

Town Hall Commission Chambers 247 Edwards Lane Palm Beach Shores, FL 33404

#### DEVELOPMENT REVIEW COMMITTEE MEETING AGENDA

Chairman – Mayor Alan Fiers Planning and Zoning Board Representative – Jerald Cohn

Town Attorney Mitty Barnard Zoning Official Josh Nichols Town Engineer Rob Rennebaum Resident Member Bob Stanton Town Clerk, Jude M. Goudreau Town Fire Chief Trevor Steedman

### **Meeting Information:**

https://townofpalmbeachshores.my.webex.com/townofpalmbeachshores.my/j.php?MTID=m62c9509ff 58114853e01d49646a23fa9 Meeting number: 2633 694 1075 Password: 0712 Join by phone \_+1-408-418-9388 United States Toll Access code: 2633 694 1075

# 1. CALL TO ORDER

### 2. MISCELLANEOUS BUSINESS

- a. **SPR22-16/AAR22-16**, Mayan Towers Condominium 1, Inc., as Owner of 125 S. Ocean Drive, and DISH Wireless, LLC as Applicant, request Special Exception use approval to allow for a "telecommunications antenna" on the rooftop of the existing condominium building.
- b. **SPR22-17/AAR22-17,** NCJ Partners, LLC, as Owner of the vacant lot on Sandal Lane (131) with PCN 54-43-42-27-04-000-3430, requests Site Plan and Architectural & Aesthetic Approval to construct a new single-story residence with pool, pool deck and associated landscaping on the property.

### 3. ADJOURNMENT

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision made by the Town Commission with respect to any matter considered at this meeting or hearing, such interested person will need a record of the proceedings, and for such purpose may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based. The meeting/hearing will be continued from day to day, time to time, place to place, as may be found necessary during the aforesaid meeting. NACCORDANCE WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), THIS DOCUMENT CAN BE MADE AVAILABLE IN AN ALTERNATE FORMAT (LARGE PRINT) UPON REQUEST AND SPECIAL ACCOMODATIONS CAN BE PROVIDED UPON REQUEST WITH THREE (3) DAYS ADVANCE NOTICE. FOR HEARING ASSISTANCE: If any person wishes to use a hearing device, please contact the Town Clerk.



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# PROJECT NAME: MIMIA00378A

# SUBMITTAL CHECKLIST

Reviewed By:	
Date:	
Fee Paid:	
Town Receipt No:	

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All submittals <u>must</u> include ten (10) paper sets (folded & sorted into complete packet sets) and an electronic copy (on cd or thumb drive) of the following:

Completed <b>Development</b> Ap	oplication (complete all	l fields, use N/A	when not applicable).
1 1 1		/	11 /

X Architectural & Aesthetic Review Request (pg. 11, all submittals)

Variance	Request	(ng	13	if ar	nlica	hle)
variance	Request	(pg.	15,	II al	pnca	ibie)

- x Special Exception Request (pg. 14, if applicable)
- **Boundary Survey** (Dated to within 6 months of application submission).
- x Signed and Sealed Schematics depicting building on site, setbacks, grading, drainage and elevations, as well as the relationship of the site to the neighboring sites (e.g. Site Plan, Drainage and Grading Plan, Roof Plan, Landscape Plan, Elevations).

**X Tabular Data** showing compliance with all lot coverage, floor area, building height, grade and landscaping requirements.

# SITE PLAN CHECKLIST

Please be sure to include the following on the Site Plan:

x Depict and label 10' Town Strip (front of property) and 5' utility easement (rear of property), and all other applicable easements.

x Depict and label all setbacks and Code required setback lines (front, rear, side, pool, etc.).

X Provide a tabular data table reflecting data from the tables on pgs. 7-8 of this development application.

x For renovations and/or additions, please shade proposed addition area(s) to differentiate from existing.

x Include all a/c equipment, pool equipment and emergency generators and label as proposed or existing.

x Ensure that beam height and top of roof are dimensioned on all elevation drawings submitted.

Provide a construction schedule for the proposed project (including calendar dates).

### LANDSCAPE PLAN CHECKLIST

Please be sure to include the following on the Landscape Plan:

x	Depict and label the 10'	Town Strin	(front of	property) and 5	'utility easement	(rear of property	)
A	Depict and laber the 10	rown Surp	(nom or	property) and 5	utility easement	(lear of property	J۰

- x Include and label both existing (to remain) and proposed landscaping on the subject property.
  - Provide a species legend/key including the height of all landscaping to be provided at installation.
  - Ensure that the requirements for 10' Town Strip and front yard trees are met.
  - For multi-story construction, ensure that the requirements for privacy screening are met.

Ensure screening is provided for all ground mounted mechanical equipment (e.g. a/c compressors, pool equipment, emergency generators).

# NOTE: Checklists are <u>not</u> comprehensive. They are provided solely to remind Applicants to include items commonly omitted from plans submitted to the Town.

Cover Page



**DEVELOPMENT APPLICATION** TOWN OF PALM BEACH SHORES 247 EDWARDS LANE PALM BEACH SHORES, FL 33404 (561) 844-3457

OWNER/APPLICANT: DISH Wireless, LLC

PROJECT ADDRESS: 125 S. Ocean Ave., Palm Beach Shores, FL 33404

APPLICATION NO.:\_\_\_\_\_ SUBMITTAL DATE:\_\_\_\_\_

# **<u>TYPE OF APPROVAL(S) REOUESTED</u>** (Check box(es) ☑)

ADMINISTRATIVE APPEAL	N/A	SITE PLAN MODIFICATION (14-62)	N/A
ARCHITECTURAL AND AESTHETIC REVIEW (Pf. 14-86)	N/A	SITE PLAN REVIEW (14-62)	N/A
COMPREHENSIVE PLAN AMENDMENT (Pf. 17.3(B))	N/A	SPECIAL EXCEPTION (Pf. 15.8)	Х
PLAT APPROVAL	N/A	VARIANCE (Pf. 15.4)	N/A
REZONING (Pf. 17.3(B))	N/A	ZONING TEXT AMENDMENT (Pf. 17.3(B))	N/A

	PROPERTY OWNER(S)	APPLICANT (If different than Owner(s))
NAME:	Mayan Towers Condominium l, Inc.	DISH Wireless, LLC
ADDRESS:	125 S. Ocean Ave., Palm Beach Shores, FL 33404	5906 Breckenridge Pkwy.,Suite A, Tampa, FL 33610
PHONE:	(561) 844-4550	(980) 202-5553
EMAIL:	mayantowerssouth@4hassociationmanagement.com	bjones@tepgroup.net

	AGENT (If different than Owner(s))	CURRENT OCCUPANT (If different than Owner(s))
NAME:	N/A	N/A
ADDRESS:	N/A	N/A
PHONE:	N/A	N/A
EMAIL:	N/A	N/A

	PLANNER	DEVELOPER
NAME:	N/A	N/A
ADDRESS:	N/A	N/A
PHONE:	N/A	N/A
EMAIL:	N/A	N/A

	ARCHITECT	LANDSCAPE ARCHITECT
NAME:	N/A	N/A
ADDRESS:	N/A	N/A
PHONE:	N/A	N/A
EMAIL:	N/A	N/A

	SURVEYOR	ATTORNEY
NAME:	N/A	N/A
ADDRESS:	N/A	N/A
PHONE:	N/A	N/A
EMAIL:	N/A	N/A

	ENGINEER (USE ADD'L. SHEET FOR MULTIPLE ENGINEERS)	
NAME:	Tower Engineering Professionals	
ADDRESS:	1095 Windward Ridge Pkwy., Suite 140, Alpharetta, GA 30005	
PHONE:	(704) 369-1826	
EMAIL:	www.tepgroup.net	

# **OWNER ACKNOWLEDGMENT & CERTIFICATION**

I (We) affirm and certify that I (We) understand and will comply with all provisions and regulations of the Town of Palm Beach Shores, Florida. I (We) understand that if this Application is approved by the Town, the aforementioned real property described herein will be considered, in every respect, to be a part of the Town of Palm Beach Shores and will be subjected to all applicable laws, regulations, taxes and police powers of the Town including the Comprehensive Plan and Zoning Ordinance. I (We) further certify that all statements and diagrams submitted herewith are true and accurate to the best of my (our) knowledge and belief. Further, I (We) understand that this Application and attachments become part of the Official Records of the Town of Palm Beach Shores, Florida and are not returnable. I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

- 1. Owner acknowledges and understands that the fee for site plan review, architectural/aesthetic review, variance, special exception, rezoning, etc. may not cover all review costs. A final statement of any outstanding costs (covering advertising costs, legal, architectural and other consultant costs) will be sent to the applicant upon completion of the review process. Owner accepts financial responsibility for all costs incurred as a result of this Application.
- 2. A construction schedule is required of all developers during the development process. The Planning and Zoning Board must approve your proposed construction schedule.
- 3. The Town requires payment of impact fees for floor area added during the development, redevelopment or renovation of a property. These impact fees will be used to pay for capital improvements relative to Fire Protection, Police Protection, Parks & Recreation and Public Buildings. Impact fees must be paid to the Town before a Certificate of Occupancy will be issued.
- 4. Roll-off dumpsters for construction/demolition debris and solid waste must be rented through the Town's contracted solid waste hauler, Waste Management.
- 5. Final as-built plans must be submitted to the Town in digital form, preferably in PDF format.

By signing below, I acknowledge that I have read and understand the five (5) items listed above. Kathleen 7 Mc Gakies

FOR Mayan Towers Condominim #1 Signature of Owner

MARK HASSON Notary Public - State of Florida

Commission # GG 964695 My Comm. Expires Apr 3, 2024 Bonded through National Notary Assn,

9/22/2022 Date

KATHLEEN T MC GAHRAN FOR Printed Name of Owner

MAYAN TOWERS CONDOMINIAM 1

#### STATE OF FLORIDA **PALM BEACH COUNTY:**

The foregoing instrument was acknowledged before me b	by means of physical presence or $\Box$ online
notarization this <u>72</u> day of <u>September</u> 20 <u>22</u>	
by Euchlepon T. MCGalvan	who is personally known to me or has
produced (type of identification) as iden	ntification.
Mark Husson	the the
(Name - type, stamp or print clearly)	(Signature)

**NOTARY'S SEAL** 

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# **AUTHORIZATION OF AGENT & ACKNOWLEDGEMENT OF** FINANCIAL RESPONSIBILITY

Consent to an agent is required from the property owner(s) and contract purchaser, if applicable, if the property owner(s) or contract purchaser does not intend to attend all meetings and public hearings and submit it person all material pertaining to the Application. Consent to a firm shall be deemed consent for the entire firm, unless otherwise specified.

This form shall serve as consent for the agent identified below to prepare or have prepared all documents for the Application affecting property I (We) have an ownership interest in.

I (We) hereby designate and authorize the below-signed person to act as my (our) agent in regard to this Application and accept financial responsibility for any costs incurred by the agent as a result of this Application. Further, 1 (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

KATHLEENT. Mc Dahram For MAYAN Towers Condominium 1 9/23/2022 Signature of Owner or Trustee Data

#### **STATE OF FLORIDA PALM BEACH COUNTY:**

The foregoing instrument was acknowledged before me by means of physical presence or  $\Box$  online notarization this 23 day of SPA ter. ber 20 72.

hleen bv Lut 1 (rahour who is personally known to me or has produced (type of identification) as identification.

(Name - type, stamp or print clearly)

(Signature)



**NOTARY'S SEAL** 

**Agent Information:** 

Printed Name of Agent

Name of Firm

Signature of Agent

Date

# **PROCEDURES AND TIMELINES**

All development applications required to be submitted to the Planning and Zoning Board for review (Site Plan Review, Site Plan Modification, Architectural and Aesthetic Review, Special Exceptions and Variances) will be subject to the following procedures:

- 1. Development Review Committee ("DRC") review is regularly scheduled for the first Wednesday of each month at 2:00 pm. In order to be placed on the DRC agenda, a complete application must be submitted to the Town Clerk by the close of business on Monday of the week prior to the regularly scheduled DRC meeting. **Incomplete applications and late submittals will not be placed on a DRC agenda.**
- 2. If, as a result of the initial DRC review, it is determined by the DRC that a subsequent DRC meeting is necessary, the complete revised application must be submitted to the Town Clerk by the close of business on Monday of the week prior to the regularly scheduled DRC meeting. Applications that fail to include all revisions required by the DRC, or that are submitted late will not be placed on a DRC agenda until they have been corrected and are timely.
- 3. If, as a result of the initial DRC review, it is determined by the DRC that the project can proceed to the Planning and Zoning Board, a complete Planning and Zoning Board application must be submitted to the Town Clerk including all revisions noted by the DRC. A sufficiency review will be performed by the Town to confirm that all comments provided by the DRC have been addressed and a complete revised application submitted. Once all DRC comments have been adequately addressed and a complete revised application submitted, the submittal will be placed on the agenda for the next available Planning and Zoning Board review is regularly scheduled for the fourth Wednesday of each month. Applications that fail to include all revisions required by the DRC or that are incomplete will not be placed on a Planning and Zoning Board agenda.

### **APPLICATION FEE INFORMATION**

Administrative Appeal	\$250.00
Site Plan Review	\$350.00
Site Plan Modification Review	\$350.00
Variance Request	\$350.00
Special Exception Request	\$250.00
Telecom Site Plan Review or Modification	\$500.00
Plat Approval Request	\$600.00
Comprehensive Plan Amendment	\$750.00
Zoning Text Amendment / Rezoning	\$750.00
Sufficiency Review	Zoning Official (rate per hour)

# NUMBER OF COPIES REOUIRED

Development Review Committee	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor, <u>and</u> an electronic copy of all documents (on cd or thumb drive).
Planning and Zoning Board	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor, <u>and</u> an electronic copy of all documents (on cd or thumb drive).
Local Planning Agency	Ten (10) copies (folded & sorted into complete packet sets).
Town Commission	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor (as applicable), <u>and</u> an electronic copy of all documents (on cd or thumb drive).

Applicant acknowledges and understands that the fee for Site Plan Review, Architectural/aesthetic Review, Variance, Special Exception, Rezoning, etc. *may not cover all review costs*. A final statement of any outstanding costs (covering advertising costs, legal, architectural, and other consultants) will be sent to the Applicant upon completion of the review process.

# Tabular data showing compliance with all lot coverage, floor area, building height, grade and landscaping requirements must be provided on all submitted plans (Town Code § 14-62).

PROJECT NAME: MIMIA00378A

PROJECT ADDRESS: 125 S. Ocean Ave., Palm Beach Shores, FL 33404

# PROJECT LEGAL DESCRIPTION: \_\_\_\_\_

# \*\*\* All boxes <u>must</u> be completed, use N/A where appropriate \*\*\*

GENERAL DATA	CODE REQUIREMENT	EXISTING	PROPOSED
COMPREHENSIVE PLAN DESIGNATION: (SF-5, MF-21, MF-30, MF-42, P, ROS)	None	N/A	N/A
LAND USE: (Residential, Commercial, Recreational, Marina, Public, etc.)	None	Residential	Residential
ZONING DISTRICT: (A, B, C, D, P, ROS, designated at Pf. 3.1, Zoning Ordinance)	None	D	D
FLOOD ZONE CATEGORY:	None		
LOT COVERAGE, LANDSCAPING & PARKING	CODE REQUIREMENT	EXISTING	PROPOSED
TOTAL LOT SIZE: (sq. ft.)	None		
TOTAL COVERAGE OF A LOT BY BUILDINGS: (Pf. 5.4, 6.4, 7.5 or 8.5, Zoning Ordinance)	N/A	N/A	N/A
TOTAL LANDSCAPE COVERAGE: (Pf. 5.4.3, Zoning Ordinance)	N/A	N/A	N/A
OFF-STREET PARKING: (Pf. 5.13, 6.12, 7.13 or 8.14, Zoning Ordinance)	N/A	N/A	N/A
SETBACKS	CODE REQUIREMENT	EXISTING	PROPOSED
FRONT YARD: (Pf. 5.5, 6.6, 7.7 or 8.7, Zoning Ordinance)	N/A	N/A	N/A
REAR YARD: (Pf. 5.6, 6.7, 7.9 or 8.9, Zoning Ordinance)	N/A	N/A	N/A
SIDE YARD: (Pf. 5.7, 6.8, 7.8 or 8.8, Zoning Ordinance)	N/A	N/A	N/A

FLOOR AREA	CODE REQUIREMENT	EXISTING	PROPOSED
FIRST FLOOR AREA (sq. ft.):	None	N/A	N/A
SECOND FLOOR AREA (sq. ft.): (Pf. 5.4.2, Zoning Ordinance)	N/A	N/A	N/A
TOTAL FLOOR AREA (sq. ft.): (Pf.2.23, Zoning Ordinance)	None	N/A	N/A
FLOOR AREA RATIO: (Pf. 5.4.2, Zoning Ordinance)	N/A	N/A	N/A
DWELLING UNIT DENSITY: (Pf. 6.5, 7.6 or 8.6, Zoning Ordinance)	N/A	N/A	N/A
IMPERVIOUS AREA	NET INCREASE	EXISTING	PROPOSED
BUILDING FIRST FLOOR AREA (sq. ft.):	N/A	N/A	N/A
OTHER IMPERVIOUS AREA (sq. ft.): (Decks, Patios, Walkways, Driveways, Pool Deck & Pool Surface Areas)	N/A	N/A	N/A
TOTAL IMPERVIOUS AREA (sq. ft.):	N/A	N/A	N/A
		1	
ELEVATIONS	CODE REQUIREMENT	EXISTING	PROPOSED
<b>ELEVATIONS</b> GRADE ELEVATION (NAVD): (Pf. 4.6, Zoning Code)	CODE REQUIREMENT N/A	EXISTING N/A	PROPOSED N/A
ELEVATIONS GRADE ELEVATION (NAVD): (Pf. 4.6, Zoning Code) ESTABLISHED 1 <sup>ST</sup> FLOOR ELEVATION (NAVD): (Pf. 4.6, Zoning Code)	CODE REQUIREMENT N/A	EXISTING N/A	PROPOSED N/A N/A
ELEVATIONS         GRADE ELEVATION (NAVD):         (Pf. 4.6, Zoning Code)         ESTABLISHED 1 <sup>ST</sup> FLOOR ELEVATION         (NAVD): (Pf. 4.6, Zoning Code)         MEAN CROWN OF ROAD ELEVATION         (NAVD):	CODE       REQUIREMENT       N/A       N/A	EXISTING N/A N/A N/A	PROPOSED N/A N/A N/A
ELEVATIONS         GRADE ELEVATION (NAVD):         (Pf. 4.6, Zoning Code)         ESTABLISHED 1 <sup>ST</sup> FLOOR ELEVATION         (NAVD): (Pf. 4.6, Zoning Code)         MEAN CROWN OF ROAD ELEVATION         (NAVD):         BUILDING HEIGHT	CODE         REQUIREMENT         N/A         N/A         None         CODE         REQUIREMENT	EXISTING N/A N/A EXISTING	PROPOSED N/A N/A N/A PROPOSED
ELEVATIONS         GRADE ELEVATION (NAVD):         (Pf. 4.6, Zoning Code)         ESTABLISHED 1 <sup>ST</sup> FLOOR ELEVATION         (NAVD): (Pf. 4.6, Zoning Code)         MEAN CROWN OF ROAD ELEVATION         (NAVD):         BUILDING HEIGHT         TOTAL BUILDING HEIGHT (NAVD):         (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)	CODE         REQUIREMENT         N/A         N/A         None         CODE         REQUIREMENT         N/A	EXISTING N/A N/A N/A EXISTING 79'5" - Building height	PROPOSED N/A N/A N/A PROPOSED 79'5"Building Height and proposed new equipment will be @ 91'
ELEVATIONS         GRADE ELEVATION (NAVD):         (Pf. 4.6, Zoning Code)         ESTABLISHED 1 <sup>ST</sup> FLOOR ELEVATION         (NAVD):         (Pf. 4.6, Zoning Code)         MEAN CROWN OF ROAD ELEVATION         (NAVD):         BUILDING HEIGHT         (NAVD):         TOTAL BUILDING HEIGHT (NAVD):         (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)         TOP OF BEAM HEIGHT (NAVD):         (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)	CODE         REQUIREMENT         N/A         N/A         None         CODE         REQUIREMENT         N/A	EXISTING N/A N/A EXISTING 79'5" - Building height N/A	PROPOSED N/A N/A N/A PROPOSED 79'5"Building Height and proposed new equipment will be @ 91' N/A
ELEVATIONSGRADE ELEVATION (NAVD): (Pf. 4.6, Zoning Code)ESTABLISHED 1ST FLOOR ELEVATION (NAVD): (Pf. 4.6, Zoning Code)MEAN CROWN OF ROAD ELEVATION (NAVD):BUILDING HEIGHT (NAVD):TOTAL BUILDING HEIGHT (NAVD): (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)TOP OF BEAM HEIGHT (NAVD): (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)ROOF PITCH: (Pf. 5.2, 6.2 or 7.3, Zoning Ordinance)	CODE         REQUIREMENT         N/A         N/A         None         CODE         REQUIREMENT         N/A         N/A         N/A         N/A         N/A         N/A         N/A	EXISTING N/A N/A EXISTING 79'5" - Building height N/A N/A N/A	PROPOSED N/A N/A N/A PROPOSED 79'5"Building Height and proposed new equipment will be @ 91' N/A N/A N/A

# JUSTIFICATION STATEMENT

Provide a summary of the proposed project, describing in detail the construction, phasing and proposed development to occur as part of this application (attach additional sheets if needed):

Addition of antennas, radios, and ancillary equipment to be mounted on the existing rooftop.

Note: Construction Schedule is due as part of site plan review and before building permit issuance. (Town Code §14-63). A signed and notarized contract (signed by owner) must be provided before building permit issuance. (Town Code §14-108).

Provide an estimate of construction costs:

\$49,000.00

Describe the existing improvements located on the subject property (attach additional sheets if needed):

There is an existing wireless telecommunication facility on the rooftop. Proposing adding additional antennas, radios and ancillary

equipment for DISH Wireless.

Provide a project history for the subject property, including any prior development approvals filed within the last year in connection with the subject property. Please include the date of previous site plan approval by the Planning and Zoning Board for this property (attach additional sheets if needed):

N/A

Provide the justification, special reasons, or basis for the approval of this application. Explain why this application is consistent with good planning and zoning practice, will not be contrary to the Town's Comprehensive Development Plan, and will not be detrimental to the promotion of public appearance, comfort, convenience, general welfare, good order, health, morals, prosperity, and safety of the Town. Additionally, all standards set forth in the Town Code of Ordinances for Special Exceptions, Variances, Administrative Appeals, etc. must be addressed. (attach additional sheets if needed):

The proposed wireless telecommunication facility will be designed to be architecturally compatible with the existing structure.

Provide any other pertinent information related to the subject property to support the proposed request.

N/A

# **DRAINAGE REQUIREMENTS**

(For projects proposing additional on-site impervious area)

For proposed renovations/modifications to existing projects that result in <u>LESS THAN</u> a 50% increase in total site imperviousness, retain 1" of stormwater volume from the total additional impervious area.

For proposed new construction, or renovations/modifications to existing projects that result in a <u>GREATER</u> <u>THAN</u> a 50% increase in total site imperviousness, retain 1" of stormwater volume over the entire site.

Submit a Survey with topographic elevations and existing improvements.

A Drainage and Grading Plan and drainage calculations are required to be submitted with the application package for new construction projects and substantial modifications to existing projects. The Drainage Plan must show the following:

- a. Existing and proposed elevations.
- b. Location of sodded swales, sodded depressed retention areas, underground exfiltration trench and/or other proposed stormwater treatment/retention methods.
- c. Underground piping and inlets and other drainage system improvements proposed.
- d. Drainage calculations showing the retention of the volume of 1" of stormwater from addition impervious areas (or overall site).
- e. Show drainage improvements and underground piping, including water and sewer services, on the Landscape Plans to show no conflicts exist.
- f. Include note that no runoff may be directed to adjacent properties and all storm flows and runoff must be retained on-site prior to discharge into the adjacent roadway right-of-way following retention of required stormwater volume.
- g. Provide engineering details of gutter and downspout dry wells, if proposed.
- h. Provide engineering detail of exfiltration trench, if proposed.
- i. Provide engineering detail of sodded swales, if proposed.
- j. Provide engineering detail of depressed dry retention areas, if proposed.
- k. Provide Geotechnical Report or engineering assumptions/justification for coefficient of permeability (K Factor) for exfiltration trench design, if proposed.
- 1. Engineering details/cross sections at property lines demonstrating no runoff will flow to adjacent properties may be required.

Project Engineer or Architect shall be responsible for insuring the drainage improvements are completed in substantial accordance with the approved plan.

Prior to C.O., Project Engineer or Architect to provide final signed and sealed certification that the drainage improvements and grading have been completed in substantial accordance with the approved plan.

Upon receipt of final Certification from Project Engineer or Architect, Town Engineer to visit site and ensure conformance of Town requirements prior to issuance of final C.O.

# **REQUEST FOR ARCHITECTURAL AND AESTHETIC REVIEW**

Please be advised that pursuant to Sec. 14-86 and 14-87 of the Town Code of Ordinances, the Town Planning and Zoning Board uses the following criteria in order to complete its Architectural and Aesthetic Review. Each criteria must be addressed by the applicant prior to the application being processed.

