



VERIZON SITE NAME
NAPLES GS SC 4
 VERIZON SITE NUMBER
#16981253

RIGHT-OF-WAY OF HARBOUR DRIVE
 JUST WEST OF LEEWARD LANE
 NAPLES, FLORIDA 34103
 (COLLIER COUNTY)

INSTALLATION OF PROPOSED SMALL CELL
 EQUIPMENT TO PROPOSED METAL POLE

| REV | DATE | DESCRIPTION |
|-----|----------|----------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
| 1 | 11/16/23 | REVISED PER COMMENTS |
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PROJECT NO.: 22-5529
 DRAWN BY: J.MENDEZ
 PROJECT MANAGER: M. MURPHY
 CHECKED BY: M. MURPHY

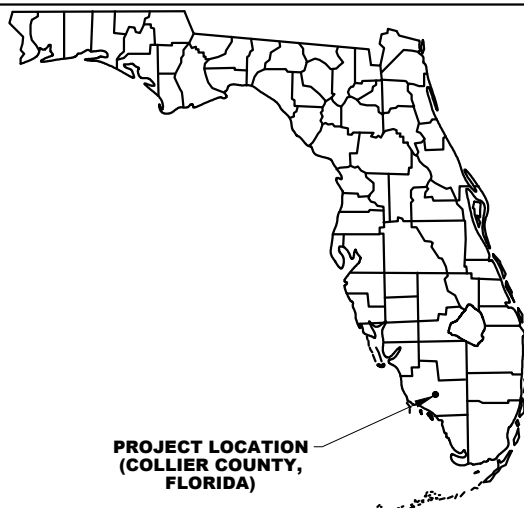
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12979 TELECOM PARKWAY N
 TEMPLE TERRACE, FLORIDA 33637
 (813) 615-1422
 CERTIFICATE OF AUTHORIZATION 33693

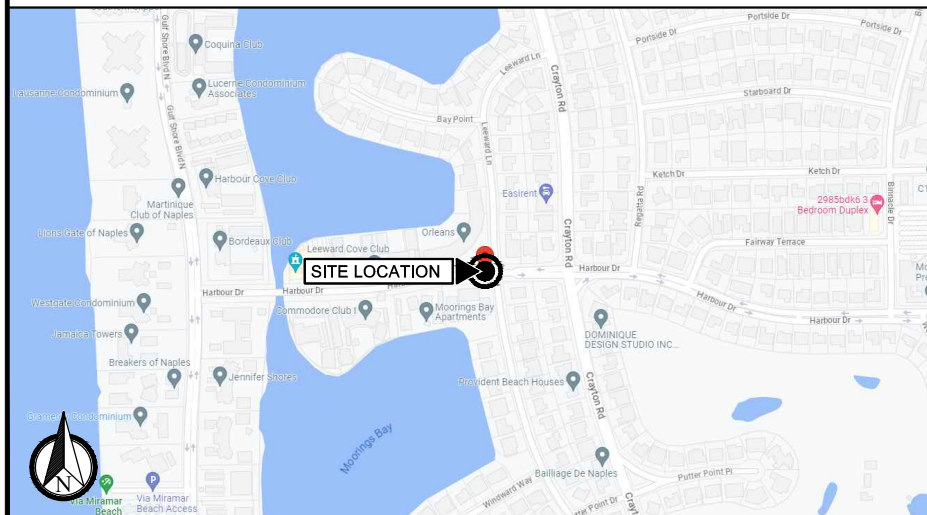


LOCAL MAP



PROJECT LOCATION
 (COLLIER COUNTY,
 FLORIDA)

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 HARBOUR DR IN NAPLES. DESTINATION WILL BE ON THE RIGHT-HAND SIDE OF THE ROAD.

PROPERTY SUMMARY

PARCEL #: N/A (R.O.W.)
 LATITUDE: 26° 10' 52.08" N (NAD83)
 26.181133 N
 LONGITUDE: 81° 48' 31.82" W (NAD83)
 -81.808839 W
 JURISDICTION: CITY OF NAPLES

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

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.

INDEX OF DRAWINGS

| SHT. NO. | DESCRIPTION | REV. NO. |
|----------|-----------------------------------|----------|
| T1 | TITLE SHEET | 1 |
| N1 | NOTES | 0 |
| S1 | SURVEY | 0 |
| C1 | SITE PLAN W/ AERIAL | 1 |
| C2 | SITE PLAN | 1 |
| C3 | ELEVATION & EQUIPMENT PLAN | 1 |
| C4 | ELECTRICAL EQUIPMENT ALTERNATIVES | 1 |
| C5 | ENCLOSURE DETAILS | 1 |
| C6 | ANTENNA DETAILS | 0 |
| C7 | ANTENNA MOUNTING DETAIL | 0 |
| E1 | ELECTRICAL / GROUNDING NOTES | 0 |
| E2 | UTILITY POWER PLAN | 1 |
| E3 | TYPICAL CROSS-SECTION | 1 |
| E4 | ELECTRICAL DETAILS | 0 |
| E5 | PULL-BOX DETAILS | 0 |
| E6 | UTILITY ROUTING / GROUNDING PLAN | 0 |
| MT1 | MOT PLAN | 0 |

CONSTRUCTION SCHEDULE

CONSTRUCTION TO START WITHIN 90 DAYS OF PERMIT APPROVAL

CONTRACTOR TO FINALIZE WITHIN 270 DAYS OF PERMIT APPROVAL

APPROVALS

PROPERTY OWNER _____
 RF ENGINEER _____
 CONSTRUCTION _____
 SITE ACQUISITION _____
 ZONING _____
 NETWORK _____
 OPERATIONS _____
 CONTRACTOR _____

NAPLES GS SC 4
 #16981253

RIGHT-OF-WAY OF HARBOUR
 DRIVE JUST WEST OF LEEWARD
 LANE
 NAPLES, FLORIDA 34103
 (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.

GENERAL NOTES

1

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

2

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 1/16 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.

STRUCTURAL STEEL NOTES

3

| REV | DATE | DESCRIPTION |
|------------------|----------|--------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
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| PROJECT NO.: | | 22-5529 |
| DRAWN BY: | | J.MENDEZ |
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 (813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693



7701 TELECOM PARKWAY EAST
 TEMPLE TERRACE, FLORIDA 33637

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.

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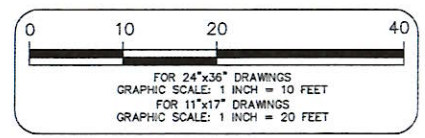
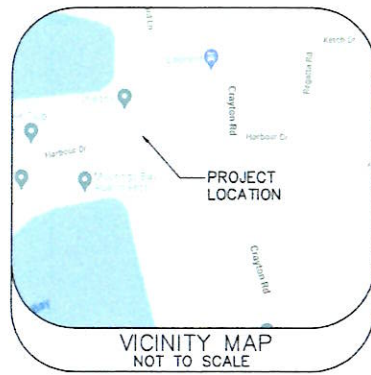
RIGHT-OF-WAY OF HARBOUR
 DRIVE JUST WEST OF LEEWARD
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 NAPLES, FLORIDA 34103
 (COLLIER COUNTY)

SHEET NAME

NOTES

SHEET NUMBER

N1



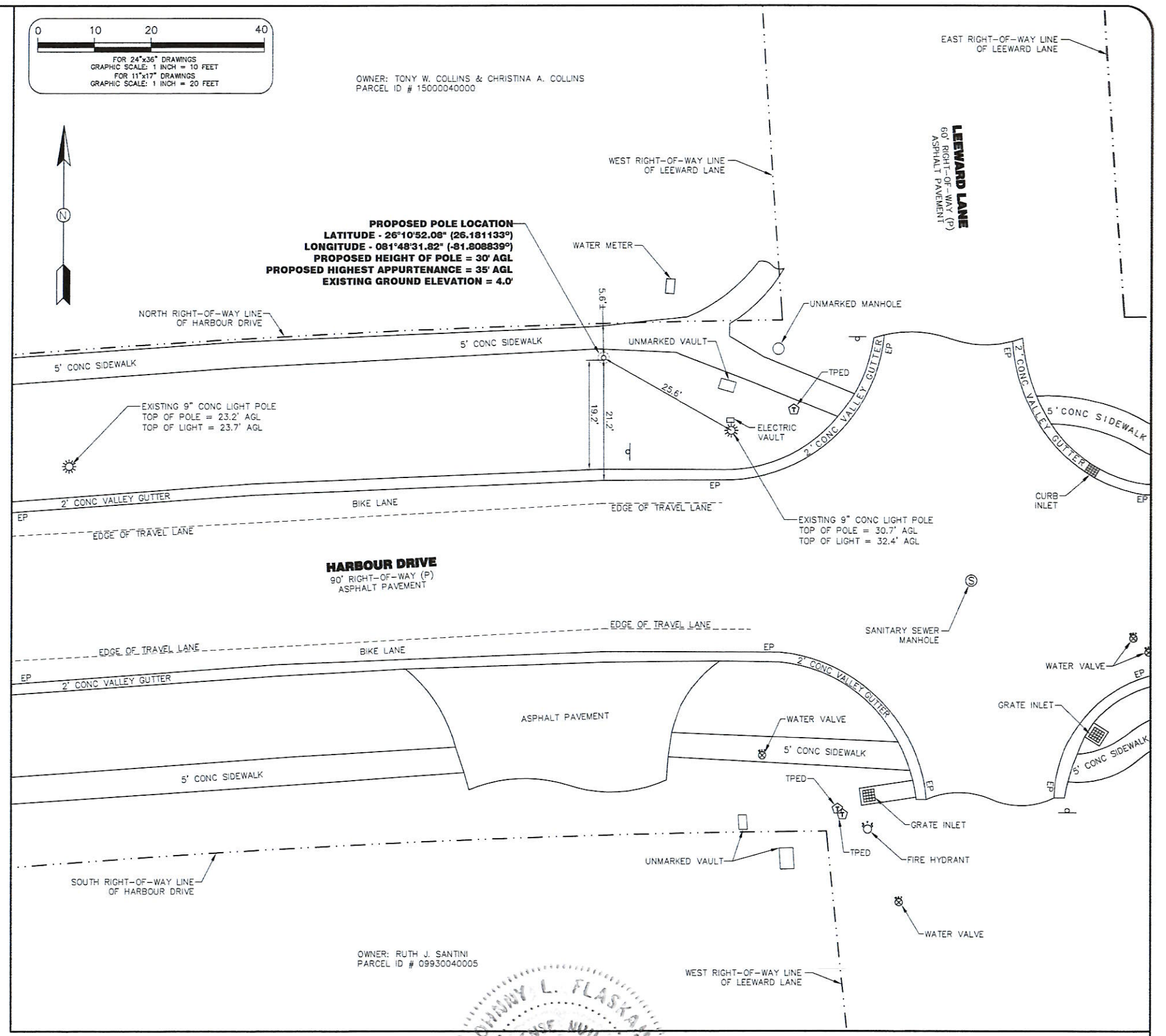
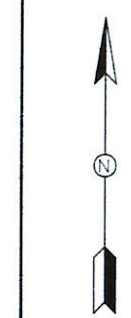
OWNER: TONY W. COLLINS & CHRISTINA A. COLLINS
PARCEL ID # 15000040000

SURVEYOR'S NOTES:

1. THIS SURVEY WAS PERFORMED ON THE GROUND ON NOVEMBER 4, 2022 UNDER THE SUPERVISION OF A FLORIDA PROFESSIONAL SURVEYOR & MAPPER.
2. THE SUBJECT PROJECT AREA APPEARS TO BE WITHIN ZONE "AE", MAP NUMBER 12021C0391H, COMMUNITY NUMBER 125130, PANEL NUMBER 0391, SUFFIX H WITH AN EFFECTIVE DATE OF 05/16/2012. HAVING A BASE FLOOD ELEVATION OF 10' (NORTH AMERICAN VERTICAL DATUM OF 1988).
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.
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 HARBOUR DRIVE, 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
- (F) = FIELD
- (P) = PLAT
- (D) = DEED
- F.D.O.T. = FLORIDA DEPARTMENT OF TRANSPORTATION
- NO. = NUMBER
- LB = LICENSED BUSINESS
- ROP = REINFORCED CONCRETE PIPE
- CMP = CORRUGATED METAL PIPE
- TPED = TELEPHONE PEDESTAL
- TSV = TRAFFIC SIGNAL VAULT
- TOS = TOP OF BANK
- EP = EDGE OF PAVEMENT
- AGL = ABOVE GROUND LEVEL
- CONC = CONCRETE
- ELEV = ELEVATION
- T = TOWNSHIP
- R = RANGE
- O.R. = OFFICIAL RECORDS
- ID = IDENTIFICATION
- W/ = WITH
- MES = MITERED END SECTION
- TYP. = TYPICAL
- CLF = CHAIN LINK FENCE
- OH = OVERHEAD LINE
- UT = UTILITY POLE
- TS = TRAFFIC SIGN
- PT = PALM TREE
- MT = MISCELLANEOUS TREE



OWNER: RUTH J. SANTINI
PARCEL ID # 09930040005

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



| REVISIONS | |
|-----------|---|
| 1 | MOVED PROPOSED POLE LOCATION PER CLIENTS REQUEST. NO FIELD WORK WAS PERFORMED AS PART OF THIS REVISION. |
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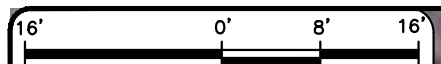
PREPARED FOR:

7701 E. TELECOM PARKWAY
TEMPLE TERRACE, FLORIDA 33637

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

| DRAWING INFORMATION: | |
|----------------------|------------|
| FIELD DATE: | 11-04-2022 |
| DRAWN DATE: | 11-09-2022 |
| CHECK DATE: | 11-09-2022 |
| SEC.-TWP.-RGE.: | 28-49S-25E |

| SITE INFORMATION: | |
|---|---------|
| 16981253 NAPLES GS SC 4 | |
| RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE NAPLES, FLORIDA 34103 | |
| SMW PROJECT NUMBER: | 22-5529 |
| 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"

KEY:

| | |
|--|---------------------------|
| | WATER MAIN |
| | RECLAIMED WATER LINE |
| | STORMWATER MAIN |
| | SANITARY GRAVITY MAIN |
| | HIGH DENSITY POLYETHYLENE |

OWNER: TONY W. COLLINS & CHRISTINA A. COLLINS
PARCEL ID # 15000040000

PROPOSED GROUND ROD
PULL-BOX W/ CONCRETE APRON
PROPOSED POLE LOCATION
LATITUDE -26°10'52.08" (26.181133°)
LONGITUDE -081°48'31.82" (-81.808839°)
PROPOSED HEIGHT OF POLE = 30' AGL
PROPOSED HIGHEST APPURTENANCE = 35' AGL
EXISTING GROUND ELEVATION = 4.0'

FLOOD NOTE:
• THE SUBJECT PROJECT AREA APPEARS TO BE WITHIN ZONE "AE", MAP NUMBER 12021C0391H, COMMUNITY NUMBER 125130 PANEL NUMBER 0391, SUFFIX H WITH AN EFFECTIVE DATE OF 05/16/2012. HAVING A BASE FLOOD ELEVATION OF 10' (NORTH AMERICAN VERTICAL DATUM OF 1988).

| REV | DATE | DESCRIPTION |
|-----|----------|----------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
| 1 | 11/16/23 | REVISED PER COMMENTS |

PROJECT NO.: 22-5529
DRAWN BY: J.MENDEZ
PROJECT MANAGER: M. MURPHY
CHECKED BY: M. MURPHY

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ENGINEERING GROUP, INC.
TOGETHER PLANNING A BETTER TOMORROW

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

CERTIFICATE OF AUTHORIZATION 33693

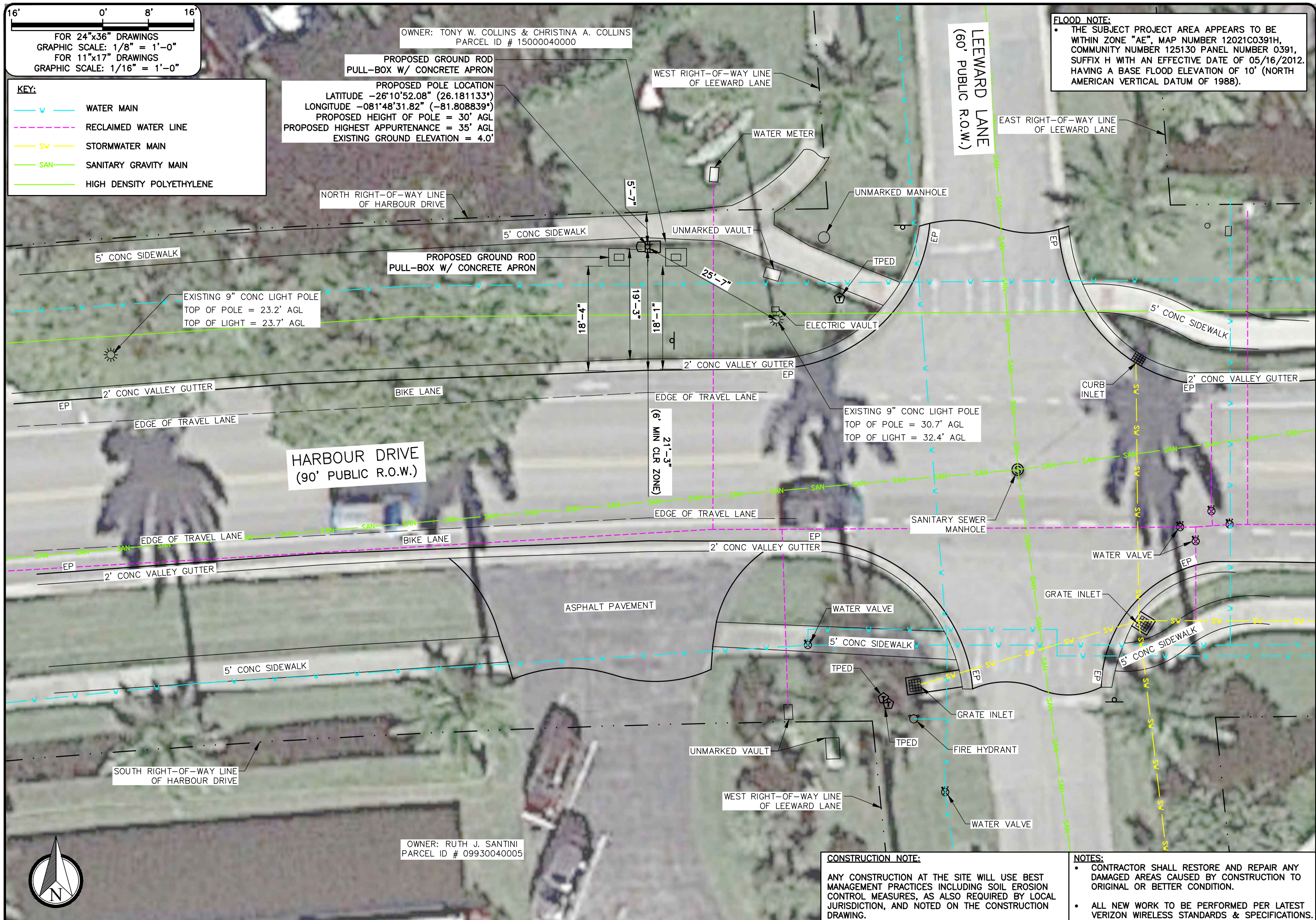
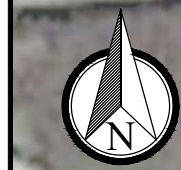
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TEMPLE TERRACE, FLORIDA 33637

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NAPLES GS SC 4
#16981253

RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
NAPLES, FLORIDA 34103
(COLLIER COUNTY)

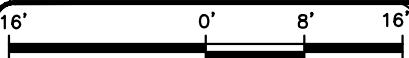
| | |
|---------------------|--|
| SHEET NAME | |
| SITE PLAN W/ AERIAL | |
| SHEET NUMBER | |
| C1 | |



OWNER: RUTH J. SANTINI
PARCEL ID # 09930040005

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.



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

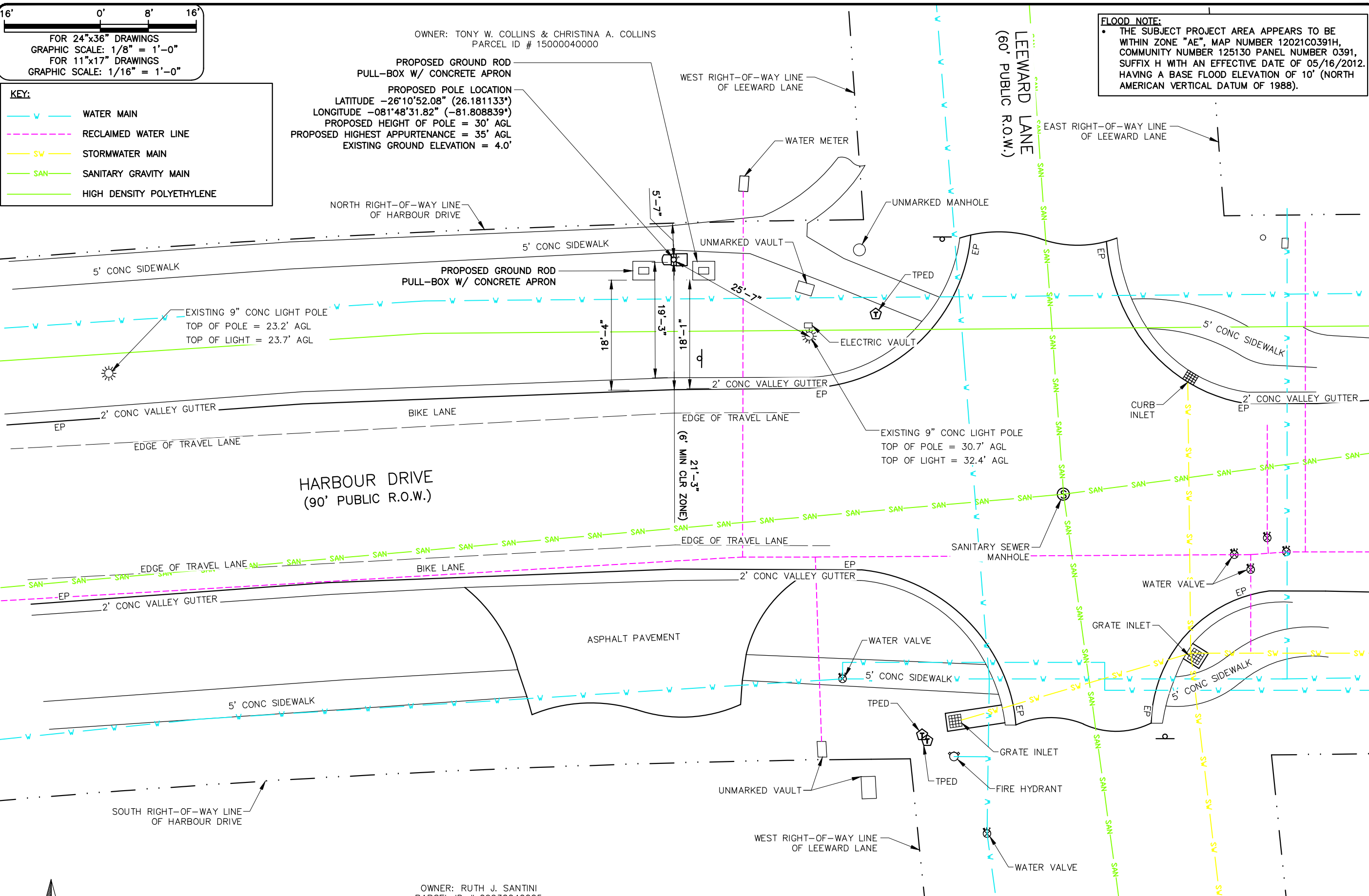
KEY:

