



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

PERMIT NO. CC13-01
District 4

1

Applicant Name and Job Number Crown Castle NG East LLC SFL 60_1

Job Address and Location 1001 SE 20th St.

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

Anticipated start and end dates of work 6/2/14 - 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.

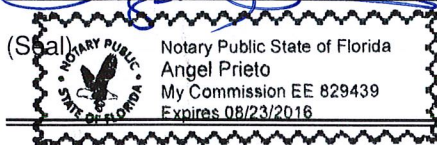
Armando Hernandez
Printed Name of Authorized Crown Castle Agent

Armando Hernandez
Signature of Authorized Crown Castle Agent

Sworn to and subscribed before me this 16th day of May, 2008 2014

Notary Public,
State of Florida

My Commission Expires 8-23-16



(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



CROWN CASTLE SFL60_1

CLIENT :

CLIENT SITE ID#:

ADDRESS:

1001 SE 20TH STREET
FORT LAUDERDALE, FL 33316

SITE TYPE:

NEW METAL POLE

PROPERTY INFORMATION

SITE COORDINATES:

26.096715°
-80.132413°

JURISDICTION:

CITY OF FORT LAUDERDALE

PROPERTY OWNER:
ADDRESS:

CROWN CASTLE
8555 NW 64TH STREET
MIAMI, FL 33166

PROJECT TEAM

PROJECT MANAGEMENT FIRM:

ADDRESS:

CROWN CASTLE
8555 NW 64TH STREET
MIAMI, FL 33166

ENGINEERING FIRM:
ADDRESS:

CONTACT:

PHONE:

FLORIDA COA#:

AW SOLUTIONS, INC.
300 CROWN OAK CENTRE DR.
LONGWOOD, FL 32750
SHANE HAFNER
407.260.0231 EXT. 120
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

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C1	SITE PLAN	3
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SP2	SPECIFICATIONS	3
SP3	SPECIFICATIONS	3

APPROVALS

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

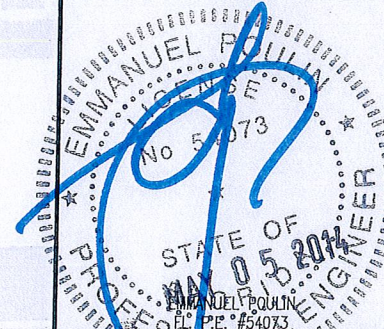


300 CROWN OAK CENTRE DRIVE
LONGWOOD, FL 32750
TEL: 407.260.0231
FAX: 407.260.0749
FL COA#: 26983

DRAWN BY: EW CHECKED BY: JD

3	03/13/14	NEW NODE LOCATION
2	09/11/13	REVISED POLE TYPE/LOCATION
1	05/09/13	REVISED PER COMMENTS
0	01/11/13	ISSUED FOR PERMIT

REV DATE DESCRIPTION



IT IS A VIOLATION OF ANY LAW OR ANY PERSON UNLESS THEY ARE ACTING UNDER THE AUTHORITY OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT. ANY PERSON WHO ALTERS THIS DOCUMENT WITHOUT THE WRITING OF AW SOLUTIONS, INC. DISCLOSES ALL LIABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE#: SFL60_1

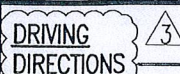
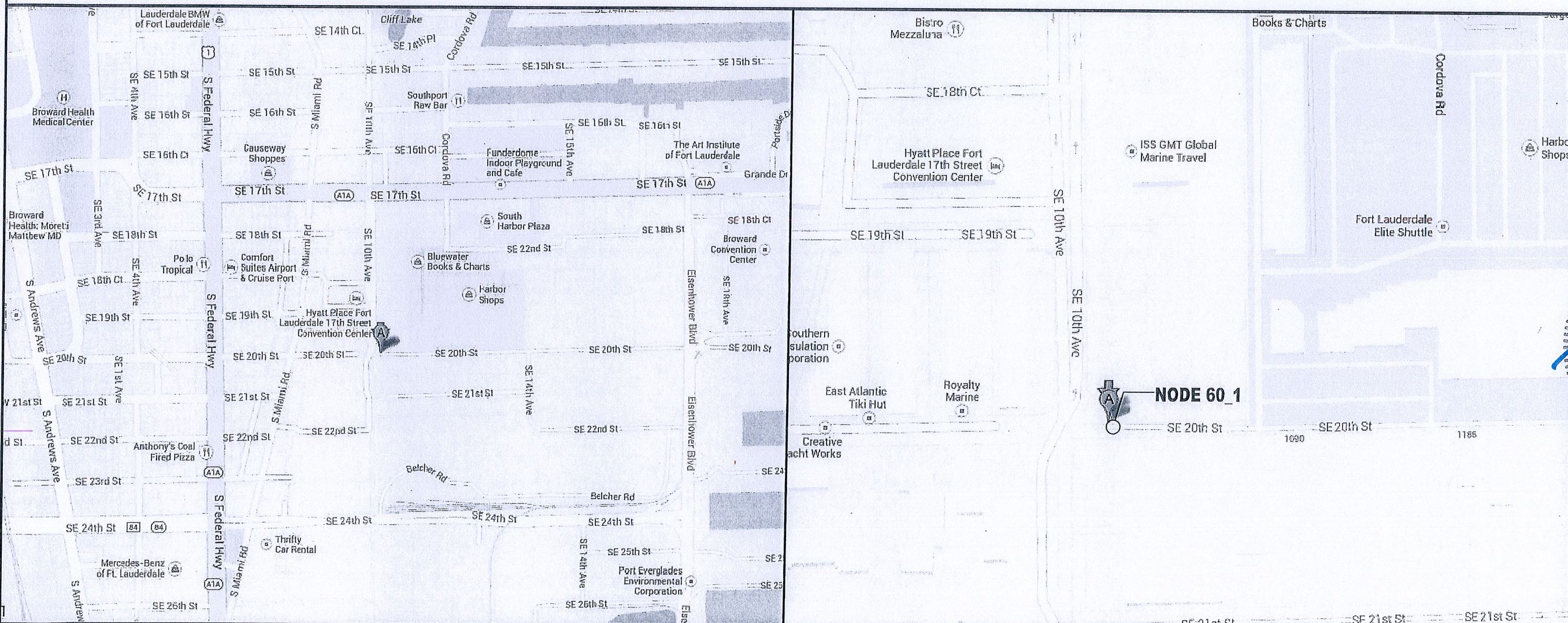
ADDRESS: 1001 SE 20TH STREET
FORT LAUDERDALE, FL 33316

