



VERIZON SITE NAME  
**COASTLAND CENTER MALL W SC**  
 VERIZON SITE NUMBER  
**#15101987**

RIGHT-OF-WAY OF MANDARIN ROAD JUST  
 NORTH OF ORCHID DRIVE  
 NAPLES, FLORIDA 34102  
 (COLLIER COUNTY)

INSTALLATION OF PROPOSED SMALL CELL  
 EQUIPMENT TO PROPOSED METAL POLE

REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED
1	06/06/23	REVISED PER COMMENTS

PROJECT NO.:	19-6713
DRAWN BY:	O. RIVERA
PROJECT MANAGER:	M. MURPHY
CHECKED BY:	M. MURPHY

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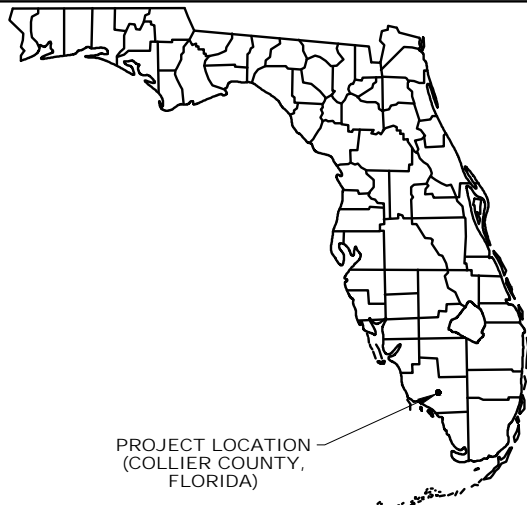


12979 TELECOM PARKWAY N  
 TEMPLE TERRACE, FLORIDA 33637  
 (813) 615-1422  
 CERTIFICATE OF AUTHORIZATION 33693

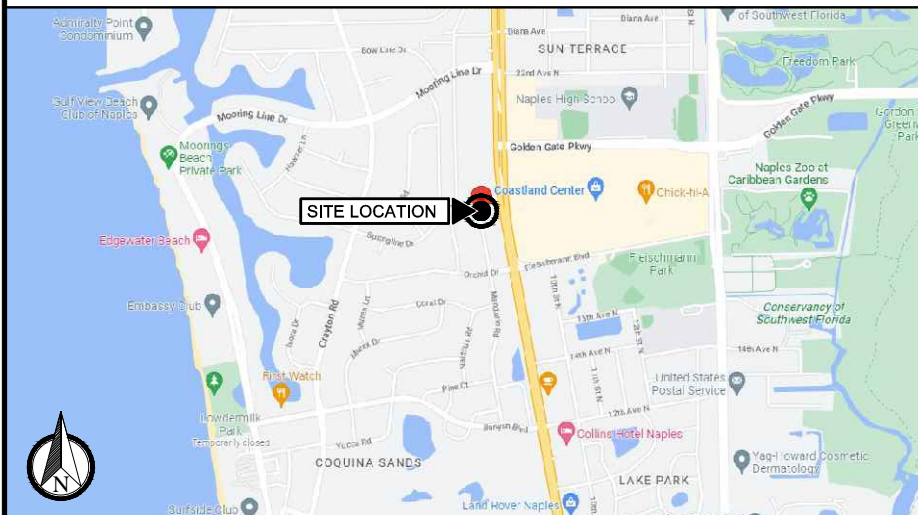


7701 TELECOM PARKWAY EAST  
 TEMPLE TERRACE, FLORIDA 33637

LOCAL MAP



VICINITY MAP



DRIVING DIRECTIONS

FROM THE VERIZON OFFICE IN TAMPA, GET ON I-75 S FROM E TELECOM PKWY AND E FLETCHER AVE. FOLLOW I-75 S TO COUNTY RD 886/GOLDEN GATE PKWY IN COLLIER COUNTY. TAKE EXIT 105 FROM I-75 S. CONTINUE ON COUNTY RD 886/GOLDEN GATE PKWY. DRIVE TO MANDARIN RD IN NAPLES. DESTINATION WILL BE ON THE RIGHT-HAND SIDE OF THE ROAD.

PROPERTY SUMMARY

PARCEL #: N/A (R.O.W.)  
 LATITUDE: 26° 10' 09.29" N (NAD83)  
 26.169247 N  
 LONGITUDE: 81° 48' 01.28" W (NAD83)  
 -81.800356 W  
 JURISDICTION: COLLIER COUNTY

**SCOPE OF WORK**

INSTALLATION OF PROPOSED SMALL CELL EQUIPMENT TO PROPOSED METAL POLE

A. INSTALLATION OF 1 METAL POLE  
 B. INSTALLATION OF 1 ANTENNA  
 C. INSTALLATION OF 1 ENCLOSURE CABINET

CONTACTS

**APPLICANT:**  
 VERIZON WIRELESS  
 7701 TELECOM PARKWAY EAST  
 TEMPLE TERRACE, FLORIDA 33637  
 (813) 632-5900

**SMW ENGINEERING GROUP, INC. ARCHITECT/ENGINEER:**  
 12979 TELECOM PARKWAY N  
 TEMPLE TERRACE, FLORIDA 33637  
 MIKE MURPHY (813) 781-4181

**POLE OWNER:**  
 VERIZON WIRELESS  
 7701 TELECOM PARKWAY EAST  
 TEMPLE TERRACE, FLORIDA 33637  
 (813) 632-5900

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APPLICABLE CODES

THE CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) OVER THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE: FLORIDA BUILDING CODE (FBC), 7TH EDITION (2020).  
 NATIONAL ELECTRICAL CODE: 2017 EDITION.  
 ELECTRICAL CODE: NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70  
 MECHANICAL CODE: MECHANICAL CODE, 7TH EDITION.  
 FIRE CODE: FLORIDA FIRE PREVENTION CODE, 7TH EDITION.  
 LIFE SAFETY CODE: NFPA-101-2018  
 2017 UTILITY ACCOMMODATION MANUAL (6-30-2017)  
 DEPARTMENT OF TRANSPORTATION ADA STANDARDS FOR TRANSPORTATION FACILITIES

ASCE 7 - 16: ULTIMATE WIND SPEED = 165 MPH  
 RISK CATEGORY = II  
 EXPOSURE = C

ANSI/ TIA-222-H  
 STRUCTURE CLASS = II  
 TOPOGRAPHIC CATEGORY = 1

THE CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS; AMERICAN CONCRETE INSTITUTE (ACI) 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE; AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 14th EDITION; TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; TIA-607-B, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM; IEEE 1100 (2005) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT.

IEEE C62.41, GUIDE ON THE SURGE ENVIRONMENT IN LOW-VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE").

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS; TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS; ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION.

CONSTRUCTION SCHEDULE

CONSTRUCTION TO START WITHIN 90 DAYS OF PERMIT APPROVAL  
 CONTRACTOR TO FINALIZE WITHIN 270 DAYS OF PERMIT APPROVAL  
 CONSTRUCTION SET TO BEGIN TENTATIVELY FEBRUARY 2023.

APPROVALS

PROPERTY OWNER \_\_\_\_\_  
 RF ENGINEER \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_  
 SITE ACQUISITION \_\_\_\_\_  
 ZONING \_\_\_\_\_  
 NETWORK \_\_\_\_\_  
 OPERATIONS \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_

COASTLAND CENTER MALL W SC  
 #15101987

RIGHT-OF-WAY OF MANDARIN ROAD JUST NORTH OF ORCHID DRIVE  
 NAPLES, FLORIDA 34102  
 (COLLIER COUNTY)

SHEET NAME

TITLE SHEET

SHEET NUMBER

T1

1. FOR THE PURPOSES OF THESE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:

OWNER - VERIZON WIRELESS  
ENGINEER - SMW ENGINEERING GROUP, INC.  
CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)

- 2. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO (1) VERIFY ALL EXISTING CONDITIONS, (2) CONFIRM WHETHER ALL DIMENSIONS ARE AS SHOWN ON THE PLANS AND (3) CONFIRM WHETHER THE WORK MAY BE ACCOMPLISHED AS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER.
- 3. A 9-FOOT HORIZONTAL CLEARANCE DISTANCE SHALL BE MAINTAINED FROM ALL EXISTING POWER LINES.
- 4. THE CONTRACTOR'S USE OF A CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE OF THE CONSTRUCTION START DATE.
- 5. LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND TEMPORARY POWER SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN. LABOR AND MATERIALS SHALL BE FURNISHED AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL ELEMENTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS.
- 6. FOR TASKS REQUIRED TO BE PERFORMED BUT NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOT START WORK ON SUCH TASKS WITHOUT HAVING RECEIVED WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER TO PROCEED.
- 7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS MAY BE MODIFIED AS REQUIRED BY ACTUAL FIELD CONDITIONS. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER AND THE CONSTRUCTION MANAGER.
- 8. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL DELIVER SUCH DOCUMENTS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- 9. THE CONTRACTOR'S OPERATIONS SHALL BE CONFINED TO AREAS OF NEW CONSTRUCTION.
- 10. ALL NECESSARY PROVISIONS SHALL BE MADE TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME RESULTING FROM THE CONSTRUCTION WORK. ALL DISTURBED AND DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
- 11. THE FOLLOWING CLEANUP TASKS SHALL BE PERFORMED AS FOLLOWS: (1) ON A DAILY BASIS, KEEP THE GENERAL AREA CLEAN AND HAZARD FREE, REMOVING ALL WASTE, DEBRIS AND TRASH FROM THE SITE AND DISPOSING OF SAME IN A LEGAL MANNER. (2) UPON COMPLETION, LEAVE THE PREMISES IN A CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- 12. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S RECOMMENDATIONS EXCEPT WHERE IT IS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 13. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AS WELL AS LOCAL AND STATE CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 14. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AT ALL TIMES, USING THE BEST SKILLS AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK, INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE OWNER'S AUTHORIZED REPRESENTATIVE.
- 15. WITHIN TEN (10) WORKING DAYS AFTER PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS, SWEEP TEST, CYLINDER TESTS, LIEN RELEASES, AND OTHER CLOSEOUT DOCUMENTATION AS REQUIRED BY THE OWNER. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO THE OWNER'S ACCEPTANCE.
- 16. THE PROPOSED INSTALLATION WILL NOT:  
INTERFERE WITH THE SAFE OPERATION OF TRAFFIC CONTROL EQUIPMENT;  
INTERFERE WITH SIGHT LINES OR CLEAR ZONES FOR TRANSPORTATION, PEDESTRIANS, OR PUBLIC SAFETY PURPOSES;  
INTERFERE WITH COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT OR SIMILAR FEDERAL OR STATE STANDARDS  
VERIZON WIRELESS MEETS ALL FCC'S PLANNING IN REGARDS TO FREQUENCY AND POWER ASSIGNMENTS. THIS TAKES INTO ACCOUNT PUBLIC SAFETY AS WELL AS COMMERCIAL DEPLOYMENTS OF WIRELESS SYSTEMS. IN DOING SO, ISSUES WITH INTERFERENCE ARE VERY RARE BY DESIGN AND VERIZON WIRELESS ADHERES, TO ESTABLISHED FCC PROCEDURES SHOULD ANYTHING ARISE.

- 1. THE APPROPRIATE UTILITY LOCATING SERVICES SHALL BE CONTACTED PRIOR TO THE START OF CONSTRUCTION IN ORDER TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.
- 2. THE INSTALLATION OF NEW UTILITIES SHALL BE COORDINATED WITH LOCAL AUTHORITIES.
- 3. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SUCH UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. EXTREME CAUTION SHALL BE USED WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
- 4. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 5. ALL EXISTING INACTIVE SEWER, WATER, STORM WATER, GAS, ELECTRIC AND OTHER UTILITIES THAT INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE LANDLORD AND/OR LOCAL UTILITIES.
- 6. DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION SHALL BE MINIMIZED.
- 7. ANY AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE. SUCH GRADING SHALL CAUSE SURFACE WATER TO FLOW AWAY FROM ANY EQUIPMENT SHELTER AND TOWER AREAS AND THE SOIL SHALL BE STABILIZED TO PREVENT EROSION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 8. THE SUB-GRADE SHALL BE COMPACTED AND BROUGHT TO A UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 9. BACKFILL SHALL CONSIST OF CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WILL BE ALLOWED. CLEAN SAND FILL SHALL BE FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL.
- 10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL.
- 11. SITE SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR SUCH SIGNAGE AS MAY BE CONTAINED IN THESE DRAWINGS.

