

SITE OVERVIEW	
TYPE OF OCCUPANCY:	COMMUNICATIONS TOWER
SITE TYPE:	RAWLAND
TOWER TYPE:	SELF SUPPORT (LATTICE) TOWER
TOWER HEIGHT:	190-FT +/- (TOTAL HEIGHT)
TOWER LATITUDE:	35° 09' 54.28" N
TOWER LONGITUDE:	78° 52' 03.40" W
ZONING JURISDICTION:	CITY OF FAYETTEVILLE
COUNTY:	CUMBERLAND
PLAT BK & PG:	01080065
DEED BK & PG:	61680087
ZONED:	LC
PROJECT AREA:	2,800 SF
TAX PARCEL ID:	0531-94-7821
POWER COMPANY:	SOUTH RIVER ELECTRIC MEMBERSHIP COPR.

PROJECT CONTACT DIRECTORY	
LAND OWNER:	SOUTH RIVER ELECTRIC MEMBERSHIP CORP. CONTACT: BRIAN LINENS 6491 RAMSEY STREET FAYETTEVILLE, NC 28311 919-616-6017
CARRIER:	TBD
TOWER OWNER:	SOUTH RIVER ELECTRIC MEMBERSHIP CORP. 6491 RAMSEY STREET FAYETTEVILLE, NC 28311 919-616-6017
SITE ENGINEER:	DELTA OAKS GROUP CONTACT: BRANDON WALLER 4904 PROFESSIONAL COURT RALEIGH, NC 27609 919-324-3516
JURISDICTION:	CITY OF FAYETTEVILLE 433 HAY STREET FAYETTEVILLE, NC 28301 910-433-1612

CODE COMPLIANCE	
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:	
1. UNIFORM CONSTRUCTION CODE (UCC)	8. 2012 INTERNATIONAL FIRE CODE
2. ANSI/TIA/EIA-222-G	9. 2012 INTERNATIONAL PLUMBING CODE
3. NATIONAL ELECTRIC CODE	10. 2012 INTERNATIONAL MECHANICAL CODE
4. LOCAL BUILDING CODE	11. 2012 INTERNATIONAL FUEL GAS CODE
5. CITY/COUNTY ORDINANCES	12. 2009 INTERNATIONAL ENERGY CONSERVATION CODE
6. 2012 INTERNATIONAL RESIDENTIAL CODE	13. 2011 NATIONAL ELECTRICAL CODE
7. 2012 INTERNATIONAL BUILDING CODE	14. 2009 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE



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GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THEREFORE HANDICAP ACCESS IS NOT REQUIRED. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

SHEET INDEX			
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
T-1	TITLE SHEET	—	—
C-1.1	OVERALL SITE LAYOUT	—	—
C-1.2	TABLE OF ADJOINING PROPERTY OWNERS	—	—
C-2	SITE LAYOUT	—	—
C-3	TOWER PROFILE & COMPOUND LAYOUT	—	—
C-4	CIVIL DETAILS	—	—
C-5	CIVIL DETAILS	—	—
C-6	CIVIL DETAILS	—	—
G-1	GROUNDING DETAILS	—	—
G-2	GROUNDING DETAILS	—	—
G-3	GROUNDING DETAILS	—	—
GN-1	GENERAL NOTES	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

ZONING DRAWINGS

PROPOSED 190-FT (TOTAL HEIGHT) LATTICE TOWER (185-FT TOWER + 5-FT LIGHTNING ROD)



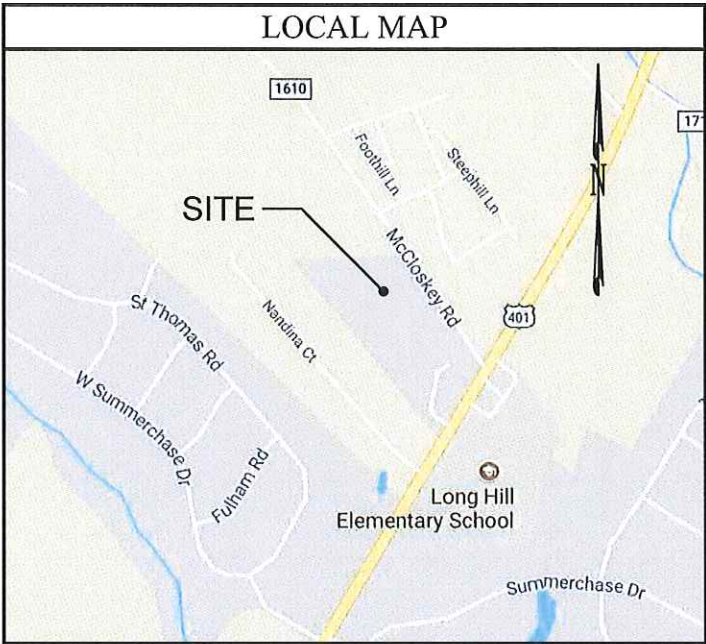
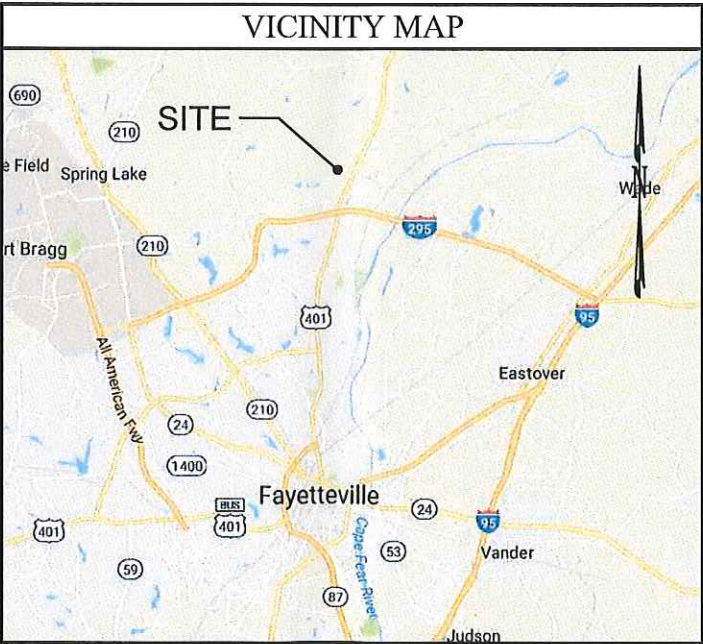
**South River Electric
Membership Corporation**
A Touchstone Energy® Cooperative

SOUTH RIVER ELECTRIC MEMEBERSHIP CORPORATION
6491 RAMSEY STREET
FAYETTEVILLE, NC 28311

SITE NAME
FAYETTEVILLE (FDO)

SITE ID
FDO

SITE ADDRESS
6491 RAMSEY STREET
FAYETTEVILLE, NC 28311



DIRECTIONS

FROM DOWNTOWN FAYETTEVILLE (433 HAY STREET):

HEAD NORTHWEST ON HAY STREET TOWARD PITTMAN STREET FOR 0.6 MILES. TURN RIGHT TO MERGE ONOT US-401 BUS N FOR 1.3 MILES. USE THE LEFT 2 LANES TO TURN LEFT ONTO RAMSEY STREET FOR 6.7 MILES. SITE IS LOCATED ON LEFT BEHIND SREMC BUILDING APPROX. COORDINATES 35° 09' 54.28" N, 78° 52' 03.40" W.

PREPARED FOR:



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Membership Corporation**
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SOUTH RIVER ELECTRIC
MEMBERSHIP CORPORATION
6491 RAMESEY STREET
FAYETTEVILLE, NC 28311

PREPARED BY:



**DELTA OAKS
GROUP**

DELTA OAKS GROUP
4904 PROFESSIONAL COURT
RALEIGH, NC 27609
PHONE: (919) 342-8084

NORTH CAROLINA
PROFESSIONAL
SEAL
044187
ENGINEER
BRANDON J. WALLER

BRANDON J. WALLER NC PE # 044187
DATE: 11/03/17

DRAWN BY:	BJW
CHECKED BY:	WRB
APPVD:	WRB
PROJECT NO:	17-01377

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
11/03/17	FOR ZONING	0	BJW

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SITE NAME:
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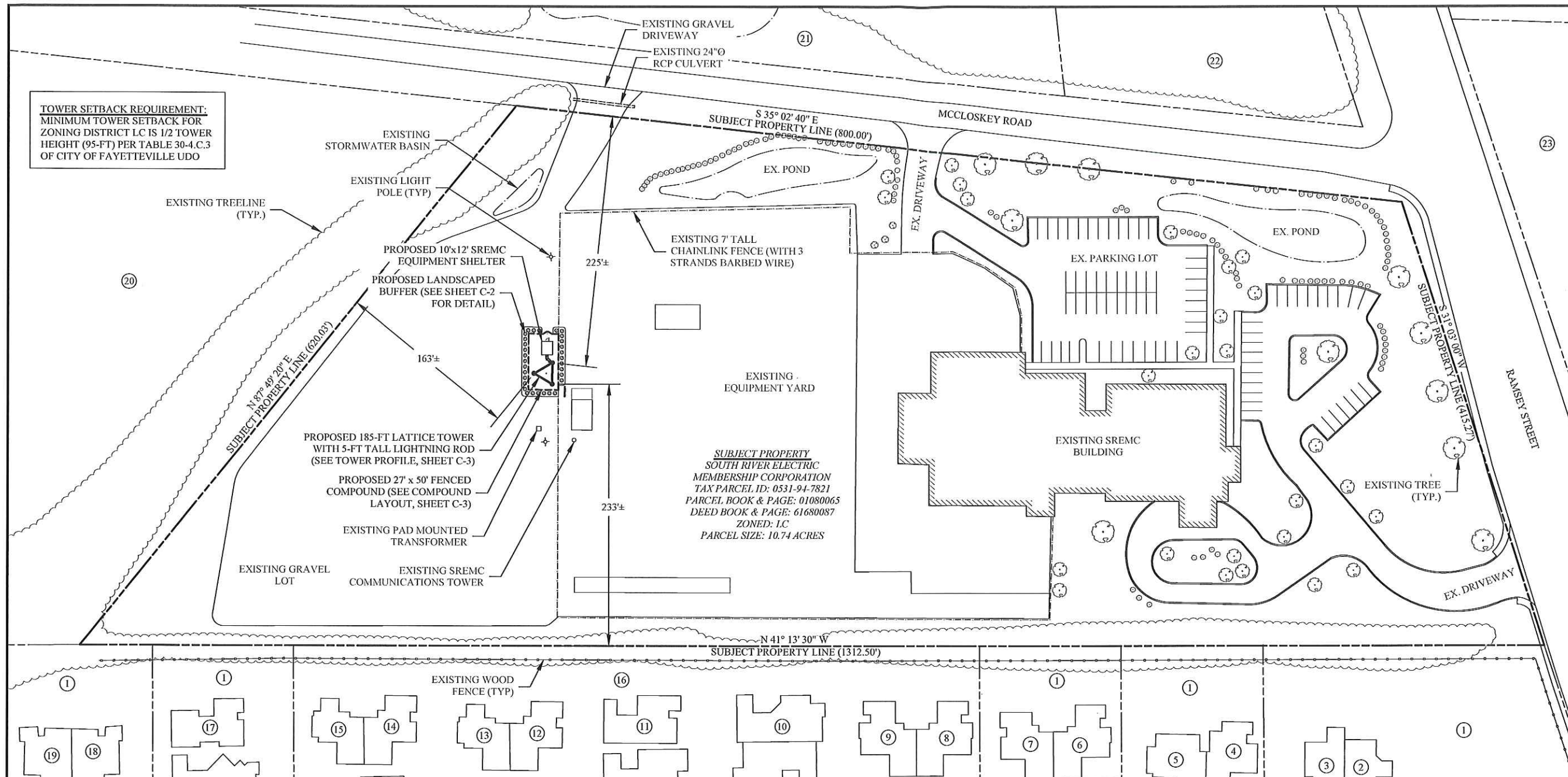
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FAYETTEVILLE, NC 28311