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

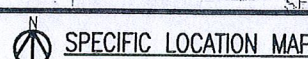
T1

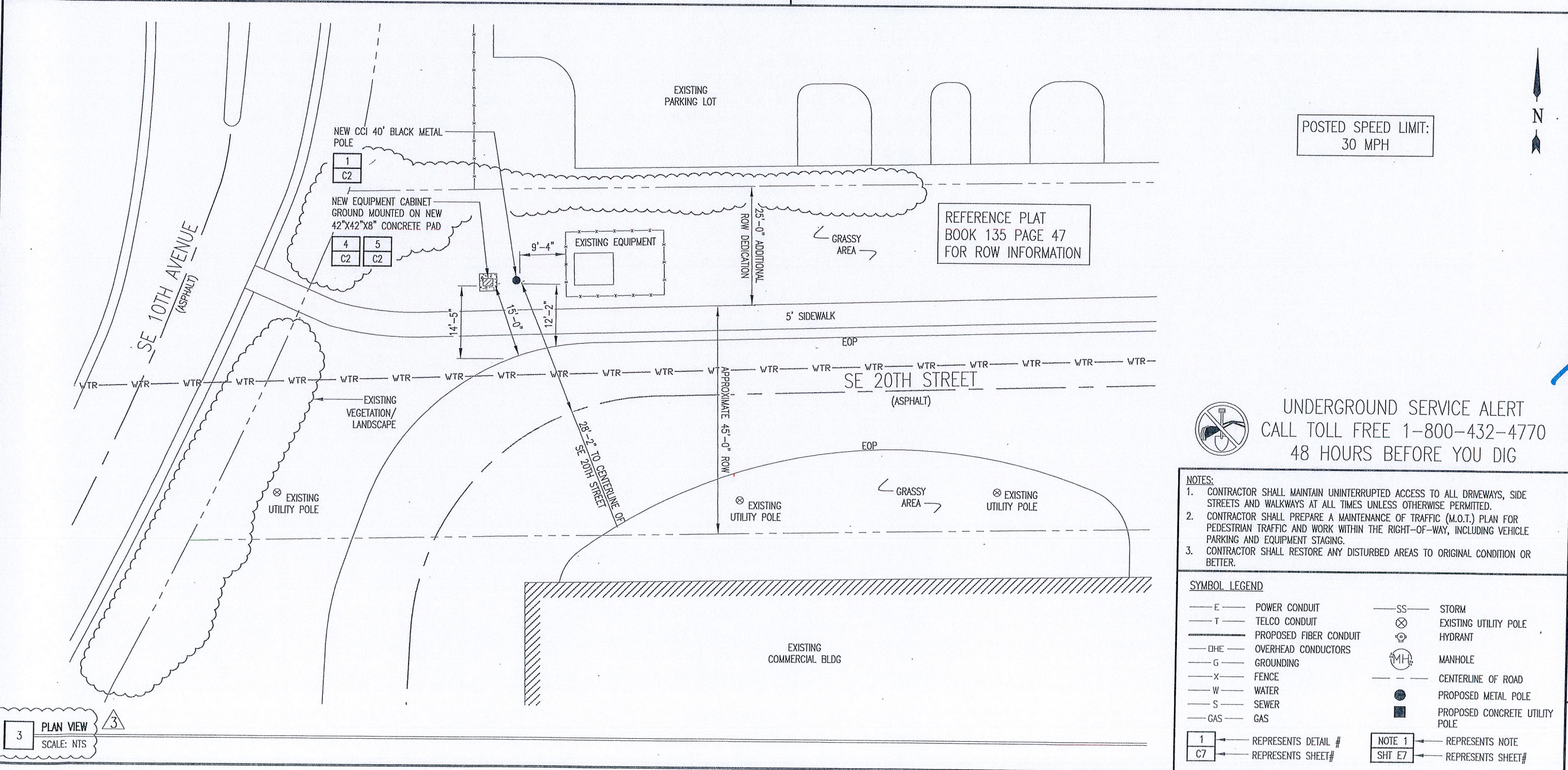
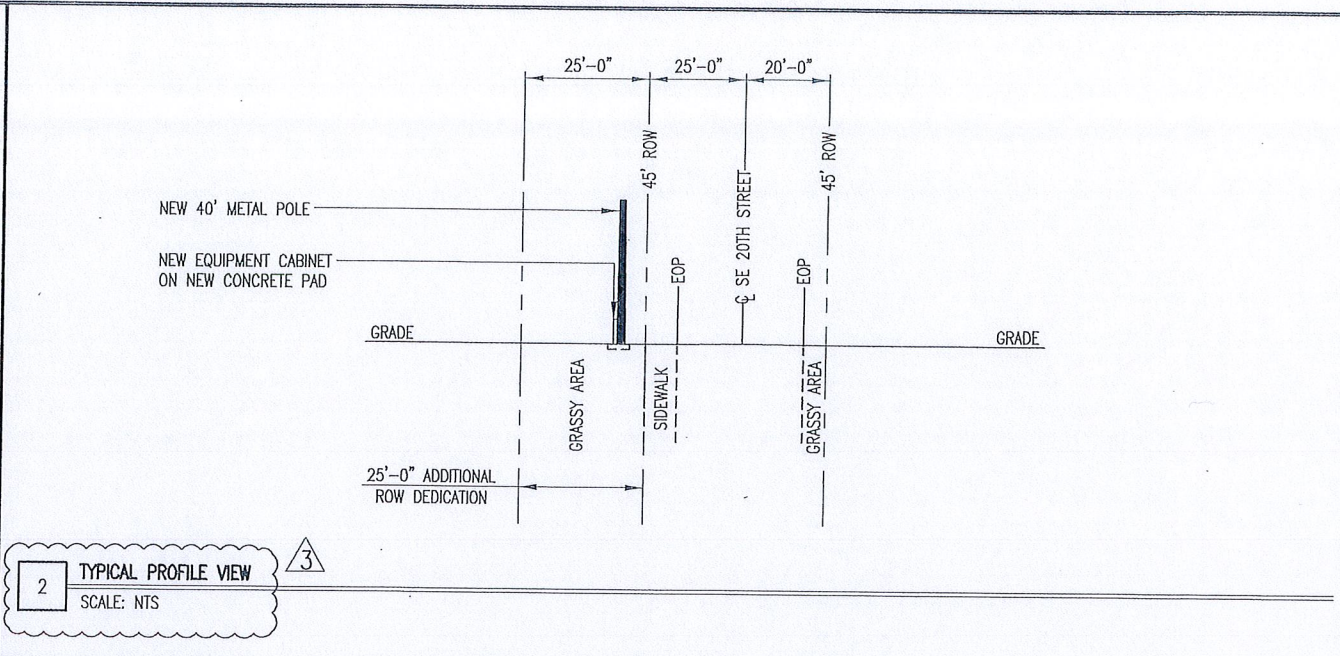
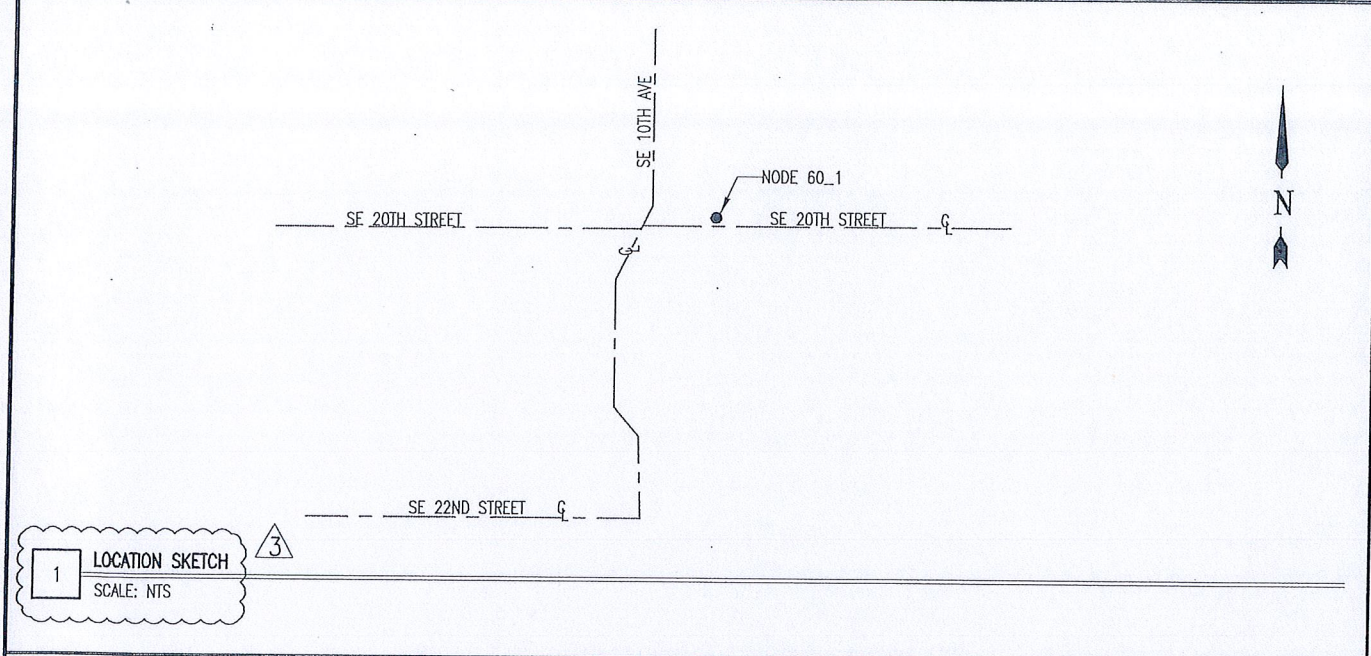