SITE WORK NOTES

- 1. MATERIAL:
  - A. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITION OF THE AISC "STEEL CONSTRUCTION MANUAL".
  - B. ALL STRUCTURAL STEEL WF BEAMS SHALL BE ASTM A992 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
  - C. ALL STRUCTURAL PLATES, ANGLES, AND CHANNELS SHALL BE ASTM A36 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
  - D. ALL HSS/TS MEMBERS SHALL BE ASTM A500 GRADE B (Fy=46ksi), AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
  - E. ALL STRUCTURAL PIPE MEMBERS SHALL BE ASTM A500 GRADE B (Fy=42ksi), AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
  - F. ALL NON-STRUCTURAL PIPE MEMBERS SHALL BE ASTM A53 GRADE B, AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
- 2. DESIGN, FABRICATION, AND CONSTRUCTION OF ALL CONNECTIONS SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL.
- 3. WELDING:
  - A. ALL WELDS, WELDERS, AND WELD INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AWS D 1.1, LATEST REVISION.
  - B. ALL WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES.
  - C. ALL STEEL SHALL BE SPRAY GALVANIZED AFTER WELDING.
- 4. ALL BOLTS SHALL BE GALVANIZED 3/4" DIAMETER, A325-N, UNLESS NOTED OTHERWISE AND TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC. SECURE NUT WITH LOCKING WASHER.
- 5. ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
- 6. THE CONTRACTOR/STEEL FABRICATOR SHALL LOCATE ANY REINFORCEMENT IN THE STRUCTURAL MEMBERS IN SUCH A MANNER SO THAT THERE WILL NOT BE CONFLICT WITH THE REINFORCEMENT WHEN INSTALLING ANCHORS. THE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTION.
- 7. THE CONTRACTOR/STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION.
- 8. ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/8 INCH TOLERANCE. STRUCTURAL STEEL SHALL NOT BE FLAME CUT UNDER ANY CIRCUMSTANCES WITHOUT APPROVAL OF THE ENGINEER.
- 9. THE CONTRACTOR/STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES AS REQUIRED TO PREVENT RAINWATER INTRUSION.
- 10. THE CONTRACTOR/STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION. AT THE CONTRACTOR'S OPTION, FIELD SPLICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPLICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE ALL DETAILS FOR THE PROPOSED FIELD SPLICES.
- 11. AT THE CONTRACTOR'S OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS.
- 12. 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 AS WORK OF OTHERS' SECTIONS.

REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED

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DRAWN BY: O. RIVERA  
PROJECT MANAGER: M. MURPHY  
CHECKED BY: M. MURPHY

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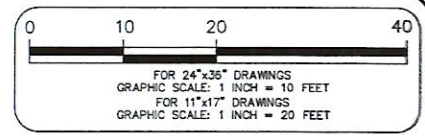
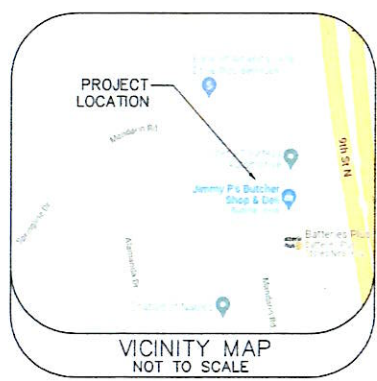
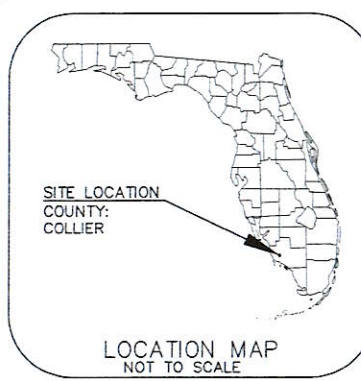
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THIS DOCUMENT HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY JEREMY D. SHARIT, PE (#75137) USING A DIGITAL SIGNATURE IN ACCORDANCE WITH F.A.C. 61G15-23.004, WITH A DIGITAL CERTIFICATE ISSUED BY ENTRUST, INC. PLEASE REFERENCE SHEET T1 TO VIEW THE SIGNATURE AND VERIFY ITS PROPERTIES. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

COASTLAND CENTER  
MALL W SC  
#15101987  
RIGHT-OF-WAY OF MANDARIN  
ROAD JUST NORTH OF ORCHID  
DRIVE  
NAPLES, FLORIDA 34102  
(COLLIER COUNTY)

SHEET NAME
NOTES
SHEET NUMBER
N1

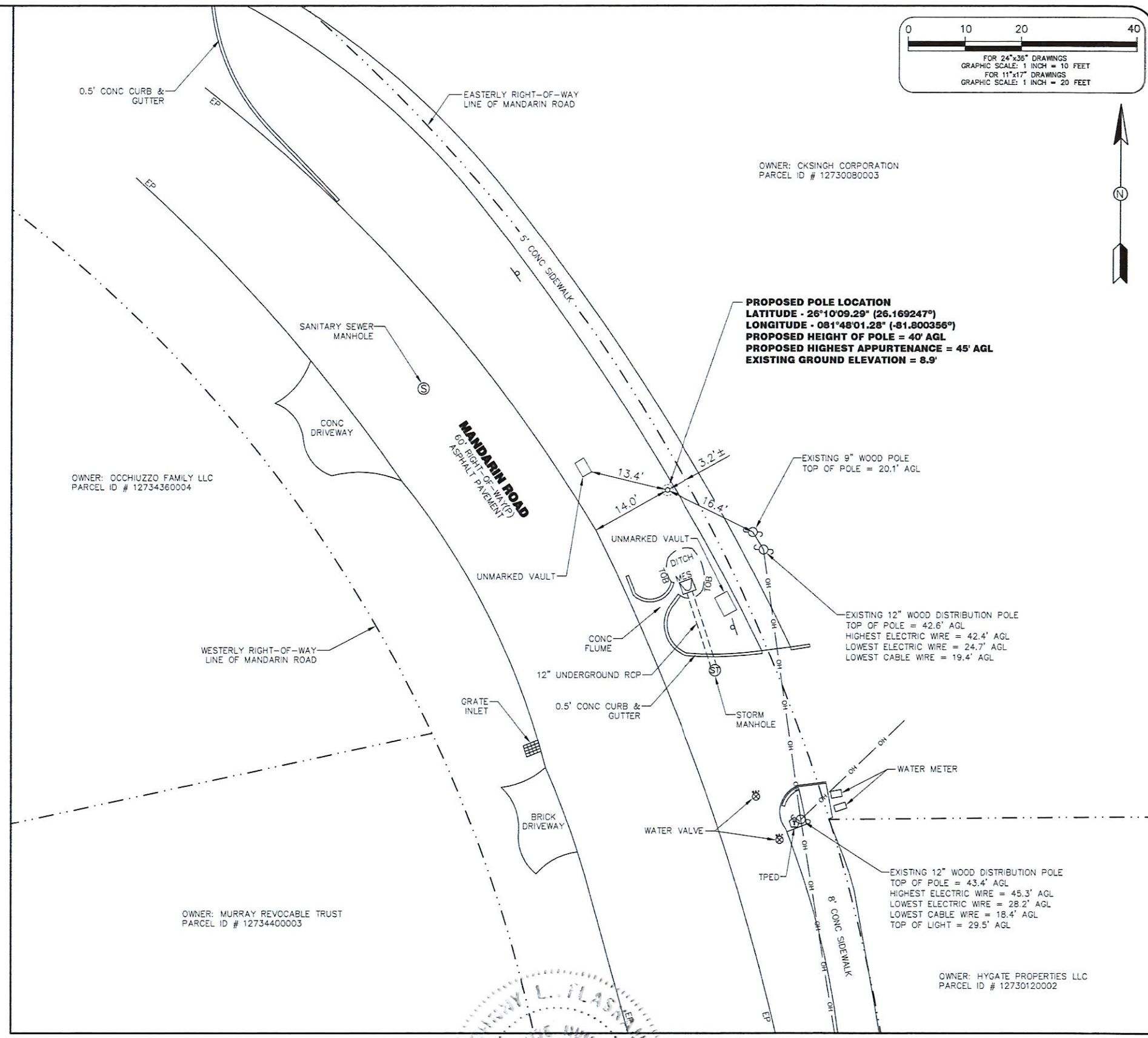


**SURVEYOR'S NOTES:**

1. THIS SURVEY WAS PERFORMED ON THE GROUND ON DECEMBER 14, 2022 UNDER THE SUPERVISION OF A FLORIDA PROFESSIONAL SURVEYOR & MAPPER.
2. THE SUBJECT PROJECT AREA APPEARS TO BE WITHIN ZONE "X", MAP NUMBER 12021C0391H, COMMUNITY NUMBER 125130, PANEL NUMBER 0391, SUFFIX H WITH AN EFFECTIVE DATE OF 05/16/2012.
3. ALL DIMENSIONS SHOWN ARE IN FEET AND DECIMAL PARTS THEREOF.
4. THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
5. NO UTILITIES (UNDERGROUND OR ABOVE-GROUND) WERE LOCATED EXCEPT AS SHOWN HEREON.
6. NO SEARCH FOR VISIBLE EVIDENCE OF EXISTING OR FORMER AREAS OF FACILITIES WHICH MAY HAVE INVOLVED THE USE OF STORAGE OF HAZARDOUS MATERIALS WAS MADE.
7. NO WETLAND AREAS OR JURISDICTIONAL WETLANDS WERE LOCATED OR ARE SHOWN ON THIS SURVEY.
8. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT; NO ABSTRACT EXAMINATION IS IMPLIED.
9. INFORMATION SHOWN HEREON MAY BE SUBJECT TO EASEMENTS, RESTRICTIONS AND RESERVATIONS OF RECORD.
10. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID UNLESS SIGNED AND SEALED WITH AN ORIGINAL RAISED SURVEYOR'S SEAL.
11. ADDITIONS OR DELETIONS TO THIS SURVEY MAP BY ANY OTHER THAN THE SIGNING SURVEYOR ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR OF RECORD.
12. THIS SURVEY WAS CREATED TO SHOW THE PROPOSED LOCATION OF A POLE STRUCTURE ALONG WITH DEPICTING THE RIGHT-OF-WAY LINES OF MANDARIN ROAD, AND TOPOGRAPHIC LOCATION OF IMPROVEMENTS WITHIN AN AREA DETERMINED BY CLIENT TO HELP IN THEIR DESIGN OF A TELECOMMUNICATIONS STRUCTURE.
13. THE SYMBOL SHOWN FOR THE PROPOSED POLE IS SHOWN AS A 10" DIAMETER POLE CENTERED ON A 2' DIAMETER FOUNDATION. ALL DIMENSIONS SHOWN ARE TO THE EDGE OF THE 10" DIAMETER PROPOSED POLE.
14. THIS SURVEY MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1 INCH = 10 FEET FOR 24"x36" DRAWINGS AND 1 INCH = 20 FEET FOR 11"x17" DRAWINGS OR SMALLER.
15. THE COORDINATES SHOWN HEREON ARE IN NORTH AMERICAN DATUM OF 1983, ARE TO THE THIRD ORDER OF ACCURACY, AND IS BASED ON MULTI FREQUENCY GNSS CORRECTIONS OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
16. THE ELEVATIONS SHOWN HEREON ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988, ARE TO THE THIRD ORDER OF ACCURACY, AND IS BASED ON MULTI FREQUENCY GNSS CORRECTIONS OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS FLORIDA PERMANENT REFERENCE NETWORK (FPRN).

**LEGEND:**

- |   |                           |
|---|---------------------------|
| (C) = CALCULATED                                | CONC = CONCRETE           |
| (F) = FIELD                                     | ELEV = ELEVATION          |
| (P) = PLAT                                      | T = TOWNSHIP              |
| (D) = DEED                                      | R = RANGE                 |
| F.D.O.T. = FLORIDA DEPARTMENT OF TRANSPORTATION | O.R. = OFFICIAL RECORDS   |
| NO. = NUMBER                                    | ID = IDENTIFICATION       |
| LB = LICENSED BUSINESS                          | W/ = WITH                 |
| RCP = REINFORCED CONCRETE PIPE                  | MES = MITERED END SECTION |
| CMP = CORRUGATED METAL PIPE                     | CLF = CHAIN LINK FENCE    |
| TPED = TELEPHONE PEDESTAL                       | OH = OVERHEAD LINE        |
| TSV = TRAFFIC SIGNAL VAULT                      | UT = UTILITY POLE         |
| TOB = TOP OF BANK                               | TR = TRAFFIC SIGN         |
| EP = EDGE OF PAVEMENT                           | PT = PALM TREE            |
| AGL = ABOVE GROUND LEVEL                        | ⊙ = MISCELLANEOUS TREE    |



**SPECIFIC PURPOSE SURVEY OF PROPOSED POLE LOCATION AND TOPOGRAPHIC LOCATION OF IMPROVEMENTS**



REVISIONS			
1	CHANGED PROJECT NAME PER CLIENTS REQUEST. NO FIELD WORK WAS PERFORMED AS PART OF THIS REVISION.	JF	3/27/23

PREPARED FOR:

**7701 E. TELECOM PARKWAY  
 TEMPLE TERRACE, FLORIDA 33637**

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

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

DRAWING INFORMATION:

FIELD DATE:	12-14-2022
DRAWN DATE:	12-30-2022
CHECK DATE:	12-30-2022
SEC.-TWP.-RGE.:	28-49S-25E

SITE INFORMATION:

**15101987  
 COASTLAND CENTER MALL W SC**

RIGHT-OF-WAY OF MANDARIN ROAD  
 JUST NORTH OF ORCHID DRIVE  
 NAPLES, FLORIDA 34102

SMW PROJECT NUMBER:	19-6713
SURVEY	SHEET 1 OF 1

FOR 24"x36" DRAWINGS  
GRAPHIC SCALE: 1/8" = 1'-0"  
FOR 11"x17" DRAWINGS  
GRAPHIC SCALE: 1/16" = 1'-0"

**FLOOD NOTE:**  
THE SUBJECT PROJECT AREA APPEARS TO BE WITHIN ZONE "X", MAP NUMBER 12021C0391H, COMMUNITY NUMBER 125130 PANEL NUMBER 0391, SUFFIX H WITH AN EFFECTIVE DATE OF 05/16/2012.

