

Radio Concealment Pole



Advancing
Wireless | Smart City | Smart Campus | Smart Transit
Infrastructure with Smart Products



Multi-Carrier/
Operator
Small Cell Site



Digital Displays



Public Wi-Fi



Safe City
Video Feed



Electric
Vehicle
Charging



Interactive
Tablet



Phone Charging
Station



Blue Light
Emergency Phone



FirstNet

Capable




Cities that actively engage in creating a connectivity friendly environment and develop a broadband strategy deliver significant benefits to its businesses and citizens.

FFT
FAR FIELD TELECOM



To achieve full 5G coverage, experts estimate the need for 150 to 300 sites, per carrier, per square mile. To achieve maximum public benefit and create uniformity, cities should encourage co-location of wireless carriers and smart city infrastructure. Deploying technologies without uniformity will lead to the proliferation of varied infrastructure installations (street clutter) without consideration to optimizing public benefit which ultimately increases disturbances to the city and compromises the future potential of a true, uniform, IoT solution for generations to come.



Far Field Telecom (FFT) brings the smart city industry an optimized structure that respectfully utilizes space within the public realm; the patented line of Radio Concealment Poles (RCP). To minimize the intrusiveness of antenna and equipment installations and the overall amount of oDAS and small cell sites, it is essential that each structure be utilized as efficiently as possible.

The basis of the design was to create flexibility by offering the most usable interior volume for public mesh network Wi-Fi, commercial wireless, public safety equipment, and city infrastructure installations while simultaneously promoting ease of access for equipment maintenance and flexibility for installation of future technologies.

The solution is a structure with true multi-technology and/or multi-carrier/operator potential, easily adaptable to any location, and able to accept next-generation equipment. Cities can realize the full benefit of flexibility to seamlessly deploy both today's and future technologies. Once deployed, the RCP allows for multiple networks to be developed.

The RCP gives cities the ability to proactively promote co-location of technologies to expedite technological advancement while mitigating public impact.

Aesthetically Versatile

Maximum Interior Volume

Modular & Expandable

Installation & Maintenance

Aesthetically Versatile

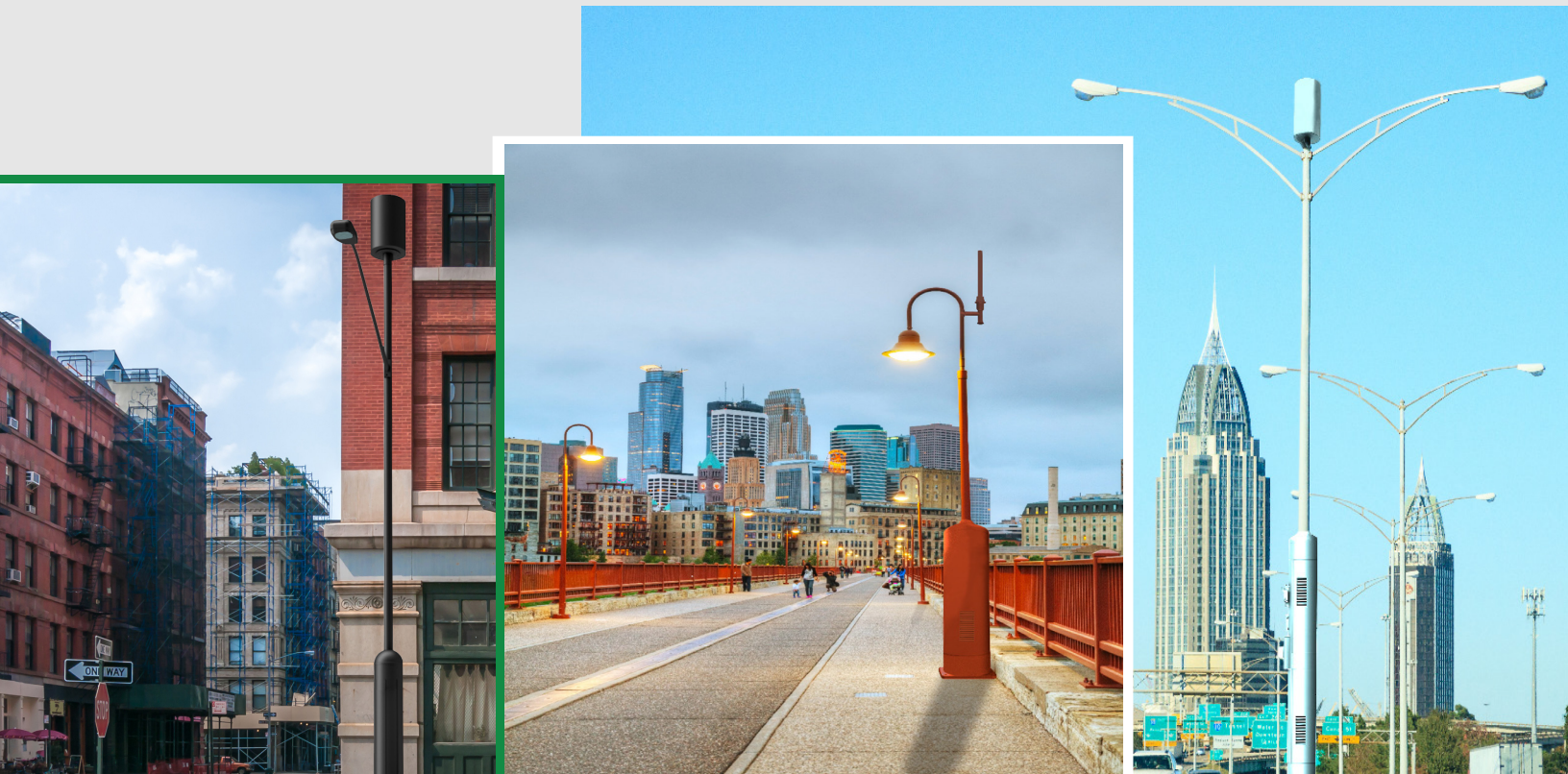
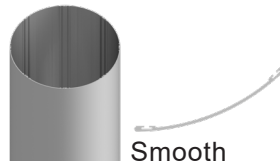
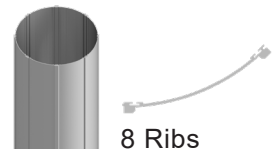
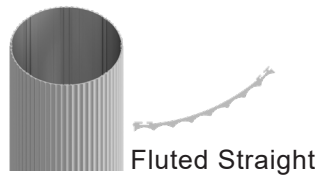
LOCAL REQUIREMENTS

