



Public Facilities Committee Agenda

City of Newton In City Council

Wednesday, September 4th, 2019

7:00 PM
Room 204

Referred to Public Facilities Committee

#284-19 **President's appointment of David Gillespie to Design Review Committee**
DAVID GILLESPIE, 41 Woodlawn Drive, Chestnut Hill, appointed as a member of the DESIGN REVIEW COMMITTEE for a term to expire December 31, 2019.

#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.

Referred to Public Facilities and Finance Committees

#291-19 **Appropriate \$70,000 to install surveillance cameras in DPW buildings**
HER HONOR THE MAYOR requesting authorization to appropriate and expend seventy thousand (\$70,000) from FY2020 Budget Reserve to install surveillance cameras at the Rumford Ave Recycling Center, Eliot Street and Craft Street yards.

Referred to Public Facilities and Finance Committees

#292-19 **Appropriate \$175,000 for a modular trailer used by Public Work employees**
HER HONOR THE MAYOR requesting authorization to appropriate and expend one hundred and seventy-five thousand dollars (\$175,000) from bonded indebtedness for the purchase of a modular trailer at the Rumford Avenue Recycling Center.

Referred to Public Facilities and Finance Committees

#289-19 **Appropriate \$496,000 for a Vactor combination truck for sewer cleaning**
HER HONOR THE MAYOR requesting authorization to appropriate and expend four hundred and ninety-six thousand dollars (\$496,000) from the Sewer Fund Surplus to

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.

purchase a Vactor combination cleaner truck to be used by Public Works Department during sewer cleaning operations.

Referred to Public Facilities and Finance Committees

#290-19

Appropriate \$315,000 for a Vacuum Street Sweeper used for street cleaning

HER HONOR THE MAYOR requesting authorization to appropriate and expend three hundred and fifteen thousand (\$315,000) from the Stormwater Management Fund Surplus to purchase a Vacuum Street Sweeper to be used by the Public Works Department for street cleaning operations.

Referred to Public Facilities and Finance Committees

#293-19

Appropriate \$150,280 for two trucks to be used by the Highway Department

HER HONOR THE MAYOR requesting authorization to appropriate and expend one hundred fifty thousand two hundred and eighty dollars (\$150,280) from bonded indebtedness for the purchase of two Ford F550 4x4 trucks for the Department of Public Works for street and snow operations.

Referred to Public Facilities and Finance Committees

#294-19

Appropriate \$739,059 for three 6-wheel trucks for the Highway Department

HER HONOR THE MAYOR is requesting authorization to appropriate and expend seven hundred thirty-nine thousand and fifty-nine dollars (\$739,059) from bonded indebtedness for the purchase of three 6-wheel trucks to be used by the Highway Department for street and snow operations.

Respectfully Submitted,

Deborah Crossley, Chair

Application Form

Profile

David _____ O _____ Gillespie _____
First Name Middle Initial Last Name

Email Address

41 Woodlawn Drive _____
Home Address Suite or Apt

Chestnut Hill _____ MA _____
City State Postal Code

Suite or Apt
MA
State
02467
Postal Code

RECEIVED
Newton City Clerk
2019 JUL 23 PM 12:09
David A. Gillespie
Newton, MA 02467

What Ward do you live in?

Ward 7

Primary Phone

Alternate Phone

AvalonBay Communities, Inc. _____ Vice President- Development _____
Employer Job Title

Which Boards would you like to apply for?

Boston College Neighborhood Council: Submitted

Interests & Experiences

Please tell us about yourself and why you want to serve.

Why are you interested in serving on a board or commission?

I would like to lend my expertise in design, real estate and construction logistics to this council and represent my neighborhood. I have practical knowledge on how projects and events can impact a neighborhood and ways to mitigate those impacts.

newton_resume.pdf
Upload a Resume

David O. Gillespie

41 Woodlawn Drive
Chestnut Hill, MA 02467



Objective Seeking opportunity to volunteer in the City of Newton for the Boston College Neighborhood Council

Skills & Abilities 10 year resident of Newton and real estate executive who understands design, engineering, construction and logistics. Practical knowledge on how projects and events can impact a neighborhood and ways to mitigate those impacts.

Experience **AvalonBay Communities, Inc. – Boston, MA –2007 to present**
Real Estate Developer

- Day to day lead on real estate development projects from conception to completion. Expertise includes site selection, design, engineering, permitting, finance, construction, logistics and leasing.
- Projects delivered total \$1 billion in invested capital and over 2,500 units.
- Representative projects include Avalon North Station, Avalon Exeter, AVA Theater District, Avalon Sudbury, Avalon Framingham, Avalon at the Hingham Shipyard and Avalon Northborough.

Tarragon Development – New York, NY – 2006-2007
Real Estate Developer

Pulte Homes – Jersey City, NJ – 2004-2006
Real Estate Developer

Turner Construction – Washington, DC and Boston, MA – 1998-2002
Construction Engineer

Volunteer **Coaching-** 2014-present: Newton Girls Soccer (3 seasons), Newton Girls Softball (3 seasons), Brookline Youth Hockey (1 season)

West End Museum- Advisory Board- 2015-2018

Education **Columbia Business School – MBA – 2004**
Beta Gamma Sigma Honor Society, Dean’s List
Integrity Board (Student Judiciary)- Chairman, Real Estate Association

Tufts University – BS Civil Engineering – 1998
Cum Laude
Sigma Nu Fraternity, Varsity Football (2 seasons)



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

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ATTACHMENT B - PHOTO SIMULATIONS

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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

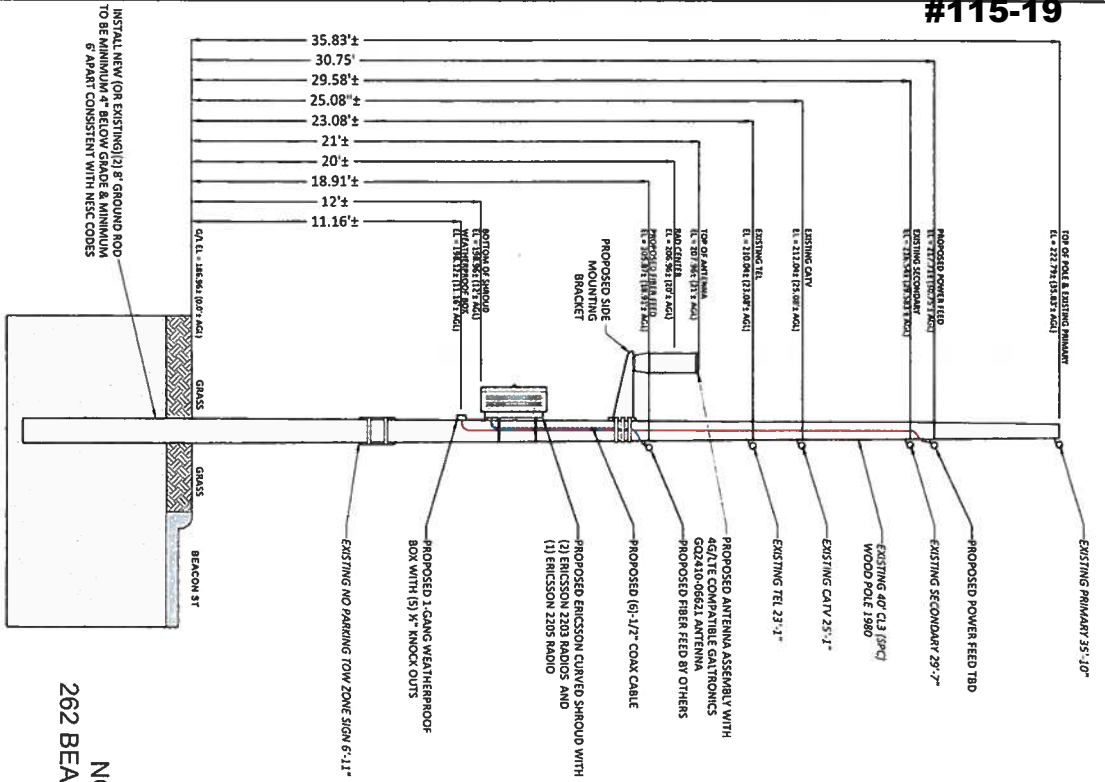
262 BEACON ST

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 90% VERBON 50%	89
CONTACT: RICK ANGELO 3030 WARRENVILLE RD SUITE 340 NORFOLK, MA 01908 NOC (866) 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:	extenei tower & more SYSTEMS
PREPARED BY:	UC SYNERGETIC 21 OSWEGO RD MASSAPLETT, MA 02048 www.ucsr.com 508-277-7629
NODE	RCTB-14_09
COVER PAGE	1
REVISIONS	DATE
NO	DESCRIPTION
DATE	
DRAWN BY: AC	
SCALE: AS SHOWN	
ISSUE DATE: 1/22/19	
PROJECT NAME: RCTB-14_09	
SHEET #: 1 OF 2	




ELEVATION
SCALE: 1" = 4'

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

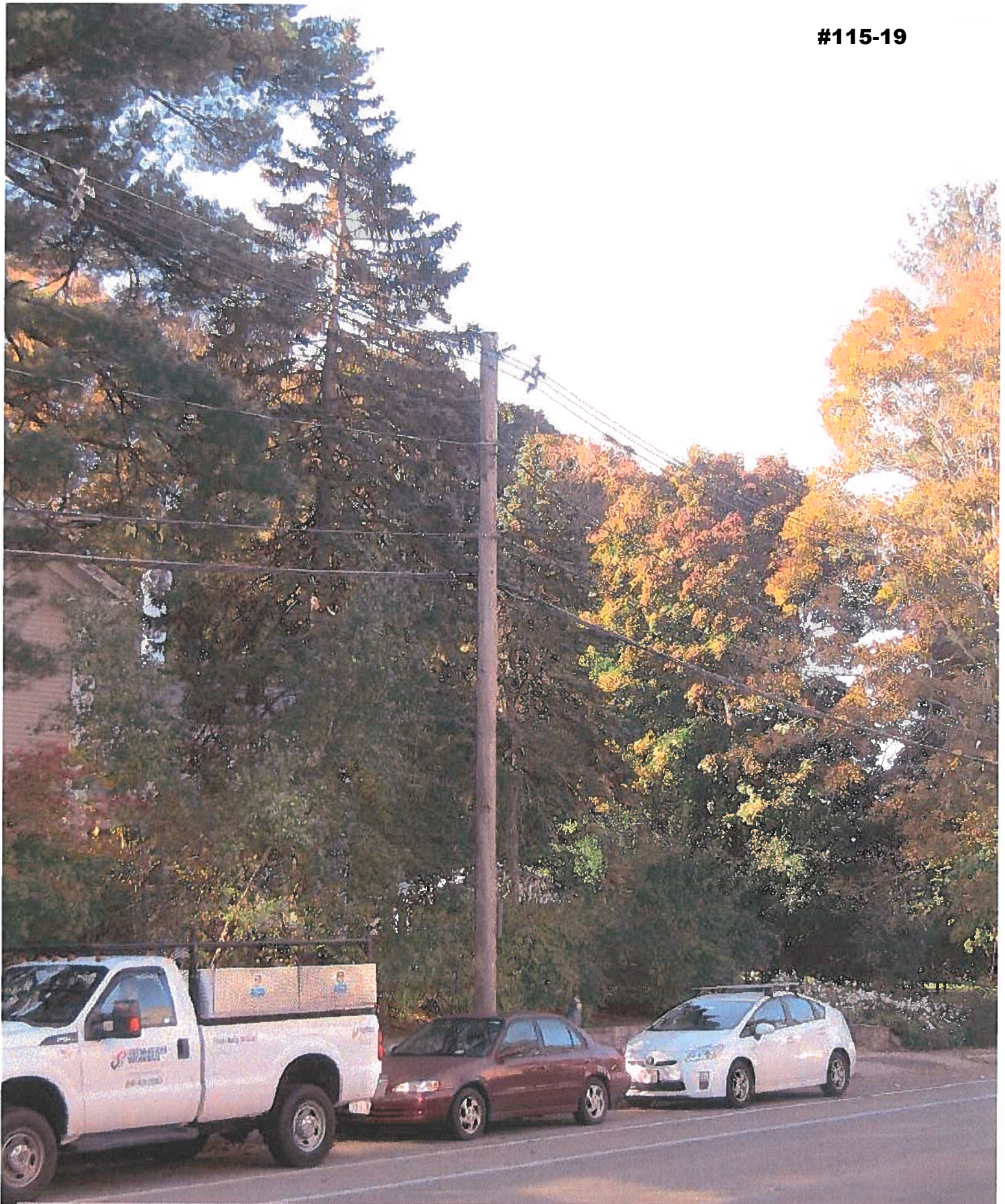
EXISTING WOODEN P. 3 1/8
40' CLASS 3 (SFC) 1980
TO BE USED



PHOTO ELEVATION
SCALE: N.T.'S

<p>PREPARED FOR:</p>  <p>extenet YOUR NEXT MOVE SYSTEMS</p>		<p>PREPARED BY:</p> <p>UC / SYNERGETIC 21 OXFORD RD MANSFIELD, MA 02048 www.ucnet.net 1-800-337-7600</p>	
<p>LOCATION:</p> <p>NEWTON, MA MIDDLESEX COUNTY</p>		<p>NOTES:</p>	
<p>DATE:</p> <p>REV:</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>PROJECT NAME: RCTB-14_09</p> <p>SHEET #: 2 OF 2</p>		<p>NODE</p> <p>RCTB-14_09</p> <p>SIDE PROFILE</p> <p>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

NBIC
TOTALLY COMMITTED.



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

Photograph Information:
Beacon Street
Showing the Proposed Site

NBIC
TOTALLY COMMITTED.

ATTACHMENT C

APPLICATION AND POLE ATTACHMENT LICENSE

Licensee: Extenet Systems
Street Address: 3030 WARRENVILLE ROAD
City, State and Zip: Lisle, IL 60532
Date: 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.

Eversource
Power Company

Licensee's Name (Print) Extenet Systems
Signature: Lili Mendonca
Title: Lili Mendonca (Agent)
Tel. No. 978-995-7101
Fax No. (603) 598-0097
E-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.

1752
(AGREEMENT ID #)

Licensor's Name (Print) Steve Owens
Signature: [Signature]
Title: Supervisor, Rights, & Public Works
Date: 7/12/18
Tel. No. 508-441-5881

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

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)			\$139.00
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

Appendix IV Form 3

FIELD SURVEY / MAKE-READY WORK FORM											
SURVEYORS:		DATE OF SURVEY:		CWO #:		MUNIC: Newton		STATE: MA		Munic Code:	
Verizon											
Licensee		Waveguide		LISCENSEE NAME: Eversource		EXTENET SYSTEMS		LISCENSEE APPLICATION#: NEW-ALBRD3M1-14		VERIZON APPLICATION #:	
ELCO											
LOCATION TEL RTE / STREET NAME List one pole per line	POLE #		ATT		OWNERSHIP		CHARGE:		WORK DESCRIPTION		
	Tel	El	F/C	P.S. Riser	J.O.	J.U.	F.O.	YES	NO	TASK #S / REMARKS	* Height of Att.
262 Beacon St, Newton, MA	31/6	31/6								Side Mount - 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 hold italicized areas only. (Provide ownership information if known)



FNF 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 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# : 31/16 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: 120/240 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 Drive

City, State, Zip: Nashua, NH 03063

Telephone: 978-995-7101 Best Time to Call: Anytime

Pager: _____ Email: lmendonca@waveguidefiber.com

Cell: 978-995-7101

Electrician: Dave McMullen License Number: _____

Business Name: Newport Electric

Street Address: 200 High Point Ave, B5,

City, State, Zip: Portsmouth, RI 02871

Telephone: 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-License 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		

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

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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

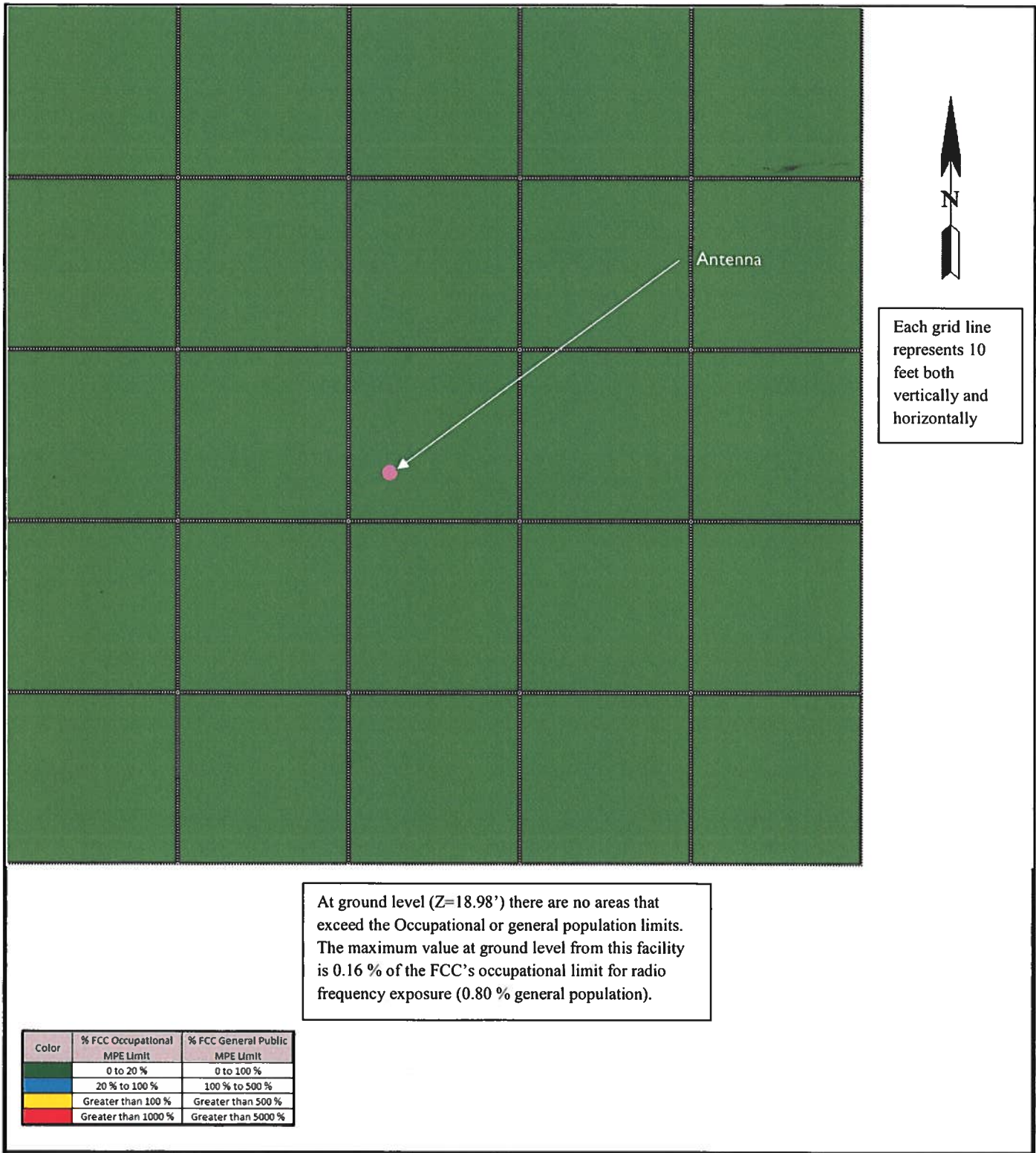
d. Antenna Inventory

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'

