

metroPCS

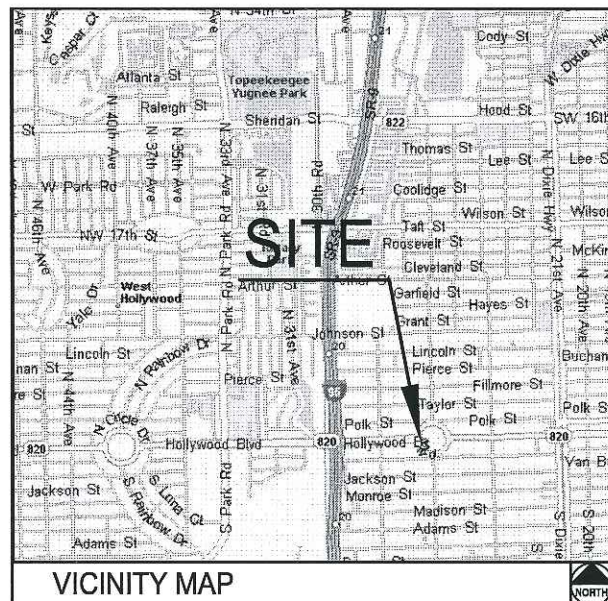
FLORIDA, LLC.

1000 SAWGRASS CORPORATE PARKWAY, SUITE 400
FT. LAUDERDALE, FL. 33323

HOLLYWOOD CITY HALL FL-801, 6FB1440M_FINAL

2600 HOLLYWOOD BLVD.
HOLLYWOOD, FL 33020

LATITUDE 26°00'39.9924"N, LONGITUDE 80°09'34.0986"W



STARTING ON THE METRO PCS OFFICE, TAKE I-595 EAST TO I-95. TAKE I-95 SOUTH TO EXIT 20 (SR-820/HOLLYWOOD BLVD.). EXIT DUE EAST ON HOLLYWOOD BLVD. AND CONTINUE FOR APPROXIMATELY 0.5 MILES TO 2600 HOLLYWOOD BLVD (CITY OF HOLLYWOOD CITY HALL)

DRIVING DIRECTIONS

THIS IS AN APPLICATION FOR AN:
UNMANNED WIRELESS DATA FACILITY CONSISTING OF CABINET
AND ANTENNA UPGRADE. (6) EXISTING ANTENNAS TO BE REMOVED
AND REPLACED WITH (6) NEW ANTENNA. (6) NEW ANTENNAS TO BE
ADDED FOR A TOTAL OF (12) ANTENNAS.

PROJECT DESCRIPTION

ALL WORK AND MATERIALS SHALL BE PERFORMED AND 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.

1. 2010 FLORIDA BUILDING CODE
2. 2008 NATIONAL ELECTRIC CODE (NEC) WITH LOCAL AMENDMENTS
3. ANSI/TIA/EIA APPLICABLE STANDARDS
4. LIFE SAFETY CODE NFPA-101-2009
5. FLORIDA FIRE PROTECTION CODE 2010
6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (AISC)
7. UNDERWRITERS LABORATORIES (UL) APPROVED ELECTRICAL PRODUCTS
8. LOCAL BUILDING CODE
9. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

APPLICANT/LESSEE

MDCWC NAME: METRO PCS
PROJECT MANAGER: JOSE DELGADO
PHONE: (954) 839-2641

PROPERTY INFORMATION

OWNER: CITY OF HOLLYWOOD
ADDRESS: 2600 HOLLYWOOD BLVD.
HOLLYWOOD, FL 33022

CONTACT: CATHY ABBOTT

HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR
HUMAN HABITATION. HANDICAPPED
ACCESS NOT REQUIRED.

JURISDICTION: CITY OF HOLLYWOOD

PROJECT INFORMATION

EQUIPMENT LOCATION: ☒ OUTDOOR ☐ INDOOR

ANTENNA LOCATION: ☐ GUY TOWER
☐ SELF SUPPORT TOWER
☐ MONOPOLE
☒ ROOF TOP
☐ EXISTING TOWER
☐ N/A

PROJECT SUMMARY

CIVIL ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY
WEST PALM BEACH, FL 33411
(561) 845-0665

STRUCTURAL ENGINEER:

JWM ENGINEERING, LLC
2605 NW 34TH TERRACE
GAINESVILLE, FL 32605
(352) 505-8890

ELECTRICAL ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC.
1920 WEKIVA WAY
WEST PALM BEACH, FL 33411
(561) 845-0665

SURVEYOR:

N/A

TOWER ENGINEER:

N/A

PROJECT TEAM

SHEET	DESCRIPTION	REV.
T-1	COVER SHEET	
G-1	GENERAL NOTES	
C-1	ROOF PLAN & EQUIPMENT PLAN	
C-1A	EXISTING ANTENNA LAYOUT	
C-2	PROPOSED ANTENNA LAYOUT	
C-3	EQUIPMENT MOUNTING DETAILS	
C-4	NORTH AND SOUTH BUILDING ELEVATIONS	
S-1	ANTENNA MOUNTING DESIGN & DETAIL	
E-1	ELECTRICAL PLAN AND DETAILS	
E-2	ELECTRICAL NOTES AND DETAILS	
E-3	ELECTRICAL RISER	
SHEET INDEX		ISSUED FOR: IPP UPGRADE DATE: NOVEMBER 2013

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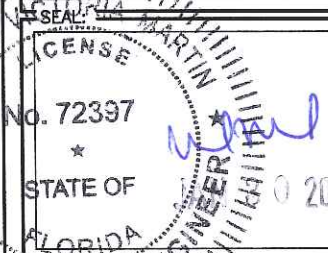
DECEMBER 5, 2013

ISSUED FOR:

IPP UPGRADE

REV. DATE DESCRIPTION:

REV.	DATE	DESCRIPTION



PLANS PREPARED BY:

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and Associates, Inc.
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(561) 845-0665
FBPE CA00000696

DRAWN BY: CHK. APV.:

RWM LF LR

LICENSURE:

LEO REPETTI PE 57573
MARIA MARTIN PE 72397

SHEET TITLE:

COVER
SHEET

SHEET NUMBER: REVISION:

T-1 0

KHA Job #:

041417163

STANDARD PROVISIONS

INTENT

- THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE PERFORMED AND THE MATERIALS TO BE FURNISHED FOR THE CONSTRUCTION OF THE METROPCS SITE.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND COMPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED ON BOTH.
- THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS INDICATED IN THE DOCUMENTS.
- THE PURPOSE OF THE SPECIFICATIONS IS TO SUPPLEMENT THE INTENT OF THE DRAWINGS AND TO DESIGNATE A PROCEDURE, TYPE OR QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.
- MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK HOWEVER, NO CHANGES THAT ALTER THE CHARACTER INTENT OF THE DESIGN WILL BE MADE OR PERMITTED BY METROPCS, WITHOUT A CHANGE ORDER.

CONFLICTS

- THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR PERFORMING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY INADVERTENTLY OCCUR SHALL BE SUBMITTED TO METROPCS CONSTRUCTION PROJECT MANAGER (CPM) FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREA.
- THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING ABOUT WHICH THE CONTRACTOR MIGHT NOT HAVE FULLY INFORMED HIMSELF PRIOR TO BIDDING.

CONTRACTS AND WARRANTIES

- EACH CONTRACTOR IS RESPONSIBLE FOR HELPING TO OBTAIN THE BUILDING PERMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR OF RECORD, AND PROVIDE SAID JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS A CONTRACTOR IN THAT JURISDICTION.

STORAGE

- ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY LOCATION AND IN A MANNER THAT WILL NOT OBSTRUCT THE FLOW OF OTHER WORK. ANY EQUIPMENT OR MATERIAL STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE MANUFACTURER.

REPAIRS AND REPLACEMENTS

- IN EVENT OF DAMAGE, THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS AND REPAIRS AND AT NO ADDITIONAL COST TO METROPCS AND/OR BUILDING OWNER.

TEMPORARY FACILITIES

- WATER:**
WATER IS NOT AVAILABLE TO THE CONTRACTORS ON SITE.
- LIGHT AND POWER:**
LIGHT AND POWER ARE AVAILABLE ON SITE.
- TELEPHONE:**
EACH CONTRACTOR TO PROVIDE HIS OWN TELEPHONE ACCESS IF REQUIRED.
- IF PERMANENT POWER IS COMPLETED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROVIDED THAT ELECTRICAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE DISCONNECTED AND PROPERLY STORED DURING NON-WORKING HOURS.

CLEAN UP

- THE CONTRACTORS SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK, AND AT THE COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING, INCLUDING ALL TOOLS, SCAFFOLDING AND SURPLUS MATERIALS, AND SHALL LEAVE THE WORK CLEAN AND READY FOR USE.
- EXTERIOR:** VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WATER MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
 - REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.

COMPLIANCE

- ALL MATERIALS, DESIGN, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES (SOME OF WHICH ARE LISTED BELOW), ORDINANCES, AND AUTHORITIES HAVING JURISDICTION OVER THE WORK. UPON THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROVIDE METROPCS WITH A CERTIFICATE OF OCCUPANCY (IF REQUIRED) AND OTHER LEGAL DOCUMENTS TO VERIFY SUCH COMPLIANCE. WHERE NO CODES EXIST, THE WORK SHALL CONFORM WITH THE 2007 FLORIDA BUILDING CODE, AND/OR THE SPECIFICATIONS HEREIN, WHICHEVER IS MORE STRINGENT, AND A DOCUMENT STATEMENT SHALL BE FURNISHED TO THIS EFFECT.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY COMPLIANCE WITH THE GOVERNING CODES AND TO NOTIFY THE CPM OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.

REFERENCE TO ANY STANDARD OR CODE OF PRACTICE IN THIS SPECIFICATION SHALL BE DEEMED TO MEAN THE EDITION CURRENT AT THE TIME OF AWARD OF THE CONTRACT. THE CONTRACTOR SHALL COMPLY WITH ALL ZONING AND SITE ACQUISITION SPECIAL STIPULATIONS AS OUTLINED IN THE JOB SPECIFICATIONS, OR AS DIRECTED BY THE CPM.