- WATER MAIN
- RECLAIMED WATER LINE
- STORMWATER MAIN
- SANITARY GRAVITY MAIN
- HIGH DENSITY POLYETHYLENE

OWNER: TONY W. COLLINS & CHRISTINA A. COLLINS
PARCEL ID # 15000040000

PROPOSED GROUND ROD
PULL-BOX W/ CONCRETE APRON
PROPOSED POLE LOCATION
LATITUDE -26°10'52.08" (26.181133°)
LONGITUDE -081°48'31.82" (-81.808839°)
PROPOSED HEIGHT OF POLE = 30' AGL
PROPOSED HIGHEST APPURTENANCE = 35' AGL
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FLOOD NOTE:
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| REV | DATE | DESCRIPTION |
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| 0 | 08/19/23 | FINAL PLANS ISSUED |
| 1 | 11/16/23 | REVISED PER COMMENTS |

| | |
|------------------|-----------|
| PROJECT NO.: | 22-5529 |
| DRAWN BY: | J.MENDEZ |
| PROJECT MANAGER: | M. MURPHY |
| CHECKED BY: | M. MURPHY |

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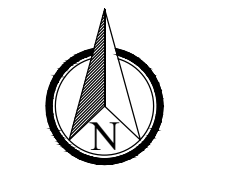


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(813) 615-1422
CERTIFICATE OF AUTHORIZATION 33693



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NAPLES GS SC 4
#16981253
RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
NAPLES, FLORIDA 34103 (COLLIER COUNTY)



OWNER: RUTH J. SANTINI
PARCEL ID # 09930040005

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.

SHEET NAME
SITE PLAN

SHEET NUMBER
C2

4' 0' 2' 4'
 FOR 24"x36" DRAWINGS
 GRAPHIC SCALE: 3/8" = 1'-0"
 FOR 11"x17" DRAWINGS
 GRAPHIC SCALE: 3/16" = 1'-0"

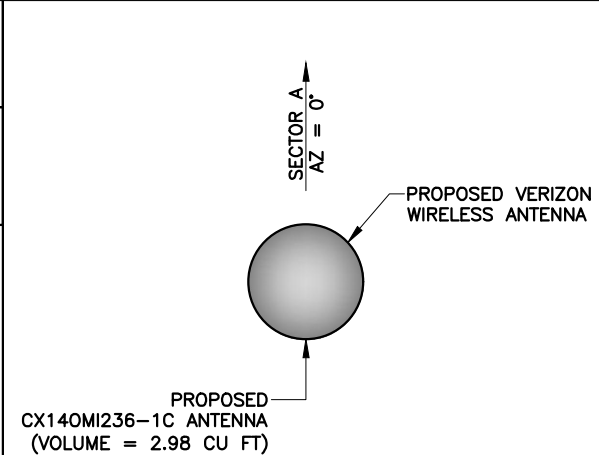
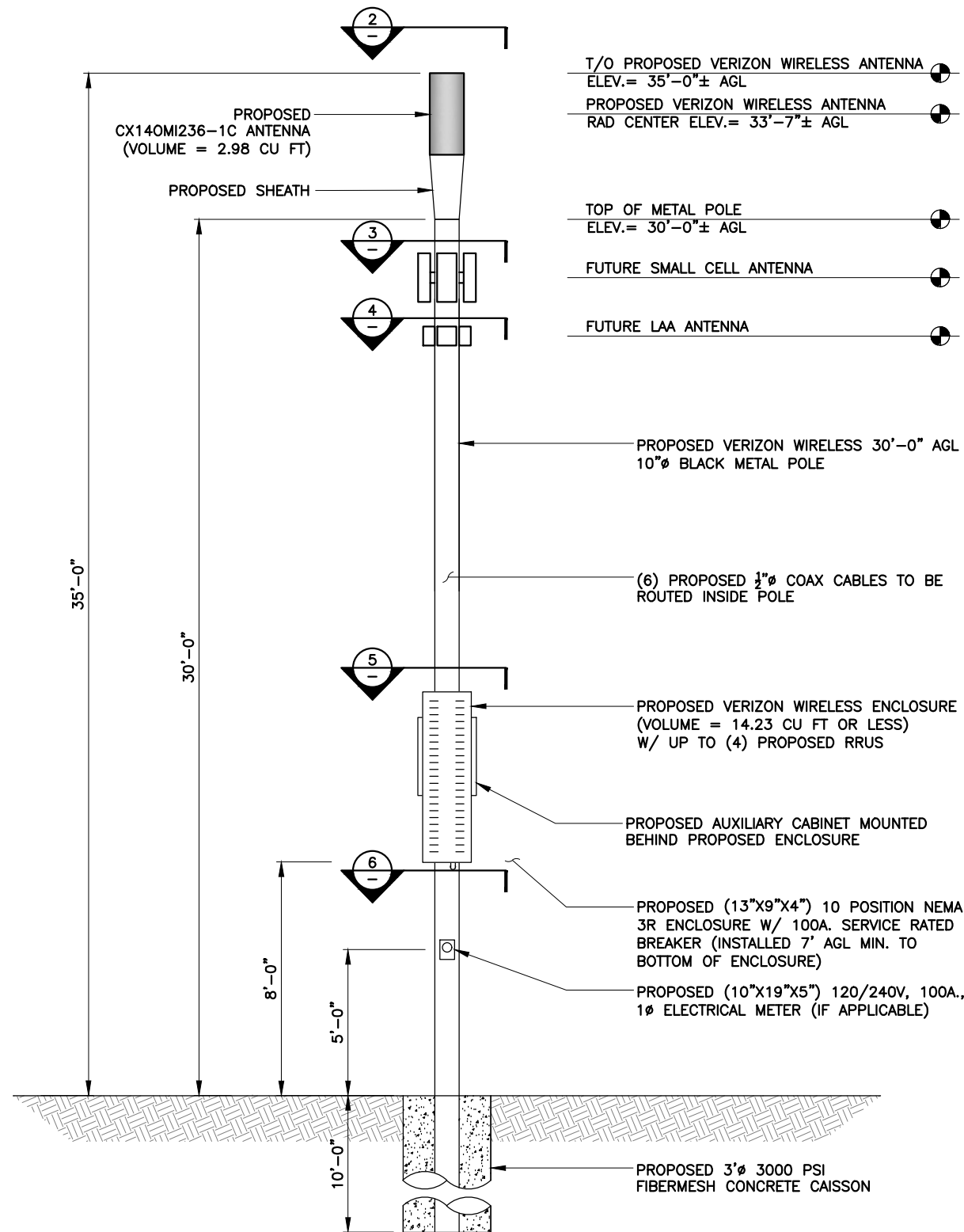
ALL ELECTRICAL LINES EXTENDING VERTICALLY FROM PROPOSED METER TO BE ROUTED INSIDE THE POLE IN WATERPROOF FLEXIBLE LIQUID-TIGHT ELECTRICAL CONDUIT, OR APPROVED EQUAL. PROPOSED DISCONNECT TO BE IN A WATER PROTECTED ENCLOSURE.

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

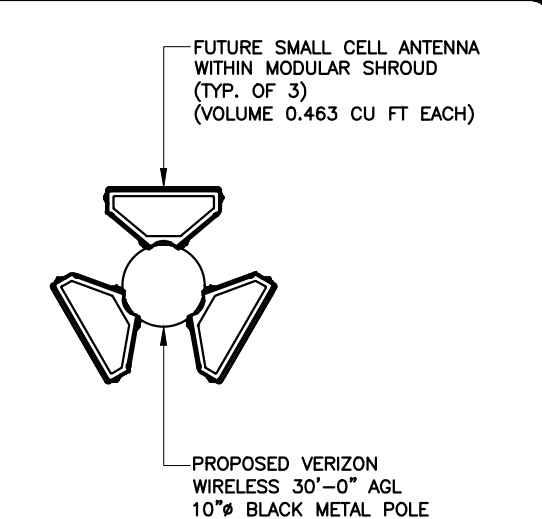
POLE WILL BE PAINTED BLACK AND AS REGULAR MAINTENANCE OCCURS, IF AFFECTED BY WEATHER/WEAR AND TEAR WILL BE REPAINTED TO UPKEEP QUALITY OF AESTHETICS.

NOTE:

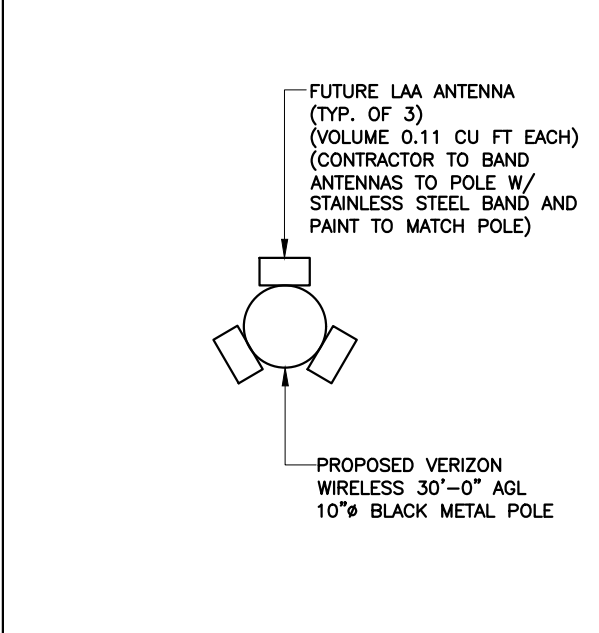
- CONTRACTOR TO FIELD VERIFY ANTENNA MOUNT CONFIGURATION AND PROVIDE MOUNTS OR ADDITIONAL HARDWARE IF REQUIRED TO SUPPORT PROPOSED EQUIPMENT.
- ALL EQUIPMENT AND MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS PER FLORIDA BUILDING CODE (7TH EDITION 2020) AND ANSI/TIA-222-H STRUCTURAL STANDARD 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.



