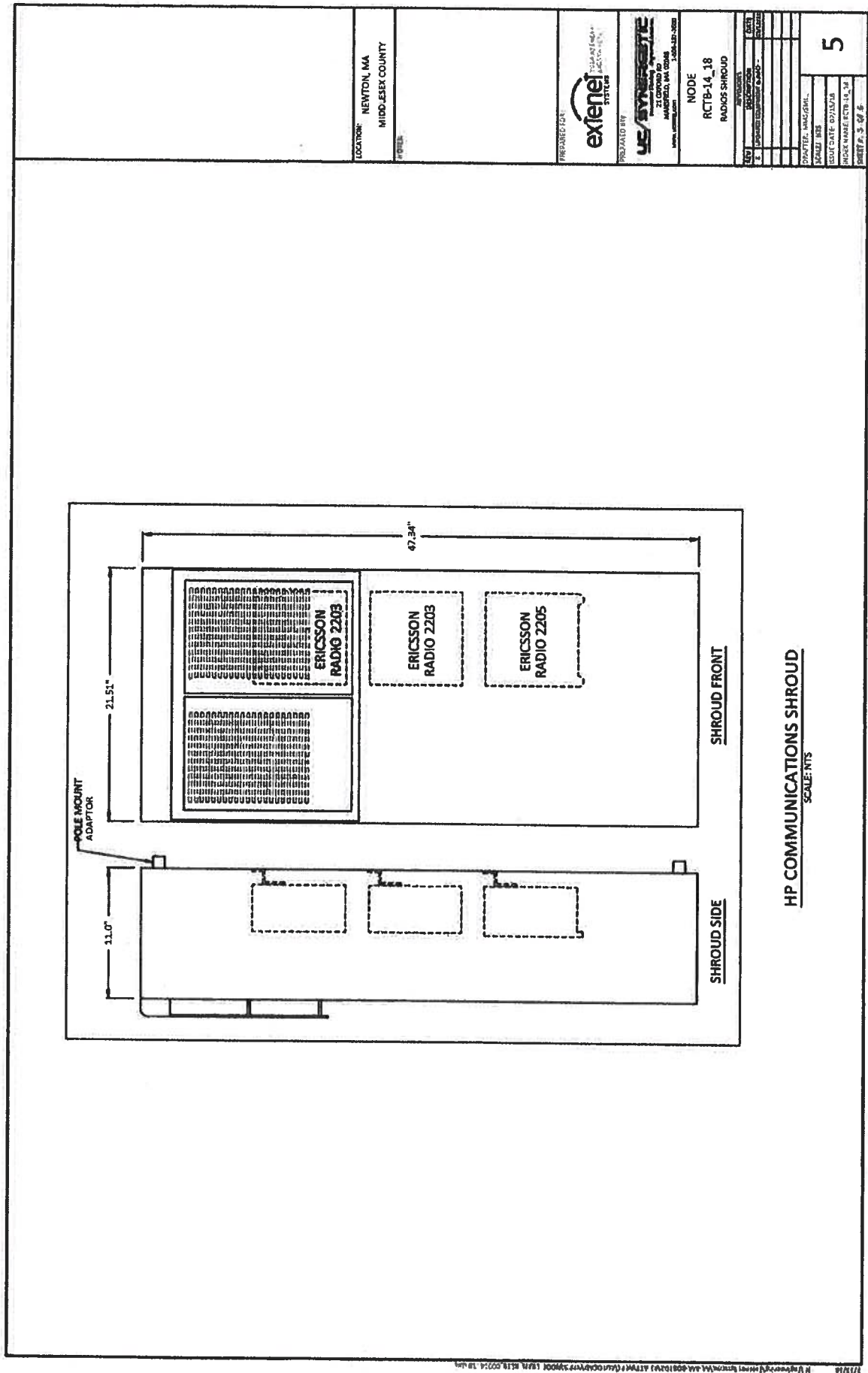
10-14 39

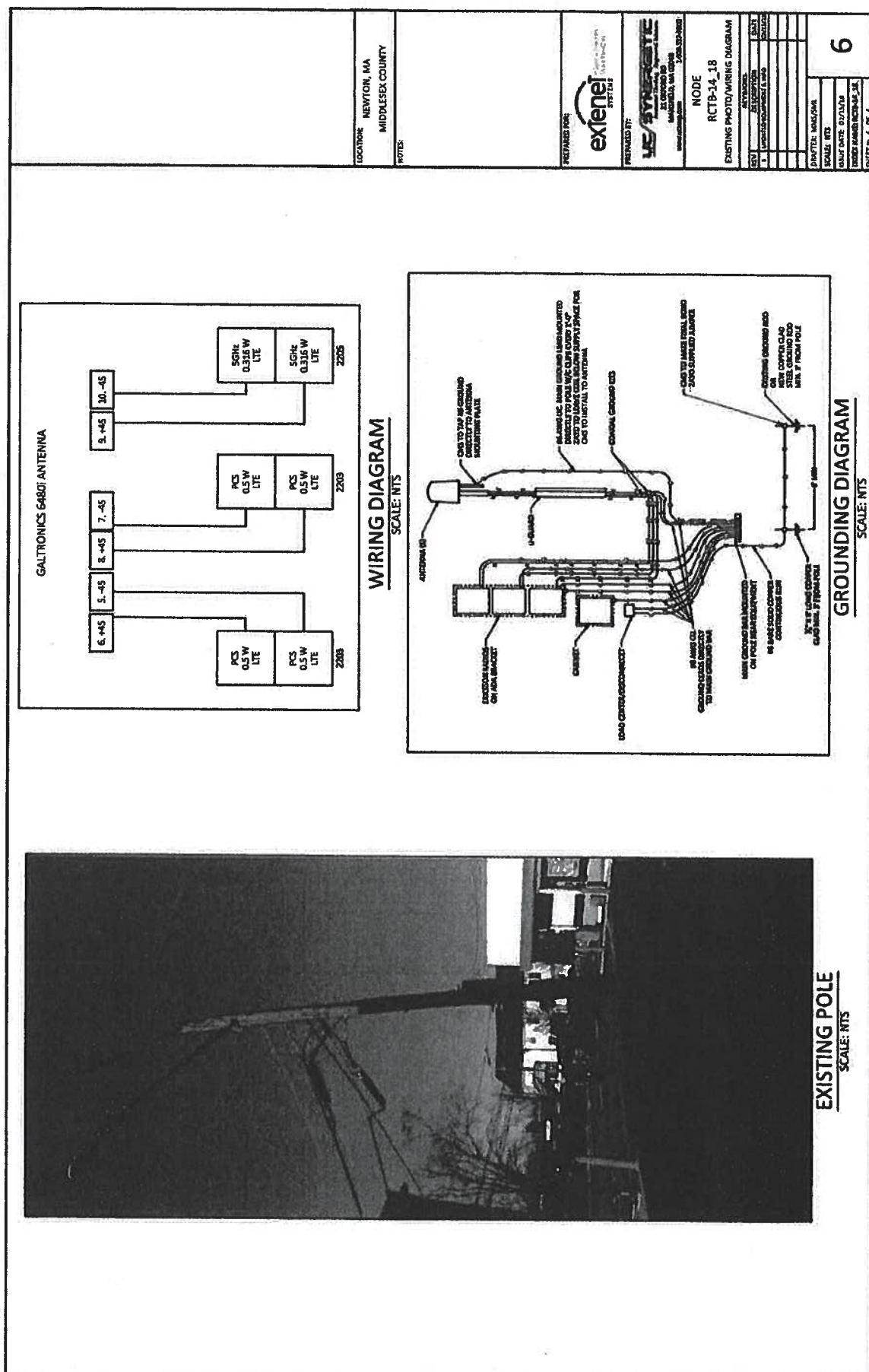
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1

<p>LOCATION: NEWTON, MA MIDDLESEX COUNTY</p> <p>NOTES:</p>	<p>PREPARED FOR: extenet SYSTEMS</p> <p>PREPARED BY: UC/ SYNERGISTE 1000 ROUTE 1 MIDDLESEX, MA 02448 TEL: 617-552-1000 FAX: 617-552-1001</p>	<p>MODE: RCTB-14_18 ANTENNA & RADIOS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>ISSUED FOR ANTENNA & RADIOS</td> <td>02/25/18</td> </tr> </table> <p>SCALE: NTS</p> <p>DATE: 02/25/18</p> <p>PROJECT: NEWTON-14_18</p> <p>SHEET # 4 OF 4</p>	REV	DESCRIPTION	DATE	1	ISSUED FOR ANTENNA & RADIOS	02/25/18
REV	DESCRIPTION	DATE						
1	ISSUED FOR ANTENNA & RADIOS	02/25/18						
<p>ERICSSON 2203 & 2205 RADIOS WITH COVER</p> <p>SCALE: NTS</p>								
								
<p>ANTENNA POLE TOP MOUNT BRACKET</p> <p>SCALE: NTS</p>								
								

<p>GALTRONICS ANTENNA SYSTEMS A HIGH PERFORMANCE COMPANY</p> <p>EXTENT™ P6480i</p> <p>10" x 3.14" Omnidirectional Pseudo Omnidirectional Antenna 1125-1150 MHz, 1550-1570 MHz, 1575-1590 MHz, 1695-2400 MHz</p> <p>Description:</p> <ul style="list-style-type: none"> • Pseudo Omnidirectional Antenna for Outdoor DAS and Small Cells • 4x ports for AWS/PCS/WCS Band 1695-2400 MHz • 4x ports for CBRS Band 3550-3700 MHz • 2x ports for 5GHz Band 5150-5950 MHz <p>1695-2400, 3550-3700 and 5150-5950 MHz Pseudo Omnidirectional Antenna</p>		
<p>GALTRONICS P6480i ANTENNA</p> <p>SCALE: NTS</p>		





EXTENET SYSTEMS, INC.

76072

REFERENCE NO.	DESCRIPTION	INVOICE DATE	INVOICE AMOUNT	DISCOUNT TAKEN	AMOUNT PAID
CK RQ 032018-15	New-ALBRD3m1-14018	3/20/2018	139.00	0.00	139.00
CHECK DATE	CHECK NO.	PAYEE		DISCOUNTS TAKEN	CHECK AMOUNT
3/21/2018	0000076072	RSOBACBA Eversource		0.00	139.00



EXTENET SYSTEMS, INC.
 3030 WARRENVILLE ROAD, STE. 340
 LITTLE ROCK, AR 72093
 PH. (501) 505-3800

COMERICA BANK
 32-75/1110



76072

DATE
 3/21/2018

AMOUNT

\$ *****139.00

One hundred thirty-nine and xx / 100 Dollars

PAY
 TO THE
 ORDER
 OF:

Eversource
 PO Box 660753
 Dallas, TX 75266-0753
 USA

AUTHORIZED SIGNATURE

⑈076072⑈ ⑆11000753⑆ 1881253056⑈

ATTACHMENT D



Declaration of Site MPE Compliance

The following sites in Table 2 have been analyzed against the attached worst-case site parameters for MPE compliance and have been determined to meet occupational and general public MPE compliance requirements. See table below.

PROJECT ID: NE-MA-ALBRD3M1_BOSTD3M1_BRAND3m1_CN

DATE: 5/4/2018

Antenna: Galtronics GQ2410-06621 Quasi-OMNI

Config: 3

Table 1

Parameter	Site-Specific Result	Compliant?
Maximum amplifier output power	27 dBm	yes
Maximum antenna gain	3.7 dBi	yes
Minimum horizontal distance from any general public structure	0 ft	yes
Minimum horizontal distance to antenna for occupational MPE requirement	0 ft	yes
Minimum vertical distance to antenna for general public MPE requirement	0 ft	yes
Minimum vertical distance to antenna for occupational MPE requirement	0 ft	yes

Table 2

Latitude	Longitude	Name	Status	Rooftop
42.35837688	-71.13056787	NE-MA-ALBRD3M1-14001	Clear	N
42.35748492	-71.15375691	NE-MA-ALBRD3M1-14004	Clear	N
42.340668	-71.14760375	NE-MA-ALBRD3M1-14007	Clear	N
42.3601377	-71.20227834	NE-MA-ALBRD3M1-14018	Clear	N
42.34414533	-71.13697584	NE-MA-ALBRD3M1-14022	Clear	N
42.34448972	-71.12487042	NE-MA-ALBRD3M1-14023	Clear	N
42.21168023	-71.01927863	NE-MA-BRAND3M1-16001	Clear	N
42.26119856	-70.97930905	NE-MA-BRAND3M1-16003	Clear	N
42.22905418	-70.97046064	NE-MA-BRAND3M1-16005	Clear	N
42.23703105	-71.00194461	NE-MA-BRAND3M1-16006	Clear	N
42.25343044	-70.99368284	NE-MA-BRAND3M1-16008	Clear	N
42.26904474	-70.9587997	NE-MA-BRAND3M1-16009	Clear	N
42.26597234	-70.95345548	NE-MA-BRAND3M1-16010	Clear	N
42.401412	-71.10412724	NE-MA-CMARD3M1-26001	Clear	N
42.39948634	-71.13712314	NE-MA-CMARD3M1-26003	Clear	N
42.39459203	-71.03269949	NE-MA-NTSHD3M1-27004	Clear	N
42.39181068	-71.02830549	NE-MA-NTSHD3M1-27005	Clear	N
42.382477	-70.993	NE-MA-NTSHD3M1-27007	Clear	N
42.412282	-71.021132	NE-MA-NTSHD3M1-27008	Clear	N
42.39689219	-71.0251827	NE-MA-NTSHD3M1-27009	Clear	N
42.39766355	-70.99188586	NE-MA-NTSHD3M1-27010	Clear	N
42.26030633	-71.09923483	NE-MA-BOSTD3M1-57003	Clear	N
42.25667367	-71.14690278	NE-MA-BOSTD3M1-57008	Clear	N





<u>Latitude</u>	<u>Longitude</u>	<u>Name</u>	<u>Status</u>	<u>Rooftop</u>
42.28497772	-71.12954588	NE-MA-BOSTD3M1-57012	Clear	N
42.26595547	-71.10835031	NE-MA-BOSTD3M1-57020	Clear	N
42.278494	-71.076745	NE-MA-BOSTD3M1-57021	Clear	N
42.30888932	-71.06917304	NE-MA-BOSTD3M1-58007	Clear	N
42.30171641	-71.06160582	NE-MA-BOSTD3M1-58013	Clear	N
42.29550472	-71.05635162	NE-MA-BOSTD3M1-58021	Clear	N



Radio Frequency Exposure Pre-Installation FCC Compliance Assessment

Site Specific Information			
Site Name	NE-MA-ALBRD3M1_CMARD3M1-ATT (Node: NE-MA-CMARD3M1-26003)	Categorically Excluded?	No
Street Address	Harrison Avenue	5% Contributor to Areas Requiring Mitigation?	No
City, State, Zip	Cambridge, MA 02140		
Multi-Licensee Facility	No	Max % MPE (Predictive) at Ground Level	0.06 % Occupational 0.30 % General Population
Structure Type	Pole	Max % MPE (Measured)	N/A
Broadcast Equipment	No	Assessment Date	May 3, 2018
# of Access Points	Unknown	Assessment Purpose	Proposed Site
Compliance Status		Mitigation Required	

<input checked="" type="checkbox"/>	Worst-case RF power density levels are BELOW the MPE for General Population/Uncontrolled Environments in accessible areas.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE the MPE for General Population/Uncontrolled Environments but BELOW the MPE for Occupational/Controlled environments.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE the MPE for Occupational/Controlled Environments but BELOW 10x the MPE for Occupational/Controlled environments.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE 10x the MPE for Occupational/Controlled environments.

Compliance Requirements						
	Guidelines	Notice	Caution	Warning	NOC Information	Barrier
Access Points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Compliance Requirements(s):

There are no barriers recommended on this site. A Yellow Notice sign is recommended to be posted at the equipment installation location. Since there are no areas exceeding either the FCC's general population or occupational thresholds, no additional signage is required.

Consultant Legal Name	Centerline Communications, LLC	Phone/Fax	(978)660-3998
Address	95 Ryan Drive, Suite 1, Raynham, MA 02767		

1 Confidential & proprietary material for authorized ExteNet Systems personnel only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement | ExteNet Systems

Contents

1. Executive Summary.....	3
2. Proposed Site Characteristics	5
a. Structure	5
b. Accessibility.....	5
c. ExteNet Systems Signage	5
d. Antenna Inventory	6
3. Analysis	7
a. Predictive Model: All Transmitters (Z=33.98)	7
b. Predictive Model: All Transmitters (Antenna Level)	8
c. Predictive Model: Significant Contribution of ExteNet Systems.....	9
4. Conclusion.....	10
a. Conclusion Narrative.....	10
b. Compliance Requirements.....	11
c. Elevation Emissions Levels & Signage/Barrier Locations.....	11
5. Appendix C: RF Consultant Certifications	12
a. Preparer Certification.....	12
b. Reviewer Certification.....	12
6. Appendix D: Reference Information	13
a. FCC Rules & Regulations	13
b. Occupational Safety and Health Administration (OSHA) Requirements	13
c. RF Signage	14
d. Barriers.....	14

1. Executive Summary

ExteNet Systems has contracted with Centerline Communications, LLC, an independent Radio Frequency consulting firm, to conduct a Radio Frequency Exposure (RFE) Compliance **Pre-Installation Assessment** of the **NE-MA-ALBRD3M1_CMARD3M1-ATT (Node: NE-MA-CMARD3M1-26003)** cell site located along Harrison Avenue in Cambridge, MA. The following report contains a detailed summary of the Radio Frequency environment as it relates to Federal Communications Commission (FCC) and Occupational Safety & Health Administration (OSHA) Rules and Regulations for all individuals.

The ExteNet Systems antenna data was provided by:

Name	Sunday Aiyash
Title	Technical Program Manager
Date	May 3, 2018
Region	Northeast

This **Pre-Installation** compliance assessment and report has been **prepared** and **reviewed** by:

	Preparer	Reviewer
Name	Scott Heffernan	Brian Frazier
Title	Director RF Engineering	Sr RF Engineer
Date	May 3, 2018	May 3, 2018

This report utilizes the following **for predictive modeling of the ambient RF environment**:

MPE Modeling Program: Roofview® 4.15

Required Modeling Assumptions: 100% Duty Cycle and Maximum Total Power Output.

Additional Modeling Assumptions:

Centerline Communications, LLC has performed theoretical modeling using RoofView® software as well as our proprietary small cell modeling software to estimate the worst-case power density at the site ground-level resulting from operation of the antennas as well as at the antenna level and at adjacent residential and business structures. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit. RoofView® is used to model areas close to the antenna at the antenna mounting level. Our proprietary small cell modeling software analyzes the site profile based upon configuration power levels and antenna characteristics to accurately model the emissions profile extending away from the antenna location in a 6 foot spatially averaged format. This software is used to model far field areas where the antenna patterns have formed and is a better representation of actual power density values in these areas

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. For AT&T, the modeling assumes a maximum 2 LTE radio with a composite transmit power level of 40 dBm (10 Watts) at 1900 MHz in 4 x 4 MIMO configuration and a maximum 1 LTE radio with a composite transmit power level of 27 dBm (0.5 Watts) at 5 GHz in 2 x 2 MIMO configuration in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by ExteNet.

For all calculations, all equipment was calculated using the following assumptions:

- **AT&T:** Two (2) 2203 Remote Radios for 1900 and one (1) 2205 Remote Radios for 5 GHz. The maximum deployed transmit power specified for these radio units is 5 Watts each for 1900 MHz and 0.5 Watts for 5 GHz.
- The antenna used in this modeling is the **Galtronics GQ2410-06621** which is a quasi-omnidirectional canister antenna.
- The calculations were performed at maximum gain on the main lobe of the antennas. The antenna mounting height for the proposed utility pole antenna installation is **35 feet** above ground level to antenna centerline.
- All calculations were done with respect to uncontrolled / general population and controlled / occupational threshold limits as specified in FCC OET65.
- There was 1.0 dB of system loss resulting from 1.0 dB of cable loss for each 1900 MHz and 5 GHz path.

2. Proposed Site Characteristics

a. Structure

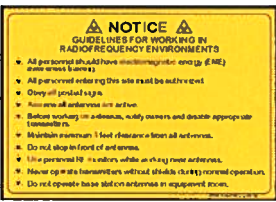





Physical Description	This project involves the installation of one (1) Galtronics GQ2410-06621 quasi-omnidirectional canister antenna on a utility pole at 35 feet above ground level. For AT&T, there will be three (3) radios installed on the utility pole. two (2) remote radio units for 1900 MHz LTE and one (1) remote radio unit for 5 GHz. The antenna will be installed on the approximate 34-foot pole at the 35-foot level (antenna centerline).
Site Latitude (NAD 83)	42.39948634 N
Site Longitude (NAD 83)	-71.1371231406 W
Site Elevation (AMSL)	5 feet
Structure Height (AGL)	~34 feet
Overall Structure Height	~36 feet

b. Accessibility

Access to this site is accomplished by approaching the pole at ground level. Workers must be elevated to antenna level in order to access them, so these antennas are not accessible to the general population.

All access points locked at time of assessment?	N/A
All access points alarmed at time of assessment?	N/A

c. ExteNet Systems Signage

Existing Signage						
	Guidelines	Notice	Caution	Warning	NOC Information	Barrier
Access Points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Existing Signage Adheres to carrier Signage & Demarcation Policy?						N/A

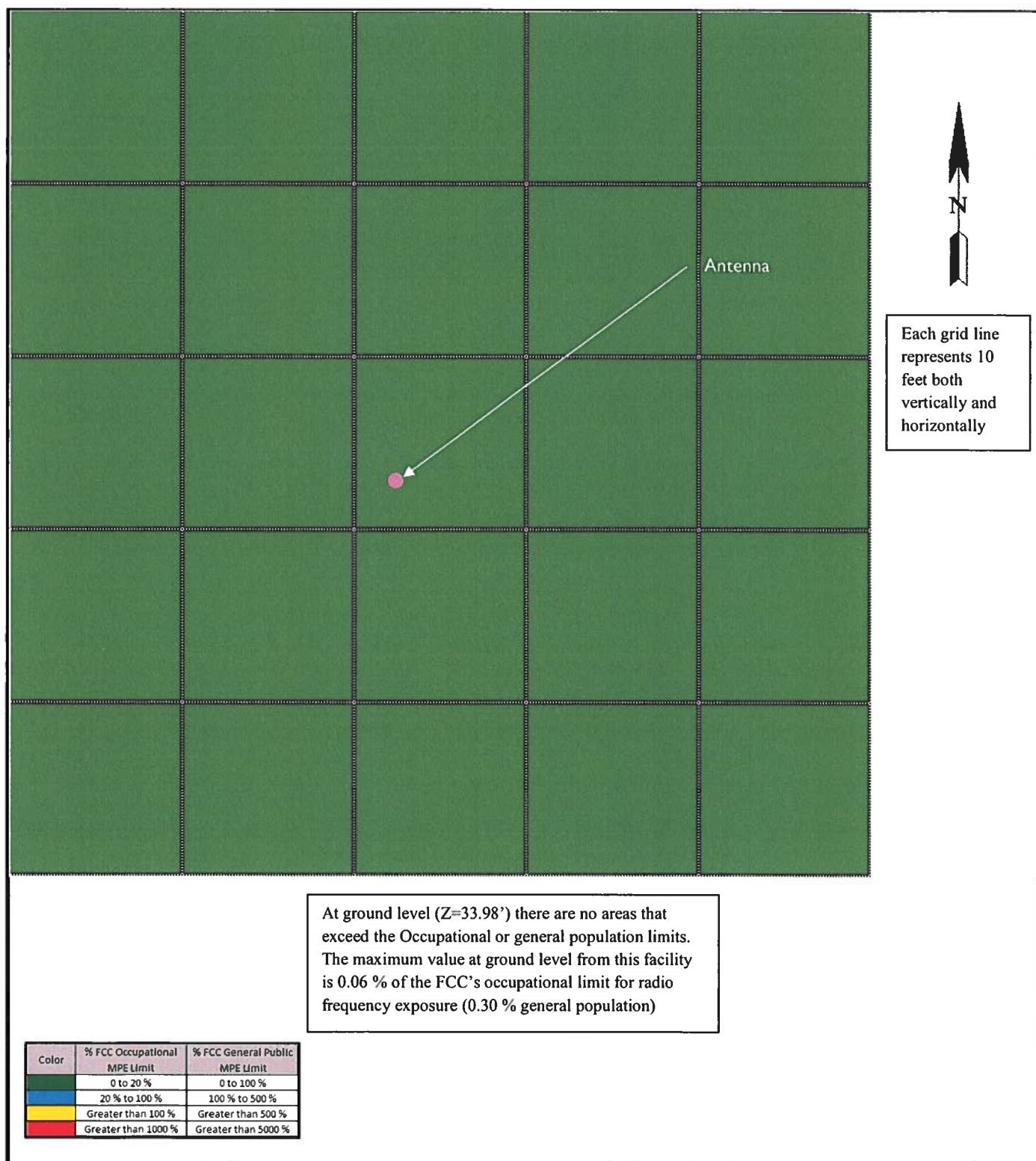
d. Antenna Inventory

Ant #	Operator	Antenna Model	Type	Frequency (MHz)	Az (deg)	Downtilt (deg.)	Horizontal Beamwidth (Degrees)	Ant (ft)	Total ERP (watts)	X	Y	Height above Nearest Walking Surface (z**)
ANT1	AT&T	Galtronics GQ2410-06621	Quasi-omnidirectional	1900 MHz & 5 GHz	0	0 degrees	Omni	2.04	38.42	50	50	33.98'

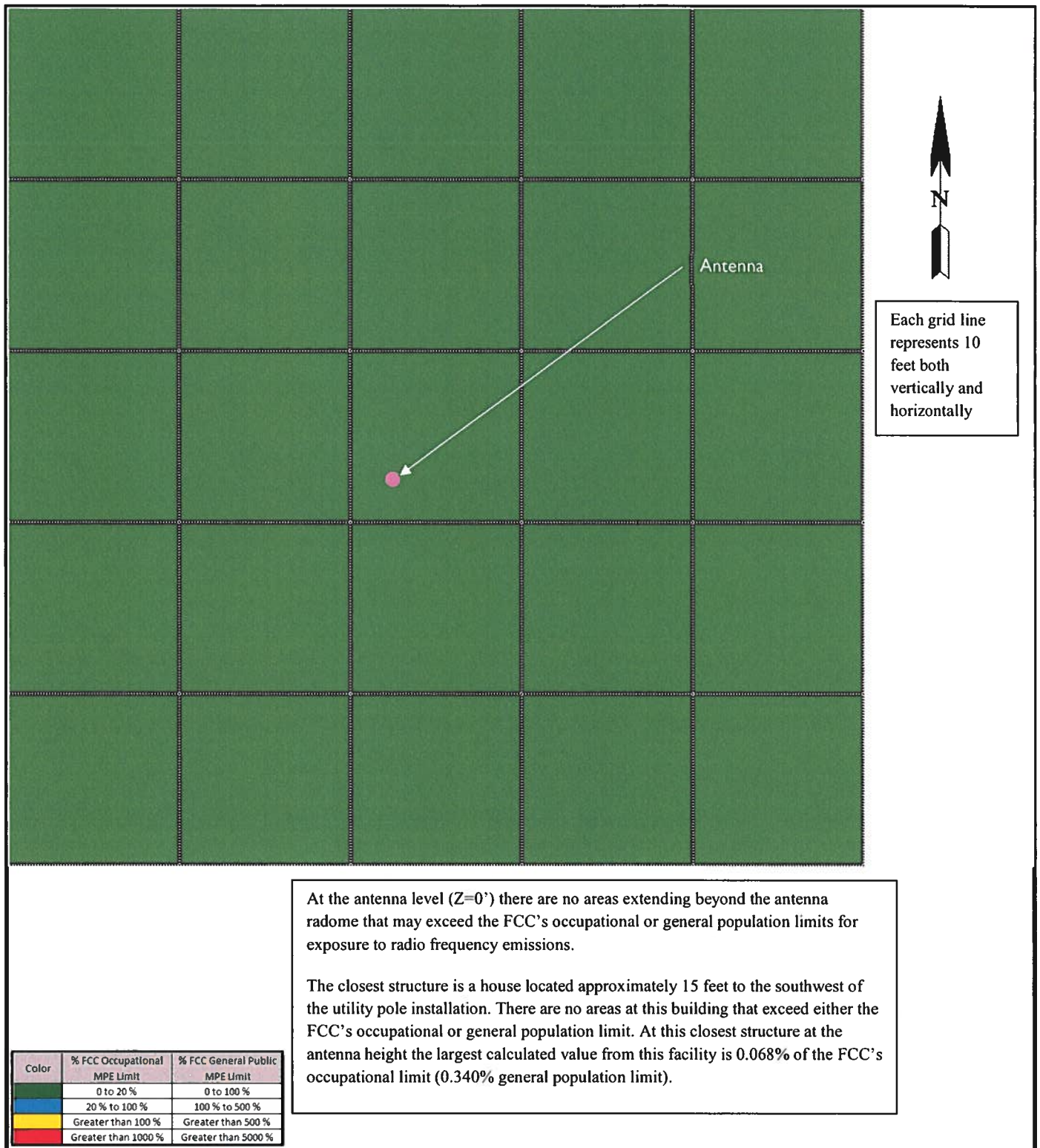
**** The Z-Value represents the distance in feet from the bottom of the antenna to the ground level**

3. Analysis

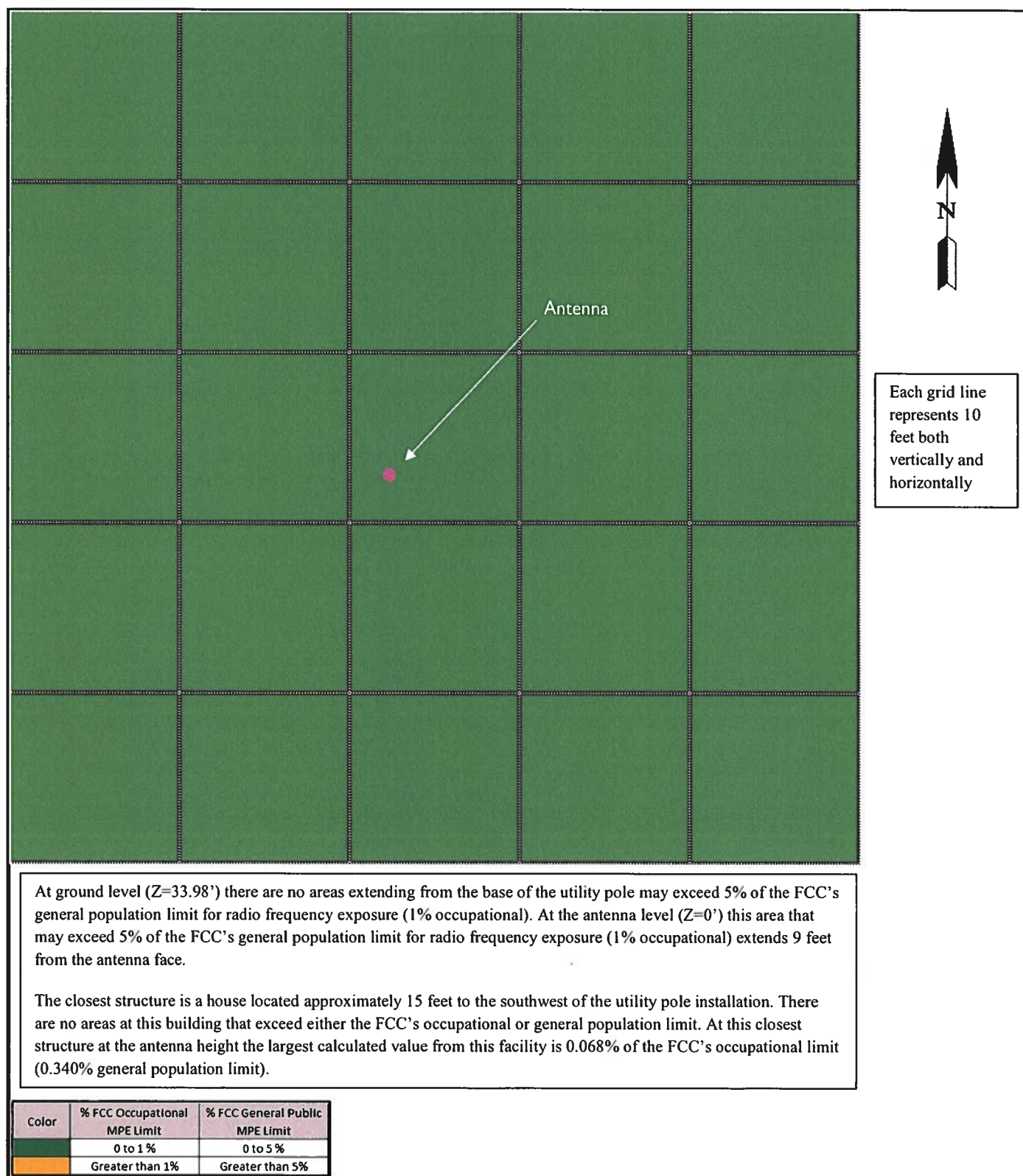
a. Predictive Model: All Transmitters (Z=33.98')



b. Predictive Model: All Transmitters (Z=0')



c. Predictive Model: Significant Contribution of ExteNet Systems



4. Conclusion

a. Conclusion Narrative

Description of MPE-Limit Exceeding Areas:

Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ExteNet's proposed antennas that exceed the FCC's occupational and/or general population exposure limits at this site. At the antenna level ($Z=0'$) there are no areas extending beyond the antenna radome that may exceed the FCC's occupational or general population limits for exposure to radio frequency emissions.

Carrier Significant Contribution Areas:

At ground level ($Z=33.98'$) there are no areas extending from the base of the utility pole may exceed 5% of the FCC's general population limit for radio frequency exposure (1% occupational). At the antenna level ($Z=0'$) this area that may exceed 5% of the FCC's general population limit for radio frequency exposure (1% occupational) extends 9 feet from the antenna face.

The closest structure is a house located approximately 15 feet to the southwest of the utility pole installation. There are no areas at this building that exceed either the FCC's occupational or general population limit. At this closest structure at the antenna height the largest calculated value from this facility is 0.068% of the FCC's occupational limit (0.340% general population limit).

