

MEMORANDUM

Agenda Item No. 8(E)(1)

TO: Honorable Chairman Jose "Pepe" Diaz
and Members, Board of County Commissioners

DATE: November 2, 2021

FROM: Geri Bonzon-Keenan
County Attorney

SUBJECT: Resolution authorizing the County Mayor to execute a Communications Site Use Agreement between the State of Florida, Department of Transportation and Miami-Dade County, through the Miami-Dade Fire Rescue Department, for a five-year term with two five-year options to renew; and authorizing the County Mayor to execute amendments to the agreement and exercise the renewal and termination provisions contained therein, provided that such amendments do not alter the purpose of the agreement

Resolution No. R-1024-21

The accompanying resolution was prepared by the Fire Rescue Department and placed on the agenda at the request of Prime Sponsor Chairman Jose "Pepe" Diaz.



Geri Bonzon-Keenan
County Attorney

GBK/uw

Memorandum



Date: November 2, 2021

To: Honorable Chairman Jose "Pepe" Diaz
and Members, Board of County Commissioners

From: Daniella Levine Cava *Daniella Levine Cava*
Mayor

Subject: Resolution approving the Communications Site Use Agreement between the State of Florida, Department of Transportation and Miami-Dade County through the Miami-Dade Fire Rescue Department

Recommendation

It is recommended that the Miami-Dade Board of County Commissioners (Board) approve the attached resolution authorizing the County Mayor or County Mayor's designee to execute the Communications Site Use Agreement (Agreement) between the State of Florida, Department of Transportation (State), and Miami-Dade County, through the Miami-Dade Fire Rescue Department (MDFR). It is further recommended that this Board authorize the County Mayor or County Mayor's designee to execute amendments to the Agreement, and to exercise the renewal and termination provisions contained therein, provided that such amendments do not alter the purpose of the Agreement. The no-cost Agreement shall be for a 5-year term with two 5-year options to renew.

Scope

This item has a Countywide impact.

Delegation of Authority

The County Mayor or County Mayor's designee is authorized to execute the Agreement between the State and MDFR. The County Mayor or County Mayor's designee is also authorized to execute amendments to said Agreement, and to exercise the renewal and termination provisions contained therein, provided that such amendments do not alter the purpose of the Agreement.

Fiscal Impact/Funding Source

This item does not have a long-term fiscal impact on the County. However, pursuant to the terms of the Agreement, there will be one nonrecurring capital expense of \$110,000.00. A portion of which, paid for a tower analysis report that was completed in 2018 (Attached to the Agreement). Said report was necessary to determine the structural capacity of the tower to accommodate the weight of additional MDFR equipment. The County will also incur costs for installation of a 1,000-gallon liquid propane generator fuel tank, installation of a new 3-ton split Heating Ventilation Air Conditioning system and modification of an existing fence to accommodate the larger fuel tank. The \$110,000.00 is already funded by MDFR's current Ultra High Frequency radio system upgrade project. All other expenses for the tower will remain the responsibility of the State.

Track Record/Monitor

These Agreements will be monitored by Assistant Chief Greg Rubin, or other supervisory person.

Background

Miami-Dade firefighters depend on the radio infrastructure to communicate during a broad variety of complex and life-threatening situations. Careful planning and coordination is required to ensure optimal communications are maintained in all areas of the County, including the western areas where development continues to expand and radio coverage can be marginal. To improve coverage MDFR always tries to locate new towers and radio sites at fire stations, but radio improvements are often needed in the fringe areas where there are no fire stations. Because of the ongoing growth and expansion to the west, MDFR needs to establish a radio transmitter and receiver site in the Okeechobee area. Thanks to our partnership with the State, we were able to identify the Okeechobee tower location after conducting a search for appropriate existing towers in the region. The Okeechobee site is located at the East Quadrant of Turnpike and West Okeechobee Road, (25 54 N, 80 22.57 W) (Tower ASR: 1049425). This Communication Site would greatly improve MDFR's infrastructure for radio communications and enhance firefighter safety when operating under the worst of conditions.



JD Patterson
Chief Public Safety Officer



MEMORANDUM

(Revised)

TO: Honorable Chairman Jose "Pepe" Diaz
and Members, Board of County Commissioners

DATE: November 2, 2021

FROM: 
Gen Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 8(E)(1)

Please note any items checked.

- _____ "3-Day Rule" for committees applicable if raised
- _____ 6 weeks required between first reading and public hearing
- _____ 4 weeks notification to municipal officials required prior to public hearing
- _____ Decreases revenues or increases expenditures without balancing budget
- _____ Budget required
- _____ Statement of fiscal impact required
- _____ Statement of social equity required
- _____ Ordinance creating a new board requires detailed County Mayor's report for public hearing
- _____ No committee review
- _____ Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) ____, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) ____ to approve
- _____ Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(E)(1)
11-2-21

RESOLUTION NO. R-1024-21

RESOLUTION AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXECUTE A COMMUNICATIONS SITE USE AGREEMENT BETWEEN THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION AND MIAMI-DADE COUNTY, THROUGH THE MIAMI-DADE FIRE RESCUE DEPARTMENT, FOR A FIVE-YEAR TERM WITH TWO FIVE-YEAR OPTIONS TO RENEW; AND AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXECUTE AMENDMENTS TO THE AGREEMENT AND EXERCISE THE RENEWAL AND TERMINATION PROVISIONS CONTAINED THEREIN, PROVIDED THAT SUCH AMENDMENTS DO NOT ALTER THE PURPOSE OF THE AGREEMENT

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board:

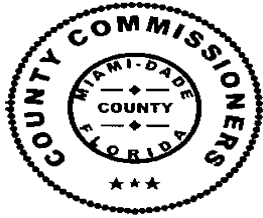
Section 1. Authorizes the County Mayor or County Mayor's designee to execute a Communications Site Use Agreement ("Agreement"), in substantially the form attached hereto as Attachment A and made a part hereof, for the Okeechobee Interchange Communications Site, with the State of Florida, Department of Transportation and Miami-Dade County, through the Miami-Dade Fire Rescue Department ("MDFR"). The purpose of the Agreement is to establish the terms and conditions under which the MDFR shall be authorized to use a portion of said Communications Site to optimize its communications system and increase radio activity. The no-cost Agreement shall be in effect for a 5-year term with two options to renew, each for an additional 5-year term.

Section 2. Authorizes the County Mayor or County Mayor’s designee to execute amendments to the Agreement and exercise the renewal and termination provisions contained therein, provided that such amendments do not alter the purpose of the Agreement.

The foregoing resolution was offered by Commissioner **Rebeca Sosa** ,
 who moved its adoption. The motion was seconded by Commissioner **Danielle Cohen Higgins**
 and upon being put to a vote, the vote was as follows:

Jose “Pepe” Diaz, Chairman	aye		
Oliver G. Gilbert, III, Vice-Chairman	aye		
Sen. René García	aye	Keon Hardemon	aye
Sally A. Heyman	aye	Danielle Cohen Higgins	aye
Eileen Higgins	aye	Joe A. Martinez	aye
Kionne L. McGhee	aye	Jean Monestime	absent
Raquel A. Regalado	aye	Rebeca Sosa	aye
Sen. Javier D. Souto	aye		

The Chairperson thereupon declared this resolution duly passed and adopted this 2nd day of November, 2021. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.



MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

Melissa Adames

By: _____
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

A handwritten signature in dark ink, appearing to be "SAG", written over a horizontal line.

Shanika A. Graves

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
COMMUNICATIONS SITE USE AGREEMENT

750-040-01
 ITS PROGRAM
 OGC – 04/21
 Page 1 of 7

OWNER	State of Florida Department of Transportation 605 Suwannee Street Tallahassee, Florida 32399-0450
USER AGENCY	Miami-Dade County through its Miami Dade Fire Rescue Department 111 NW 1st Street Miami, FL 33128
SITE DESCRIPTION	Site Name: Okeechobee Interchange Address: East Quadrant of Turnpike & W. Okeechobee Rd (MP 35.5) Latitude: 25-54-0.22 N Longitude: 80-22-57.4 W Tower ASR: 1049425
SITE USE	Check all that apply: ☒ Owner Tower ☒ Owner Shelter ☐ New User Agency Shelter ☐ Other: _____

io **WHEREAS**, User Agency desires to use a portion of said Communications Site for its communications system for the purpose of enhancing User Agency activities through radio and/or communications; and

WHEREAS, Owner desires to allow User Agency to use a portion of said Communications Site within the limitations and subject to the conditions set forth in this Agreement.

NOW, THEREFORE, in consideration of the execution of this **Communications Site Use Agreement**, hereinafter referred to as "Agreement", it is mutually agreed between the parties hereto as follows:

1. Use of Premises

Owner hereby gives permission, revocable and terminable as hereinafter provided, to the User Agency to enter the Communications Site premises for the sole purpose of using it for the improvements to its communications system equipment and operations (hereinafter referred to as the "Improvements"). Said Improvements shall be located so as to not interfere with any of the Owner's operations.

2. Fees

Unless otherwise specified herein, there will be no fee for use of this Communications Site unless an additional fee or cost directly attributable to the User Agency is imposed on the Owner as a result of this Agreement. In the event that such a fee or cost is levied, the User Agency agrees to and will be required to be solely responsible for all such fees and costs.

3. Terms

The initial term of this Agreement shall be for five (5) years. The User Agency may request to renew this Agreement every five (5) years. Renewal shall be in the form of a letter from the User Agency to the Owner requesting the renewal of this Agreement and a response from the Owner to the User Agency approving the renewal request. Renewal of this Agreement is the responsibility of the User Agency and not the responsibility of the Owner. In the event that the User Agency fails to obtain a renewal concurrence from the Owner, the User Agency will be allowed sixty (60) days to remove all antenna(s), mounting hardware, transmission line(s), and equipment from Communications Site premises. Communications Site shall be made clean and undamaged from the removal process.

4. Access

The Owner shall provide the User Agency access to the Communications Site at all times for the uses authorized herein. The User Agency shall submit a list of authorized personnel to the Owner that requires access to the Communications Site. The User Agency authorized personnel shall complete a Criminal Justice Information Services (CJIS) Background Check and complete CJIS Security Training.

5. Maintenance and Improvements

The costs of any maintenance and operation of Improvements shall be at the sole expense of the User Agency.

The User Agency shall get prior written approval from the Owner and amend the Agreement if any Improvements are to be made to the User Agency equipment. This includes but is not limited to antenna changes, equipment changes, and any new equipment. The User Agency shall submit a new Structural Analysis and Intermodulation analysis to the Owner in accordance with Paragraphs 12 and 13 if a new antenna is added or replaced on the Owner's tower.

1,000 gallon-LP Tank: The User Agency shall furnish and install a new 1,000-gallon LP tank replacing the existing 500-gallon LP tank. The User Agency shall transfer the existing fuel from the 500-gallon tank to the 1,000-gallon tank and fill the 1,000-gallon tank to its maximum capacity. After successful installation and fueling of the new 1000-gallon LP tank, the Owner will take ownership of the tank and will be responsible for maintenance and fueling.

Fencing: As a part of the new 1,000-gallon LP tank installation, the User Agency will be decommissioning a portion of the existing perimeter fence and installing new fence to encompass the new 1,000-gallon LP tank. The new portion of the fence will be owned and maintained by the Owner.

3-ton split HVAC system: The User Agency will furnish and install a new 3-ton split HVAC system to serve the communications room for the User Agency. After successful installation of the 3-ton split HVAC system, the Owner will take ownership of the new 3-ton split HVAC system and be responsible for maintenance and repairs of the system.

All other equipment on the tower and inside the communications facility installed by the User Agency shall be owned, operated, and maintained by the User Agency.

6. Indemnification

To the extent permitted by law and as limited by Section 768.28, Florida Statutes, whereby neither party to this agreement shall be held liable to pay a personal injury or property damage claim or judgment by any one person, which exceeds the sum of \$200,000, or any claim or judgment arising out of the same incident or occurrence, which exceeds the sum of \$300,000 from any and all personal injury or property damage claims, liabilities, losses or causes of action, which may arise as a result of this Agreement. Subject to and only within the limitation permitted by law, both parties shall be fully and solely responsible and liable for its own acts, and omissions, including those of its officers, employees, instructors, and all other parties to this agreement. To the extent permitted by law, both parties shall release, hold harmless, indemnify, defend, and agree not to sue each other, including their officers, employees and agents from and for any and all claims, liabilities, damages of any kind, and expenses, including legal fees and causes of actions of any nature whatsoever, foreseen or unforeseen, including but not limited to personal injury, illness, death and property damage, which arise directly or indirectly from the use of, or presence of the Communication Site and associated equipment, whether used in whole or in part by either party, including their officers, employees, and other parties that are allowed on the premises by either party. This indemnification shall survive the expiration or other termination of this Agreement.

When the Owner receives a notice of claim for damages that may have been caused by the User Agency in the performance of services required under this Agreement, the Owner will immediately forward the claim to the User Agency. The User Agency and the Owner will evaluate the claim and report their findings to each other within 14 working days and will jointly discuss options in defending the claim. After reviewing the claim, the Owner will determine whether to require the participation of the User Agency in the defense of the claim or to require that the User Agency defend the Owner in such claim as described in this section. The Owner's failure to promptly notify the User Agency of a claim shall not act as a waiver of any right herein to require the participation in or defense of the claim by the User Agency. The Owner and the User Agency will each pay its own expenses for the evaluation, settlement negotiations and trial, if any. However, if only one party participates in the defense of the claim at trial, that party is responsible for all expenses at trial.

7. Insurance

User Agency is solely responsible for self-insurance and shall be considered so by the Owner.

8. Interference

In the event the Owner determines that the operation of the Improvements by the User Agency caused interference to transmission or reception, or both of any other communications systems in use in the vicinity of the Communications Site, the User Agency shall take all appropriate steps necessary to mitigate said interference within thirty (30) days of receiving written notice.

9. Permits

User Agency is responsible for obtaining and paying the costs of all permits, licenses, and/or other approvals by any regulatory body having jurisdiction over the uses authorized herein.

10. Compliance

Should the User Agency fail or neglect to comply with any terms or conditions of this Agreement or to comply with any reasonable requirement of the Owner after thirty (30) days written notice and demand, this Agreement shall be subject to termination. In the event of such termination, User Agency shall immediately remove any and all of its Improvements from the Communications Site described herein and surrender all rights and privileges under this Agreement.

11. Limitations

The section headings of this Agreement are for convenience and reference only and in no way define, extend, limit, or describe the scope or intent of this Agreement or any provision hereof.

This Agreement embodies the whole agreement of the parties. There are no promises, terms, conditions, or obligations other than those contained herein, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida.

12. Structural Analysis

User Agency agrees to provide Owner with a structural analysis (if use of the Owner's tower is included in this Agreement) that indicates that the additional proposed User Agency antenna(s), mounting hardware and transmission line(s) will not exceed the tower loading standards as defined by the most current revision of the American National Standards Institute (ANSI)/Telecommunications Industries Association (TIA) 222 wind loading standard and/or the American Society of Civil Engineers (ASCE) 7 wind loading standard and/or the South Florida Building Code as required by State and/or local requirements using the most stringent and latest revision(s). The structural analysis must be provided as required, reviewed, and approved by the Department's Intelligent Transportation Systems Communications Administrator prior to technical approval of this Agreement.