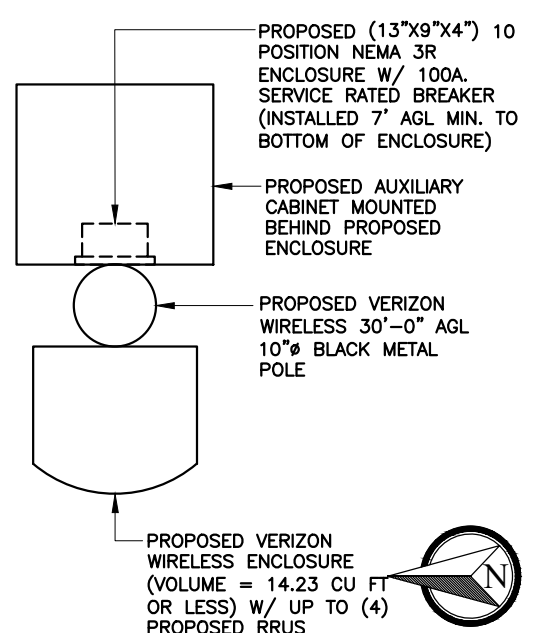
ANTENNA LAYOUT NTS 2



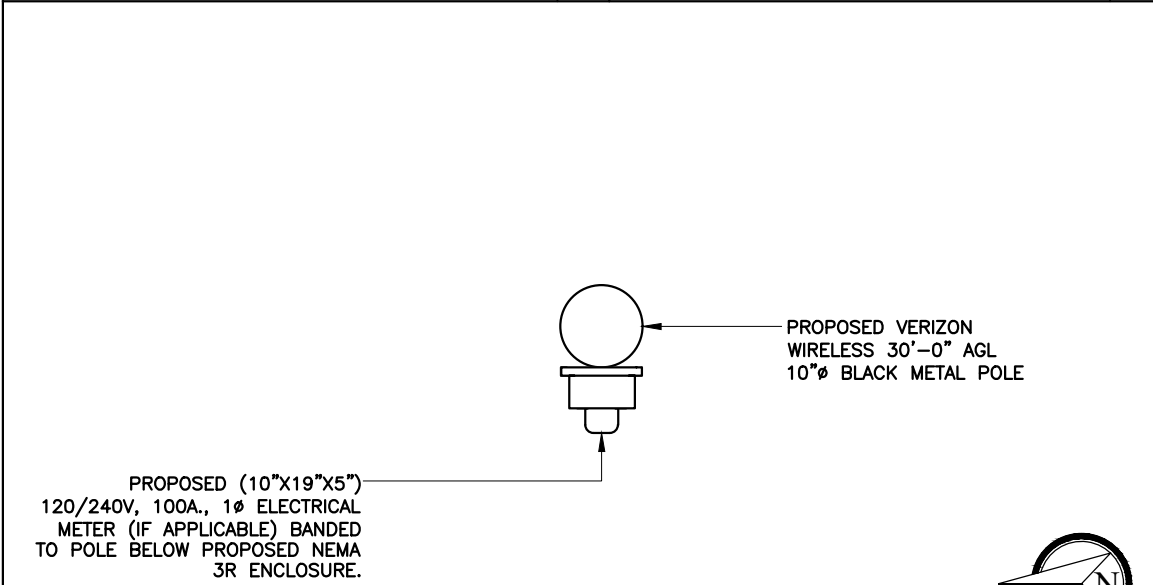
SMALL CELL LAYOUT NTS 3



LAA LAYOUT NTS 4



CABINET LAYOUT NTS 5



EQUIPMENT LAYOUT NTS 6

| REV | DATE | DESCRIPTION |
|-----|----------|----------------------|
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 DRAWN BY: J.MENDEZ
 PROJECT MANAGER: M. MURPHY
 CHECKED BY: M. MURPHY

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SMW ENGINEERING GROUP, INC.
 TOGETHER PLANNING A BETTER TOMORROW

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 TEMPLE TERRACE, FLORIDA 33637
 (813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693

verizon

7701 TELECOM PARKWAY EAST
 TEMPLE TERRACE, FLORIDA 33637

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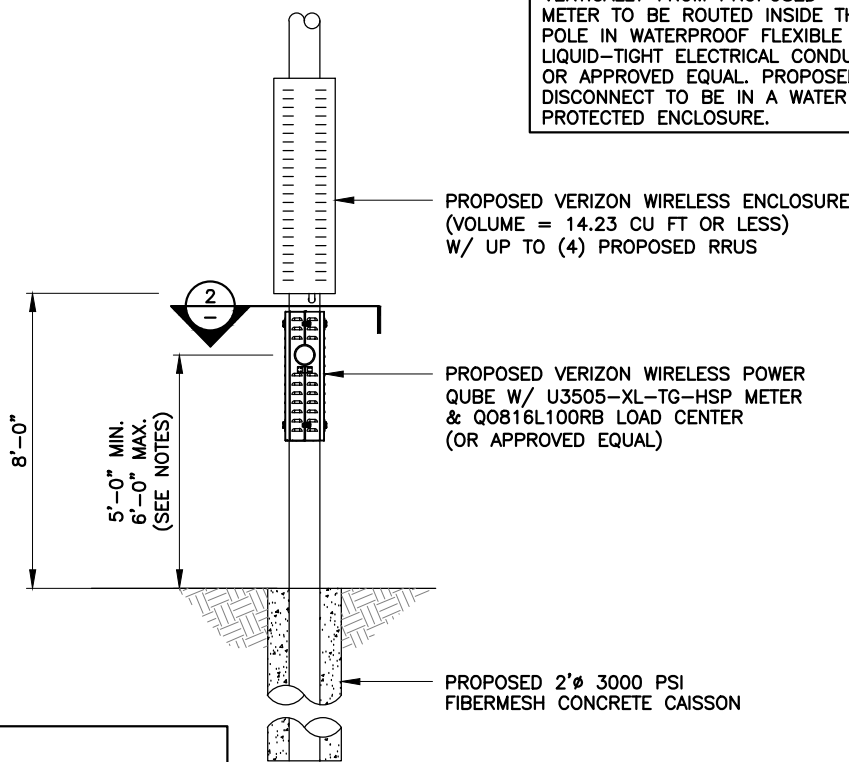
NAPLES GS SC 4
 #16981253

RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
 NAPLES, FLORIDA 34103 (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.



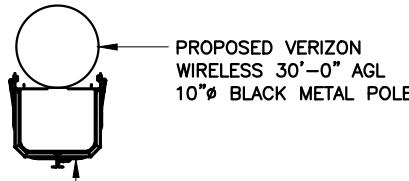
PROPOSED VERIZON WIRELESS ENCLOSURE (VOLUME = 14.23 CU FT OR LESS) W/ UP TO (4) PROPOSED RRUS

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

PROPOSED 2"Ø 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.

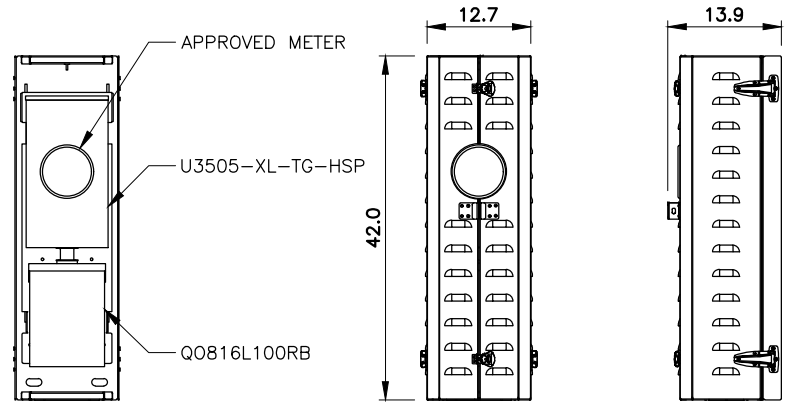
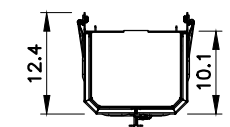
ALTERNATE ELEVATION NTS 1



PROPOSED VERIZON WIRELESS 30'-0" AGL 10"Ø BLACK METAL POLE

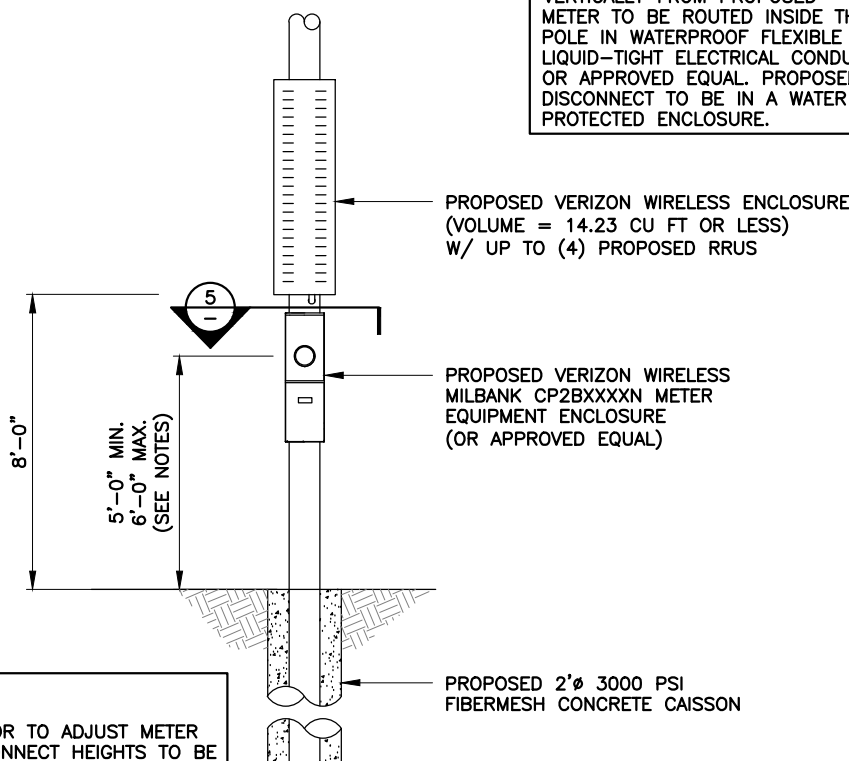
PROPOSED VERIZON WIRELESS POWER QUBE W/ U3505-XL-TG-HSP METER & Q0816L100RB LOAD CENTER (OR APPROVED EQUAL)

SECTION NTS 2



POWER QUBE SPECIFICATIONS NTS 3

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.



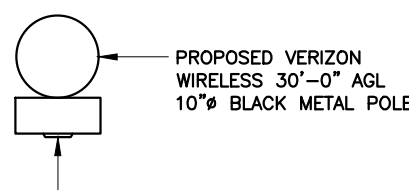
PROPOSED VERIZON WIRELESS ENCLOSURE (VOLUME = 14.23 CU FT OR LESS) W/ UP TO (4) PROPOSED RRUS

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

PROPOSED 2"Ø 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.