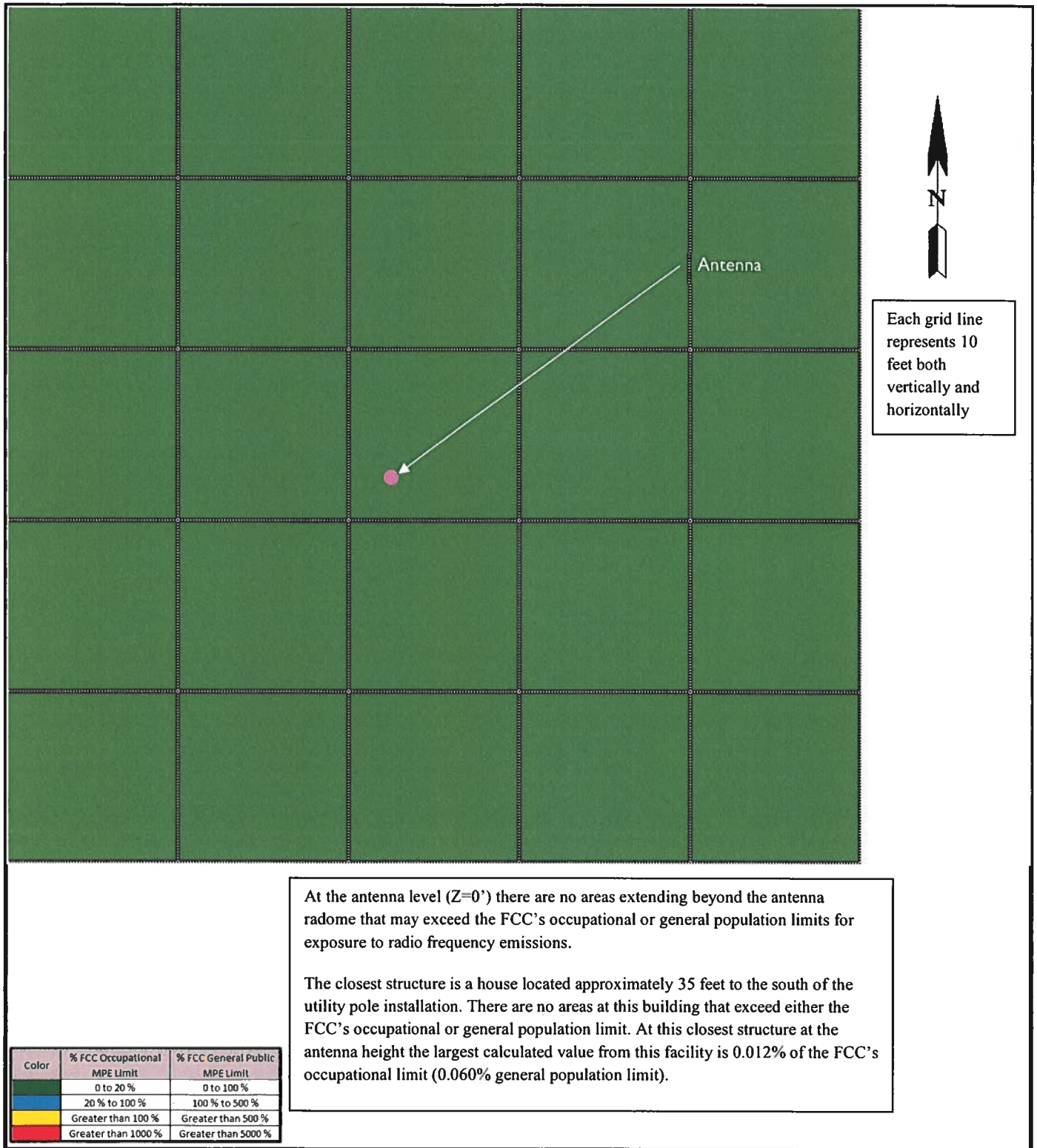
** The Z-Value represents the distance in feet from the bottom of the antenna to the ground level

3. Analysis

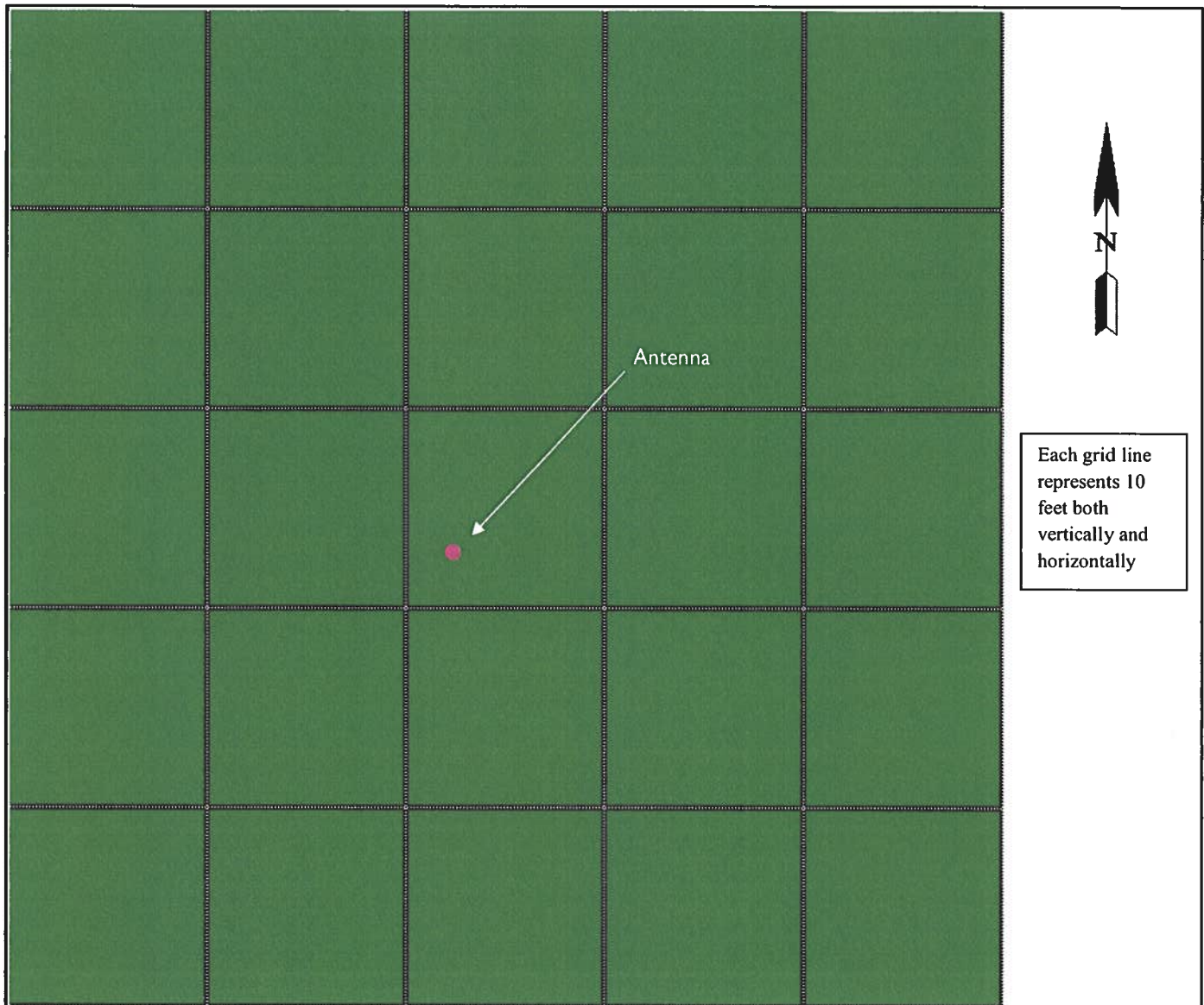
a. Predictive Model: All Transmitters (Z=18.98')



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



c. Predictive Model: Significant Contribution of ExteNet Systems



Each grid line represents 10 feet both vertically and horizontally

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).

Color	% FCC Occupational MPE Limit	% FCC General Public MPE Limit
Black	0 to 1 %	0 to 5 %
Orange	Greater than 1%	Greater than 5%

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).

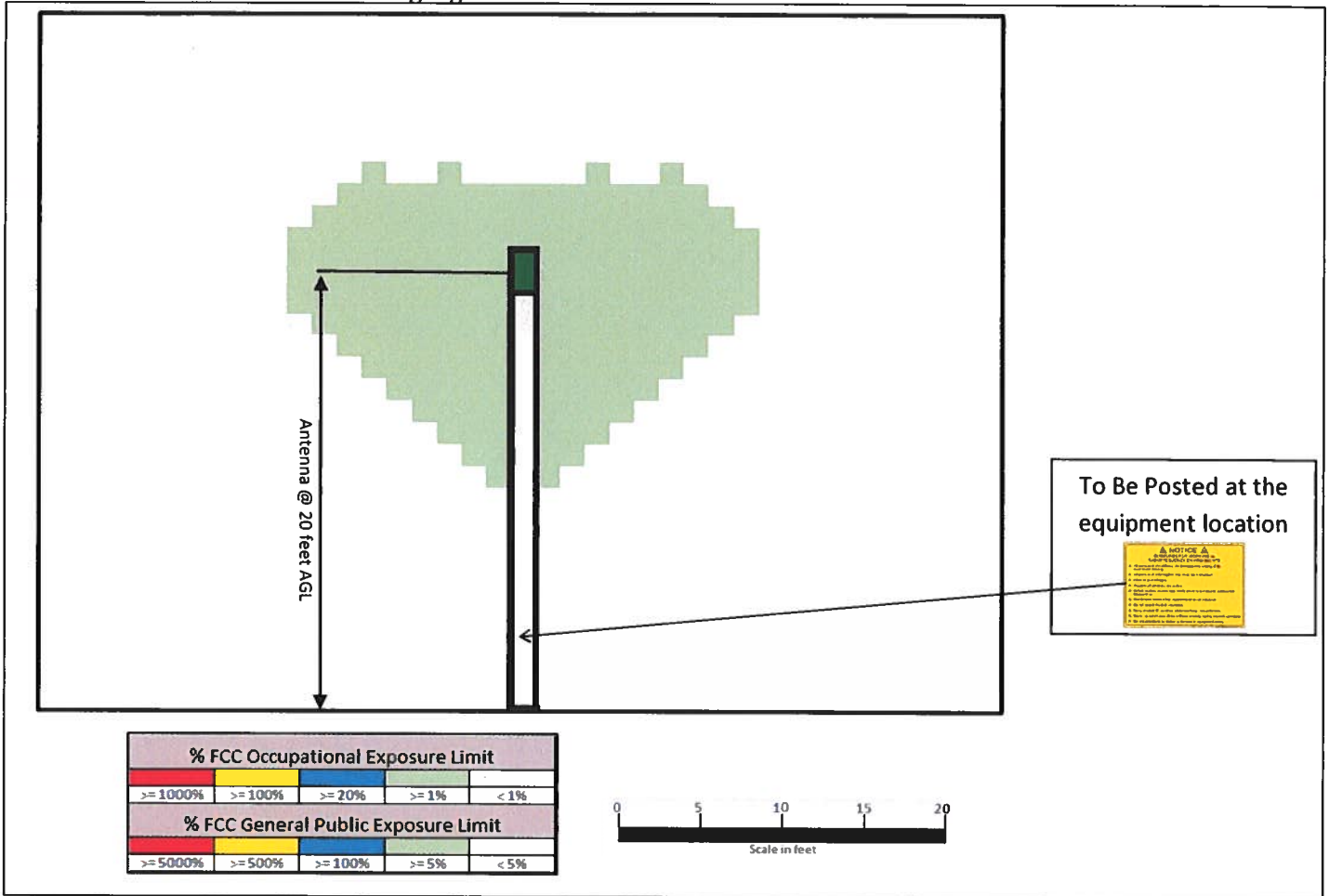
Collocator Significant Contribution Areas:

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						
	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

<p><u>Occupational</u> – 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”.</p>	<p><u>General Population</u> – 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.</p>
---	---

Environment Classification

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

<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.

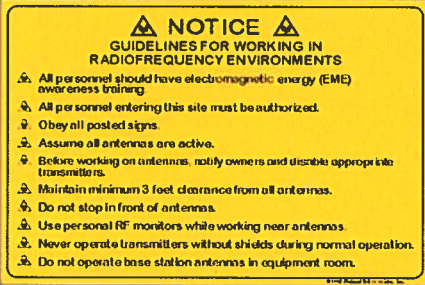



b. Occupational Safety and Health Administration (OSHA) Requirements


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
<p>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.</p>	<p>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.</p>	<p>Identifies RF controlled areas where RF exposure can exceed the Occupational/Controlled MPE but below 10 x the Occupational/Controlled MPE.</p>	<p>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.</p>
			

INFORMATION SIGN	INFORMATION
<p>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.</p>	

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,

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



April 1, 2019

Newton City Council
Newton City Hall
1000 Commonwealth Ave.
Newton, MA 02459
Attn: Shawna Sullivan – City Clerk’s Office

RE: Addendum to Application for Small Cell Approval for Extenet Systems, Inc. – 262 Beacon St., Newton, MA

Dear Members of the City Council:

Pursuant to the requirement by the City of Newton to gain approval from the Newton City Council for Wireless Communications Facility attachments to utility poles please see Addendum #1 to Application below. This Application was originally submitted on March 5, 2019 for an Eversource pole located at 262 Beacon St., Newton, MA.

ADDENDUM #1 to Application for 262 Beacon St.:

The proposed antenna attachment to the utility pole on the property at 262 Beacon St. is located within the Chestnut Hill Historic District. ExteNet was originally advised that there would be no adverse effect with this installation but since this correspondence the Commission has asked that a full hearing be conducted for their approval. ExteNet is moving ahead with this process now.

If you have any questions, or would like any additional information prior to the Public Facilities hearing please do not hesitate to contact me at (617) 680-5464. I will be present at the public hearing to answer any questions you may have as well.

Thank you,

Keenan Brinn
NB+C Contractor as agent for Extenet Systems, Inc.

LAW DEPARTMENT



CITY OF NEWTON, MASSACHUSETTS

CITY HALL

1000 COMMONWEALTH AVENUE

NEWTON CENTRE, MA 02459

TELEPHONE (617) 796-1240

FACSIMILE (617) 796-1254

CITY SOLICITOR
ALISSA O. GIULIANI

DEPUTY CITY SOLICITORS

JEFFREY A. HONIG
 MARIE M. LAWLOR

ASSISTANT CITY SOLICITORS

MAURA E. O'KEEFE
 ALAN D. MANDL
 JILL M. MURRAY
 JONAH M. TEMPLE
 JACLYN R. ZAWADA
 JENNIFER C. PUCCI
 ANDREW S. LEE
 CAROLYN A. WEISMAN

TO: DEBORAH CROSSLEY-CHAIR, PUBLIC FACILITIES COMMITTEE
FROM: ALAN MANDL
DATE: AUGUST 27, 2019
RE: EXTE NET SYSTEMS, INC.
 262 BEACON STREET GRANT OF LOCATION APPLICATION

THE CITY CLERK'S OFFICE HAS REQUESTED THAT THE LAW DEPARTMENT PROVIDE RECOMMENDATIONS FOR THE PUBLIC FACILITIES COMMITTEE TO CONSIDER AT ITS MEETING ON SEPTEMBER 4, 2019. THE CITY CLERK'S OFFICE HAS ADVISED THAT A TOLLING AGREEMENT BETWEEN THE CITY AND EXTE NET IS DUE TO EXPIRE ON SEPTEMBER 17, 2019. THE PROPOSED LOCATION IS WITHIN THE CHESTNUT HILL HISTORIC DISTRICT. AS OF THIS DATE, THE HISTORIC DISTRICT COMMISSION HAS NOT ISSUED A CERTIFICATE OF HARDSHIP BASED UPON AN APPLICATION SUBMITTED BY EXTE NET.