**1. Relationship of building to site:** (Explain transition from streetscape; placement of parking and service areas; and compatibility of building height and scale with site):

The proposed project consists of adding antennas and equipment to an existing structure rooftop with existing wireless telecommunication

facility. The project will have no impact on the existing ground infrastructure of the property.

**2.** Relationship of building and site to adjoining area(s): (Explain how structures and landscaping are consistent with established neighborhood character and will enhance the surrounding area. Include description of architectural style, as well as textures, materials and colors to be utilized):

The proposed project consists of adding antennas and equipment to an existing structure rooftop with existing wireless telecommunication

facility. The project will paint all equipment to match the existing aesthetic of the building.

**3. Landscape and site treatment:** (Explain how landscaping, exterior lighting and other site elements will be used to enhance architectural features, buffer the mass of buildings as appropriate, and enhance the privacy of the owner and neighbors. Describe the use of native species and xeriscaping as appropriate.):

The proposed project consists of adding antennas and equipment to an existing telecommunications facility. The project will have no impact

on the existing ground infrastructure or landscaping on the property.

**4. Building design**: (Explain proposed building design and style, and how components such as roofs, windows, doors, eaves and parapets are balanced in proportion to each other; address harmoniousness of colors, visual interest and compatibility):

The proposed project consists of adding antennas and equipment to an existing structure rooftop with existing wireless telecommunication

facility. The project will paint all equipment to match the existing aesthetic of the building.

**Please provide all documentation and/or samples necessary** to address all architectural review criteria as applicable. Attach additional pages as necessary.

N/A

# **REQUEST FOR SITE PLAN MODIFICATION**

1. Previously approved (Original) site plan information:
a. Original Project Name: N/A
b. Original Site Plan Application No.:
c. Original Site Plan Approval Date:
d. List of all other relevant information on file with original application: N/A
2 Requested Modification(s): N/A

Please provide all documentation necessary to describe the proposed modification and to explain the reason(s) for the proposed modification(s), including a survey, if applicable. Attach additional pages as necessary.

# **REQUEST FOR VARIANCE**

The Applicant is requesting a variance from the Town Code Section(s)\_\_\_\_\_\_to permit the following:

Please be advised that a variance from the terms of the Zoning Code shall not be recommended by the Planning and Zoning Board, nor granted by the Town Commission, unless the Applicant is able to demonstrate the following:

1. Explain the special conditions and circumstances which exist that are peculiar to the land, structure, or building involved and which are not applicable to other lands, structures, or building in the same zoning district:

2. Explain how the special conditions and circumstances that exist do not result from the actions of the Applicant:

3. Explain how the literal interpretation of the provisions of the Zoning Ordinance would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district under the terms of the Zoning Code and would work unnecessary and undue hardship on the Applicant:

4. Explain how the variance requested is the minimum variance that will make possible a reasonable use of the land, building or structure:

5. Explain how the granting of the requested variance will not confer on the Applicant any special privilege that is denied by the Zoning Code to other lands, structures, or buildings in the same zoning district:

6. Explain how the grant of the requested variance will be in harmony with the general intent and purpose of the Zoning Code and will not be injurious to the neighborhood or otherwise detrimental to the public welfare:

The burden of meeting the standards as set forth above is upon the Applicant. Please provide all documentation necessary to prove your case, including a survey, if applicable. Attach additional pages as necessary.

# **REQUEST FOR SPECIAL EXCEPTION**

The Applicant is requesting a special exception pursuant to Town Code Section(s)  $\frac{Pf.8.2(3)}{100}$  to permit the following:

Installation of antennas and radios on an existing rooftop telecommunication site.

A Special Exception shall not be recommended by the Town Planning and Zoning Board, nor granted by the Town Commission, unless the Applicant is able to demonstrate the following:

1. Explain how all structures will be separated from adjacent and nearby uses by appropriate screening devices:

The project will paint all equipment to match the existing aesthetic of the building.

2. Explain whether or not excessive vehicular traffic will be generated on surrounding residential streets:

The proposed project consists of adding antennas and equipment to an existing structure rooftop with existing rooftop telecommunication

facility. The project will not create excessive vehicular traffic on surrounding residential streets.

3. Explain whether or not a vehicular parking or traffic problem is created:

The proposed project consists of adding antennas and equipment to an existing structure rooftop with existing rooftop telecommunication

facility. The project will not create a vehicular or traffic problem.

4. Explain where on the site appropriate drives, walkways and buffers will be installed:

N/A

5. Explain how the proposed use will make a substantial contribution to the neighborhood environment and will not infringe on the rights of properties in the vicinity:

The proposed project consists of adding antennas and equipment to an existing structure rooftop with existing rooftop telecommunication

facility. The project will only impact the rooftop of the subject property.

6. Explain how the proposed use will not endanger, restrict or impair public safety:

The proposed project consists of adding antennas and equipment to an existing structure rooftop with existing rooftop telecommunication

facility. The project will only impact the rooftop of the subject property.

The initial burden of meeting the standards as set forth above is upon the Applicant. Please provide all documentation necessary to prove your case, including a survey, if applicable. Attach additional pages as necessary.

# **AUTHORIZATION OF AGENT & ACKNOWLEDGEMENT OF** FINANCIAL RESPONSIBILITY

Consent to an agent is required from the property owner(s) and contract purchaser, if applicable, if the property owner(s) or contract purchaser does not intend to attend all meetings and public hearings and submit it person all material pertaining to the Application. Consent to a firm shall be deemed consent for the entire firm, unless otherwise specified.

This form shall serve as consent for the agent identified below to prepare or have prepared all documents for the Application affecting property I (We) have an ownership interest in.

I (We) hereby designate and authorize the below-signed person to act as my (our) agent in regard to this Application and accept financial responsibility for any costs incurred by the agent as a result of this Application. Further, 1 (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

KATHLEENT. Mc Dahram For MAYAN Towers Condominium 1 9/23/2022 Signature of Owner or Trustee Data

#### **STATE OF FLORIDA PALM BEACH COUNTY:**

The foregoing instrument was acknowledged before me by means of physical presence or  $\Box$  online notarization this 23 day of SPA ter. ber 20 72.

hleen bv Lut 1 (rahour who is personally known to me or has produced (type of identification) as identification.

(Name - type, stamp or print clearly)

(Signature)



**NOTARY'S SEAL** 

**Agent Information:** 

Printed Name of Agent

Name of Firm

Signature of Agent

Date

# **OWNER ACKNOWLEDGMENT & CERTIFICATION**

I (We) affirm and certify that I (We) understand and will comply with all provisions and regulations of the Town of Palm Beach Shores, Florida. I (We) understand that if this Application is approved by the Town, the aforementioned real property described herein will be considered, in every respect, to be a part of the Town of Palm Beach Shores and will be subjected to all applicable laws, regulations, taxes and police powers of the Town including the Comprehensive Plan and Zoning Ordinance. I (We) further certify that all statements and diagrams submitted herewith are true and accurate to the best of my (our) knowledge and belief. Further, I (We) understand that this Application and attachments become part of the Official Records of the Town of Palm Beach Shores, Florida and are not returnable. I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

- 1. Owner acknowledges and understands that the fee for site plan review, architectural/aesthetic review, variance, special exception, rezoning, etc. may not cover all review costs. A final statement of any outstanding costs (covering advertising costs, legal, architectural and other consultant costs) will be sent to the applicant upon completion of the review process. Owner accepts financial responsibility for all costs incurred as a result of this Application.
- 2. A construction schedule is required of all developers during the development process. The Planning and Zoning Board must approve your proposed construction schedule.
- 3. The Town requires payment of impact fees for floor area added during the development, redevelopment or renovation of a property. These impact fees will be used to pay for capital improvements relative to Fire Protection, Police Protection, Parks & Recreation and Public Buildings. Impact fees must be paid to the Town before a Certificate of Occupancy will be issued.
- 4. Roll-off dumpsters for construction/demolition debris and solid waste must be rented through the Town's contracted solid waste hauler, Waste Management.
- 5. Final as-built plans must be submitted to the Town in digital form, preferably in PDF format.

By signing below, I acknowledge that I have read and understand the five (5) items listed above. Kathleen 7 Mc Gakies

FOR Mayan Towers Condominim #1 Signature of Owner

MARK HASSON Notary Public - State of Florida

Commission # GG 964695 My Comm. Expires Apr 3, 2024 Bonded through National Notary Assn,

9/22/2022 Date

KATHLEEN T MC GAHRAN FOR Printed Name of Owner

MAYAN TOWERS CONDOMINIAM 1

#### STATE OF FLORIDA **PALM BEACH COUNTY:**

The foregoing instrument was acknowledged before me b	by means of physical presence or $\Box$ online
notarization this <u>72</u> day of <u>September</u> 20 <u>22</u>	
by Euchlepon T. MCGalvan	who is personally known to me or has
produced (type of identification) as iden	ntification.
Mark Husson	the the
(Name - type, stamp or print clearly)	(Signature)

**NOTARY'S SEAL** 

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Page 3 of 14





#### MORRISON HERSHFIELD

Ms. Jessica Ross Dish Wireless, LLC. 5701 South Santa FE Drive Littleton, CO 80120 (206) 523-1941 Morrison Hershfield 1455 Lincoln Parkway, Suite 500 Atlanta, GA 30346 (770) 379-8500

Date: September 21, 2022

#### Subject: Rooftop Mount Analysis Report

Site ID:	MIMIA00378A
Site Address:	125 S Ocean Avenue, Palm Beach Shores, Palm Beach Co., FL 33404
Site Coordinates:	Latitude: 26° 46' 45.01" N, Longitude: 80° 01' 59.21" W
Tower Description:	95 ft – Building w/ Penthouse
Mount Description:	FRP Enclosed Antenna Mounts

Morrison Hershfield Project Number: DSH-041R2 / 2101541

Dear Ms. Ross,

Morrison Hershfield is pleased to submit this "**Rooftop Mount Analysis Report**" to determine the structural integrity of proposed antenna mounting system for the proposed antenna and equipment on the abovementioned supporting structure.

This analysis utilizes an ultimate 3-second gust wind speed of 170 mph as required by the 2020 Florida Building Code 7<sup>th</sup> Edition. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Our analysis demonstrates that the proposed mounts **ARE in conformance** with the requirements of the above noted standards under the effects of loading described.

Summary of Results			
Mount Components	Antenna Mounts	34.2%	Sufficient
Connection Checks	Mount to Wall	14.3%	Sufficient

We at *Morrison Hershfield* appreciate the opportunity of providing our continuing professional services to you and Dish Wireless, LLC. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully submitted by: Morrison Hershfield

Yan Wang, P.E. (FL License No. 62209) Senior Engineer

Certificate of Authorization No. 8508



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY YAN WANG, PE ON THE DATE AS SHOWN USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERTIED ON ANY ELECTRONIC COPIES.

Morrison Hershfield

### **1.0 INTRODUCTION**

This is a  $95\pm$  ft building w/ penthouse, constructed with concrete and structural steel. Proposed antennas equipment is to be installed at a mount elevation of  $91.5\pm$  ft on the proposed antenna wall mounts that are attached to building penthouse.

#### 2.0 ANALYSIS CRITERIA

The following design parameters have been used in our analysis:

Design Standard:	2020 Florida Building Code, 7th Edition ASCE 7-16, Minimum Design Loads and Associated Criteria for Building and Other Structures ACI 318-19, Building Code Requirements for Structural Concrete AISC 325-17, Manual of Steel Construction
Design Wind Speed:	170 mph (Ultimate 3-sec gust) with no radial ice
Risk Category:	
Exposure Category:	D
Topographic Factor, K <sub>zt</sub> :	1.0
Seismic Ss:	0.045 [Neglected]
Seismic S <sub>1</sub> :	0.024 [Neglected]

The mount analysis was based on the following documentation:

#### Table 1 – Documentation

Document	Description	Source
Rooftop Mapping Report	Tower Engineering Professionals, Inc., Site ID: MIMIA00378A, dated 11/30/2021	Client
Preliminary Construction Drawings	Tower Engineering Professionals, Inc., Site ID: MIMIA00378A, dated 08/26/2021	Client



### 3.0 ANALYSIS LOADING

The proposed antennas, transmission lines and other equipment considered in this analysis were provided by the client and are noted in Table 2a.

#### Table 2a – Antenna Loads

Mount C.L (ft)	Antenna C.L (ft)	Antenna Description	Location	TX-Lines	Note
		PROPOSED			
		(3) JMA MX08FRO665-21 Panel	355°/180°/270°		
91.5± 91.5±	(3) MTI TB GO60708-50-02B RRH	-	DC & Fiber Trunks	1	
	(3) MTI TB G2021-49-02B RRH				
		(3) Dish OVP Device			

Note: Any discrepancies in loading from this listing should be brought to Morrison Hershfield's attention; results of this assessment cannot be used if the loading is different.

1. Proposed antennas and equipment to be installed on proposed antenna mounts and wall mounts.

The proposed equipment considered in this analysis were provided by the client and are noted in Table 2b.

#### Table 2b – Equipment Loads

Equipment Description	Weight (Ibs.)	Note
PROPOSED		
(1) Enersys HEX 2000005996 Cabinet	1000.0	1
(1) Charles CFIT-PF2020DSH1 Fiber Telco Enclosure	20.0	
(1) Square D Safety Switches D224NRB	53.51	2
(1) Power Protective Cabinet	180.0	2
(1) GPS Unit	-	

Note: Any discrepancies in loading from this listing should be brought to Morrison Hershfield's attention; results of this assessment cannot be used if the loading is different.

1. Proposed equipment to installed on the proposed equipment wall mounts.

2. Proposed equipment directly attached to wall.



### 4.0 ANALYSIS PROCEDURE

RISA-3D (version 20.0.2), a commercially available analysis software package, was used to create a threedimensional model of the antenna mounting system and calculate member stresses for various loading cases.

Enercalc (Build 20.22.1.27), a commercially available analysis software package, was used to create a threedimensional model of the concrete masonry wall and calculate stresses for various loading cases.

Wind and seismic loading on equipment for various loading cases were determined in accordance with ASCE 7-16. Select output from the analysis is included in the report.

#### 5.0 ASSUMPTIONS

- 1) The building, foundation, and antenna supporting mounts were constructed according to applicable code.
- 2) The building and antenna supporting mounting system have been maintained according to construction document and manufacturer's specifications.
- 3) The building and its components, including antenna supporting mounts have not been compromised.
- 4) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
- 5) Steel grades have been assumed as follows, unless noted otherwise

Channel, Solid Round, Angle, Plate	ASTM A36 (GR 36)
HSS (Rectangular)	ASTM 500 (GR B-46)
HSS (Round)	ASTM 500 (GR B-42)
Pipe	ASTM A53 (GR 35)
Connection Bolts	ASTM A325
U-Bolts	ASTM A307
Unistrut – P1000	ASTM A570 (GR 33)

- 6) The existing wall geometry are taken from the rooftop mapping report completed by Tower Engineering Professionals, Inc., Site ID: MIMIA00378A, dated 11/30/2021, and is considered to be correct.
- 7) The proposed mount geometry and member sizes are taken from the manufacturer drawings by **Site Pro 1, Part No. WWM01, dated 05/10/2010,** and is considered to be correct
- 8) The proposed loading is taken from the preliminary construction drawings by Tower Engineering Professionals, Inc., Site ID: MIMIA00378A, dated 08/26/2021, and is considered to be correct.

This analysis may be affected if any assumptions are not valid or have been made in error. Morrison Hershfield should be notified to determine the effect on the structural integrity of the antenna mounting system.



#### 6.0 SUMMARY OF RESULTS

The following tables summarize the location and utilized percentage of available capacity for each component of the mount. With consideration to the appropriate safety factors, 100% represents the full capacity of the component. Percentages below 100% indicate available capacity and conformance of the component. Percentages between 100% and 105% indicate an acceptable capacity. Percentages above 105% indicate an overstressed situation requiring structural modification to ensure conformance with the applicable codes and standards.

Based on our analysis results, the antenna wall mounts **ARE within capacity** to support the loads under the current loading scenario.

Notes	Component	Critical Member	Mount Centerline (ft)	% Capacity	Pass / Fail
1	Standoff	M1	91.5	12.8	Pass
1	Mast Pipe	M7	91.5	34.2	Pass
1	Connection Checks	-	91.5	14.3	Pass

	Table 3a – Mount Com	ponent Stresses vs.	Capacity	(Antenna Wall Mounts)
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Structure Rating (max from all components) =	34.2%
--	-------

Notes:

1) See additional documentation in "Additional Calculations" for calculations supporting the % capacity consumed.

#### 7.0 RECOMMENDATIONS

The proposed antenna mounts have sufficient capacity to support the proposed loading configuration. No modifications are required at this time.

**ATTACHMENTS:** Software Input Calculations, Wire Frame and Rendered Models, Software Analysis Output Additional Calculations and Structural Design Drawings



### SOFTWARE INPUT CALCULATIONS

# **BUILDING ELEVATION**







WIND LOAD CALCULATIONS ON APPURTENANCES:

Code Sea	<u>arch</u>					
Code:	2020 Florid	a Building C	Code	<b>•</b>		
Оссира	ncy:					
Occupa	ancy Group =	В	Business	•		
<b>Biek Cat</b>	egon/ & In	nnortan	ce Eactors:			
Nisk Cal	egoryam	nportan				
R	isk Category	Category	II : All bldgs and other stru	ictures except	those listed in Categories I, II	I, & IV 🔽
Wind Load	s - Other	Structu	res: ASCE 7-16		Ultimate Wind F	ressures
G	Wind ust Effect Fact	Factor = or (G) = Kzt =	1.00 0.85 Ultimate Wind Spee 1.00 Exposur	d= 170 m e= D	nph	
1. DISH Propos	sed (1) JMA I	MX08FRO	665-21 Panel (72.8"x2	0.0"x8.0", W	Vt. = 64.5 lbs), Total (3)	
Front: A. Solid Freest	anding Walls	s & Solid	Signs (& open signs w	ith less thar	n 30% open <u>)</u>	
			s/h =	0.07	Case A & B	
Dist to s	sign top (h)	91.5 ft	B/s =	0.28	$C_f =$	1.85
Width (	(S) (B)	0.1 ft	Kz =	1.411	As =	10.4 sf
Wall Re	turn (Lr) =		qz =	88.7 psf	F =	1447 lbs
Directio	nality (Kd)	0.85	ASCE7 Load Combinations Used	<b>•</b>		
Side: A. Solid Freest	anding Walls	s & Solid S	Sians (& open sians w	ith less thar	n 30% open)	
			s/h =	0.07	Case A & B	
Dist to s	ign top (h)	91.5 ft	B/s =	0.11	C <sub>f</sub> =	1.89
Height (	(s)	6.1 ft	Lr/s =	0.00	F = qz G Cf As =	142.7 As
Width (	B)	0.7 ft	Kz =	1.411 99.7 pcf	As ='	4.3 sf
Direction	nality (Kd)	0.85	42 – ASCE7 Load Combinations Used	- 00.7 µsi	1 -	010 105
2. DISH Propos Front:	sed (1) MII I	B G06070	8-50-02B RRH (13.9″x	16.9″x9.8″,	Wt. = $97.0 \text{ lbs}$ , 1 otal (3)	
A. Solid Freest	anding Walls	s & Solid S	Signs (& open signs w	ith less than	<u>1 30% open)</u>	
			s/h =	0.01	Case A & B	
Dist to s	ign top (h)	91.5 ft	B/s =	1.17	C <sub>f</sub> =	1.80
Height	(s)	1.2 ft	Lr/s =	0.00	F = qz G Cf As =	135.8 As
Wall Re	B) turn (Lr) =	1.4 ft	Kz =	1.411 88.7 pcf	As = F =	1.7 st 228 lbs
Direction	nality (Kd)	0.85	ASCE7 Load Combinations Used	- 00.7 psi	1 -	220 103
Side:						
A. Solid Freest	anding Walls	s & Solid S	Signs (& open signs w	ith less than	<u>1 30% open)</u>	
			s/h =	0.01	Case A & B	
Dist to s	sign top (h)	91.5 ft	B/s =	0.67	$C_f =$	1.83
Width (	(S) B)	1.2 π 0.8 <del>f</del> t	Lr/s = Kz =	1.411	F = qZ G CFAs =	10 sf
Wall Re	turn (Lr) =	0.0 1	qz =	88.7 psf	F =	133 lbs
Direction	nality (Kd)	0.85	ASCE7 Load Combinations Used	<b>•</b>		
						<b>p</b> -

# 3. DISH Proposed (1) MTI TB G2021-49-02B RRH (13.9"x16.9"x9.8", Wt. = 86.0 lbs), Total (3) Front:

A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)					
		s/h =	0.01	Case A & B	
Dist to sign top (h)	91.5 ft	B/s =	1.17	C <sub>f</sub> =	1.80
Height (s)	1.2 ft	Lr/s =	0.00	F = qz G Cf As =	135.8 As
Width (B)	1.4 ft	Kz =	1.411	As =	1.7 sf
Wall Return (Lr) =		qz =	88.7 psf	F =	228 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used	-		
Side:					
A. Solid Freestanding Walls	s & Solid	Signs (& open signs wi	th less th	<u>an 30% open)</u>	
		s/h =	0.01	Case A & B	
Dist to sign top (h)	91.5 ft	B/s =	0.67	C <sub>f</sub> =	1.83
Height (s)	1.2 ft	Lr/s =	0.00	F = qz G Cf As =	138.3 As
Width (B)	0.8 ft	Kz =	1.411	As =	1.0 sf
Wall Return (Lr) =		qz =	88.7 psf	F =	133 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used	-		

 4. Dish Proposed (1) Enersys HEX 2000005996 Cabinet (73"x30"x32", Wt. = 1000 lb) Front
 A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30%)

Solid Freestanding	Walls & 3	Solid Signs (& oper	n signs v	with less than 30% open	)
		s/h =	0.06	Case A & B	
Dist to sign top (h)	100.0 ft	B/s =	0.41	C <sub>f</sub> =	1.85
Height (s)	6.1 ft	Lr/s =	0.00	F = qz G Cf As =	141.7 As
Width (B)	2.5 ft	Kz =	1.433	As =	15.2 sf
Wall Return (Lr) =		qz =	_90.1_psf	F =	2155 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations	Use 🔻		

### Side

# A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)

		s/h =	0.06	Case A & B	
Dist to sign top (h)	100.0 ft	B/s =	0.44	C <sub>f</sub> =	1.85
Height (s)	6.1 ft	Lr/s =	0.00	F = qz G Cf As =	141.7 As
Width (B)	2.7 ft	Kz =	1.433	As =	16.2 sf
Wall Return (Lr) =		qz =	90.1 psf	F =	2299 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinatio	ns User 🔻		

### WIND LOAD CALCULATIONS ON MOUNT MEMBERS:

#### 1. Pipe 3.0XX Pipe (3.5" OD)

A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)

		s/h =	0.01	Case A & B	
Dist to sign top (h)	91.5 ft	B/s =	0.30	C <sub>f</sub> =	1.85
Height (s)	1.0 ft	Lr/s =	0.00	F = qz G Cf As =	139.5 As
Width (B)	0.3 ft	Kz =	1.411	As =	0.3 sf
Wall Return (Lr) =		qz =	88.7 psf	F =	42 lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used	-		



### 2. HSS4X4X4 (4" Width)

# A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)

		o/h	0.01	Case A 8 D
		S/II =	0.01	Case A & B
Dist to sign top (h)	91.5 ft	B/s =	0.30	C <sub>f</sub> = 1.85
Height (s)	1.0 ft	Lr/s =	0.00	F = qz G Cf As = <b>139.5 As</b>
Width (B)	0.3 ft	Kz =	1.411	As = 0.3 sf
Wall Return (Lr) =		qz =	88.7 psf	F = 42  lbs
Directionality (Kd)	0.85	ASCE7 Load Combinations Used	-	

### PROPOSED EQUIPMENT DETAILS







### Bolt Connection Check (Wall Mounts):



Bolts proposed are (4) 5/8" dia threaded rods per bracket through concrete masonry wall with backing plates:

Resultant reactions from Risa-3D results:

LC	Node Label	X [lb]	Y [lb]	Z [lb]	MY [lb-in]	Tension [lbs]	Shear [lbs]
7	N6	0.0	2803.5	3616.4	0.0	0.0	700.9
8	N6	-2482.3	211.9	-138.0	-17312.5	-1477.2	622.8

Factored Tension per bolt= 1477 lbsFactored Shear per bolt= 623 lbs

# Per AISC -15th Edition, Table 7-1 for A307 bolts:

Fnt= 45 ksi and Fnv= 27 ksi

φRn= 0.75Rn (Per Section J6, eq. J3-1)

Allowable Tension	= 0.75 x 45 Ab	= 10354 lbs
Allowable Shear	= 0.75 x 27 Ab	= 6213 lbs
Tension Capacity	= 1477/10354	= 14.3% <b>[OK!</b> ]
Shear Capacity	= 623/6213	= 10.1% <b>[OK!</b> ]





### Bolt Connection Check for Cabinet to Penthouse Wall:

Bolts Considered for connection are (2) 3/4" dia threaded rods per connection through concrete masonry wall with backing plates:

Factored Tension: 494 lbs

Factored Shear: 712 lbs

### Per AISC -15th Edition, Table 7-1 for A307 bolts:

Fnt= 45 ksi and Fnv= 27 ksi

φRn= 0.75Rn (Per Section J6, eq. J3-1)

Allowable Tension	= 0.75 x 45 Ab = 14910	lbs
Allowable Shear	= 0.75 x 27 Ab = 8946 lb	S
Tension Capacity	= 741/14910 = 4.9%	[OK!]
Shear Capacity	= 712/8946 = 7.9%	[OK!]

