

NODE ID: FL6426BA

PROJECT NO: 48862073

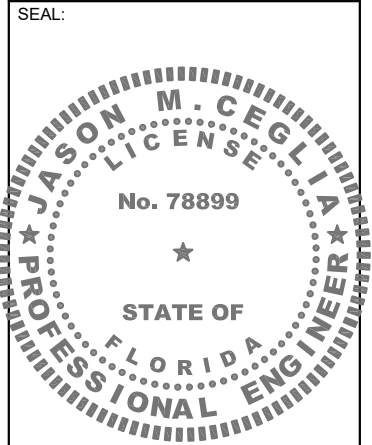
NODE SCU: 467074

**NEAR ADDRESS: 6528 COLLINS AVENUE
MIAMI BEACH, FL 33144**

LATITUDE: 25.848639 LONGITUDE: -80.120341

CLIENT:
CROWN CASTLE
 3470 NW 82nd AVENUE
 10th FLOOR
 DORAL, FL 33122

PROJECT:
SITE ID: FL6426BA
 SCU: 467074
 6528 COLLINS AVENUE
 MIAMI BEACH, FL 33144
 MIAMI-DADE COUNTY



CONSULTANT:
Stantec
 800 Fairway Drive, Suite 195,
 Deerfield Beach, FL 33441
 Tel: 954.577.4655
 www.stantec.com

REV	DATE	DESCRIPTION
A	06/19/25	PRELIM CDs
0	06/30/25	ISSUED FOR PERMIT

SHEET TITLE:
COVER SHEET

PROJECT NUMBER:
 280570003

DRAWN BY: SD	CHECKED BY: RL
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APPROVED BY: SBC	DATE: 06/17/25
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ISSUE No.: 0	SHEET NUMBER: T-1
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SITE INFORMATION

POLE OWNER: CROWN CASTLE FIBER LLC
 3470 NW 82nd AVENUE,
 10th FLOOR,
 DORAL, FL 33122

ROW JURISDICTION(S): FDOT & CITY OF MIAMI BEACH

ELECTRICAL JURISDICTION: CITY OF MIAMI BEACH

NEAR PARCEL ID: 02-3211-007-1690

UTILITY COMPANY: FLORIDA POWER & LIGHT
 700 UNIVERSITY BOULEVARD
 JUNO BEACH, FL 33408

STRUCTURE TYPE: WOOD METAL CONCRETE STEALTH

APPLICANT INFORMATION

APPLICANT: CROWN CASTLE FIBER LLC
 3470 NW 82nd AVENUE
 10th FLOOR
 DORAL, FL 33122

PROJECT MANAGER: RASHONDA HACKSHAW
 9250 WEST FLAGLER STREET
 5th FLOOR
 MIAMI, FL 33174
 (786) 610-7045

SCOPE OF WORK

1. INSTALLATION OF (1) INTEGRATED STEALTH POLE
2. INSTALLATION OF (1) OMNI ANTENNA
3. INSTALLATION OF (2) GROUNDING RODS WITH INSPECTION SLEEVES
4. INSTALLATION OF (3) UTILITY COMPANY HANDHOLE
5. INSTALLATION OF (2) CROWN CASTLE HANDHOLE
6. INSTALLATION OF 294'± OF DIRECTIONAL BORE
7. INSTALLATION OF 58'± OF OPEN-CUT TRENCH

INDEX OF DRAWINGS

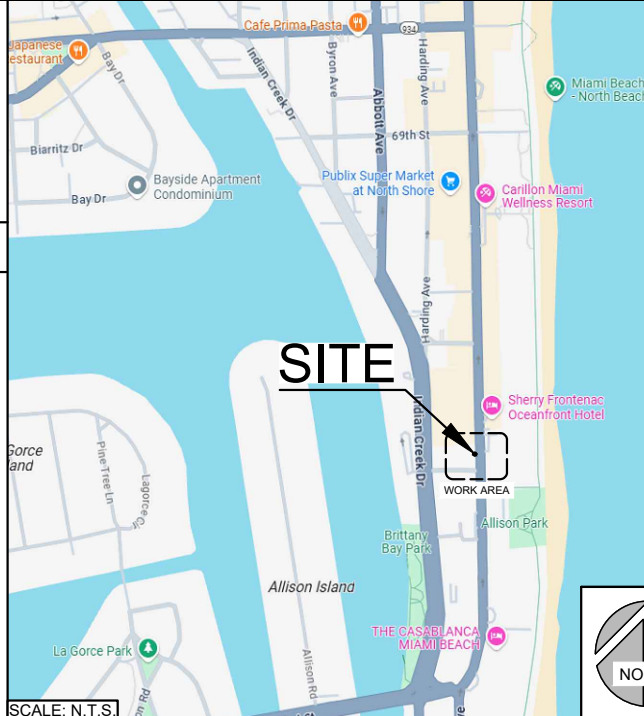
SHEET	DESCRIPTION	REV
T-1	COVER SHEET	0
T-2	UTILITY CONTACTS AND PROJECT SCHEDULE	0
T-3	NOTES	0
T-4	NOTES	0
T-5	NOTES	0
C-1	SITE PLAN	0
C-2.0	ENLARGED PLANS	0
C-2.1	ENLARGED PLANS	0
C-3	POLE ELEVATION AND DETAILS	0
C-4.0	EXISTING UTILITIES AND UNDERGROUND PLANS (POWER RUN)	0
C-4.1	EXISTING UTILITIES AND UNDERGROUND PLANS (POWER RUN)	0
C-4.2	EXISTING UTILITIES AND UNDERGROUND PLANS (FIBER RUN)	0
C-5	ANTENNA AND EQUIPMENT DETAILS	0
C-6	CONSTRUCTION DETAILS	0
C-7	DETAILS	0
E-1	POWER ROUTING PLAN	0
E-2	ELECTRICAL DETAILS	0
E-3	ELECTRICAL EQUIPMENT AND ATTACHMENT DETAILS	0
E-4	GROUNDING DETAILS	0
E-5	ELECTRICAL NOTES	0
E-6	ELECTRICAL NOTES	0

CODE COMPLIANCE

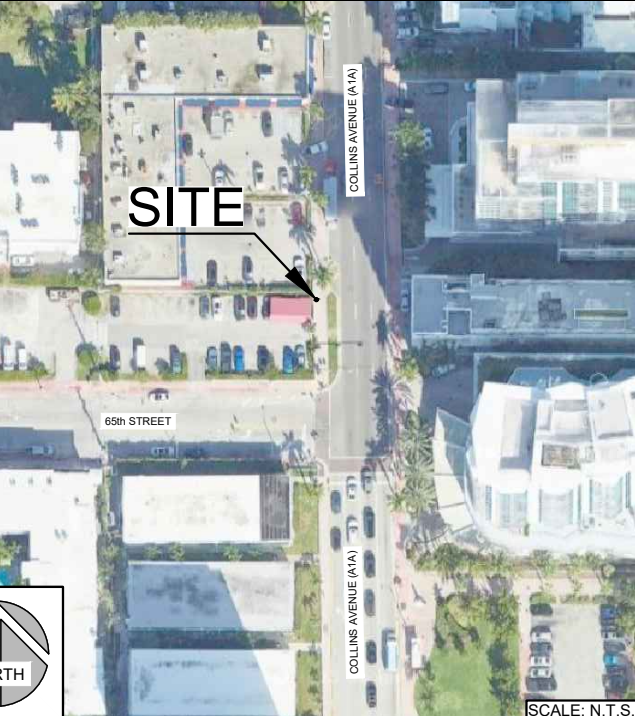
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 8TH EDITION, 2023 FLORIDA BUILDING CODE	4. LIFE SAFETY CODE NFPA-101-2021
5. 8TH EDITION, FLORIDA FIRE PREVENTION CODE 2023	6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (AISC)
2. NATIONAL ELECTRIC CODE (NEC) WITH LOCAL AMENDMENTS LATEST ED.	7. UNDERWRITERS LABORATORIES (U.L.) APPROVED ELECTRICAL PRODUCTS
3. ANSITIA/EIA APPLICABLE STANDARDS	8. LOCAL BUILDING CODE
	9. CITY/COUNTY ORDINANCES

VICINITY MAP



LOCAL MAP



ENGINEERING

PROFESSIONALS OF RECORD:

ROBERT JERRY LARA
 REGISTERED ARCHITECT
 FL LIC. # 92824
 STANTEC
 PHONE: (954) 577-4663
 robert.lara@stantec.com

JASON M. CEGLIA
 REGISTERED PROFESSIONAL ENGINEER
 FL LIC. # 78899
 STANTEC
 PHONE: (954) 577-4672
 jason.ceglia@stantec.com



CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AND PLAN DIMENSIONS PRIOR TO CONDUCTING UNDERGROUND WORK. CONTRACTOR SHALL NOTIFY EOR IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THIS INSTALLATION.

NOTES:

- ALL PROPOSED WORK TO BE PERFORMED PER LATEST CROWN CASTLE STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
- CONTRACTOR MUST PROTECT ALL STORM SEWER SYSTEMS AS REQUIRED. FIELD VERIFICATION FOR LOCATION AND DEPTH OF EXISTING STORM SEWER SYSTEMS IS REQUIRED TO AVOID THE PENETRATION AND CROSS THRU OF ANY EXISTING STORM SEWER SYSTEM.
- CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION AND ASSURE COMPLIANCE WITH ADA REQUIREMENTS. UNDERGROUND UTILITIES HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO IDENTIFY, LOCATE AND PROTECT EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.
- CONTRACTOR TO FIELD ADJUST ACTUAL LOCATION OF THE PROPOSED WORK TO MEET THE MINIMUM SEPARATION REQUIREMENTS.
- ALL DAMAGED SIDEWALKS SHALL BE REPLACED. REPLACE COMPLETE CONCRETE FLAGS, FROM JOINT TO JOINT. NO PATCHING IS PERMITTED. SIDEWALKS TO BE INSTALLED IN COMPLIANCE WITH PUBLIC WORKS MANUAL.
- EXISTING SIDEWALK IMMEDIATELY ADJACENT TO THE AFFECTED SIDEWALK(S) MUST BE ADA COMPLIANT, OTHERWISE FULL REPLACEMENT IS REQUIRED.
- MINIMUM SIDEWALK CLEAR PEDESTRIAN ACCESS ROUTE (PAR) IS 48" WIDE.
- ALL LIDS SURFACES ON THE SIDEWALK MUST BE FLUSH AND ADA COMPLIANT.

LEGEND

- | | |
|-------------------------------|----------------------------------|
| — RW — (E) RIGHT-OF-WAY | — U/E — (E) UNDERGROUND ELECTRIC |
| — EOP — (E) EDGE OF PAVEMENT | — ACP — (P) AC POWER |
| — X — (E) EXISTING FENCE | — DCP — (P) DC POWER |
| — CL — (E) CENTERLINE OF ROAD | — UGF — (P) UNDERGROUND (FIBER) |
| — FOC — (E) FIBER OPTIC | — UGP — (P) UNDERGROUND (POWER) |
| — GAS — (E) GAS | — G — (P) GROUND |
| — STORM — (E) STORM SEWER | — CATV — (E) CABLE TV |
| — T — (E) TELEPHONE | ⊗ (E) VALVE |
| — TRF — (E) TRAFFIC | ⊕ (E) HYDRANT |
| — SAN — (E) SANITARY SEWER | ○ (E) MANHOLE |
| — W — (E) WATER | ⊞ (E) STORM SEWER INLET |
| — SL — (E) STREET LIGHT | |
| — OHE — (E) OVERHEAD ELECTRIC | |

POSTED SPEED LIMIT:
COLLINS AVENUE - 30MPH
65th STREET - 30MPH

ANY DAMAGE DURING WORK SHALL BE FULLY RESTORED OR REPLACED PER THE 2024-25 FDOT INDEXES LISTED BELOW BY CONTRACTOR

INDEX	DESCRIPTION
102-615	MULTILANE ROADWAY
102-660	SIDEWALK CLOSURE
102-661	BICYCLE FACILITY CLOSURES
110-100	TREE PROTECTION AND PRESERVATION
350-001	CONCRETE PAVEMENT JOINTS
520-001	CURB & GUTTER
522-001	CONC. SIDEWALK
522-020	TRAFFIC SEPARATORS
522-002	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS
522-003	CONC. FLARED DRIVEWAYS
570-001	PERMANENT EROSION CONTROL
630-001	CONDUIT INSTALLATION DETAILS
635-001	HANDHOLE & PULL BOXES
700-101	TYPICAL SECTIONS FOR PLACEMENT OF SINGLE AND MULTI-COLUMN SIGNS

CLIENT:

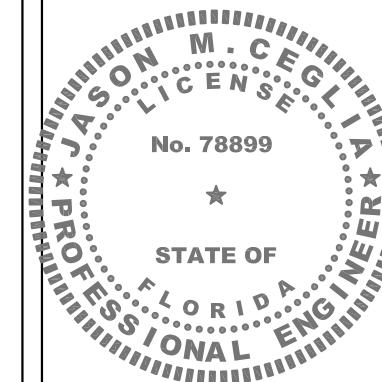


3470 NW 82nd AVENUE
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PROJECT:

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MIAMI-DADE COUNTY

SEAL:



CONSULTANT:



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REV	DATE	DESCRIPTION
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SHEET TITLE:

SITE PLAN

PROJECT NUMBER:
280570003

DRAWN BY: SD	CHECKED BY: RL
APPROVED BY: SBC	DATE: 06/17/25
ISSUE No.:	SHEET NUMBER:

