HISTORIC AND DESIGN REVIEW COMMISSION

October 21, 2020

HDRC CASE NO:	2020-456
ADDRESS:	ROW near 505 LIVE OAK ST
LEGAL DESCRIPTION:	NCB 556 BLK 41 LOT 18 COMFORT SUITES
ZONING:	D
CITY COUNCIL DIST.:	2
APPLICANT:	Lourdes Mendoza/Extenet Systems
OWNER:	ASNDSATX LLC
TYPE OF WORK:	Installation of new pole for network node equipment
APPLICATION RECEIVED:	August 24, 2020
60-DAY REVIEW:	Not applicable due to City Council Emergency Orders
60-DAY REVIEW: CASE MANAGER:	Huy Pham

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to install a new pole for network node equipment at 29.426180, -98.480693, in the right-of-way near 505 Live Oak.

APPLICABLE CITATIONS:

Historic Design Guidelines

6. Non-Residential and Mixed Use Streetscapes

A. STREET FURNITURE

i. *Historic street furniture*—Preserve historic site furnishings, including benches, lighting, tree grates, and other features.

ii. *New furniture*—Use street furniture such as benches, trash receptors, tree grates, and tables that are simple in design and are compatible with the style and scale of adjacent buildings and outdoor spaces when historic furnishings do not exist.

UDC Sec. 37 - Appendix A. - Right-of-way Network Node Design Manual

b. Design District Aesthetic Requirements.

In addition to the design requirements in Division III of this Manual, the following aesthetic requirements shall apply in Design Districts:

- 1. New node support poles in districts designated as Design Districts in this Manual shall be placed within ten feet of interior lot lines.
- 2. In no event shall new node support poles be placed in front of the front façade of primary structures on any property designated as Historic or within fifteen hundred (1500) feet of the brass monument viewshed marker in front of a structure designated by the United Nations as a UNESCO World Heritage site.
- 3. Network nodes, node support poles, and related equipment shall require camouflage or concealment measures to mitigate the impact or improve the aesthetics of the installation, as determined by the Historic Preservation Officer based on the unique circumstances of the design district or impacted property.
 - A. New network nodes mounted to existing poles shall be low profile and flush mounted to the greatest extent feasible. Network nodes must be painted to match the support pole or structure on which they are mounted.
 - B. The installation of new node support poles is discouraged in Historic Districts, Downtown "D", River Improvement Overlay Districts, Viewshed Protection and Mission Protection Overlay Districts. The Historic Preservation Officer may require concealment of the support pole in the form of aesthetically appropriate street lamps, site elements, district signage, or other stealth methods. The color of any new support pole or concealment solution shall be determined by the Historic Preservation Officer based on site specific conditions.
 - i. New node support poles must generally be located at commercial corners and intersections.
 - ii. New node support poles must be separated from other node support poles or existing poles by a distance of 250 feet.
 - iii. Where a separation requirement cannot be met, network nodes are preferred to be mounted to existing poles or installed with a stealth method.

- iv. The height of new node support poles should not exceed the established predominant height of other poles and historic site elements located within 500 feet of the proposed installation.
- v. New node support poles must be painted and not exceed 8" in diameter at the widest portion of the pole.
- C. Ground-mounted equipment must be integrated into the overall design of an installation, camouflaged or concealed based on site specific conditions, and positioned to mitigate visual or physical obstructions to nearby historic features as recommended by the Historic Preservation Officer.
- c. Decorative Poles.

In accordance with Chapter 284, installation or attachment of wireless communications equipment, including antennas, network nodes, transport facilities, and related equipment is prohibited on all decorative streetlight poles in Design Districts.

(Ord. No. 2017-08-31-0609, § 1, 8-31-17)

FINDINGS:

- a. PURVIEW The applicant has proposed to install a new wood pole featuring network node equipment and luminaire arm at 29.426180, -98.480693, in the right-of-way near 505 Live Oak. The proposed location is within the Central Business District (Downtown). Per the Unified Development Code Sec. 37, the network node must be in compliance with Appendix A. Right-of-way network node design manual: Division IV. General Aesthetic Requirements and Division V. Additional Aesthetic Requirements in Design Districts.
- b. PROJECT DESCRIPTION The applicant has provided the following project description: "Extenet-Node-SA1001BA_41LAB COSA-10703-20200802 Originally submitted to COSA on 3/5/20. Small Cell Node to be placed on a proposed Extenet Pole at 29.426180, -98.480693 for Extenet Systems. Shroud to be placed on the pole with an Omni at the top of the pole. Pole is located on the south side of Live Oak and Dawson. The COSA issued address is 425 Live Oak St, San Antonio, TX 78205."
- c. LOCATION The applicant has proposed to install a new wood pole featuring network node equipment and luminaire arm at 29.426180, -98.480693, in the right-of-way near 505 Live Oak. The proposed location is within the Central Business District (Downtown). The proposed location is adjacent to the hotel parking garage structure and across the street to two vacant lots. Per the Design Manual 3.B.i., new poles must be generally located at commercial corners and intersections. Staff finds the proposed poll does not bisect any historic or commercial facades nor disrupt the pedestrian experience.
- d. SEPARATION The applicant has proposed to install the new pole within the immediate block as multiple existing utility poles. Per the Design Manual 3.B.ii., new poles must be separated from existing poles by 250 feet. Staff finds that the proposed location is adequately separated.
- e. COLLOCATION Per the Design Manual 3.B.iii, where a separation requirement cannot be met, new nodes are preferred to be mounted to existing poles or installed with a stealth method. Staff finds that a collocation on existing poles should be explored prior to consideration of a new stealth pole. A letter from the owner-operator of the existing nearby poles (CPS Energy) and/or an engineer's letter noting the feasibility of collocation will suffice as a supporting document for this finding.
- f. HEIGHT The applicant has proposed to install a wood pole including node equipment featuring a total of thirty feet (30') from grade. Per the Design Manual 3.B.iv., the height of new node support poles should not exceed the established predominant height of other poles and historic site elements located within 500 feet of the proposed installation. Staff finds that the proposed height is subordinate to existing poles within proximity.
- g. DIAMETER The applicant has proposed to install a pole that is typical width of a Class 3 wood utility pole. Per the Design Manual 3.B.v., new poles should not exceed 8 inches (8") in diameter at the widest portion of the pole. Staff finds that the proposed pole width to by typical of existing wood utility poles.
- h. DESIGN The applicant has proposed to install a wood pole that features a cylindrical antenna at the top, a luminaire arm, a rectangular cabinet radio at mid-pole, and conduit and meter/disconnect approaching pedestrian and ground level. The applicant referenced existing wood utility poles in selecting the pole type in this location and included a luminaire arm in an effort to meet stealth and multi-purpose provisions. Per the Design Manual 3.B.: *The Historic Preservation Officer may require concealment of the support pole in the form of aesthetically appropriate street lamps, site elements, district signage, or other stealth methods. The color of any new support pole or concealment solution shall be determined by the Historic*

