



6/16/2020

Crown Castle Small Cell Site

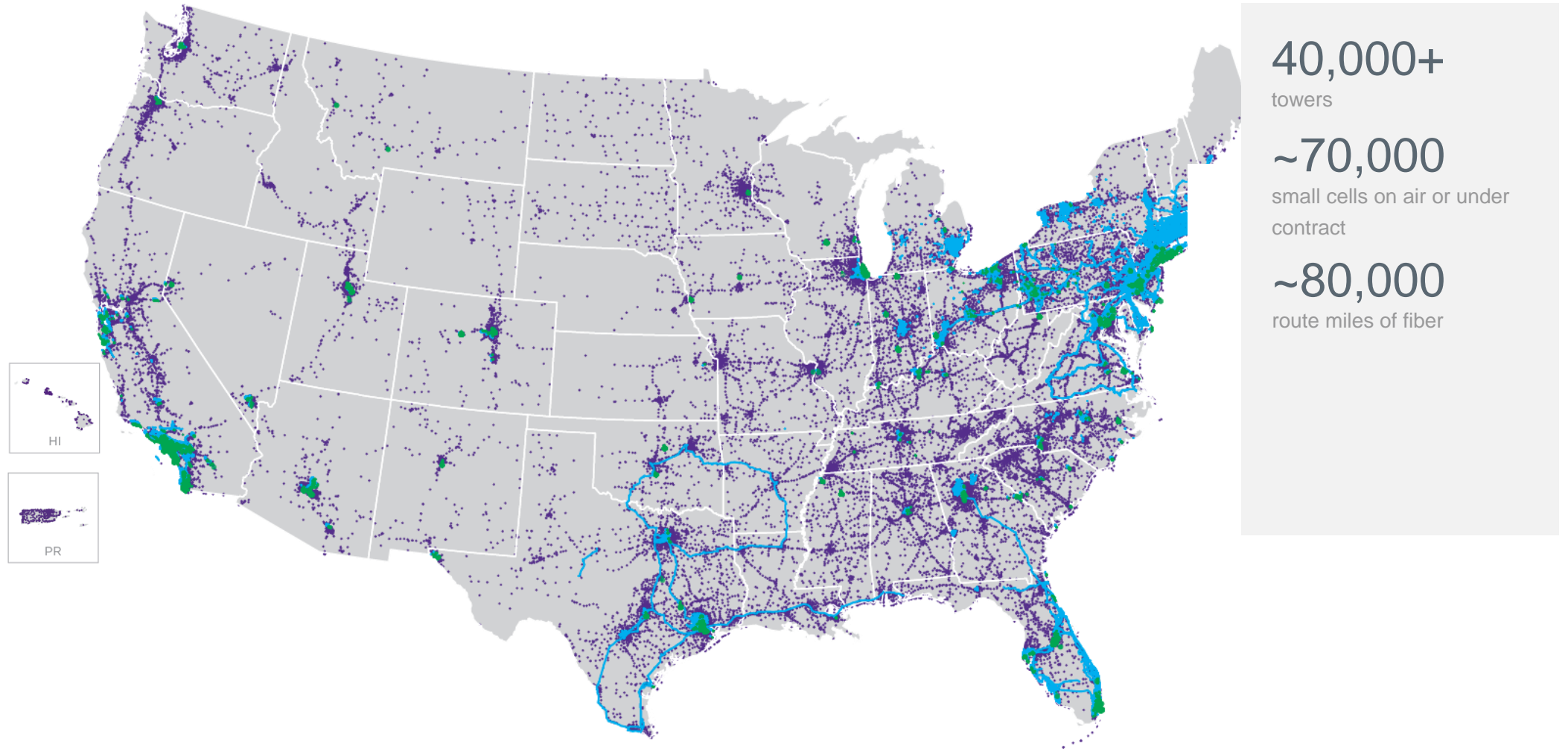
Lightpole in Front of 31 Park Dr. Boston, Ma