SITE ID:
FDO

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

TOWER SETBACK REQUIREMENT:
MINIMUM TOWER SETBACK FOR
ZONING DISTRICT LC IS 1/2 TOWER
HEIGHT (95-FT) PER TABLE 30-4.C.3
OF CITY OF FAYETTEVILLE UDO



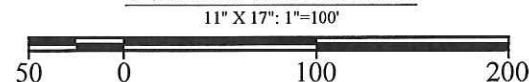
AERIAL IMAGE



SITE PLAN NOTES:

1. SITE PLAN IS BASED ON EXISTING SURVEY PLAT BY MOORMAN, KIZER, & REITZEL, INC. DATED 01/13/03, CUMBERLAND COUNTY GIS, AND AERIAL PHOTOGRAPHS AND IS LIMITED TO THE ACCURACY THEREOF. THIS PLAN SHOULD BE CONSIDERED APPROXIMATE AND DOES NOT REPRESENT A FULL BOUNDARY SURVEY.
2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PROPOSED EQUIPMENT AND TOWER AREA.
3. AUTHORIZATION FOR WORK WITHIN PUBLIC R.O.W. SHALL BE OBTAINED BY THE CONTRACTOR.
4. EROSION CONTROL MEASURES SHALL BE INSTALLED IN CONFORMANCE WITH LOCAL, COUNTY, AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
5. THE PROPOSED PROJECT WILL NOT RESULT IN A SIGNIFICANT AREA OF DISTURBANCE AND WILL NOT SIGNIFICANTLY INCREASE STORMWATER RUNOFF.
6. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
7. THE SITE WILL GENERATE APPROX. 1 TRIP PER MONTH BY TECHNICIANS PERFORMING ROUTINE MAINTENANCE.
8. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION. THERE IS NO HANDICAP ACCESS REQUIRED.
9. THE FACILITY DOES NOT REQUIRE WATER OR SANITARY SEWER SERVICE.
10. THE PROPOSED PROJECT AREA IS NOT LOCATED WITHIN WETLANDS.
11. THE PROPOSED PROJECT AREA IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE.

OVERALL SITE LAYOUT



LEGEND

---	EXISTING CONTOUR (MINOR)
---	EXISTING CONTOUR (MAJOR)
---	PROPOSED CONTOUR (MINOR)
---	PROPOSED CONTOUR (MAJOR)
---	PROPERTY LINE/ROW
---	EXISTING EASEMENT
---	PROPOSED EASEMENT
---	PROPOSED LEASE AREA
---	WATERBODY
-X-	EXISTING FENCE
-X-	PROPOSED FENCE
---	ROADWAY CENTERLINE
---	EXISTING EDGE OF PAVEMENT
---	PROPOSED EDGE OF PAVEMENT
-OH-	OVERHEAD UTILITY
⑦	ADJOINING PROPERTY KEYNOTE (SEE TABLE ON SHEET C-1.2)

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Membership Corporation**

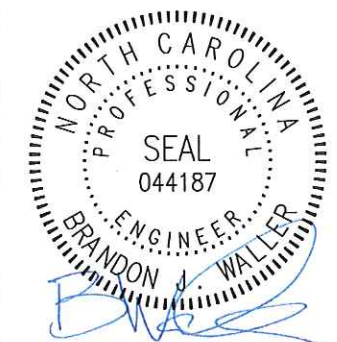
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FAYETTEVILLE, NC 28311

PREPARED BY:



DELTA OAKS GROUP
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RALEIGH, NC 27609
PHONE: (919) 342-8084



BRANDON J. WALLER NC PE # 044187
DATE: 11/03/17

DRAWN BY:	BJW
CHECKED BY:	WRB
APP'VD:	WRB
PROJECT NO:	17-01377

SUBMITTALS

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SITE NAME:

FAYETTEVILLE (FDO)

SITE ADDRESS:

6491 RAMESEY STREET
FAYETTEVILLE, NC 28311

SITE ID:

FDO

SHEET TITLE

OVERALL SITE LAYOUT

SHEET NUMBER

C-1.1

ADJOINING PROPERTY OWNERS:

#	OWNER NAME	PLAT BOOK & PAGE	DEED BOOK & PAGE	ZONED
①	COTTAGES AT NORTH RAMSEY HOMEOWNERS ASSOC	01230063	83030063	SF-10
②	THOMPSON, ARLETTA ELDRIDGE	01220095	79260224	SF-10
③	HARRINGTON, LEOMI FAYEDINE E	01230063	80850799	SF-10
④	SMITH, MATHEW L	01240195	96390667	SF-10
⑤	PRYOR, THEOPHILUS J	01240195	83170894	SF-10
⑥	GAWINSKI, MICHAEL C & SPOUSE KELSEY	01350030	101250685	SF-10
⑦	STROBBE, VANESSA KARR & ANA MARIA HARTWIG	01350030	97800406	SF-10
⑧	MCKEE HOMES LLC	01380147	93150620	SF-10
⑨	MCKEE HOMES LLC	01380147	93150620	SF-10
⑩	MCKEE HOMES LLC	01380147	93150620	SF-10
⑪	KEIBLER, JAMES & WIFE TAMARA	01360012	97120329	SF-10
⑫	MICHELE N FARRELL TRUST	01360045	98890537	SF-10
⑬	THORNTON, RICHARD JR & WIFE CYNTHIA	01360045	97680273	SF-10
⑭	MOMENT, JEFFREY	01360012	99500210	SF-10
⑮	MCKEE HOMES LLC	01360012	93150620	SF-10
⑯	MCKEE HOMES LLC	01390039	93150620	SF-10
⑰	M&JM HOLDINGS LLC	01280143	95810251	SF-10
⑱	LINLEY, JOHN C JR & WIFE CAROLYN F	01240021	81170784	SF-10
⑲	HAIGLER, LORI A	01240021	82000760	SF-10
⑳	CLARK, WILLIAM E	01040004	97280327	PND
㉑	FAYETTEVILLE LONGHILL POINTE LLC	01230153	79100407	MR-5
㉒	FAYETTEVILLE LONGHILL POINTE OUTPARCEL LLC	01230153	82860346	R-10
㉓	CUMBERLAND COUNTY BOARD OF EDUCATION	-	89100375	SF-10

TABLE NOTES:

1. PROPERTY OWNER AND PARCEL INFORMATION AS OBTAINED FROM CUMBERLAND COUNTY GIS.

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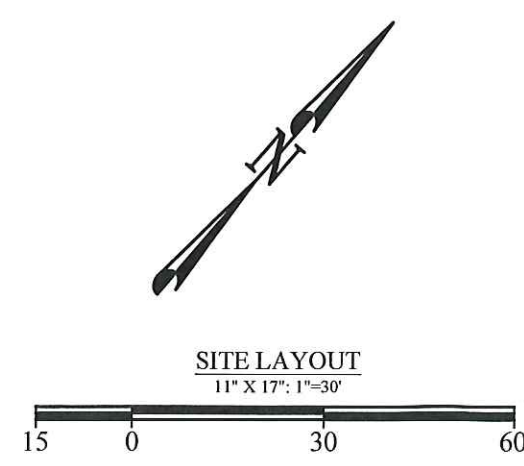
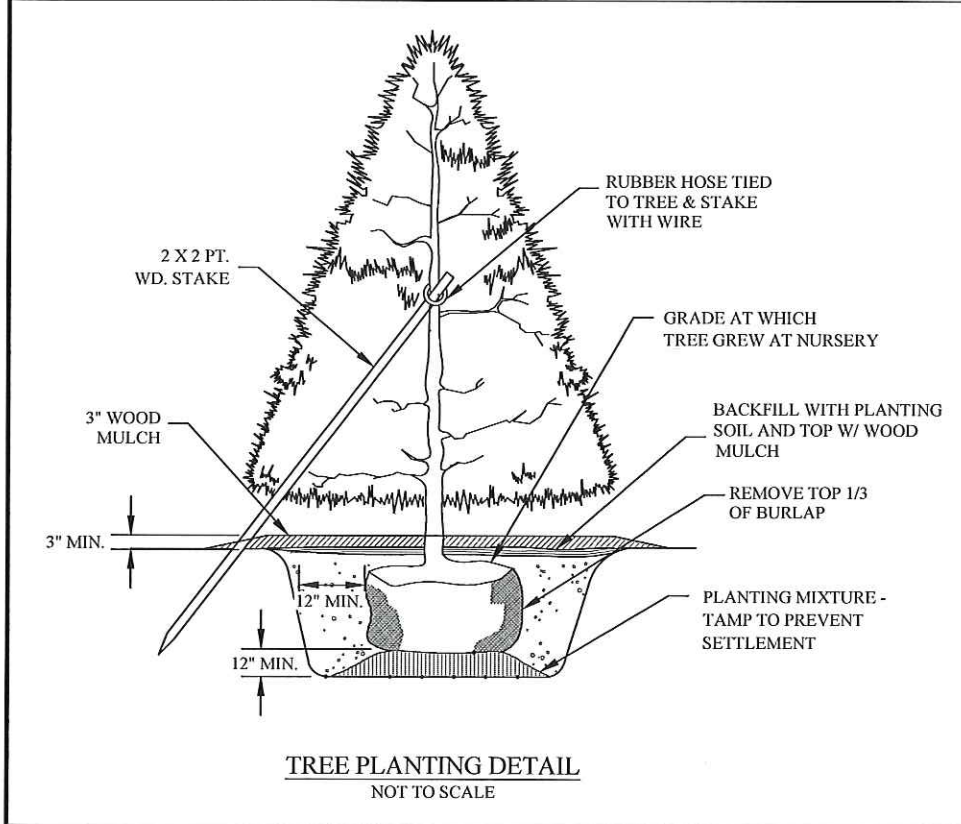
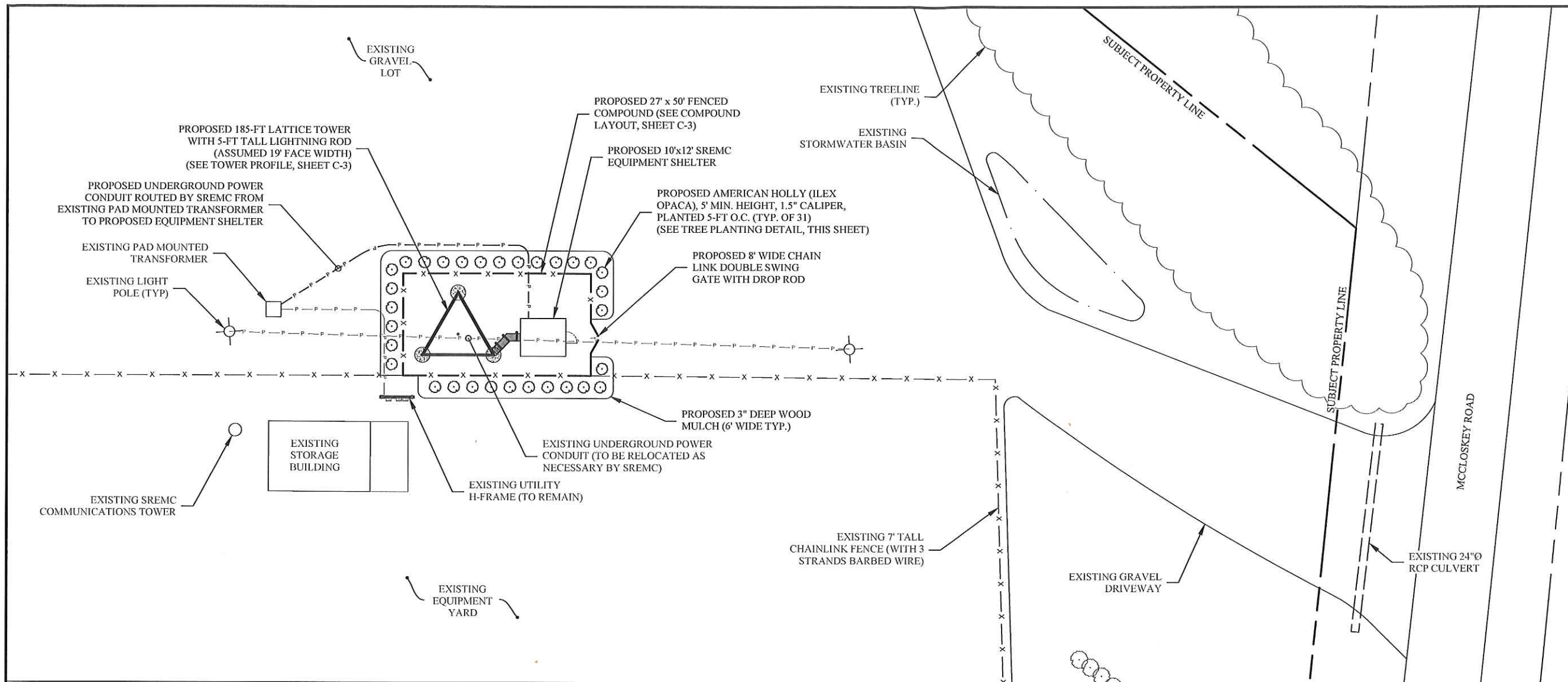
SITE NAME:
FAYETTEVILLE (FDO)