Preservation Officer based on site specific conditions. Staff finds the proposed design adequately relates to surrounding features without detracting from historic features or the pedestrian experience with the stipulation that all network node equipment is painted, manufactured or screened to mimic the pole color.

i. TRENCHING –If approved, any disturbance of sidewalk or streetscaping should be restored to the condition prior to installation. The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

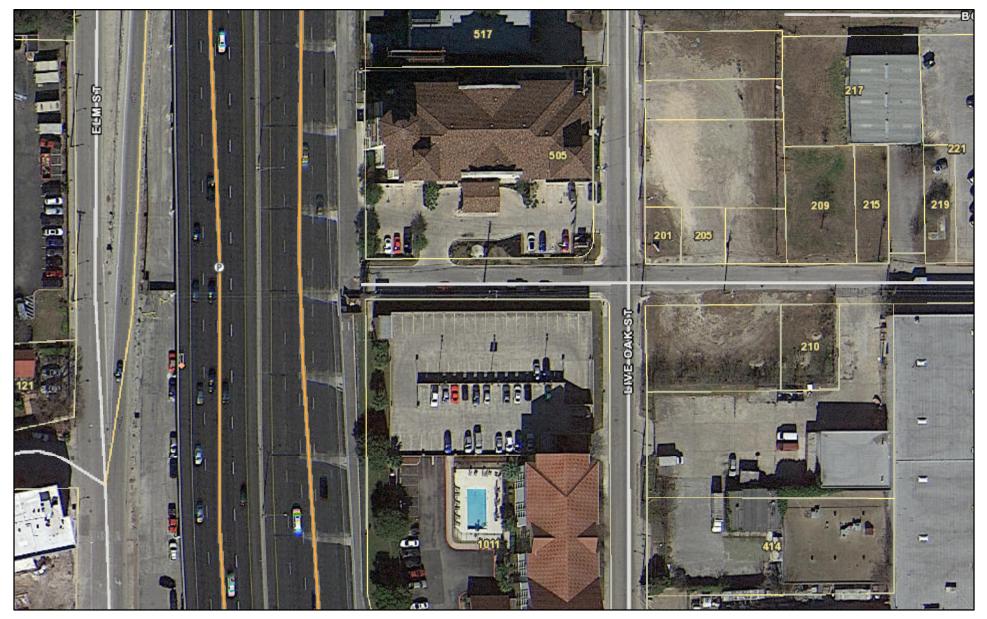
RECOMMENDATION:

Staff recommends approval of the new network pole based on findings b through h with the stipulation that all network node equipment is painted, manufactured or screened to mimic the pole color.

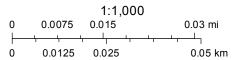
If approved, any disturbance of sidewalk or streetscaping should be restored to the condition prior to installation. The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

Approval from the Historic Design Review Commission does not omit or supersede any additional permissions required by CPS Energy or related permitting City departments.

