



**CITY OF FORT LAUDERDALE
ENGINEERING DIVISION
APPLICATION TO INSTALL AT GRADE
COMMUNICATIONS SERVICE FACILITIES**

PERMIT NO. CC13-05
District 3

Rec'd 9/2/13
on hold until they submit proper landscaping

Applicant Name and Job Number Crown Castle SFL 61_2

Job Address and Location 539 NW 17th Avenue

Description of Work Installing cabinet and utility pole within right-of-way.

Anticipated start and end dates of work 11/4/13 - 45 days

- This permit application is for an exemption from the requirement to install communications service facilities below grade, in accordance with Section 25-100.1.B.3 of the City of Fort Lauderdale Code of Ordinances (Code). A letter by a qualified expert(s) is attached.
- Crown Castle is requesting the following waivers (check all applicable subsections and attach supporting documentation):
 - C.1 (Size)
 - C.2 (Height)
 - C.3 (Front Yard)
 - C.4 (Corner Yard)
 - C.6 (Separation)
 - C.7 (Exist. Facility)
 - C.12 (Collector)

- With the exception of any waivers that may be checked above, the proposed at grade facilities conform to the requirements in Section 25-100.1 of the Code
- Notice of the pending application has been provided to all property owners abutting public rights-of-way within one hundred fifty (150) feet of the proposed site and to the relevant homeowner association, in accordance with Section 25-100.1.E.5 of the Code.
- The proposed site will be maintained by Crown Castle in accordance with the approved Graffiti Mitigation Plan dated 04/04/2013, which is on file with the City Engineer
- A landscaping maintenance commitment letter from the adjacent property owner and relevant home owner association is attached to this application.
- Crown Castle shall be responsible for maintaining landscaping
- The proposed at grade facilities depicted on the attached plans are completely located in the public rights-of-way.

As an authorized representative of Crown Castle, I certify under oath that the forgoing statements are true and correct.

Armando Hernandez
Printed Name of Authorized Crown Castle Agent

Armando Hernandez
Signature of Authorized Crown Castle Agent

Sworn to and subscribed before me this 24 day of Sept, 2013

Shane Hafner
Notary Public,
State of Florida

My Commission Expires 9-3-16



(Do not write below this line)

Conceptual approval date _____ by _____, Subject to the following conditions:

- 1) A detailed visual mitigation plan is required

Final Permit approval date _____ by _____

Final Inspection date _____ by _____

**Notify Engineering Permits Division 24 hours prior to starting work at (954) 828-5649

REVIEW CHECKLIST FOR CABINETS IN RIGHTS-OF-WAY

Permit No. CC13 - 05

- Application Package complete – 3 sets (JJ)**
 - Verified addresses of property owners and HOA to which notice was provided
 - Random audit of package to property owners
 - Feasibility letter, site plan, landscaping plan, aerial photo, 5 pictures
 - Easement and property information provided
- CC memo provided to Commission (JJ)**
- 15-Day Call up Memo to Commission (JJ)**

Criteria for cabinets in Rights-of-Way

	Plan Review Checklist	Comments
<input type="checkbox"/>	Evaluation and approval of any waivers identified on application (size, height, corner yard, > 3 cabinets per block, modification of existing cabinet, conflict with future sidewalk)	
<input checked="" type="checkbox"/>	Sum of H + W + L not greater than 124" and H not greater than 5'-8"	
<input checked="" type="checkbox"/>	Cabinet not in front yard	
<input checked="" type="checkbox"/>	Proposed landscaping is in accordance with plan on file with City	<i>No</i>
<input checked="" type="checkbox"/>	If landscaping is to be maintained by Property Owner, Agreement has been provided	Crown Castle
<input checked="" type="checkbox"/>	Landscaping plan has been checked by Dave Genarro	
<input checked="" type="checkbox"/>	New cabinet is at least 2 feet from other cabinets, poles, etc.	<i>OK</i>
<input checked="" type="checkbox"/>	Cabinet not in sight triangle (sight triangle may be reduced to 10 feet)	<i>OK</i>
<input checked="" type="checkbox"/>	ADA requirements met	<i>OK</i>
<input checked="" type="checkbox"/>	Roadside recovery setback met (per Florida Green Book)	<i>OK</i>
<input checked="" type="checkbox"/>	Cabinet/landscaping is at least one foot from sidewalk	<i>OK</i>
<input checked="" type="checkbox"/>	Cabinet would not conflict with future sidewalk	<i>OK</i>
<input checked="" type="checkbox"/>	Field face cabinet to R/W	<i>✓</i>
	Field Inspection Checklist	Comments
<input type="checkbox"/>	Type and location of topographic features shown on permit plan are consistent with field conditions	
<input type="checkbox"/>	H + W + L not greater than 124" and H not greater than 5'-8"	
<input type="checkbox"/>	There are no conflicts with existing utility lines and new cabinet location would not hinder access to utilities or be within excavation trench over the pipe	
<input type="checkbox"/>	New cabinet is at least 2 feet from other cabinets, poles, etc.	
<input type="checkbox"/>	New cabinet is not in sight triangle – visual check performed in field	
<input type="checkbox"/>	ADA requirements met – minimum clearances/slopes measured	
<input type="checkbox"/>	Roadside recovery setback measured	
<input type="checkbox"/>	Cabinet/landscaping (measured) is at least one foot from sidewalk	
<input type="checkbox"/>	Landscaping is per permit plans and effectively screens cabinet	
<input type="checkbox"/>	Cabinet would not conflict with future sidewalk	
<input type="checkbox"/>	Dimensions for cabinet location measured	
<input type="checkbox"/>	Not more than three communication cabinets per block (unless waiver approved)	
<input type="checkbox"/>	Electrical Permit – Final inspection passed	

TEMPORARY MODIFICATION OF TRAFFIC (MOT) ROUTING FORM

DATE: **9/25/13**

APPLICANT/ADDRESS/PHONE:

Crown Castle NG East, Inc.

8555 NW 64th Street

Miami, Fl. 33166

813-447-0333

PERMIT NO. _____

(PROVIDED BY CITY AT TIME OF PERMIT APPLICATION)

PROJECT NAME/ADDRESS: **SFL 61-2**

- This routing form should be completed and submitted as an attachment to the above-referenced permit (hereinafter "PERMIT").
- Obtaining signatures on this routing form does not constitute any approvals by the City. The MOT may be implemented only after issuance of the PERMIT, subject to satisfaction of all prerequisite conditions.
- This form is for MOT's within rights-of-way under City of Fort Lauderdale's jurisdiction. If the MOT or detour routes affect rights-of-way under Broward County jurisdiction, the County's form (available on the City website) should also be completed with the required signatures and attached. If the detours affect FDOT right-of-way, a permit from FDOT must be attached.
- If work is taking place in County or FDOT R/W, an MOT permit is not required from the City. However, PERMIT applicant (hereinafter APPLICANT) is asked to provide two weeks advance notice of any closures or detours to the City's Public Information Office.

Specific dates and times requested for MOT implementation:

Begin _____ End _____

Describe Work, including location of site and address, names of affected streets, why MOT is necessary, nature of the construction, deliveries, staging areas, if cranes will be used, etc. (staging and storage of materials/equipment are not permitted in the right-of-way). Please note if additional sheets have been attached for the description of work.

539 NW 17th Ave. approximately 77' South of NW 6th Place. Work on shoulder and sidewalk closure. Place new telecommunications cabinet and new 40' wood utility pole. Attach Crown Castle antenna to new 40' wood utility pole.

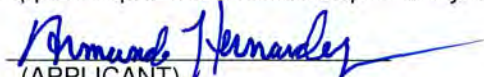
Describe MOT, the number of lanes affected on each street, if metered parking spaces will be displaced, if detours are necessary, if flagmen will be provided, if MOT will be full-time (or times of day the MOT is to be in effect) and any other special considerations related to this request. Please note if additional sheets have been attached for the description of MOT.

FDOT 602 & 660 attached. Daily work hours 8am - 4pm.

Attach: MOT plan prepared by a certified worksite traffic control technician or traffic control supervisor (as appropriate for the complexity of the job), with a copy of current certification.

If implementation of an approved PERMIT is found to adversely affect public safety and/or public convenience or there is a conflict with a higher public purpose, the APPLICANT may be required to modify the MOT plan or the PERMIT may be temporarily suspended or permanently revoked at any time with reasonable notice from the City.

The MOT plan shall be in accordance with provisions of the latest edition of Part IV of the Manual of Uniform Traffic Control Devices for Streets and Highways and FDOT Design Standards. Compliance with the requirements of the approved plan shall be the responsibility of the APPLICANT.


(APPLICANT)

Armando Hernandez / Site Development Manager
(Print Name/Title)

As a consideration for the permission granted herein, **Armando Hernandez** (APPLICANT) agrees to indemnify and hold harmless the City of Fort Lauderdale for any damages, claims or injuries that may result from the MOT plan approved under the PERMIT.

Crown Castle NG East Inc.
(Name of Company)

By: 
(Company Officer, President, or Authorized Agent)

Project Name: _____ PERMIT NUMBER: _____

Applicant should collect the signatures in this section (if required). To expedite processing, signatures may be requested concurrently via fax or pdf and provided on separate copies of this page.

(Date)

Police Department (Patrol Secretary Office)
(Required only if MOT includes a detour for any direction of travel)
1300 West Broward Boulevard
Tel.: (954) 828-5477 (call for appointment)

(Date)

Fire-Rescue Department
(Required only if MOT includes a detour for any direction of travel)
Bill Findland, Assistant Chief
528 NW 2nd Street
Tel.: (954) 828-4351 (call for appointment); Fax: (954) 828-6843

(Date)

Maj Shakib/ Studies Section
(Required only if MOT/detour affects County road or intersection)
2300 W. Commercial Boulevard
(Please call (954) 847-2655 for appt. Walk-ins NOT accepted)

After above signatures are collected, Applicant should forward the MOT Plan and this routing form to the person listed below.

(Date)

Transportation and Mobility
Heslop Daley, Project Engineer
290 NE 3rd Avenue
Tel: (954) 828-5734 Fax: (954) 828-3734

City Manager's signature to be requested by City Staff only (if signature is required)

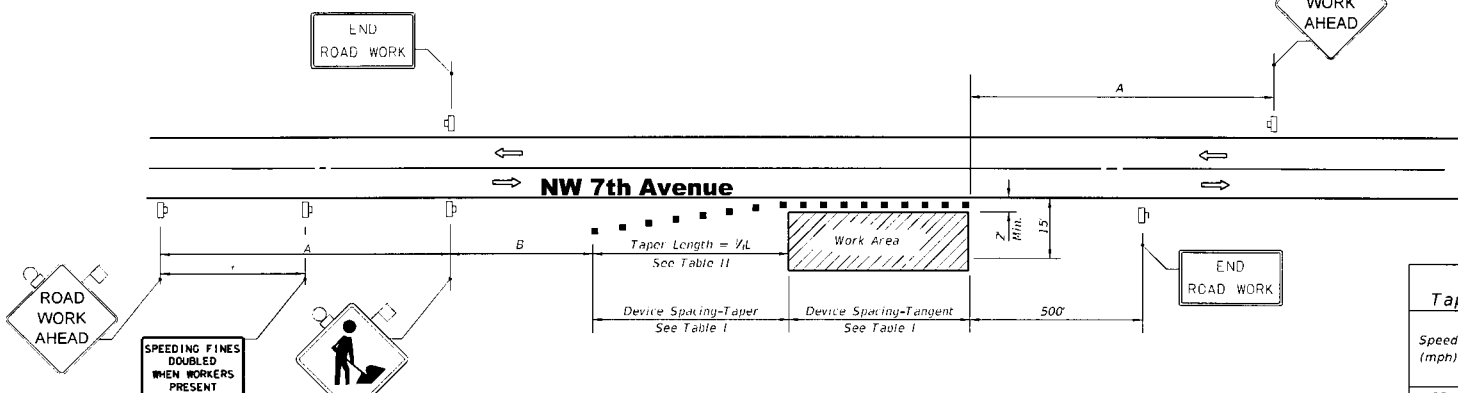
(Date)

City Manager's Office
Lee R. Feldman, ICMA-CM, City Manager
100 N. Andrews Avenue, 7th Floor
Tel.: (954) 828-5013 or Fax: (954) 828-5121

A copy of the PERMIT, this routing form and MOT shall be kept on-site and made available to the City inspector at all times.

