



ASHLAND MA

CROWN CASTLE BU #:806042
ALBERT RAY DRIVE
ASHLAND, MA 01721



APPROVALS
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A & E _____

PROJECT NO: ERCC0004

DRAWN BY: JT

CHECKED BY: DC

| SUBMITTALS | | |
|------------|----------|------------------|
| NO. | DATE | DESCRIPTION |
| 1 | 09/03/19 | FOR CONSTRUCTION |
| 0 | 08/13/19 | FOR PERMITTING |

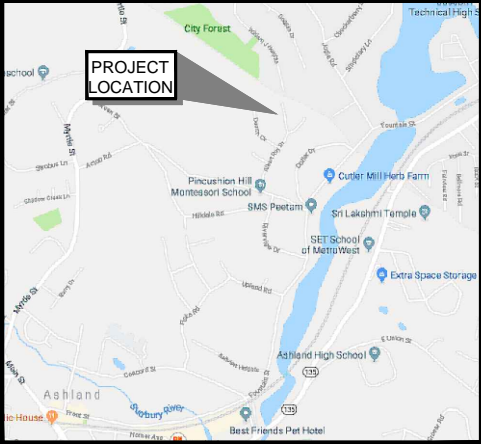
THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF CROWN CASTLE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

SITE NAME:
ASHLAND MA
CROWN CASTLE BU#:
806042
ALBERT RAY DRIVE
ASHLAND, MA 01721

TITLE SHEET

T-1
CONSTRUCTION

VICINITY MAP NOT TO SCALE



DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE LESSEE/LICENSEE REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CONSULTANT TEAM

APPLICANT: VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492
CONTACT: JAMES O'DONNELL

APPLICANT'S CONTACT: JAMES O'DONNELL
(413) 575-2626

ARCHITECT: JACOBS ENGINEERING GROUP, INC.
120 SAINT JAMES AVENUE
5TH FLOOR
BOSTON, MA 02116

STRUCTURAL ENGINEER: JACOBS ENGINEERING GROUP, INC.
120 SAINT JAMES AVENUE
5TH FLOOR
BOSTON, MA 02116

ELECTRICAL ENGINEER: JACOBS ENGINEERING GROUP, INC.
120 SAINT JAMES AVENUE
5TH FLOOR
BOSTON, MA 02116

PROJECT SUMMARY

VERIZON SITE NAME: ASHLAND MA

CROWN CASTLE SITE NAME: BOS ASHLAND 959026

TOWER OWNER: CROWN CASTLE LLC
67 SHARP STREET
HINGHAM, MA 02043

COORDINATES: N 42° 16' 25.30"
W 71° 27' 5.60"

APPLICANT: VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

PROJECT DIRECTORY

SITE ADDRESS: ALBERT RAY DRIVE
ASHLAND, MA 01721

PROJECT DESCRIPTION


THE PROJECT WILL CONSIST OF:
REPLACE (1) OVP WITH (1) NEW OVP.
REMOVING (3) EXISTING ANTENNAS.
REMOVE (3) EXISTING RRU'S INSIDE EQUIPMENT SHELTER.
REPLACING (6) EXISTING ANTENNAS WITH (6) NEW ANTENNAS.
REPLACING (3) EXISTING RRU'S WITH (6) NEW RRU'S.
MOUNT (2) ANTENNAS, PER SECTOR, SIDE BY SIDE.