ANSI/TIA/EIA - 222 - G
2010 FLORIDA BUILDING CODE
BUILDING OFFICIALS & CODE ADMINISTRATORS
NATIONAL ELECTRICAL CODE (NEC) WITH LOCAL AMENDMENTS
UNDERWRITERS LABORATORIES (U.L.) APPROVED ELECTRICAL PRODUCTS
AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (AISC)
LIFE SAFETY CODE NFPA - 101-2009
FEDERAL AVIATION REGULATIONS
FLORIDA FIRE PROTECTION CODE 2010

PERMITS AND LICENSES

- THE SITE ACQUISITION SPECIALIST SHALL OBTAIN, AT HIS OWN EXPENSE, ALL REQUIRED LOCAL, STATE, AND/OR COUNTY CONSTRUCTION PERMITS AND LICENSES. COPIES OF ALL PERMITS SHALL BE SENT TO CPM. APPROVALS FROM RELEVANT PLANNING BOARDS, ENVIRONMENTAL BOARDS, AND/OR OTHER COMMITTEES WILL BE SUPPLIED BY OTHERS, BUT MUST BE CONFIRMED BY THE SITE ACQUISITION SPECIALIST PRIOR TO THE APPLICATION FOR CONSTRUCTION PERMITS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION AND INSTRUCTION AND NO FURTHER WORK SHALL BE PERFORMED UNTIL DISCREPANCY IS CHECKED AND CORRECTED BY THE ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS OWN RISK AND EXPENSE.
- THE CONTRACTOR SHALL BE EQUIPPED WITH A MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A CELLULAR PHONE OR A PAGER.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SITE SAFETY INCLUDING BUT NOT LIMITED TO PROTECTION OF ALL SITE PERSONNEL AND THE GENERAL PUBLIC DURING THE ENTIRE SITE CONSTRUCTION PERIOD. HE SHALL TAKE ALL REASONABLE PRECAUTIONS TO PLACE AND MAINTAIN BARRICADES, LAMPS, SIGNS, AND THE LIKE IN ACCORDANCE WITH OSHA SAFETY ACT AND ANSI OCCUPATIONAL GUIDELINES.
- EMAIL DAILY UPDATES W/ PHOTOS OF SITE PROGRESS TO METROPCS CONSTRUCTION PROJECT MANAGER RESPONSIBLE FOR SITE.
- COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO START OF CONSTRUCTION.
- COORDINATION WITH PUBLIC UTILITY AUTHORITIES**
THE CONTRACTOR SHALL COORDINATE WITH RELEVANT AUTHORITIES THE WORKS THEY ARE TO BE CARRIED OUT. HE SHALL CONDUCT HIS OPERATIONS SO AS TO NOT INTERFERE WITH THE OPERATIONS OF PUBLIC AND/OR PRIVATE UTILITY AUTHORITIES, INSTALLING SERVICES ON THE SITE.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF SUCH FACILITIES AND STRUCTURES DURING CONSTRUCTION OF THIS SITE.

INSPECTIONS

THE CONTRACTOR SHALL NOTIFY THE CPM AT LEAST 24 HOURS IN ADVANCE OF REQUIRED INSPECTIONS. INSPECTIONS THAT WILL BE REQUIRED BY THE CPM OR OTHER DESIGNATED METROPCS REPRESENTATIVE ARE:

- INSPECTION OF GROUNDING SYSTEM
- PRACTICAL COMPLETION

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING THAT ALL RELEVANT AUTHORITY INSPECTIONS ARE CARRIED OUT IN A TIMELY MANNER. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL INSPECTIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH METROPCS DESIGNATED ENGINEERING FIRM TO OBTAIN ALL REQUIRED INSPECTIONS AND TESTING. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL INSPECTIONS.

ENVIRONMENTAL PROTECTION

NOISE LEVEL: THE CONTRACTOR SHALL ENSURE THAT STATE AND LOCAL REGULATIONS ARE COMPLIED WITH IN REGARD TO NOISE LEVELS PRODUCED BY HIS OR HIS SUB-CONTRACTOR'S EQUIPMENT OR METHODS OF CONSTRUCTION.

DUST CONTROL: THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO LIMIT THE CREATION OF ANY DUST NUISANCE THAT MIGHT ARISE DURING CONSTRUCTION TO THE SATISFACTION OF THE LOCAL AUTHORITIES AND THE BUILDING OWNER. THE CPM MAY DIRECT THAT WORK CEASE UNTIL SUCH TIME AS ANY PARTICULAR DUST NUISANCE IS CONTROLLED TO THE SATISFACTION OF THE CPM, LOCAL AUTHORITIES, AND BUILDING OWNERS.

REINSTATEMENT

ANY PAVEMENT, FOOTPATH, CURB, GUTTERS, WALLS, FLOORS, SERVICES, AND EXISTING FEATURES OR OTHER PROPERTIES, DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REINSTATED TO A CONDITION AT LEAST EQUAL TO THAT EXISTING BEFORE COMMENCEMENT OF OPERATIONS.

AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PREPARE A RED LINED SET OF AS-BUILT DRAWINGS. THE FORM OF MARKED UP CONSTRUCTION PLANS SHALL BE STANDARD ACCEPTABLE TO METROPCS. SUCH DRAWINGS SHALL BE SUBMITTED TO METROPCS WITHIN 72 HOURS FROM PRACTICAL COMPLETION AND PRIOR TO APPROVAL OF THE CONTRACTOR'S FINAL INVOICE.

PRACTICAL COMPLETION

THE FOLLOWING DOCUMENTATION SHALL BE PROVIDED TO METROPCS WIRELESS PRIOR TO THE DATE OF PRACTICAL COMPLETION:

- ALL QUALITY ASSURANCE CHECKLISTS AS OUTLINED IN THE PREVIOUS SECTIONS
- WARRANTIES AND MAINTENANCE MANUALS, IF APPLICABLE
- GROUND SYSTEM RESISTANCE TEST
- CERTIFICATE OF OCCUPANCY

INSURANCE AND BONDS

- EACH CONTRACTOR SHALL AT HIS OWN EXPENSE CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT ALL INSURANCE AS REQUIRED AND LISTED AND SHALL NOT COMMENCE WITH HIS WORK UNTIL HE HAS PRESENTED A CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE GENERAL CONTRACTOR WHO SHALL, IN TURN, FORWARD A COPY OF ALL CERTIFICATES TO THE CPM.

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FT. LAUDERDALE, FL. 33323

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BROWARD COUNTY

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DECEMBER 5, 2013

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IPP UPGRADE

REV. DATE DESCRIPTION:

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PLANS PREPARED BY:

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1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FLORIDA 33411
(561) 845-0665
FBPE CA00000696

DRAWN BY: CHK.: APV.:

RWM LF LR

LICENSURE:

LEO REPETTI
MARIA MARTIN
PE 57573
PE 72397

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: REVISION:

G-1 0

KHA Job #:

041417163

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SEAL
No 72397
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2014

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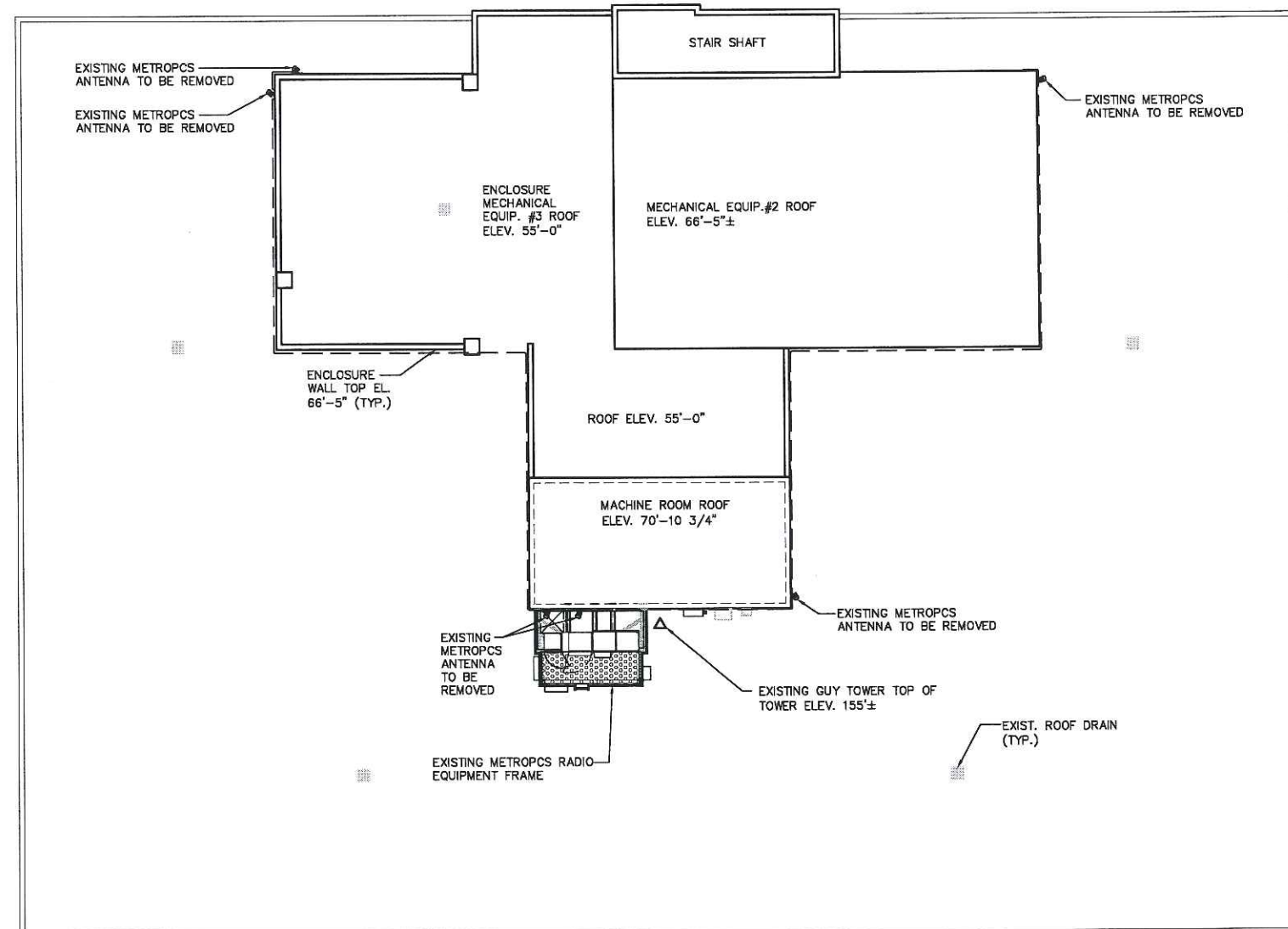
ROOF PLAN AND
EQUIPMENT PLAN

SHEET NUMBER:

C-1

KHA Job #:

041417163

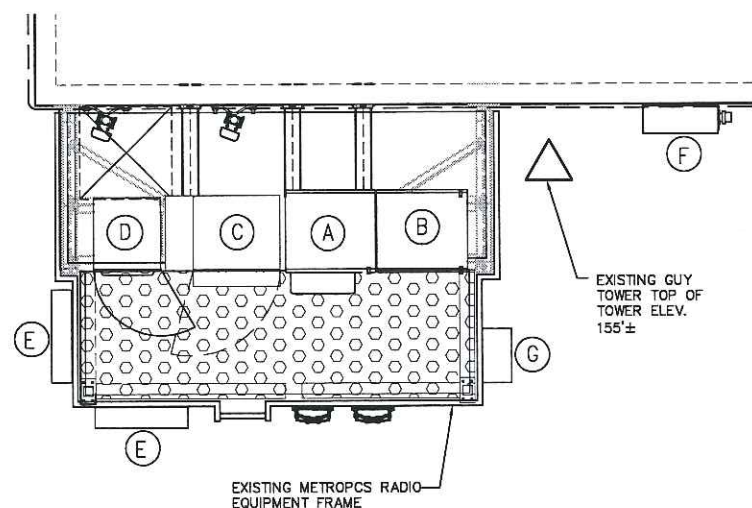


LEGEND

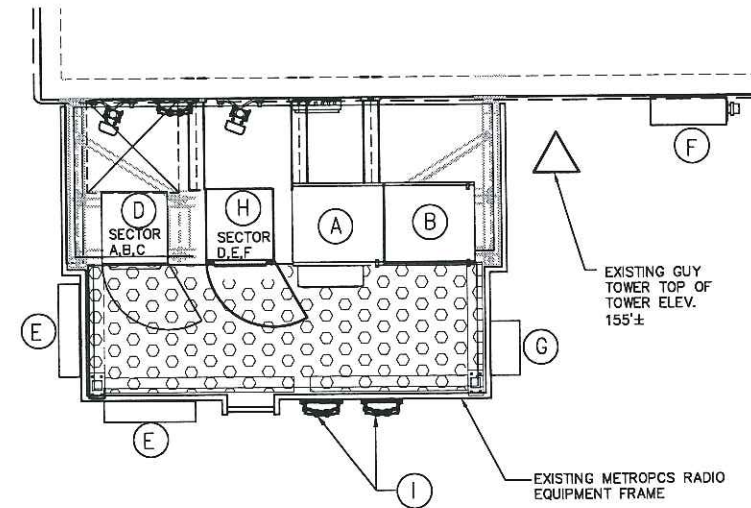
- (A) EXISTING RADIO CABINET
- (B) EXISTING BATTERY CABINET
- (C) EXISTING LTE CABINET TO BE REMOVED
- (D) EXISTING SMALL SSC CABINET
- (E) EXISTING (6) RADIO UNITS MOUNTED TO UTILITY RACK ON EXISTING HANDRAIL
- (F) EXISTING PPC CABINET
- (G) EXISTING FIBER BOX
- (H) PROPOSED SMALL SSC CABINET TO BE ANCHORED TO EXISTING BEAM WITH 1/2" A325 ANCHOR BOLTS PER MANUFACTURER SPECIFICATIONS.
- (I) PROPOSED COVP TO BE MOUNTED TO PLATFORM HANDRAIL PER MANUFACTURER SPECIFICATIONS. CONTRACTOR TO COORDINATE EXACT LOCATION WITH METROPCS CPM

NOTE: ROOF PLAN BASED ON FIELD OBSERVATIONS

EXISTING OVERALL ROOF PLAN



EXISTING EQUIPMENT PLAN

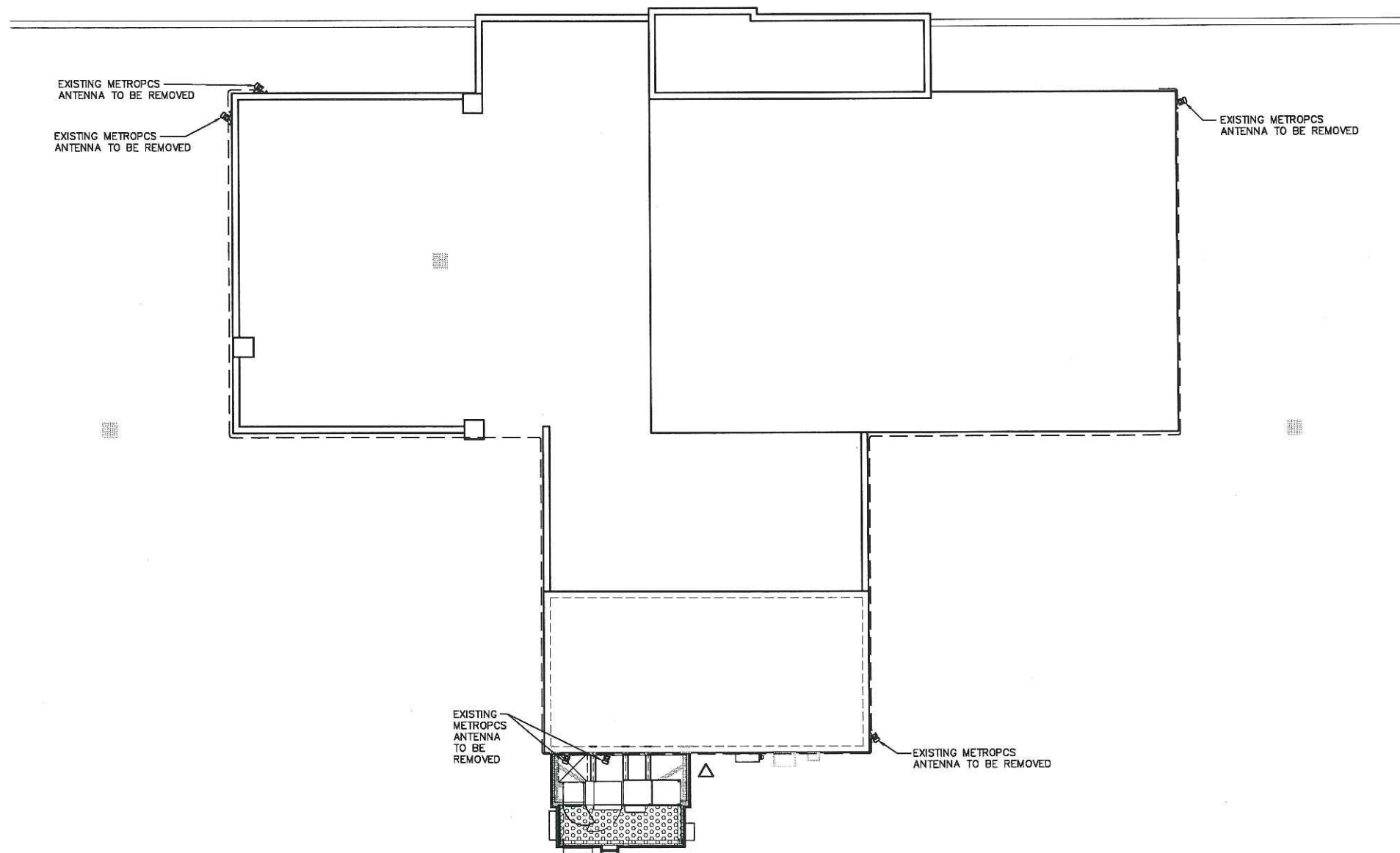


PROPOSED EQUIPMENT PLAN



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Drawing name: K:\WPB_Civil\CELL_SITES\MetroPCS\041417163 IPP Upgrade\FL-801\cell\FL-801.dwg CI A Jan 30, 2014 10:35am by: larry.flewera



EXISTING ANTENNA LAYOUT



0 7 14
SCALE AS SHOWN

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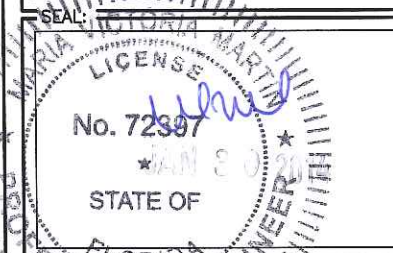
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LICENSURE:

LEO REPETTI
MARIA MARTIN

PE 57573
PE 72397

SHEET TITLE:

EXISTING
ANTENNA LAYOUT

SHEET NUMBER:

REVISION:

C-1A

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DESCRIPTION:

STATE OF
FLORIDA



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RWM	LF	LR
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LEO REPETTI	PE 57573
MARIA MARTIN	PE 72397

PROPOSED ANTENNA LAYOUT

C-2 **0**

041417163



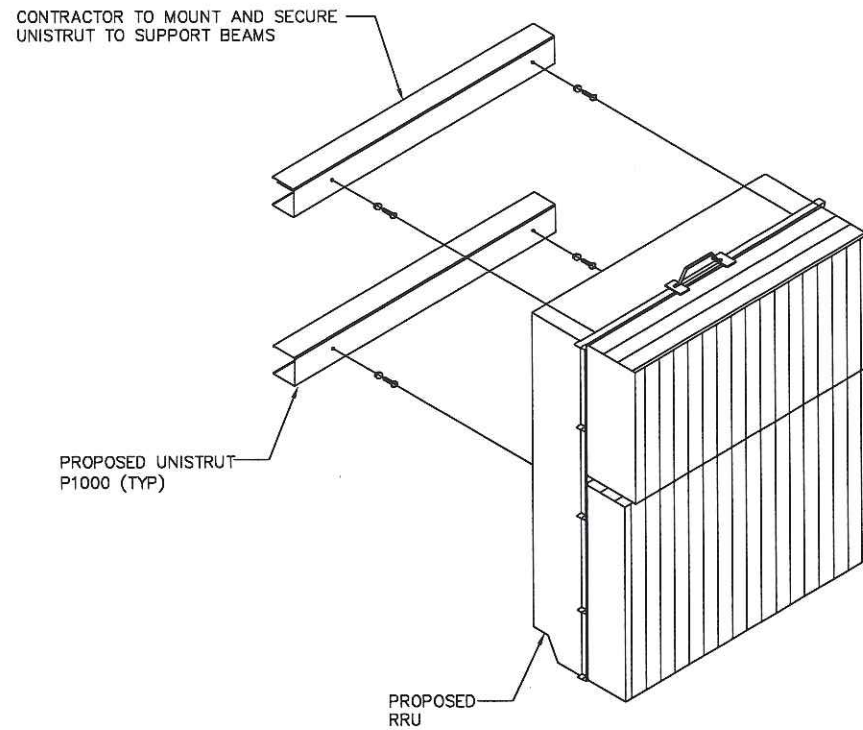
ANTENNA SECTOR	PROPOSED CONDUIT		
	LENGTH	SIZE	QTY.
SECTOR A	160'±	1 5/8"	2
SECTOR B	65'±	1 5/8"	2
SECTOR C	25'±	1 5/8"	2
SECTOR D	125'±	1 5/8"	2
SECTOR E	160'±	1 5/8"	2
SECTOR F	175'±	1 5/8"	2

0 7

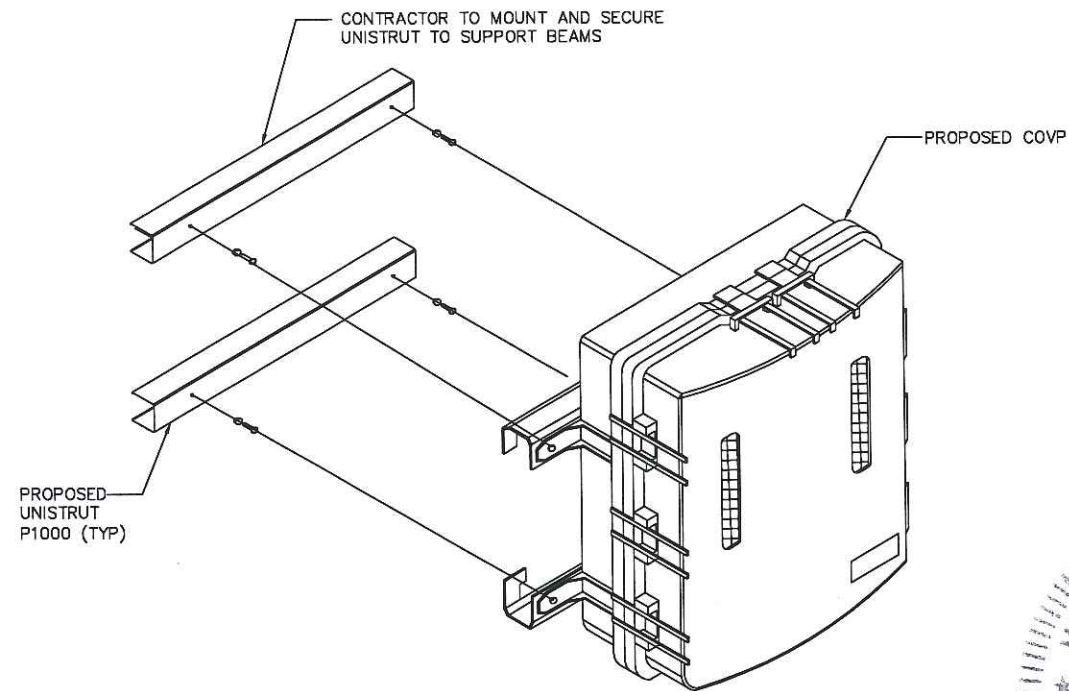
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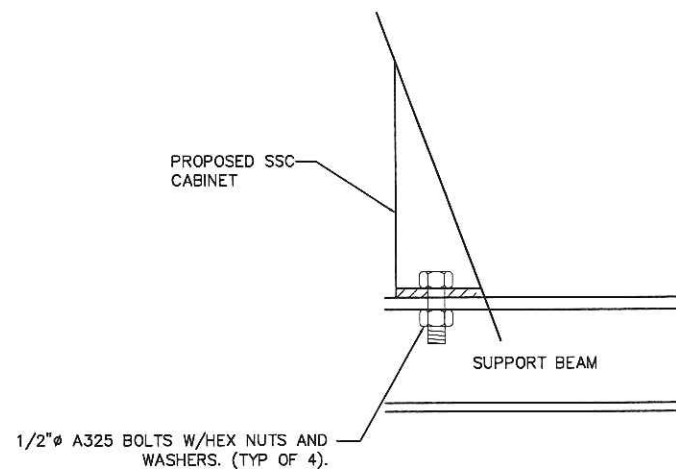
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RRU MOUNTING DETAIL
N.T.S