13. Intermodulation Analysis

User Agency agrees to provide the Owner with an Intermodulation (Intermod) analysis of all the existing and proposed receiver and transmitter operating frequencies. This analysis must provide 9th Order calculations using all transmit frequencies and include all receive frequencies and their adjacent channel frequencies. The Department will require interference analyses for any Intermod frequency deemed to produce interference. The interference analysis must produce a signal strength component based on path loss, antenna performance characteristics and spatial separation, frequency separation, and receiver and ancillary filter isolation curves. The Intermod analysis and subsequent interference analyses must be provided as required, reviewed, and approved by the Department's Intelligent Transportation Systems Telecommunications Administrator prior to the technical approval of this Agreement.

14. Chapter 471, Florida Statutes

User Agency agrees that Structural Analysis and Intermodulation Analysis submittals required herein will be signed and sealed by a qualified Florida registered Professional Engineer (P.E.) in accordance with Chapter 471, Florida Statutes.

15. Standards Requirements

User Agency agrees to install all equipment in accordance with but not limited to Electronics Industries Association (EIA), the Institute of Electrical and Electronic Engineers (IEEE) and National Electrical Code (NEC) standards.

16. Surge and Transient Protection Requirements

User Agency agrees to provide, at User Agency's expense, any and all surge and transient protection devices, including but not limited to transmission line through-line protectors, power line primary and secondary protectors, and telephone line protectors.

17. Required Submittals

User Agency agrees to submit a complete plan of the proposed additional equipment as required by the Department's Intelligent Transportation Systems Communications Administrator. The required submittals will be based on site specific needs and transmitted to the User Agency in response to a technically complete initial request to use a specific site. Submittals may include but not be limited to structural analysis (paragraph 12), Intermodulation analysis (paragraph 13), equipment building floor space use plan, power requirements, lightning protection, microwave use plan and equipment maintenance requirements.

18. Unforeseen Problems

User Agency agrees that, if any unforeseen problems such as but not limited to structural overloading or overstress to the Communications Site tower, or interference to any Owner or preexisting User Agency equipment, or any environmental problems were to occur, the User Agency will either correct, at the expense of the User Agency, any and all problems to the Owner's satisfaction within 60 days or within an alternate time limit determined by the Owner.

19. Cost Responsibility

User Agency agrees, unless stipulated otherwise herein, to be solely responsible and that Owner shall have no responsibility for any costs including, but not limited to, equipment installation, equipment removal, and telephone circuit usage.

The Owner is responsible for all utility costs located at the Okeechobee communications facility.

20. Suspension of Operations

User Agency agrees to suspend all operations and remove all antenna(s), mounting hardware, transmission line(s), and other equipment from said Communications Site within sixty (60) days of receipt of written notice to vacate said Communications Site. If the request to vacate is determined an emergency by the Owner, the User Agency agrees to immediately cease and desist as specified in the emergency request.

21. Regulatory Requirements

User Agency agrees to comply with all federal, state, and local regulations, laws, and ordinances applicable to this Agreement. User Agency further agrees to operate, maintain, and control all User Agency equipment in accordance with and not in violation of any Federal Communications Commission (FCC), Federal Aviation Administration (FAA), or any other empowered regulating body rules or laws.

22. Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the State of Florida.

23. Compliance with Laws

The User Agency agrees to comply with Section 20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with Section 20.055(5), Florida Statutes.

In accordance with Section 287.135, Florida Statutes, by signing this Agreement the User Agency certifies that it is not: (1) listed on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, Florida Statutes, (2) engaged in a boycott of Israel, (3) or listed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473, Florida Statutes. If the Owner determines the User Agency submitted a false certification under Section 287.135(5) of the Florida Statutes, pertaining to a boycott of Israel, the Owner shall either terminate the Contract after it has given the User Agency notice and an opportunity to demonstrate the Owner's determination of false certification was in error pursuant to Section 287.135(5)(a) of the Florida Statutes, or maintain the Contract if the conditions of Section 287.135(4) of the Florida Statutes are met.

24. Public Records

The Vendor shall comply with Chapter 119, Florida Statutes. Specifically, the Vendor shall:

- (1) Keep and maintain public records required by the Department to perform the service.
- (2) Upon request from the Department's custodian of public records, provide the Department with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Agreement term and following completion of the Agreement if the Vendor does not transfer the records to the Department.
- (4) Upon completion of the Agreement, transfer, at no cost, to the Department, all public records in possession of the Vendor or keep and maintain public records required by the Department to perform the service. If the Vendor transfers all public records to the Department upon completion of the Agreement, the Vendor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Vendor keeps and maintains public records upon completion of the Agreement, the Vendor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Department, upon request from the Department's custodian of public records, in a format that is compatible with the information technology systems of the Department.

Failure by the Vendor to comply with Chapter 119, Florida Statutes, shall be grounds for immediate unilateral cancellation of this Agreement by the Department.

If the User Agency has questions regarding the application of Chapter 119, Florida statutes, it is the User Agency's duty to provide public records relating to this contract. Contact the custodian of public records at:

District 1
863-519-2623
D1prcustodian@dot.state.fl.us
Florida Dept. of Transportation
D1 – Office of General Counsel
801 N. Broadway
Bartow, FL 33830

District 6
305-470-5453
D6prcustodian@dot.state.fl.us
Florida Department of Transportation
District 6 – Office of General Counsel
1000 NW 111 Avenue
Miami, FL 33172-5800

District 2
386-758-3727
D2prcustodian@dot.state.fl.us
Florida Department of Transportation
District 2 - Office of General Counsel
1109 South Marion Avenue, MS 2009
Lake City, FL 32025

District 7
813-975-6491
D7prcustodian@dot.state.fl.us
Florida Department of Transportation
District 7 - Office of General Counsel
11201 N. McKinley Drive, MS 7-120
Tampa, FL 33612

District 3
850-330-1391
D3prcustodian@dot.state.fl.us
Florida Department of Transportation
District 3 - Office of General Counsel
1074 Highway 90 East
Chipley, FL 32428

District 4
954-777-4529
D4prcustodian@dot.state.fl.us
Florida Department of Transportation
District 4 – Office of General Counsel
3400 West Commercial Blvd.
Fort Lauderdale, FL 33309

District 5
386-943-5000
D5prcustodian@dot.state.fl.us
Florida Department of Transportation
District 5 – Office of General Counsel
719 South Woodland Boulevard
DeLand, FL 32720

Florida's Turnpike Enterprise
407-264-3170
TPprcustodian@dot.state.fl.us
Turnpike Enterprise Chief Counsel
Florida Turnpike – Office of General Counsel
Turnpike Mile Post 263, Bldg. 5315
Ocoee, FL 34761

Central Office
850-414-5355
COprcustodian@dot.state.fl.us
Office of the General Counsel
Florida Department of Transportation
605 Suwannee Street, MS 58

25. E-Verify

The User Agency shall:

- A. Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Agency during the term of the contract; and
- B. Expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

26. Attachments

Please check appropriate box:

- ☐ None ☒ Yes (List attached to Agreement)

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK.

SIGNATURE PAGE FOLLOWS.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed this _____ day of

_____, _____.

**USER AGENCY
MIAMI-DADE COUNTY**

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

By: _____
Printed Name:

By: _____
Printed Name:

Title

Title

Attest: _____ (SEAL)

FOR DEPARTMENT USE ONLY

TECHNICAL APPROVAL:

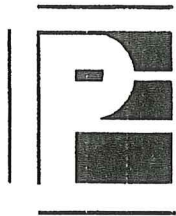
LEGAL REVIEW:

Central Office Review
ITS Communications Administrator

Office of General Counsel

ATTACHMENTS

1. Pate Engineering, Inc. Tower Analysis Report
2. RadioSoft, Inc. Intermodulation Study
3. Motorola Solutions Construction Drawings
4. Okeechobee Proposed Tower Loading Diagram



**PATE
ENGINEERING
INC.**

13540 N. FLORIDA AVE., SUITE 203

TAMPA, FLORIDA 33613

(813) 960-0002

TOWER ANALYSIS REPORT

December 4, 2018

Motorola Solutions, Inc.
10500 NW 5th Manor
Plantation, Florida 33324
Attn: Mr. Jeff Karbonik, Project Manager

250-Ft Self-Supporting Tower
Okeechobee Site
Our Job # 18-154 B

AUTHORIZATION

In accordance with our proposal No. PR072-18, your PO No. NP95226108 and your instructions, Pate Engineering has analyzed the 250-ft. self-supporting tower located at Okeechobee Road and The Florida Turnpike (Hwy. 821), Dade County, Florida.

INTRODUCTION

The information concerning this tower was obtained from our site visit , Pirod Inc. Drawing No. 201982-B pages 1 to 7, dated 10/18/96, and our previous work on this site. The provided information included the original foundation reactions. The Pirod page 1 Drawing is attached for reference.

The site was visited on November 15, 2018, to gather information required for the analysis. The existing antennas, equipment and transmission lines were mapped at that time. The provided information was partially verified during the visit.

The tower has been analyzed for the addition of two SD3554-SF2PALDF antennas and a 6-ft. HP Dish antenna, as described on Page 2 of this report.

ANALYSIS CRITERIA

This tower has been analyzed per **ANSI/TIA-222-G** for **144 MPH** basic wind speed. This meets the requirements of the **Florida Building Code 2017** (6th Edition) for a 3-second gust ultimate wind speed of **186 MPH**. It is the responsibility of the Client to verify that this analysis criteria meets the requirements of the Owner and the local building department.

The wind was considered in the following directions:

1. Wind "A" wind blowing on the faces of the tower.
2. Wind "B" wind blowing on the corners of the tower.
3. Wind "C" wind blowing parallel to the tower faces.

These cases considered all the applicable loads due to the deadweight of the structure and appurtenances. The effects of wind on the tower structure, antennas, and ancillary items such as ladders, cables, platforms, antenna mounts, etc. have been considered.

TOWER LOADING

The following is a list of the antennas, their elevations, and the transmission lines used in this analysis: (Note: The elevations are centerline for panel antennas and dishes. They are mounting heights for omni and whip antennas.)

<u>Elevation</u>	<u>Notes</u>	<u>Description (or Sim.)</u>	<u>Transmission Line</u>
<u>Existing Antennas</u>			
250		DB201 on Mount	7/8"
242		(2) DB810 on (2) SA	(2) 1-1/4"
227		COMPROD 531-70	7/8"
221		8-ft. HP Dish Ant.	WEP63
205		8-ft. HP Dish Ant.	WEP63
180		8-ft. HP Dish Ant.	WEP63
160		8-ft. HP Dish Ant.	WEP63
148		ASP-705 on SA	1-1/4"
130		3-ft. Grid Dish Ant.	7/8"
98	1.	(2) Cameras with Lowering Device and Mount	1-1/2" and (2) 2"
5		(2) Camera Lowering Box	Conduits
<u>Proposed Antennas</u>			
190	2.	SD3354-SF2PALDF on 6' SA	7/8"
168	2.	SD3354-SF2PALDF on 6' SA	1-5/8"
105	3.	SBX6-W60CC2 Dish Ant.	EW63

Sim: Similar To
SA: Side Arm

Notes:

1. These cameras were being installed during the site visit.
2. These antennas are manufactured by SINCLAIR.
3. This antenna is a 6-ft. HP Dish manufactured by RFS.

METHOD OF ANALYSIS

This tower was analyzed in accordance with the requirements of the **Florida Building Code 2017** and **ANSI/TIA-222-G**. Computations were performed to account for all the vertical loads, and horizontal wind forces on the tower, antennas, and ancillary items. The structure was then analyzed using a computer program developed by Guymast, Inc.

The design strength forces were calculated for the various tower components such as the legs, diagonals and horizontals. These forces were then compared with the actual forces determined by the computer program.

ASSUMPTIONS MADE

- 1.1 For the purposes of this analysis, it was assumed that all bolts, welds, members, etc. are in good condition and not degraded by rust, corrosion, or cracks.
- 1.2 The tower has been properly inspected and maintained on a routine basis.
- 1.3 The previously described antenna and tower information is correct.
- 1.4 The existing equipment, antennas and transmission lines are properly supported.
- 1.5 The foundations have been properly designed and constructed for the original design reactions shown on the Pirod drawings.
- 1.6 The connections have been properly designed and installed in accordance with the tower member capacities.
- 1.7 The original site and tower conditions have not changed.

ANALYSIS CONDITIONS

- 2.1 The proposed transmission lines will be properly installed on the support brackets installed on the South leg and inside the tower. The transmission lines can also be installed directly on the tower leg.
- 2.2 The proposed SINCLAIR antennas will be installed on Connect-it HS6 side arms with one stiff arm, or similar heavy duty standoffs. The proposed antenna side arms and mount will be properly installed on the tower legs.
- 2.3 The tower was analyzed per TIA-222-G and FBC 2017 as follows:

Basic Wind Speed: 144 MPH (3-second gust nominal wind speed)
Exposure Category: C
FBC Risk Category: Category III-IV
FBC Wind Speed: 186 MPH (3-second gust ultimate wind speed)
Topographic Category: 1

RESULTS OF ANALYSIS

This analysis, as outlined herein, indicates that the tower condition is as follows:

3.1 Tower members:

The tower members are adequate for the proposed loading condition. These analysis member forces do not exceed the member design strengths.

3.2 Foundations

The foundations were designed by Pate Engineering under Job No. 96-207Q. They were designed for the original tower reactions shown on the Pirod drawings.

Pate Engineering, Inc.
Re: Our Job #18-154 B

The foundations have been evaluated by reaction comparison. These analysis reactions are considerable lower than the allowable design reactions shown on the original drawings multiplied by the prescribed factor of 1.35, in accordance to TIA-222-G.

Therefore, the foundations are considered adequate for these analysis reactions.

RECOMMENDATIONS

- 4.1 The proposed antennas and transmission lines can be installed on the tower as described in this report.
- 4.2 The tower in general should be inspected for maintenance purposes on a routine basis and after severe weather conditions.

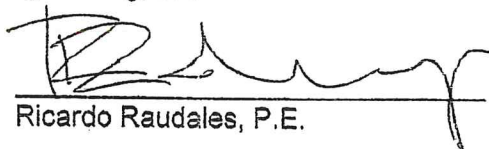
The engineering and drawings of any modifications are beyond the scope of this report.

This report is not a construction document. The information contained herein is for the use of the addressee, the tower owner, and Pate Engineering, Inc. Any use by others is prohibited except by express permission from Pate Engineering, Inc., and the addressee. All calculations, reports, sketches, and drawings, as well as any information on the tower, foundation, and soil gathered to complete this analysis are considered "Proprietary Information" and remain the sole property of Pate Engineering, Inc.

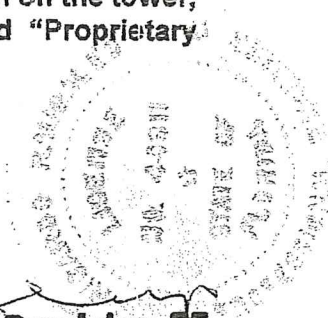
If you have any questions regarding this report, please call.

Pate Engineering, Inc.