Boston Landmarks Commission



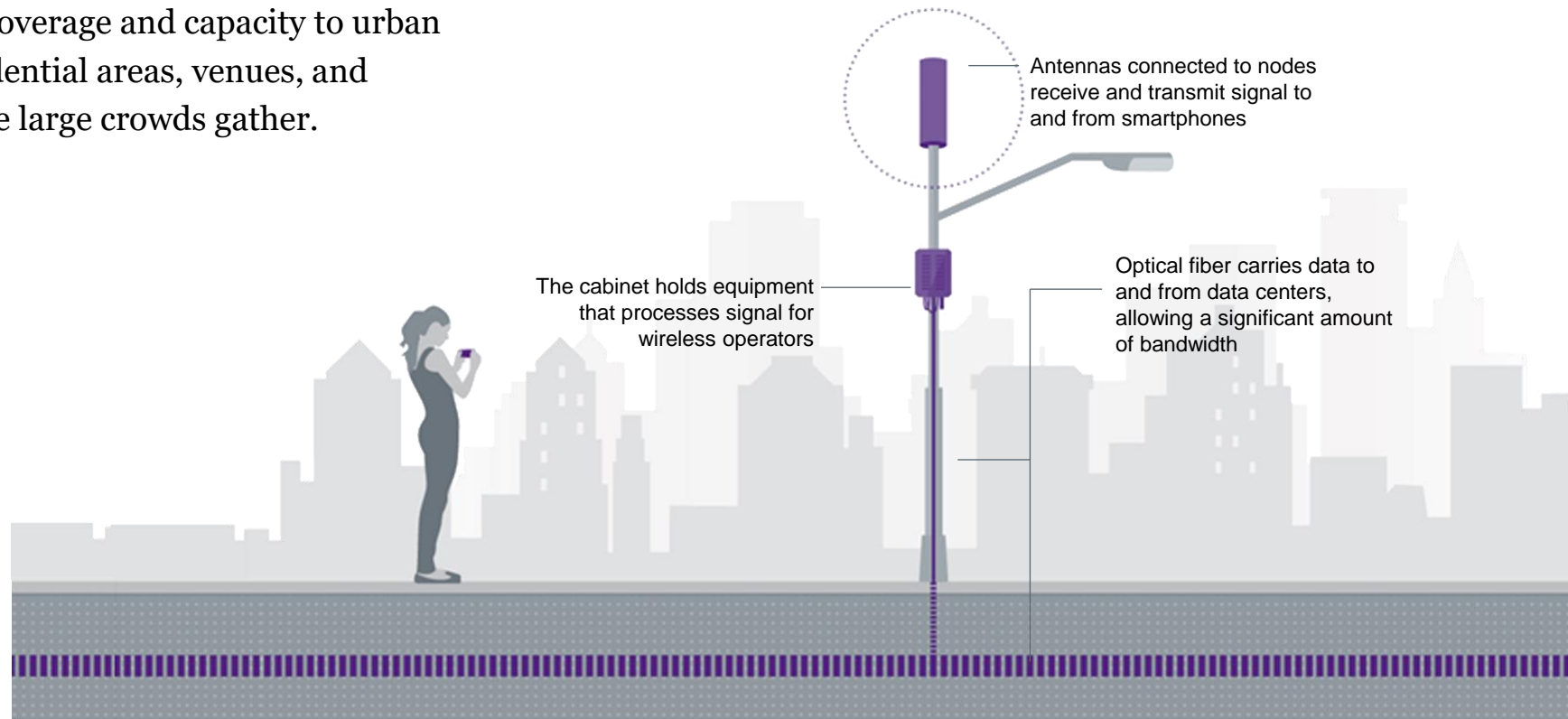
Proprietary &
Confidential

Crown Castle is the nation's leading wireless infrastructure provider in Towers, Fiber and Small Cells



What are small cell solutions?

Small cell solutions (SCS) are a complement to towers that add much needed coverage and capacity to urban and residential areas, venues, and anywhere large crowds gather.





Leaflet | Powered by Esri | HERE, DeLorme, Mapbox, OpenStreetMap contributors, and the OpenStreetMap community

LOOKING SOUTH ALONG PARK DR



EXISTING PHOTOGRAPHIC VIEW
42.343889°, -71.094967°

NOTE:
REPLACEMENT POLE PAINT COLOR TO BE BENJAMIN MOORE GREY.
(VARIATIONS IN PHOTO SIMULATION COLOR MAY BE DUE TO LIGHTING OR PRINTER & SCREEN SETTINGS.)



PROPOSED PHOTOGRAPHIC SIMULATION
42.343878°, -71.094959°

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

BOSTON, MA

POLE OWNER: DCR

NOTES:

PREPARED FOR:



PREPARED BY:



21 Oxford St
Mansfield, MA 02548
www.piketelcom.org
1-888-337-7400

REVISIONS

REV	DESCRIPTION	DATE
1	UPDATED RADIO CASE	10/27/18
2	REVISED ANTENNA	11/23/18
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	02/27/19

DRAWING TITLE:

PHOTOSIM

DRAWER: DTB	DRAWING NO. 5
SCALE: NTS	
ISSUE DATE: 08/15/17	
INDEX NAME: SC-M4-0333	

LOOKING NORTH ALONG PARK DR



EXISTING PHOTOGRAPHIC VIEW
42.343889°, -71.094967°

NOTE:
REPLACEMENT POLE PAINT COLOR TO BE BENJAMIN MOORE GREY.
(VARIATIONS IN PHOTO SIMULATION COLOR MAY BE DUE TO LIGHTING OR PRINTER & SCREEN SETTINGS.)



PROPOSED PHOTOGRAPHIC SIMULATION
42.343878°, -71.094959°

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

BOSTON, MA		
POLE OWNER:	DCR	
NOTES:		
PREPARED FOR:		
PREPARED BY:	 21 Oxbow Rd Mansfield, MA 02048 www.piketelcom.com 1-508-337-7800	
REVISIONS		
REV	DESCRIPTION	DATE
1	UPDATED RADIO CASE	10/27/18
2	REVISED ANTENNA	11/15/18
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	03/27/20
DRAWING TITLE:		
PHOTOSIM		
DRAWER:	DTR	DRAWING NO.:
SCALE:	NFS	6
ISSUE DATE:	08/15/17	
INDEX NAME:	SC-BA-0330	

LOOKING WEST FROM PARK DR



EXISTING PHOTOGRAPHIC VIEW
42.343889°, -71.094967°

NOTE:
REPLACEMENT POLE PAINT COLOR TO BE BENJAMIN MOORE GREY.
(VARIATIONS IN PHOTO SIMULATION COLOR MAY BE DUE TO LIGHTING OR PRINTER & SCREEN SETTINGS.)



PROPOSED PHOTOGRAPHIC SIMULATION
42.343878°, -71.094959°

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

BOSTON, MA

POLE OWNER: DCR

NOTES:

PREPARED FOR:



PREPARED BY:



21 Oxford Rd
Marlborough, MA 02048
www.piketelcom.org
1-800-337-7600

REVISIONS

REV	DESCRIPTION	DATE
1	UPDATED RADIO CASE	10/17/18
2	REVISED ANTENNA	11/29/18
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	02/27/20

DRAWING TITLE:
PHOTOSIM

DRAWER: DTD DRAWING NO.:

SCALE: NTS

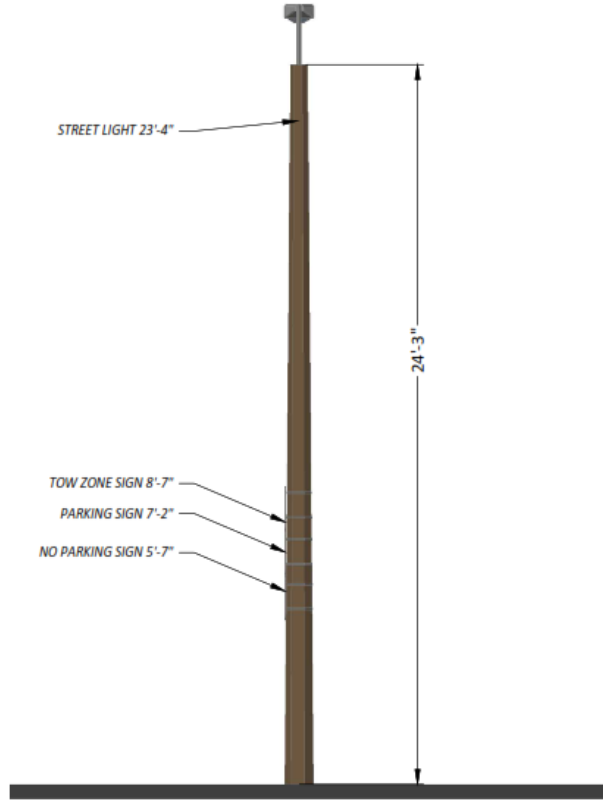
ISSUE DATE: 08/15/17

INDEX NAME: 10-MA-0233

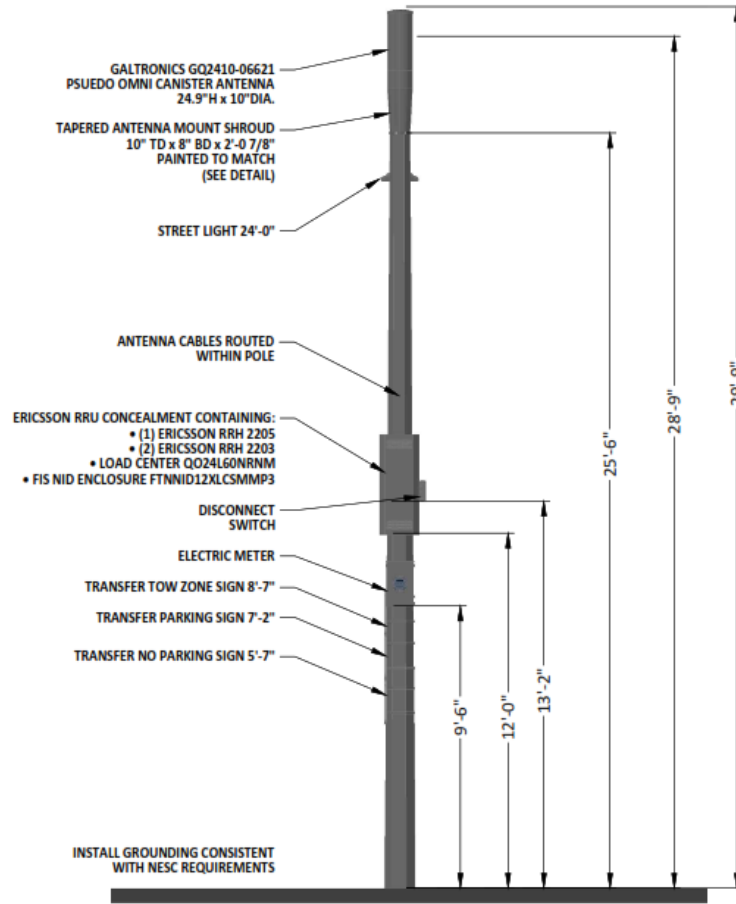
4

NOTE:
 REPLACE EXISTING 24'-3" AGL DCR CONCRETE
 STREETLIGHT POLE ID 8044 WITH NEW 25'-6"
 AGL DCR METAL HEX NODE POLE.

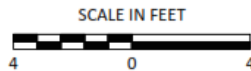
NO FIELD CORING/DRILLING
 OR CUTTING OF METALLIC
 POLE PERMITTED.



① EXISTING PROFILE - REAR VIEW
 LOOKING NORTHEAST TOWARDS PARK DR



① PROPOSED PROFILE - REAR VIEW
 LOOKING NORTHEAST TOWARDS PARK DR



FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

BOSTON, MA

POLE OWNER: DCR

NOTES:

PREPARED FOR:



PREPARED BY:



REVISIONS

REV	DESCRIPTION	DATE
1	UPDATED RADIO CASE	10/27/18
2	REVISED ANTENNA	11/25/18
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	02/27/20

DRAWING TITLE:

REAR VIEWS

DRAFTER: GTR DRAWING NO.

SCALE: 1" = 4'