This form is for MOT plans associated with private utility projects and private development projects. MOT plans for City Capital Improvement Projects shall be coordinated through Engineering Inspection or the Project Manager. Traffic modifications required for special events shall be arranged through the City's Special Events Coordinator, Jeff Meehan at (954) 828-6705.

6-16(03)12 2-14-13 BH 1-889A
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Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

*Midway between signs.

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
	25	25	50	25
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Speed (mph)	1/2 L (ft)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	L = WS / 60
30	40	50	60	
35	55	68	82	
40	72	90	107	
45	120	150	180	L=WS
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

8' minimum shoulder width

1/2 L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

SYMBOLS

- Work Area
- Sign With 18" x 18" (Min) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index No. 603.
2. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
3. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
4. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

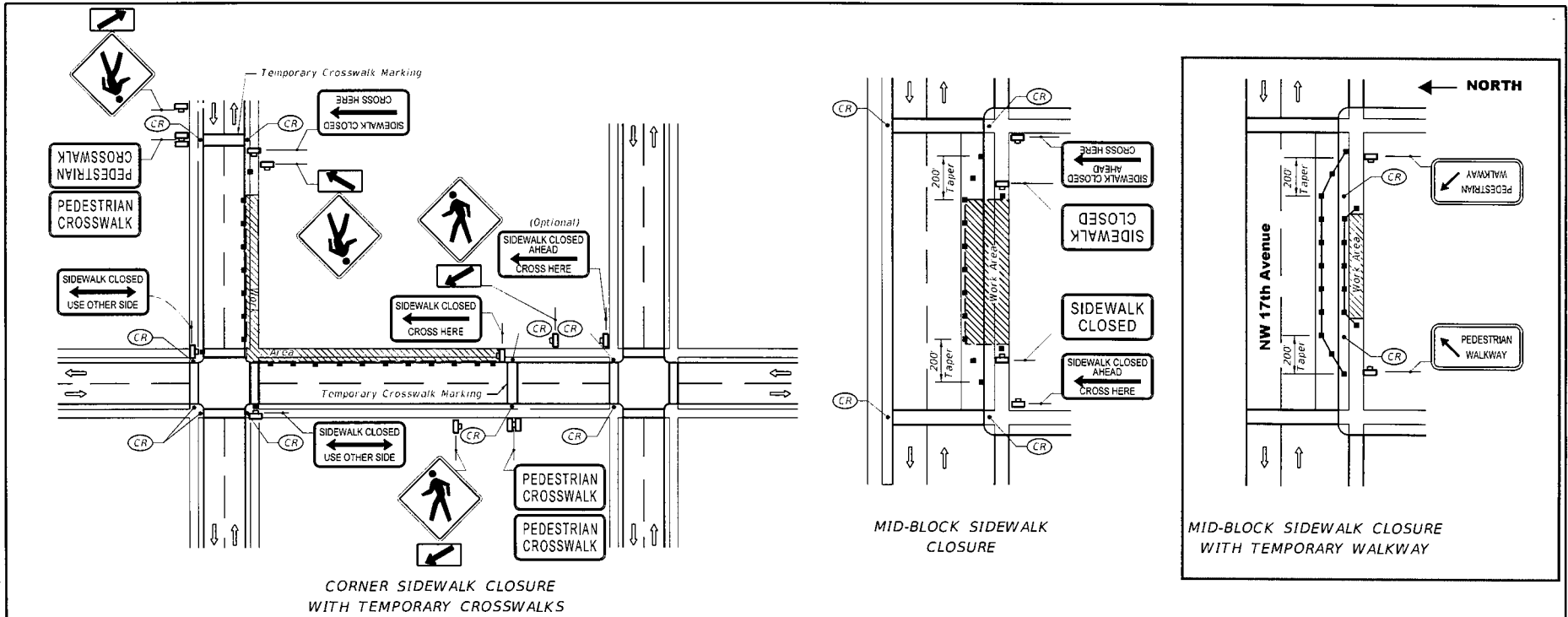
1. Signs and channelizing devices may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less.
 - b. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

LAST REVISION	REVISION	DESCRIPTION	FDOT DESIGN STANDARDS 2013	TWO-LANE, TWO-WAY, WORK ON SHOULDER	INDEX NO. 602	SHEET NO. 1
07/01/12						

6-162022 13-1621-PR 10/06/14 C:\p\projects\standards\standards\06605-1-03650-01-101



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALKS

MID-BLOCK SIDEWALK CLOSURE

MID-BLOCK SIDEWALK CLOSURE WITH TEMPORARY WALKWAY

GENERAL NOTES

1. Only the signs controlling pedestrian flows are shown. Other work zone signs will be needed to control traffic on the streets.
2. For spacing of traffic control devices and general TCZ requirements refer to Index No. 600. Maximum spacing between barricades, vertical panels, drums or tubular markers shall not be greater than 25'.
3. Street lighting should be considered.
4. For nighttime closures use Type A flashing warning lights on barricades supporting signs and closing sidewalks. Use Type C steady-burn lights on channelizing devices separating the work area from vehicular traffic.
5. Pedestrian traffic signal display controlling closed crosswalks shall be covered or deactivated.
6. Post Mounted Signs located near or adjacent to a sidewalk shall have a 7' minimum clearance from the bottom of sign to the sidewalk.
7. When construction activities involve sidewalks on both sides of the street, efforts should be made to stage the construction so that both sidewalks are not out of service at the same time.
8. In the event that sidewalks on both sides of the street are closed, pedestrians shall be guided around the construction zone.
9. Temporary walkways shall be a minimum of 4' wide with a maximum 0.02 cross slope and a maximum 0.05 running slope between ramps. Temporary walkways less than 5' in width shall provide for a 5' x 5' passing space at intervals not to exceed 200'. Temporary ramps shall meet the requirements for curb ramps specified in Index No. 304. Temporary walkway surfaces and ramps shall be stable, firm, slip resistant, and kept free of any obstructions and hazards such as holes, debris, mud, construction equipment, stored materials, etc.
10. Temporary ramps and temporary crosswalk markings shall be removed with reopening of the sidewalk, unless otherwise noted in the plans. All work and materials associated with constructing temporary curb ramps and temporary crosswalk markings, removal and disposal of temporary curb ramps and temporary crosswalk markings, and restoration to original condition shall be paid for as Maintenance of Traffic, Lump Sum.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT WORKERS OR THEIR ACTIVITIES ENCROACH ON THE SIDEWALK FOR A PERIOD OF MORE THAN 60 MINUTES.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Required Locations For Either Temporary Or Permanent Curb Ramps.
- Lane Identification + Direction of Traffic
- Pedestrian Longitudinal Channelizing Device

LAST REVISION	DESCRIPTION:	 FDOT DESIGN STANDARDS 2013	PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS	INDEX NO.	SHEET NO.
07/01/12				660	1



Crown Castle
8555 NW 64th Street
Miami, Florida 33166-2628
MelissaP.Anderson@crowncastle.com

Office 786-899-5911
Mobile 561-310-9261
Fax 305-591-1469
www.crowncastle.com

April 4, 2013

City Engineer
City of Ft. Lauderdale
100 N. Andrews Avenue
Ft. Lauderdale, Florida 33301

Re: Crown Castle NG East Inc. Application for Exemption from Below Grade Requirement

Dear City Engineer:

In accordance with Section 25-100.1(b) of the city's Communications Rights-of-Way Ordinance (the "Ordinance"), Crown Castle NG East Inc. ("Crown Castle") submits this application for an exemption from the below grade requirement. As is set forth in the attached letter from Wayne Waldron, Director of Implementation for Crown Castle in the Southeastern Region, an exemption is appropriate, as a hardship would result from the imposition of the requirement. Placing the communications service facility described in the attached right-of-way permit application ("Facility") below grade is: 1. technologically infeasible; 2. a below grade facility is not available in the marketplace; and 3. all reasonable alternatives have been exhausted.

Given that Crown Castle has shown by a preponderance of the evidence that a hardship would result if an exemption were not granted, Crown Castle requests that City Engineer grant an exemption from Section 25-100.1(b) of the city's code.

Very Truly Yours,

A handwritten signature in black ink, appearing to be 'M.A.', with a long horizontal line extending to the right.

Melissa P. Anderson
Government Relations Counsel
Southeastern Region

cc: Wayne Waldron, Director of Implementation


ATTACHMENT 1
Certification in Support of Application to City of Ft. Lauderdale for
Exemption from Below Grade Requirement

My name is Wayne W. Waldron and my title with Crown Castle is Director of Implementation for the Southeastern Region.

My background and experience in the telecommunications field is as follows: Prior to joining Crown Castle served as Division Manager of 7 state Southwest Division for utility construction (telephone, electric, water, gas, sewer, CATV) firm Henkels and McCoy, Inc. of Blue Bell PA for 10 years, Operations Controller managing Long Island Sound Crossing project for Pirelli Cable Systems of Florham Park NJ for 3 years, Vice President of Liberty General Contracting providing utility construction services in Pottstown PA for 4 years, Vice President of Construction and Engineering for RCN Corporation of Princeton NJ overseeing installation of fiber cabling for telephone, CATV and internet services for 7 years.

My education and training includes but is not limited to: Received Bachelors of Science in Business Administration with a major in Accounting from Temple University in 1980. I have taken continuing education courses in Fiber Optic Technology from Oklahoma State University, Effective Management from Harvard University, Electrical Design from University of Texas Arlington.

Given my education, background and experience, I am an expert regarding communications equipment and, in particular, regarding the communications equipment necessary for Crown Castle to pursue the current planned installation of a DAS network in Ft. Lauderdale. The communications service facility (Facility) that is described in the attached right-of-way permit application is necessary for the current DAS network. The Facility will house active electronics. Based upon my expertise, I hereby certify that placing the Facility below grade is technologically infeasible, that a below grade facility is not available in the marketplace and that all reasonable alternatives have been exhausted. Accordingly, Crown Castle requests an exemption from the below grade requirement contained in Section 25-100.1(b) of the city's code.



Wayne W. Waldron
Director of Implementation
Southeastern Region

Crown Castle NG East Inc. Graffiti Mitigation Plan

Pursuant to the City of Ft. Lauderdale's Communications Service Facility Right-of-Way Ordinance No. C-07-108, this Graffiti Mitigation Plan describes how Crown Castle NG East Inc. ("Crown Castle") will maintain communications service facilities governed by the Ordinance free from graffiti, including inspecting them no less frequently than every 90 days and removing graffiti within 7 working days from receipt of notice thereof from the City.