SITE ADDRESS:
6491 RAMSEY STREET
FAYETTEVILLE, NC 28311

SITE ID:
FDO

SHEET TITLE
TABLE OF ADJOINING PROPERTY OWNERS

SHEET NUMBER
C-1.2



LEGEND

---	EXISTING CONTOUR (MINOR)
---	EXISTING CONTOUR (MAJOR)
---	PROPOSED CONTOUR (MINOR)
---	PROPOSED CONTOUR (MAJOR)
---	PROPERTY LINE/ROW
---	EXISTING EASEMENT
---	WATERBODY
-x-x-	EXISTING FENCE
-x-	PROPOSED FENCE
---	ROADWAY CENTERLINE
---	EXISTING EDGE OF PAVEMENT
---	PROPOSED EDGE OF PAVEMENT
OH	OVERHEAD UTILITY

SITE DATA TABLE

PROJECT AREA:	0.06 ACRES (2,800 SF)
PARCEL AREA:	10.74 ACRES
ZONING:	LIMITED COMMERCIAL DISTRICT (LC)
PROPOSED USE:	185-FT SELF SUPPORT (LATTICE) TOWER (WITH 5-FT LIGHTNING ROD)
BUILDING FOOTPRINT:	120 SF
PARKING REQUIRED:	N/A

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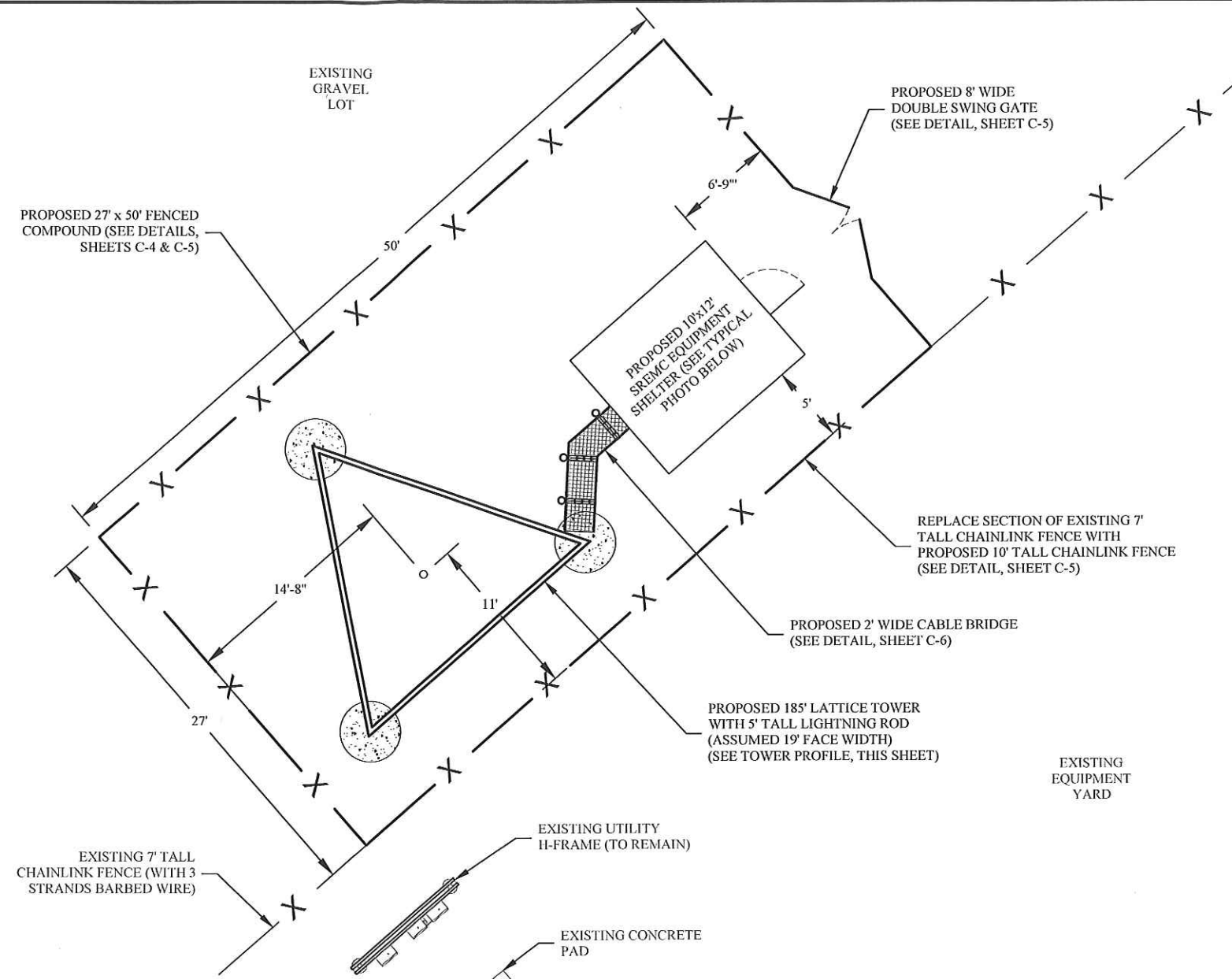
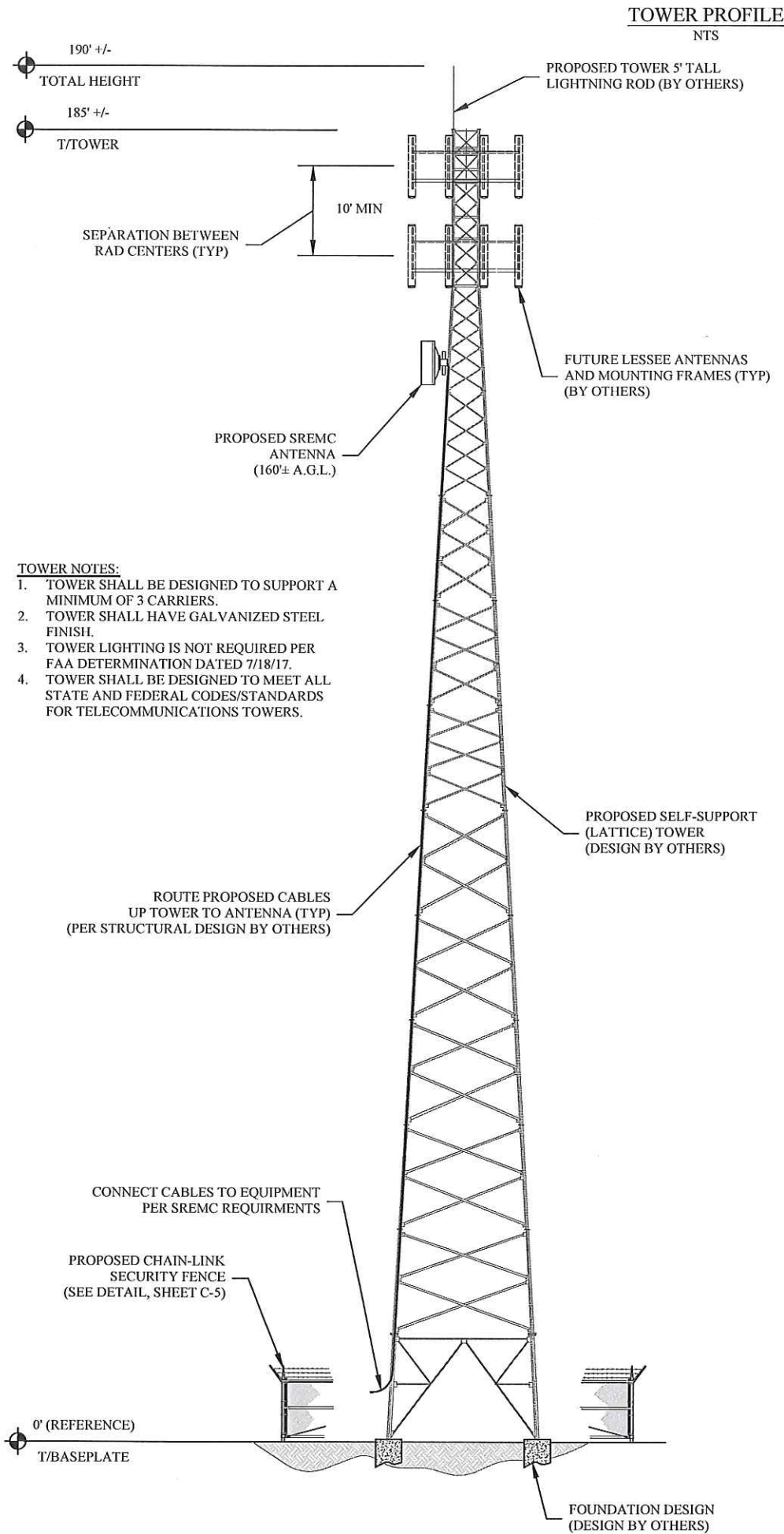
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SHEET TITLE
SITE LAYOUT

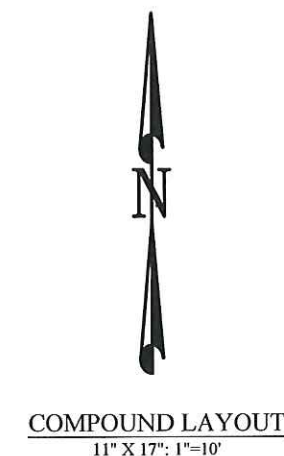
SHEET NUMBER
C-2



TYPICAL SREMC EQUIPMENT SHELTER



NOTE:
PROPOSED LANDSCAPING AND EXISTING TREES NOT SHOWN FOR CLARITY. SEE SHEET C-2 FOR PROPOSED LANDSCAPING.