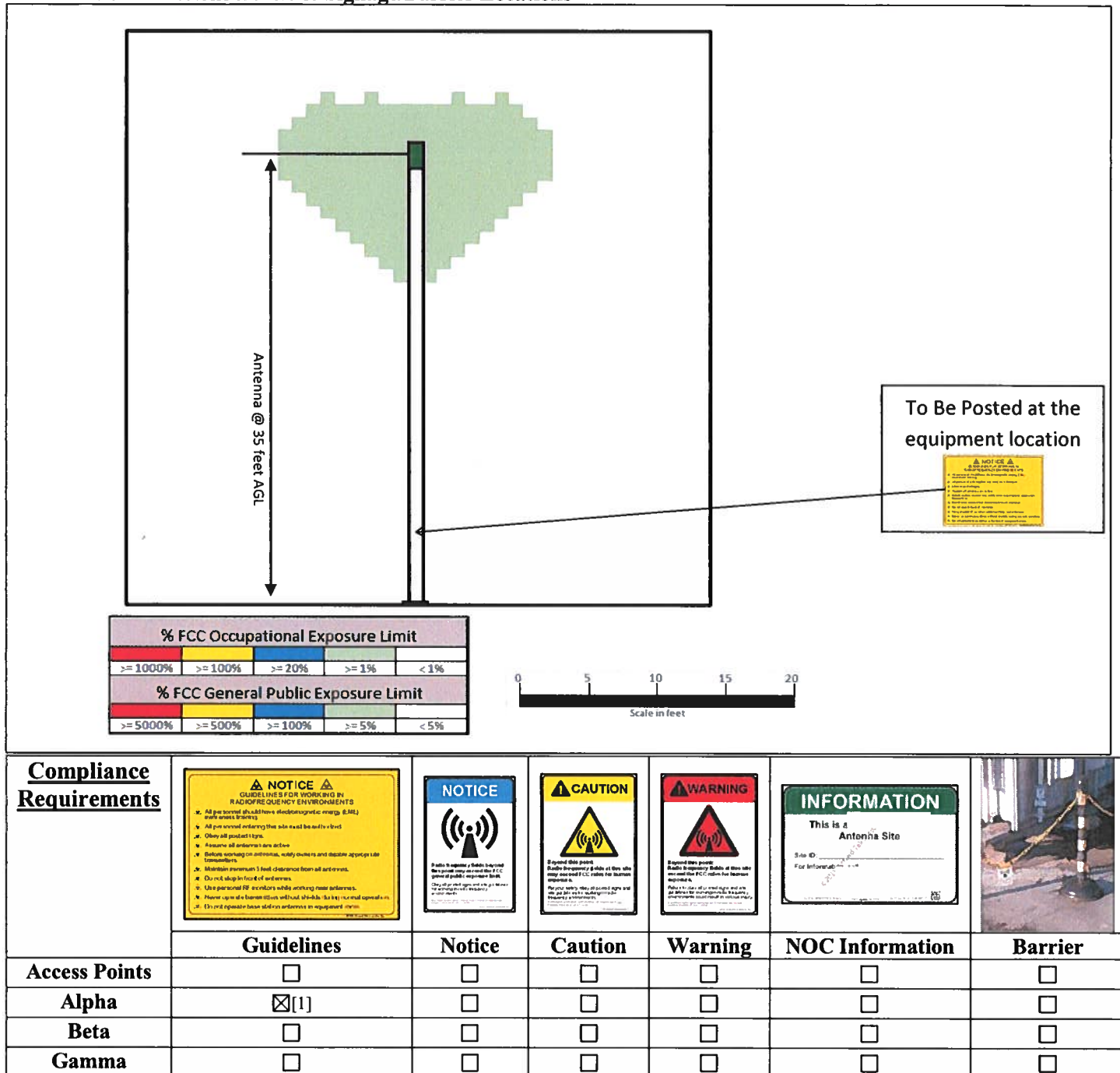
Collocator Significant Contribution Areas:

Based on review of construction drawings and aerial photographs, no collocators were identified onsite.

Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to the carrier's proposed antennas that exceed the FCC's occupational and/or general population exposure limits at this site.

b. Compliance Requirements

Elevation Emissions Levels & Signage/Barrier Locations




Signage/Barrier Installation Detail

- There are no barriers recommended on this site.
- A Yellow Notice sign is recommended to be posted at the equipment installation location

5. Appendix C: RF Consultant Certifications


a. Preparer Certification

I, Scott Heffernan, the preparer of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the ExteNet Systems Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



b. Reviewer Certification

I, Brian Frazier, the reviewer and approved of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the ExteNet Systems Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



6. Appendix D: Reference Information

a. FCC Rules & Regulations

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards “incorporate prudent margins of safety.” The following represents explanations of the most applicable information:

Two Classifications for Exposure Limits

Occupational – Applies to situations in which persons are “exposed as a consequence of their <i>employment</i> ” and are “ <i>fully aware</i> of the potential for exposure and can <i>exercise control</i> over their exposure”.	General Population – Applies to situations in which persons are “exposed as a consequence of their employment <i>may not be made fully aware</i> of the potential for exposure or <i>cannot exercise control</i> over their exposure”. Generally speaking, those without significant and documented RF Safety & Awareness training would be in the General Population classification.
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Environment Classification

Controlled – Applies to environments that are restricted or “controlled” in order to prevent access from members of the General Population classification.	Uncontrolled – Applies to environments that are unrestricted or “uncontrolled” that allow access from members of the General Population classification.
-------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------

<i>Limits for Occupational/Controlled Exposure</i>		
Frequency	Power Density	Averaging Time
Range	(S)	$ E ^2$, $ H ^2$, or S
(MHz)	(mW/cm ²)	(minutes)
300-1500	$f/300$	6
1500-100,000	5	6
<i>Limits for General Population/Uncontrolled Exposure</i>		
Frequency	Power Density	Averaging Time
Range	(S)	$ E ^2$, $ H ^2$, or S
(MHz)	(mW/cm ²)	(minutes)
300-1500	$f/1500$	30
1500-100,000	1	30
<i>f = frequency in MHz</i>		

Significant Contribution to the RF Environment

Any carrier contributing an aggregate MPE percentage of 5 or more (to the applicable RF Environment Classification) is defined as a significant contributor. This means that if any area is determined to be out of compliance with FCC rules, all significant contributors are jointly responsible for correcting any deficiencies.

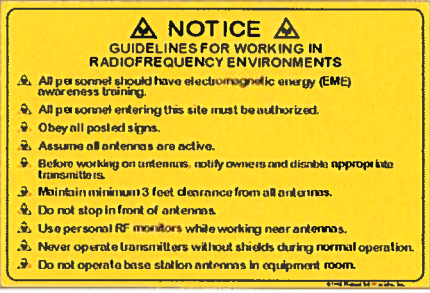



b. Occupational Safety and Health Administration (OSHA) Requirements

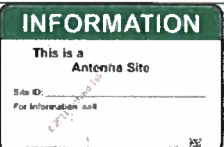
A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
<ul style="list-style-type: none"> Utilization of good equipment Enact control of hazard areas Limit exposures Employ medical surveillance and accident response 	<ul style="list-style-type: none"> Employ Lockout/Tag out Utilize personal alarms & protective clothing Prevent access to hazardous locations Develop or operate an administrative control program

c. RF Signage

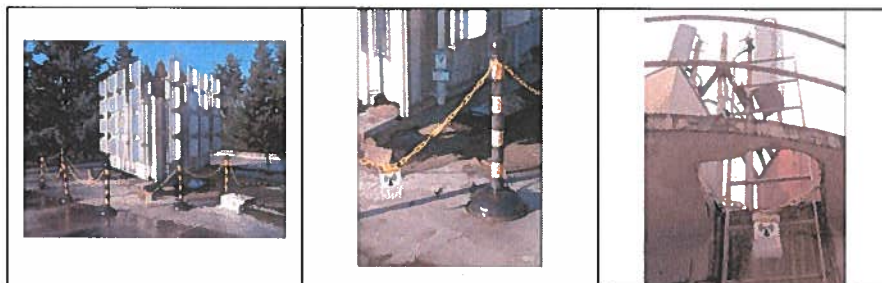
Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage **MUST** be viewable regardless of the viewer's position.

GUIDELINES	NOTICE	CAUTION	WARNING
Used anytime hazard signage is employed to achieve FCC compliance. This sign will inform visitors of the basic precautions to follow when working around radiofrequency equipment.	Used to distinguish the boundary between the General Population/Uncontrolled and the Occupational/Controlled areas. The limits associated with this notification must be less than the Occupational/Controlled MPE.	Identifies RF controlled areas where RF exposure can exceed the Occupational/Controlled MPE but below 10 x the Occupational/Controlled MPE.	Denotes the boundary of areas with RF levels substantially above the FCC limits, normally defined as those greater than ten (10) times the Occupational/Controlled MPE.
			

INFORMATION SIGN	INFORMATION
Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the ExteNet Systems Network Operations Center phone number.	

d. Barriers

A barrier is any physical demarcation employed as a preventative and/or notification measure that one is entering into an area with RF power density levels greater than the General Population/Uncontrolled limit.



ATTACHMENT E



247 Station Drive, NWBED
Westwood, Massachusetts 02090

November 29, 2018

Re: Initial Authorization for ExteNet Systems, Inc. to Attach to Eversource Energy d/b/a NSTAR poles

To Whom It May Concern:

Eversource Energy ("NSTAR") is aware that ExteNet Systems, Inc. is in the process of permitting for the installation of necessary telecommunications equipment and corresponding aerial fiber optic cable in various locations on NSTAR-owned poles in various municipalities within our service territory. As part of the process, we understand that there is a requirement for NSTAR to review these locations and provide the municipalities with confirmation of its approval in advance of ExteNet Systems, Inc. proposed attachment.

Accordingly, NSTAR hereby submits its initial authorization for ExteNet Systems, Inc. to install its equipment and corresponding aerial fiber routes to NSTAR poles in the geographic locations as depicted on the plans submitted by Extranet Systems Inc. and on file with the municipalities. The installations on NSTAR poles will be subject to the underlying terms and conditions of agreements by and between NSTAR and ExteNet Systems, Inc., as the same may be in effect from time to time.

If there is anything further that I can provide you with for your analysis, please do not hesitate to contact me at 508-441-5881.

Sincerely,

A handwritten signature in black ink that reads "Richard A. Comeau".

Richard A Comeau
Eversource Energy d/b/a NSTAR Electric
Supervisor – Rights, Permits & Public Works
247 Station Dr, NWBED
Westwood, MA 02090
Ph: (508) 441-5881

CC: Paul Kelley

ATTACHMENT F

02186 | 617.680.5464 |
kbrinn@nbcllc.com

From: Katy Hax Holmes
<kholmes@newtonma.gov>

Sent: Thursday, February 14, 2019 9:54:43 AM

To: Keenan Brinn

Subject: RE: SMALL CELL APPLICATIONS

Keenan, as proposed these additions to existing polls would not constitute an effect on historic structures. Thanks for asking. Katy

From: Keenan Brinn <kbrinn@nbcllc.com>

Sent: Wednesday, February 13, 2019 4:48 PM

To: Katy Hax Holmes <kholmes@newtonma.gov>

Subject: Re: SMALL CELL APPLICATIONS

Katy -

These three small cells are all designed to sit on top of the wooden or steel utility pole in the Public right of way. They are all cylindrical in shape and about 24" tall and 10" in diameter. I sent the plans





CITY OF NEWTON MASSACHUSETTS

APPLICATION FORM

This Application Form is to be used for the permitting of (1) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does not have any pre-existing Wireless Communication Facility attachments; (2) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does have pre-existing Wireless Communication Facility attachments, but does not satisfy the requirements under 47 U.S.C. §1455 and related Federal Communications Commission ("FCC") regulations; and (3) new pole construction in a public way primarily for purposes of providing Wireless Communication Services. Refer to City Council Wireless Grant of Location Standards & Procedures.

Filing of Application & Fee:

Please provide to the City Clerk in paper format an original and two (2) copies of your application and 10 copies of all attachments and plans. Also provide a complete application and attachments in PDF format or in a digital format compatible with the City's systems. **The application must be complete per the attached check list in order to be filed with the City Clerk.**

A filing fee of \$750 per location must accompany the application at the time of filing.

Applicant Contact Information:

Name: ExteNet Systems, Inc.

Phone: 617-680-5464

Address: 100 Apollo Dr., Chelmsford, MA

Email Address: kbrinn@nbcllc.com

Owner(s) of the Utility Pole:

Name: Eversource

Phone: 617-690-5464

Address: One NStar Way, Westwood, MA

Email Address: steve.kelly@eversource.com

Owner of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes in whose name a Grant of Location order would be issued:

Name: ExteNet Systems, Inc.

Phone: 617-680-5464

Address: 3030 Warrenville Rd., Lisle, IL

Email Address: kbrinn@nbcllc.com

If different than the Owner, the User of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes:

Name: _____ Phone: _____

Address: _____ Email Address: _____

If in residential area, is the location directly in front of a residence? ☐ Yes ☐ No

If yes, what is the distance between the proposed pole location and residence that it would front?

35 feet

If the location is within a Historic District, please identify the historic district and state whether the applicant has filed for a Certificate from the Historic District Commission and if so, the date of that filing:

The Historic Preservation Officer has Certified that there is no adverse effect.

Pole #: _____

Description of Proposed Wireless Communications Facilities

Narrative description of the proposed wireless communications facilities.

The Applicant is seeking permission to build a small cell wireless facility at 262 Beacon St. utilizing an existing utility pole within the public ROW. This installation will include an antenna, radio equipment, an electric meter and cabling for fiber and power. The applicant has an approved application with the local utility company that controls the pole and a Letter of Authorization is included here. This facility will assist in enhancing wireless coverage in the area by providing voice and data upgrades.

If an applicant proposes adding to the number of Wireless Communications Facilities or expanding the dimensions of the proposed wireless communications facilities (except with regard to replacement of existing wireless communications equipment with comparable equipment), the applicant must apply for a new wireless grant of location for the additional wireless communications equipment.

Compliance Issues

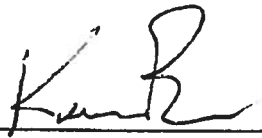
Identify any requirement or condition in the Standards with which the Applicant will not or cannot comply with and provide a complete explanation why it cannot or will not comply:

The Applicant is not aware of any requirement or condition with which it cannot comply. In the event there is additional information requested the Applicant will make all efforts to deliver and satisfy such requests.

Is the applicant requesting an exception to any standard under Section III.L.? If so, please specify the standard and provide factual support for the requested exception:

The Applicant is requesting no such exceptions at this time unless additional request are made by the City Departments.

Signature of Applicant: _____



Name and Title and any Business Name: Keenan Brinn - NB+C - Site Acquisition Consultant

Name of Principal or Client of Applicant: Extenet Systems, Inc.

Date Signed: 2-26-19

TABLE OF CONTENTS

ATTACHMENT A - SITE PLAN

ATTACHMENT B - PHOTO SIMULATIONS

ATTACHMENT C - EVERSOURCE UTILITY LICENSE

ATTACHMENT D - RF EMISSIONS STUDY

ATTACHMENT E - EVERSOURCE LETTER OF AUTHORIZATION

ATTACHMENT F - HISTORIC PRESERVATION CERTIFICATION

ATTACHMENT A



P.E. STAMP AREA:



AREA MAP

SCALE: 1" = 60'

LATITUDE: 42.333131° LONGITUDE: -71.169808°

ELEVATION: 186.96' AGL

NODE RCTB-14_09 NE-MA-ALBRD3M1-14009

262 BEACON ST

NEWTON, MA 02467

(SOUTH SIDE OF BEACON ST)

LEASE EXHIBIT NOT FOR CONSTRUCTION

PROJECT INFORMATION

INDEX:

1	COVER PAGE
2	NODE PROFILE

POLE OWNER: EVERSOURCE 30%
VERSION: 50%

CONTACT: NICK ANGELO
3030 WARREN RD
SUITE 340
NEWTON, MA 02459
NOC: (617) 392-5127

LOCATION: NEWTON, MA
MIDDLESEX COUNTY

NOTES:

THESE PLANS REPRESENT A PORTION OF A PROPOSED SMALL CELL BUILD INVOLVING THE INSTALLMENT OF AN ANTENNA AND RADIO EQUIPMENT ON AN EXISTING WOODEN UTILITY OR REPLACEMENT METAL STREETLIGHT POLES.

PREPARED FOR:



PREPARED BY:



MANCHESTER, MA 02898

508-277-7600

www.ucsynergistic.com

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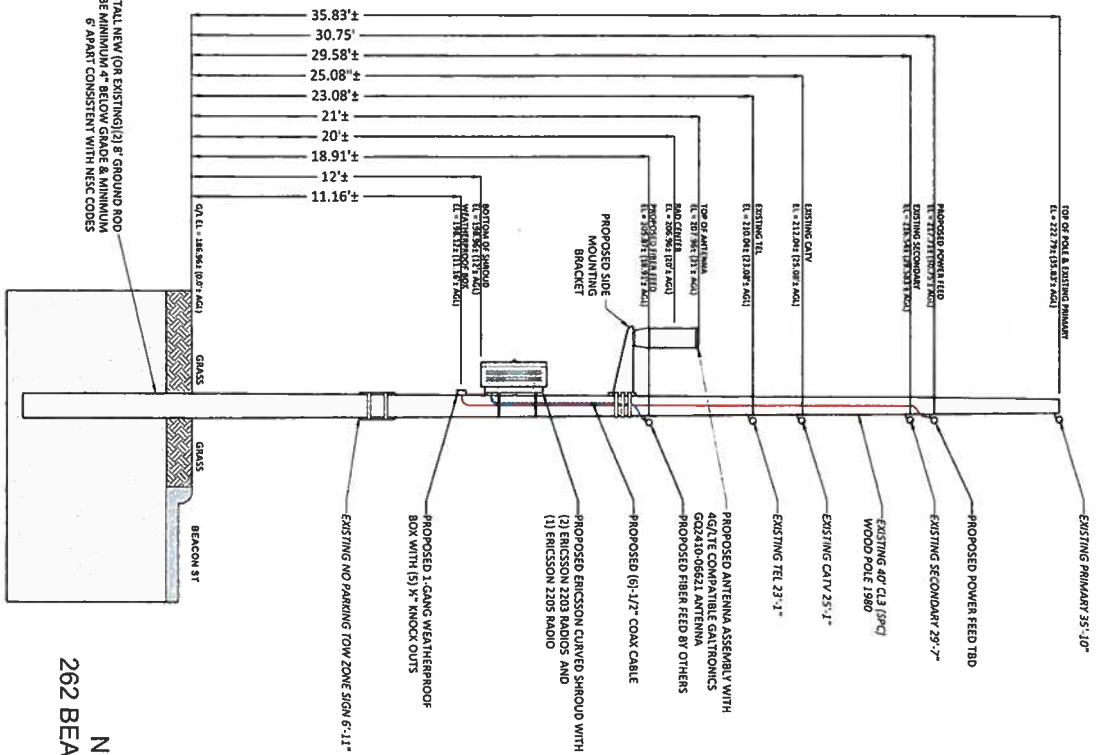
DATE:

DATE:

DATE:

DATE:

SHEET # 1 OF 2



ELEVATION
SCALE: 1" = 4'

NODE RCTB-14_09
262 BEACON ST, NEWTON, MA
SIDE PROFILE

EXISTING WOODEN P. 3/16
40' CLASS 3 (SFC) 1980
TO BE USED



<p>PREPARED FOR:</p> <p>extenet YOUR NETWORK SYSTEMS</p> <p>UC/SYNERGETIC 21 OXFORD RD MASSACHUSETTS 02458 1-800-337-7600</p>		<p>PROJECT:</p> <p>NODE RCTB-14_09 SIDE PROFILE</p>
<p>DATE:</p> <p>DESCRIPTION:</p>	<p>REVISIONS:</p> <p>DATE:</p>	<p>DRAWN BY:</p> <p>SCALE: SEE SCALE BAR</p> <p>ISSUE DATE: 1/22/19</p> <p>INDEX NAME: RCTB-14_09</p> <p>SHEET #: 2 OF 2</p>

ATTACHMENT B



Site Name: NE-MA-ALBRD3M1
14009
Wireless Communication Facility
262 Beacon Street
Newton, MA 02467

Photograph Information:
Beacon Street
Showing the Existing Site



Site Name: NE-MA-ALBRD3M1
14009
Wireless Communication Facility
262 Beacon Street
Newton, MA 02457

Photograph Information:
Beacon Street
Showing the Proposed Site

ATTACHMENT C

Form 1

APPLICATION AND POLE ATTACHMENT LICENSELicensee: Extenet SystemsStreet Address: 3030 WARRENVILLE ROADCity, State and Zip: Lisle, IL 60532Date: 3/27/2018

In accordance with the terms and conditions of the Pole Attachment Agreement, application is hereby made for a license to make 1 attachments to poles and N/A Power Supply(ies) and N/A other attachments located in the municipality of Newton in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** NEW-ALBRD3M1-14009. Attached are my power supply specifications if applicable.
The cable's strand size is 1/4 in. and weight per foot of cable is .17 lb/ft.

Licensee's Name (Print) Extenet SystemsSignature: Lili Mendonca

Eversource
Power Company

Title: Lili Mendonca (Agent)Tel. No. 978-995-7101Fax No. (603) 598-0097E-mail: util-mgt-group@waveguidefiber.com

*****For licensor use, do not write below this line*****

Pole Attachment License Application Number NEW-ALBRD3M1-14009 is hereby granted to make the attachments described in this application to attachments to JO₁ poles, attachments to FO₂ poles, attachments to JU₃ poles, Power Supplies and other attachments located in the municipality Newton, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Steve OwensSignature: Title: Supervisor, Rights, & Public WorksDate: 7/12/18Tel. No. 508-441-5881

1752
(AGREEMENT ID #)

The Licensee shall submit an original copy of this application to Verizon New England Inc. and the appropriate Power Company.
Revised 10/15/03

CX# 76076

Form 2

AUTHORIZATION FOR FIELD SURVEY WORKLicensee: Extenet Systems

In accordance with Article III & Appendix I of the Pole Attachment Agreement, following is a summary of the charges which will apply to complete a field survey covering Pole Attachment License Application Number NEW-ALBRD3M1-14009 in the municipality of Newton in the State of Massachusetts.

FIELD SURVEY CHARGES

<u>Field Survey</u>	<u>#Poles</u>	<u>Unit Rate</u>	<u>Total</u>
Field Survey Application Fee (Covers 1 pole)			<u>\$139.00</u>
Field Survey 2-200 Poles	<u>0</u>	<u>\$13.45</u> per Pole	<u>\$0.00</u>
Additional Travel Time*	<u>0</u>	<u>\$220.50</u> per Day	<u>\$0.00</u>
TOTAL Charges			<u>\$139.00</u>

* Based on average of 75 poles surveyed per day, add \$220.50 travel time for each additional day required to complete survey.

Please note, if you calculated the cost incorrectly, your check will be returned and a new check for the correct amount must be received by this office in order to schedule the survey. If you need assistance, please call the **HOTLINE on (800) 641-2299**.

The required field survey covering Pole Attachment License Application # NEW-ALBRD3M1-14009 is authorized. I am enclosing an advance payment in the amount of \$139.00.

Licensee's Name (Print) Extenet SystemsSignature: Lili MendoncaTitle: Lili Mendonca (Agent)Tel. No. 978-995-7101Fax No. (603) 598-0097E-mail: util-mgt-group@waveguidefiber.com

EVERSOURCE**FNIF****Work Order Application - NEW-ALBRD3M1-14009****Customer Request In-Service Date:** ASAP **WO Received Date:** _____**Service Address:** Street: Utility Pole # 31/16 - 262 Beacon St. Newton, MA

See attached NEW-ALBRD3M1-14009 Node profile.

Customer Of Record:**Customer Responsible for Payment of Monthly Electric Bills**Name to appear on Monthly Bill: ExteNet Systems Inc.

DBA - C/O Name: _____

Billing Address: 3030 Warrenville Rd, Suite 340, Lisle, IL 60532Telephone: 630-535-3800Tax ID Number: 22-3876065

Existing Account or Meter Number (if applicable): _____

Property Owner Name (if different from above): _____

Owner Address: _____

Owner Phone Number: _____

Party Responsible for Construction costs associated with work order (if different from above)

Name: _____

Address: _____

Phone Number: _____

Please Note that Articles of Incorporation are required for new commercial Eversource Customers**Type of Service Requested: (Circle Appropriate)**

New Service XXX

Service Upgrade

Service Relocation

Temporary Service

Pole Relocation

Disconnect/Reconnect

Service Removal

Metering Only

OH Service from Pole, Pole#: 31/16

UG Service from: Riser-Pole #: _____

Padmount #: _____

Customer Loading

Type of Load	New Connected Load in KVA	
	Single Phase	Three Phase
Lighting		
Electric heat		
Air Conditioning		
Refrigeration		
Cooking		
Electric Dryer		
Water Heater		
Computer		
Process Equip.		
Motors/Elevators		
Miscellaneous	<3.6 KVA	
Totals	<3.6 KVA	

Brief Description of Work

Install new Antenna and power supply cabinet for Extenet Systems Inc. Needs permanent connection by aerial HTap

Single Phase

120/240 Amps

20 Amps

Number of Meters Required:

Residential: _____

Commercial: 1

Public: _____

Main Switch Voltage: 120/240Amperage: 20Phase: 1

Service Voltage: _____

Amperage: _____

Phase: _____

Facility Type (ie: school, hospital): _____

New Building Square Feet: _____

Additional Equipment:

Generator: KW: _____ Phase: _____ Purpose: _____

Motor(S) : Total # : _____ Largest HP: _____ Phase: _____ Locked Rotor AMP: _____

Type of Starting Compensation (choose one): Hard Soft Capacitor VFD

*See Article 802 of NSTAR Information and Requirements Book for Maximum LR current and Three Phase Protection *

Contact Name (circle appropriate):Customer/Contractor/Consultant: Lili Mendonca – Waveguide Inc.Street Address: 10 N. Southwood DriveCity, State, Zip: Nashua, NH 03063Telephone: 978-995-7101Best Time to Call: Anytime

Pager: _____

Email: lmendonca@waveguidefiber.comCell: 978-995-7101Electrician: Dave McMullen

License Number: _____

Business Name: Newport ElectricStreet Address: 200 High Point Ave, B5.City, State, Zip: Portsmouth, RI 02871Telephone: 401-293-0527

Best Time to Call: _____

Pager: _____

Fax: _____

Cell: 617-908-4193

Please note that by Interconnecting with Eversource's Distribution System the Customer of Record acknowledges that they have reviewed and are in compliance with the NSTAR Information & Requirements for Electric Service (Blue Book).

Any questions with regards to your electric service can be answered by calling 888-NEEDPWR

You may Fax, email or mail any additional correspondence to:

Eversource Energy
1 NSTAR Way
Westwood, MA, 02090
Tel: (888) 633-3797
Fax: (781) 441-8721
MANewService@eversource.com

FOR EVERSOURCE USE ONLY

Eversource Revenue Allowance: _____

Eversource Rate: _____

KVA or KW rating of Existing Loads (if applicable):

Existing Winter Peak Demand: _____

Month/Date/Year: _____

Existing Summer Peak Demand: _____

Month/Date/Year: _____

Revised 03-15-06

ATTACHMENT D



Declaration of Site MPE Compliance

The following sites in Table 2 have been analyzed against the attached worst-case site parameters for MPE compliance and have been determined to meet occupational and general public MPE compliance requirements. See table below.

PROJECT ID: NE-MA-ALBRD3M1_BOSTD3M1_BRAND3m1_CN

DATE: 5/4/2018

Antenna: Galtronics GQ2410-06621 Quasi-OMNI

Config: 1

Table 1

Parameter	Site-Specific Result	Compliant?
Maximum amplifier output power	27 dBm	yes
Maximum antenna gain	3.7 dBi	yes
Minimum horizontal distance from any general public structure	0 ft	yes
Minimum horizontal distance to antenna for occupational MPE requirement	0 ft	yes
Minimum vertical distance to antenna for general public MPE requirement	0 ft	yes
Minimum vertical distance to antenna for occupational MPE requirement	0 ft	yes

Table 2

Latitude	Longitude	Name	Status	Rooftop
42.33313169	-71.16980894	NE-MA-ALBRD3M1-14009	Clear	N
42.35859189	-71.14594504	NE-MA-ALBRD3M1-14012	Clear	N
42.37108327	-71.18465218	NE-MA-ALBRD3M1-14021	Clear	N
42.40349548	-70.99447572	NE-MA-NTSHD3M1-27003	Clear	N
42.272999	-71.110832	NE-MA-BOSTD3M1-57005	Clear	N
42.30606228	-71.11599653	NE-MA-BOSTD3M1-57017	Clear	N



Radio Frequency Exposure Pre-Installation FCC Compliance Assessment

Site Specific Information			
Site Name	NE-MA-ALBRD3M1_CMARD3M1-ATT (Node: NE-MA-ALBRD3M1-14009)	Categorically Excluded?	No
Street Address	Beacon Street	5% Contributor to Areas Requiring Mitigation?	No
City, State, Zip	Chestnut Hill, MA 02467		
Multi-Licensee Facility	No	Max % MPE (Predictive) at Ground Level	0.16 % Occupational 0.80 % General Population
Structure Type	Pole	Max % MPE (Measured)	N/A
Broadcast Equipment	No	Assessment Date	May 3, 2018
# of Access Points	Unknown	Assessment Purpose	Proposed Site
Compliance Status		Mitigation Required	

<input checked="" type="checkbox"/>	Worst-case RF power density levels are BELOW the MPE for General Population/Uncontrolled Environments in accessible areas.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE the MPE for General Population/Uncontrolled Environments but BELOW the MPE for Occupational/Controlled environments.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE the MPE for Occupational/Controlled Environments but BELOW 10x the MPE for Occupational/Controlled environments.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE 10x the MPE for Occupational/Controlled environments.

Compliance Requirements	     					
	Guidelines	Notice	Caution	Warning	NOC Information	Barrier
Access Points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Compliance Requirements(s):

There are no barriers recommended on this site. A Yellow Notice sign is recommended to be posted at the equipment installation location. Since there are no areas exceeding either the FCC's general population or occupational thresholds, no additional signage is required.

Consultant Legal Name	Centerline Communications, LLC	Phone/Fax	(978)660-3998
Address	95 Ryan Drive, Suite 1, Raynham, MA 02767		

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Contents

1. Executive Summary.....	3
2. Proposed Site Characteristics	5
a. Structure	5
b. Accessibility	5
c. ExteNet Systems Signage	5
d. Antenna Inventory	6
3. Analysis	7
a. Predictive Model: All Transmitters (Z=18.98)	7
b. Predictive Model: All Transmitters (Antenna Level)	8
c. Predictive Model: Significant Contribution of ExteNet Systems.....	9
4. Conclusion	10
a. Conclusion Narrative.....	10
b. Compliance Requirements.....	11
c. Elevation Emissions Levels & Signage/Barrier Locations	11
5. Appendix C: RF Consultant Certifications	12
a. Preparer Certification.....	12
b. Reviewer Certification.....	12
6. Appendix D: Reference Information	13
a. FCC Rules & Regulations	13
b. Occupational Safety and Health Administration (OSHA) Requirements	13
c. RF Signage	14
d. Barriers.....	14

1. Executive Summary

ExteNet Systems has contracted with Centerline Communications, LLC, an independent Radio Frequency consulting firm, to conduct a Radio Frequency Exposure (RFE) Compliance **Pre-Installation Assessment** of the **NE-MA-ALBRD3M1_CMARD3M1-ATT (Node: NE-MA-ALBRD3M1-14009)** cell site located along Beacon Street in Chestnut Hill, MA. The following report contains a detailed summary of the Radio Frequency environment as it relates to Federal Communications Commission (FCC) and Occupational Safety & Health Administration (OSHA) Rules and Regulations for all individuals.

The ExteNet Systems antenna data was provided by:

Name	Sunday Aiyash
Title	Technical Program Manager
Date	May 3, 2018
Region	Northeast

This **Pre-Installation** compliance assessment and report has been **prepared** and **reviewed** by:

	Preparer	Reviewer
Name	Scott Heffernan	Brian Frazier
Title	Director RF Engineering	Sr RF Engineer
Date	May 3, 2018	May 3, 2018

This report utilizes the following **for predictive modeling of the ambient RF environment**:

MPE Modeling Program: Roofview® 4.15

Required Modeling Assumptions: 100% Duty Cycle and Maximum Total Power Output.

Additional Modeling Assumptions:

Centerline Communications, LLC has performed theoretical modeling using RoofView® software as well as our proprietary small cell modeling software to estimate the worst-case power density at the site ground-level resulting from operation of the antennas as well as at the antenna level and at adjacent residential and business structures. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit. RoofView® is used to model areas close to the antenna at the antenna mounting level. Our proprietary small cell modeling software analyzes the site profile based upon configuration power levels and antenna characteristics to accurately model the emissions profile extending away from the antenna location in a 6 foot spatially averaged format. This software is used to model far field areas where the antenna patterns have formed and is a better representation of actual power density values in these areas

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. For **AT&T**, the modeling assumes a maximum 2 LTE radio with a composite transmit power level of 40 dBm (10 Watts) at 1900 MHz in 4 x 4 MIMO configuration and a maximum 1 LTE radio with a composite transmit power level of 27 dBm (0.5 Watts) at 5 GHz in 2 x 2 MIMO configuration in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by ExteNet.

For all calculations, all equipment was calculated using the following assumptions:

- **AT&T:** Two (2) 2203 Remote Radios for 1900 and one (1) 2205 Remote Radios for 5 GHz. The maximum deployed transmit power specified for these radio units is 5 Watts each for 1900 MHz and 0.5 Watts for 5 GHz.
- The antenna used in this modeling is the **Galtronics GQ2410-06621** which is a quasi-omnidirectional canister antenna.
- The calculations were performed at maximum gain on the main lobe of the antennas. The antenna mounting height for the proposed utility pole antenna installation is **20 feet** above ground level to antenna centerline.
- All calculations were done with respect to uncontrolled / general population and controlled / occupational threshold limits as specified in FCC OET65.
- There was 1.0 dB of system loss resulting from 1.0 dB of cable loss for each 1900 MHz and 5 GHz path.

2. Proposed Site Characteristics

a. Structure





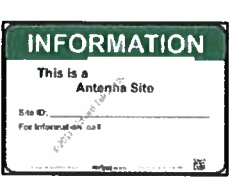

Physical Description	This project involves the installation of one (1) Galtronics GQ2410-06621 quasi-omnidirectional canister antenna on a utility pole at 20 feet above ground level. For AT&T, there will be three (3) radios installed on the utility pole. two (2) remote radio units for 1900 MHz LTE and one (1) remote radio unit for 5 GHz. The antenna will be installed on the approximate 19-foot pole at the 20-foot level (antenna centerline).
Site Latitude (NAD 83)	42.3331316871 N
Site Longitude (NAD 83)	-71.1698089374 W
Site Elevation (AMSL)	180 feet
Structure Height (AGL)	~19 feet
Overall Structure Height	~21 feet

b. Accessibility

Access to this site is accomplished by approaching the pole at ground level. Workers must be elevated to antenna level in order to access them, so these antennas are not accessible to the general population.