By

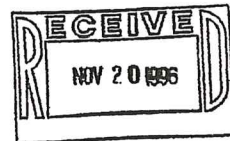
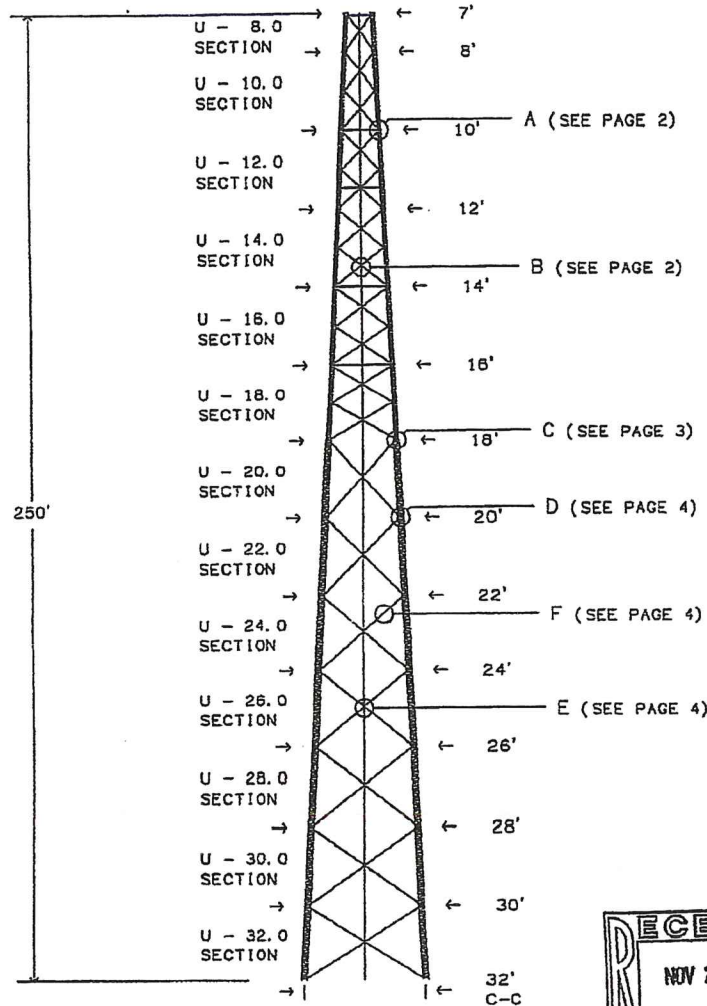
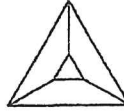

Ricardo Raudales, P.E.

Encl.



Ricardo Raudales, P.E.
FL # 44811
Date 12/4/18
FL COA #4524

TOWER DESIGN MEETS OR EXCEEDS ALL
REQUIREMENTS OF THE STATE OF FLORIDA,
DEPARTMENT OF TRANSPORTATION
AGREEMENT WITH PCS PRIMECO.



WELD GROUNDING PLATE P/N (129592) ON EACH
BOTTOM LEG DOWN 45 DEGREES AT 2' ELEVATION

DATE 21 1996

				PCS PRIMECO L. P. OKEECHOBEE, FLORIDA U - 32.0 X 250' SELF-SUPPORTING TOWER	
D	REVISED REACTIONS	RDW	10/18/1996	APPROVED/ENG.	RDW 10/18/1996
C	REVISED FINDINGS TO "BY OTHERS"	RDW	10/16/1996	APPROVED/FOUND.	N/A
B	REVISED NOTES & REACTIONS PG 5	RDW	10/16/1996	APPROVED/FOUND.	N/A
A	ADDED NOTES PAGES ONE AND FIVE	RDW	10/01/1996	APPROVED/FOUND.	N/A
REV	DESCRIPTION OF REVISIONS	INT	DATE	DRAWN BY	RDW
From: 62106.DFT - 10/01/96 08:47 > 20198210.DWG - 10/16/96 10:55				ENG. FILE NO.	A-113019-
Printed: 10/21/96 09:49				ARCHIVE	0-62106
				DRAWING NO.	201982-B
				PAGE	1 OF 7



1545 Pideo Dr.
Plymouth, IN 46563-0128
219-936-4221

Intermodulation Study

LOCATION: OKEE

Calculation Mode Intermodulation Calculator

Actual Frequencies Reviewed in this study:

Servicetype	TX-Name	Freq.	Bw[Hz]
FM	TX No.2	453.5750	12500
FM	TX No.2	453.6750	12500
FM	TX No.2	453.3500	12500
FM	TX No.2	453.5250	12500
FM	TX No.2	460.4500	12500
FM	TX No.2	460.0625	12500
FM	TX No 2	154.2950	12500
FM	TX No 2	6585.0000	30000000
FM	RX No 2	458.5750	12500
FM	RX No 2	458.7250	12500
FM	RX No 2	458.3500	12500
FM	RX No 2	458.5250	12500
FM	RX No.2	465.4500	12500
FM	RX No.2	465.0625	12500
FM	RX No 2	154.2950	12500
FM	RX No 2	6745.0000	30000000

General Data

Program Version CHIRplus_BC 7.2.0.1
Calculated 24/10/18 11:46
User Name MH

Intermodulation Calculation Options

Signals Consider 1 input Signals, Consider 2 input Signals, Consider 3 input Signals
Orders Order2, Order3, Order5, Order7

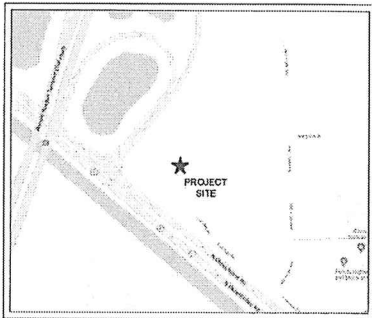
Transmitters (Carrier Frequencies)

f/MHz	Call	OS	Name	Service	Mark
453.575		EX2	TX No.2	FM	M
453.675		EX2	TX No.2	FM	M
453.350		EX2	TX No.2	FM	M
453.525		EX2	TX No.2	FM	M
460.450		EX2	TX No.2	FM	M
460.063		EX2	TX No.2	FM	M
154.295		EX2	TX No 2	FM	M
6585.000		EX2	TX No 2	FM	M

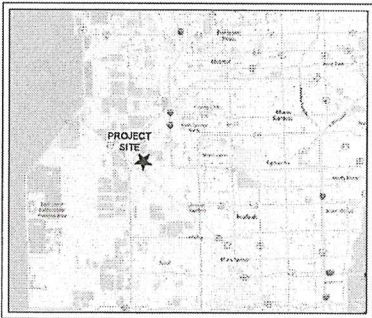
Receivers (Assigned Frequencies)

f/MHz	Call	OS	Name	Service	BWDT / kHz
458.575		EX2	RX No 2	FM	12.5
458.725		EX2	RX No 2	FM	12.5
458.350		EX2	RX No 2	FM	12.5
458.525		EX2	RX No 2	FM	12.5
465.450		EX2	RX No.2	FM	12.5
465.063		EX2	RX No.2	FM	12.5
154.295		EX2	RX No 2	FM	12.5
6745.000		EX2	RX No 2	FM	30000.0

Matching results not found...No Intermodulation Interference immediately reflected



SITE VICINITY MAP



LOCAL MAP



MOTOROLA SOLUTIONS

MIAMI-DADE COUNTY - OKEE

NW 112 AVENUE
HIALEAH, FL 33018

LAT: 25° 54' 00" N
LONG: 80° 22' 57" W

PROJECT CONTACTS:
PROJECT MANAGER:
JEFF KARBONAK
MOTOROLA SOLUTIONS, INC.
(954) 444-5583

CO-LOCATE EXISTING SELF-SUPPORT TOWER

INDEX OF DRAWINGS

T1	COVER SHEET
T2	GENERAL NOTES
T3	GENERAL NOTES
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C2	SITE LAYOUT PLAN
C3	FLOOR LAYOUT PLAN
C4	FOUNDATION DETAILS
E1	INTERIOR POWER PLAN
E2	GROUNDING PLAN
E3	GROUNDING DETAILS
E4	ELECTRICAL SINGLE LINE DIAGRAM
E5	PANEL SCHEDULES
E6	HVAC PLAN
E7	FENCE GROUNDING DETAILS
E8	COAX GROUNDING DETAILS
P1	PIPING SCHEMATIC

USE:
UNMANNED TELECOMMUNICATIONS RELAY EQUIPMENT IN A PROPOSED UNMANNED FACILITY.

NOTES:
CONTRACTOR SHALL NOTIFY OWNER FOR ACCESS TO SITE.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



MOTOROLA

8000 W. SUHRRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 6115-16-034
DRAWN: J.B. GILES
CHECKED: F.B. SHIVER
APPROVED: F.B. SHIVER
DATE: 12/02/15

wood.

WOOD ENGINEERING AND PROFESSIONAL ARCHITECTURE, INC.
11715 POWER LAKE AVENUE, SUITE 100
FORT LAUDERDALE, FL 33328
PHONE: (772) 421-3400 FAX: (772) 421-3408
FLORIDA CERTIFICATE OF AUTHORIZATION #15332

NO.	DATE	REVISION
A	07/23/16	LEASE EXHIBIT
B	11/12/16	ISSUED FOR PRELIMINARY
C	07/28/19	ISSUED FOR PRELIMINARY
D	07/07/19	ISSUED FOR PRELIMINARY
E	11/07/19	ISSUED FOR PRELIMINARY
F	07/09/21	ISSUED FOR PRELIMINARY
G	08/19/21	ISSUED FOR PRELIMINARY

SHEET NO. 8 OF 8

T1
COVER SHEET

GENERAL REQUIREMENTS

1. GENERAL

1.1. SUMMARY OF WORK

A. THE WORK SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE INSTALLATION OF GROUNDING, ELECTRICAL WORK, ETC., ASSOCIATED WITH THE MOTOROLA EQUIPMENT AS INDICATED ON DRAWINGS AND AS SPECIFIED HEREIN. CONTRACTOR SHALL SUPPLY ALL PERMANENT MATERIALS/EQUIPMENT REQUIRED AND ALL LABOR, EQUIPMENT, TOOLS, UTILITIES, MAJOR HARDWARE/MATERIALS, TRANSPORTATION AND FACILITIES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF SERVICES AND INSTALL WORK WHETHER TEMPORARY OR PERMANENT. CONTRACTOR SHALL BE OBLIGATED TO PERFORM ALL THE WORK OUTLINED IN THESE DRAWINGS IN ACCORDANCE WITH THE CONTRACT AGREEMENT, FEDERAL REGULATIONS, STATE REQUIREMENTS, LOCAL CODES, COMMERCIAL/INDUSTRY STANDARDS, DETAILED SCOPE OF WORK AND THE DOCUMENTS IDENTIFIED BELOW. IN CASE OF A CONFLICT BETWEEN THE ABOVE LISTED DOCUMENTS REGARDING STANDARDS OF WORK, THE MORE STRINGENT CRITERIA SHALL APPLY. ANY ADDITIONAL COSTS OR DELAYS RESULTING FROM CORRECTION OF THE WORK TO COMPLY WITH THE ABOVE REQUIREMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.2. SITE VISIT

CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE ITSELF WITH THE SCOPE OF WORK REQUIRED FOR THE DRAWINGS AND ALL LOCAL CONDITIONS AND LAWS AND REGULATIONS THAT MAY IN ANY MANNER AFFECT THE PRICE, PROCESS AND PERFORMANCE OF WORK, INCLUDING ANY COSTS ASSOCIATED WITH IT. THE CONTRACTOR SHALL ALSO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND NOTIFY THE MOTOROLA REPRESENTATIVE OF ANY DISCREPANCIES OR INTERFERENCES WHICH AFFECT THE WORK OF THIS CONTRACT.

1.3. STANDARDS AND CODES

THE FOLLOWING DOCUMENTS (LATEST REVISION) SHALL BE CONSIDERED TO BE SPECIFICATION AND ARE INCORPORATED HEREIN BY REFERENCE. IN THE EVENT OF CONFLICT BETWEEN THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE REFERENCED DOCUMENTS, THE STRICTER SPECIFICATION SHALL CONTROL. WHERE PROVISIONS OF THE CODES AND STANDARDS ARE IN CONFLICT WITH THE BUILDING CODE IN FORCE FOR THIS PROJECT, THE BUILDING CODE SHALL GOVERN.

A. AMERICAN CONCRETE INSTITUTE:

- * ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- * ACI 308 "HOT WEATHER CONCRETING".
- * ACI 308 "COLD WEATHER CONCRETING".
- * ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- * ACI 611 "RECOMMENDED PRACTICE FOR MEASURING, MIXING AND PLACING CONCRETE".
- * ACI 311 "RECOMMENDED PRACTICE FOR CONCRETE INSPECTION".
- * ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- * ACI 613 "RECOMMENDED PRACTICE FOR SELECTING PROPORTIONS FOR CONCRETE".

B. AMERICAN NATIONAL STANDARDS INSTITUTE:

- * ANSI Z39.1 REQUIREMENTS FOR PERSONAL FALL ARREST SYSTEMS, SUBSYSTEMS AND COMPONENTS
- * ANSI Z87.1 OCCUPATIONAL AND EDUCATIONAL EYE AND FACE PROTECTION
- * ANSI Z89.1 PROTECTIVE HEADWEAR FOR INDUSTRIAL WORKERS - REQUIREMENTS
- * ANSI/IEEE C95.1 SAFETY LEVELS WITH RESPECT TO HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY
- * ANSI/TIA/EIA STANDARD 222 STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.

C. AMERICAN INSTITUTE OF STEEL CONSTRUCTION:

- * AISI MANUAL OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION LATEST EDITION

D. AMERICAN SOCIETY FOR TESTING AND MATERIALS:

- * ASTM A415 - "SPECIFICATION FOR ROLLED AND PLAIN BUILT STEEL BARS FOR CONCRETE REINFORCEMENT".
- * ASTM C94-80 - "SPECIFICATION FOR READY-MIX CONCRETE".
- * ASTM C39-77 - "SPECIFICATION FOR TEST FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMEN".
- * ASTM C133 - "SPECIFICATION FOR CONCRETE AGGREGATE".
- * ASTM C150 - "SPECIFICATION FOR PORTLAND CEMENT".
- * ASTM C172 - "SAMPLING FRESH CONCRETE".
- * ASTM C143 - "SLUMP OF PORTLAND CEMENT CONCRETE".
- * ASTM D698-91 - "TEST METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT".
- * ASTM D1556-84 - "DENSITY OF SOIL IN PLACE BY THE SAND-CONE METHOD".
- * ASTM D1557 - "TEST METHOD FOR MOISTURE-UNIT WEIGHT RELATIONS OF SOILS AND SOIL-AGGREGATE MIXTURES USING 10-LB. HAMMER AND 18-IN. DROP". (PROCEDURE C)
- * ASTM D2487 - "STANDARD CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES (UNIFIED SOIL CLASSIFICATION SYSTEM)".
- * ASTM D2922 - "DENSITY OF SOIL AND SOIL AGGREGATE IN PLACE BY NUCLEAR METHODS SHALLOW DEPTH".
- * ASTM D2940 - "STANDARD SPECIFICATION FOR GRAVEL AGGREGATE MATERIAL FOR BASES OR SUB-BASES FOR HIGHWAYS OR AIRPORTS".

E. AMERICAN WELDING SOCIETY:

- * AWS D12.1 - "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION".

F. CONCRETE REINFORCING STEEL INSTITUTE:

- * "MANUAL OF STANDARD PRACTICE"

G. FEDERAL AVIATION ADMINISTRATION:

- * DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR, AC 70/1460-11, CONSTRUCTION WARNING AND LIGHTING.
- * DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR, 150-5045-43, FIM/DOO SPECIFICATION L-656: HIGH INTENSITY OBSTRUCTION LIGHTING SYSTEMS.

H. FEDERAL COMMUNICATIONS COMMISSION:

- * FEDERAL COMMUNICATIONS COMMISSION - RULES AND REGULATIONS PART 17: CONSTRUCTION, MAINTENANCE AND LIGHTING OF ANTENNA STRUCTURES.

I. STRUCTURAL STEEL PAINING COUNCIL:

- * SSPC-SP-1-63: SPECIFICATION FOR PAINTING STEEL STRUCTURES.