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

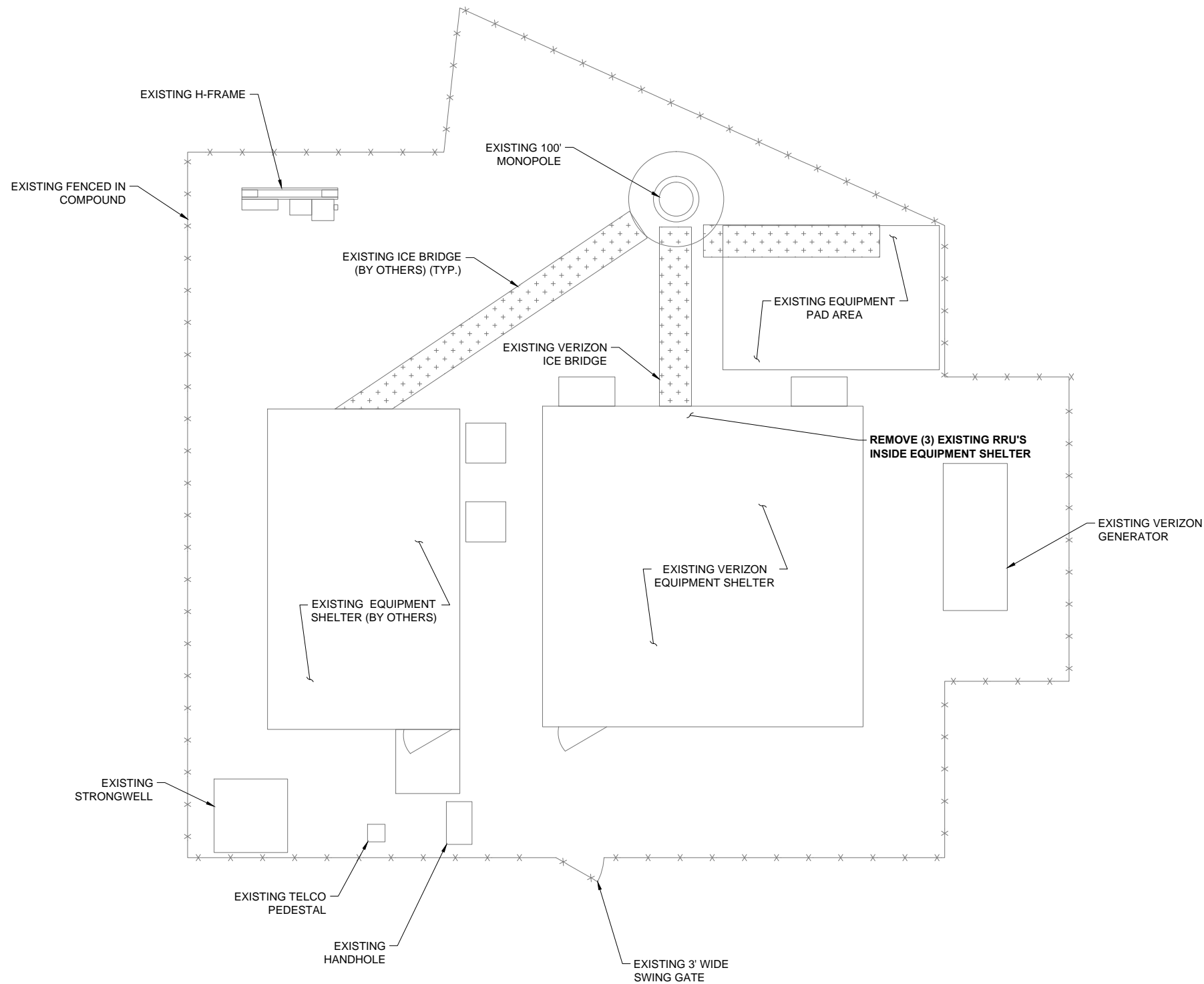
SHEET INDEX

| | |
|-----|---------------------|
| T-1 | TITLE SHEET |
| A-1 | SITE PLAN |
| A-2 | ELEVATION PLAN |
| A-3 | EQUIPMENT DETAILS I |



811 UNDERGROUND SERVICE ALERT
THE LAW REQUIRES TWO WORKING DAYS NOTICE PRIOR TO ANY EARTH MOVING ACTIVITIES. DIAL 811

C:\working\telecommunications\corning\0629363\Ashland_MA_ERCC0004\ERCC0004.dwg [T-1] September 03, 2019 11:58am Corning



GENERAL NOTES:

1. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
2. NORTH SHOWN AS APPROXIMATE.
3. EXISTING ANTENNAS SHOWN AS APPROXIMATE. ELEVATION BASED ON EXISTING INFORMATION AND VISUAL INSPECTION AND HAVE NOT BEEN VERIFIED THROUGH AN ANTENNA MAPPING.
4. PLANS BASED ON DRAWINGS FROM CROWN CASTLE WEB-SITE.
5. ANTENNAS TO BE INSTALLED PER TOWER MANUFACTURER RECOMMENDATIONS AND TOWER STRUCTURAL ANALYSIS SPECIFICATIONS.
6. REUSED EXISTING ANTENNA MOUNTS AND COAX. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED PER STRUCTURAL ANALYSIS.
7. CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN AND NOTIFY CARRIER AND ENGINEER WITH ANY DISCREPANCIES PRIOR TO THE INSTALLATION.
8. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
9. ALL EQUIPMENT SHALL BE GROUNDED PER VERIZON WIRELESS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
10. EQUIPMENT MOUNTING DETAIL IS PROVIDED AS SCHEMATIC IN NATURE WITH SUGGESTED PART NUMBERS, ACTUAL PARTS, MOUNTING METHOD, LOCATION AND ORIENTATION MUST BE IN ACCORDANCE WITH THE STRUCTURAL ANALYSIS OR CONFIRMED WITH THE STRUCTURAL ENGINEER THAT COMPLETED THE REPORT IF NOT PROVIDED.
11. ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, SURGE ARRESTORS, RRU'S, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE STRUCTURAL ANALYSIS (BY OTHERS)
12. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO ALL FABRICATION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO ENGINEER.
13. CONSTRUCTION SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THESE DRAWINGS DO NOT INCLUDE NECESSARY SAFETY COMPONENTS.
14. BRACE STRUCTURES SUCH AS LATERAL BRACING, ANCHOR BOLTS, ETC. SHALL BE INSTALLED UNTIL ALL STRUCTURAL ELEMENTS REACH TO REQUIRED STABILITY.
15. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OF NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
16. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
17. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
18. CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
19. REUSE EXISTING ANTENNA MOUNTS AND COAX. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED PER STRUCTURAL ANALYSIS.
20. CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN AND NOTIFY CARRIER AND ENGINEER WITH ANY DISCREPANCIES PRIOR TO THE INSTALLATION.



APPROVALS

LANDLORD _____
 LEASING _____
 R.F. _____
 ZONING _____
 CONSTRUCTION _____
 A & E _____

PROJECT NO: ERCC0004

DRAWN BY: JT

CHECKED BY: DC

SUBMITTALS

| | | |
|---|----------|------------------|
| 1 | 09/03/19 | FOR CONSTRUCTION |
| 0 | 08/13/19 | FOR PERMITTING |

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF CROWN CASTLE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