All access points locked at time of assessment?	N/A
All access points alarmed at time of assessment?	N/A

c. ExteNet Systems Signage

Existing Signage						
	Guidelines	Notice	Caution	Warning	NOC Information	Barrier
Access Points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Existing Signage Adheres to carrier Signage & Demarcation Policy?						N/A

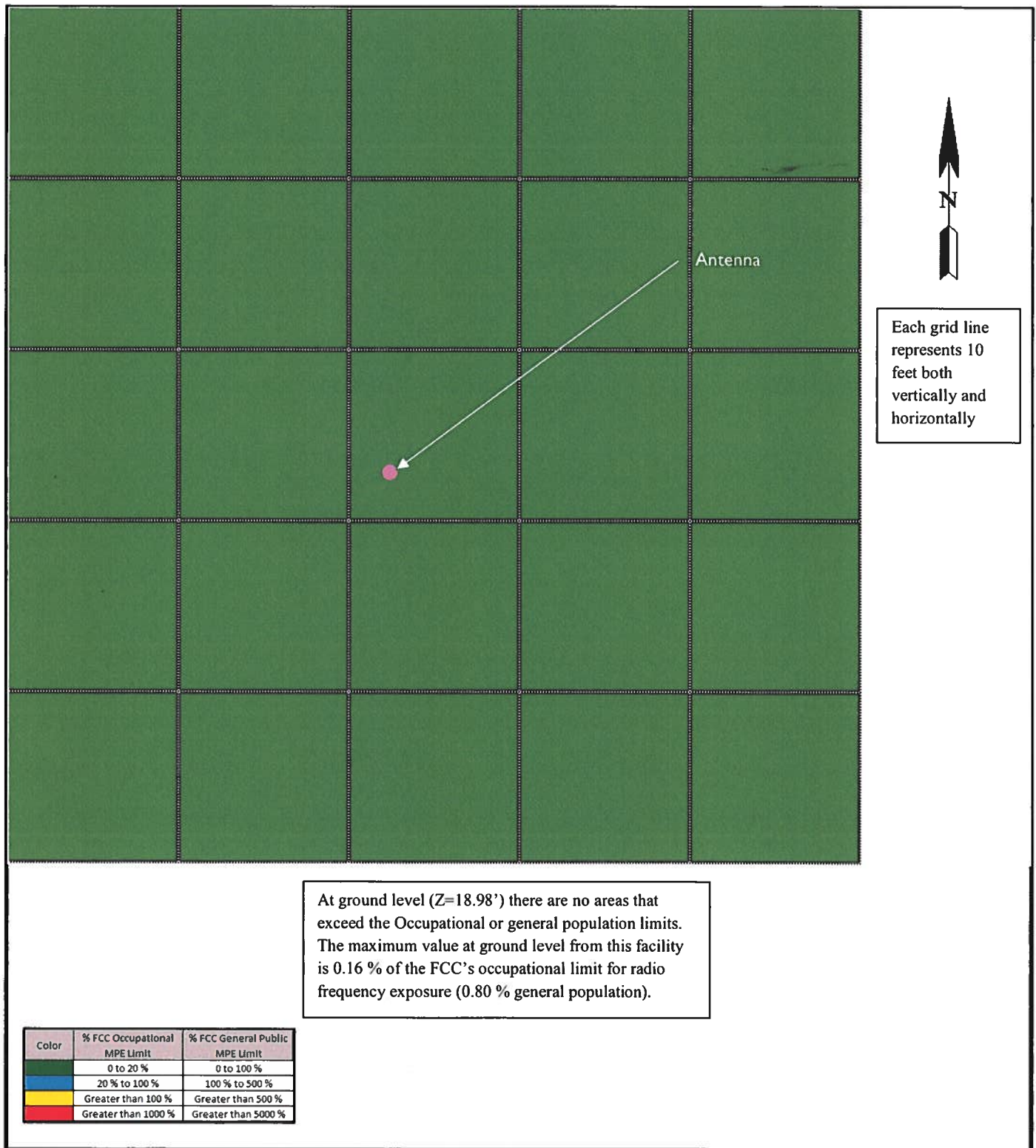
d. Antenna Inventory

Ant #	Operator	Antenna Model	Type	Frequency (MHz)	Az (deg)	Downtilt (deg.)	Horizontal Beamwidth (Degrees)	Ant (ft)	Total ERP (watts)	X	Y	Height above Nearest Walking Surface (z**)
ANT1	AT&T	Galtronics GQ2410-06621	Quasi- omnidirectional	1900 MHz & 5 GHz	0	0 degrees	Omni	2.04	38.42	50	50	18.98'

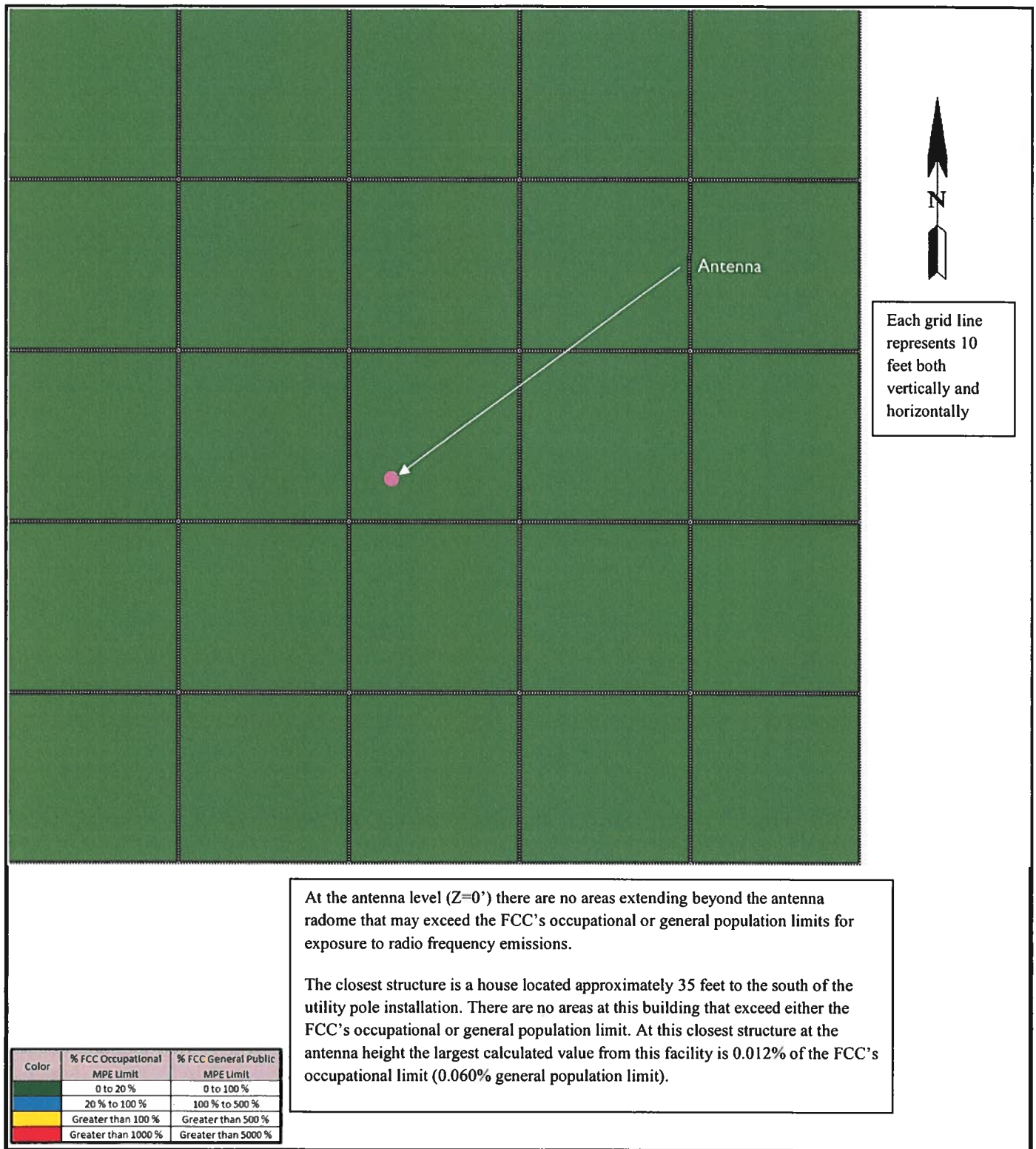
**** The Z-Value represents the distance in feet from the bottom of the antenna to the ground level**

3. Analysis

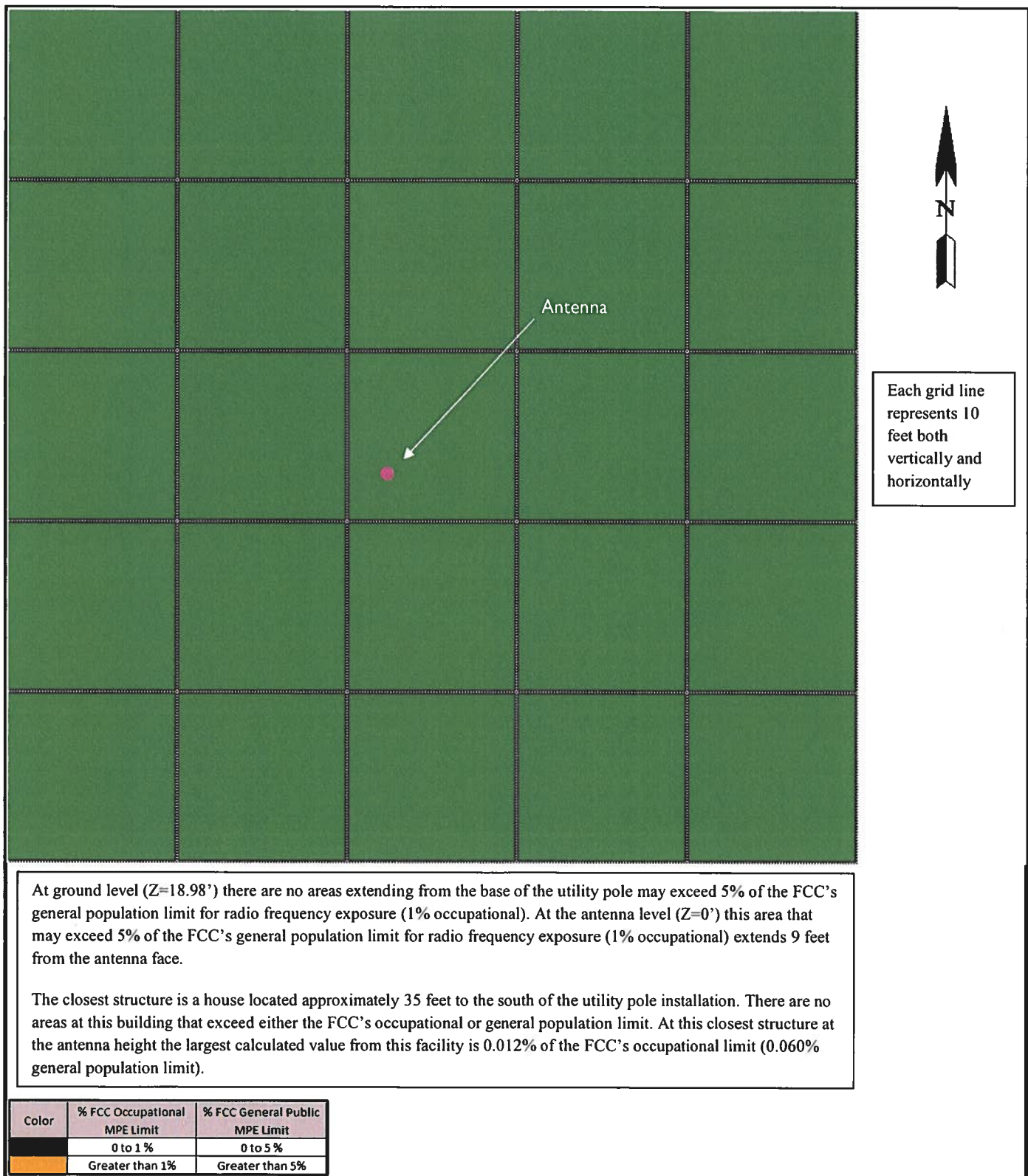
a. Predictive Model: All Transmitters (Z=18.98')



b. Predictive Model: All Transmitters (Z=0')



c. Predictive Model: Significant Contribution of ExteNet Systems



4. Conclusion

a. Conclusion Narrative

Description of MPE-Limit Exceeding Areas:

Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ExteNet's proposed antennas that exceed the FCC's occupational and/or general population exposure limits at this site. At the antenna level ($Z=0'$) there are no areas extending beyond the antenna radome that may exceed the FCC's occupational or general population limits for exposure to radio frequency emissions.

Carrier Significant Contribution Areas:

At ground level ($Z=18.98'$) there are no areas extending from the base of the utility pole may exceed 5% of the FCC's general population limit for radio frequency exposure (1% occupational). At the antenna level ($Z=0'$) this area that may exceed 5% of the FCC's general population limit for radio frequency exposure (1% occupational) extends 9 feet from the antenna face.

The closest structure is a house located approximately 35 feet to the south of the utility pole installation. There are no areas at this building that exceed either the FCC's occupational or general population limit. At this closest structure at the antenna height the largest calculated value from this facility is 0.012% of the FCC's occupational limit (0.060% general population limit).

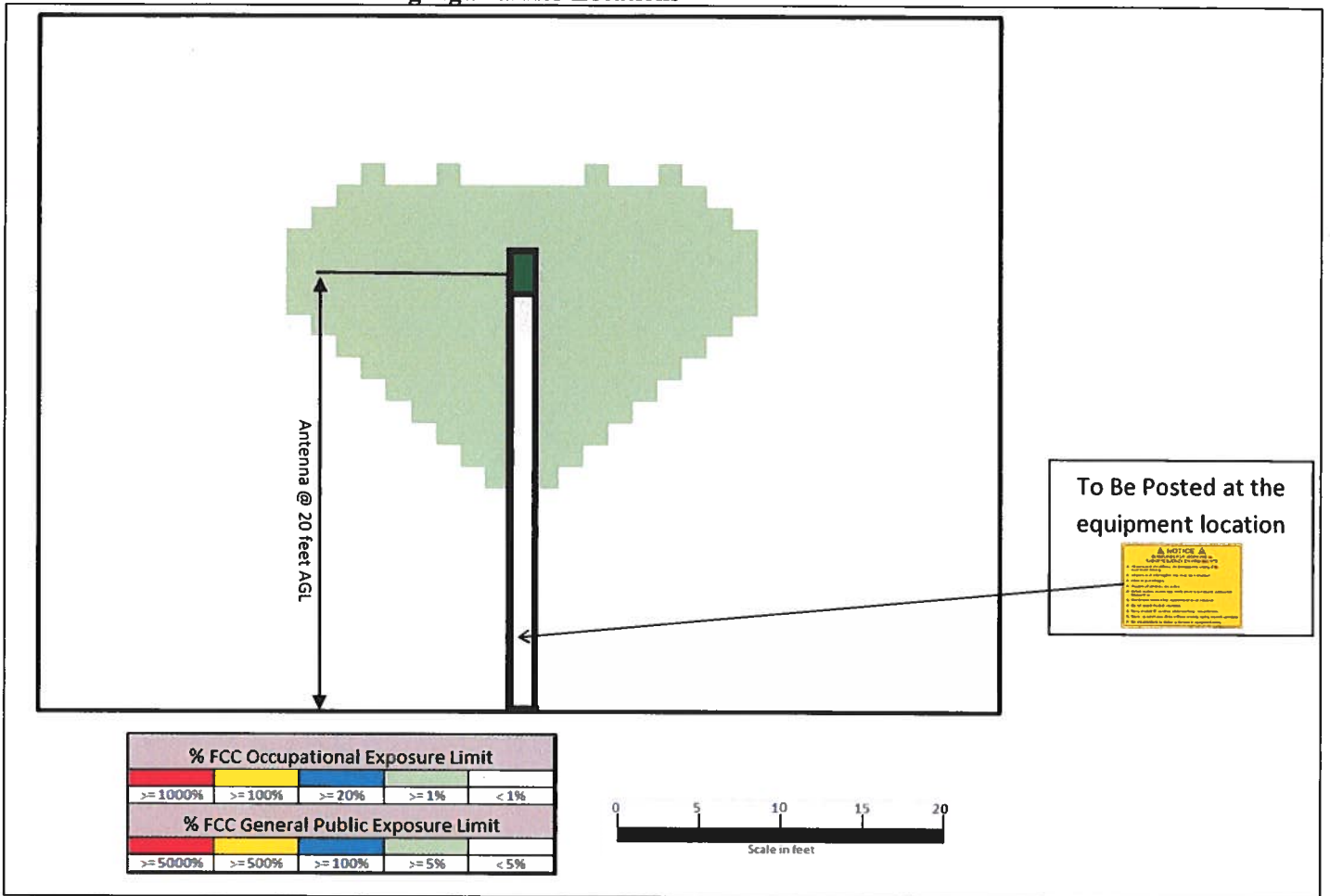
Collocator Significant Contribution Areas:

Based on review of construction drawings and aerial photographs, no collocators were identified onsite.

Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to the carrier's proposed antennas that exceed the FCC's occupational and/or general population exposure limits at this site.

b. Compliance Requirements

Elevation Emissions Levels & Signage/Barrier Locations



Compliance Requirements	<div> <div> NOTICE GUIDELINES FOR WORKING IN RADIOFREQUENCY ENVIRONMENTS • All personnel should have electromagnetic energy (EME) safety training. • All personnel entering this site must be notified. • Observe all posted signs. • Assume all antennas are active. • Before working on antennas, safety barriers, and disable appropriate transmitters. • Maintain a minimum 3 foot clearance from all antennas. • Do not touch the front of antennas. • Use personal RF monitors while working near antennas. • Never operate RF transmitters without shields, check your mail opened on. • Do not operate base station antennas in equipment areas. </div> <div> NOTICE If radio frequency fields beyond this point may exceed the FCC general public exposure limit, stay away from antennas and RF equipment. </div> <div> CAUTION Beyond this point Radio frequency fields at this site may exceed FCC limits for human exposure. For your safety, stay away from antennas and RF equipment. </div> <div> WARNING Beyond this point Radio frequency fields at this site may exceed the FCC limits for human exposure. Stay away from antennas and RF equipment. </div> <div> INFORMATION This is a Antenna Site Site ID: _____ For information: _____ </div> <div> </div> </div>					
	Guidelines	Notice	Caution	Warning	NOC Information	Barrier
Access Points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


Signage/Barrier Installation Detail

- There are no barriers recommended on this site.
- A Yellow Notice sign is recommended to be posted at the equipment installation location

5. Appendix C: RF Consultant Certifications


a. Preparer Certification

I, Scott Heffernan, the preparer of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the ExteNet Systems Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



b. Reviewer Certification

I, Brian Frazier, the reviewer and approved of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the ExteNet Systems Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



6. Appendix D: Reference Information

a. FCC Rules & Regulations

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards “incorporate prudent margins of safety.” The following represents explanations of the most applicable information:

Two Classifications for Exposure Limits

Occupational – Applies to situations in which persons are “exposed as a consequence of their *employment*” and are “*fully aware* of the potential for exposure and can *exercise control* over their exposure”.

General Population – Applies to situations in which persons are “exposed as a consequence of their employment *may not be made fully aware* of the potential for exposure or *cannot exercise control* over their exposure”. Generally speaking, those without significant and documented RF Safety & Awareness training would be in the General Population classification.

Environment Classification

Controlled – Applies to environments that are restricted or “controlled” in order to prevent access from members of the General Population classification.

Uncontrolled – Applies to environments that are unrestricted or “uncontrolled” that allow access from members of the General Population classification.

<i>Limits for Occupational/Controlled Exposure</i>		
Frequency	Power Density	Averaging Time
Range	(S)	$ E ^2$, $ H ^2$, or S
(MHz)	(mW/cm ²)	(minutes)
300-1500	$f/300$	6
1500-100,000	5	6
<i>Limits for General Population/Uncontrolled Exposure</i>		
Frequency	Power Density	Averaging Time
Range	(S)	$ E ^2$, $ H ^2$, or S
(MHz)	(mW/cm ²)	(minutes)
300-1500	$f/1500$	30
1500-100,000	1	30
$f = \text{frequency in MHz}$		

Significant Contribution to the RF Environment

Any carrier contributing an aggregate MPE percentage of 5 or more (to the applicable RF Environment Classification) is defined as a significant contributor. This means that if any area is determined to be out of compliance with FCC rules, all significant contributors are jointly responsible for correcting any deficiencies.

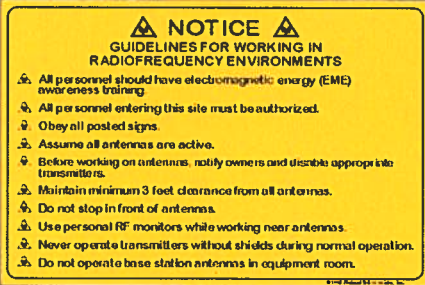



b. Occupational Safety and Health Administration (OSHA) Requirements


A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
<ul style="list-style-type: none"> Utilization of good equipment Enact control of hazard areas Limit exposures Employ medical surveillance and accident response 	<ul style="list-style-type: none"> Employ Lockout/Tag out Utilize personal alarms & protective clothing Prevent access to hazardous locations Develop or operate an administrative control program

c. RF Signage

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage **MUST** be viewable regardless of the viewer's position.

GUIDELINES	NOTICE	CAUTION	WARNING
Used anytime hazard signage is employed to achieve FCC compliance. This sign will inform visitors of the basic precautions to follow when working around radiofrequency equipment.	Used to distinguish the boundary between the General Population/Uncontrolled and the Occupational/Controlled areas. The limits associated with this notification must be less than the Occupational/Controlled MPE.	Identifies RF controlled areas where RF exposure can exceed the Occupational/Controlled MPE but below 10 x the Occupational/Controlled MPE.	Denotes the boundary of areas with RF levels substantially above the FCC limits, normally defined as those greater than ten (10) times the Occupational/Controlled MPE.
			

INFORMATION SIGN	INFORMATION
Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the ExteNet Systems Network Operations Center phone number.	

d. Barriers

A barrier is any physical demarcation employed as a preventative and/or notification measure that one is entering into an area with RF power density levels greater than the General Population/Uncontrolled limit.



ATTACHMENT E



247 Station Drive, NWBED
Westwood, Massachusetts 02090

November 29, 2018

Re: Initial Authorization for ExteNet Systems, Inc. to Attach to Eversource Energy d/b/a NSTAR poles

To Whom It May Concern:

Eversource Energy ("NSTAR") is aware that ExteNet Systems, Inc. is in the process of permitting for the installation of necessary telecommunications equipment and corresponding aerial fiber optic cable in various locations on NSTAR-owned poles in various municipalities within our service territory. As part of the process, we understand that there is a requirement for NSTAR to review these locations and provide the municipalities with confirmation of its approval in advance of ExteNet Systems, Inc. proposed attachment.

Accordingly, NSTAR hereby submits its initial authorization for ExteNet Systems, Inc. to install its equipment and corresponding aerial fiber routes to NSTAR poles in the geographic locations as depicted on the plans submitted by Extranet Systems Inc. and on file with the municipalities. The installations on NSTAR poles will be subject to the underlying terms and conditions of agreements by and between NSTAR and ExteNet Systems, Inc., as the same may be in effect from time to time.

If there is anything further that I can provide you with for your analysis, please do not hesitate to contact me at 508-441-5881.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard A. Comeau". The signature is fluid and cursive, with the first name "Richard" and last name "Comeau" clearly distinguishable.

Richard A Comeau
Eversource Energy d/b/a NSTAR Electric
Supervisor – Rights, Permits & Public Works
247 Station Dr, NWBED
Westwood, MA 02090
Ph: (508) 441-5881

CC: Paul Kelley

ATTACHMENT F

| 02186 | 617.680.5464 |

kbrinn@nbcllc.com

From: Katy Hax Holmes

<kholmes@newtonma.gov**>**

Sent: Thursday, February 14, 2019 9:54:43 AM

To: Keenan Brinn

Subject: RE: SMALL CELL APPLICATIONS

Keenan, as proposed these additions to existing polls would not constitute an effect on historic structures. Thanks for asking. Katy

From: Keenan Brinn **<**kbrinn@nbcllc.com**>**

Sent: Wednesday, February 13, 2019 4:48 PM

To: Katy Hax Holmes **<**kholmes@newtonma.gov**>**

Subject: Re: SMALL CELL APPLICATIONS

Katy -

These three small cells are all designed to sit on top of the wooden or steel utility pole in the Public right of way. They are all cylindrical in shape and about 24" tall and 10" in diameter. I sent the plans





CITY OF NEWTON MASSACHUSETTS

APPLICATION FORM

This Application Form is to be used for the permitting of (1) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does not have any pre-existing Wireless Communication Facility attachments; (2) Wireless Communication Facility attachments to an existing or replacement utility pole which is located in the public way and which does have pre-existing Wireless Communication Facility attachments, but does not satisfy the requirements under 47 U.S.C. §1455 and related Federal Communications Commission ("FCC") regulations; and (3) new pole construction in a public way primarily for purposes of providing Wireless Communication Services. Refer to City Council Wireless Grant of Location Standards & Procedures.

Filing of Application & Fee:

Please provide to the City Clerk in paper format an original and two (2) copies of your application and 10 copies of all attachments and plans. Also provide a complete application and attachments in PDF format or in a digital format compatible with the City's systems. **The application must be complete per the attached check list in order to be filed with the City Clerk.**

A filing fee of \$750 per location must accompany the application at the time of filing.

Applicant Contact Information:

Name: ExteNet Systems, Inc. Phone: 617-680-5464
Address: 100 Apollo Dr., Chelmsford, MA Email Address: kbrinn@nbcllc.com

Owner(s) of the Utility Pole:

Name: City of Newton Phone: 617-796-1000
Address: 1000 Commonwealth Ave. Newton, MA Email Address: _____

Owner of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes in whose name a Grant of Location order would be issued:

Name: ExteNet Systems, Inc. Phone: 617-680-5464
Address: 3030 Warrenville Rd., Lisle, IL Email Address: kbrinn@nbcllc.com

If different than the Owner, the User of the Proposed Wireless Communications Facilities and/or New Pole Primarily for Wireless Communications Purposes:

Name: _____ Phone: _____

Address: _____ Email Address: _____

If in residential area, is the location directly in front of a residence? ☐ Yes ☐ No

If yes, what is the distance between the proposed pole location and residence that it would front?

If the location is within a Historic District, please identify the historic district and state whether the applicant has filed for a Certificate from the Historic District Commission and if so, the date of that filing:

The Historic Preservation Officer has Certified that there is no adverse effect.

Pole #: _____

Description of Proposed Wireless Communications Facilities

Narrative description of the proposed wireless communications facilities.

The Applicant is seeking permission to build a small cell wireless facility utilizing an existing utility pole near the vicinity 140 Comm Ave. This installation will include an antenna, radio equipment, an electric meter and cabling for fiber and power. _____

The applicant has an approved application with the local utility company that controls the pole and a Letter of Authorization is included here. This facility will assist in enhancing wireless coverage in the area by providing voice and data upgrades. _____

If an applicant proposes adding to the number of Wireless Communications Facilities or expanding the dimensions of the proposed wireless communications facilities (except with regard to replacement of existing wireless communications equipment with comparable equipment), the applicant must apply for a new wireless grant of location for the additional wireless communications equipment.

Compliance Issues

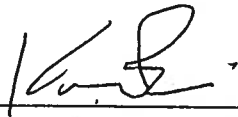
Identify any requirement or condition in the Standards with which the Applicant will not or cannot comply with and provide a complete explanation why it cannot or will not comply:

The Applicant is not aware of any requirement or condition with which it cannot comply. In the event there is additional information requested the Applicant will make all efforts to deliver and satisfy such requests.

Is the applicant requesting an exception to any standard under Section III.L.? If so, please specify the standard and provide factual support for the requested exception:

The Applicant is requesting no such exceptions at this time unless additional request are made by the City Departments.

Signature of Applicant: _____



Name and Title and any Business Name: Keenan Brinn - NB+C - Site Acquisition Consultant

Name of Principal or Client of Applicant: Extenet Systems, Inc.

Date Signed: _____

2-26-19

TABLE OF CONTENTS

ATTACHMENT A - SITE PLAN

ATTACHMENT B - PHOTO SIMULATIONS

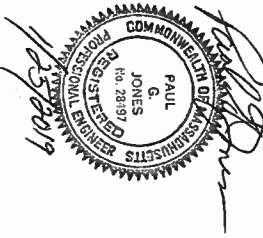
ATTACHMENT C - EVERSOURCE UTILITY LICENSE

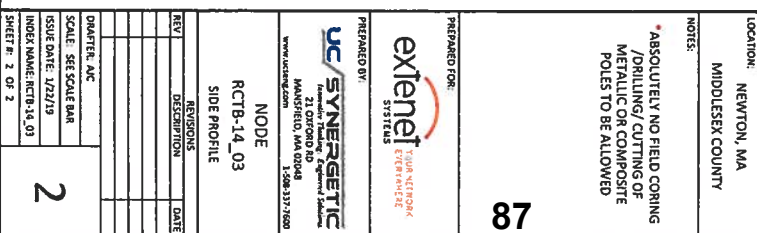
ATTACHMENT D - RF EMISSIONS STUDY

ATTACHMENT E - EVERSOURCE LETTER OF AUTHORIZATION

ATTACHMENT F - HISTORIC PRESERVATION CERTIFICATION

ATTACHMENT A





ATTACHMENT B



Site Name: NE-MA-ALBRD3M1
14003
Wireless Communication Facility
140 Commonwealth Avenue
Newton, MA 02467

Photograph Information:
Commonwealth Avenue
Showing the Existing Site



Site Name: NE-MA-ALBRD3M 1
14003
Wireless Communication Facility
140 Commonwealth Avenue
Newton, MA 02467

Photograph Information:
Commonwealth Avenue
Showing the Proposed Site

NBC
TOTALLY COMMITTED

ATTACHMENT C

ATTACHMENT D



Declaration of Site MPE Compliance

The following sites in Table 2 have been analyzed against the attached worst-case site parameters for MPE compliance and have been determined to meet occupational and general public MPE compliance requirements. See table below.

PROJECT ID: NE-MA-ALBRD3M1_BOSTD3M1_BRAND3m1_CN

DATE: 7/6/2018

Antenna: Galtronics GQ2410-06621 Quasi-OMNI

Config: 2

Table 1

Parameter	Site-Specific Result	Compliant?
Maximum amplifier output power	27 dBm	yes
Maximum antenna gain	3.7 dBi	yes
Minimum horizontal distance from any general public structure	0 ft	yes
Minimum horizontal distance to antenna for occupational MPE requirement	0 ft	yes
Minimum vertical distance to antenna for general public MPE requirement	0 ft	yes
Minimum vertical distance to antenna for occupational MPE requirement	0 ft	yes

Table 2

Latitude	Longitude	Name	Status	Rooftop
42.33790645	-71.17110485	NE-MA-ALBRD3M1-14003	Clear	N
42.33598038	-71.1511662	NE-MA-ALBRD3M1-14005	Clear	N
42.34933711	-71.14903061	NE-MA-ALBRD3M1-14006	Clear	N
42.34176131	-71.14506417	NE-MA-ALBRD3M1-14010	Clear	N
42.34781842	-71.13815185	NE-MA-ALBRD3M1-14011	Clear	N
42.34928198	-71.14193649	NE-MA-ALBRD3M1-14013	Clear	N
42.33832828	-71.15328283	NE-MA-ALBRD3M1-14014	Clear	N
42.36247808	-71.16820148	NE-MA-ALBRD3M1-14015	Clear	N
42.3502548	-71.14713717	NE-MA-ALBRD3M1-14016	Clear	N
42.362972	-71.157684	NE-MA-ALBRD3M1-14017	Clear	N
42.35498888	-71.14993446	NE-MA-ALBRD3M1-14019	Clear	N
42.3401361	-71.15241162	NE-MA-ALBRD3M1-14020	Clear	N
42.34772798	-71.14942981	NE-MA-ALBRD3M1-14024	Clear	N
42.36203999	-71.13031694	NE-MA-ALBRD3M1-14025	Clear	N
42.36421343	-71.11837779	NE-MA-ALBRD3M1-14026	Clear	N
42.33375961	-71.16541883	NE-MA-ALBRD3M1-14027	Clear	N
42.300966	-71.1148	NE-MA-BOSTD3M1-57001	Clear	N
42.28951896	-71.11835481	NE-MA-BOSTD3M1-57002	Clear	N
42.28131323	-71.07589315	NE-MA-BOSTD3M1-57004	Clear	N
42.28308138	-71.1137419	NE-MA-BOSTD3M1-57007	Clear	N
42.2819938	-71.07116925	NE-MA-BOSTD3M1-57009	Clear	N
42.26263751	-71.10828639	NE-MA-BOSTD3M1-57010	Clear	N
42.28350098	-71.08337263	NE-MA-BOSTD3M1-57011	Clear	N



Latitude	Longitude	Name	Status	Rooftop
42.28394638	-71.09177133	NE-MA-BOSTD3M1-57013	Clear	N
42.27928614	-71.09827056	NE-MA-BOSTD3M1-57014	Clear	N
42.26109829	-71.11349516	NE-MA-BOSTD3M1-57015	Clear	N
42.26438	-71.100362	NE-MA-BOSTD3M1-57016	Clear	N
42.27352792	-71.07910893	NE-MA-BOSTD3M1-57018	Clear	N
42.28664482	-71.09051273	NE-MA-BOSTD3M1-57019	Clear	N
42.32498411	-71.09901556	NE-MA-BOSTD3M1-58001	Clear	N
42.29732253	-71.06505687	NE-MA-BOSTD3M1-58002	Clear	N
42.29753721	-71.07063774	NE-MA-BOSTD3M1-58003	Clear	N
42.30592876	-71.06750948	NE-MA-BOSTD3M1-58004	Clear	N
42.29657043	-71.07936502	NE-MA-BOSTD3M1-58005	Clear	N
42.29746505	-71.05126096	NE-MA-BOSTD3M1-58006	Clear	N
42.30031734	-71.06609476	NE-MA-BOSTD3M1-58008	Clear	N
42.28996709	-71.05607189	NE-MA-BOSTD3M1-58009	Clear	N
42.32875057	-71.08279305	NE-MA-BOSTD3M1-58011	Clear	N
42.32186735	-71.07020376	NE-MA-BOSTD3M1-58012	Clear	N
42.31275466	-71.05868507	NE-MA-BOSTD3M1-58014	Clear	N
42.28545434	-71.06427795	NE-MA-BOSTD3M1-58015	Clear	N
42.30260608	-71.07806262	NE-MA-BOSTD3M1-58017	Clear	N
42.30409418	-71.06469337	NE-MA-BOSTD3M1-58018	Clear	N
42.29919125	-71.07412762	NE-MA-BOSTD3M1-58019	Clear	N
42.29369476	-71.0841004	NE-MA-BOSTD3M1-58020	Clear	N
42.32530262	-71.07473044	NE-MA-BOSTD3M1-58022	Clear	N
42.29353436	-71.05563659	NE-MA-BOSTD3M1-58023	Clear	N
42.32489908	-71.0829225	NE-MA-BOSTD3M1-58024	Clear	N
42.29621306	-71.08306968	NE-MA-BOSTD3M1-58025	Clear	N
42.2380176	-70.99174954	NE-MA-BRAND3M1-16002	Clear	N
42.28442062	-71.0451353	NE-MA-BRAND3M1-16004	Clear	N
42.24176218	-71.00369961	NE-MA-BRAND3M1-16007	Clear	N
42.39490846	-71.16369407	NE-MA-CMARD3M1-26002	Clear	N
42.39693966	-71.175784	NE-MA-CMARD3M1-26004	Clear	N
42.40025142	-71.02021432	NE-MA-NTSHD3M1-27001	Clear	N
42.40903323	-71.00251321	NE-MA-NTSHD3M1-27002	Clear	N
42.383683	-71.000268	NE-MA-NTSHD3M1-27006	Clear	N



Radio Frequency Exposure Pre-Installation FCC Compliance Assessment

Site Specific Information			
Site Name	NE-MA-ALBRD3M1_CMARD3M1-ATT (Node: NE-MA-CMARD3M1-26002)	Categorically Excluded?	No
Street Address	Off Concord Street	5% Contributor to Areas Requiring Mitigation?	No
City, State, Zip	Belmont, MA 02478		
Multi-Licensee Facility	No	Max % MPE (Predictive) at Ground Level	0.08 % Occupational 0.40 % General Population
Structure Type	Pole	Max % MPE (Measured)	N/A
Broadcast Equipment	No	Assessment Date	May 3, 2018
# of Access Points	Unknown	Assessment Purpose	Proposed Site
Compliance Status		Mitigation Required	

<input checked="" type="checkbox"/>	Worst-case RF power density levels are BELOW the MPE for General Population/Uncontrolled Environments in accessible areas.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE the MPE for General Population/Uncontrolled Environments but BELOW the MPE for Occupational/Controlled environments.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE the MPE for Occupational/Controlled Environments but BELOW 10x the MPE for Occupational/Controlled environments.
<input type="checkbox"/>	Worst-case RF power density levels are ABOVE 10x the MPE for Occupational/Controlled environments.