**KEY:**  
 ——— WATER MAIN  
 - - - RECLAIMED WATER LINE  
 - - - SW STORMWATER MAIN  
 - - - SAN SANITARY GRAVITY MAIN

REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED
1	06/06/23	REVISED PER COMMENTS

PROJECT NO.: 19-6713	
DRAWN BY:	O. RIVERA
PROJECT MANAGER:	M. MURPHY
CHECKED BY:	M. MURPHY

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TOGETHER PLANNING A BETTER TOMORROW

12979 TELECOM PARKWAY N  
TEMPLE TERRACE, FLORIDA 33637  
(813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693

7701 TELECOM PARKWAY EAST  
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COASTLAND CENTER MALL W SC  
#15101987

RIGHT-OF-WAY OF MANDARIN ROAD JUST NORTH OF ORCHID DRIVE  
NAPLES, FLORIDA 34102  
(COLLIER COUNTY)

SHEET NAME  
SITE PLAN W/ AERIAL

SHEET NUMBER  
C1



SITE PLAN W/ AERIAL

SCALE AS NOTED 1



16' 0' 8' 16'

FOR 24"x36" DRAWINGS  
GRAPHIC SCALE: 1/8" = 1'-0"  
FOR 11"x17" DRAWINGS  
GRAPHIC SCALE: 1/16" = 1'-0"

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REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED
1	06/06/23	REVISED PER COMMENTS

PROJECT NO.: 19-6713

DRAWN BY: O. RIVERA

PROJECT MANAGER: M. MURPHY

CHECKED BY: M. MURPHY

**KEY:**

W WATER MAIN  
 - - - RECLAIMED WATER LINE  
 SW STORMWATER MAIN  
 SAN SANITARY GRAVITY MAIN

OWNER: CKSINGH CORPORATION  
PARCEL ID # 12730080003

OWNER: OCCHIUZZO FAMILY LLC  
PARCEL ID # 12734360004

OWNER: MURRAY REVOCABLE TRUST  
PARCEL ID # 12734400003

PROPOSED POLE LOCATION  
 LATITUDE - 26°10'09.29" (26.169247°)  
 LONGITUDE - 081°48'01.28" (-81.800356°)  
 PROPOSED HEIGHT OF POLE = 40' AGL  
 PROPOSED HIGHEST APPURTENANCE = 45' AGL  
 EXISTING GROUND ELEVATION = 8.9'

EXISTING 9" WOOD POLE  
TOP OF POLE = 20.1' AGL

EXISTING 12" WOOD DISTRIBUTION POLE  
TOP OF POLE = 42.6' AGL  
HIGHEST ELECTRIC WIRE = 42.4' AGL  
LOWEST ELECTRIC WIRE = 24.7' AGL  
LOWEST CABLE WIRE = 19.4' AGL

EXISTING 12" WOOD DISTRIBUTION POLE  
TOP OF POLE = 43.4' AGL  
HIGHEST ELECTRIC WIRE = 45.3' AGL  
LOWEST ELECTRIC WIRE = 28.2' AGL  
LOWEST CABLE WIRE = 18.4' AGL  
TOP OF LIGHT = 29.5' AGL

OWNER: HYGATE PROPERTIES LLC  
PARCEL ID # 12730120002

**CONSTRUCTION NOTE:**  
ANY CONSTRUCTION AT THE SITE WILL USE BEST MANAGEMENT PRACTICES INCLUDING SOIL EROSION CONTROL MEASURES, AS ALSO REQUIRED BY LOCAL JURISDICTION, AND NOTED ON THE CONSTRUCTION DRAWING.

**NOTES:**  
CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.  
ALL NEW WORK TO BE PERFORMED PER LATEST VERIZON WIRELESS STANDARDS & SPECIFICATIONS.

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**SAN**  
ENGINEERING GROUP, INC.  
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**verizon**

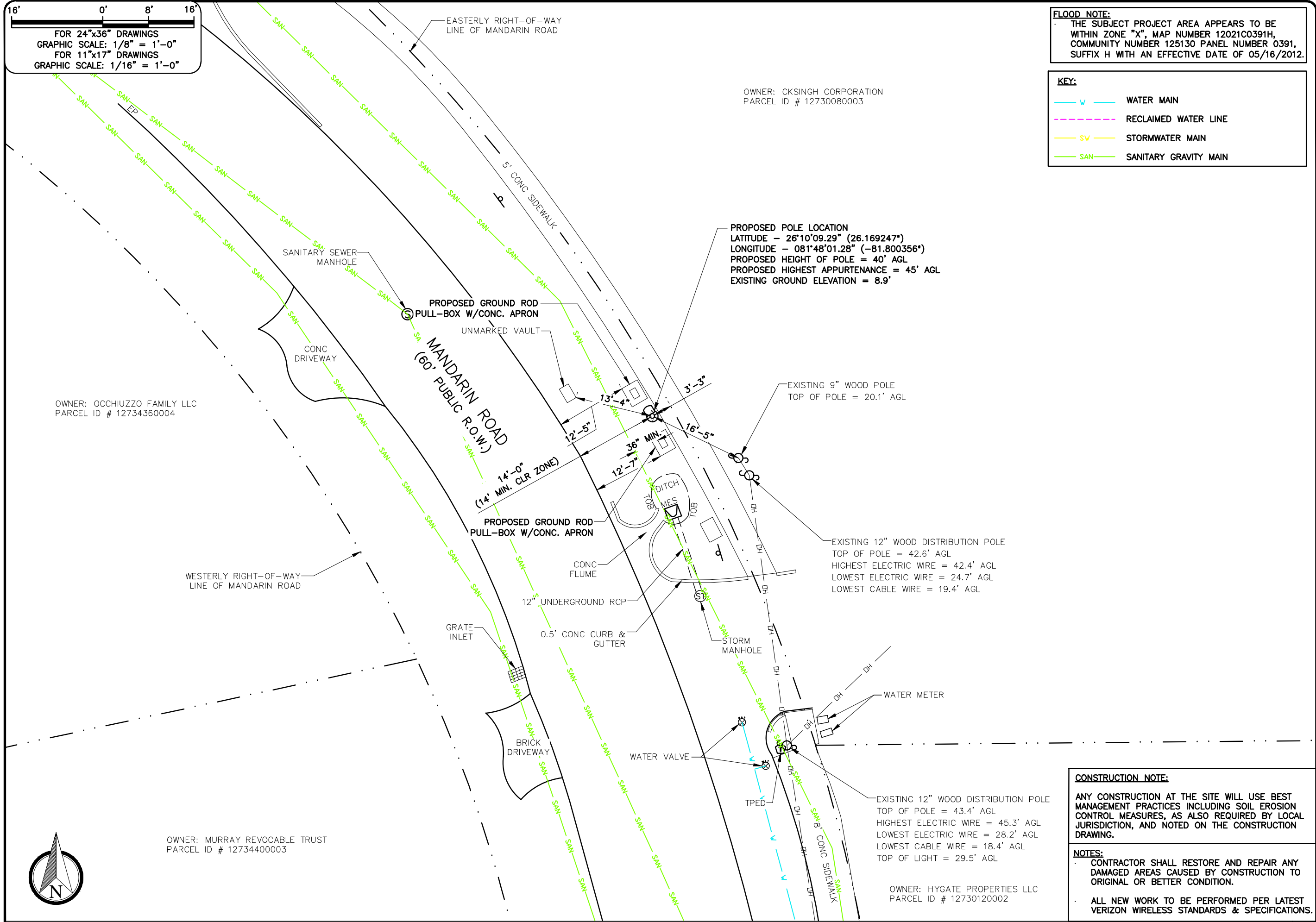
7701 TELECOM PARKWAY EAST  
TEMPLE TERRACE, FLORIDA 33637

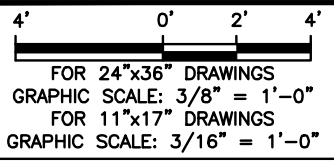
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COASTLAND CENTER MALL W SC  
#15101987

RIGHT-OF-WAY OF MANDARIN ROAD JUST NORTH OF ORCHID DRIVE  
NAPLES, FLORIDA 34102  
(COLLIER COUNTY)

SHEET NAME	
SITE PLAN	
SHEET NUMBER	
C2	





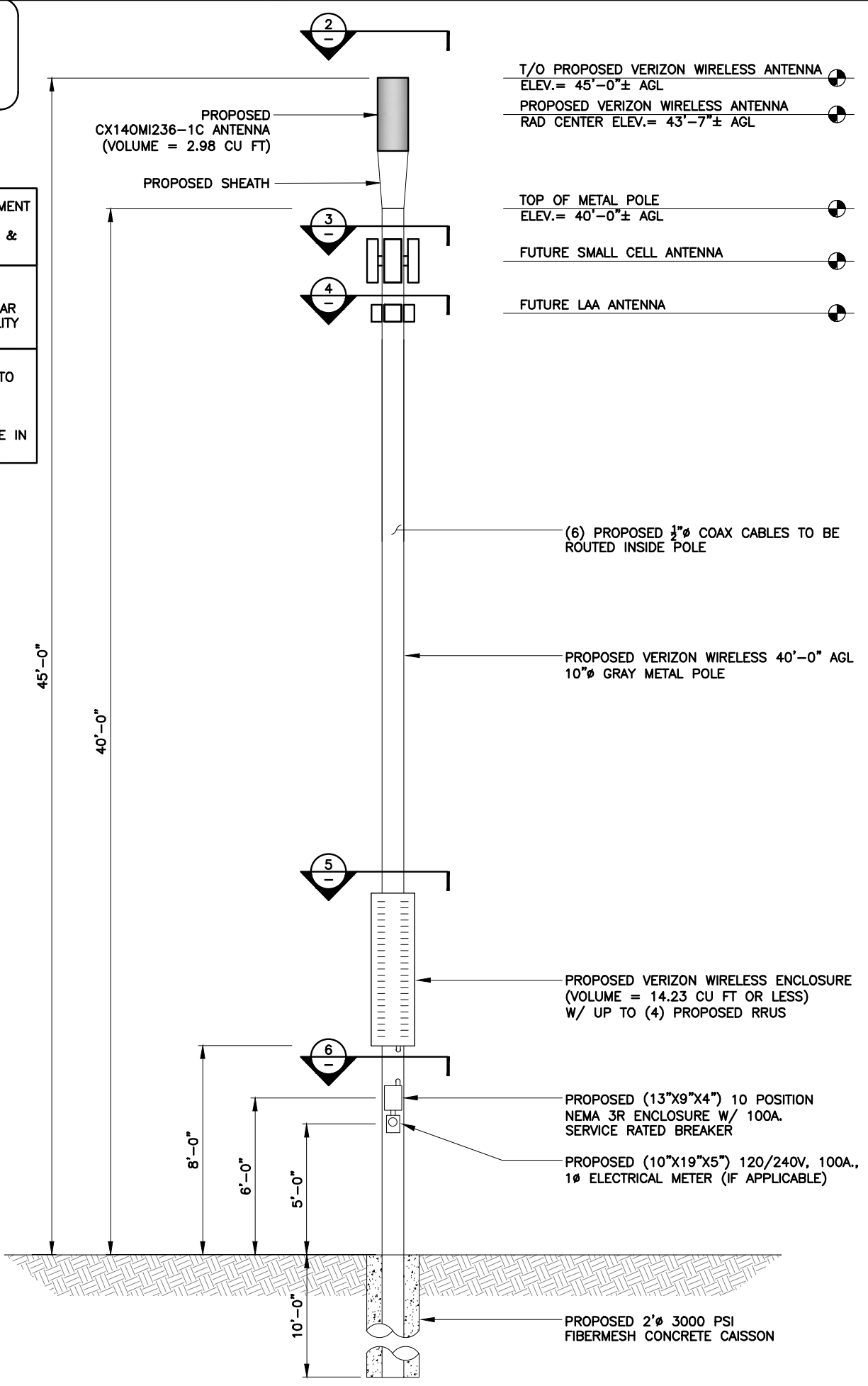
ALL ATTACHED HARDWARE AND EQUIPMENT TO BE GRAY IN COLOR. ANTENNA, SHROUD, EQUIPMENT CABINET, METER & DISCONNECT.

POLE WILL BE PAINTED GRAY AND AS REGULAR MAINTENANCE OCCURS, IF AFFECTED BY WEATHER/WEAR AND TEAR WILL BE REPAINTED TO UPKEEP QUALITY OF AESTHETICS.

ALL ELECTRICAL LINES EXTENDING VERTICALLY FROM PROPOSED METER TO BE ROUTED INSIDE THE POLE IN WATERPROOF FLEXIBLE LIQUID-TIGHT ELECTRICAL CONDUIT, OR APPROVED EQUAL. PROPOSED DISCONNECT TO BE IN A WATER PROTECTED ENCLOSURE.