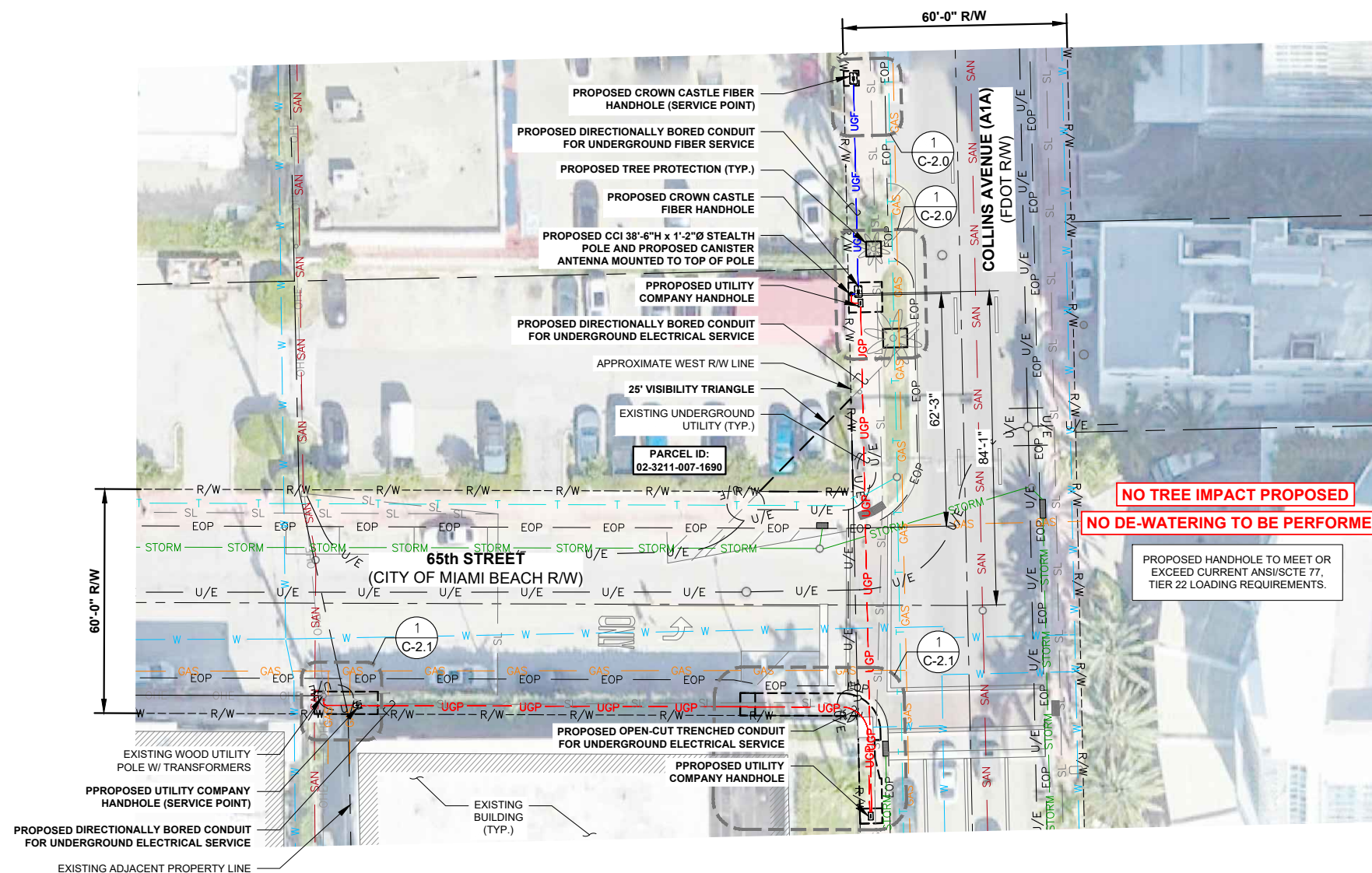
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C-1

TRUE NORTH

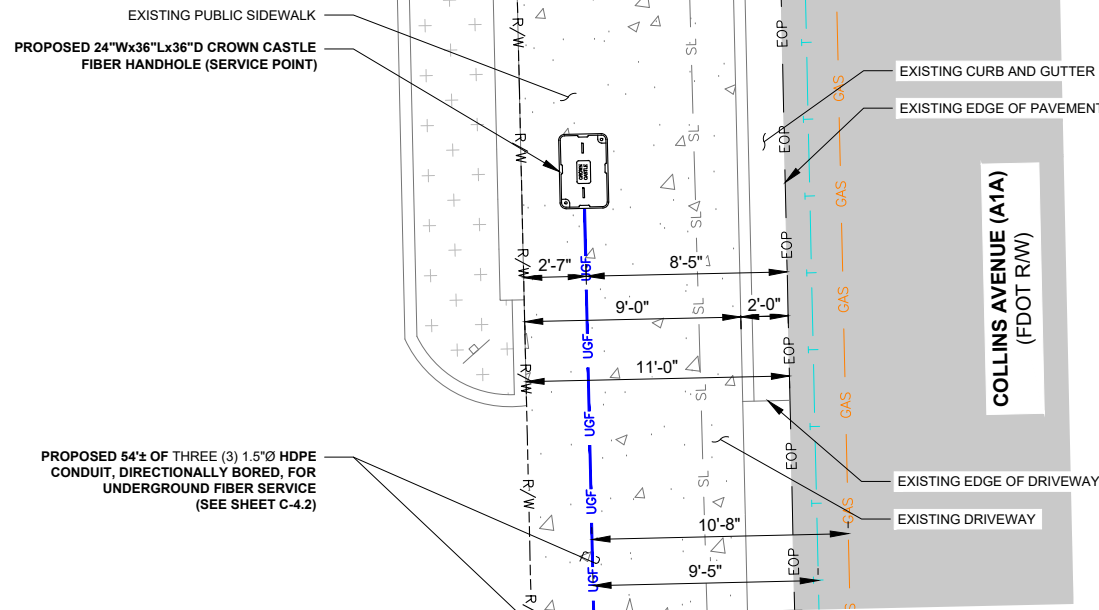


SITE PLAN 1



NOTES:

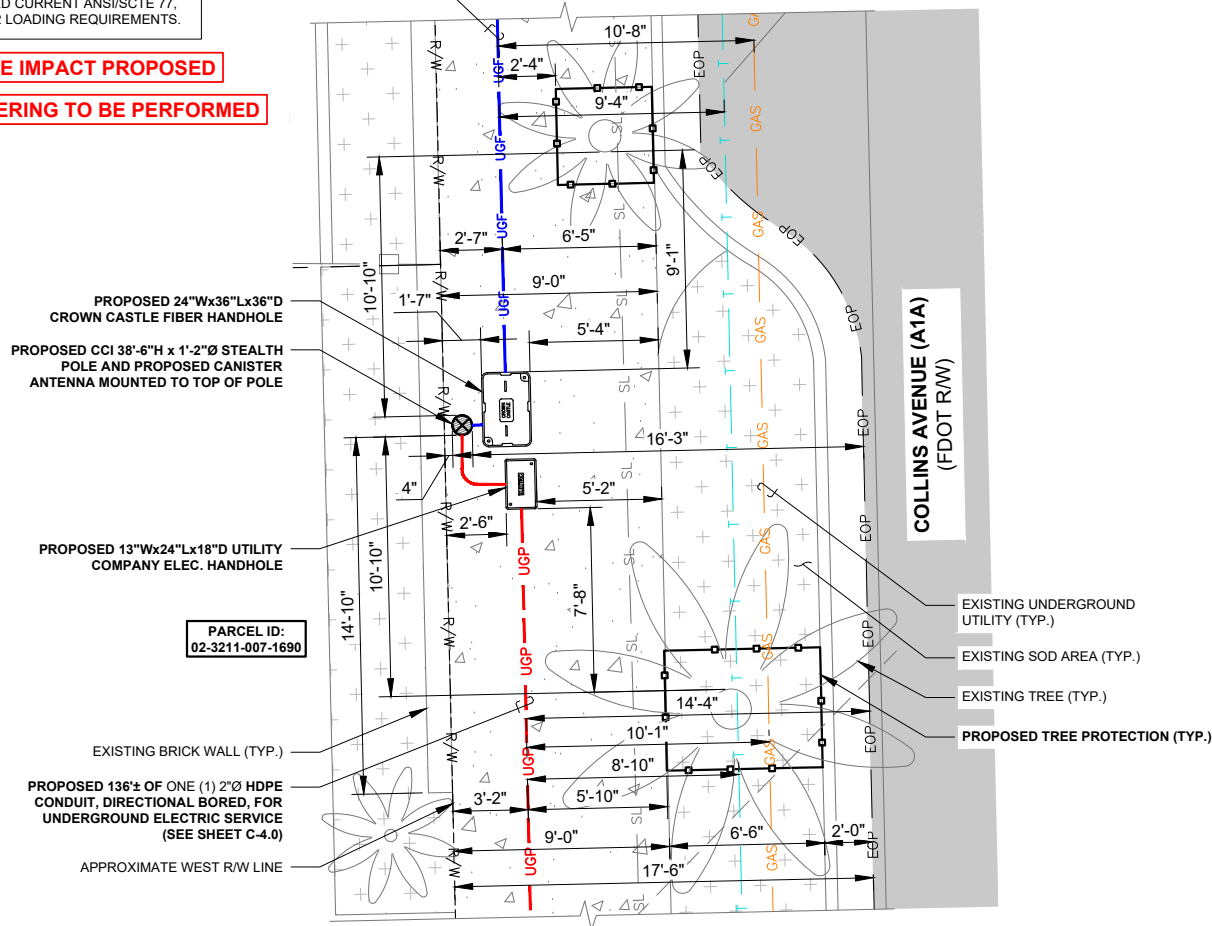
1. ALL PROPOSED WORK TO BE PERFORMED PER LATEST CROWN CASTLE STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED.
3. CONTRACTOR MUST PROTECT ALL STORM SEWER SYSTEMS AS REQUIRED. FIELD VERIFICATION FOR LOCATION AND DEPTH OF EXISTING STORM SEWER SYSTEMS IS REQUIRED TO AVOID THE PENETRATION AND CROSS THRU OF ANY EXISTING STORM SEWER SYSTEM.
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5. UNDERGROUND UTILITIES HAVE NOT BEEN FIELD LOCATED. CONTRACTOR TO IDENTIFY, LOCATE AND PROTECT EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.
6. TRAFFIC SIGNALS AND SIGNS DIVISION (TSS) COORDINATION IS REQUIRED.
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9. MINIMUM SIDEWALK CLEAR PEDESTRIAN ACCESS ROUTE (PAR) IS 48" WIDE.
10. ALL LIDS SURFACES ON THE SIDEWALK MUST BE FLUSH AND ADA COMPLIANT.



PROPOSED 54"± OF THREE (3) 1.5"Ø HDPE CONDUIT, DIRECTIONALLY BORED, FOR UNDERGROUND FIBER SERVICE (SEE SHEET C-4.2)

NO TREE IMPACT PROPOSED

NO DE-WATERING TO BE PERFORMED



PARCEL ID:
02-3211-007-1690



LEGEND

— RW — (E) RIGHT-OF-WAY	— UG — (E) UNDERGROUND ELECTRIC
— EOP — (E) EDGE OF PAVEMENT	— AC-P — (P) AC POWER
— X — (E) EXISTING FENCE	— DC-P — (P) DC POWER
— CL — (E) CENTERLINE OF ROAD	— UGF — (P) UNDERGROUND (FIBER)
— FOC — (E) FIBER OPTIC	— UGP — (P) UNDERGROUND (POWER)
— GAS — (E) GAS	— G — (P) GROUND
— STORM — (E) STORM SEWER	— CATV — (E) CABLE TV
— T — (E) TELEPHONE	— V — (E) VALVE
— TRF — (E) TRAFFIC	— H — (E) HYDRANT
— SAN — (E) SANITARY SEWER	— M — (E) MANHOLE
— W — (E) WATER	— SI — (E) STORM SEWER INLET
— SL — (E) STREET LIGHT	
— CHE — (E) OVERHEAD ELECTRIC	

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PROJECT:

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REV	DATE	DESCRIPTION
A	06/19/25	PRELIM CDs
0	06/30/25	ISSUED FOR PERMIT

SHEET TITLE:

ENLARGED PLANS

PROJECT NUMBER: 280570003	
DRAWN BY: SD	CHECKED BY: RL
APPROVED BY: SBC	DATE: 06/17/25
ISSUE No.: 0	SHEET NUMBER: C-2.0

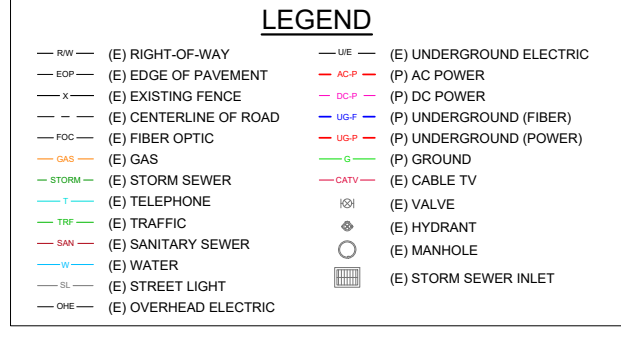
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0 2' 4' 8'
SCALE: 1/4"=1'-0"

ENLARGED PLANS 1

SCALE IS BASE ON 11" X 17" D SIZE

- UNDERGROUND CONSTRUCTION NOTES:**
- CONTRACTOR SHALL NOT COMMENCE BORING OPERATIONS UNTIL THE LOCATION(S) OF ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA HAVE BEEN VERIFIED
 - CONTRACTOR TO VERIFY ALL MEASUREMENTS AND DISTANCES
 - MAINTAIN A MINIMUM BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATIONS
 - CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION
 - ALL PROPOSED WORK TO BE PERFORMED PER LATEST CROWN CASTLE STANDARDS & SPECIFICATIONS



UTILITY NOTE:
 EXISTING UTILITIES SHOWN ARE APPROXIMATE, BASED ON OWNER PROVIDED UTILITY MAPS, EXISTING MARKINGS, VERBAL INFORMATION AND/OR PHYSICAL FEATURES AND MAY NOT BE ALL INCLUSIVE. PRIOR TO CONSTRUCTION (AT LEAST 72 HOURS OR THE MORE RESTRICTIVE MINIMUM NOTIFICATION PERIOD), THE CONTRACTOR SHALL CONTACT SUNSHINE 811 TO ALLOW MARKING OF ALL EXISTING BURIED UTILITIES WITHIN THE SCOPE OF THE PROPOSED WORK ZONE.