J. MOTOROLA R&D STANDARDS AND GUIDELINES FOR COMMUNICATIONS SITES (8 VERSION 2006).

K. MOTOROLA'S CIVIL WORKS BID SPECIFICATIONS:

- * NFPA 1 - FIRE PROTECTION CODE
- * NFPA 70 - NATIONAL ELECTRICAL CODE
- * NFPA 101 - LIFE SAFETY CODE
- * NFPA 111 - STANDARD ON STORED ELECTRICAL ENERGY, EMERGENCY AND STANDBY POWER SYSTEMS
- * NFPA 780 - STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS

M. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:

- * OSHA 1926
- * OSHA DIRECTIVES CPL 2-1.29 - INTERIM INSPECTION PROCEDURES DURING COMMUNICATION TOWER CONSTRUCTION ACTIVITIES.

N. LOCAL BUILDING CODES:

- * 2010 FLORIDA BUILDING CODE 7TH EDITION
- * 2017 ADO
- * FLORIDA ACCESSIBILITY CODE
- * ASHRAE 90-1-2004

1.4. NOTICE TO PROCEED

WHEN THE SITE IS READY FOR INSTALLATION, MOTOROLA SHALL ISSUE A NOTICE TO PROCEED TO THE CONTRACTOR. UPON RECEIPT OF THE NOTICE OF PROCEED, THE CONTRACTOR SHALL SUBMIT TO MOTOROLA A SCHEDULE REFLECTING THE WORK PLAN. THE CONTRACTOR SHALL ADVISE THE MOTOROLA REPRESENTATIVE IMMEDIATELY OF ANY SCHEDULE CHANGES. THE CONTRACTOR SHALL ADJUST HIS WORK, AS REQUIRED, TO COORDINATE WITH THE MOTOROLA INSTALLATION TEAM IF THE SCHEDULES OVERLAP.

1.5. MOTOROLA REPRESENTATIVE:

MOTOROLA SHALL DESIGNATE A REPRESENTATIVE. THIS PERSON IS THE ONLY CONTACT POINT AUTHORIZED TO MAKE ANY CHANGES TO THE CONTRACT PROVISIONS OR THE PLANS AND SPECIFICATIONS. ANY CHANGES MADE BY THE CONTRACTOR ARE AT THE CONTRACTOR'S RESPONSIBILITY AND RISK.

1.6. CONTRACTOR'S FIELD REPRESENTATIVE:

CONTRACTOR SHALL ASSIGN A FIELD REPRESENTATIVE WHO IS FAMILIAR WITH THESE SPECIFICATIONS AND WILL REPRESENT THE CONTRACTOR AND HAVE THE AUTHORITY TO ACT FOR THE CONTRACTOR AND SUPERVISE ALL CONSTRUCTION ACTIVITIES. THE FIELD REPRESENTATIVE SHALL BE AVAILABLE WHEN CONSTRUCTION ACTIVITIES BEGIN. THE FIELD REPRESENTATIVE SHALL BE THE PRIMARY POINT OF CONTACT FOR MOTOROLA DURING THE CONSTRUCTION PHASE OF THE WORK.

1.7. PROJECT MEETINGS

THE CONTRACTOR SHALL CONDUCT THE INITIAL (PRE-CONSTRUCTION) MEETINGS (INCLUDING ALL SUB-CONTRACTORS) WITH THE MOTOROLA REPRESENTATIVE WITHIN TWO WEEKS AFTER AWARD OF THE CONTRACT. SUBSEQUENTLY, THE CONTRACTOR SHALL PROVIDE PROGRESS SCHEDULE UPDATES TO MOTOROLA ON A WEEKLY BASIS.

1.8. MATERIALS

CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AS REQUIRED FOR COMPLETE SYSTEMS INCLUDING ALL PARTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER SPECIFICALLY NOTED OR NOT. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO MOTOROLA'S ACCEPTANCE.

MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KINDS (AS DEFINED BY INDUSTRY STANDARDS), FREE OF DEFECTS AND ALL MATERIALS SHALL BE NEW AND UNUSED IN ALL CASES, UNLESS OTHERWISE SPECIFIED. WHERE THE NAME OF A CONTRACTOR OR MANUFACTURER IS MENTIONED ON DRAWINGS OR IN SPECIFICATIONS IN REFERENCE TO A REQUIRED SERVICE OR PRODUCT, AND NO QUALIFICATIONS OR SPECIFICATION OF SUCH IS INCLUDED, THEN THE MATERIAL SPECIFICATIONS, DETAILS OF MANUFACTURE, FINISH, ETC., SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD PRACTICE, DETAIL OR SPECIFICATIONS. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

1.9. VERIFICATION OF EXISTING CONDITIONS

BEFORE STARTING ANY OPERATIONS, THE CONTRACTOR SHALL EXAMINE EXISTING WORK, OR WORK PERFORMED BY OTHERS, TO WHICH ITS WORK IS TO ADDON OR BE APPLIED, AND SHALL REPORT TO MOTOROLA PROJECT MANAGER ANY CONDITIONS THAT WILL PREVENT SATISFACTORY ACCOMPLISHMENT OF HIS WORK. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF ALL SURVEY DATA AS INDICATED IN THE PLANS AND SPECIFICATIONS AND/OR AS PROVIDED BY MOTOROLA. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS, OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE MOTOROLA REPRESENTATIVE IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND OBTAINED. FAILURE TO NOTIFY THE MOTOROLA REPRESENTATIVE OF DEFICIENCIES, ERRORS OR FAULTS PRIOR TO COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE THEREOF AND WAIVER OF ANY CLAIMS OF INADEQUACY, ERRORS, OMISSIONS OR INACCURACIES.

THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PRESERVING ALL ESTABLISHED SURVEY CONTROL POINTS. IF THE CONTRACTOR OR ANY OF HIS SUB-CONTRACTORS MOVE OR DESTROY ANY SURVEY CONTROL POINTS, THE COST INCURRED BY THE LAND OWNER OR MOTOROLA TO RE-ESTABLISH THEM WILL BE BORNE BY THE CONTRACTOR.



MOTOROLA

8000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WCO PROJECT NO. 6162-16-0534
DRAWN: J. GLIER CHECKED: M.A. CUFFIN
APPROVED: M.A. CUFFIN DATE: 12/07/15

wood.

WOOD BUILDING AND CONSTRUCTION, INC.
1775 N. 14TH AVE., SUITE 120
FORT LAUDERDALE, FL 33304
PHONE: (772) 471-5400 FAX: (772) 471-5408
FLORIDA CERTIFICATE OF AUTHORIZATION #0022

NO.	DATE	REVISION
A	07/23/10	LEASE EXHIBIT
B	11/12/10	ISSUED FOR PRELIMINARY
C	02/25/11	ISSUED FOR PRELIMINARY
D	07/02/11	ISSUED FOR PRELIMINARY
E	11/20/11	ISSUED FOR PRELIMINARY
F	07/26/12	ISSUED FOR PRELIMINARY
G	08/15/12	ISSUED FOR PRELIMINARY

SHEET NO. 6 HAVE

T2
GENERAL NOTES

1.10. PERMITS

THE CONTRACTOR SHALL OBTAIN ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE CONTRACTOR SHALL MEET ALL OF THE REGULATORY REQUIREMENTS OF THE JURISDICTION GOVERNING CONSTRUCTION.

1.11. SITE INSPECTION BY MOTOROLA

THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR ARRANGING WITH MOTOROLA FOR AN INSPECTION PRIOR TO COVERING UP ALL WORK THAT WILL BE COVERED IN FINISHED CONDITION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MANAGE THE SEQUENCE OF WORK AND REQUEST THE INSPECTIONS IN A TIMELY MANNER. THE CONTRACTOR SHALL NOT REQUEST AN INSPECTION UNLESS ALL OF THE RELATED WORK HAS BEEN COMPLETED. WORK SHALL NOT PROCEED TO THE NEXT STEP UNTIL THE PREVIOUS STEP HAS BEEN INSPECTED AND APPROVED BY THE LOCAL INSPECTORS AND THE MOTOROLA REPRESENTATIVE. THE PRESENCE OF THE OWNER OR MOTOROLA REPRESENTATIVE ON THE JOB SITE IN NO WAY RELIEVES THE CONTRACTOR OF THE ASSOCIATED RESPONSIBILITIES OF THE JOB. ANY WORK WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS WILL BE CORRECTED OR REMOVED SOLELY AT THE CONTRACTOR'S EXPENSE.

THE FOLLOWING INFORMATION IS INCLUDED AS A GUIDE TO THE CONTRACTOR TO ASSIST IN DETERMINING THE TYPE AND FREQUENCY OF INSPECTIONS. THE LISTED INSPECTIONS REPRESENT THOSE REQUIRED FOR SMALL OR SIMPLE PROJECTS. LARGE OR COMPLEX PROJECTS MAY REQUIRE ADDITIONAL INSPECTIONS DEPENDING ON THE SCOPE OF WORK.

- * FOUNDATIONS EXCAVATION AND REPAIR: TO BE MADE AFTER TRENCHES ARE EXCAVATED AND FORMS ERECTED, REINFORCEMENT PLACED, CONCRETE TESTED, SOIL TREATED, VAPOR BARRIER PLACED, AND ESSENTIALLY READY FOR CONCRETE PLACEMENT
- * DRAINAGE: TO BE MADE AFTER THE BELOW GROUND DRAINED CONNECTIONS HAVE BEEN COMPLETED, PRIOR TO COVERING UP THE TRENCHES
- * ELECTRICAL WORK WITHIN WALLS: TO BE MADE AFTER THE ROOF, FRAMING, FLOORING AND BRACING IS IN PLACE PRIOR TO THE INSTALLATION OF INSULATION OR WALL/CEILING MEMBRANES.

AS A GENERAL RULE, THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE TO MOTOROLA FOR INSPECTION OF ALL WORK PRIOR TO COMPLETION. THE CONTRACTOR HAS RESPONSIBILITIES RELATIVE TO ALL TYPES OF INSPECTIONS AND IS RESPONSIBLE FOR CONTACTING ALL OF THE INSPECTING ENTITIES TO DETERMINE HIS RESPONSIBILITIES. ALL OF THESE INSPECTING ENTITIES HAVE UNIQUE AND SEPARATE RESPONSIBILITIES. ONE INSPECTION FROM AN ENTITY WILL NOT SUBSTITUTE FOR AN INSPECTION FROM ANOTHER ENTITY.

1.12. SAFETY

THE CONTRACTOR, HIS EMPLOYEES, ANY SUB-CONTRACTORS, VENDORS, THEIR RESPECTIVE EMPLOYEES AND CONTRACTOR'S VISITORS SHALL COMPLY WITH ALL SAFETY STANDARDS, ACCIDENT PREVENTION REGULATIONS AND ENVIRONMENTAL REGULATIONS PROMULGATED BY FEDERAL, STATE OR LOCAL AUTHORITIES HAVING JURISDICTION AND SHALL AT ALL TIMES CONDUCT ALL OPERATIONS UNDER THE CONTRACT IN A MANNER TO AVOID THE RISK OF BODILY HARM TO ANY PERSONS AND THE RISK OF DAMAGE TO ANY PROPERTY, EQUIPMENT OR MATERIAL. SUCH PARTIES SHALL ALSO COMPLY WITH ANY SAFETY PROGRAMS AND/OR RULES PROMULGATED BY OWNER AND/OR MOTOROLA.

1.13. ELECTRO-MAGNETIC EMISSIONS

THE CONTRACTOR SHALL ACKNOWLEDGE ALL OR PORTIONS OF THE WORK MAY INVOLVE POSSIBLE EXPOSURE OF CONTRACTOR, SUB-CONTRACTORS, AND THEIR RESPECTIVE EMPLOYEES, AGENTS, INTERVIS, LICENSEES AND OTHER VISITORS TO THE JOBSITE. AND/OR MOTOROLA PROVIDES TO ELECTRO-MAGNETIC EMISSION (EME) WHILE PERFORMING WORK UNDER THIS CONTRACT. ESPECIALLY IF WORK IS PERFORMED ON EXISTING ANTENNA TOWERS OR BUILDING TIPS WHERE ANTENNAS ARE LOCATED, THE CONTRACTOR REPRESENTS THAT CONTRACTOR, SUBCONTRACTORS, AND ALL OF THEIR RESPECTIVE EMPLOYEES, AGENTS, INTERVIS, LICENSEES, AND OTHER AUTHORIZED REPRESENTATIVES WHO ARE PERFORMING SERVICES UNDER THIS AGREEMENT WILL COMPLY WITH ALL ASH AND ANY OTHER APPLICABLE EME STANDARDS, RULES OR REGULATIONS, INCLUDING, BUT NOT LIMITED TO THOSE RULES OR REGULATIONS IMPOSED OR SUGGESTED BY MOTOROLA, IF ANY.

THE CONTRACTOR SHALL ADHERE TO ALL ESH RULES, REGULATIONS AND ADOPTED POLICES. ALL CONTRACTOR PERSONNEL SHALL HAVE UNDERSTANDING OF RADIOFREQUENCY (RF) RADIATION FOR PERSONNEL WORKING IN THE VICINITY OF ACTIVE ANTENNAS. AS SUCH IT IS RECOMMENDED THAT IF MONITORS BE USED BY THE TOWER PERSONNEL TO MONITOR EXPOSURE LEVELS. IF THE LEVELS AT THE SITE EXCEED THE MAXIMUM PERMISSIBLE EXPOSURE LIMITS, THE CONTRACTOR SHALL COORDINATE WITH THE INDIVIDUALS RESPONSIBLE FOR USE OF THE TRANSMITTER TO MAKE SURE THAT THE EQUIPMENT IS DEACTIVATED BEFORE WORK CAN BE RESUMED, WITHOUT CAUSING A SERIOUS DISRUPTION OF THE SERVICE.

1.14. SITE CLEANUP

THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, VEGETATION, AND RUBBER, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. WHENEVER THE WORK-SITE IS LEFT UNATTENDED, THE CONTRACTOR SHALL BLOCK THE OPENING WITH WARNING TAPE TO DISCOURAGE TRESPASSING. THE PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DIRT, OR SHADOWS OF ANY NATURE AT THE CONCLUSION OF SITE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LANDSCAPE GRADING AND SEEDING OF THE DISTURBED SOIL. THE CONTRACTOR SHALL USE LOCAL GRASS SEED TO STABILIZE SOIL AND SHALL COVER DISTURBED AREAS WITH MULCH TO REDUCE RUNOFF OF SEDIMENT TO DOWNSIDE AREAS. THE CONTRACTOR SHALL RESTORE THE SITE TO ITS ORIGINAL CONDITION. ALL SLOPES AND DISTURBED AREAS NOT RECOVERING ADEQUATE SURFACES ARE TO BE PREPARED AND BROADCAST SEEDING AND FERTILIZED FOR BROWN PROTECTION. SEEDING FOR AREAS DISTURBED SHALL BE ESTABLISHED SEASONALLY AS REQUIRED BY LOCAL CODES.

THE CONTRACTOR SHALL EXERCISE ALL CARE TO AVOID DAMAGE OR INTERRUPTION OF EXISTING UNDERGROUND OR OVERHEAD ELECTRIC SERVICES, UNDERGROUND DRAINAGE AND FUEL LINES, EQUIPMENT AND BUILDINGS ON THE SITE, PLUS OFF SITE SERVICES, BURIED OR OVERHEAD, SURROUNDING THE EXISTING OR EXPANDED CONDUITS. ANY PROPERTY DAMAGE CAUSED BY THE CONTRACTOR OR HIS OPERATIONS SHALL BE CORRECTED AND/OR RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER(S) AND MOTOROLA AT NO ADDITIONAL COST TO THE PROPERTY OWNER OR MOTOROLA.