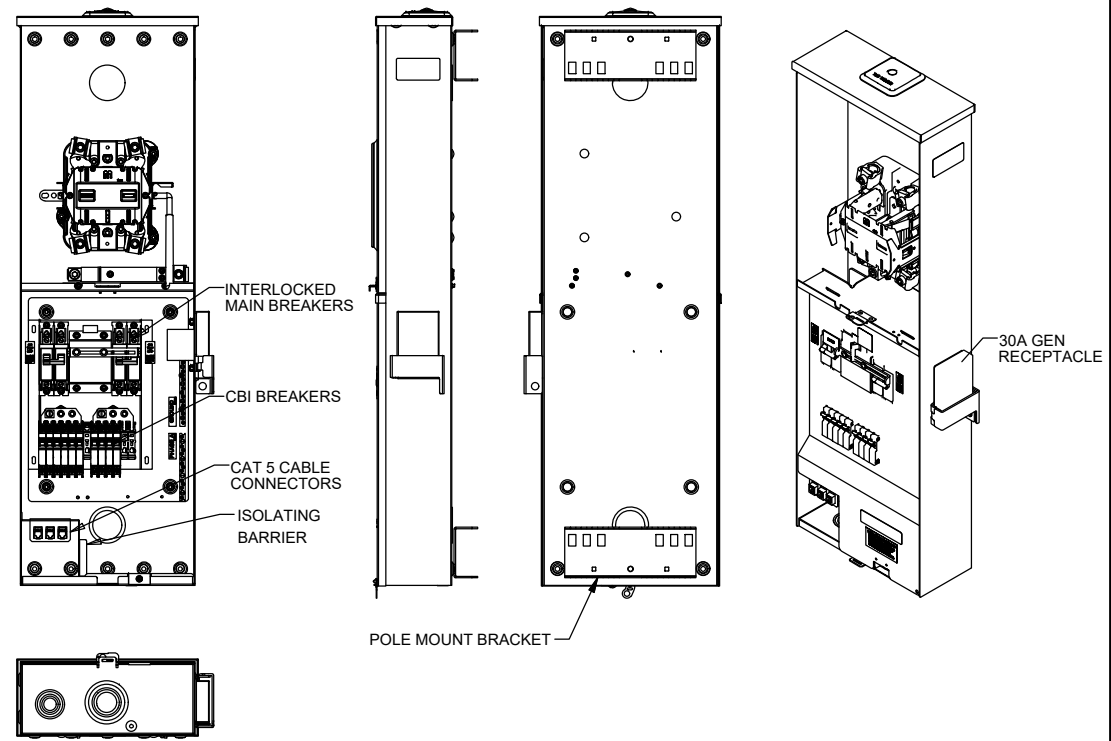
ALTERNATE ELEVATION NTS 4



PROPOSED VERIZON WIRELESS 30'-0" AGL 10"Ø BLACK METAL POLE

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

SECTION NTS 5



MILBANK EQUIPMENT ENCLOSURE SPECIFICATIONS NTS 6

| REV | DATE | DESCRIPTION |
|-----|----------|--------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |

PROJECT NO.: 22-5529
DRAWN BY: J.MENDEZ
PROJECT MANAGER: M. MURPHY
CHECKED BY: M. MURPHY



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



7701 TELECOM PARKWAY EAST
TEMPLE TERRACE, FLORIDA 33637

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NAPLES GS SC 4
#16981253

RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
NAPLES, FLORIDA 34103 (COLLIER COUNTY)

SHEET NAME
ELECTRICAL EQUIPMENT ALTERNATIVES

SHEET NUMBER
C4

| REV | DATE | DESCRIPTION |
|-----|----------|--------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
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| | | |
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| | |
|------------------|-----------|
| PROJECT NO.: | 22-5529 |
| DRAWN BY: | J.MENDEZ |
| PROJECT MANAGER: | M. MURPHY |
| CHECKED BY: | M. MURPHY |

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NAPLES GS SC 4
#16981253

RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
NAPLES, FLORIDA 34103
(COLLIER COUNTY)

SHEET NAME
ENCLOSURE
DETAILS

SHEET NUMBER
C5

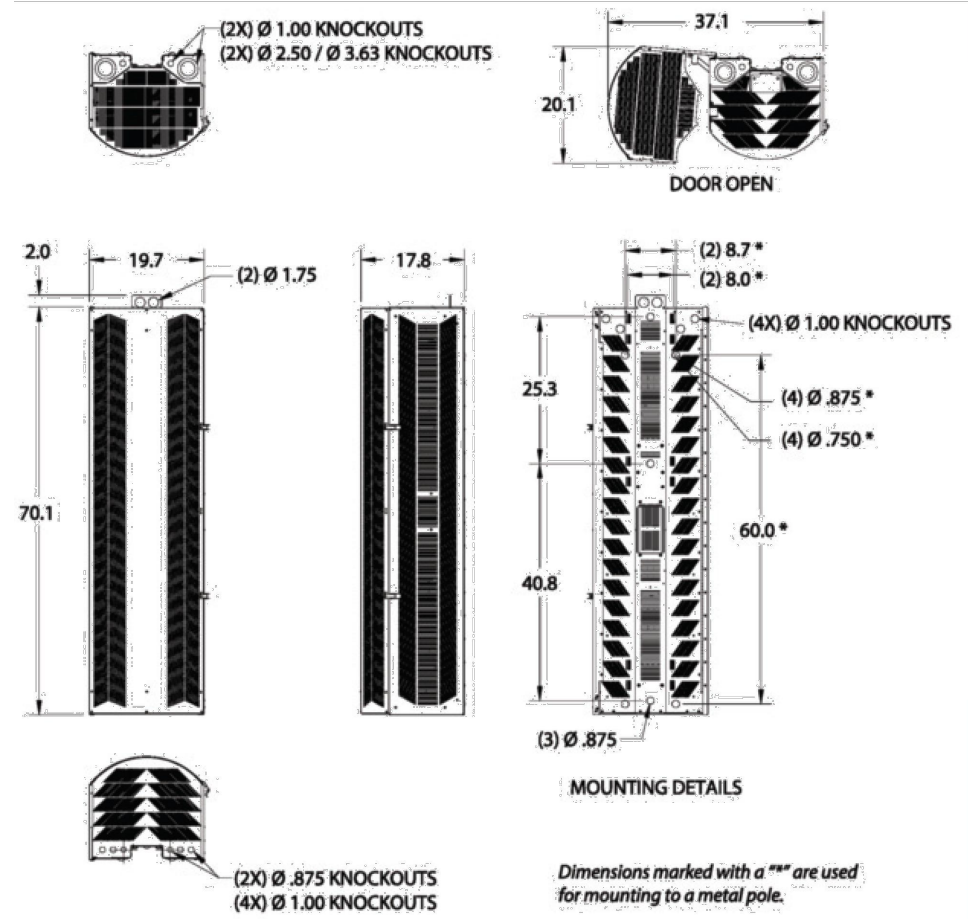
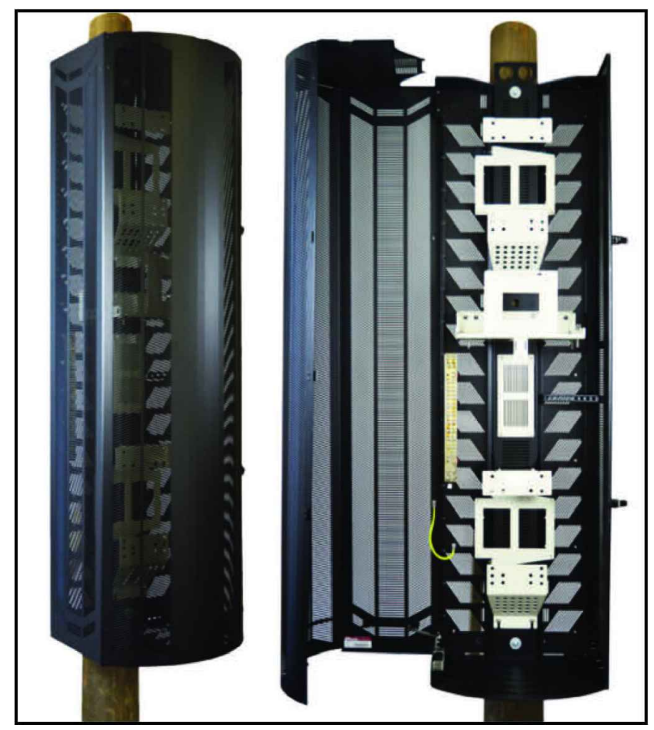
NOTES:

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 LEFT 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 BLACK IN COLOR.

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

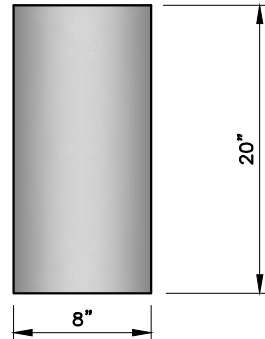
ENCLOSURE:

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



70" HIGH SHRD60-401 DIMENSIONS (in.)

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

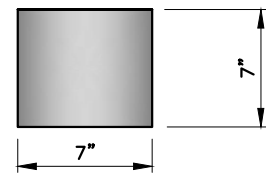


| SMALL CELL ANTENNA | |
|--------------------|-----------------|
| DIMENSIONS (LxWxD) | 20"x8"x5" |
| ANTENNA WEIGHT | 53 LBS |
| VOL. IN CUBIC FT. | 0.463 |

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

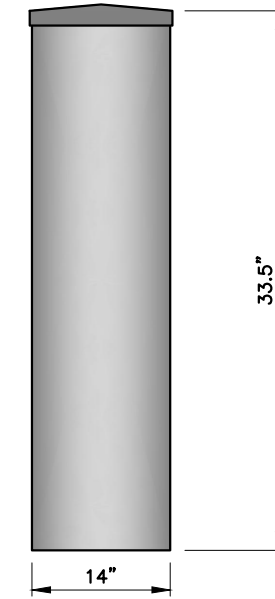
NTS 2

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 ¹ | 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 ¹ | 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 | 08/19/23 | FINAL PLANS ISSUED |

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| PROJECT NO.: | 22-5529 |
| DRAWN BY: | J.MENDEZ |
| PROJECT MANAGER: | M. MURPHY |
| CHECKED BY: | M. MURPHY |

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(813) 615-1422

CERTIFICATE OF AUTHORIZATION 33693



7701 TELECOM PARKWAY EAST
TEMPLE TERRACE, FLORIDA 33637

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NAPLES GS SC 4
#16981253

RIGHT-OF-WAY OF HARBOUR
DRIVE JUST WEST OF LEEWARD
LANE
NAPLES, FLORIDA 34103
(COLLIER COUNTY)