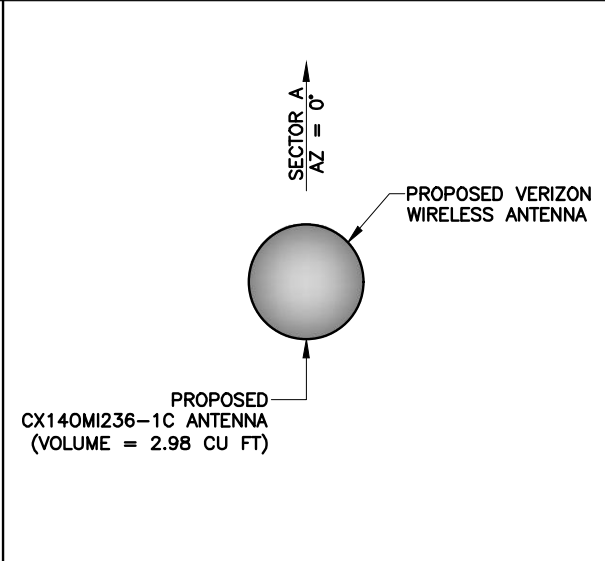
**NOTE:**

- CONTRACTOR TO FIELD VERIFY ANTENNA MOUNT CONFIGURATION AND PROVIDE MOUNTS OR ADDITIONAL HARDWARE IF REQUIRED TO SUPPORT PROPOSED EQUIPMENT.
- ALL EQUIPMENT AND MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS PER FLORIDA BUILDING CODE (7TH EDITION 2020) AND ANSI/TIA-222-H STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS; ULTIMATE WIND SPEED 165 MPH, 3 SECOND GUST.
- AZIMUTH INFO TAKEN FROM VERIZON WIRELESS RF SITE DESIGN DATA.
- PROPOSED POLE INFORMATION BASED ON STRUCTURAL ANALYSIS REPORT COMPLETED BY SMW ENGINEERING GROUP, INC. ENGINEER OF RECORD SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION IF ANY PART OF THE CURRENT DESIGN DOES NOT SUFFICE.

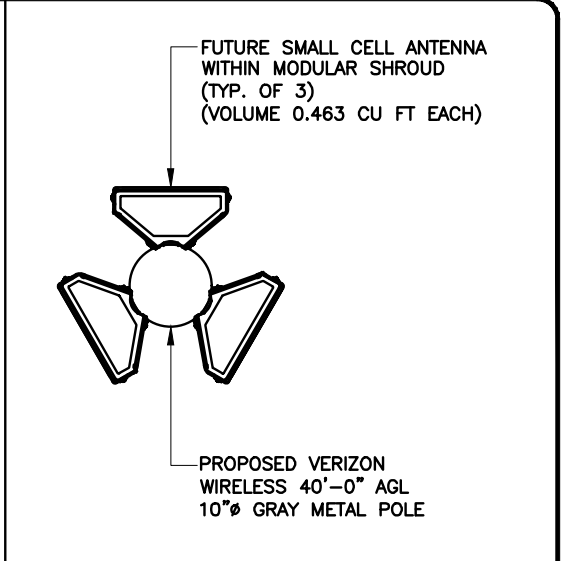


ELEVATION

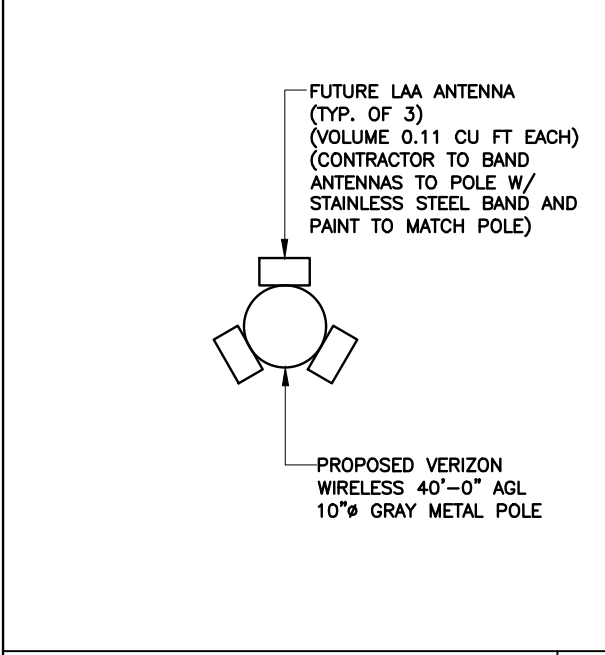
SCALE AS NOTED 1



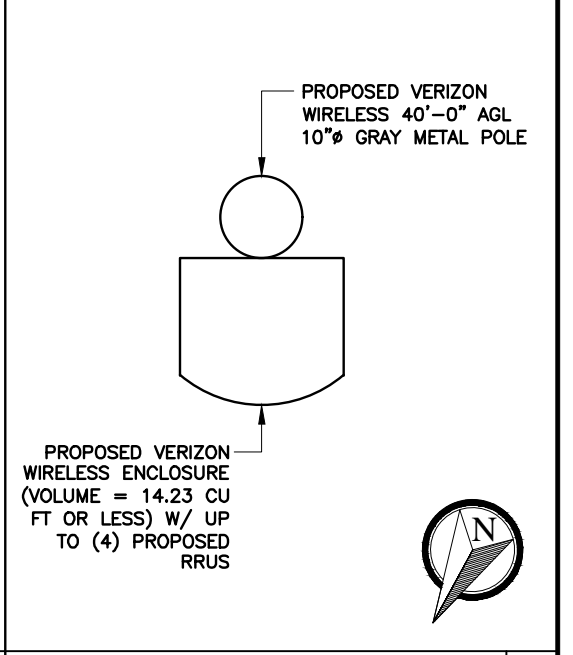
ANTENNA LAYOUT NTS 2



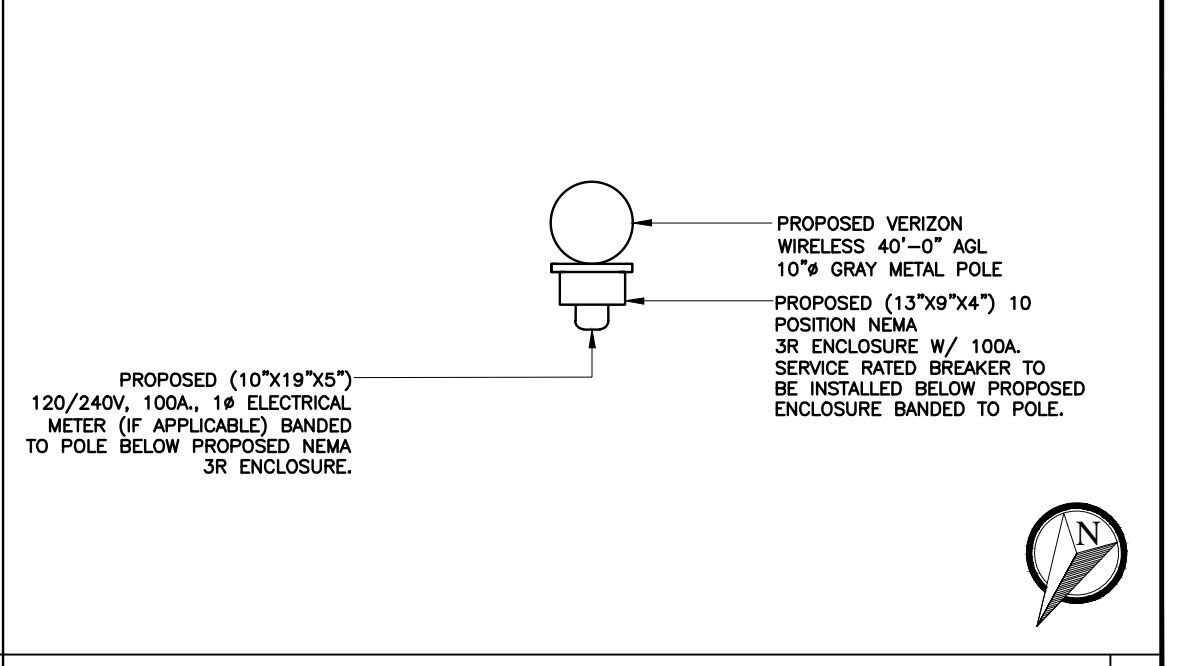
SMALL CELL LAYOUT NTS 3



LAA LAYOUT NTS 4



CABINET LAYOUT NTS 5



EQUIPMENT LAYOUT NTS 6

REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED

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DRAWN BY:	O. RIVERA
PROJECT MANAGER:	M. MURPHY
CHECKED BY:	M. MURPHY

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(813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693

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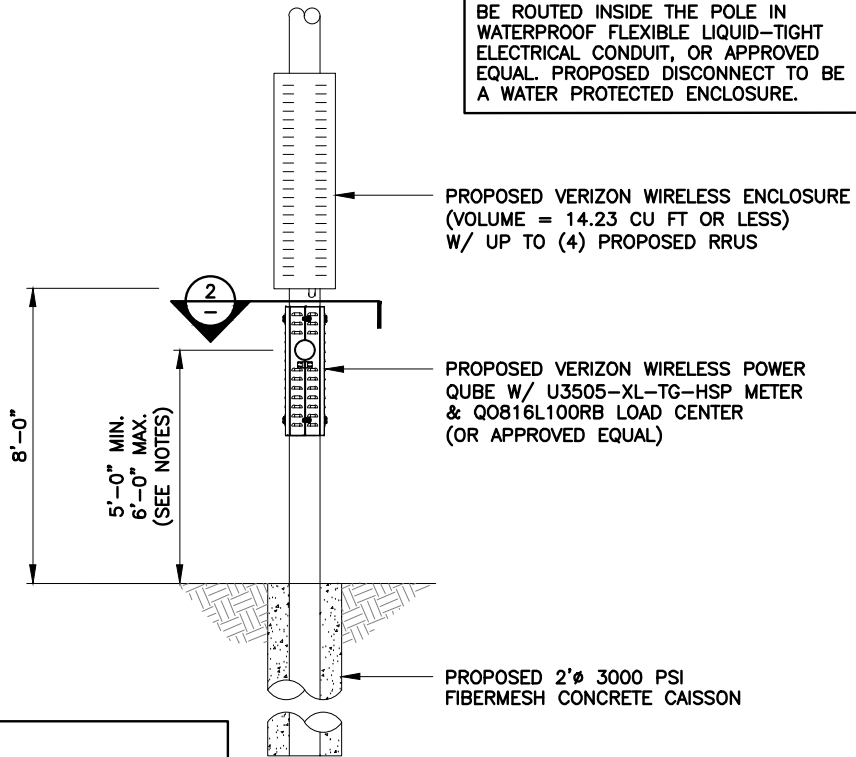
COASTLAND CENTER  
MALL W SC  
#15101987

RIGHT-OF-WAY OF MANDARIN  
ROAD JUST NORTH OF ORCHID  
DRIVE  
NAPLES, FLORIDA 34102  
(COLLIER COUNTY)

SHEET NAME  
ELEVATION  
&  
EQUIPMENT PLAN

SHEET NUMBER  
C3

ALL ELECTRICAL LINES EXTENDING VERTICALLY FROM PROPOSED METER TO BE ROUTED INSIDE THE POLE IN WATERPROOF FLEXIBLE LIQUID-TIGHT ELECTRICAL CONDUIT, OR APPROVED EQUAL. PROPOSED DISCONNECT TO BE IN A WATER PROTECTED ENCLOSURE.



PROPOSED VERIZON WIRELESS ENCLOSURE (VOLUME = 14.23 CU FT OR LESS) W/ UP TO (4) PROPOSED RRUS

PROPOSED VERIZON WIRELESS POWER QUBE W/ U3505-XL-TG-HSP METER & Q0816L100RB LOAD CENTER (OR APPROVED EQUAL)

PROPOSED 2" 3000 PSI FIBERMESH CONCRETE CAISSON

**NOTES:**

1. CONTRACTOR TO ADJUST METER AND DISCONNECT HEIGHTS TO BE 1' ABOVE BFE PER EXISTING SITE CONDITIONS.
2. CONTRACTOR TO DETERMINE ALTERNATE DESIGN PER EQUIPMENT AVAILABILITY.