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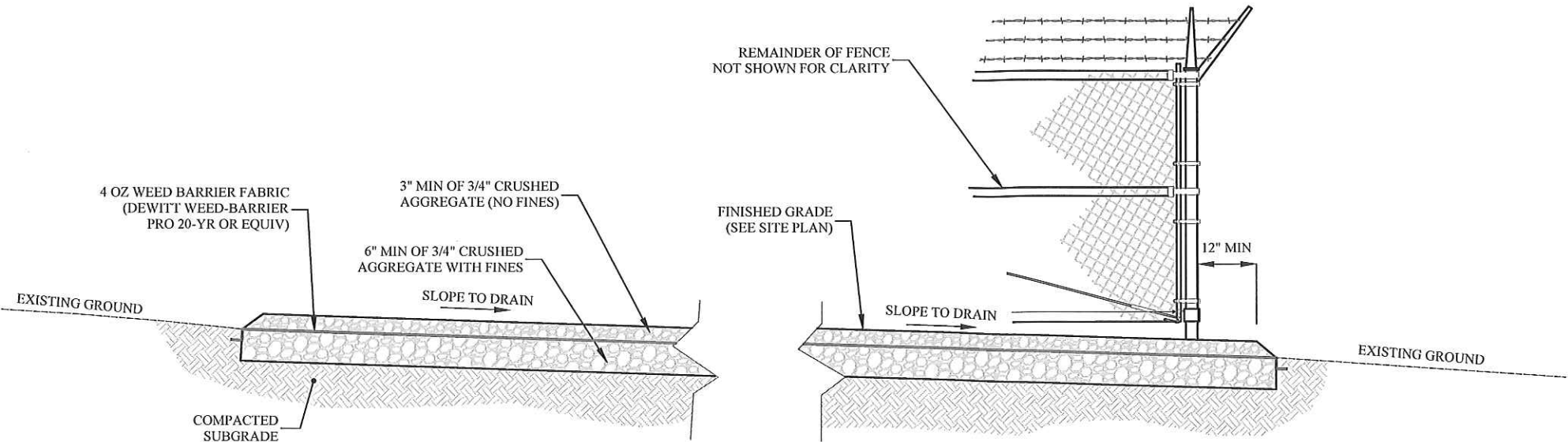
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FAYETTEVILLE, NC 28311

SITE ID:
FDO

SHEET TITLE
TOWER PROFILE AND
COMPOUND LAYOUT

SHEET NUMBER
C-3

TOWER COMPOUND SECTION



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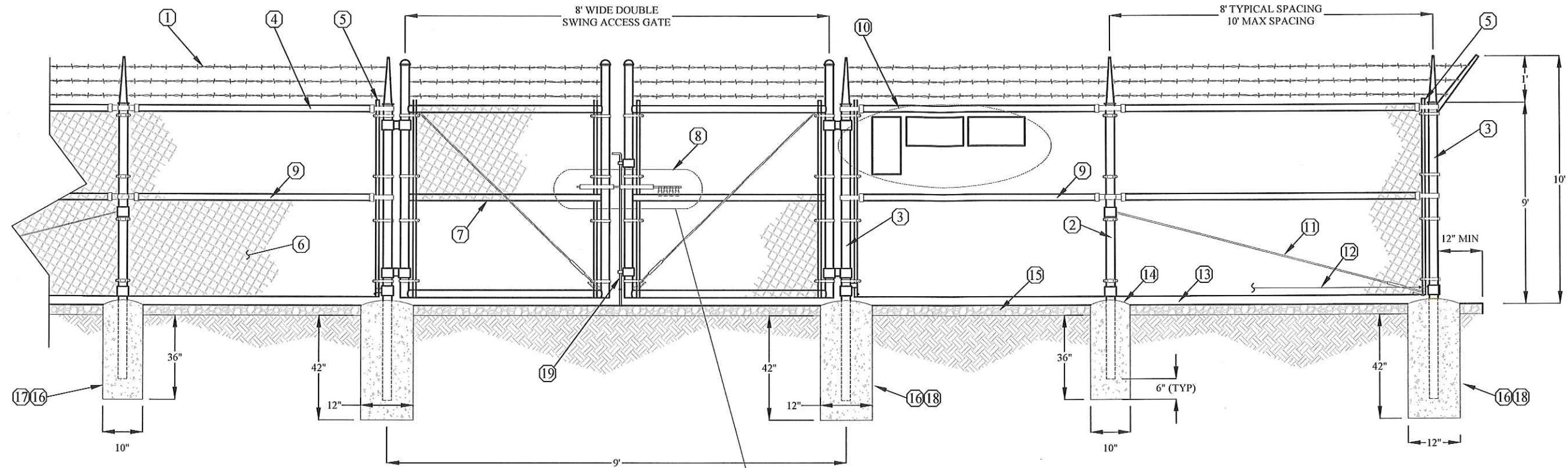
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SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
C-4

COMPOUND FENCE



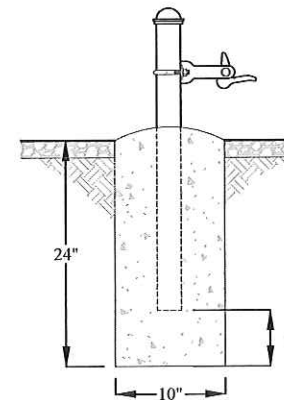
KEYNOTES:

- 3 STRANDS OF DOUBLE 12 1/2 GAUGE TWISTED STRAND WIRE, WITH 4 POINT 14 GAUGE BARBS SPACED 5\" O.C.
- 2-1/2\" NOMINAL GALVANIZED STEEL, SCHEDULE 40 INTERMEDIARY LINE POSTS (PER ASTM-F1083). LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 10' O.C.
- 3\" O.D. GALVANIZED STEEL SCHEDULE 40 CORNER AND GATE POSTS (PER ASTM-F1083). IF GATE LEAF WIDTH GREATER THAN OR EQUAL TO 10-FT OR IF FENCE FABRIC EXTENDED OVER 6-FT AND GATE LEAF WIDTH OVER 6-FT, GATE POST SHALL BE 4\" O.D. GALVANIZED STEEL SCHEDULE 40 (PER ASTM-F1083).
- 1-5/8\" O.D. SCHEDULE 40 ROUND TOP/BRAVE RAIL (PER ASTM-F1083)
- STRETCHER BAR TO EXTEND FULL HEIGHT OF FENCE FABRIC; NOT LESS THAN 3/8\" X 3/4\" CROSS SECTION; PLACE ON ALL GATES AND POSTS
- 9 GAUGE 2\" x 2\" FENCE FABRIC (TO CONFORM TO ASTM-A392)
- GATE FRAME BRACE
- STYMIE LOCK OR OTHER APPROVED MULTI-TENANT LOCKING DEVICE
- 1-5/8\" DIAMETER POST BRACE (AS REQUIRED)
- GATE SIGNS (PER SREMC DIRECTION)
- 3/8\" DIAGONAL BRACE ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD
- 9 GAUGE ALUMINUM TIE WIRE. PROVIDE HOG RING FABRIC TIES SPACED 12\" O.C. FOR POSTS AND GATES AND 24\" O.C. FOR RAILS AND WIRE.
- MAINTAIN A 1\" MAXIMUM CLEARANCE FROM FINISHED GRADE
- PROVIDE CROWNED/PITCHED FINISH FOR FENCE POST PIER FOUNDATIONS
- COMPOUND SECTION AND MATERIALS (SEE DETAIL, SHEET C-5)
CONCRETE PIER FOUNDATION; TO ACHIEVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DEPTH TO BE AS SPECIFIED HEREIN, AS SPECIFIED BY MANUFACTURER, OR A MINIMUM OF 6\" BELOW FROST LINE; WHICHEVER IS GREATER
- LINE POST CONCRETE PIER FOUNDATION
- CORNER/GATE POST CONCRETE PIER FOUNDATION
- COMMERCIAL GRADE DROP ROD AND CENTERSTOP (HOOVER FENCE OR EQUIV)

NOTES:

- FENCE DESIGN AND INSTALLATION NOTES ARE INDUSTRY STANDARDS AND/OR MINIMUM REQUIREMENTS AND ARE FOR GENERAL GUIDANCE ONLY. REFER TO MANUFACTURER'S RECOMMENDATIONS OF THE SPECIFIED PRODUCT AND APPLICABLE GOVERNING CODES FOR FULL INSTALLATION DETAILS. IN THE EVENT OF DISCREPANCIES, MANUFACTURER'S RECOMMENDATIONS OR APPLICABLE CODE SHALL GOVERN, WHICHEVER IS MORE STRINGENT.
- ALL FENCING TO BE INSTALLED PER ASTM F-567. ALL SWING GATES TO BE INSTALLED PER ASTM F-900.
- BARBED WIRE PERMIT REQUIRED SHALL BE COMPLETED IF LOCAL ORDINANCE REQUIRES.
- POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE GALVANIZED (HOT DIP, ASTM A120 GRADE \"A\" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDINGS SHALL BE COATED WITH (3) COATS OF GOLD GALV. (OR EQUAL). ALL OPEN POSTS SHALL HAVE END-CAPS.
- ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC USING GALVANIZED HOG-RING WIRE.
- ALL SIGNS AND SIGN PLACEMENT SHALL ADHERE TO THE REQUIREMENTS OF OSHA 1910.145 AND 1910.200 AND ALL APPLICABLE FCC CODES
- DROP ROD AND CENTERSTOP REQUIRED FOR GATE. GENERAL CONTRACTOR RESPONSIBLE FOR GATE LOCK.