Morrison Hershfield ML DSH-041R2 / 2101541	Site#: MIMIA00378A	SK-1 Sep 19, 2022 Wall Mount ( Site Pro 1 #WWM01)

	Proposed P3.0XX 9ft long with Site F mounting assemb	STD Mast Pipe, Pro 1#WWM01 ly
Envelope Only Solution Morrison Hershfield ML DSH-041R2 / 2101541	Site#: MIMIA00378A	SK-1 Sep 19, 2022 Wall Mount ( Site Pro 1 #WWM01)









Model Settings	
Solution	
Mombore	
Number of Reported Sections	5
Number of Internal Sections	100
Member Area Load Mesh Size (in <sup>2</sup> )	144
Consider Shear Deformation	Voc
Consider Torsional Warping	Voc
	165
Wall Panels	
Approximate Mesh Size (in)	24
Transfer Forces Between Intersecting Wood Walls	Yes
Increase Wood Wall Nailing Capacity for Wind Loads	Yes
Include P-Delta for Walls	Yes
Optimize Masonry and Wood Walls	Yes
Maximum Number of Iterations	3
	•
Processor Core Utilization	
Single	No
Multiple (Optimum)	Yes
Maximum	No
Maximum	
Δνία	
Axis Vortical Clabal Axia	
	V
Convert Existing Data	Voc
	103
Defeult Merch en Orientetien	
Default Clobal Diana far a avia	V7
Default Global Plane for Z-axis	٨L
Plate Axis	
Plate Local Axis Orientation	Global
Codes	
Hot Rolled Steel	AISC 15th (360-16): LRFD
Stiffness Adjustment	Yes (Iterative)
Notional Annex	None
Connections	None
Cold Formed Steel	None
Stiffness Adjustment	Yes (Iterative)
Wood	None
Temperature	< 100F
Concrete	None
Masonry	None
Aluminum	None
Structure Type	Building
Stiffness Adjustment	Yes (Iterative)
Stainless	None
Stiffness Adjustment	Yes (Iterative)

Concrete	
Compression Stress Block	Rectangular Stress Block
Analyze using Cracked Sections	Yes
Leave room for horizontal rebar splices (2*d bar spacing)	Yes


# Model Settings (Continued)

List forces which were ignored for design in the Detail Report	Yes
_ Rebar	
Column Min Steel	1
Column Max Steel	8
Rebar Material Spec	ASTM A615
Warn if beam-column framing arrangement is not understood	No
Shear Reinforcement	
Number of Shear Regions	4
Region 2 & 3 Spacing Increase Increment (in)	4
Seismic	
RISA-3D Seismic Load Options	
Code	None
Base Elevation (ft)	
Include the weight of the structure in base shear calcs	Yes
Structure Characteristics	_
T Z (sec)	
T X (sec)	
C <sub>1</sub> Z	0.02
C <sub>1</sub> X	0.02
RZ	3
RX	3

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft3]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

# Hot Rolled Steel Section Sets

	Label	Shape	Туре	Design List	Material	Design Rule	Area [in²]	lyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Standoff	HSS4X4X4	Beam	Tube	A500 Gr.B RECT	Typical	3.37	7.8	7.8	12.8
2	Mast Pipe (P)	PIPE 3.0XX	Column	HSS Pipe	A53 Gr.B	Typical	5.17	5.79	5.79	11.6

# Node Boundary Conditions

	Node Label	X [lb/in]	Y [lb/in]	Z [lb/in]	Y Rot [k-ft/rad]
1	N5	Reaction	Reaction	Reaction	Reaction
2	N6	Reaction	Reaction	Reaction	Reaction
3	N10	Reaction	Reaction	Reaction	Reaction
4	N12	Reaction	Reaction	Reaction	Reaction
5	N16	Reaction	Reaction	Reaction	Reaction
6	N18	Reaction	Reaction	Reaction	Reaction

# Hot Rolled Steel Design Parameters

	Label	Shape	Length [in]	Lb y-y [in]	Lb z-z [in]	Channel Conn.	a [in]	Function
1	M1	Standoff	8			N/A	N/A	Lateral
2	M2	Standoff	8			N/A	N/A	Lateral
3	M7	Mast Pipe (P)	108	Segment	Segment	N/A	N/A	Lateral
4	M4	Mast Pipe (P)	108	Segment	Segment	N/A	N/A	Lateral
5	M5	Standoff	8			N/A	N/A	Lateral
6	M6	Standoff	8			N/A	N/A	Lateral
7	M8	Mast Pipe (P)	108	Segment	Segment	N/A	N/A	Lateral
8	M9	Standoff	8	-	-	N/A	N/A	Lateral
9	M10	Standoff	8			N/A	N/A	Lateral

# Member Point Loads (BLC 1 : DL)

	Member Label	Direction	Magnitude [lb, kip-in]	Location [(in, %)]
1	M7	Y	-32.25	6
2	M7	Y	-32.25	66
3	M7	Y	-183	90
4	M4	Y	-183	90
5	M4	Y	-32.25	66
6	M4	Y	-32.25	6
7	M8	Y	-183	90
8	M8	Y	-32.25	66
9	M8	Ý	-32.25	6



### Member Point Loads (BLC 2 : Wind X)

	Member Label	Direction	Magnitude [lb, kip-in]	Location [(in, %)]
1	M7	Х	-305	66
2	M7	Х	-305	6
3	M7	Х	-228	90
4	M4	Х	-305	6
5	M4	Х	-305	66
6	M4	Х	-228	90
7	M8	X	-305	6
8	M8	Х	-305	66
9	M8	Х	-228	90

### Member Point Loads (BLC 3 : Wind Z)

	Member Label	Direction	Magnitude [lb, kip-in]	Location [(in, %)]
1	M7	Z	-723.5	6
2	M7	Z	-723.5	66
3	M7	Z	-266	90
4	M4	Z	-723.5	6
5	M4	Z	-266	90
6	M4	Z	-723.5	66
7	M8	Z	-723.5	6
8	M8	Z	-266	90
9	M8	Z	-723.5	66

### Member Distributed Loads (BLC 2 : Wind X)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, kip-in/in]	End Magnitude [lb/ft, F, psf, kip-in/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M7	PX	-139.5	-139.5	0	%100
2	M1	PX	-139.5	-139.5	0	%100
3	M2	PX	-139.5	-139.5	0	%100
4	M4	PX	-139.5	-139.5	0	%100
5	M5	PX	-139.5	-139.5	0	%100
6	M6	PX	-139.5	-139.5	0	%100
7	M8	PX	-139.5	-139.5	0	%100
8	M9	PX	-139.5	-139.5	0	%100
9	M10	PX	-139.5	-139.5	0	%100

#### Member Distributed Loads (BLC 3 : Wind Z)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, kip-in/in]	End Magnitude [lb/ft, F, psf, kip-in/in]	Start Location [(in, %)]	End Location [(in, %)]
1	M7	PZ	-139.5	-139.5	0	%100
2	M4	ΡZ	-139.5	-139.5	0	%100
3	M8	P7	-139.5	-139.5	0	%100

### Member Area Loads

No Data to Print

# Basic Load Cases

	BLC Description	Category	Y Gravity	Point	Distributed
1	DL	DL	-1	9	
2	Wind X	WLX		9	9
3	Wind Z	WLZ		9	3



### Moving Loads

No Data to Print ...

# Moving Load Patterns

No Data to Print ...

# Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4 DL	Yes	Y	DL	1.4				
2	1.2 DL + 1.0 Wind X	Yes	Y	DL	1.2	WLX	1		
3	1.2 DL - 1.0 Wind X	Yes	Y	DL	1.2	WLX	-1		
4	1.2 DL + 1.0 Wind Z	Yes	Y	DL	1.2	WLZ	1		
5	1.2 DL - 1.0 Wind Z	Yes	Y	DL	1.2	WLZ	-1		
6	0.9 DL + 1.0 Wind X	Yes	Y	DL	0.9	WLX	1		
7	0.9 DL - 1.0 Wind X	Yes	Y	DL	0.9	WLX	-1		
8	0.9 DL + 1.0 Wind Z	Yes	Y	DL	0.9	WLZ	1		
9	0.9 DL - 1.0 Wind Z	Yes	Y	DL	0.9	WLZ	-1		
10	IBC 16-5 (a)	Yes	Y	DL	1.2	Sds*DL	0.2	ELX	1
11	IBC 16-5 (b)	Yes	Y	DL	1.2	Sds*DL	0.2	ELZ	1
12	IBC 16-5 (c)	Yes	Y	DL	1.2	Sds*DL	0.2	ELX	-1
13	IBC 16-5 (d)	Yes	Y	DL	1.2	Sds*DL	0.2	ELZ	-1
14	IBC 16-7 (a)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELX	1
15	IBC 16-7 (b)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELZ	1
16	IBC 16-7 (c)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELX	-1
17	IBC 16-7 (d)	Yes	Y	DL	0.9	Sds*DL	-0.2	ELZ	-1
18	IBC 16-5 (os-a)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELX	1
19	IBC 16-5 (os-b)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELZ	1
20	IBC 16-5 (os-c)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELX	-1
21	IBC 16-5 (os-d)	Yes	Y	DL	1.2	Sds*DL	0.2	Om*ELZ	-1
22	IBC 16-7 (os-a)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELX	1
23	IBC 16-7 (os-b)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELZ	1
24	IBC 16-7 (os-c)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELX	-1
25	IBC 16-7 (os-d)	Yes	Y	DL	0.9	Sds*DL	-0.2	Om*ELZ	-1

# Load Combination Design

Description Service			Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	1.4 DL		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	1.2 DL + 1.0 Wind X		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	1.2 DL - 1.0 Wind X		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	1.2 DL + 1.0 Wind Z		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	1.2 DL - 1.0 Wind Z		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	0.9 DL + 1.0 Wind X		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	0.9 DL - 1.0 Wind X		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	0.9 DL + 1.0 Wind Z		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	0.9 DL - 1.0 Wind Z		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	IBC 16-5 (a)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	IBC 16-5 (b)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	IBC 16-5 (c)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	IBC 16-5 (d)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	IBC 16-7 (a)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	IBC 16-7 (b)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	IBC 16-7 (c)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	IBC 16-7 (d)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	IBC 16-5 (os-a)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	IBC 16-5 (os-b)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

### Load Combination Design (Continued)

	Description	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
20	IBC 16-5 (os-c)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21	IBC 16-5 (os-d)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22	IBC 16-7 (os-a)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23	IBC 16-7 (os-b)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24	IBC 16-7 (os-c)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25	IBC 16-7 (os-d)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

#### Node Reactions

No Data to Print...

# AISC 15TH (360-16): LRFD Member Steel Code Checks

No Data to Print..

# Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks

l	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-in]	phi*Mn z-z [k-in]	Cb	Eqn
1	M1	HSS4X4X4	0.21	0	4	0.12	8	у	4	139258.732	139518	194.166	194.166	1.666	H1-1b
2	M2	HSS4X4X4	0.2	0	5	0.12	8	y	5	139258.732	139518	194.166	194.166	1.666	H1-1b
3	M7	PIPE_3.0XX	0.569	74.25	5	0.084	75.375		5	125937.981	162855	154.035	154.035	1	H1-1b
4	M4	PIPE_3.0XX	0.569	74.25	5	0.084	75.375		5	125937.981	162855	154.035	154.035	1	H1-1b
5	M5	HSS4X4X4	0.21	0	4	0.12	8	y	4	139258.732	139518	194.166	194.166	1.666	H1-1b
6	M6	HSS4X4X4	0.2	0	5	0.12	8	y	5	139258.732	139518	194.166	194.166	1.666	H1-1b
7	M8	PIPE_3.0XX	0.569	74.25	5	0.084	75.375		5	125937.981	162855	154.035	154.035	1	H1-1b
8	M9	HSS4X4X4	0.21	0	4	0.12	8	у	4	139258.732	139518	194.166	194.166	1.666	H1-1b
9	M10	HSS4X4X4	0.2	0	5	0.12	8	у	5	139258.732	139518	194.166	194.166	1.666	H1-1b







# **ASCE 7 Hazards Report**

Standard:ASCE/SEI 7-16Risk Category:IISoil Class:D - Stiff Soil

 Elevation:
 6.05 ft (NAVD 88)

 Latitude:
 26.779169

 Longitude:
 -80.033114



# Wind

# **Results:**

Wind Speed	170 Vmph
10-year MRI	89 Vmph
25-year MRI	112 Vmph
50-year MRI	127 Vmph
100-year MRI	138 Vmph

Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs.	CC.2-1-CC.2-4, and Section 26.5.2
Date Accessed:	Sun Feb 27 2022	

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings shall be protected against wind-borne debris as specified in Section 26.12.3.



Site Soil Class: Results:	D - Stiff Soil		
S <sub>s</sub> :	0.045	S <sub>D1</sub> :	0.039
S <sub>1</sub> :	0.024	T <sub>L</sub> :	8
F <sub>a</sub> :	1.6	PGA :	0.021
F <sub>v</sub> :	2.4	PGA M:	0.033
S <sub>MS</sub> :	0.071	F <sub>PGA</sub> :	1.6
S <sub>M1</sub> :	0.058	l <sub>e</sub> :	1
S <sub>DS</sub> :	0.048	<b>C</b> <sub>v</sub> :	0.7
Seismic Design Category	А		

Seismic Design Category









# **Data Accessed:**

Sun Feb 27 2022

# **Date Source:**

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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				PARTS LIST			
	ITEM	I QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
	1	1	X-WWM01	8" STAND-OFF ARM / WALL MOUNT		18.12	18.12
	2	4	G58LW	5/8" HDG LOCKWASHER		0.03	0.10
	3	4	A58FW	5/8" HDG A325 FLATWASHER		0.03	0.14
	4	4	A58NUT	5/8" HDG A325 HEX NUT		0.13	0.52
	5	4	A582112	5/8" x 2-1/2" HDG A325 HEX BOLT		0.33	1.34
	6	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	1.31
2-3/8" OD PIPE, 2-7/8" OD PIPE or 3-1/2" OD PIPE,	6	2	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.70	1.39
PIPE NOT INCLUDED.	6	2	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" GALV U-BOLT		0.77	1.54
	7	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
	8	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
	9	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
						TOTAL WT. #	24.95
(23	Image: wide wide wide wide wide wide wide wide			6789			
	DETA	<u>AIL A</u>					

TOLERANCE NOTES TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE	DESCRIPTIC	N 8" STAND-OF WIRELESS WALL N SITE PRO 1	FF MOUNT.	Engineering Support Team: 1-888-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")	CPD NO. 4714	DRAWN BY RH18 3/23/2010	ENG. APPROVAL	PART NO. WWM01	1 0
PROPHIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT MOUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRUCTLY PROHIBITED.	CLASS SUB	DRAWING USAGE CUSTOMER	снескер ву ВМС 5/10/2010	DWG. NO. WWM01	<u>ب</u> ۲



# **DISH Wireless L.L.C. SITE ID:** MIMIA00378A

DISH Wireless L.L.C. SITE ADDRESS:

# 125 S OCEAN AVE PALM BEACH SHORES, FL 33404

# FLORIDA CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES: <u>CODE TYPE</u> <u>CODE</u>

BUILDING MECHANICAL ELECTRICAL

2020 FLORIDA BUILDING CODE 6TH EDITION/2018 IBC 2020 FLORIDA BUILDING CODE 6TH EDITION/2018 IMC 2020 FLORIDA BUILDING CODE 6TH EDITION/2017 NEC

	SHEET INDEX	
HEET NO.	SHEET TITLE	1 Par
T-1	TITLE SHEET	A STATE
		and the second second
A-1	OVERALL SITE PLAN	Charles and the
A-2	ENLARGED BUILDING PLAN	
A-3	ANTENNA PLAN, ELEVATION AND SCHEDULE	
A-4	NORTH AND WEST ELEVATIONS	
Δ-5	FOLLIPMENT AREA DETAILS	
A-6		
A-7	EQUIPMENT DETAILS	
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES	Sector Se
E-1A	ELECTRICAL/FIBER ROUTE PLAN AND NOTES	
E-2	ELECTRICAL DETAILS	
E-3	ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE	
G-1	GROUNDING PLANS AND NOTES	
G-2	GROUNDING DETAILS	
G-3	GROUNDING DETAILS	
RF-1	RF CABLE COLOR CODE	
	RE SIGNAGE	THE FACILITY IS UNMAN
	CENERAL NOTES	DRAINAGE. NO SANITAR
GN-4	GENERAL NOTES	SIGNAGE IS PROPOSED.
GN-5	GENERAL NOTES	
		11"x17" PI
		CONTRA The lor site and

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# SCOPE OF WORK

- INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER T. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. LLY CONSISTS OF THE FOLLOWING: ORK: POSED PANEL ANTENNAS (1 PER SECTOR) POSED ANTENNA MOUNTS (2 PER SECTOR, 6 TOTAL)
- JUMPERS OSED RRUS (2 PER SECTOR, 6 TOTAL)
- OSED OVER VOLTAGE PROTECTION DEVICE (OVP) (1 PER SECTOR, 3 TOTAL) OSED POWER CABLE OSED FIBER TRUNKS
- WORK:
- OSED CUSTOM METAL ANTENNA MOUNT OSED PENETRATING CABLE SUPPORTS
- OSED BBU IN CABINET
- OSED EQUIPMENT CABINET OSED POWER CONDUIT
- OSED TELCO CONDUIT
- OSED NEMA 3 TELCO-FIBER BOX OSED GPS UNIT
- -LOCK

# SITE PHOTO

# **UNDERGROUND SERVICE ALERT - SUNSHINE 811** UTILITY NOTIFICATION CENTER OF FLORIDA (800) 432-4770 WWW.SUNSHINE811.COM



CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

# **GENERAL NOTES**

ITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED NE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL

# 1"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON OB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

SITE INF	ORMATION	PROJECT DIRECTORY				
PROPERTY OWNER: ADDRESS:	MAYAN TOWERS CONDOMINIUMS 125 S OCEAN AVE PALM BEACH SHORES, FL 33404	APPLICANT:	DISH W 5701 S LITTLET(	ireless L.L.C. OUTH SANTA FE DRIVE DN, CO 80120		
TOWER TYPE:	ROOFTOP	TOWER OWNER	PRIVATE	OWNER		
TOWER CO SITE ID:	N/A					
TOWER APP NUMBER:	N/A					
COUNTY:	PALM BEACH	SITE DESIGNER:	TOWER 326 TR	ENGINEERING PROFESSIONAL YON RD		
LATITUDE:	26°46′45.01″N 26.779169N		RALEIGH	H, NC 27603		
LONGITUDE:	80°01'59.21"W 80.033114W					
ZONING JURISDICTION:	CITY OF PALM BEACH	SITE ACQUISITION	:	JESSICA ROSS JESSICA.ROSS@DISH.COM		
ZONING DISTRICT:	UNKNOWN					
PARCEL NUMBER:	5443422708000	CONSTRUCTION M	IANAGER:	JOSHUA VEGA JOSHUA.VEGA@DISH.COM		
OCCUPANCY GROUP:	U	RF ENGINEER:		GUILLERMO AROCHA RODRIGUEZ		
CONSTRUCTION TYPE:	V-B					
POWER COMPANY:	FPL					
TELEPHONE COMPANY:	UNKNOWN					

# DIRECTIONS

DIRECTIONS FROM PALM BEACH INTERNATIONAL AIRPORT: HEAD WEST ON JAMES L TURNAGE BLVD. KEEP LEFT TO STAY ON JAMES L TURNAGE BLVD. TAKE THE RAMP ONTO I-95 N. MERGE ONTO I-95 N. IN 6,2 MI USE THE RIGHT LANE TO TAKE EXIT 76 FOR FL-708/BLUE HERON BLVD. KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR RIVIERA BCH/PORT OF PALM BCH/PALM BCH SHORES AND MERGE ONTO FL-708 E/W BLUE HERON BLVD. IN 3.7 MI TURN RIGHT ONTO LAKE DR. TURN LEFT ONTO SANDAL LN. TURN RIGHT ONTO S OCEAN AVE. DESTINATION WILL BE ON THE LEFT.















EXISTING PENTHOUSE FLOOR 2		PROPOSED DISH WIRELESS WALL-MOUNTED EQUIPMEN
EXISTING PENTHOUSE FLOOR 1		
EXISTING BUILDING ROOF		
GROUND ELEVATION		
₽ REFERENCE @ 0'−0" AGL		
	K  K  K  K  K  K  K  K  K  K  K  K  K	KI K
		PROPOSED DISH WIRELESS, L.L.C. GPS UNIT
PROPOSED DISH WIRELESS, LLC. AN RAD CENTER @ 89'-2" AGL	ITENNA (TYP OF (1) PER SECTOR, (3) TOTAL)	PROPOSED DISH WIRELESS, L.L.C. GPS UNIT
PROPOSED DISH WIRELESS, LLC. AN RAD CENTER @ 89'-2" AGL EXISTING PENTHOUSE FLOOR 2 88'-5" AGL	ITENNA (TYP OF (1) PER SECTOR, (3) TOTAL)	PROPOSED DISH WIRELESS, L.L.C. GPS UNIT PROPOSED DISH WIRELESS, L.L.C. WALL-MOUNTED EQUIPMENT
PROPOSED DISH WIRELESS, LLC. AN RAD CENTER @ 89'-2" AGL EXISTING PENTHOUSE FLOOR 2 88'-5" AGL EXISTING PENTHOUSE FLOOR 1 79'-10" AGL	ITENNA (TYP OF (1) PER SECTOR, (3) TOTAL)	PROPOSED DISH WIRELESS, L.L.C. GPS UNIT PROPOSED DISH WIRELESS, L.L.C. WALL-MOUNTED EQUIPMENT
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PROPOSED DISH WIRELESS, LLC. AN RAD CENTER @ 89'-2" AGL EXISTING PENTHOUSE FLOOR 2 88'-5" AGL EXISTING PENTHOUSE FLOOR 1 79'-10" AGL EXISTING BUILDING ROOF 70'-7" AGL	ITENNA (TYP OF (1) PER SECTOR, (3) TOTAL)	PROPOSED DISH WIRELESS, L.L.C. PROPOSED DISH WIRELESS, L.L.C. WALL-MOUNTED EQUIPMENT
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<u>NOT USED</u>	NO SCALE	4	<u>NOT USED</u>







![](_page_56_Figure_0.jpeg)

![](_page_56_Figure_1.jpeg)

# UTILITY ROUTE NORTH ELEVATION

NOTES	
1 CONTRACTOR SHALL FIFLD VERIEV ALL DIMENSIONS	
<ol> <li>CONTRACTOR TO VERIFY POWER &amp; FIBER PATH DRIOR TO CONSTRUCTION</li> </ol>	
3. METER MOUNTED IN THE ELECTRICAL ROOM	
EUCATED IN THE 8TH FLOOR NEXT TO EAST ELEVATOR. WILL NEED BUILDING MAINTENANCE FOR ROOM ACCESS.	wireless
	5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
	TOWER ENGINEERING PROFESSIONALS
	326 TRYON RD. RALEIGH, NC 27603 OFFICE: (919) 661–6351 FL COA# 31011
	CENSE
	* * *
	TO STATE OF
	THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY JOSHUA H. CARDEN, P.E. ON 10–20–22 USING A DIGITAL SIGNATURE.
	PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. $10/20/2022$
	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
	DRAWN BY: CHECKED BY: APPROVED BY:
	RJB CC CC
	CONSTRUCTION
	DOCUMENTS
	SUBMITTALS
	REVDATEDESCRIPTION005/17/2021PRELIMINARY
	1 06/03/2021 PRELIMINARY
	2         08/06/2021         PRELIMINARY           3         04/22/2022         CONSTRUCTION
	4 09/28/2022 CONSTRUCTION 5 10/20/2022 CONSTRUCTION
	A&E PROJECT NUMBER
	DISH Wireless L.L.C. PROJECT INFORMATION
	MIMIA00378A 125 S OCEAN AVE PALM BEACH SHORES, FL
	55404 Sheet Title
	ELECTRICAL/FIBER ROUTE PLAN AND NOTES
	SHEET NUMBER
6' 4' 2' 0 5' 10' l	E-1A
3/16"=1'-0"	

	DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -4 RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V	18V CONDUCTOF	RS.	
_	THE MUNICIPALE DENTIFY FILL DEDE MARTINGS SHALL DENTIFY FOUR			DISH Wireless L.L.C. PROVIDES 12AWG WIRE (6' TAIL) ————
1.	CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. ANY DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.	SING DJECT	PROPOSED DISH Wireless	
2.	ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRIC STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING REQUIRED TO MEET NEC STANDARDS.	) ALL	L.L.C. UNISTRUI	
3.	LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXINC COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.	MATE AND SHAL	L BE	PROPOSED DISH Wireless L.L.C.
4.	CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.	LOCATION CONF	FLICTS.	10 AMP DISTRIBUTION BREAKER
5.	CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A	A COMPLETE SY	STEM.	
6.	CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE NE	EC ARTICLE 314	ŀ.	PROPOSED DISH Wireless
7.	CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE A INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECO	SSEMBLIES. MMENDATIONS.		PROPOSED DISH Wireless 1-1/2" POWER FROM C DISH Wireless L.L.C. INS
8.	ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENC INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD L	DLIC NAMEPLATE OCATIONS FED	S FROM.	1–1/2" CONDUITS FOR AND FIBER TO CABINET-
9.	INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATION THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PU DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.	S AND NEC 25 ULL BOXES, AN	O. D ALL	<u>DARK TEL</u>
10.	ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.			ME
11.	PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQ	UIPMENT.		
				A SECTION A-A C C C C C C C C C C C C C C C C C C
	ELECTRICAL NOTES	NO SCALE	1	
	<u>NOT USED</u>	NO SCALE	6	