THE CITY COUNCIL HAS THE FOLLOWING OPTIONS:¹

- #1 REACH AGREEMENT WITH EXTE NET TO EXTEND THE TERM OF THE TOLLING AGREEMENT
- #2 GRANT THE LOCATION SUBJECT TO A CONDITION THAT NO FACILITIES BE CONSTRUCTED OR WORK PERFORMED BY EXTE NET UNTIL EXTE NET HAS OBTAINED A CERTIFICATE OF HARDSHIP OR OTHER APPLICABLE CERTIFICATE FROM THE CHESTNUT HILL HISTORIC DISTRICT COMMISSION AND FILED THE CERTIFICATE WITH THE CITY CLERK'S OFFICE (SECTION IV-B-3 OF STANDARDS AND PROCEDURES ADOPTED AUGUST 13, 2018).
- #3 DENY THE GRANT OF LOCATION. A BASIS FOR DENIAL MAY EXIST. CITY COUNCIL STANDARDS AND PROCEDURES SECTION IV-B-3 PROVIDES IN PART: "APPLICANTS ARE ENCOURAGED TO AVOID POLE LOCATIONS WITHIN AN HISTORIC DISTRICT."

WITH REGARD TO OPTION #3, THE LAW DEPARTMENT UNDERSTANDS THAT:

- THE CHESTNUT HILL HISTORIC DISTRICT COMMISSION FIRST REJECTED EXTE NET'S APPLICATION, BUT AFFORDED EXTE NET AN OPPORTUNITY TO SUBMIT AN ANALYSIS WHETHER THERE ARE ALTERNATIVE POLE LOCATIONS OUTSIDE OF THE HISTORIC DISTRICT
- EXTE NET HAS NOT PROVIDED TO THE COMMITTEE ANY EVIDENCE OF HISTORIC DISTRICT COMMISSION APPROVAL OF THE PROPOSED LOCATION
- EXTE NET HAS NOT PROVIDED TO THE COMMITTEE AN ANALYSIS WHETHER THERE ARE ALTERNATIVE POLE LOCATIONS OUTSIDE OF THE HISTORIC DISTRICT THAT WOULD MEET ITS SERVICE OBJECTIVES

¹ ExteNet has the option of withdrawing its application without prejudice to refileing or if it has found an alternative location.

- BASED UPON PREVIOUS INFORMATION PROVIDED BY EXTENET AND CONFIRMED BY DPW, A CITY-OWNED STREETLIGHT POLE IS IN CLOSE PROXIMITY TO EXTENET'S PROPOSED LOCATION, BUT OUTSIDE OF THE HISTORIC DISTRICT.
- EXTENET AND THE CITY PREVIOUSLY ENTERED INTO A LICENSE AGREEMENT TO ALLOW EXTENET TO ATTACH WIRELESS COMMUNICATIONS FACILITIES AT ANOTHER CITY-OWNED STREETLIGHT POLE LOCATION
- SUBJECT TO CONFIRMATION BY DPW, THE CITY IS WILLING TO ENTER INTO A LICENSE AGREEMENT TO ALLOW EXTENET TO ATTACH TO A CITY-OWNED STREETLIGHT POLE AT A LOCATION IN CLOSE PROXIMITY TO EXTENET'S PROPOSED LOCATION, BUT OUTSIDE OF THE HISTORIC DISTRICT.
- BASED ON THESE FACTS, THE CITY COUNCIL MAY FIND THAT A DENIAL OF EXTENET'S APPLICATION IS CONSISTENT WITH SECTION IV-B-3 OF ITS PROCEDURES AND STANDARDS. THE PROPOSED LOCATION WITHIN AN HISTORIC DISTRICT IS DISFAVORED AND THERE HAS BEEN NO SHOWING BY EXTENET THAT IT EXAMINED ALTERNATIVE LOCATIONS OUTSIDE OF THE HISTORIC DISTRICT THAT WOULD SATISFY ITS SERVICE NEEDS AND THAT NO SUCH FEASIBLE ALTERNATIVES EXIST. IN FACT, A CITY STREETLIGHT POLE LOCATED OUTSIDE OF THE HISTORIC DISTRICT AND VERY CLOSE TO EXTENET'S PROPOSED LOCATION IS AVAILABLE TO EXTENET BASED UPON STATEMENTS OF DPW AND THE FACT THAT THE CITY HAS ENTERED INTO A LICENSE AGREEMENT WITH EXTENET THAT ALLOWS IT TO ATTACH TO A CITY-OWNED STREETLIGHT POLE AT ANOTHER LOCATION.

THE LAW DEPARTMENT IS AVAILABLE TO REVIEW THESE OPTIONS WITH THE PUBLIC FACILITIES COMMITTEE.



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts

Office of the Mayor

#291-19

Telephone
(617) 796-1100

Telefax
(617) 796-1113

TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

August 5, 2019

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend \$70,000 from Acct # 0110498-579000 FY2020 Budget Reserve to install surveillance cameras at the Rumford Ave Recycling Center, as well as the Eliot Street and Crafts Street buildings.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECORDED
2019 AUG -5 PM 4:13
Newton City Clerk
David A. Green, City
Recorder, MA 02459

City of Newton



DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE COMMISSIONER

1000 Commonwealth Avenue
Newton Centre, MA 02459-1449

Ruthanne Fuller

Mayor

To: Mayor Ruthanne Fuller
Maureen Lemieux, CFO
Jonathan Yeo, COO

From: Jim McGonagle, Commissioner of Public Works

Subject: Cameras

Date: 7/29/19

I write to request that the Honorable Council docket for consideration a request to authorize the appropriation of \$70,000 to install surveillance cameras at the Rumford Ave Recycling Center, as well as the Eliot St. and Craft St. buildings.

Thank you for your consideration

Jim McGonagle
Commissioner of Public Works

Jim McGonagle
Commissioner

Telephone: (617) 796-1009 • Fax: (617) 796-1050 • jmcgonagle@newtonma.gov

Camera Project Estimate at Crafts Street, Elliot Street & Rumford Ave

7/26/2019

1 Security/Fiber Network:		
Cameras	\$	1,679 (Crafts Street)
Cameras	\$	43,877 (Elliot Street)
Cameras	\$	14,606 (Rumford Ave)
Temp Tie In for cameras/fiber	\$	<u>2,650 (Rumford Ave)</u>
2 Sub Total Project Estimate	\$	62,812
3 Project Contingency	\$	<u>6,281</u>
4 Project Total	\$	69,093



98 Galen St
 Watertown, MA 02472
 Tel: 617-864-3676

8/24/2018

ATTN : Shane Mark
 REF: Camera System Craft Street Yard Exterior

City Of Newton
 1000 Commonwealth Ave
 Newton MA 02459

Dear Shane,

Part A.1 This proposal is for (6) camera licenses. The video management system (Avigilon Video Server) is proposed seperately to the City per Joe Mulvey. Pricing includes setting up (1) client within the DPW. **Part A.2** is to deploy (6) Avigilon cameras at locations determined in the field walk thru. There will be (6) outdoor cameras. (2) will attach to the DPW Stable building. (1) at the fuel pumps and (1) 3 head multisensor east corner of building. The remaining (4) will be 3 head multisensor type and will be distributed as follows: (2) in the rear of the building, one capturing the yard infront of the two storage buildings, one catching the paint bay/parking lot (1) outside garage entrance across from fueling area and (1) outside the main entrance door from Craft Street catching the front door, both parking lots and entering the garage area.

Part A.1 Video System Licensing and Client Software

QTY	Description		Amount
1	4C-ACC6-ENT ACC 6 Enterprise license for up to 4 camera channels	@ \$ 693.00	\$ 693.00
2	1C-ACC6-ENT ACC 6 Enterprise license for up to 1 camera channel	@ \$ 201.00	\$ 402.00
*Enterprise comes with unlimited viewing licenses			Total Equipment \$ 1,095.00
**pricing assumes using existing computers/monitors for viewing clients			10% Mark UP \$ 109.50
			Total -Installation, Testing \$ 500.00
			Total \$ 1,704.50

Part A.2 IP Camera Install

QTY	Description		Amount
5	9W-H3-3MH-DP1-B 3 Image Sensor Pendant HD Multisensor Dome Camera	@ \$ 1,125.00	\$ 5,625.00
1	5.0L-H4A-BO2-IR 5.0MP, H4 HD Bullet, 9-22mm (fuel pump)	@ \$ 717.00	\$ 717.00
5	H4-MT-CRNR1 Corner Mounting Bracket	@ \$ 54.00	\$ 270.00
1	Bucket Truck Rental	@ \$ 600.00	\$ 600.00
1	Cat 6 Cable 1000'	@ \$ 210.00	\$ 210.00
1	Misc, Jacks, Patchcords, RJ-45 Connectors, Firestop, Labels	@ \$ 100.00	\$ 100.00
			Total Equipment \$ 7,522.00
			10% Mark UP \$ 752.20
			Total -Installation, Testing \$ 6,200.00
			Total \$ 14,474.20

Part A.1	Video System Licensing and Client Software	\$ 1,704.50
Part A.2	IP Camera Install	\$ 14,474.20
Total Cost		\$ 16,178.70

Clarifications & Exclusions

All Power Requirement by Electrical Contractor

All work to be performed during normal working hours Monday - Friday 7am to 3:30 pm.

All IP Cameras require POE from network switches. All IP Cameras are assumed to be on City of Newton network unless called out for within this proposal.

We thank you for this opportunity to be of service, if you have any questions please contact the undersigned.

Sincerely,



Adam Sherlock
Project Manager
Viscom Systems Inc.



98 Galen St
Watertown, MA 02472
Tel: 617-864-3676

9/6/2018

ATTN : Shane Mark
REF:Camera System 60 Elliot Street Yard Exterior

City Of Newton
1000 Commonwealth Ave
Newton MA 02459

Dear Shane,

Part A.1 This proposal is for (16) camera licenses. The video management system (Avigilion Video Server) is proposed separately to the City per Joe Mulvey. Pricing includes setting up (1) client within the DPW. **Part A.2** is to deploy (16) Avigilion cameras at locations determined in the field walk thru. There will be (16) outdoor cameras. (1) will attach to the back building for a parking lot (Ted Jerdee's building) The remaining (15) will be distributed the following: (4) on the exterior of 60 Elliot for coverage of all parking lots and (1) on the rear to cover the entrance to the DPW yard. (5) will be attached to the garage building to cover parts of the DPW yard, (4) will be attached to the Salt barn and will be connected to the network via a Fluid Mesh wireless connection. A 12' x 18 x 6" can will be mounted to the Salt barn and will require Power from the DPW to power a network switch and the Fluid Mesh. There will also be (1) camera mounted to the back of the Firestation to cover the very back of the DPW yard.

Part A.1 Video System Licensing and Client Software

QTY	Description	Amount
1	16C-ACC6-ENT ACC 6 Enterprise license for up to 16 camera channels	@ \$ 2,697.00 \$ 2,697.00
	*Enterprise comes with unlimited viewing licenses	Total Equipment \$ 2,697.00
	**pricing assumes using existing computers/monitors for viewing clients	10% Mark UP \$ 269.70
		Total -Installation, Testing \$ 960.00
		Total \$ 3,926.70

Part A.2 IP Camera Install

QTY	Description			Amount
1	8L-H4PRO-B - 4K (8 MP) H.264 HD Pro with LightCatcher Technology	@	\$ 1,251.00	\$ 1,251.00
2	3.0C-H4A-BO1-IR 3.0MP WDR, H4 HD Bullet, 3-9mm	@	\$ 621.00	\$ 1,242.00
3	5.0L-H4A-BO2-IR 5.0MP, H4 HD Bullet, 9-22mm	@	\$ 717.00	\$ 2,151.00
10	8.0-H4A-BO1-IR 4K UHD 8.0MP, H4 HD Bullet, 4.3-8mm	@	\$ 900.00	\$ 9,000.00
1	LEF2414CA - Canon, 24mm, f/1.4, Auto-Iris	@	\$ 2,124.00	\$ 2,124.00
1	ES-HD-HWS-LG - Large Format Enclosure, Heater, Wall Bracket and Sunshield, IP66	@	\$ 249.00	\$ 249.00
1	Fluid Mesh 3200-60 Wireless Base Station	@	\$ 1,731.00	\$ 1,731.00
1	Fluid Mesh 1200 Volo Wireless Antenna	@	\$ 548.00	\$ 548.00
1	Fluid Mesh 1200 Volo Hardware	@	\$ 420.00	\$ 420.00
1	Outdoor Rated 18"x12" Equipment Cabinet (salt barn	@	\$ 260.00	\$ 260.00
1	8 Port POE Switch (salt barn)	@	\$ 179.00	\$ 179.00
1	Misc 1/2" PVC Conduit, Unistrut Etc (4) cameras/(1) wireless	@	\$ 430.00	\$ 430.00
2	Bucket Truck Rental (two weeks)	@	\$ 900.00	\$ 1,800.00
2	Cat 6 Cable 1000'	@	\$ 210.00	\$ 420.00
1	Misc, Jacks, Patchcords, RJ-45 Connectors, Firestop, Labels	@	\$ 150.00	\$ 150.00
Total Equipment				\$ 21,955.00
10% Mark UP				\$ 2,195.50
Total -Installation, Testing				\$ 15,800.00
Total				\$ 39,950.50

Part A.1	Video System Licensing and Client Software	\$ 3,926.70
Part A.2	IP Camera Install	\$ 39,950.50
Total Cost		\$ 43,877.20

Clarifications & Exclusions


All Power Requirement by Electrical Contractor

All work to be performed during normal working hours Monday - Friday 7am to 3:30 pm.

All IP Cameras require POE from network switches. All IP Cameras are assumed to be on City of Newton network unless called out for within this proposal. (Salt Barn POE switch)

We thank you for this opportunity to be of service, if you have any questions please contact the undersigned.

Sincerely,



Adam Sherlock
Project Manager
Viscom Systems Inc.



98 Galen St
 Watertown, MA 02472
 Tel: 617-864-3676

10/3/2018

ATTN : Josh Morse
 REF:Camera System DPW Recycling Center

City Of Newton
 1000 Commonwealth Ave
 Newton MA 02459

Dear Josh,

Part A.1 This proposal is for (5) camera licenses. The video management system (Avigilon Video Server) is proposed separately to the City of Newton per Joe Mulvey. Pricing includes setting up (1) client within the Recycling Center, applying licenses and 2 hours of training for local party in charge. **Part A.2** is to deploy (5) Avigilon cameras at locations determined in the field walk thru. There will be (5) outdoor cameras. (2) will attach to the main building. The other 3 cameras will be run to 2 separate telephone poles on the property. (1) cat 5e outdoor cable will be needed for each of these cameras and will need to attach to 3 poles abutting the property and 3 poles on the property.

Part A.1 Video System Licensing and Client Software

QTY	Description		Amount
1	1C-ACC6-ENT ACC 6 Enterprise license for 1 camera channels	@ \$ 201.00	\$ 201.00
1	4C-ACC6-ENT ACC 6 Enterprise license for up to 4 camera channels	@ \$ 693.00	\$ 693.00
	*Enterprise comes with unlimited viewing licenses		Total Equipment \$ 894.00
	**pricing assumes using existing computers/monitors for viewing clients		10% Mark UP \$ 89.40
			Total -Installation, Testing \$ 960.00
		Total	\$ 1,943.40

Part A.2 IP Camera Install

QTY	Description		Amount
3	8.0-H4A-BO1-IR-B	@ \$ 900.00	\$ 2,700.00
2	5.0L-H4A-BO1-IR-B	@ \$ 621.00	\$ 1,242.00
5	H4-BO-JBOX1	@ \$ 54.00	\$ 270.00
3	H4-MT-POLE1	@ \$ 54.00	\$ 162.00
1	8 Port POE Switch	@ \$ 179.00	\$ 179.00
1	Misc 1/2" PVC Conduit, Unistrut Etc (4) cameras/(1) wireless	@ \$ 430.00	\$ 430.00
1	Bucket Truck Rental	@ \$ 450.00	\$ 450.00
1	Cat 6 Cable 1000' (outdoor)	@ \$ 322.00	\$ 322.00
1	Misc, Jacks, Patchcords, RJ-45 Connectors,Kellem, pole attachments, Labels	@ \$ 120.00	\$ 120.00
			Total Equipment \$ 5,875.00
			10% Mark UP \$ 587.50
			Total -Installation, Testing \$ 6,200.00
		Total	\$ 12,662.50

Part A.1	Video System Licensing and Client Software	\$ 1,943.40
Part A.2	IP Camera Install	\$ 12,662.50
	Total Cost	\$ 14,605.90

Clarifications & Exclusions

All Power Requirement by City of Newton (POE Network Switch)

All work to be performed during normal working hours Monday - Friday 7am to 3:30 pm.

All IP Cameras require POE from network switches, we are providing one until City of Newton POE switch and network installed.

Viscom Assumes Cat5e cabling will be allowed on telephone poles as specified

We thank you for this opportunity to be of service, if you have any questions please contact the undersigned.

Sincerely,



Adam Sherlock
Project Manager
Viscom Systems Inc.



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#292-19

Telephone
(617) 796-1100

Telefax
(617) 796-1113

TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

August 5, 2019

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend \$175,000 and authorize a general obligation borrowing of an equal amount for the purchase and fit up of a modular trailer to be used as an office space for Public Works employees, as well as to provide restroom and eye wash station facilities at the Rumford Ave Recycling Center.