SHEET NAME

ANTENNA
DETAILS

SHEET NUMBER

C6

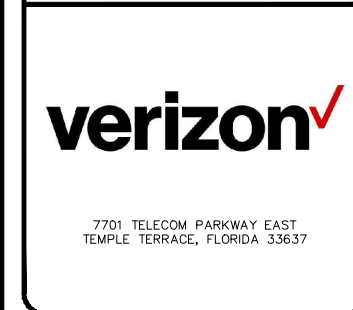
| REV | DATE | DESCRIPTION |
|-----|----------|--------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
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|------------------|-----------|
| PROJECT NO.: | 22-5529 |
| DRAWN BY: | J.MENDEZ |
| PROJECT MANAGER: | M. MURPHY |
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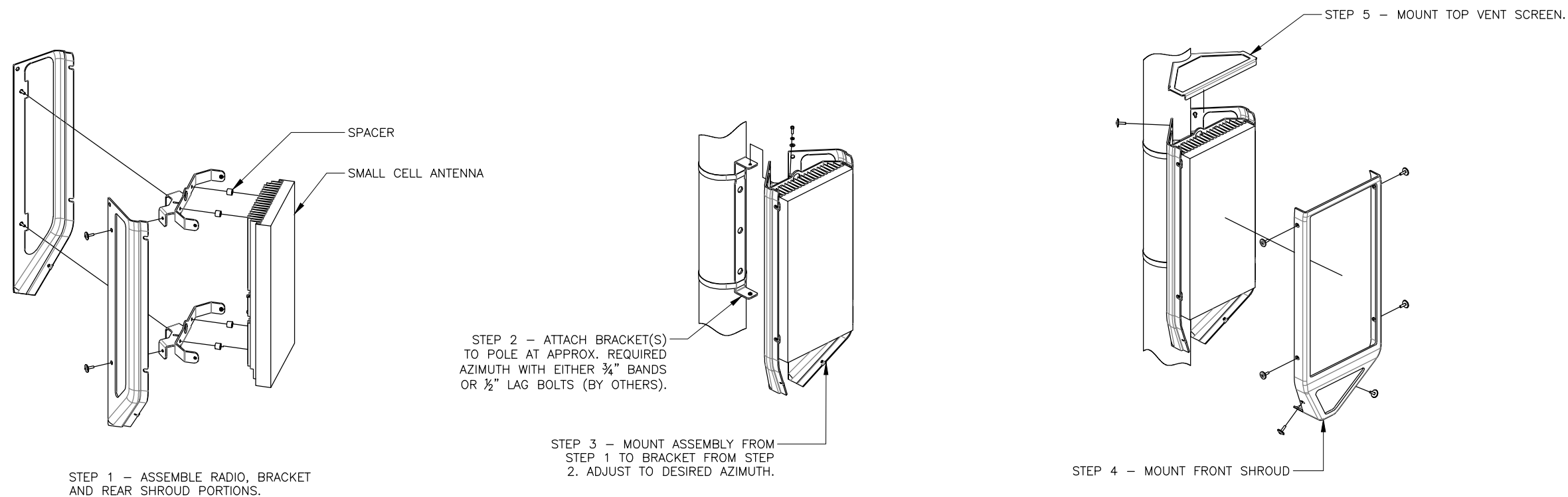


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NAPLES GS SC 4
 #16981253
 RIGHT-OF-WAY OF HARBOUR
 DRIVE JUST WEST OF LEEWARD
 LANE
 NAPLES, FLORIDA 34103
 (COLLIER COUNTY)

SHEET NAME
 ANTENNA MOUNTING
 DETAIL

SHEET NUMBER
 C7



KEY:

| | |
|--|---------------------------|
| | WATER MAIN |
| | RECLAIMED WATER LINE |
| | STORMWATER MAIN |
| | SANITARY GRAVITY MAIN |
| | HIGH DENSITY POLYETHYLENE |

BILL OF MATERIALS:

| | | |
|-------------------|-----------|---------|
| • WIRE SIZE: | #300 KCML | #3/0 |
| • WIRE COUNT: | 3 | 3 |
| • WIRE LENGTH: | 395' ea | 395' ea |
| • WIRE TYPE: | ALUMINUM | COPPER |
| • HANDHOLE COUNT: | 2 | 2 |

| REV | DATE | DESCRIPTION |
|-----|----------|----------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
| 1 | 11/16/23 | REVISED PER COMMENTS |

PROJECT NO.: 22-5529

DRAWN BY: J.MENDEZ

PROJECT MANAGER: M. MURPHY

CHECKED BY: M. MURPHY

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verizon

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NAPLES GS SC 4
#16981253

RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
NAPLES, FLORIDA 34103
(COLLIER COUNTY)

| | |
|--------------|--------------------|
| SHEET NAME | UTILITY POWER PLAN |
| SHEET NUMBER | E2 |



UTILITY POWER PLAN

NTS 1

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.

| REV | DATE | DESCRIPTION |
|-----|----------|----------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
| 1 | 11/16/23 | REVISED PER COMMENTS |
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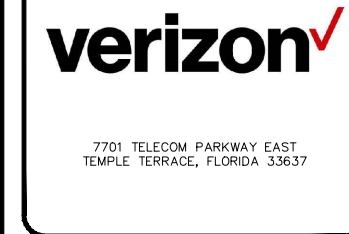
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| PROJECT NO.: | 22-5529 |
| DRAWN BY: | J.MENDEZ |
| PROJECT MANAGER: | M. MURPHY |
| CHECKED BY: | M. MURPHY |

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NAPLES GS SC 4
 #16981253

RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
 NAPLES, FLORIDA 34103
 (COLLIER COUNTY)

SHEET NAME
 TYPICAL CROSS-SECTION

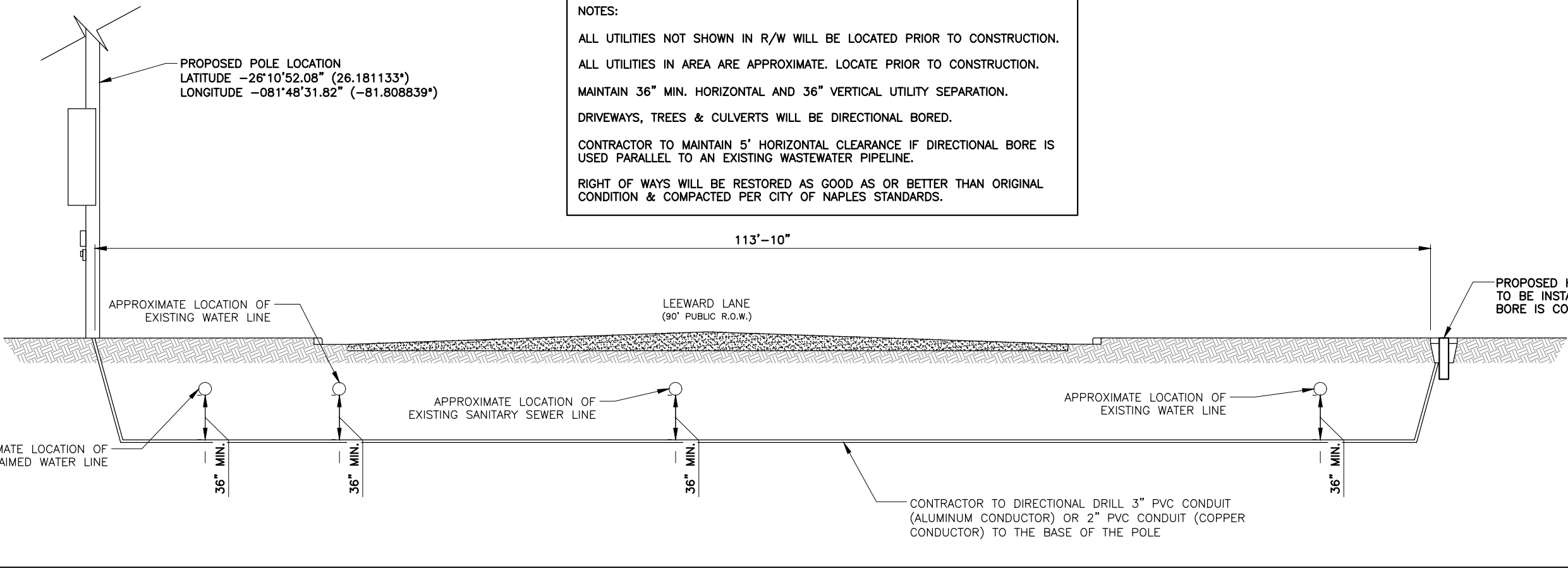
SHEET NUMBER
 E3

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 WAY WILL BE RESTORED AS GOOD AS OR BETTER THAN ORIGINAL CONDITION & COMPACTED PER CITY OF NAPLES STANDARDS.



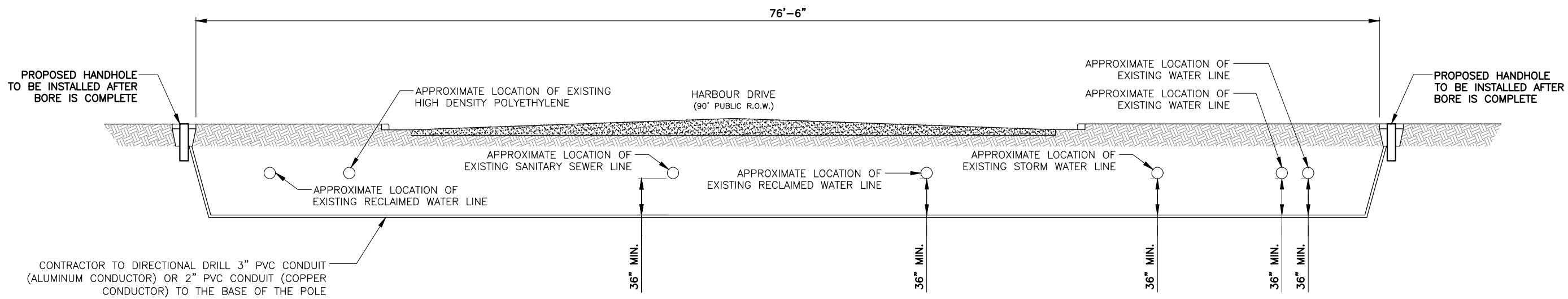
TYPICAL CROSS SECTION - EAST ELEVATION NTS 1

NOTES:

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 ALL UTILITIES IN AREA ARE APPROXIMATE. LOCATE PRIOR TO CONSTRUCTION.
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RIGHT OF WAY WILL BE RESTORED AS GOOD AS OR BETTER THAN ORIGINAL CONDITION & COMPACTED PER CITY OF NAPLES STANDARDS.



TYPICAL CROSS SECTION - WEST ELEVATION NTS 2

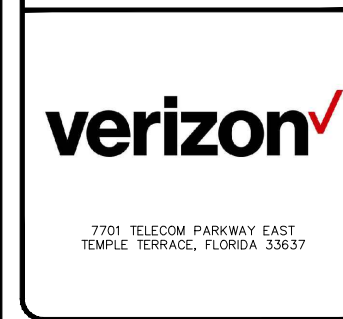
| REV | DATE | DESCRIPTION |
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| 0 | 08/19/23 | FINAL PLANS ISSUED |
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| DRAWN BY: | J.MENDEZ |
| PROJECT MANAGER: | M. MURPHY |
| CHECKED BY: | M. MURPHY |