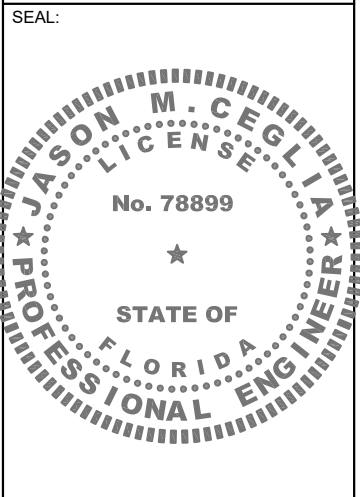
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 DORAL, FL 33122

PROJECT:

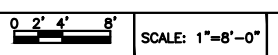
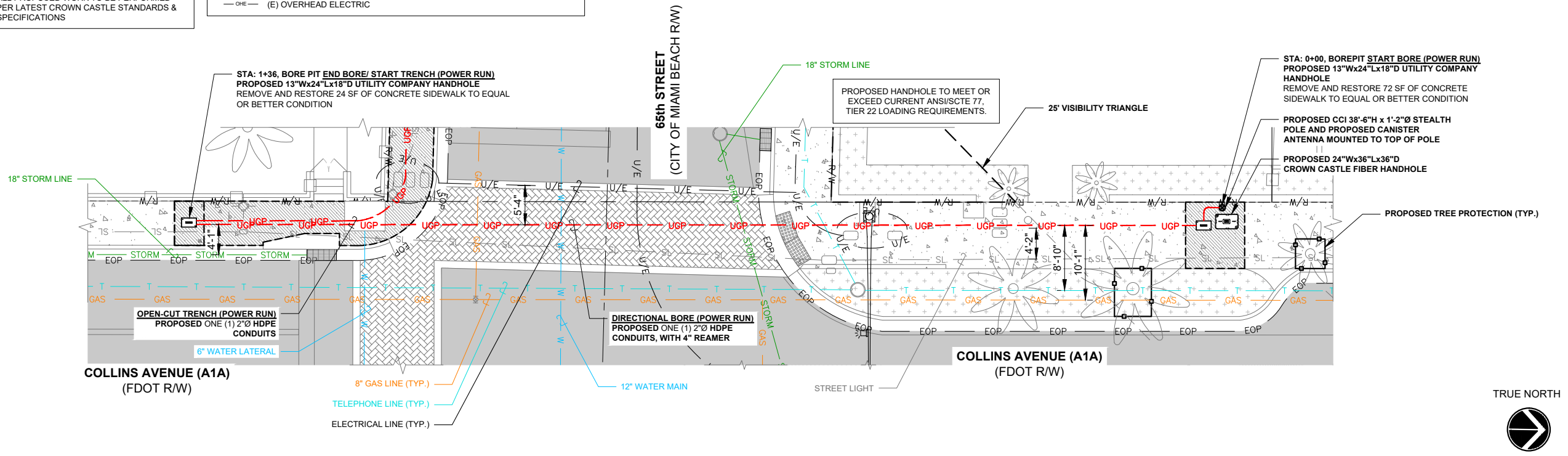
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 MIAMI-DADE COUNTY



CONSULTANT:

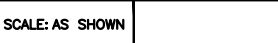
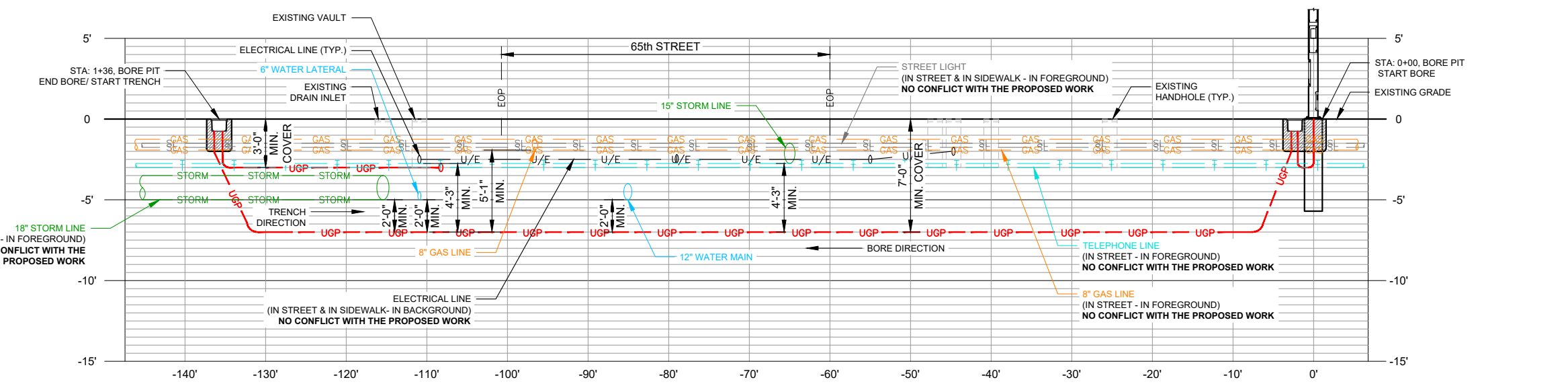


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EXISTING UTILITIES AND BORE PLAN 1

NOTE:
 ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88)



COLLINS AVENUE - BORE PROFILE 2

REV	DATE	DESCRIPTION
A	06/19/25	PRELIM CDs
0	06/30/25	ISSUED FOR PERMIT

SHEET TITLE:
EXISTING UTILITIES AND UNDERGROUND PLAN (POWER RUN)

PROJECT NUMBER:
280570003

DRAWN BY: SD	CHECKED BY: RL
APPROVED BY: SBC	DATE: 06/17/25
ISSUE No.: 0	SHEET NUMBER: C-4.0

SCALE IS BASE ON 11" X 17" D" SIZE

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LEGEND

— RW —	(E) RIGHT-OF-WAY	— U/E —	(E) UNDERGROUND ELECTRIC
— EOP —	(E) EDGE OF PAVEMENT	— ACP —	(P) AC POWER
— X —	(E) EXISTING FENCE	— DCP —	(P) DC POWER
— C —	(E) CENTERLINE OF ROAD	— UGF —	(P) UNDERGROUND (FIBER)
— FOC —	(E) FIBER OPTIC	— UGP —	(P) UNDERGROUND (POWER)
— GAS —	(E) GAS	— G —	(P) GROUND
— STORM —	(E) STORM SEWER	— CATV —	(E) CABLE TV
— T —	(E) TELEPHONE	⊗	(E) VALVE
— TRF —	(E) TRAFFIC	⊙	(E) HYDRANT
— SAN —	(E) SANITARY SEWER	⊕	(E) MANHOLE
— W —	(E) WATER	⊖	(E) STORM SEWER INLET
— SL —	(E) STREET LIGHT		
— OHE —	(E) OVERHEAD ELECTRIC		

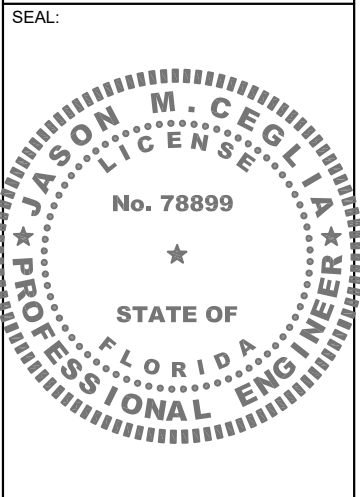
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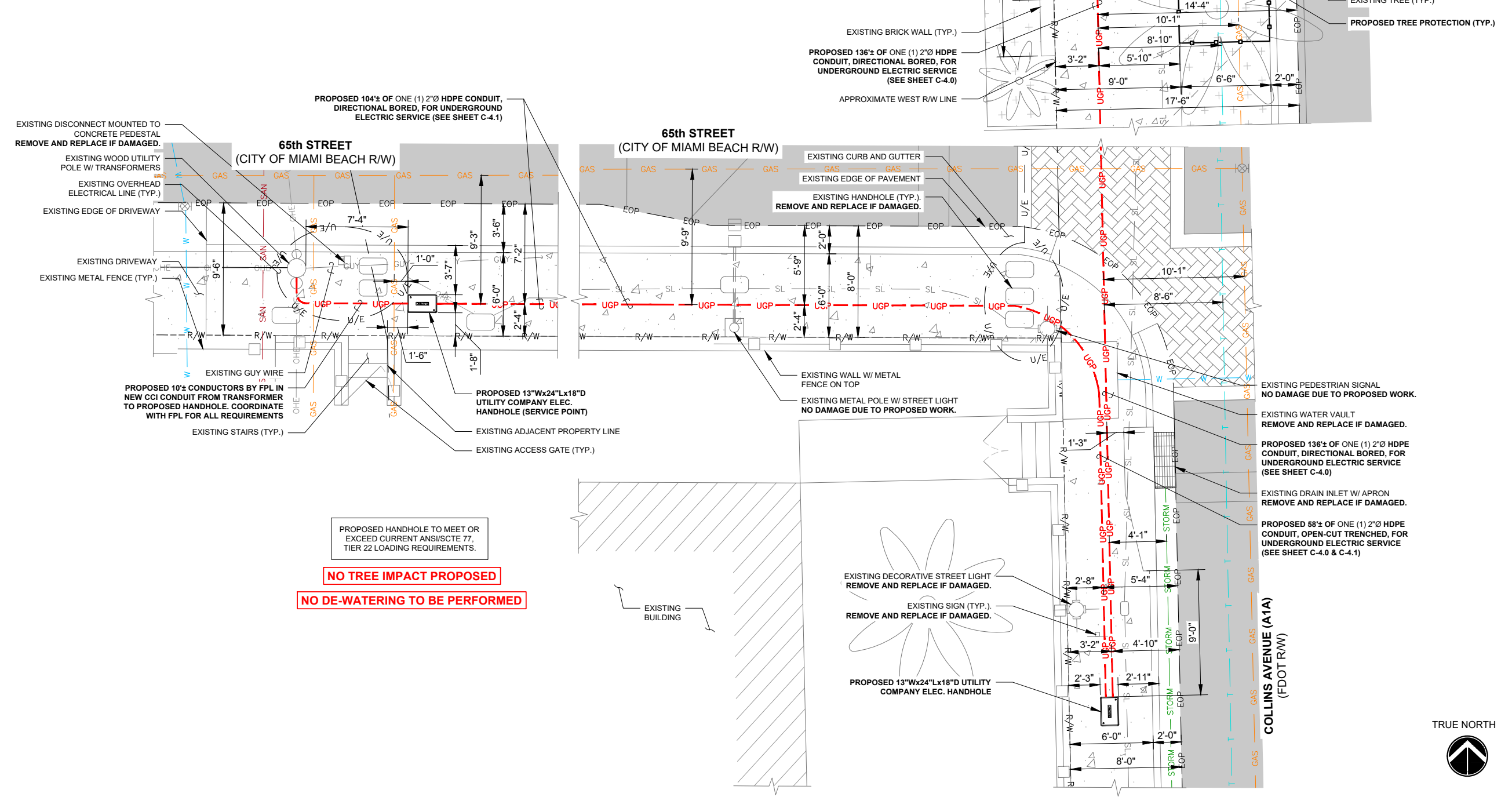
REV	DATE	DESCRIPTION
A	06/19/25	PRELIM CDs
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SHEET TITLE:

POWER ROUTING PLAN

PROJECT NUMBER:
280570003

DRAWN BY: SD	CHECKED BY: RL
APPROVED BY: SBC	DATE: 06/17/25
ISSUE No.: 0	SHEET NUMBER: E-1



PROPOSED HANDHOLE TO MEET OR EXCEED CURRENT ANSI/SC77, TIER 22 LOADING REQUIREMENTS.

NO TREE IMPACT PROPOSED

NO DE-WATERING TO BE PERFORMED

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

POWER ROUTING PLAN 1

SCALE IS BASE ON 11" X 17" D" SIZE

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PANEL NAME:		CROWN-1		MODEL NUMBER:		TBD									
RATED VOLTAGE:		240	120	VOLTS		PHASE/WIRE:		1	3						
MAIN BREAKER:		60	AMPS		BUS RATING:		100	AMPS							
MOUNT:		SURFACE		NEUTRAL BAR:		YES		HINGED DOOR:		YES					
ENCLOSURE TYPE:		NEMA 3R		AIC:		10K									
POS	USAGE FACTOR	BUS AMPS		LOAD	POLES	AMPS	L1	L2	AMPS	POLES	LOAD	BUS AMPS		USAGE FACTOR	POS
		L1	L2									L1	L2		
1	-	0		SPARE	1	20	▲		15	1	RRU	7.8		1.25	2
3	-		0	SPARE	1	20	▲		15	1	RRU		2.6	1.25	4
5	-	0		SPARE	1	20	▲		15	1	SPARE	0		-	6
7													0		8
9									20	2	SURGE ARRESTOR			1.00	10
11									-	-	SPACE	0		-	12
SUB TOTAL AMPS:		0	0									7.8	2.6		
FACTORED TOTAL AMPS: 5				FACTORED TOTAL VA: 1248VA ON 120/240V-1Ø SERVICE											

- NOTES:
- A. ALL CONDUCTORS ARE TYPE CU, AWG, THWN (75°C) COPPER.
 - B. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50FT.
 - C. GROUNDING ELECTRODE SHALL BE ESTABLISHED FROM PANEL BOND INCOMING NEUTRAL TO NEUTRAL BUS.
 - D. SEE SINGLE LINE FOR WIRING DETAILS.
 - E. PANEL SHALL HAVE A MINIMUM SCCR & AIC RATING OF 10,000 AMPS.