1.15. FACILITY STARTUP & COMMISSIONING

THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL DEMONSTRATE TO MOTOROLA THAT ALL SYSTEMS AND SUB-SYSTEMS INSTALLED UNDER THIS CONTRACT, OPERATE PROPERLY PRIOR TO THE FINAL ACCEPTANCE INSPECTION. PROVIDE THE OPERATIONS AND MAINTENANCE MANUALS AT THIS TIME.

1.16. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL KEEP UP-TO-DATE MARKED-UP PRINTS OF THE PROJECT DRAWINGS. UPON COMPLETION OF WORK AT THE SITE, THE CONTRACTOR SHALL REVIEW THE COMPLETED AS-BUILT DRAWINGS, AND ASCERTAIN THAT ALL DATA FURNISHED ON THE DRAWINGS IS ACCURATE AND TRULY REPRESENTS THE WORK AS ACTUALLY INSTALLED. DRAWINGS INDICATING CHANGES TO THE DRAWINGS SHALL BE RED OR GREEN AND CLEARLY VISIBLE. TWO (2) SETS OF "AS-BUILT" DRAWINGS SHALL BE FURNISHED TO THE MOTOROLA REPRESENTATIVE AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL ALSO SHOW THE FOLLOWING:

- * MODIFICATIONS TO SITE LAYOUT.
- * GROUNDING SYSTEM LOCATES.
- * UNDERGROUND FUEL LINE RUN.
- * UNDERGROUND TIEED CABLE RUN.
- * UNDERGROUND ELECTRICAL RUN.

WHERE THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE SITE EQUIPMENT (SHELTER, ISOLATION TRANSFORMER, GENERATOR, ETC.) THAT REQUIRES PERIODIC MAINTENANCE, THE CONTRACTOR SHALL INCLUDE ALL OPERATION AND MAINTENANCE MANUALS AND ALL AS-BUILT DRAWINGS WHICH FULLY DESCRIBE THE ACTUAL INSTALLED EQUIPMENT.

1.17. TEST PROCEDURES AND RESULTS

THE CONTRACTOR IS REQUIRED TO SUBMIT THE RESULTS OF ALL TESTS REQUIRED BY THE PROJECT SPECIFICATIONS AND DRAWINGS THAT FALL WITHIN HIS SCOPE OF WORK TO THE MOTOROLA REPRESENTATIVE WITHIN FIVE (5) DAYS OF THE TEST. THE CONTRACTOR IS REQUIRED TO SUBMIT TEST PROCEDURES NINETY (90) DAYS PRIOR TO THE TESTS BEING CONDUCTED. IN GENERAL, THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TEST RESULTS:

- * CONCRETE COMPRESSION TEST FOR ALL CONCRETE WORK.
- * TIE ROD REFLECTOMETER (TOR) / SWEET TEST FOR ANTENNA AND TRANSMISSION LINE INSTALLATION WORK.
- * FUEL LINE LEAKAGE TEST FOR FUEL TANK AND PUMP INSTALLATION WORK.
- * SLEW TEST FOR CONCRETE WORK.
- * GROUNDING RESISTANCE TEST FOR GROUNDING WORK.
- * ANY OTHER TEST THAT MAY BE REQUIRED.

1.18. CONTRACT CLOSURE

THE MOTOROLA REPRESENTATIVE WILL PROVIDE A CERTIFICATE OF COMPLETION AND APPROVE FINAL PAYMENT WHEN ALL PURCH-LET ITEMS HAVE BEEN CORRECTED AND ALL SYSTEMS ARE ACCEPTABLE. AFTER FINAL PAYMENT, CONTRACTOR WILL SIGN A RELEASE OF LIEN.

1.19. WARRANTY

ALL WORK PERFORMED BY THE CONTRACTOR IN COMPLETING THE SCOPE IDENTIFIED ON THE DRAWINGS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL COMPLETION OF THE PROJECT. THIS GUARANTEE SHALL COVER ALL MATERIALS, EQUIPMENT OR WORKMANSHIP WHICH IN THE OPINION OF MOTOROLA IS RENDERED DEFECTIVE OR INTERIOR OR NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT DURING THE GUARANTEE PERIOD. IF, WITHIN THE GUARANTEE PERIOD, REPAIRS OR CHANGES ARE REQUIRED TO CORRECT THE GUARANTEE WORK, THEN UPON RECEIPT OF NOTICE, THE CONTRACTOR SHALL PROMPTLY AND WITHOUT EXPENSE TO MOTOROLA OR COUNTY, PROCEED TO:

- * PLACE IN SATISFACTORY CONDITION ALL OF SUCH GUARANTEED WORK AND CORRECT ALL DEFECTS THEREON.
- * MAKE GOOD ALL DAMAGES TO THE STRUCTURE OR SITE OR EQUIPMENT OR CONTENTS THEREON, WHICH, IN THE OPINION OF THE MOTOROLA, IS THE RESULT OF THE USE OF MATERIALS, EQUIPMENT, OR WORKMANSHIP WHICH ARE DEFECTIVE, OR NOT IN ACCORDANCE WITH THE TERMS OF THE CONTRACT;
- * MAKE GOOD ANY WORK, MATERIALS OR EQUIPMENT, AND ADJACENT STRUCTURES DISTURBED IN FULFILLING THE GUARANTEE.



MOTOROLA

6000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (854) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 816C-18-03M
OWNER: J. GLENN DESIGNER: W.A. GUSTIN
APPROVED: W.A. GUSTIN DATE: 12/07/15

wood.

VEGETATION ADAPTATION AND RECONSTRUCTION, INC.
1774 145 STREET, SUITE 100, SUITE 100
DENVER, CO 80202
PHONE: (772) 425-3428 FAX: (772) 425-3428
FLORIDA CERTIFICATE OF AUTHORIZATION #0002

NO.	DATE	REVISION
A	07/23/15	LEAD DESIGN
B	12/12/15	ISSUED FOR PRELIMINARY
C	02/28/16	ISSUED FOR PRELIMINARY
D	07/07/16	ISSUED FOR PRELIMINARY
E	07/07/16	ISSUED FOR PRELIMINARY
F	07/06/21	ISSUED FOR PRELIMINARY
G	08/11/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

T3
GENERAL NOTES



1
C1 AERIAL VIEW
SCALE: NOT TO SCALE



MOTOROLA
8000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 0100-18-03M
DRAWN: J.R. CULMER CHECKED: F.B. SHORE
APPROVED: F.B. SHORE DATE: 10/07/15

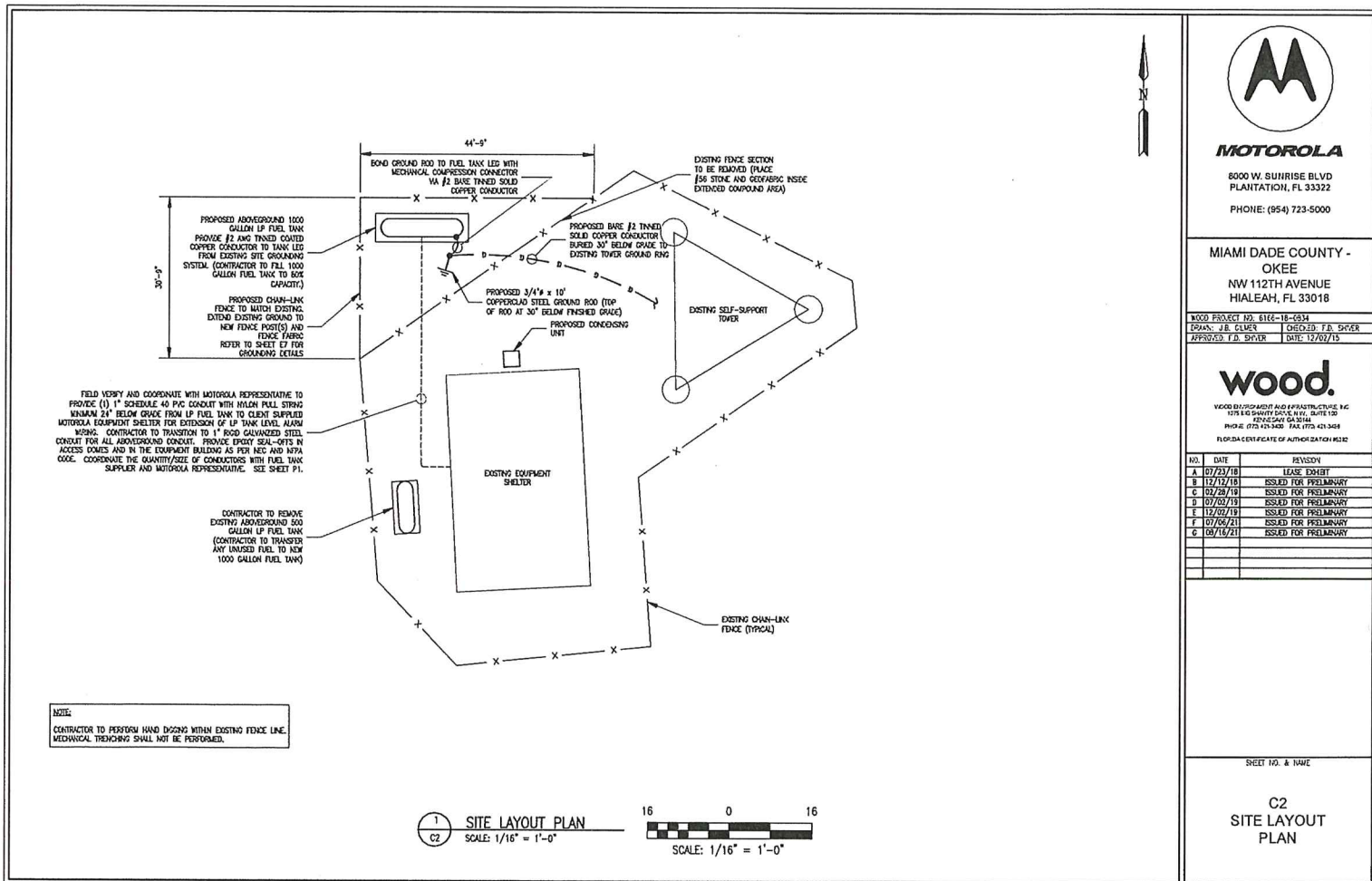
wood.

WOOD ENVIRONMENTAL AND INFRASTRUCTURE, P.C.
1075 E. G. SWIFT BLVD. SUITE 100
DADE COUNTY, FL 33126
PHONE: (772) 421-5432 FAX: (772) 421-5433
FLORIDA CERTIFICATE OF AUTHORIZATION HERE:

NO.	DATE	REVISION
A	07/25/18	LEASE DRAFT
B	10/10/18	ISSUED FOR PRELIMINARY
C	07/25/19	ISSUED FOR PRELIMINARY
D	07/02/19	ISSUED FOR PRELIMINARY
E	11/20/19	ISSUED FOR PRELIMINARY
F	07/26/21	ISSUED FOR PRELIMINARY
G	04/16/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

C1
AERIAL VIEW





MOTOROLA
8000 W. SUHRRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 6162-18-63M
DRAWN: J.B. OLIVER CHECKED: F.D. SHYER
APPROVED: T.D. SHYER DATE: 12/02/15

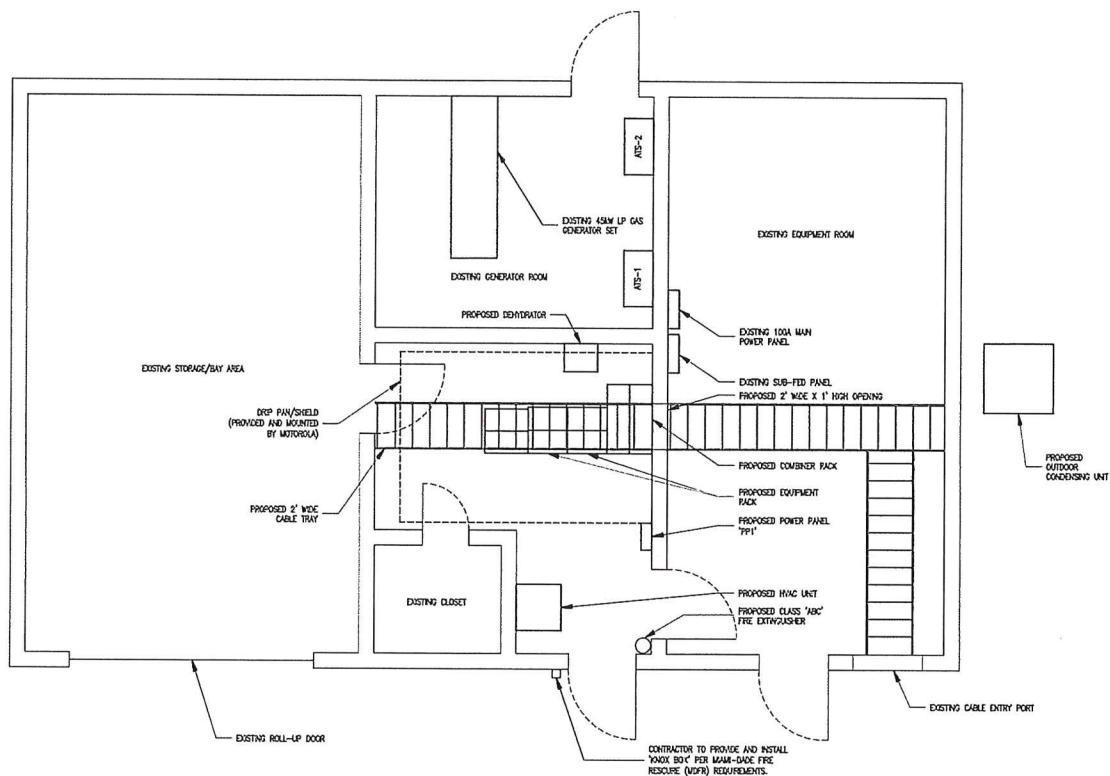
wood.

WOOD ENGINEERING AND ARCHITECTURE, INC.
1175 E. 60th AVENUE, SUITE 100
MIAMI, FL 33141
PHONE: (772) 421-5400 FAX: (772) 421-5400
FLORIDA CERTIFICATE OF AUTHORIZATION #0202

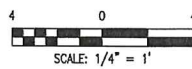
NO.	DATE	REVISION
A	07/23/18	LEASE EXHIBIT
B	11/27/19	ISSUED FOR PRELIMINARY
C	02/28/19	ISSUED FOR PRELIMINARY
D	07/02/19	ISSUED FOR PRELIMINARY
E	11/02/19	ISSUED FOR PRELIMINARY
F	07/02/21	ISSUED FOR PRELIMINARY
G	08/18/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

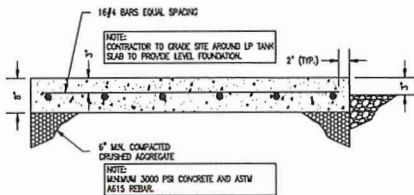
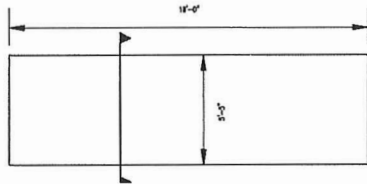
C3
FLOOR
LAYOUT PLAN



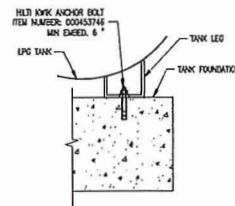
1
C3 FLOOR LAYOUT PLAN
SCALE: 1/4" = 1'-0"



NOTE: EXISTING HVAC SYSTEM TO REMAIN



1 ABOVEGROUND LPG FUEL TANK FOUNDATION
SCALE: N.T.S.



2 FUEL TANK MOUNTING DETAIL
SCALE: N.T.S.



MOTOROLA
8000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 6122-18-GSM
DRAWN: J.B. OLIVER CHECKED: F.D. SPAN
APPROVED: F.D. SPAN DATE: 12/07/15

wood.