Further, I request that your Honorable Council authorize any premium received upon the sale of the bonds or notes, less the cost of preparing, issuing and marketing them, and any accrued interest received upon the delivery of the bonds or notes be applied to the costs of the project being financed by the bonds or notes and to reduce the amount authorized to be borrowed for the project by a like amount.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

2019 AUG -5 PM 4:13
RECEIVED
CITY CLERK
RUTHANNE FULLER
MAYOR
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

To: Mayor Ruthanne Fuller
Maureen Lemieux, CFO
Jonathan Yeo, COO

From: Jim McGonagle, Commissioner of Public Works

Subject: Rumford Ave Modular Building

Date: 7/29/19

I write to request that the Honorable Council docket for consideration a request to authorize the appropriation of \$175,000 to purchase and outfit a modular trailer to be used as an office space for Public Works employees as well as provide restroom and eye wash station facilities at the Rumford Ave Recycling Center. The requested funding will include purchase, delivery, installation, and complete outfitting of the building that includes fiber, water, and electric service.

Thank you for your consideration

Jim McGonagle
Commissioner of Public Works

Jim McGonagle
Commissioner

Telephone: (617) 796-1009 • Fax: (617) 796-1050 • jmcgonagle@newtonma.gov

Rumford Ave Office Trailer Project Costs

1 New Building:

Modular Building	\$	50,134
Fiber	\$	18,750
Electric Service/new pole/trenching	\$	35,000
Electrical	\$	14,250
Plumbing	\$	7,500
Site work	\$	5,000
Design	\$	<u>30,000</u> *

2 Sub Total Project Estimate \$ 160,634

3 Project Contingency \$ 16,063

4 Project Total \$ 176,697

*Design of Electric service (Eversource) & modular bid documents

TRIUMPH MODULAR
 194 AYER ROAD
 LITTLETON, MA 01460
 (800)257-2536



#292-19

PAY ONLINE at triumphmodular.com
 Account #: 1832
 Email:
 Zip Code: 02459

BID/QUOTE

PRINT DATE: 07/29/19 Page 1

Customer:	Ticket#	Delivery Location:
City Of Newton 1000 Commonwealth Ave. Newton Centre MA 02459	Bid# 134127	Off Rumford Ave Newton MA 02459



Ordered by: Art Cabral **PO/Job #** Dpw **Estimated Billing Cycle Start:** 09/23/19 LT1
On-Site: Art Cabral **S/Spn:** L Turner
Phone: (617) 594-2457 **Terms:** Net 30 **Estimated Billing Cycle Stop:** 10/23/19 LT1

Qty	Item	Description	Rate	Total
SOLD ITEMS				
1	OT-1X	New 10 X 44 Office Trailer W/B		44375.00
1	OT-TRA	Trailer Delivery		414.00
1	OT-SET	Trailer Set Up, Block + Level		375.00
8	OT-TIE	Tie Downs - Asphalt		920.00
100	OT-SKI	Skirting - Vinyl		1900.00
2	ALUM S	Alum Stairs		2150.00

New From Factory
Lead Time Estimated 8-10 wks from executed contract

Please note that purchase orders provided by you are for accuracy of invoicing only, by accepting delivery of the property on this order you accept the terms and conditions attached hereto, with or without signature.

FOR SERVICE CALL 800-408-1688
 ACCOUNTING CALL 978-431-1000

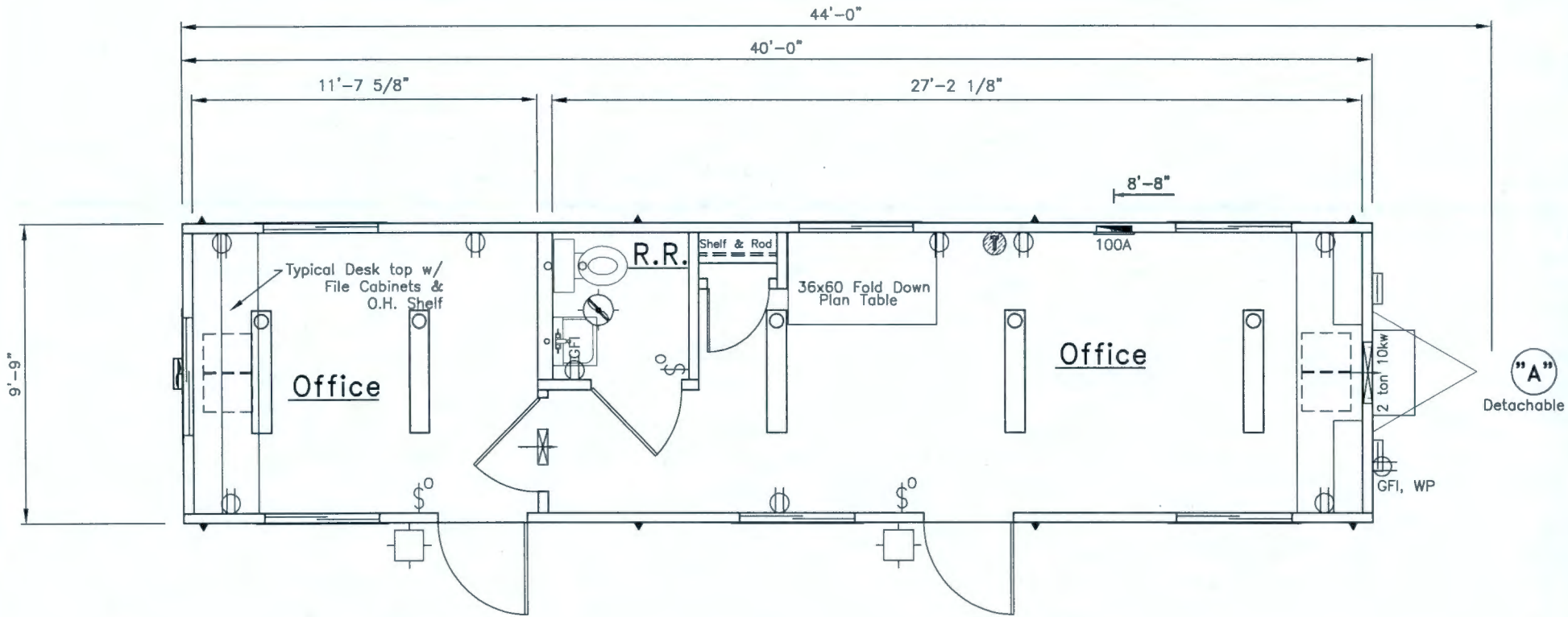
Lease Subtotal	0.00
Sales Subtotal	4,970.00
Trans / Del Subtotal	45,164.00
Sales Tax	0.00
Total	50,134.00

We thank you for your business

I HAVE READ AND AGREE TO THE TERMS OF THIS CONTRACT.

LESSEE: X _____

10 x 44 Office Trailer w/ Bath



Restrooms optional on most models. Standard layouts - door, window, partition & bathroom layouts may vary slightly depending on manufacturer



City of Newton
Addition of 115 Rumford Avenue, Auburndale
Newton Fiber Optic Municipal Area Network - ITC 54

Prepared by:	Comm-Tract Corp. 235 Summer Road, Bldg. # 4 Boxborough, MA 01719	Contact:	Bryan Hopkins
		Telephone:	(781) 890-5070 x6952
		Email:	bhopkins@comm-tract.com
Date:	April 18, 2018		

Bid No.	115 Rumford Avenue
Customer Number	

Bill To:		Ship To:	
Company:	City of Newton 1000 Commonwealth Avenue Newton Centre, MA 02459	Company:	City of Newton 1000 Commonwealth Avenue Newton Centre, MA 02459
Address:		Address:	
Contact Name:	Joe Mulvey	Contact Name:	Joe Mulvey
Phone:	(617) 796-1188	Phone:	(617) 796-1188
Fax:		Fax:	
Email:	jmulvey@newtonma.gov	Email:	jmulvey@newtonma.gov

Description of Work

Fiber Optic Municipal Area Network
Addition of 115 Rumford Avenue

- We propose to furnish and install (1) 12 Count Corning SMF-28e single mode fiber optic cable from the City of Newton existing fiber backbone cable located in the vicinity of Webster Street and Cherry Street to 115 Rumford Avenue, Auburndale.
- We propose to furnish and install (1) Corning 1U rack or wall mount SC/PC termination panel and will terminate 12 fibers onto SC/PC connectors within the 115 Rumford Avenue MDF room.
- We propose to enter the existing backbone splice case located on Webster Sreet and splice diversely 4 fibers in each direction around the ring.
- The fiber route will be Cherry Street, to River Street to Rumford Avenue.
- The fiber cable will be placed in the municipal space on the joint owned utility poles.
- All fiber testing will be to industry standards.



City of Newton
Addition of 1Mt. Ida College, 777 Dedham Street - ITC 54
Newton Fiber Optic Municipal Area Network

Quantity	Bill of Materials Description
----------	----------------------------------

5,280 Feet	Corning SMF-28e Single Mode Fiber Optic Cable
1	Corning 1U Rack or Wall Mount Termination Panel
12	Corning SC/PC Connectors
1	Corning 12 Way Fan-out Kit
1	Corning 12 Way SC/PC Bulkhead Panel
12	Fusion Heat Shrinks
35	Galvanized 5/8" Pole Line Hardware
6	Snow Shoes for Aerial Slack Storage
	Other Miscellaneous Materials



City of Newton
 Addition of 1Mt. Ida College, 777 Dedham Street - ITC 54
 Newton Fiber Optic Municipal Area Network

Warranty Information - Technical and Compliance Notes:

The Comm-Tract provided manufacturers warranty and technical compliance with design and installation standards information is provided below as associated with this scope of work.

- Comm-Tract is an approved Extended Warranty Provider (EWP) for Corning Cable Systems.
- The 25 Year Corning EWP Warranty commencing on the date of an accepted installation by the Customer covers all Corning Cabling Systems products and covers the repair, and/or replacement of all installed components including, but not limited to fiber cable, fiber connectors, fiber patch panels, fiber jumpers and patch cords, and other materials as installed.
- The repair and/or replacement of any component in the certified and approved network solution as provided and installed by Comm-Tract under the EWP Warranty is provided at no cost to the Customer 25-year period of the EWP Warranty.

- Comm-Tract adheres to the following design and installation standards relative to the scope of work as provided.
 - BICSI Design and Installation Applicable Standards
 - Telecommunications Industry Association (TIA) Applicable Standards
 - Electronics Industry Association (EIA) Applicable Standards
 - ANSI/TIA/EIA – 568 Standards
 - ANSI/TIA/EIA – 569 Standards
 - TIA/EIA 604 Fiber Optic Standards
 - TIA-492 Fiber Optic Installation Standards
 - TSB-149 Fiber Optic Workmanship Standards
 - IEEE 802.3 Standards



City of Newton
Addition of 1Mt. Ida College, 777 Dedham Street - ITC 54
Newton Fiber Optic Municipal Area Network

Special Terms

Customer agrees to the following payment schedule:

30%	Payment upon receipt of materials.	\$ 5,625.00
65%	Payment upon actual project progress.	\$ 12,187.50
5%	Payment upon completion.	\$ 937.50

- The Project Price shall be subject to adjustment in the event of any mutually agreed upon written changes made to the Scope of Work. Any changes during the project to the Scope of Work will be mutually agreed to in writing with Customer prior to any changes, or additional charges being added or deleted to the project.
- Prices are valid for 30-days.
- The Project Price does not include licensing of pole or underground facilities.
- The Project Price does not include police details.
- The Project Price does not include permitting is applicable.
- The Project Price does not include any new underground construction.
- The Project Price does not include any applicable taxes as the project is tax exempt.
- The Project Price includes shipping charges.
- The Project Price assumes access to each location is free and clear.
- Comm-Tract will perform during normal business hours – Monday through Friday, 8:00 a.m. to 5:00 p.m., unless otherwise specified in the Description of Work.
- Customer hereby agrees to the terms and conditions set forth in the Scope of Work by signing below or issuing a Purchase order referencing this Scope of Work.
- This Scope of Work is governed by the terms and conditions of the Commonwealth of Massachusetts ITC 54 blanket contract.

Est. Completion Date:	TBD
Materials:	
Labor:	
Total	\$ 18,750.00

Customer Name:	
Authorized Signature:	
Name:	
Date:	



RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#289-19

Telephone
(617) 796-1100

Telefax
(617) 796-1113

TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

August 5, 2019

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend \$496,000 from the Sewer Fund Surplus – Available for Appropriation Account to purchase a Vactor combination cleaner truck to be used by the Public Works Department during sewer cleaning operations.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

2019 AUG -5 PM 4: 12
J. A. Green, City Clerk
City of 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

To: Mayor Ruthanne Fuller
Maureen Lemieux, CFO
Jonathan Yeo, COO

From: Jim McGonagle

Subject: Vactor Truck

Date: 8/5/19

I write to request that the Honorable Council docket for consideration a request to authorize the appropriation of \$496,000 for the purchase of a Vactor combination cleaner truck to be used by the Public Works Department during sewer cleaning operations.

Thank you for your consideration of this matter.

Sincerely,

Jim McGonagle
Commissioner of Public Works

Jim McGonagle
Commissioner

Telephone: (617) 796-1009 • Fax: (617) 796-1050 • jmcgonagle@newtonma.gov

MUNICIPAL AND CONTRACTORS' EQUIPMENT

200 Merrimac St
Woburn MA 01801

PROPOSAL

Tel. (781) 935 1919
Fax [781] 937 9809

Date

City of Newton
Department of Public Works
110 Crafts St
Newton, MA 02458
ATT: Travis Mosca Fleet Supervisor

August 5, 2019

C. N. Wood is pleased to offer the following budget proposal through the Greater Boston Police council contract.

1 New Vactor 2110I combination sewer cleaner mounted on a Mack single axle chassis per attached specifications.

TOTAL SELLING PRICE \$495,255.00

C. N. Wood Co, Inc. is looking forward to providing the City of Newton with the Vactor premium products and first class service. Please do not hesitate to contact me if you have any questions or need further information.

Best Regards,
Stephen M. Russell
Sales Representative

No warranties are made other than those extended by the manufacturer of the equipment, and in the event of alleged breach of warranty, expressed or implied, the liability of C. N. Wood Co., Inc., shall be limited to the liability of the manufacturer to it, and shall be subject to all limitations and conditions imposed by the manufacturer.

Seller shall not be liable for any default or delay in delivery, as a result of shipping delays, strikes, fires, lockouts, or inability to procure materials.





RUTHANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

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TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

August 5, 2019

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend \$315,000 from the Stormwater Management Fund Surplus – Available for Appropriation Account to purchase a Vacuum Street Sweeper to be used by the Public Works Department during street cleaning operations.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECEIVED
Newton City Hall
2019 AUG -5 PM 4: 12
David A. Quinn, City
Manager, MA 02459

City of Newton



DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE COMMISSIONER

1000 Commonwealth Avenue
Newton Centre, MA 02459-1449

Ruthanne Fuller

Mayor

To: Mayor Ruthanne Fuller
Maureen Lemieux, CFO
Jonathan Yeo, COO

From: Jim McGonagle

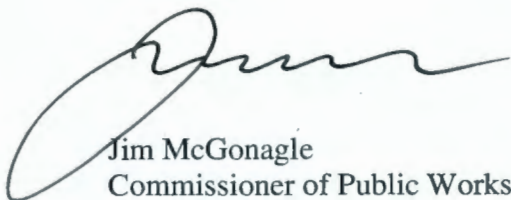
Subject: Sweeper

Date: 8/5/19

I write to request that the Honorable Council docket for consideration a request to authorize the appropriation of \$315,000 for the purchase of a Vacuum Street Sweeper to be used by the Public Works Department during street cleaning operations.

Thank you for your consideration of this matter.

Sincerely,



Jim McGonagle
Commissioner of Public Works

Jim McGonagle
Commissioner

Telephone: (617) 796-1009 • Fax: (617) 796-1050 • jmcgonagle@newtonma.gov

C.N. WOOD CO., INC.
CONTRACTORS' EQUIPMENT

Presents a Proposal Summary

of the



Whirlwind

Whirlwind Pure Vacuum Street Sweeper with Fluid Coupler Drive and Dual Side Brooms

for

City of Newton

August 2019

PRODUCT DESCRIPTION

· Tier 4F emissions, 8 cubic yard hopper, 36 in. trailing arm side brooms on both right and left hand sides, ergonomic control console, sweeper is powder coated with powder coated gray undercarriage.

STANDARD FEATURES

- Auxiliary Engine:
- John Deere 4045T, 4-cylinder Turbocharged diesel
- Alternator, 120 amp.
- Horsepower: 74 HP (55 kW at 2400 RPM torque 224 lb-ft @1600 RPM
- Displacement: 276 cu. in. (4.5 L)
- Auto Shutdown Auxiliary Engine
- Backup alarm, electric
- Broom Measurement Ruler
- Camera, Rear View
- Drive: Fluid coupling blower drive with power belt
- Doors, fiberglass access doors provide easy service and maintenance on auxiliary engine, hydraulic and electrical system
- Electronic Throttle
- Fuel tank, 50 gallons (189 L)
- Fuel water separator for auxiliary engine
- Hose, hydrant fill, 16 ft 8 inches with coupling
- Hopper rear door, hydraulically opened/closed and locked/unlocked with external controls
- Hydraulic oil cooler
- In cab hopper dump
- LED clearance lights
- AM/FM/CD Radio
- Left Hand Fender Mirror
- Right and Left Hand Heated and Remote Controlled Mirrors
- Sweeper Painted Standard White
- Chassis Painted Standard White
- Red Logo
- 1 Year Parts and Labor Warranty

ADDITIONAL FEATURES

- 2020 Freightliner M2 Chassis - Dual Steer
- Cameras – RH and LH Sides
- Auto Shutter Right Hand
- Auto Shutter Left Hand
- Lifeliner Hopper System
- Stainless Steel Screens
- Right Hand Inspection Door with Step and Handle
- 6" Hopper Drain
- Hydraulic Heavy-Duty Wandering Hose
- (2) 4 Ft. Aluminum Wandering Hose Extension Rear Mounted
- Front Spray Bar
- Hopper Deluge
- High Pressure Washdown
- Nozzle With 3rd Caster Wheel
- Auxiliary Hydraulic Pump
- Autolube - Sweeper Only
- Rear LED Arrowstick
- (2) Rear LED Beacons
- Sweeper Service Manual
- John Deere Service Manual
- Chassis Operators Manual
- Chassis Parts Manual
- Chassis Service Manual

Budget Price: \$315,500.00

Price valid for 30 Days from date of 8/2/2019

LIMITED WARRANTY

ELGIN SWEEPER COMPANY warrants each new machine manufactured by it against defects in material and workmanship provided the machine is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of twelve (12) months from the date of delivery to the original user-purchaser.