- Non-structural exterior
- Customizable
- Match color and texture to existing vicinity

SUPERIOR FIT & FINISH

- Sleek and smooth exterior
- Doors integrated into pole skin eliminates door seams
- No external fasteners

Multiple panel finishes available. Patterns can be alternated or completely customized, making any aesthetic attainable for any community.



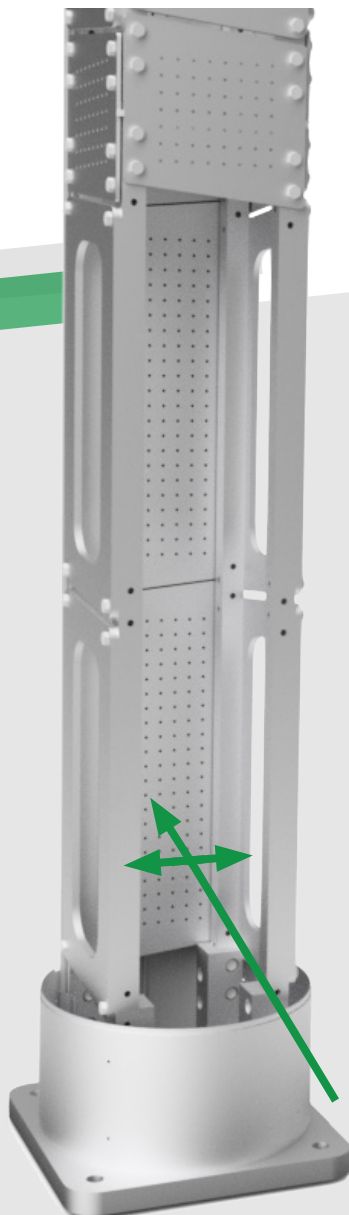
Maximum Interior Volume

ROOM TO BREATHE

- One adaptable, agnostic structure
- All technologies within a single pole
- Better cooling for improved reliability and lowered maintenance costs

MORE = LESS

- Less structures needed to house existing and future technologies
- Reduces need for structure clutter within cities



The RCP18 has 11.5" x 11.5"* of unobstructed interior space

*Pole dimension customization is infinitely scalable based upon installation requirements