Compliance Requirements	     					
	Guidelines	Notice	Caution	Warning	NOC Information	Barrier
Access Points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Compliance Requirements(s):

There are no barriers recommended on this site. A Yellow Notice sign is recommended to be posted at the equipment installation location. Since there are no areas exceeding either the FCC's general population or occupational thresholds, no additional signage is required.

Consultant Legal Name	Centerline Communications, LLC	Phone/Fax	(978)660-3998
Address	95 Ryan Drive, Suite 1, Raynham, MA 02767		

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Contents

1. Executive Summary	3
2. Proposed Site Characteristics	5
a. Structure	5
b. Accessibility	5
c. ExteNet Systems Signage	5
d. Antenna Inventory	6
3. Analysis	7
a. Predictive Model: All Transmitters (Z=28.98)	7
b. Predictive Model: All Transmitters (Antenna Level)	8
c. Predictive Model: Significant Contribution of ExteNet Systems	9
4. Conclusion	10
a. Conclusion Narrative	10
b. Compliance Requirements	11
c. Elevation Emissions Levels & Signage/Barrier Locations	11
5. Appendix C: RF Consultant Certifications	12
a. Preparer Certification	12
b. Reviewer Certification	12
6. Appendix D: Reference Information	13
a. FCC Rules & Regulations	13
b. Occupational Safety and Health Administration (OSHA) Requirements	13
c. RF Signage	14
d. Barriers	14

1. Executive Summary

ExteNet Systems has contracted with Centerline Communications, LLC, an independent Radio Frequency consulting firm, to conduct a Radio Frequency Exposure (RFE) Compliance **Pre-Installation Assessment** of the **NE-MA-ALBRD3M1_CMARD3M1-ATT (Node: NE-MA-CMARD3M1-26002)** cell site located off Concord Street in Belmont, MA. The following report contains a detailed summary of the Radio Frequency environment as it relates to Federal Communications Commission (FCC) and Occupational Safety & Health Administration (OSHA) Rules and Regulations for all individuals.

The ExteNet Systems antenna data was provided by:

Name	Sunday Aiyash
Title	Technical Program Manager
Date	May 3, 2018
Region	Northeast

This **Pre-Installation** compliance assessment and report has been **prepared and reviewed** by:

	Preparer	Reviewer
Name	Scott Heffernan	Brian Frazier
Title	Director RF Engineering	Sr RF Engineer
Date	May 3, 2018	May 3, 2018

This report utilizes the following for **predictive modeling of the ambient RF environment**:

MPE Modeling Program: Roofview® 4.15

Required Modeling Assumptions: 100% Duty Cycle and Maximum Total Power Output.

Additional Modeling Assumptions:

Centerline Communications, LLC has performed theoretical modeling using RoofView® software as well as our proprietary small cell modeling software to estimate the worst-case power density at the site ground-level resulting from operation of the antennas as well as at the antenna level and at adjacent residential and business structures. RoofView® is a widely-used predictive modeling program that has been developed by Richard Tell Associates to predict both near field and far field RF power density values for roof-top and tower telecommunications sites produced by vertical collinear antennas that are typically used in the cellular, PCS, paging and other communications services. The models utilize several operational specifications for different types of antennas to produce a plot of spatially-averaged power densities that can be expressed as a percentage of the applicable exposure limit. RoofView® is used to model areas close to the antenna at the antenna mounting level. Our proprietary small cell modeling software analyzes the site profile based upon configuration power levels and antenna characteristics to accurately model the emissions profile extending away from the antenna location in a 6 foot spatially averaged format. This software is used to model far field areas where the antenna patterns have formed and is a better representation of actual power density values in these areas

The modeling is based on worst-case assumptions for the number of antennas and transmitter power. For AT&T, the modeling assumes a maximum 2 LTE radios with a composite transmit power level of 40 dBm (10 Watts) at 1900 MHz in 4 x 4 MIMO configuration and a maximum 1 LTE radio with a composite transmit power level of 27 dBm (0.5 Watts) at 5 GHz in 2 x 2 MIMO configuration in order to provide a worst-case evaluation of predicted MPE levels. The assumptions used in the modeling are based upon information provided by ExteNet.

For all calculations, all equipment was calculated using the following assumptions:

- **AT&T:** Two (2) 2203 Remote Radios for 1900 and one (1) 2205 Remote Radios for 5 GHz. The maximum deployed transmit power specified for these radio units is 5 Watts each for 1900 MHz and 0.5 Watts for 5 GHz.
- The antenna used in this modeling is the **Galtronics GQ2410-06621** which is a quasi-omnidirectional canister antenna.
- The calculations were performed at maximum gain on the main lobe of the antennas. The antenna mounting height for the proposed utility pole antenna installation is **30 feet** above ground level to antenna centerline.
- All calculations were done with respect to uncontrolled / general population and controlled / occupational threshold limits as specified in FCC OET65.
- There was 1.0 dB of system loss resulting from 1.0 dB of cable loss for each 1900 MHz and 5 GHz path.

2. Proposed Site Characteristics

a. Structure

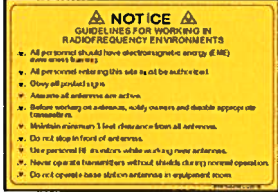





Physical Description	This project involves the installation of one (1) Galtronics GQ2410-06621 quasi-omnidirectional canister antenna on a utility pole at 30 feet above ground level. For AT&T, there will be three (3) radios installed on the utility pole. two (2) remote radio units for 1900 MHz LTE and one (1) remote radio unit for 5 GHz. The antenna will be installed on the approximate 29-foot pole at the 30-foot level (antenna centerline).
Site Latitude (NAD 83)	42.3949084557 N
Site Longitude (NAD 83)	-71.1636940749 W
Site Elevation (AMSL)	11 feet
Structure Height (AGL)	~29 feet
Overall Structure Height	~31 feet

b. Accessibility

Access to this site is accomplished by approaching the pole at ground level. Workers must be elevated to antenna level in order to access them, so these antennas are not accessible to the general population.

All access points locked at time of assessment?	N/A
All access points alarmed at time of assessment?	N/A

c. ExteNet Systems Signage

<u>Existing Signage</u>						
	Guidelines	Notice	Caution	Warning	NOC Information	Barrier
Access Points	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alpha	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Beta	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gamma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Existing Signage Adheres to carrier Signage & Demarcation Policy?						N/A

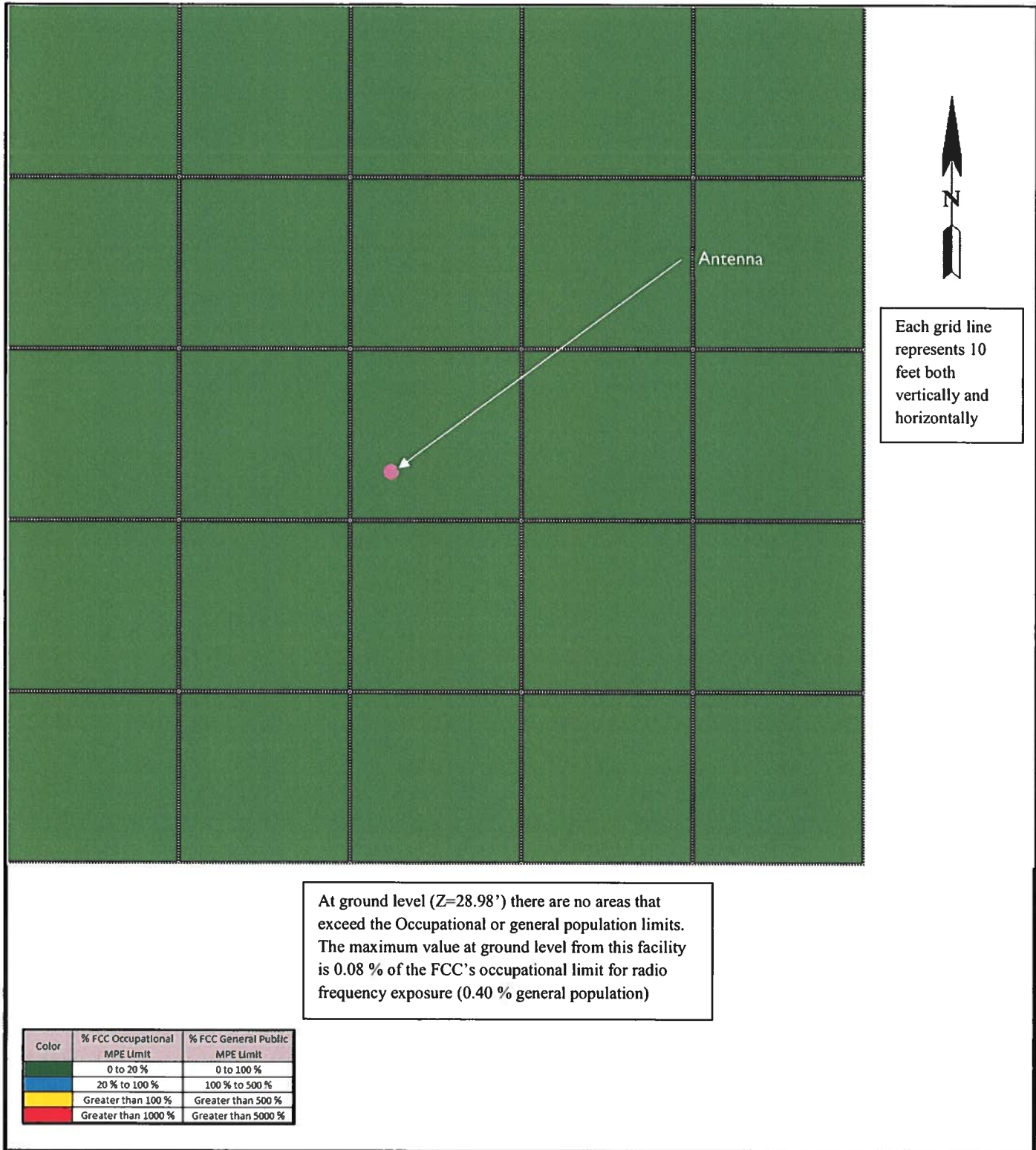
d. Antenna Inventory

Ant #	Operator	Antenna Model	Type	Frequency (MHz)	Az (deg)	Downtilt (deg.)	Horizontal Beamwidth (Degrees)	Ant (ft)	Total ERP (watts)	X	Y	Height above Nearest Walking Surface (z**)
ANT1	AT&T	Galtronics GQ2410-06621	Quasi- omnidirectional	1900 MHz & 5 GHz	0	0 degrees	Omni	2.04	38.42	50	50	28.98'

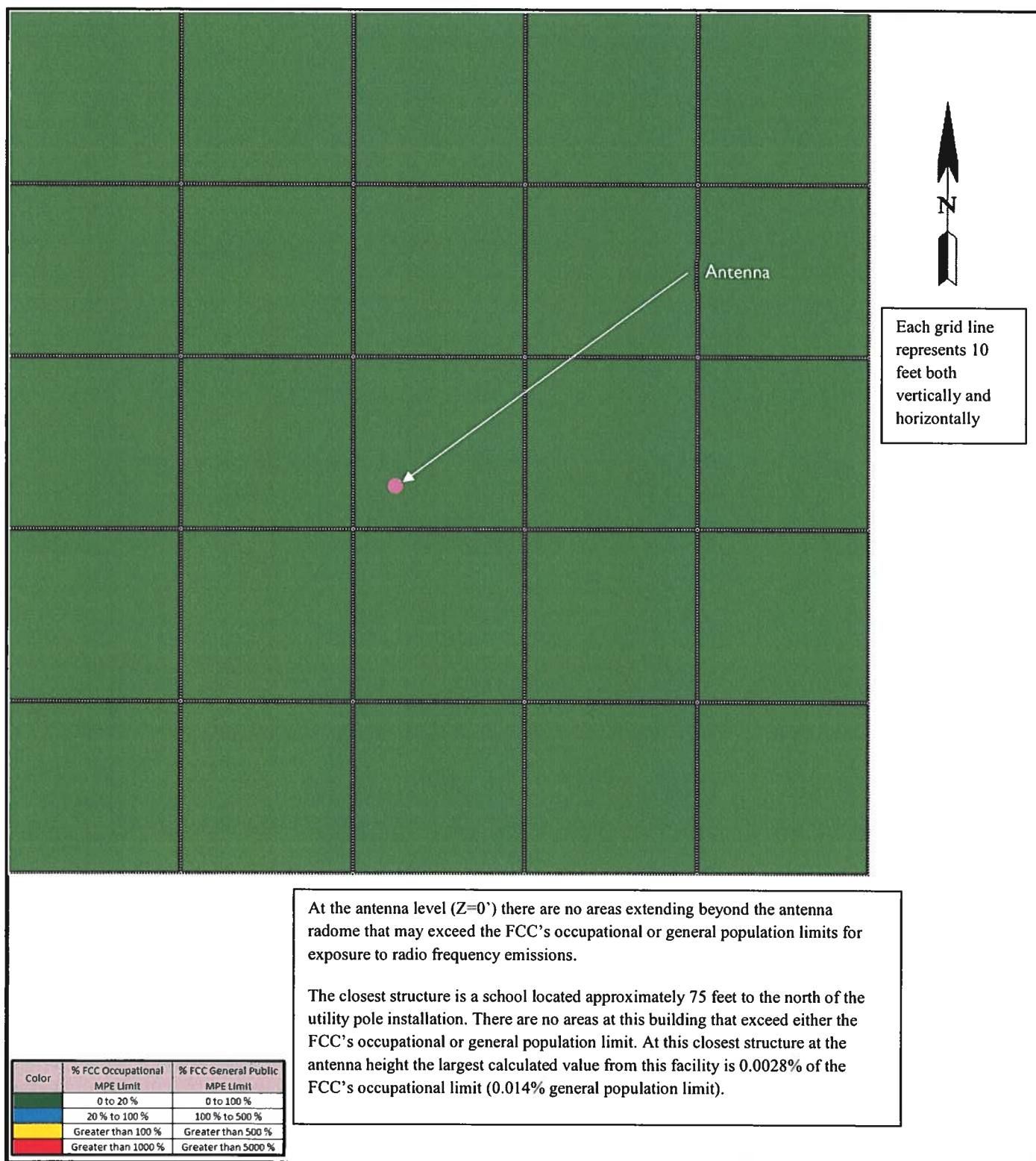
**** The Z-Value represents the distance in feet from the bottom of the antenna to the ground level**

3. Analysis

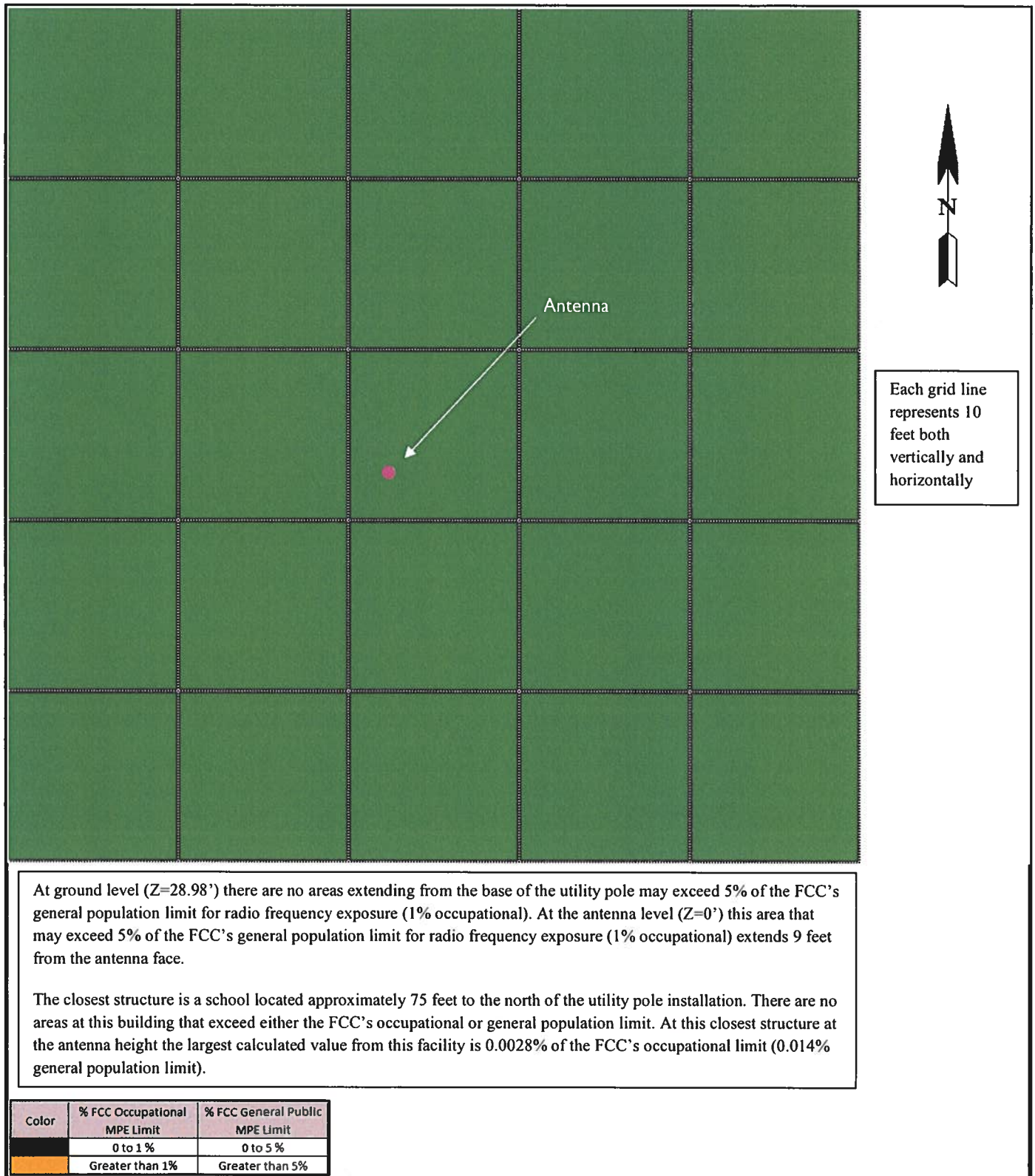
a. Predictive Model: All Transmitters (Z=28.98')



b. Predictive Model: All Transmitters (Z=0')



c. Predictive Model: Significant Contribution of ExteNet Systems



4. Conclusion

a. Conclusion Narrative

Description of MPE-Limit Exceeding Areas:

Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to ExteNet's proposed antennas that exceed the FCC's occupational and/or general population exposure limits at this site. At the antenna level ($Z=0'$) there are no areas extending beyond the antenna radome that may exceed the FCC's occupational or general population limits for exposure to radio frequency emissions.

Carrier Significant Contribution Areas:

At ground level ($Z=28.98'$) there are no areas extending from the base of the utility pole may exceed 5% of the FCC's general population limit for radio frequency exposure (1% occupational). At the antenna level ($Z=0'$) this area that may exceed 5% of the FCC's general population limit for radio frequency exposure (1% occupational) extends 9 feet from the antenna face.

The closest structure is a school located approximately 75 feet to the north of the utility pole installation. There are no areas at this building that exceed either the FCC's occupational or general population limit. At this closest structure at the antenna height the largest calculated value from this facility is 0.0028% of the FCC's occupational limit (0.014% general population limit).


Collocator Significant Contribution Areas:

Based on review of construction drawings and aerial photographs, no collocators were identified onsite.


Based on worst-case predictive modeling, there are no modeled exposures on any accessible ground walking/working surface related to the carrier's proposed antennas that exceed the FCC's occupational and/or general population exposure limits at this site.

5. Appendix C: RF Consultant Certifications**a. Preparer Certification**

I, Scott Heffernan, the preparer of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the ExteNet Systems Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

**b. Reviewer Certification**

I, Brian Frazier, the reviewer and approved of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the ExteNet Systems Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.



6. Appendix D: Reference Information

a. FCC Rules & Regulations

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards “incorporate prudent margins of safety.” The following represents explanations of the most applicable information:

Two Classifications for Exposure Limits

Occupational – Applies to situations in which persons are “exposed as a consequence of their *employment*” and are “*fully aware* of the potential for exposure and can *exercise control* over their exposure”.

General Population – Applies to situations in which persons are “exposed as a consequence of their employment *may not be made fully aware* of the potential for exposure or *cannot exercise control* over their exposure”. Generally speaking, those without significant and documented RF Safety & Awareness training would be in the General Population classification.

Environment Classification

Controlled – Applies to environments that are restricted or “controlled” in order to prevent access from members of the General Population classification.

Uncontrolled – Applies to environments that are unrestricted or “uncontrolled” that allow access from members of the General Population classification.

<i>Limits for Occupational/Controlled Exposure</i>		
Frequency	Power Density	Averaging Time
Range	(S)	$ E ^2$, $ H ^2$, or S
(MHz)	(mW/cm ²)	(minutes)
300-1500	$f/300$	6
1500-100,000	5	6
<i>Limits for General Population/Uncontrolled Exposure</i>		
Frequency	Power Density	Averaging Time
Range	(S)	$ E ^2$, $ H ^2$, or S
(MHz)	(mW/cm ²)	(minutes)
300-1500	$f/1500$	30
1500-100,000	1	30
<i>f = frequency in MHz</i>		

Significant Contribution to the RF Environment

Any carrier contributing an aggregate MPE percentage of 5 or more (to the applicable RF Environment Classification) is defined as a significant contributor. This means that if any area is determined to be out of compliance with FCC rules, all significant contributors are jointly responsible for correcting any deficiencies.

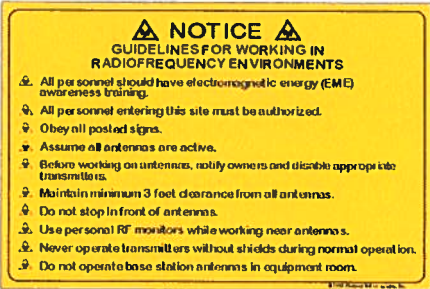



b. Occupational Safety and Health Administration (OSHA) Requirements


A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
<ul style="list-style-type: none"> Utilization of good equipment Enact control of hazard areas Limit exposures Employ medical surveillance and accident response 	<ul style="list-style-type: none"> Employ Lockout/Tag out Utilize personal alarms & protective clothing Prevent access to hazardous locations Develop or operate an administrative control program

c. RF Signage

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage **MUST** be viewable regardless of the viewer's position.

GUIDELINES	NOTICE	CAUTION	WARNING
Used anytime hazard signage is employed to achieve FCC compliance. This sign will inform visitors of the basic precautions to follow when working around radiofrequency equipment.	Used to distinguish the boundary between the General Population/Uncontrolled and the Occupational/Controlled areas. The limits associated with this notification must be less than the Occupational/Controlled MPE.	Identifies RF controlled areas where RF exposure can exceed the Occupational/Controlled MPE but below 10 x the Occupational/Controlled MPE.	Denotes the boundary of areas with RF levels substantially above the FCC limits, normally defined as those greater than ten (10) times the Occupational/Controlled MPE.
			

INFORMATION SIGN	INFORMATION
Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the ExteNet Systems Network Operations Center phone number.	

d. Barriers

A barrier is any physical demarcation employed as a preventative and/or notification measure that one is entering into an area with RF power density levels greater than the General Population/Uncontrolled limit.



ATTACHMENT E



247 Station Drive, NWBED
Westwood, Massachusetts 02090

November 29, 2018

Re: Initial Authorization for ExteNet Systems, Inc. to Attach to Eversource Energy d/b/a NSTAR poles

To Whom It May Concern:

Eversource Energy ("NSTAR") is aware that ExteNet Systems, Inc. is in the process of permitting for the installation of necessary telecommunications equipment and corresponding aerial fiber optic cable in various locations on NSTAR-owned poles in various municipalities within our service territory. As part of the process, we understand that there is a requirement for NSTAR to review these locations and provide the municipalities with confirmation of its approval in advance of ExteNet Systems, Inc. proposed attachment.

Accordingly, NSTAR hereby submits its initial authorization for ExteNet Systems, Inc. to install its equipment and corresponding aerial fiber routes to NSTAR poles in the geographic locations as depicted on the plans submitted by Extranet Systems Inc. and on file with the municipalities. The installations on NSTAR poles will be subject to the underlying terms and conditions of agreements by and between NSTAR and ExteNet Systems, Inc., as the same may be in effect from time to time.

If there is anything further that I can provide you with for your analysis, please do not hesitate to contact me at 508-441-5881.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard A. Comeau". The signature is fluid and cursive.

Richard A Comeau
Eversource Energy d/b/a NSTAR Electric
Supervisor – Rights, Permits & Public Works
247 Station Dr, NWBED
Westwood, MA 02090
Ph: (508) 441-5881

CC: Paul Kelley

ATTACHMENT F

| 02186 | 617.680.5464 |
kbrinn@nbcllc.com

From: Katy Hax Holmes
<kholmes@newtonma.gov>
Sent: Thursday, February 14, 2019 9:54:43 AM
To: Keenan Brinn
Subject: RE: SMALL CELL APPLICATIONS

Keenan, as proposed these additions to existing polls would not constitute an effect on historic structures. Thanks for asking. Katy

From: Keenan Brinn <kbrinn@nbcllc.com>
Sent: Wednesday, February 13, 2019 4:48 PM
To: Katy Hax Holmes <kholmes@newtonma.gov>
Subject: Re: SMALL CELL APPLICATIONS

Katy -

These three small cells are all designed to sit on top of the wooden or steel utility pole in the Public right of way. They are all cylindrical in shape and about 24" tall and 10" in diameter. I sent the plans



CITY OF NEWTON
Department of Public Works
ENGINEERING DIVISION

Memorandum

To: Council Deborah Crossley, Facilities Committee Chair.

From: John Daghljan, Associate City Engineer

Re: Wireless Communication Facility ~ 132 Adams Street (pole 31/15 Watertown Street)

Date: March 14, 2019

CC: Jonathon Yeo, CEO
Jim McGonagle, Commissioner DPW
Lou Taverna, PE City Engineer
Shawna Sullivan, Associate Clerk
Nadia Khan, Committee Clerk

In reference to the above location, the following are my comments for an application submitted by and entitled:

ExteNet Systems, Inc.
Prepared by: ExteNet Systems, Inc.
Dated: 2-26- '19

Executive Summary:

The applicant ExteNet Systems wishes to install wireless communication facility onto an existing pole #31/5 located on Watertown Street, not Adams Street as described on the application.

Based on a site visit today a new wood pole has been erected by Verizon crews that were on site, see following photo. It appears that the proposed equipment will not interfere with sidewalk snow removal equipment as the lowest proposed electric meter is 8-feet above sidewalk grade.

I recommend that the Fire Department Wires Division review and comment via separate memo for any concerns that they may have. Historic District Commission has certified that there is no adverse effect.



Pole #31/15 Watertown Street Photo taken March 14, 2019

Once the application is approved, the double pole should be removed with 90 days after the wireless facilities are installed.

1. The contractor of record shall contact the Newton Police Department and arrange for Police Detail during installation of new equipment.
2. Upon final installation an As Built drawing [plan & profile] indicating elevations of all new equipment shall be submitted in digital and hard copy format to the City Engineer stamped by a Massachusetts Professional Engineer.
3. The contractor of record shall obtain appropriate Permits with the Inspectional Services Department for all electrical, telecommunications construction.
4. The contractor of record shall contact the Newton Police Department and arrange for Police detail to help residents navigate around the construction activity.

If you have any questions or concerns, please call me at 617-796-1023.



Wireless Antenna Facilities Application Internal Only Check List

Location: 132 Adams Street

Pole #: _____

Date of Review: March 28, 2019

☐ No Action Needed

☐ Approved as Submitted

☒ Approved with Required Condition(s):

Paint the equipment to match the color of the pole

of Hours for this Review (Track each location separately): 0.5 hours

Employee Name: Shubee Sikka

Employee Department: Planning Department

Final Label Report

#114-19

SBL	Owner	Number	Street	Unit
14014 0036	SEWALL RICHARD D	132-136	ADAMS ST	
14014 0034	JENNIE MARIE TWO LLC	138-142	ADAMS ST	
14014 0033	DEVITO ALFONSO MNGR	150	ADAMS ST	
14001 0003	MAGNI ANDREW J & SERAFINA M	365-369	WATERTOWN ST	
14014 0040A	AMJ LLC	372	WATERTOWN ST	
14014 0040	376 380 WATERTOWN ST LLC	376-380	WATERTOWN ST	
14014 0039	DUBOIS DONALD & DOUGLAS	382-384	WATERTOWN ST	
14014 0037	MULA JOHN TR	386-390	WATERTOWN ST	
14014 0038	MULA JOHN L TR	392	WATERTOWN ST	
14014 0035	MULA JOHN L TR	394	WATERTOWN ST	
14011 0011	FARINA JOHN A & JOSEPH B	399-401	WATERTOWN ST	
14008 0001	THE VILLAGE BANK	405-411	WATERTOWN ST	
14008 0002	THE VILLAGE BANK	413	WATERTOWN ST	
14015 0024	A & L AUTO SERVICE LLC	414	WATERTOWN ST	
14015 0023	FOX PHARMACY OF NEWTON INC	416	WATERTOWN ST	
14008 0004	TURNER R BROUGH	417-417	WATERTOWN ST	
14015 0022	BIANCHI MARIA TR	418	WATERTOWN ST	

CITY OF NEWTON
Department of Public Works
ENGINEERING DIVISION

Memorandum

To: Council Deborah Crossley, Facilities Committee Chair.

From: John Daghljan, Associate City Engineer

Re: Wireless Communication Facility ~ 262 Beacon Street Utility Pole #31/6

Date: March 14, 2019

CC: Jonathan Yeo, CEO
Jim McGonagle, Commissioner
Lou Taverna, PE City Engineer
Shawna Sullivan, Associate Clerk
Nadia Khan, Committee Clerk

In reference to the above location, the following are my comments for an application submitted by and entitled:

ExteNet Systems, Inc.
Prepared by: ExteNet Systems, Inc.
Dated: 2-26- '19

Executive Summary:

This application entails the installation of small cell wireless facilities at #262 *Beacon Street* in Chestnut Hill across the Boston College campus, (see attached photo). The installation is onto an existing wood pole, it appears that the proposed equipment will not interfere with sidewalk snow removal equipment as the lowest proposed electric meter is 11-feet above sidewalk grade. Power supply will be provided from the secondary distribution that exists in the pole.



Pole #31-6 @ #120 Beacon Street Photo taken 3-14-'19

1. The contractor of record shall contact the Newton Police Department and arrange for Police Detail during installation of new equipment.
2. Upon final installation an As Built drawing [plan & profile] indicating elevations of all new equipment shall be submitted in digital and hard copy format to the City Engineer stamped by a Massachusetts Professional Engineer.
3. The contractor of record shall obtain appropriate Permits with the Inspectional Services Department for all electrical, telecommunications construction.
4. The contractor of record shall contact the Newton Police Department and arrange for Police detail to help residents navigate around the construction activity.

If you have any questions or concerns, please call me at 617-796-1023.

STAFF MEMORANDUM

DATE: March 26, 2019

TO: Public Facilities Committee

FROM: Barbara Kurze, Senior Preservation Planner

SUBJECT: Wireless Application for 262 Beacon Street, Chestnut Hill Historic District

The Chestnut Hill Historic District Commission reviewed the 262 Beacon Street application at the March 21, 2019 meeting and determined that the Commission did not have all the information needed to justify this location and to justify granting a Certificate of Hardship. The applicant, Keenan Brinn, agreed in writing to continue the review to the April 18th meeting. To make the case for a Certificate of Hardship, Keenan Brinn agreed to provide the radio frequency coverage map and other information to explain why this is the only location that will meet the applicants' needs.



Wireless Antenna Facilities Application Internal Only Check List

Location: 262 Beacon Street

Pole #: _____

Date of Review: March 28, 2019

☐ No Action Needed

☐ Approved as Submitted

☒ Approved with Required Condition(s):

The planning department recommends the applicant to investigate the following to have further discussion at the City Council meeting:

- Investigate if it is possible to move to another pole, since the pole chosen is in front of a house
- Investigate if there are options to narrow the equipment to nearly the same width as the pole
- Investigate if the antenna can be top-mounted, shorter, and narrower

of Hours for this Review (Track each location separately): 1 hour

Employee Name: Shubee Sikka

Employee Department: Planning Department

Final Label Report

#115-19

SBL	Owner	Number	Street	Unit
63021 0001	TRUSTEES OF BOSTON COLLEGE		BEACON ST	
63021 0007	JESUIT COMMUNITY AT BOSTON COLLEGE	246	BEACON ST	
63020 0005	TRUSTEES OF BOSTON COLLEGE	262	BEACON ST	
63009 0002	TRUSTEES OF BOSTON COLLEGE	140	COMMONWEALTH AVE	
63020 0004	TRUSTEES OF BOSTON COLLEGE	258	HAMMOND ST	
63020 0006	TRUSTEES OF BOSTON COLLEGE		LAWRENCE AVE	
63020 0007	DRISCOLL BRIDGET A	19	LAWRENCE AVE	
63021 0006	TRUSTEES OF BOSTON COLLEGE	67	LEE RD	

CITY OF NEWTON
Department of Public Works
ENGINEERING DIVISION

Memorandum

To: Council Deborah Crossley, Facilities Committee Chair.