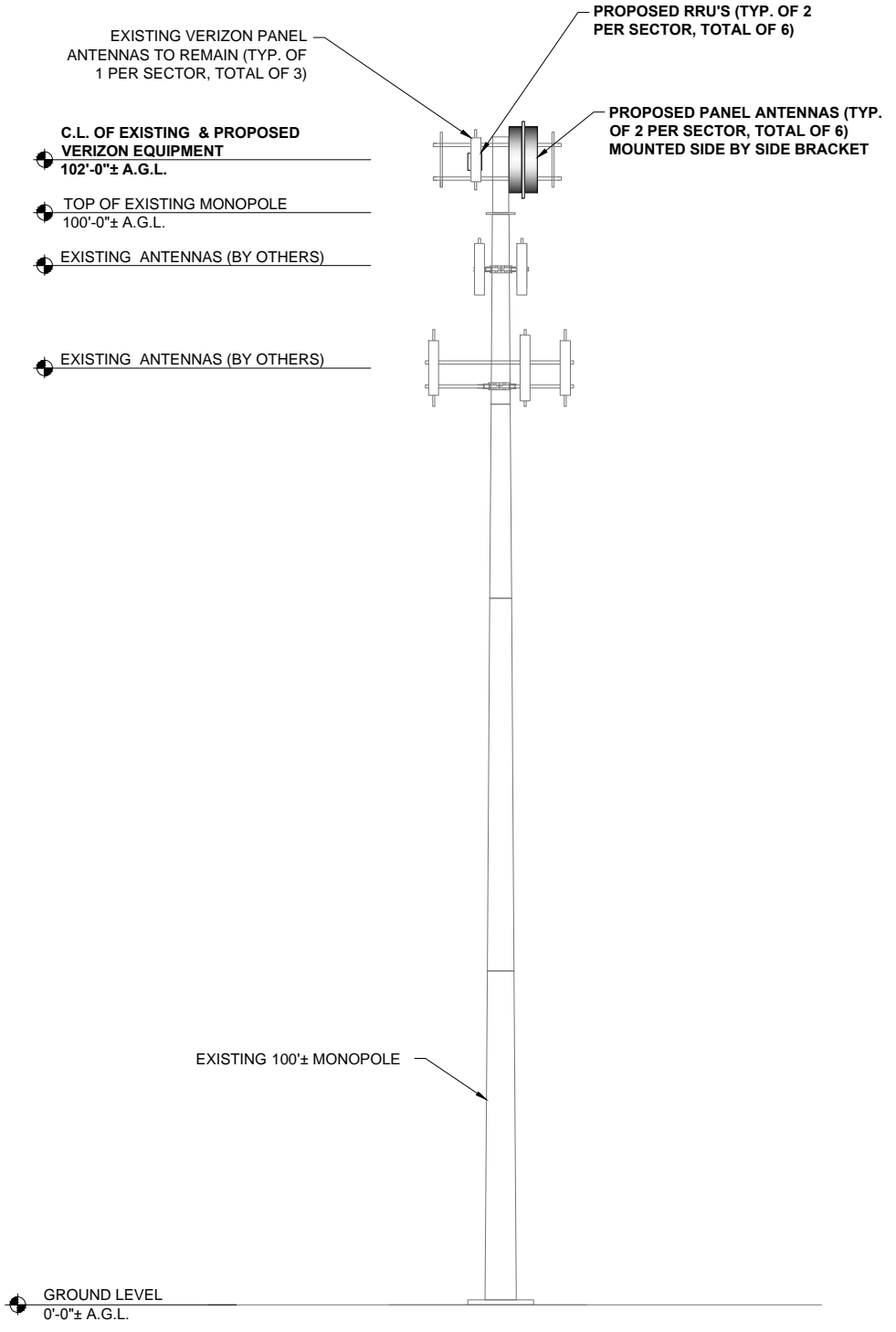
SITE NAME:
 ASHLAND MA
 CROWN CASTLE BU#:
 806042
 ALBERT RAY DRIVE
 ASHLAND, MA 01721