COVP MOUNTING DETAIL
N.T.S



SSC CABINET ANCHOR BOLT DETAIL
N.T.S

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MARIA MARTIN

PE 57573
PE 72397

SHEET TITLE:

**EQUIPMENT MOUNTING
DETAILS**

SHEET NUMBER:

REVISION:

C-3

0

KHA Job #:

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DESCRIPTION:

SEAL:

MARIA VICTORIA MARTIN
LICENSE
No. 72397
JAN 2014

PLANS PREPARED BY:

Kimley-Horn
and Associates, Inc.
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SHEET TITLE:

NORTH AND SOUTH
BUILDING ELEVATIONS

SHEET NUMBER:

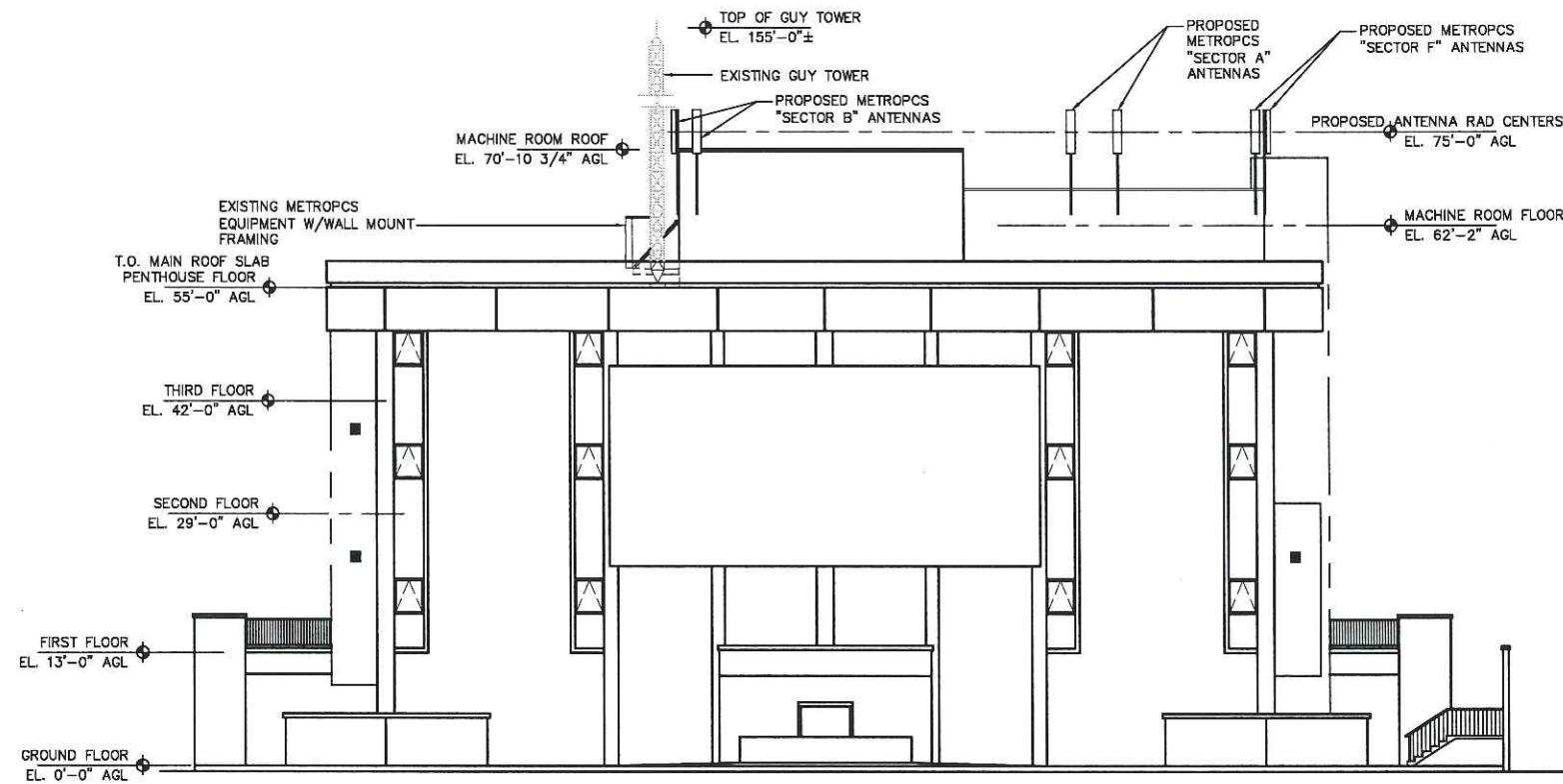
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REVISION:

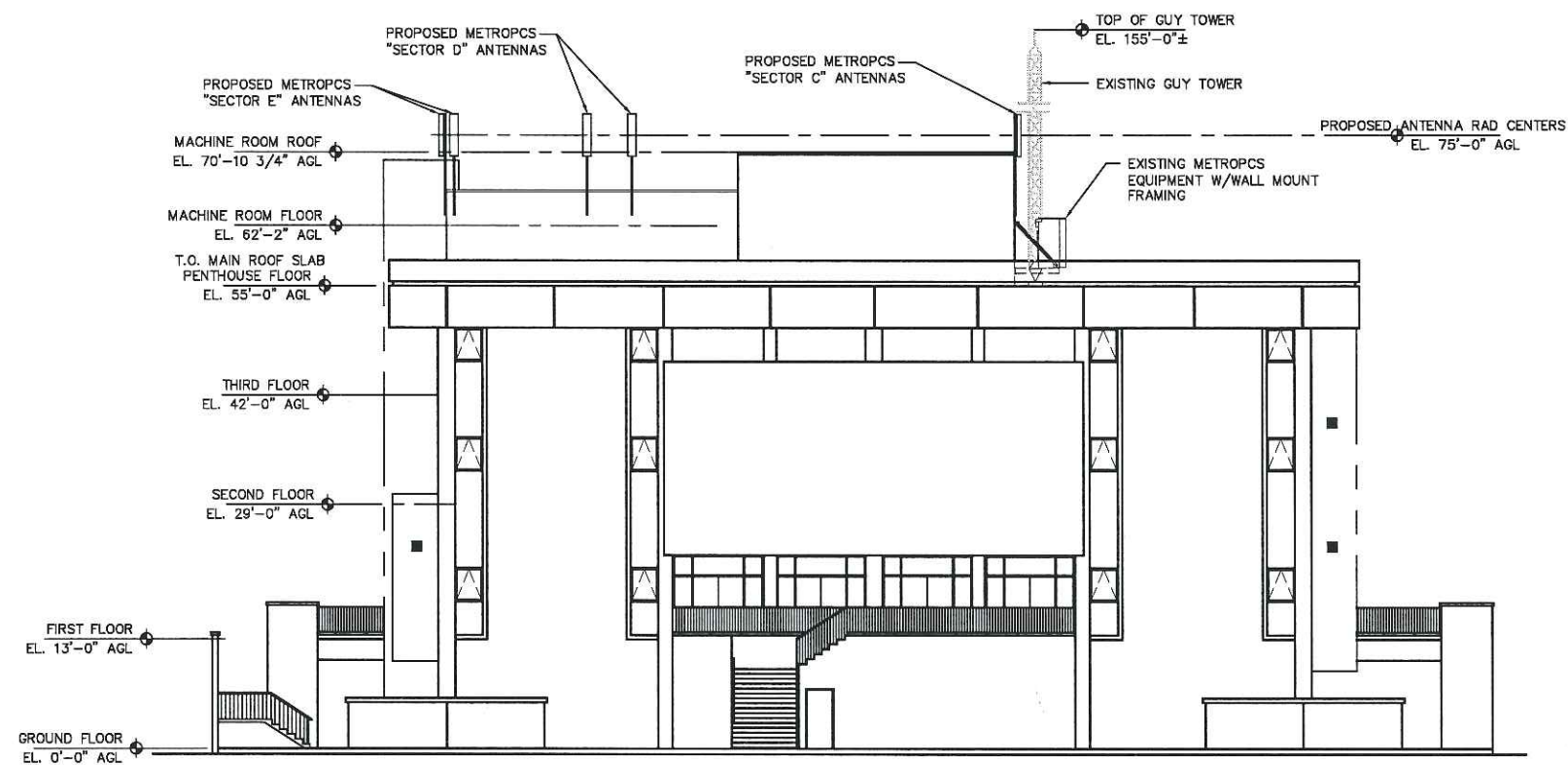
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KHA Job #:

041417163

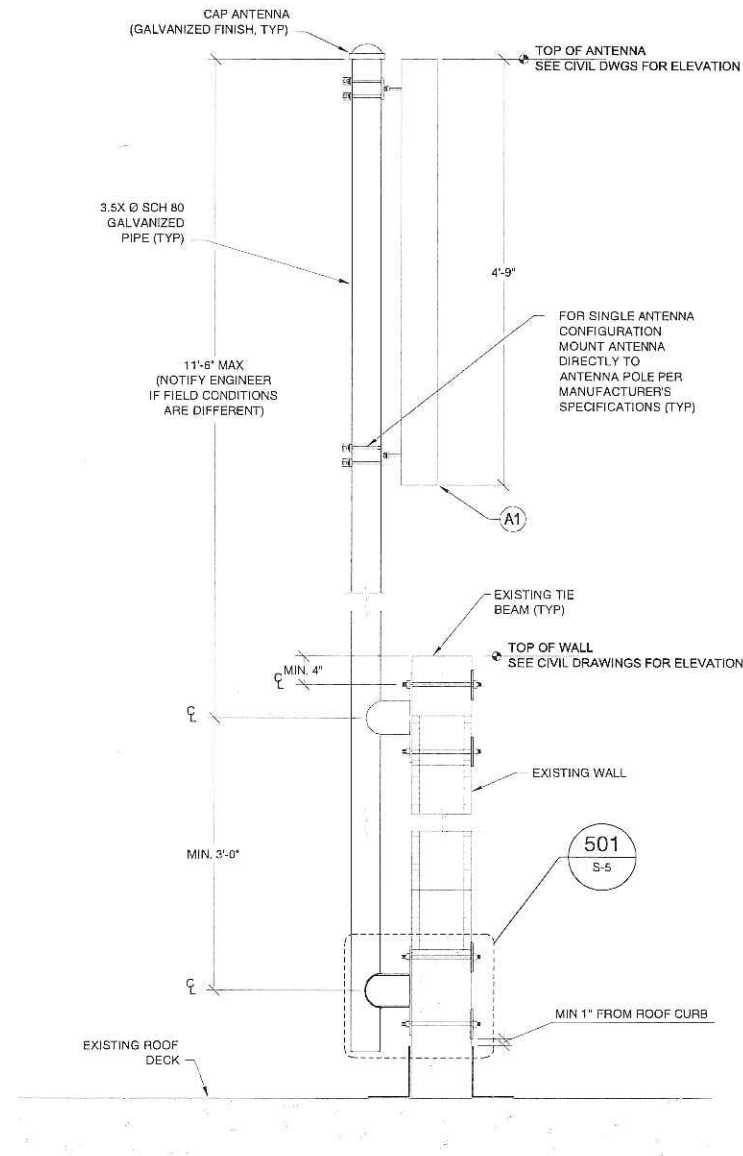


NORTH ELEVATION
N.T.S.