SCALE: N.T.S. **PANEL SCHEDULE 1**

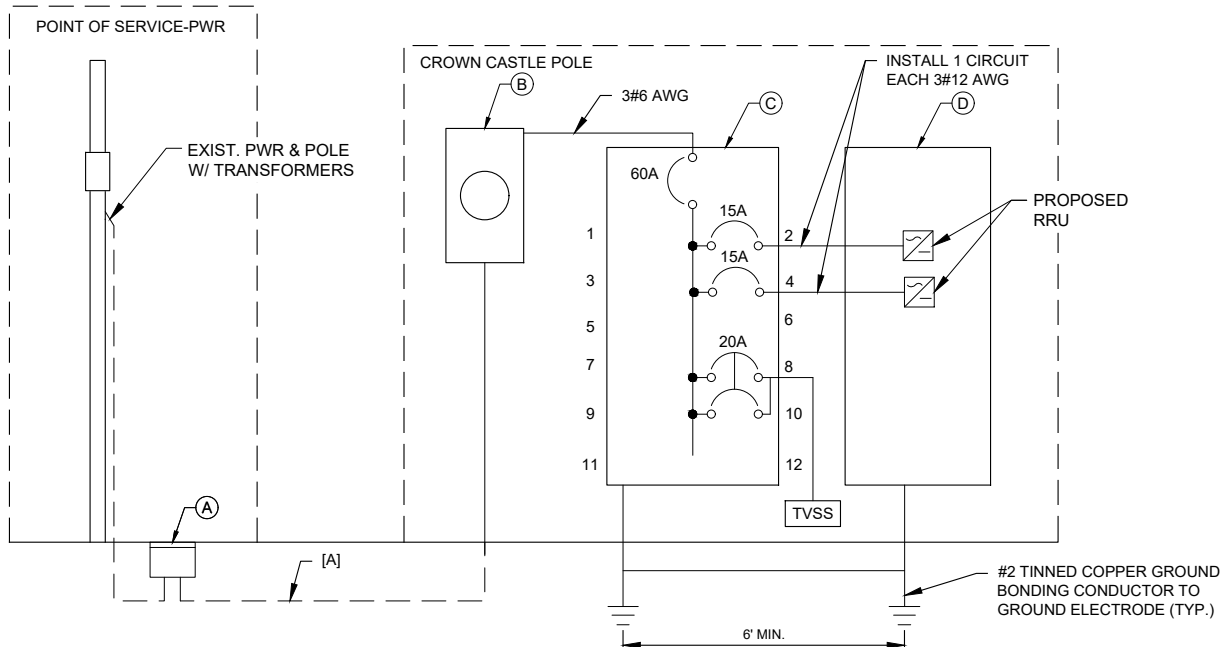
ELECTRICAL							
CIRCUIT ID	ITEM DESCRIPTION	CURRENT	PHASE/WIRE	VOLTS	ONE WAY LENGTH OF RUN	CIRCUIT SIZE (H+N)	CONDUIT Ø
[A]	FROM POINT OF SERVICE TO METER	60A	1Ø/3W	120/240V	0FT - 160FT	[3] #6	2"
					161FT - 255FT	[3] #4	2"
					256FT - 325FT	[3] #3	2"
					326FT - 410FT	[3] #2	2"
					411FT - 515FT	[3] #1	2"
					516FT - 650FT	[3] #1/0	2"
					651FT - 825FT	[3] #2/0	2"
					826FT - 1040FT	[3] #3/0	2"

CIRCUITS SIZED FOR 60A SERVICE WITH MAXIMUM 4.0% VOLTAGE DROP

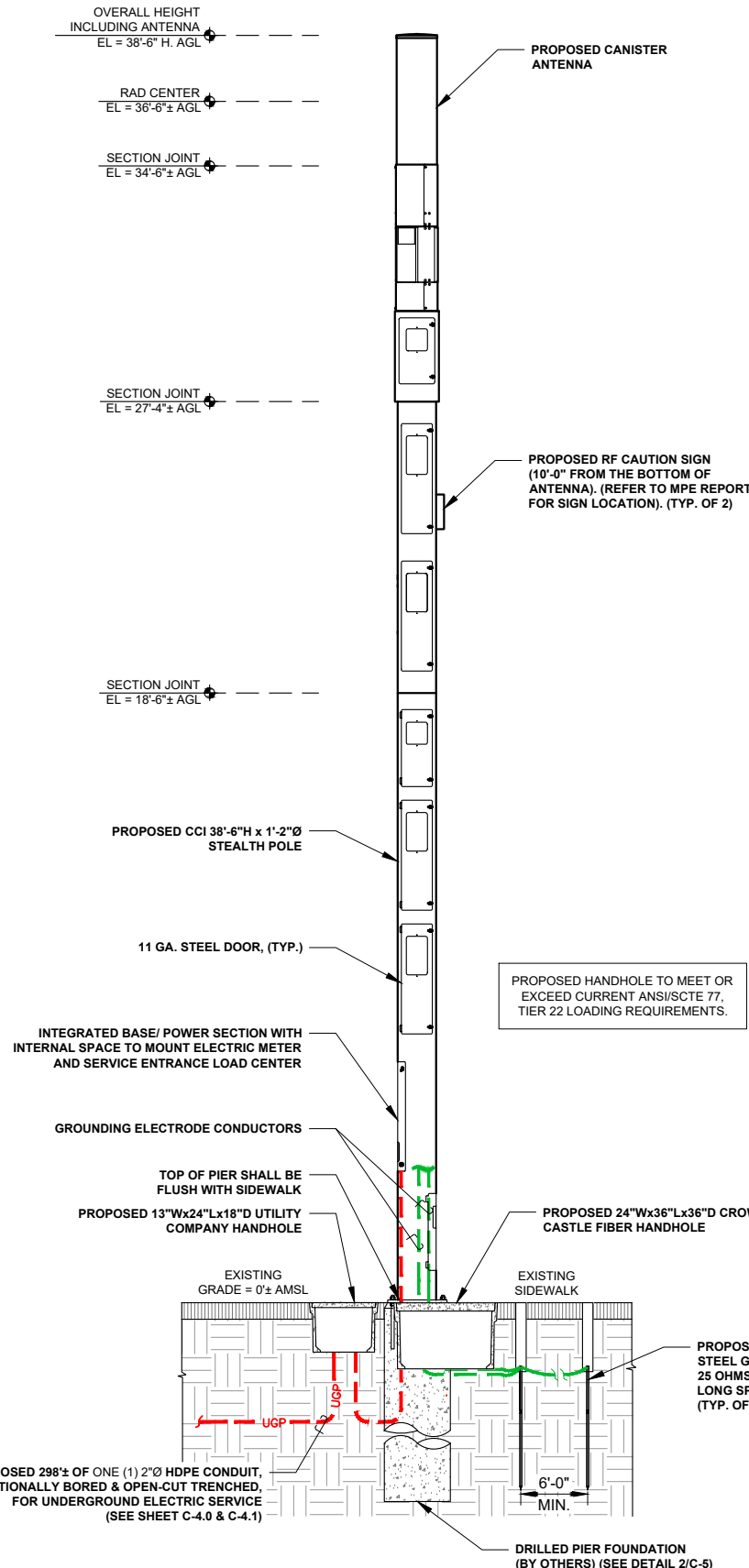
ALL CIRCUITS SHALL BE CU, AWG, THWN / USE ISLCO WIRE GAUGE REDUCERS ON LARGE GAUGE WIRES

NOTE: CIRCUIT [A] SHALL BE PLACED UNDERGROUND FROM METER CAN TO HANDHOLE. CONTRACTOR SHALL COORDINATE WITH CPM AND LOCAL UTILITY PROVIDER FOR POWER RUN INSTALLATION FROM HANDHOLE TO POINT OF SERVICE CONNECTION. CONTRACTOR SHALL PROVIDE HANDHOLE IF REQUIRED (COORDINATE WITH UTILITY COMPANY).

- LEGEND
- (A) POINT OF SERVICE CONNECTION
 - (B) PROPOSED 120/240V RATED, 1Ø/3W, NEMA 3R METER CAN
 - (C) PROPOSED 120/240V RATED, 1Ø/3W, 8 POSITION, NEMA 3R DISTRIBUTION PANEL WITH 60A MAIN DISCONNECT "CROWN-1"
 - (D) NEMA 3R ENCLOSURE FOR RRU RECTIFIERS



SCALE: N.T.S. **SINGLE-LINE DIAGRAM 2**



- LEGEND
- RW — (E) RIGHT-OF-WAY
 - EOP — (E) EDGE OF PAVEMENT
 - CL — (E) CENTERLINE OF ROAD
 - X — (E) EXISTING FENCE
 - ACP — (P) AC POWER
 - DCP — (P) DC POWER
 - G — (P) GROUND
 - UGF — (P) UNDERGROUND (FIBER)
 - UGP — (P) UNDERGROUND (POWER)

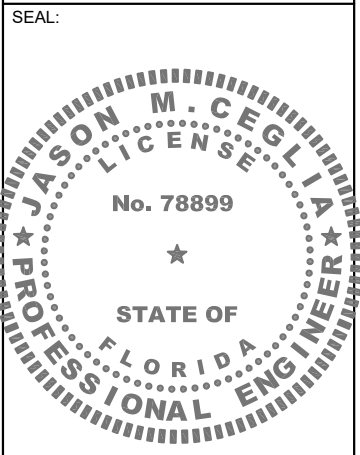
SCALE: N.T.S. **POLE ELEVATION DETAIL 3**

CLIENT: **CROWN CASTLE**

3470 NW 82nd AVENUE
10th FLOOR
DORAL, FL 33122

PROJECT: **SITE ID: FL6426BA**

SCU: 467074
6528 COLLINS AVENUE
MIAMI BEACH, FL 33144
MIAMI-DADE COUNTY



CONSULTANT: **Stantec**

800 Fairway Drive, Suite 195,
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REV	DATE	DESCRIPTION
A	06/19/25	PRELIM CDs
0	06/30/25	ISSUED FOR PERMIT

SHEET TITLE: **ELECTRICAL DETAILS**

PROJECT NUMBER: 280570003

DRAWN BY: SD	CHECKED BY: RL
APPROVED BY: SBC	DATE: 06/17/25
ISSUE No.: 0	SHEET NUMBER: E-2

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ELECTRICAL NOTES:

- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CROWN CASTLE CM AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE CROWN CASTLE CM HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP., ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTING OF THEIR BID. FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC, ALL CODES AND ORDINANCES OF THE LOCAL JURISDICTION, AND POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT ARE NOT BE LIMITED TO:

A) UL - UNDERWRITERS LABORATORIES
B) NEC - NATIONAL ELECTRICAL CODE
C) NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
D) OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
E) SBC - STANDARD BUILDING CODE
F) NFPA - NATIONAL FIRE PROTECTION AGENCY
G) ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
H) IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
I) ASTM - AMERICAN SOCIETY FOR TESTING MATERIALS
- REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH CROWN CASTLE CM ANY SIZES AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC... ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CROWN CASTLE CM, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION, UNLESS OTHERWISE NOTED.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATIONS, SET FORTH BY APPLICANT.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY FUNCTIONAL AND SHALL BE APPROVED BY THE CROWN CASTLE CM AND LOCAL JURISDICTION. ANY DEFICIENCIES SHALL BE CORRECTED BY AN ELECTRICAL CONTRACTOR AT THE SOLE COST OF THE CONTRACTOR.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED BY THE CONTRACTOR WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS INDICATED.
- DITCHING AND BACK FILL: CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO EXCAVATION, AND BACKFILLING NOTES.
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEC.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURER'S CATALOG INFORMATION OF ANY/ALL EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CROWN CASTLE CM PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE CROWN CASTLE CM UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SWITCHES SHALL BE UL-RATED, H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE.
- ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND KNOWN AS "NO-OXIDE A" BY DEARBORN CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.

- RACEWAYS: CONDUIT SHALL BE SCHEDULE 80 PVC MEETING OR EXCEEDING NEMA TC2 1990. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITZ ZINC' OR 'COLD GALV'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSULATION, UNLESS OTHERWISE NOTED, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- SERVICE: AS SPECIFIED ON THE DRAWINGS. OWNER OR OWNER'S AGENT WILL APPLY FOR POWER. ALL PROVISIONS FOR TEMPORARY POWER WILL BE OBTAINED BY THE CONTRACTOR.
- TELEPHONE OR FIBER SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH PULL STRINGS AS INDICATED ON DRAWINGS.
- ELECTRICAL AND TELCO/FIBER RACEWAYS TO BE BURIED A MINIMUM DEPTH OF 36", UNLESS OTHERWISE NOTED.
- CONDUIT SIZES AS SHOWN ON THE DRAWINGS ARE A MINIMUM. THE CONTRACTOR MAY INCREASE AS REQUIRED FOR EASE OF PULLING.
- CONTRACTOR SHALL PLACE 6" WIDE DETECTABLE WARNING TAPE AT A DEPTH OF 6" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC" OR "BURIED TELECOM".
- ALL BOLTS SHALL BE 3-16 STAINLESS STEEL.
- ALL EQUIPMENT SHALL BE PAINTED/ORDERED TO MATCH POLE COLOR.