SITE PLAN

A-1
 CONSTRUCTION

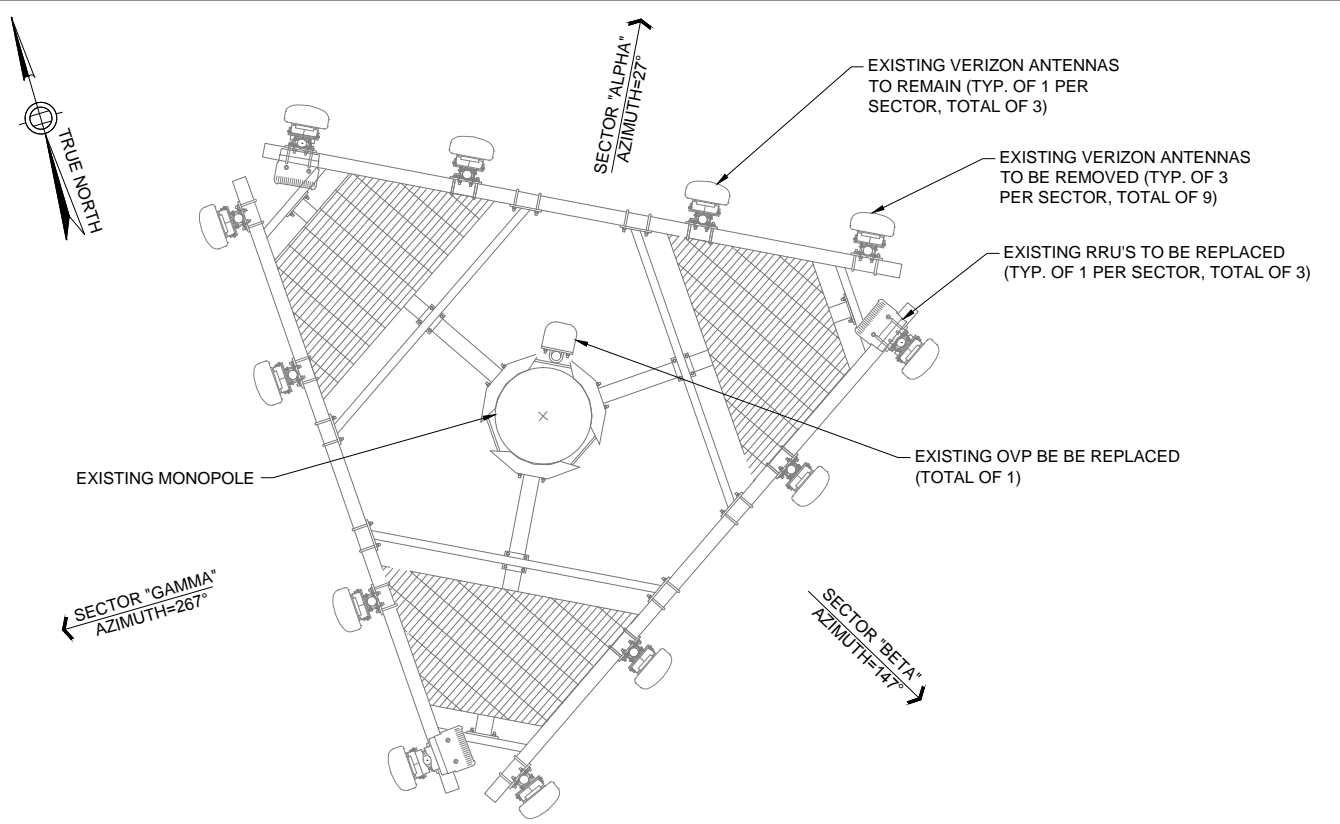
C:\pwworking\telecommunications\corning\062828363\ashland_ma_fc385000\perrin\CD_Rev0_2019.07.31.dwg [A-1] September 03, 2019 - 1:18pm Corning

C:\pwworking\telecommunications\corning\0829363\ashland_ma_fcc\8500\Permitt\CD_Rev0_2019.07.31.dwg [A-2] September 03, 2019 - 1:59pm Corning



