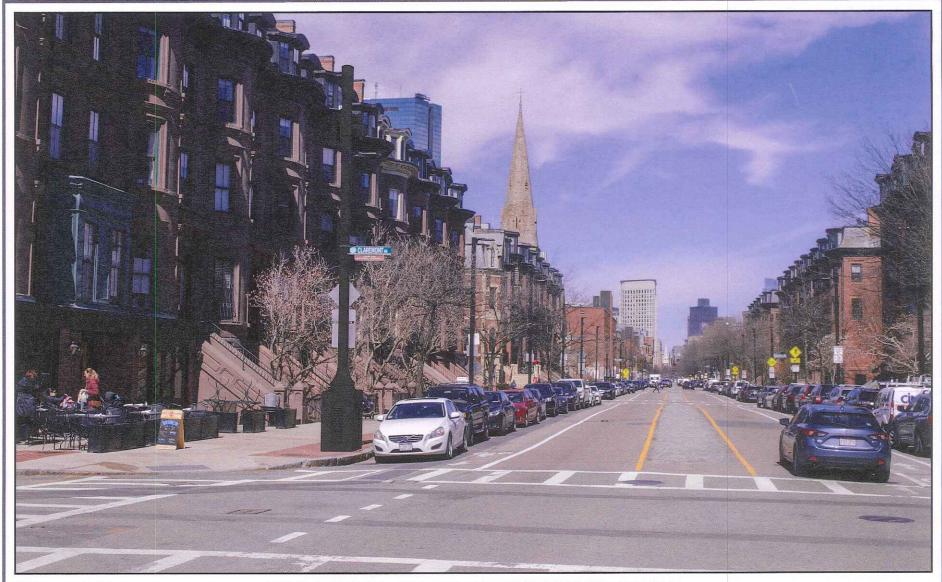
## PHOTOGRAPHIC RENDERINGS

BASED ON PROTERRA DESIGN LLC DOCUMENT: BOS\_BBCOP\_005\_MA\_LE\_REVO DATED:01/17/2019





4 Bay Road, Bldg. A Ph: (413)320-4918 Sulte 200 Hadley, MA 01035 BOS\_BBCOP\_005\_MA - LOCATION ID: 515465
POLE LOCATION: 535 COLUMBUS AVENUE, SOUTH END NEIGHBORHOOD

BOSTON, MA 02118

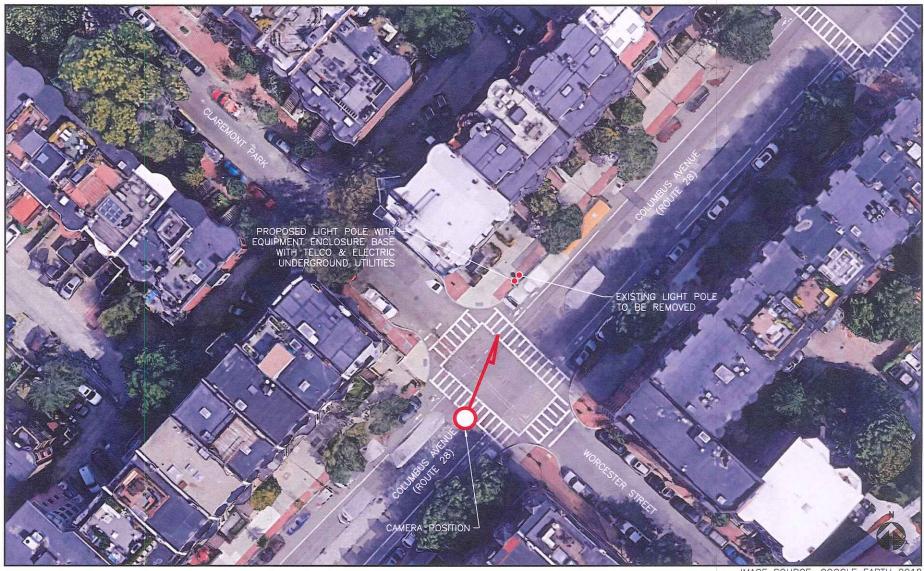
CAMERA LOCATION: 68'± FROM TARGET WITH 50mm LENS

THIS DOCUMENT IS FOR VISUAL REFERENCE ONLY. VISIBILITY MAY VARY DEPENDING ON CONDTIONS, SEASONS, AND VIEWER LOCATION.