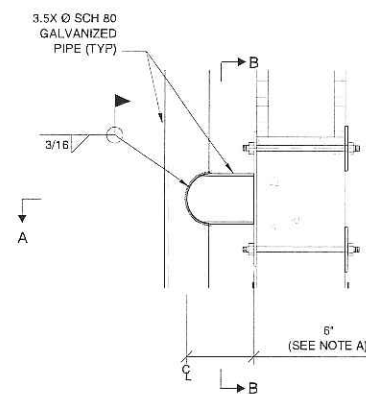


SOUTH ELEVATION
N.T.S.

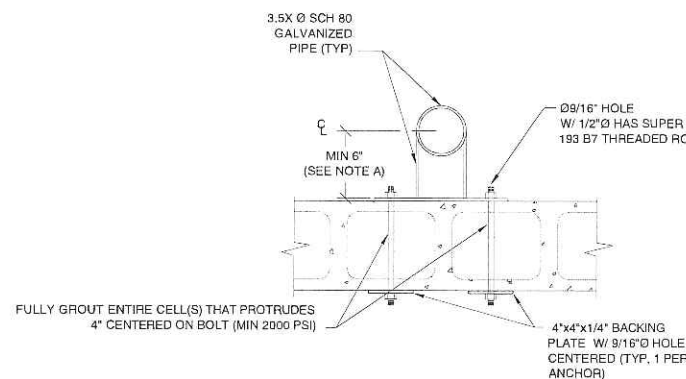
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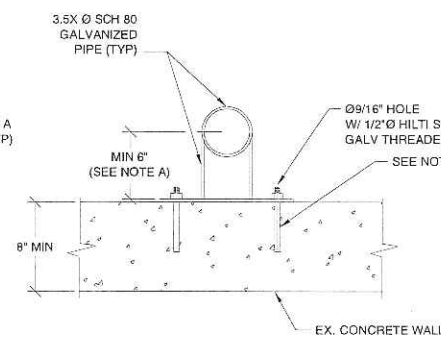
NEW ANTENNA MOUNT - ELEVATION
SCALE: NTS



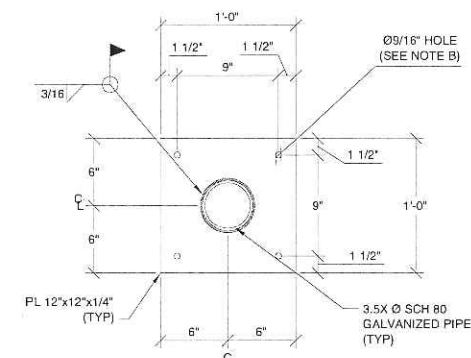
501 S-5 ANTENNA MOUNTING DETAIL
SCALE: NTS



SECTION A-A (FOR CMU WALL)
SCALE: NTS



SECTION A-A (FOR CONCRETE WALL)
SCALE: NTS



SECTION B-B (ANTENNA BASE PLATE DETAIL)
SCALE: NTS

NOTES:
A. EXTEND ARM AS NEEDED TO CLEAR PARAPET MOLDING (IF APPLICABLE, NOTIFY ENGINEER IF GREATER THAN 16")
B. FOR CONCRETE WALL INSTALL 1/2" HILTI HAS SUPER ASTM A 193 B7 GALV. STEEL ROD W/ HY-150 MAX EMBEDDED MIN 2 1/2" (SEE SECTION A-A FOR CONCRETE WALL DETAIL)
FOR MASONRY WALL INSTALL 1/2" HILTI HAS SUPER ASTM A 193 B7 THREADED ROD (SEE SECTION A-A FOR CMU WALL DETAIL)

GENERAL STRUCTURAL NOTES:

- DESIGN:
CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND ANY OTHER LOCAL OR REGIONAL GOVERNING CODES DURING CONSTRUCTION.
- WIND LOAD & FLOOD LOAD CRITERIA (ASCE 7-10):
STRUCTURAL FRAME:
BASIC WIND SPEED = 180 mph (3-SECOND GUST)
STRUCTURAL CATEGORY = IV
WIND EXPOSURE = C
MWFRS STRENGTH DESIGN FOR OTHER STRUCTURES (CH. 29)
- STRUCTURAL STEEL:
MATERIAL - ALL STEEL MEMBERS SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
PIPES SHALL CONFORM TO ASTM A53 GRADE B (Fy = 35ksi; Fu = 60ksi)
HSS SHALL CONFORM TO ASTM A500 GRADE B (Fy = 46ksi; Fu = 58ksi)
W SHAPES SHALL CONFORM WITH ASTM A992 (Fy=50ksi;Fu=65ksi)
CHANNELS AND ANGLES SHALL CONFORM WITH ASTM A36 (Fy=36ksi;Fu=58ksi)
PLATES SHALL CONFORM WITH ASTM A36 (Fy=36ksi;Fu=58ksi)
- CONNECTIONS:
DESIGN, FABRICATION, AND CONSTRUCTION SHALL CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
- WELDING:
SHALL BE DONE BY AN AWS CERTIFIED WELDER AND IN COMPLIANCE WITH AWS D1.1. ALL WELDS SIZES SHALL BE THE MAXIMUM ALLOWED BY THE MATERIAL BEING WELDED WITH E70XX ELECTRODE
- BOLTS:
A325-X (Fnt = 90 ksi, Fnv = 66 ksi) IN STANDARD HOLES, WITH WASHER.
A36 THREADED RODS IN STANDARD HOLES, WITH FLAT WASHER, LOCKING WASHER AND NUTS
- ANCHOR BOLTS:
SHALL CONFORM TO ASTM A325, (Fu = 105ksi UNLESS NOTED OTHERWISE)
- ALL COMPONENTS SHALL BE PROTECTED FROM WEATHER EFFECTS. USE HOT DIP GALVANIZED MATERIAL. TOUCH UP ALL FIELD WELDS AND ABRASED AREAS WITH TWO COATS OF ACCEPTABLE ZINC BASED PAINT. REPAIR OF ABRASED OR UNCOATED AREAS SHALL CONFORM TO ASTM A780-93A.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND SITE CONDITIONS PRIOR TO COMMENCEMENT OF THE WORK. CONTRACTOR SHALL ALSO VERIFY THE LOCATION OF THE PROPOSED IMPROVEMENTS PRIOR TO FABRICATION OF THE FRAME AND/OR INSTALLATION OF ANY EQUIPMENT. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- CONTRACTOR / STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION 14TH Ed.
- ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE.
- CONTRACTOR / STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES AS REQUIRED TO PREVENT RAINWATER INTRUSION.
- CONTRACTOR / STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION. AT THE CONTRACTOR'S OPTION, FIELD SPICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE ALL DETAILS FOR THE PROPOSED FIELD SPICES AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- AT THE CONTRACTOR'S OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS.
- SUBMIT ORIGINAL SHOP DRAWINGS, INCLUDING COMPLETE DETAILS, SCHEDULES OF FABRICATION AND ASSEMBLY, PROCEDURES, AND DIAGRAMS. INCLUDE DETAILS OF CUTS, CONNECTIONS, CAMBER, HOLE, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS A2.1 AND A2.4 SYMBOLS, AND SHOW SIZE, LENGTH, AND TYPE OF WELD. PROVIDE SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS AND OTHER ANCHORAGES TO BE INSTALLED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY AREAS OF THE SITE AT THE CONTRACTOR'S EXPENSE THAT ARE DISTURBED AS A RESULT OF THE WORK ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED IMPROVEMENTS
- THIS DESIGN IS BASED ON:
A COPY OF THE IPP UPGRADE PLANS AND ANTENNA CONFIGURATION PREPARED BY KHA ON 22 NOVEMBER 2013
SITE PHOTOGRAPHS PROVIDED BY KHA
- THE CONTRACTOR SHALL VERIFY PROPOSED LAYOUT AND IDENTIFY ANY POTENTIAL CONFLICTS BETWEEN THIS PROPOSED DESIGN AND FIELD CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY POTENTIAL CONFLICTS PRIOR TO BEGINNING CONSTRUCTION AS DESIGN MODIFICATIONS MAY BE NECESSARY AND MAY DELAY CONSTRUCTION SCHEDULE.
- CONTRACTOR SHALL REFERENCE THE CIVIL DRAWINGS FOR ALL PROPOSED ANTENNA LOCATIONS TO BE MODIFIED. THIS STRUCTURAL MODIFICATION IS REQUIRED FOR ANY NEW ANTENNA PROPOSED THIS SITE.

metroPCS
FLORIDA, LLC.

1000 SAWGRASS CORPORATE PARKWAY, SUITE 400
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PROJECT INFORMATION:

HOLLYWOOD CITY HALL

FL-801

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL, 33022
BROWARD COUNTY

CURRENT ISSUE DATE:

JANUARY 28, 2014

ISSUED FOR:

CONSTRUCTION DRAWINGS

REV.: DATE:

DESCRIPTION:

REV.	DATE	DESCRIPTION



JWME engineering, LLC

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2605 NW 34th TERRACE
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SHEET TITLE:

ANTENNA MOUNT
DESIGN & DETAIL

SHEET NUMBER:

REVISION:

S-1

PREPARED FOR:

Kirby-Horn
and Associates, Inc.