1 SITE ELEVATION

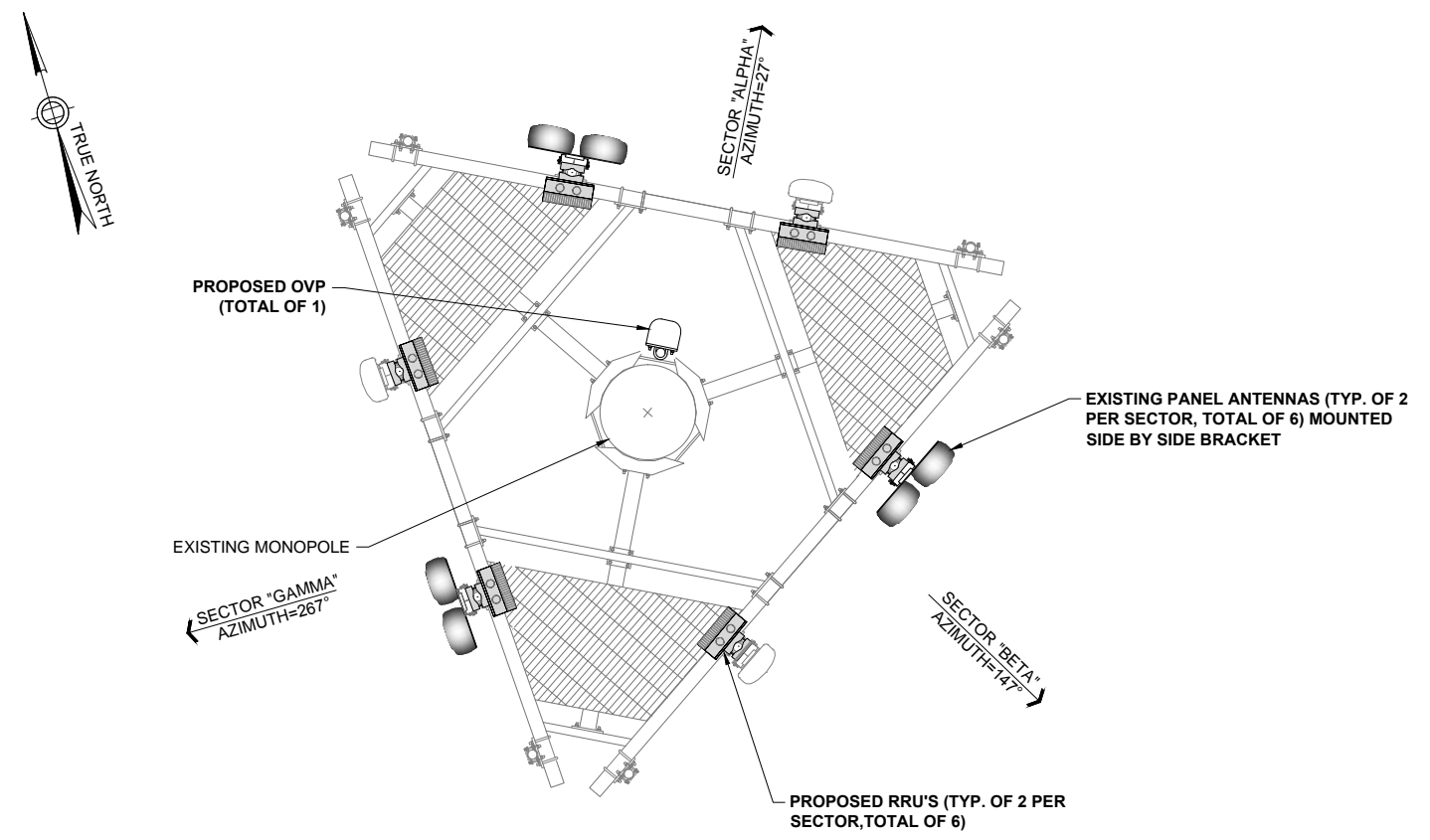
SCALE: 1/8" = 1'-0"



NOTE:
REMOVED (3) EXISTING RRU'S FROM EQUIPMENT SHELTER.

2 EXISTING ANTENNA LAYOUT

SCALE: 1/2" = 1'-0"

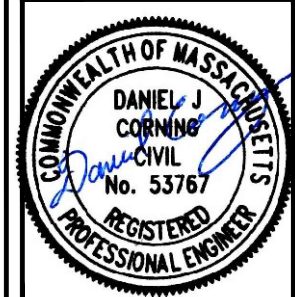


3 PROPOSED ANTENNA LAYOUT

SCALE: 1/2" = 1'-0"



JACOBS
Jacobs Engineering Group, Inc.
120 ST. JAMES AVENUE
5TH FLOOR
BOSTON, MA 02116
TEL (617) 242-9222
FAX (617) 242-9824



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: ERCC0004

DRAWN BY: JT

CHECKED BY: DC

SUBMITTALS

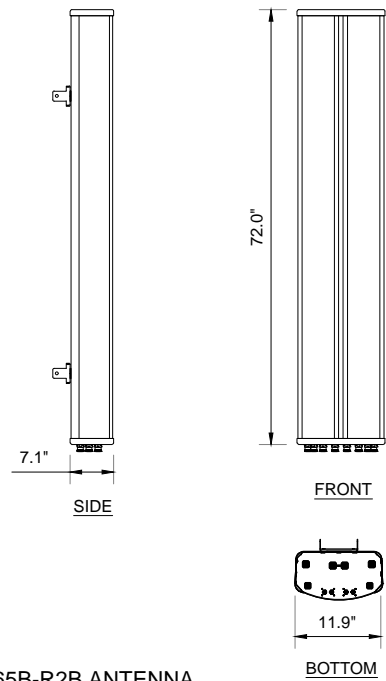
| | | |
|---|----------|------------------|
| 1 | 09/03/19 | FOR CONSTRUCTION |
| 0 | 08/13/19 | FOR PERMITTING |