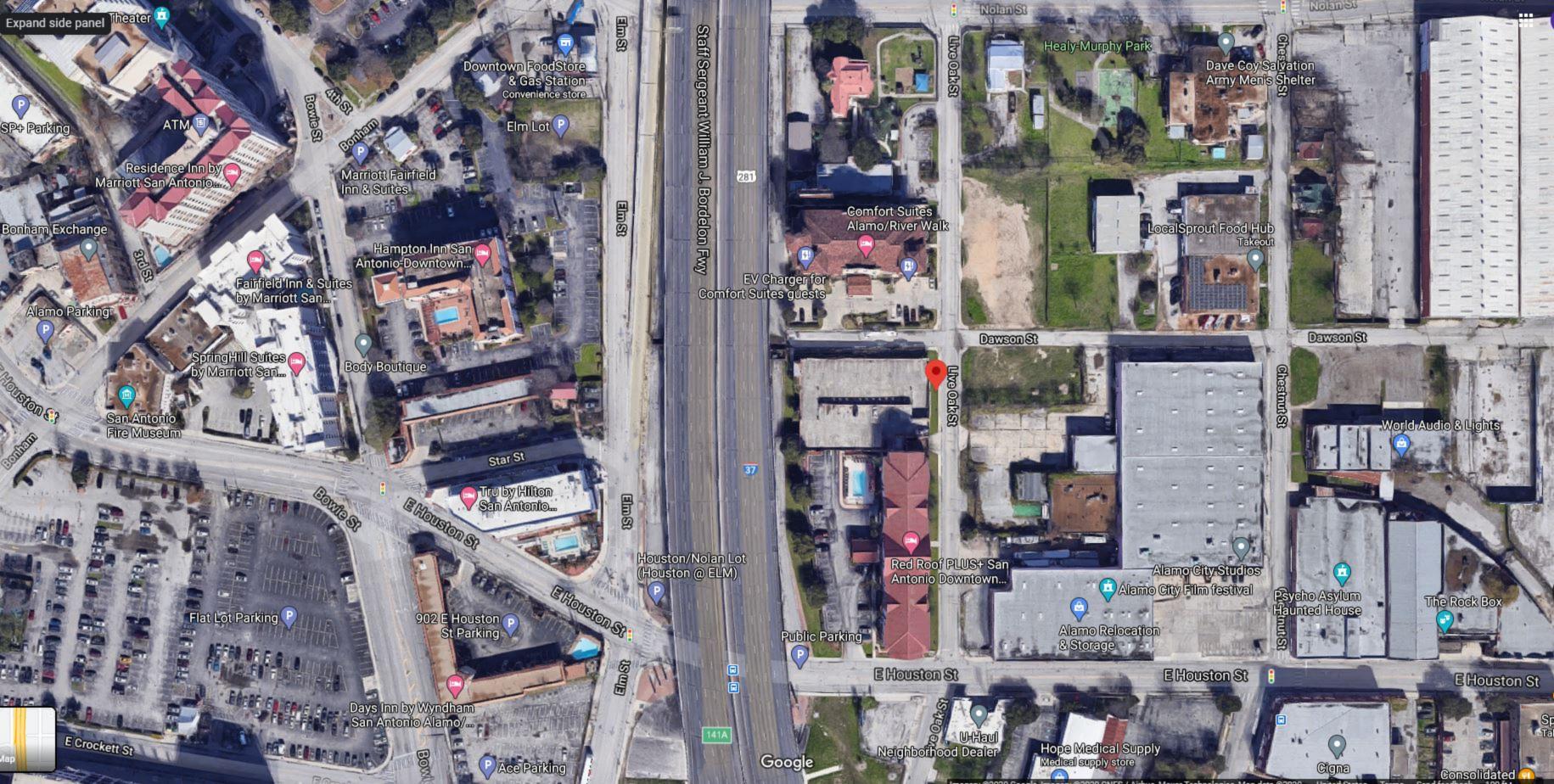
ROW near 505 Live Oak



October 13, 2020









Location 1:

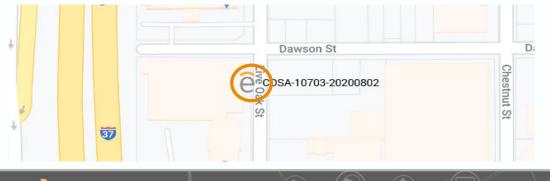
- Id: COSA-10703-20200802
- Name: Extenet-Node-SA1001BA_41LAB
- TMO Node ID: SA1001BA_41LAB
- Pole Type: New Wood Pole
- Pole Owner: Extenet
- Location: 432 Live Oak Street, San Antonio, TX 78202
- Coordinates: 29.42618, -98.480693
- COA Request #: 2020-19432

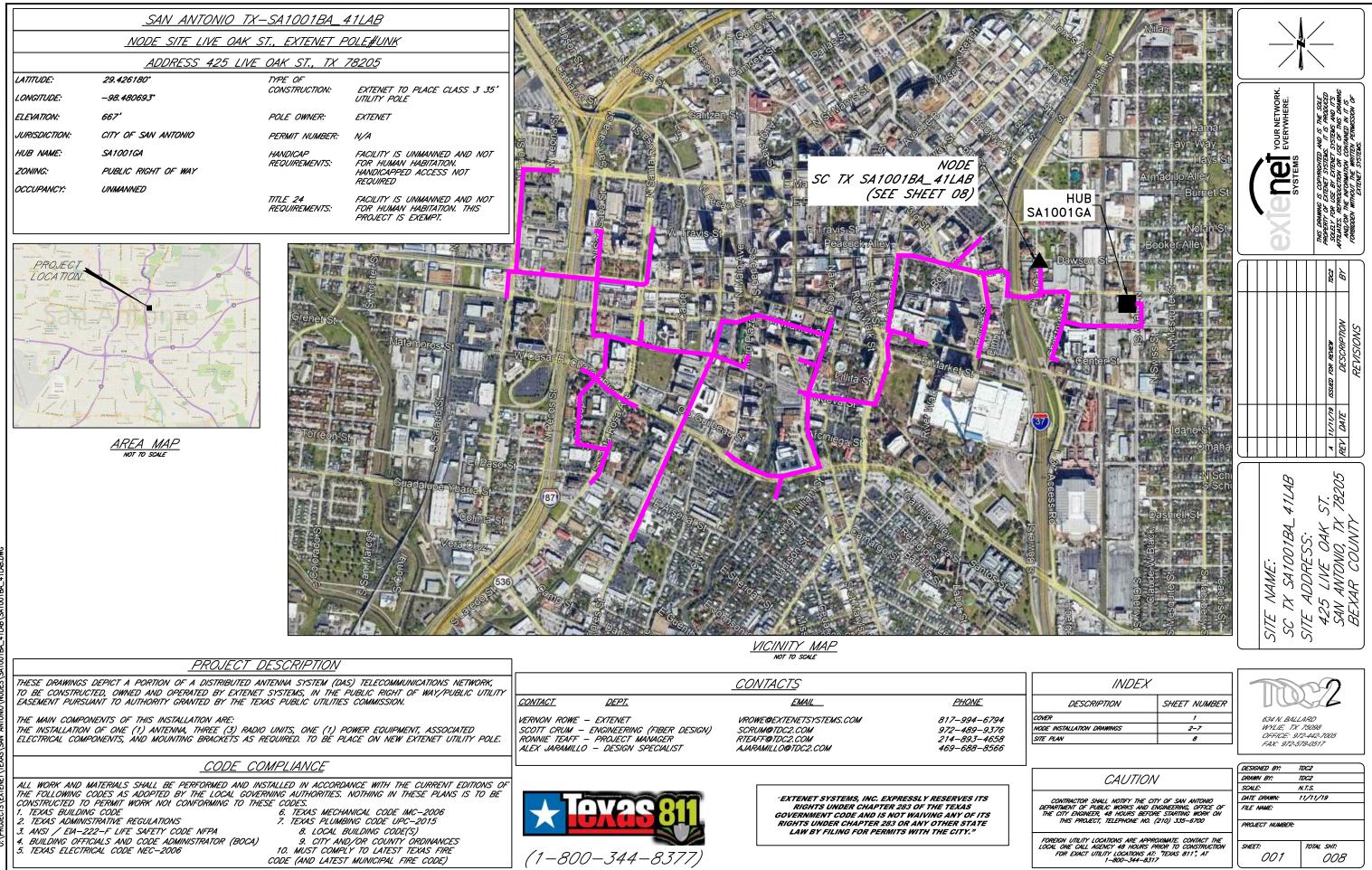
• Node Details:

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- Existing wood poles in area are not feasible for Extenet to use due to not being able to meet CPS' standards.
- Wood pole fits surrounding area poles
- Extenet to add a luminaire for street lighting.
- Fiber and power would come underground to pole for a clean install







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STANDARD GROUNDING NOTES:

- 1. THE COMPLETED GROUNDING SYSTEM SHALL CONFORM TO TIA-607-B, AND SHALL BE TESTED VIA AN APPROVED GROUND RESISTANCE TEST UNIT (I.E., STAKELESS CLAMP-ON GROUND RESISTANCE METER, OR TWO-POINT / THREE-POINT FALL OF POTENTIAL TESTER, IN ACCORDANCE WITH THE MANUFACTURER'S TEST PROCEDURES) TO ACHIEVE / DOCUMENT GROUND RESISTANCE OF 5 OHMS OR LOWER. 2.GROUND RODS SHALL BE CONSTRUCTED OF COPPER-CLAD STEEL AND EITHER OF
- THE FOLLOWING TWO SIZE OPTIONS IS APPROVED, AS MAY BE REQUIRED TO ACHIEVE GROUND RESISTANCE OF 5 OHMS OR LOWER:
- a.5/8" X 8 FEET LONG. OR
- b.3/4" X 10 FEET LONG.
- 3.GROUND ROD TO BE LOCATED NO NEARER THAN 36" FROM EXISTING POLE GROUND, BE INSTALLED TO A MINIMUM OF 6 INCHES BELOW GRADE. AND THE GROUND CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE GROUND BAR.
- 4. GROUND CONDUCTOR BETWEEN GROUND ROD AND LOAD CENTER / MAIN GROUNDING BUSBAR SHALL BE #6 AWG STRANDED COPPER INSTALLED 6" BELOW GRADE UNTIL TURNING VERTICALLY FOR MOUNTING TO THE WOODEN UTILITY POLE.
- 5.THE COPPER GROUND CONDUCTOR SHALL BE COVERED FROM SLIGHTLY BELOW GRADE TO THE LOAD CENTER WITH 1" PLASTIC U-GUARD VERTICAL RACEWAY.

<u>STANDARD CONDUIT NOTES:</u>

- 1. ALL UNDERGROUND FIBER OPTIC CABLES SHALL BE INSTALLED IN CONDUITS, EITHER PVC SCHEDULE 40 OR SDR-11 HDPE.
- 2. FIBER OPTIC RISER CONDUITS SHALL BE CONSTRUCTED FROM 1-1/2" RIGID GALVANIZED STEEL (RGS), EXTENDING FROM 12" BELOW GRADE TO APPROXIMATELY 10 HIGH, OR JUST BELOW FIBER CABINET, WHERE IT WILL TRANSITION TO 1" NON-METALLIC LIQUIDTIGHT FLEXIBLE CONDUIT FOR PENETRATION INTO THE CABINET.

STANDARD TRENCHING NOTES:

- 1. MINIMUM CONDUIT DEPTH FOR FIBER OPTIC / ELECTRICAL CONDUITS IS 42" BELOW GRADE, EXCLUDING THE SHORTEST PRACTICAL RADIUS WHERE THE CONDUIT TRANSITIONS TO A VERTICAL POLE RISER.
- 2.WHERE CONDUITS ARE PLACED VIA OPEN TRENCH, THERE SHALL BE A WARNING TAPE PLACED 24" ABOVE THE FIBER OPTIC CONDUIT (E.G., CAUTION: BURIED FIBER OPTIC CABLE RFI ()W)
- 3. IN AREAS OF OPEN TRENCH CONSTRUCTION, CONTRACTOR SHALL INSTALL 6" SAND BED BELOW CONDUTTS, AND A 12" SAND BACKFUL ABOVE CONDUTTS, PROR TO USING NATIVE BACKFUL. MAXIMUM 6" LIFTS WITH 95% COMPACTION WHERE NATIVE BACKFUL IS USED TO RESTORE EXCAVATED TRENCH AREAS.

POLE/GENERAL CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL REMOVE / CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND REGULATIONS, INCLUDING THE POLE OWNER / UTILITY, MUNICIPAL, COUNTY, STATE, AND FEDERAL AGENCIES
- 3. NOT LESS THAN 48 HOURS PRIOR TO EXCAVATION, CONTRACTOR SHALL CALL (TEXAS ONE-CALL SYSTEM) AT (800) 344-8377.
- 4. ALL LANDSCAPING / SITE CONDITIONS SHALL BE RESTORED TO ORIGINAL CONDITION, OR RFTTFR.