FROM CROWN CASTLE OFFICE IN MIAMI, HEAD WEST ON NORTHWEST 64TH STREET. TURN RIGHT ONTO NORTHWEST 87TH AVENUE. TURN RIGHT ONTO NORTH WEST 74TH STREET, TURN LEFT TO MERGE ONTO FLORIDA-826 NORTH, TAKE THE EXIT TOWARD FL-826 EAST/BEACHES. MERGE ONTO FL-826 EAST. TURN LEFT ONTO NW 2ND AVE (SIGNS FOR INTERSTATE 95 NORTH) TAKE THE RAMP ONTO I-95 NORTH. TAKE EXIT 23 FOR FL-818/GRIFFIN ROAD. TURN RIGHT ONTO FL-818 E/GRIFFIN ROAD. SLIGHT LEFT ONTO U.S. 1 N/S FEDERAL HIGHWAY. TURN RIGHT ONTO SE 17TH STREET. TURN RIGHT ONTO EISENHOWER BOULEVARD. TAKE THE 2ND RIGHT ONTO SE 20TH STREET. (RESTRICTED USAGE ROAD) DESTINATION WILL BE ON THE RIGHT.



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

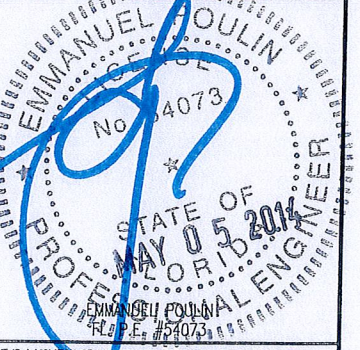




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SITE#: SFL60_1
ADDRESS: 1001 SE 20TH STREET
FORT LAUDERDALE, FL 33316

SHEET TITLE: **SITE PLAN**
SHEET NUMBER: **C1**

POSTED SPEED LIMIT:
30 MPH



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.