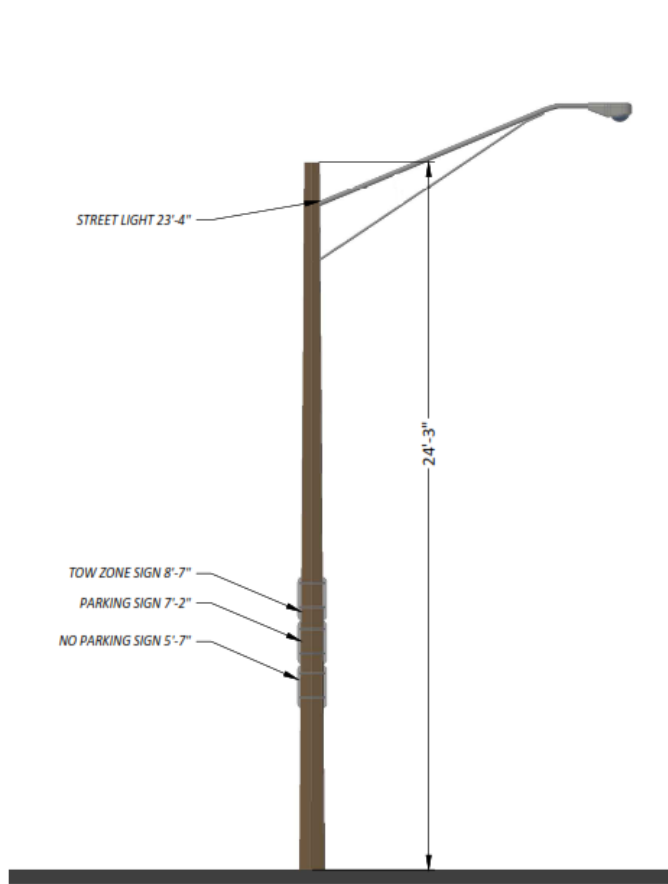
ISSUE DATE: 08/15/17

INDEX NAME: SC-MA-0333

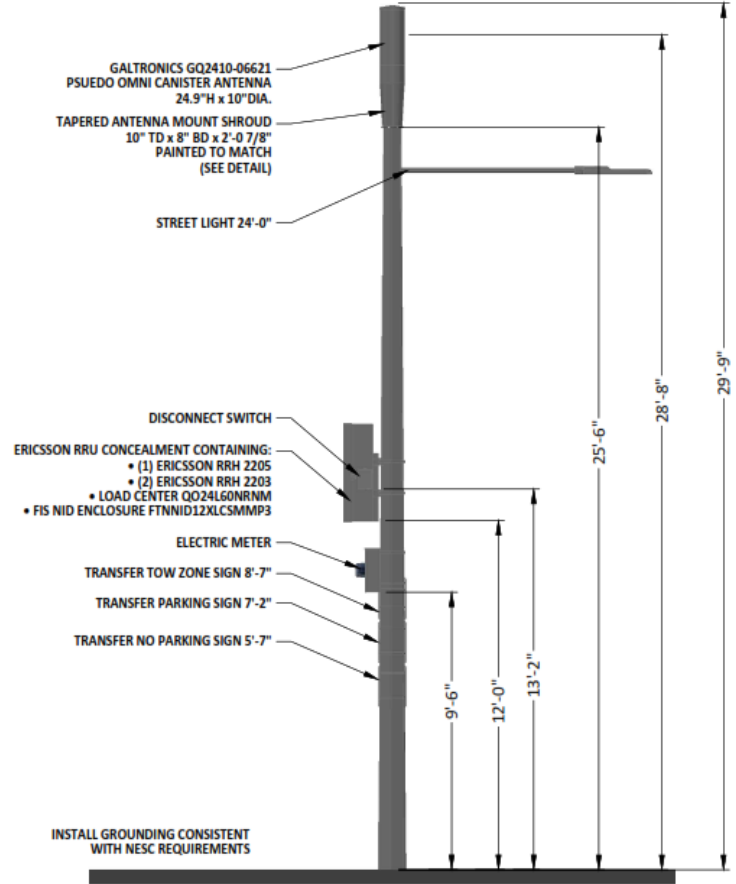
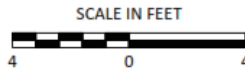
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NOTE:
 REPLACE EXISTING 24'-3" AGL DCR CONCRETE
 STREETLIGHT POLE ID 8044 WITH NEW 25'-6"
 AGL DCR METAL HEX NODE POLE.

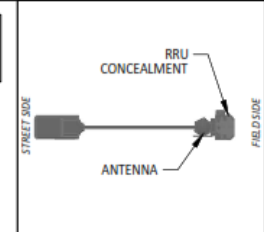
NO FIELD CORING/DRILLING
 OR CUTTING OF METALLIC
 POLE PERMITTED.



② EXISTING PROFILE - SIDE VIEW
 LOOKING NORTHWEST ALONG PARK DR



② PROPOSED PROFILE - SIDE VIEW
 LOOKING NORTHWEST ALONG PARK DR



PROPOSED TOP VIEW

BOSTON, MA	
POLE OWNER:	DCR
NOTES:	

PREPARED FOR:	
---------------	--

PREPARED BY:		21 Oxford Rd Mansfield, MA 02548 www.piketelcom.org 1-508-337-7800
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REV	DESCRIPTION	DATE
1	UPDATED RADIO CASE	10/27/18
2	REVISED ANTENNA	11/25/19
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	02/27/20

DRAWING TITLE:
SIDE VIEWS

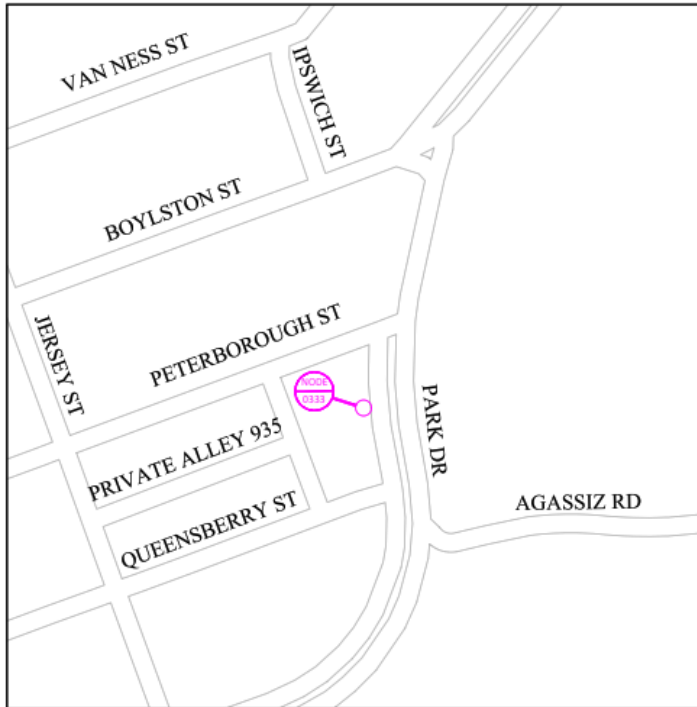
DRAFTER: DTB	DRAWING NO.:
SCALE: 1" = 4'	3
ISSUE DATE: 06/12/21	
INDEX NAME: SC-MA-0333	