![](_page_57_Figure_1.jpeg)

RED NOTE: FIBER WILL NEED ADDITIONAL 2 U-BOLTS IN THE EVEN BRACKET SP LINE UP WIT SPACING BE OUT FIBER PROVI TELCO BOX INSTALL 1-1 CONNECTORS MATERIAL, W FIBER PROVI 1-1/4" FLE FDP TELCO PROPOSED I 1-1/2" FIBER PROPOSED I 1-1/2" FIBER	PROVIDER TO PROVIDE AN 5FT UNISTRUT, WITH 4 NUTS, JT THE ACING DOESN'T H CURRENT LOW DER TO PUNCH OF NID ENCLOSU /4" LIQUID TIGH 5, UL LISTED, NY ITH O-RING GASI DER TO INSTALL X CONDUITS BET BOX & NID DISH Wireless L.L R TO CABINET DISH Wireless L.L FROM COMMERC	TOP OF JRE AND IT /LON KET WEEN C. C. C. :.AL	Odestination         State         State
<u>AYOUT (OPTIONAL)</u>	NO SCALE	3	
NO. C-BJ-8020 CONCRETE FLOOR/WALL OR BLOCK RATING = 0-HR OR 2-HR. (2HR FIRE RATING): AL WEIGHT CONCRETE FLOOR OR -CORE) CONCRETE FLOOR (MINIM CONCRETE BLOCK WALL. DLOWING METALLIC PENETRANTS IN CEXCEED 1" NOMINAL DIAMETER): DIAMETER STEEL PIPE (SCHEDULE DIAMETER STEEL PIPE (SCHEDULE DIAMETER STEEL CONDUIT OR EMT ETER COPPER PIPE OR TUBING (IN WER CABLE (MAX QTY. =3) MAYE MINERAL WOOL (MIN. 4PCF DENSI S-ONE INTUMESCENT FIRESTOP S	WALL (MINIMUM 6 UM 6" THICK). MAY BE WITHIN 10 OR HEAVIER) PIPE. MAX QTY. = 2) BE WITHIN GROUP TY) TIGHTLY PAC EALANT.	6" ). MAY PING. SKED.	THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY JOSHUA H. CARDEN, P.E. ON 10-20-22 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC
C GLASS-FIBER PIPE INSULATION RANTS, RESTING FLUSH WITH TOP	(12"HIGH) INSTAL SURFACE OF FL	_LED .oor.	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION
NING = 4" O", MAXIMUM 2". MBINATION OF THE ABOVE LISTED BE INSTALLED WITHIN THE OPENIN TING = 2HR. ISED, APPLY A MINIMUM 1/2" DEI LANT BETWEEN THE GROUPING OF SH WITH TOP END OF INSULATION. FS-ONE INTUMESCENT FIRESTOP	PIPES, TUBING, IG. PTH HILTI FS—ON PENETRANTS AI SEALANTIS REQUI	IE ND RED	OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. DRAWN BY: CHECKED BY: APPROVED BY: RJB CC CC RFDS REV #: 6 CONSTRUCTION
IROUGH	NO. SCALE	5	DOCUMENTS
<u>/ WALL</u>			REV     DATE     DESCRIPTION       0     05/17/2021     PRELIMINARY       1     06/03/2021     PRELIMINARY       2     08/06/2021     PRELIMINARY       3     04/22/2022     CONSTRUCTION       4     09/28/2022     CONSTRUCTION       5     10/20/2022     CONSTRUCTION       5     10/20/2022     CONSTRUCTION       6     A&E     PROJECT       0     A&E     PROJECT       0     DISH     Wireless       0     DISH     Wireless       0     DISH     Wireless       125     S     OCEAN       AVE     PALM     BEACH       SHEET     TITLE       ELECTRICAL     DETAILS       SHEET     NUMBER       FL2     SHEET
	NO SCALE	8	

![](_page_58_Figure_0.jpeg)

					NOTES			
ENERATOR GEN PLUG	F 1 C N	PROPOSED POWER PROTECTIVE CABINET 20/240V, 1 PH, SERVICE RATED, OVERALL UL LISTED POWER CENTER, N3R, 65K/10K AIC SERIES RATED		ENERSYS NETWORK CABINET ALPHA CORDEX DC PLANT	THE (3) CONDUITS WITH (4) CURRENT CARRYING CONDUCTORSTHE ADJUSTMENT FACTOR OF 80% PER 2020 NEC TABLE 310WIRE. (ALL WIRE AND TERMINATION HARDWARE TO BE RATED 7#12 FOR 15A OCPD#12 FOR 15A OCPDWIRE DERATING: 0#12 FOR 20A OCPDWIRE DERATING: 0#8 FOR 40A OCPDWIRE DERATING: 0	5 EACH, SHALL A .15(C)(1) FOR U 75°C) 0.8 x 25A = 20. 0.8 x 25A = 20. 0.8 x 50A = 40.	PPLY 11015 .0A .0A .0A	dish
AC 200A	200	OA MAIN BREAKER WITH INTERLOCKED GENERATOR FEED, 200A 10K AIC	(3) PROPOSED .75" EMT CONDUIT		CONDUIT SIZING: AT 40% FILL PER NEC CHAPTER 9, TABLE 4, .75" CONDUIT – .2130 SQ. IN AREA 3.0" CONDUIT – 3.538 SQ. IN AREA (3 CONDUITS): USING THWN-2, CU.	ARTICLE 358.		5701 SOUTH SANTA FE DRIVE
01 0 15A 03 0 15A 05 0 SPACE 07 0 SPACE 07 0	$\begin{array}{c} 02 \\ 04 \\ \hline 06 \\ \hline 08 \\ \hline 40A \\ \hline 40A \\ \hline 08 \\ \hline \end{array}$	PROPOSED 2#8, 1#8 SHARED GND. PROPOSED 2#8		FOR RECTIFIER 1	RECTIFIERS $ \begin{array}{rcl} \#8 & - & 0.0366 & \text{SQ. IN X 4} = & 0.1464 & \text{SM} \\ \#8 & - & 0.0366 & \text{SQ. IN X 1} = & 0.0366 & \text{SM} \\ \hline & & & & & & \\ \hline & & & & & \\ $	Q. IN Q. IN <ground . IN. 5Q. IN</ground 		LITTLETON, CO 80120
SPACE SPACE SPACE SPACE SPACE 13 SPACE 15 SPACE 17	$\frac{10}{12}$	PROPOSED 2#12, 1#12 SHARED GND.		- FOR RECTIFIER 3	$ \begin{array}{rcl} \#12 & - & 0.0211 & \text{SQ. IN X 1} = & 0.1055 & \text{SQ. IN X 4} = & 0.0844 & \text{SQ. IN X 4} = & 0.0844 & \text{SQ. IN X 1} = & 0.0211 & \text{SQ. IN X 1} = & 0$	SQ. IN <ground . IN SQ. IN SQ. IN <ground< td=""><td>)</td><td></td></ground<></ground 	)	
SPACE SPACE SPACE SPACE SPACE SPACE	SPACE 20 SPACE 22 SPACE 24 SPACE				.1" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (5) INCLUDING GROUND WIRE, AS INDICATED ABOVE.	. IN. WIRES,		TOWER ENGINEERING PROFESSIONALS 326 TRYON RD. RALEIGH, NC 27603 OFFICE: (919) 661–6351 FL COA# 31011
		PROPOSED 2#12		FOR CONVENIENCE OUTLET	3/0 - 0.2679 SQ. IN X 3 = 0.8037 S #6 - 0.0507 SQ. IN X 1 = 0.0507 SQ	Q. IN Q. IN <ground< td=""><td></td><td></td></ground<>		
RCUIT WIRING SUPPL E-LINE DIAGRAM. CO <u>REQUIRED: (OR EQU</u> P BREAKER – SQUA P BREAKER – SQUA P BREAKER – SQUA	LYING REC DNTRACTO JIVALENT I ARE D P/ ARE D P/ ARE D P/	CTIFIERS ARE TO BE RATED UL1015, 105° R MAY SUBSTITUTE UL1015 WIRE FOR TH <u>MANUFACTURER)</u> (N:Q0240 (N:Q0220 (N:Q0120	'C, 600V, AND PVC INS WN-2 FOR CONVENIEN(	ULATED, IN THE SIZES SHOWN CE OUTLET BRANCH CIRCUIT.	TOTAL = 0.8544 S 3.0" SCH 40 PVC CONDUIT IS ADEQUATE TO HANDLE THE TOTAL INCLUDING GROUND WIRE, AS INDICATED ABOVE. <u>KEYNOTES</u>	Q. IN AL OF (4) WIRES	Э, ОТ"	No 83511
					<ul> <li>SEPERATELY DERIVED. DO NOT BOND NEUTRAL AT GENERTC</li> <li>OPTIONAL ALUMINUM SERVICE CONDUCTOR:         <ul> <li>250 KCMIL AL + #2 GRD MAY BE USED INSTEAD OF 3 THE TOTAL LENGTH OF THE CONDUCTOR IS LESS THAN TRANSFORMER.</li> <li>ALUMINUM TO COPPER BUSS CONNECTIONS MUST MEET AND BE UL LISTED. USE ANTI CORROSION CONDUCTIVE CONNECTIONS</li> </ul> </li> </ul>	R. /0 CU + #6 GRD 300 FT FROM THE AND CONFORM TO LUBRICANT ON	IF ANSI	THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY JOSHUA H. CARDEN, P.E. ON 10-20-22 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. 10/20/2022
								IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
<u>PPC</u>	<u>C ONE</u>	-LINE DIAGRAM				NO SCALE	1	RJB CC CC
								RFDS REV #: 6 CONSTRUCTION DOCUMENTS
								SUBMITTALSREVDATEDESCRIPTION005/17/2021PRELIMINARY106/03/2021PRELIMINARY
								2       08/06/2021       PRELIMINARY         3       04/22/2022       CONSTRUCTION         4       09/28/2022       CONSTRUCTION         5       10/20/2022       CONSTRUCTION
								A&E PROJECT NUMBER 250655
								DISH Wireless L.L.C. PROJECT INFORMATION
								MIMIAOO378A 125 S OCEAN AVE PALM BEACH SHORES, FL 33404
								SHEET TITLE ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE SHEET NUMBER
				· · · · · · · ·				E-3
NO SCA	ALE .	2		<u>NOT USED</u>		NO SCALE	3	

				NOTES			
NERATOR EN PLUG /ICE	PROPOSED POWER PROTECTIVE CABINET 120/240V, 1 PH, SERVICE RATED, OVERALL UL LISTED POWER CENTER, N3R, 65K/10K AIC SERIES RATED		ENERSYS NETWORK CABINET ALPHA CORDEX DC PLANT	THE (3) CONDUITS WITH (4) CURRENT CARRYING CONDUCTORS THE ADJUSTMENT FACTOR OF 80% PER 2020 NEC TABLE 310. WIRE. (ALL WIRE AND TERMINATION HARDWARE TO BE RATED 7 #12 FOR 15A OCPD WIRE DERATING: 0 #12 FOR 20A OCPD WIRE DERATING: 0 #8 FOR 40A OCPD WIRE DERATING: 0	EACH, SHALL A 15(C)(1) FOR U 5°C) 0.8 x 25A = 20 0.8 x 25A = 20 0.8 x 50A = 40	APPLY IL1015 .0A .0A .0A	dish
200A 65K AIC N PRESSION (A MOV	200A MAIN BREAKER WITH INTERLOCKED GENERATOR FEED, 200A 10K AIC	(3) PROPOSED .75" EMT CONDUIT		CONDUIT SIZING: AT 40% FILL PER NEC CHAPTER 9, TABLE 4, .75" CONDUIT – .2130 SQ. IN AREA 3.0" CONDUIT – 3.538 SQ. IN AREA	ARTICLE 358.		5701 SOUTH SANTA EF DRIVE
$\begin{array}{c cccc} & 01 & 02 \\ \hline 15A & 03 & 04 \\ \hline 15A & 15A \\ \hline \end{array}$	DA PROPOSED 2#8, 1#8 SHARED GND.		- FOR RECTIFIER 1	(3 CONDUITS): USING THWN-2, CU. RECTIFIERS #8 - 0.0366 SQ. IN X 4 = 0.1464 SC #8 - 0.0366 SQ. IN X 1 = 0.0366 SC	Q. IN Q. IN <ground< td=""><td></td><td>LITTLETON, CO 80120</td></ground<>		LITTLETON, CO 80120
SPACE 07 08 40 SPACE 07 08 40 SPACE 09 10	DA PROPOSED 2#8		- FOR RECTIFIER 2	TOTAL = 0.1830 SQ. GENERATOR ASSCESSORIES #12 - 0.0211 SQ. IN X 4 = 0.0844 S #12 - 0.0211 SQ. IN X 1 = 0.0211 SQ.	. IN. 5Q. IN 5Q. IN <ground< td=""><td>)</td><td></td></ground<>	)	
SPACE     12     20       SPACE     13     14       SPACE     13     14       SPACE     15     16       SPACE     20	DA PROPOSED 2#12, 1#12 SHARED GND.		- FOR RECTIFIER 3	$\begin{array}{rcl} & & & \\ \hline TOTAL & = & 0.1055 & SQ. \\ RECTIFIER & GFCI & CIRCUIT \\ & & & \\ \#12 & - & 0.0211 & SQ. & IN & X & 4 & = & 0.0844 & SG. \\ & & & & \\ \#12 & - & 0.0211 & SQ. & IN & X & 1 & = & 0.0211 & SG. \\ \hline \end{array}$	N SQ. IN SQ. IN <ground< td=""><td>)</td><td></td></ground<>	)	
SPACE				TOTAL = 0.1055 SQ. .1" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (5) INCLUDING GROUND WIRE, AS INDICATED ABOVE.	. IN. WIRES,		TOWER ENGINEERING PROFESSIONALS 326 TRYON RD. RALEIGH, NC 27603 OFFICE: (919) 661–6351 FL COA# 31011
SPACE SPAC	PROPOSED 2#12		FOR CONVENIENCE OUTLET	PPC FEED CONDUCTORS (1 CONDUIT): USING THWN, CU. 3/0 - 0.2679 SQ. IN X 3 = 0.8037 SC #6 - 0.0507 SQ IN X 1 = 0.0507 SC	2. IN		
CUIT WIRING SUPPLYING R -LINE DIAGRAM. CONTRACT	RECTIFIERS ARE TO BE RATED UL1015, 105° TOR MAY SUBSTITUTE UL1015 WIRE FOR TH	C, 600V, AND PVC INS WN-2 FOR CONVENIEN	ULATED, IN THE SIZES SHOWN CE OUTLET BRANCH CIRCUIT.	$\frac{1}{70} = 0.0307 \text{ sg. in } x + 1 = 0.0307 \text{ sg.}$ $TOTAL = 0.8544 \text{ sg.}$ $3.0^{"}  sch 40 PVC CONDUIT IS ADEQUATE TO HANDLE THE TOTAL INDUCATED ADOVE$	Q. IN KURDAL OF (4) WIRES	ò,	DSHLICENS
EQUIRED: (OR EQUIVALENT BREAKER – SQUARE D BREAKER – SQUARE D BREAKER – SQUARE D	<u>T_MANUFACTURER)</u> P/N:Q0240 P/N:Q0220 P/N:Q0120			KEYNOTES		<u>от"</u>	TO STATE OF
BREAKER – SQUARE D	P/N:QUII5			<ul> <li>1 GENERAC GTS ZOUA TRANSFER SWITCH. OPTIONAL EMERGEN SEPERATELY DERIVED. DO NOT BOND NEUTRAL AT GENERTO</li> <li>2 OPTIONAL ALUMINUM SERVICE CONDUCTOR: <ul> <li>2 OPTIONAL ALUMINUM SERVICE CONDUCTOR: <ul> <li>250 KCMIL AL + #2 GRD MAY BE USED INSTEAD OF 3, THE TOTAL LENGTH OF THE CONDUCTOR IS LESS THAN</li> </ul> </li> </ul></li></ul>	/0 CU + #6 GRD	IF	THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY
				<ul> <li>TRANSFORMER.</li> <li>ALUMINUM TO COPPER BUSS CONNECTIONS MUST MEET AND BE UL LISTED. USE ANTI CORROSION CONDUCTIVE CONNECTIONS</li> </ul>	AND CONFORM TO LUBRICANT ON	ANSI	JOSHUA H. CARDEN, P.E. ON 10–20–22 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. 10/20/2022
							UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
<u>PPC ON</u>	IE-LINE DIAGRAM				NO SCALE	1	DRAWN     BY:     CHECKED     BY:     APPROVED     BY:       RJB     CC     CC
							CONSTRUCTION
							DOCUMENTS SUBMITTALS
							REVDATEDESCRIPTION005/17/2021PRELIMINARY106/03/2021PRELIMINARY
							2     08/06/2021     PRELIMINARY       3     04/22/2022     CONSTRUCTION       4     09/28/2022     CONSTRUCTION
							A&E PROJECT NUMBER
							250655 DISH Wireless L.L.C. PROJECT INFORMATION
							MIMIA00378A 125 S OCEAN AVE PALM BEACH SHORES, FL 33404
							SHEET TITLE ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE
							SHEET NUMBER
NO SCALE	2		<u>NOT USED</u>		NO SCALE	3	E-3
						-	

![](_page_59_Figure_0.jpeg)

	EXOTHERMIC CONNECTION     MECHANICAL CONNECTION
	GROUND BUS BAR
	<u>GROUNDING LE</u>
	1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
	2. CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COM COMPLIANCE WITH NEC SECTION 250 AND DISH Wireless REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
	3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUN
	4. NO EXOTHERMIC WELDING ON ROOFTOP
	GROUNDING ROOFTOP
	(A) <u>Exterior ground ring:</u> #2 awg solid copper, buried a grade, or 6 inches below the frost line and approxi or footing.
	(B) <u>ROOFTOP GROUND SYSTEM:</u> THE GROUND SYSTEM USING MIN
	C INTERIOR GROUND RING: #2 AWG STRANDED GREEN INSULATE PERIMETER OF THE EQUIPMENT AREA. ALL NON-TELECOMMUN WITHIN A SITE SHALL BE GROUNDED TO THE INTERIOR GROU INSULATED CONDUCTOR.
	D <u>BOND TO INTERIOR GROUND RING:</u> #2 AWG SOLID TINNED C PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GRO BUILDING OR ROOM.
	E <u>GROUND ROD:</u> UL LISTED COPPER CLAD STEEL. MINIMUM 1 RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROU GROUND RING CONDUCTOR.
	(F) <u>CELL REFERENCE GROUND BAR (CRGB)</u> : POINT OF GROUND EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG U INSULATED COPPER CONDUCTORS. BOND TO COMMON BUILD COPPER CONDUCTORS.
	G <u>HATCH PLATE GROUND BAR:</u> BOND TO THE COMMON BUILDIN GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-P BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HA USING (2) TWO #2 AWG STRANDED GREEN INSULATED COP
	(H) Exterior cable entry port ground bars: located at to ground ring with a #2 awg solid tinned copper c
	I <u>TELCO GROUND BAR:</u> BOND TO BOTH CELL REFERENCE GRO
	J <u>FRAME BONDING:</u> THE BONDING POINT FOR TELECOM EQUIPM IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK
	(K) <u>INTERIOR UNIT BONDS:</u> METAL FRAMES, CABINETS AND INDIVI OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRAND INTERIOR GROUND RING.
	L <u>FENCE AND GATE GROUNDING:</u> METAL FENCES SHALL BE BO SYSTEM WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS
	M <u>Exterior unit bonds:</u> metallic objects, external to of to the common building ground system. Using #2 tint
	N <u>ICE BRIDGE SUPPORTS:</u> EACH ICE BRIDGE LEG SHALL BE BO TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS A GROUND RING
	<ul> <li>DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SY OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY AL INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED CONDUCTOR FROM THE DC POWER SYSTEMS ARE EQUIPPED</li> </ul>
	REFERENCE GROUND BAR
	REFER TO DISH Wireless L.L.C. GROUNDING NOTES.
4' 2' 0 4' 8	3' 1
1/4"=1'-0"	

![](_page_59_Figure_2.jpeg)

AT THE ENTRANCE TO THE CELL SITE ROOM. BOND PER CONDUCTORS WITH MECHANICAL CONNECTIONS.

GROUND BAR OR EXTERIOR GROUND RING.

EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT EWORK.

INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA STRANDED GREEN INSULATED COPPER BOND TO THE

BE BONDED TO THE COMMON BUILDING GROUND UCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. ROSS GATE OPENINGS.

TO OR MOUNTED TO THE BUILDING, SHALL BE BONDED #2 TINNED SOLID COPPER WIRE

BE BONDED TO THE GROUND RING WITH #2 AWG BARE ELDS AT BOTH THE ICE BRIDGE LEG AND BURIED

DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS FERY ADDITIONS, BATTERY REPLACEMENTS AND EMS IT SHALL BE REQUIRED THAT SERVICE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE

ALLY BONDED TO COMMON BUILDING GROUND SYSTEM.

NO SCALE

TO 2	WER EN 326 TR 7603 O	GINEERING PRO YON RD. RALE FFICE: (919) 6 FL COA# 3107	DFESSIONALS IGH, NC 561-6351 11		
THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED & SEALED BY					
PRINTED SEALED COPIES.	AND THE SIG	HIS DOCUMENT ARE NOT NATURE MUST BE VERIFIED	CONSIDERED SIGNED & ON ANY ELECTRONIC 10/20/2022		
IT UNLE	IS A VIOLA ESS THEY OF A LICEN TO	ATION OF LAW FOR ARE ACTING UNDER ISED PROFESSIONA ALTER THIS DOCUM	ANY PERSON, THE DIRECTION L ENGINEER, IENT.		
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2	08/06/20	21 PRELIMINARY			
3	04/22/20	22 CONSTRUCTION			
4	09/28/20	22 CONSTRUCTION			
5	10/20/20	22 CONSTRUCTION			
A&E PROJECT NUMBER					
		250655			
	DIS	SH Wireless L.I DJECT INFORMA	L.C. TION		
MIMIA00378A					

125 S OCEAN AVE PALM BEACH SHORES, FL 33404 SHEET TITLE

GROUNDING PLANS AND NOTES

SHEET NUMBER

**G-1** 

![](_page_60_Figure_0.jpeg)

![](_page_61_Figure_0.jpeg)

RF JUMPER COLOR CODING	3/4" TAPE WIDTHS WITH 3/4" SPACING				
LOW–BAND RRH – (600MHz N71 BASEBAND) + (850MHz N26 BAND) + (700MHz N29 BAND) – OPTIONAL PER MARKET	ALPHA RRH       BETA RRH       BETA RRH       GAMMA RRH         PORT 1       PORT 2       PORT 3       PORT 4       PORT 1       PORT 2       PORT 3       PORT 2       PORT 1       PORT 2       PORT 3       PORT 2       PORT 1       PORT 2       PORT 4       + SLANT       + SL	H PRT 3 PORT 4 SLANT + SLANT REEN GREEN		LOW BANDS (N71-N28) OPTIONAL - (N29) ORANGE	AWS (N65+N70+H-BLOCK) PURPLE
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)	ORANGE       ORANGE       RED       ORANGE       ORANGE       BLUE       ORANGE	REEN GREEN ANGE ORANGE WHITE (1) PORT		CBRS TECH (3 GHz) YELLOW	NEGATIVE SLANT PORT ON ANTRRH WHITE
MID-BAND RRH – (AWS BANDS N66+N70)	RED       RED       RED       BLUE       BLUE       BLUE       BLUE       GREEN       GREN       GREN       GREN	REEN GREEN		ALPHA SECTOR BETA SECTOR RED BLUE	GAMMA SEC
ADD FREQUENCY COLOR TO SECTOR BAND (CBRS WILL USE YELLOW BANDS)	WHITE (1) PORT (1) PORT (1) PORT (1) PORT	WHITE (1) PORT		<u>COLOR IDENTIFIER</u>	
HYBRID/DISCREET CABLES	EXAMPLE 1 EXAMPLE 2				
INCLUDE SECTOR BANDS BEING SUPPORTED AM LONG WITH FREQUENCY BANDS	RED   BLUE				
EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS					
EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS CBRS ONLY, ALL SECTORS					
HYBRID/DISCREET CABLES LOW-BAND RRH FIBER CABLES HAVE SECTOR STRIPE ONLY	LOW BAND RRH HIGH BAND RRH LOW	AND RRH REEN RPLE			
POWER CABLES TO RRHs	LOW BAND RRH HIGH BAND RRH LOW BAND RRH	AND RRH			
LOW-BAND RRH POWER CABLES HAVE SECTOR STRIPE ONLY	RED     BLUE     BLUE     GREEN     GF	REEN			
	PURPLE PURPLE PURPLE	RPLE		<u>NOT USED</u>	
RET MOTORS AT ANTENNAS	PORT 1/     PORT 1/     PORT 1/       ANTENNA 1     ANTENNA 1     ANTENNA 1       "IN"     "IN"     "IN"				
	RED     BLUE				
MICROWAVE RADIO LINKS LINKS WILL HAVE A 1.5–2 INCH WHITE WRAP WITH THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE. ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH ADDITIONAL MW RADIO.	PRIMARY SECONDARY   WHITE WHITE   RED RED   WHITE WHITE				
MICROWAVE CABINETS WILL REQUIRE P-TOUCH LABELS INSIDE THE CABINET TO IDENTIFY THE LOCAL AND REMOTE SITE ID'S.	RED       WHITE				
	RF CABLE COLOR CODES		no scale 1	NOT USED	