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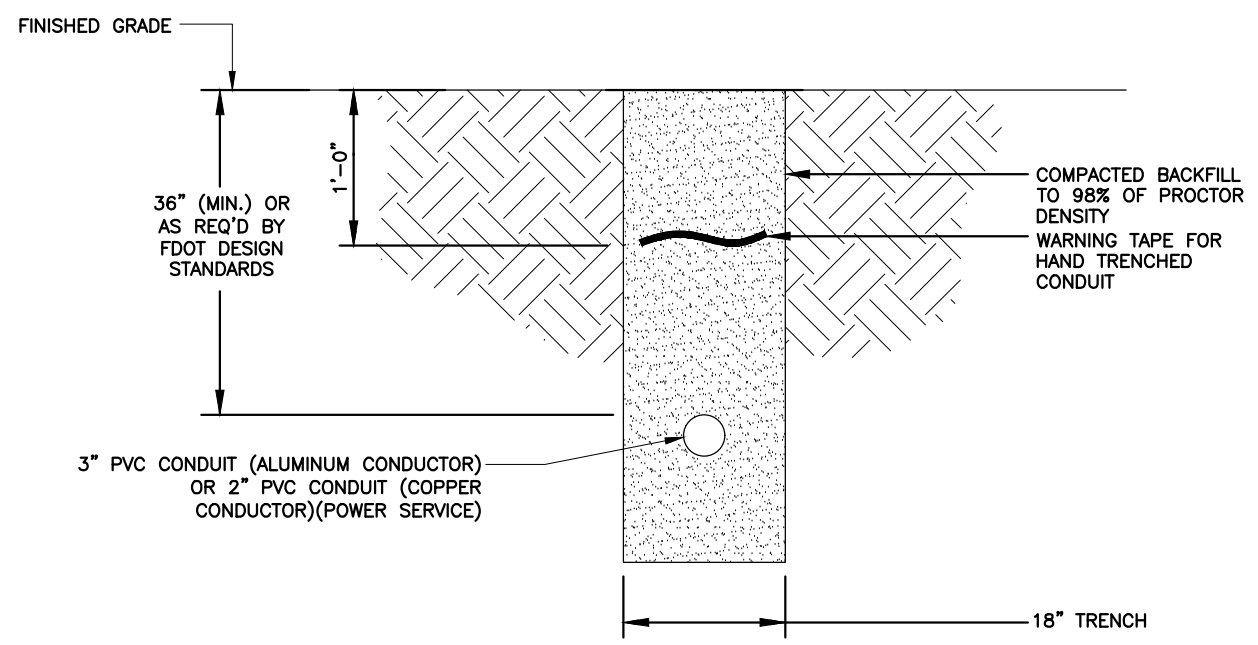


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NAPLES GS SC 4
 #16981253
 RIGHT-OF-WAY OF HARBOUR
 DRIVE JUST WEST OF LEEWARD
 LANE
 NAPLES, FLORIDA 34103
 (COLLIER COUNTY)

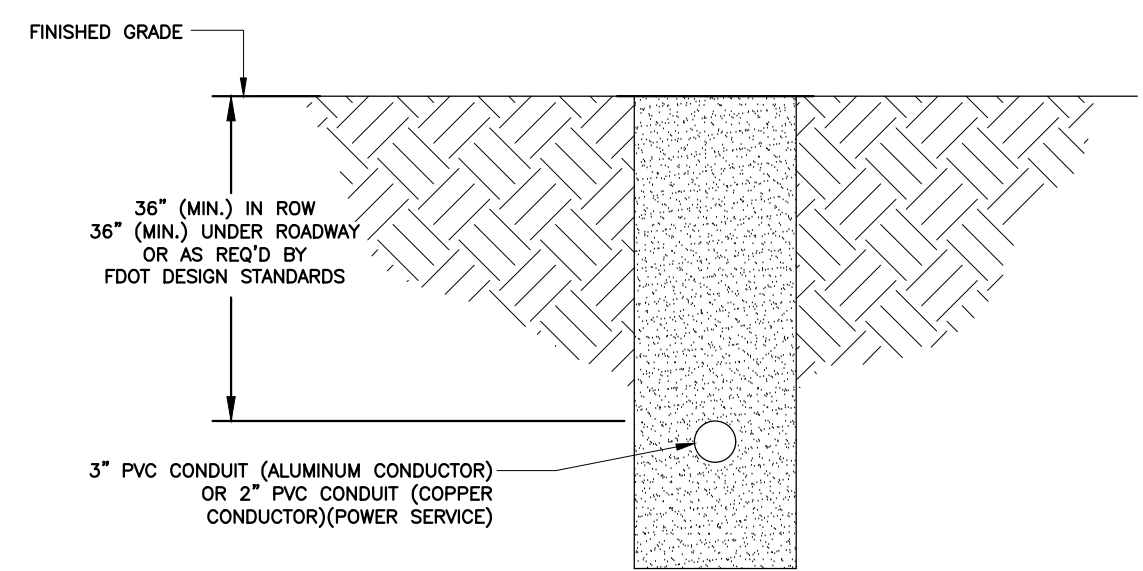
SHEET NAME
 ELECTRICAL
 DETAILS

SHEET NUMBER
 E4



TRENCHING DETAIL

NTS 1




BORING DETAIL

NTS 2

| REV | DATE | DESCRIPTION |
|-----|----------|--------------------|
| 0 | 08/19/23 | FINAL PLANS ISSUED |
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TEMPLE TERRACE, FLORIDA 33637

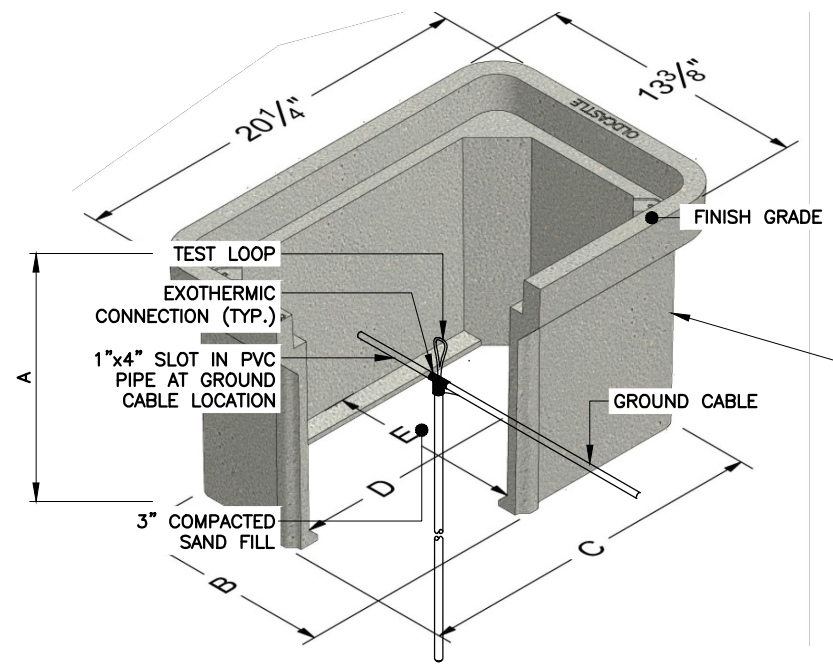
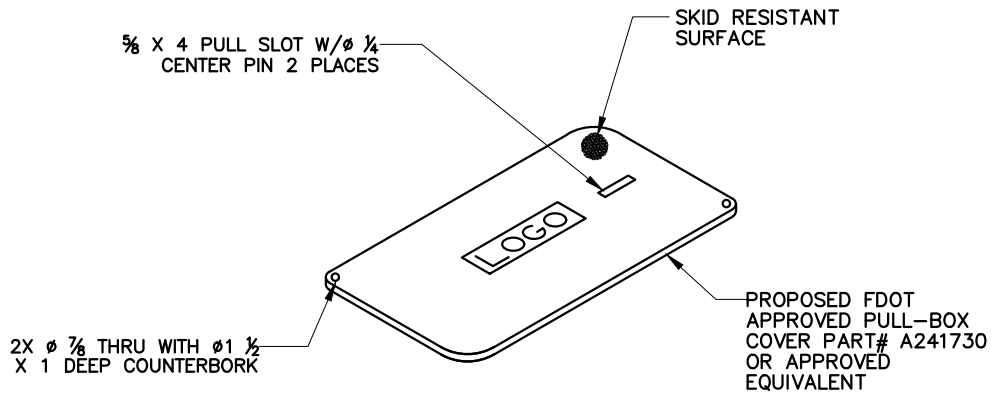
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NAPLES GS SC 4
#16981253

RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
NAPLES, FLORIDA 34103
(COLLIER COUNTY)

SHEET NAME
PULL-BOX DETAILS

SHEET NUMBER
E5

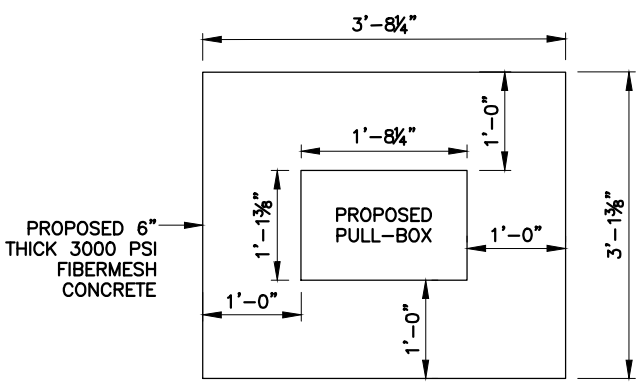
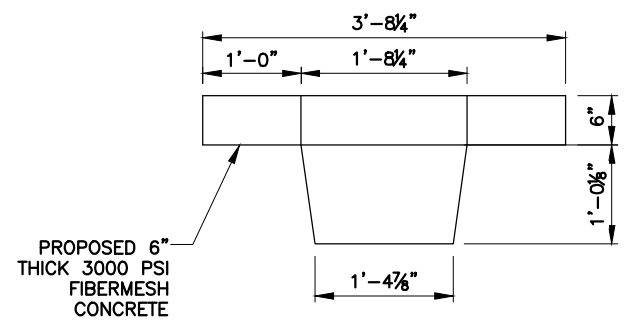


PROPOSED FDOT APPROVED PULL-BOX PART# B141730 OR APPROVED EQUIVALENT

NOTES:

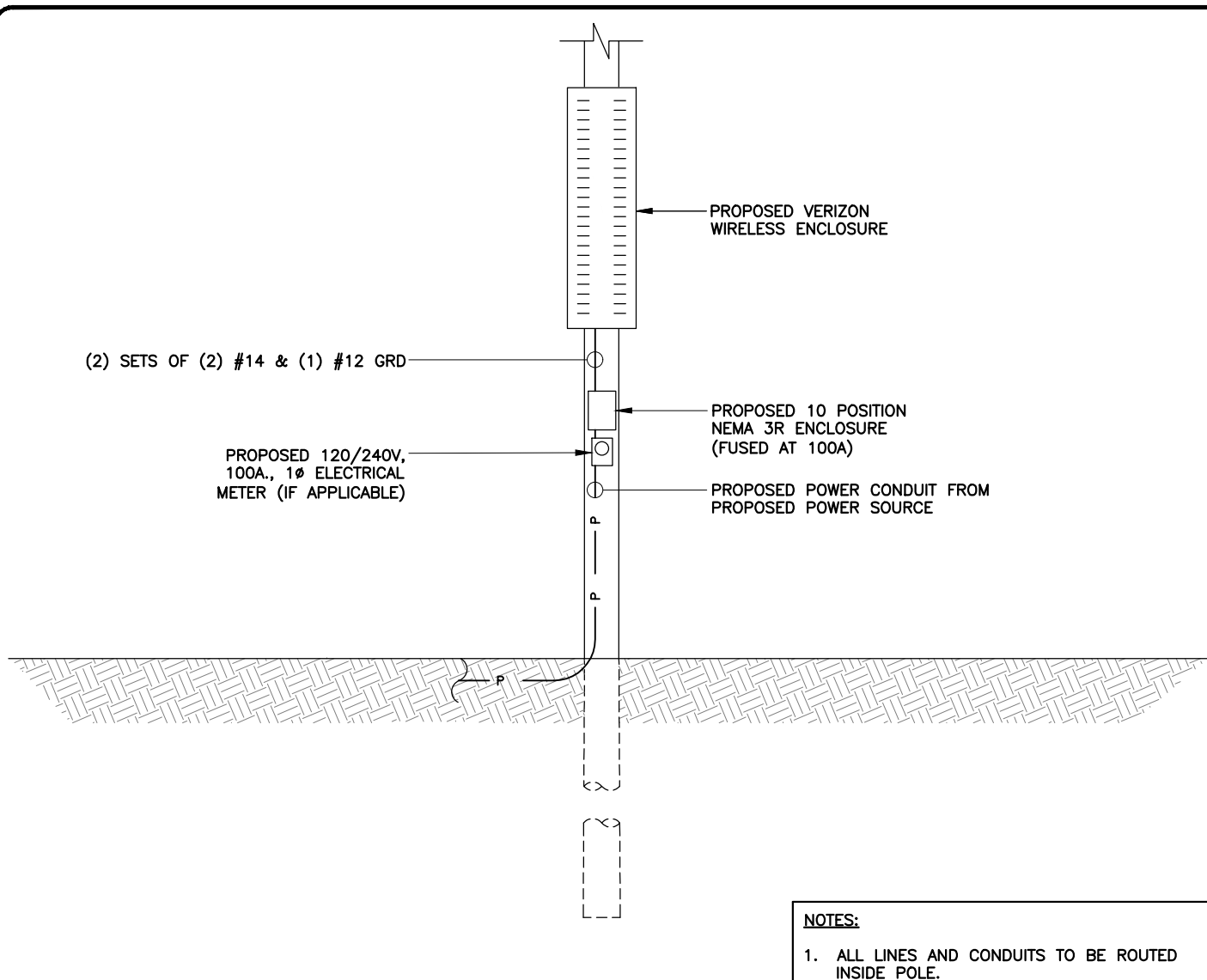
- CONTRACTOR SHALL PROVIDE PRE-CAST CONCRETE INSPECTION WELL WITH CAST IRON TRAFFIC RATED LID WHEN WELL WILL BE IN AN AREA WHERE THEY CAN BE DAMAGED
- ALL WORK SHALL CONFORM TO THE LOCAL BUILDING CODES. DEPTH MAY VARY.