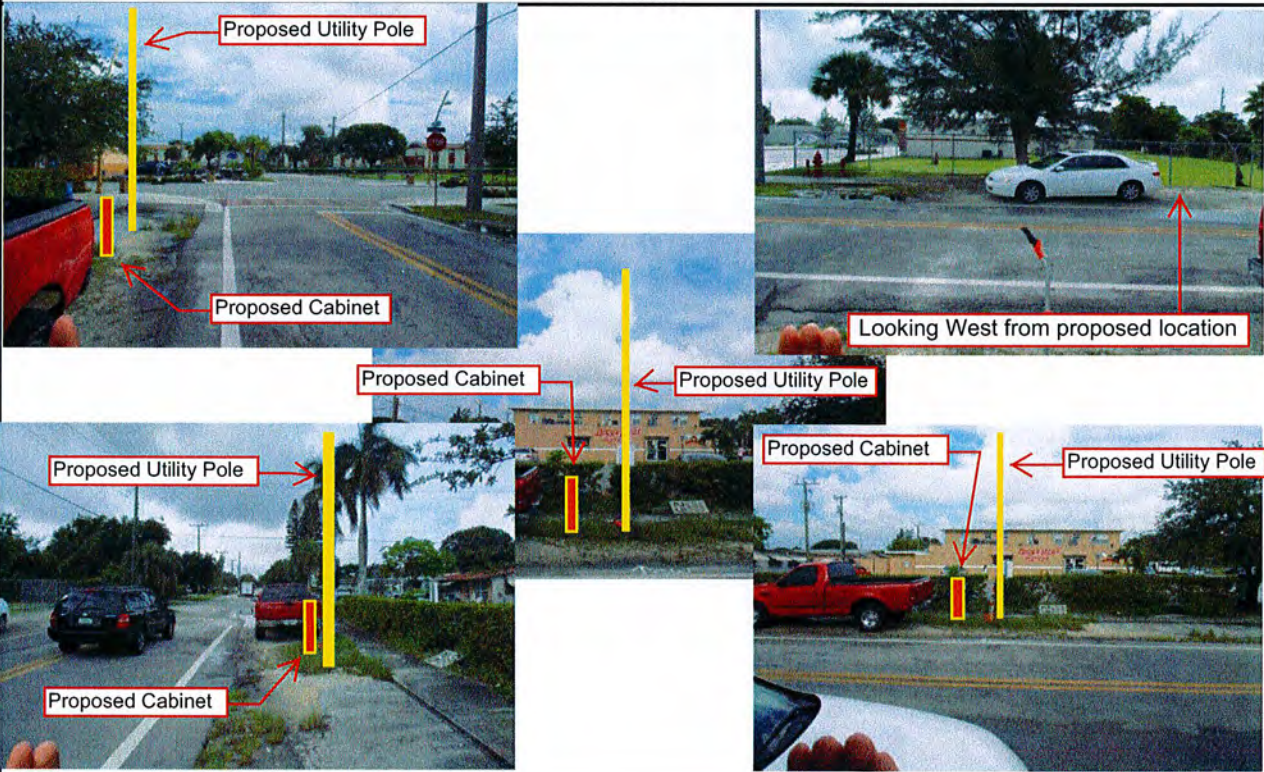
Crown Castle removes graffiti found on its equipment cabinets, including when graffiti is found by Crown Castle personnel or brought to Crown Castle's attention by other parties. Crown Castle removes graffiti with either mineral spirits or paint thinner. A rag is soaked with the solvent and rubbed lightly over graffiti. The solvents will remove spray paint and permanent marker, which are the most difficult forms of graffiti to remove. In cases where the graffiti cannot be cleaned or where Crown Castle determines that paint is the better option, matching paint is applied. The Crown Castle contact person for graffiti issues is Armando Hernandez. His contact information is: office: 786 899-5914 Cell: 813 447-0333.



Crown Castle Node Survey Sheet

Customer:	MetroPCS	Candidate Letters	m3
Project:	South Florida	Date:	7/25/2013
Polygon:	61		
Polygon_Node:	61_2		
Latitude:	26.128999		
Longitude:	-80.165199		
Street Address:	539 NW 17th Ave, Fort Lauderdale 33311		
On Street:	NW 17th Ave		
Cross Street 1:	NW 6th St.		
Cross Street 2:			
City, Florida:	Fort Lauderdale		
Pole ID:	New		
Antenna Height:	34		
Power on Pole:	None	If no secondary, how far to secondary?	
Telco on Pole:	No	If no telco, how far to pole with telco?	
Pole Type:	Wood	New Pole	Pole Owner: CCI
Pole Access:			Pole size: 40 ft
Photo of Pole:		If yes, photo #s?	
Pole marked:			
Pole Location Description:			
Equipment on Pole:			
Comments:	Cabinet on ground		

Photos



September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Betty Hankerson,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 539 NW 17th Avenue Ft. Lauderdale, Fl. 33311

Crown Castle NG East Inc. is sending this notice to you as provided in City Ordinance No. C-07-108, which requires that notice of right-of-way permit application for the communications facility be provided to certain parties in the vicinity of the right-of-way.

A drawing showing the proposed placement and location is attached. The permit application may be reviewed at the City engineer's Office located at City Hall 100 N. Andrews Avenue.

The communications facility will enable Crown Castle NG East Inc. to offer new and enhanced communications services to customers in your neighborhood.

If you have any questions, please feel free to contact me at (305) 728-0154

Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Dorothy Brown,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 539 NW 17th Avenue Ft. Lauderdale, FL 33311

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Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Dorsey Riverbend Civic Association,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 539 NW 17th Avenue Ft. Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Everlena Seymore,

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Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Fort Lauderdale Community Redevelopment Agency,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 539 NW 17th Avenue Ft. Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Gihad & Ikram Hasan,

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Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
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M Jr. & Ludeather Carter,

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Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Marianne Davis,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 539 NW 17th Avenue Ft. Lauderdale, FL 33311

Crown Castle NG East Inc. is sending this notice to you as provided in City Ordinance No. C-07-108, which requires that notice of right-of-way permit application for the communications facility be provided to certain parties in the vicinity of the right-of-way.

A drawing showing the proposed placement and location is attached. The permit application may be reviewed at the City engineer's Office located at City Hall 100 N. Andrews Avenue.

The communications facility will enable Crown Castle NG East Inc. to offer new and enhanced communications services to customers in your neighborhood.

If you have any questions, please feel free to contact me at (305) 728-0154

Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Pamela Corp.,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 539 NW 17th Avenue Ft. Lauderdale, FL. 33311

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Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Ralph Rachels,

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Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Shakira Ray,

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Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.

September 25, 2013

**Notice of Right-of-Way Permit Application
Submitted to City of Ft. Lauderdale**

Zakzook Inc.,

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If you have any questions, please feel free to contact me at (305) 728-0154

Sincerely,

Armando Hernandez

Site Development Manager

Crown Castle NG East Inc.



CROWN CASTLE SFL61_2

539 NW 17TH AVENUE
FORT LAUDERDALE, FLORIDA 33311

NEW WOOD POLE

CLIENT :

CLIENT SITE ID#:

ADDRESS:

SITE TYPE:

PROPERTY INFORMATION

SITE COORDINATES: 26.128999° -80.165199° **2**
JURISDICTION: CITY OF FORT LAUDERDALE

PROPERTY OWNER: CROWN CASTLE
ADDRESS: 8555 NW 64TH STREET
MIAMI, FL 33166

PROJECT TEAM

PROJECT MANAGEMENT FIRM: CROWN CASTLE
ADDRESS: 8555 NW 64TH STREET
MIAMI, FL 33166

ENGINEERING FIRM: AW SOLUTIONS, INC.
ADDRESS: 300 CROWN OAK CENTRE DR.
LONGWOOD, FL 32750
CONTACT: SHANE HAFNER
PHONE: 407.260.0231 EXT. 120
FLORIDA COA#: 26983

DESIGN CRITERIA:

- FLORIDA BUILDING CODE 2010 AND ASCE 7-10. WIND LOAD PER ASCE 7-10.
 - ULTIMATE WIND SPEED: 170 MPH.
 - BUILDING RISK CATEGORY: II.
 - WIND EXPOSURE: C.
- DEAD LOAD:
 - EQUIPMENT WEIGHT PER MANUFACTURER DATA.
- SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

DRAWING INDEX

SHEET	SHEET DESCRIPTION	REV
T1	TITLE SHEET	2
C1	SITE PLAN	2
C1.1	SITE PLAN ENLARGEMENT	2
C1.2	LANDSCAPE MITIGATION PLAN	2
C2	ELEVATION	2
C3	DETAILS	1
C4	DETAILS	1
SP1	SPECIFICATIONS	1
SP2	SPECIFICATIONS	1

APPROVALS

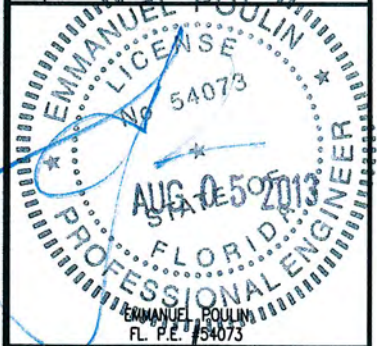
PROJECT MANAGER: _____ DATE: _____
CARRIER: _____
UTILITY: _____



300 CROWN OAK CENTRE DRIVE
LONGWOOD, FL 32750
TEL: 407.260.0231
FAX: 407.260.0749
FL COA#: 26983

DRAWN BY: EW CHECKED BY: JD

REV	DATE	DESCRIPTION
2	07/26/13	REVISED NODE LOCATION
1	05/03/13	REVISED PER COMMENTS
0	10/30/12	ISSUED FOR PERMIT



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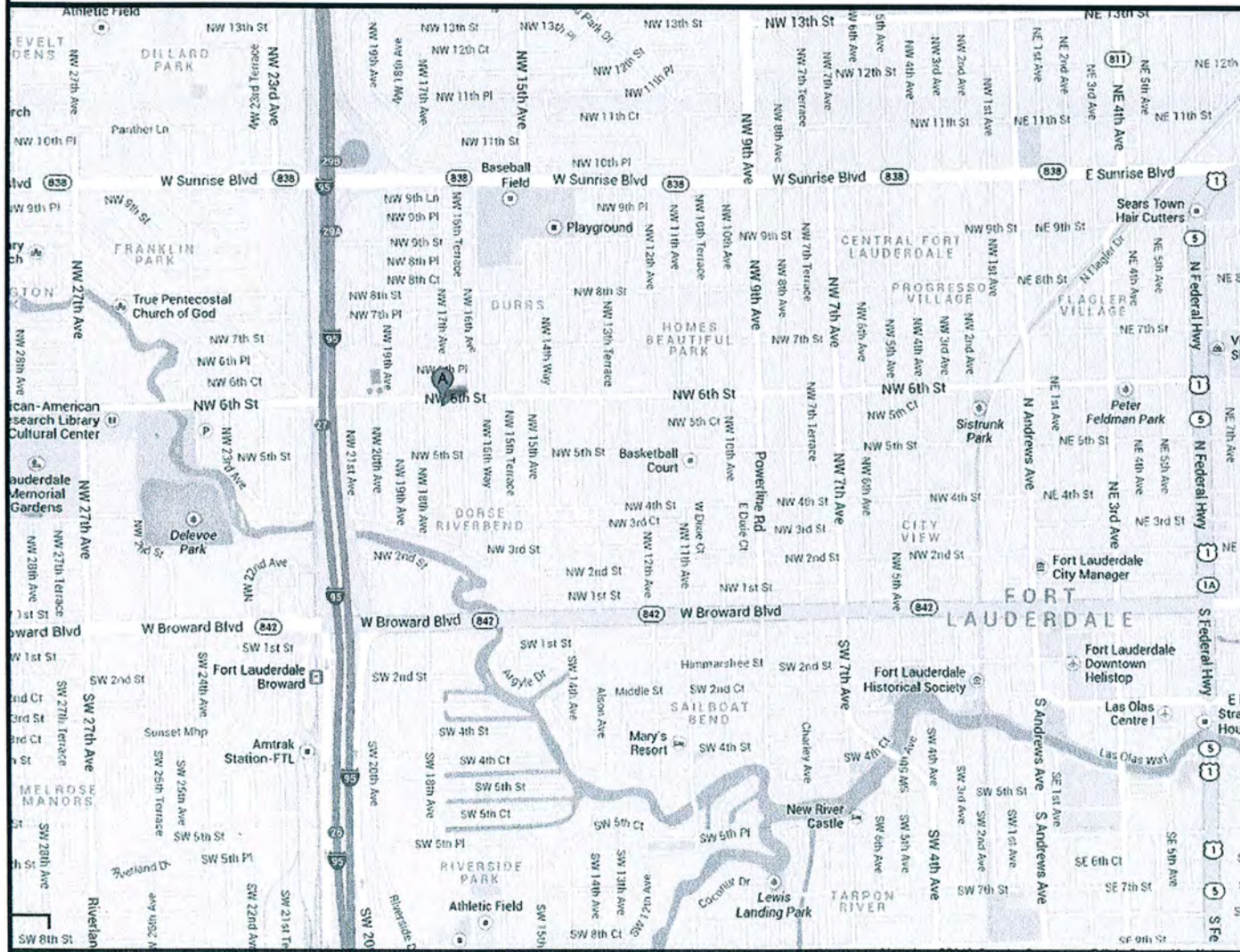
ADDRESS: 539 NW 17TH AVENUE
FORT LAUDERDALE, FL 33311