ALTERNATE ELEVATION

NTS

1

SECTION

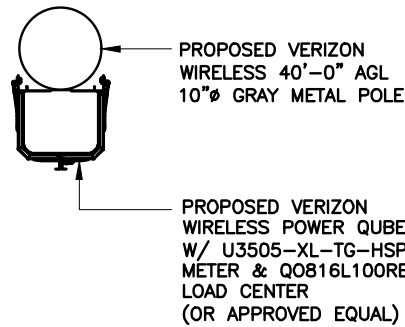
NTS

2

POWER QUBE SPECIFICATIONS

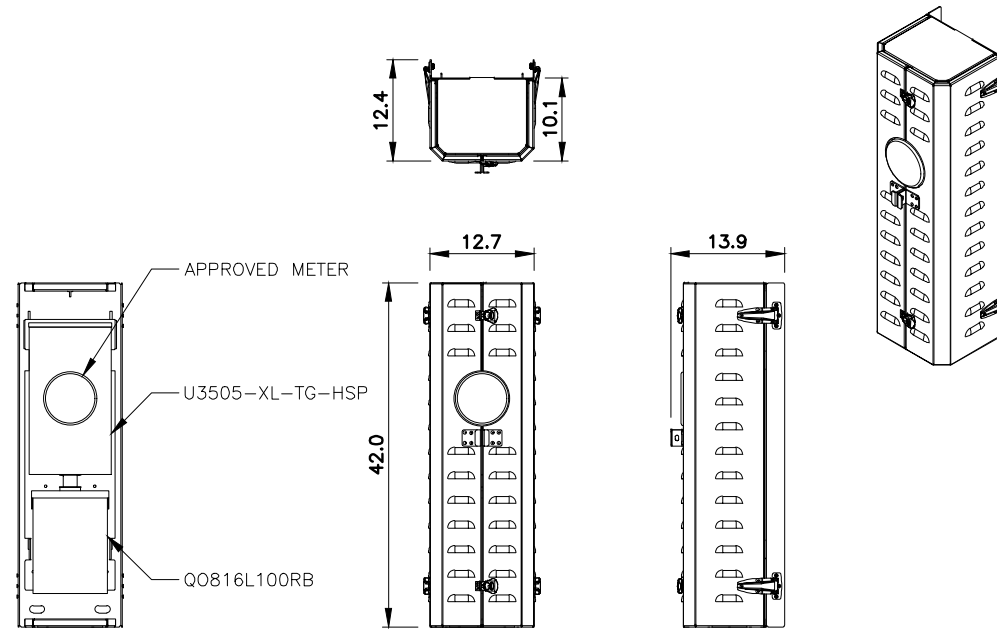
NTS

3

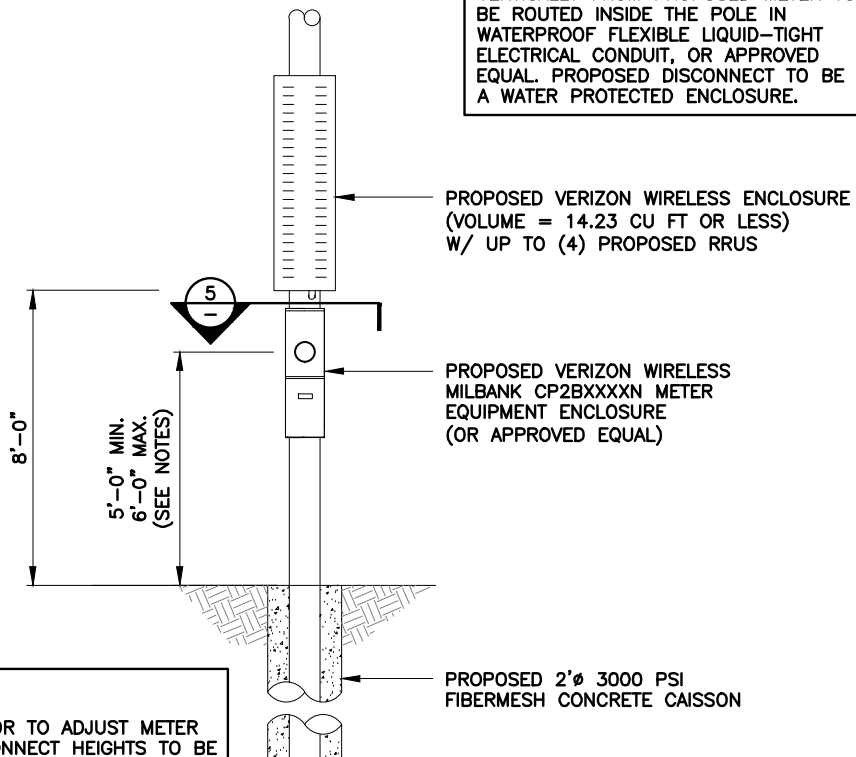


PROPOSED VERIZON WIRELESS 40'-0" AGL 10"  GRAY METAL POLE

PROPOSED VERIZON WIRELESS POWER QUBE W/ U3505-XL-TG-HSP METER & Q0816L100RB LOAD CENTER (OR APPROVED EQUAL)



ALL ELECTRICAL LINES EXTENDING VERTICALLY FROM PROPOSED METER TO BE ROUTED INSIDE THE POLE IN WATERPROOF FLEXIBLE LIQUID-TIGHT ELECTRICAL CONDUIT, OR APPROVED EQUAL. PROPOSED DISCONNECT TO BE IN A WATER PROTECTED ENCLOSURE.



PROPOSED VERIZON WIRELESS ENCLOSURE (VOLUME = 14.23 CU FT OR LESS) W/ UP TO (4) PROPOSED RRUS

PROPOSED VERIZON WIRELESS MILBANK CP2BXXXXN METER EQUIPMENT ENCLOSURE (OR APPROVED EQUAL)

PROPOSED 2" 3000 PSI FIBERMESH CONCRETE CAISSON

**NOTES:**

1. CONTRACTOR TO ADJUST METER AND DISCONNECT HEIGHTS TO BE 1' ABOVE BFE PER EXISTING SITE CONDITIONS.
2. CONTRACTOR TO DETERMINE ALTERNATE DESIGN PER EQUIPMENT AVAILABILITY.

ALTERNATE ELEVATION

NTS

4

SECTION

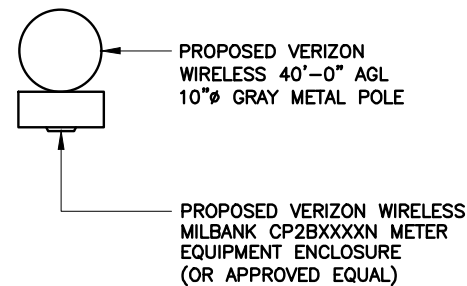
NTS

5

MILBANK EQUIPMENT ENCLOSURE SPECIFICATIONS

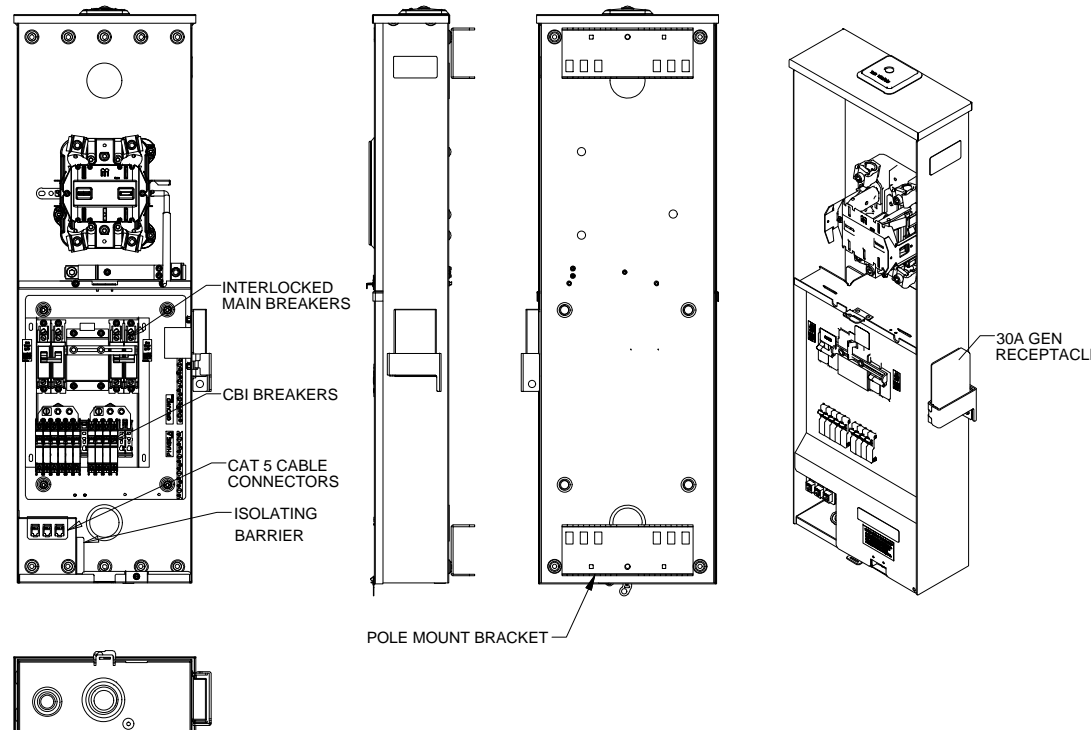
NTS

6



PROPOSED VERIZON WIRELESS 40'-0" AGL 10"  GRAY METAL POLE

PROPOSED VERIZON WIRELESS MILBANK CP2BXXXXN METER EQUIPMENT ENCLOSURE (OR APPROVED EQUAL)



REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED

PROJECT NO.:	19-6713
DRAWN BY:	O. RIVERA
PROJECT MANAGER:	M. MURPHY
CHECKED BY:	M. MURPHY

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CERTIFICATE OF AUTHORIZATION 33693



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COASTLAND CENTER MALL W SC #15101987

RIGHT-OF-WAY OF MANDARIN ROAD JUST NORTH OF ORCHID DRIVE  
NAPLES, FLORIDA 34102 (COLLIER COUNTY)

SHEET NAME

ELECTRICAL EQUIPMENT ALTERNATIVES

SHEET NUMBER

C4

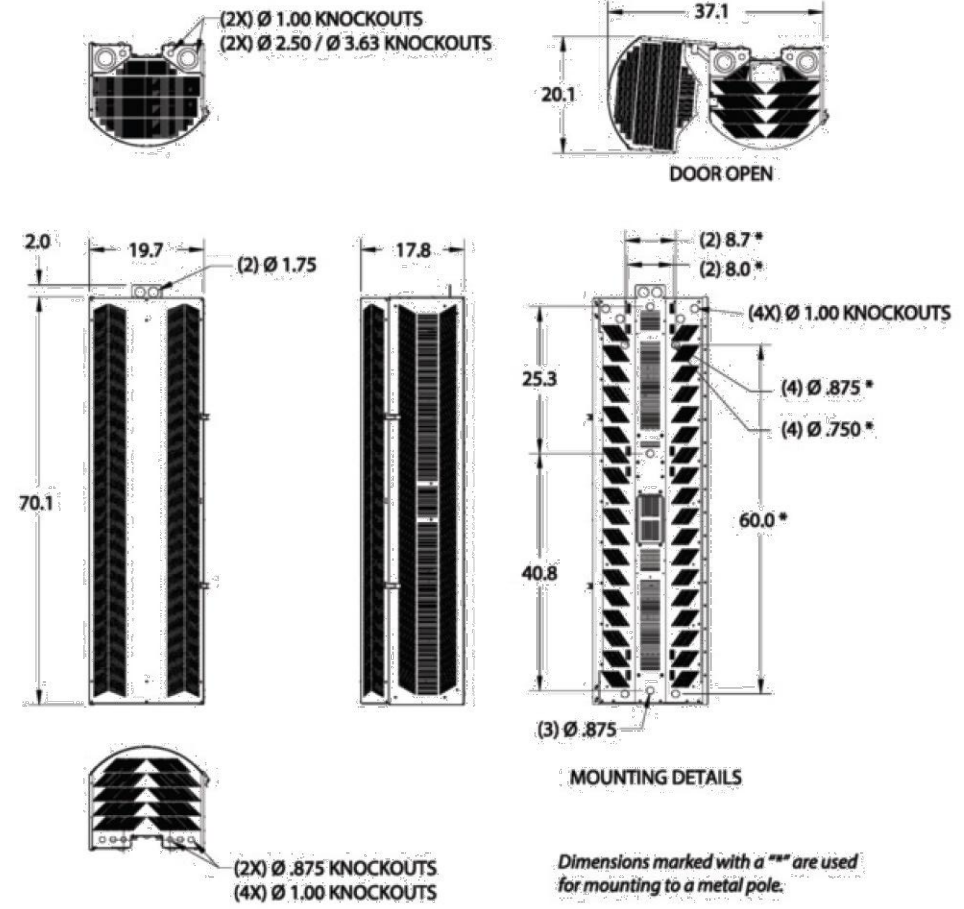
**NOTES:**

- 1. CONTRACTOR TO FOLLOW THE CONNECTION DETAILS TO POLE PER MANUFACTURER'S SPECIFICATIONS. CABINET MANUFACTURERS MAY VARY.
- 2. CONTRACTOR TO ENSURE PROPOSED CABINET HAS A RIGHT SWING DOOR.
- 3. ALL ATTACHED HARDWARE AND EQUIPMENT TO CONFORM TO THE CITY'S UPDATED DESIGN, MATERIAL AND COLOR SIMILAR TO THE POLE COLOR & TEXTURE. ALL ABOVE GROUND EQUIPMENT INCLUDING - ANTENNA, SHROUD, EQUIPMENT CABINET, METER & DISCONNECT ON METAL POLE TO BE GRAY IN COLOR.

HB687 - DEFINED CABINET BELOW OR SIMILAR NOT TO EXCEED 14.23 CUBIC FEET.

**ENCLOSURE:**

DIMENSIONS (HxWxD) 70"x20"x18"  
CUBIC FEET 14.23 CU FT  
WEIGHT SEE STRUCTURAL ANALYSIS BY MANUFACTURER



70" HIGH SHRD60-401 DIMENSIONS (in.)

REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED
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PROJECT MANAGER:	M. MURPHY	
CHECKED BY:	M. MURPHY	

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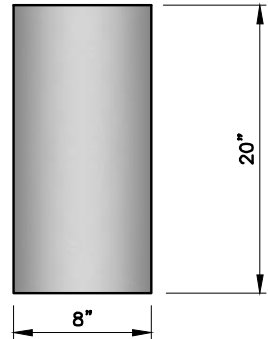
RIGHT-OF-WAY OF MANDARIN  
ROAD JUST NORTH OF ORCHID  
DRIVE  
NAPLES, FLORIDA 34102  
(COLLIER COUNTY)

SHEET NAME  
ENCLOSURE  
DETAILS

SHEET NUMBER



SMALL CELL ANTENNAS TO BE FLUSH MOUNTED TO POLE. CONTRACTOR TO PROVIDE MOUNT.

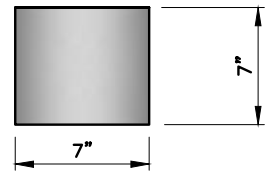


SMALL CELL ANTENNA	
DIMENSIONS (LxWxD)	..... 20"x8"x5"
ANTENNA WEIGHT	..... 53 LBS
VOL. IN CUBIC FT.	..... 0.463

SMALL CELL ANTENNA

NTS 1

LAA ANTENNAS TO BE BANDED TO POLE. CONTRACTOR TO PROVIDE MOUNT.



LAA ANTENNA	
DIMENSIONS (LxWxD)	..... 7"x7"x4"
ANTENNA WEIGHT	..... 12.24 LBS
VOL. IN CUBIC FT.	..... 0.11

LAA ANTENNA

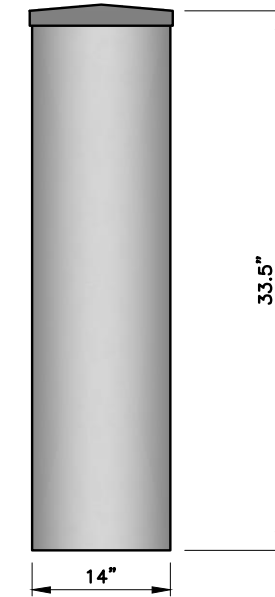
NTS 2

HB687 – DEFINES EACH ANTENNA TO NOT EXCEED 6 CUBIC FEET.

CONTRACTOR TO SUPPLY ANTENNA MOUNT. CONTRACTOR TO COORDINATE WITH ANTENNA MANUFACTURER.

ALL ATTACHED HARDWARE AND EQUIPMENT TO CONFORM TO THE CITY'S UPDATED DESIGN, MATERIAL AND COLOR. ALL ABOVE GROUND EQUIPMENT INCLUDING – ANTENNA, SHROUD, EQUIPMENT CABINET, METER & DISCONNECT.

JMA MODEL CX140MI236-1C	
DIMENSIONS (LxWxD)	..... 33.5"x14"Ø
ANTENNA WEIGHT	..... 35 LBS
FREQUENCY	..... 1695-2700 MHZ
VOL. IN CUBIC FT.	..... 2.98



Electrical specification (minimum/maximum)	Ports 1, 2			Ports 3, 4, 5, 6				
	698-798	824-894	880-960	1695-1880	1850-1990	1920-2180	2300-2500	2500-2690
Frequency bands, MHz								
Polarization	± 45°			± 45°				
Average gain over all tilts, dBi	5.5	5.3	5.6	9.3	9.5	9.6	9.7	9.8
Horizontal beamwidth (HBW), deg	360°			360°				
Vertical beamwidth, (VBW), deg <sup>1</sup>	45°	44°	31°	16.8°	16.7°	14.4°	14.0°	12.7°
Elec downtilt (EDT) range, deg	0° (FET)			2-8° (MET/RET)				
Min X polar isolation, P2P, dB	25	25	25	25	25	25	25	25
Max VSWR/return loss, dB	1.5:1/ -14.0			1.5:1/ -14.0				
PIM	-153			-153				
Maximum input power port	250			150				

Electrical specification (minimum/maximum)	Ports 7,8,9,10		Ports 11,12, 13,14				
	3550-3700	5150-5350	5350-5470	5470-5725	5725-5850	5850-5925	
Frequency bands, MHz							
Polarization	± 45°		± 45°				
Average gain over all tilts, dBi	5.9		5.5	5.7	5.5	5.5	5.6
Horizontal beamwidth (HBW), deg	360°						
Vertical beamwidth, (VBW), deg <sup>1</sup>	30°		24°	24°	20°	14°	18°
Elec downtilt (EDT) range, deg	0° (FET)						
Min X polar isolation, P2P, dB	25		25				
Max VSWR/return loss, dB	1.5:1/ -14.0		1.5:1/ -14.0				
PIM	N/A						
Maximum input power port	10		.25	-	.25	1.0	-

ANTENNA SPECIFICATIONS

NTS 3

REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED

PROJECT NO.: 19-6713  
 DRAWN BY: O. RIVERA  
 PROJECT MANAGER: M. MURPHY  
 CHECKED BY: M. MURPHY

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 NAPLES, FLORIDA 34102 (COLLIER COUNTY)

SHEET NAME	ANTENNA DETAILS
SHEET NUMBER	C6

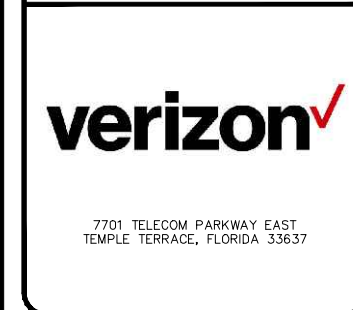
REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED

PROJECT NO.: 19-6713	
DRAWN BY:	O. RIVERA
PROJECT MANAGER:	M. MURPHY
CHECKED BY:	M. MURPHY

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 (813) 615-1422  
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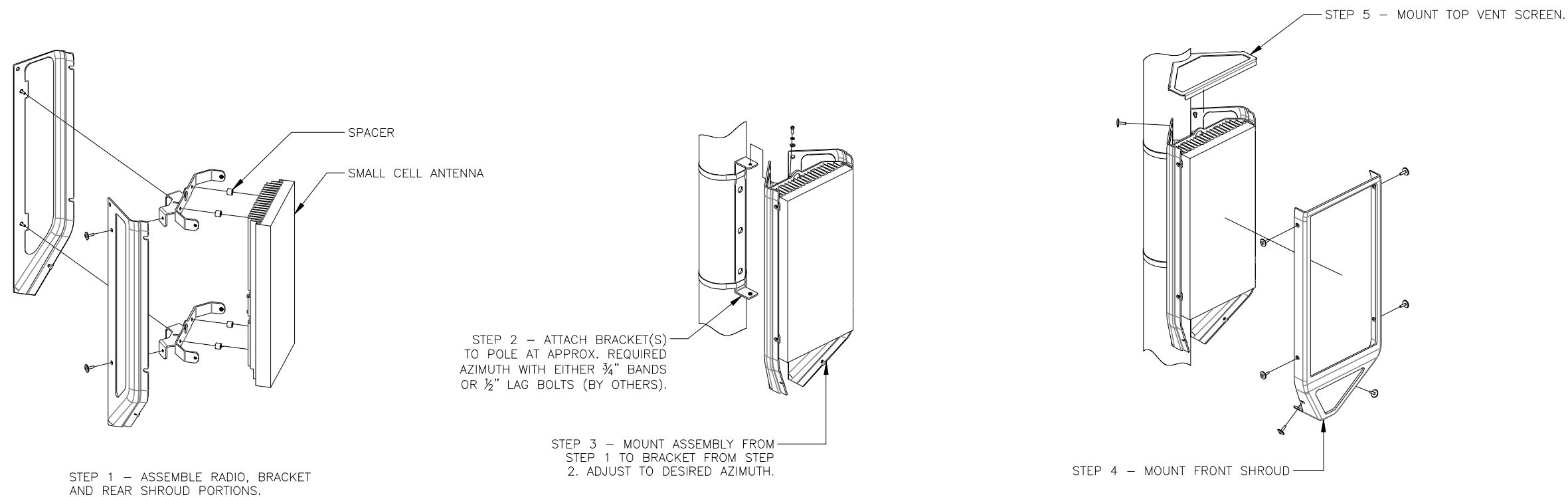


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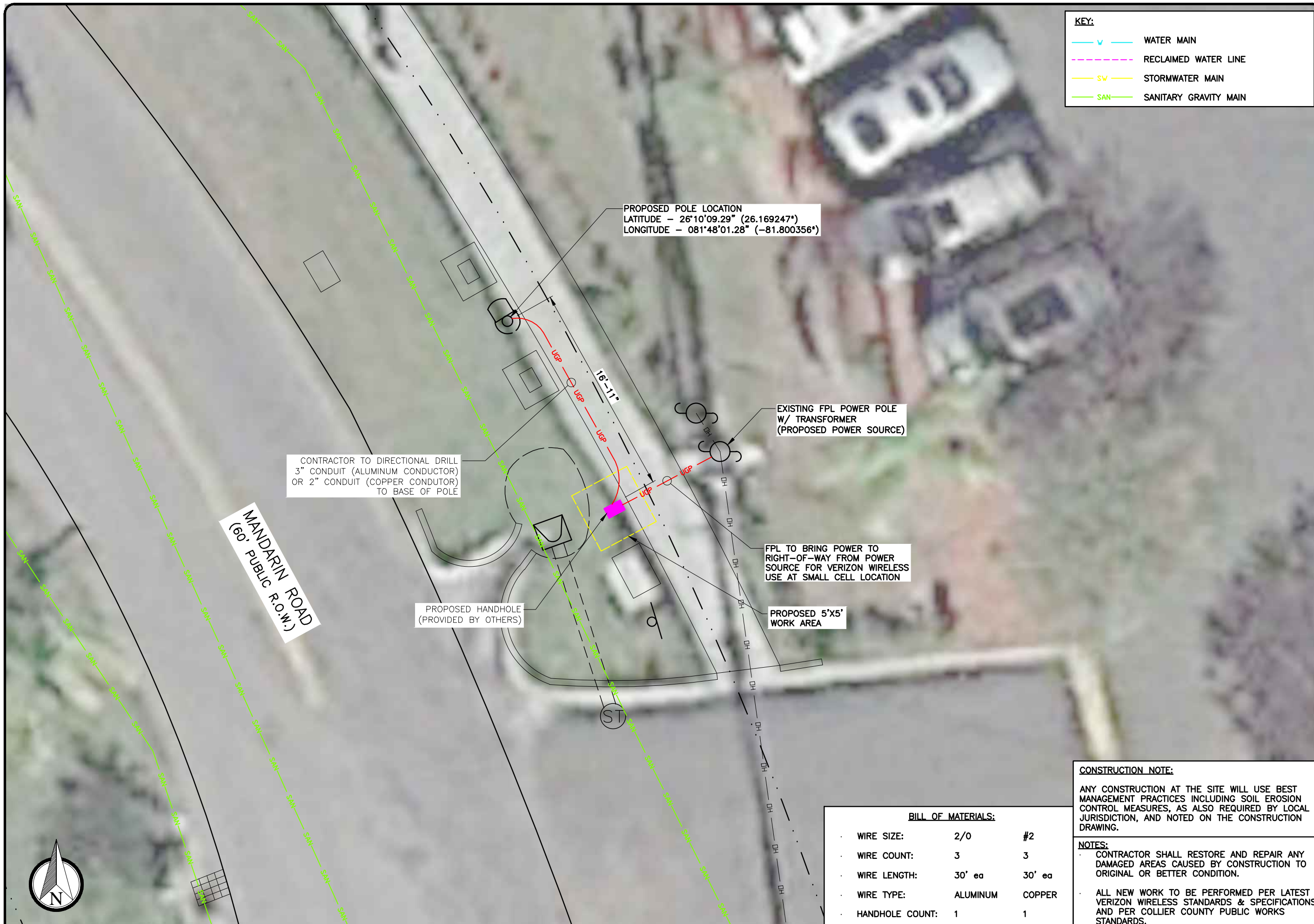
COASTLAND CENTER  
 MALL W SC  
 #15101987  
 RIGHT-OF-WAY OF MANDARIN  
 ROAD JUST NORTH OF ORCHID  
 DRIVE  
 NAPLES, FLORIDA 34102  
 (COLLIER COUNTY)

SHEET NAME  
 ANTENNA MOUNTING  
 DETAIL

SHEET NUMBER  
 C7







**KEY:**

	WATER MAIN
	RECLAIMED WATER LINE
	STORMWATER MAIN
	SANITARY GRAVITY MAIN

PROPOSED POLE LOCATION  
 LATITUDE - 26°10'09.29" (26.169247°)  
 LONGITUDE - 081°48'01.28" (-81.800356°)

CONTRACTOR TO DIRECTIONAL DRILL  
 3" CONDUIT (ALUMINUM CONDUCTOR)  
 OR 2" CONDUIT (COPPER CONDUCTOR)  
 TO BASE OF POLE

MANDARIN ROAD  
 (60' PUBLIC R.O.W.)

PROPOSED HANDHOLE  
 (PROVIDED BY OTHERS)

EXISTING FPL POWER POLE  
 W/ TRANSFORMER  
 (PROPOSED POWER SOURCE)

FPL TO BRING POWER TO  
 RIGHT-OF-WAY FROM POWER  
 SOURCE FOR VERIZON WIRELESS  
 USE AT SMALL CELL LOCATION

PROPOSED 5'X5'  
 WORK AREA

**CONSTRUCTION NOTE:**

ANY CONSTRUCTION AT THE SITE WILL USE BEST MANAGEMENT PRACTICES INCLUDING SOIL EROSION CONTROL MEASURES, AS ALSO REQUIRED BY LOCAL JURISDICTION, AND NOTED ON THE CONSTRUCTION DRAWING.