ELGIN SWEEPER COMPANY will cause to be repaired or replaced, as the Company, may elect, any part or part of such machine which the Company's examination discloses to be defective in material or workmanship.

Repairs or replacements are to be made at the selling Elgin distributor's location or at other locations approved by ELGIN SWEEPER COMPANY.

The ELGIN SWEEPER COMPANY warranty shall not apply to:

1. Major components or trade accessories such as but not limited to, trucks, engines, tires or batteries that have a separate warranty by the original manufacturer.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as but not limited to, broom filters, broom wire, shoe runners and rubber deflectors.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by ELGIN SWEEPER COMPANY.
5. Repairs, modifications or alterations without the consent of ELGIN SWEEPER COMPANY which, in the Company's sole judgment, have adversely affected the machine's stability or reliability.
6. Items subjected to misuse, negligence, accident or improper maintenance.

The use in the product of any part other than parts approved by ELGIN SWEEPER COMPANY may invalidate this warranty. ELGIN SWEEPER COMPANY reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty.

Nothing contained in this warranty shall make ELGIN SWEEPER COMPANY liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure in the machine.

TO THE EXTENT LIMITED BY LAW, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

This warranty is also in lieu of all other obligations or liabilities on the part of ELGIN SWEEPER COMPANY, including but not limited to, liability for incidental and consequential damages on the part of the Company or the seller.

ELGIN SWEEPER COMPANY makes no representation that the machine has the capacity to perform any functions other than as contained in the Company's written literature, catalogs or specifications accompanying delivery of the machine.

No person or affiliated company representative is authorized to give any other warranties or to assume any other liability on behalf of ELGIN SWEEPER COMPANY in connection with the sale, servicing or repair of any machine manufactured by the Company.

ELGIN SWEEPER COMPANY reserves the right to make design changes or improvements in its products without imposing any obligation upon itself to change or improve previously manufactured products.



RUTHIANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#293-19

Telephone
(617) 796-1100

Telefax
(617) 796-1113

TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

August 5, 2019

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend \$150,280 and authorize a general obligation borrowing of an equal amount for the purchase of two Ford F550 4x4 trucks to be used by the Highway Department during street and snow operations.

Further, I request that your Honorable Council authorize any premium received upon the sale of the bonds or notes, less the cost of preparing, issuing and marketing them, and any accrued interest received upon the delivery of the bonds or notes be applied to the costs of the project being financed by the bonds or notes and to reduce the amount authorized to be borrowed for the project by a like amount.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECEIVED
CITY CLERK
2019 AUG -5 PM 4:14
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

To: Mayor Ruthanne Fuller
Maureen Lemieux, CFO

From: Jim McGonagle

Subject: (2) Highway 6 Wheel Dump Truck

Date: 7/29/19

I write to request that the Honorable Council docket for consideration a request to authorize the appropriation of \$150,280 for the purchase of two Ford F550 4x4 trucks to be used by the Highway Department during street and snow operations. Please see attached backup.

Thank you for your consideration of this matter.

Sincerely,

Jim McGonagle
Commissioner of Public Works

Jim McGonagle
Commissioner

Telephone: (617) 796-1009 • Fax: (617) 796-1050 • jmcgonagle@newtonma.gov



Minuteman Truck Sales, Inc.
2181 Providence Highway, Walpole,
Massachusetts, 020812528
Office: 508-668-3112

Customer Proposal

Prepared by:
Dominick LaGambina
Office: 508-668-3112
Email: dlagambina@minutemantrucks.com

Date: 07/15/2019
Vehicle: 2020 F-550 Chassis XL
4x4 SD Regular Cab 145" WB DRW Quote
ID: Newton 43 & 45

2020 F-550 Chassis 4x4 SD Regular Cab 145" WB DRW XL (F5H)

Price Level: 950



Client Proposal

Prepared by:
Dominick LaGambina
Office: 508-668-3112
Quote ID: New4345
Date: 07/15/2019





Prepared by: Dominick LaGambina
07/15/2019

Minuteman Trucks, Inc. | 2181 Providence Highway Walpole Massachusetts |
020812528

2020 F-550 Chassis 4x4 SD Regular Cab 145" WB DRW XL (F5H)

Price Level: 950 | Quote ID: New4345

Selected Equip & Specs

Dimensions

- Exterior length: 230.7" • Cab to axle: 60.0" • Exterior width: 80.0" • Exterior height: 81.5" • Wheelbase: 145.0" • Front track: 74.8" • Rear track: 74.0" • Turning radius: 21.2' • Rear tire outside width: 93.9" • Min ground clearance: 8.2" • Front legroom: 43.9" • Front headroom: 40.8" • Front hiproom: 62.5" • Front shoulder room: 66.7" • Passenger volume: 64.6cu.ft.
- Cargo volume: 11.6cu.ft. • Maximum cargo volume: 11.6cu.ft.

Powertrain

- 288hp 6.8L SOHC 30 valve V-10 engine with SMPI • Recommended fuel : regular unleaded • federal • TorqShift 6 speed automatic transmission with overdrive • Part-time * **Limited slip differential** • Fuel Economy Cty: N/A • Fuel Economy Highway: N/A

Suspension/Handling

- Front Mono-beam non-independent suspension with anti-roll bar, HD shocks * **Rear DANA 130 rigid axle leaf spring suspension with anti-roll bar, HD shocks** • Firm ride Suspension • Hydraulic power-assist re-circulating ball Steering • Front and rear 19.5 x 6 argent steel wheels * **LT225/70SR19.5 GBSW AT front and rear tires** • Dual rear wheels

Body Exterior

- 2 doors * **Driver and passenger power remote heated, manual folding door mirrors with turn signal indicator * Turn signal indicator in mirrors** • Black door mirrors * **Chrome bumpers * Side steps** • Trailer harness • Clearcoat paint • Front and rear 19.5 x 6 wheels • 2 front tow hook(s)

Convenience

- Manual air conditioning with air filter * **Cruise control with steering wheel controls * Power front windows * Driver and passenger 1-touch up * Driver and passenger 1-touch down * Remote power door locks with 2 stage unlock and illuminated entry** • Manual tilt steering wheel • Manual telescopic steering wheel * **Day-night rearview mirror with auto-dimming * 911 Assist emergency SOS * Wireless phone connectivity * AppLink smart device integration * 2 1st row LCD monitors** • Front cupholders • Passenger visor mirror * **Driver and passenger door bins** • Upfitter switches

Seats and Trim

- Seating capacity of 3 • Front 40-20-40 split-bench seat • 4-way driver seat adjustment • Manual driver lumbar support • 4-way passenger seat adjustment • Centre front armrest with storage

Entertainment Features

- AM/FM stereo radio * **SYNC external memory control * Steering wheel mounted radio controls** • 4 speakers * **Streaming audio** • Fixed antenna

Lighting, Visibility and Instrumentation

- Halogen aero-composite headlights • Delay-off headlights • Fully automatic headlights • Variable intermittent front windshield wipers * **Rear window defroster * Deep tinted windows** • Front reading lights • Tachometer • Oil pressure gauge * **Compass** • Outside temperature display * **Camera(s) - rear** • Trip computer • Trip odometer

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Price Level: 950 | Quote ID: New4345

Selected Equip & Specs (cont'd)

Safety and Security

• 4-wheel ABS brakes • Brake assist • 4-wheel disc brakes • Driveline traction control • Dual front impact airbag supplemental restraint system with passenger cancel • Dual seat mounted side impact airbag supplemental restraint system • Safety Canopy System curtain 1st row overhead airbag supplemental restraint system * **Remote activated perimeter/approach lighting** * **Power remote door locks with 2 stage unlock and panic alarm** * **Security system with SecuriLock immobilizer** * **MyKey restricted driving mode** • Manually adjustable front head restraints

Dimensions

General Weights

* Curb	7,289 lbs.	* GVWR	19,000 lbs.
* Payload	12,000 lbs.		

Front Weights

* Front GAWR	7,500 lbs.	* Front curb weight	4,060 lbs.
* Front axle capacity	7,500 lbs.	* Front spring rating	7,500 lbs.
Front tire/wheel capacity	7,500 lbs.		

Rear Weights

Rear GAWR	13,660 lbs.	* Rear curb weight	3,229 lbs.
* Rear axle capacity	14,706 lbs.	* Rear spring rating	15,000 lbs.
Rear tire/wheel capacity	15,000 lbs.		

Trailer Type

Harness	Yes	* Brake controller	Yes
Trailer sway control	Yes		

General Trailing

5th-wheel towing capacity	20300 lbs.	Gooseneck towing capacity	20300 lbs.
Towing capacity	18500 lbs.	GCWR	28000 lbs.

Fuel Tank type

Capacity	40 gal.
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Off Road

Min ground clearance	8 "
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Interior cargo

Cargo volume	11.6 cu.ft.	Maximum cargo volume	11.6 cu.ft.
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Rear Frame

Height loaded	29 "	Height unloaded	35 "
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Powertrain

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Price Level: 950 | Quote ID: New4345

Selected Equip & Specs (cont'd)

Engine Type

Block material	Iron	Cylinders	V-10
Head material	Aluminum	Ignition	Spark
Injection	Sequential MPI	Liters	6.8L
Orientation	Longitudinal	Recommended fuel	Regular unleaded
Valves per cylinder	3	Valvetrain	SOHC

Engine Spec

Bore	3.55"	Compression ratio	9.2:1
Displacement	415 cu.in.	Stroke	4.16"

Engine Power

Output	288 HP @ 4,000 RPM	Torque	424 ft.-lb @ 3,000 RPM
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Alternator

Type	HD	Amps	240
------	----	------	-----

Battery

Amp hours	78	Cold cranking amps	750
Run down protection	Yes	Type	HD

Transmission

Electronic control	Yes	Lock-up	Yes
Overdrive	Yes	Speed	6
Type	Automatic		

Transmission Gear Ratios

1st	3.974	2nd	2.318
3rd	1.516	4th	1.149
5th	0.858	6th	0.674
Reverse Gear ratios	3.128		

Transmission Torque Converter

Stall ratio	1.90
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Transmission Extras

Driver selectable mode	Yes	Sequential shift control	SelectShift
Oil cooler	Regular duty		

Drive Type

4wd type	Part-time	Type	Four-wheel
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Drive Feature

* Limited slip differential	Mechanical	Traction control	Driveline
Locking hub control	Manual	Transfer case shift	Manual

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Selected Equip & Specs (cont'd)

Drive Axle

Ratio 4.88

Exhaust

Material Stainless steel System type Single

Emissions

CARB Federal

Fuel Economy

Fuel type Gasoline

Driveability

Brakes

ABS 4-wheel ABS channels 3
Type 4-wheel disc Vented discs Front and rear

Brake Assistance

Brake assist Yes

Suspension Control

Ride Firm

Front Suspension

Independence Mono-beam non-independent Anti-roll bar Regular

Front Spring

Type Coil *Grade HD

Front Shocks

Type HD

Rear Suspension

*Independence DANA 130 rigid axle Type Leaf
Anti-roll bar Regular

Rear Spring

Type Leaf Grade HD

Rear Shocks

Type HD

Steering

Activation Hydraulic power-assist Type Re-circulating ball

Steering Specs

of wheels 2

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Selected Equip & Specs (cont'd)

Exterior

Front Wheels

Diameter 19.5" Width 6.00"

Rear Wheels

Diameter 19.5" Width 6.00"
Dual Yes

Spare Wheels

* Wheel material Steel

Front and Rear Wheels

Appearance Argent Material Steel

Front Tires

Aspect 70 Diameter 19.5"
Sidewalls BSW Speed S
* Tread AT Type LT
Width 225mm LT load rating G
* RPM 645

Rear Tires

Aspect 70 Diameter 19.5"
Sidewalls BSW Speed S
* Tread AT Type LT
Width 225mm LT load rating G
* RPM 645

Spare Tire

* Mount Frame mounted * Type Full-size

Wheels

Front track 74.8" Rear track 74.0"
Turning radius 21.2' Wheelbase 145.0"
Rear tire outside width 93.9"

Body Features

Front license plate bracket Yes Front splash guards Yes
Body material Aluminum Side impact beams Yes
* Side steps Yes Front tow hook(s) 2

Body Doors

Door count 2

Exterior Dimensions

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Selected Equip & Specs (cont'd)

Length	230.7"	Body width	80.0"
Body height	81.5"	Cab to axle	60.0"
Axle to end of frame	47.2"	* Frame section modulus	17.2cu.in.
Frame yield strength (psi)	50000.0	Frame rail width	34.2"
Front bumper to Front axle	38.3"	Cab to end of frame	107.2"
Front bumper to back of cab	123.7"		

Safety

Airbags

Driver front-impact	Yes	Driver side-impact	Seat mounted
Overhead Safety Canopy System curtain 1st row		Passenger front-impact	Cancellable
Passenger side-impact	Seat mounted		

Seatbelt

Height adjustable	Front
-------------------	-------

Security

* Immobilizer	SecuriLock	* Panic alarm	Yes
* Restricted driving mode	MyKey		

Seating

Passenger Capacity

Capacity	3
----------	---

Front Seats

Split	40-20-40	Type	Split-bench
-------	----------	------	-------------

Driver Seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4	Lumbar support	Manual

Passenger seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4		

Front Head Restraint

Control	Manual	Type	Adjustable
---------	--------	------	------------

Front Armrest

Centre	Yes	Storage	Yes
--------	-----	---------	-----

Front Seat Trim

Material	Vinyl	Back material	Vinyl
----------	-------	---------------	-------

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Selected Equip & Specs (cont'd)

Convenience

AC And Heat Type

Air conditioning Manual Air filter Yes

Audio System

Radio AM/FM stereo Radio grade Regular
Seek-scan Yes * External memory control SYNC

Audio Speakers

Speaker type Regular Speakers 4

Audio Controls

* Steering wheel controls Yes * Voice activation Yes
* Streaming audio Bluetooth yes

Audio Antenna

Type Fixed

LCD Monitors

* 1st row 2 * Primary monitor size (inches) 4.2

Cruise Control

* Cruise control With steering wheel controls

Convenience Features

* Retained accessory power Yes 12V DC power outlet 2
* Emergency SOS 911 Assist * Wireless phone connectivity Bluetooth
* AC power outlet 1 * Smart device integration App link
Upfitter switches Yes

Door Lock Activation

* Type Power with 2 stage unlock * Remote Keyfob (all doors)
* Integrated key/remote Yes

Instrumentation Type

Display Analog

Instrumentation Gauges

Tachometer Yes Oil pressure Yes
Engine temperature Yes Transmission fluid temp Yes
Engine hour meter Yes

Instrumentation Warnings

Oil pressure Yes Engine temperature Yes
Battery Yes Lights on Yes

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Selected Equip & Specs (cont'd)

Key	Yes	Low fuel	Yes
Door ajar	Yes	Service interval	Yes
Brake fluid	Yes		

Instrumentation Displays

Clock	In-radio display	* Compass	Yes
Exterior temp	Yes	Systems monitor	Yes
* Camera(s) - rear	Yes		

Instrumentation Feature

Trip computer	Yes	Trip odometer	Yes
---------------	-----	---------------	-----

Steering Wheel Type

Material	Urethane	Tilting	Manual
Telescoping	Manual		

Front Side Windows

* Window 1st row activation	Power
-----------------------------	-------

Window Features

* 1-touch down	Driver and passenger	* 1-touch up	Driver and passenger
* Tinted	Deep		

Front Windshield

Wiper	Variable intermittent
-------	-----------------------

Rear Windshield

* Defroster	Yes	Window	Fixed
-------------	-----	--------	-------

Interior

Passenger Visor

Mirror	Yes
--------	-----

Rear View Mirror

Day-night	Yes	* Auto-dimming	Yes
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Headliner

Coverage	Full	Material	Cloth
----------	------	----------	-------

Floor Trim

Coverage	Full	Covering	Vinyl/rubber
----------	------	----------	--------------

Trim Feature

Gear shift knob	Urethane	Interior accents	Chrome
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Lighting

Dome light type	Fade	Front reading	Yes
-----------------	------	---------------	-----

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Selected Equip & Specs (cont'd)

* Illuminated entry	Yes	Variable IP lighting	Yes
<i>Storage</i>			
* Driver door bin	Yes	Front Beverage holder(s)	Yes
Glove box	Locking	* Passenger door bin	Yes
Illuminated	Yes	Instrument panel	Bin
Dashboard	Covered		
<i>Legroom</i>			
Front	43.9"		
<i>Headroom</i>			
Front	40.8"		
<i>Hip Room</i>			
Front	62.5"		
<i>Shoulder Room</i>			
Front	66.7"		
<i>Interior Volume</i>			
Passenger volume	64.6 cu.ft.		