SHEET TITLE:

TITLE SHEET

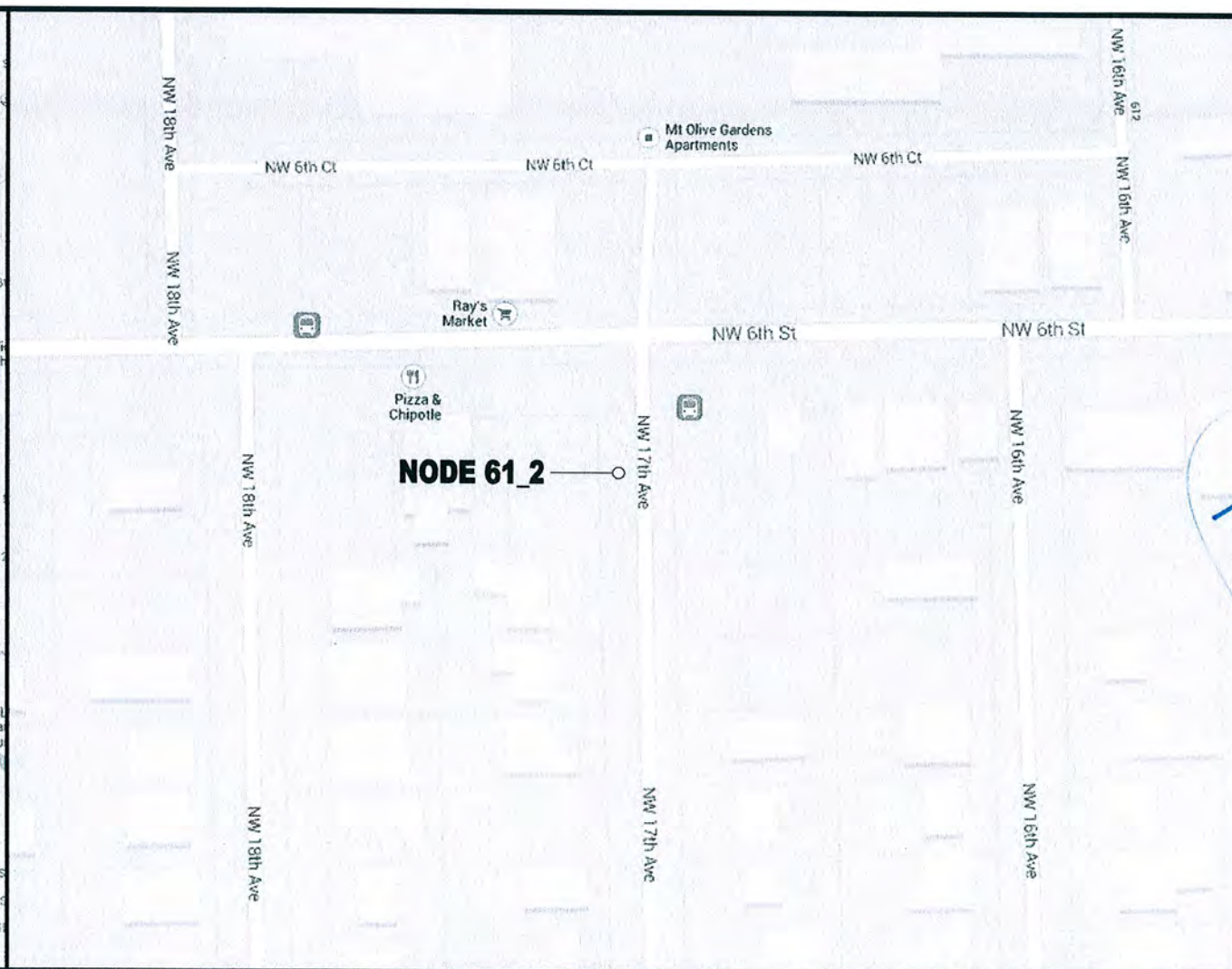
SHEET NUMBER:

T1



DRIVING DIRECTIONS **GENERAL VICINITY MAP**

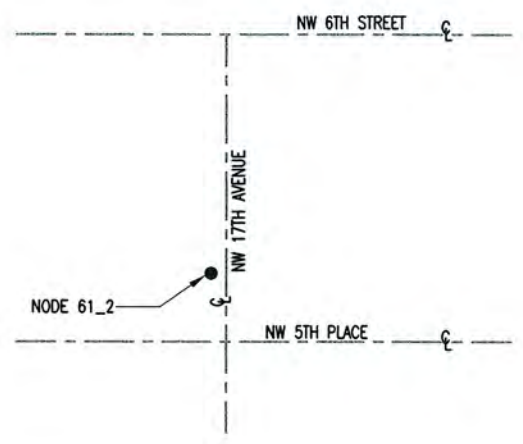
FROM MIAMI, TAKE I-95 NORTH TO EXIT 29A, MERGE ONTO FL-838 EAST/WEST SUNRISE BLVD., TURN RIGHT ONTO NW 17TH AVENUE, TURN RIGHT ONTO NW 7TH PLACE, TAKE LEFT ONTO NW 18TH AVENUE, DESTINATION WILL BE ON RIGHT



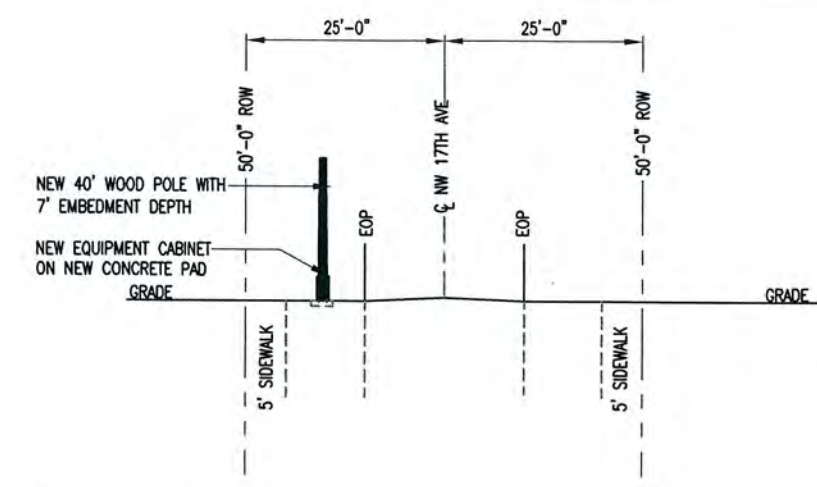
SPECIFIC LOCATION MAP



UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-432-4770
48 HOURS BEFORE YOU DIG



1 LOCATION SKETCH
SCALE: NTS

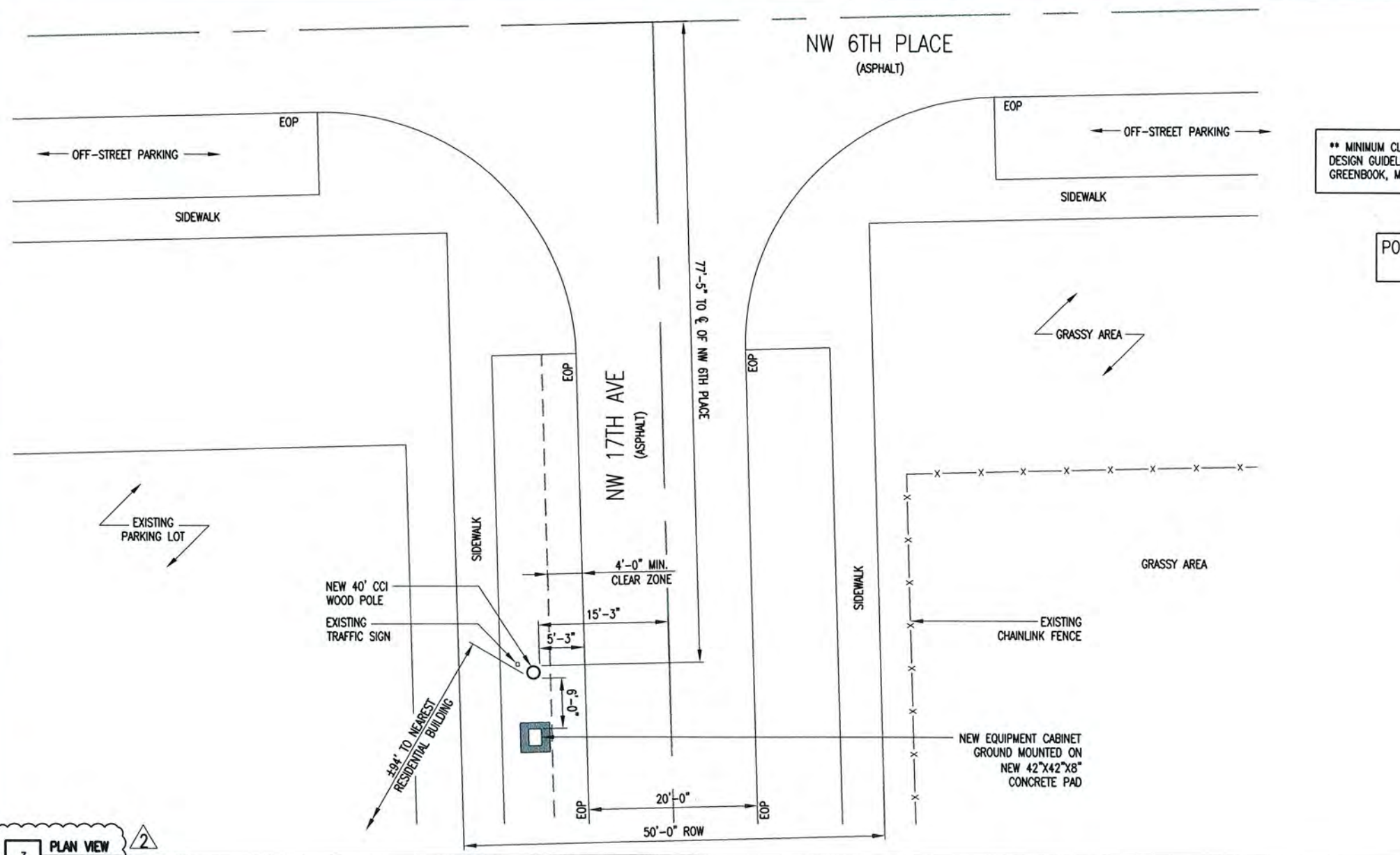


2 TYPICAL PROFILE VIEW
SCALE: NTS



300 CROWN OAK CENTRE DRIVE
LONGWOOD, FL 32750
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FAX: 407.260.0749
FL COA# 26983

DRAWN BY:	EW	CHECKED BY:	JD
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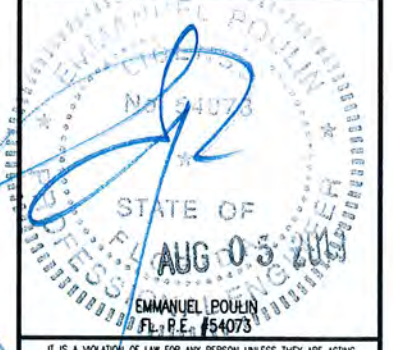
3 PLAN VIEW
SCALE: NTS

** MINIMUM CLEAR ZONES ILLUSTRATED USING DESIGN GUIDELINES FROM FDOT FLORIDA GREENBOOK, MAY 2007 EDITION

POSTED SPEED LIMIT:
25MPH



UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-432-4770
48 HOURS BEFORE YOU DIG



- NOTES:**
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
 - CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN FOR PEDESTRIAN TRAFFIC AND WORK WITHIN THE RIGHT-OF-WAY, INCLUDING VEHICLE PARKING AND EQUIPMENT STAGING.
 - CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO ORIGINAL CONDITION OR BETTER.