LOW BANDS (N71–N28) OPTIONAL – (N29) ORANGE CBRS TECH (3 GHz) YELLOW LPHA SECTOR AWS (N65+N70+H–BLOCK PURPLE NEGATIVE SLANT POR ON ANTRRH WHITE GAMMA S	) T SECTOR		digitation of the temperature of tem
		2	TOWER ENGINEERING PROFESSIONALS 326 TRYON RD. RALEIGH, NC 27603 OFFICE: (919) 661–6351 FL COA# 31011
			H. C. E. N.         No. 83511         THE DOCUMENT INTS BEEN ELECTRONCALLY STONED & SEALED BY         NO. R. D. A. C. M. D. M. D. M. D.
<u>NOT_USED</u>	NO SCALE	3	SUBMITTALS         SUBMITTALS         REV DATE DESCRIPTION         0       05/17/2021       PRELIMINARY         1       06/03/2021       PRELIMINARY         2       08/06/2021       PRELIMINARY         3       04/22/2022       CONSTRUCTION         4       09/28/2022       CONSTRUCTION         5       10/20/2022       CONSTRUCTION         A&E PROJECT NUMBER         250655         DISH Wireless L.L.C.         PROJECT INFORMATION       MIMIA00378A         125       S       OCEAN         AVE
<u>NOT_USED</u>	NO SCALE	4	33404 SHEET TITLE RF CABLE COLOR CODE SHEET NUMBER RF-1

![](_page_63_Figure_0.jpeg)

ΗT

IGR

ANCHOR BOLT	IN	INCH
ABOVE		
	LB(S)	
ABOVE FINISHED FLOOR		LINEAR FEET
ABOVE FINISHED GRADE	MAS	MASONRY
ABOVE GROUND LEVEL	MAX	ΜΑΧΙΜΙΙΜ
AMPERAGE INTERRUPTION CAPACITY	MB	MACHINE BOLT
ALUMINUM	MECH	MECHANICAL
ALTERNATE	MFR	MANUFACTURER
ANTENNA	MGB	MASTER GROUND BAR
APPROXIMATE	MIN	MINIMUM
ARCHITECTURAL	MISC	MISCELLANEOUS
AUTOMATIC TRANSFER SWITCH	MTL	METAL
AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BATTERY	MW	MICROWAVE
BUILDING	NEC	NATIONAL ELECTRIC CODE
BLOCK	NM	NEWTON METERS
BLOCKING	NO.	NUMBER
BEAM	#	NUMBER
BARE TINNED COPPER CONDUCTOR	NTS	NOT TO SCALE
BOTTOM OF FOOTING	OC	ON-CENTER
	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
	OPNG	OPENING
	P/C	PRECAST CONCRETE
	PCS	PERSONAL COMMUNICATION SERVICES
	PCU	PRIMARY CONTROL UNIT
COMMON	PRC	PRIMARY RADIO CABINET
CONCRETE	PP	POLARIZING PRESERVING
CONSTRUCTION	PSF	POUNDS PER SQUARE FOOT
DOUBLE	PSI	POUNDS PER SQUARE INCH
DIRECT CURRENT	PT	PRESSURE TREATED
DEPARTMENT	PWR	POWER CABINET
DOUGLAS FIR	QIY	
DIAMETER	RAD	RADIUS
DIAGONAL	RECI	RECIFIER
DIMENSION	REINE	REINFORCEMENT
DRAWING		
DOWEL	REQU	
EACH	RE	
ELECTRICAL CONDUCTOR	RMC	
ELEVATION	RRH	REMOTE RADIO HEAD
	RRU	REMOTE RADIO UNIT
ELECTRICAL METALLIC TUBING	RWY	RACEWAY
	SCH	SCHEDULE
	SHT	SHEET
EXTERIOR	SIAD	SMART INTEGRATED ACCESS DEVICE
FACH WAY	SIM	SIMILAR
FABRICATION	SPEC	SPECIFICATION
FINISH FLOOR	SQ	SQUARE
FINISH GRADE	SS	STAINLESS STEEL
FACILITY INTERFACE FRAME	STD	STANDARD
FINISH(ED)	STL	STEEL
FLOOR	IEMP	
FOUNDATION		TOWER MOUNTED AND LEEP
FACE OF CONCRETE		TOF NALL
FACE OF MASONRY		TOP OF ANTENNA
FACE OF STUD		
FACE OF WALL	TOE	TOP OF FOUNDATION
FINISH SURFACE	ТОР	TOP OF PLATE (PARAPET)
FOOT	TOT	
FOOTING	TOW	TOP OF WALL
GAUGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GENERATOR	TYP	TYPICAL
GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
GLUE LAMINATED BEAM	UL	UNDERWRITERS LABORATORY
	UNO	UNLESS NOTED OTHERWISE
GLUBAL PUSITIUNING SYSTEM	UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
CLARAL SYSTEM FOR MODILE	UPS	UNITERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
HOT DIPPED CALVANIZED	VIF	VERIFIED IN FIELD
HFADER	W	WIDE
HANGER	W/	WITH
HEAT/VENTILATION/AIR_CONDITIONING	WD	WOOD
HEIGHT	WP	WEATHERPROOF
· = · · ·		

RATORY RWISE ELECOMMUNICATIONS SYSTEM ER SYSTEM (DC POWER PLANT) **ABBREVIATIONS** 

![](_page_63_Picture_4.jpeg)

		SIGN TYPES
TYPE	COLOR	COLOR CODE PURPOSE
INFORMATION	GREEN	"INFORMATIONAL SIGN" TO NOTIFY OTHERS OF SITE OWNERSHIP & CONTACT NUMBER A
NOTICE	BLUE	<b>"NOTICE BEYOND THIS POINT"</b> RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC OR POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDA COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
CAUTION	YELLOW	<b>"CAUTION BEYOND THIS POINT"</b> RF FIELDS BEYOND THIS POINT MAY EXCEED THE FCC POSTED SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS. IN ACCORDA COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.1307(b)
WARNING	ORANGE/RED	<b>WARNING BEYOND THIS POINT"</b> RF FIELDS AT THIS SITE EXCEED FCC RULES FOR HUN SIGNS AND SITE GUIDELINES FOR WORKING IN RF ENVIRONMENTS COULD RESULT IN SE COMMUNICATIONS COMMISSION RULES ON RADIO FREQUENCY EMISSIONS 47 CFR-1.130

SIGN PLACEMENT:

 RF SIGNAGE PLACEMENT SHALL FOLLOW THE RECOMMENDATIONS OF AN EXISTING EME REPORT, CREATED BY A THIRD Wireless L.L.C.

- INFORMATION SIGN (GREEN) SHALL BE LOCATED ON EXISTING DISH Wireless L.L.C EQUIPMENT.

A) IF THE INFORMATION SIGN IS A STICKER, IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C EQUIPMENT B) IF THE INFORMATION SIGH IS A METAL SIGN IT SHALL BE PLACED ON EXISTING DISH Wireless L.L.C H-FRAME

- IF EME REPORT IS NOT AVAILABLE AT THE TIME OF CREATION OF CONSTRUCTION DOCUMENTS; PLEASE CONTACT DISH FURTHER INSTRUCTION ON HOW TO PROCEED.

<u>NOTES:</u>

1. FOR DISH Wireless L.L.C. LOGO, SEE DISH Wireless L.L.C. DESIGN SPECIFICATIONS (PROVIDED BY DISH Wireless L.L.C.)

2. SITE ID SHALL BE APPLIED TO SIGNS USING "LASER ENGRAVING" OR ANY OTHER WEATHER RESISTANT METHOD (DISH Wireless L.L.C. APPROVAL REQUIRED)

- 3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER DISH Wireless L.L.C. CONSTRUCTION MANAGER RECOMMENDATIONS.
- 5. ALL SIGNS WILL BE SECURED WITH EITHER STAINLESS STEEL ZIP TIES OR STAINLESS STEEL TECH SCREWS
- 6. ALL SIGNS TO BE 8.5"x11" AND MADE WITH 0.04" OF ALUMINUM MATERIAL

NOTICE	<b>A CAUTION</b>
	I ransmitting Antenna(s)
Radio frequency fields beyond this point MAY 중 EXCEED the FCC Occupational exposure limit. 없	Radio frequency fields beyond this point MAY EXCEED the FCC Occupational exposure limit.
Obey all posted signs and site guidelines for     No       working in radio frequency environments.     No	Obey all posted signs and site guidelines for working in radio frequency environments.
Call the DISH Wireless L.L.C. NOC at 1-866-624-6874Hereinprior to working beyond this point.Noc	Call the DISH Wireless L.L.C. NOC at 1-866-624-6874 prior to working beyond this point.
Site ID: 05	Site ID:
dish "	dish

ND POTENTIAL RF EXPOSURE.
SENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL NCE WITH FEDERAL COMMUNICATIONS
GENERAL PUBLIC EXPOSURE LIMIT. OBEY ALL NCE WITH FEDERAL COMMUNICATIONS
MAN EXPOSURE. FAILURE TO OBEY ALL POSTED RIOUS INJURY. IN ACCORDANCE WITH FEDERAL 7(b)
PARTY PREVIOUSLY AUTHORIZED BY DISH
CABINET. E WITH A SECURE ATTACH METHOD. I Wireless L.L.C. CONSTRUCTION MANAGER FOR

C.) H Wireless L.L.C. APPROVAL REQUIRED) I MANAGER RECOMMENDATIONS.

4. CABINET/SHELTER MOUNTING APPLICATION REQUIRES ANOTHER PLATE APPLIED TO THE FACE OF THE CABINET WITH WATER PROOF POLYURETHANE ADHESIVE

# INFORMAT

# This is an access point area with transmitting an

Obey all signs and barriers beyond t Call the DISH Wireless L.L.C. NOC at 1-8

Site ID:

THIS SIGN IS FOR REFERENCE PURPOSES ONLY

![](_page_64_Picture_21.jpeg)

Transmitting Antenna(s)

Radio frequency fields beyond this po EXCEED the FCC Occupational expos

Obey all posted signs and site guideli working in radio frequency environme

Call the DISH Wireless L.L.C. NOC at ' prior to working beyond this point.

Site ID:

![](_page_64_Picture_27.jpeg)

<u>RF SIGNAGE</u>

INTEL BIOLOGIE AND		
STOL SOUTH SANTA FE DAME STOL SOUTH SANTA FE DAME TWEE ENGREENING PROFESSIONALS 27603 OFFICE: 0419 861-6531 TOWER ENGREENING PROFESSIONALS 100 861-6531 TOWER ENGREENING 100 861-6531 TOWER ENGREENING 100 861-6531 TOWER ENGREENING 100 861-6531 TOWER ENGREENING 100 861-6531 100 861-6531 100 861 100 8	ΙΟΝ	diss wireless.
this point.     866-624-6874       USER ENNEERING PROFESSIONAL       USER ENNEERING       USER ENNEERING       USER ENNEERING	t to an ntennas.	5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
AND PRODUCT NUMBER STATE OF UNITAL UNITAL STATE OF UNITAL UNITAL STATE OF UNITAL UNITAL STATE OF UNITAL STATE OF UNITAL UNITAL STATE STATE OF UNITAL STATE OF UNITAL STATE STATE OF STATE OF ST	this point. 866-624-6874	TOWER ENGINEERING PROFESSIONALS 326 TRYON RD. RALEIGH, NC 27603 OFFICE: (919) 661–6351 FL COA# 31011
Dint Sure limit. ines for ents. 1-866-624-6874 UGS OFFICIAL STRUCTION STRUCTION 1-866-624-6874 UGS OFFICIAL STRUCTION 0 05/17/2021 PRELIMINARY 2 08/06/2021 PRELIMINARY 2 08/06/2021 PRELIMINARY 2 08/06/2021 PRELIMINARY 3 04/22/2022 CONSTRUCTION 4 09/22/2022 CONSTRUCTION 5 10/20/2022 CONSTRUCTION 4 09/22/2022 CONSTRUCTION 5 10/20/2022 CONSTRUCTION 5 10/20/2022 CONSTRUCTION 1-866-624-6874 MIMIA00378A 125 S OCEAN AVE PALM BEACH SHORES, FL 33404 SHEET TITLE RF SIGNAGE		His Document has been electronically signed & sealed by Joshua H. Carden, p.e. on 10-20-22 using a digital signature.         Printed copies of this Document are not considered signed & sealed by Joshua H. Carden, p.e. on 10-20-22 using a digital signature.         Printed copies of this Document are not considered signed & sealed and the signature must be verified on any electronic copies.         It is a violation of Law For any person, unless they are acting under the direction of a licensed professional engineer, to alter this document.         DRAWN BY:       CHECKED BY: APPROVED BY:
1-866-624-6874 MIMIA00378A 125 S OCEAN AVE PALM BEACH SHORES, FL 33404 SHEET TITLE RF SIGNAGE SHEET NUMBER	Sint sure limit.	RJB       CC       CC         RFDS REV #:       6         CONSTRUCTION DOCUMENTS         SUBMITTALS         REV       DATE       DESCRIPTION         0       05/17/2021       PRELIMINARY         1       06/03/2021       PRELIMINARY         2       08/06/2021       PRELIMINARY         3       04/22/2022       CONSTRUCTION         4       09/28/2022       CONSTRUCTION         5       10/20/2022       CONSTRUCTION         4       09/28/2022       CONSTRUCTION         4       09/28/2022       CONSTRUCTION         5       10/20/2022       CONSTRUCTION         5       DISH Wireless L.L.C.         DISH Wireless L.L.C.       DISH Wireless L.L.C.
	1-866-624-6874	PROJECT INFORMATION MIMIA00378A 125 S OCEAN AVE PALM BEACH SHORES, FL 33404 SHEET TITLE RF SIGNAGE SHEET NUMBER
GN-2		GN-2

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED - NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.

2. "LOOK UP" - DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH WIRELS L.L.C. AND DISH WIRELSS L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.

4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH Wireless L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322 (LATEST EDITION).

5. ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."

6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.

10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.

12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH Wireless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.

14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.

16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

 CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
 THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY

20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

# <u>GENERAL NOTES:</u>

1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR:GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER:DISH Wireless L.L.C.

TOWER OWNER: TOWER OWNER

2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.

4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.

12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER

13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

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ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS. 16. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION 18. OCCURS OR FLEXIBILITY IS NEEDED. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET 19. SCREW FITTINGS ARE NOT ACCEPTABLE. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE 20. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE NEC. 21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY) ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL 22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL). CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE 23. DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" 24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET • CONCRETE EXPOSED TO EARTH OR WEATHER: STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR  $\cdot$  #6 bars and larger 2" EXTERIOR LOCATIONS. 25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR • #5 BARS AND SMALLER 1-1/2" EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR · CONCRETE NOT EXPOSED TO EARTH OR WEATHER: BETTER) FOR EXTERIOR LOCATIONS. SLAB AND WALLS 3/4" 26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS. • BEAMS AND COLUMNS 1-1/2" THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, 27. TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE 28. WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.". 29. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED. 30. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS. TIE WRAPS ARE NOT ALLOWED. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL: AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE. psf. MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°F AT TIME OF PLACEMENT BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45. SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS: #4 BARS AND SMALLER 40 ksi #5 BARS AND LARGER 60 ksi DRAWINGS: IN ACCORDANCE WITH ACI 301 SECTION 4.2.4. ELECTRICAL INSTALLATION NOTES: FEDERAL, STATE, AND LOCAL CODES/ORDINANCES. AND TRIP HAZARDS ARE ELIMINATED. 3. 4.1. THE NATIONAL ELECTRICAL CODE 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED. 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION. 5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA. 6. CONFIGURATION. WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S). 9. WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. 10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. 11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED. 12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED. 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75°C (90°C IF AVAILABLE). 14. NEC.

ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR 15. EXPOSED INDOOR LOCATIONS.

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# **GROUNDING NOTES:**

ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.

CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS. 10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. 11.

ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS. 12. 13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND 15. CONNECTIONS.

ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND 17. RING, IN ACCORDANCE WITH THE NEC.

18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.

GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.

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ABBREVI	ATIO	NS
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ADJ	ADJUSTABLE	NIC	NOT IN CONTRACT
APPROX	APPROXIMATE	NTS	NOT TO SCALE
CAB	CABINET	OC	ON CENTER
CLG	CEILING	OPP	OPPOSITE
CONC	CONCRETE	SF	SQUARE FOOT
CONT	CONTINUOUS	SHT	SHEET
CJ	CONSTRUCTION JOINT	SIM	SIMILAR
DIA	DIAMETER	SS	STAINLESS STEEL
DWG	DRAWING	STL	STEEL
EGB	EQUIPMENT GROUND BAR	TOC	TOP OF CONCRETE
EA	EACH	TOM	TOP OF MASONRY
ELEC	ELECTRICAL	TYP	TYPICAL
EL	ELEVATION	VIF	VERIFY IN FIELD
EQ	EQUAL	UON	UNLESS OTHERWISE NOTED
EQUIP	EQUIPMENT	WWF	WELDED WIRE FABRIC
(E)	EXISTING	w/	WITH
EXT	EXTERIOR	DIC	DASE TRANSMISSION
FF	FINISHED FLOOR	BIS	STATION
GA	GAUGE		2500000
GALV	GALVANIZED	PCS	COMMUNICATIONS
SC	GENERAL CONTRACTOR		SERVICES
GRND	GROUND		
G	LONG	A-1	ANTENNA MARK NO.
NA	LOW NOISE AMPLIFIER		
XAN	MAXIMUM		CONTERINE
AECH	MECHANICAL	CL	CENTERLINE
AFR	MANUFACTURER	PL	PLATE
IGB	MASTER GROUND BAR	1.0	
AIN	MINIMUM	&	AND
ATL	METAL	0	AT
N)	NEW	GPS	GLOBAL POSITIONING

# SYMBOLS AND MATERIALS

Å	NEW ANTENNA	*******	GROUT OR PLASTER
Ş	EXISTING ANTENNAS		(E)BRICK
111	ASPHALT		(E)MASONRY
	CONCRETE		CONCRETE
e	ELECTRIC BOX		EARTH
**	LIGHT POLE		GRAVEL
34			PLYWOOD
0	FND. MONUMENT	Sec. 1997 Strategy of	SAND
•	SPOT ELEVATION		
	SET POINT	$\geq$	WOOD CONT.
3	REVISION		WOOD BLOCKING
~			STEEL
O-	GRID REFERENCE		CENTER LINE
10			PROPERTY LINE
DWC	DETAILS	vv	STEPPED FOOTING
1		<b>_</b>	MATCH LINE
DWG	SECTIONS	•	WORK POINT
		G	GROUND WIRE
A	TOUS NORTH		COAXIAL CABLE
N	INUE NURTH		RAIL ROAD

4

SCALE

FULL

![](_page_68_Figure_4.jpeg)

# DRIVING DIRECTIONS

95 SOUTH TO 708 EAST TO OCEAN AVENUE MAKE RIGHT AT INTERSECTION OF OCEAN AND 708 DOWN TO EDWARD LN. GO TO BLDG. 125

**I OMNIPOI** 

-

COMMUNICATIO MB OPERATIONS,

# MAYAN TOWERS CONDOMINI

125 OCEAN AVENUE PALM BEACH SHORES, FLORIDA 33404

6WP1009B

ROOF TOP

![](_page_68_Picture_13.jpeg)

NS INC. UM	OMNIPOINT COMMUNICATIONS MB OPERATIONS, INC. 600 ANSIN BLVD. HALLANDALE, FLORIDA (954) 457–5700 PROPERTY OWNER Name MAYAN TWRS CONDO Address 125 OCEAN AVENUE PALM BEACH SHORES, FL 33404 Phone (561) 844–4550 APPROVALS OMNIPOINT LANDLORD LEASING R.F. ZONING CONSTRUCTION BSIE PROJECT NO: 36585 DRAWN BY: CWC CHECKED BY: RWW PROFESSIONAL ENGINEER Name DAVID J. EARLES Discipline CIML/STRUCTURAL State FLORIDA
NS INC. UM	PROPERTY OWNER Name WATER PACE Address 125 OCEAN AVENUE PALM BEACH SHORES, FL 33404 Phone (561) 844-4550 APPROVALS OMNIPOINT LANDLORD LEASING R.F. ZONING CONSTRUCTION BSIE PROJECT NO: 36585 DRAWN BY: CWO CHECKED BY: RWW PROFESSIONAL ENGINEER Name DAVID J. EARLES Discipline CIVIL/STRUCTURAL State FLORIDA
NS INC. UM	Name       Mayan LWRS CONDO         Address 125 OCEAN AVENUE         PALM BEACH SHORES, FL 33404         Phone       (561) 844-4550         APPROVALS         OMNIPOINT
NS INC. UM	PALM BEACH SHORES, FL 33404 Phone_(561) 844-4550 APPROVALS OMNIPOINT LANDLORD LEASING R.FZONING CONSTRUCTIONBSIE PROJECT NO: 36585 DRAWN BY: CWC CHECKED BY: RWW PROFESSIONAL ENGINEER NameDAVID_J_EARLES DisciplineCIVIL/STRUCTURAL StateFLORIDA Registration No35767
NS INC. UM CRIPTION REV. NO. SHEET 4 PLAN 3 ITIONS 3 INA DETAILS 0 OPTS AND PENETRATIONS 1	Phone (551) 844-4550         APPROVALS         OMNIPOINT         LANDLORD         LEASING         R.F.         ZONING         CONSTRUCTION         BSIE         PROJECT NO:         J6585         DRAWN BY:         CWECKED BY:         RWW         PROFESSIONAL ENGINEER         Name       DAVID J. FARLES         Discipline       CIMIL/STRUCTURAL         State       FLORIDA         Registration No.       35767
NS INC. UM SHEET 4 PLAN 3 TIONS 3 INA DETAILS 0 DOTS AND PENETRATIONS 1	APPROVALS OMNIPOINT
LNC. UM CRIPTION REV. NO. SHEET 4 PLAN 3 ATIONS 3 NAA DETAILS 0	OMNIPOINT
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CRIPTION REV. NO. SHEET 4 PLAN 3 TIONS 3 INA DETAILS 0	LEASING
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VINA DETAILS 0 OPTS AND RENETRATIONS 1	Date11/11/97
	1 1
(ELECTRICAL DRAWINGS)	
JIT ROUTING 4	
RICAL DETAILS 1	4 11/11/97 GENERAL REVISIONS
120/240V SERVICE 1	3 11/03/97 GENERAL REVISIONS 2 09/18/97 GENERAL REVISIONS
NDING NOTES & LEGEND 1	1 08/14/97 CONSTRUCTION ISSUE
NDING RISER & DETAILS 2	0 07/17/97 BID/REVIEW ISSUE REV DATE DESCRIPTION
	BLACK & VEATCH
INDEX	(913) 458-2000
	SHEET TITLE
· · · · · · · · · · · · · · · · · · ·	TITLE SHEET 6WP1009B
- An Enles L	

![](_page_69_Figure_0.jpeg)