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF CROWN CASTLE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

SITE NAME:
ASHLAND MA
CROWN CASTLE BU#:
806042
ALBERT RAY DRIVE
ASHLAND, MA 01721

SITE ELEVATION AND
ANTENNA LAYOUT

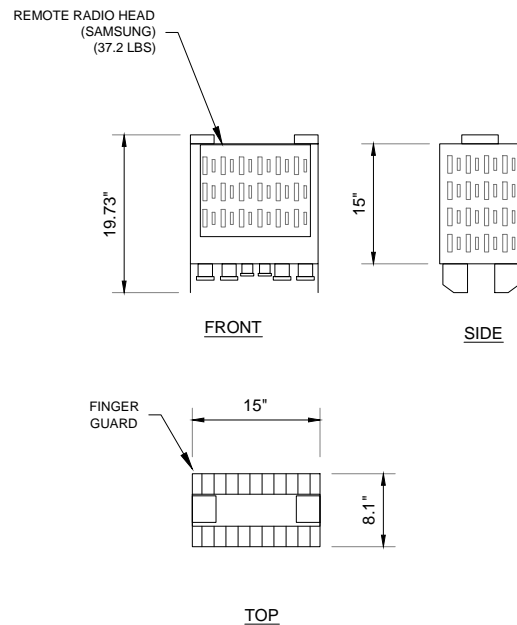
A-2
CONSTRUCTION



COMMSCOPE NHH-65B-R2B ANTENNA
DIMENSIONS: 72.0"x11.9"x7.1"
WEIGHT: 43.7 LBS.

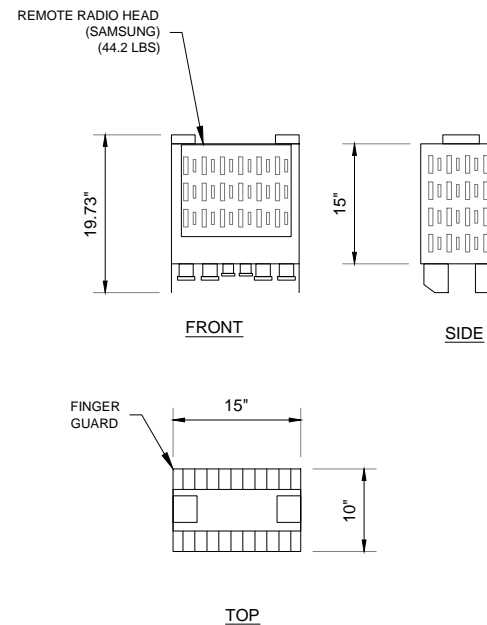
1 COMMSCOPE NHH-65B-R2B ANTENNA DETAILS

SCALE: NONE



2 SAMSUNG 700/850 RRH - RFV01U-D2A

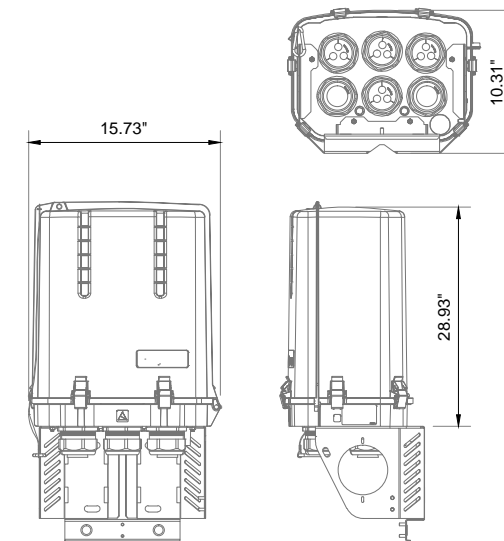
SCALE: NONE



3 SAMSUNG 1900/2100 RRH - RFV01U-D1A

SCALE: NONE

MANUFACTURER: RAYCAP
MODEL NO.: RVZDC-6627-PF-48
DIMENSIONS (HxWxD): 28.93" x 15.73" x 10.31"
735mm x 400mm x 262mm
WEIGHT (lbs): 32.0
POWER SUPPLY: -48V
TEMP. W/O SOLAR LOAD: -40° C TO 80° C