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

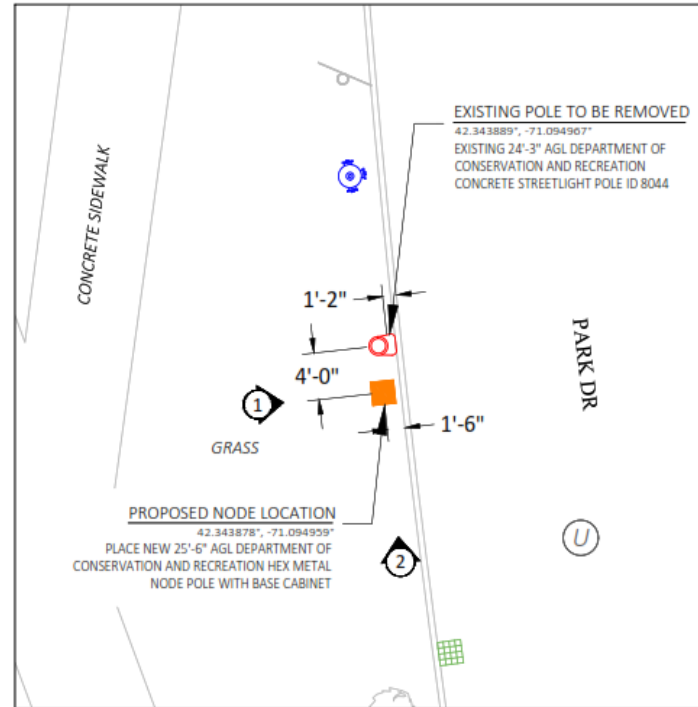
SHEET INDEX	
NO.	DESCRIPTION
1	COVER SHEET
2	REAR VIEW
3	SIDE VIEW
4	PHOTO SIMULATION
5	PHOTO SIMULATION
6	PHOTO SIMULATION
7	WIRING DIAGRAM
8	POLE DETAIL
9	FOUNDATION DETAILS
10	ANTENNA DETAILS
11	ENCLOSURE DETAILS
12	BRACKET DETAILS
13	TRAFFIC MANAGEMENT PLAN
14	TRAFFIC MANAGEMENT PLAN DETAILS



**DEPARTMENT OF CONSERVATION
AND RECREATION**
 SMALL CELL
 CRAN_RCTB_00011_40
 PROPOSED NODE SC-MA 0333 LOCATION
 BOSTON, MASSACHUSETTS



VICINITY MAP
1" = 250'



NODE PLACEMENT
1" = 10'

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

SITE INFORMATION:

Stephen Simoglou



LEGEND

- PROPOSED NODE
- ⊗ JOINT UTILITY POLE
- ⊗ LAMP POST
- ⊗ STREETLIGHT
- ⊗ TRAFFIC/PEDESTRIAN SIGNAL
- ⊗ HYDRANT
- ⊗ PARKING METER
- ⊗ SIGN
- ⊗ CATCH BASIN
- ⊗ ELECTRIC MANHOLE
- ⊗ UNKNOWN MANHOLE
- ⊗ UNKNOWN HANDHOLE

BOSTON, MASSACHUSETTS
 DCR LOCATION: 42.34°, -71.09°
 EXISTING LOCATION: 42.343889°, -71.094959°
 PROPOSED LOCATION: 42.343878°, -71.094959°

POLE OWNER: DCR

NOTES:

PREPARED FOR:



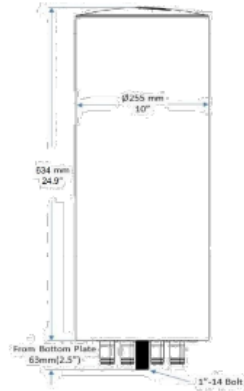
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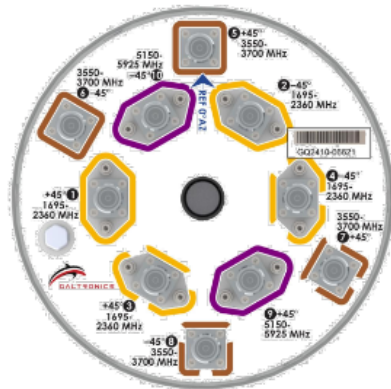
REV	DESCRIPTION	DATE
1	UPDATED RATED CASE	10/27/18
2	REVISED ANTENNA	11/25/18
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	02/27/20

DRAWING TITLE:
COVER SHEET

DRAFTER: DTB	DRAWING NO. 1
SCALE: AS NOTED	
ISSUE DATE: 06/13/17	
INDEX NAME: SC-MA 0333	



SIDE VIEW



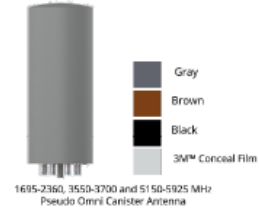
BOTTOM VIEW

2' Pseudo Omni 10-Port Canister Antenna [1695-2360, 3550-3700 and 5150-5925 MHz]

GQ2410-06621

Description:

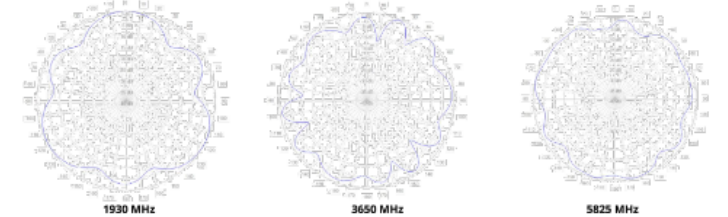
- Pseudo Omni Canister Antenna for Outdoor DAS and Small Cells.
- 4x ports for AWS/PCS/WCS Band 1695-2360 MHz
- 4x ports for CRRS Band 3550-3700 MHz
- 2x ports for U-NII Band 5150-5925 MHz*



*Compliant to 789033 D02 General U-NII Test Procedures New Rules v01r04. The antenna meets current U-NII-1 requirements for gain and upper side-lobe performance. Guidelines for Compliance Testing of Unlicensed National Information

Electrical Specifications				
Frequency Band [MHz]	1695-2180	2305-2360	3550-3700	5150-5925
Input Connector Type	4x 4.3-10 (F)		4x 4.3-10 (F)	2x 4.3-10 (F)
Isolation (Typ.)	20 dB			
VSWR/Return Loss (Typ.)	1.5:1 / 14.0 dB			
Impedance	50 Ω			
Polarization	Dual slant 45° (±45°)			
Horizontal Beamwidth	Omni (360°)			
Vertical Beamwidth	19°	15.4°	18.7°	23.0°
Max. Gain	8.9 dBi	8.3 dBi	8.0 dBi	5.5 dBi
Avg. Gain	7.7 dBi	7.9 dBi	7.6 dBi	4.7 dBi
Downtilt	0° Fixed			
Max Power / Port	100 Watts		50 Watts	1 Watt
PIM @ 2x43 dBm	<-153 dBc		N/A	N/A