SYMBOL LEGEND

— E —	POWER CONDUIT	— SS —	STORM UTILITY POLE
— T —	TELCO CONDUIT	⊗	HYDRANT
— F —	PROPOSED FIBER CONDUIT	⊙	MANHOLE
— OHE —	OVERHEAD CONDUCTORS	— C —	CENTERLINE OF ROAD
— G —	GROUNDING	○	PROPOSED WOOD UTILITY POLE
— X —	FENCE	□	PROPOSED CONCRETE UTILITY POLE
— W —	WATER		
— S —	SEWER		

1 ← REPRESENTS DETAIL #
C7 ← REPRESENTS SHEET #

NOTE 1 ← REPRESENTS NOTE
SHT E7 ← REPRESENTS SHEET #

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SITE#: SFL61_2
ADDRESS: 539 NW 17TH AVENUE
FORT LAUDERDALE, FL 33311

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C1

REV	DATE	DESCRIPTION
2	07/26/13	REVISED NODE LOCATION
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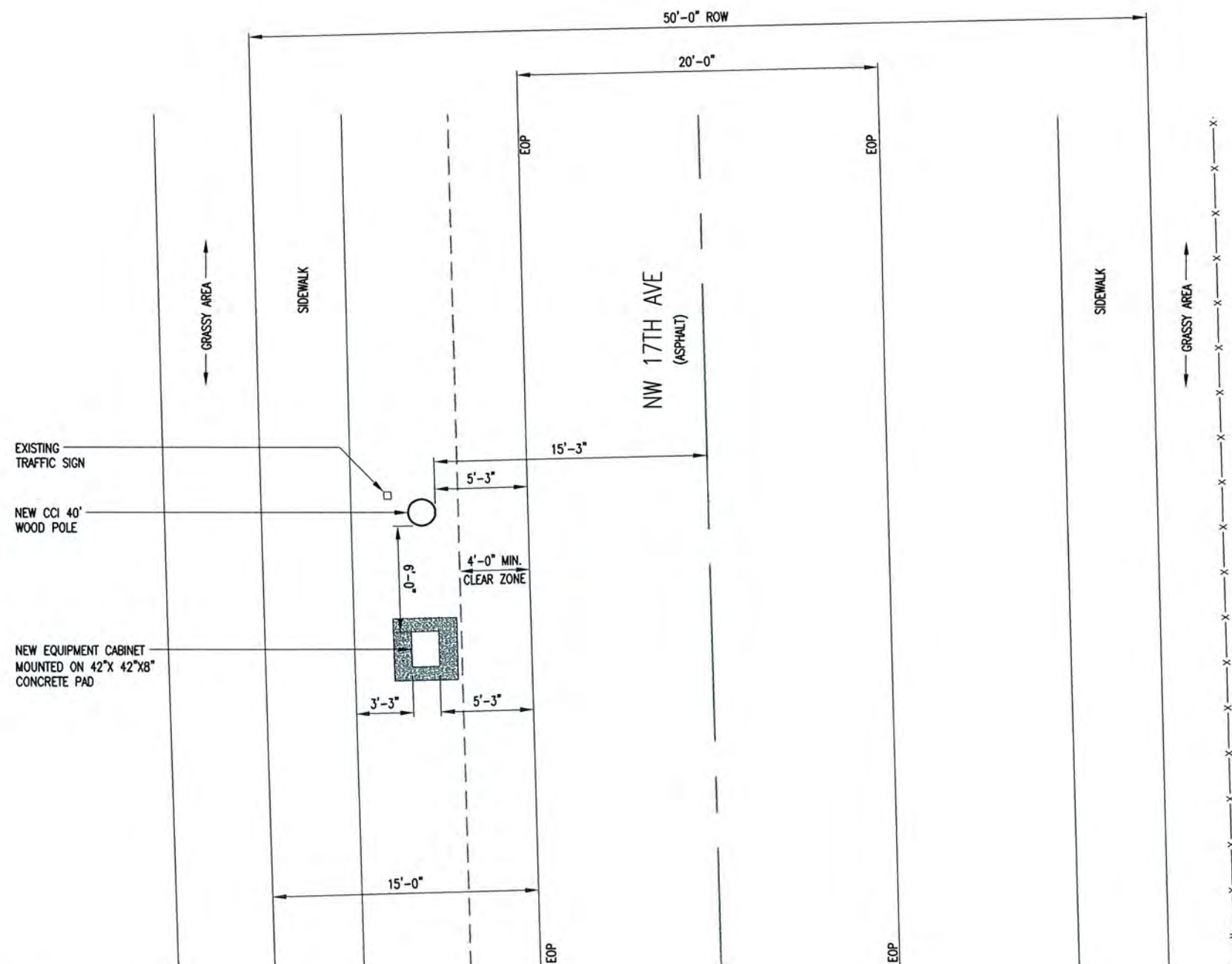
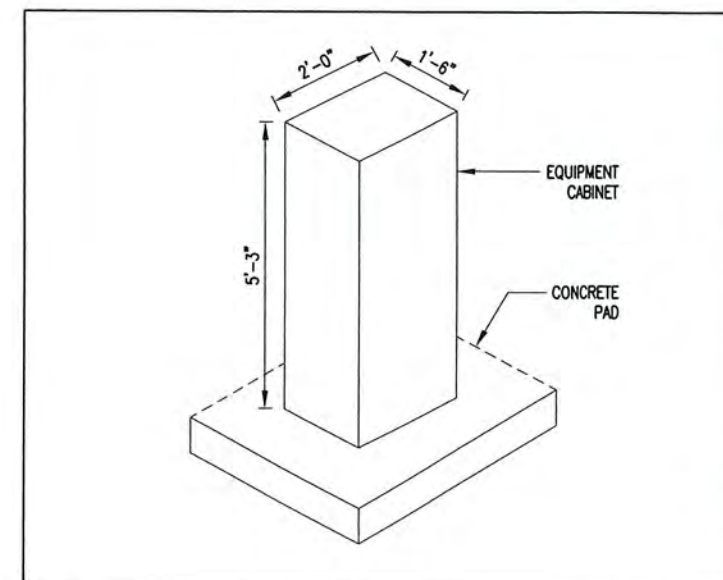
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SITE#: SFL61_2

ADDRESS: 539 NW 17TH AVENUE
FORT LAUDERDALE, FL 33311

SHEET TITLE:
SITE PLAN ENLARGEMENT

SHEET NUMBER:
C1.1



UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-432-4770
48 HOURS BEFORE YOU DIG

NOTES:

- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
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— F —	PROPOSED FIBER CONDUIT	⊕	HYDRANT
— DHE —	OVERHEAD CONDUCTORS	⊙	MANHOLE
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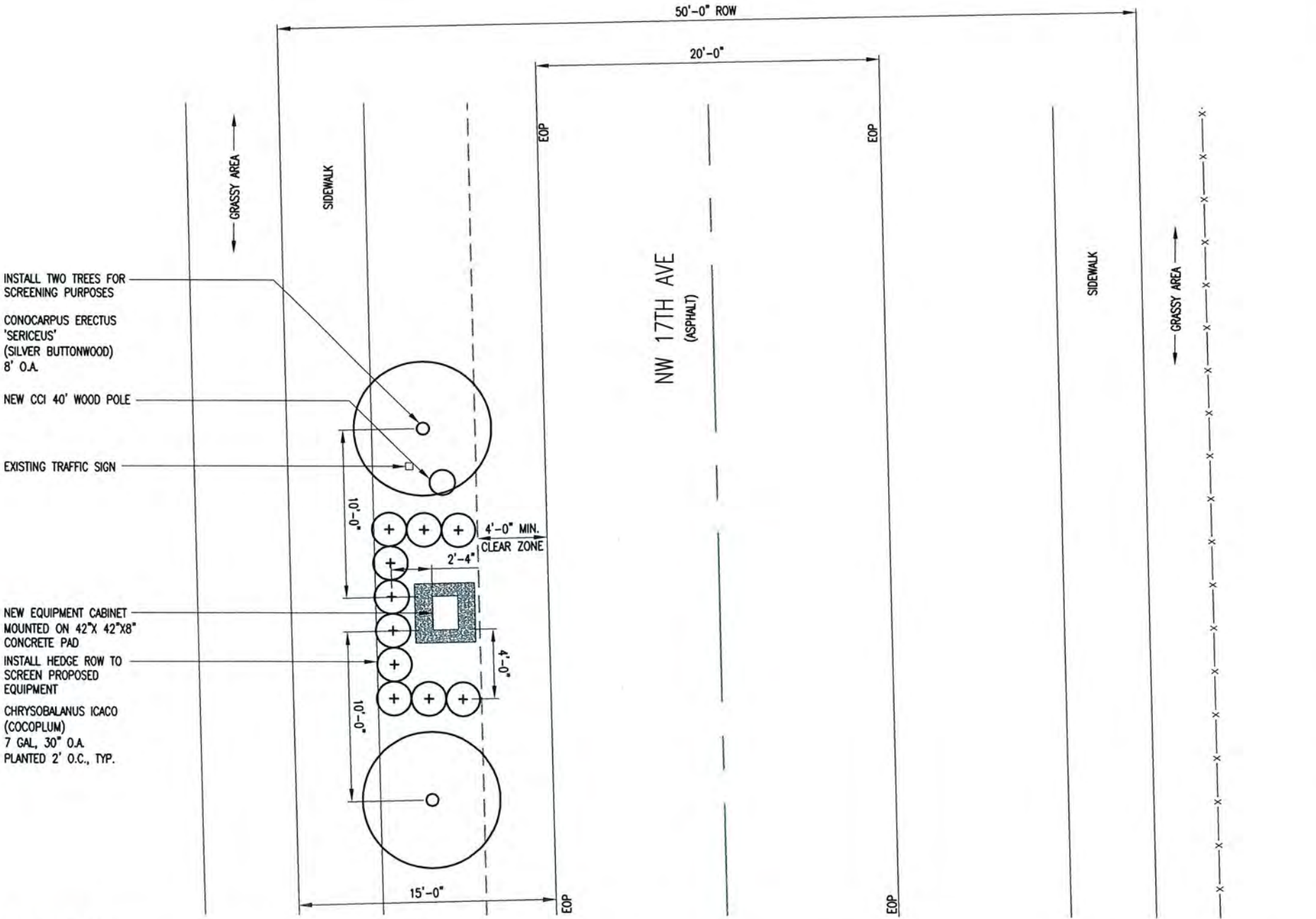
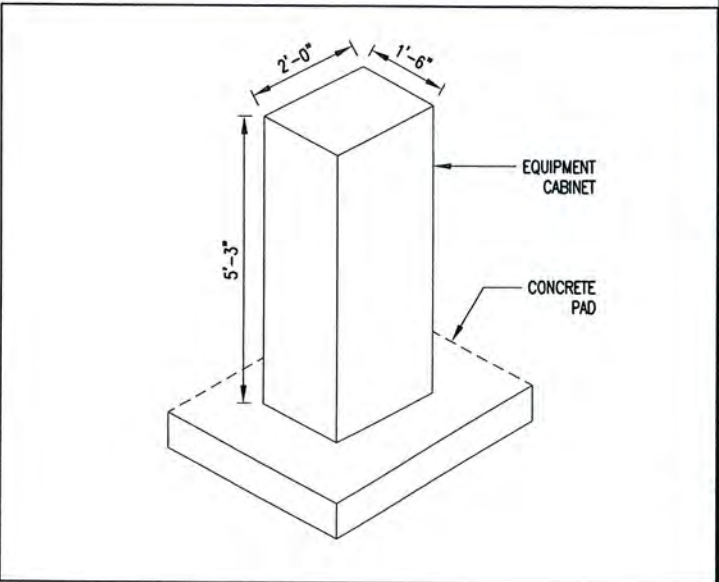
1 — REPRESENTS DETAIL #
C7 — REPRESENTS SHEET #