## PHOTO LOCATION MAP

BASED ON PROTERRA DESIGN LLC DOCUMENT: BOS\_BBCOP\_005\_MA\_LE\_REVO DATED:01/17/2019





4 Bay Road, Bldg. A Suite 200 Hadley, MA 01035 Ph: (413)320-4918 BOS\_BBCOP\_005\_MA - LOCATION ID: 515465
POLE LOCATION: 535 COLUMBUS AVENUE, SOUTH END NEIGHBORHOOD BOSTON, MA 02118

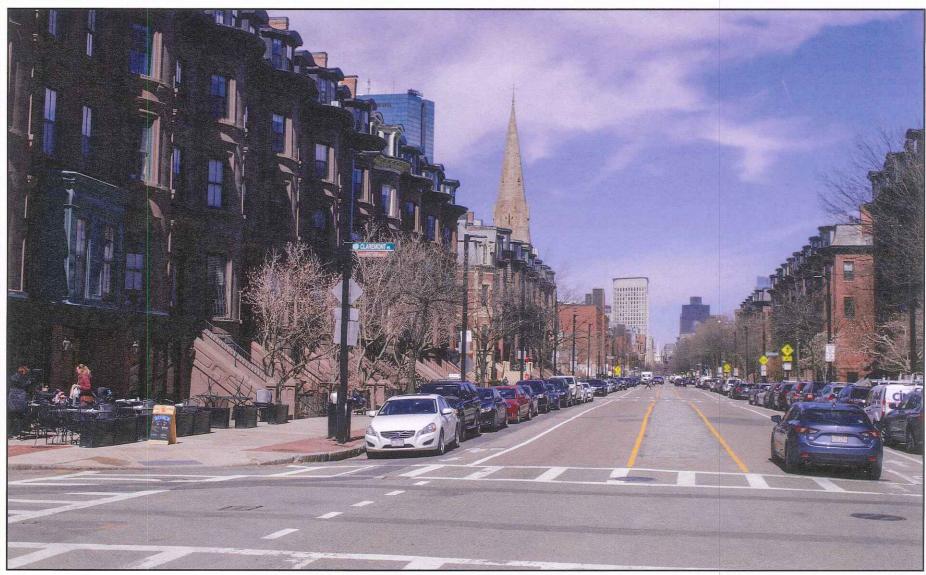
CAMERA LOCATION: 68'± FROM TARGET WITH 50mm LENS

THIS DOCUMENT IS FOR VISUAL REFERENCE ONLY. VISIBILITY MAY VARY DEPENDING ON CONDTIONS, SEASONS, AND VIEWER LOCATION. IMAGE SOURCE: GOOGLE EARTH 2018



## **EXISTING CONDITIONS**

BASED ON PROTERRA DESIGN LLC DOCUMENT: BOS\_BBCOP\_005\_MA\_LE\_REVO DATED:01/17/2019





4 Bay Road, Bldg. A Ph: (413)320-4918 Suite 200 Hadley, MA 01035 BOS\_BBCOP\_005\_MA - LOCATION ID: 515465
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BOSTON, MA 02118

CAMERA LOCATION: 68'± FROM TARGET WITH 50mm LENS

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## PROPOSED CONDITIONS

BASED ON PROTERRA DESIGN LLC DOCUMENT: BOS\_BBCOP\_005\_MA\_LE\_REVO DATED:01/17/2019





4 Bay Road, Bldg. A Suite 200 Hadley, MA 01035 Ph: (413)320-4918 BOS\_BBCOP\_005\_MA - LOCATION ID: 515465
POLE LOCATION: 535 COLUMBUS AVENUE, SOUTH END NEIGHBORHOOD

BOSTON, MA 02118

CAMERA LOCATION: 68'± FROM TARGET WITH 50mm LENS

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### **GENERAL NOTES**

#### CODE SPECIFICATIONS

- ALL GENERAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE CODES AND LOCAL ORDINANCES, RULES, AND SPECIFICATIONS FOR INSTALLING LUMINAIRES SUPPORTING COMMUNICATIONS EQUIPMENT WITHIN THE PUBLIC-RIGHT-OF-MMY.
- ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY SPECIFICATIONS, NESC & NEC 2017 (NFPA70) WITH MA AMENDMENTS (527 CMR 12.00).