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Warranty

Standard Warranty

Basic

Distance 36,000 miles Months 36 months

Powertrain

Distance 60,000 miles Months 60 months

Corrosion Perforation

Distance Unlimited miles Months 60 months

Roadside Assistance

Distance 60,000 miles Months 60 months

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Price Level: 950 | Quote ID: New4345

As Configured Vehicle

Description

Base Vehicle

Base Vehicle Price (F5H)

Packages

Order Code 660A

Includes:

- Engine: 6.8L 3-Valve SOHC EFI NA V10
- Transmission: TorqShift 6-Speed Automatic (6R140)
Includes SelectShift.
- Wheels: 19.5" Argent Painted Steel
Includes manual locking hubs.
- HD Vinyl 40/20/40 Split Bench Seat
Includes center armrest, cupholder, storage and driver's side manual lumbar.

Powertrain

Engine: 6.8L 3-Valve SOHC EFI NA V10

Transmission: TorqShift 6-Speed Automatic (6R140)

Includes SelectShift.

Limited Slip w/4.88 Axle Ratio

GVWR: 19,000 lbs Payload Upgrade Package

Includes upgraded frame and upgraded rear-axle. Note: See Order Guide Supplemental Reference for further details on GVWR and payload ranges.

Wheels & Tires

Tires: 225/70Rx19.5G BSW Traction (TGK)

Includes 4 traction tires on the rear and 2 traction tires on the front. Not recommended for over the road applications; could incur irregular front tire wear and/or NVH. Optional spare is 225/70Rx19.5G BSW traction.

Wheels: 19.5" Argent Painted Steel

Includes manual locking hubs.

Spare Tire, Wheel & Jack

Required in Rhode Island.

Excludes carrier.

Includes:

- 6-Ton Hydraulic Jack

Seats & Seat Trim

HD Vinyl 40/20/40 Split Bench Seat

Includes center armrest, cupholder, storage and driver's side manual lumbar.

Other Options

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Price Level: 950 | Quote ID: New4345

As Configured Vehicle (cont'd)

Description

Monotone Paint Application

145" Wheelbase

XL Value Package

Includes:

- 4.2" Center-Stack Screen
- Radio: AM/FM Stereo/MP3 Player

Includes 4 speakers.

- SYNC Communications & Entertainment System

Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink, 1 smart-charging USB port and steering wheel audio controls.

- Chrome Front Bumper

- Steering Wheel-Mounted Cruise Control

Power Equipment Group

Deletes passenger side lock cylinder. Includes upgraded door-trim panel.

Includes:

- Accessory Delay

- Advanced Security Pack

Includes SecurILock Passive Anti-Theft System (PATS) and inclination/intrusion sensors.

- Trailer Tow Mirrors w/Power Heated Glass

Includes manual telescoping, heated convex spotter mirror and integrated clearance lamps/turn signals.

- MyKey

Includes owner controls feature.

- Power Front Side Windows

Includes 1-touch up/down driver/passenger window.

- Power Locks

- Remote Keyless Entry

Extra Heavy-Duty Front End Suspension - 7,500 GAWR

Includes upgraded front axle and max 7,500 lbs. Front Springs/GAWR rating for configuration selected. Incomplete vehicle package - requires further manufacture and certification by a final stage manufacturer.

Snow Plow Prep Package

Includes pre-selected springs (see Order Guide Supplemental Reference for springs/FGAWR of specific vehicle configurations). Note 1: Restrictions apply; see Supplemental Reference or Body Builders Layout Book for details. Note 2: Also allows for the attachment of a winch.

6-Ton Hydraulic Jack

Upfitter Interface Module

Utility Lighting System

Includes LED side-mirror spotlights.

Trailer Brake Controller

Includes smart trailer tow connector. Verified to be compatible with electronic actuated drum brakes only.

Platform Running Boards

Rear View Camera & Prep Kit

Upfitters kit includes camera with mounting bracket, 14' jumper wire and camera mounting and aiming instructions. Kit requires video display option to be added to unit. Reference order guide for additional information. Related option content: 872, 585 and 96V.

Includes cab wiring, frame wiring to the rear most cross member and electrochromic mirror with video display. Video displayed in 4" display.

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Price Level: 950 | Quote ID: New4345

As Configured Vehicle (cont'd)

Description

Fixed Rear-Window w/Defrost

Privacy Glass

110V/400W Outlet

Includes 1 in-dash mounted outlet.

Radio: AM/FM Stereo/MP3 Player

Includes 4 speakers.

Includes:

- SYNC Communications & Entertainment System

Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink, 1 smart-charging USB port and steering wheel audio controls.

Wheel Well Liner (Pre-Installed)

Custom accessory.

Fleet Options

Steering Wheel-Mounted Cruise Control

Emissions

50-State Emissions System

Interior Colors

Medium Earth Gray

Primary Colors

Oxford White

Upfit Options

Install Knapheide Platform Body per Attached

Install Knapheide Platform Body Per Attached JC Madigan Spec for Newton Specifications

Keys 5 Keys per spec

Keys 5 Keys per Spec

GPS

GPS per City of Newton Specifications

Install Newton Graphic Package

Install Newton Graphic Package per Spec

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450 Old Union Turnpike
Lancaster, MA 01523
Phone: 978-847-2900
Fax: 978-847-0068

J. C. Madigan, Inc.
Sales Dept.

Fax Quote

To: DOM L. @ MINUTEMAN **From** JOHN DWYER

Co. CITY OF NEWTON CENTRAL GARAGE **Date:** 07/11/2019

FAX# **Phone:** (617) 901-8801

Re: 9' KNAPHEIDE PVMX PLATFORM **CC:**

Urgent **For Review** **Please Comment** **Please Reply** **Please Recycle**

- Heavy Duty "KNAPHEIDE" Steel 9' 3" PVMX Series Platform
- Diamond Plate Steel Floor w/ Underside Tie Down Rail (both sides)
- 12" Removable Steel Rack Sides
- Reinforced Steel Headboard W/ Window
- Recessed LED Body Light kit & High Decibel Backup Alarm
- Undercoated & Painted Black
- Aluminum Diamond Plate I-Pak Toolbox
- Curb & Street Side Black Aluminum Frame Mounted Toolboxes
- Pintle Plate w/ Combo Pintle, D-Rings, 7-Spade RV Plug, & Wired in Electric Factory Brake Controls
- Trucklite # 5070 & 5071 LED Taillight Assemblies Recessed in Pintle Plate
- Poly Fenders Over the Rear Wheels w/ Rear Mud Flaps
- 9' Everest RL Poly Plow & Everest 450/550 Hitch Installed w/ Fisher Hydraulics, Fishstick Controls, Rubber Deflector, ABL LED Plow lights, Guide poles, Cutting Edge, & 36" Curb Shoes
- Weather Tech Floor Mats & Window Shades
- Factory Backup Camera Mounted at Rear
- Install Customer Supplied Electric Sander & Controls
- Atomic Brand LED Clearance Lights/Flashers Over The Cab (2) Whelen IONV3A Front Grill (4) Whelen M2WAC (2) Headlight Mtd. (2) Rear Mtd. (all on Separate switches)
- (2) ECCE W2112 LED Worklights/Backups Rear Mtd.



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Price Level: 950 | Quote ID: New4345

Pricing Summary

TOTAL per UNIT: \$75,140.00

Total for qty (2): \$150,280.00

Total Contract Price / PO Required for Qty 2: \$150,280.00

Customer Signature

Acceptance Date

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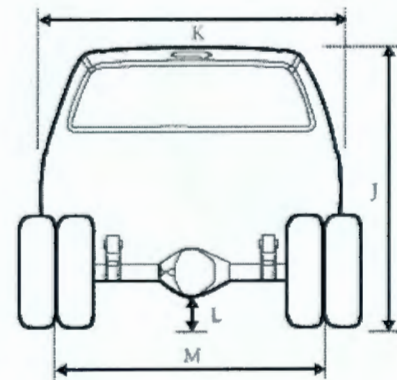
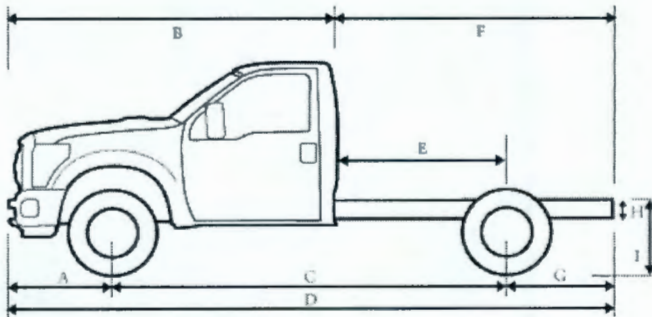


2020 F-550 Chassis 4x4 SD Regular Cab 145" WB DRW XL (F5H)

Price Level: 950 | Quote ID: New4345

Vehicle Dimension and Performance Summary

Performance predictions in this report represent an estimate of vehicle performance based on standard operating conditions. Variations in customer equipment, load configuration, ambient conditions, and/or operator driving techniques can cause significant variations in vehicle performance. These values are not representative of results that may be shown in actual dynamometer tests. This report should therefore be used as a guide for comparative vehicle performance.



Dimensions

A	Front of Bumper to Front Axle	38.30 in.
B	Front Bumper to Back of Cab (BBC)	123.70 in.
C	Wheelbase (WB)	145.00 in.
D	Overall Length (OAL)	230.70 in.
E	Back of Cab to Rear Axle (CA)	60.00 in.
F	Back of Cab to End of Frame	107.20 in.
G	Rear Axle to End of Frame (AF)	47.20 in.
H	Frame Section Height	N/A
I	Rear Frame Height Unloaded	35.10 in.
I	Rear Frame Height Loaded	28.60 in.
J	Cab Height	81.50 in.
K	Body Width	80.00 in.
L	Maximum Ground Clearance	N/A
L	Minimum Ground Clearance	8.20 in.
M	Front Tread	74.80 in.
M	Rear Tread	74.00 in.



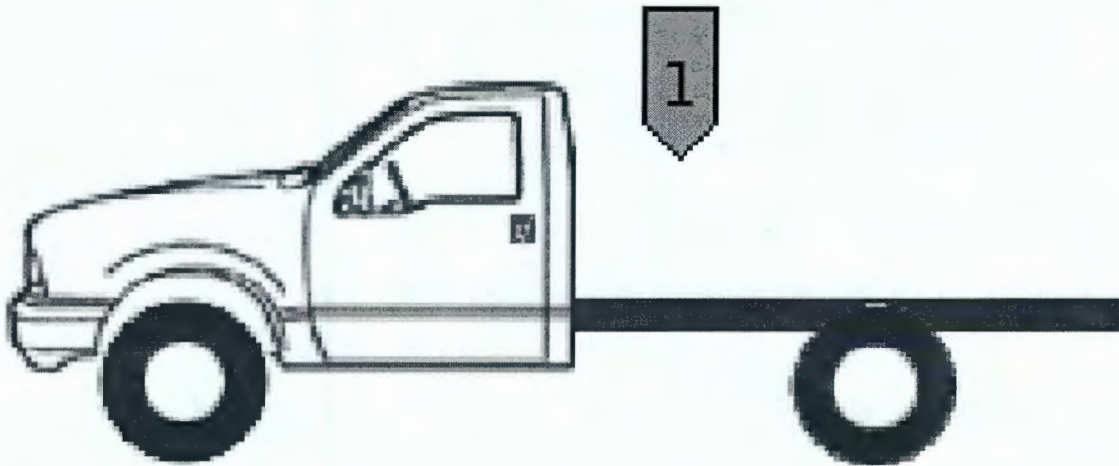
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Minuteman Trucks, Inc. | 2181 Providence Highway Walpole Massachusetts |
020812528

2020 F-550 Chassis 4x4 SD Regular Cab 145" WB DRW XL (F5H)

Price Level: 950 | Quote ID: New4345

Vehicle Dimension and Performance Summary (cont'd)



Weight

GVW	Front Axle	Rear Axle	Totals
Chassis	4,063 lbs	3,231 lbs	7,294 lbs
Body	0 lbs	0 lbs	0 lbs
Occupants Weight	300 lbs	150 lbs	450 lbs
1 Max Payload - (Max Payload)	3,137 lbs	8,119 lbs	11,256 lbs
TOTAL	7,500 lbs	11,500 lbs	19,000 lbs

Ratings	Front Axle	Rear Axle	GVWR
GAWR	7,500 lbs	13,660 lbs	19,000 lbs
Wheels/Tires	7,500 lbs	15,000 lbs	
Suspension	7,500 lbs	15,000 lbs	
Axle	7,500 lbs	14,706 lbs	
Legal Axle Limit	0 lbs	0 lbs	

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



Prepared by: Dominick LaGambina
07/15/2019

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Vehicle Dimension and Performance Summary (cont'd)

Start, Grade and Speed

Start	Ratio	Desired	Calculated
Start grade capability in 1st gear	3.97	15.00 %	24.78 %
Start grade capability in reverse	3.13	15.00 %	19.51 %
Grade	Ratio	Desired	Calculated
Maximum grade in 4th gear	1.15	3.00 %	7.54 %
Maximum grade in 5th gear	0.86	3.00 %	5.63 %
Maximum grade in 6th gear	0.67	3.00 %	4.42 %
Speed		Desired	Calculated
Top Speed (level grade)		75 mph	85 mph
<i>To meet your requirement you need a maximum axle ratio of 8.83</i>			
Top Speed on 3.0% grade		55 mph	
<i>To meet your requirement you need a maximum of 120 hp</i>			
Cruise Speed		60 mph	74 mph
Engine RPM at desired cruise speed			2,121 rpm

Variables in Use

Rear axle ratio:	4.88/4.88	Peak Torque RPM:	3,000 rpm
Tire size:	225/70R19.5 (645 rev/mile)	Frontal Area:	40.28 Sq.Ft.
Gross Vehicle Weight (GVW):	19,000 lbs	Cruising RPM	2,600 rpm
Clutch engagement torque:	212 ft.lbs.	Worst road surface	Typical Highway
Torque conversion ratio:	1.90	Final Drive Ratio:	0.67
Peak engine torque:	424 ft.lbs.	Drag Coefficient	0.80
Engine Power:	288 hp @ 4,000 rpm		

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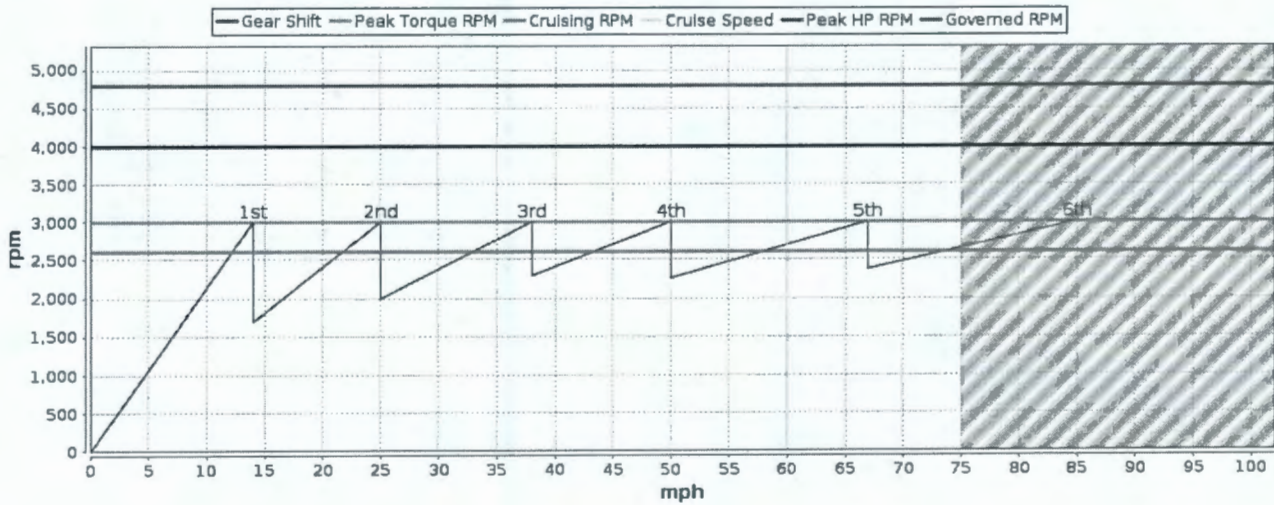
Vehicle Dimension and Performance Summary (cont'd)

Shift Chart

Shift Chart displays mathematical geared speed.

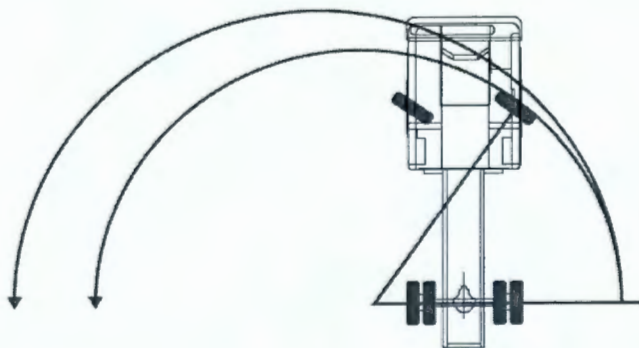
Diesel engines use Governed RPM for shift points.

Gas engines use Peak Torque RPM for shift points.