GENERAL NOTES:

- 1. EXISTING UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS WITH FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY EXACT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY UTILITY LOCATIONS AT LEAST 100 FEET IN ADVANCE OF TRENCHING, PLOWING, OR BORING OPERATIONS, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN ADVANCE OF CONFLICTS. 2. ALL KNOWN BURIED OBSTRUCTIONS ARE SHOWN ONE THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHER BURIED OBSTRUCTIONS ENCOUNTERED ARE THE RESPONSIBILITY OF THE CONTRACTOR TO
- LOCATE, PROTECT, AND REPAIR (IF DAMAGED). 3. THE CONTRACTOR SHALL CONTACT THE LOCAL ONE CALL AGENCY NOT LATER THAN 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE EXACT UTILITY LOCATIONS AT "JULIE CALL BEFORE YOU DIG" (800) 344-8377. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS OF BURIED UTILITIES BEFORE COMMENCING CONSTRUCTION.
- 4 ANY AND ALL SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO ASPHALT OR CONCRETE AND AND ALL STIE IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, ASPHELT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DANIAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, SHALL BE RESTORED BY THE CONTRACTOR TO ORIGINAL OR BETTER CONDITION.
- 5. THE CONTRACTOR SHALL ADHERE TO THE RULING VERSION OF THE NESC (NATIONAL ELECTRIC SAFETY CODE) RULES, OR LOCAL MUNICIPAL, UTILITY, COUNTY, STATE, OR FEDERAL RULES, WHICH MAY ALTER THE CONSTRUCTION SPECIFICATIONS SHOWN.
- 6. INSTALLED MATERIALS SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS / RECOMMENDATIONS. ALL AERIAL CABLE SPANS SHALL BE PROPERLY SAGGED AND MAINTAIN NOT LESS THAN THE MINIMUM ALLOWED DISTANCE FROM UTILITY LINES AS REQUIRED.
- 7. ALL PROPOSED NEW FACILITIES SHALL MAINTAIN NOT LESS THAN 12" SEPARATION FROM ALL PUBLIC / PRIVATE UTILITIES, UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DRAWINGS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES AND RESTORATION OF ANY WATER, WASTE WATER, STORM WATER, ELECTRICAL, NATURAL GAS, OR TRAFFIC CONTROL FACILITIES. ALL RESTORATION WORK SHALL FULLY CONFORM TO THE APPROPRIATE CITY, MUNICIPAL, COUNTY, STATE,
- FEDERAL, AND UTILITY SPECIFICATIONS. 9. CONTRACTOR SHALL TAKE REASONABLE, NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF
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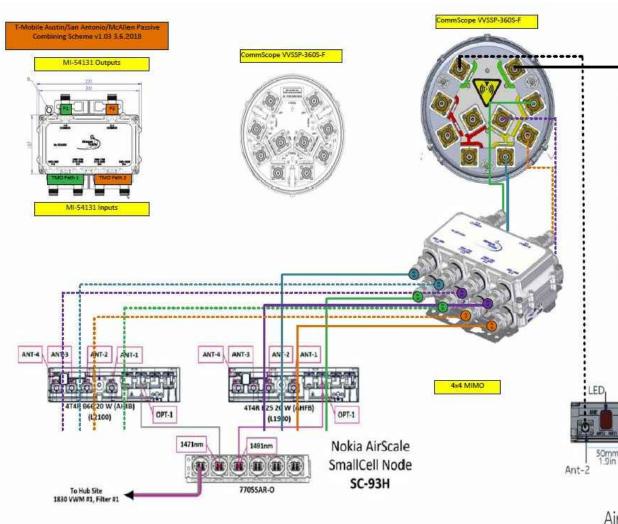
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CONSTRUCTION NOTES:

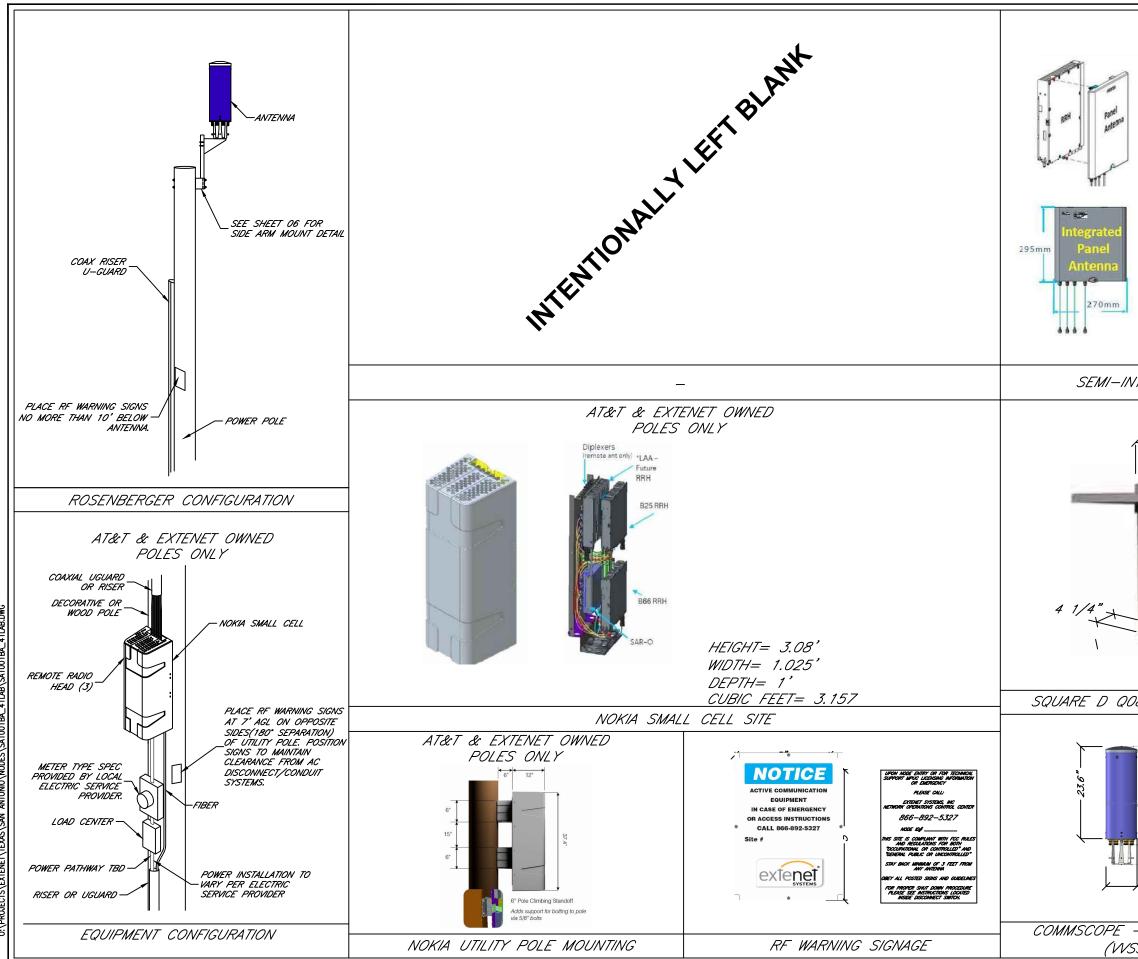
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- 3. ALL BURIED CONDUIT / CABLE SHALL B OTHERWISE SPECIFIED ON THE CONSTRU
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- 5. CABLE 90° SHORT SWEEPS, ROUTES, OK INSIDE OR BOTTOM OF ANTENNA ARMS. ANY SUPPORT ARMS.
- 6. USE CABLE CLAMPS TO SECURE CABLE ON BOTH SIDES OF SUPPORT ARMS TO 7. USE 90° CONNECTORS FOR RF CONNECT
- 8. SOME LOCATIONS MAY INCLUDE INTERNAL SPECIFIC INSTRUCTIONS FOR GPS ANTEN 9. COAXIAL CABLE SHALL MEET LMR-400 S
- 10. AFTER CABLE PLACEMENT, USE FOAM OPENINGS TO PREVENT WATER INTRUSION