GATE KEEPER



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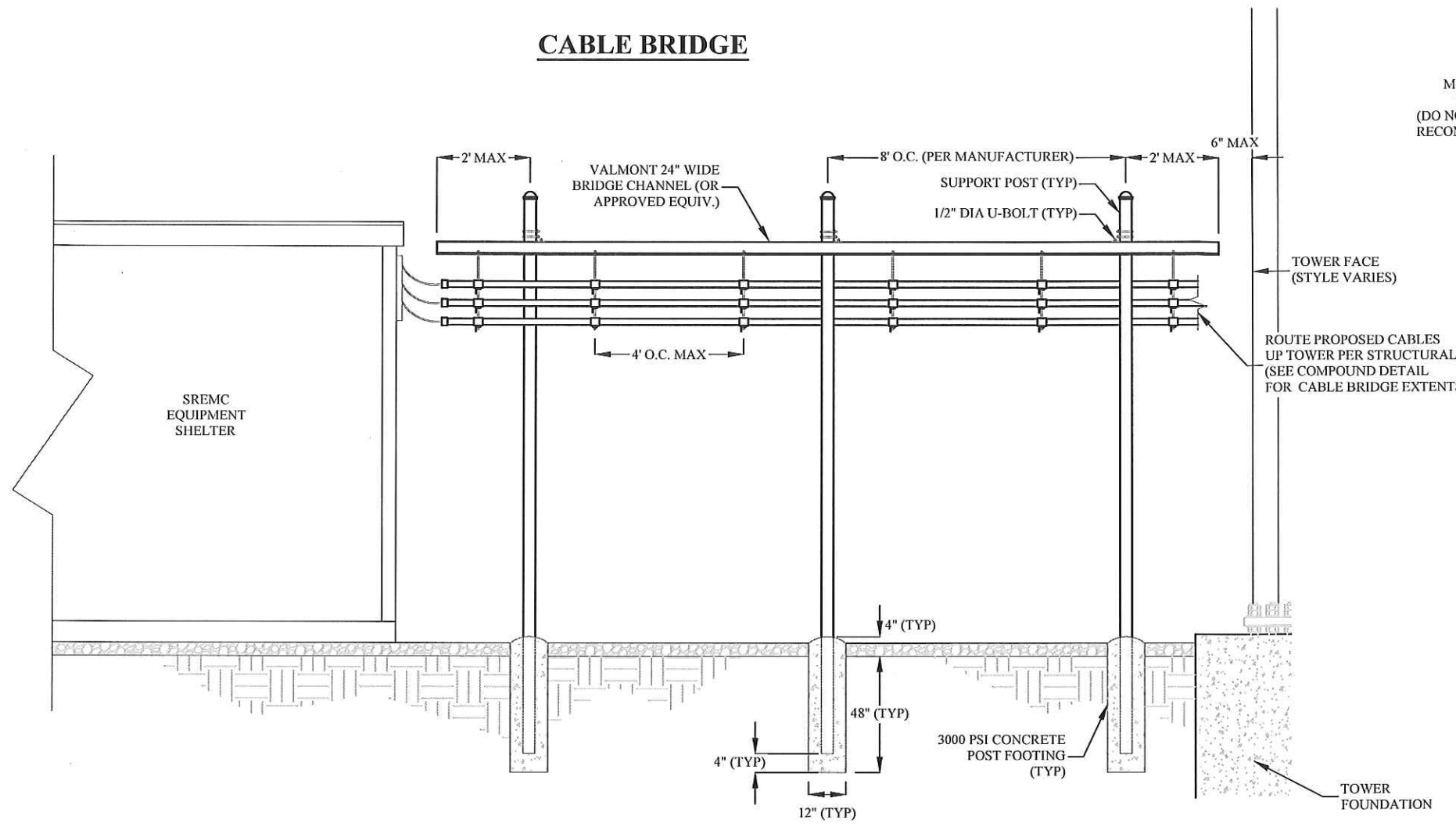
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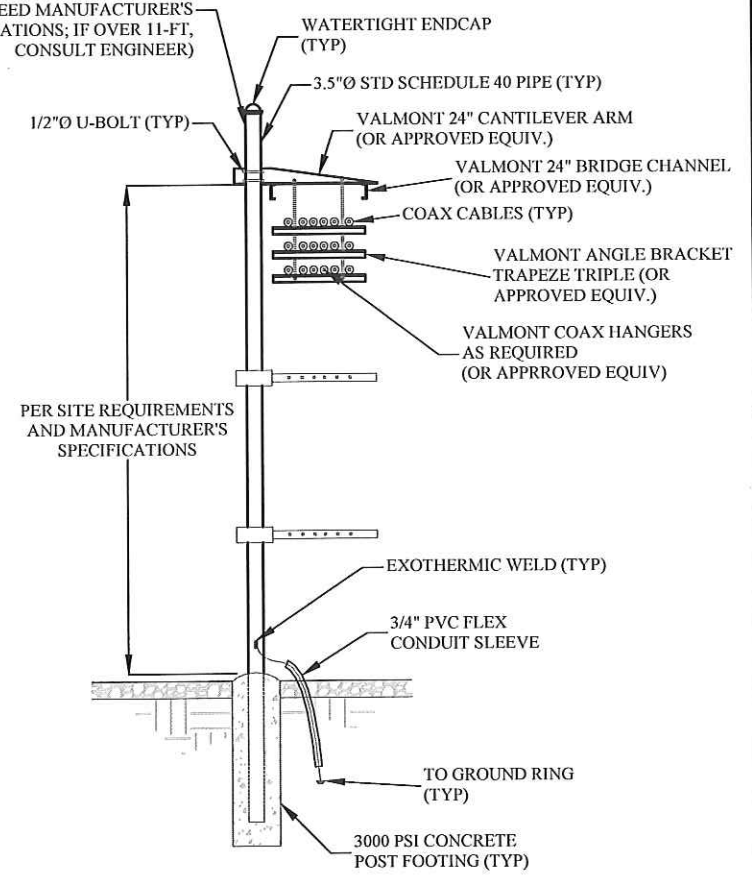
SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
C-5

CABLE BRIDGE

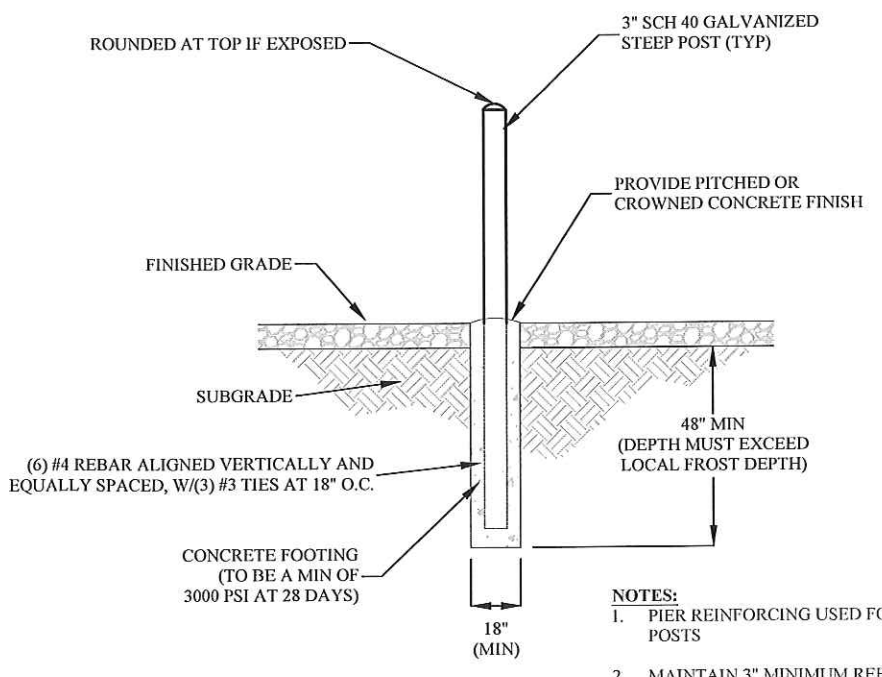


MODIFY HEIGHT AS NECESSARY
TO MEET SITE REQUIREMENTS
(DO NOT EXCEED MANUFACTURER'S
RECOMMENDATIONS; IF OVER 11-FT,
CONSULT ENGINEER)



THIS SPACE INTENTIONALLY LEFT BLANK

PIER (ICE BRIDGE, UTILITY RACK)



- NOTES:
- PIER REINFORCING USED FOR UTILITY RACKS AND ICE BRIDGE POSTS
 - MAINTAIN 3\"/>

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A Touchstone Energy Cooperative

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PREPARED BY:

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PHONE: (919) 342-8084

NORTH CAROLINA PROFESSIONAL SEAL
044187
ENGINEER
BRANDON J. WALLER

BRANDON J. WALLER NC PE # 044187
DATE: 11/03/17

DRAWN BY:	BJW
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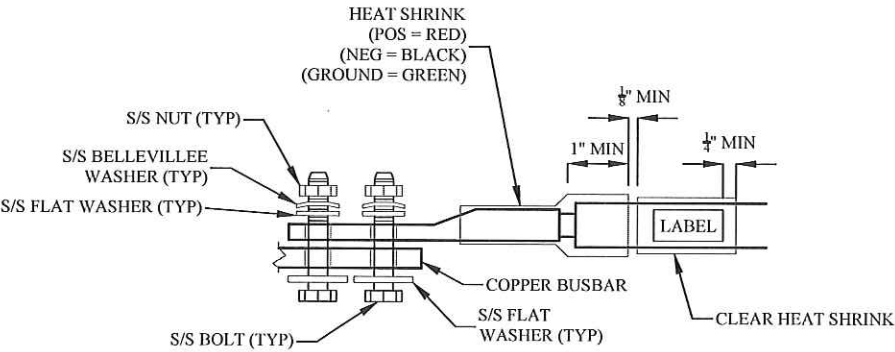
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CIVIL DETAILS

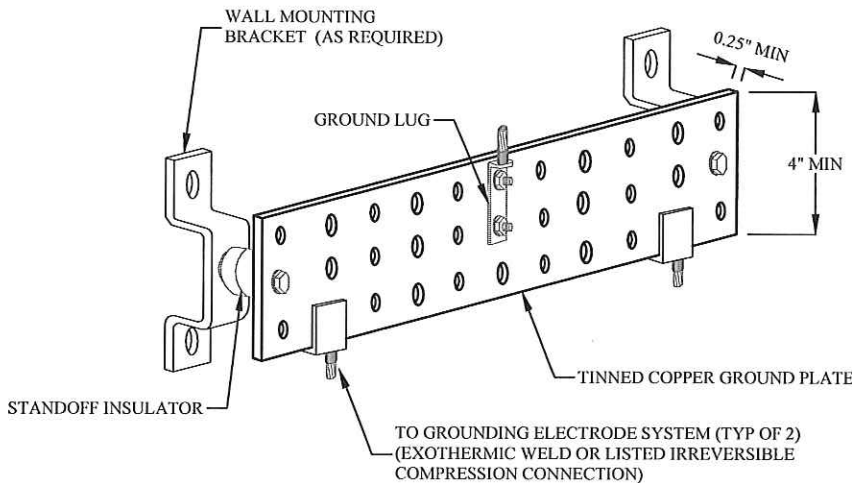
SHEET NUMBER
C-6

GROUND LUG DETAIL



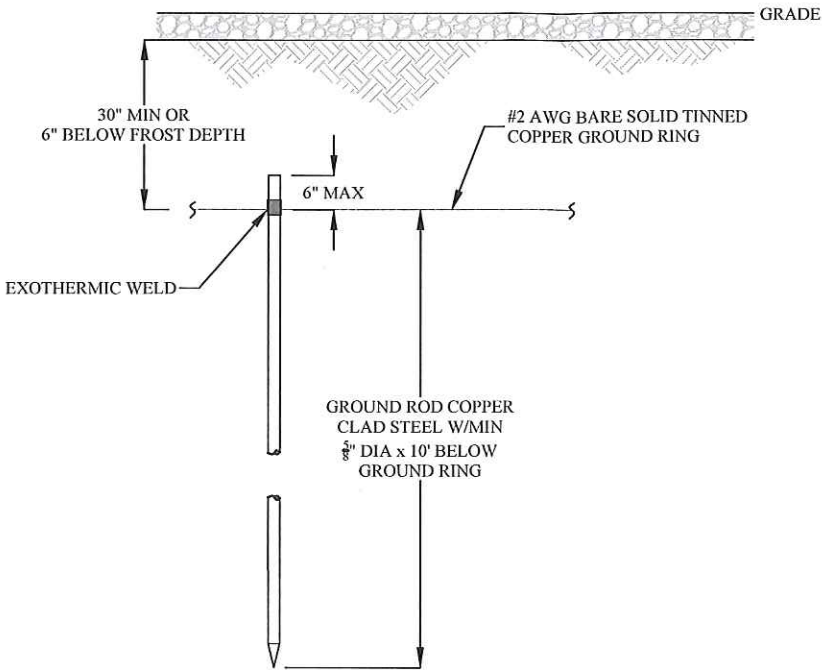
NOTES:
1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT

EXTERIOR GROUND BUSBAR



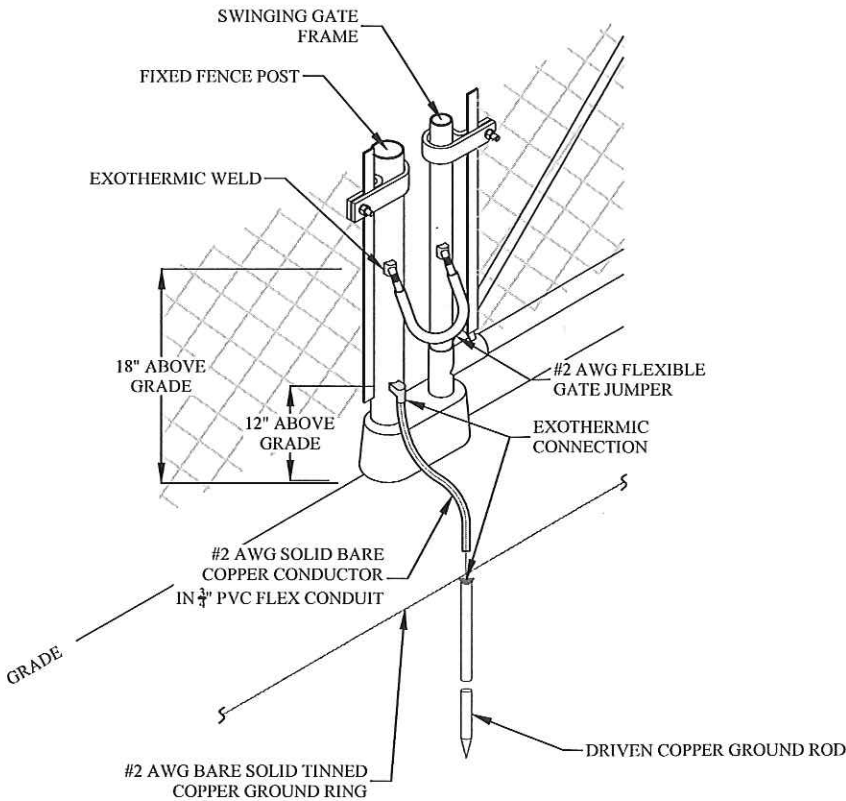
NOTES:
ALL BUSBARS
1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT
2. GROUNDING CONDUCTORS SHALL NOT HAVE A RADIUS LESS THAN 8" OR AN ANGLE OF BEND LESS THAN 90 DEGREES.
3. WHEN MOUNTED ON WALLS OR OTHER SOLID SURFACES, GROUND BUSBAR(S) SHALL HAVE A MINIMUM 2" SEPARATION FROM THE SURFACE TO WHICH IT IS MOUNTED TO ALLOW ACCESS TO THE REAR OF THE BAR.
4. SHOULD BE CONNECTED DIRECTLY TO THE GROUNDING ELECTRODE SYSTEM VIA EXOTHERMIC WELD OR LISTED IRREVERSIBLE COMPRESSION CONNECTION. ALL BONDING CONNECTIONS SHALL BE MADE VIA EXOTHERMIC WELDING OR LISTED IRREVERSIBLE COMPRESSION OR MECHANICAL CONNECTORS. MECHANICAL AND COMPRESSION CONNECTORS SHOULD ONLY BE USED ABOVE GROUND.
EXTERNAL SHELTER EQUIPMENT BUSBAR
5. SHALL BE CONNECTED DIRECTLY TO THE GROUNDING ELECTRODE SYSTEM VIA NO. 2 AWG OR LARGER BARE, SOLID, TINNED COPPER CONDUCTOR.
TOWER BUSBAR
6. SHALL BE DIRECTLY BONDED TO THE TOWER.
7. SHALL BE INSTALLED AT THE TOP AND BOTTOM OF THE TOWER; WHEN TOWER IS GREATER THAN 200-FT IN HEIGHT, BUSBARS SHALL BE INSTALLED EVERY 50-FT AND BONDED TO THE TOWER AND TRANSMISSION LINE CABLE SHIELDS
8. SHALL BE CONNECTED DIRECTLY TO THE GROUNDING ELECTRODE SYSTEM VIA #2 AWG OR LARGER BARE, SOLID, TINNED COPPER CONDUCTOR.

GROUND ROD DETAIL

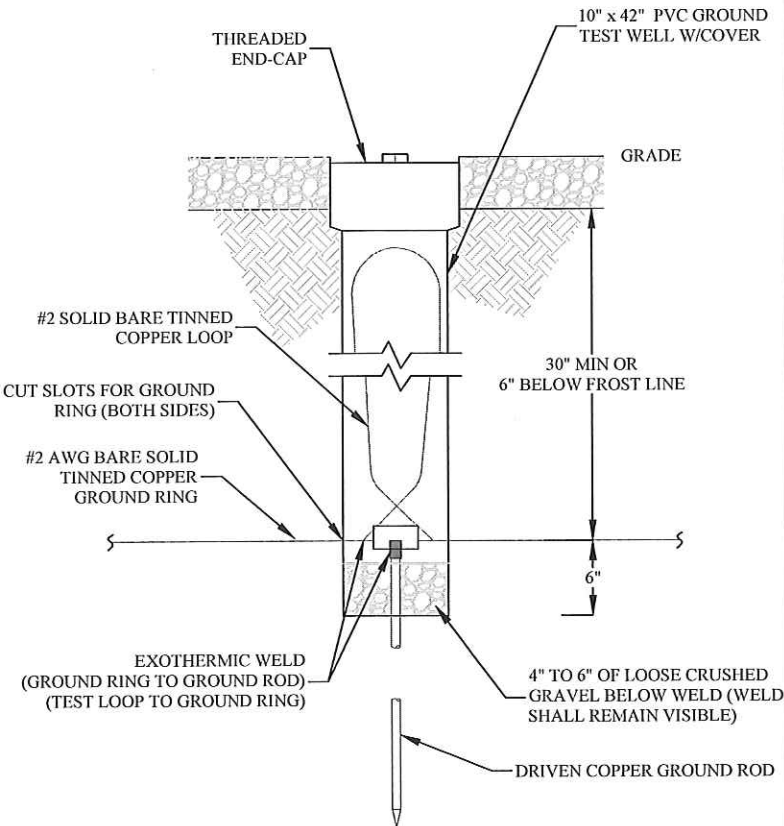


NOTES:
1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT
2. GROUND RODS SHALL BE LATERALLY SPACED NO CLOSER THAN A DISTANCE EQUAL TO THEIR LENGTH, BUT NO GREATER THAN TWICE THEIR LENGTH
3. GROUND RODS SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 30 DEGREES FROM VERTICAL
4. ALL BONDING CONNECTIONS SHALL BE MADE VIA EXOTHERMIC WELDING

GATE GROUNDING DETAIL

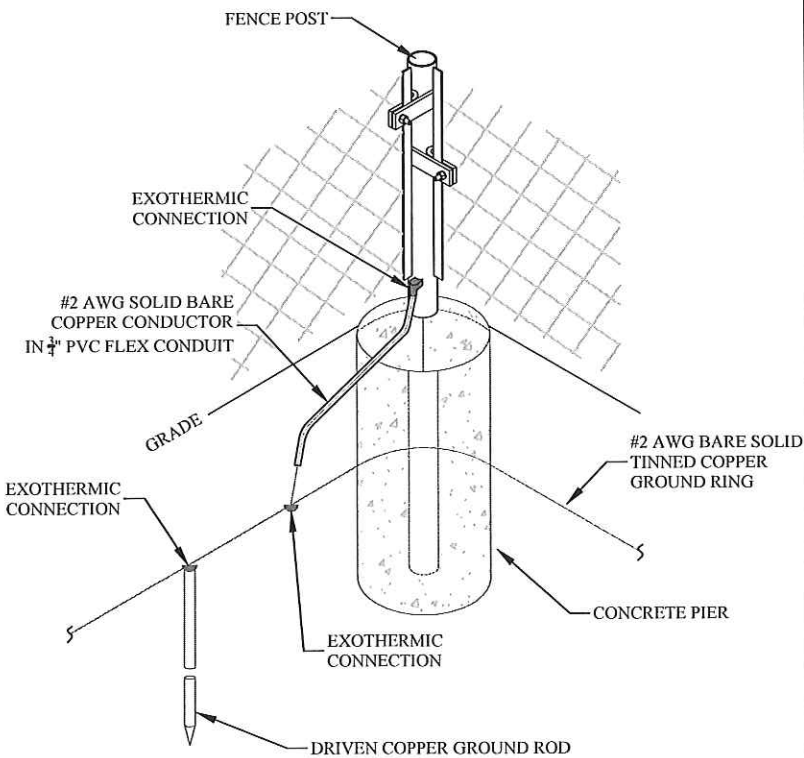


GROUND ROD TEST WELL DETAIL



NOTES:
1. ALL GROUNDING SYSTEM COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT

FENCE POST GROUNDING DETAIL



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BRANDON J. WALLER NC PE # 044187
DATE: 11/03/17

DRAWN BY: BJW
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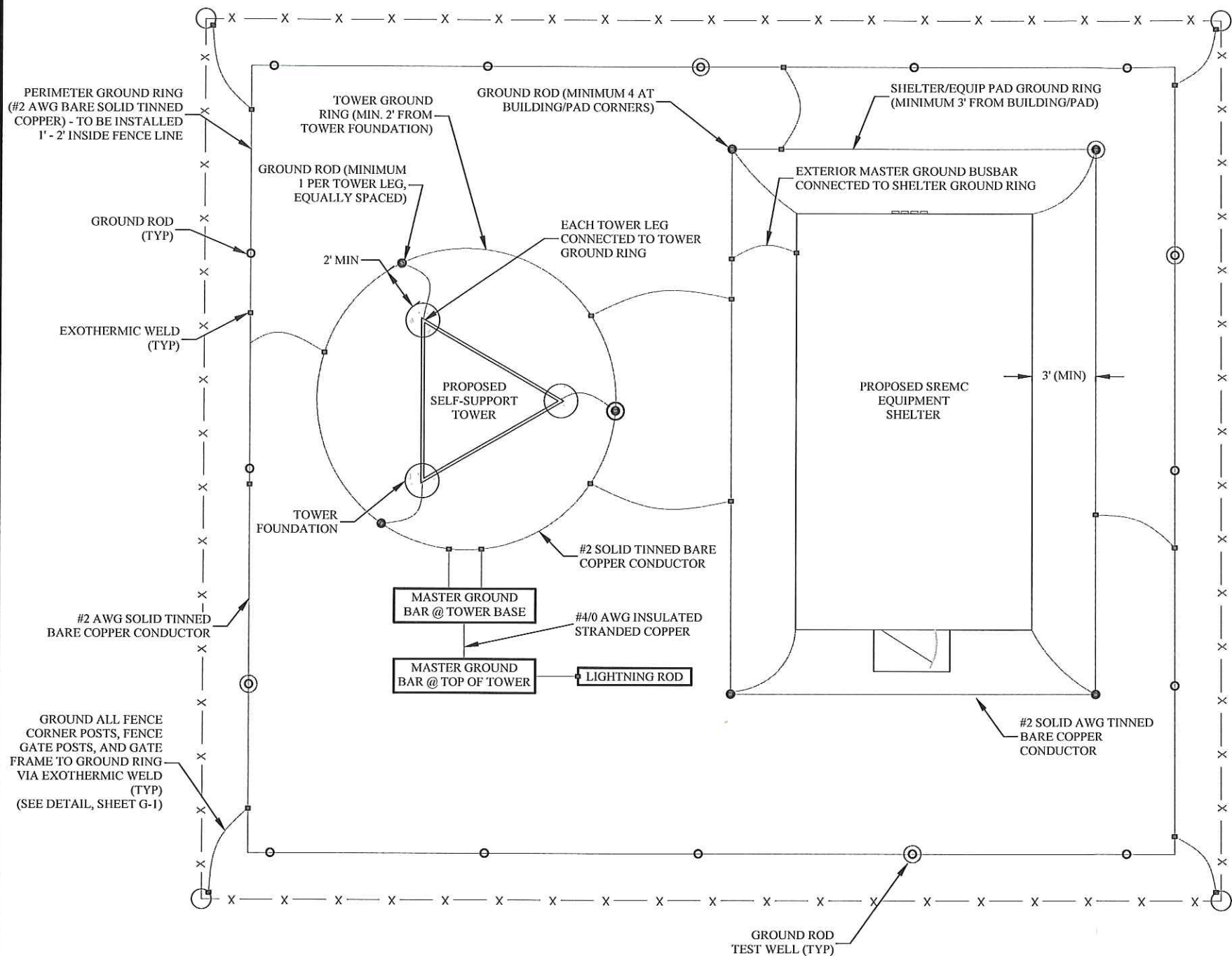
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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