GROUNDING PROTECTION SYSTEM NOTES:

- ALL HARDWARE SHALL BE 3-16 STAINLESS STEEL, INCLUDING LOCK WASHERS. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND, AS SPECIFIED, BEFORE MATING. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8 INCH DIAMETER OR SIZED TO MATCH COMPONENTS OR LOG SIZE.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.
- ALL ELECTRICAL AND GROUNDING AT THE POLE SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER.
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #6 GROUND WIRES. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS.
- ALL GROUND CONNECTIONS SHALL BE #6 AWG, UNLESS OTHERWISE NOTED. USE SOLID COPPER, BLACK JACKETED WIRE ON NON WOOD POLES AND SOLID TINNED COPPER, BARE (NO JACKET) WIRES ON WOOD POLES. BLACK WIRES WILL USE A SINGLE STRIPE OF GREEN ELECTRICAL TAPE WITHIN 12" OF THE CONNECTION POINTS TO IDENTIFY AS GROUNDING WIRE.
- NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE/ 6" BELOW FROST-LINE IN TRENCH, UNLESS OTHERWISE NOTED. BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT/ENGINEER.
- ALL GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
- ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
A. BURNDY, HY-GRADE U.L. LISTED CONNECTORS FOR OUTDOOR USE OR AS APPROVED BY APPLICANT PROJECT MANAGER.
B. CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
C. ONE (1) OR (2) HOLES TINNED COPPER COMPRESSION (LONG BARREL) FITTINGS.
- ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT THE CRIMP (RESULTING FROM USE OF PROPER CRIMPING DEVICES) AND WEATHER-PROOFED WITH HEAT SHRINK.
- ALL CONNECTION HARDWARE SHALL BE TYPE 3-16 STAINLESS STEEL (NOT ATTRACTED TO MAGNETS).
- ELECTRICAL SERVICE EQUIPMENT GROUNDING SHALL COMPLY WITH NEC, ARTICLE 250-82 AND SHALL BOND ALL EXISTING AND NEW GROUNDING ELECTRODES. NEW GROUNDING ELECTRODE SHALL INCLUDE BUT NOT LIMITED TO GROUND RODS.
- PROVIDE "CABLE ENTRANCE GROUND BAR" (CEGB), 3"H x 6"L X 1/4"D. COORDINATE INSTALLATION WITH CROWN CASTLE CM.
- ELECTRICAL CONTRACTOR SHALL TAKE MEGGER READINGS OF EXISTING GROUND. THE RESULTS SHALL NOT BE GREATER THAN 25 OHMS.

- ALL CONNECTIONS TO GROUND SYSTEM SHALL BE MADE IN LINE WITH BENDS NOMINAL 12" RADIUS IN THE DIRECTION OF CURRENT FLOW T-CONNECTIONS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL PROVIDE EXOTHERMIC BONDING AT ALL BURIED GROUND RING CONNECTIONS AND AS INSTRUCTED BY CM.

CLIENT:

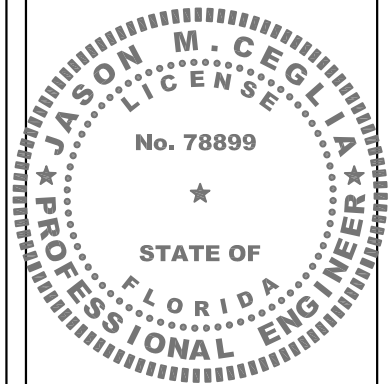


3470 NW 82nd AVENUE
10th FLOOR
DORAL, FL 33122

PROJECT:

SITE ID:FL6426BA
SCU: 467074
6528 COLLINS AVENUE
MIAMI BEACH, FL 33144
MIAMI-DADE COUNTY

SEAL:



CONSULTANT:



800 Fairway Drive, Suite 195,
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Tel: 954.577.4655
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REV	DATE	DESCRIPTION
A	06/19/25	PRELIM CDs
0	06/30/25	ISSUED FOR PERMIT

SHEET TITLE:

ELECTRICAL NOTES

PROJECT NUMBER:
280570003

DRAWN BY: SD	CHECKED BY: RL
APPROVED BY: SBC	DATE: 06/17/25
ISSUE No.: 0	SHEET NUMBER: E-5

ELECTRICAL SERVICE:

1. GENERAL COMPLY WITH AND COORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
2. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.
3. CONTRACTOR TO VERIFY UTILITY CO. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10,000 AIC).
4. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE NEW SERVICE AND PAYING ALL ASSOCIATED FEES.
5. IDENTIFICATION: IDENTIFY SERVICE DISCONNECTION MEANS WITH PERMANENT NAMEPLATE.
6. THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.
7. LOCATION AND ARRANGEMENTS: DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, FIXTURES, OUTLETS, ETC., AND ARE NOT TO BE SCALED PROPER JUDGMENT MUST BE EXERCISED IN THE EXECUTION TO ENSURE THE BEST POSSIBLE INSTALLATION.
8. PANEL AND DISTRIBUTION BOARD IDENTIFICATION: SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SHALL BE IDENTIFIED WITH ENGRAVED, WHITE ON BLACK, LAMINATED, RIGID PHENOLIC NAMEPLATES WITH 1/4 INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CABINET.

CONDUCTORS:

1. USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600 VOLT, COLOR CODED. USE SOUND CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG, STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8 AWG. USE PRESSURE-TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER. ALUMINUM CONDUCTORS SHALL NOT BE USED.
2. NO BX, MC OR ROMEX CABLE SHALL BE PERMITTED.
3. EACH END OF EVERY POWER, GROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAP WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA SPECIFICATIONS.

EQUIPMENT:

1. THE MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING EQUIPMENT A.I.C.
2. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD A.I.C. RATING HIGHER THAN INCOMING FROM UTILITY CO.
3. THE CONTRACTOR SHALL PROVIDE AN ITEMIZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HRS OF THE NOTICE TO PROCEED.
4. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (WP OR BEVER) OUTDOORS.
5. NONMETALLIC RECEPTACLE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (WP OR BETTER) OUTDOORS.

COAXIAL CABLE REQUIREMENTS:

1. GENERAL: PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY FOR RECEIVING, INSTALLING, TESTING, AND ADJUSTING ANTENNA CABLES FROM THE ANTENNA TO THE CONNECTIONS AT THE BASE TRANSMISSION SYSTEM (BTS). THIS SHALL INCLUDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPLETE OPERATING SYSTEM. ANTENNA, ANTENNA CABLES, CONNECTORS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF MATERIALS.
2. INSTALLATION
 - 2.A. COAXIAL CABLE LENGTHS SHALL BE HELD MEASURED. INSTALLER SHALL NOTIFY CARRIER PRIOR TO PURCHASE OF CABLE OF THE OVERALL LENGTH REQUIRED.
 - 2.B. COAXIAL CABLE TYPE AND DIAMETER SHALL BE VERIFIED WITH CARRIER.
 - 2.C. COAXIAL CABLES SHALL BE LABELED IN ACCORDANCE WITH CARRIER ELECTRICAL MATERIALS AND METHODS SPECIFICATIONS.
 - 2.D. INSTALL CONNECTORS TO COAXIAL CABLE AT BOTH ENDS (ANTENNA END AND BTS LOCATION.).
 - 2.E. UPON SUCCESSFUL COMPLETION OF THE SWEEP TEST, THE CONTRACTOR SHALL PROVIDE A WEATHERTIGHT SEAL ON THE COAX CABLES.
 - 2.F. THE MINIMUM BENDING RADIUS FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOW OR PER THE MANUFACTURE, WHICHEVER IS MORE CONSERVATIVE:

CABLE	IN AIR/CABLE TRAY	IN CONDUIT
1/2"	5"	10"
7/8"	10"	18"
1-5/8"	20"	28"

3. CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENDS. CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD.

TESTING AND EQUIPMENT TURN UP REQUIREMENTS:

1. RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT TESTING WILL COMPLY WITH CURRENT INDUSTRY STANDARDS AND OR THOSE STANDARDS OF THE EQUIPMENT MANUFACTURER OR PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.
2. CONTRACTOR WILL USE THE APPROPRIATE CALIBRATED TESTING EQUIPMENT IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT THAT MEET INDUSTRY STANDARDS OF THE MANUFACTURER OR THOSE STANDARDS PROVIDED TO THE CONTRACTOR PRIOR TO TESTING.
3. CONTRACTOR TO VERIFY AND RECORD ALL TEST RESULTS AND PROVIDE THESE RESULTS WITHIN THE FINAL CLOSE OUT PACKAGE.
4. ALL PERSONNEL INVOLVED IN THE TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT WILL BE REQUIRED TO HAVE BEEN TRAINED AND OR CERTIFIED IN THE PROPER TESTING OF RF CABLE, DATA CABLE, RADIO EQUIPMENT AND BACK HAUL EQUIPMENT.
5. ALL TEST RESULTS SHALL BE TIME STAMPED, RECORDED AND PRESENTED PRIOR TO ENERGIZING AND TURN UP OF ANY EQUIPMENT.
6. GPS EQUIPMENT (WHEN REQUIRED) IS NOT TO BE TESTED OR ATTACHED TO ANY CABLING DURING TESTING, DOING SO WILL DAMAGE THE GPS UNIT.
7. PRIOR TO TESTING IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE TESTING PROCEDURES THEY ARE TO CALL AND OBTAIN ASSISTANCE FROM A QUALIFIED DESIGNATED TESTING REPRESENTATIVE.
8. EQUIPMENT IS NOT TO BE ENERGIZED UNTIL ALL TESTING HAS BEEN COMPLETED, APPROVED AND THE APPROPRIATE AUTHORITY HAS BEEN NOTIFIED AND GIVES APPROVAL TO ENERGIZE THE EQUIPMENT. TCH EXISTING INSTALLATION REQUIREMENTS.

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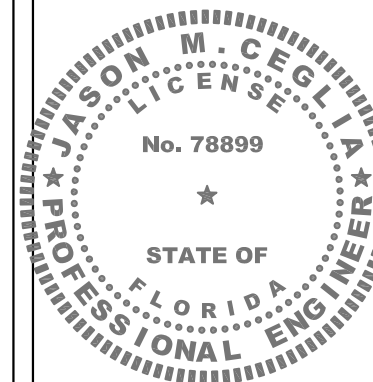


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PROJECT:

SITE ID: FL6426BA
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MIAMI-DADE COUNTY

SEAL:



CONSULTANT:



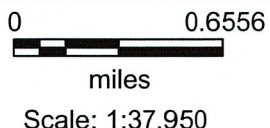
800 Fairway Drive, Suite 195,
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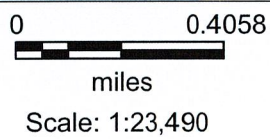
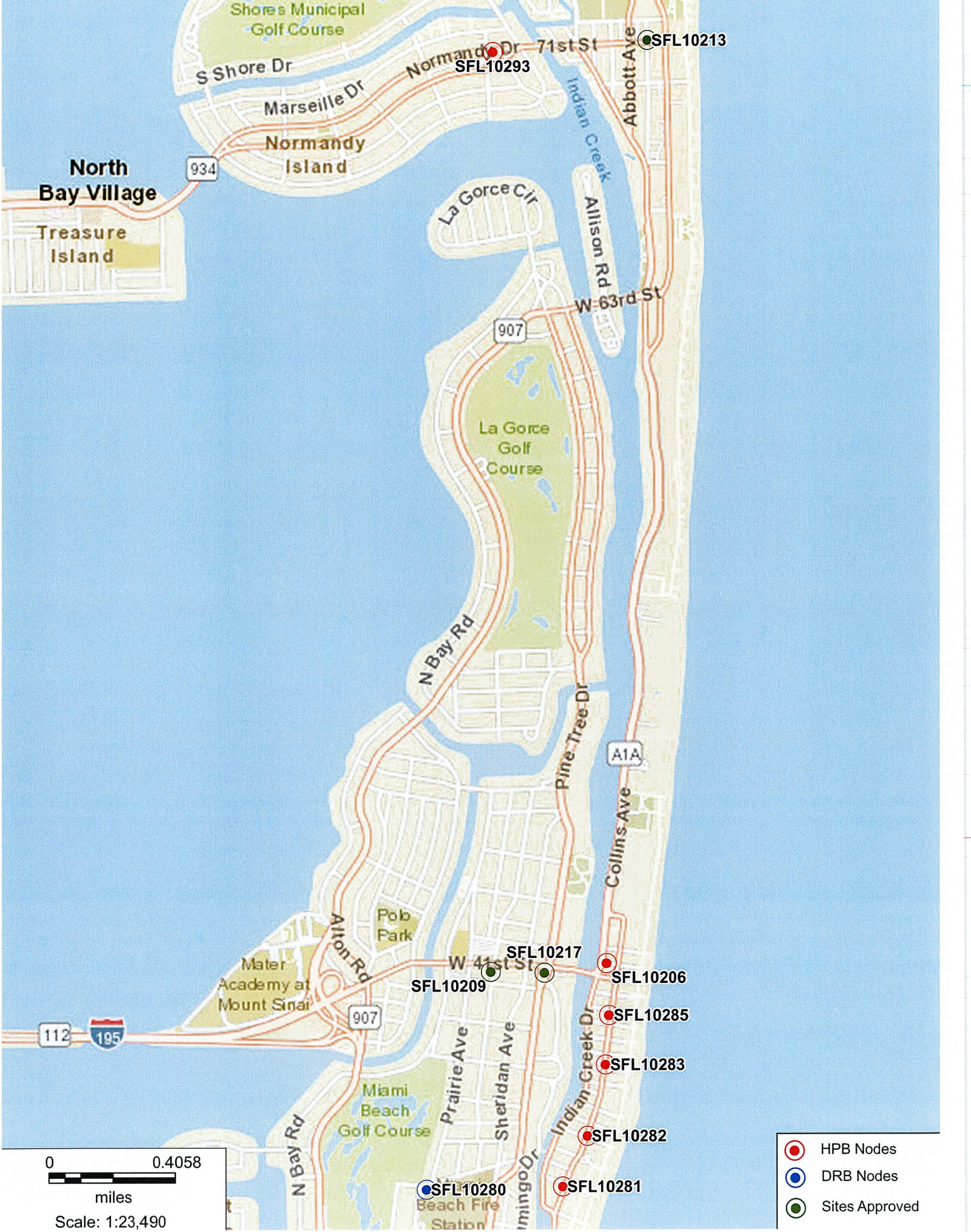
SHEET TITLE:
ELECTRICAL NOTES

PROJECT NUMBER: 280570003	
DRAWN BY: SD	CHECKED BY: RL
APPROVED BY: SBC	DATE: 06/17/25
ISSUE No.: 0	SHEET NUMBER: E-6

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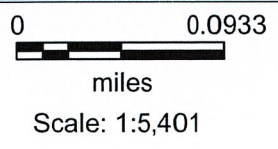
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- DRB Nodes
- Sites Approved