Modular & Expandable

MODULAR SYSTEM

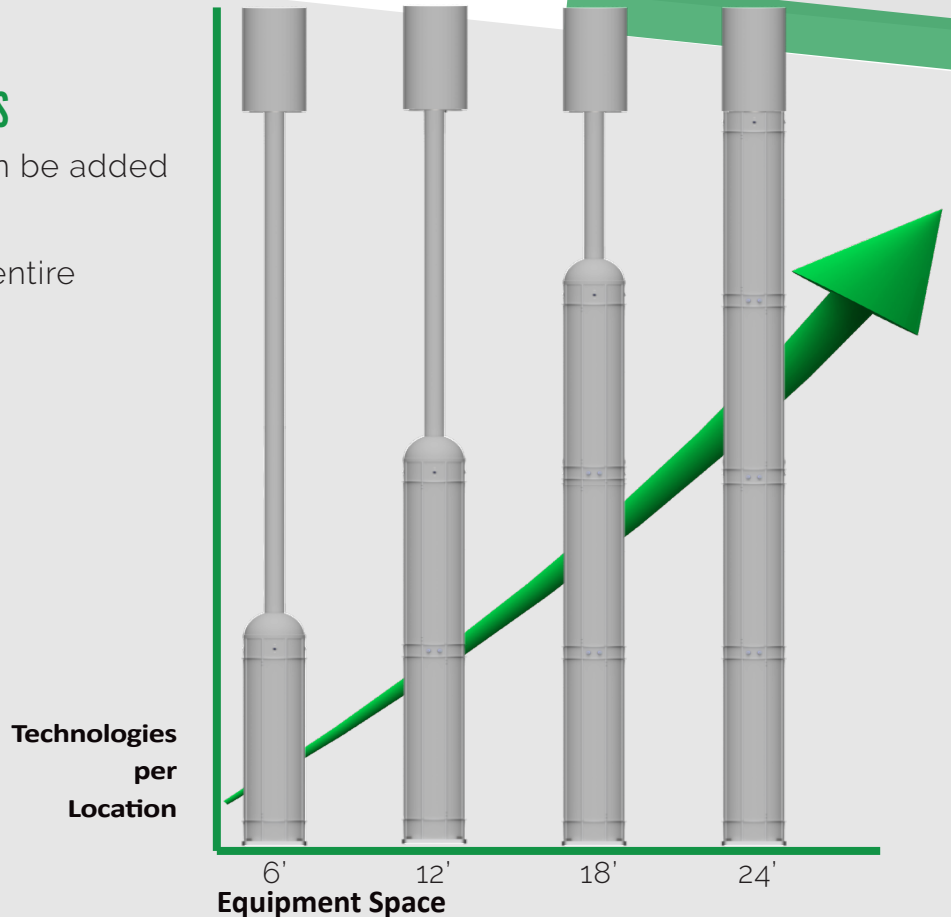
- Maximized equipment volume at each location
- Adaptable to accommodate new space requirements
- Limits number of deployments needed

FUTURE PROOF

- Designed with new technologies in mind
- No need for additional or new infrastructure
- Cities can adopt and deploy new technologies using existing pole infrastructure

FLEXIBLE CONFIGURATIONS

- Additional radio sections can be added to existing sections
- Eliminates need to replace entire structure