2D Antenna Patterns



Mechanical Specifications

Operating Temperature	-40° to +58°F (-40° to +70°C)
Antenna Weight	16.3 lbs (7.4 kg)
Antenna Dimension (Diameter x Height)	10.0" (255 mm) x 24.9" (634 mm)
Radome Material	ASA
Radome Color	Gray, Brown, Black, 3M™ Conceal Film
Ingress Protection	Outdoor (IP65)
Wind Survival Rating	150 mph (241 km/h)

**GALTRONICS GQ2410-06621 PSEUDO OMNI
SMALL CELL CANISTER ANTENNA**

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

BOSTON, MA

POLE OWNER: DCR

NOTES:

PREPARED FOR:
CROWN CASTLE

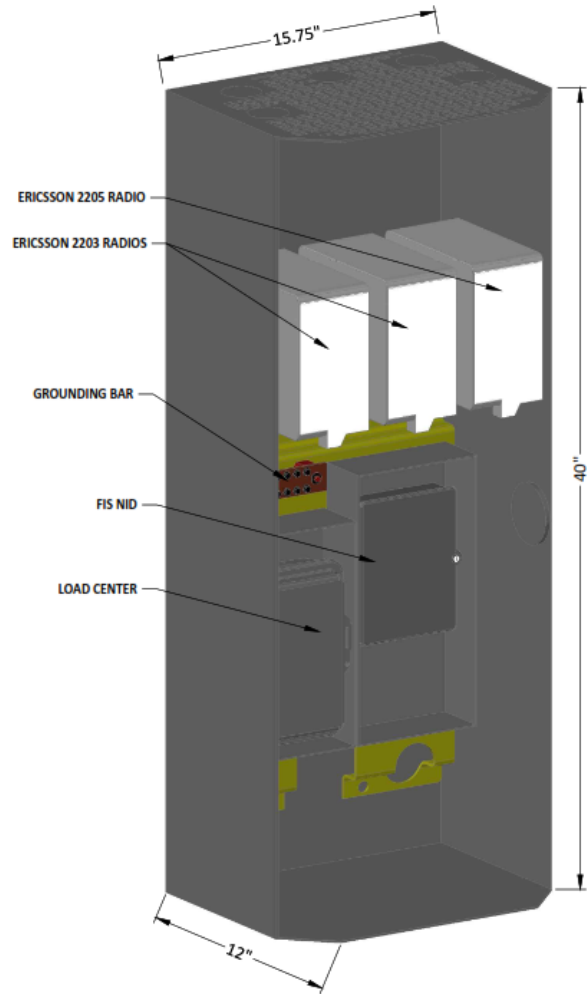
PREPARED BY:
PIKE TELICON

21 Oxford Rd
Mansfield, MA 02048
www.piketelicon.com
1-800-337-7900

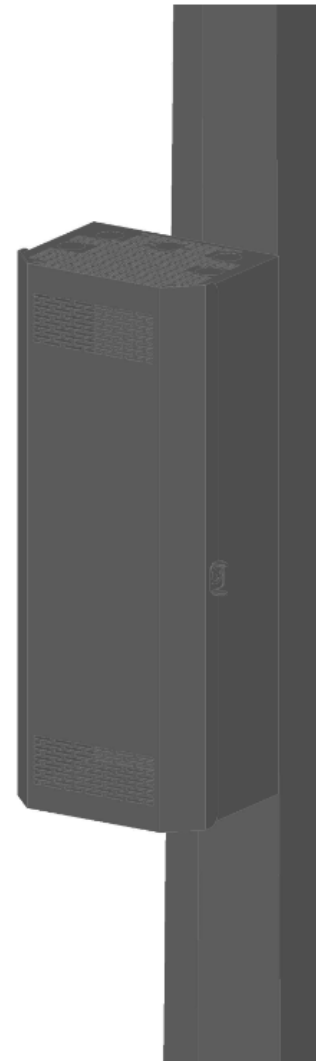
REVISIONS		
REV	DESCRIPTION	DATE
1	UPDATED RADIO CASE	02/27/20
2	REVISED ANTENNA	12/23/19
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	02/27/20

DRAWING TITLE:
ANTENNA DETAILS

DRAWN: GTR	DRAWING NO.:
SCALE: NTS	10
ISSUE DATE: 08/15/17	
INDEX NAME: SC-BA 0333	



COMMSCOPE PICO RADIO CONCEALMENT
 SSC-760236114
 CONCEPTUAL VIEW



COMMSCOPE PICO RADIO CONCEALMENT
 SSC-760236114
 CONCEPTUAL VIEW

BOSTON, MA
 POLE OWNER: DCR

NOTES:
 PREPARED FOR:



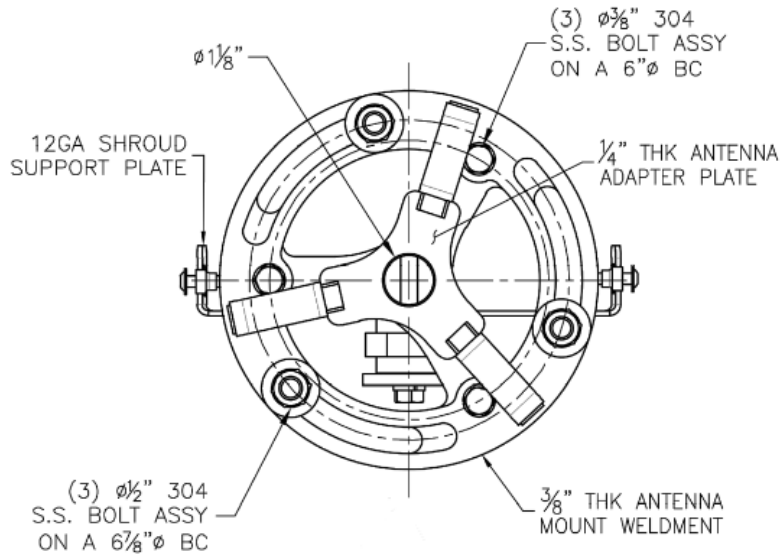
PREPARED BY:
PIKE TELECOM
 21 Oxford Rd
 Mansfield, MA 02048
 www.piketelcom.org
 1-508-337-7600