WOOD DEVELOPMENT AND INFRASTRUCTURE, INC.
1075 E. 60TH AVENUE, SUITE 100
HIALEAH, FL 33018
PHONE: (772) 421-3400 FAX: (772) 421-3400
FLORIDA CERTIFICATE OF AUTHORIZATION #002

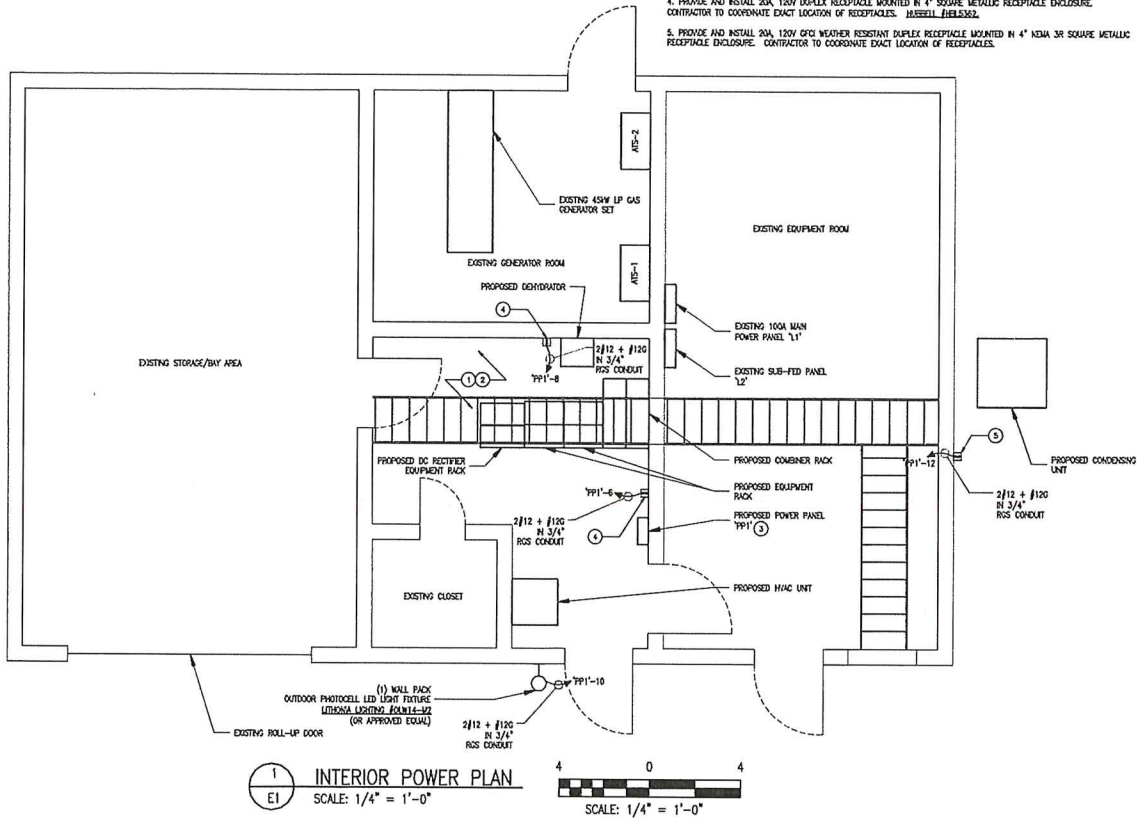
NO.	DATE	REVISION
A	07/23/15	LEASE EXHIBIT
B	10/17/15	ISSUED FOR PRELIMINARY
C	07/28/15	ISSUED FOR PRELIMINARY
D	07/07/15	ISSUED FOR PRELIMINARY
E	11/07/15	ISSUED FOR PRELIMINARY
F	07/29/21	ISSUED FOR PRELIMINARY
G	08/18/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

C4
FOUNDATION DETAILS

FLAG NOTES THIS SHEET: (XX)

1. SEE DETAIL 2/13 FOR WALL PENETRATION DETAIL.
2. SEE ELECTRICAL SINGLE LINE DIAGRAM, SHEET E4, FOR ADDITIONAL WIRING INTERCONNECTIONS NOT SHOWN HERE FOR CLARITY.
3. PROVIDE AND INSTALL PANEL TYP1 240V, 100A MCB, 20P, 18, 34, SQUARE D 8001204100 LOAD CENTER. WALL MOUNT WITH 1811 CONCRETE/MASONRY ANCHORS AS REQUIRED AT 6'-6" ABOVE FINISHED FLOOR TO TOP OF PANEL.
4. PROVIDE AND INSTALL 20A, 120V DUPLEX RECEPTACLE MOUNTED IN 4" SQUARE METALLIC RECEPTACLE ENCLOSURE. CONTRACTOR TO COORDINATE EXACT LOCATION OF RECEPTACLES. **MURKELL #4453462**
5. PROVIDE AND INSTALL 20A, 120V GFCI WEATHER RESISTANT DUPLEX RECEPTACLE MOUNTED IN 4" NEMA 3R SQUARE METALLIC RECEPTACLE ENCLOSURE. CONTRACTOR TO COORDINATE EXACT LOCATION OF RECEPTACLES.



MOTOROLA
8000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 6166-18-0834
DRAWN: J. GLIER CHECKED: M.A. GRIFFIN
APPROVED: M.A. GRIFFIN DATE: 1/27/21

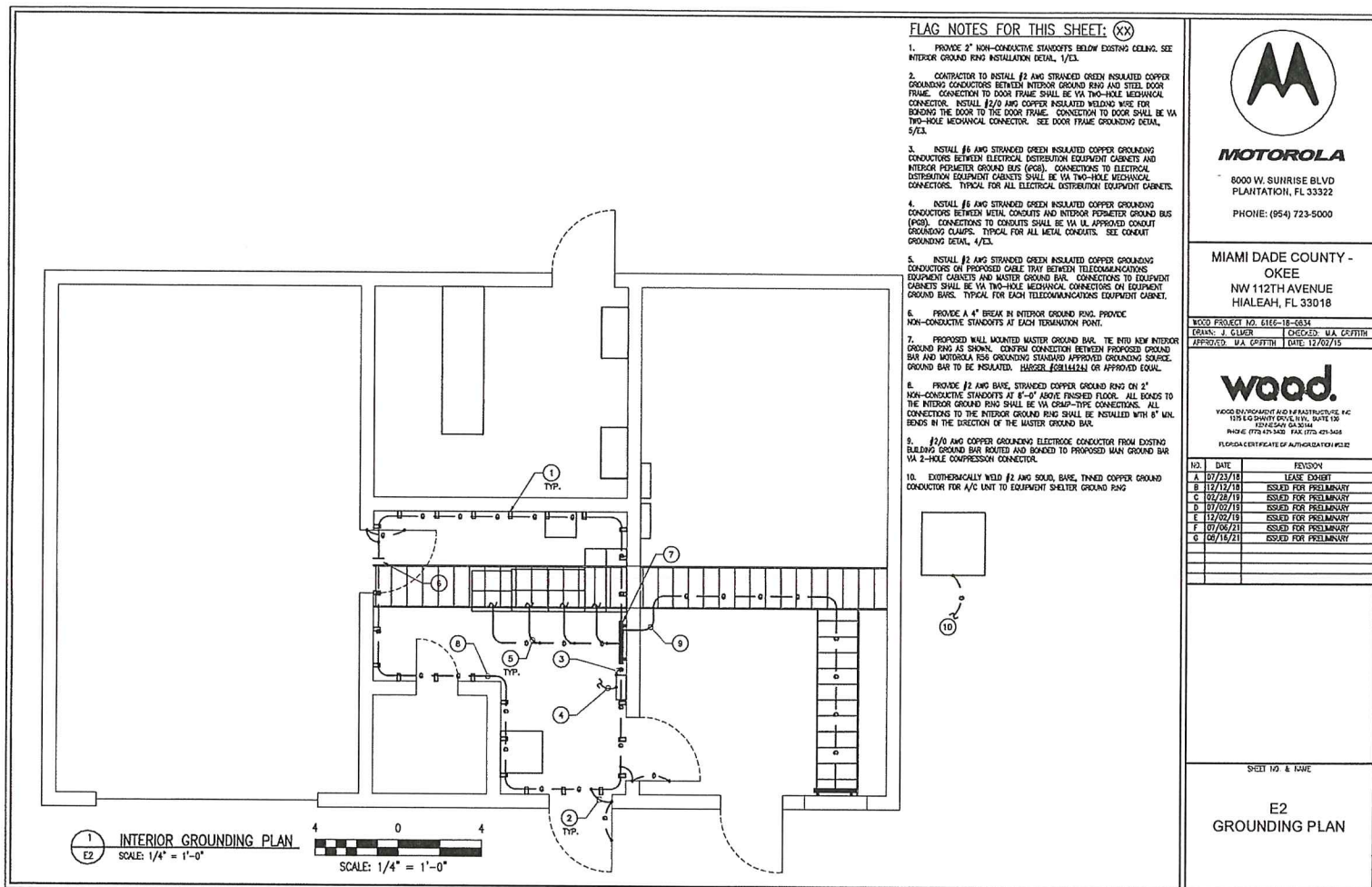
wood.

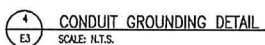
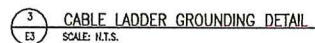
WOOD DESIGN/PROGRAM AND INFRASTRUCTURE, INC.
1175 E. D. DUNN DRIVE, SUITE 100
KENDALL, FL 33161
PH: (772) 471-3400 FAX: (772) 471-3401
FLORIDA CERTIFICATE OF AUTHORIZATION #0242

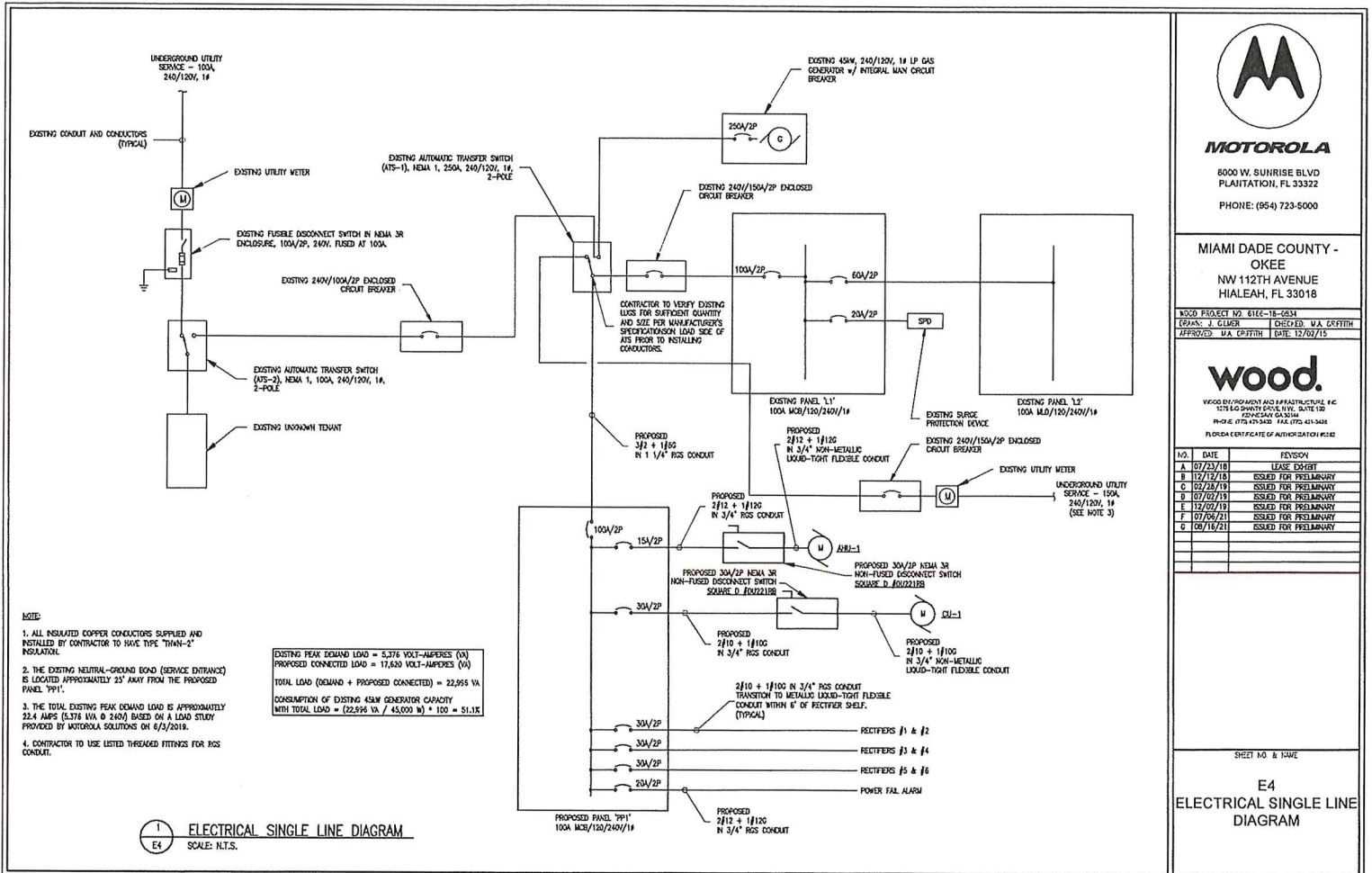
NO.	DATE	REVISION
A	07/23/19	REVISION
B	12/17/19	ISSUED FOR PRELIMINARY
C	02/28/19	ISSUED FOR PRELIMINARY
D	07/07/19	ISSUED FOR PRELIMINARY
E	12/07/19	ISSUED FOR PRELIMINARY
F	07/09/21	ISSUED FOR PRELIMINARY
G	08/18/21	ISSUED FOR PRELIMINARY

SHEET NO. 8 HAVE

E1
INTERIOR POWER
PLAN







MOTOROLA
 8000 W. SUNRISE BLVD
 PLANTATION, FL 33322
 PHONE: (954) 723-5000

MIAMI DADE COUNTY -
 OKEE
 NW 112TH AVENUE
 HIALEAH, FL 33018

WOOD PROJECT NO. 8162-18-034
 DRAWN: J. CLIVER CHECKED: W.A. CRITTEH
 APPROVED: W.A. CRITTEH DATE: 12/07/15

wood.