#### PROJECT NOTES

- GROUNDING SHALL COMPLY WITH THE LOCAL UTILITY COMPANY CODES AND REQUIREMENTS, NEC ART, 250, AND NESC OR MOST RECENT AS ADOPTED.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD.
- 3. ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BEHT AT RIGHT MAGES. ALWAYS MAKE 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT B" RADIUS WHEN NECESSARY.
- TEST COMPLETED GROUNDING SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE—OUT DOCUMENTATION, GROUND RESISTANCE SHALL BE WITHIN VERIZON SPECIFICATIONS.
- CONDUIT SHALL BE PVC, HEAVY WALL SUNLIGHT RESISTANT (6-7 PERCENT TITANIUM DIOXIDE BY WEIGHT), SCHEDULE 4D OR SCHEDULE 8D UNDER PAVEMENT AS PER ANSJACHAM TO 2-2003 UNLESS OTHERWISE NOTED OR AS DIRECTED BY UTILITY PURVEYOR.
- DISCONNECT AND OVERCURRENT PROTECTION DESIGNED AND SIZED IN COMPLIANCE WITH NEC REQUIREMENTS FOR OUTDOOR INSTALLATIONS.
- ALL MOUNTING BRACKETS AND HARDWARE SHALL BE SUFFICIENTLY PROTECTED FROM CORROSION BY GALVANIZING, PROTECTIVE COATING OR OTHERWISE. THESE SHALL BE SECURED TO THE POLE WITH HARDWARE OF ADEQUATE STRENGTH FOR THE LOAD.
- RADIO FREQUENCY (RF) RADIATION WARNING SIGNAGE AS REQUIRED BY DSHA SHALL BE PRESENT AND VISIBLE TO PERSONS WORKING NEAR ANTENNA, REQUESTER MUST SUBMIT DOCUMENTS THAT STATE THE RF OUTPUT OF THE ANTENNA FOR EACH LOCATION.

- NORTH SHOWN IS APPROXIMATE, NOT ALL EXISTING OR PROPOSED IMPROVEMENTS ARE SHOWN FOR CLARITY.
- 2. THIS DOCUMENT IS FOR ILLUSTRATION & LEASING PURPOSES ONLY.
- POWER AND TELCO UNDERGROUND UTILITY SQURGES AND FINAL ROUTING SHALL BE DETERMINED BY OTHERS, IT IS THE RESPONSIBILITY OF THE UTILITY PURPEYOR AND VERZON WIRELESS TO OBTAIN ALL APPROVALS AND EASEMENTS AS REQUIRED.
- 4. SITE PLAN AND RELATIVE LIGHT POLE ELEVATIONS BASED ON SITE VISIT BY PROTERRA DESIGN GROUP, LLC, GROUND LEVEL AMS, ELEVATIONS AND APPROXIMATE PROPOSED LIGHT POLE CODIOMANTES SHOWN HEREN ARE BASED ON LOCATIONS DERIVED FROM AERIAL IMAGERY IN PUBLICLY AVAILABLE GEOGRAPHIC INFORMATION SYSTEMS (GIS).
- FINAL COORDINATES AND ELEVATIONS OF LIGHT POLE MAY VARY AS SHOWN HEREON DEPENDING ON FIELD PLACEMENT.
- 6. AERIAL IMAGERY BASED ON GOOGLE.
- THIS PLAN EXHIBIT IS SCHEMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WRELESS COMMINICATION FACILITY, LOCATION, SIZE AND TYPE SHALL BE CONTINUED BY THE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- B. THE CONTRACTOR SHALL PROVIDE LICENSED TECHNICIANS FAMILIAR WITH SUCH INSTALLATIONS AND THE REQUIRED CODES.

#### STRUCTURAL NOTES

- LIGHT POLES ARE SHOWN SCHEMATICALLY AND IT IS THE RESPONSIBILITY OF VERIZON WIRELESS TO DETERMINE THE STRUCTURAL ADEQUACY OF THE PROPOSED INSTALLATION.

APPROVED, STREET LIGHTING DIVISION

# BOS\_BBCOP\_005\_MA VERIZON LOCATION ID:

515465

POLE LOCATION:

535 COLUMBUS AVENUE SOUTH END NEIGHBORHOOD **BOSTON, MA 02118** 



IMAGE SOURCE: GOOGLE FARTH 2018



APPROXIMATE PROPOSED LATITUDE: N 42.341750°± N 42° 20' 30.30"± POLE COORDINATES: LONGITUDE: W 71.080445'± W 71' 04' 49.60"±

(SEE SITE NOTES NO. 5)