REVISIONS		
REV	DESCRIPTION	DATE
1	UPDATED RADIO CASE	10/27/18
2	REVISED ANTENNA	11/25/19
3	ADDED POLE STRUCTURAL ELEV. VIEWS & DETAILS	02/27/20

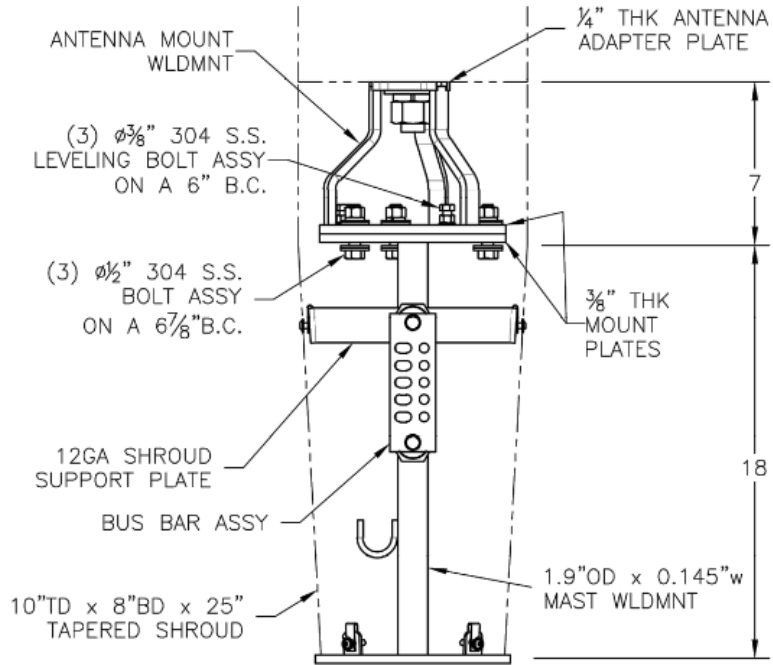
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RRU CONCEALMENT

DRAWER: OTS	DRAWING NO.:
SCALE: NTS	11
ISSUE DATE: 08/13/17	
INDEX NAME: SC-MA-0333	

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION



TOP VIEW



SIDE VIEW

ANTENNA MOUNT ASSEMBLY & SHROUD

FOR APPROVAL ONLY-NOT FOR CONSTRUCTION

BOSTON, MA													
POLE OWNER:	DCR												
NOTES:													
PREPARED FOR:													
PREPARED BY:	21 Oxford Rd Mansfield, MA 02048 www.piketelcom.com 1-508-337-7800												
<table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UPDATED RADIO CASE</td> <td>10/07/18</td> </tr> <tr> <td>2</td> <td>REVISED ANTENNA</td> <td>11/03/19</td> </tr> <tr> <td>3</td> <td>ADDED POLE STRUCTURAL ELEV VIEWS & DETAILS</td> <td>02/27/20</td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	1	UPDATED RADIO CASE	10/07/18	2	REVISED ANTENNA	11/03/19	3	ADDED POLE STRUCTURAL ELEV VIEWS & DETAILS	02/27/20
REV	DESCRIPTION	DATE											
1	UPDATED RADIO CASE	10/07/18											
2	REVISED ANTENNA	11/03/19											
3	ADDED POLE STRUCTURAL ELEV VIEWS & DETAILS	02/27/20											
DRAWING TITLE: BRACKET DETAILS													
DRAWER: DTS	DRAWING NO. 12												
SCALE: NTS													
ISSUE DATE: 08/15/17													
INDEX NAME: 12-MA-0333													



PETITION PLAN
FOR
PROPOSED CONDUIT INSTALLATION
PARK DR AND QUEENSBERRY ST
IN THE CITY OF BOSTON, MA

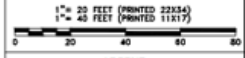
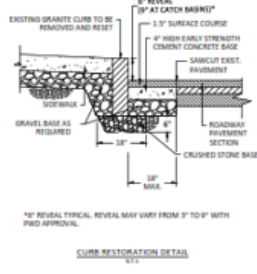
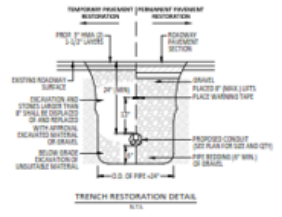
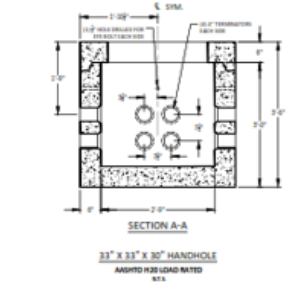
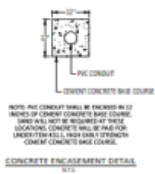
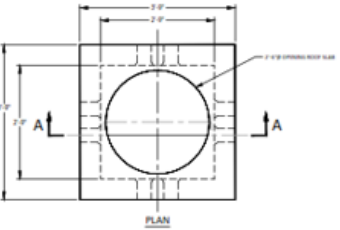
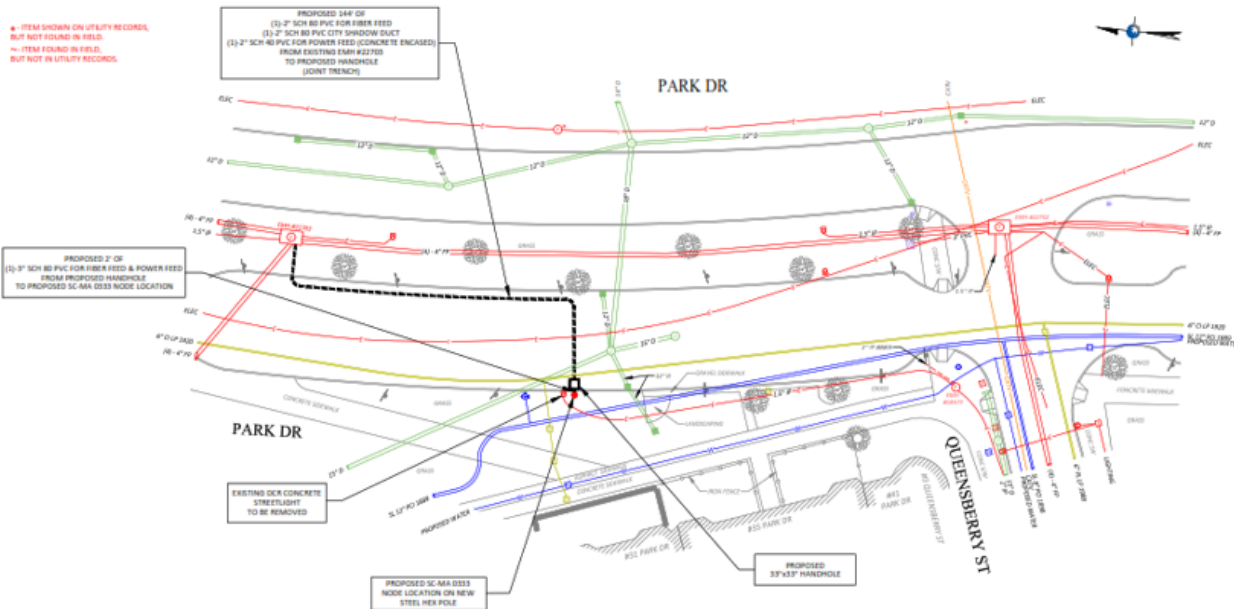
SMALL CELL POWER AND FIBER LATERAL
CRAN_RCTB_00011_40
NODE SC-MA-0333