From: John Daghljan, Associate City Engineer

Re: Wireless Communication Facility ~ 140 Commonwealth Avenue

Date: March 27, 2019

CC: Jonathan Yeo, CEO
Jim McGonagle, Commissioner
Lou Taverna, PE City Engineer
Shawna Sullivan, Associate Clerk
Nadia Khan, Committee Clerk

In reference to the above location, the following are my comments for an application submitted by and entitled:

ExteNet Systems, Inc.
Prepared by: ExteNet Systems, Inc.
Dated: 2-26- '19

Executive Summary:

The applicant ExteNet Systems wishes to install wireless communication facility onto an existing cement concrete street light located at #140 Commonwealth Avenue in Chestnut Hill near the main entrance of Boston College. Based on a site visit of March 14th the street light pole is about 3' off vertically plumb. The DPW will require that the applicant retain a Registered Professional Engineer certified in Massachusetts to design a new cast aluminum ornamental street light pole and concrete foundation base that will be capable of supporting the street light along with the new small cell facility; the design needs to account for dead & live loads such as all the equipment weight plus street light, banners, wind load, soil bearing capacity. The Traffic Division will provide specifications for style and paint requirements of the street light & post.

Additionally, an agreement is needed that if this new street light pole is damaged due to any accident and or vandalism, the applicant will be responsible for replacement in kind for the designed intent with 72 hours.



Cement Concrete Street Light Photo taken March 14, 2019

1. The contractor of record shall contact the Newton Police Department and arrange for Police Detail during installation of new equipment.
2. Upon final installation an As Built drawing [plan & profile] indicating elevations of all new equipment shall be submitted in digital and hard copy format to the City Engineer stamped by a Massachusetts Professional Engineer.
3. The contractor of record shall obtain appropriate Permits with the Inspectional Services Department for all electrical, telecommunications construction.

If you have any questions or concerns, please call me at 617-796-1023.



Wireless Antenna Facilities Application Internal Only Check List

Location: 140 Commonwealth Avenue

Pole #:

Date of Review: March 28, 2019

☐ No Action Needed

☒ Approved as Submitted

☐ Approved with Required Condition(s):

of Hours for this Review (Track each location separately): 0.5 hours

Employee Name: Shubee Sikka

Employee Department: Planning Department

Final Label Report

#116-19

SBL	Owner	Number	Street	Unit
63016 0020	SANDER MARCEL & DANIEL T/C	342	BEACON ST	
63014 0010	TRUSTEES OF BOSTON COLLEGE	36	COLLEGE RD	
63010 0013	TRUSTEES OF BOSTON COLLEGE	50	COLLEGE RD	
63010 0012	TRUSTEES OF BOSTON COLLEGE	58	COLLEGE RD	
63010 0011	ONEILL INDUSTRIES LLC	66	COLLEGE RD	
63010 0010	TRUSTEES OF BOSTON COLLEGE	72	COLLEGE RD	
63010 0009	TRUSTEES OF BOSTON COLLEGE	78	COLLEGE RD	
63010 0008	TRUSTEES OF BOSTON COLLEGE	84	COLLEGE RD	
63010 0007	TRUSTEES OF BOSTON COLLEGE	90	COLLEGE RD	
63010 0006	TRUSTEES OF BOSTON COLLEGE	96	COLLEGE RD	
63010 0005	TRUSTEES OF BOSTON COLLEGE	102	COLLEGE RD	
63010 0004	TRUSTEES OF BOSTON COLLEGE	110	COLLEGE RD	
63010 0003	TRUSTEES OF BOSTON COLLEGE	116	COLLEGE RD	
63010 0002	TRUSTEES OF BOSTON COLLEGE	122	COLLEGE RD	
63010 0001	TRUSTEES OF BOSTON COLLEGE	128	COLLEGE RD	
63013 0017	TRUSTEES OF BOSTON COLLEGE		COMMONWEALTH AVE	
63009 0002A	TRUSTEES OF BOSTON COLLEGE	90-100	COMMONWEALTH AVE	
63008 0046	POLYHRONOPOULOS NICHOLAS & VASILKI	103	COMMONWEALTH AVE	
63008 0047	BROWN MELINDA J	109	COMMONWEALTH AVE	
63008 0048	KELLEY JEAN M	115	COMMONWEALTH AVE	
63008 0049	QUINTANAR GERARD	119	COMMONWEALTH AVE	
63008 0050	WILSON CHRISTOPHER	127	COMMONWEALTH AVE	
63008 0051	BENEDICT COLEMAN J JR	137	COMMONWEALTH AVE	
63009 0002	TRUSTEES OF BOSTON COLLEGE	140	COMMONWEALTH AVE	
63008 0052	MORRISSEY WILLIAM P	143	COMMONWEALTH AVE	
63008 0053	MCNAMARA JOHN B JR	151	COMMONWEALTH AVE	
63008 0027	WONG PETER & LILY C	159	COMMONWEALTH AVE	
63015 0001	TRUSTEES OF BOSTON COLLEGE	147-201	HAMMOND ST	
63014 0011	TRUSTEES OF BOSTON COLLEGE	180-200	HAMMOND ST	
63020 0004	TRUSTEES OF BOSTON COLLEGE	258	HAMMOND ST	
63016 0021	GREEN MARION TR	9	OLD ORCHARD RD	
63014 0009	TRUSTEES OF BOSTON COLLEGE	4	QUINCY RD	

Nadia Khan

From: Glenn Manning
Sent: Wednesday, March 27, 2019 9:58 AM
To: Nadia Khan
Subject: Re: Applications

Nadia I did not see any issue on my end of things with this location.

Glenn Manning
Superintendent
Fire Alarm and Wires Division
Newton Fire Department



City of Newton

PETITION FOR DRAIN AND SEWER

December 12 ²⁰/₁₄

To THE BOARD OF ALDERMEN:-

The undersigned believing that the public convenience and the public health require it, respectfully petition that a main drain and common sewer be constructed in

STANIFORD

Insert street or way, or private lands, give names of owners.

from 49 Staniford ST.

to 48 Staniford ST.

in that part of Newton called Auburndale

RECEIVED
NEWTON CITY CLERK
016 DEC 13 AM 11:18
David A. Olsen, Clerk
Newton, MA 02459

Do not write here. Binding marginal

Signatures of petitioners here:	ADDRESSES
James P. Barberis	49 Staniford ST. Auburndale
Ann H. Pine	50 STANIFORD ST. AUBURNDALE
Letta Decker	68 Staniford St. Auburndale
Ala 16th	56 Staniford St, Auburndale
Charles Wier	65 Staniford St, Auburndale
Murayan	55 Staniford Street, Auburndale
May Ponske	62 Staniford St. Auburndale

In Board of Aldermen, _____

Referred to Committee on Public Works

Clerk.



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#114-19

Telephone
(617) 796-1100

Telefax
(617) 796-1113

TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I write to request that your Honorable Council docket for consideration a request to authorize the appropriation and expenditure of \$256,000 from Sewer Fund Reserve for the purpose of funding the Staniford Street Sewer Extension. This sewer extension project will connect 8 residences to the City's sewer system.

Sewer betterment assessments will be attached based on the residents paying half of the construction cost, currently estimated at (\$128,000). Final assessments will be presented once construction is completed and actual construction costs are known.

In the end, the City will only pay 50% of the cost of this project with the residents paying the other 50%.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECEIVED
Newton City Clerk
March 11, 2019
2019 MAR 12 AM 8:33
David A. O'Connell, Clerk
Newton, MA 02459

City of Newton



DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE COMMISSIONER

1000 Commonwealth Avenue

Newton Centre, MA 02459-1449

Ruthanne Fuller
Mayor

February 28, 2019

To: Jonathan Yeo, Chief Operating Officer
Maureen Lemieux, Chief Financial Officer

From: James McGonagle, Commissioner of Public Works

Subject: Request for Construction Project Funds
Preliminary Assessment of Sewer Betterments
Staniford Street Sewer Extension
Docket Item #279-18

The proposed Staniford Street sewer extension design project is completed. The proposed sewer extension extends in a west to east direction from house #68 Staniford Street toward an existing sewer manhole in Freeman Street. The sewer extension includes approximately 368 linear feet of new 8" diameter sewer main, plus 2 new sewer manholes, plus connections to the property line at 8 residences. The 8 residences include numbers 39, 49, 50, 55, 56, 62, 65, and 68.

The preliminary sewer betterment assessments are attached, and are based on current city ordinance Section 29-71 and 29-72. The engineer's opinion of probable construction cost is \$256,000. Preliminary sewer betterments are assessed based on the residents paying half of the construction cost (\$128,000), and the city paying half of the construction cost. Final sewer betterment assessments will be presented for consideration once construction is completed, and actual construction costs are known.

We request construction project funds of \$256,000 for this sewer extension project.

Please docket this request with the Honorable City Council.

attachments

cc: David Olsen, City Clerk
Shawna Sullivan Assistant City Clerk
Louis M. Taverna, P.E., City Engineer
Ted Jerdee, Director of Utilities
Jack Cowell, DPW Finance Director

WSE Job No. 2180692

2/27/2019

ENGINEER'S COST ESTIMATE

DONE BY: Patrick Terrien

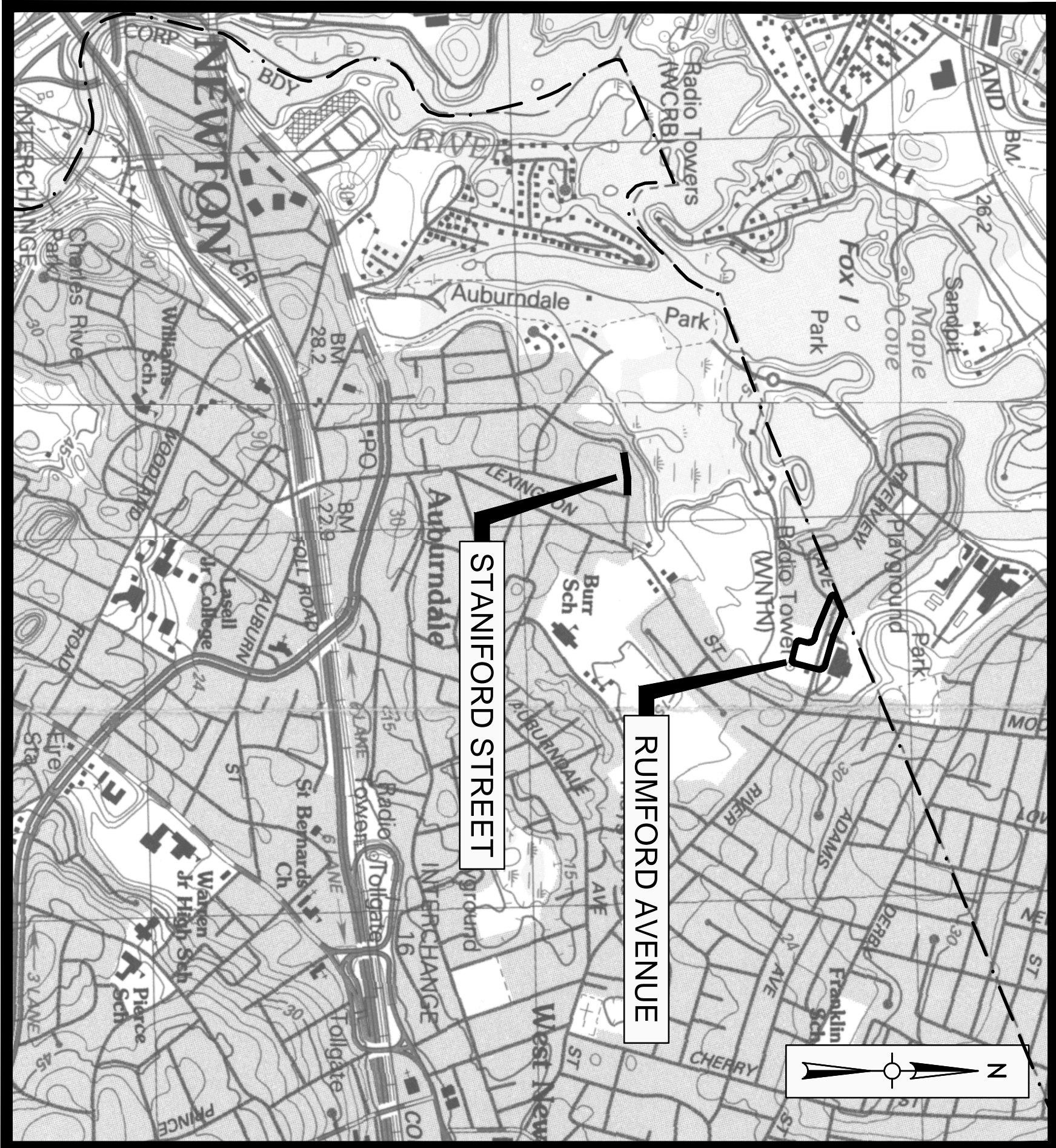
CHECKED BY David Elmer

**CITY OF NEWTON, MASSACHUSETTS
STANIFORD STREET SEWER EXTENSION**

ITEM #	QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL AMOUNT
BASE BID (Items 1 to 10)					
1	Sewers Complete in Place				
1a	368	l.f.	8-inch PVC gravity sewers, per linear foot	\$275.00	\$101,200.00
SUBTOTAL					\$101,200.00
2	Building Connection Systems				
2a	8	wyes or tees	8x6 inch wye branches for PVC pipe, each	\$2,500.00	\$20,000.00
2b	185	l.f.	6-inch PVC building connections, per linear foot	\$125.00	\$23,125.00
SUBTOTAL					\$43,125.00
3	Manholes and Catch Basins				
3a	2	manholes	Precast concrete manhole base with standard frame and cover, 4.0 ft. diameter, per manhole	\$8,000.00	\$16,000.00
3b	16	v.f.	Precast concrete manhole walls and cones, 4.0 ft. diameter, per vertical foot	\$250.00	\$4,000.00
3c	1	catch basin	Precast concrete catch basin with frame and grates, per catch basin	\$6,000.00	\$6,000.00
SUBTOTAL					\$26,000.00
5	Rock Excavation and Disposal				
5a	75	c.y.**	Rock excavation and disposal, per cubic yard (minimum)	\$60.00	\$4,500.00

ITEM #	QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL AMOUNT
5b	75	c.y.**	Rock excavation and disposal, per cubic yard (additional)	\$0.01	\$0.75
				SUBTOTAL	\$4,500.75
6	Additional Earthwork				
6a	75	c.y.	Earth excavation and backfill below normal grade, per cubic yard	\$20.00	\$1,500.00
6b	75	c.y.	Earth excavation and backfill above normal grade, per cubic yard	\$10.00	\$750.00
6c	75	c.y.	Test pits, per cubic yard	\$50.00	\$3,750.00
				SUBTOTAL	\$6,000.00
7	Pavement Replacement				
7a	368	l.f.	Temporary trench width pavement (2-inches thick), per linear foot	\$25.00	\$9,200.00
7b	368	l.f.	Permanent binder course trench width pavement (2 1/2-inches thick), per linear foot	\$25.00	\$9,200.00
7c	368	l.f.	Permanent top course trench width pavement (1 1/2-inches thick), per linear foot	\$25.00	\$9,200.00
7d	25	tons	Additional pavement, per ton	\$150.00	\$3,750.00
				SUBTOTAL	\$31,350.00
8	Water and Drain Reconstruction				
8a	2	reconstructions	Water and drain reconstruction within sewer trench limits, per reconstruction	\$1,200.00	\$2,400.00
				SUBTOTAL	\$2,400.00

ITEM #	QUANTITY	UNIT	DESCRIPTION	UNIT COST	TOTAL AMOUNT
9			Mobilization		
9a	1	l.s.	Mobilization, lump sum (not more than 5% of Items 1 to 8)		\$11,603.79
			SUBTOTAL		\$11,603.79
10			Allowances for Services of Uniformed Officers		
10a	350	hours	Uniformed officers for traffic control, per hour	\$50.00	\$17,500.00
			SUBTOTAL		\$17,500.00
			BASE BID (Items 1 to 10) CONTINGENCY: 5%		\$12,183.98
			BASE BID (Items 1 to 10) TOTAL		\$255,863.51
			TOTAL		\$255,863.51



LOCUS MAP
SCALE: 1"=1000'

DRAWING INDEX	
SHEET	TITLE
G-1	ABBREVIATIONS, NOTES AND LEGEND
C-1	STANIFORD STREET PLAN AND PROFILE
C-2	RUMFORD AVENUE PLAN AND PROFILE
C-3	CONSTRUCTION ZONE SAFETY PLAN
D-1	DETAILS I
D-2	DETAILS II
D-3	DETAILS III

CITY OF NEWTON, MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS

1000 COMMONWEALTH AVENUE,

NEWTON CENTRE, MASSACHUSETTS 02459

STANIFORD STREET SEWER EXTENSION

AND RUMFORD AVENUE TRANSFER


STATION GRINDER PUMP

BID INVITATION # - - -

RUTHANNE FULLER, MAYOR

JAMES MCGONAGLE, COMMISSIONER OF PUBLIC WORKS

FEBRUARY 2019

Weston & Sampson  SM

Weston & Sampson Engineers, Inc.
55 Walkers Brook Drive, Reading, MA 01867

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	— S —	— 8" PVC —
FORCE MAIN	— — —	— 6" TM DI —
WATER MAIN	— W —	— 6" W DI —
TEMPORARY WATER		— 4" W —
STORM DRAIN	— D —	— 18" D RCP —
GAS	— G —	— 4" G —
ELECTRIC	— E —	— E —
TELEPHONE	— T —	— T —
HOUSE CONNECTION		6" HOUSE CONN (TYP)
GRINDER PUMP	○	● GP
SANITARY SEWER MANHOLE	⊙	● SMH
STORM DRAIN MANHOLE	⊙	● SDMH
ELECTRICAL MANHOLE	○	● EMH
TELEPHONE MANHOLE	○	● TMH
AIR RELEASE VALVE MANHOLE	○	● ARMH
FORCE MAIN CLEANOUT MANHOLE	○	● FMC
CLEANOUT	○	● CO
CATCH BASIN	□	■ CB
CATCH BASIN (CURB INLET)	■	
HYDRANT	⌵	◆
TEMPORARY HYDRANT		⊕
GATE VALVE	⌵	⌵
CHECK VALVE	⌵	⌵
CURB STOP	⌵	⌵
BUTTERFLY VALVE	⌵	⌵
BALL VALVE	⌵	⌵
REDUCER	▽	▲
CAP OR PLUG	—	—
GAS GATE VALVE	⌵	—
UTILITY POLE	⌵	◆
GUY POLE	—●—	
LIGHT POST	⌵	
EDGE OF PAVEMENT	—	—
EDGE OF UNPAVED ROAD	—	—
CURB		
SIDEWALK		
RAILROAD	+++++	
STONE WALL	=====	
RETAINING WALL	RET WALL	RET WALL
FENCE	— x — x —	— x — x —
INDIVIDUAL DECIDUOUS TREE	⊙	⊙
INDIVIDUAL EVERGREEN TREE	⌵	⌵
TREE LINE	~~~~~	~~~~~
SURVEY MARKER	□	
PROPERTY LINE	— E —	
EASEMENT LINE	— — —	— — —
LIMIT OF WORK	x 141.5	x 141.5
SPOT ELEVATIONS	— 56 —	— 56 —
CONTOUR LINES	— #35 —	— T —
DEPRESSION CONTOUR LINES	[F=56.7]	
HOUSE NUMBER	[S=56.7]	
FLOOR ELEVATION		
SILL ELEVATION	— 4 — 4 —	
WETLAND	○	
STATE HIGHWAY STATION	—	
SIGN	—	
BENCH MARK	⊕	⊕ TP-1
TEST PIT	⊕ 1	⊕ B-11
BORING	⊕ B-10	
HAY BALES		
ROCK OUTCROP		
DRAINAGE DITCH / SWALE	=====	=====

NOTE. ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACOMP	ASPHALT COATED CORRUGATED METAL PIPE
ARY	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BS	BARE STEEL
BY	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
CL	CENTLINE
CMP	CEMENT LINED
CONC	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DI	DROP INLET, DUCTILE IRON
DIA	DIMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
E	EAST, ELECTRIC
EA	EACH FACE
EF	ELEVATION
ELEV	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GALV	GALVANIZED
GR	GRANITE CURB
HC	HOUSE CONNECTION
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
I	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION
MDPW	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
MECH	MECHANICAL
MH	MANHOLE
MasDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MMRA	MASSACHUSETTS WATER RESOURCES AUTHORITY
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
NO	NO OR #
OD	OUTSIDE DIAMETER
PCOP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
PWMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
ROD	ROCK QUALITY
S	SEWER, SOUTH
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STA	STATION
SW	STEEL
T	SIDEWALK, SOUTH WEST
THK	HYDROSTATIC THRUST, TELEPHONE
TYP	TEMPORARY BENCH MARK
UP	THICK (NESS)
VC	TYPICAL
VERT	UTILITY POLE
W	VITRIFIED CLAY
W/O	VERTICAL
	WATER, WEST
	WITHOUT

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CALL DISGAE AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DISGAE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
2. LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
3. TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER.
4. STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
5. ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
6. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
7. CONCRETE GRADES OR ARCHES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE GRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
8. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
9. SEWER TRENCHES MAY BE EXCAVATED DEEPER THAN THE 'LIMIT OF EXCAVATION AND PAYMENT FOR EARTH EXCAVATION' ABOVE THE 'LINE OF NARROW TRENCH LIMIT.' ANY SUCH ADDITIONAL EXCAVATION SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT BE MEASURED FOR PAVEMENT.
10. BELOW THE 'LINE OF NARROW TRENCH LIMIT' THE TRENCH SHOULD NOT BE EXCAVATED BEYOND THE TRENCH WIDTH 'IF' MATERIAL IS LOOSENED OR REMOVED BEYOND THE ABOVE MENTIONED LIMITS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.
11. SHEETING TO BE LEFT IN PLACE SHALL BE USED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. IT SHALL BE LEFT IN PLACE AT A DEPTH NOT LESS THAN TWO (2) FEET BELOW FINISH GRADE UNLESS OTHERWISE REQUIRED BY THE ENGINEER.
12. FOUR FOOT INSIDE DIAMETER MANHOLES SHALL BE USED WITH SEWERS LESS THAN 24 INCHES IN DIAMETER, AND FIVE FOOT INSIDE DIAMETER MANHOLES SHALL BE USED WITH SEWERS EQUAL TO OR GREATER THAN 24 INCHES IN DIAMETER, UNLESS OTHERWISE SPECIFIED.
13. OPENINGS FOR PIPE IN PRECAST MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
14. FORM BRICK INVERTS IN MANHOLES WITH BRICK ON EDGE TO A DEPTH OF 0.8 INSIDE DIAMETER OF PIPE AND FORM A 1 INCH SLOPED BENCH WITH BRICK FLAT. INVERT SHALL BE SLOPED UNIFORMLY BETWEEN INLET AND OUTLET PIPE AND SHALL BE FORMED AND FILLED AS REQUIRED TO DIRECT THE FLOW AS INDICATED AND TO PREVENT DEPOSITION OF SOLIDS.
15. IN PAVED AREAS THE TOP OF THE MANHOLE COVER SHALL BE SET FLUSH WITH THE PAVED SURFACE. IN OTHER AREAS THE TOP OF THE COVER SHALL EXTEND 6 INCHES ABOVE FINISHED GRADE, OR AS SHOWN ON THE DRAWINGS, OR AS REQUIRED BY THE ENGINEER.
16. SEWER CHIMNEY AND HOUSE CONNECTION LOCATIONS ARE SHOWN FOR ESTIMATING PURPOSES, AND ARE APPROXIMATE IN LOCATION. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
17. PROTECTION OF WATER SUPPLIES - WHENEVER A SEWER MUST CROSS UNDER A WATER MAIN, THE SEWER SHALL BE LAD AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER TO PROVIDE THIS SEPARATION OR THE CONTRACTOR SHALL CONSTRUCT THE NEW SEWER OF CLASS 150 PRESSURE PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN. ONE FULL LENGTH OF CLASS 150 PRESSURE PIPE SEWER SHOULD BE CENTERED ON THE WATER MAIN AS MUCH AS POSSIBLE. THE SEWER CONSTRUCTED OF THE PRESSURE PIPE MUST BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.
18. CALCULATION OF PIPE SLOPES IS BASED ON ELEVATION CHANGES DIVIDED BY THE DISTANCE BETWEEN THE OUTSIDE EDGES OF THE MANHOLE WALLS. FOR FOUR FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS FIVE FEET. FOR FIVE FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS SIX FEET. 'N' INDICATES UPSTREAM END OF MANHOLE, 'OUT' INDICATES DOWNSTREAM END OF MANHOLE.
19. ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH NON-SKID STEEL PLATES. STEEL PLATES SHALL BE RECESSED AND COLD PATCHED BETWEEN NOVEMBER 1ST AND APRIL 30TH.
20. REFERENCE ELEVATIONS ARE ASSUMED FOR EACH LOCATION.
21. WATER SERVICE CONNECTIONS AND GAS SERVICE CONNECTIONS HAVE NOT BEEN INCLUDED ON THE PLAN VIEWS OR PROFILE VIEWS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF WATER SERVICE CONNECTIONS AND GAS SERVICE CONNECTIONS AS NECESSARY TO PERFORM THE WORK.
22. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC TO ALL STREETS THROUGHOUT THE DURATION OF THE PROJECT.
23. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF MASSACHUSETTS GENERAL LAW CHAPTER 82A, TRENCH EXCAVATION AND SAFETY REQUIREMENTS, TO PREVENT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES.
24. CONTRACTOR SHALL MEET WITH NEWTON POLICE DEPARTMENT PRIOR TO EXCAVATION WORK. ROAD CLOSURES AND DETOURS TO BE AS REQUIRED BY NEWTON POLICE DEPARTMENT.
25. CONTRACTOR SHALL NOTIFY RESIDENTS IN PROXIMITY TO EXCAVATIONS, AND SHALL POST NO PARKING SIGNS, AS REQUIRED BY NEWTON POLICE DEPARTMENT.
26. PAVEMENT REPLACEMENT RELATED TO BUILDING CONNECTIONS SHALL BE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE SEPARATELY MEASURED FOR PAVEMENT.

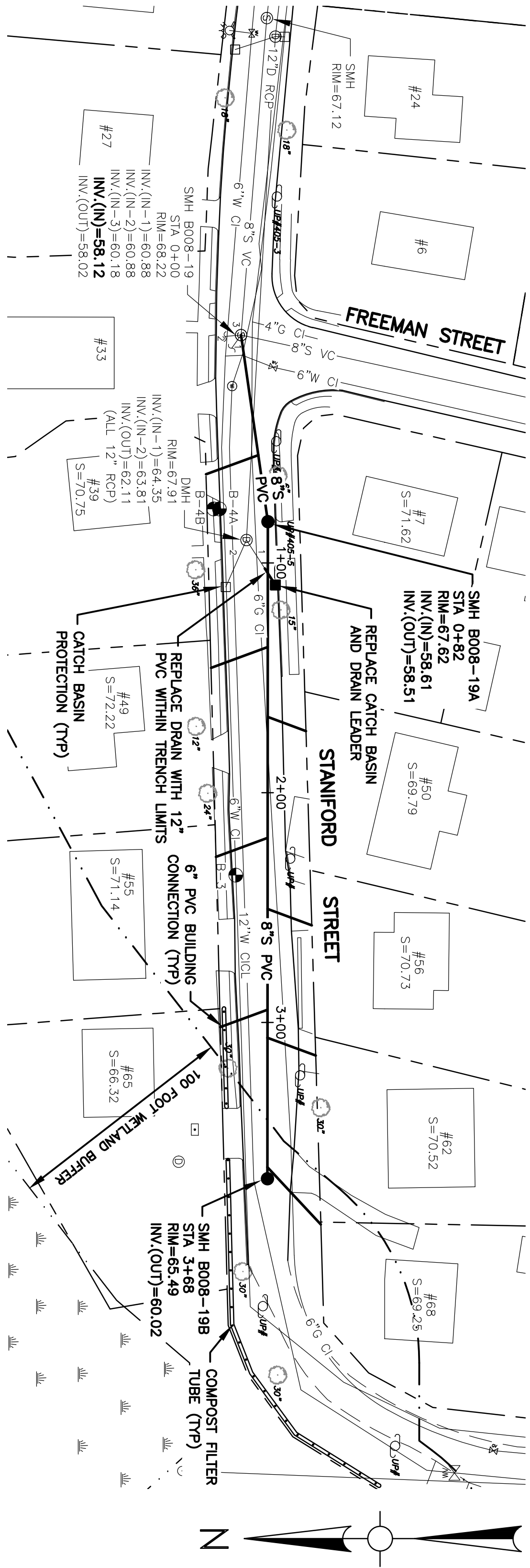
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STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP							
ABBREVIATIONS, NOTES, AND LEGEND							
FILE NO.	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR.BY	DSN.BY	CHK.BY
-	G-1	AS NOTED		2180692	RWS	MJD	PAT
					APP.BY		DME



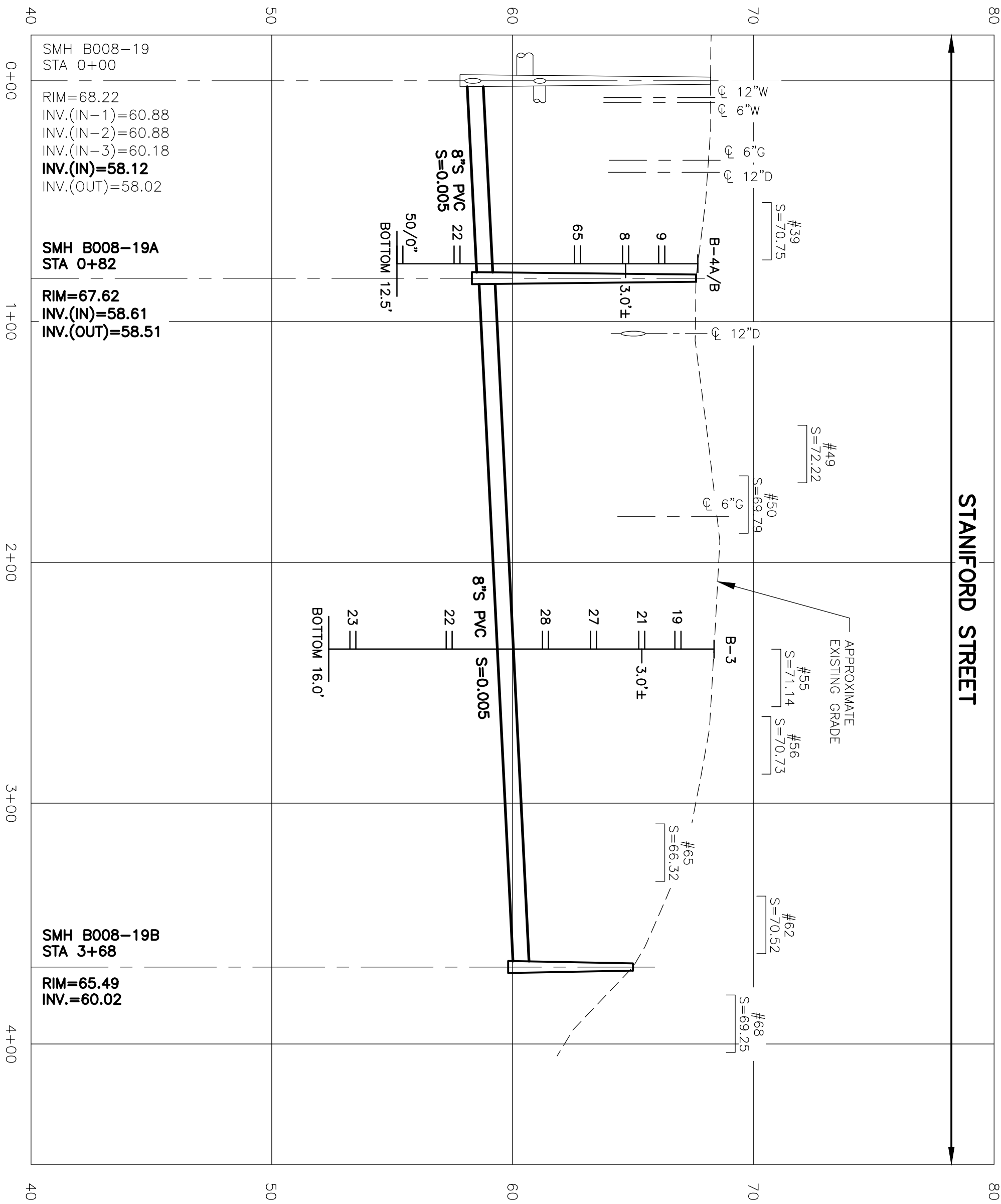
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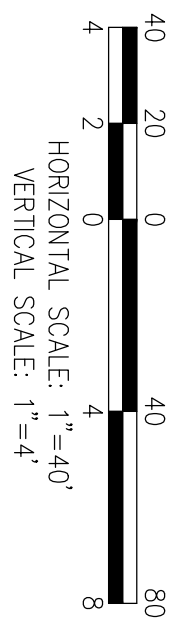


NOTE:
1. SMH B008-19 IS A BRICK MANHOLE.