**NOTES:**

- CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
- ALL NEW WORK TO BE PERFORMED PER LATEST VERIZON WIRELESS STANDARDS & SPECIFICATIONS AND PER COLLIER COUNTY PUBLIC WORKS STANDARDS.

**BILL OF MATERIALS:**

WIRE SIZE:	2/0	#2
WIRE COUNT:	3	3
WIRE LENGTH:	30' ea	30' ea
WIRE TYPE:	ALUMINUM	COPPER
HANDHOLE COUNT:	1	1

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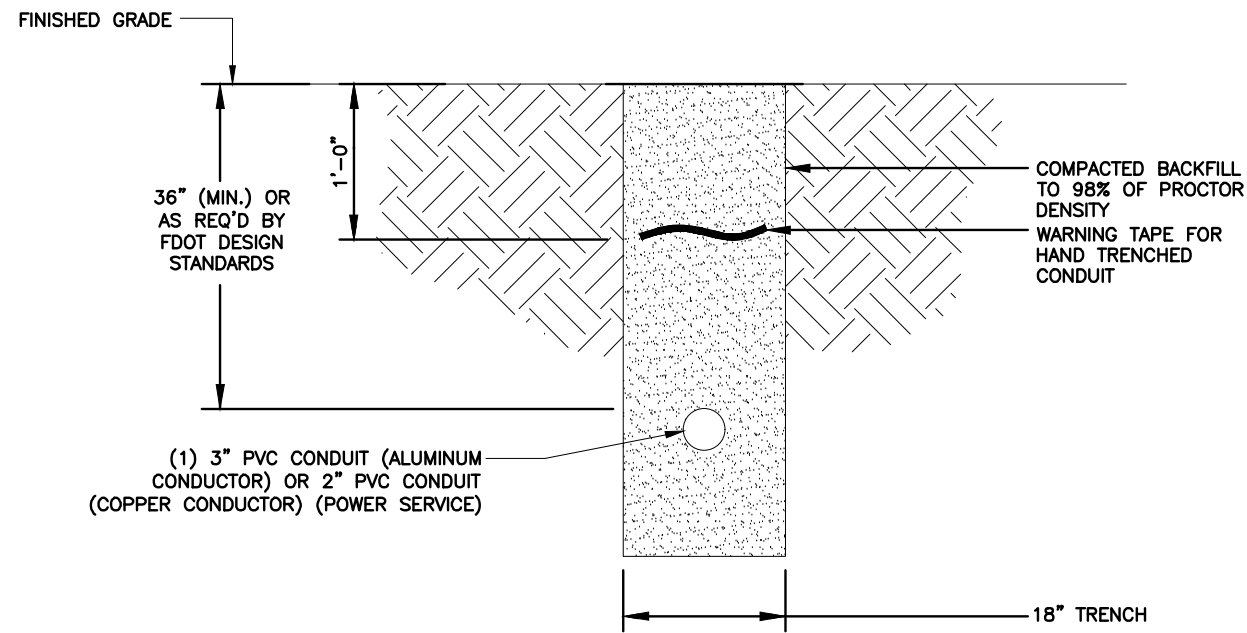
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COASTLAND CENTER MALL W SC  
 #15101987

RIGHT-OF-WAY OF MANDARIN ROAD JUST NORTH OF ORCHID DRIVE  
 NAPLES, FLORIDA 34102  
 (COLLIER COUNTY)

SHEET NAME  
 UTILITY  
 POWER PLAN

SHEET NUMBER  
 E2



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PROJECT MANAGER:	M. MURPHY
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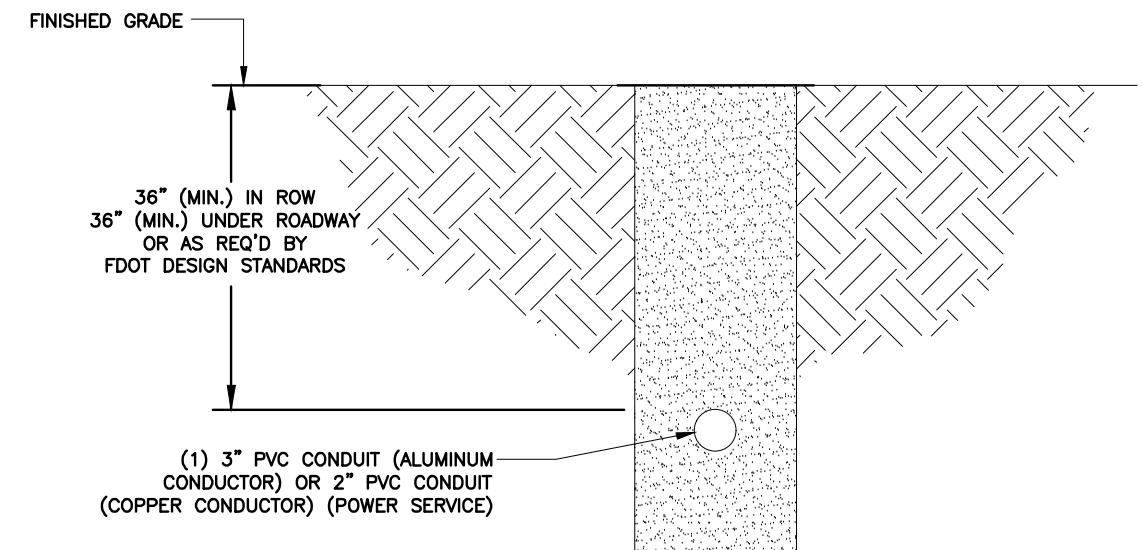
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TRENCHING DETAIL

NTS 1



NOTES:  
 ALL UTILITIES NOT SHOWN IN R/W WILL BE LOCATED PRIOR TO CONSTRUCTION.  
 ALL UTILITIES IN AREA ARE APPROXIMATE. LOCATE PRIOR TO CONSTRUCTION.  
 MAINTAIN 36" MIN. HORIZONTAL AND 36" VERTICAL UTILITY SEPARATION.  
 DRIVEWAYS, TREES & CULVERTS WILL BE DIRECTIONAL BORED.  
 CONTRACTOR TO MAINTAIN 5' HORIZONTAL CLEARANCE IF DIRECTIONAL BORE IS USED PARALLEL TO AN EXISTING WASTEWATER PIPELINE.  
 RIGHT OF WAYS WILL BE RESTORED AS GOOD AS OR BETTER THAN ORIGINAL CONDITION & COMPACTED PER COLLIER COUNTY STANDARDS.



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 MALL W SC  
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 RIGHT-OF-WAY OF MANDARIN  
 ROAD JUST NORTH OF ORCHID  
 DRIVE  
 NAPLES, FLORIDA 34102  
 (COLLIER COUNTY)

SHEET NAME  
 ELECTRICAL  
 DETAILS

SHEET NUMBER  
 E3

BORING DETAIL

NTS 2

REV	DATE	DESCRIPTION
0	04/03/23	FINAL PLANS ISSUED
1	06/06/23	REVISED PER COMMENTS

PROJECT NO.: 19-6713

DRAWN BY: O. RIVERA

PROJECT MANAGER: M. MURPHY

CHECKED BY: M. MURPHY

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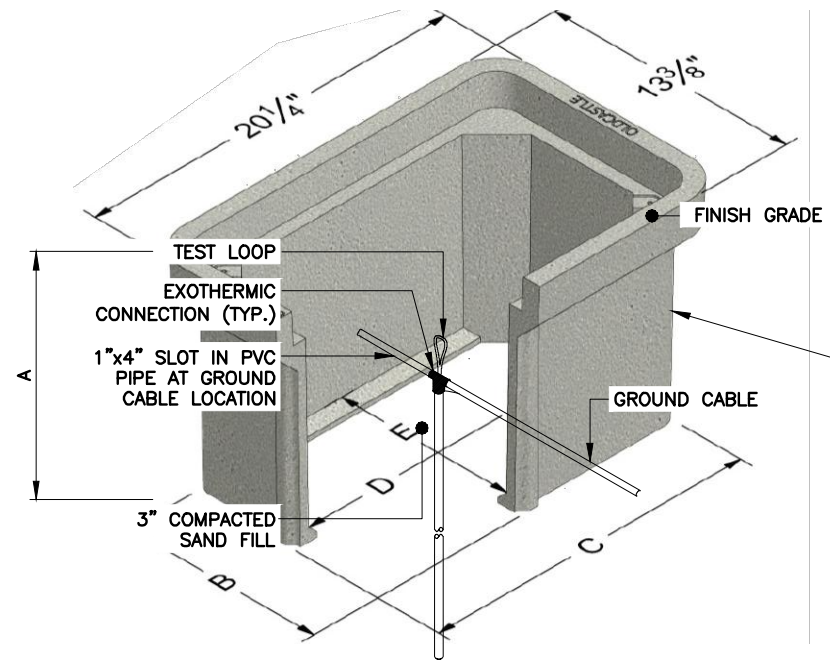
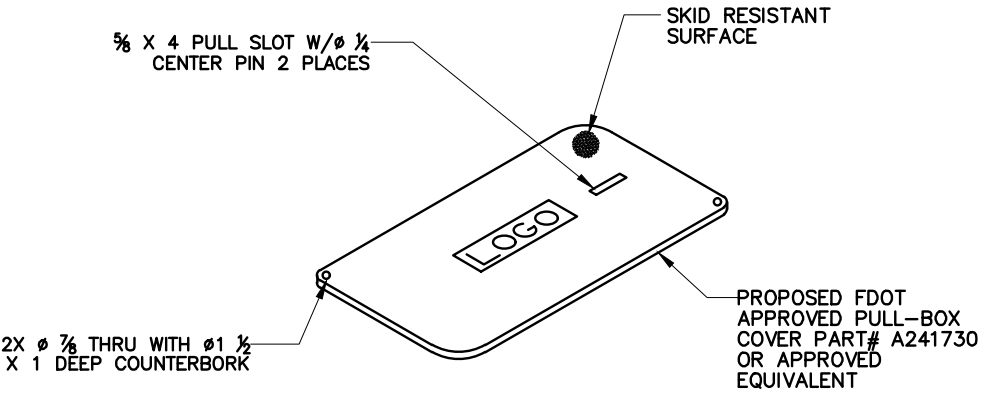
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COASTLAND CENTER MALL W SC #15101987

RIGHT-OF-WAY OF MANDARIN ROAD JUST NORTH OF ORCHID DRIVE  
NAPLES, FLORIDA 34102 (COLLIER COUNTY)

SHEET NAME	
PULL-BOX DETAILS	
SHEET NUMBER	
E4	

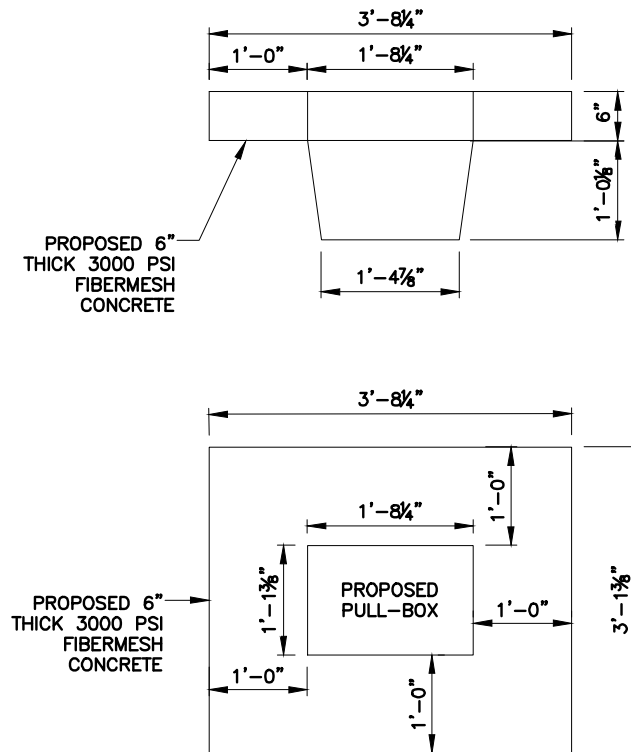


PROPOSED FDOT APPROVED PULL-BOX PART# B141730 OR APPROVED EQUIVALENT

NOTES:

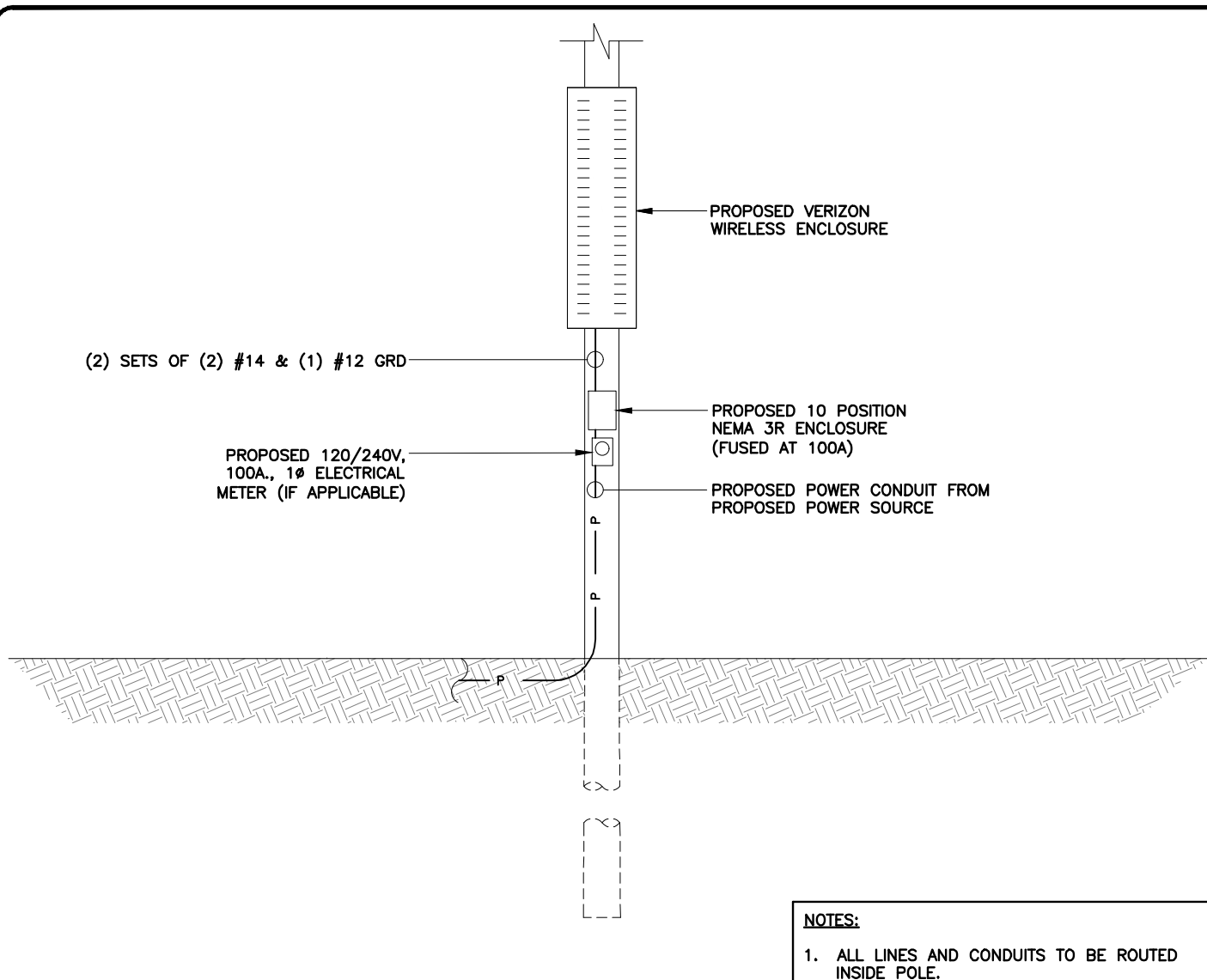
1. CONTRACTOR SHALL PROVIDE PRE-CAST CONCRETE INSPECTION WELL WITH CAST IRON TRAFFIC RATED LID WHEN WELL WILL BE IN AN AREA WHERE THEY CAN BE DAMAGED
2. ALL WORK SHALL CONFORM TO THE LOCAL BUILDING CODES. DEPTH MAY VARY.

	A	B	C	D	E
1118-12	12	11-3/16	18-1/16	16-7/16	9-9/16
1118-18	18	11-1/16	17-15/16	16-3/16	9-5/16

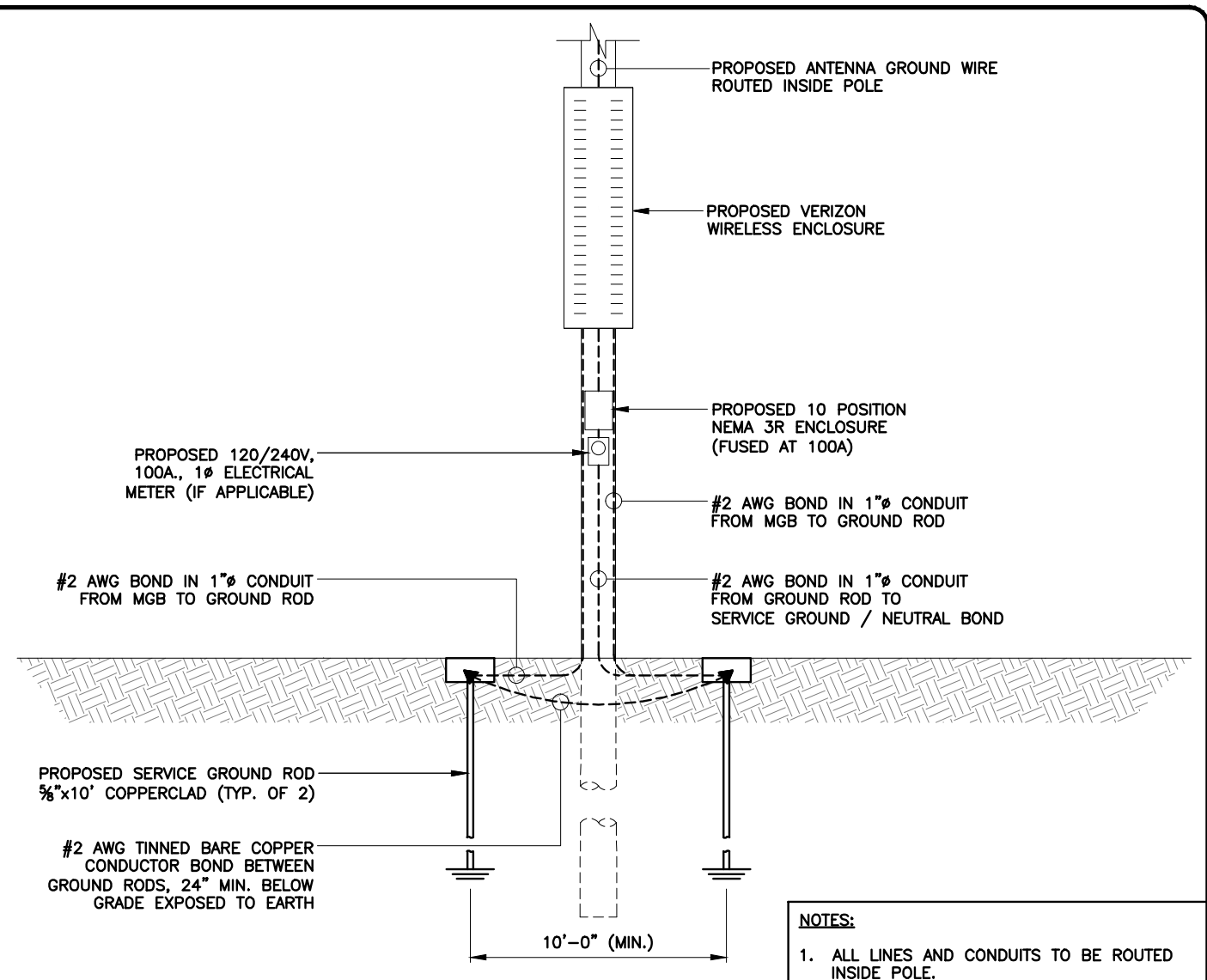


NOTE:  
THIS ASSEMBLY IS RATED FOR A STATIC DESIGN LOAD OF 15,000 LBS. OVER A 10 X 10 AREA AND MUST PASS A MINIMUM STATIC TEST LOAD OF 22,500 LBS.

NOTE:  
INSTALLATION OF APRON REQUIRED FOR NON-SIDEWALK INSTALLATIONS. IF PULL-BOX IS WITHIN CONCRETE SIDEWALK, APRON NOT REQUIRED.



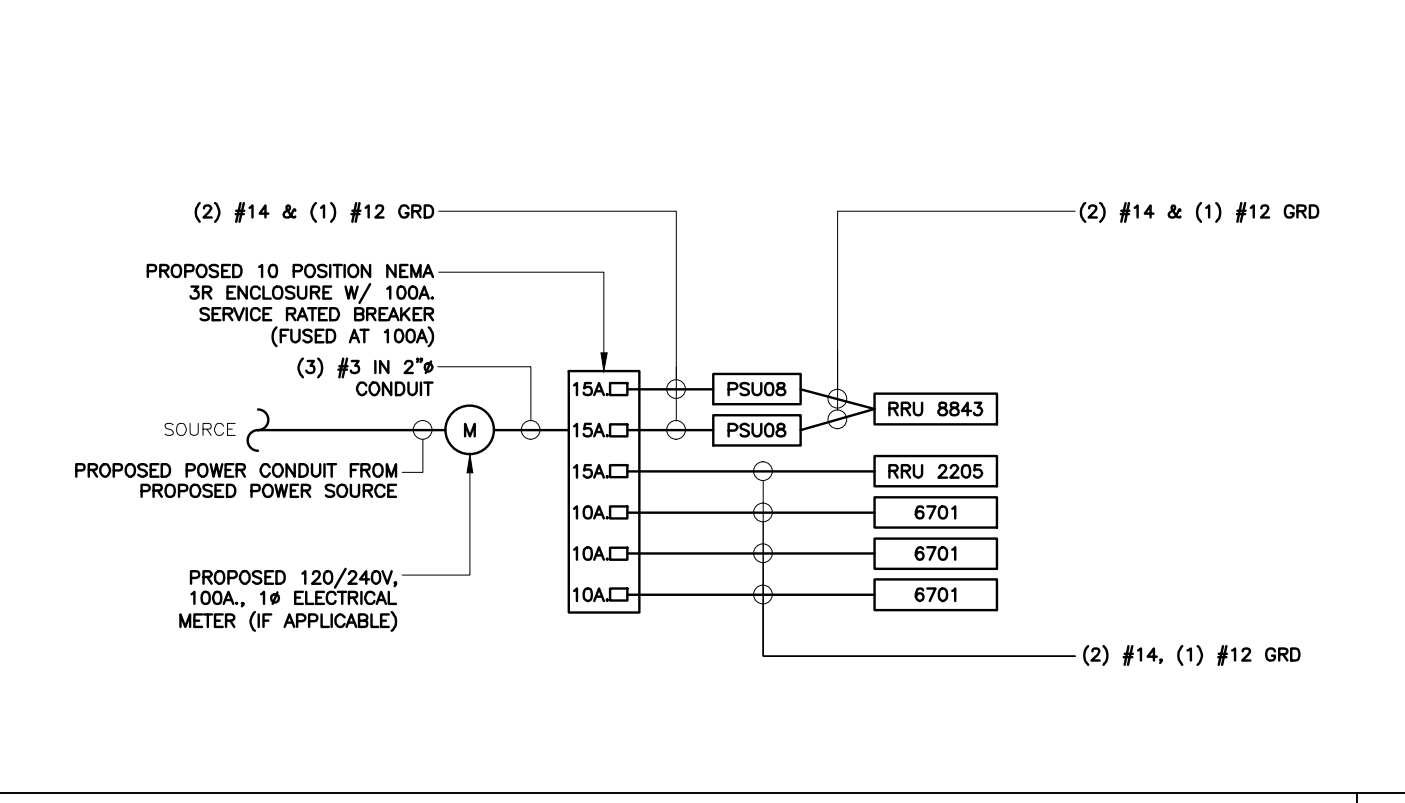
**NOTES:**  
1. ALL LINES AND CONDUITS TO BE ROUTED INSIDE POLE.



**NOTES:**  
1. ALL LINES AND CONDUITS TO BE ROUTED INSIDE POLE.

UTILITY ROUTING DETAIL NTS 1

GROUNDING PLAN DETAIL NTS 2



ONE-LINE DIAGRAM 3

<b>PANEL NAME:</b>		VERIZON WIRELESS				<b>PANEL RATING</b>		100 AMPS	
<b>LOCATION:</b>		NAPLES GS3 EMBASSY CLUB - A				120/240		VOLTS	
<b>PHASE</b>	1	X	MCB	100	AMP				
<b>WIRE</b>	3	MAIN LUG		ONLY					
<b>CKT NO.</b>	<b>DESCRIPTION</b>				<b>KVA</b>	<b>AMP</b>	<b>WIRE</b>	<b>GND</b>	<b>COND</b>
1	PSU08				1.0	-	15/1	#14	#12 -
2	PSU08				-	1.0	15/1	#14	#12 -
3	RRU 2205				0.1	-	15/1	#14	#12 -
4	6701				-	0.4	10/1	#14	#12 -
5	6701				0.4	-	10/1	#14	#12 -
6	6701				-	0.4	10/1	#14	#12 -
7	SPACE				-	-	-	-	-
8	SPACE				-	-	-	-	-
<b>SUB TOTAL KVA (CONT)</b>					1.5	1.8			
<b>SUB TOTAL KVA (NON-CONT)</b>					0	0			
<b>TOTAL KVA</b>					4.1				
<b>NON-CONT + 125% CONT.</b>									
<b>TOTAL AMPS</b>					17.2				

PANEL SCHEDULE 4

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<b>SHEET NAME</b>	
UTILITY ROUTING / GROUNDING PLAN	
<b>SHEET NUMBER</b>	
E5	