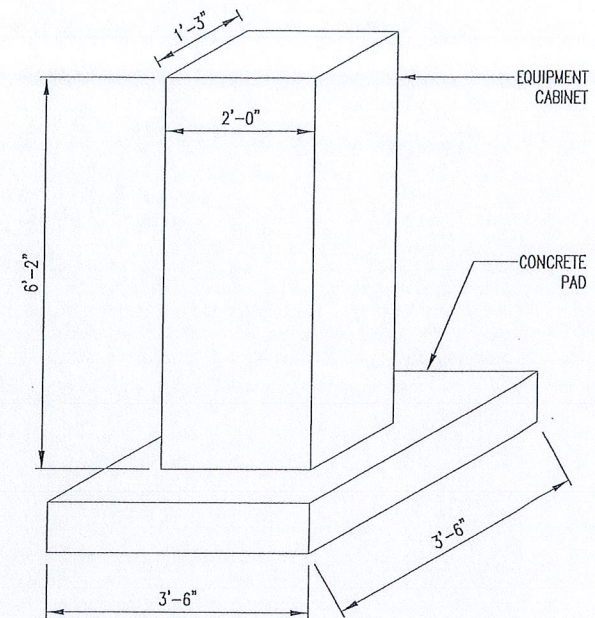
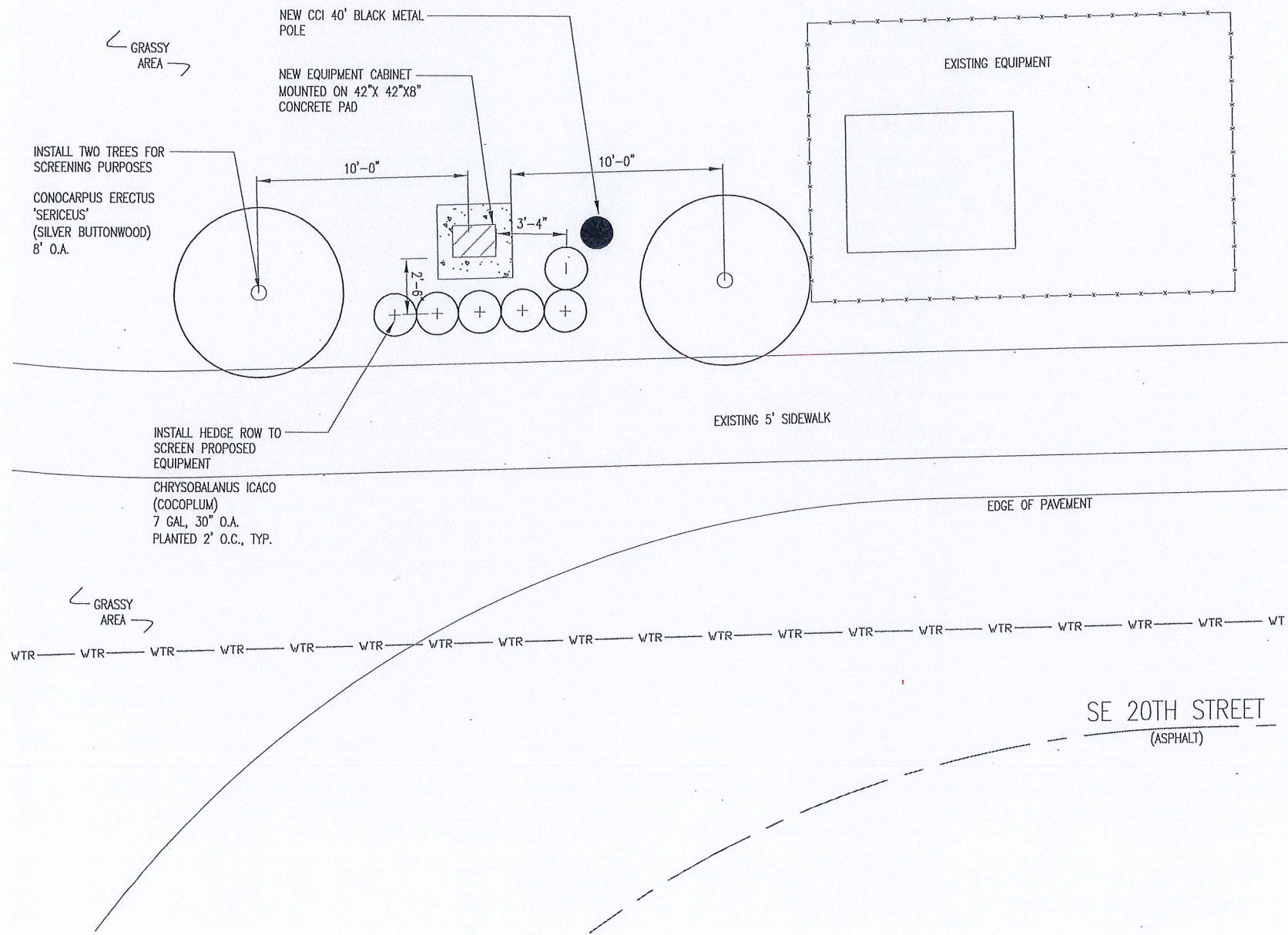
SYMBOL LEGEND

— E —	POWER CONDUIT	— SS —	STORM
— T —	TELCO CONDUIT	⊗	EXISTING UTILITY POLE
— DHE —	PROPOSED FIBER CONDUIT	⊕	HYDRANT
— G —	OVERHEAD CONDUCTORS	⊙	MANHOLE
— X —	GROUNDING	— CL —	CENTERLINE OF ROAD
— W —	FENCE	●	PROPOSED METAL POLE
— S —	WATER	■	PROPOSED CONCRETE UTILITY POLE
— GAS —	SEWER		

1 ← REPRESENTS DETAIL #
C7 ← REPRESENTS SHEET#

NOTE 1 ← REPRESENTS NOTE
SHT E7 ← REPRESENTS SHEET#

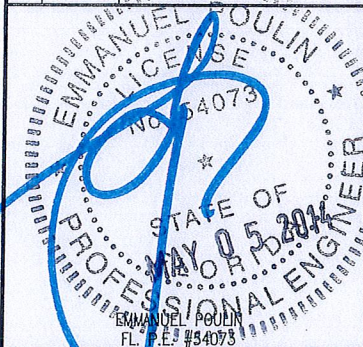
- LANDSCAPE NOTES:
1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I, 1963, AND PART 11, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA.
 2. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE 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.



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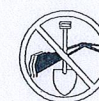
ADDRESS: 1001 SE 20TH STREET
FORT LAUDERDALE, FL 33316

SHEET TITLE:

LANDSCAPE
MITIGATION PLAN

SHEET NUMBER:

C1.1



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48 HOURS BEFORE YOU DIG

NOTES:

1. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
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SYMBOL LEGEND