	OMNIPOINT
	MB OPERATIONS, INC.
APLY WITH ALL BUILDING CODES OF AUTHORITIES ND SHALL BE RESPONSIBLE FOR ALL SPECIAL SUTED FEES IN ACCORDANCE WITH LOCAL BUT NOT LIMITED TO, STRUCTURE ERECTION,	600 ANSIN BLVD. HALLANDALE, FLORIDA (954) 457–5700
GROUNDING INSPECTION, EXCAVATION INSPECTION RETE INSPECTION.	PROPERTY OWNER WALTER PAGE Name <u>MAYAN TWRS CONDO</u> Address 125 OCEAN AVENUE
AREA SHALL BE COORDINATED WITH BUILDING IANAGER WELL IN ADVANCE OF CONSTRUCTION	PALM BEACH SHORES, FL 33404 Phone (561) 844-4550
TOR SHALL BE COORDINATED WITH BUILDING MANAGER MES NEEDED. <u>ONLY</u> USE ACCESS TO CONSTRUCTION DWNER AND MANAGER.	APPROVALS
L BE PROTECTED AT ALL TIMES. CONTRACTOR SHALL EPAIRING ANY DAMAGE CAUSED BY CONSTRUCTION	
SUBCONTRACT ALL ROOFING CONSTRUCTION, REPAIR, MAINTENANCE OR ROOFING COMPANY HOLDING THE WARRANTY TO ROOF SHALL BE REPORTED TO ENGINEER AND IMEDIATE REPAIRS SHALL BE MADE PER MANUFACTURER'S	LANDLORD
AREAS OF NEW CONSTRUCTION.	70NING
ND ELECTRICAL SERVICE SHALL BE PROVIDED FOR NGS. COORDINATE INSTALLATION WITH BUILDING	CONSTRUCTION
LL NOT BE INTERRUPTED WITHOUT BUILDING OWNER GER'S APPROVAL.	BSIE
IFY EXACT LOCATION OF ALL EXISTING UTILITIES LATION OF NEW UTILITIES WITH LOCAL AUTHORITIES.	
D VERIFY ALL EXISTING CONDITIONS AND PLAN	PROJECT NO: 36585
INVE ALL TRASH AND DEBRIS FROM SITE ON DAILY	DRAWN BY: JEG
NG FIRE RATED WALLS SHALL BE MAINTAINED. FIRE SEAL U.L. APPROVED ASSEMBLY MATCHING RATING OF	CHECKED BY: RMV
HOWN SHALL NOT BE VARIED WITHOUT REVIEW APPROVAL ID CONCENTRATED LOADS DURING CONSTRUCTION.	PROFESSIONAL ENGINEER
CTURE SHALL NOT BE MODIFIED OR ATTACHED TO WITHOUT	NameDAVID_J_EARLES_
WALL PENETRATIONS SHALL BE WATERTIGHT AND ALL SHALL BE VERMIN PROOF. SEE DWG SDD-2.	Discipline <u>CIVIL/STRUCTURAL</u>
S, COAX AND JUMPERS TO MATCH BUILDING. USE	StateFLORIDA_
PROVIDE STAND-OFF SUPPORTS FOR JUMPERS AS	Registration No. <u>35767</u>
DG-2 FOR ELECTRICAL AND GROUNDING DETAILS.	Date11/11/97
TURAL DESIGN ARE PER ASCE 7-95, 150 MPH,	
FORM A FDR SWEEP TEST. SEE CONSTRUCTION MANAGER	
E EVERY EFFORT TO SET FORTH THE COMPLETE SCOPE OF R IS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN NOT EXCUSE CONTRACTOR FROM COMPLETING THE E WITH THE INTENT OF THE DRAWINGS.	
DRILLS TO SLABS SHALL BE LOCATED BY USE OF SCANNER AVOIDING EMBEDDED TENDONS. DRILLING GROUND FAULT CIRCUIT INTERRUPTER IN POWER SURE SAFETY OF ROOF STRESS TENDONS.	3         11/03/97         GENERAL REVISIONS           2         09/18/97         GENERAL REVISIONS           1         08/14/97         CONSTRUCTION ISSUE
m	0 07/17/97 BID/REVIEW ISSUE
	BLACK & VEATCH
	11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458–2000
1.	SHEET TITLE
Sales	ROOF PLAN 6WP1009B
-10.	SHEET NUMBER
()ana7 1/11/97	A-1

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![](_page_70_Figure_1.jpeg)

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EAST ELEVATION

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WEST ELEVATION

1=96 1/8 =1--0". SCALE: PLOT 08:

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	providence of the second secon
VOTES CONTRACTOR SHALL MOUNT BOTTOM OF A-1, A-2, A-5, AND A-6 2'-O" ABOVE TOP OF PENTHOUSE. 2. CONTRACTOR SHALL MOUNT TOP OF A-3 AND A-4 FLUSH WITH TOP OF MACHINE ROOM.	OMNIPOINT COMMUNICATIONS MB OPERATIONS, INC. 600 ANSIN BLVD. HALLANDALE, FLORIDA (954) 457–5700
FROM CENTERLINE OF ANTENNAS TO GROUNDLINE AND RECORD FOR ASBUILT.	PROPERTY OWNER WALTER PAGE Name <u>MAYAN TWRS CONDO</u> Address <u>125 OCEAN AVENUE</u> PALM BEACH SHORES, FL 33404 Phone (561) 844-4550
ANTENNA & ELE. 84'-6" SEE NOTES, 1, 2 & 3.	APPROVALS OMNIPOINT LANDLORD LEASING
	R.F ZONING CONSTRUCTION BSIE
	PROJECT NO: 36585
	CHECKED BY: RMV
	PROFESSIONAL ENGINEER NameDAVID_J_EARLES DisciplineCMUL/STRUCTURALStateFLORIDA Registration No35767Date11/11/97
	3         11/03/97         CENERAL REVISIONS           2         09/18/97         CENERAL REVISIONS           1         08/14/97         CONSTRUCTION ISSUE           0         07/17/97         BID/REVIEW ISSUE           REV         DATE         DESCRIPTION
Sulla	BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000 SHEET TITLE ELEVATIONS GWP1009B
David Juluar	SHEET NUMBER A-2

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ANT WBAND	MB OPERATIONS, INC. 600 ANSIN BLVD.
ERTIGHT SHEET METAL COLLAR OVERLAPPING	HALLANDALE, FLORIDA (954) 457-5700
TRATION POCKET TT METAL PITCH PAN, JERED /WELDED WATERTIGHT	PROPERTY OWNER
102mm] MIN. HEIGHT)	Name MALTER PAGE Name MAYAN TWRS CONDO
IN ROOF CEMENT OVER T-UP ROOFING PLIES,	Address 125 OCEAN AVENUE
E FLANGE BEFORE PPING	Phone (561) 844-4550
IPLE-PLY BUILT-UP MEMBRANE	
	APPROVALS
	OMNIPOINT
	LANDLORD
	LEASING
	R.F
	ZONING
xxxxxxxxxx	CONSTRUCTION
	BSIE
ONAL WOOD NAILERS; ES DEPENDING UPON	PROJECT NO: 36585
OF PENETRATION	DRAWN BY: JLG
	CHECKED BY: DJC
CAL DETAIL	PROFESSIONAL ENGINEER
	NomeDAVID_J_EARLES
- Charles and Charles	DisciplineCIVIL/STRUCTURAL
CABLE SUPPORT (OR EQUAL)	StateFLORIDA
4"X12"X18" (MIN) CONCRETE	Registration No35767
SLEEPER	Date11/11/97
1/2" RUBBER MAT	
2 CONDUIT	
A11	
AIL	
	1 10/29/97 GENERAL REVISIONS
	0 10/27/97 CONSTRUCTION ISSUE
	REV DATE DESCRIPTION
	B,
	DI ACK & VEATON
	BLACK & VEATCH
	11401 LAMAR
	(913) 458-2000
	SHEET TITLE
C 00 /	
A MARINA	BUILDING DETAILS SUPPORTS & PENETRATIONS
	SHEET NUMBER
1 1 101	
(1) NNO 7 11/11/97	



PLOT SCALE: 1" =:

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OUTLINE PLOT SCÄLE: 1"=1". FULL SCALE 11/11/97 14:11:05

OMNIPOINT COMMUNICATIONS MB OPERATIONS, INC. 600 ANSIN BLVD. HALLANDALE, FLORIDA (954) 457–5700
PROPERTY OWNER MALTER PAGE Name MAYAN THRS CONDO Address125 OCEAN AVENUE PALM BEACH SHORES, FL 33404 Phone (561) 844-4550
APPROVALS
LANDLORD
LEASING
R.F
ZONING
BSIE
PROJECT NO: 36585
DRAWN BY: JLG
CHECKED BY
PROFESSIONAL ENGINEER
Name <u>RICHARD NEAL CROWDIS</u>
Discipline ELECTRICAL
StateFLORIDA
Registration No0039114
Date11/11/97
0 1/03/97 CONSTRUCTION ISSUE
REV DATE DESCRIPTION
BLACK & VEATCH
11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000
SHEET TITLE
ELECTRICAL ROOM PLAN & ELEVATION GWP1009B
SHEET NUMBER
E-2



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<u>5:</u>	OMNIPOINT COMMUNICATIONS MB OPERATIONS, INC.
SHALL CONFORM TO THE NATIONAL ON ACCEPTED BY LOCAL JURISDICTION) CODES.	600 ANSIN BLVD. HALLANDALE, FLORIDA (954) 457-5700
PLY WITH ARTICLE 250 OF THE NATIONAL	PROPERTY OWNER
ENT AND ACCESSORIES SHALL BE U.L.	WALTER PAGE Name MAYAN TWRS CONDO
IL BE STRANDED COPPER, TYPE THHN, AND	Address 125 OCEAN AVENUE PALM BEACH SHORES, FL 33404
CONDUCTORS SHALL BE BARE, TIN COATED COPPER D CONDUCTORS SHALL BE GREEN INSULATED.	Phone (561) 844-4550
LL BE INSTALLED IN GALVANIZED RIGID STEEL IBLE LIQUIDTIGHT CONDUIT, AS INDICATED.	APPROVALS
TAIN ALL PERMITS, PAY PERMIT FEES, AND	OMNIPOINT
PLY FOR ELECTRICAL SERVICE AS SOON AS ATE REQUIREMENTS, SERVICE ROUTING, 9E WITH LOCAL POWER COMPANY.	
PLY FOR TELEPHONE SERVICE AS SOON AS ATE REQUIREMENTS AND SERVICE ROUTING ANY	R.F
D MATERIAL DESCRIBED ON THIS DRAWING,	ZONING
TAL TO COMPLETING AND PRESENTING THIS RATIONAL.	CONSTRUCTION
ABLE RUNS PREVAIL, CONTRACTOR SHALL E DROP AND SIZE WIRES AND CONDUIT ACCORDINGLY.	BSIE
S REQUIRED FOR ELECTRICAL SERVICE, TRANSFORMER GROUNDED PER N.E.C., ARTICLE 250-26.	70595
S EXPOSED TO WEATHER SHALL BE OF RAINPROOF	PROJECT NU: JOSSJ
SERVICE	DRAWN BY: JLG
OVIDE CONDUIT AND WIRING TO BTS AND VERIFY G. RACEWAY SYSTEM WATERIALS <u>LAND</u> DEVICES N ACCORDANCE WITH APPLICABLE STANDARDS OF VACEWAY SYSTEM COMPONENTS SHALL BE INSTALLED INPI ICABLE REQUIREMENTS OF THE N.E.C.	CHECKED BY: GPB
EXTEND A MINIMUM OF 10 FEET FROM CONDUIT TO	PROFESSIONAL ENGINEER
AL AROUND ALL CONDUIT PENETRATIONS THROUGH DOFS TO PREVENT MOISTURE PENETRATION OR VERMIN	Name <u>RICHARD NEAL GRUMUIS</u> Discipline <u>ELECTRICAL</u>
ALONG HORIZONTAL SURFACES (ROOF TOP OR SLAB) I RIGID CONDUIT SUPPORTED ON SLEEPERS.	StateFLORIDA
POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL 996 N.E.C. ARTICLE 300) USING KELLEMS GRIPS OR alf SUPPORT SYSTEM.	Date
ECTRICAL SERVICE DROP IS ADDED, CONTRACTOR SHALL RVICE DISCONNECT OR GROUPING THEREOF, DENOTING TRANCES, LOCATION OF EACH AND THE AREAS SERVED	
VER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION G SHALL APPLY:	
_ PERFORM LOAD TESTING TO DETERMINE MAXIMUM ER ARTICLE 220-35(1) 1996 N.E.C CONTRACTOR THER EXISTING FEEDER CAPACITY EXCEEDS VALUE RTICLE 220-35(2) 1996 N.E.C.	
CUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING ENT SUPPLYING IT.	1 11/10/97 GENERAL REVISIONS
-	
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE N EXISTING PANEL.	REV DATE DESCRIPTION
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE I EXISTING PANEL. UIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR ILVABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM SONDUCTORS USING AN INSTALLED 2-POLE FUSED WETER BASE PER ARTICLE 240-21(B) OF 1996 N.E.C. O) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SAME OR BETTER INTERRUPTING RATING AS EXISTING Y.	REV DATE DESCRIPTION BLACK & VEATCH
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE A EXISTING PANEL. UIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR ILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM SONDUCTORS USING AN INSTALLED 2-POLE FUSED METER BASE PER ARTICLE 240-21(B) OF 1936 N.E.C. 0) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SAME OR BETTER INTERRUPTING RATING AS EXISTING Y. W VOLTAGE CABLE OLTAGE CABLIE OLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA G HANGER BLOX OR ACCEPTABLE EQUAL	BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE A EXISTING PANEL. UIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR ILVABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM SONDUCTORS USING AN INSTALLED 2-POLE FUSED WETER BASE PER ARTICLE 240-21(B) OF 1996 N.E.C. O) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SAME OR BETTER INTERRUPTING RATING AS EXISTING Y. W VOLTAGE CABLE OLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA G HANGER BLOX OR ACCEPTABLE EQUAL OLTAGE CABLING BETWEEN BTS, LNA OR TMAAND ANTENNA 'OLLOWS:	BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458–2000 SHEET TITLE
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE A EXISTING PANEL. UIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR ILVABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM SONDUCTORS USING AN INSTALLED 2-POLE FUSED METER BASE PER ARTICLE 240-21(B) OF 1996 N.E.C. 0) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SAME OR BETTER INTERRUPTING RATING AS EXISTING Y. W VOLTAGE CABLE OLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA G HANGER BLOX OR ACCEPTABLE EQUAL OLTAGE CABLING BETWEEN BTS, LNA OR TMAAND ANTENNA OLTAGE CABLING BETWEEN BTS, LNA OR TMAAND ANTENNA OLTAGE CABLING SURFACES: USE WAVEGUIDE SUPPORTS CRETE SLEEPERS AS SHOWN IN STANDARD DRAWING DSD-2.	BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000 SHEET TITLE
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE A EXISTING PANEL. UIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR ILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM CONDUCTORS USING AN INSTALLED 2-POLE FUSED WETER BASE PER ARTICLE 240-21(B) OF 1936 N.E.C. 0) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SAME OR BETTER INTERRUPTING RATING AS EXISTING Y. W VOLTAGE CABLE OLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA G HANGER BLOX OR ACCEPTABLE EQUAL OLTAGE CABLING BETWEEN BTS, LNA OR TMAAND ANTENNA OLLOWS: ORIZONTAL ROOFING SURFACES: USE WAVEGUIDE SUPPORTS CRETE SLEEPERS AS SHOWN IN STANDARD DRAWING DSD-2. ERTICAL EXTERIOR WALLS WHERE PAINT TO MATCH IS SPECIFIED MECHANICAL PROTECTION IS REQUIRED: USE 12 X 3 ISCT WALL SUPPORT KIT.	BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000 SHEET TITLE NEW 120/240V SERVICE BTS IN BUILDING
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE A EXISTING PANEL. UIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR ILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM SONDUCTORS USING AN INSTALLED 2-POLE FUSED METER BASE PER ARTICLE 240-21(B) OF 1996 N.E.C. O) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SAME OR BETTER INTERRUPTING RATING AS EXISTING Y. W VOLTAGE CABLE OLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA G HANGER BLOX OR ACCEPTABLE EQUAL OLTAGE CABLING BETWEEN BTS, LNA OR TMAAND ANTENNA OLTAGE CABLING SURFACES: USE WAVEGUIDE SUPPORTS CRETE SLEEPERS AS SHOWN IN STANDARD DRAWING DSD-2. ERTICAL EXTERIOR WALLS WHERE PAINT TO MATCH IS SPECIFIED MECHANICAL PROTECTION IS REQUIRED: USE 12 X 3 CT WALL SUPPORT KIT. MECHANICAL PROTECTION IS REQUIRED: USE 12 X 3 OPEN OR AL LADDER TRAY.	BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000 SHEET TITLE NEW 120/240V SERVICE BTS IN BUILDING SHEET NUMBER
OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE A EXISTING PANEL. UIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR ILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM DONDUCTORS USING AN INSTALLED 2-POLE FUSED METER BASE PER ARTICLE 240-21(B) OF 1936 N.E.C. 0) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SAME OR BETTER INTERRUPTING RATING AS EXISTING Y. W VOLTAGE CABLE OLTAGE CABLING BETWEEN BTS, LNA OR TMA AND ANTENNA G HANGER BLOX OR ACCEPTABLE EQUAL DITAGE CABLING BETWEEN BTS, LNA OR TMAAND ANTENNA OLLOWS: DRIZONTAL ROOFING SURFACES: USE WAVEGUIDE SUPPORTS CRETE SLEEPERS AS SHOWN IN STANDARD DRAWING DSD-2. ERTICAL EXTERIOR WALLS WHERE PAINT TO MATCH IS SPECIFIED MECHANICAL PROTECTION IS REQUIRED: USE 12 X 3 CT WALL SUPPORT KT. R ADJACENT TO BTS PLATFORM: USE 12 X 3 OPEN OR AL LADDER TRAY.	BLACK & VEATCH BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000 SHEET TITLE NEW 120/240V SERVICE BTS IN BUILDING SHEET NUMBER FSD-14

### GROUNDING NOTES:

### A - GENERAL

INSTALLATION OF GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND WITH ALL BUILDING CODES OF AUTHORITIES A1. HAVING JURISDICTION.

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- GROUNDING CONDUCTORS SHALL BE #2 AWG TINNED SOLID BARE COPPER BELOW AND ABOVE GRADE, UNLESS OTHERWISE NOTED AND SHALL BE ROUTED IN A DOWNWARD PATH TOWARDS GROUND BARS. A2.
- GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AND DIRECT AS POSSIBLE WITH A3. MINIMUM BEND RADIUS OF 12 INCHES.
- ALL BELOW GRADE CONNECTIONS SHALL BE CADWELD TYPE CONNECTIONS AND ALL CONNECTIONS TO EQUIPMENT AND GROUND BARS SHALL BE 2-HOLE BRONZE COMPRESSION CONNECTORS UNLESS OTHERWISE NOTED. A4.
- CONTRACTOR SHALL INSPECT AND TEST ANY EXISTING OR NEW GROUNDING SYSTEM WITH A BIDDLE-MEGGER TESTER AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. ITST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT A5. UMENTATION.
- CONTRACTOR SHALL INSTALL NEW PCS GROUNDING SYSTEM PER SPECIFICATIONS AND INTERCONNECT NEW SYSTEMS TO ANY EXISTING GROUNDING SYSTEMS AS REQUIRED BY NFPA 70 AND 78 (THIS APPLIES TO ELECTRICAL POWER DISTRIBUTION GROUNDING SYSTEM, LIGHTNING PROTECTION GROUNDING SYSTEM, COAX CABLE GROUNDING SYSTEM AND ANY OTHER EXISTING GROUNDING SYSTEMS). A6.
- GROUNDING CONDUCTORS SHALL BE BONDED TO CABLE SUPPORTS, ANTENNA FRAMES, AND ANY SUPPORT FRAMES OR RACKS USING CADWELD CONNECTIONS. A7.
- CONTRACTOR SHALL PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS, STAINLESS STEEL HARDWARE SHALL BE USED THROUGHOUT. A8.
- GROUNDING CONDUCTORS EMBEDDED IN CONCRETE OR PENETRATING WALLS AND FLOORS SHALL BE ENCASED IN PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS UNLESS REQUIRED BY LOCAL CODES OR OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION AND VERMIN INFESTATION.
- A10. CONTRACTOR SHALL BOND PCS GROUNDING SYSTEM VIA THE MASTER GROUND BAR TO ALL METAL OBJECTS WITHIN 12 FEET OF EQUIPMENT, CONDUIT AND CABLES.
- BONDING OF GROUNDED CONDUCTOR (NEUTRAL) AND GROUNDING CONDUCTOR SHALL BE AT SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-26.
- A12. CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING FOR GROUNDING CONDUCTORS WHERE APPLICABLE
- A13. A GROUND LEAD IS REQUIRED ONLY FOR BTS SUPPORTED ON STEEL FRAME. AN ADDITIONAL GROUND LEAD IS REQUIRED IF CABLE TRAY IS USED.
- CONNECTIONS TO CGB SHALL BE ARRANGED IN THE FOLLOWING THREE GROUPS: SURGE PRODUCERS (COAXIAL CABLE GROUND KITS, TELCO CABINET AND POWER PEDESTAL GROUND). SURGE ABSORBERS (GROUNDING ELECTRODE RING OR BUILDING STEEL). NON-SURGING OBJECTS (EGB GROUND IN BTS).
- A15. DOUBLING OR STACKING OF ANY CONNECTIONS IS NOT ACCEPTABLE.
- A16 ALL GROUND BARS SHALL BE INSTALLED WITH STAND OFF INSULATORS.

### B - PREPARATION

- SURFACES: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED TO ENSURE PROPER CONTACT. ALL GALVANIZED SURFACES ON WHICH GALVANIZING HAS BEEN REMOVED BY CUTTING, DRILLING, OR ANY OTHER OPERATION SHALL BE RE-GALVANIZED IN ACCORDANCE WITH ASTM A780 USING "ZINC RICH" COATING AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS COMPANY (LOCATED IN QUINCY, MASSACHUSETTS), OR ACCEPTABLE EQUAL. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED PRIOR B1. TO INSTALLATION
- GROUND BAR: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED. NO FINGER PRINTS OR DISCOLORED COPPER SHALL BE PERMITTED. B2.

### C - COAX CABLE

- COAX CABLE OUTER CONDUCTORS (SHIELOS) SHALL BE GROUNDED USING COAX GROUNDING KITS AT A MINIMUM OF TWO POINTS, INCLUDING AT ANTENNA AND AT MASTER GROUND BAR. THE COAXIAL CABLE SHALL NOT EXCEED 100 FEET BETWEEN GROUNDING KITS.
- GROUNDING CONDUCTOR CONSISTING OF #2 AWG TINNED SOLID BARE COPPER WIRE SHALL BE BONDED TO WAVEGUIDE ENTRY GROUND BAR USING CADWELD CONNECTIONS. C2.
- COAX CABLES ENTERING A BUILDING SHALL BE GROUNDED WITH COAX GROUNDING KITS TO AN INSULATED COAX GROUND BAR WHICH SHALL BE INSTALLED ON THE OUTSIDE FACE OF THE BUILDING, BELOW THE CABLE ENTRY PORTS. C3.
- WHEN COAX CABLES ENTER A BUILDING FROM A TOWER, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE EXTERNAL GROUND RING USING #2 AWG BARE TINNED SOLID COPPER ISOLATED IN PYC CONDUIT. C4.
- WHEN COAX CABLES ENTER A BUILDING FROM A ROOF TOP, THE CDAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE MASTER GROUND BAR NEAR THE BTS USING #2 AWG STRANDED TINNED COPPER CONDUCTOR (SEE BUILDINGS NOTES ON THIS DRAWING FOR C5. CONNECTION TO PRINCIPLE GROUND BAR AND BUILDING GROUND).

### D - BUILDINGS

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- ELECTRICAL CONTRACTOR SHALL PERFORM REQUIRED TESTING ON GROUNDING SYSTEM ONCE GROUNDING SYSTEM IS COMPLETELY CONSTRUCTED AND BEFORE SERVICE POWER AND GROUND IS CONNECTED (SEE NOTE A5 FOR TEST DESCRIPTION). D1.
- A #4/0 AWG COPPER CONDUCTOR SHALL BE ROUTED FROM MASTER GROUND BAR AT BTS SITE TO MAIN METAL COLD WATER PIPE AND BONDED TO PIPE WITH BRONZE 2-HOLE PIPE CLAMP, CLAMP SHALL BE CONNECTED TO WATER PIPE WITHIN 5 FEET OF ENTRY OF PIPE INTO BUILDING WITH NO DEVICES BETWEEN ENTRY POINT AND CONNECTION AND SHALL COME IN CONTACT WITH PIPE FOR A MINIMUM DISTANCE OF 4 INCHES. D2.
- METAL RACEWAYS, ENCLOSURES, FRAMES AND OTHER NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT SHALL BE KEPT AT LEAST 6 FEET AWAY FROM LIGHTNING ROD CONDUCTORS OR THEY MUST BE BONDED TO LIGHTING ROD CONDUCTORS AT THE LOCATION WHERE SEPARATION DISTANCE IS LESS THAN 6 FEET. D3.
- A MASTER GROUND BAR (MGB) SHALL BE INSTALLED NEAR BTS WITH BUILDING PRINCIPAL GROUND BAR (BPG) INSTALLED NEAR ENTRANCE OF MAIN METAL COLD WATER PIPE INTO BUILDING. A #4/0 AWG STRANDED COPPER DOWN CDNDUCTOR (VERTICAL GROUND RISER) SHALL BE USED TO INTERCONNECT GROUND BARS. D4.
- VERTICAL RISER SHALL CONSIST OF A #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR D5. INSIDE 3/4" PVC CONDUIT.
- CONTRACTOR SHALL BOND BUILDING PRINCIPAL GROUND BAR (BPG) NEAR MAIN METAL COLD WATER PIPE TO EXISTING BUILDING GROUND RING AS WELL AS TO MAIN METAL COLD WATER PIPE WITH #4/0 AWG (THWN) STRANDED COPPER CONDUCTOR. D6.
- TRANSMISSION BONDING BARS (TBB) SHALL BE INSTALLED NEAR ANTENNAS AND SHALL BE BONDED TO MASTER GROUND BAR (MGB) WITH #2 AWG TINNED SOLID BARE D7. COPPER CONDUCTOR.
- IF CODES REQUIRE VERTICAL RISER TO BE ISOLATED IN CONDUIT, PVC CONDUIT IS PREFERRED. IF METALLIC CONDUIT SHOULD BE REQUIRED, GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF THE CONDUIT AND BONOED TO GROUND BARS USING #2 AWG (THWN) STRANDED COPPER CONDUCTORS WITH GREEN INSULATION. 08.
- IF REQUIRED ON THE SITE DRAWING, INSTALL AN INSPECTION WELL AS SHOWN ON GSD-3 D9. OR GSD-3A.
- E LAND BUILDS AND CO-LOCATES
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS UNIFORMLY SPACED AROUND THE EQUIPMENT FOUNDATION AND AROUND THE PERIMETER OF THE TOWER FOUNDATION. THE GROUND RODS SHALL BE  $5/8' \times 10'-0'$  COPPER CLAD STEEL INTERCONNECTED WITH  $\frac{1}{2}$  SOLID TINNED BARE COPPER GROUND CONDUCTOR TO FORM A GROUND RING AT A DEPTH OF 30 INCHES BELOW THE SURFACE OF THE SOLL. A MINIMUM OF 1 FOOT AND A MAXIMUM OF 3 FEET CLEARANCES SHALL BE MAINTAINED FROM FOUNDATIONS. TOWER AND EQUIPMENT GROUND RINGS SHALL BE INTERCONNECTED WITH TWO GROUNDING CONDUCTORS OF EQUAL LENGTH AND MATERIALS. E1.
- GROUND RODS SHALL BE BONDED TO GROUND RINGS AND INTERCONNECTING CONDUCTORS AT EQUAL INTERVALS OF APPROXIMATELY 10 FEET. E2.
- WAVEGUIDE BRIDGE SHALL BE BONDED TO GROUND RINGS OR INTERCONNECTING CONDUCTORS ε3. I GROUNDING CONDUCTORS BONDED TO DIAGONALLY OPPOSED SUPPORT POSTS.
- E4. GROUND BARS SHALL BE BONDED TO GROUND RING WITH SINGLE GROUNDING CONDUCTOR
- BONDS TO ANTENNA MASTS, FENCE POSTS, WAVEGUIDE BRIDGE, TOWER STEEL (UNLESS PROHIBITED BY TOWER MANUFACTURER) AND THOSE BELOW GRADE SHALL BE EXOTHERMIC TYPE (CADWELD). ALL OTHER BONDS SHALL BE BRONZE 2-HOLE COMPRESSION FITTINGS UNLESS OTHERWISE NOTED. E5.
- GROUNDING CONDUCTORS MAKING A TRANSITION FROM ABOVE TO BELOW GRADE SHALL BE E6. INSULATED FROM EARTH CONTACT BY PASSING THROUGH PVC CONDUIT. THE CONDUIT SHALL EXTEND AT LEAST 6 INCHES ABOVE AND 12 INCHES BELOW GRADE LEVEL.