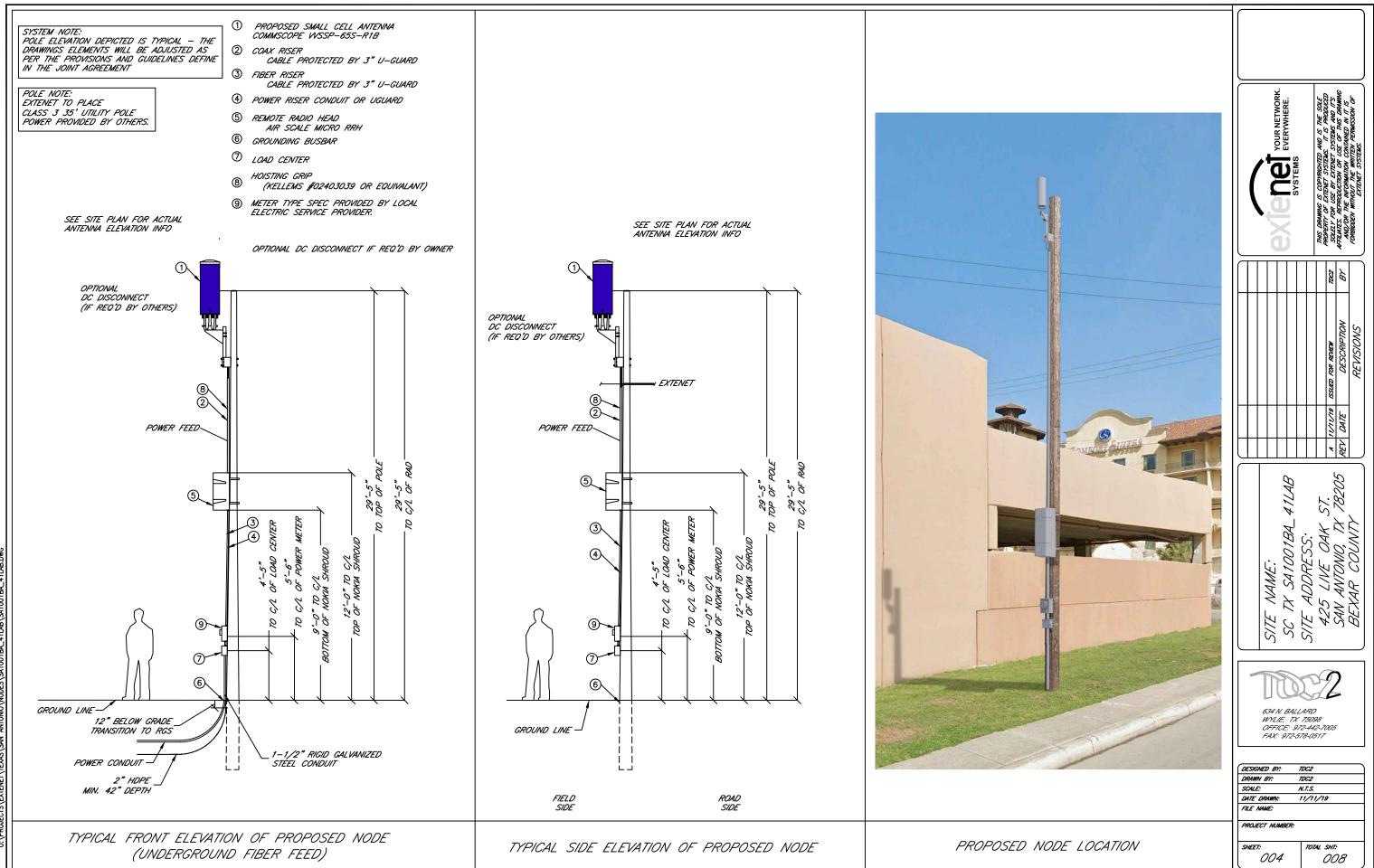


-11, UNLESS SPECIFIED OTHERWISE. EN LOCATED) SHALL REQUIRE PLACEMENT OF A ION OF A 2" HOPE SDR-11 CONDUIT, OVER OR WHERE CONDUIT IS NOT OTHERWISE SPECIFIED. BE PLACED AT 48" MINIMUM COVER, UNLESS ICTON DRAWINGS. TATION CABLES SHALL BE LOCATED NO LATER THAN Y CONTACTING THE RALROAD ROW OWNER. TRUCTION NOTES: ROM THE POLE MORE THAN 1-1/2". EARRANGEMENT OF CLIMBING PEGS. SHALL HAVE EXTENDED LENGTH. ICE OFF POLE FACE (12:00 POSITION). R