**EXHIBIT** EASE

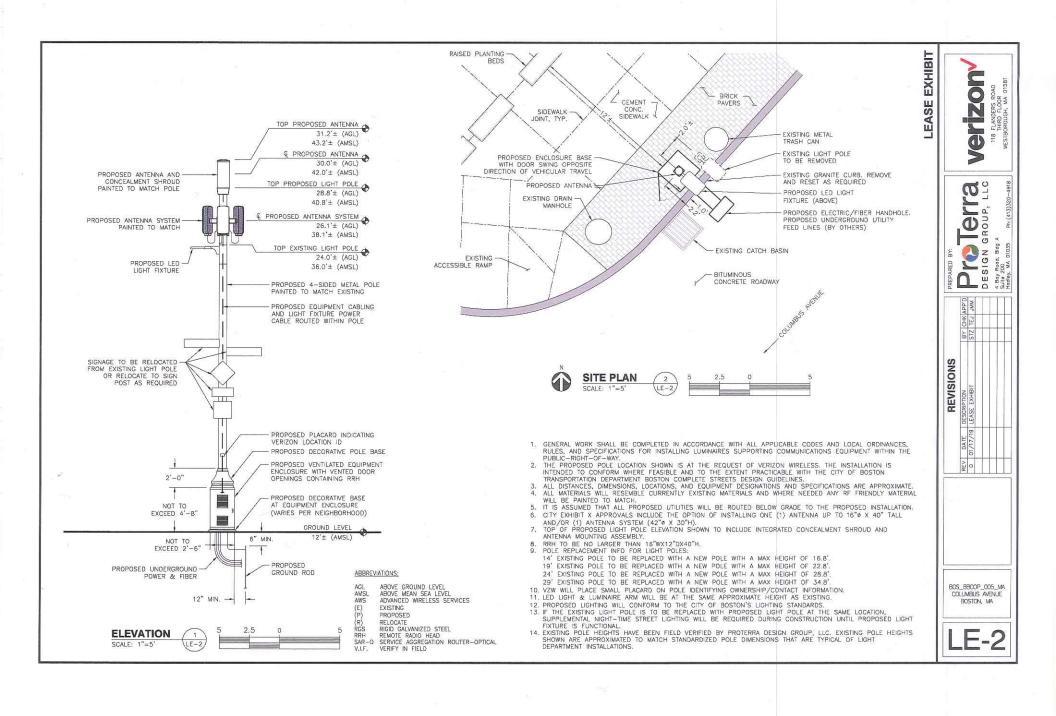
verizon

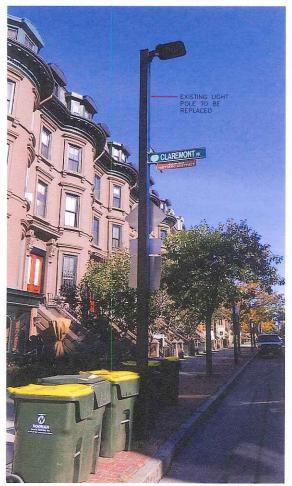




BOS\_BBCOP\_005\_WA COLUMBUS AVENUE BOSTON, MA



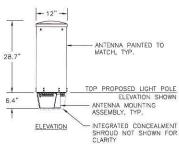




REF: PROTERRA 10/26/18

PHOTO DETAIL SCALE: N.T.S.





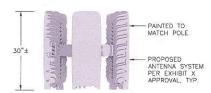
#### ANTENNA SPECIFICATIONS

MODEL: COMMSCOPE NNVVSSP-360S-FM ANTENNA DIMENSIONS: 12"ø x 28.7"H WEIGHT: 26.7 LBS. ±

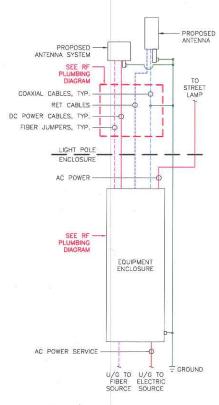
**ANTENNA DETAIL** 

SCALE: N.T.S.





ANTENNA SYSTEM DETAIL SCALE: N.T.S.



NOTES:

1. IT IS THE RESPONSIBILITY OF VERIZON WIRELESS AND THE POLE MANUFACTURER TO DETERMINE THE PROPOSED EQUIPMENT AND CABLING, QUANTITIES, CONSTRAINTS, AND FITMENT WITHIN THE PROPOSED POLE.

1. CONTRACTOR TO FIELD TEST AND TIE INTO EXISTING GROUNDING SYSTEM, IF GROUNDING SYSTEM DOES NOT MEET VERIZON WIRELESS STANDARDS OR IS NOT FOUND, CONTRACTOR SHALL NOTIFY POLE OWNER AND INSTALL GROUNDING SYSTEM PER UTILITY PROVIDER AND VERIZON WIRELESS REQUIREMENTS AND SPECIFICATIONS.

3. CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN WITH VERIZON WIRELESS. RE ENGINEER PRIOR TO CONSTRUCTION.

4. CONTRACTOR SHALL HAVE WRITTEN WORK AUTHORIZATION FROM POLE OWNER PRIOR TO COMMENCEMENT OF WORK.

5. THE WIRING DIAGRAM SHOWN HEREIN IS SCHEMATIC, THE INSTALLATION SHALL BE VERIFIED AND INSPECTED BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH APPLICABLE CODES.

**GENERAL WIRING DIAGRAM** 

SCALE: N.T.S.





EXHIBIT

LEASE

GROUP, LLC DESIGN



FOR SCHEMATIC ONLY

BOS\_BBCOP\_COS\_MA COLUMBUS AVENUE BOSTON, MA