Installation & Maintenance

LIGHTWEIGHT CONSTRUCTION

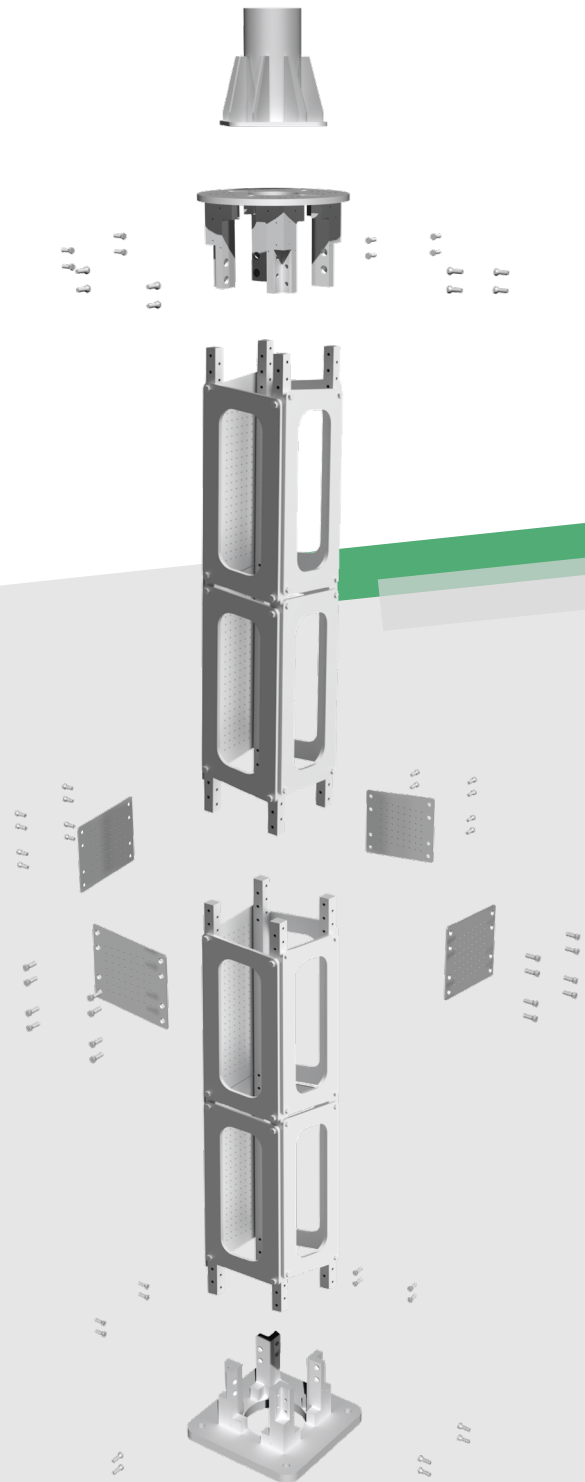
- Small crew and basic tools needed for installation
- No need for cranes or other heavy equipment