TRANSITIONS SHALL ONLY BE PLACED ON THE NO CABLING SHALL BE INSTALLED ON THE TOP OF TO SUPPORT ARMS. PLACE 2" IDENTIFICATION TAGS IDENTIFY OWNER. TION TO ANTERVIAS. IL GPS COMPONENTS. CONTRACTOR SHALL FOLLOW WA INSTALLATION ON A PER SITE BASIS. SPECIFICATION (500, TYPICAL OUTER DIAMETER 0.4"). SEALANT TO FILL VOID AROUND CABLES AT CONDUIT N.	POLICIES COMPORTED AND IS THE SOLF SYSTEMS INI
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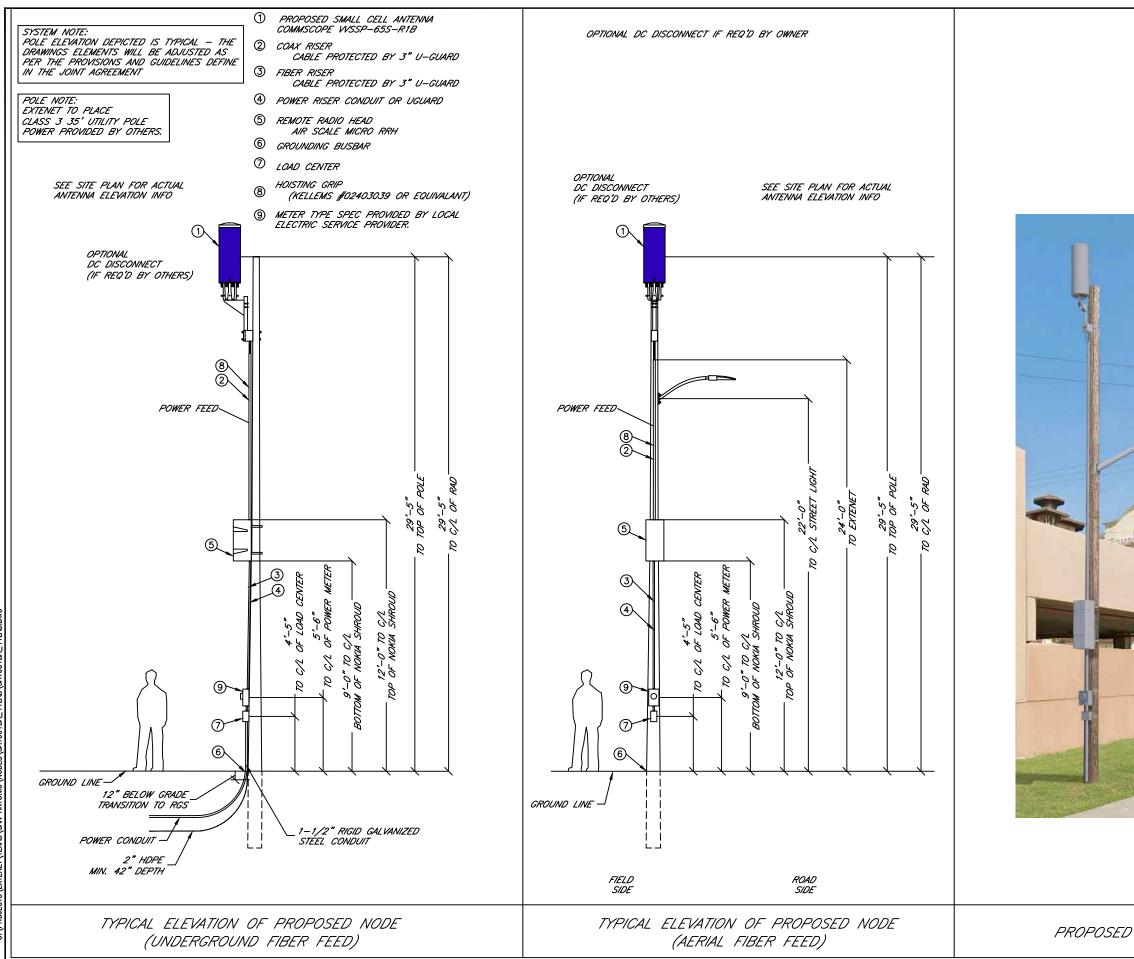