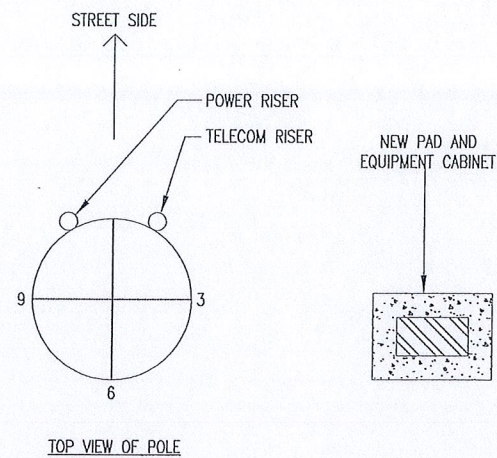
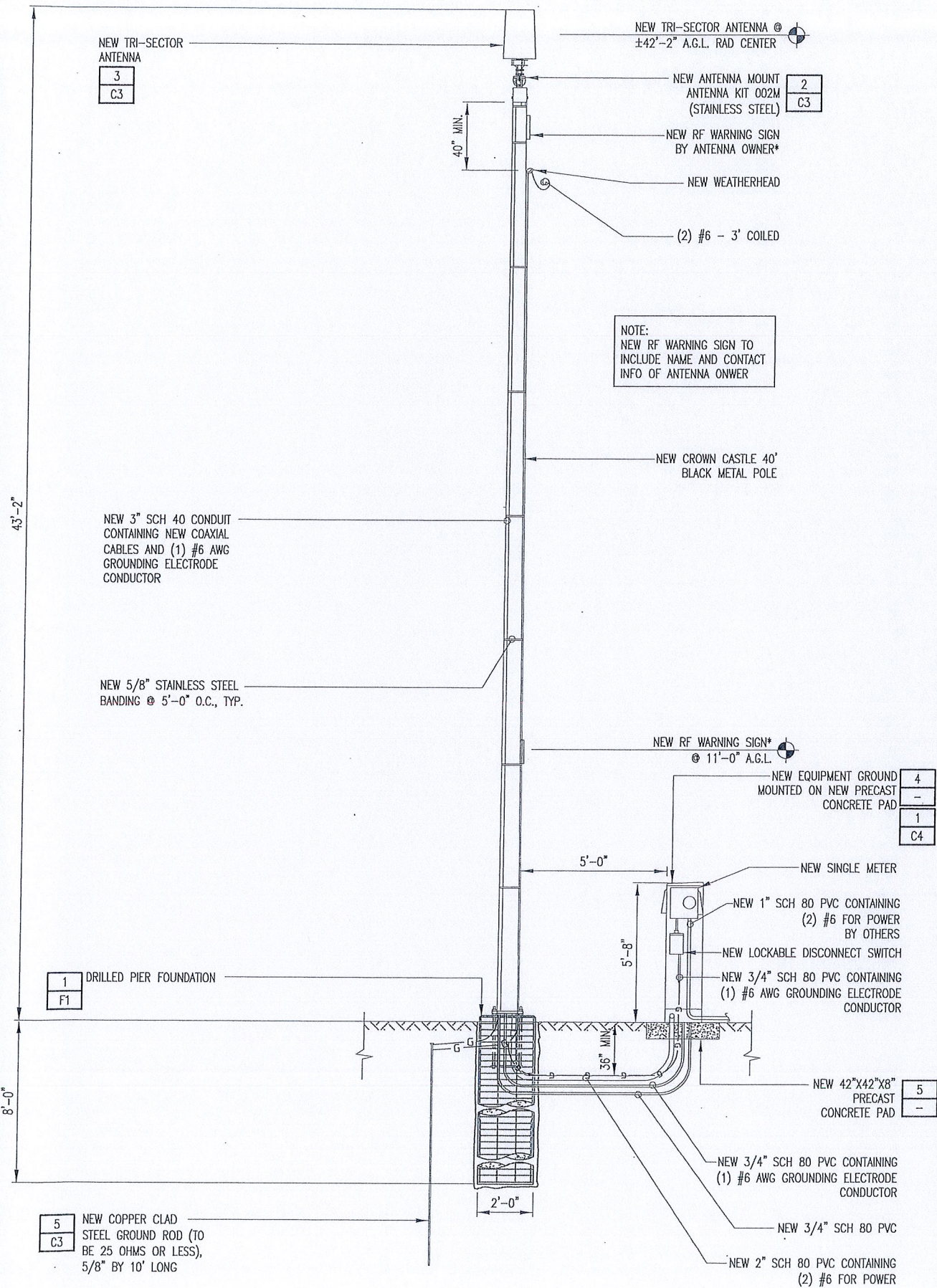
— E —	POWER CONDUIT	— SS —	STORM
— T —	TELCO CONDUIT	⊗	EXISTING UTILITY POLE
— DHE —	PROPOSED FIBER CONDUIT	⊕	HYDRANT
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— GAS —	SEWER		
	GAS		

1 — REPRESENTS DETAIL #
C7 — REPRESENTS SHEET #

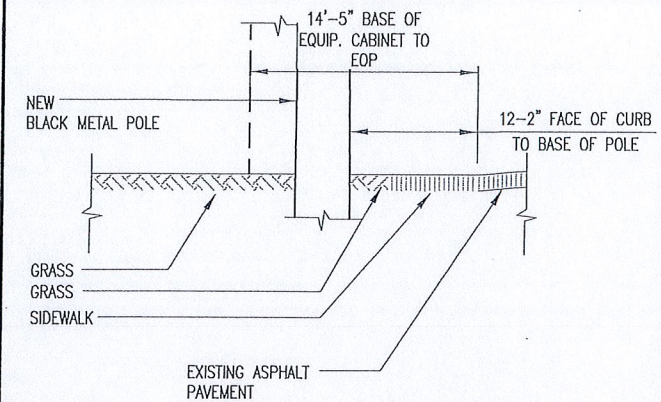
NOTE 1 — REPRESENTS NOTE
SHT E7 — REPRESENTS SHEET #

LANDSCAPE MITIGATION PLAN

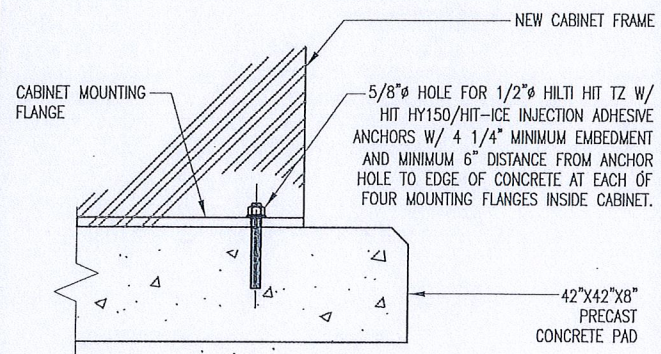
SCALE: NTS



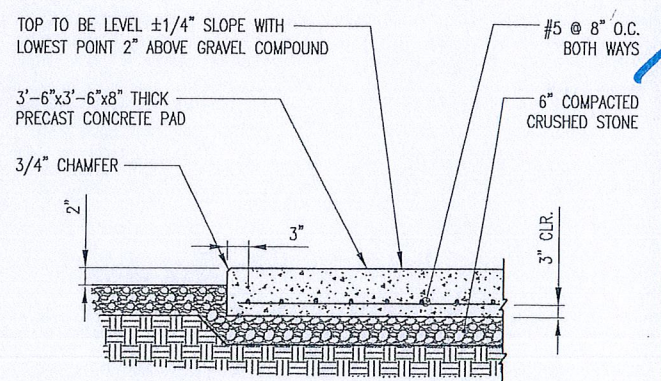
2 QUADRANT LOCATION OF PROPOSED EQUIPMENT
SCALE: NTS



3 CURB ELEVATION
SCALE: NTS



4 EQUIPMENT CABINET ATTACHMENT DETAIL
SCALE: NTS



5 EQUIPMENT PAD DETAIL
SCALE: NTS

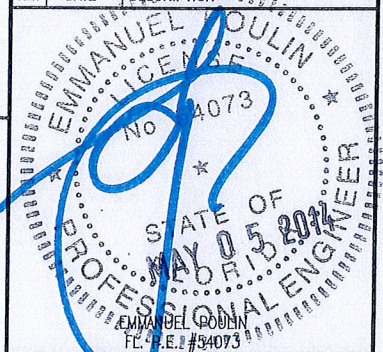
SYMBOL LEGEND			
—E—	POWER CONDUIT	—X—	FENCE
—T—	TELCO CONDUIT	—CS—	SILT FENCE
—OHE—	OVERHEAD CONDUCTORS		
—G—	GROUNDING		

1	REPRESENTS DETAIL #	NOTE 1	REPRESENTS NOTE
C7	REPRESENTS SHEET #	SHT E7	REPRESENTS SHEET #



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ADDRESS: 1001 SE 20TH STREET
FORT LAUDERDALE, FL 33316

SHEET TITLE:
ELEVATION

SHEET NUMBER:
C2

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

CONDUIT AND CONDUCTORS SIZED
FOR 20 AMP, 120VAC, 1φ 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