GROUNDING SINGLE LINE DIAGRAM



- NOTES:**
1. ALL GROUNDING SYSTEM SCHEMATICS/DIAGRAMS ARE INTENDED TO REPRESENT TYPICAL INSTALLATION SCENARIOS. VARYING SITE CONDITIONS MAY REQUIRE MODIFICATION OF THE DETAILS PRESENTED HEREIN. ALL GROUNDING SYSTEM GUIDELINES AND COMPONENTS SHOULD ADHERE TO THE SPECIFICATIONS SET FORTH IN THE LATEST VERSION OF TIA-607 OR THE NATIONAL ELECTRIC CODE, WHICHEVER IS MORE STRINGENT
 2. SITE GROUNDING SYSTEM MUST ACHIEVE A RESISTANCE OF 5 OHMS OR LESS
 3. ALL GROUND RINGS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 2.5-FT BELOW GRADE OR 6-INCHES BELOW THE FROST LINE, WHICHEVER IS GREATER
 4. ALL GROUND RODS SHALL BE INSTALLED TO A MINIMUM DEPTH OF 10-FT BELOW THE GROUND RING
 5. TOWER GROUND RING SHALL BE BONDED TO SHELTER/EQUIP PAD GROUND RING AND PERIMETER GROUND RING IN (2) LOCATIONS. SHELTER/EQUIPMENT PAD GROUND RING SHALL BE BONDED TO THE PERIMETER GROUND RING IN (2) LOCATIONS.
 6. ALL SHELTER, EQUIPMENT PAD, AND TOWER FOUNDATIONS SHALL HAVE REBAR ELECTRICALLY CONNECTED TO THEIR ASSOCIATED GROUND RING (TOWER, SHELTER/EQUIP PAD) PER NEC 250.52(3)(A). FOUNDATION GROUNDING CONNECTIONS SHALL HAVE A MINIMUM COVER OF 3" OF CONCRETE AND SHALL BE MADE TO A MINIMUM 6' LENGTH OF REBAR (20' IS PREFERABLE).
 7. GROUND ALL CORNER FENCE POSTS, GATE POSTS, AND GATE FRAME TO THE GROUND RING VIA EXOTHERMIC WELD. GROUND ANY GATE POST WITHIN 6' OF A SHELTER/EQUIPMENT PAD OR 25-FT OF THE TOWER TO THE GROUND RING VIA EXOTHERMIC WELD.
 8. FOR TOWERS NOT EXCEEDING 5-FT IN BASE WIDTH, A MINIMUM OF (2) GROUND RODS SHOULD BE INCLUDED IN THE TOWER GROUND RING, SPACED OPPOSITE EACH OTHER.
 9. FOR SELF SUPPORT TOWERS EXCEEDING 5-FT IN BASE WIDTH, A MINIMUM OF ONE GROUND ROD PER TOWER LEG SHOULD BE INCLUDED IN THE TOWER GROUND RING.
 10. FOR MONOPOLES EXCEEDING 5-FT IN BASE WIDTH, THE GROUND RING SHOULD INCLUDE (4) GROUND RODS, EQUALLY SPACED; THERE SHOULD ALSO BE (4) BONDING CONDUCTORS CONNECTED TO THE MONOPOLE TOWER, EQUALLY SPACED.
 11. BOND PROPANE TANK(S), GENERATOR(S), AND ALL MISCELLANEOUS METALLIC EQUIPMENT TO THE SITE GROUNDING SYSTEM.
 12. GROUND ALL EXPOSED METALLIC OBJECTS ON THE BUILDING/SHELTER EXTERIOR
 13. ALL CONDUITS CROSSING THE GROUND RING CONDUCTOR SHALL BE BONDED TO THE GROUND CONDUCTOR USING A PIPE CLAMP. DO NOT EXOTHERMICALLY WELD TO CONDUIT.
 14. GROUNDING CONDUCTORS SHALL NOT HAVE A RADIUS LESS THAN 8" OR AN ANGLE OF BEND LESS THAN 90 DEGREES.
 15. ALL BONDING CONNECTIONS SHALL BE MADE VIA EXOTHERMIC WELDING OR LISTED IRREVERSIBLE COMPRESSION OR MECHANICAL CONNECTORS. ALL BELOW GRADE CONNECTIONS SHOULD BE MADE VIA EXOTHERMIC WELD.
 16. ALL ABOVE GRADE CONNECTIONS EXTENDING BENEATH THE GROUND SURFACE SHOULD BE ENCASED IN 3/4" PVC FLEX CONDUIT THAT EXTENDS A MINIMUM 12" BELOW GRADE; ALL FLEX CONDUIT OPENINGS SHALL BE WEATHERPROOFED
 17. UNLESS OTHERWISE NOTED, ALL EXTERIOR GROUNDING CONDUCTORS, INCLUDING GROUND RINGS, SHALL BE #2 AWG SOLID BARE TINNED COPPER. CONFIGURE ALL GROUNDING CONNECTIONS AS SHORT AND STRAIGHT AS POSSIBLE. GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED GROUND RING.
 18. ALL GROUND MECHANICAL AND COMPRESSION CONNECTIONS SHALL BE COATED WITH ANTI-OXIDANT AGENT
 19. PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.
 20. ALL LUG CONNECTIONS SHALL BE 2 HOLE LONG BARREL COMPRESSION TYPE OR APPROVED EQUAL
 21. REMOVAL ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS. SURFACES SHOULD BE REPAINTED TO MATCH (AFTER CONNECTION IS MADE) TO MAINTAIN CORROSION RESISTANCE.
 22. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING; USE SPRAY GALVANIZER
 23. WHERE MECHANICAL CONNECTORS ARE USED, APPLY A LIBERAL PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND ON ALL CONNECTORS
 24. THE TOWER BASE GROUND BUSBAR SHALL BE INSTALLED BELOW THE TRANSMISSION LINE GROUND KITS, NEAR THE AREA OF THE TOWER WHERE THE ANTENNA TRANSMISSION LINES TRANSITION FROM THE TOWER TO THE EQUIPMENT/ICE BRIDGE.
 25. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUND RING IS INSTALLED SO THAT IT CAN BE INSPECTED PRIOR TO BACKFILL

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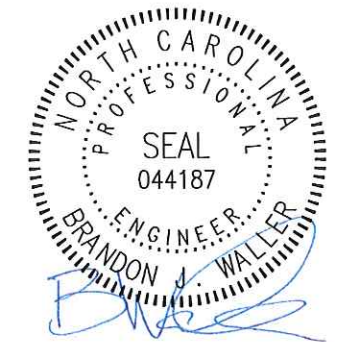
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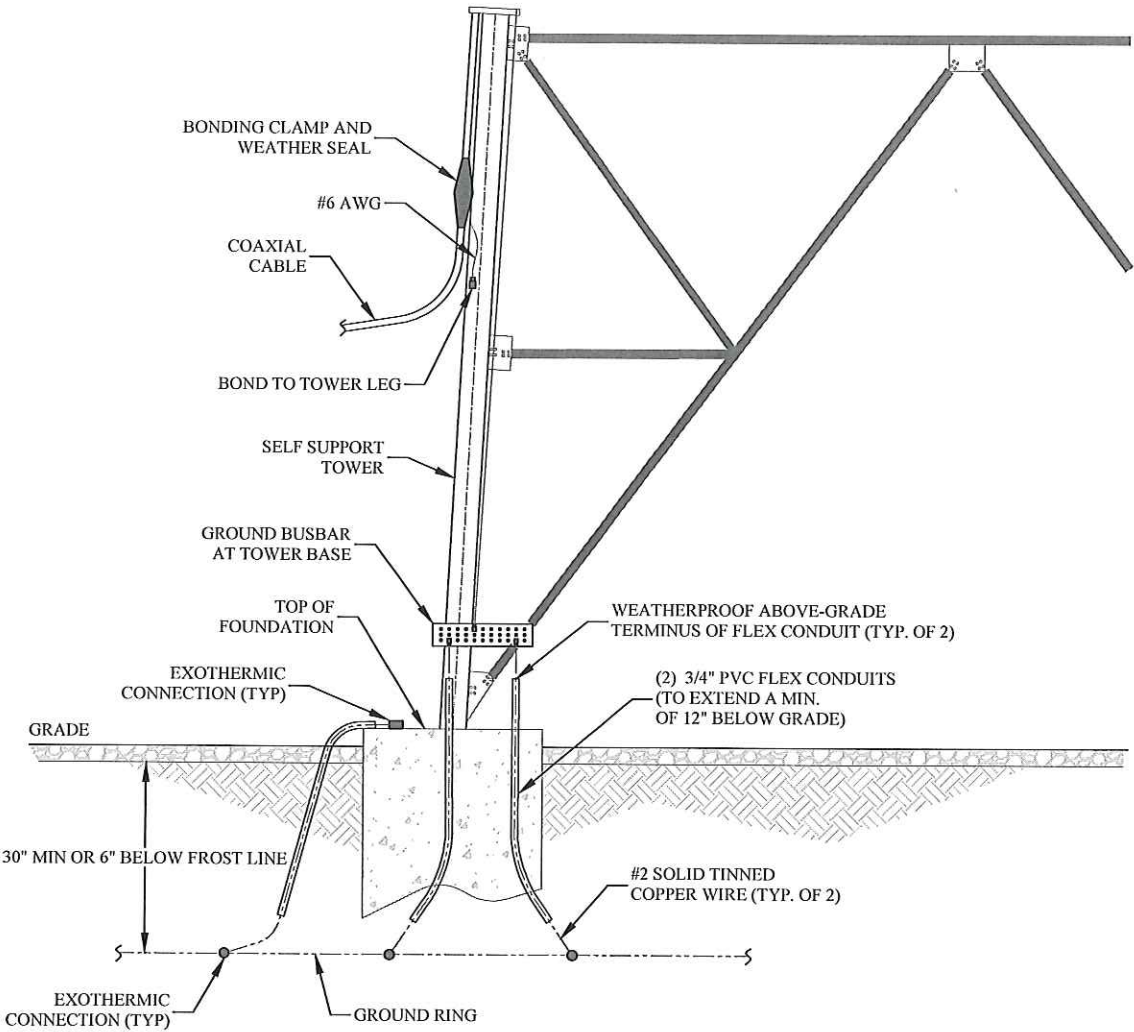
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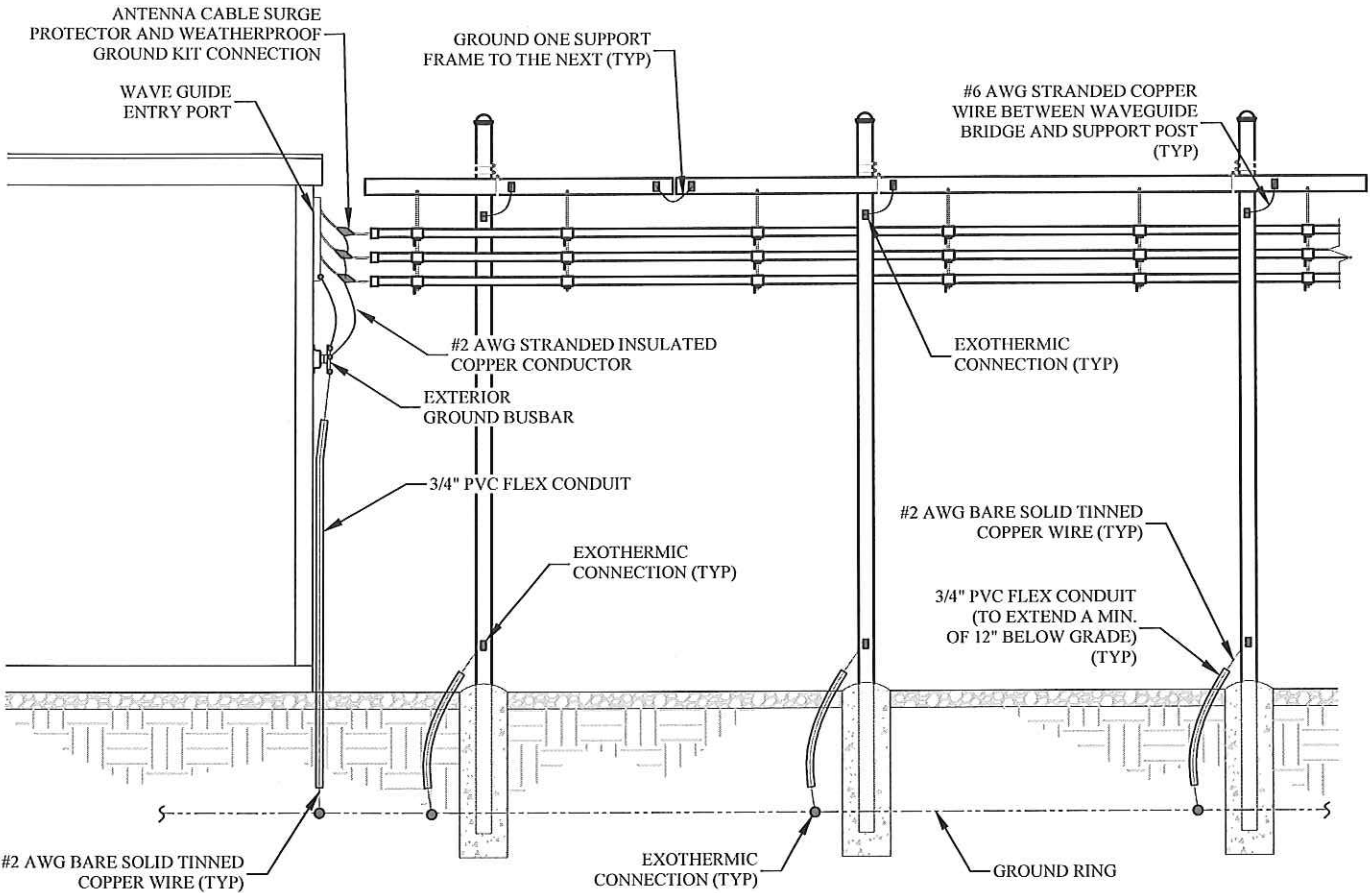
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-2