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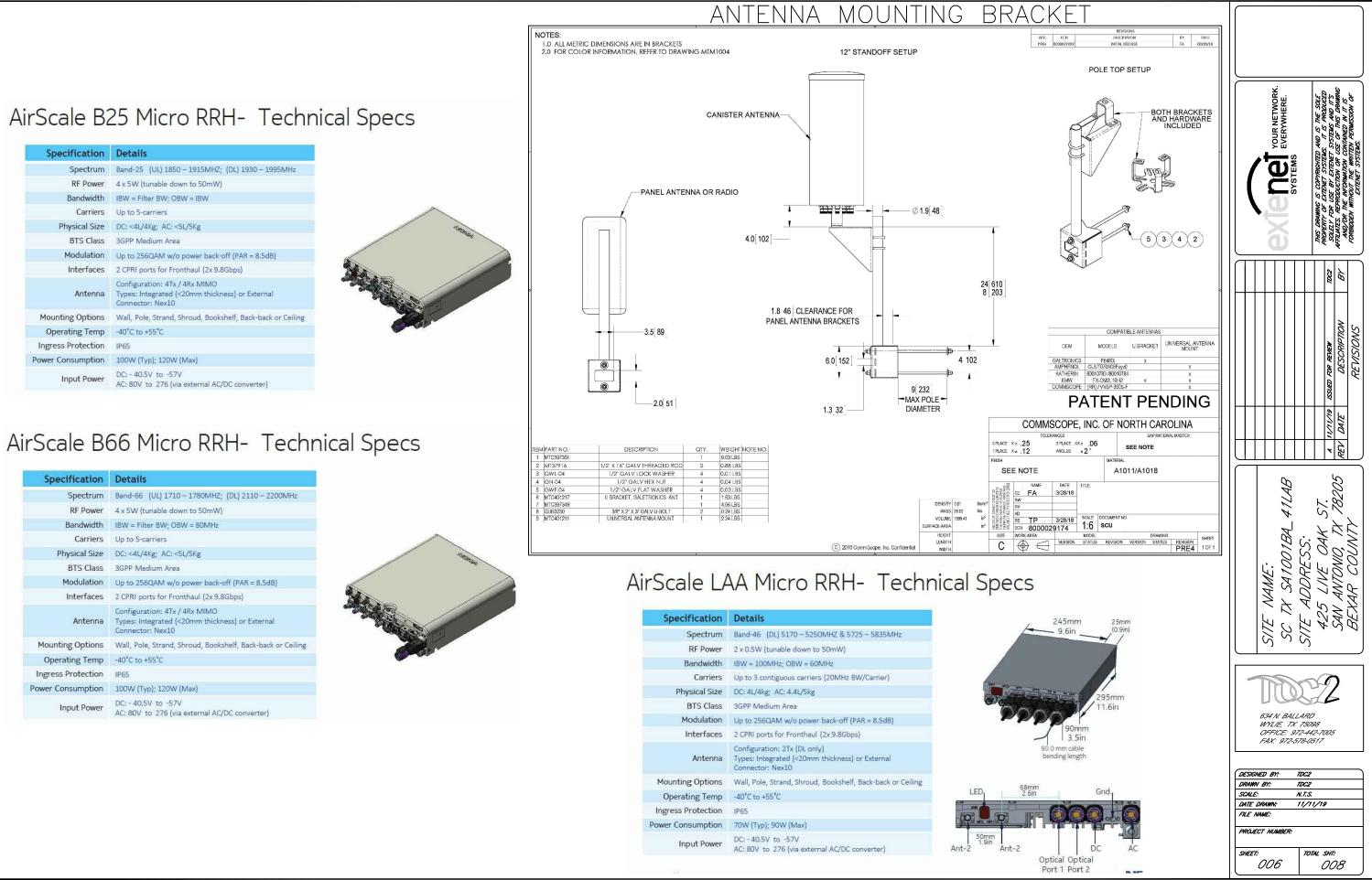
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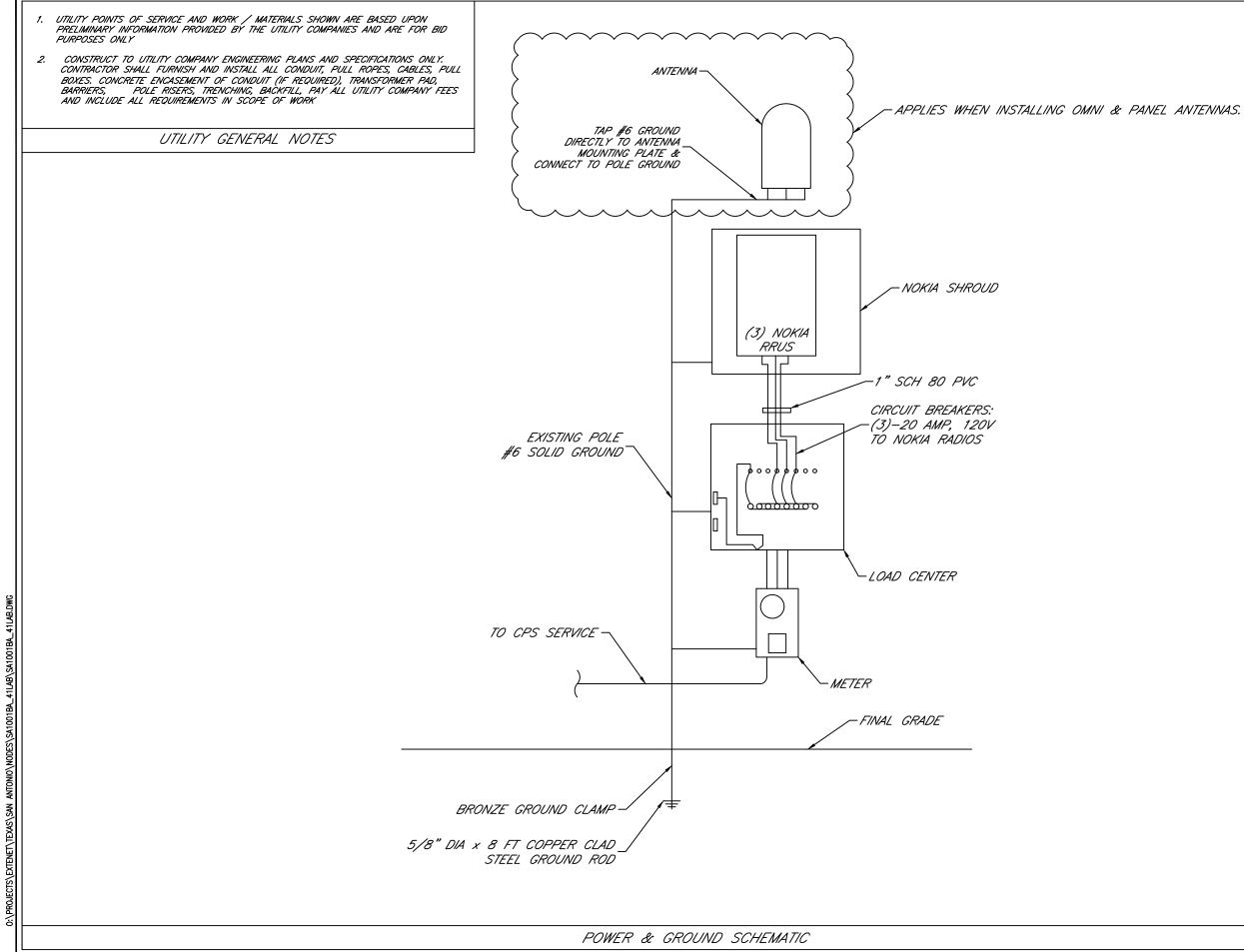


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