GENERAL NOTES

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCURRED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
3. THE CONTRACTOR SHOULD MAINTAIN A SEPARATION OF 36 INCHES MIN. WHEN CROSSING EXISTING WATER FACILITIES.
4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANY.
5. THE CONTRACTOR SHALL NOT DISTURB PUBLIC TREES AND SHRUBS.
6. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING AND MAINTAINING TEMPORARY RESURFACING AND/OR PLATING FOR ALL EXCAVATING IN PAVED STREETS AND SIDEWALKS UNTIL PERMANENT RESURFACING IS COMPLETE.
8. JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAW CUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN AND BACK SANDED.
9. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITY LINES THAT BECOME EXPOSED DUE TO EXCAVATION REQUIRED TO INSTALL THE PROPOSED CONDUIT.
10. THE CONTRACTOR SHALL REPLACE ALL DISTURBED TRAFFIC SIGNAL LOOP DETECTORS TO GOOD WORKING CONDITION AS REQUIRED BY THE LATEST STANDARDS OF THE MUNICIPAL TRAFFIC DEPARTMENT.
11. ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATION ARE NOT GUARANTEED.
12. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS IN THEIR ENTIRETY THAT HAVE BEEN DAMAGED BY TRENCH EXCAVATION OR OPERATIONS OF THE CONTRACTOR WITH SIMILAR COLOR AND SIZE THERMOPLASTIC MARKINGS.
13. CONTRACTOR TO HAND DIG AS REQUIRED AT CRITICAL EXISTING UTILITY CROSSINGS WITH PROPOSED CONDUIT.
14. ALL WORK TO COMPLY WITH NESC CODES, AND LOCAL REGULATIONS AS NECESSARY.
15. CONTRACTOR SHALL HAND DIG ADJACENT TO EXISTING GAS UTILITY. PROPOSED CONDUIT SHALL MAINTAIN REQUIRED CLEARANCE FROM EXISTING. CONTRACTOR SHALL COORDINATE WITH GAS UTILITY OWNERS SUCH THAT ALL PARTIES AGREE TO PROPOSED CONDUIT LOCATION.

- ITEM SHOWN ON UTILITY RECORDS, BUT NOT FOUND IN FIELD.
- ITEM FOUND IN FIELD, BUT NOT IN UTILITY RECORDS.



LEGEND

X	ELECTRIC POLE	⊗	100 CABLE MARKER
○	TELECOMMUNICATION POLE	⊗	PARKING METERS
⊗	ASBESTOS UTILITY POLE	⊗	SOAK PILE
⊗	LAMP POLE	⊗	BOLLARD (CONC, STEEL, W/)
⊗	CANALIZER STREETLIGHT	⊗	STONE BOLLARD
⊗	STANDARD STREETLIGHT	⊗	CASTOR BOLLARD
⊗	CITY MANHOLE	⊗	FIRE HYDRANT
⊗	DRAIN MANHOLE	⊗	STAND PIPE
⊗	ELECTRIC MANHOLE	⊗	CONCRETE PRECAST
⊗	SEWER MANHOLE	⊗	BRICKWORK VALVE
⊗	TELEPHONE MANHOLE	⊗	CITY MANHOLE
⊗	WATER MANHOLE	⊗	CONCRETE MANHOLE
⊗	POLE ANCHOR BUSH	⊗	SEAS GATE
⊗	BUS/SUBWAY	⊗	GAS METER
⊗	RIGHT OF WAY	⊗	SEWER GATE
⊗	UTILITY	⊗	TEL. HANDHOLE
⊗	RAILROAD	⊗	TRAFFIC HANDHOLE
⊗	RAIL BACK	⊗	WATER GATE
⊗	MAIL BOX	⊗	WATER METER
⊗	TRASH BIN/CAN	⊗	TRANSFORMER
⊗	RECYCLING BIN	⊗	PROPOSED MANHOLE
⊗		⊗	PROPOSED CONDUIT

NOTE:
EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT WARRANTED TO BE CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO BEGINNING ANY EXCAVATION.

CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT
72 HOURS NOTICE REQUIRED
ENTER 1-888-DIG-4SAFE



CROWN FIBER CASTLE

REV	DESCRIPTION	DATE
1	ADDED DCR INFORMATION	3/18/20

TITLE:
SC-MA 0333 PARK DR AND QUEENSBERRY ST
CONCRETE, UTILITY, AND
SIGNALING
CROWN CASTLE - TRENCH PLAN

DRAWN BY: JAE TELCOM **PRINT NO:** 1.0/1
DATE: 03/18/20 **SCALE:** AS NOTED
REVISION:

ALL FIELD DATA ACQUIRED USING TOTAL STATION SURVEY EQUIPMENT

FOR PERMITTING ONLY



Proprietary & Confidential