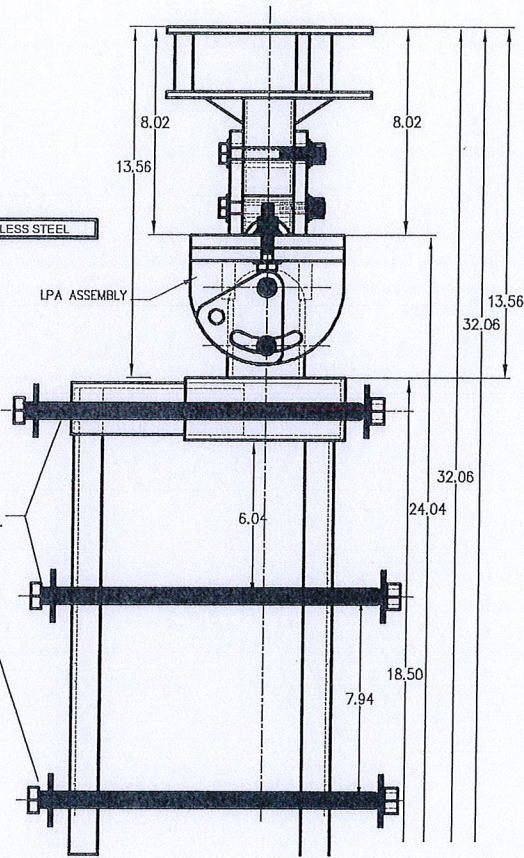
1. SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100KA.
2. PER FLORIDA BUILDING CODE 2010: FEEDER CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD OF 20A.
3. PER FLORIDA BUILDING CODE 2010: BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.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

2 ANTENNA MOUNTING KIT (002M)

SCALE: NTS

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

MATERIAL= 316 STAINLESS STEEL



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)	IM3: <-150 dBc
Polarization	+45° upper and lower band -45° upper and lower band
Connector	6 x 7-16 DIN female
Isolation	intrasytem >30 dB 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.

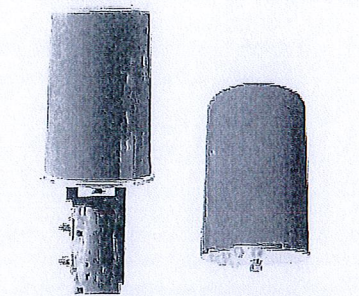
See reverse for order information.

Specifications:

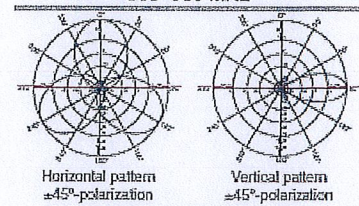
	806-960 MHz	824-894 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.1 dBi	11.4 dBi	11.8 dBi	12.5 dBi	13.3 dBi	13.6 dBi
Front-to-back ratio (180° ± 30°)	>23 dB (co-polar) >20 dB (total power)	>23 dB (co-polar) >20 dB (total power)	>25 dB (co-polar) >22 dB (total power)	>25 dB (co-polar) >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)	68° (half-power)	64° (half-power)	66° (half-power)	60° (half-power)	60° (half-power)
+45° and -45° polarization vertical beamwidth	34° (half-power)	35° (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)	16 dB (typical)	18 dB (typical)	20 dB (typical)
Sector	±80°	>10 dB	>10 dB	>10 dB	>10 dB	>10 dB

3 ANTENNA SPECIFICATIONS

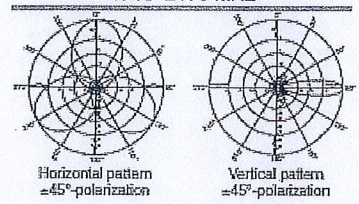
SCALE: NTS



806-960 MHz



1710-2170 MHz



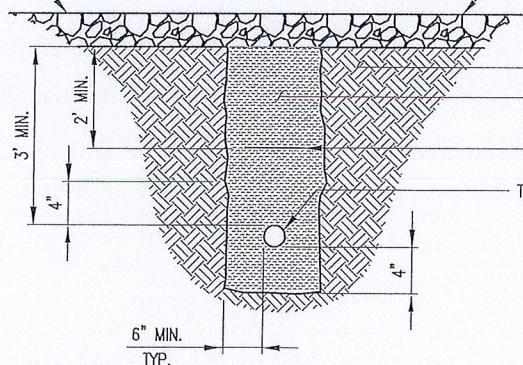
FINISHED GRADE, STONE, ASPHALT,
CONCRETE PAVING OR SOD. MATCH SLOPE
AND THICKNESS OF EXISTING SURFACE

RESTORE SURFACE TO MATCH
ORIGINAL CONDITION

UNDISTURBED
COMPACTED BACKFILL
(SUITABLE ON SITE MATERIAL)

6" WARNING TAPE

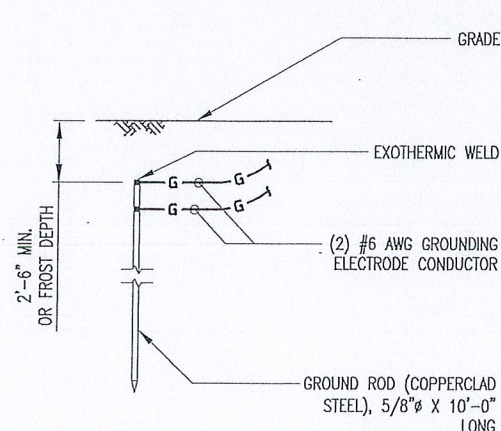
TELCO CONDUIT WHERE APPLICABLE
(REFER TO NOTE 4)



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

SCALE: NTS

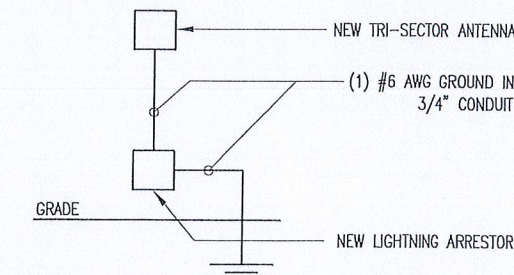
1. PROVIDE SCHEDULE 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
2. PROVIDE SCHEDULE 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (i.e. SERVICE POLE, BTS EQUIPMENT, ETC.).
3. INSTALL UTILITY PULLBOXES PER NEC.
4. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.
5. CONDUIT/TUBING 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

1. GROUND ROD TO BE DRIVEN 10' VERTICALLY.



6 ANTENNA GROUNDING SCHEMATIC

SCALE: NTS

CROWN
CASTLE
INTERNATIONAL

AW Solutions
incorporated

300 CROWN OAK CENTRE DRIVE
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2 09/11/13 REVISED POLE TYPE/LOCATION
1 05/09/13 REVISED PER COMMENTS
0 01/11/13 ISSUED FOR PERMIT

REV DATE DESCRIPTION

EMMANUEL POULIN
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
P.E. #54073