WOOD ENGINEERING AND ARCHITECTURE, P.C.
 1275 E. G. SWANBY DRIVE, SUITE 120
 FORT MYERS, FL 33904
 PHONE: (888) 427-3400 FAX: (888) 427-3400
 FLORIDA CERTIFICATE OF AUTHORIZATION #2582

NO.	DATE	REVISION
A	07/23/18	LEASE EXHIBIT
B	12/12/15	ISSUED FOR PRELIMINARY
C	02/25/19	ISSUED FOR PRELIMINARY
D	07/07/19	ISSUED FOR PRELIMINARY
E	12/07/19	ISSUED FOR PRELIMINARY
F	07/25/21	ISSUED FOR PRELIMINARY
G	08/15/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

E4
ELECTRICAL SINGLE LINE
DIAGRAM

PROPOSED PANEL "PP1"

LOCATION MOTOROLA EQUIPMENT ROOM INSTALLATION SURFACE MAIN LUGS 100A
 RATINGS 100 AMPS 240/120 VOLTS 1 PH 3 WIRE, 60 HZ. GRD. BAR STD
 SHORT CKT. INTERRUPTING RATING 22 KAC RMS SYMM. AMPS MAIN CKT. BREAKER 100 AMPS

DESCRIPTION	#A VA	#B VA	CB AMPS	CT A	A B		CT B	CB AMPS	#B VA	DESCRIPTION
AKU-1	278		15/2	1			2	30/2	2244	OU-1
		276		3					2244	
RECTIFIERS #1 to #2	2000		30/2	5			6	20/1	180	RECTIFIABLE
		2000		7			8	20/1	180	RECTIFIABLE
RECTIFIERS #3 to #4	2000		30/2	9			10	20/1	18	OUTDOOR LIGHT
		2000		11			12	20/1	180	OUTDOOR GFD RECTIFIABLE
RECTIFIERS #5 to #6	2000		30/2	13			4	-	-	SPACE
		2000		15			16	-	-	SPACE
SPACE	-	-	-	17			18	20/1	100	POWER FAIL ALARM
SPACE	-	-	-	19			20	-	100	
TOTALS	6276	6276						2542	2704	TOTALS
TOTAL CONNECTED LOADS				#A AMPS:		#A AMPS:		73.5		
				#B KVA:		#B AMPS:		74.8		
				TOTAL KVA:		TOTAL AMPERAGE:		74.2		



MOTOROLA
 8000 W. SUHRSE BLVD
 PLANTATION, FL 33322
 PHONE: (954) 723-5000

MIAMI DADE COUNTY -
 OKEE
 NW 112TH AVENUE
 HIALEAH, FL 33018

WOOD PROJECT NO. 6162-18-0034
 DESIGNED BY: J. CLARK CHECKED BY: W.A. CRITTON
 APPROVED BY: W.A. CRITTON DATE: 12/02/15

wood.
 WOOD ENGINEERING AND ARCHITECTURE, INC.
 1275 E. G. SWARTZ DRIVE, SUITE 100
 KENNESAW, GA 30144
 PHONE: (770) 421-3420 FAX: (770) 421-3428
 LICENSE: CERTIFICATE OF AUTHORIZATION #2332

NO.	DATE	REVISION
A	07/23/18	LEASE DOBERT
B	12/12/18	ISSUED FOR PRELIMINARY
C	02/28/19	ISSUED FOR PRELIMINARY
D	07/02/19	ISSUED FOR PRELIMINARY
E	12/02/19	ISSUED FOR PRELIMINARY
F	02/05/21	ISSUED FOR PRELIMINARY
G	02/18/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

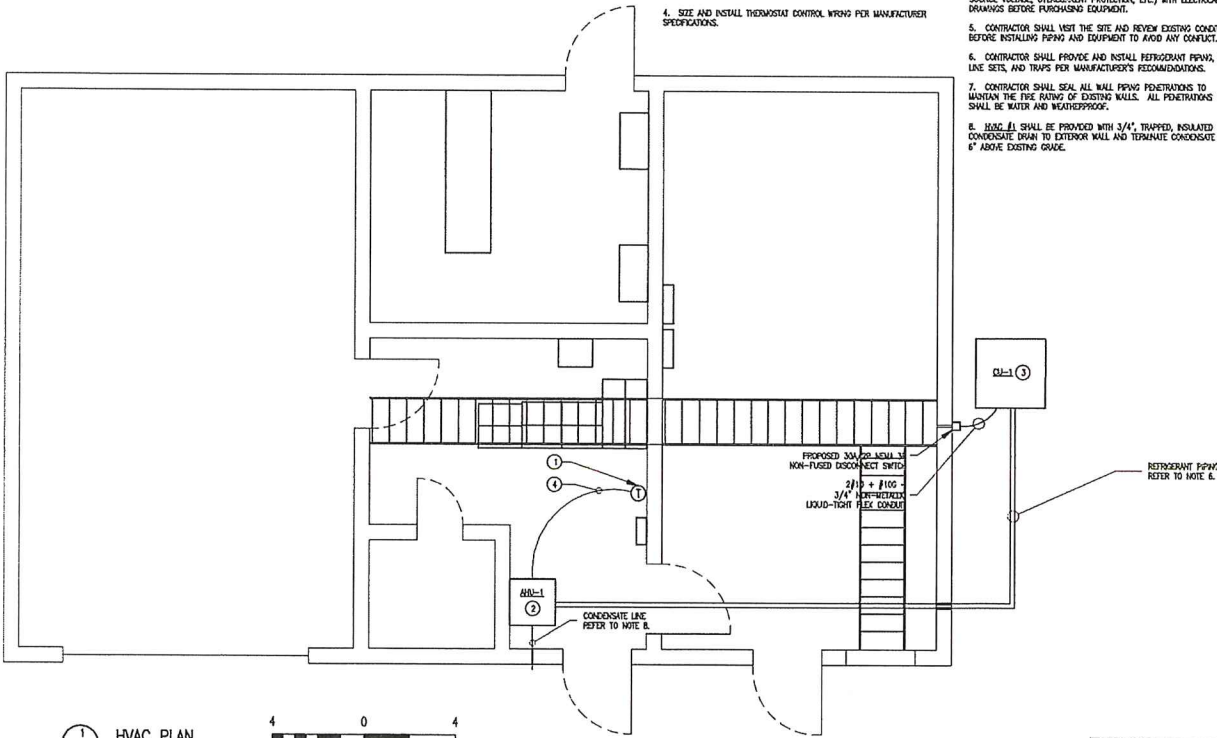
E5
 PANEL SCHEDULES

FLAG NOTES THIS SHEET: ©

1. PROVIDE AND INSTALL THERMOSTAT AT 5'-0" WHITE-BODIED DIVERSON 1P50N-444 MECHANICAL HEATING AND COOLING THERMOSTAT OR APPROVED EQUAL.
2. PROVIDE AND INSTALL MOTOROLA SPECIFIED 3-TON HVAC INDOOR EVAPORATOR/BLOWER FLOOR-MOUNT UNIT, LOCATED AS SHOWN/AS NOTED OR APPROVED EQUAL. MOUNT PER MANUFACTURER'S SPECIFICATIONS.
3. PROVIDE AND INSTALL MOTOROLA SPECIFIED 3-TON CONDENSING UNIT LOCATED AS SHOWN/AS NOTED OR APPROVED EQUAL. MOUNT PER MANUFACTURER'S SPECIFICATIONS. SIZE OF UNIT BASED ON EQUIPMENT INFORMATION AND SIZE RECOMMENDATIONS PROVIDED BY MOTOROLA.
4. SIZE AND INSTALL THERMOSTAT CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS.

MECHANICAL GENERAL NOTES:

1. PROVIDE LABOR, MATERIAL, PRODUCTS SERVICES FOR INSTALLATION OF A COMPLETE AND FUNCTIONAL HVAC SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED AND NOT SPECIFICALLY CALLED OUT.
2. INSTALL ALL WORK TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES, LAWS AND ORDINANCES.
3. INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS.
4. CONTRACTOR SHALL VERIFY ALL ELECTRICAL CHARACTERISTICS (i.e. SOURCE VOLTAGE, OVERCURRENT PROTECTION, ETC.) WITH ELECTRICAL DRIVANOS BEFORE PURCHASING EQUIPMENT.
5. CONTRACTOR SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS BEFORE INSTALLING PIPING AND EQUIPMENT TO AVOID ANY CONFLICT.
6. CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING, LONG LINE SETS, AND TRAPS PER MANUFACTURER'S RECOMMENDATIONS.
7. CONTRACTOR SHALL SEAL ALL WALL PIPING PENETRATIONS TO MAINTAIN THE FIRE RATING OF EXISTING WALLS. ALL PENETRATIONS SHALL BE WATER AND WEATHERPROOF.
8. HANG #1 SHALL BE PROVIDED WITH 3/4" TRAPPED, INSULATED CONDENSATE DRAIN TO EXTERIOR WALL AND TERMINATE CONDENSATE LINE 6" ABOVE EXISTING GRADE.



1 HVAC PLAN
E6
SCALE: 1/4" = 1'-0"

4 0 4
SCALE: 1/4" = 1'-0"

NOTE:
EXISTING HVAC SYSTEM TO REMAIN



MOTOROLA

8000 W. SUHRRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 6165-18-034
DRAWN: J. GILVER CHECKED: W.A. CUFFIN
APPROVED: W.A. CUFFIN DATE: 12/07/15

wood.

WOOD ENGINEERING AND ARCHITECTURE, INC.
1275 E.G. SHAW DRIVE, SUITE 100
DENVER, CO 80202
PH: 303.733.4400 FAX: 303.733.4400
FLORIDA LICENSE NO. 12000

NO.	DATE	REVISION
A	07/23/18	LEASE EXHIBIT
B	12/17/19	ISSUED FOR PRELIMINARY
C	07/28/19	ISSUED FOR PRELIMINARY
D	07/07/19	ISSUED FOR PRELIMINARY
E	11/29/19	ISSUED FOR PRELIMINARY
F	01/24/21	ISSUED FOR PRELIMINARY
G	08/16/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

E6
HVAC PLAN



MOTOROLA

6000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 6165-18-08M
DRAWN: J. CLERK CHECKED: M.A. GRIFFIN
APPROVED: M.A. GRIFFIN DATE: 12/07/15

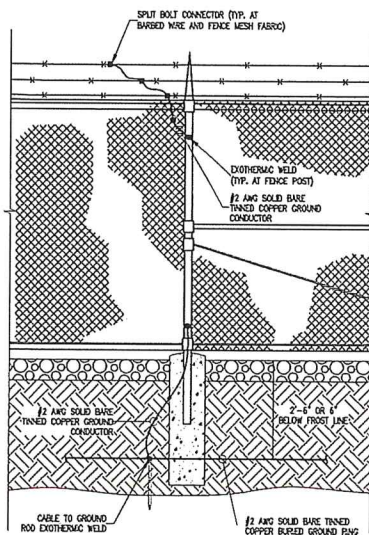
wood.

WOOD BY DESIGN AND INFRASTRUCTURE, LLC
1175 E. 95TH AVENUE, SUITE 100
DEERFIELD BEACH, FL 33441
PHONE: (561) 431-3400 FAX: (561) 431-3405
FLORIDA CERTIFICATE OF AUTHORIZATION #0382

NO.	DATE	REVISION
A	07/23/18	LEASE EXHIBIT
B	12/12/19	ISSUED FOR PRELIMINARY
C	02/28/19	ISSUED FOR PRELIMINARY
D	07/02/19	ISSUED FOR PRELIMINARY
E	12/02/19	ISSUED FOR PRELIMINARY
F	07/09/21	ISSUED FOR PRELIMINARY
G	08/19/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

E7
FENCE
GROUNDING DETAILS

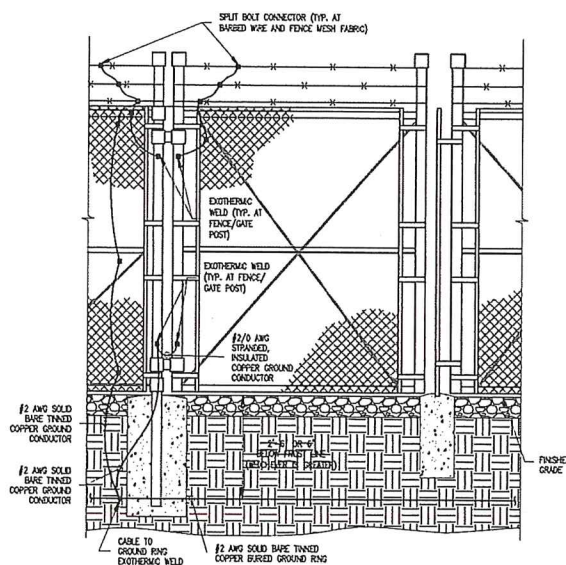


VERTICAL POST CONNECTED TO RING

NOTES:

1. EACH CORNER FENCE POST SHALL BE BONDED TO THE NEAREST LOCATION OF THE BUILDING GROUND RING USING #2 AWG OR LARGER BARE, TINNED COPPER CONDUCTORS. THE GROUNDING CONDUCTORS SHALL BE BURIED TO THE SAME DEPTH AS THE BUILDING GROUND RING.
2. THE FENCE FABRIC NEAR EACH CORNER BONDING POINT SHALL BE BONDED TO THE BUILDING GROUND RING. THE FENCE FABRIC SHALL BE MADE IN AT LEAST THREE POINT DOWN THE FENCE FABRIC.

1 FENCE GROUNDING DETAIL
SCALE: N.T.S.

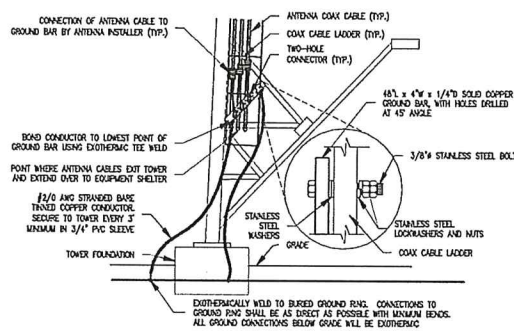


VERTICAL FENCE/GATE POST BONDED TO GROUND RING

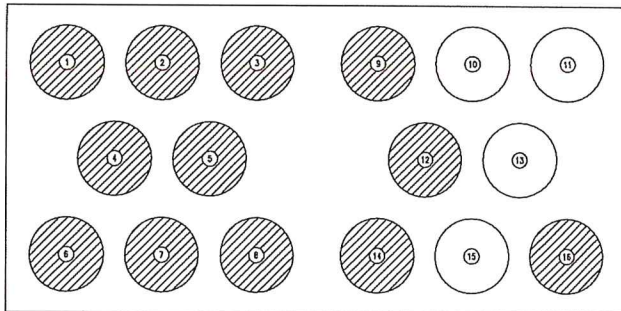
NOTES:

1. EACH CORNER FENCE POST SHALL BE BONDED TO THE NEAREST LOCATION OF THE BUILDING GROUND RING USING #2 AWG OR LARGER BARE, TINNED COPPER CONDUCTORS. THE GROUNDING CONDUCTORS SHALL BE BURIED TO THE SAME DEPTH AS THE BUILDING GROUND RING.
2. THE FENCE FABRIC NEAR EACH CORNER BONDING POINT SHALL BE BONDED TO THE BUILDING GROUND RING. THE FENCE FABRIC SHALL BE MADE IN AT LEAST THREE POINT DOWN THE FENCE FABRIC.
3. ALL GATE POSTS SHALL BE BONDED TO THE NEAREST LOCATION OF THE BUILDING GROUND RING USING #2 AWG OR LARGER BARE, TINNED COPPER CONDUCTORS.