PLAN
SCALE: 1" = 40'

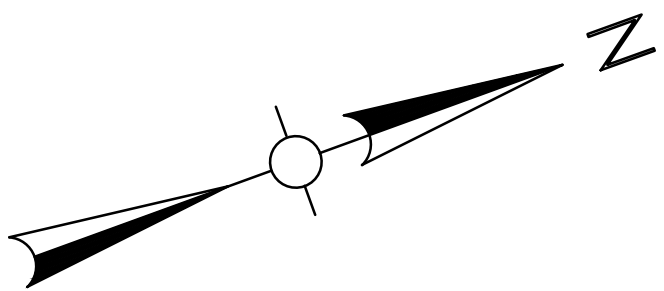
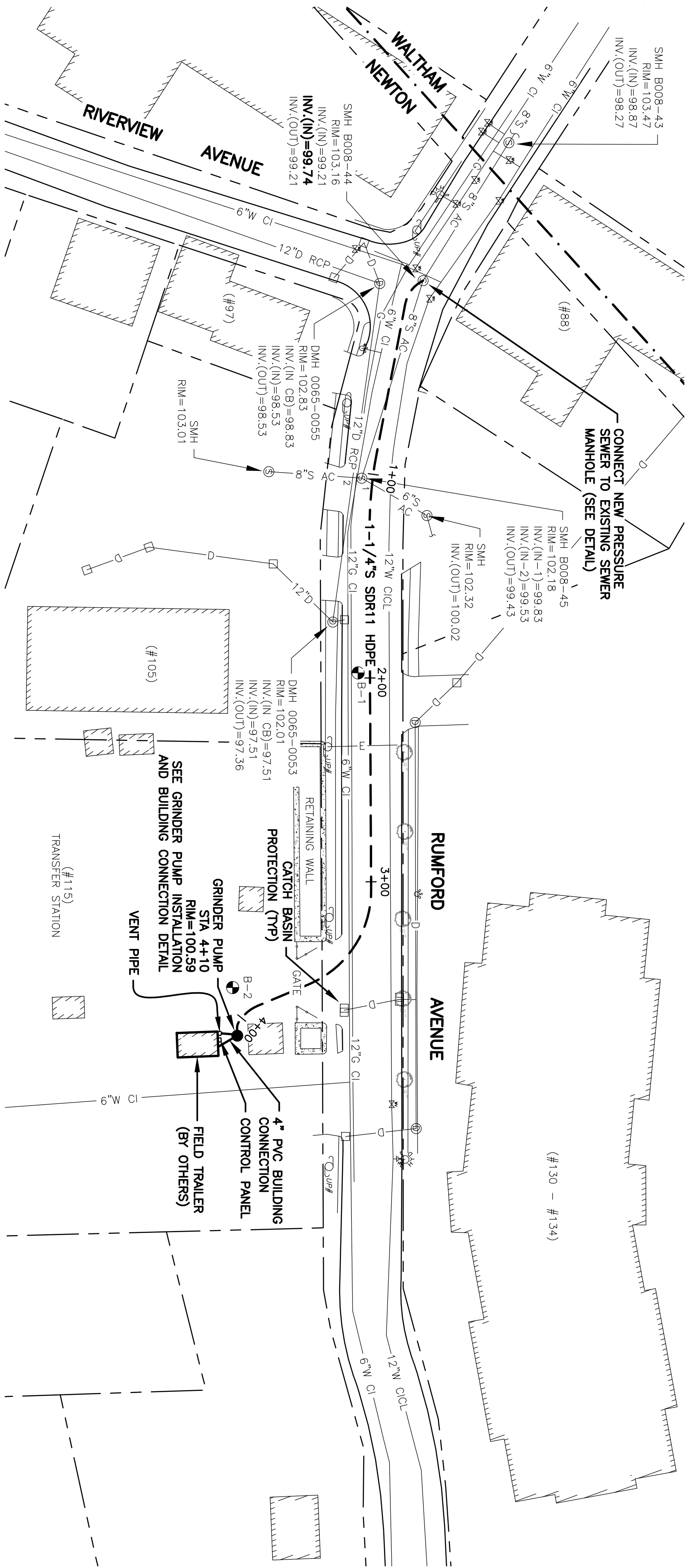


PROFILE
SCALE: 1"=40' HORIZ
1"=4' VERT



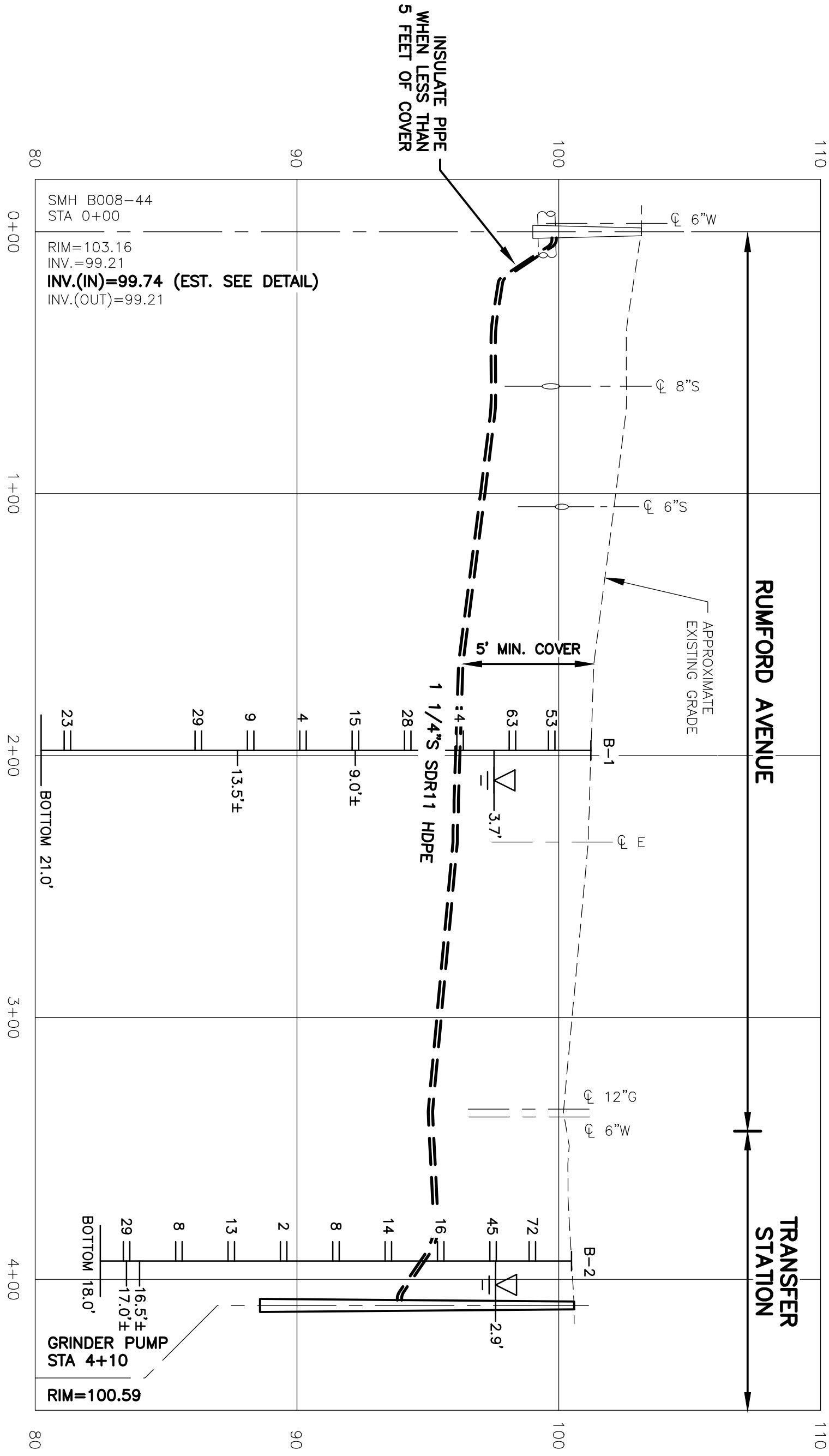
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		STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP													
STANFORD STREET PLAN AND PROFILE															
FILE NO.	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR.BY	DSN.BY	CHK.BY	APP.BY	No. Date Dr.By Ck.By App.By Description						
-	STANFORD ST	AS NOTED		2180692	RWS	MJD	PAT	DME	A P P R O V E D						
									REGISTERED PROFESSIONAL ENGINEER DATE						

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- NOTE:
1. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH THE CITY OF NEWTON AND FIELD TRAILER CONTRACTOR.

PLAN
SCALE: 1" = 40'

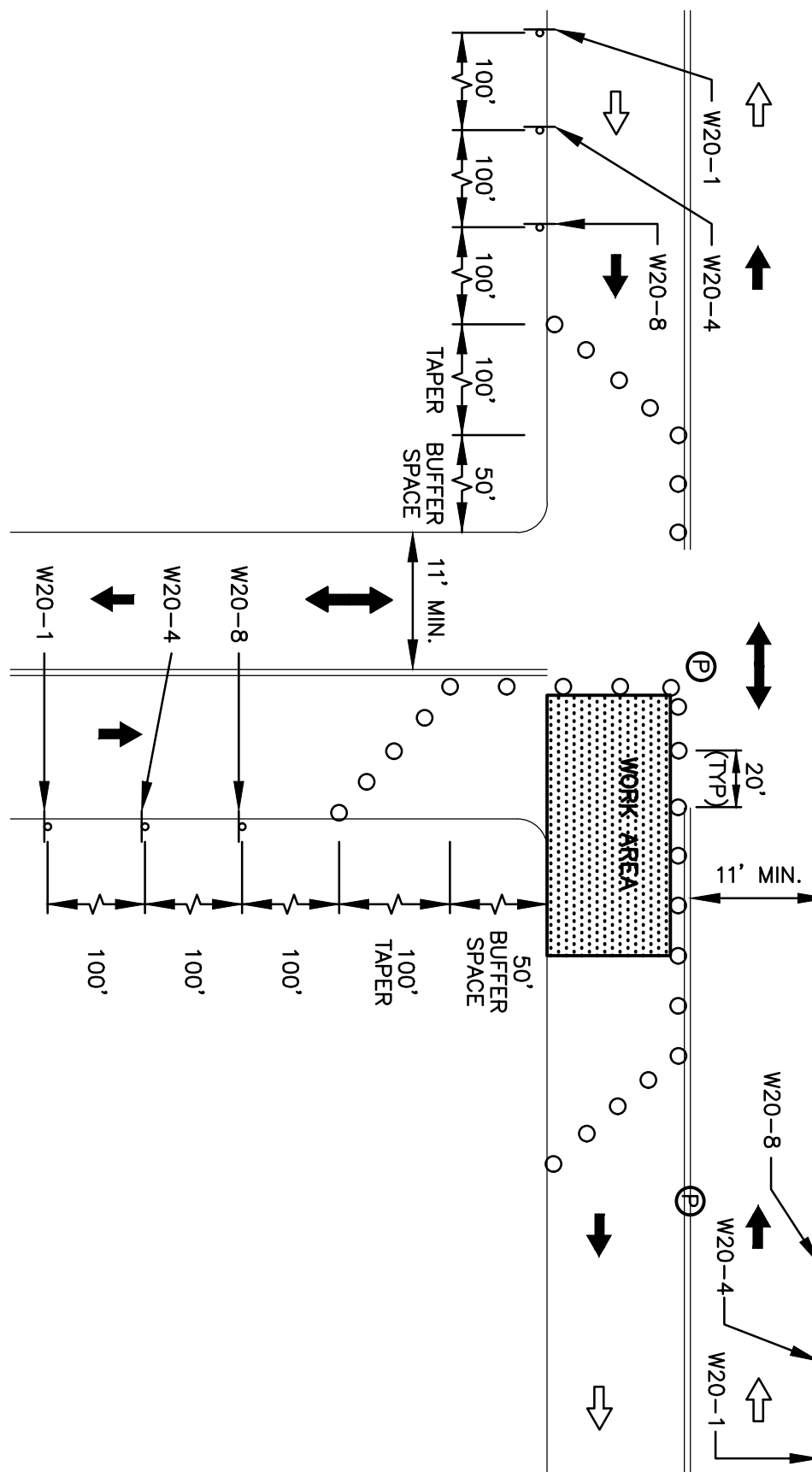
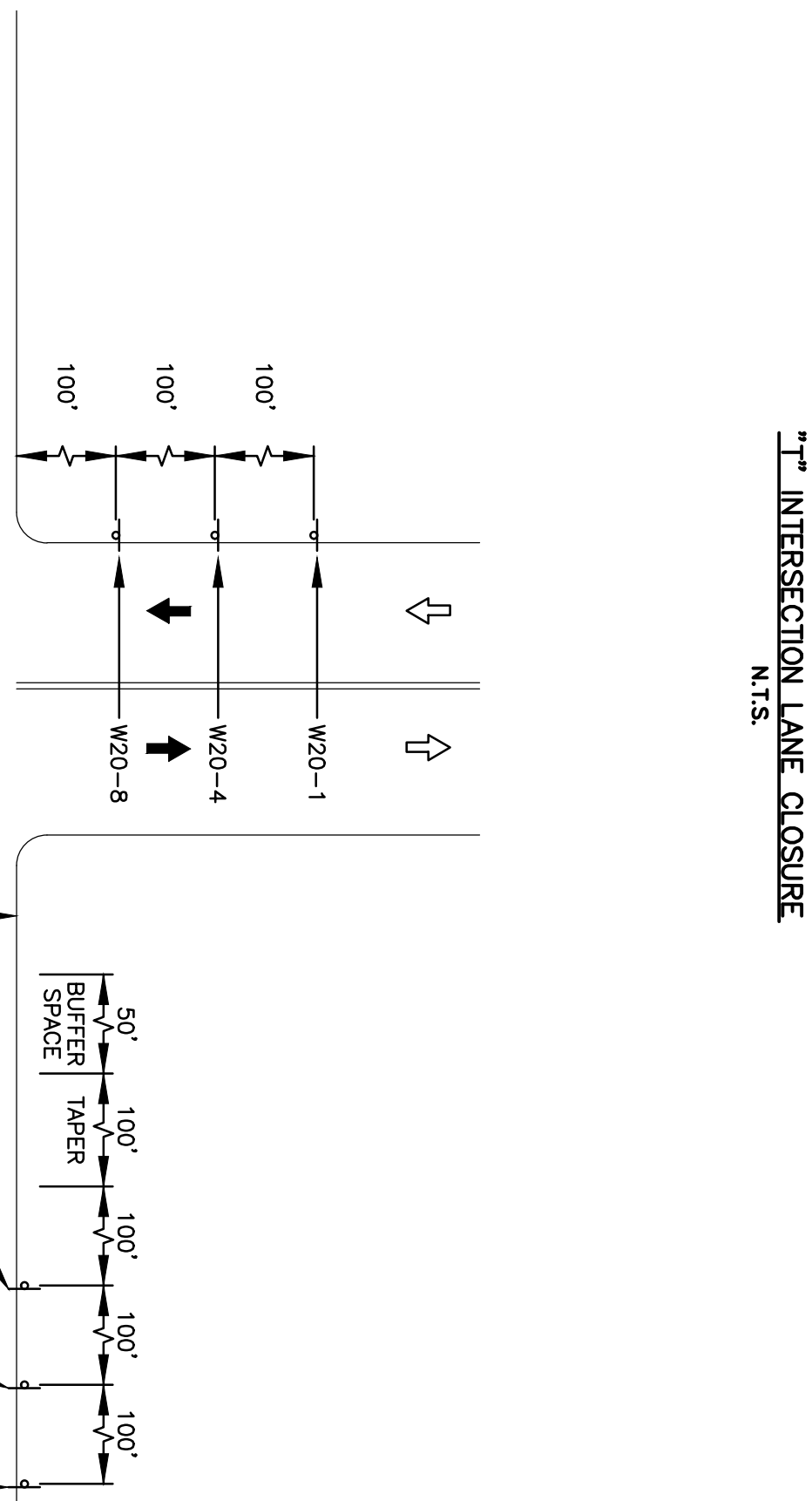
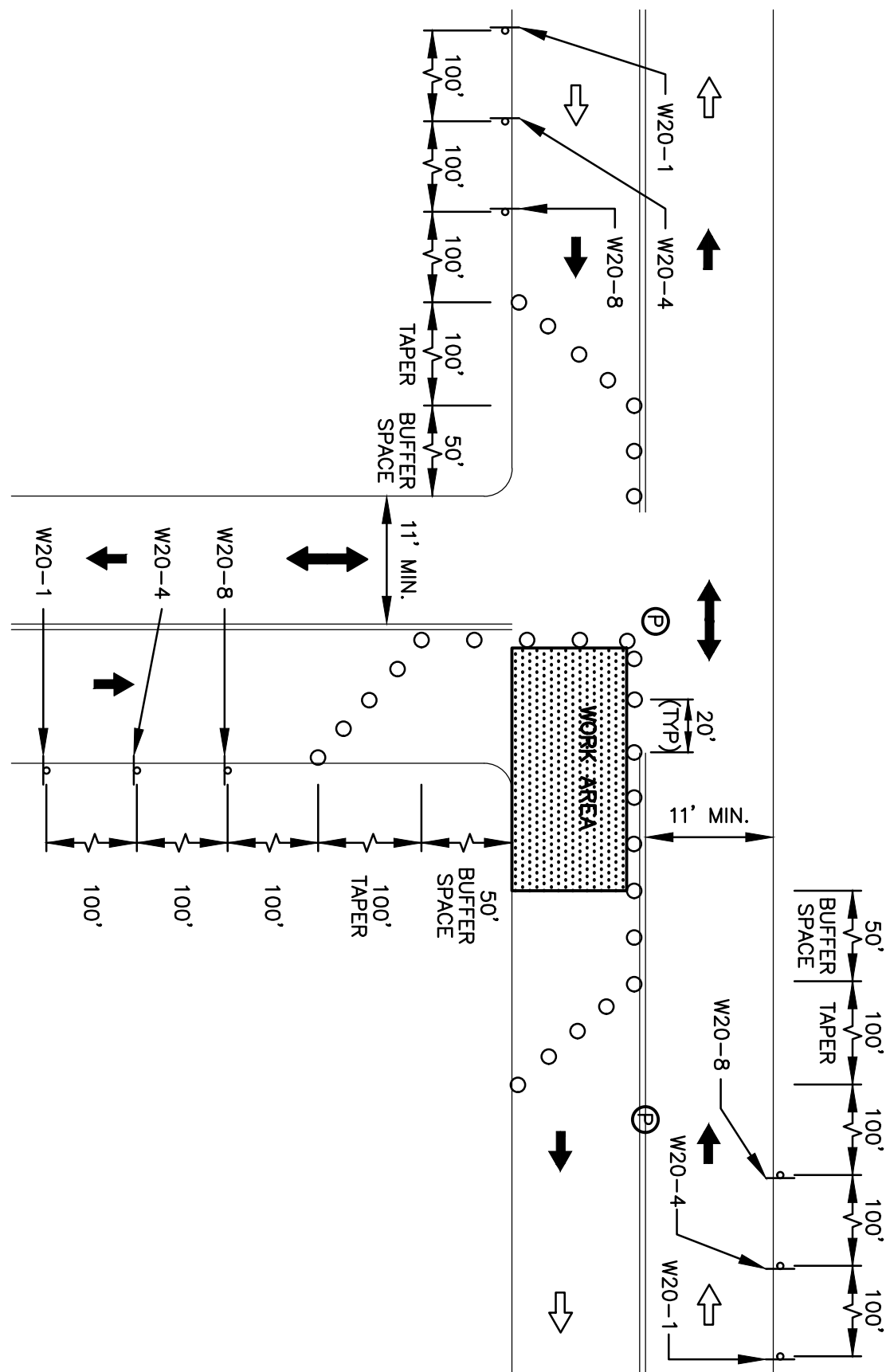
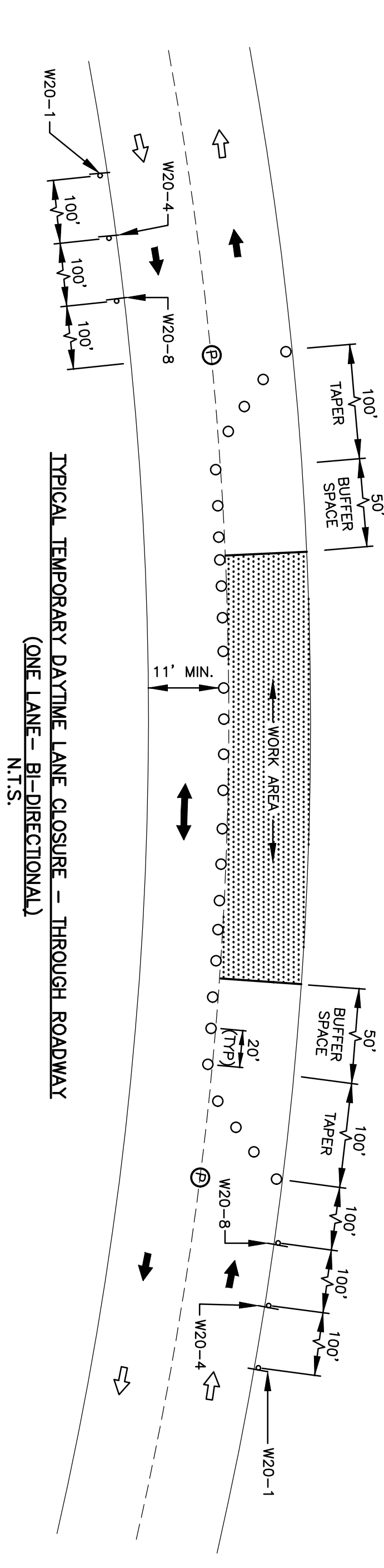
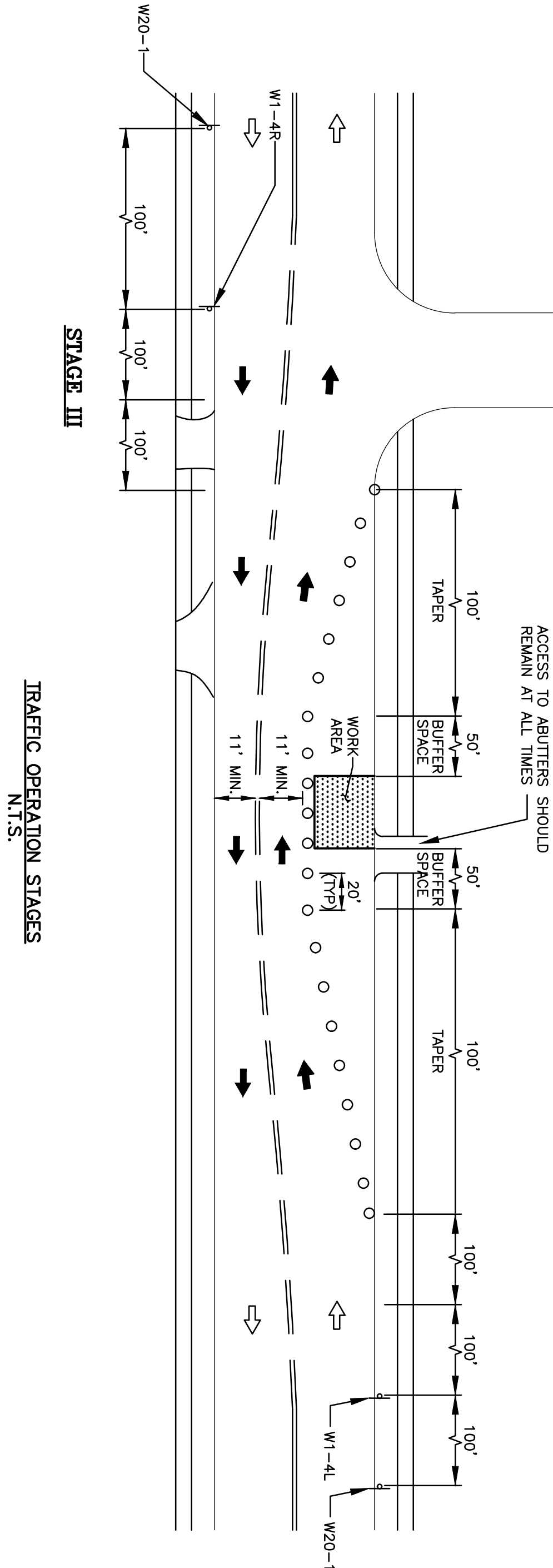
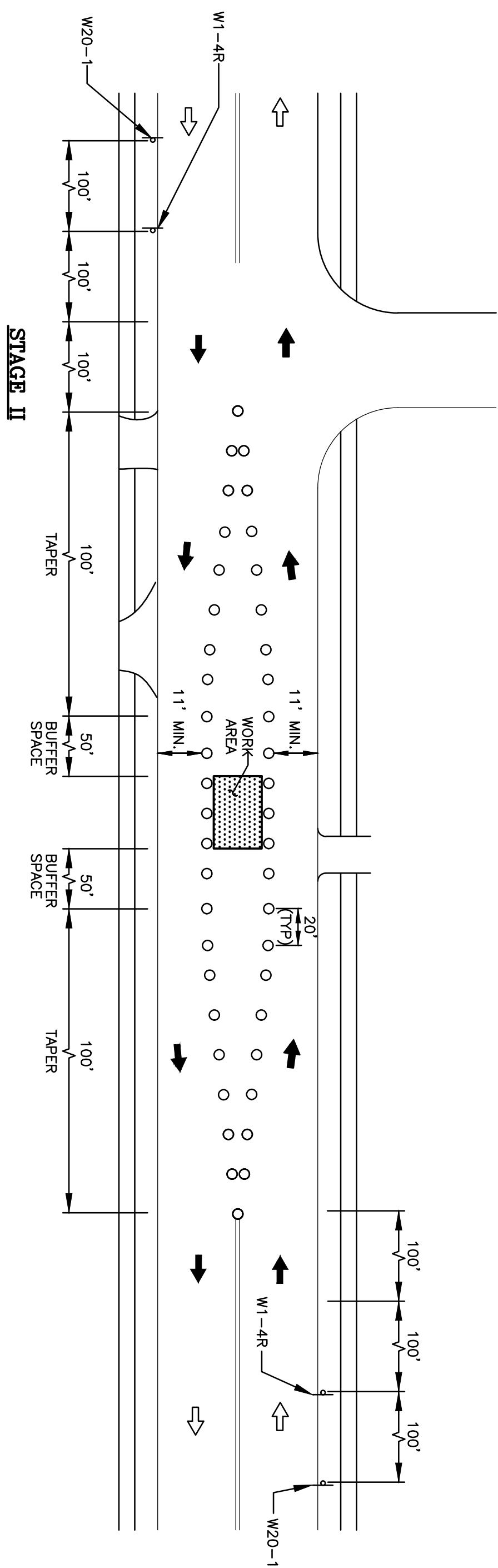
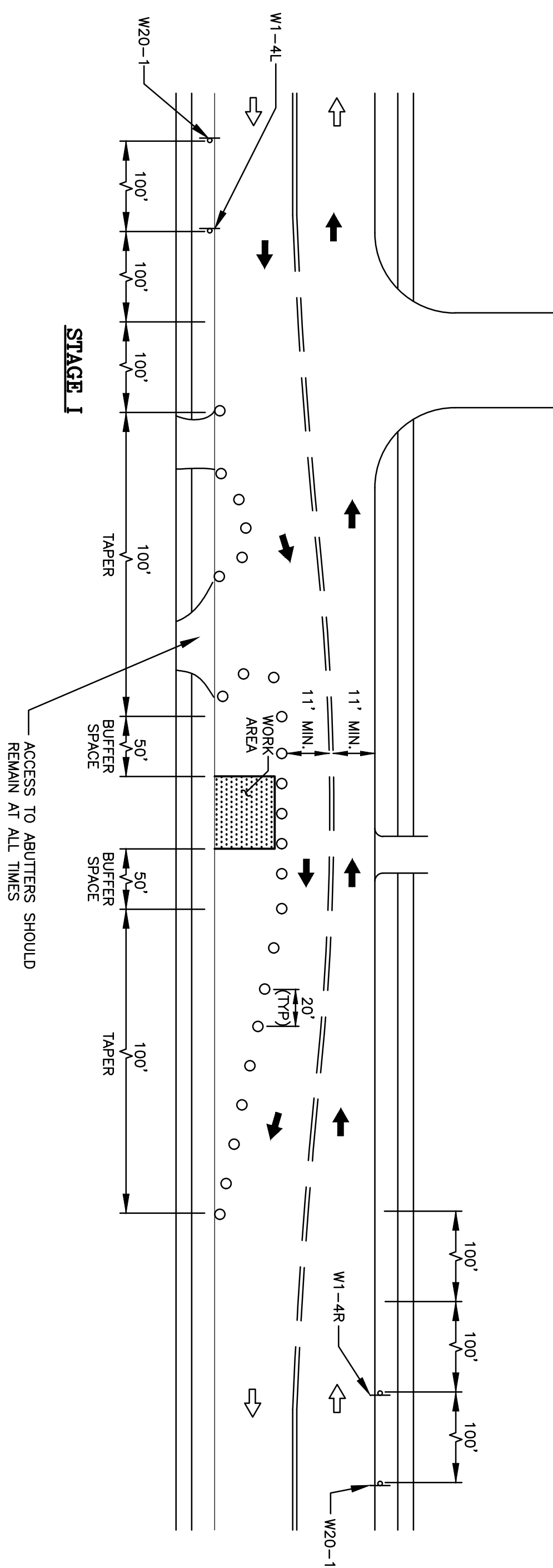


PROFILE
SCALE: 1"=40' HORIZ
1"=4' VERT



	CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS																								
	STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP																								
	RUMFORD AVENUE PLAN AND PROFILE																								
FILE NO.	CADD NO.	SCALE: AS NOTED	CONTRACT:	JOB NO. 2180692	DR.BY RWS	DSN.BY MJD	CHK.BY PAT	APP.BY DME	<table><tr><td>No.</td><td>Date</td><td>Dr.By</td><td>Ck.By</td><td>App.By</td><td>Description</td></tr><tr><td></td><td></td><td>A</td><td>P</td><td>P</td><td>R</td><td>O</td><td>V</td><td>E</td><td>D</td></tr></table>	No.	Date	Dr.By	Ck.By	App.By	Description			A	P	P	R	O	V	E	D
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TEMPORARY TRAFFIC SIGN SUMMARY			
MUTCD CODE	SIZE OF SIGN	WIDTH	HEIGHT
W1-4L	30"	30"	30"
W1-4R	30"	30"	30"
W20-1	36"	36"	36"
W20-4	36"	36"	36"
W20-8	36"	36"	36"
G20-2	36"	36"	18"

NOTE:

1. FOR THE LATEST SPECIFICATION ON TEXT DIMENSIONS AND COLOR, CONTRACTOR SHALL REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION).

LEGEND:

- REFLECTORIZED DRUM
- ➡ TRAFFIC FLOW DURING CONSTRUCTION
- ⇄ NORMAL TRAFFIC FLOW
- Ⓢ POLICE DETAIL OFFICER
- Ⓟ CONSTRUCTION SIGN
- WORK AREA

GENERAL NOTES:

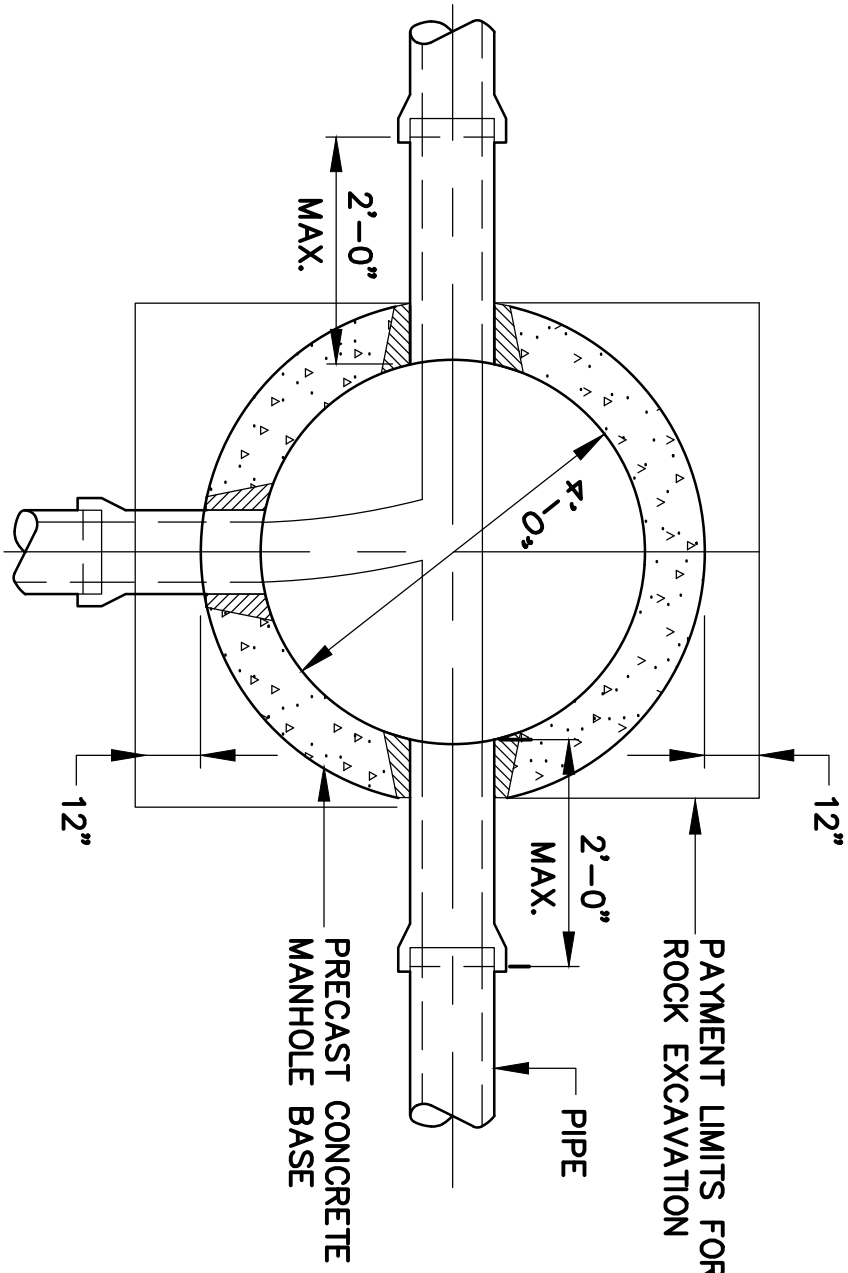
1. PLACEMENT OF ALL CONSTRUCTION SIGNS, DRUMS, BARRICADES, TRAFFIC DEVICES AND THE SHAPE, SIZE & COLOR OF ALL TEMPORARY TRAFFIC SIGNS SHALL CONFORM WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ADVANCE WARNING SIGN PLACEMENT AND TAPER LENGTH TO BE ADJUSTED ACCORDING TO STREET CONDITIONS AND DRIVEWAY OPENINGS.
3. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES.
4. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
5. NONESSENTIAL TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS.
6. PEDESTRIANS SHALL BE PROVIDED WITH ACCESS AND SAFE PASSAGE THROUGH THE TEMPORARY TRAFFIC CONTROL ZONE AT ALL TIMES.
7. W20-8 SHALL BE TAKEN DOWN OR COVERED AFTER EACH WORKING DAY OR WHEN OTHERWISE NOT APPLICABLE, OR WHEN POLICE OFFICERS ARE NOT PRESENT TO DIRECT TRAFFIC.
8. ADVISORY SPEED PLATES (W13-1 - SEE CURRENT EDITION OF MUTCD) SHALL BE USED IF APPLICABLE AND AS REQUIRED BY THE ENGINEER.
9. NO DIFFERENCE IN ROADWAY LANE ELEVATION WILL BE ALLOWED AT THE END OF THE WORK DAY.
10. SAMPLE TRAFFIC PLANS INCLUDED ON THIS PLAN SHEET ARE BASED ON AN URBAN (LOW SPEED) ROAD TYPE FROM THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
11. DASHED LINES SHOW LANE DESIGNATIONS TO BE USED DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL SUBMIT ANY REVISIONS TO THE CONSTRUCTION ZONE SAFETY PLAN TO THE ENGINEER FOR APPROVAL.
13. THIS CONSTRUCTION ZONE SAFETY PLAN SHALL NOT RELIEVE THE CONTRACTOR OF HIS SOLE RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY.