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SITE#: SFL60_1

ADDRESS: 1001 SE 20TH STREET
FORT LAUDERDALE, FL 33316

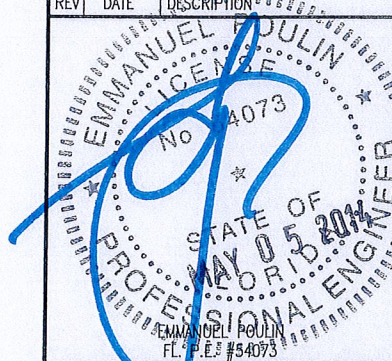
SHEET TITLE:

DETAILS

SHEET NUMBER:

C3

3	03/13/14	NEW NODE LOCATION
2	09/11/13	REVISED POLE TYPE/LOCATION
1	05/09/13	REVISED PER COMMENTS
0	01/11/13	ISSUED FOR PERMIT
REV	DATE	DESCRIPTION



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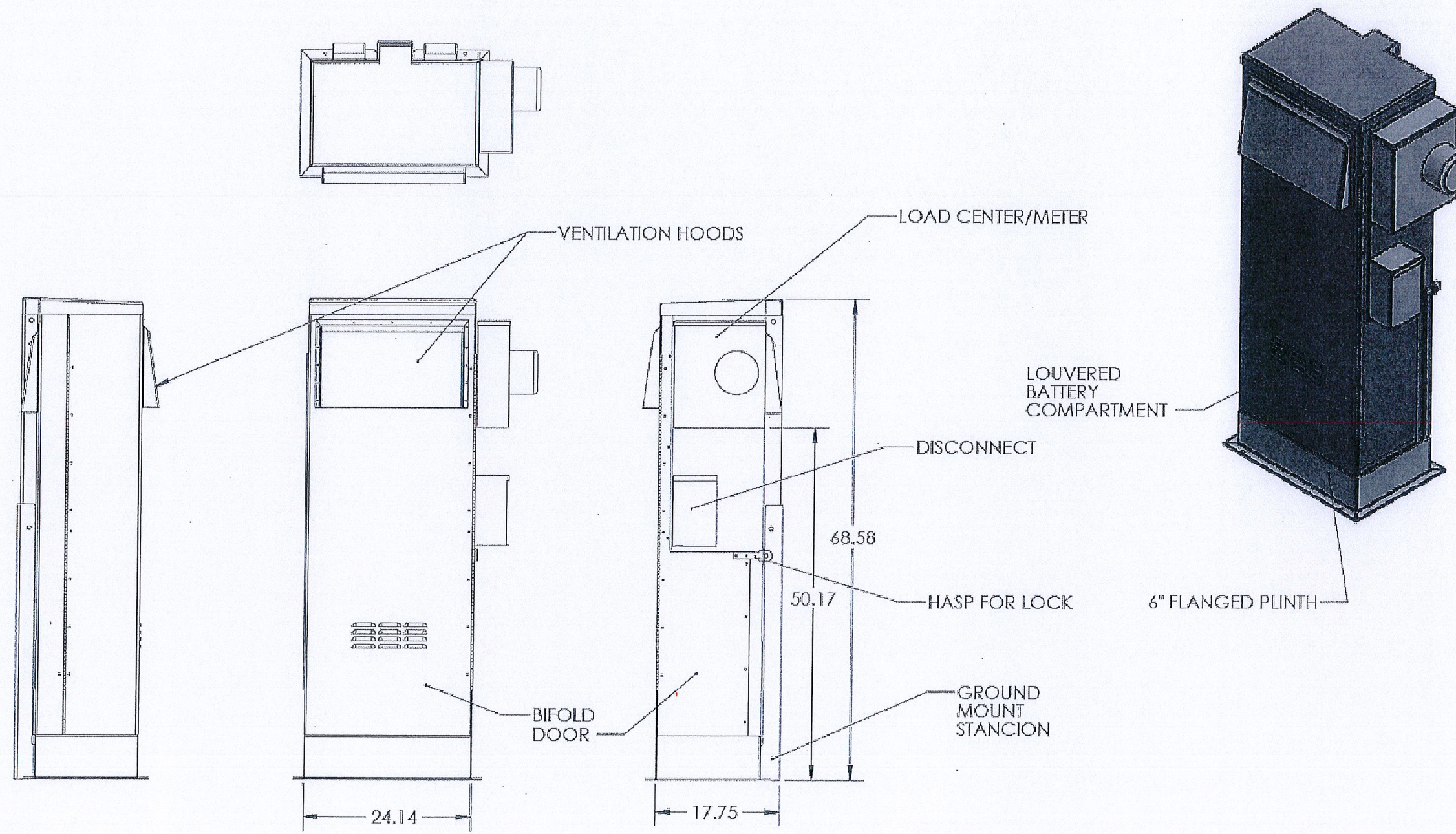
ADDRESS: 1001 SE 20TH STREET
FORT LAUDERDALE, FL 33316

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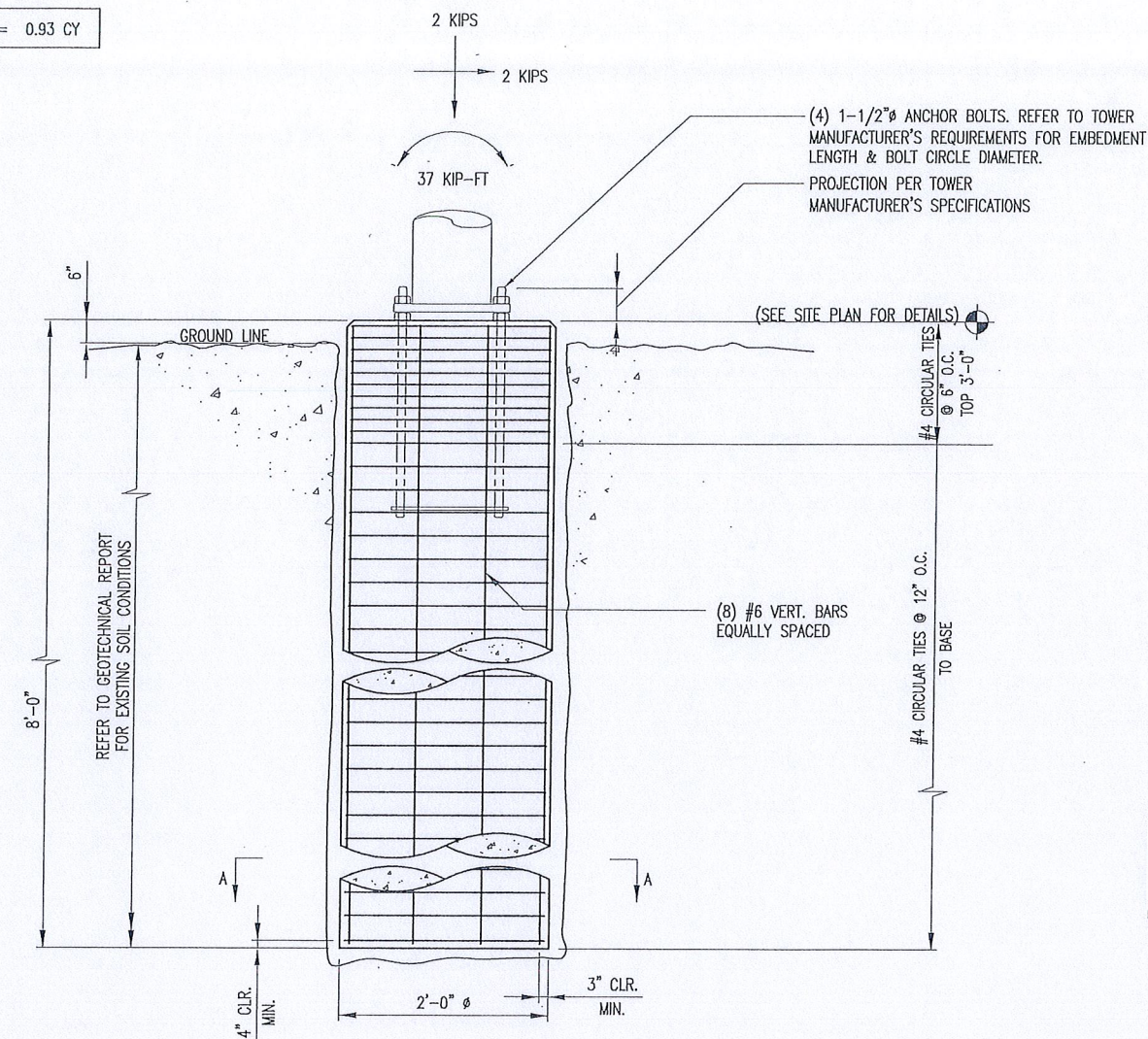
DETAILS