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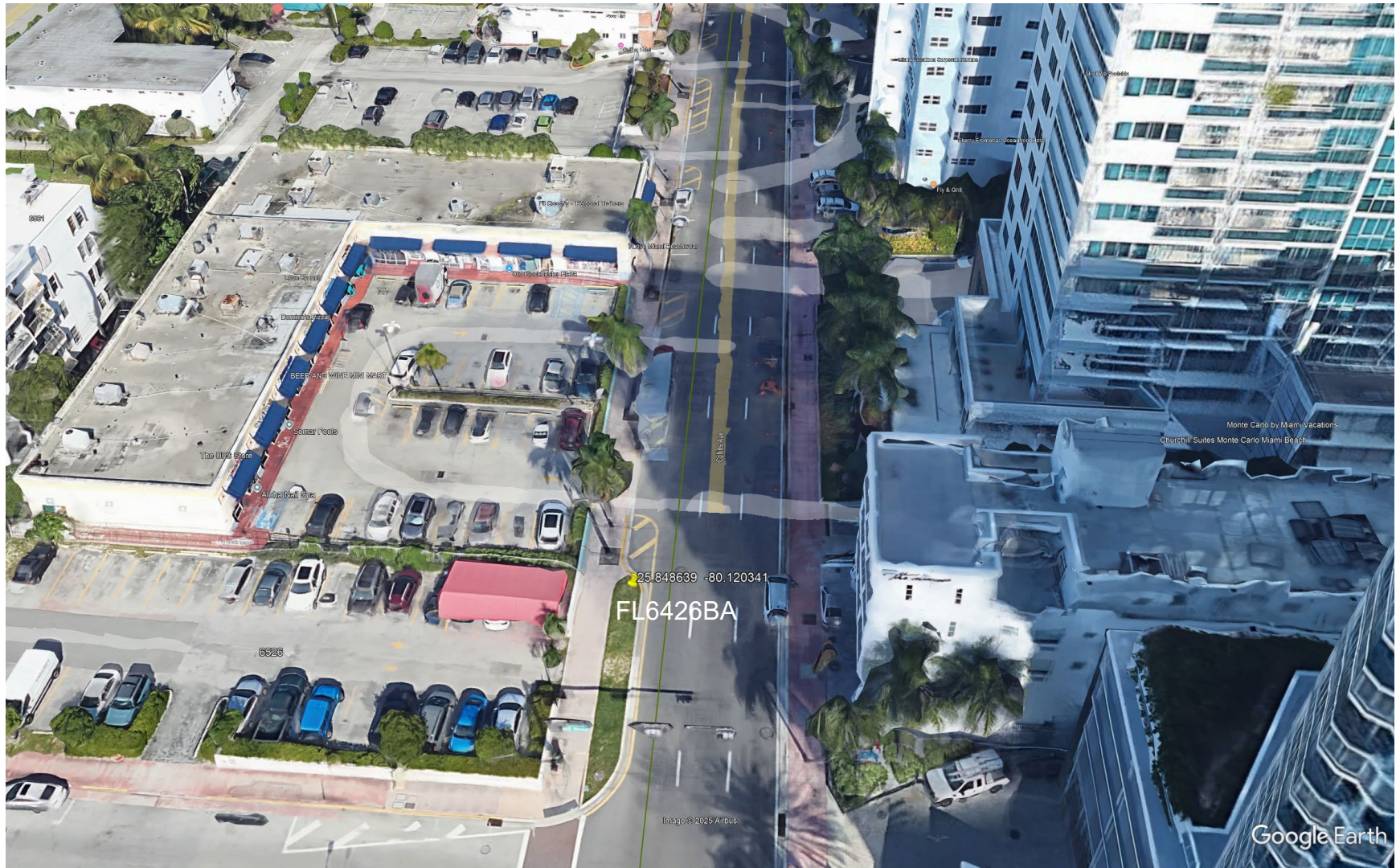
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FL6426BA

Aerial View

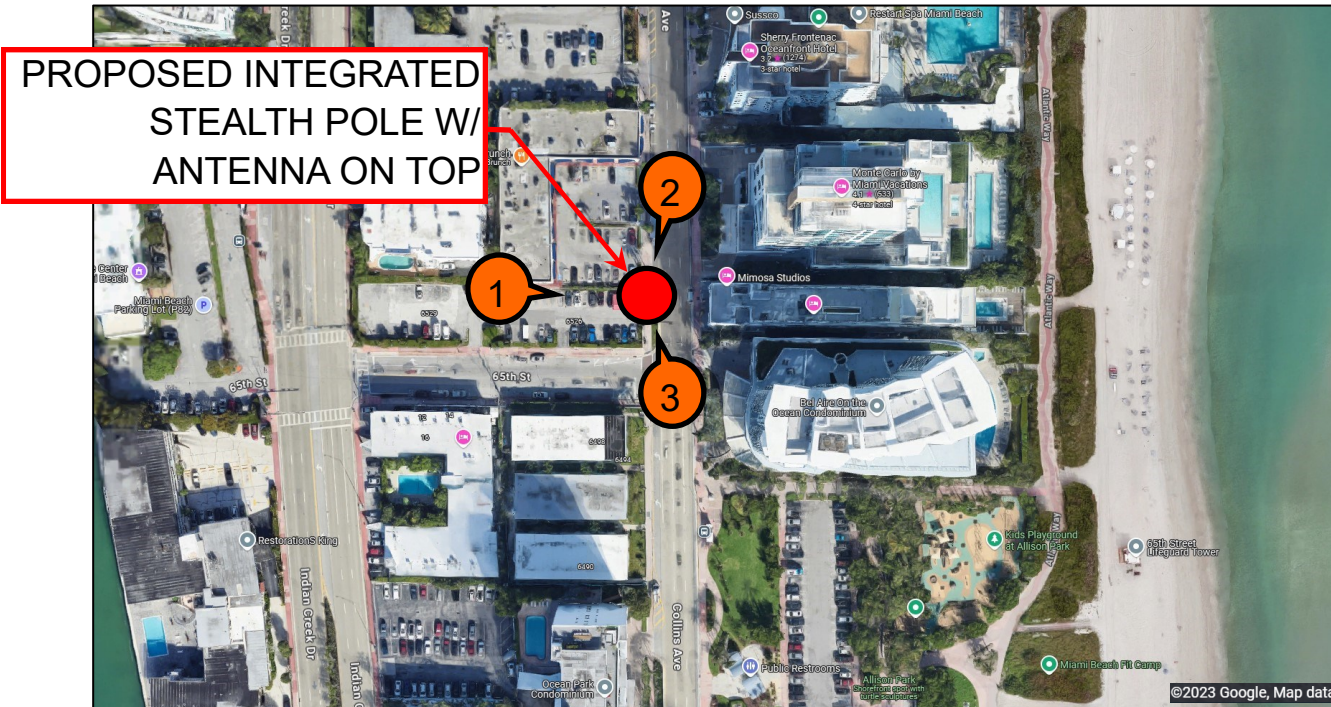
6528 Collins Avenue, Miami Beach FL 33144





NEW SITE BUILD

6528 COLLINS AVENUE, MIAMI BEACH, FL 33144
FL6426BA

25.848639, -80.120341



LEGEND

-  SITE LOCATION
-  VIEW DIRECTION



NEW SITE BUILD

VIEW 1

6528 COLLINS AVENUE, MIAMI BEACH, FL 33144
FL6426BA

25.848639, -80.120341



VIEW: BEFORE



VIEW: AFTER

NEW SITE BUILD

VIEW 2

6528 COLLINS AVENUE, MIAMI BEACH, FL 33144
FL6426BA

25.848639, -80.120341



VIEW: BEFORE



VIEW: AFTER

NEW SITE BUILD

**6528 COLLINS AVENUE, MIAMI BEACH, FL 33144
FL6426BA**

25.848639, -80.120341

VIEW 3

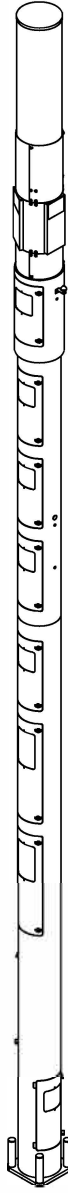


VIEW: BEFORE



**PROPOSED INTEGRATED
STEALTH POLE W/
ANTENNA ON TOP**

VIEW: AFTER



Raycap

7555-A PALMETTO COMMERCE PARKWAY

NORTH CHARLESTON, SC 29420 USA

P: (800)-755-0689 / F: (843)-207-0207

WWW.RAYCAP.COM

PROJECT MANAGER: DANIEL ROBERTS; 843-574-9675

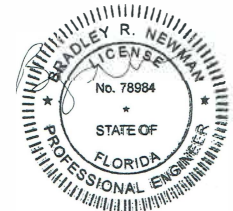
FINAL ENGINEERING

CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL

RAYCAP #: CC20-00029W-05R0

DRAWING INDEX

T1	TITLE SHEET
N1-N2	NOTES & SPECIFICATIONS
S1-S3	ASSEMBLY - ELEVATIONS
S4	FOUNDATION DETAILS



Digitally signed by Bradley Newman
 DN: CN=Bradley Newman,
 E=newman@nbcllc.com,
 G=Bradley, SN=Newman,
 C=US
 Date: 2025.06.11 19:05:42-04'00'

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NB+CTM
 TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
 6095 MARSHALEE DRIVE, SUITE 300
 ELK RIDGE, MD 21075
 410-712-7032

T1
 06/05/2025 **B**

GENERAL

- THIS PRODUCT IS SOLD PURSUANT TO RAYCAP, INC. TERMS AND CONDITIONS, WHICH ARE INCORPORATED HEREIN BY REFERENCE.
- THESE SHALL APPLY FOR ALL CASES UNLESS NOTED OTHERWISE (U.N.O.).
- ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS REMOVED.
- IN THE CASE WHERE DIMENSIONS CONTAINED WITHIN ARE LABELED TO BE VERIFIED IN FIELD (V.I.F.), THEY MUST BE FIELD VERIFIED AND/OR CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
- IN THE CASE THAT THE PROPOSED IS TO BE PLACED ON AN EXISTING STRUCTURE, THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE TELECOM STRUCTURE OUTLINED WITHIN. THE EXISTING STRUCTURE, WHETHER IT BE A FOUNDATION, POLE, OR BUILDING (IF APPLICABLE) SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW RAYCAP STRUCTURE SHOWN ON THE DRAWINGS.
- TELECOM PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES. ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. RAYCAP IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
- NOTES FOR CONTRACTOR/INSTALLER: ALL BIDS FOR THE INSTALLATION/ERECTION OF THIS PRODUCT SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING MINIMUM REQUIRED TRADES: RIGGING, STEEL ERECTION, STEEL FABRICATION/MODIFICATION, WELDING, ELECTRICAL, CONCRETE, EXCAVATION AND WATERPROOFING. CONTRACTOR MAY, IN CONTRACTOR'S SOLE AND ABSOLUTE DISCRETION, DETERMINE ADDITIONAL TRADES ARE NECESSARY TO INSTALL/ERECT THE PRODUCT.
- THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED. THEREFORE, PRIOR TO BEGINNING OF WORK THE CONTRACTOR SHOULD SURVEY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
- PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE. WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.
- CONTRACTOR TO SHIM BASE PLATES AND MATING FLANGES AS REQUIRED TO ENSURE LEVEL SURFACE.

STRUCTURAL STEEL AND ALUMINUM

- STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL AND SPECIFICATIONS.
- STEEL I-SHAPE, ANGLE, CHANNEL, AND MISCELLANEOUS MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL PLATE MEMBERS SHALL CONFORM TO MINIMUM ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- STEEL PIPE AND ROUND TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (42 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL RECTANGULAR AND SQUARE TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (46 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
- STEEL WIDEFLANGE MEMBERS SHALL CONFORM TO ASTM A992 (50 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
- STEEL TAPERED POLES SHALL CONFORM TO ASTM A572 GR50 FOR 11 GA AND ASTM A572 GR85 FOR .188" and .25" WALL THICKNESS.
- ALUMINUM PLATE MEMBERS SHALL BE GRADE 5052-H34. EXCEPTION FOR 3/4" OR THICKER UNBENT MEMBERS TO BE GRADE 6061-T6.
- ALUMINUM PIPE TO BE GRADE 6061-T6.
- ALUMINUM TAPERED POLES TO BE GRADE 6063-T6.
- ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325 SPECIFICATIONS, U.N.O. A325N AND A325X ALLOWED. ALL BOLTS ARE RECOMMENDED TO BE ORIENTED WITH THREADS UP AND OUT UNLESS SITE SPECIFIC CONDITIONS WARRANT OTHERWISE.
- STRUCTURAL BOLTS SHALL BE TIGHTENED PER THE "TURN OF THE NUT" METHOD.
- STRUCTURAL BOLT HOLE EDGE DISTANCES SHALL BE PER AISC SECTION J3.
- ALL WELDING SHALL BE PERFORMED WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1 FOR STEEL, AWS D1.2 FOR ALUMINUM AND AWS D1.6 FOR STAINLESS STEEL. STEEL WELDS SHALL BE BY E70XX, LOW HYDROGEN ELECTRODE. ALUMINUM WELDS SHALL UTILIZE 4043 FILLER OR APPROVED ALTERNATIVES. VERIFY FILLER MATERIAL IS COMPATIBLE WITH BASE METAL FOR EACH WELDED JOINT.
- UNCOATED STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 SPECIFICATIONS AFTER FABRICATION OR PAINTED WITH RUST INHIBITIVE PRIMER.
- STEEL HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM F2329, U.N.O.
- AFTER ANY FIELD HOLE PUNCHING / DRILLING OR CUTTING HAS BEEN COMPLETED, OR FOR ANY DAMAGED STRUCTURAL MEMBER, THE GALVANIZING MUST BE REPAIRED ACCORDING TO ASTM A780.
- ALL WELDED STEEL ASSEMBLIES AND INDIVIDUAL STEEL PARTS SHOULD HAVE THE PART NUMBER WELDED OR TAGGED ONTO THE PART OR ASSEMBLY. IF WELDED, THE PART NUMBERS SHOULD BE LOCATED CONSISTENTLY AND AWAY FROM ANY CONNECTION POINT TO AVOID ANY INTERFERENCE ISSUES WITH THE WELD.
- DISSIMILAR METALS IN CONTACT SHALL BE INSULATED WITH PAINT OR OTHER APPROVED COATING TO PREVENT GALVANIC CORROSION.