NOTE 1 — REPRESENTS NOTE
SHT E7 — REPRESENTS SHEET #

1 PLAN VIEW ENLARGEMENT
SCALE: NTS

LANDSCAPE NOTES:

1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I, 1963, AND PART 11, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA.
2. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
3. ALL PLANT BEDS TO RECEIVE 10" OF 50/50 MIX. 50% SAND, 50% MUCK.
4. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO PROVIDE A SMOOTH UNIFORM GRADE PRIOR TO INSTALLING SOD.
5. ALL MULCH TO BE 'FLORAMULCH' MELALEUCA MULCH.
6. ALL TREES TO BE STAKED IN THE FIELD WITH APPROVED NURSERY STANDARD METHODS.
7. TREES/PALMS SHALL BE INSTALLED A MIN. OF 3' FROM UNDERGROUND UTILITIES.



- INSTALL TWO TREES FOR SCREENING PURPOSES
CONOCARPUS ERECTUS 'SERICEUS' (SILVER BUTTWOOD) 8' O.A.
- NEW CCI 40' WOOD POLE
- EXISTING TRAFFIC SIGN
- NEW EQUIPMENT CABINET MOUNTED ON 42"X 42"X8" CONCRETE PAD
- INSTALL HEDGE ROW TO SCREEN PROPOSED EQUIPMENT
CHRYSOBALANUS ICACO (COCOPLUM) 7 GAL, 30" O.A. PLANTED 2' O.C., TYP.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-432-4770
48 HOURS BEFORE YOU DIG

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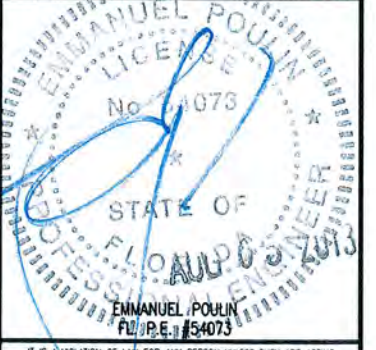
NOTE 1 ← REPRESENTS NOTE
SHT E7 ← REPRESENTS SHEET#

3 LANDSCAPE MITIGATION PLAN
SCALE: NTS



300 CROWN OAK CENTRE DRIVE
LONGWOOD, FL 32750
TEL: 407.260.0231
FAX: 407.260.0749
FL COA#: 26983

DRAWN BY:	EW	CHECKED BY:	JD
REV	DATE	DESCRIPTION	
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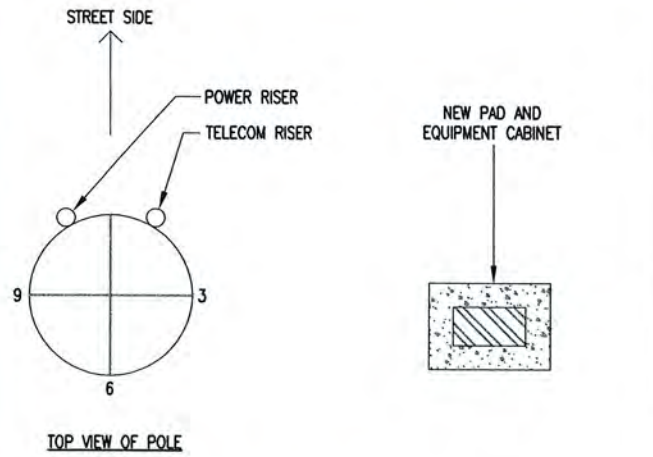
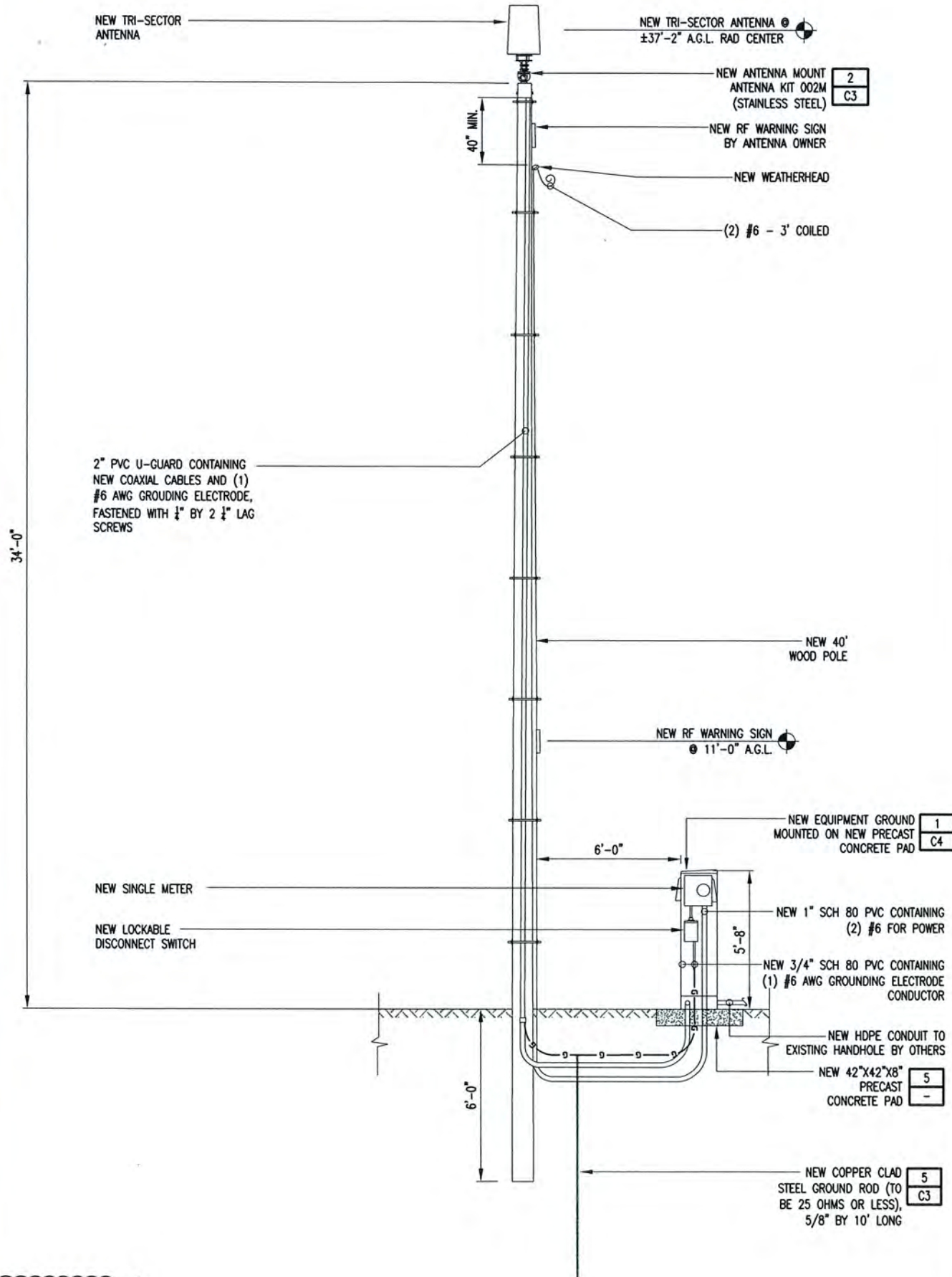


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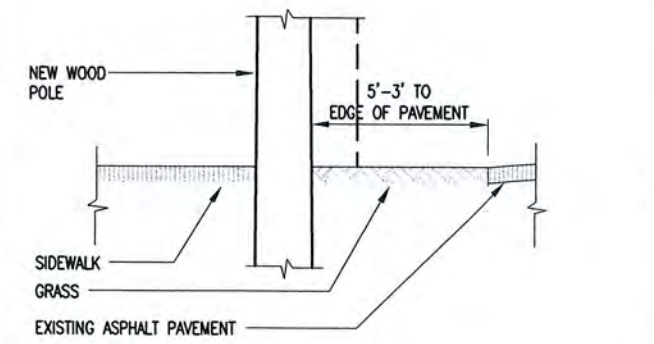
SITE#: SFL61_2
ADDRESS: 539 NW 17TH AVENUE
FORT LAUDERDALE, FL 33311

SHEET TITLE:
LANDSCAPE MITIGATION PLAN

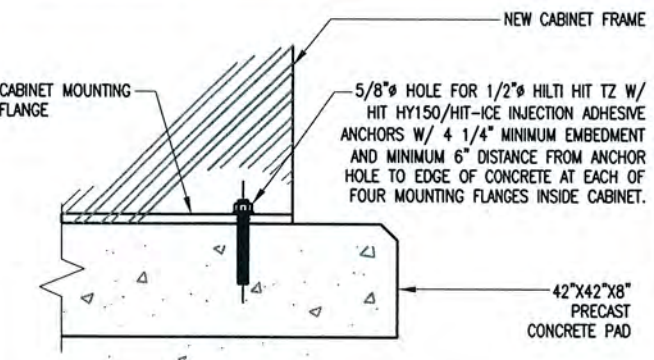
SHEET NUMBER:
C1.2



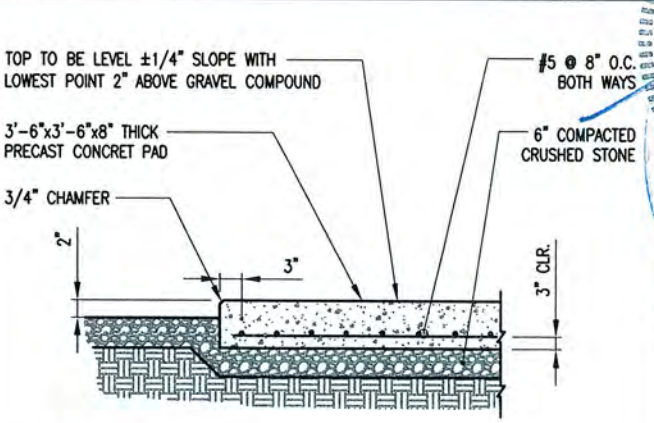
2 QUADRANT LOCATION OF PROPOSED EQUIPMENT
SCALE: NTS



3 CURB ELEVATION
SCALE: NTS



4 EQUIPMENT CABINET ATTACHMENT DETAIL
SCALE: NTS



5 EQUIPMENT PAD DETAIL
SCALE: NTS

SYMBOL LEGEND

—E—	POWER CONDUIT	—x—	FENCE
—T—	TELCO CONDUIT	—(S)—	SILT FENCE
—OHE—	OVERHEAD CONDUCTORS		
—G—	GROUNING		

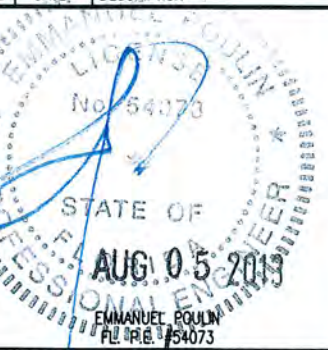
[1]	← REPRESENTS DETAIL #	[NOTE 1]	← REPRESENTS NOTE
[C7]	← REPRESENTS SHEET #	[SHT E7]	← REPRESENTS SHEET #