### F - LIGHTNING PROTECTION

- IF EXISTING BUILDING HAS AN NFPA 780 AIR TERMINAL SYSTEM, EXISTING SYSTEM SHALL BE BONDED TO A GROUND BAR TO BOND THE EXISTING SYSTEM TO THE NEW SYSTEM. SHOULD THE EXSITING SYSTEM COME WITHIN & FEET OF ANTENNA STRUCTURES, EXISTING SYSTEM SHALL ALSO BE BONDED TO COAX GROUND BARS. E1.
- IF SITE IS IN A HIGH RISK AREA AND ANTENNAS DO NOT FALL WITHIN EXISTING CONE OF PROTECTION FOR BUILDING, AIR TERMINALS SHALL BE INSTALLED AT ANTENNAS. A SINGLE AIR TERMINAL MAY BE USED WHEN TWO ANTENNAS ARE MOUNTED ON SAME STRUCTURE AND IT HAS BEEN DETERMINED THAT BOTH ANTENNAS WILL FALL WITHIN LIGHTNING CONE OF PROTECTION OR SINGLE AIR TERMINAL.





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· · · ·	OMNIPOINT COMMUNICATIONS MB OPERATIONS, INC. 600 ANSIN BLVD. HALLANDALE, FLORIDA (954) 457-5700
BBREVIATIONS	
BTS BASE TRANSCEIVER SUBSYSTEM	PROPERTY OWNER
LNA LOW NOISE AMPLIFIER	Name MAYAN TWRS CONDO
THA TOWER MOUNTED AMPLIFIER	Address 125 OCEAN AVENUE
CGB COAX GROUND BAR	PALM BEACH SHORES, FL 33404
MGB MASTER GROUND BAR	Phone (561) 844-4550
CGB COAX GROUND BAR	
BPG BUILDING PRINCIPAL GROUND	APPROVALS
(E) EXISTING (N) NEW	
C CONDUIT	
G GROUND	LANDLORD
W WIRE	LEASING
	R.F
	ZONING
	CONSTRUCTION
	BSIE
	PROJECT NO: 36585
	DRAWN BY: JLG
	CHECKED BY: DB
	PROFESSIONAL ENGINEER
	Name <u>Richard NEAL CROWDIS</u>
	Diastalian ricordiou
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	State

GROUN	NDING	LEG	END:	
0000	COPPER	GROUND	BAR	

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COMPRESSION FITTING

GROUND CONNECTION

INSPECTION WELL

GROUND ROD

----- POWER WIRING

TELCO WIRING

----- G ----- GROUND WIRING

ABBREVIATIONS

EXOTHERMIC WELD CONNECTION

COAXIAL CABLE SHIELD GROUND KIT CONNECTION



PLOT SCALE: 1"=1", FULL

NOTE: 1. SEE DWG GSD-1 FOR GROUNDING NOTES, LEGEND AND ABBREVIATIONS. 2. TRANSFORMER SECONDARY SHALL BE GROUNDED PER NEC 250-26.	OMNIPOINT COMMUNICATIONS MB OPERATIONS, INC. 600 ANSIN BLVD. HALLANDALE, FLORIDA (954) 457-5700 PROPERTY OWNER WAITER PAGE Name MAYAN TWRS CONDO
	Address 125 OCEAN AVENUE PALM BEACH SHORES, FL 33404 Phone (561) 844-4550 APPROVALS
	OMNIPOINT LANDLORD LEASING R.F ZONING
	CONSTRUCTION BSIE PROJECT NO: 36585
E SPECIFIC DRAWINGS FOR REQUIRED ENT AND LOCATIONS (IF LOCATED REMOTELY ITS AND EQUIPMENT, SWITCHES SHALL BE TO BUILDING GROUND)	DRAWN BY: JLG CHECKED BY: GPB
	PROFESSIONAL ENGINEER NameRICHARD_NEAL_CROWDIS DisciplineELECTRICAL StateFLORIDA Registration_No0039114 Date11/11/97
	2 11/10/97 GENERAL REVISIONS 1 10/29/97 GENERAL REVISIONS 0 10/27/97 CONSTRUCTION ISSUE
	BLACK & VEATCH 11401 LAMAR OVERLAND PARK, KS. 66211 (913) 458-2000
	SHEET TITLE GROUNDING RISER & DETAILS BTS ON ROOF
	GSD-2



## DESCRIPTION: PARENT TRACT (AS PROVIDED BY CLIENT)

LEGEND:

(C) = CALCULATED (F) = FIELD (P) = PLAT

INV = INVERT

RCP = REINFORCED CONCRETE PIPE

ENGINEERING GROUP, INC

12979 N TELECOM PARKWAY TAMPA, FLORIDA 33637

(813) 615-1422 FLORIDA LICENSED BUSINESS 7906

LOTS 618, 619, 620 AND 621, TOGETHER WITH ALL LANDS FORMED BY ACCRETION, LYING TO THE EAST OF THE ABOVE DESCRIBED LOTS, ALL IN THE PLAT OF PALM BEACH SHORES, ACCORDING TO THE PLAT THEREOF ON FILE IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT IN AND FOR PALM BEACH COUNTY, FLORIDA, IN PLAT BOOK 3, PAGES 29-32 INCLUSIVE.

DESCRIPTION: PROPOSED 10' WIDE NON-EXCLUSIVE UTILITY EASEMENT (AS REQUESTED BY CLIENT) A STRIP OF LAND LYING WITHIN SECTION 26, TOWNSHIP 42 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF A PARCEL AS DESCRIBED WITHIN OFFICIAL RECORDS BOOK 1714, PAGE 411, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF OCEAN AVENUE; THENCE NO7\*20'20'W, ALONG THE EASTERLY RIGHT-OF-WAY LINE OF SAID OCEAN AVENUE, A DISTANCE OF 112.25 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NO7\*20'20"W, ALONG THE EASTERLY RIGHT-OF-WAY LINE OF SAID OCEAN AVENUE, A DISTANCE OF 10.07 FEET; THENCE N89'34'47"E, DEPARTING THE EASTERLY RIGHT-OF-WAY LINE OF SAID OCEAN AVENUE, A DISTANCE OF 221.74 FEET; THENCE SO°25'3'E, A DISTANCE OF 10.00 FEET TO THE NORTH FACE OF AN EXISTING BUILDING, THENCE S89'34'47'W, ALONG THE NORTH FACE OF SAID EXISTING BUILDING AND ITS EXTENDED PROJECTION, A DISTANCE OF 220.52 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF SAID OCEAN AVENUE, ALSO THE POINT OF BEGINNING.

SAID PROPOSED 10' WIDE NON-EXCLUSIVE UTILITY FASEMENT CONTAINING 2 211 SQUARE FEET MORE OR LESS

CONC = CONCRETE

REVISIONS ADDED PROPOSED 10' NON-EXCLUSIVE UTILITY

UPDATED PROPOSED 10' NON-EXCLUSIVE UTILITY EASEMENT PER CLIENTS REQUEST. NO FIELD WORK WAS PERFORMED AS PART OF THIS REVISION.

EASEMENT PER CLIENTS REQUEST. NO FIELD WORK JLF 8/23/22 WAS PERFORMED AS PART OF THIS REVISION.

PREPARED FOR:

wireless

5701 SOUTH SANTA FE DRIVE

LITTLETON, CO 80120

JLF 10/17/22

**PRELIMINARY FOR CLIENTS REVIEW** 

NOT VALID WITHOUT THE

SIGNATURE AND ORIGINAL

RAISED SEAL OF A FLORIDA

LICENSED SURVEYOR & MAPPER.

SURVEYOR'S NOTES: 1. BEARINGS ARE BASED ON THE EASTERLY RIGHT-OF-WAY LINE OF OCEAN AVENUE BEING N07'20'20"W, PER SURVEY PERFORMED BY WILLIAM G. WALLACE, DATED AUGUST 30, 1968, JOB NUMBER 68-475. 2. THIS SURVEY WAS PERFORMED ON THE GROUND ON MARCH 17, 2022 UNDER THE SUPERVISION OF A FLORIDA PROFESSIONAL SURVEYOR & MAPPER. 3. THE SUBJECT PROPERTY APPEARS TO BE WITHIN ZONE "X", COMMUNITY 125137, PANEL NUMBER 0393, SUFFIX F WITH AN EFFECTIVE DATE OF 10/05/2017. 4. ALL DIMENSIONS SHOWN ARE IN FEET AND DECIMAL PARTS THEREOF. 5. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP. 6. NO UTILITIES (UNDERGROUND OR ABOVE-GROUND) WERE LOCATED EXCEPT AS SHOWN HEREON. 7. NO SEARCH FOR VISIBLE EVIDENCE OF EXISTING OR FORMER AREAS OF FACILITIES WHICH MAY HAVE INVOLVED THE USE OF STORAGE OF HAZARDOUS MATERIALS WAS MADE. 8. NO WETLAND AREAS OR JURISDICTIONAL WETLANDS WERE LOCATED OR ARE SHOWN ON THIS SURVEY. 9. THIS SURVEYOR HAS REVIEWED THE COMMITMENT FOR TITLE INSURANCE PREPARED BY U.S. TITLE SOLUTIONS, COMMITMENT NUMBER UST68523, DATED JUNE 3, 2021 AND HAVE FOUND THE FOLLOWING: 1-3) STANDARD EXCEPTIONS, CONTAINS NO SURVEY MATTERS. 4. EASEMENT, OFFICIAL RECORDS BOOK 84111, PAGE 145. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT). 5.1 MEMORANDUM OF AGREEMENT, OFFICIAL RECORDS BOOK 11563, PAGE 996. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT) 5.2 LEASE AGREEMENT, OFFICIAL RECORDS BOOK 24166, PAGE 861. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT) 5.3 MEMORANDUM OF AGREEMENT, OFFICIAL RECORDS BOOK 9576, PAGE 1192. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT 5.4 MEMORANDUM OF AGREEMENT, OFFICIAL RECORDS BOOK 9023, PAGE 258. (UNKNOWN IMPACT/ENCUMBRANCES

ON PROPOSED DEVELOPMENT). 5.5 PLAT, PLAT BOOK 3, PAGE 29. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT).

10. INFORMATION SHOWN HEREON MAY BE SUBJECT TO EASEMENTS, RESTRICTIONS AND RESERVATIONS OF RECORD. 11. THIS SURVEY REFLECTS THE DESCRIPTION PROVIDED BY THE CLIENT.

12. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLESS SIGNED AND SEALED WITH AN ORIGINAL RAISED

SURVEYOR'S SEAL

13. ADDITIONS OR DELETIONS TO THIS SURVEY MAP BY ANY OTHER THAN THE SIGNING SURVEYOR ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR OF RECORD.

14. THIS SURVEY WAS CREATED FOR THE PURPOSE OF CREATING A PROPOSED UTILITY EASEMENT AND SHOWING THE TOPOGRAPHIC LOCATION OF IMPROVEMENTS ON THE ROOFTOP OF A 7-STORY BUILDING. IT DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PARENT TRACT.

15. THIS SURVEY MAP IS INTENDED TO BE DISPLAYED AT A SCALE AS NOTED.

THE ELEVATIONS SHOWN HEREON ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988, ARE TO THE THIRD ORDER OF ACCURACY, AND IS BASED ON MULTI FREQUENCY GNSS CORRECTIONS OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS FLORIDA PERMANENT REFERENCE NETWORK (FPRN).

# THIS SURVEY IS NOT VALID OR COMPLETE WITHOUT SHEETS 1, 2 & 3 BEING BOUND TOGETHER. SEE SHEET TWO FOR SKETCH OF PROPOSED UTILITY EASEMENT, AND TOPOGRAPHIC LOCATION OF **IMPROVEMENTS ON ROOFTOP OF BUILDING.** SEE SHEET THREE FOR SKETCH OF THE PARENT TRACT.

# TOPOGRAPHIC LOCATION OF IMPROVEMENTS ON ROOFTOP OF BUILDING

DRAWING INFORMATION:	SITE INFORMATION:		
FIELD DATE:	MIMIAO	0378A	
03-17-2022	125 0054		
DRAWN DATE:	PALM BEACH SHOR	ES FLORIDA 33404	
03-24-2022	(PALM BEAC	CH COUNTY)	
CHECK DATE:			
03-24-2022	SMW PROJECT NUMBER:	SURVEY	
SECTWPRGE.:	22-5191	SHEET 1 OF 3	
20-423-43E			/





22-5191 26-42S-43E

SHEET 2 OF 3





# DESCRIPTION: PARENT TRACT (AS PROVIDED BY CLIENT)

LOTS 618, 619, 620 AND 621, TOGETHER WITH ALL LANDS FORMED BY ACCRETION, LYING TO THE EAST OF THE ABOVE DESCRIBED LOTS, ALL IN THE PLAT OF PALM BEACH SHORES, ACCORDING TO THE PLAT THEREOF ON FILE IN THE OFFICE OF THE CLERK OF THE CIRCUIT COURT IN AND FOR PALM BEACH COUNTY, FLORIDA, IN PLAT BOOK 3, PAGES 29-32 INCLUSIVE.

DEVELOPMENT)

WITH AN EFFECTIVE DATE OF 10/05/2017. 4. EASEMENT, OFFICIAL RECORDS BOOK 84111, PAGE 145. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED 5.1 MEMORANDUM OF AGREEMENT, OFFICIAL RECORDS BOOK 11563, PAGE 996. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT). 5.2 LEASE AGREEMENT, OFFICIAL RECORDS BOOK 24166, PAGE 861. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT). 5.3 MEMORANDUM OF AGREEMENT, OFFICIAL RECORDS BOOK 9576, PAGE 1192. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT).
 5.4 MEMORANDUM OF AGREEMENT, OFFICIAL RECORDS BOOK 9023, PAGE 258. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT). 5.5 PLAT, PLAT BOOK 3, PAGE 29. (UNKNOWN IMPACT/ENCUMBRANCES ON PROPOSED DEVELOPMENT).

SURVEYOR'S NOTES: 1. BEARINGS ARE BASED ON THE EASTERLY RIGHT-OF-WAY LINE OF OCEAN AVENUE BEING NO7"20'20"W, PER SURVEY PERFORMED BY MILLIAM G. WALLACE, DATED AUGUST 30, 1968, JOB NUMBER 68-475. 2. THIS SURVEY WAS PERFORMED ON THE GROUND ON MARCH 17, 2022 UNDER THE SUPERVISION OF A FLORIDA PROFESSIONAL SURVEYOR & MAPPER. 3. THE SUBJECT PROPERTY APPEARS TO BE WITHIN ZONE "X", COMMUNITY 125137, PANEL NUMBER 0393, SUFFIX F 4. ALL DIMENSIONS SHOWN ARE IN FEET AND DECIMAL PARTS THEREOF. 5. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP. 6. NO UTILITIES (UNDERGROUND OR ABOVE-GROUND) WERE LOCATED EXCEPT AS SHOWN HEREON. 7. NO SEARCH FOR VISIBLE EVIDENCE OF EXISTING OR FORMER AREAS OF FACILITIES WHICH MAY HAVE INVOLVED THE USE OF STORAGE OF HAZARDOUS MATERIALS WAS MADE. 8. NO WETLAND AREAS OR JURISDICTIONAL WETLANDS WERE LOCATED OR ARE SHOWN ON THIS SURVEY. 9. THIS SURVEYOR HAS REVIEWED THE COMMITMENT FOR TITLE INSURANCE PREPARED BY U.S. TITLE SOLUTIONS, COMMITMENT NUMBER UST68523, DATED JUNE 3, 2021 AND HAVE FOUND THE FOLLOWING: 1-3) STANDARD EXCEPTIONS, CONTAINS NO SURVEY MATTERS. 10. INFORMATION SHOWN HEREON MAY BE SUBJECT TO EASEMENTS, RESTRICTIONS AND RESERVATIONS OF RECORD. 11. THIS SURVEY REFLECTS THE DESCRIPTION PROVIDED BY THE CLIENT. 12. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLESS SIGNED AND SEALED WITH AN ORIGINAL RAISED SURVEYOR'S SEAL.

13. ADDITIONS OR DELETIONS TO THIS SURVEY MAP BY ANY OTHER THAN THE SIGNING SURVEYOR ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR OF RECORD.

14. THIS SURVEY WAS CREATED FOR THE PURPOSE OF SHOWING THE TOPOGRAPHIC LOCATION OF IMPROVEMENTS ON THE ROOFTOP OF A 7-STORY BUILDING. IT DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PARENT TRACT. 15. THIS SURVEY MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1 INCH = 10 FEET FOR 24"X36" DRAWINGS AND 1 INCH = 20 FEET FOR 11"X17" DRAWINGS OR SMALLER.

# LEGEND:

LEGENUS: (C) = CALCULATED (F) = FIELD (P) = PLAT (P) = DEED FIR = FOUND IRON PIPE FID.D.T. = FLORIDA DEPARTMENT OF TRANSPORTATION NO. = NUMBER LB = UCENSED BUSINESS RCP = REINFORCED CONCRETE PIPE INV = INVERT (\*) = PER SURVEY PERFORMED BY WI INV = INVERT (\*) = PER SURVEY PERFORMED BY WILLIAM G. WALLACE, DATED AUGUST 30, 1968, JOB NUMBER 68-475.

 $\begin{array}{l} \mbox{CONC} = \mbox{CONCRETE} \\ \mbox{ELEV} = \mbox{ELEVATION} \\ \mbox{SGR} = \mbox{SET IRON ROD & CAP} \\ \mbox{T} = \mbox{TOWSHIP} \\ \mbox{R} = \mbox{RANGE} \\ \mbox{OR}, = \mbox{OFICIAL RECORDS} \\ \mbox{NGFS} = \mbox{NO CORRET FOUND OR SET} \\ \mbox{D} = \mbox{IDENTIFICATION} \\ \mbox{W} = \mbox{WTH} \\ \mbox{WS} = \mbox{WTH} \\ \mbox{MES} = \mbox{MITHERD END SECTION} \\ \mbox{TYP}, = \mbox{TYFICAL} \\ \mbox{PREFAB = \mbox{PREFAB = PREFABILICATED} \\ \mbox{OL} = \mbox{OLALINK FENCE} \\ \mbox{OL} = \mbox{OLALINK FENCE} \\ \mbox{W} = \mbox{UTILTY POLE} \\ \mbox{W} = \mbox{TILCO PEDESTAL} \end{array}$ 



JOHNNY L. FLASKAMP FLORIDA PROFESSIONAL SURVEYOR & MAPPER NO. 6601

ENGINEERING GROUP, INC.
TAMPA, FLORIDA 33637 (813) 615-1422 FLORIDA LICENSED BUSINESS 7906

REVISIONS



NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR & MAPPER.

# THIS SURVEY IS NOT VALID OR COMPLETE WITHOUT SHEETS 1, 2 & 3 BEING BOUND TOGETHER. SEE SHEET TWO FOR TOPOGRAPHIC LOCATION OF **IMPROVEMENTS ON ROOFTOP OF BUILDING.** SEE SHEET THREE FOR SKETCH OF THE PARENT TRACT.

# TOPOGRAPHIC LOCATION OF IMPROVEMENTS ON ROOFTOP OF BUILDING

	DRAWING INFORMATION:	SITE INFORMATION:	
	FIELD DATE: 03-17-2022	MIMIA00378A	
	DRAWN DATE: 03-24-2022	125 OCEAN AVENUE PALM BEACH SHORES, FLORIDA 33404	
	CHECK DATE:	(PALM BEAC	H COUNTY)
	03-24-2022 SECTWPRGE.: 26-42S-43E	SMW PROJECT NUMBER: 22-5191	SURVEY SHEET 1 OF 3





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	FOR 24"x36" DRAMINGS GRAPHIC SCALE: I INCH = 20 FEET FOR 11"x17" DRAMINGS	
	GRAPHIC SCALE: 1 INCH = 40 FEET	
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F	IMPROVEMENTS ON ROOFTOP OF BUILDING	
	DRAWING INFORMATION: FIELD DATE: MINIADO378A	
T	DRAWN DATE:	
КЭ	CHECK DATE:	404
	03-24-2022 SMW PROJECT NUMBER: SURVEY	
	26-42S-43E 22-5191 SHEET 3 OI	<sup>-3</sup>



Town of Palm Beach Shores 247 Edwards Lane Palm Beach Shores, FL 33404

# Next Steps After Development Review Committee

# If an additional Development Review Committee (DRC) meeting is required:

- Revise Development Application and accompanying plans addressing all comments provided to you at the initial DRC meeting.
- Submit ten (10) new sets of paper documents folded and sorted into complete packet sets (1 original, 9 copies, 3 of which are sealed) and an electronic copy of all documents (on cd or thumb drive) to Town Hall by close of business on Monday of the week prior to the regularly scheduled DRC meeting.

Applications that fail to include all revisions required by the DRC, or that are submitted late, will not be placed on a DRC agenda until they have been corrected and are timely.

\*Regular DRC meetings are scheduled for the first Wednesday of each month.

- > If moving on to a Planning and Zoning Board meeting:
  - Revise Development Application and accompanying plans addressing all comments provided to you at the initial DRC meeting.
  - Submit ten (10) new sets of paper documents folded and sorted into complete packet sets (1 original, 9 copies, 3 of which are sealed) and an electronic copy of all documents (on cd or thumb drive) to Town Hall.
  - 3. A sufficiency review will be performed by Town staff to confirm that all comments provided by the DRC have been addressed and a complete, revised application submitted.
  - 4. If Town staff determines that all DRC comments <u>HAVE</u> been addressed and a complete application submitted, then the package, as submitted, will be placed on the agenda for the next available Planning and Zoning Board meeting, subject to legal advertising requirements.
  - 5. If Town staff determines that all DRC comments <u>HAVE NOT</u> been addressed, or an incomplete application submitted, the applicant will be notified that the submittal is deficient. The applicant will need to revise their submittal to address all outstanding DRC comments, including those noted during the sufficiency review, and resubmit a revised package (ten (10) new sets of paper documents folded and sorted into complete packet sets (1 original, 9 copies, 3 of which are sealed) and an electronic copy of all documents (on cd or thumb drive)).
  - 6. Once all DRC and subsequent sufficiency review comments have been adequately addressed and a complete, revised application submitted, the submittal will be placed on the agenda for the next available Planning and Zoning Board meeting, subject to legal advertising requirements.

Applications that fail to include all revisions required by the DRC or staff as part of the sufficiency review, or that are incomplete, will not be placed on a Planning and Zoning Board agenda until they have been corrected and are complete.

\*Regular Planning and Zoning Board meetings are scheduled for the fourth Wednesday of each month.

Note that pursuant to Town Code Sections Pf. 17.1 and Pf. 17.4, Applicants are responsible for <u>all</u> <u>costs</u> associated with consultant review of development applications, which includes sufficiency review on resubmittal. Failure to address ALL COMMENTS provided during DRC review will result in additional costs incurred by the Applicant for resubmittal and re-review of incomplete and/or uncorrected applications.

If you have any questions, please contact Evyonne Browning, Town Clerk at (561) 844-3457 or via email at ebrowning@pbstownhall.org.