DISCLAIMERS:

- ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
- SOME TELECOMMUNICATION STRUCTURES ARE SUSCEPTIBLE TO WIND-INDUCED OSCILLATIONS. OSCILLATIONS MAY OCCUR AT LOW OR MODERATE WIND SPEEDS AND MAY CAUSE STRUCTURAL DAMAGE. TIA PROVIDES NO PRACTICAL ANALYTICAL METHOD TO PREDICT AND PREVENT WIND-INDUCED STRUCTURAL OSCILLATIONS. RAYCAP, INC. RECOMMENDS FREQUENT MONITORING TO IDENTIFY WIND-INDUCED OSCILLATION AND REGULAR CONDITION ASSESSMENTS TO IDENTIFY FATIGUE CRACKING, LOOSE OR MISSING BOLTS, AND ANY OTHER STRUCTURAL DEFECTS. ANY OSCILLATION OR DEFECTS OBSERVED SHALL BE IMMEDIATELY REPORTED TO RAYCAP, INC. FOR FURTHER EVALUATION AND POSSIBLE REPAIRS OR MODIFICATIONS WHICH MAY BE REQUIRED AT THE OWNERS EXPENSE.
- WHERE EFFECTIVE PROJECTED AREAS (EPA) ARE USED, IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY INSTALLED EQUIPMENT DOES NOT EXCEED LISTED EPA.

SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION:

- STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE BUILDING CODE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. ALTERNATIVELY, SPECIAL INSPECTION OF MATERIALS, WELDING, AND FABRICATION PROCEDURES SHALL BE REQUIRED FOR FABRICATION BY AN UNAPPROVED FABRICATOR.
- NO FIELD WELDING SHALL BE PERMITTED.
- THE FOLLOWING SPECIAL INSPECTIONS (WHERE APPLICABLE) SHALL BE REQUIRED PER CHAPTER 17 OF THE BUILDING CODE.
 - A. SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING (WHEN APPLICABLE):
 - I. PERIODIC SPECIAL INSPECTION IF BOLTS ARE PRETENSIONED WITH MATCH-MARKING TECHNIQUES.
 - II. CONTINUOUS SPECIAL INSPECTION OF ALL OTHER HIGH-STRENGTH BOLTING.
 - B. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, SPECIAL INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.
- NO STRUCTURAL OBSERVATION IS REQUIRED.

FRP

- FRP STRUCTURAL SHAPES SHALL BE BEDFORD FRP SERIES 1525, MANUFACTURED USING THE PULTRUSION PROCESS
- IF PREFABRICATED MEMBERS DO NOT ASSEMBLE PER PLAN, CONTACT RAYCAP, INC. BEFORE CUTTING OR ALTERING FABRICATED MEMBERS.
- FRP STRUCTURAL MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL PROTECT THE FRP STRUCTURAL MEMBERS FROM ABUSE TO PREVENT BREAKAGE, NICKS, GOUGES, ETC. DURING FABRICATION, HANDLING, AND INSTALLATION.
- FRP BOLTS SHOULD BE TIGHTENED 1/2 TURN PAST SNUG AND LOCKED WITH EPOXY. FRP OR STEEL BOLTS THROUGH FRP MEMBERS SHALL MEET THE FOLLOWING SPACING AND EDGE DISTANCE REQUIREMENTS, MEASURED FROM BOLT CENTERS:
 - MIN. BOLT SPACING = 4 TIMES BOLT DIA
 - MIN. EDGE DIST = 3 TIMES BOLT DIA. IN DIRECTION OF PULTRUSION
 - MIN. EDGE DIST = 2 TIMES BOLT DIA. PERPENDICULAR TO DIRECTION OF PULTRUSION

DESIGN NOTES:

STRUCTURAL DESIGN IS BASED ON THE 2023 FBC WITH 2021 IBC CODE & ANSITIA-222-H

SITE LOCATION:

MIAMI, FL

DESIGN LOADS:

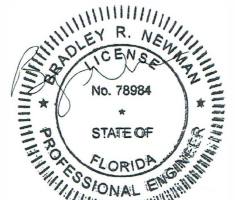
WIND:
ULTIMATE WIND SPEED: 175 MPH (3-SEC GUST)
RISK CATEGORY: II
EXPOSURE: D

SEISMIC:

IMPORTANCE FACTOR: 1.0
RISK CATEGORY: II
SITE CLASS: D
MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_s = 0.048g S₁ = 0.02g
SEISMIC DESIGN CATEGORY: A
SPECTRAL RESPONSE COEFFICIENTS: S_{ds} = 0.043g S_{d1} = 0.029g

COLUMN REACTIONS:

SHEAR REACTION: V = 3.3 kips
AXIAL REACTION: R = 8.66 kips
MOMENT: M = 74.4 kips-ft



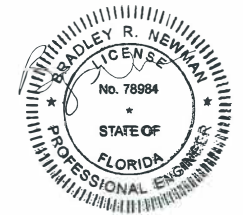
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DRAWN	DSP	<p>7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA</p> <p>CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL</p>	SHEET #	REVISION	
DESIGNED	ARS		<p>NOTES & SPECIFICATIONS</p>	<p>N1</p>	<p>B</p>
REVISED	NB+C				
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		<p>RAYCAP #CC20-00029W-05R0</p>	<p>DATE: 06/05/2025</p>		
<p>TOLERANCES:</p> <p>DECIMAL: FRACTIONAL:</p> <p>X ± 0.1 XX ± 1/16</p> <p>.XX ± 0.03</p> <p>.XXX ± 0.01</p> <p>ANGLES ± 5°</p>					
<p>ALL BENDING TOLERANCES: ± T₀</p> <p>THIRD ANGLE PROJECTION</p>		<p>PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP, INC. ALL RIGHTS RESERVED</p>			

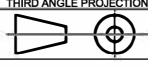


REVISION TABLE

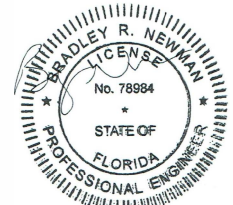
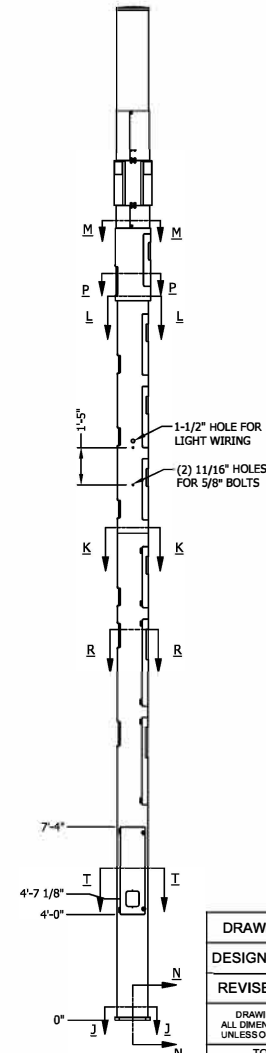
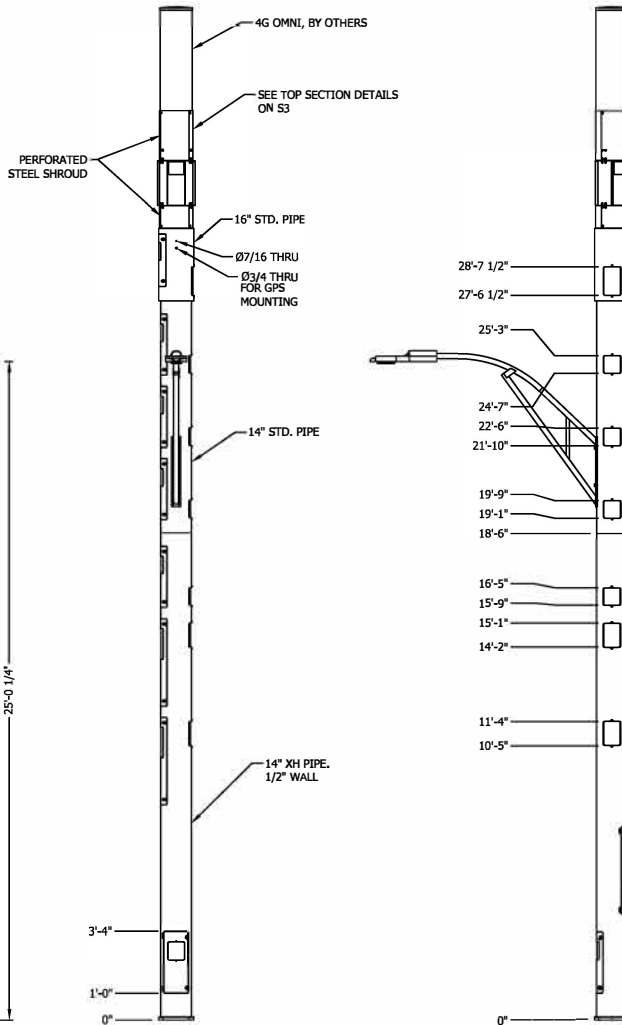
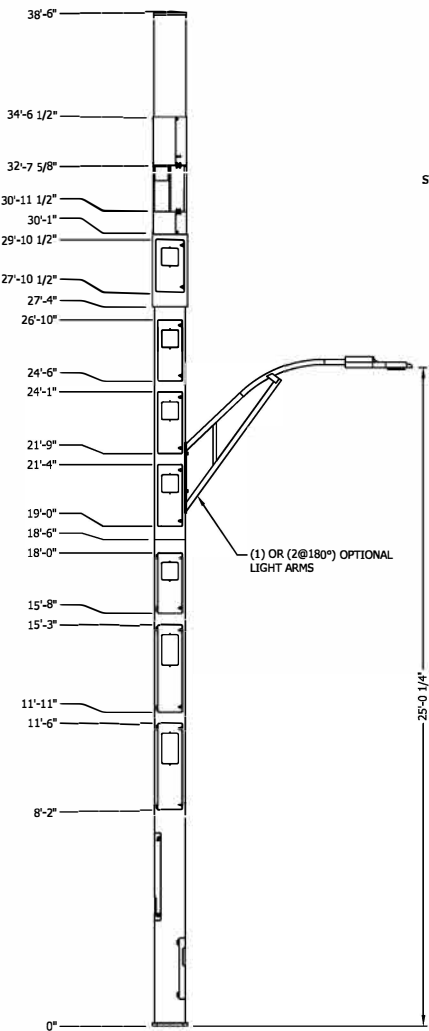
REVISION	DESIGNER	DATE	SCOPE OF REVISION
A	NB+C	02/12/2020	FINAL ENGINEERING
B	NB+C	06/05/2025	REVISED FINAL ENGINEERING



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DRAWN	DSP	Raycap 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA
DESIGNED	ARS	
REVISED	NB+C	
<small>DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.</small> <small>TOLERANCES:</small> <small>DECIMAL: .X ±0.1 .XX ±0.03 .XXX ±0.01</small> <small>FRACTIONAL: XX ± 1/16</small> <small>ANGLES ±.5°</small> <small>ALL BENDING TOLERANCES: ± 1.0°</small>		CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL
<small>THIRD ANGLE PROJECTION</small> 		NOTES & SPECIFICATIONS
<small>RAYCAP #CC20-00029W-05R0</small>		<small>SHEET #</small> <div style="font-size: 24pt; font-weight: bold;">N2</div>
<small>DATE: 06/05/2025</small>		<small>REVISION</small> <div style="font-size: 24pt; font-weight: bold;">B</div>
<small>PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP INC. ALL RIGHTS RESERVED</small>		

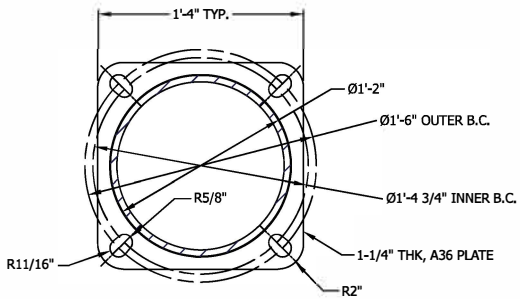




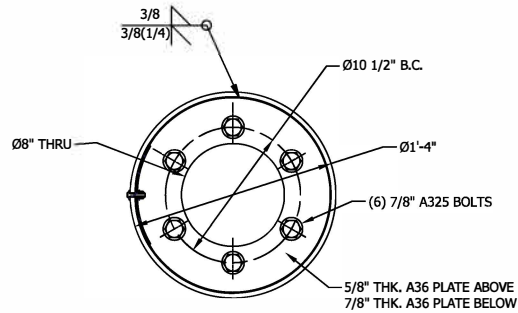
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DRAWN	DSP	Raycap 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA	CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL	SHEET #	REVISION	
DESIGNED	ARS			ASSEMBLY - ELEVATIONS	S1	B
REVISED	NB+C					
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.		RAYCAP #CC20-00029W-05R0		DATE: 06/05/2025		
TOLERANCES: DECIMAL: .X ± 0.1 .XX ± 0.03 .XXX ± 0.01 ANGLES ± 5°		THIRD ANGLE PROJECTION		PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP INC. ALL RIGHTS RESERVED.		