| | 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 |



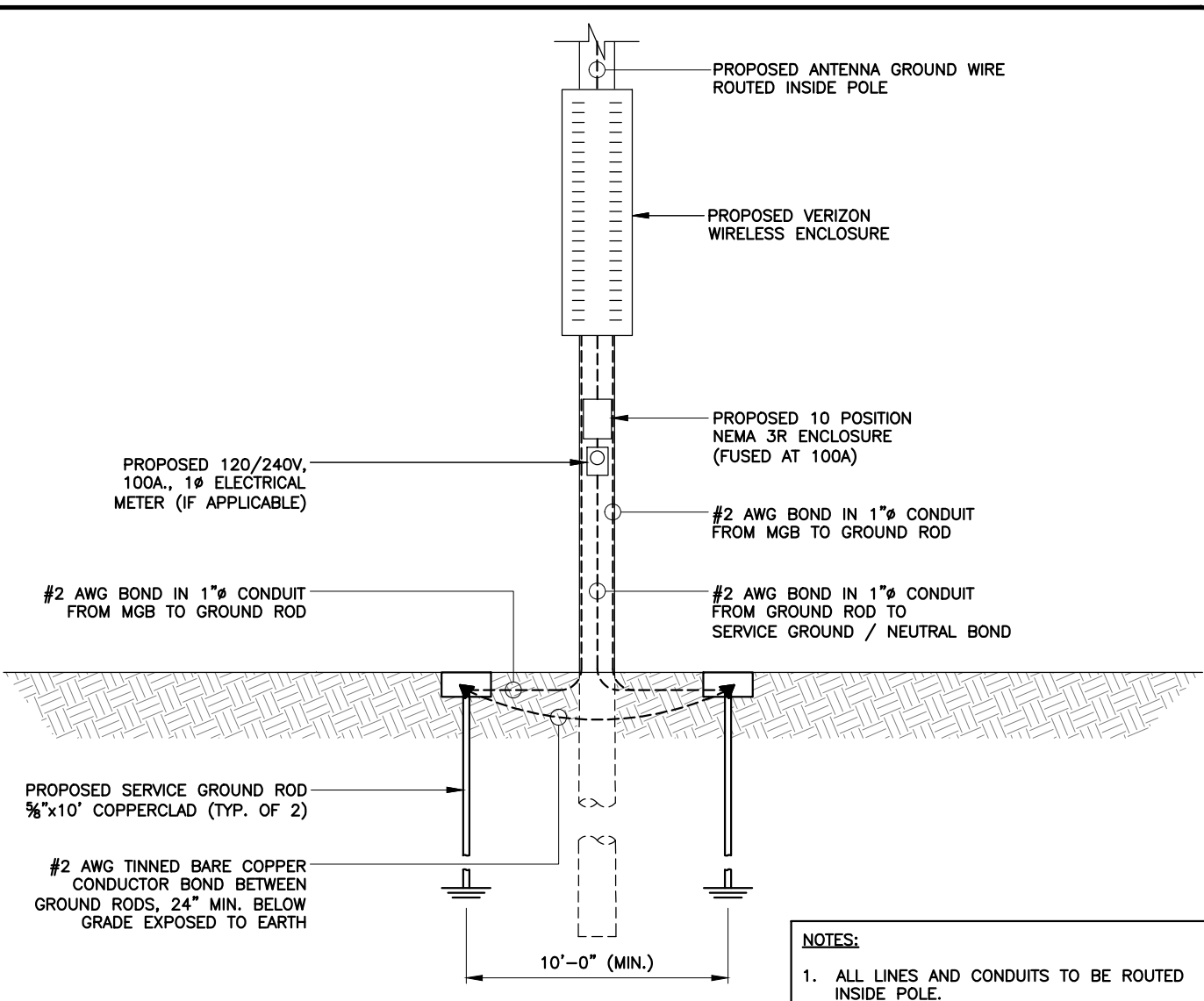
NOTE:
THIS ASSEMBLY IS RATED FOR A STATIC DESIGN LOAD OF 15,000 LBS. OVER A 10 X 10 AREA AND MUST PASS A MINIMUM STATIC TEST LOAD OF 22,500 LBS.

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



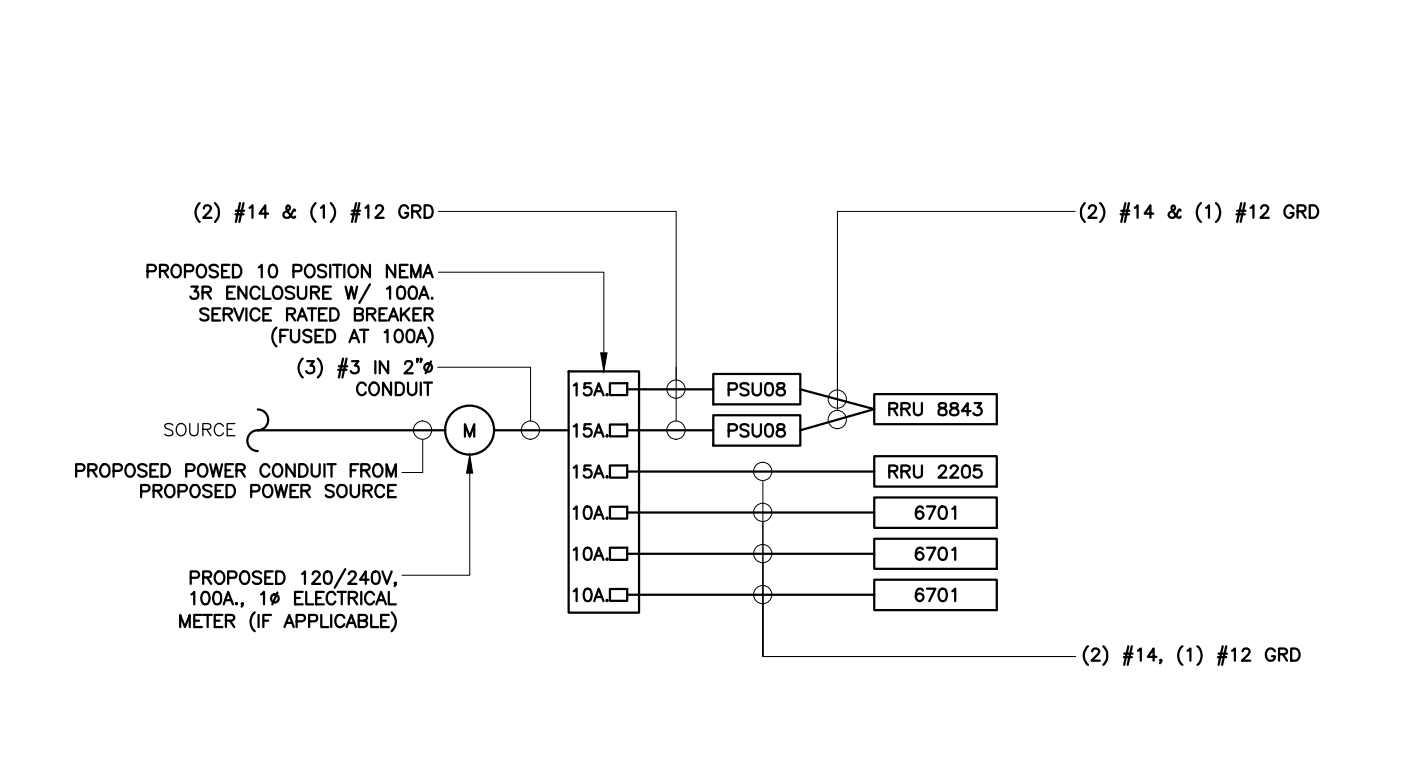
NOTES:
1. ALL LINES AND CONDUITS TO BE ROUTED INSIDE POLE.

UTILITY ROUTING DETAIL NTS 1



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

GROUNDING PLAN DETAIL NTS 2



ONE-LINE DIAGRAM 3

| PANEL NAME: | | VERIZON WIRELESS | | | PANEL RATING | | | 100 | AMPS |
|--------------------------|-------------|------------------|-----|------|--------------|------|-----|-------|------|
| LOCATION: | | NAPLES GS SC 4 | | | 120/240 | | | VOLTS | |
| PHASE | 1 | X | MCB | 100 | AMP | | | | |
| WIRE | 3 | MAIN LUG ONLY | | | | | | | |
| CKT | | KVA | | | AMP | WIRE | GND | COND | |
| NO. | DESCRIPTION | A | B | POLE | | | | | |
| 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 | - | - | - | - | - | - | | |
| SUB TOTAL KVA (CONT) | | 1.5 | 1.8 | | | | | | |
| SUB TOTAL KVA (NON-CONT) | | 0 | 0 | | | | | | |
| TOTAL KVA | | | | | 4.1 | | | | |
| NON-CONT + 125% CONT. | | | | | 17.2 | | | | |
| TOTAL AMPS | | | | | 17.2 | | | | |

PANEL SCHEDULE 4

| REV | DATE | DESCRIPTION |
|-----|----------|--------------------|
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DRAWN BY: J.MENDEZ
PROJECT MANAGER: M. MURPHY
CHECKED BY: M. MURPHY

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NAPLES GS SC 4
#16981253
RIGHT-OF-WAY OF HARBOUR DRIVE JUST WEST OF LEEWARD LANE
NAPLES, FLORIDA 34103
(COLLIER COUNTY)
SHEET NAME
UTILITY ROUTING / GROUNDING PLAN
SHEET NUMBER
E6