Turning Radius

Turning Radius 21.25 ft



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Newton Highway #43+ #45 Provided by: Minuteman Trucks and JC Madigan
Request for Quote: (2 trucks) 2020 Ford F-550 XL Super Duty DRW

Dealer:

- Oxford white cab, all grey interior
- 2 Door regular cab
- Regular gas unleaded V10 6.8L
- 6 speed automatic transmission w/OD
- Manual shift 4WD, auto locking hubs (electronic SOTF not offered for F550 regular cab w/gas engine)
- Upgrade to 19,500lb GVWR- 4.88 limited slip rear end (as required with 19,500 payload package)
- 40/20/40 grey vinyl split bench seat, vinyl floor
- Factory air conditioning
- Factory AM/FM stereo with clock
- Factory power windows and door locks, power heated extendable tow mirrors w/ puddle lights
- Factory upfitter module controlled by factory mounted switches
- Factory black platform running boards
- Factory front wheel well liners
- Factory front splash guards
- LT 225/70R19.5 All terrain tires mounted on painted silver steel wheels, full size tire/rim
- Factory towing package including factory trailer brake controller and wire harness, 7-pin spade trailer electrical connection
- Factory back up camera provision prep kit (camera itself to be mounted by body builder)
- Factory back up alarm
- Factory LED roof clearance lights
- Factory 110V/440W interior outlet
- Factory snow plow prep package
- HD alternator
- Fixed rear window w/ defrost
- No CHMSL (blocked by I-pack)
- Factory front splash guards
- 5 total sets of keys
- City specified graphics package through Municipal Graphics in Wrentham- \$800 allowance
- City specified GPS system through AAT- \$300 allowance for parts only

Body Builder:

- Knapheide Westerner 9' black stake body w/BH bulkhead w/3rd brake/flasher cutout, 6" sideboards, underbody sliding tie-down channels and rails. All LED lights.
- HD Aluminum I-pack
- Curbside and streetside underbody toolboxes to completely fill gaps (largest possible), black aluminum diamond plate
- Rear pintle plate with tow rings and HD pintle, Truck-lite LED plate lamp, Truck-lite LED tail lamps (#5070,#5071) mounted inside the pintle plate, 7-prong spade (RV) trailer connector

- Atomic clearance lamp flashers amber w/clear lens. (2) Whelen M2WAC mounted next to headlamps. (2) Whelen IONV3A mounted in grille. (2) Rear bumper mounted Whelen M2WAC flashers. (2) LED rear spot lamps on chassis. (5) total switches- all grill flashers, clearance lamp flashers, all rear facing flashers, rear spot lamps
- Rear poly fender kit and rear mudflaps
- Ford window vent shades, Weathertech all weather floor liners
- Mount back up camera provided by Ford factory prep kit
- Everest 9' RL electric-over-hydraulic snow plow package; including electrical isolation module for lights, rubber deflector foil, steel 5/8" cutting edge, 36" blade guides, ABL LED plow lamps, remote handheld plow controls
- Install City provided electric Meyer sander and controller setup, not responsible for sander operation itself



RUTHIANNE FULLER
MAYOR

City of Newton, Massachusetts
Office of the Mayor

#294-19

Telephone
(617) 796-1100

Telefax
(617) 796-1113

TDD
(617) 796-1089

E-mail
rfuller@newtonma.gov

August 5, 2019

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend \$739,059 and authorize a general obligation borrowing of an equal amount for the purchase of three 6-wheel all season body trucks to be used by the Highway Department during street and snow operations.

Further, I request that your Honorable Council authorize any premium received upon the sale of the bonds or notes, less the cost of preparing, issuing and marketing them, and any accrued interest received upon the delivery of the bonds or notes be applied to the costs of the project being financed by the bonds or notes and to reduce the amount authorized to be borrowed for the project by a like amount.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller

Ruthanne Fuller
Mayor

2019 AUG -5 PM 4:14
David A. Quinn, Clerk
Newton City Hall
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

To: Mayor Ruthanne Fuller
Maureen Lemieux, CFO

From: Jim McGonagle

Subject: (3) Highway 6-Wheel All Season Body Trucks

Date: 7/29/19

I write to request that the Honorable Council docket for consideration a request to authorize the appropriation of \$739,059 for the purchase of three 6-wheel all season body trucks to be used by the Highway Department during street and snow operations. Please see attached backup.

Thank you for your consideration of this matter.

Sincerely,

Jim McGonagle
Commissioner of Public Works

Jim McGonagle
Commissioner

Telephone: (617) 796-1009 • Fax: (617) 796-1050 • jmcgonagle@newtonma.gov

****You must complete this document by answering YES/No for each item contained in the specification. If you check NO you MUST provide supporting documentation with the item # and your reason for the check****

GENERAL

- The equipment required under these specifications is to be used by the City of Newton Public Works Department. The equipment shall be new, of the latest production model as evidenced by the manufacturer's published literature and it shall conform to all specifications contained herein.
- Detailed specifications of the exact equipment offered must accompany the bid. Any and all supplies, parts and/or attachments not specifically mentioned but necessary to ensure a complete and safe product shall be furnished by the successful bidder.
- The equipment shall conform in strength, quality of material, and workmanship to what is usually provided by good engineering practice. Any allied equipment shall be installed in such a manner so as not to adversely affect the original manufacturer's product.

SAFETY

- The completed equipment package shall comply with all applicable Federal and State Motor Vehicle Regulations and Safety standards and codes, and any other applicable regulations in force at the time of delivery. All applicable warnings and warning labels required by law must also be complied with accordingly.

STANDARDIZATION

- All equipment delivered under the contract resulting from these specifications will be built with identical and interchangeable parts and components.

DELIVERY

- Delivery date is an important factor in determining the award and shall be stated as part of the bid. The successful bidder shall deliver the equipment complete, serviced and ready to operate, to the City of Newton Fleet Division. Vehicles or equipment delivered without a delivery appointment will not be accepted upon delivery (617-796-1479).

WARRANTY

- All warranty work shall have a full, no cost, 100% parts and labor coverage. Pickup and delivery of the vehicle shall be included as part of any warranty repair or factory/dealer recall. A manufacturer's authorized representative shall perform the warranty work.
- In addition to the manufacturer's warranty, the awarded contractor must warranty all other allied equipment against faulty workmanship and materials for two (2) years. An official warranty contract statement or information booklet stipulating warranty terms offered must accompany the bid at the time of the bid opening and be endorsed by the manufacturer.

SPECIFICATIONS: It is the intent of this specification that the bidder shall supply three (3) truck chassis, each with a new Hiway XT# Type III combo body on 46,500lb GVWR Chassis (actual GVWR limited by 12R22.5 tires) to the City of Newton as described.

<u>Truck Chassis and Accessories</u>	<u>Compliance</u> <u>Yes/No</u>
1. 2020 Mack Granite 42FR	yes
2. Warranty: 5 Year/50,000 Mile Powertrain 2 Year/24,000 mile bumper to bumper	yes
3. Standard cab painted white	yes
4. CA length to accommodate Swaploader w/ 11' container body and spreader (96" CA)	yes
5. 16,500lb SF front axle/suspension, 30,000lb rear axle/suspension	yes
6. 20" Integral frame extensions	Yes
7. Factory frame thickness upgrade	Yes
8. 12R22.5 tires with full size spare tire on rim	yes
9. Engine: Mack MP7 derated w/ factory 3-Stage compression brake	yes
10. Allison 3000 RDS automatic transmission w/ dual PTO provision, filled w/ synthetic fluid	yes
11. Electronic factory switched rear differential lock	yes
12. Four wheel ABS air brakes	yes
13. Delco 24SI 160A alternator	yes
14. Snow plow prep package	yes
15. Cold weather aids (intake heater, battery blanket, block heater, oil pan heater)	Yes
16. Factory HVAC w/air conditioning	yes
17. Factory upfitter switches	yes
18. Power accessories: windows, door locks, mirrors, (1) 12 Volt Accessory Outlet, heated side mirrors	yes
19. Factory heated windshield	yes
20. Air suspension driver and passenger seats	yes
21. Dual air horns	yes
22. AM/FM radio w/ clock and aux input	yes
23. Driver and passenger factory aluminum boards/steps w/LED step lighting	yes
24. Poly rear fenders mounted with mudflaps	yes
25. Right and left fender mounted spot mirrors	yes
26. AAT GPS supplied as parts only- \$200 allowance	yes
27. City specified graphics package- \$1,000 allowance	yes
28. Five (5) sets of keys	yes
29. CDL safety kit: Reflective triangles, spare fuses, first aid kit, 1 Mtd 5lb fire ext	yes
Body Builder Specific:	
30. Hydraulics: Single transmission mounted gear pump PTOs w/ appropriate tankage/filtration. Tank sight glass and low oil level alarm in cab. Power beyond for future optional use.	yes
31. 11' (for 96" CA) Hiway SS XT3 type 3 spreader. Options: Front and rear SS cab shields. AR400 conveyor cover. SS underbody pan. No top grates. SS driver's side ladder. Angled side boards. 3 scuttle chutes. Electric prewet system. Speed sensors for closed loop. LED Lights. Electric Aero auto aluminum load cover system w/mesh tarp and control switch mounted to driver's seat.	yes
32. Rear pintle plate with D-rings, pintle and vertical bucket guards to protect rear plate components from dumping into loader buckets	yes

33. Color backup camera w/ LCD Display: Can be integrated with am/fm radio to replace factory radio	Yes
34. Air brake glad hands mounted high on both sides of the pintle plate w/ 7-pin spade (RV) trailer plug	Yes
35. Aftermarket electric trailer brake controller, wired to rear 7-pin RV trailer plug	Yes
36. Lights: (2) SS Rear light bars with amber flashers, STT/running lights, reverse lights. (2) Truck-lite LED tail lamps (#5070,#5071) mounted inside pintle plate.	Yes
37. Two (2) Switched rear facing LED spot lights installed at the back of the chassis facing rearward Ecco	Yes
38. Whelen Liberty II amber roof mounted lightbar	Yes
39. Plow light setup mounted to hood w/ABL LED plow lamp kit and stainless steel plow lamp pedestals, wired to factory plow lamp switch	Yes
40. Two (2) Whelen IONAW LED flashers installed on plow light brackets, not to be obstructed by plow frame	Yes
41. Back up alarm 102 dBA	Yes
42. SS tool box (1): Shall be mounted on curb side between rear of cab and rear tires, shall be installed in a manner as to meet the state guidelines for bike guards on commercial vehicles, streetside shall also meet same guidelines	Yes
43. Visual and audible body up alarm buzzer in cab w/ Buyers#B95W B/U Switch	Yes
44. 10' x 42" Tall Everest HD steel double ram cushioned snow plow, PT hitch w/ clamp jaw adapter for easy hookup	Yes
45. Cirrus closed loop ground speed controls, calibrated to correctly operate Hiway spreader as described. Custom aluminum stantion for Cirrus controller.	Yes

MACK



PRICING SUMMARY GRANITE 42FR

VEHICLE PRICE

BASE SELLING PRICE \$246,353.00

TAX SUMMARY

FRET

AMT. SUBJECT TO TAX

\$246,353.00 \$0.00

TOTAL SELLING PRICE (PER UNIT)

\$246,353.00

TOTAL DEAL PRICE (QTY: 3)

\$739,059.00

NEWTON CITY OF

DATE

BALLARD MACK SALES & SERVICE, INC.

DATE



#294-19



In Progress

NEWTON CITY OF
110 CRAFTS ST OF
NEWTON 00000
MA

Date 6/11/2019
Quote no. PICK2019000595A595
Your ref.

Technical Specification

Please find below the Technical Specification for your new Mack Truck(s).

GRANITE 42FR

APPLICATION PACKAGES

STANDARD GROUND CLEARANCE (most applications)

CUSTOMER/VEHICLE INFO

GRANITE 42FR

2020A Pricebook

2021 MODEL YEAR

US - WARRANTY REGISTRATION LOCATION

MUNICIPAL

ALL 50 STATES, CARB ENGINE EMISSION (US17)

Made in Macungie, PA USA

ENGLISH

DUMP TRUCK

55,000 LB (25 TONNES) GROSS COMBINATION WEIGHT

BRAKE REGULATION, STOPPING DISTANCE 94M (310FT)

GRADES <3% GREATER THAN 98% OF DRIVING DISTANCE MAX GRADE 8%

AMBIENT TEMPERATURE HOT. WARMER THAN 104 F (40 C) ALLOWED UP TO 25 HOURS PER YEAR

TURNPIKE / INTERSTATE, STARTING / OPERATING GRADES 3% MAX

ASPHALT LOADING AND / OR UNLOADING SURFACE

PICKUP & DELIVERY / SHORT HAUL SERVICE

ENGINE/TRANSMISSIONS

MP7-325M MACK 325HP @ 1400-1900 RPM (PEAK) 2100 RPM (GOV) 1260 LB-FT, US'17

3000 RDS 6-SP ALLISON GEN5 W/PROGNOSTICS, WITH PTO PROVISION

ENGINE GOVERNOR TYPE MIN-MAX

EXHAUST/EMISSIONS



#294-19



Date 6/11/2019

Quote no. PICK2019000595A595

In Progress

IDLE EMISSION CERTIFICATION, CARB (WITH DECAL LOCATED ON LOWER LH CORNER / DRIVER DOOR
CLEARTECH ONE BOX E.A.T.S. RH SIDE UNDER CAB US17
DPF COVER STAINLESS STEEL, POLISHED
SINGLE VERTICAL RIGHT SIDE CAB MOUNTED, LOWER VENTURI DIFFUSER, TURNED END
9' 6" FROM GROUND
SINGLE, BRIGHT FINISH HEAT SHIELD AND SCR COVER (IF EQUIPPED)
6.6 GALLON (25 L) 22" INTEGRAL TO LH FUEL TANK
WITHOUT DEF TANK VENTILATION FILTER
EMISSION OBD, DISPLAY ONLY, USA2018

ENGINE EQUIPMENT

11" x 30" (279 mm x 762 mm) UNDER HOOD SINGLE ELEMENT DRY TYPE W/AIR INTAKE FROM BOTH SIDES OF HOOD
INSIDE/OUTSIDE AIR INTAKE W/ IN-CAB CONTROL FOR SNOWPLOWS
BLACK ALUMINUM MOUNTED BEHIND GRILLE, WITHOUT WINTER FRONT COVER
MERITOR/WABCO 318 (18.7 CFM)
DELCO 12V 160A (24SI) BRUSH-TYPE
(3) MACK 12V 730/2190 CCA THREADED STUD
ETHYLENE GLYCOL EXTENDED LIFE COOLANT (50/50 MIX DYED RED) TO -34DEG, W/ LONG LIFE FILTER
BEHR FAN AND ELECTRONIC MODULATING VISCOUS FAN DRIVE
MACK MP7 POWERLEASH
MACK W/MANUAL DRAIN VALVE (INTEGRAL W/PRIMARY FUEL FILTER)
LH RAIL UNDER CAB FORWARD OF FUEL TANK (3 BATTERY MAX)
MOLDED PLASTIC
SILICONE RADIATOR & HEATER HOSES W/BREEZE CONSTANT TORQUE CLAMPS ON ALL COOLANT LINES
12 VOLT DELCO 39MT-MXT
CORROSION RESISTANT OIL PAN
120V 1500W ENGINE BLOCK HEATER
120V 1500W BLOCK HEATER, W/150W OIL PAN HEATER WIRED TO SAME RECEPTICAL ELECTRIC PREHEATER

CLUTCH/TRANS EQUIPMENT

ALLISON DASH MOUNTED SHIFTER W/NEUTRAL TO RANGE INHIBIT (HD SERIES)
SPICER 1760 W/COATED SPLINES
TRANSYND SYNTHETIC LUBE FOR ALLISON TRANS
FURNISH FOR ALLISON TRANSMISSION W/DIRECT MOUNT COOLER
UNIVERSAL JOINT HALF-ROUND TYPE
TRANSMISSION OUTPUT TORQUE BASIC



#294-19



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In Progress

ALUMINUM

FURNISH TC421 FOR USE W/ALLISON 3000 SERIES TRANSMISSION

FRONT AXLE EQUIPMENT

16500# (7500 KG) MACK FXL16.5 STRAIGHT SPINDLE/UNITIZED BEARINGS

MACK MULTILEAF 16500# (7500 KG) GROUND LOAD RATING

MERITOR "S" CAM TYPE 16.5" x 6" Q+

CAST IRON

DUST SHIELDS FOR FRONT AXLE

FRONT BRAKE CHAMBER MANUFACTURER, MGM

HALDEX - AUTOMATIC

FRONT BRAKE CHAMBER 30SQ INCHES (SERVICE)

FERROUS

DOUBLE ACTING TYPE

SHEPPARD SD110

PETROLEUM/SYNTHETIC (50/50) OIL FRONT AXLE

REAR AXLE EQUIPMENT

30000# (13600kg) MERITOR RS-30-185 SINGLE REDUCTION

VENDOR CARRIER

5.63 RATIO

30000# MULTILEAF W/HELPER NO ANTI-SWAY

MERITOR CAM 16.5"x7" P BRAKES

CAST IRON

HALDEX - AUTOMATIC

REAR SPRING BRAKE CHAMBERS 36/36 TYPE

DUST SHIELDS FOR REAR AXLE

FERROUS

75W - 90 (SYNTHETIC LUBRICANT)

MGM TR-T; TAMPER-RESISTANT BRAKE CHAMBERS

DRIVER CONTROLLED INTER WHEEL DIFFERENTIAL LOCK FRT RR AXLE, MANUAL AIR VALVE W/WARNING LIGHT.