No.	Date	Dr.By	Ck.By	App.By	Description
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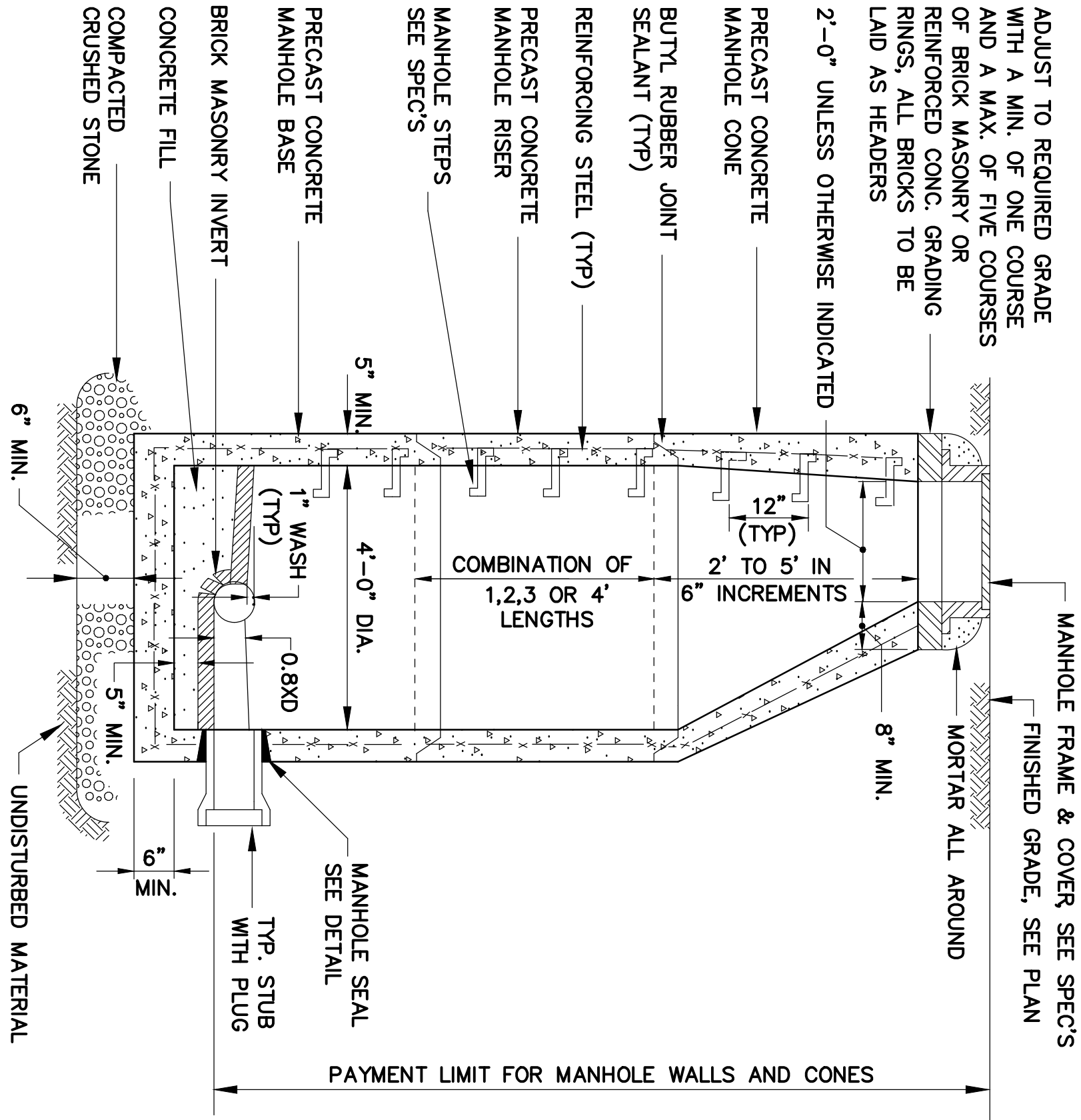
CONSTRUCTION ZONE SAFETY PLAN

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CONSTRUCTION ZONE SAFETY PLAN						
FILE NO.	CADD NO.	SCALE:	CONTRACT:	JOB NO.	DR.BY	DSN.BY
-	CZS PLAN	AS NOTED		2180692	RWS	MJD
CHK.BY	APP.BY					
PAT	DME					

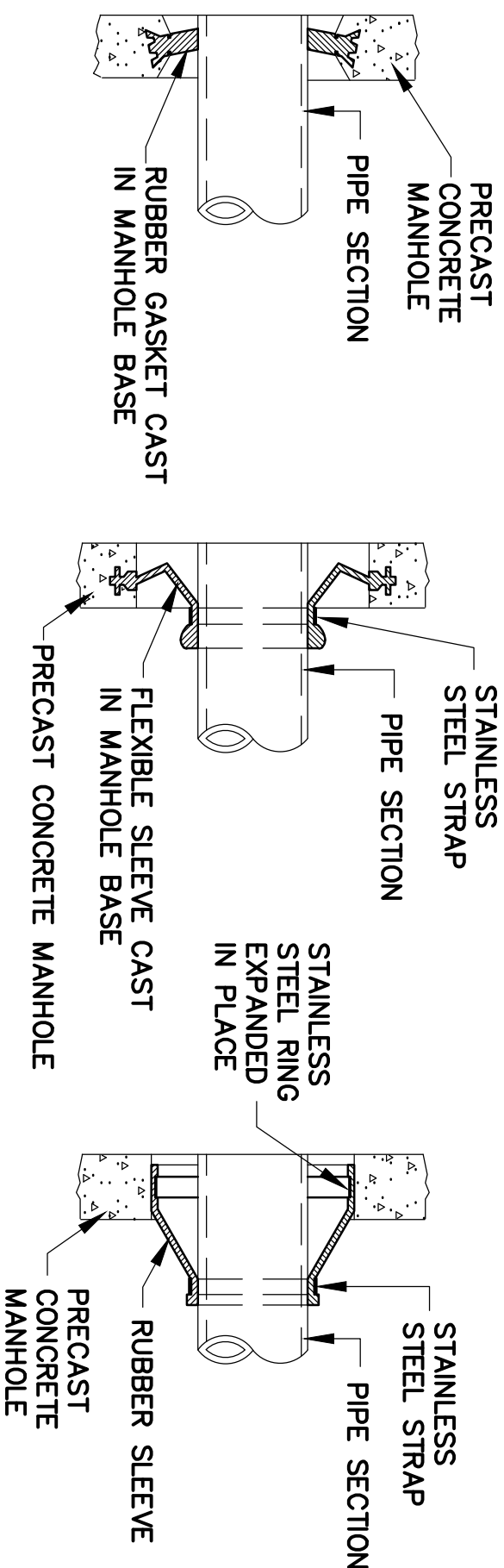
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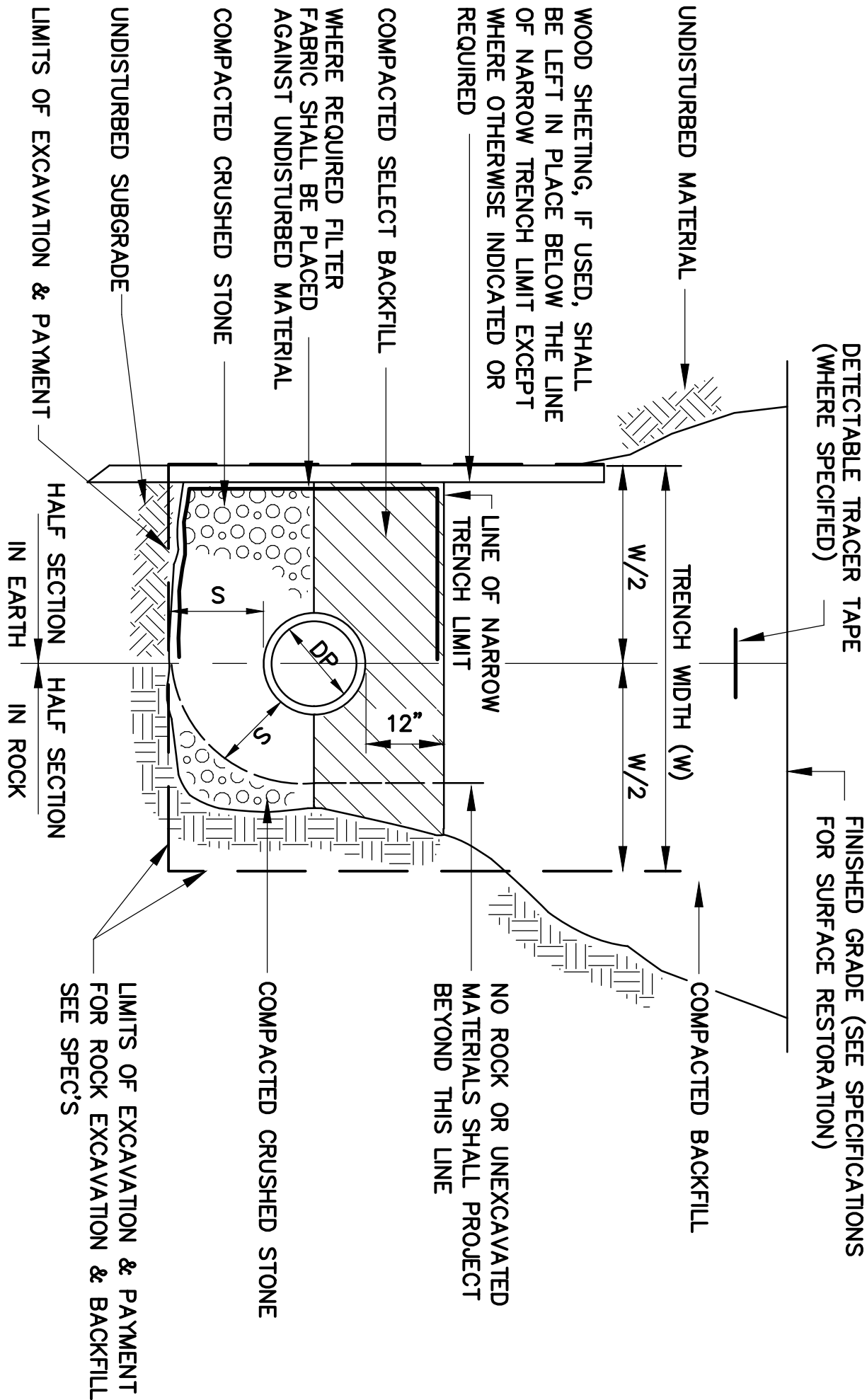
4'-0" DIA. MANHOLE PLAN
N.T.S.



4'-0" DIA. PRECAST CONCRETE MANHOLE DETAIL
N.T.S.

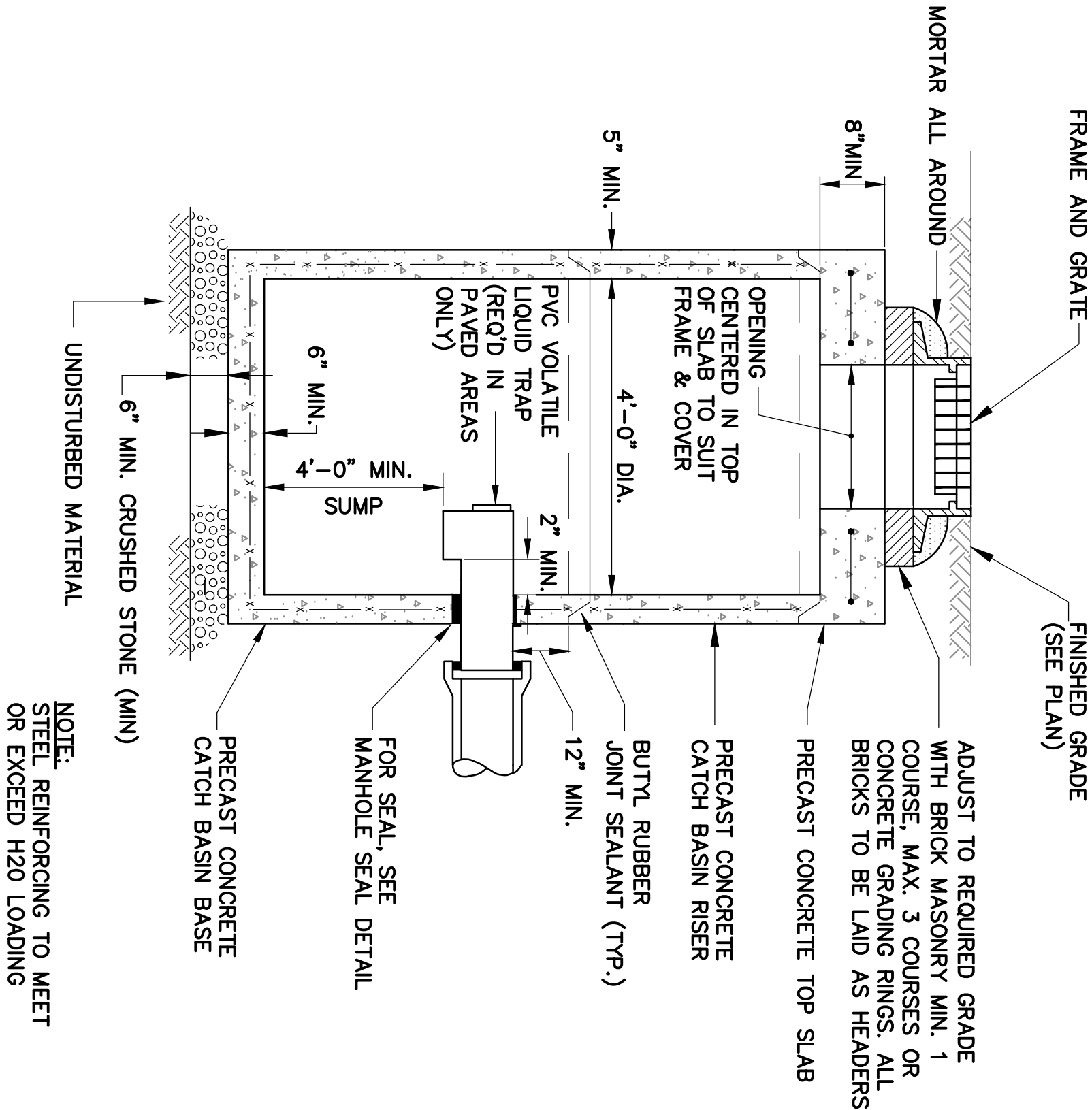


MANHOLE SEAL DETAILS
N.T.S.

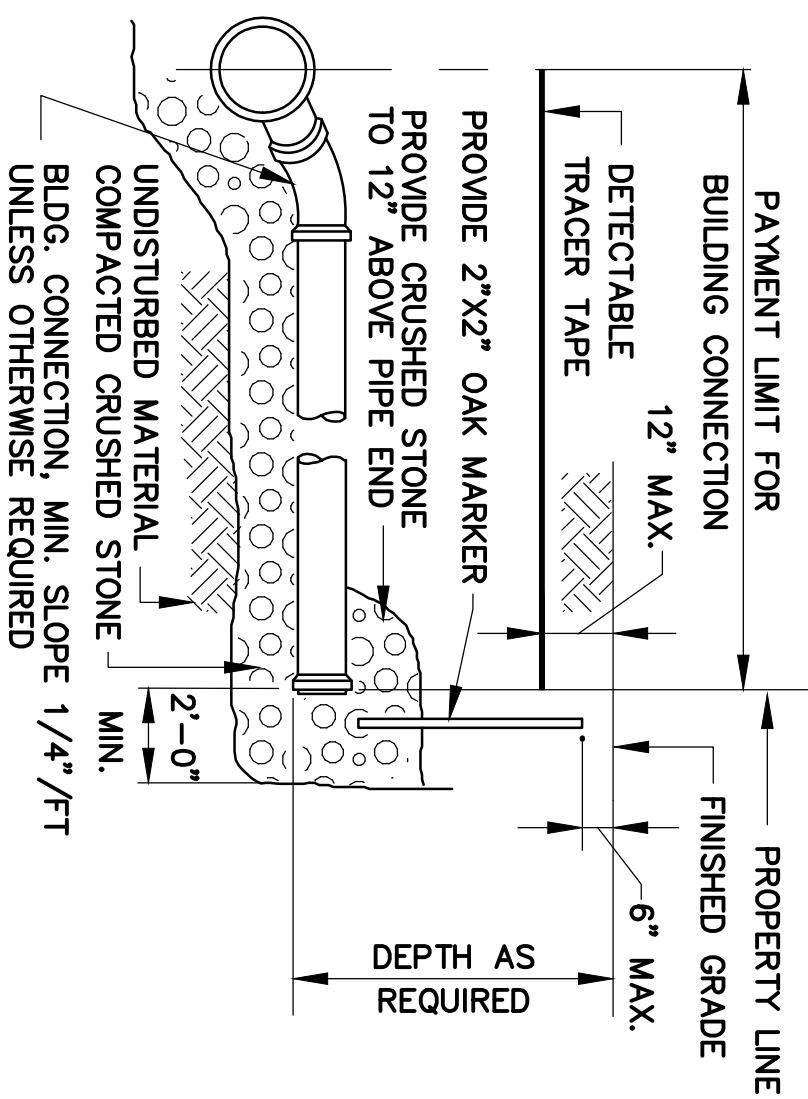
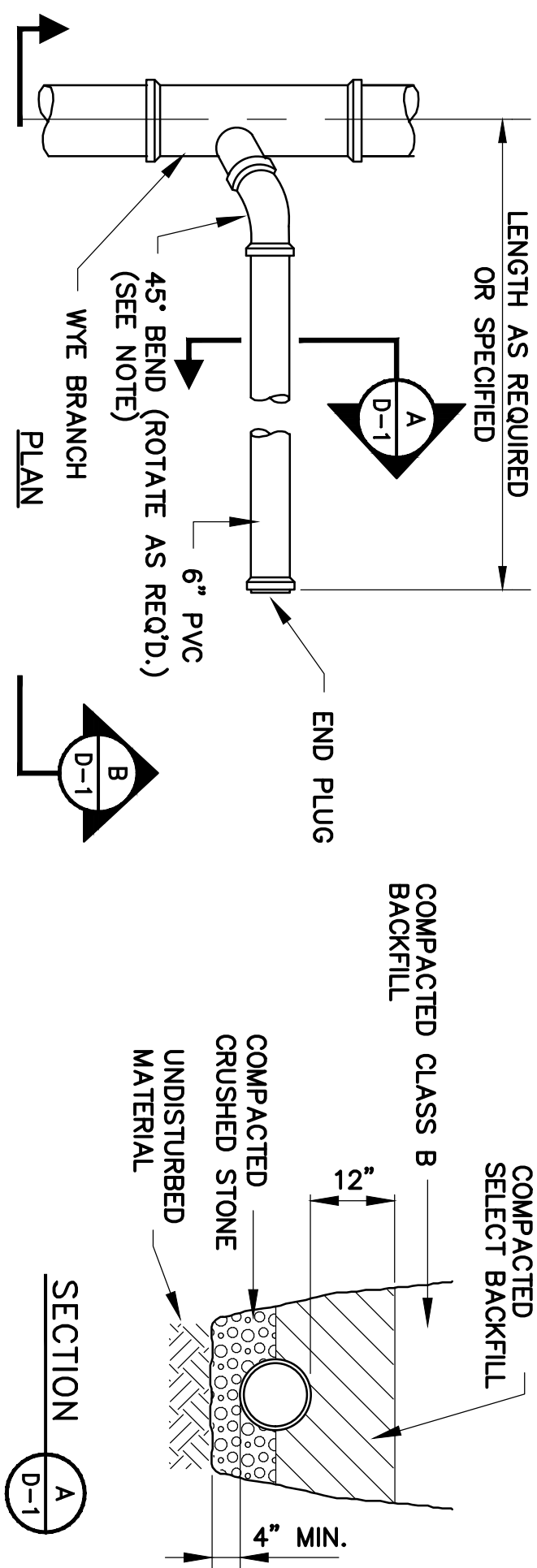


DEPTH TO INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) (W)	MINIMUM CLEARANCE (S)
0-12'	TO 18"	5'	6"
0-12'	21"-24"	5'	7'-1/2"
OVER 12'	TO 18"	7'	6"
OVER 12'	21"-24"	7'	7'-1/2"

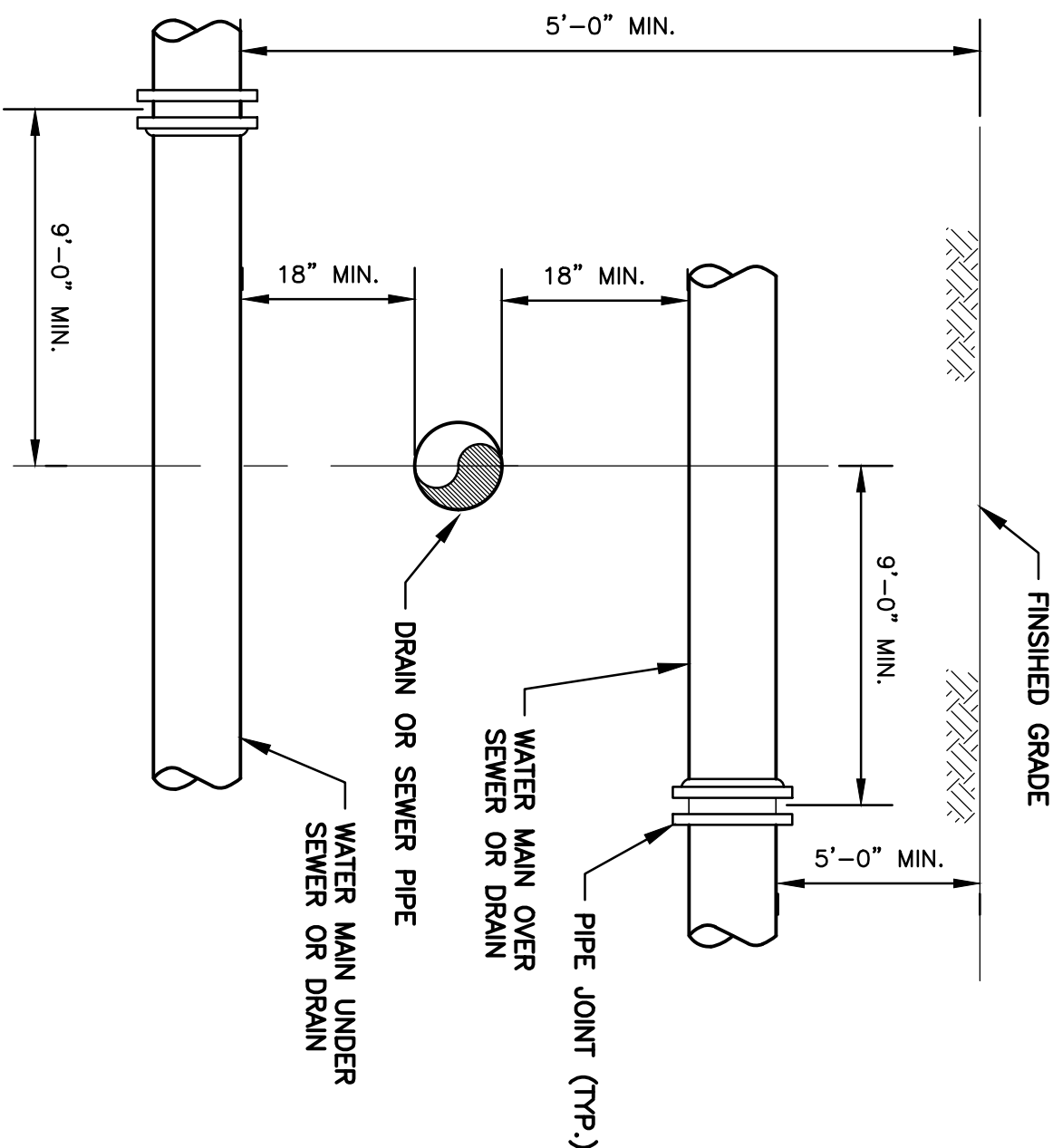
TABLE A



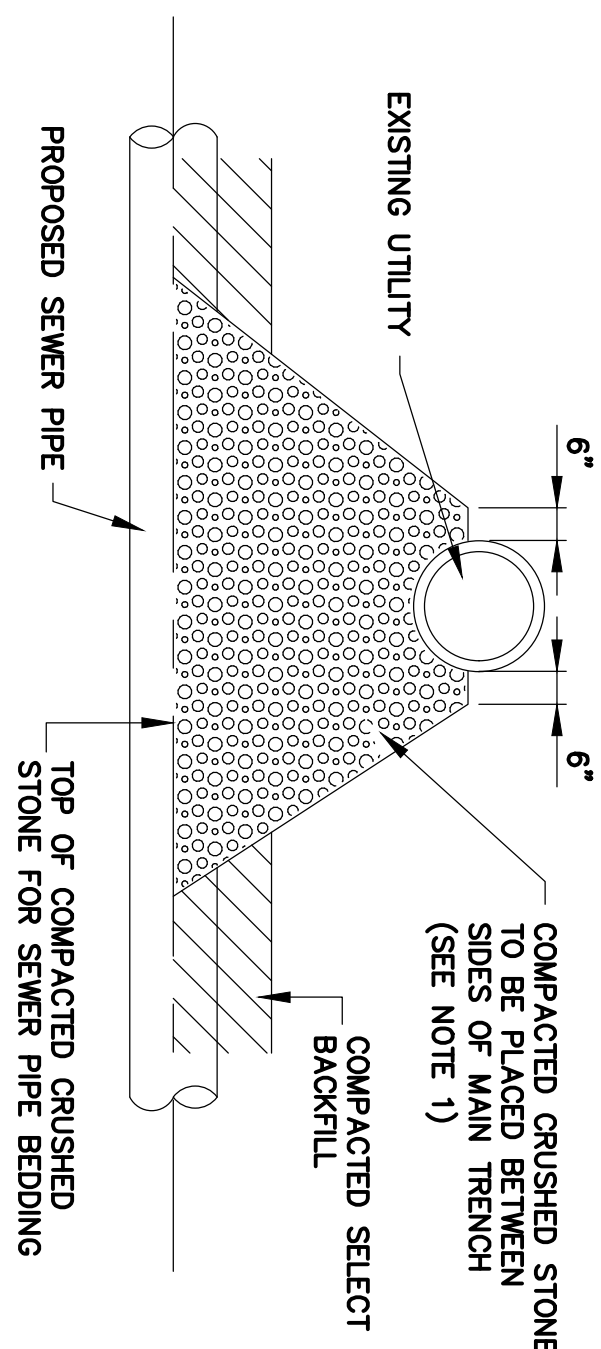
PRECAST CATCH BASIN DETAIL
N.T.S.



TYPICAL BUILDING CONNECTION DETAIL
N.T.S.



SEWER OR DRAIN CROSSING DETAIL
N.T.S.



UTILITY CROSSING DETAIL
N.T.S.

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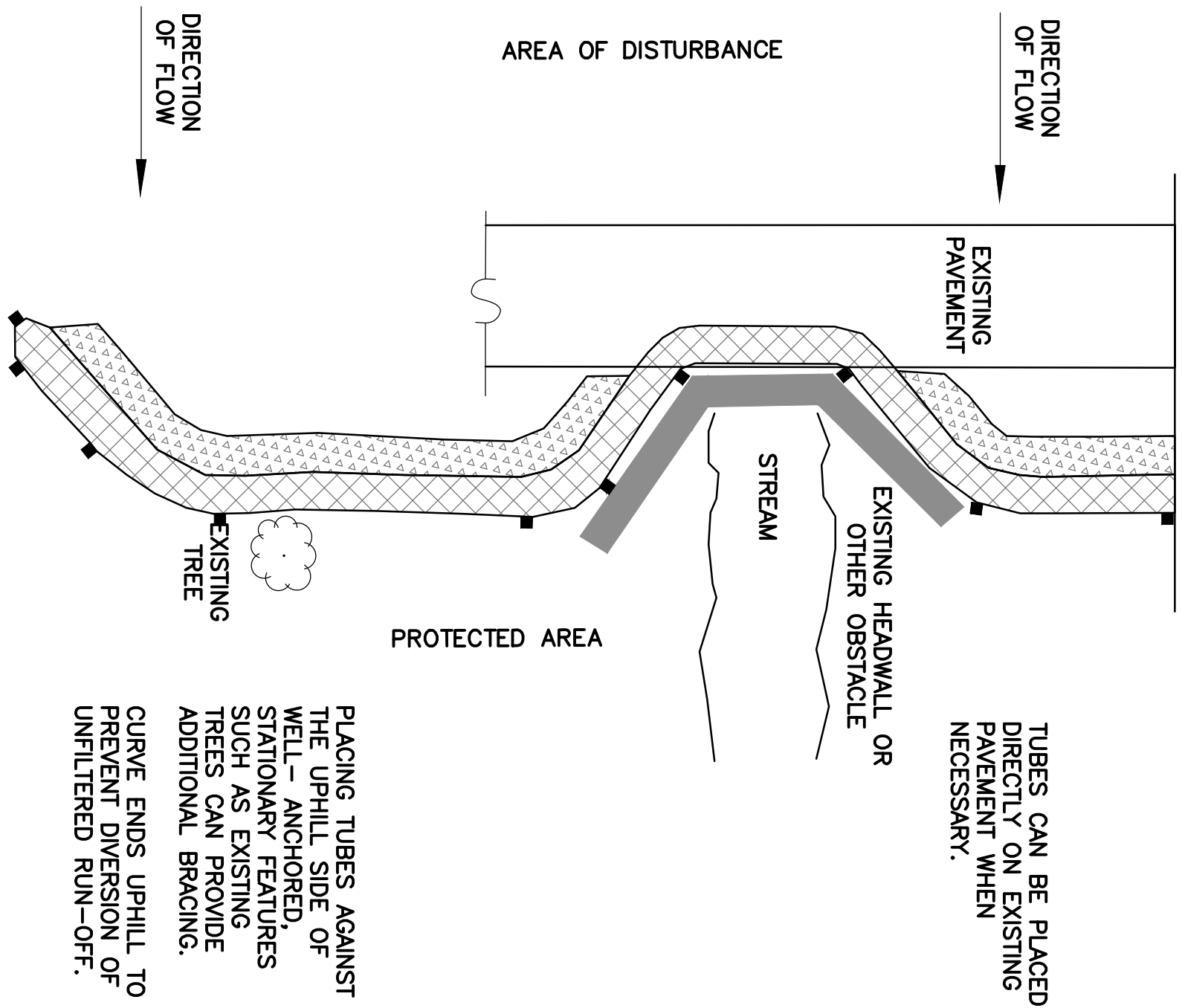
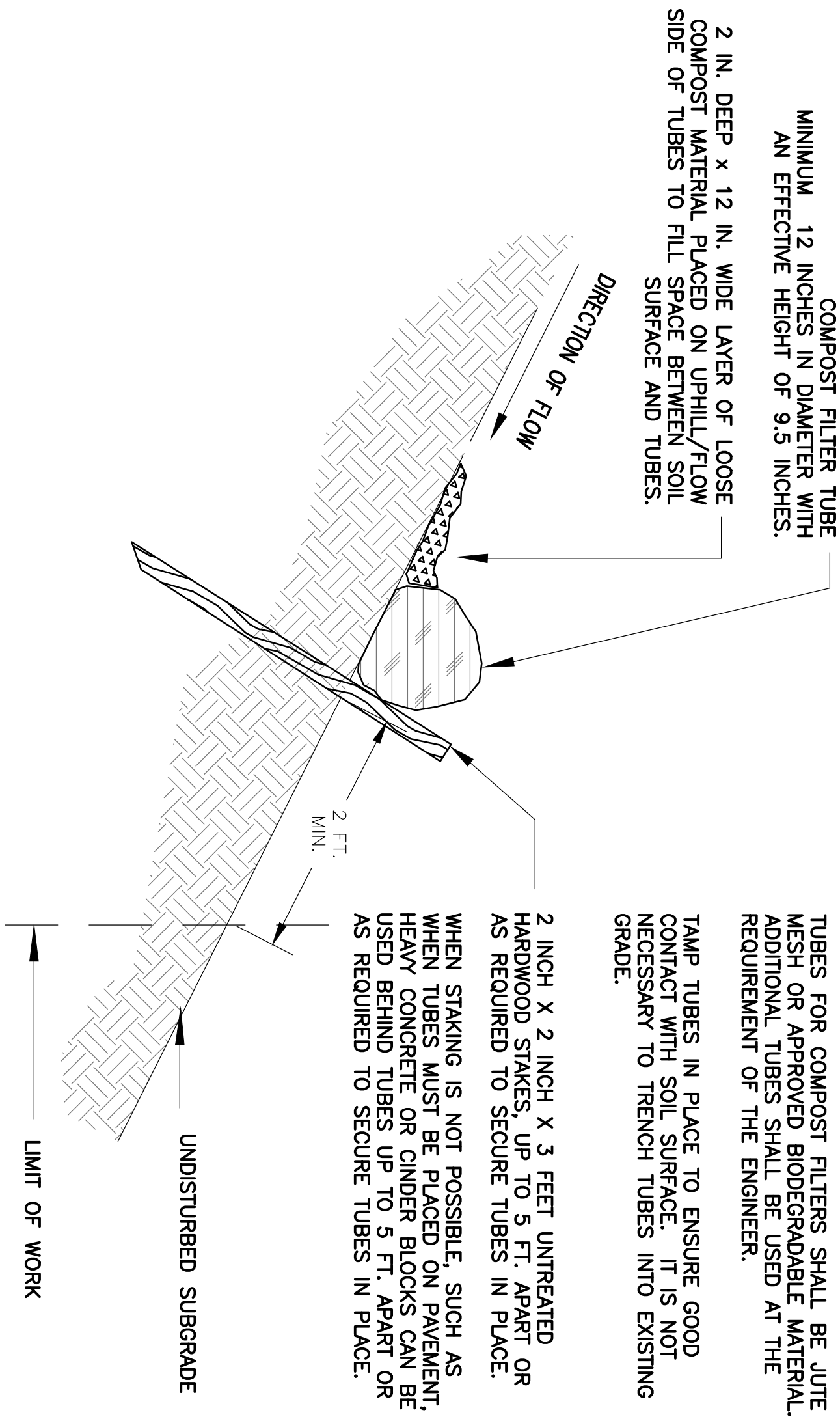
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STANIFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP

DETAILS I

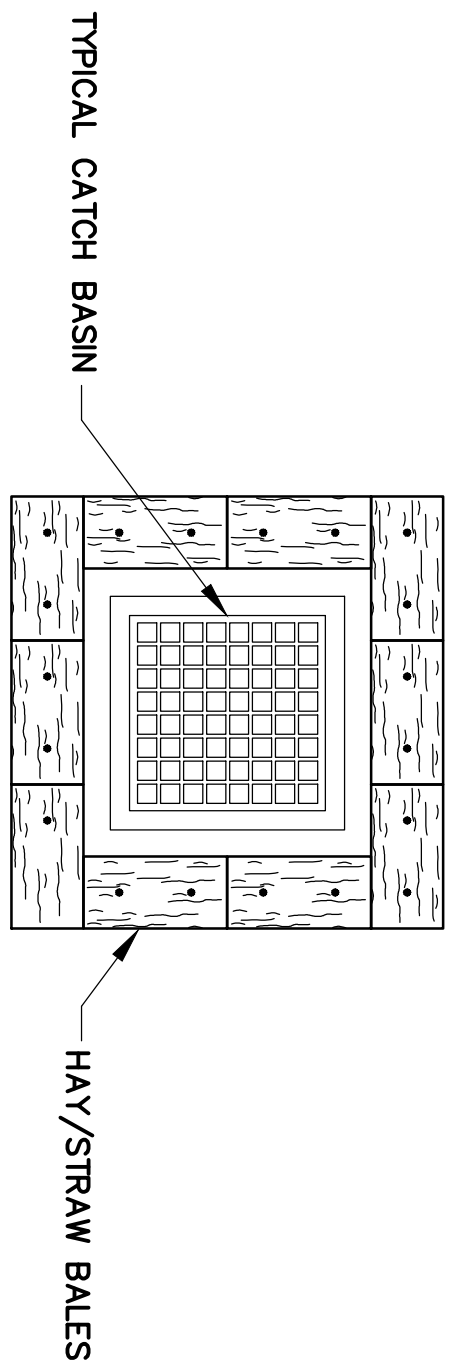
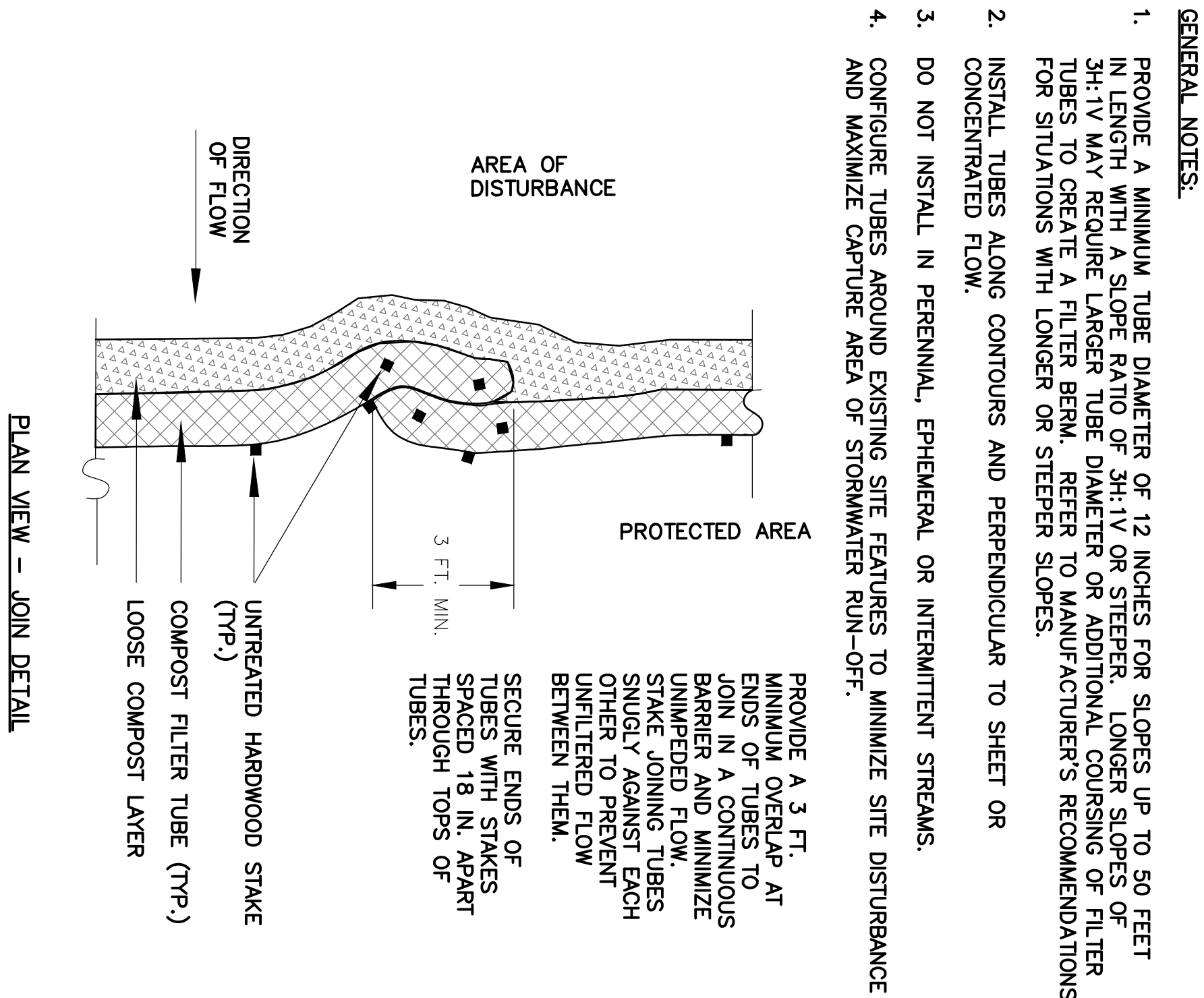
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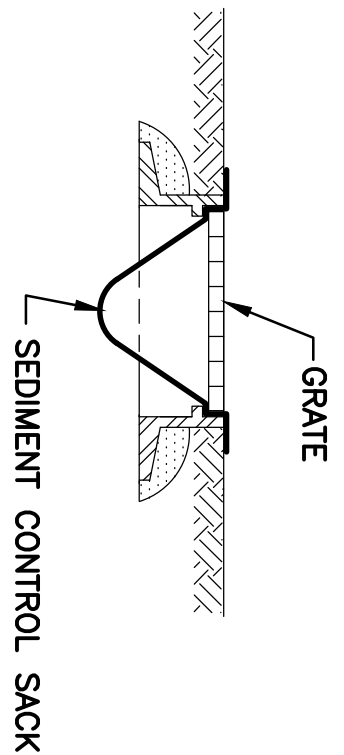
SINGLE COMPOST FILTER TUBE DETAIL

PLAN VIEW
NOT TO SCALE



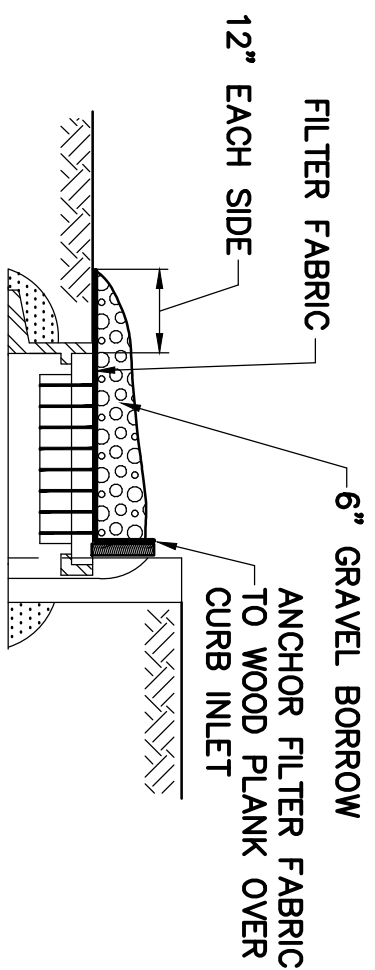
CATCH BASIN PROTECTION DETAIL

N.T.S.



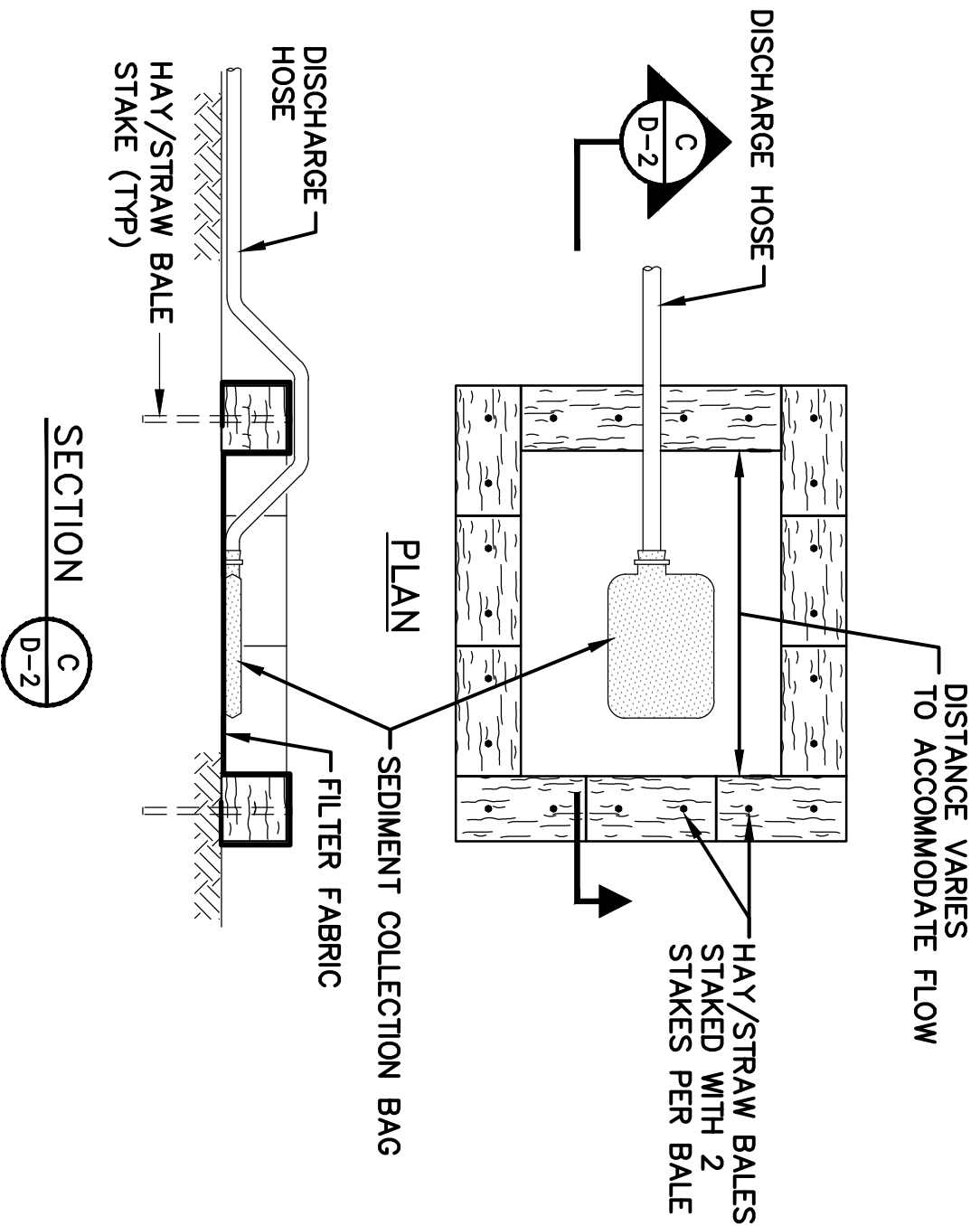
CATCH BASIN PROTECTION DETAIL

N.T.S.



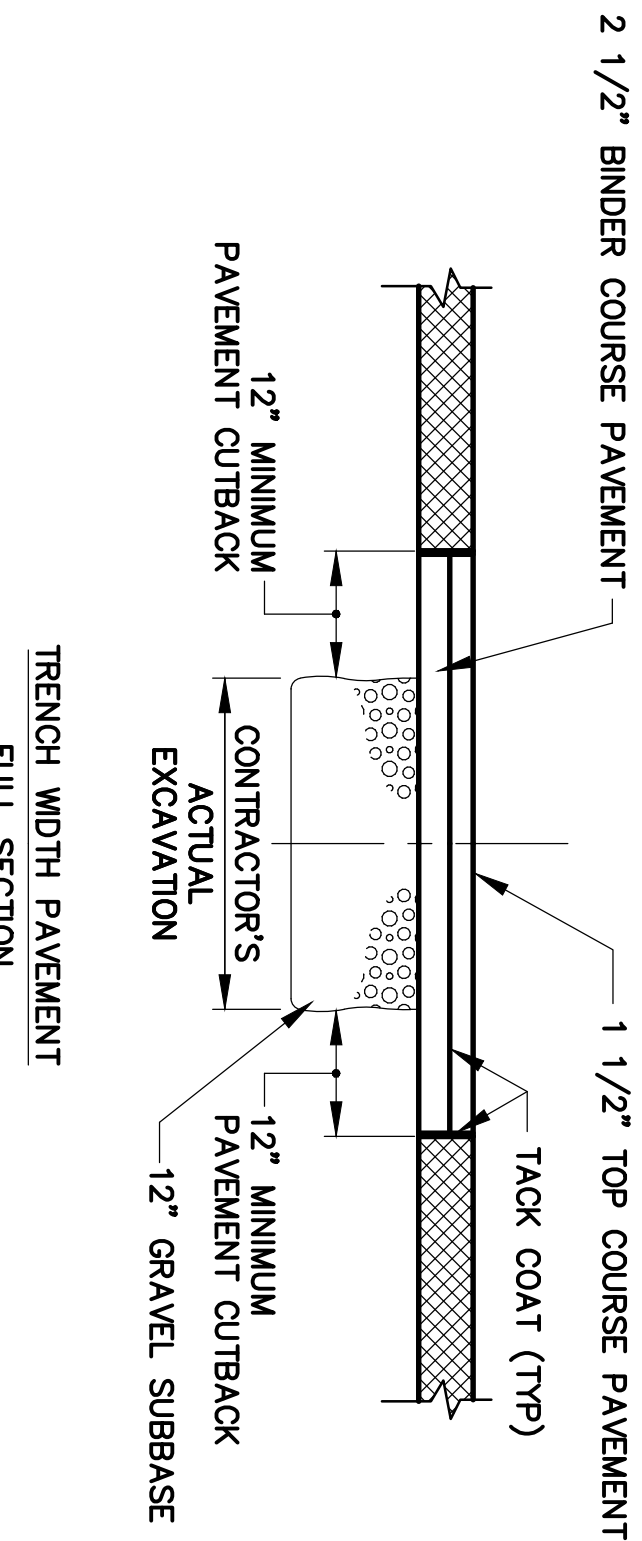
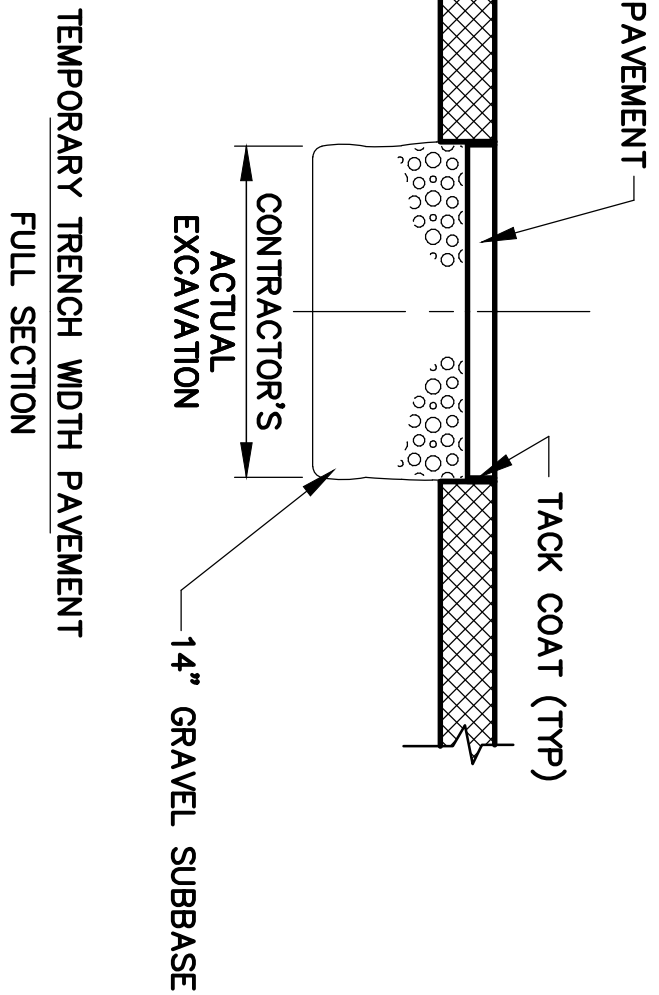
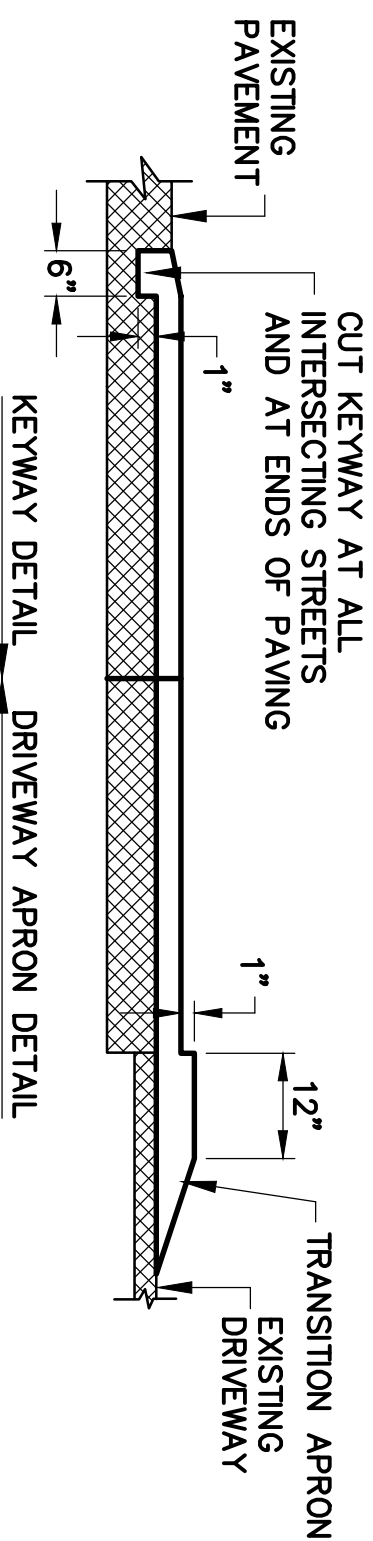
CATCH BASIN INLET PROTECTION DETAIL

N.T.S.



DEWATERING DISCHARGE DISPOSAL DETAIL

N.T.S.

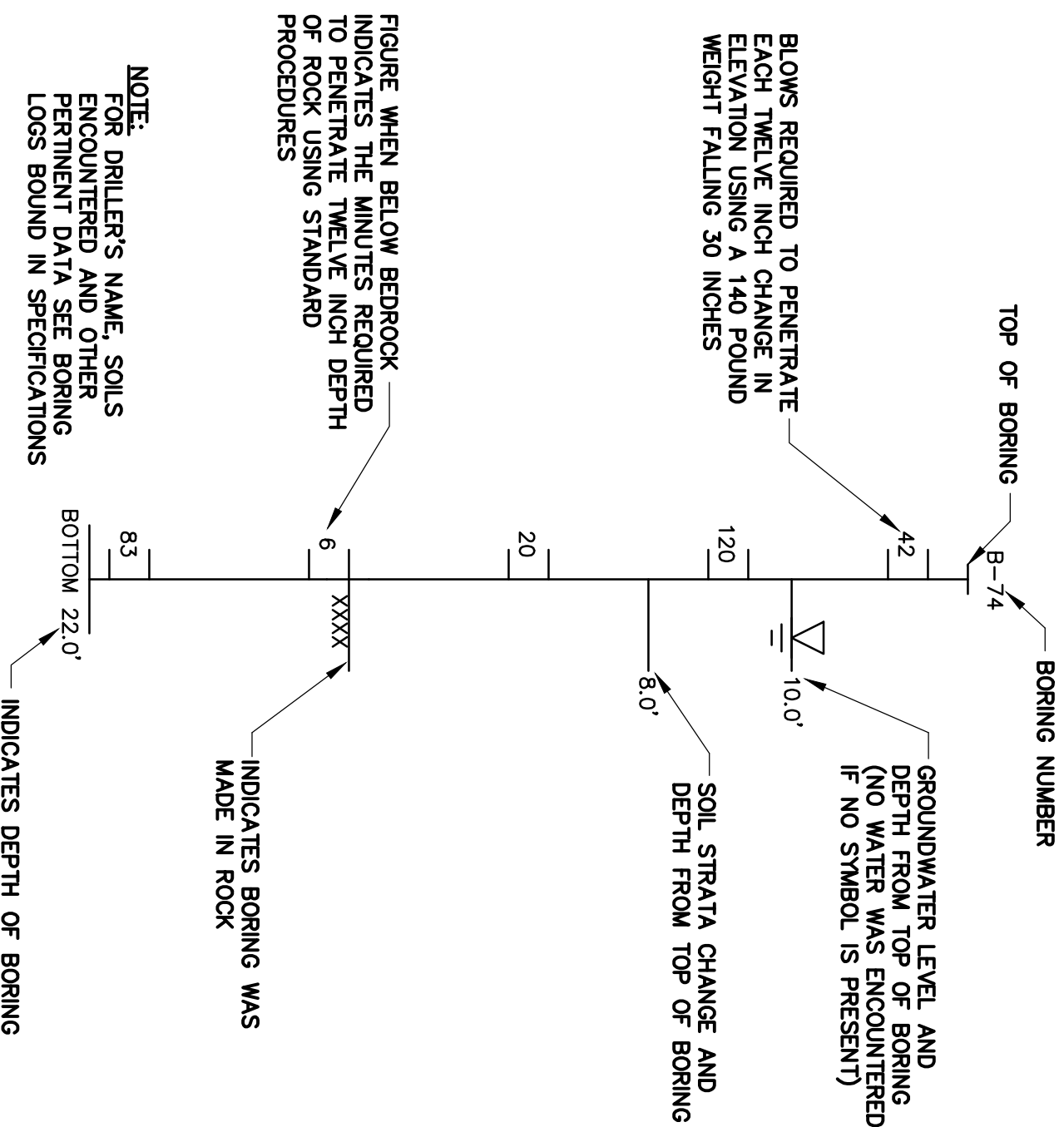


PAVEMENT REPLACEMENT DETAILS

N.T.S.

BORING LOG

N.T.S.



CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS										Weston & Sampson Weston & Sampson Engineers, Inc. 55 Walkers Brook Drive, Reading, MA 01867 978.532.1900 800.SAMPSON www.westonandsampson.com										
STANFORD STREET SEWER EXTENSION AND RUMFORD AVENUE TRANSFER STATION GRINDER PUMP																				
DETAILS II																				
FILE NO.	CADD NO.	SCALE: AS NOTED	CONTRACT:	JOB NO. 2180692	DR.BY RWS	DSN.BY MJD	CHK.BY PAT	APP.BY DME	No.		Date	Dr.By	Ck.By	App.By	Description	REGISTERED PROFESSIONAL ENGINEER		DATE		
												A	P	P	R	O	V	E	D	



Staniford St
Sanitary Sewer Extension
Preliminary Sewer Betterment Assessments
Using Current City Ordinance Assessment Calculations, Section 29-71 and 29-72

2/28/2019

Address	Owner	Book & Page #	Percent of Assessment Cost	Sewer Betterment Assessment Cost
39 Staniford St	Patel, Sandip V and Vibha S	037165/0228	12.50%	\$ 16,000
49 Staniford St	Barberio, James P and Dianne M	000883/0144	12.50%	\$ 16,000
50 Staniford St	Grieco, Elizabeth Tr	065299/0315	12.50%	\$ 16,000
55 Staniford St	Kadambi, Narayan	001350/0040	12.50%	\$ 16,000
56 Staniford St	Roth, Alan H and Holli G	028914/0383	12.50%	\$ 16,000
62 Staniford St	Wilson, Paul D	021380/0115	12.50%	\$ 16,000
65 Staniford St	West, Charles L Tr	001443/0086	12.50%	\$ 16,000
68 Staniford St	Decelles, Katherine	061908/0221	100.00%	\$ 128,000
TOTAL BETTERMENT ASSESSMENTS				
TOTAL PROJECT COST				\$ 256,000
CITY SHARE				\$ 128,000

City of Newton



DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE COMMISSIONER

1000 Commonwealth Avenue
Newton Centre, MA 02459-1449

Ruthanne Fuller
Mayor

March 8, 2019

To: Ruthanne Fuller, Mayor
Jonathan Yeo, Chief Operating officer

From: James McGonagle, Commissioner

Subject: Request for Authorization by the Public Facilities Committee of the City Council
For Easement Relocation on Boston College Middle Campus at Beacon Street

I request that the following item be docketed with the Public Facilities Committee of the Honorable City Council; that the Honorable City Council consider the following action to approve a partial relocation of an easement (the "City Easement") from the Trustees of Boston College to the City, originally granted in 1917, and amended in 2013 under Board Order 232-10 and 232-10 (2), and again in 2018 under Council order 357-18.

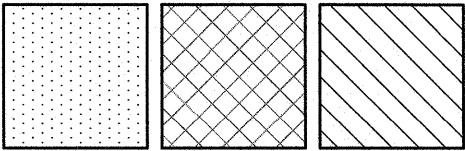
Boston College is planning a new Integrated Science Building on its Middle Campus on the present location of Cushing Hall, which will be demolished. Following discussions with representatives of the City's Engineering Division and the Law Department, Boston College desires to further amend a portion of the City Easement so that the City's existing storm drain can be rerouted beyond the footprint of the proposed building. A plan showing the City Easement as it would be affected by the proposed relocation is attached as Exhibit A.

I request that you ask the office of the City Clerk to place this matter on the docket of the Public Facilities Committee for a public hearing on the next available date.

Sincerely,

James McGonagle
Commissioner Public Works

cc: Louis M. Taverna, P.E., City Engineer
John Daghljan, Associate City Engineer
Alisa O. Guliani, City Solicitor
Jonah Temple, Law Department
Andrew Lee, Law Department
Shawna Sullivan, City Clerk's Office
Nadia Khan, City Clerk's Office

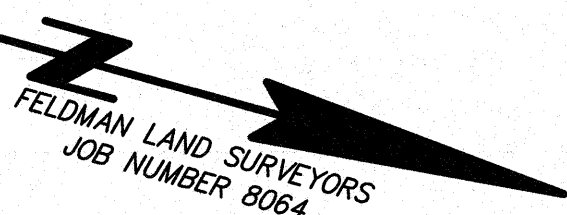


LEGEND

- 20' WIDE EXISTING (RETAINED) DRAIN EASEMENT
- 20' WIDE EXTINGUISHED DRAIN EASEMENT
- 20' WIDE RELOCATED DRAIN EASEMENT

NOTES

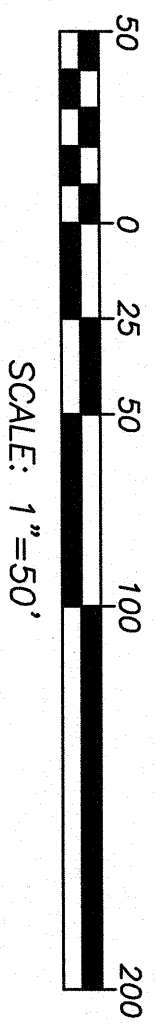
- 1) THE PURPOSE OF THIS PLAN IS TO RECONFIGURE THE EXISTING DRAIN EASEMENTS SHOWN IN PLAN 107 OF 2018, AND RECORDED IN BOOK 11582, PAGE 555.
- 2) THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF FELDMAN LAND SURVEYORS ISSUED TO OUR CLIENT FOR PURPOSES RELATED DIRECTLY AND SOLELY TO FELDMAN LAND SURVEYORS' SCOPE OF SERVICES UNDER CONTRACT TO OUR CLIENT FOR THIS PROJECT. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN CONSENT IS PROVIDED BY FELDMAN LAND SURVEYORS.



EASEMENT PLAN OF LAND
BEACON STREET/BOSTON COLLEGE
NEWTON, MASS.

FELDMAN LAND SURVEYORS
152 HAMDEN STREET
BOSTON, MASS. 02119
PHONE: (617)357-9740
WWW.FELDMANSURVEYORS.COM

FELDMAN
LAND SURVEYORS



SCALE: 1"=50'

RESEARCH	FIELD CHIEF (S)	PROJ. MGR. (P)	APPROVED (S)	SHEET NO. 1 OF 1
CALC. (P)	FIELD CHECKED	CAD FILE	JOB NO. 123516	

FILENAME: S:\PROJECTS\123516\123516\123516-EASE1.dwg

I CERTIFY THAT THE PROPERTY LINES SHOWN HEREON ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW DIVISION OF LAND OR NEW DIVISION OF OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS PLAN CONFORMS WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

BEACON

(PUBLIC - VARIABLE WIDTH)

STREET

COLLEGE

(PUBLIC - VARIABLE WIDTH)
ROAD

483.15'
S81°24'05"W

L=89.89'
R=289.99'

200.00'
S7°29'30"W

L=89.89'
R=289.99'

483.00'
S81°24'07"W

CITY OF NEWTON
CITY OF BOSTON

1 STORY
BRICK

MURPHY HALL
3 STORY BRICK

STOKES ACADEMIC HALL
5 STORY STONE

CARNEY HALL
4 STORY BRICK

MCGUINN HALL
5 STORY BRICK

CAMPION HALL
4 STORY BRICK

SERVICE BUILDING
3 STORY MASONRY

CUSHING HALL
3 STORY BRICK

FULTON HALL
5 STORY BRICK

20' WIDE EXISTING (RETAINED)
DRAINAGE EASEMENT
AREA=20,546 SQ. FT.

2 STORY STONE
1 STORY STONE

LYONS HALL
5 STORY STONE

EXTINGUISHED DRAINAGE EASEMENT
AREA = 4,976 SQ. FT.

RELOCATED DRAINAGE EASEMENT
AREA = 8,804 SQ. FT.

20' WIDE EXISTING (RETAINED)
DRAINAGE EASEMENT
AREA=4,871 SQ. FT.

Now or Formerly
RESTRICTED DRAINAGE
EASEMENT
BOOK 3342 PAGE 153
BOOK 3342 PAGE 362
BOOK 3343 PAGE 14
PARCEL ID 63009 0002

SCALE: 1"=50'

CITY OF NEWTON
CITY OF BOSTON

RESERVED FOR REGISTRY USE

CITY OF NEWTON
Department of Public Works
ENGINEERING DIVISION

Memorandum

To: Council Deborah Crossley, Facilities Committee Chair.
From: John Daghljan, Associate City Engineer
Re: Boston College Institute for Integrated Science & Society
Date: March 25, 2019
CC: Jim McGonagle, Commissioner
Lou Taverna, PE City Engineer
Ted Jerdee, Director of Utilities
Shawna Sullivan, Associate Clerk
Nadia Khan, Committee Clerk

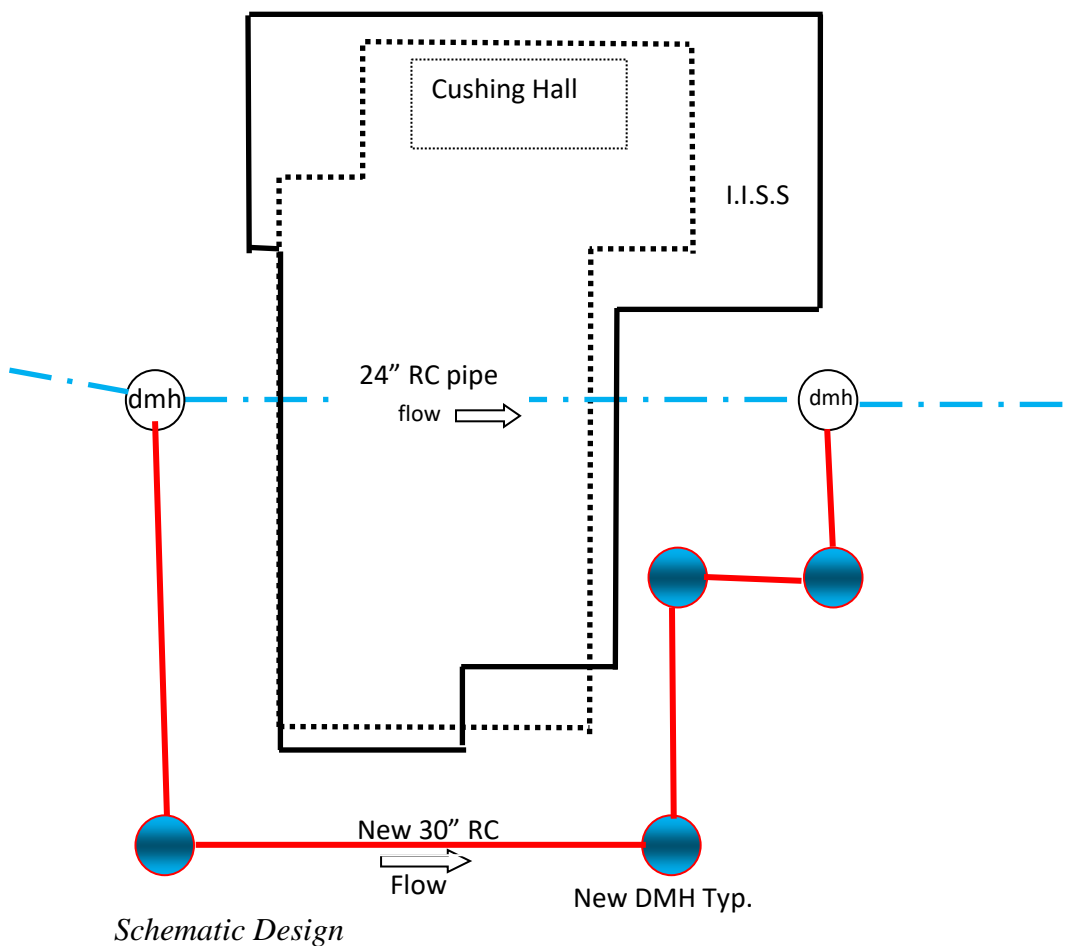
In reference to the above location, the following are my comments for a plan entitled:

*Boston College
Institute for Integrated Science & Society
Prepared By: Nitsch Engineering
Dated: 2/27/19*

Executive Summary:

Boston College wishes to erect a new *Institute Integrated Science & Society (IISS)* building located in the middle campus to replace the existing Cushing Hall. A complete demolition of Cushing Hall is required to building the new facility; associated with the demolition and new construction, a portion of an existing City drain pipe and easement that currently runs under Cushing Hall which dates to 1916 must be relocated.

The engineer of record has designed a re-routed system & easement that connects at an upstream manhole and diverts the alignment outside of the footprint of the new building; see schematic sketch for clarification.



The new 30" reinforced concrete pipe and manholes will be located into a new easement that will be granted to the City, the drafted easement is acceptable for the DPW & Engineering Division.

Once the City Council has approved the relocation abandonment of the old easement, and acceptance of the new easement, Boston college shall record the fully executed Grant and Board Order & Easement plan at the Middlesex Registry of Deed and submit to the City Clerk & City Engineer copies of the recording instrument(s).

General:

1. Final Approval of this plan by the City of Newton Engineering Division implies that the plan meets the minimal design standards of the City of Newton. However, the Engineering Division makes no representations and assumes no responsibility for the design(s) in terms of suitability for the particular site conditions or of the functionality or performance of any items constructed in accordance with the design(s). The City of Newton assumes no liabilities for design assumption, error or omissions by the Engineer of Record.
2. Prior to Occupancy permit being issued, an As-Built Plan shall be submitted to the Engineering Division in both digital format and in hard copy. The plan should show all utilities and final grades, any easements and final grading, all underground drainage facilities with swing ties from the corner of the new building. ***This note must be incorporated onto the site plan.***
3. The applicant will have to apply for a Utilities Connection Permit with the DPW. ***This note must be incorporated onto the site plan.***
4. If a Certificate of Occupancy is requested prior to all site work being completed, the applicant will be required to post a Certified Bank Check in the amount to cover the remaining work. The City Engineer shall determine the value of the uncompleted work.

If any changes from the original approved design plan that are required due to unforeseen site conditions, the engineer of record shall submit a revised design & stamped and submitted for review and approval prior to continuing construction.

If you have any questions or concerns, please feel free to contact me @ 617-796-1023.