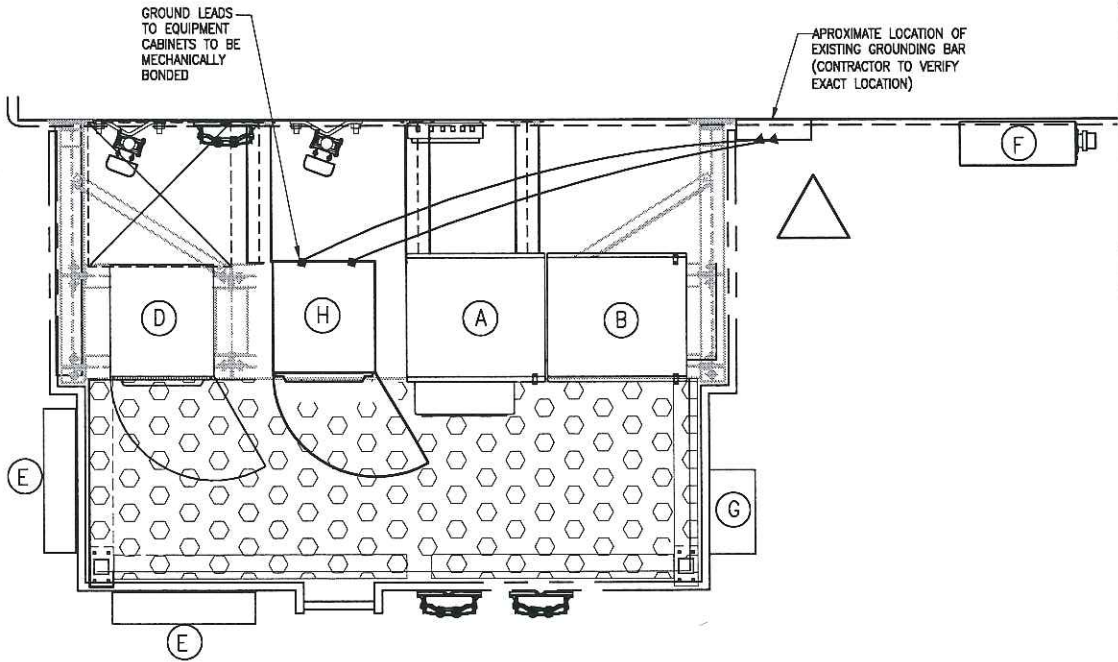
metroPCS
FLORIDA, LLC.

GENERAL NOTES:

1. ALL CONDUITS SHOWN ARE DIAGRAMMATICALLY DRAWN. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE ACTUAL INSTALLATION, MOUNTING HARDWARE, AND ROUTING WITH METROPCS CPM.

LEGEND

- | | |
|---|---|
| (A) EXISTING RADIO CABINET | (E) EXISTING (6) RADIO UNITS MOUNTED TO UTILITY RACK ON EXISTING HANDRAIL |
| (B) EXISTING BATTERY CABINET | (F) EXISTING PPC CABINET |
| (C) EXISTING LTE CABINET TO BE REMOVED | (G) EXISTING FIBER BOX |
| (D) EXISTING SMALL SSC CABINET TO BE ANCHORED TO EXISTING BEAM WITH 3/8" A325 ANCHOR BOLTS PER MANUFACTURER SPECIFICATIONS. | (H) PROPOSED SMALL SSC CABINET TO BE ANCHORED TO EXISTING BEAM WITH 1/2" A325 ANCHOR BOLTS PER MANUFACTURER SPECIFICATIONS. |



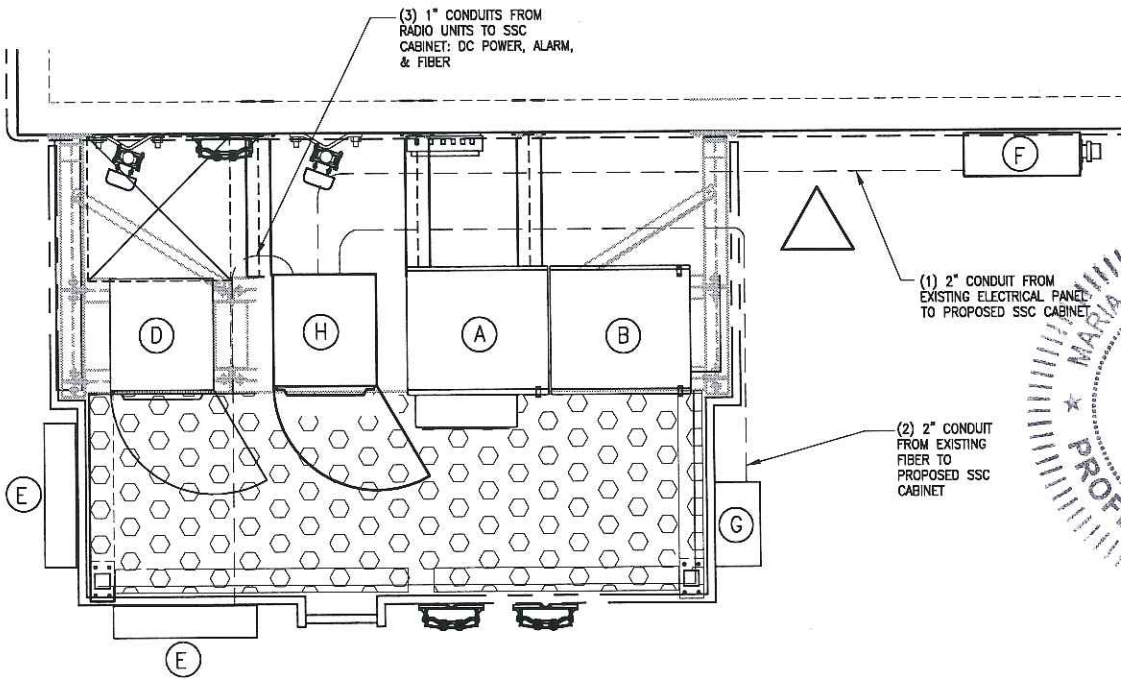
NOTE: ALL GROUND WIRES ARE TO BE #2 TINNED SOLID COPPER WIRE.

GROUNDING PLAN

NTS

LEGEND

- | | |
|---|---|
| (A) EXISTING RADIO CABINET | (E) EXISTING (6) RADIO UNITS MOUNTED TO UTILITY RACK ON EXISTING HANDRAIL |
| (B) EXISTING BATTERY CABINET | (F) EXISTING PPC CABINET |
| (C) EXISTING LTE CABINET TO BE REMOVED | (G) EXISTING FIBER BOX |
| (D) EXISTING SMALL SSC CABINET TO BE ANCHORED TO EXISTING BEAM WITH 3/8" A325 ANCHOR BOLTS PER MANUFACTURER SPECIFICATIONS. | (H) PROPOSED SMALL SSC CABINET TO BE ANCHORED TO EXISTING BEAM WITH 1/2" A325 ANCHOR BOLTS PER MANUFACTURER SPECIFICATIONS. |



NOTE: ALL PROPOSED CONDUITS ARE TO FOLLOW THE PATH OF EXISTING CONDUITS WHEN POSSIBLE.

ELECTRICAL PLAN

NTS

metroPCS
FLORIDA, LLC.

1000 SAWGRASS CORPORATE PARKWAY, SUITE 400
FT. LAUDERDALE, FL. 33323

PROJECT INFORMATION:

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HOLLYWOOD FL, 33020
BROWARD COUNTY

CURRENT ISSUE DATE:

DECEMBER 5, 2013

ISSUED FOR:

IPP UPGRADE

REV. DATE:

DESCRIPTION:

REV.	DATE	DESCRIPTION

PROFESSIONAL ENGINEER
MARTIN VICTORIA
No. 72397
STATE OF FLORIDA
JAN 0 2014

PLANS PREPARED BY:
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DRAWN BY: CHK.: APV.:

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LICENSURE:

LEO REPETTI PE 57573
MARIA MARTIN PE 72397

SHEET TITLE:

ELECTRICAL PLAN
& DETAILS

SHEET NUMBER: REVISION:

E-1 0

KHA Job #:

041417163

PANELBOARD A

WIRE SIZE	COND SIZE	BUS AMPS	LOAD	POLES	AMPS	BUS L1 L2	AMPS	POLES	LOAD	BUS AMPS	WIRE SIZE	COND SIZE
		67	RADIO CABINET	2	100	1 7	80	2	SPARE (OFF)			
		67				2 8						
3#2 1#8	2"	40	SSC CABINET	2	100	3 9	100	2	SSC CABINET	40	3#2 1#8	2"
		40				4 10				40		
			BLANK			5 11	30	2	SURGE	0		
		4	GFCI	1	20	6 12				0		

NOTE: INSTALL 2 POLE 100 AMP BREAKER IN POSITIONS 9&10 FOR SSC CABINET.

RATED VOLTAGE: <input checked="" type="checkbox"/> 120/240 <input type="checkbox"/> 1 PHASE, 3 WIRE	BRANCH POLES: <input checked="" type="checkbox"/> 12 <input type="checkbox"/> 18 <input type="checkbox"/> 30 <input type="checkbox"/> 40	APPROVED MF'RS. PER METRO PCS STD
RATED AMPS: <input type="checkbox"/> 100 <input checked="" type="checkbox"/> 200 <input type="checkbox"/> 400 <input type="checkbox"/>	CABINET: <input checked="" type="checkbox"/> PEDESTAL <input type="checkbox"/> FLUSH	NEMA <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 3R <input type="checkbox"/> 4X
<input type="checkbox"/> MAIN LUGS ONLY <input checked="" type="checkbox"/> MAIN AMPS <input type="checkbox"/> BREAKER <input type="checkbox"/> FUSED SWITCH	<input checked="" type="checkbox"/> HINGED DOOR	<input checked="" type="checkbox"/> KEYED DOOR LATCH
<input type="checkbox"/> FUSED <input checked="" type="checkbox"/> CIRCUIT BREAKER <input type="checkbox"/> BRANCH DEVICES	<input type="checkbox"/> TO BE GFCI BREAKERS	FULL NEUTRAL BUS
GROUND BUS		

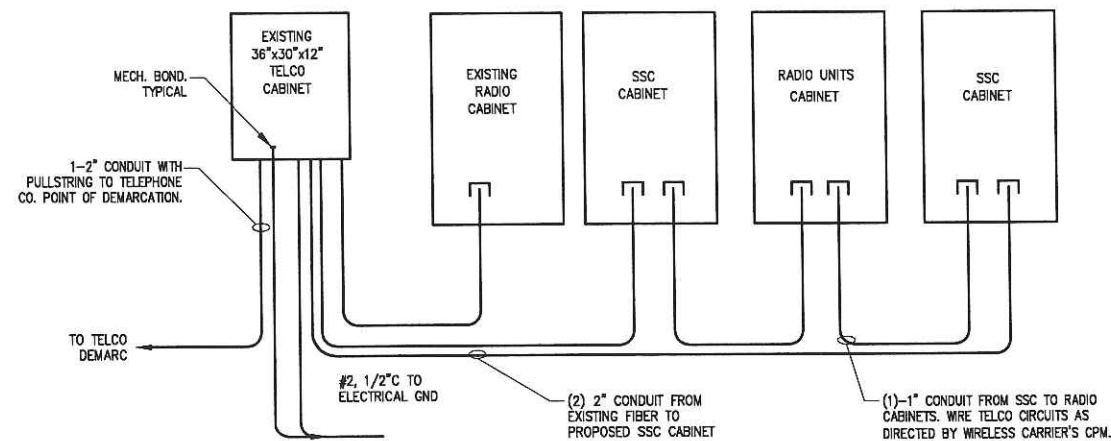
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT ISC OF 10,000 AMPS SYMMETRICAL.