300 CROWN OAK CENTRE DRIVE
LONGWOOD, FL 32750
TEL: 407.260.0231
FAX: 407.260.0749
FL COA#: 26983

DRAWN BY: EW CHECKED BY: JD

REV	DATE	DESCRIPTION
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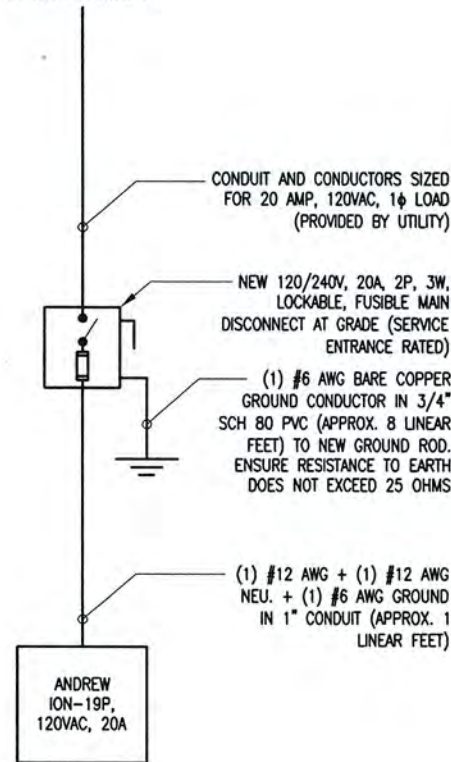
SITE#: SFL61_2
ADDRESS: 539 NW 17TH AVENUE
FORT LAUDERDALE, FL 33311

SHEET TITLE:
ELEVATION

SHEET NUMBER:
C2

1 ELEVATION
SCALE: NTS

NEW ELECT. SERVICE,
20 AMP, 120VAC, 1 ϕ



CONDUIT AND CONDUCTORS SIZED FOR 20 AMP, 120VAC, 1 ϕ LOAD (PROVIDED BY UTILITY)

NEW 120/240V, 20A, 2P, 3W, LOCKABLE, FUSIBLE MAIN DISCONNECT AT GRADE (SERVICE ENTRANCE RATED)

(1) #6 AWG BARE COPPER GROUND CONDUCTOR IN 3/4" SCH 80 PVC (APPROX. 8 LINEAR FEET) TO NEW GROUND ROD. ENSURE RESISTANCE TO EARTH DOES NOT EXCEED 25 OHMS

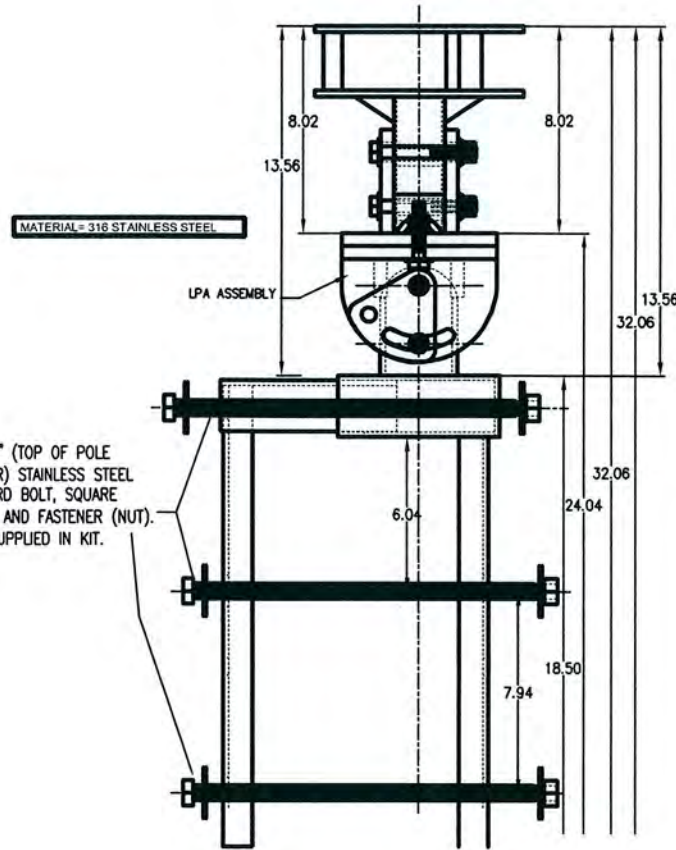
(1) #12 AWG + (1) #12 AWG NEU. + (1) #6 AWG GROUND IN 1" CONDUIT (APPROX. 1 LINEAR FEET)

ANDREW ION-19P, 120VAC, 20A

1 RISER DIAGRAM

SCALE: NTS

- SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100kA.
- PER FLORIDA BUILDING CODE 2010: FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD OF 20A.
- PER FLORIDA BUILDING CODE 2010: BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD. HOWEVER, THIS DESIGN CONTAINS NO BRANCH CIRCUITS.
- ALL CONDUCTORS ARE TO BE COPPER WIRE WITH INSULATION TYPE XHHW.
- ALL ABOVE GRADE CONDUIT IS TO BE UV RESISTANT SCHEDULE 80 PVC. ALL BELOW GRADE CONDUIT IS TO BE SCHEDULE 40 PVC.



(3) 5/8" (TOP OF POLE DIAMETER) STAINLESS STEEL HARDWARE BOLT, SQUARE WASHER AND FASTENER (NUT). "NOT" SUPPLIED IN KIT.

2 ANTENNA MOUNTING KIT (002M)

SCALE: NTS

**KATHREIN
SCALA DIVISION**

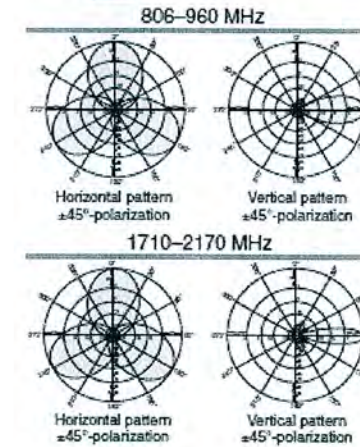
Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS.

- Wide band operation.
- Exceptional intermodulation characteristics.
- High strength fiberglass radome.
- Internal duplexers allow the +45° polarization (upper and lower bands) to be combined on one connector and the -45° polarization (upper and lower bands) to be combined on a second connector for each antenna.

General specifications:

Frequency range	806-960 MHz 1710-2170 MHz
VSWR	<1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IMS <-150 dBc
Polarization	+45° upper and lower band -45° upper and lower band
Connector	6 x 7-16 DIN female
Isolation Intrasystem	>30 dB
Isolation Intersystem	>40 dB (806-960 // 1710-2170 MHz)
Radome color	Brown, gray or dark gray (custom colors available at additional cost)
Weight	50 lb (22.7 kg)
Height	24 inches (609 mm)
Radome diameter	16 inches (407 mm)
Equivalent flat plate area	1.6 ft² (0.148 m²)
Wind survival rating*	100 mph (160 kph)
Shipping dimensions	32 x 20 x 19 inches (813 x 508 x 483 mm)
Shipping weight	52 lb (23.6 kg)
Mounting	Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.

See reverse for order information.

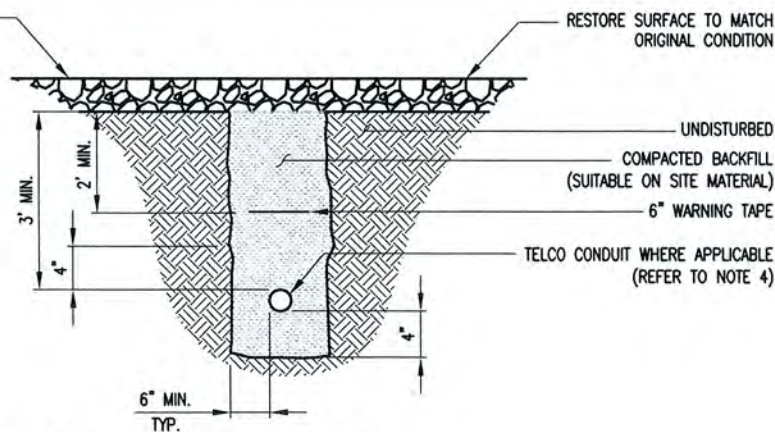


Specifications:	806-866 MHz	824-894 MHz	890-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.1 dBi	11.4 dBi	11.8 dBi	12.5 dBi	13.3 dBi	13.6 dBi
Front-to-back ratio (180° ± 30°)	>23 dB (co-polar) >20 dB (total power)	>23 dB (co-polar) >20 dB (total power)	>25 dB (co-polar) >22 dB (total power)	>25 dB (co-polar) >22 dB (total power)	>25 dB (co-polar) >22 dB (total power)	>25 dB (co-polar) >22 dB (total power)
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)	250 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)
+45° and -45° polarization horizontal beamwidth	67° (half-power)	66° (half-power)	64° (half-power)	66° (half-power)	60° (half-power)	60° (half-power)
+45° and -45° polarization vertical beamwidth	34° (half-power)	33° (half-power)	30° (half-power)	20° (half-power)	18° (half-power)	17.5° (half-power)
Cross polar ratio						
Main direction	0°	25 dB (typical)	25 dB (typical)	25 dB (typical)	16 dB (typical)	18 dB (typical)
Sector	±60°	>10 dB	>10 dB	>10 dB	>10 dB	>10 dB

3 ANTENNA SPECIFICATIONS

SCALE: NTS

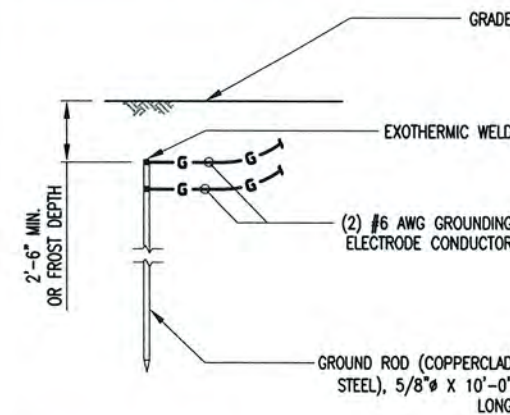
FINISHED GRADE, STONE, ASPHALT, CONCRETE PAVING OR SOD. MATCH SLOPE AND THICKNESS OF EXISTING SURFACE



4 NEW UNDERGROUND CONDUIT(S) TRENCHING DETAIL (IF APPLICABLE, REFER TO SITE PLAN)

SCALE: NTS

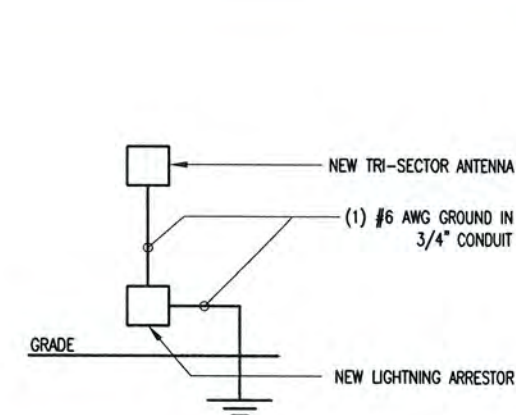
- PROVIDE SCHEDULE 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
- PROVIDE SCHEDULE 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (i.e. SERVICE POLE, BTS EQUIPMENT, ETC.).
- INSTALL UTILITY PULLBOXES PER NEC.
- SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.
- CONDUIT/TUBING CONTAINING FIBER OPTIC CABLING TO BE FILLED WITH GEL TO PREVENT WATER PENETRATION, COMMONLY REFERRED TO AS "ICKY PICK."