SHEET NUMBER:

C4



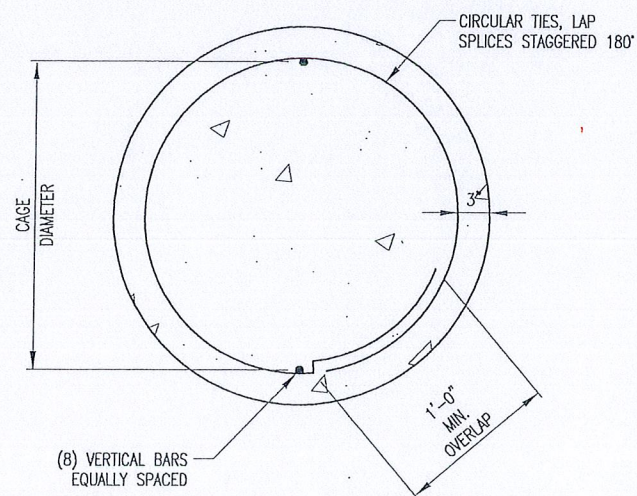
CONCRETE VOLUME = 0.93 CY



1 DRILLED PIER FOUNDATION

SCALE: NTS

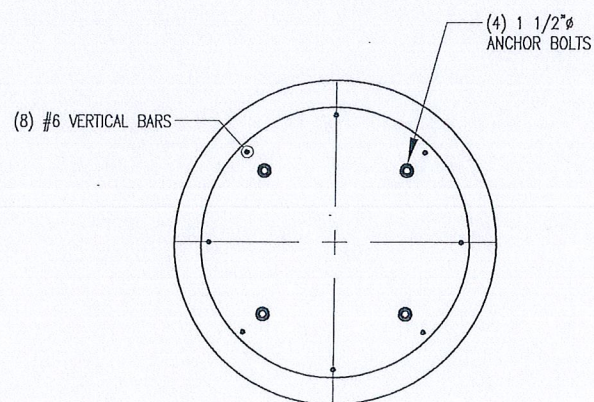
1. TOWER BASE FACTORED REACTIONS ARE GIVEN BY TOWER MANUFACTURER FOR TOWER SIZE, TYPE, AND SPECIFIC JOB NUMBER LISTED.
2. FOR ANCHOR BOLTS AND TEMPLATES, SEE TOWER MANUFACTURER. DRAWINGS PROVIDED BY THE TOWER MANUFACTURER REPRESENTATIVE.
3. DRILLED PIER INSTALLATION SHALL BE OBSERVED AND APPROVED IN WRITING BY GEOTECHNICAL ENGINEER PROVIDING GEOTECHNICAL REPORT.
4. REFER TO DESIGN DOCUMENT ISSUED BY CEM-TEC (#5382) ON 10/25/2012.



A-A SECTION

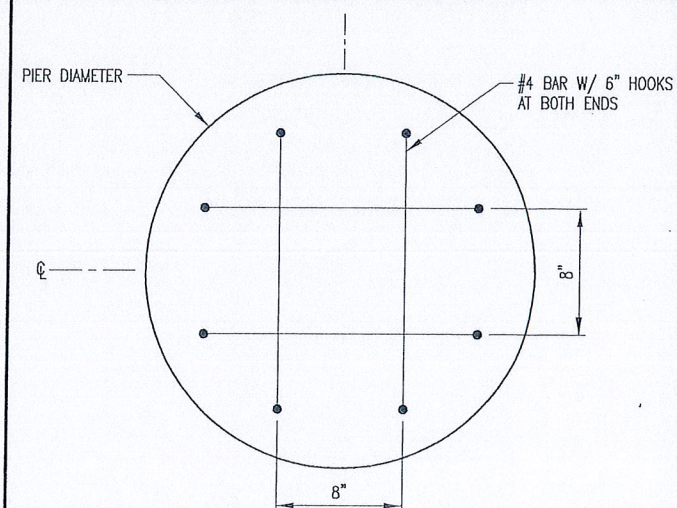
SCALE: NTS

1. CAGE DIAMETER FROM CENTERLINE OF VERTICAL BARS.



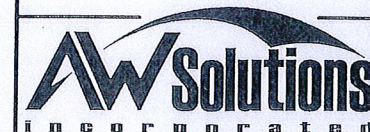
2 FOUNDATION PLAN VIEW

SCALE: NTS



3 TOP REINFORCEMENT DETAIL

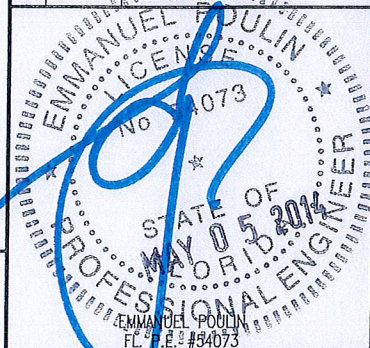
SCALE: NTS



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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SHEET TITLE:

**TOWER FOUNDATION
DETAILS**

SHEET NUMBER:

F1