PANEL SCHEDULE

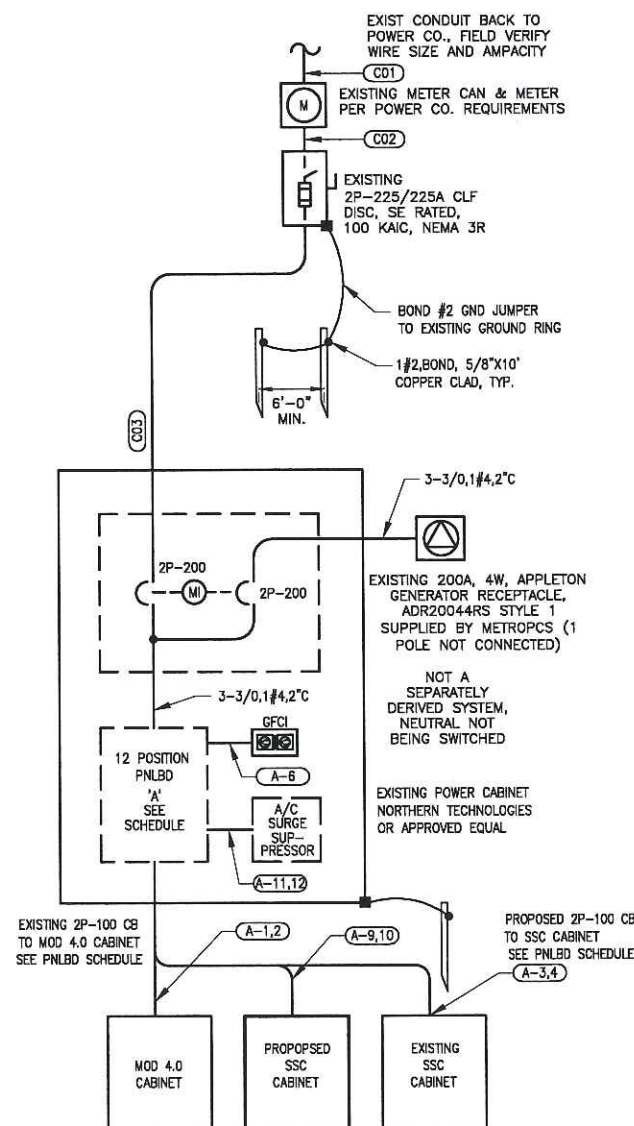
NOTE: CONTRACTOR TO VERIFY OPEN BREAKER POSITIONS AND ADJUST LOCATION OF NEW EQUIPMENT

ELECTRICAL NOTES

- GENERAL
 - THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR A COMPLETE SYSTEM SHALL BE INCLUDED.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS.
 - ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. APPROVED.
 - THE CONTRACTOR SHALL BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
 - EXACT LOCATION OF ALL EQUIPMENT SHALL BE COORDINATED WITH WIRELESS CARRIER, THE BUILDING OWNER AND OTHER TRADES.
 - WHERE EQUIPMENT IS SPECIFIED BY MANUFACTURER AND TYPE, SUBSTITUTION SHALL ONLY BE MADE WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT DETAILS OF PROPOSED MATERIALS, REASON FOR CHANGE AND CHANGE IN CONTRACT AMOUNT.
- SCOPE OF WORK
 - THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL WIRING AND EQUIPMENT UNLESS OTHERWISE INDICATED. MAIN COMPONENTS ARE AS FOLLOWS:
 - PROVIDE ELECTRICAL RACEWAYS & WIRING AS INDICATED ON THE DRAWINGS.
 - PROVIDE ELECTRICAL EQUIPMENT MOUNTED AS DIRECTED BY CARRIER AND AS INDICATED ON THE DRAWINGS.
 - PROVIDE TELEPHONE CONDUIT WITH PULL WIRE AND CABLE AS INDICATED ON DRAWINGS.
 - INSTALL WIRE AND CONDUIT AS INDICATED. PROVIDE CABLE SUPPORTS AS INDICATED.
 - PROVIDE GROUNDING PROTECTION SYSTEM AS INDICATED.
 - RESTORE ALL AREAS TO ORIGINAL CONDITION AFTER INSTALLATION OF CONDUIT.
 - CONTRACTOR SHALL CLEARLY LABEL DISCONNECTS AND OTHER RELATED GEAR.
 - AT TIME OF PLAN PERMITTING, CONTRACTOR SHALL APPLY FOR A THIRTY (30) DAY TEMPORARY POWER PERMIT FOR TESTING PURPOSES.
- CONDUIT
 - CONDUIT SIZES AS SHOWN ON THE DRAWINGS ARE A MINIMUM. THE CONTRACTOR MAY INCREASE AS REQUIRED FOR EASE OF PULLING.
 - CONDUIT TYPES SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:
 - ALL ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL.
 - ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC.
 - CONCEALED CONDUIT IN WALLS OR ABOVE CEILING SHALL BE EMT.
 - ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL. NYLON INSULATED BUSHINGS SHALL BE USED ON ALL CONDUIT TERMINATIONS.
 - FLEX CONDUIT SHALL BE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT.
 - CONDUIT ROUTES ARE SCHEMATIC. FIELD VERIFY ROUTE BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND BUILDING OWNER.
 - WEATHERPROOF HUBS SHALL BE USED FOR ALL TOP AND SIDE PENETRATIONS TO ENCLOSURE LOCATED OUTDOORS.
- CONDUCTORS
 - CONDUCTORS SHALL BE STRANDED COPPER TYPE THWN WITH 75 DEGREE C RISE INSULATION.
 - PULL BOXES AND JUNCTION BOXES
 - INTERIOR ENCL. SHALL BE NEMA 1. EXTERIOR ENCL. SHALL BE NEMA 3R.
- GROUNDING
 - PROVIDE GROUND SYSTEM AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE NATIONAL ELECTRIC CODE AND RADIO EQUIPMENT MANUFACTURER.
 - ALL RACEWAYS REQUIRE GROUNDING CONDUCTORS. BONDING CONDUCTORS THROUGH THE RACEWAY SYSTEM SHALL BE CONTINUOUS FROM MAIN SWITCH GROUND BUSES TO PANEL GROUND BARS, AND FROM PANEL GROUNDING BARS TO BRANCH CIRCUIT OUTLETS, MOTORS, LIGHTS, ETC. THESE GROUND CONDUCTORS ARE REQUIRED THROUGHOUT THE PROJECT REGARDLESS OF WHETHER CONDUIT RUNS SHOW GROUND CONDUCTORS ON THE DRAWINGS.



TELCO RISER DIAGRAM



ONE LINE DIAGRAM

240V LOAD CALC

LOAD	AMPS
RADIO CABINET	67
GFCI	4
SSC CABINET	40
SSC CABINET	40
TOTAL	151

EXIST VOLTAGE PROVIDED: 240V, 1 PHASE, 3W
EXIST SERVICE PROVIDED: 1C/A, 3/OCU, 200A

CONDUIT INSTALLATION NOTES

CONDUIT INSTALLATION NOTES:

- ALL CONDUIT RUNS AND EQUIPMENT LOCATIONS ARE SHOWN DIAGRAMMATICALLY CONTRACTOR TO FIELD COORDINATE WITH WIRELESS CARRIER BEFORE INSTALLATION.
- CONTRACTOR SHALL PROVIDE TRAFFIC RATED PULL BOXES WHERE REQUIRED.
- WHERE U.G. CONDUIT ROUTE IS UNDER EXIST SLAB CUT AND PATCH ASPHALT/CONCRETE AS REQUIRED, MATCH EXIST.
- CONTRACTOR SHALL COORDINATE ALL GROUNDING WITH METRO PCS CPM BEFORE INSTALLATION.
- ALL EXPOSED GROUNDING CONDUCTORS SHALL BE IN A 1/2" PVC SCHEDULE 80 CONDUIT.
- ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL.

ABBREVIATIONS

ANT	ANTENNA	EMT	ELECTRICAL METALLIC TUBING
AWG	AMERICAN WIRE GAUGE	DWG	DRAWING
BCW	BARE COPPER WIRE	LPS	LIGHTNING PROTECTION SYSTEM
RWY	RACEWAY	S.S.	STAINLESS STEEL
TYP.	TYPICAL	PNL	PANEL
RGS	RIGID GALVANIZED STEEL	CLF	CURRENT LIMITING FUSE
		CPM	CONST. PROJ. MANAGER

SYMBOLS

▼	CADWELD TYPE CONNECTION	(C01)	CONDUIT TAG 1; REFER TO RISER
⊕	5/8" X10'-0" COPPERCLAD GRND. ROD W/INSP. SLEEVE	(M-1.3)	CONDUIT TAG 1; PANEL SCHEDULE
○	5/8" X10'-0" COPPERCLAD GRND. ROD	⊕	GENERATOR RECEPTACLE
■	MECHANICAL TYPE CONNECTION		
---	#2 TINNED SOLID BARE CU WIRE		
---	UNDER GROUND TELCO CONDUIT		
---	UNDER GROUND ELECTRIC CONDUIT		

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1000 SAWGRASS CORPORATE PARKWAY, SUITE 400
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HOLLYWOOD FL, 33020
BROWARD COUNTY

CURRENT ISSUE DATE:

DECEMBER 5, 2013

ISSUED FOR:

IPP UPGRADE

REV.: DATE: DESCRIPTION:

REV.	DATE	DESCRIPTION

SEAL
MARIA VICTORIA MARTIN
LICENSE
No. 72397
STATE OF
JAN 1 2014

PLANS PREPARED BY:

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and Associates, Inc.
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DRAWN BY: CHK.: APV.:

RWM	LF	LR
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LICENSURE:

LEO REPETTI MARIA MARTIN	PE 57573 PE 72397
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SHEET TITLE:

ELECTRICAL NOTES
& DETAILS

SHEET NUMBER: REVISION:

E-2 0

KHA Job #:

041417163

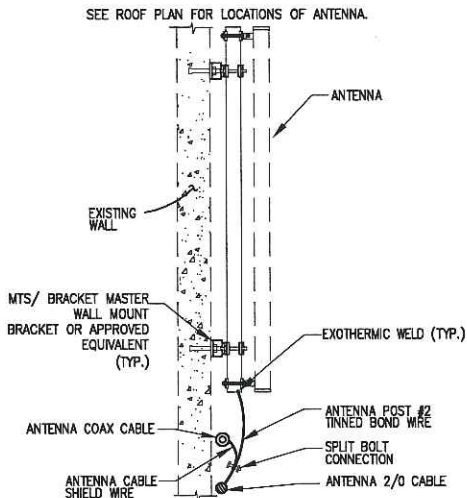
GROUNDING PROTECTION SYSTEM NOTES:

1. PROVIDE "CABLE ENTRANCE GROUND BAR" (CEGB), 3"H X 6"L X 1/4"D. MOUNT AT TELCO CABINET. COORD. INSTALLATION WITH CPM.
2. PROVIDE A GRND RING BURIED A MINIMUM OF 18" BELOW GRADE. THE GROUND RING SHALL BE PROVIDED ON CO-LOCATE AND GROUND SITES. ON BUILDINGS THE CONTRACTOR SHALL BOND THE METROPCS GROUND TO THE EXISTING BUILDING GROUND.
3. (FOR GROUND SITES, NOT AT ROOFTOPS) BOND FENCE POST TO GROUNDING BURIED RING USING AN EXOTHERMIC WELD. BOND FENCE GATE TO POST WITH A FLEXIBLE COPPER JUMPER STRAP MECHANICALLY OR EXOTHERMICALLY. TYPICAL FOR ALL FENCE PLANES WITHIN 12 FEET OF TOWER FOUNDATION. FOR FENCE PLANES BEYOND 12', EXTEND 1/2" TO EACH FENCE PLANE TO ANY PLANES WITHIN 50'.
4. BOND DISCONNECT SWITCH, METER, TELEPHONE CABINET AND SERVICE CONDUITS TO BURIED GRND RING AS THEY CROSS.
5. EACH LEG OF THE WAVEGUIDE STRUCTURE SHALL BE INDIVIDUALLY BONDED TO THE BURIED GRND RING. EXOTHERMICALLY WELD CONNECTIONS AT POST FOR WAVEGUIDE STRUCTURE AND BURIED GRND RING. PLACE 5/8"x10" COPPERCLAD GRND ROD AT 10' INTERVALS ALONG WAVEGUIDE PATH. (APPLIES TO GROUND SITES ONLY)
6. BOND REBAR IN CONCRETE FOR COMMUNICATION STRUCTURE AND EQUIPMENT PAD TO BURIED GRND RING. EXOTHERMICALLY WELD A #2 TINNED SOLID COPPER CONDUCTOR TO THE REBAR AND CONNECT TO THE BURIED GRND RING.
7. PROVIDE INSPECTION SLEEVE AT MAIN SERVICE GROUNDS. EXOTHERMIC CONNECTIONS.
8. PROVIDE BONDING CONDUCTOR(S) FROM THE GROUNDING RING TO THE ANTENNA CABLE BUS BAR AT POINT JUST INSIDE OF THE COMMUNICATION STRUCTURE EXIT. VERIFY EXACT LOCATION OF COPPER BUS BAR FOR PROPER CONDUCTOR LENGTH. FINAL EXOTHERMIC WELDS TO COPPER BUS BAR BY THE ANTENNA CABLE INSTALLER.
9. EXOTHERMICALLY WELD BONDING CONDUCTOR TO COMMUNICATION STRUCTURE LEG AT 1'-0" ABOVE PAD AND BOND TO BURIED GRND RING. PROVIDE A 3/4" PVC SLEEVE WITH A GRADUAL BEND IN THE CONCRETE FOUNDATION.
10. 5/8"x10'-0" LONG COPPER CLAD GRND ROD. 15' SPACING BETWEEN RODS (NON-LINEAR), TYPICAL FOR ALL GRND RODS SHOWN. USE STAINLESS STEEL HARDWARE WHERE APPLICABLE.
11. ELECTRICAL CONTRACTOR SHALL TAKE MEGGER READINGS OF GRND. THE RESULTS SHALL NOT BE GREATER THAN 5 OHMS.
12. ALL CONNECTIONS TO GRND SYSTEM SHALL BE MADE IN LINE WITH BENDS NOMINAL 12" RADIUS IN THE DIRECTION OF CURRENT FLOW. T-CONNECTIONS WILL NOT BE ALLOWED.
13. ALL BENDS IN GRND WIRES SHALL BE NOMINAL 12" RADIUS.
14. ANTENNA CABLES SHALL BE BONDED AT EACH END. RUNS GREATER THAN 150' SHALL BE BONDED TOWARDS MIDDLE OF LENGTH. COORDINATE LOCATION WITH WIRELESS CARRIER'S PROJECT MANAGER.
15. WHEN APPLICABLE, CONTRACTOR SHALL BOND FRAMES TO EACH OTHER AND TO GRND RING VIA TWO PATHS. COORDINATE WITH WIRELESS CARRIER PROJECT MANAGER.
16. CONTRACTOR CAN PROVIDE ONE OF THE FOLLOWING AS DIRECTED BY THE PROJECT MANAGER: THE SECOND OPTION IS PREFERRED.
 - A. CADWELD EACH CABINET GRND WIRE TO GRND RING AS SHOWN IN EQUIPMENT GRND DETAIL.
 - B. CADWELD EACH WIRE TO A 1/4"x4"x12" MIN. COPPER BUS BAR LOCATED BEHIND RADIO CABINET. EXTEND A #2 WIRE FROM EACH END OF COPPER BUS BAR TO GRND RING.
17. PROVIDED BRAIDED BONDING JUMPERS BETWEEN EACH GATE AND POST (OPTIONAL).
18. CONTRACTOR SHALL PROVIDE EXOTHERMIC BONDING AT ALL BURIED GROUND RING CONNECTIONS, STRUCTURAL EQUIPMENT FRAME, SERVICE RACK(S), EXISTING TOWER GROUND RINGS, AND AS INSTRUCTED BY METROPCS CPM.
19. CONTRACTOR SHALL PROVIDE MECHANICAL BONDING AT ALL ANTENNA SECTOR GROUND BARS, ALL ELECTRICAL EQUIPMENT DISCONNECTS, TRANSFORMERS, J-BOXES, PANEL-BOARDS, CABINETS, AND MAIN GROUND BAR AS DIRECTED BY METROPCS CPM. ALL MECHANICAL CONNECTIONS SHALL BE PROPERLY TERMINATED WITH LUGS, NUTS AND BOLTS.
20. CONTRACTOR SHALL COAT WITH NOX-OX ALL POINTS OF CONTACT BETWEEN DISSIMILAR METALS.

GROUNDING NOTES

NTS

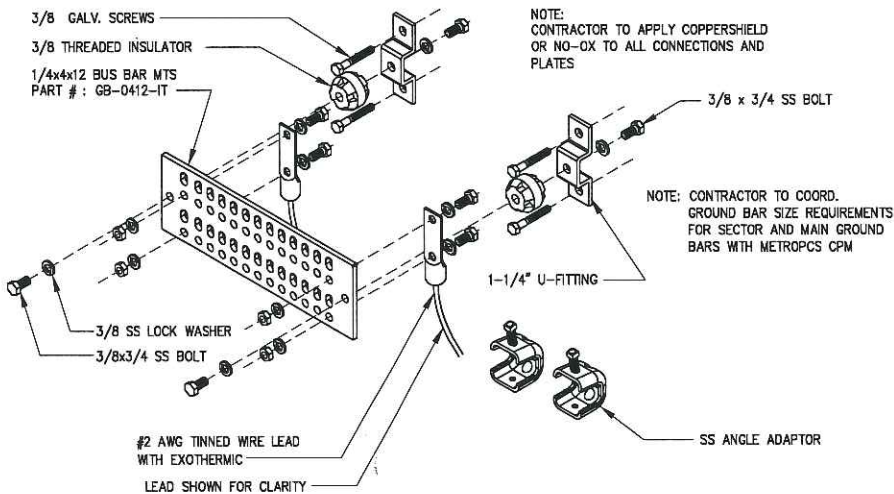
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ANTENNA GROUNDING

NTS

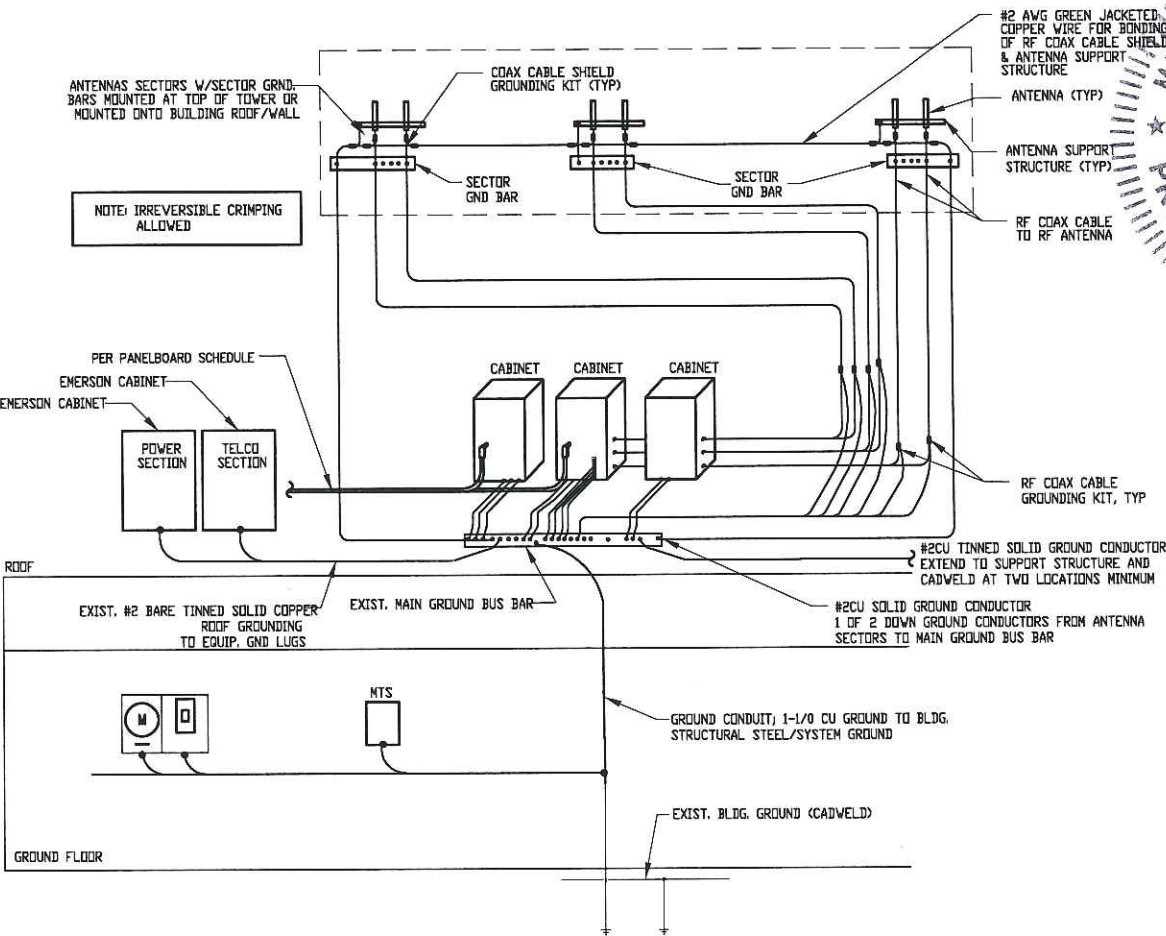
2



TYPICAL GROUND BAR DETAIL

NTS

3



GROUNDING RISER DIAGRAM

NTS

4

metroPCS
FLORIDA, LLC.

1000 SAWGRASS CORPORATE PARKWAY, SUITE 400
FT. LAUDERDALE, FL. 33323

PROJECT INFORMATION:

HOLLYWOOD CITY HALL

FL-801, 6FB1440M

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL, 33020
BROWARD COUNTY

CURRENT ISSUE DATE:

DECEMBER 5, 2013

ISSUED FOR:

IPP UPGRADE

REV. DATE:

DESCRIPTION:

SEAL:

MARIA VICTORIA MARTIN
LICENSE
No. 72397
STATE OF
PLANS PREPARED BY:
KIMLEY-HORN
and Associates, Inc.
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RWM

LF

LR

LICENSURE:

LEO REPETTI
MARIA MARTIN

PE 57573
PE 72397

SHEET TITLE:

ELECTRICAL RISER

SHEET NUMBER:

REVISION:

E-3

0

KHA Job #:

041417163

Drawing name: K:\WPB_Civil\CELL SITES\MetroPCS\041417163 IPP Upgrade\FL-801\cad\E-3.dwg E-3 Jan 30, 2014 10:37am by: Larry Flowers

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