5 GROUND ROD DETAIL

SCALE: NTS

- GROUND ROD TO BE DRIVEN 10' VERTICALLY.



6 ANTENNA GROUNDING SCHEMATIC

SCALE: NTS



DRAWN BY: EW CHECKED BY: JD

1 05/03/13 REVISED PER COMMENTS

0 10/30/12 ISSUED FOR PERMIT

REV DATE DESCRIPTION



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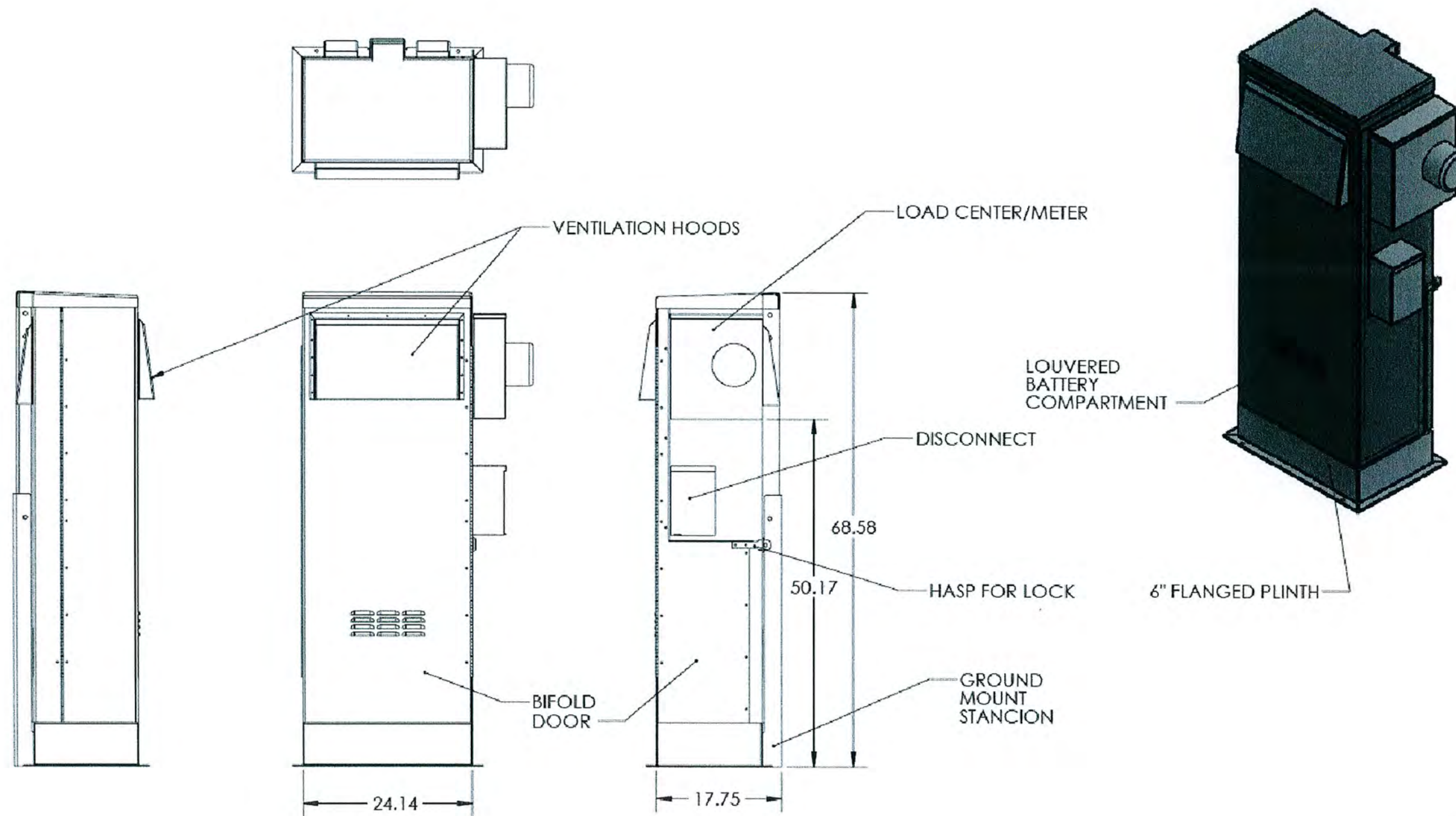
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DETAILS

SHEET NUMBER:

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11 - ELECTRICAL

11.1 GENERAL

- 1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION TOOLS, ETC. FOR THE INSTALLATION OF COMPLETE AND PROPERLY OPERATING SYSTEMS.
2. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES OF ALL AUTHORITIES HAVING JURISDICTION AND WITH ALL ASSOCIATED UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS.
3. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED.
4. GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC. FOR A PERIOD OF ONE YEAR.

11.2 INSPECTIONS

- 1. GENERAL: DURING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.
2. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.
3. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.

11.3 HANGERS AND SUPPORTS

- 1. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION.
2. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC., AS INDICATED OR REQUIRED.

11.4 ENCLOSURES / WIREWAYS

- 1. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL.
2. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER AND RATED NEMA 1 (OR BETTER) OUTDOORS.
3. JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SQUARE BY 1-1/4 INCHES DEEP.

11.5 HOLES, SLEEVES AND OPENINGS

- 1. GENERAL: PROVIDE ALL HOLES, SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DAMAGED SURFACES TO MATCH SURROUNDING SURFACES.
2. CONDUIT PENETRATIONS: SIZE CORE-DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC.
3. PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WATER INTRUSION.

- 7. USING SKILLED MECHANICS OF THE TRADES INVOLVED. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.

11.6 CONDUCTORS

- 1. USE 80% CONDUCTIVITY COPPER WITH TYPE 90-10 INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8 AWG.
2. NO BX, MC OR RDMX CABLE SHALL BE PERMITTED.
3. EACH END OF EVERY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE.

11.7 ELECTRICAL SERVICE

- 1. GENERAL: COMPLY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
2. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.
3. CONTRACTOR TO VERIFY UTILITY CO. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10,000 AC).

11.8 TELEPHONE SERVICE

- 1. GENERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND PAYING ALL ASSOCIATED FEES.
3. METALLIC CONDUIT OR TUBING FOR TI LINES SHALL BE BONDED TO GROUND ON BOTH ENDS.

11.9 CHECKOUT, TESTING AND ADJUSTING

- 1. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.
2. POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH AND LOAD CENTER.

11.10 RACEWAY SYSTEMS / CONDUIT

- 1. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT. UNDERGROUND PVC CONDUIT SHALL TRANSITION TO RIGID GALVANIZED STEEL CONDUIT OR SCHEDULE 80 PVC CONDUIT BEFORE RISING ABOVE GRADE OR CONCRETE SLAB.
2. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (GRS) CONDUIT OR SCHEDULE 80 PVC CONDUIT.
3. ELECTRICAL METALLIC TUBING (EMT) OR RIGID, NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

11.11 BELOW GRADE

- 1. THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE VICINITY OF OTHER UNDERGROUND SERVICES AND EQUIPMENT SUPPORTS.
2. PRIOR TO EXCAVATION, A UTILITY MARK OUT SHALL BE DONE TO LOCATE EXISTING UNDERGROUND UTILITIES.
3. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PRIOR TO ANY EXCAVATION WORK BEING PERFORMED.

11.12 EQUIPMENT

- 1. THE MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING EQUIPMENT A.I.C.
2. ALL EQUIPMENT SHALL BE BRANDED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING FROM UTILITY CO.
3. THE CONTRACTOR SHALL PROVIDE AN ITEMIZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HRS OF THE NOTICE TO PROCEED.

11.13 TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

- 1. TVSS DEVICES FOR AC POWER SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR HAVE UNSUITABLE TVSS DEVICES.
2. THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE OF THE MANUAL TRANSFER SWITCH.
3. IN MARKETS WITH LIGHTNING ZONE > OR = TO 4, IF TVSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE SHELTER OR AS CLOSE AS POSSIBLE TO THE BITS CABINET FOR OUTDOOR SITES, TO PROTECT AGAINST LIGHTNING AND TRANSIENT VOLTAGES.

11 - RE AND TOWER APPURTENANCE INSTALLATION RELATED NOTES

13.1 COAXIAL CABLE REQUIREMENTS

- 1. GENERAL: PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR RECEIVING, INSTALLING, TESTING, AND ADJUSTING ANTENNA CABLES FROM THE ANTENNA TO THE CONNECTIONS AT THE BASE TRANSMISSION SYSTEM (BTS).
2. CABLE HANGERS SHALL BE INSTALLED AT A MAXIMUM 4' SPACING.
3. INSTALLATION
A. COAXIAL CABLE LENGTHS SHALL BE FIELD MEASURED. INSTALLER SHALL NOTIFY CARRIER PRIOR TO PURCHASE OF CABLE OF THE OVERALL LENGTH REQUIRED.

Table with columns: CABLE, IN AIR OR CABLE TRAY, IN CONDUIT. Rows: 1/2", 5", 7/8", 10", 1-5/8", 18", 2", 20", 2 1/2", 28".

- 4. CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENDS. CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD.
5. GROUNDING
A. ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, B) MIDDLE OF THE CABLE RUN IF OVER 200', C) PRIOR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1' OF ENTRY).

- 13.2 ANTENNA REQUIREMENTS:
1. AZIMUTHS ARE ORIENTED CLOCKWISE FROM TRUE NORTH.
2. CONTRACTOR SHALL VERIFY ANTENNA TYPE, AZIMUTHS, AND DOWNTILTS WITH THE CARRIER PRIOR TO CONSTRUCTION.

- 13.3 TOWER CLIMBING SAFETY GUIDELINES:
1. TOWER CLIMBERS MUST HAVE COMPLETED A NATE CERTIFIED CLIMBING TRAINING COURSE PER CONTRACT SPECIFICATIONS PRIOR TO WORK ON THIS STRUCTURE.

- 20 - SITE SPECIFIC NOTES
20.1 GENERAL:
1. CONSTRUCTION INCLUDES:
- INSTALLATION OF COMMUNICATION EQUIPMENT
- ANTENNAS AND MOUNT INSTALLATION ON STRUCTURE.

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LEGEND AND ABBREVIATIONS

Table with columns: Abbreviation, Description. Rows: AHJ, AUTHORITY HAVING JURISDICTION; AWG, AMERICAN WIRE GAUGE; BOW, BARE COPPER WIRE; BTS, BASE TRANSMISSION SYSTEM; CGSB, COAX ISOLATED GROUND BAR, EXTERNAL DIAMETER; EMT, ELECTRICAL METALLIC TUBING; GEN, GENERATOR; GPS, GLOBAL POSITIONING SYSTEM; MGB, MASTER ISOLATED GROUND BAR; NEC, NATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION; PPC, POWER PROTECTION CABINET; PVC, POLY VINYL CHLORIDE; RGS, RIGID GALVANIZED STEEL; TYP, TYPICAL.

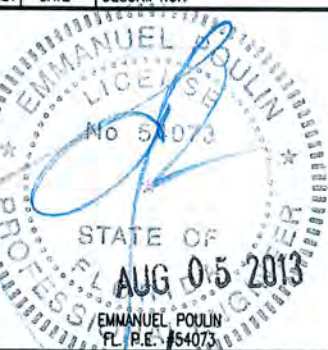


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Exhibit 6