S:MyDocuments/Bldg Dept/DRC/1 P&Z Requirement Sheet

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PROJECT NAME:	Sandal	Ln

# SUBMITTAL CHECKLIST

Reviewed By:	
Date:	
Fee Paid:	
Town Receipt No:	

All submittals <u>must</u> include ten (10) paper sets (folded & sorted into complete packet sets) and an electronic copy (on cd or thumb drive) of the following:

Completed Development Application (complete all fields, use N/A when not applicable).

Architectural & Aesthetic Review Request (pg. 11, all submittals)

Variance Request (pg. 13, if applicable)

Special Exception Request (pg. 14, if applicable)

Boundary Survey (Dated to within 6 months of application submission).

Signed and Sealed Schematics depicting building on site, setbacks, grading, drainage and elevations, as well as the relationship of the site to the neighboring sites (e.g. Site Plan, Drainage and Grading Plan, Roof Plan, Landscape Plan, Elevations).

Tabular Data showing compliance with all lot coverage, floor area, building height, grade and landscaping requirements.

# SITE PLAN CHECKLIST

Please be sure to include the following on the Site Plan:

Depict and label 10' Town Strip (front of property) and 5' utility easement (rear of property), and all other applicable easements.

, Depict and label all setbacks and Code required setback lines (front, rear, side, pool, etc.).

Provide a tabular data table reflecting data from the tables on pgs. 7-8 of this development application.

For renovations and/or additions, please shade proposed addition area(s) to differentiate from existing.

Jaclude all a/c equipment, pool equipment and emergency generators and label as proposed or existing.

Ensure that beam height and top of roof are dimensioned on all elevation drawings submitted.

Provide a construction schedule for the proposed project (including calendar dates).

# LANDSCAPE PLAN CHECKLIST

Please	be sure to include the following on the Landscape Plan:
V	Depict and label the 10° Town Strip (front of property) and 5° utility easement (rear of property).
A	Include and label both existing (to remain) and proposed landscaping on the subject property.
F	Provide a species legend/key including the height of all landscaping to be provided at installation.
H	Ensure that the requirements for 10° Town Strip and front yard trees are met.
Ä	For multi-story construction, ensure that the requirements for privacy screening are met.
B	Ensure screening is provided for all ground mounted mechanical equipment (e.g. a/c compressors, pool equipment, emergency generators).
NOTI	E. Checklists are not comprehensive. They are provided solely to remind Applicants to include iter

NOTE: Checklists are not comprehensive. They are provided solely to remind Applicants to include items commonly omitted from plans submitted to the Town.

Cover Page

CONTRACTOR OF THE OWNER	DEVELOPMENT APPLICATION TOWN OF PALM BEACH SHORES 247 EDWARDS LANE PALM BEACH SHORES, FL 33404 (561) 844-3457	
OWNER/APPLICAN	NT: NCJ Partners LLC	
PROJECT ADDRES	s: Sandal Ln	

APPLICATION NO .:

SUBMITTAL DATE: -

# TYPE OF APPROVAL(S) REOUESTED (Check box(es) ☑)

ADMINISTRATIVE APPEAL	N/A	SITE PLAN MODIFICATION (14-62)	N/A
ARCHITECTURAL AND AESTHETIC REVIEW (Pf. 14-86)	X	SITE PLAN REVIEW (14-62)	X
COMPREHENSIVE PLAN AMENDMENT (Pf. 17.3(B))	N/A	SPECIAL EXCEPTION (Pf. 15.8)	N/A
PLAT APPROVAL	N/A	VARIANCE (Pf. 15.4)	N/A
REZONING (Pf. 17.3(B))	NIA	ZONING TEXT AMENDMENT (Pf. 17.3(B))	N/A

	PROPERTY OWNER(S)	APPLICANT (If different than Owner(s))
NAME:	NCJ Partners LLC	
ADDRESS:	1110 N Olive Ave	
PHONE:	352-267-2072	
EMAIL:	Nicholis @ nrhhomes. com	

	AGENT (If different than Owner(s))	CURRENT OCCUPANT (If different than Owner(s))
NAME:	Nicholis Heine	
ADDRESS:	300 Linda Ln	$\times$
PHONE:	352-267-2072	
EMAIL:	nicholis@nehhomes.com	

	PLANNER	DEVELOPER
NAME:		Owner
ADDRESS:		
PHONE:		
EMAIL:		

	ARCHITECT	LANDSCAPE ARCHITECT
NAME:	Stevie Bruh	Debra Northsea
ADDRESS:	2101 Vista Parkway suite 241 WPB, FL 33411	6008 Eagles Nest Dr Jupiter/H2 33458
PHONE:	561-252-8797	561-758-6739
EMAIL:	Sibarch. Design @gmail.com	PLINLA Pesign @ aol.com

	SURVEYOR	ATTORNEY
NAME:	PM Surveying	
ADDRESS:	4546 Cambridge St WPB, FL 33415	
PHONE:	561-478-7764	
EMAIL:	angela@ pmsurveying . net	

	ENGINEER (USE ADD'L. SHEET FOR MULTIPLE ENGINEERS)	
NAME:	Samuel Palerno PE	
ADDRESS:	3100 Suif Way Riviera Beach, FL 33404	
PHONE:	561-351-5278	
EMAIL:	Spalermo@ecpc-US.com	

# **OWNER ACKNOWLEDGMENT & CERTIFICATION**

I (We) affirm and certify that I (We) understand and will comply with all provisions and regulations of the Town of Palm Beach Shores, Florida. I (We) understand that if this Application is approved by the Town, the aforementioned real property described herein will be considered, in every respect, to be a part of the Town of Palm Beach Shores and will be subjected to all applicable laws, regulations, taxes and police powers of the Town including the Comprehensive Plan and Zoning Ordinance. I (We) further certify that all statements and diagrams submitted herewith are true and accurate to the best of my (our) knowledge and belief. Further, I (We) understand that this Application and attachments become part of the Official Records of the Town of Palm Beach Shores, Florida and are not returnable. I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

- Owner acknowledges and understands that the fee for site plan review, architectural/aesthetic review, variance, special exception, rezoning, etc. *may not cover all review costs*. A final statement of any outstanding costs (covering advertising costs, legal, architectural and other consultant costs) will be sent to the applicant upon completion of the review process. Owner accepts financial responsibility for all costs incurred as a result of this Application.
- A construction schedule is required of all developers during the development process. The Planning and Zoning Board must approve your proposed construction schedule.
- 3. The Town requires payment of impact fees for floor area added during the development, redevelopment or renovation of a property. These impact fees will be used to pay for capital improvements relative to Fire Protection, Police Protection, Parks & Recreation and Public Buildings. Impact fees must be paid to the Town before a Certificate of Occupancy will be issued.
- Roll-off dumpsters for construction/demolition debris and solid waste must be rented through the Town's contracted solid waste hauler, Waste Management.
- 5. Final as-built plans must be submitted to the Town in digital form, preferably in PDF format.

# By signing below, I acknowledge that I have read and understand the five (5) items listed above.

Signature of Owner

NCJ Pactnere LLC

Printed Name of Owner

# <u>11/4/22</u> Date

# STATE OF FLORIDA PALM BEACH COUNTY:

The foregoing instrument was acknowledged before me by means of  $\nearrow$  physical presence or  $\Box$  online notarization this  $\underline{\underline{H}}_{ine}$  day of <u>November</u> 20 27. by <u>Nichelis Heine</u> who is personally known to me or has produced (type of identification) as identification.

Leah Wall greed

(Name - type, stamp or print clearly)

(Signature)

NOTARY'S

Leah Wallesverd Comm. #HH097544 Expires: May 2, 2025 Bonded Thru Aaron Notary

Page 3 of 14

# AUTHORIZATION OF AGENT & ACKNOWLEDGEMENT OF FINANCIAL RESPONSIBILITY

Consent to an agent is required from the property owner(s) and contract purchaser, if applicable, if the property owner(s) or contract purchaser does not intend to attend all meetings and public hearings and submit it person all material pertaining to the Application. Consent to a firm shall be deemed consent for the entire firm, unless otherwise specified.

This form shall serve as consent for the agent identified below to prepare or have prepared all documents for the Application affecting property I (We) have an ownership interest in.

I (We) hereby designate and authorize the below-signed person to act as my (our) agent in regard to this Application and accept financial responsibility for any costs incurred by the agent as a result of this Application. Further, I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

Signature of Owner or Trustee	Date
STATE OF FLORIDA	
The foregoing instrument was acknowledged befor notarization this day of	no me by means of $\Box$ physical presence or $\Box$ online
by	who is personally known to me or has
produced (type of identification	on) as identification.
(Name - type, stamp or print clearly)	(Signature)
	NOTARY'S SEAL
Agent Information:	
Printed Name of Agent	Name of Firm
Signature of Agent	Date

# PROCEDURES AND TIMELINES

All development applications required to be submitted to the Planning and Zoning Board for review (Site Plan Review, Site Plan Modification, Architectural and Aesthetic Review, Special Exceptions and Variances) will be subject to the following procedures:

- 1. Development Review Committee ("DRC") review is regularly scheduled for the first Wednesday of each month at 2:00 pm. In order to be placed on the DRC agenda, a complete application must be submitted to the Town Clerk by the close of business on Monday of the week prior to the regularly scheduled DRC meeting. Incomplete applications and late submittals will not be placed on a DRC agenda.
- 2. If, as a result of the initial DRC review, it is determined by the DRC that a subsequent DRC meeting is necessary, the complete revised application must be submitted to the Town Clerk by the close of business on Monday of the week prior to the regularly scheduled DRC meeting. Applications that fail to include all revisions required by the DRC, or that are submitted late will not be placed on a DRC agenda until they have been corrected and are timely.
- 3. If, as a result of the initial DRC review, it is determined by the DRC that the project can proceed to the Planning and Zoning Board, a complete Planning and Zoning Board application must be submitted to the Town Clerk including all revisions noted by the DRC. A sufficiency review will be performed by the Town to confirm that all comments provided by the DRC have been addressed and a complete revised application submitted. Once all DRC comments have been adequately addressed and a complete revised application submitted, the submittal will be placed on the agenda for the next available Planning and Zoning Board review is regularly scheduled for the fourth Wednesday of each month. Applications that fail to include all revisions required by the DRC or that are incomplete will not be placed on a Planning and Zoning Board agenda.

# APPLICATION FEE INFORMATION

Administrative Appeal	\$250.00
Site Plan Review	\$350.00
Site Plan Modification Review	\$350.00
Variance Request	\$350.00
Special Exception Request	\$250.00
Telecom Site Plan Review or Modification	\$500.00
Plat Approval Request	\$600.00
Comprehensive Plan Amendment	\$750,00
Zoning Text Amendment / Rezoning	\$750.00
Sufficiency Review	Zoning Official (rate per hour)

# NUMBER OF COPIES REOUIRED

Development Review Committee	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor, and an electronic copy of all documents (on ed or thumb drive).
Planning and Zoning Board	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor, and an electronic copy of all documents (on ed or thumb drive).
Local Planning Agency	Ten (10) copies (folded & sorted into complete packet sets).
Town Commission	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor (as applicable), and an electronic copy of all documents (on ed or thumb drive).

Applicant acknowledges and understands that the fee for Site Plan Review, Architectural/aesthetic Review, Variance, Special Exception, Rezoning, etc. may not cover all review costs. A final statement of any outstanding costs (covering advertising costs, legal, architectural, and other consultants) will be sent to the Applicant upon completion of the review process. Tabular data showing compliance with all lot coverage, floor area, building height, grade and landscaping requirements must be provided on all submitted plans (Town Code § 14-62).

PROJECT NAME: Sandal Ln

PROJECT ADDRESS: XXX Sandal Ln

PROJECT LEGAL DESCRIPTION: Lot 332, Rel Beach Shore, Lot 343

\*\*\* All boxes must be completed, use N/A where appropriate \*\*\*

GENERAL DATA	CODE REOUIREMENT	EXISTING	PROPOSED
COMPREHENSIVE PLAN DESIGNATION: (SF-5, MF-21, MF-30, MF-42, P, ROS)	None	SF	SF
LAND USE: (Residential, Commercial, Recreational, Marina, Public, etc.)	None	Residential	Residential
ZONING DISTRICT: (A. B. C. D. P. ROS. designated at Pf. 3.1, Zoning Ordinance)	None	A	A
FLOOD ZONE CATEGORY:	None	". ,-"X"	······································
LOT COVERAGE, LANDSCAPING & PARKING	CODE REQUIREMENT	EXISTING	PROPOSED
TOTAL LOT SIZE: (sq. ft.)	None	9.629	9 129
TOTAL COVERAGE OF A LOT BY BUILDINGS: (Pf. 5.4, 6.4, 7.5 or 8.5, Zoning Ordinance)	40% + 200 sq. ft PF 5.4(a)	N/4	38.1.
TOTAL LANDSCAPE COVERAGE: (Pf. 5.4.3, Zoning Ordinance)	20%	100 %	37 :/.
OFF-STREET PARKING: (Pf. 5.13, 6.12, 7.13 or 8.14, Zoning Ordinance)	N/A	N/A	N/A
SETBACKS	CODE REQUIREMENT	EXISTING	PROPOSED
FRONT YARD: (Pf. 5.5, 6.6, 7.7 or 8.7, Zoning Ordinance)	25' PF 5.5	N/A	25'
REAR YARD: (Pf. 5.6, 6.7, 7.9 or 8.9, Zoning Ordinance)	15'-25' PF5.6	N/A	15' For 25' 25' for rest of house
SIDE YARD: (Pf. 5.7, 6.8, 7.8 or 8.8, Zoning Ordinance)	7' PF 5.7	N/A	7' 1.5"

FLOOR AREA	CODE REQUIREMENT	EXISTING	PROPOSED
FIRST FLOOR AREA (sq. fl.):	None	N/A	3,247
SECOND FLOOR AREA (sq. ft.): (Pf. 5.4.2, Zoning Ordinance)	N/A	N/A	N/A
TOTAL FLOOR AREA (sq. ft.): (Pf.2.23, Zoning Ordinance)	None	N/A	3, 247
FLOOR AREA RATIO: Pf. 5.4.2, Zoning Ordinance)	NIA	N/A	N/A
DWELLING UNIT DENSITY: (Pf. 6.5, 7.6 or 8.6, Zoning Ordinance)	1	1	1
IMPERVIOUS AREA	NET INCREASE	EXISTING	PROPOSED
BUILDING FIRST FLOOR AREA (sq. fl.):	3,247	N/A	3,247
OTHER IMPERVIOUS AREA (sq. ft.): (Decks, Patios, Walkways, Driveways, Pool Deck & Pool Surface Areas)	2,140	NIA	2,140
TOTAL IMPERVIOUS AREA (sq. ft.):	5,437	N/A	5,437
ELEVATIONS	CODE REQUIREMENT	EXISTING	PROPOSED
GRADE ELEVATION (NAVD): (Pf. 4.6, Zoning Code)	1.5'-2.0' Abr crown of Read	9.63	10.25
ESTABLISHED 1 <sup>ST</sup> FLOOR ELEVATION (NAVD): (Pf. 4.6, Zoning Code)	N/A	N/A	10.75
MEAN CROWN OF ROAD ELEVATION (NAVD):	None	8.75	8.75
BUILDING HEIGHT	CODE REQUIREMENT	EXISTING	PROPOSED
TOTAL BUILDING HEIGHT (NAVD): (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)	24'	N/A	21'35/8"
TOP OF BEAM HEIGHT (NAVD): (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)	N/A	N/A	14'1"
ROOF PITCH: (Pf. 5.2, 6.2 or 7.3, Zoning Ordinance)	PF 5.2(2)	N/A	5/12
FLAT ROOF PERCENTAGE: (Pf. 5.2, Zoning Ordinance)	N/A	N/A	N/A

# JUSTIFICATION STATEMENT

Provide a summary of the proposed project, describing in detail the construction, phasing and proposed development to occur as part of this application (attach additional sheets if needed):

Hach

Note: Construction Schedule is due as part of site plan review and before building permit issuance. (Town Code §14-63). A signed and notarized contract (signed by owner) must be provided before building permit issuance. (Town Code §14-108).

Provide an estimate of construction costs:

\$ 600,000

Vacant Land

history

No

Describe the existing improvements located on the subject property (attach additional sheets if needed):

Provide a project history for the subject property, including any prior development approvals filed within the last year in connection with the subject property. Please include the date of previous site plan approval by the Planning and Zoning Board for this property (attach additional sheets if needed):

Provide the justification, special reasons, or basis for the approval of this application. Explain why this application is consistent with good planning and zoning practice, will not be contrary to the Town's Comprehensive Development Plan, and will not be detrimental to the promotion of public appearance, comfort, convenience, general welfare, good order, health, morals, prosperity, and safety of the Town. Additionally, all standards set forth in the Town Code of Ordinances for Special Exceptions, Variances, Administrative Appeals, etc. must be addressed. (attach additional sheets if needed):

build a SF home that complies with all planning&

Zoning requirements.

Provide any other pertinent information related to the subject property to support the proposed request.

None

# DRAINAGE REQUIREMENTS

# (For projects proposing additional on-site impervious area)

For proposed renovations/modifications to existing projects that result in <u>LESS THAN</u> a 50% increase in total site imperviousness, retain 1" of stormwater volume from the total additional impervious area.

For proposed new construction, or renovations/modifications to existing projects that result in a <u>GREATER</u> <u>THAN</u> a 50% increase in total site imperviousness, retain 1" of stormwater volume over the entire site.

Submit a Survey with topographic elevations and existing improvements.

A Drainage and Grading Plan and drainage calculations are required to be submitted with the application package for new construction projects and substantial modifications to existing projects. The Drainage Plan must show the following:

- Existing and proposed elevations.
- b. Location of sodded swales, sodded depressed retention areas, underground exfiltration trench and/or other proposed stormwater treatment/retention methods.
- c. Underground piping and inlets and other drainage system improvements proposed.
- Drainage calculations showing the retention of the volume of 1" of stormwater from addition impervious areas (or overall site).
- e. Show drainage improvements and underground piping, including water and sewer services, on the Landscape Plans to show no conflicts exist.
- f. Include note that no runoff may be directed to adjacent properties and all storm flows and runoff must be retained on-site prior to discharge into the adjacent roadway right-of-way following retention of required stormwater volume.
- g. Provide engineering details of gutter and downspout dry wells, if proposed.
- Provide engineering detail of exfiltration trench, if proposed.
- Provide engineering detail of sodded swales, if proposed.
- Provide engineering detail of depressed dry retention areas, if proposed.
- Provide Geotechnical Report or engineering assumptions/justification for coefficient of permeability (K Factor) for exfiltration trench design, if proposed.
- Engineering details/cross sections at property lines demonstrating no runoff will flow to adjacent properties may be required.

Project Engineer or Architect shall be responsible for insuring the drainage improvements are completed in substantial accordance with the approved plan.

Prior to C.O., Project Engineer or Architect to provide final signed and sealed certification that the drainage improvements and grading have been completed in substantial accordance with the approved plan.

Upon receipt of final Certification from Project Engineer or Architect, Town Engineer to visit site and ensure conformance of Town requirements prior to issuance of final C.O.

# REQUEST FOR ARCHITECTURAL AND AESTHETIC REVIEW

Please be advised that pursuant to Sec. 14-86 and 14-87 of the Town Code of Ordinances, the Town Planning and Zoning Board uses the following criteria in order to complete its Architectural and Aesthetic Review. Each criteria must be addressed by the applicant prior to the application being processed.

1. Relationship of building to site: (Explain transition from streetscape; placement of parking and service areas; and compatibility of building height and scale with site):

Stret iment the alons the ve vay to allow maximum 2. Relationship of building and site to adjoining area(s): (Explain how structures and landscaping are consistent with established neighborhood character and will enhance the surrounding area. Include description of architectural style, as well as textures, materials and colors to be utilized); installed exceeding landsape SCAR coastal and blac shulters, and a white 5 uninua color Pitteria 3. Landscape and site treatment: (Explain how landscaping, exterior lighting and other site elements will be used to enhance architectural features, buffer the mass of buildings as appropriate, and enhance the privacy of the owner and neighbors. Describe the use of native species and xeriscaping as appropriate.): and exceed hores standards. Ve have meet do nice tox-lai Palms will be landscaping hames hristmas , and coconut hedges, lanama Rose, and hibisen along Sia 4. Building design: (Explain proposed building design and style, and how components such as roofs, windows, doors, caves and parapets are balanced in proportion to each other; address harmoniousness of colors, visual interest

ind compatibility): The design is a Florida Coastal look. We have built these homes multiple times and everything flows very well.

Please provide all documentation and/or samples necessary to address all architectural review criteria as applicable. Attach additional pages as necessary.

renderings 100r

REQUEST FOR SITE FEAR MO	DITICATION
reviously approved (Original) site plan information:	
a. Original Project Name:	
b. Original Site Plan Application No	
c. Original Ste Plan Approval Date:	
d List of all other relevant information on file with original applicati	ion:
	/
equested Modification(s):	
X	
	/

# REQUEST FOR VARIANCE

he Applicant is requesting a variance from the Town Code	Section(s)	to permit the following:
lease be advised that a variance from the terms of the Zor coning Board, nor granted by the Town Commission, unles	ing Code shall not b s the Applicant is abl	e recommended by the Planning and le to demonstrate the following:
Explain the special conditions and circumstances which wolved and which are not applicable to other lands, structu	exist that are peculi ares, or building in th	or to the land, structure, or building e same zoning district:
	/	
. Explain how the special conditions and cocumstances th	at exist do not result	from the actions of the Applicant:
	/	
	/	
ights commonly enjoyed by other properties in the same and would work unnecessary and undue hardship or the	zoning district unde Applicant:	er the terms of the Zoning Cod
Explain how the variance requested is the minimum var building or structure:	iance that will make	possible a reasonable use of the land.
<ol> <li>Explain how the granting of the requested variance will denied by the Zoning Code to other lands, structures, or build</li> </ol>	I not confer on the A Idings in the same zo	pplicant any special privilege that is ning district:
/		<u> </u>
5. Explain how the grant of the requested variance will t	oc in harmony with t or otherwise detrime	he general intent and purpose of the ental to the public welfare:
Zoning Code and will not be injurious to the neighborhood		
Zoning Code and will not be injurious to the neighborhood		
Zoning Code and will not be injurious to the neighborhood		

# REQUEST FOR SPECIAL EXCEPTION

Special Exception shall not be recommended to a commission unless the Applicant is able to d	by the Town Planning and 2 temonstrate the following:	Zoning Board, nor granted by the
Explain how all structures will be separated from a	adjacent and nearby uses by a	appropriate screening devices:
	/	
Explain whether or not excessive vehicular traffic	will be generated on surroun	ding residential streets:
Explain whether or not a vehicular parking or baff	fic problem is created:	
	$ \land $	
Explain where on the site appropriate drives, walk	ways and buffers will be inst	alled:
Explain how the proposed use will make a substar of infringe on the rights of properties in the vicinity	atial contribution to the neigh	borhood environment and will
	/	\ \
Explain how the proposed use will not endanger, r	estrict or impair public safet	v:



# FRONT ELEVATION

# XXX Sandal Ln

					Period Highlight:	0	Plan Duration	🖉 Actual Start 🎆 % Complete 🔟 Actual (beyond plan) 🔤 % Complete (beyond plan
ACTIVITY	PLAN START	PLAN DURATION	ACTUAL	ACTUAL	PERCENT COMPLETE	Dec. Jan. 1 2	Feb. Mar. Apr. May June July 3 4 5 6 7 8	
Advisory Board	1	1	**		100%			
Zoning Board/ Permitting	2	1	2		100%			
Home Start-Finish	M	9	m	9	100%		Strate Land	



]			
]			



2447 S.F. 528 S.F. 55 S.F. 217 S.F.

3247 S.F.











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# RESIDENCE FOR:

# NRH HOMES

130 SANDAL LANE PALM BEACH SHORES, FLORIDA

# SHEET INDEX

A-1 SITE PLAN

- A-2 ELEVATIONS
- A-3 ELEVATION & BLDG. SECTION

TROJECT DATA			
IMPERVIOUS AREA	NET INCREASE	EXISTING	PROPOS
BUILDING FIRST FLR AREA (sq.ft.)		N/A	3247
OTHER IMPERVIOUS AREA (sq.ft.) (Deck, Patio, Walkways, Driveways, Pool Deck& Pool Surface Areas)			2190
TOTAL IMPERVIOUS AREA (sq.ft.)			5473
ELEVATIONS	CODE REQUIREMENT	EXISTING	PROPOS
GRADE ELEVATION (NAVD) (Pf. 4.6 Zoning Code)	18-24" ABOVE THE CROWN OF THE RD.	9.63	10.25
ESTABLISHED 1st FLR ELEV. (NAVD) (Pf. 4.6 Zoning Code)	N/A	N/A	10.75
MEAN CROWN OF ROAD ELEVATION (NAVD)	None	8.75	8.75
BUILDING HEIGHT	CODE REQUIREMENT	EXISTING	PROPOS
TOTAL BUILDING HEIGHT (NAVD) (Pf. 5.2, 6.2, 7.3 or 8.3 Zoning Ord.)	24'	N/A	
TOP OF BEAM HEIGHT (NAVD) (Pf. 5.2, 6.2, 7.3 or 8.3 Zoning Ord.)	N/A	N/A	14'1'
ROOF PITCH (Pf. 5.2, 6.2, or 7.3 Zoning Ord.)	Pf. 5.2 (d)	N/A	5/12
FLAT ROOF PERCENTAGE (Pf. 5.2 Zoning Ordinance)	N/A	N/A	N/A