4 OVP DETAIL

SCALE: NONE



APPROVALS

LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A & E _____

PROJECT NO: ERCC0004

DRAWN BY: JT

CHECKED BY: DC

SUBMITTALS

| | | |
|---|----------|------------------|
| 1 | 09/03/19 | FOR CONSTRUCTION |
| 0 | 08/13/19 | FOR PERMITTING |

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF CROWN CASTLE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

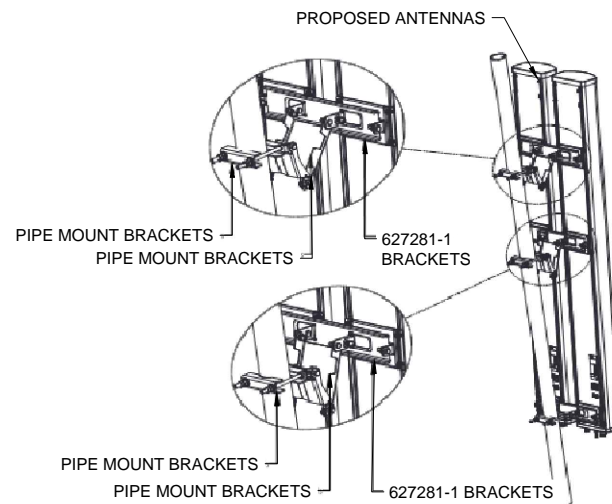
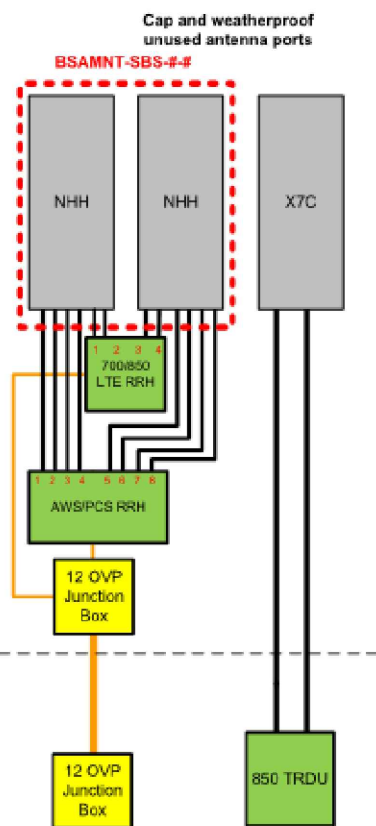
SITE NAME:
ASHLAND MA
CROWN CASTLE BU#:
806042
ALBERT RAY DRIVE
ASHLAND, MA 01721

EQUIPMENT DETAILS I

A-3

CONSTRUCTION

Diagram shows configuration as viewed from behind antennas



COMMSCOPE SIDE-BY-SIDE MOUNTING KIT
P/N: BSAMNT-SBS-1-2

5 ANTENNA PLUMBING DIAGRAM

SCALE: NONE

6 SIDE BY SIDE ANTENNA MOUNT

SCALE: NONE

7 GENERAL NOTES

SCALE: NONE

GENERAL NOTES:

- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO ALL FABRICATION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO ENGINEER.
- CONSTRUCTION SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THESE DRAWINGS DO NOT INCLUDE NECESSARY SAFETY COMPONENTS.
- BRACE STRUCTURES SUCH AS LATERAL BRACING, ANCHOR BOLTS, ETC. SHALL BE INSTALLED UNTIL ALL STRUCTURAL ELEMENTS REACH TO REQUIRED STABILITY.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OF NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- REUSE EXISTING ANTENNA MOUNTS AND COAX. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED PER STRUCTURAL ANALYSIS.
- CONTRACTOR TO VERIFY FINAL ANTENNA DESIGN AND NOTIFY CARRIER AND ENGINEER WITH ANY DISCREPANCIES PRIOR TO THE INSTALLATION.

C:\pwworking\telecommunications\corning\06293631\ashland_ma_fc385000\perrin\CD_Rev0_2019.07.31.dwg [4-3] September 03, 2019 - 11:59am Corning