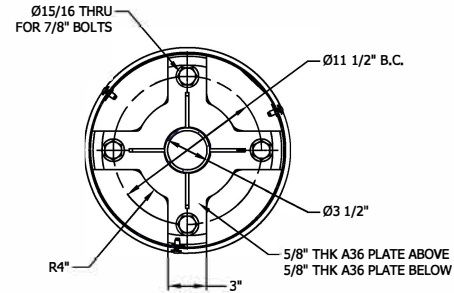
NB+C
TOTALLY COMMITTED.
NB+C ENGINEERING SERVICES, LLC.
6000 MARSHALLEE DRIVE, SUITE 300
DUNEDIN, FL 33511
407-737-7990



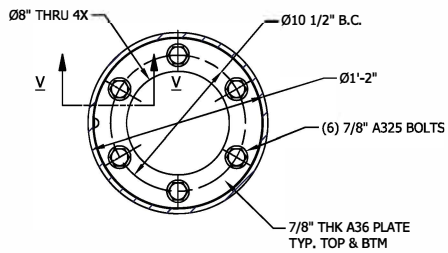
SECTION J-J
BASE PLATE
0'0" AGL



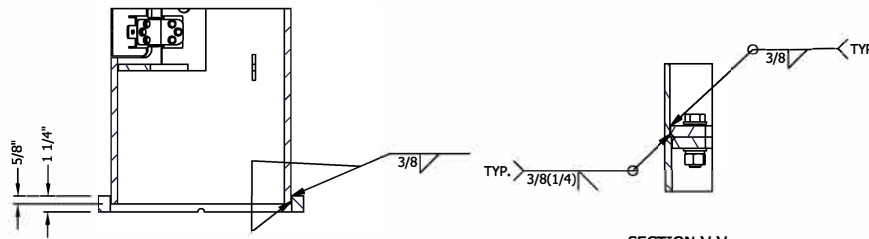
SECTION L-L
INTERNAL FLANGE
27'4" AGL



SECTION M-M
INTERNAL FLANGE 30'1" AGL



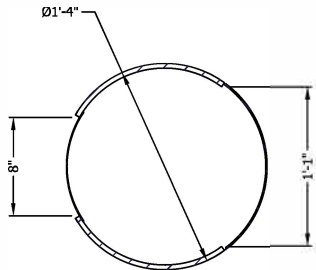
SECTION K-K
INTERNAL FLANGE
18'6" AGL



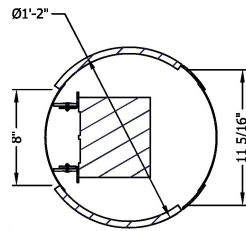
SECTION N-N
BASE PLATE WELD DETAIL

SECTION V-V
INTERNAL FLANGE
WELD DETAIL, TYP.

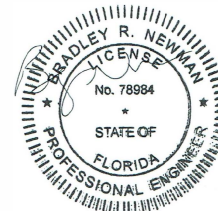
SECTION T-T
PIPE OPENING REINFORCEMENT
TYP. BOTTOM (3) DOORS



SECTION P-P
PIPE OPENING DETAIL
TYP. (1) LOCATION



SECTION R-R
PIPE OPENING DETAIL

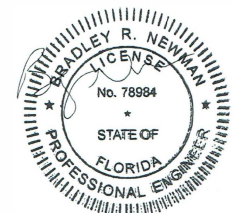
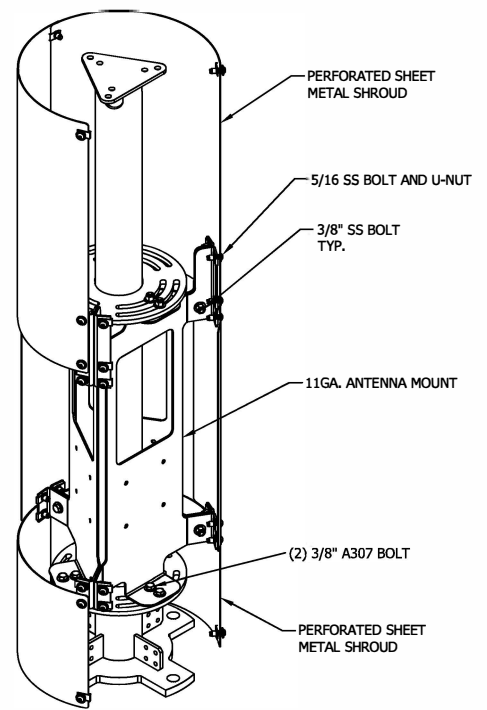
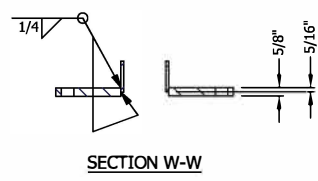
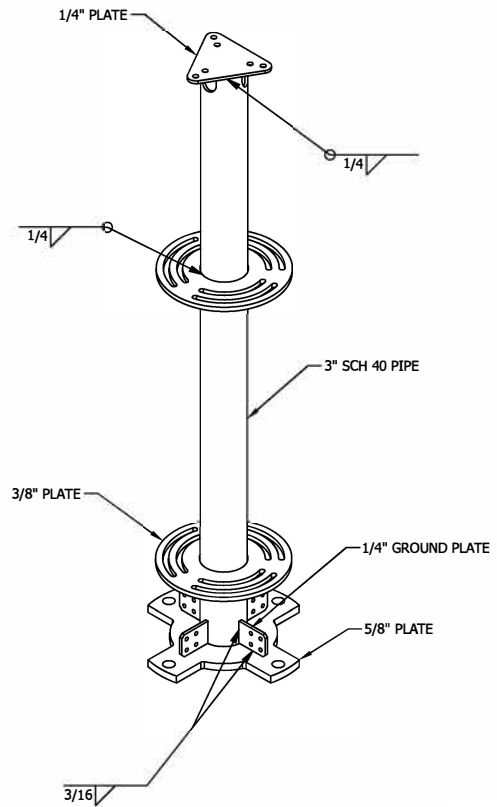
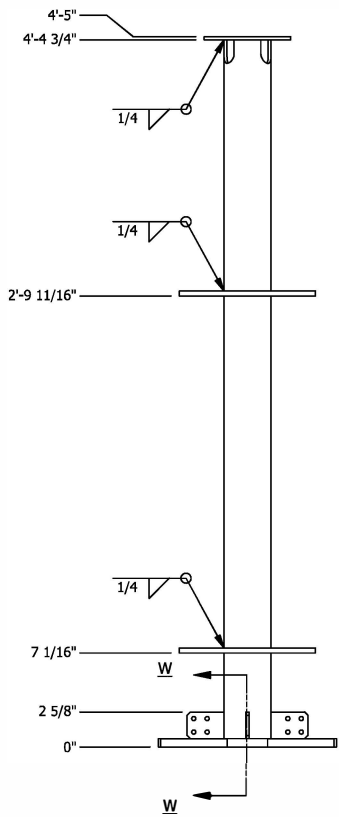
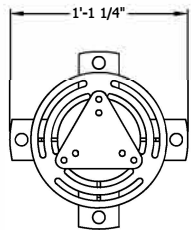


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NB+C ENGINEERING SERVICES, LLC.
6051 MARSHALEE DRIVE, SUITE 300
ELKSPRO, MD 21115
410-712-7022

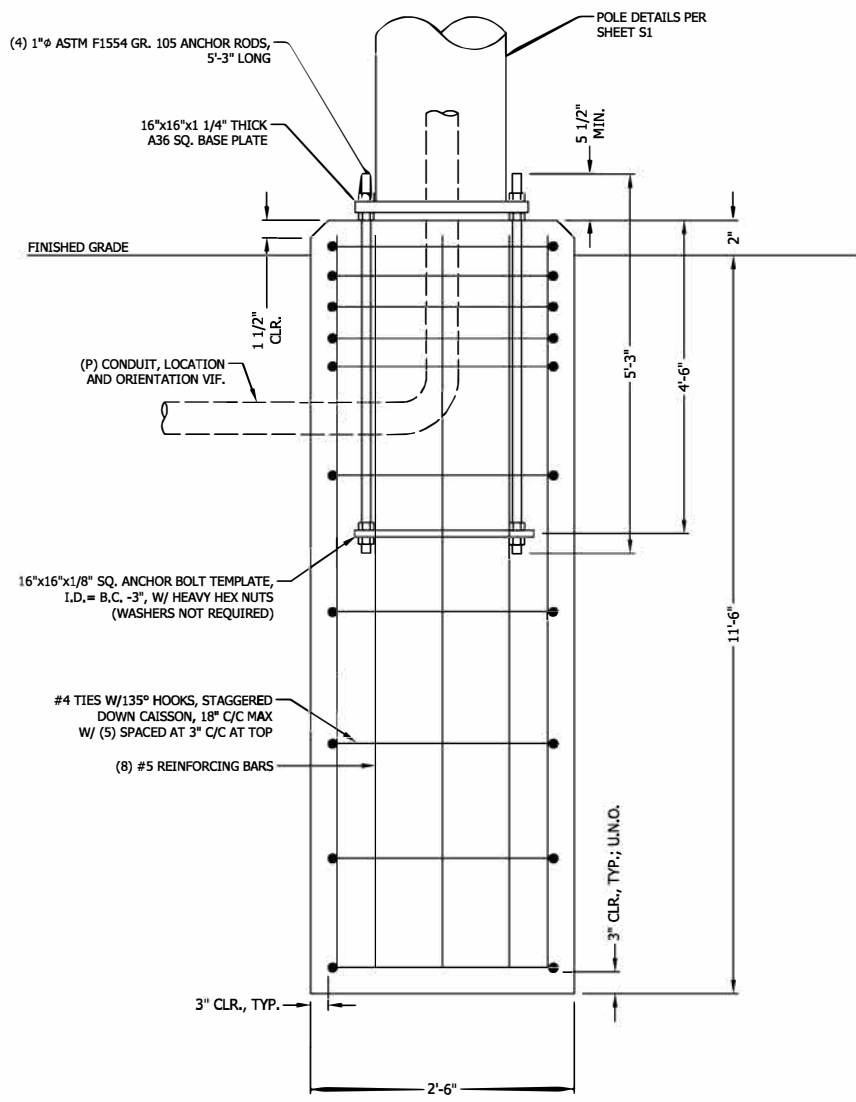
DRAWN	DSP	Raycap 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA	CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL	
DESIGNED	ARS			
REVISED	NB+C			
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED		ASSEMBLY - ELEVATIONS	SHEET #	REVISION
TOLERANCES: DECIMAL: X ± 0.1 FRACTIONAL: XX ± 1/16 .XX ± 0.03 .XXX ± 0.01 ANGLES ± 5°			RAYCAP #CC20-00029W-05R0	DATE: 06/05/2025
ALL BENDING TOLERANCES: ± T.O.		PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS DRAWING SET IS PROPRIETARY & CONFIDENTIAL BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO RAYCAP, INC. IS STRICTLY PROHIBITED. COPYRIGHT 2025 RAYCAP INC. ALL RIGHTS RESERVED.		



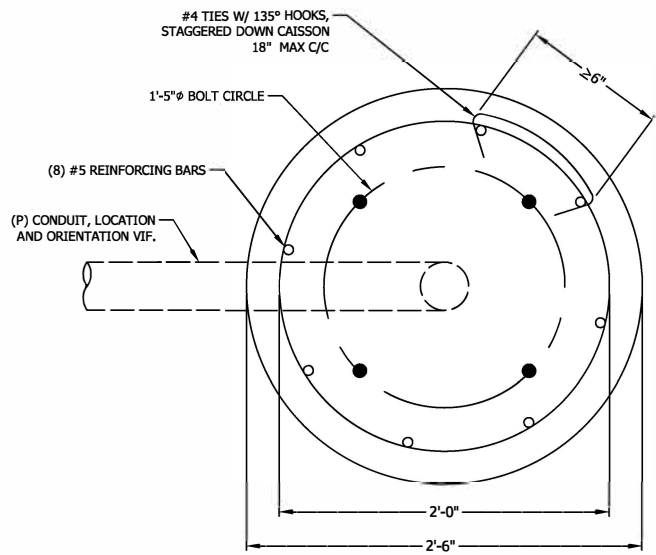
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REVISED	NB+C		
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TOLERANCES:			
DECIMALS:	FRACTIONAL:		
.X ± 0.1	XX ± 1/16		
.XX ± 0.03			
.XXX ± 0.01			
ANGLES ± .5°			
ALL BENDING TOLERANCES: ± 1.0°			
THIRD ANGLE PROJECTION			
RAYCAP #CC20-00029W-05R0		SHEET #	REVISION
ASSEMBLY - ELEVATIONS		S3	B
DATE: 06/05/2025			
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ELEVATION VIEW

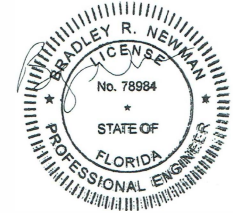


PLAN VIEW

- FOUNDATION NOTES:**
1. ALL CONCRETE SHALL USE TYPE II PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE SHALL BE AIR ENTRAINED (6± 1.5%) CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATION OF 0.50. CONCRETE SHALL HAVE A SLUMP OF 5" (±1). ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318-14. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS" LATEST EDITION.
 2. REINFORCING STEEL SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A-615, GRADE 60. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315, LATEST EDITION, UNLESS DETAILED OTHERWISE IN THIS DRAWING.
 3. INSTALLATION OF DRILLED PIERS SHALL BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER FIRM. GEOTECHNICAL ENGINEER SHALL PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORD PURPOSES.
 4. ANCHOR RODS SHALL CONFORM W/ ATSM F1554 GR. 105 GALVANIZED U.N.O.

135° HOOK TIES TO ENGAGE VERTICAL REBAR

135° HOOK TO BE 3" MINIMUM LENGTH



This item has been electronically signed and sealed by Bradley Newman, PE, on 06/11/2025. Printed copies are not considered signed and sealed and the signature must be verified on any electronic copies.

DRAWN	DSP	Raycap 7555-A PALMETTO COMMERCE PARKWAY NORTH CHARLESTON, SC 29420 USA	CROWN CASTLE MIAMI 14 INCH POLE III MIAMI, FL	SHEET #	REVISION
DESIGNED	ARS				S4
REVISED	NB+C			RAYCAP #CC20-00029W-05R0	DATE: 06/05/2025
DRAWING NOT TO SCALE. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.		FOUNDATION DETAILS			
TOLERANCES: DECIMAL: X ± 0.1 .XX ± 0.03 .XXX ± 0.01 ANGLES ± 5° ALL BENDING TOLERANCES: ± 1.0° THIRD ANGLE PROJECTION					
NB+C TOTALLY COMMITTED. NB+C ENGINEERING SERVICES, LLC. <small>606 MARSHALEE DRIVE, SUITE 200 ELURAGE, MD 21035 410/713-7062</small>					
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