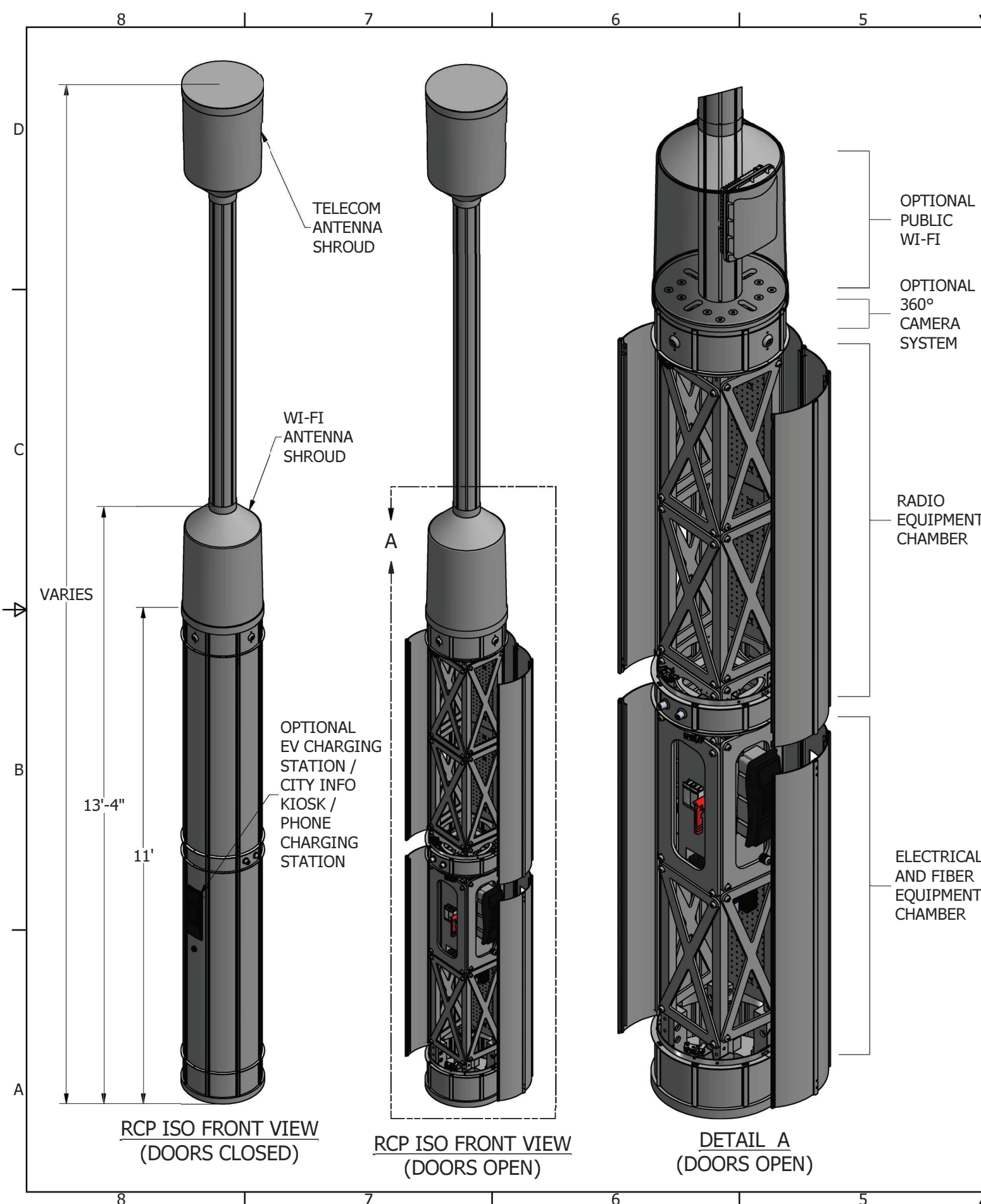
MINIMAL IMPACT

- Street closures unnecessary in many instances
- Minimal traffic and pedestrian disruption

EASY ACCESS

- Doors designed to facilitate simple access
- Reduced installation and maintenance time and cost
- Secure design keeps vandals out while keeping equipment in, in the event of vehicular collisions





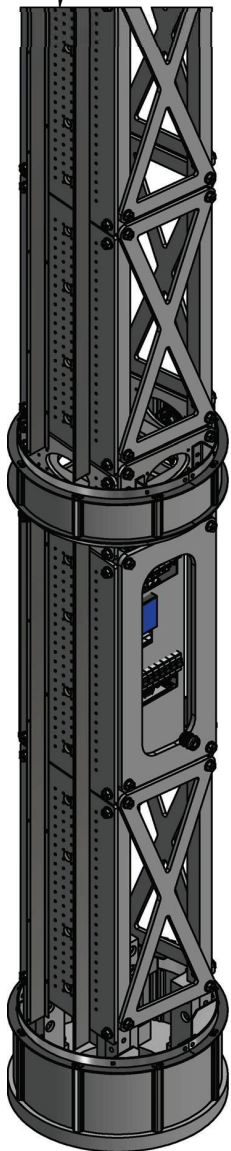
MATERIAL SPECIFICATIONS:

- THE FOLLOWING COMPONENTS ARE 6061-T6 ALUMINUM:
- 1. SOLID STRUCTURAL PROFILES
- 2. SHEETS AND PLATES
- 3. EXTRUSIONS
- ALL BOLTS ARE GRADE 8, CHROME PLATED.
- ANTENNA CONCEALMENT IS RF TRANSPARENT PLASTIC.
- CONCRETE FOUNDATION SHALL BE 4KSI WITH CLASS "C".
- ALL CONCRETE REINFORCEMENT SHALL CONFORM TO A615 GRADE 60.
- ANCHOR BOLTS SHALL BE F1554, GRADE 55, GALVANIZED.

DESIGN SPECIFICATIONS:


- 2015 AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
- 2015 ALUMINUM LRFD DESIGN MANUAL.
- 130 MPH (3-SECOND WIND GUST) EXTREME WIND LOADING CONDITION.
- 76 MPH SERVICE WIND LOADING CONDITION.
- 1/2" ICE WITH 40 MPH WIND LOADING CONDITION.
- AASHTO EXTREME RISK CATEGORY OF 700-YEAR MRI 3-SEC WIND GUST EXPOSURE CATEGORY C AT 33 FT ABOVE MEAN SEA LEVEL.
- DRAG AND WIND LOAD COEFFICIENTS PER AASHTO DESIGN SPECIFICATIONS.

COAX, FIBER,
AND ELECTRICAL
CABLING ROUTED
VERTICALLY ALONG
BACKSIDE CHAMBER



RCP ISO REAR VIEW
(DOORS NOT SHOWN
FOR CLARITY)

D
C
B
A

Date: 01/29/19	 FAR FIELD TELECOM LLC 27 PINE HILL ROAD, ANNANDALE, NJ 08801 (P) 908.345.6363 WWW.FARFIELDTELECOM.COM	
Drawn By: Daniel Hernandez		
Checked: Craig Andrews	RCP MATERIAL AND DESIGN SPECIFICATIONS	
Approved: Chad Schwartz, PE		
REV: Rev 0	DWG NAME: FFT-RCP18	1 of 1

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Call or click today and let's get started making your city future ready.

ONLINE

www.FarFieldTelecom.com

PHONE

+1.908.345.6363

ADDRESS

Far Field Telecom LLC
27 Pine Hill Road
Annandale, NJ 08801



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