2 GATE GROUNDING DETAIL
SCALE: N.T.S.



1 TOWER BOTTOM GROUND BAR MOUNTING DETAIL
SCALE: N.T.S.



2 EXTERIOR VIEW - CABLE ENTRY PORT
SCALE: N.T.S.

DISTING CABLE IDENTIFICATION:

1. ELLIPTICAL WAVEGUIDE (COORDINATE W/ANTHUR - MAIN) - ENP63-57W
2. ELLIPTICAL WAVEGUIDE (COORDINATE W/ANTHUR - DIVERSITY) - ENP63-57W
3. (1) 1-1/2" RGS CONDUIT WITH TWO (2) CAT 6 CABLES FOR CCTV CAMERAS
4. ELLIPTICAL WAVEGUIDE (CORAL REEF - MAIN) - ENP63-57W
5. ELLIPTICAL WAVEGUIDE (CORAL REEF - DIVERSITY) - ENP63-57W
6. 7/8" COAX (UNKNOWNS)
7. 7/8" COAX (47 MHz - R)
8. 7/8" COAX (47 MHz - T)
9. HMM RADIO ANTENNA
10. EMPTY PORT - (TO BE USED BY MIAMI-DADE FIRE RESCUE)
11. EMPTY PORT - (TO BE USED BY MIAMI-DADE FIRE RESCUE)
12. 1-1/4" COAX (LHF PATROL @ 170°)
13. EMPTY PORT - (TO BE USED BY MIAMI-DADE FIRE RESCUE)
14. 1-1/4" COAX (LHF MAINTENANCE @ 250°)
15. EMPTY PORT - (TO BE USED BY MIAMI-DADE FIRE RESCUE)
16. TOWER LIGHTS



MOTOROLA

6000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 8166-18-05M
DRAWN: J. GLIER
APPROVED: M.A. GRIFFIN DATE: 12/02/15

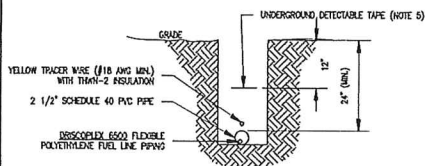
wood.

WOOD ENGINEERING AND ARCHITECTURE, INC.
17145 UNIVERSITY BLVD., SUITE 100
FORT MYERS, FL 33907
P.O. BOX 17145 FORT MYERS, FL 33907
FLORIDA CERTIFICATE OF AUTHORIZATION #0002

NO.	DATE	REVISION
A	07/23/16	LEAD EXHIBIT
B	12/12/16	ISSUED FOR PRELIMINARY
C	02/29/17	ISSUED FOR PRELIMINARY
D	07/07/17	ISSUED FOR PRELIMINARY
E	12/07/17	ISSUED FOR PRELIMINARY
F	07/06/18	ISSUED FOR PRELIMINARY
G	08/15/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

E8
COAX
GROUNDING DETAILS

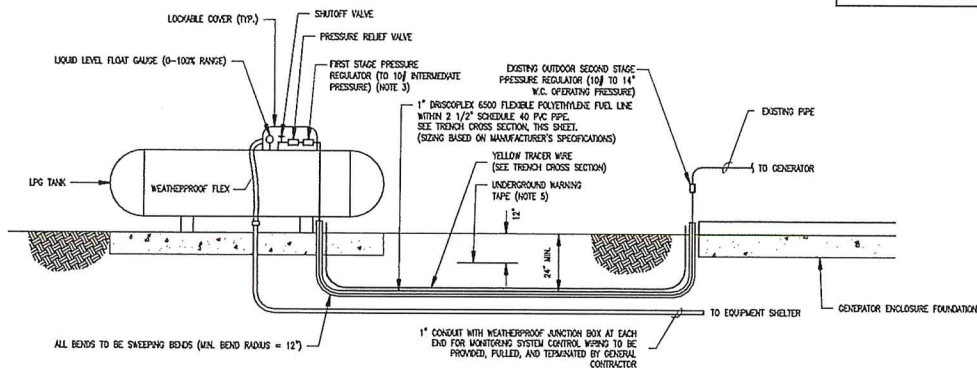


TRENCH CROSS SECTION
SCALE: N.T.S.

NOTES:

1. ALL WORK AND MATERIALS TO COMPLY WITH NEPA 58, NFPA 54, FLORIDA BUILDING CODES, LOCAL BUILDING CODES, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND OWNER'S SPECIFIC REQUIREMENTS. IF CONFLICTS EXIST BETWEEN THESE DOCUMENTS, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS.
2. ALL COPPER FITTINGS SHALL BE BRAZED JOINTS.
3. HIGH PRESSURE REGULATOR SHALL DELIVER SUFFICIENT CAPACITY AT 10 PS TO MEET GENERATOR MANUFACTURER CAPACITY REQUIREMENTS AT 5"-14" H.Q.
4. COORDINATE PIPE SIZE PER TANK SUPPLIER REQUIREMENTS.
5. UNDERGROUND YELLOW PEISCOQ UNDERGROUND DETECTABLE TAPE OR EQUIVALENT.
6. CONTRACTOR SHALL MAKE FINAL PIPING CONNECTIONS TO THE GENERATOR MANUFACTURER PROVIDED PIPING. PROVIDE EPOXY SEAL-OUTS IN FUEL TANK ALARM PENETRATION AND IN THE GENERATOR.
7. SITE DEVELOPMENT CONTRACTOR SHALL COORDINATE THE EXACT QUANTITY/SIZE OF CONDUITORS WITH GENERATOR SUPPLIER FROM FUEL TANK WARNING EQUIPMENT INTO BUILDING TO THE ALARM PUNCH BLOCK.
8. ALL GAS PIPING TERMINATIONS ABOVEGROUND SHALL BE WITH AN ANODELESS PRESS OR SERVICE HEAD ADAPTOR RISER THAT ARE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS.

CONTRACTOR SHALL COORDINATE AND VERIFY PIPE SIZE AND REGULATORS WITH LP TANK MANUFACTURER AND GENERATOR MANUFACTURER PRIOR TO PURCHASE AND INSTALLATION.



LPG TANK AND PIPING INSTALLATION DETAILS
SCALE: N.T.S.



MOTOROLA

8000 W. SUNRISE BLVD
PLANTATION, FL 33322
PHONE: (954) 723-5000

MIAMI DADE COUNTY -
OKEE
NW 112TH AVENUE
HIALEAH, FL 33018

WOOD PROJECT NO. 6164-18-C&M
DRAWN: J. GLIER CHECKED: M.A. GRIFFIN
APPROVED: M.A. GRIFFIN DATE: 12/07/15

wood.

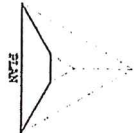
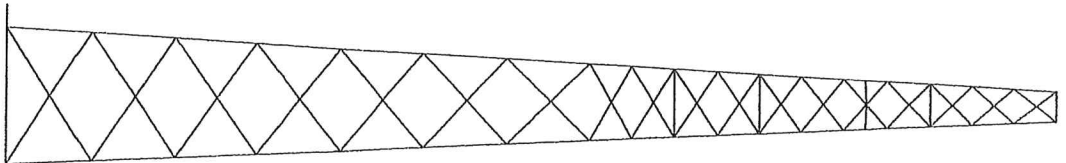
15200 BAYVIEW BLVD. #100
1175 G. GANTY BLVD. SUITE 130
DUNEDIN, FL 33514
PHONE: (772) 431-3400 FAX: (772) 431-3408
FLORIDA CERTIFICATE OF AUTHORIZATION #3232

NO.	DATE	REVISION
A	07/23/18	LEASE EXHIBIT
B	12/12/18	ISSUED FOR PRELIMINARY
C	02/26/19	ISSUED FOR PRELIMINARY
D	07/02/19	ISSUED FOR PRELIMINARY
E	12/02/19	ISSUED FOR PRELIMINARY
F	07/05/21	ISSUED FOR PRELIMINARY
G	08/19/21	ISSUED FOR PRELIMINARY

SHEET NO. & NAME

P1
PIPING SCHEMATIC

Face Width	32.0'	7.0'
Panel height # Panels	7 @ 20.0'	11 @ 10.0'
	0.0'	20.0'
	40.0'	
	60.0'	
	80.0'	
	100.0'	
	120.0'	
	140.0'	
	160.0'	
	180.0'	
	200.0'	
	220.0'	
	240.0'	
	260.0'	



- NOTES:
1. ANTENNAS ARE A POWER SOURCE ONLY.
 2. THE TOWER IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 3. THE TOWER IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 4. THE ANTENNAS 1 AND 2 ARE ACTIVE ANTENNAS.
 5. THE ANTENNA 3 IS A 6' HP ANTENNA.
 6. THE ANT. LIST SHOWS THE PROPOSED ANTENNAS.

NO	ELEV	ANTENNA	DC-LINE
1	150 FT.	ANT-COM-100 6' SA	7/8"
2	145 FT.	ANT-COM-100 6' SA	1-5/8"
3	105 FT.	SSC-W-10002 DISH ANT	EX-13
ANTENNAS:			
1	150 FT.	120 degrees	
2	145 FT.	120 degrees	
3	105 FT.	51 degrees	

Pate Engineering, Inc.

13540 N. Florida Ave., Suite 203 Tampa, Florida 33613

Phone: (813) 960-0002

Client: MOTOLOIA SOLUTIONS

Location: OREGON

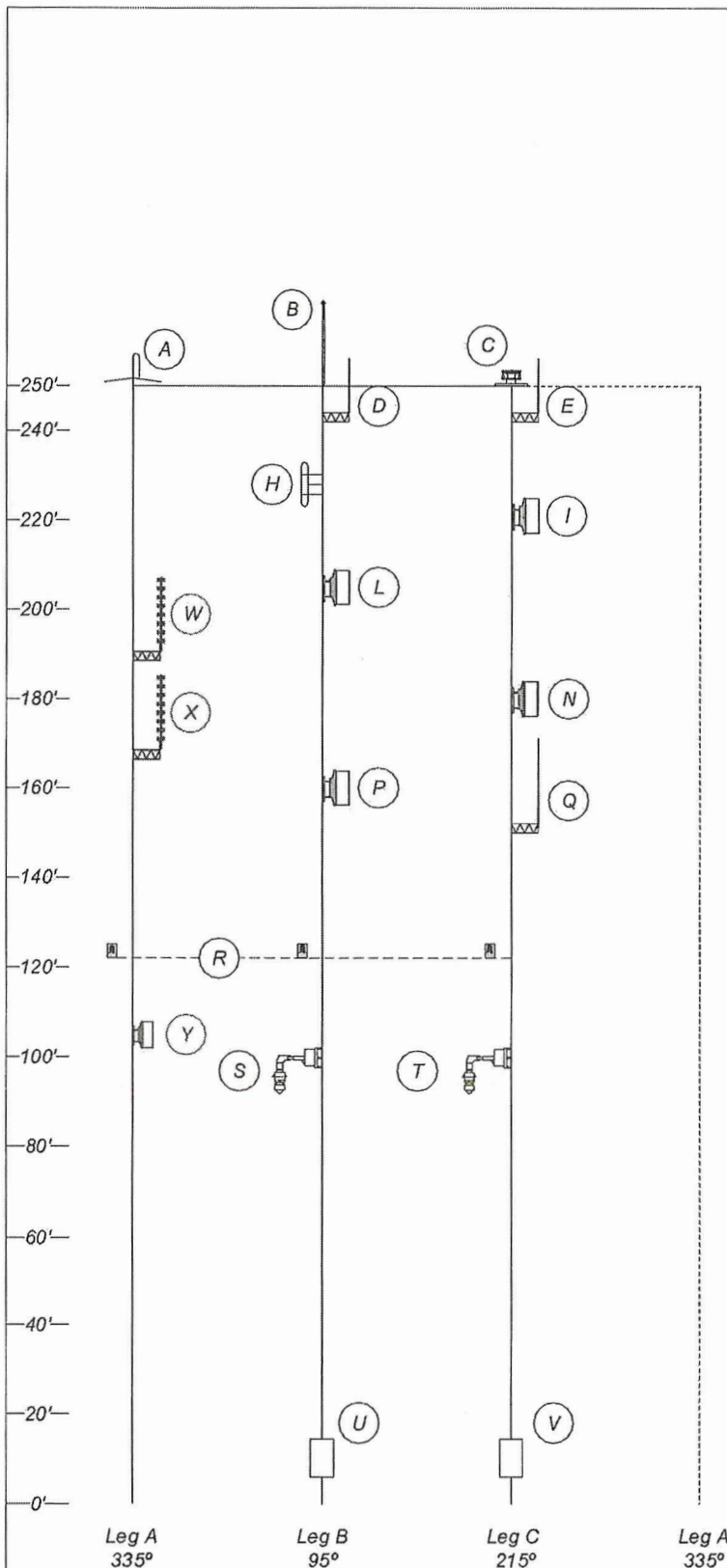
Standard: TIA-222-G

Fax: (813) 264-2605

Job No: 18-154 B Date: 30 MAY 2018

Total Height: 250.00' Tower Height: 250.00'

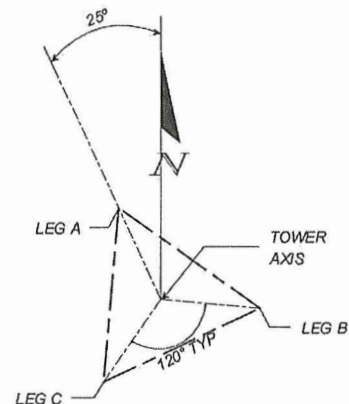
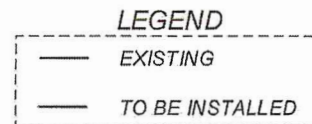
Design Wind & Ice: 144 MPH (NO ICE)



ID	MODEL	LEG/ FACE	MTG. HGT.	TX LINE	AZIM.	NOTES
A	DB201-A	A	250' (BASE)	7/8"	-	-
B	AIR TERMINAL	B	250' (BASE)	-	-	-
C	TECHNOSTROBEE1- LED-B-HYBRID-48V- SNMP-3M-DS DUAL LED FLASH HEAD	C	250' (BASE)	-	-	-
D	DB408	B	244' (BASE)	1-1/4"	-	-
H	COMPROD 531-70	B	228' (C.L.)	7/8"	-	-
I	DA 8 - W57A	C	221' (C.L.)	EU63	180.5°	-
L	DA 8 - W57A	B	205' (C.L.)	EU63	32.1°	-
N	DA 8 - W57A	C	180' (C.L.)	EU63	180.5°	-
P	DA 8 - W57A	B	160' (C.L.)	EU63	32.1°	-
Q	ASP-705K	C	151' (BASE)	1-1/4"	-	-
R	(3) LED SIDE MARKERS	A,B,C	122' (BASE)	-	-	-
S	AXIS CCTV PTZ CAMERA WITH LOWERING DEVICE	B	100' (BASE)	(2) 1-1/2" W/ CAT 6	-	-
T	AXIS CCTV PTZ CAMERA WITH LOWERING DEVICE	C	100' (C.L.)	(2) 1-1/2" W/ CAT 6	-	-
U	LOWERING DEVICE SECURITY BOX	B	5' (BASE)	-	-	-
V	LOWERING DEVICE SECURITY BOX	C	5' (BASE)	-	-	-
W	ALIVE ATC-GD4V80 W/ 6-FT SIDE ARM	A	190' (BASE)	7/8"	-	1
X	ALIVE ATC-GD4V80 W/ 6-FT SIDE ARM	A	168' (BASE)	1-5/8"	-	1
Y	SBX6-W60CC2 6-FT DISH	A	105' (C.L.)	EW63	-	1

NOTES:

1. ANTENNA FOR MIAMI-DADE FIRE RESCUE.



FDOT FLORIDA DEPARTMENT
OF TRANSPORTATION

SIZE
8.5"x11"

LAST DATE EDITED
7/9/2020

DRAWING TITLE
Okeechobee
Tower Loading Diagram

REV
0

DRAWN BY:

FILE PATH

https://atkins-my.sharepoint.com/personal/SEAN_KANE_ATKINSGLOBAL_COM/Documents/Documents/OKEECHOBEE_PROPOSEDTOWERLOADINGDIAGRAM_20200615_VSDX

ISSUED

SCALE NTS

FIGURE

PAGE