4S/4M SYSTEM REAR WHEEL END SENSORS

BENDIX WITHOUT TRACTION CONTROL

FRAME EQUIPMENT/FUEL TANKS

183"

63"

STEEL - 300MM X 90MM X 11.1MM - (11.81" X 3.54" X 0.437")

BUMPER POSITION EXTENDED 20" (SNOW)

STANDARD 2 STEP CAB ACCESS



#294-19



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In Progress

BOC AND INTERMEDIATE(S) STEEL HD BACK-TO-BACK CHANNEL
FURNISH STANDARD STEEL CLOSING REAR CROSSMEMBER
W/O FAST FILL FUEL SYSTEM OPTION
BLACK POLYARMOUR (NO NAME TO APPEAR ON FLAP) (NOT ANTI-SPRAY TYPE)
EXTENDED-SWEPT BACK-STEEL
HOOKS
66 GALLON (250 L) 22" ALUMINUM, SLEEVED D-SHAPED
BASIC FUEL LEVEL SENDER MOUNTED ON L.H TANK
W/O RH FUEL TANK
BRAIDED HOSE
NON-LOCKABLE FUEL TANK CAP
STANDARD FINISH STEPS AND BRIGHT FINISH STRAPS

AIR/BRAKE

WABCO 1200P W/TURBO CUT OFF VALVE, W/COALESCING OIL FILTER, HEATED
MANUAL (PETCOCK) DRAIN VALVES ON ALL TANKS
STEEL
TWO (2) VALVE DUAL BRAKE SYSTEM - TRAILER SUPPLY AND TRACTOR-TRAILER PARK

ELECTRICAL

RH/LH LED WORK LIGHT (STEPS & GROUND) ON BOTH SIDES TRUCK
(5) GROTE LED LAMPS
W/INTERMITTENT FEATURE (AMBIENT NOISE SENSITIVE) 87-112 dB
DASH CTRL/PWR SUPPLY/LOCAL INST PLOW LAMPS W/LEAD FURN@ GRILL W/2W/3W
WEATHER PACK CON
INCANDESCENT TAIL LAMPS
SIX (6) ASSIGNABLE BODYBUILDER DASH SWITCHES (5 ON-OFF, 1 MOMENTARY)
PARK BRAKE AND ENGINE RUNNING ACTIVATED

TRAILER CONNECTIONS

GLAD HAND COUPLINGS - NORTH AMERICAN STD
HAND CONTROL VALVE FOR TRAILER OR REAR SERVICE BRAKES - DUAL FUNCTION
TRAILER AIR BRAKE CONNECTIONS, END OF FRAME
SINGLE 7 PINS STD SAE TYPE, END OF FRAME

PTO

TRANSMISSION PTO SWITCH AND LIGHT WITH WIRING AND PIPING FOR LOCAL
INSTALLATION
1350 SERIES FLANGE (DOES NOT INCLUDE FRONT FRAME EXTENSION)
BODY LINK III W/CAB PASS-THRU

SPECIALTY EQUIPMENT

WITHOUT SPEED LIMIT SIGN RECOGNITION



#294-19



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In Progress

WITHOUT AUXILIARY TRANSMISSION
WITHOUT AUXILIARY TRANSMISSION LOCATION

CAB INTERIOR (A THRU G)

AUX. INCAB PNEUMATIC LINE CLEANOUT
BLEND AIR HVAC W/"ATC" TEMP REGULATION
DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP"
(4) DOME LAMPS - DOOR AND SWITCH ACTIVATED
5LB (ABC RATED/AMEREX) MOUNTED BETWEEN LH SEAT BASE AND DOOR WITH VALVE
AIMED REARWARD
POLYURETHANE FLOOR MAT
EXHAUST PYROMETER GAUGE
U.S. UNITS (PREDOMINANT)

CAB INTERIOR (H THRU R)

DEFAULT: ENGLISH, SPANISH, FRENCH
ALL CHASSIS KEYED AT RANDOM
(2) STORAGE COMPARTMENTS AND NET RETAINERS W/CENTER MOUNTING FOR CB
PROVISIONS
PREMIUM STEREO, AM/FM, CD-PLAYER, MP3, WEATHER BAND, BLUETOOTH
RADIO ANTENNA, CAB MOUNTED BEHIND LH DOOR
PREP KIT FOR MOUNTING ON LT SIDE MIRROR (W/O ANTENNA)
AUTO SHUTOFF FOR RADIO ENTERTAINMENT SYSTEM WHEN VEHICLE IS ENGAGED IN
REVERSE
POWER LEADS (5-WAY BINDING POSTS FOR CB RADIO) IN HEADER CONSOLE
SPEAKER LOCATION, IN DOORS, MIDDLE HIGH SIDE PANEL
CB RADIO MOUNTING REINFORCEMENT IN HEADER CONSOLE
REAR WINDOW (FIXED TYPE)
W/O SLEEPER BOX FURNISH KIT PARALLEL TO INSIDE SURFACE OF RIDER'S SEAT BASE

CAB INTERIOR (S THRU Z)

DRIVER'S SEAT - STEEL GREY VINYL
MACK-AIR, HIGH BACK, 1 CHAMBER AIR LUMBAR
MACK-AIR, HIGH BACK, 1 CHAMBER AIR LUMBAR
PASSENGER'S SEAT - STEEL GREY VINYL
LAP & SHOULDER HEIGHT ADJUSTMENT D-RING SEATBELT RH/LH ORANGE IN COLOR
STANDARD PACKAGE, STEEL GRAY (Package 11A)
KEY TYPE
HEATED TINTED WINDSHIELD, TINTED SIDE AND REAR WINDOW
2 SPOKE URETHANE GRIP, GUNMETAL SPOKES, W/O SWITCHES
SUN VISOR - BOTH SIDES
2-PIECE WINDSHIELD



#294-19



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In Progress

2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE

CAB EXTERIOR

WITH INSPECTION HATCH FOR SNOWPLOW HOOD

PAINTED HOOD LATCHES

(2) MACK RECTANGULAR SINGLE TRUMPET, BRIGHT FINISH ALUMINUM W/SNOW SHIELDS

DUAL TONE

GRILLE PAINTED GRAY

WITH AERO MIRRORS

BULLDOG STYLIZED MIRRORS - LH & RH HEATED & MOTORIZED AND ILLUMINATED W/INTEGRAL CONVEX MIRROR

8" ROUND BF FENDER MTD W/SS BRACKETS & ADJ. ARMS R.H. & L.H. (Same as 15H2001) WITH AERO MIRRORS

RECTANGULAR CONVEX ABOVE RH DOOR WINDOW

AUX. WIN. DOOR ON RIGHT SIDE NON STG WHL POS. DEPEND

REAR CAB SUSPENSION, AIR

BF EXTERIOR CAB GRAB HANDLES, BLACK GRAB HANDLE RH INTERIOR WINDSHIELD POST

SILVER PAINTED W/O GRILLE SURROUND

WHEELS & TIRES

BASIC ROLLING RESISTANCE, POOR FUEL ECONOMY

12R22.5 H GOODYEAR G751 MSA (14780 lbs)

22.5x8.25 ACCURIDE STEEL DISC 10-HOLE HUB PILOTED, HEAVY DUTY, TWO HAND HOLES, (11 1/4"/286mm BC)

TWO FRONT TIRES & WHEELS

OTHER (NON-SPECIFIED), VERY POOR FUEL ECONOMY

12R22.5 H GOODYEAR G622 RSD (27120 lbs) (DRIVE ONLY)

22.5x8.25 ACCURIDE STEEL DISC 10-HOLE HUB PILOTED, TWO HAND HOLES - HEAVY DUTY

W/O REAR DISC WHEEL BRIGHT FINISH

FOUR REAR AXLE TIRES & WHEELS

DRIVE WHEEL STUDS BASIC LENGTH

WHEEL NUT BASIC FINISH, REAR

STANDARD VALVE STEMS AND CAPS

COMMUNICATION SYSTEMS

DISPLAY FEATURES, LIMITED, NO DRIVER ACCESS LEVEL 1

TELEMATICS GATEWAY, 4G/LTE AND WLAN SYSTEM WITH DIAGNOSTIC SERVICES

REMOTE SOFTWARE UPGRADE ENABLED

ENGINE ELECTRONICS



#294-19



Date 6/11/2019

Quote no. PICK2019000595A595

In Progress

WITHOUT ENGINE SOFTWARE SETTINGS
OIL PRESSURE, ENGINE SHUTDOWN
COOLANT TEMP, ENGINE SHUTDOWN
ENGINE PROTECTION (SHUTDOWN)
IDLE CONTROL, 650 RPM
INCREASE 10 MINUTE MAXIMUM TIME
IDLE SHUTDOWN ABS TAMPER CHECK, ENABLED
ENGINE IDLE COOLDOWN, DISABLE
ENGINE IDLE SHUTDOWN, DISABLE
IDLE SHUTDOWN TIME 10 MIN.
38C DEG (100F), WARM UP TEMP DELAY
5 MIN. WARM UP TIME DELAY
ENG IDLE SHUTDOWN TIME OVERRIDDEN IF TORQUE > THAN LIMIT
AMBIENT TEMP MIN TRESHOLD, 16 DEG C, (60 DEG F)
AMBIENT TEMP MAX TRESHOLD, 27 DEG C, (80 DEG F)
ELECTRONIC HAND THROTTLE, MAX ROAD SPEED, 16 KMH (10 MPH)
ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 2100 RPM
ELECTRONIC HAND THROTTLE, MIN ENGINE SPEED, 700 RPM

TRANSMISSION ELECTRONICS

223 ON/OFF HIGHWAY, W/O AUTO NEUTRAL, W/O RDCI, AUX FUNCTION RANGE INHIBIT
W/O TRANSMISSION ELECTRONIC SHIFTING PROPERTIES
ECONO ROLL DISABLE mDRIVE (REQUIRED FOR ALL OTHER TRANSMISSIONS)
MACKCELLERATOR DISABLE

VEHICLE ELECTRONICS

DRIVER ID FUNCTION, DISABLED
ENGINE OVERSPEED, ALL CONDITIONS, TIME LOG IF ABOVE 2200 RPM
ENGINE OVERSPEED, FUELED, TIME LOG IF ABOVE 2100 RPM
VEHICLE OVERSPEED, ALL COND, TIME LOG IF ABOVE 75MPH (121KMH)
VEHICLE OVERSPEED, FUELED, TIME LOG IF ABOVE 70MPH (113KMH)
ENGINE IDLE DELAY TO START LOG, 2 MIN
PERIODIC TRIP LOG, DAY 1 OF THE MONTH
DETECTION OF SPEED SENSOR TAMPERING, ENABLE
ENG TORQUE LIMITED TO 50%, IF SPEED SENSOR TAMPER DETECTED
ENGINE HIGH IDLE SPEED IN UPPER GEARS, DISABLED
1950 MAXIMUM ENGINE SPEED AT 0 MPH
105 KM/H ROAD SPEED LIMITER(65 MPH)
105 KM/H PEDAL ROAD SPEED LIMITER (65MPH)
RSL CONTROL TYPE NORMAL



#294-19



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In Progress

DISABLE POWER DIVIDER LOCK OUT (PDLO) ROAD SPEED LIMIT
MAX CRUISE, 105 KPH (65 MPH)
MIN CRUISE, 32 KPH (20 MPH)
ENG BRK ENGAGE IN CRUISE, 3 MPH, ABOVE SET SPEED
CRUISE CONTROL

PTO ELECTRONICS

PTO 1ST, AUTO SET SINGLE SPEED, DISABLE
PTO 2ND, AUTO SET SINGLE SPEED, DISABLE

PAINT

SINGLE COLOR
SOLID PAINT
MACK WHITE; P9188
PAINT - CAB, URETHANE CLEAR COAT
SAME AS FIRST COLOR - CAB
SAME AS FIRST COLOR - HOOD
MACK BLACK (URETHANE)
PAINT BUMPER SAME COLOR AS CHASSIS RUNNING GEAR
PRE-FINISHED POWDER COAT WHITE
PRE-FINISHED POWDER COAT WHITE
WITHOUT OPTIONAL SPOKE WHEEL PAINT
WITHOUT OPTIONAL SPOKE WHEEL PAINT
SAME AS CHASSIS RUNNING GEAR
SAME AS CHASSIS RUNNING GEAR

BASE WARRANTY & PURCHASED COVERAGES

HEAVY DUTY WARRANTY CLASSIFICATION
HEAVY DUTY STANDARD BASE COVERAGE 12 MONTHS/100,000 MILES (161,000 KM)
MACK MP7/MP8 BASE ENGINE COVERAGE 24 MONTHS / 250,000 MILES (402,000KM)
US and CANADA EQUIPPED VEHICLE EMISSION COMPONENTS COVERAGE 60
MONTHS/100,000 MILES (161,000 KM)
ALLISON TRANSMISSIONS (Contact Allison Transmission for standard warranty and extended
coverage data
STANDARD VENDOR NORMAL / HEAVY DUTY COVERAGE 36 MONTHS/350,000 (563,00
KM)
AIR CONDITIONING STANDARD COVERAGE (Sealed System Only) 12 MONTHS UNLIMITED
MILEAGE
STANDARD NORMAL / HEAVY DUTY CHASSIS TOWING 90 DAYS OR 5,000 MILES
STANDARD MACK ENGINE TOWING COVERAGE 24 MONTHS/250,000 MILES (402,000 KM)
24 MONTH - GUARDDOG CONNECT WITH MACK OTA (with ASIST and Mack OneCall))



#294-19



In Progress

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Internal Workshop

prep
one spare tire
\$200 GPS allowance
\$1000 graphics allowance
engine plan 2 w/EATS 5yr 250,000 miles
chassis plan 2 yrs 200,000 miles
allison plan total 5 yrs
meritor 5yr axle carrier plan
pick up warranty work only
battery blanket
icc
body per JC Madigan quote
GBPC

J.C. MADIGAN INC.
450 OLD UNION TURNPIKE
LANCASTER, MA.

SALES DEPT.
TEL. (978)847-2900
FAX (978)847-0068

QUOTE: CITY OF NEWTON CENTRAL MAINT.

TO SHAWN R. @ BALLARD MACK

FROM JOHN DWYER

A) 11FT 7.6/11.2 CUYD REAR DISCHARGE 304 STAINLESS STEEL MATERIAL SPREADER / DUMP BODY HI-WAY MODEL XT-3 TYPE-III INSTALLED ON A TOWN SUPPLIED CHASSIS UNDERCOATED AND ALL NON-STAINLESS ITEMS PAINTED ONE COLOR WITH THE FOLLOWING EQUIPMENT.

- 1) 32" STAINLESS CABSHIELD (MAX. HEIGHT 11')
- 2) AR-400 REMOVEABLE CONVEYOR COVER
- 3) SIDE MOUNTED STAINLESS ACCESS LADDER W/ HANDLE
- 4) 102DBA BACKUP ALARM W/ BUYER'S B95W BU SWITCH
- 4A) 102dba LIFT ALARM W/ AUDIBLE & VISUAL IN-CAB ALERTS
- 5) REAR MOUNTED POLY SPINNER ASSEMBLY
- 6) 20 TON TELESCOPIC HOIST ASSEMBLY / TAILGATE D-RING
- 7) UNDERBODY MOUNTED HI-WAY STAINLESS SPILLSHIELD
- 8) HI-WAY SUPPLIED STAINLESS ANGLED SIDEBOARDS
- 9) CRADLE MTD. DRIVER'S ACCESS STEP
- 10) AERO AUTO/ELECTRIC TARPING SYSTEM W/ ALUM. ARMS, SWITCH LOCATED ON DRIVER'S SEAT, AND ASPHALT TARP
- 11) 3/4" PINTLE PLATE W/ 25T PINTLE, D-RINGS, GLAD HANDS, ELECTRIC BRAKE CONTROLS, AND 7-PRONG RV PLUG
- 12) POLY FENDERS, REAR, AND TRANSVERSE REAR AXLE MUDFLAPS
- 13) STAINLESS SANDER LINES PIPED TO THE REAR
- 14) FRONT, SIDE, & REAR RECESSED LED FLASHERS, LED STOP/TAILS, AND REVERSE LIGHTS
- 15) REAR BACKUP CAMERA W/ IN-CAB COLOR DISPLAY
- 16) (2) SPINNER (2) REAR MOUNTED LED WORKLIGHTS
- 17) (2) FENDER MOUNTED STAINLESS PRE-WET TANKS W/ ELECTRIC PRE-WET SYSTEM
- 18) LED TAILLIGHT ASSEMBLIES RECESSED IN THE PINTLE PLATE
- 19) (2) ADDITIONAL 304 STAINLESS COAL DOORS
- 20) (2) (SS) TOOL BOXES TO FILL GAPS ON BOTH SIDES

21) CAB ROOF MTD. WHELEN MINI LIBERTY II

B) 10' FT 39" HIGH STYLE STEEL MOLDBOARD TRIP EDGE SNOW PLOW EVEREST MODEL R120TEL39PH WITH HYDRAULIC REVERSING MODE, CUTTING EDGE, CURB AND WEAR SHOES, CLAMP JAW STYLE QUICK COUPLER, AND GUIDEPOLES.

C) EVEREST CUSTOM POWER TILT PLOW FRAME MODEL PT INSTALLED WITH HOOD MOUNTED ABL LED PLOWLIGHTS, STAINLESS MOUNTS W/ WIONA FLASHERS, AND 30.5" & 21" ON CENTER PIN LOCATIONS

D) TRANSMISSION MOUNTED CENTRAL HYDRAULIC SYSTEM WITH A CHELSEA HOTSHIFT PTO WITH IN-CAB CONTROLS AND VALVE BODY TO CONTROL DUMP, 4-WAY PLOW, AND POWER BEYOND.

- 1) IN-CAB MOUNTED LOW FLUID LEVEL WARNING LIGHT
- 2) CIRUS SPREAD SMART RX CLOSED LOOP GROUND SPEED CONTROLS W/ GPS, WIRELESS DRIVE BY, AND ROADWATCH

PRICE \$111105.00

(96" CA, FRONT FRAME EXT, PTO PROV, PLOW LIGHT PREP, 4 AUX SWITCHES,)

APPROVAL _____ DATE _____

PO# _____ 06/12/2019