GROUNDING AT TOWER BASE

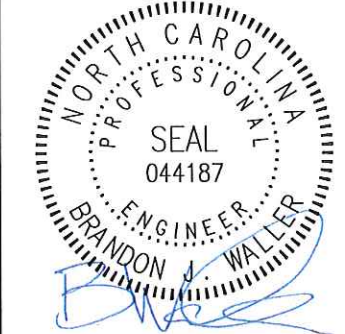


GROUNDING AT CABLE BRIDGE



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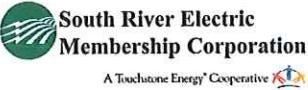
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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-3

GENERAL NOTES		GENERAL NOTES (CONT.)	GRADING (CONT.)	
1. THE SCOPE OF WORK DEPICTED IN THIS PLANSET MUST BE COMPLETED UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE SUBSTANTIAL EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR IS CONFIRMING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY TO COMPLETE THE WORK, THAT HE IS KNOWLEDGEABLE OF THE SCOPE OF WORK TO BE PERFORMED AND THAT HE IS LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED. 2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST VERSION OF THE LOCAL AND NATIONAL BUILDING CODE, WHICHEVER IS MORE STRINGENT. 3. SHOP DRAWINGS AND/OR MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS REGARDING ANY HARDWARE, INFRASTRUCTURE, OR MATERIALS SPECIFIED HEREIN SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING INFORMATION CONTAINED HEREIN. 4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS NOT PROVIDED BY OWNER. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMITS AS ISSUED AND ANY AND ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES. 5. THE CONTRACTOR SHALL VERIFY ALL EXISTING TOPOGRAPHY, DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS ARE AS INDICATED ON THESE DRAWINGS. ADDITIONALLY, THE CONTRACTOR SHALL ESTABLISH THE LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND OWNER'S ENGINEER FOR RESOLUTION AND/OR MODIFICATION PRIOR TO COMMENCEMENT OF THE WORK. 6. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE REPLACED OR RESTORED TO THEIR ORIGINAL CONDITION OR BETTER, AND TO THE SATISFACTION OF THE OWNER OF THE IMPROVEMENTS 7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, AND/OR ANY OTHER REQUIREMENTS WHICH MUST BE MET TO FULFILL THE SCOPE OF WORK AS REPRESENTED IN THIS PLAN SET, OBTAIN A CERTIFICATE OF OCCUPANCY, OR OTHERWISE ALLOW FOR THE FULL INTENDED USE OF THE PROPOSED FACILITY 8. THESE PLANS/DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR ENGINEER SHALL NOT INCLUDE INSPECTION OF THE CONSTRUCTION PROCEDURES AND DOES NOT ALLEVIATE CONTRACTOR FROM THE FOREGOING. ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS. 9. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE AND IMPLEMENT BOTH THE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE, ALL SURROUNDING INFRASTRUCTURE, WORKSPACE, EMPLOYEES, AND PUBLIC DURING ERECTION AND/OR MODIFICATIONS. THIS INCLUDES BUT IS NOT LIMITED TO TEMPORARY BRACING, GUYS, TIE DOWNS, OR OTHER SUPPORTS THAT MAY BE NECESSARY DURING CONSTRUCTION. 10. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTION MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. 11. IF DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEVIATION AND REASONS THEREOF SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW. NO DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER AND/OR ENGINEER 12. THE CONTRACTOR MUST, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES, OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS 13. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS (INCLUDING THE GENERAL PUBLIC) AND PROPERTY (INCLUDING ADJOINING PROPERTIES). THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.		13. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL WORK ASSOCIATED WITH THIS PROJECT COMPLIES WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY CODES AND OTHER REGULATIONS GOVERNING THE WORK. 14. ACCESS TO THE PROPOSED SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OR THE OWNER'S REPRESENTATIVE REGARDING ALL CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIAL ACCESS.	5. THE CONTRACTOR SHALL REWORK ALL MATERIALS NOT SUITABLE FOR USE IN THEIR PRESENT STATE DUE TO MOISTURE CONTENT VARIATION. IF THE MATERIAL REMAINS UNSUITABLE AFTER INITIAL REWORKING, THE CONTRACTOR SHALL REMOVE AND REPLACE WITH NEW MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. 6. ALL TEMPORARY AND FINISHED GRADES MUST MAINTAIN ADEQUATE SURFACE DRAINAGE SO THAT RUN-OFF IS DIRECTED TO DEDICATED OFF-SITE AREAS OR TO ON-SITE COLLECTION POINTS SUCH AS SWALES, CATCH BASINS, DROP INLETS, CULVERTS, STORMWATER BMP'S, ETC. TO PREVENT SURFACE PONDING, STANDING WATER, OR EXTENDED PERIODS OF SOIL SATURATION.	
		EXISTING INFRASTRUCTURE		
		1. EXISTING PROPERTY BOUNDARY INFORMATION IS TAKEN FROM A DRAWING ENTITLED "SURVEY PLAT" AND DATED JANUARY 13, 2003 BY MOORMAN, KIZER & REITZEL, INC. 2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN THE AREA OF ANY PROPOSED CONSTRUCTION OR PROPOSED DISTURBANCE DUE TO CONSTRUCTION. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES AND IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS OR IF THERE APPEARS TO BE A CONFLICT BETWEEN EXISTING AND PROPOSED UTILITY LOCATIONS.		
		UTILITIES		
		1. CONTRACTOR SHALL COORDINATE WITH THE OWNER REGARDING THE REQUIREMENTS AND LIMITS OF CLEARANCE FOR OVERHEAD AND/OR UNDERGROUND ELECTRICAL SERVICE 2. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND TESTED SATISFACTORILY PRIOR TO COMMENCING ANY PAVING ACTIVITY WHERE SUCH UTILITIES ARE WITHIN THE LIMITS OF PAVEMENT 3. UNLESS OTHERWISE SPECIFIED HEREIN, MINIMUM COVER FOR CONDUITS SHALL BE 36-INCHES		
		GRADING		
		1. CONTRACTOR IS TO CONTACT NORTH CAROLINA 811, INC. AT 1-800-632-4949 OR 811 FOR UNDERGROUND UTILITY LOCATION 48 HOURS PRIOR TO ANY GROUND DISTURBANCE. 2. ALL CONSTRUCTION AREAS ARE TO BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL, ORGANICS AND UNSUITABLE MATERIALS PRIOR TO GRADING AND IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. 3. EXCAVATIONS SHOULD BE SLOPED OR SHORED IN ACCORDANCE AND COMPLIANCE WITH OSHA 29 CFR PART 1926, EXCAVATION TRENCH SAFETY STANDARDS AS WELL AS LOCAL, STATE AND FEDERAL REGULATIONS. 4. ALL FILL PLACEMENT INCLUDING SUITABILITY OF FILL MATERIALS AND COMPACTION OF MATERIALS SHOULD BE CONDUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT. IN THE ABSENCE OF FILL SPECIFICATIONS, THE FOLLOWING MINIMUM REQUIREMENTS SHOULD BE ADHERED TO:	7. CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES SPECIFIED HEREIN AND ANY ADDITIONAL CONTROLS THAT MAY BECOME NECESSARY IN ORDER TO ENSURE THE PROTECTION OF ADJACENT PROPERTIES AND WATERWAYS. ALL TEMPORARY DEVICES SHALL BE APPROPRIATELY MAINTAINED UNTIL ALL EARTH DISTURBING ACTIVITIES HAVE CEASED AND THE PROJECT IS STABILIZED AND APPROVED. 8. EROSION CONTROL MEASURES SHALL BE CHECKED DAILY AND IMMEDIATELY FOLLOWING ANY RAINFALL EVENTS. ANY NOTED DEFICIENCIES WILL BE CORRECTED IMMEDIATELY (NO LATER THAN THE END OF EACH DAY). IMMEDIATELY UPON THE DISCOVERY OF UNFORESEEN CIRCUMSTANCES THAT POSE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION. 9. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA OWNER DESIGNATED CONSTRUCTION ENTRANCES	
		EROSION AND SEDIMENT CONTROL		
		1. THE TOTAL PROJECT AREA IS 2,800 SQUARE FEET. 2. THE RECEIVING WATERCOURSE IS AN UNNAMED TRIBUTARY TO CEDAR FALLS CREEK. 3. NO FEMA MAPPED FLOODPLAIN EXISTS ON THIS SITE PER FIRM #3720053100J WITH EFFECTIVE DATE JANUARY 5, 2007. 4. DISTURBED AREAS SHOULD BE STABILIZED WITHIN 15 DAYS DURING ANY PHASE OF GRADING 5. STREETS ADJACENT TO THE PROJECT SHALL BE KEPT CLEAN AT ALL TIMES FROM SEDIMENT OR OTHER CONSTRUCTION GENERATED MATERIAL OR A WASH STATION WILL BE REQUIRED 6. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS REGARDING EROSION AND SEDIMENT CONTROL FOR THE AGENCY HAVING JURISDICTION OVER CLEARING AND GRADING PROCEDURES. UTILIZE BEST MANAGEMENT PRACTICES (BMPs) DESCRIBED IN THE GOVERNING AGENCY'S OR APPLICABLE STATE'S CODE IN ORDER TO BOTH PREVENT/MINIMIZE CONCENTRATED FLOWS THROUGH OR ACROSS UNSTABILIZED/DENUDED AREAS AND PREVENT/MINIMIZE SEDIMENT LADEN STORMWATER RUNOFF FROM LEAVING THE CONSTRUCTION SITE. SPECIFIC BMP EXAMPLES INCLUDE SILT FENCE, CONSTRUCTION ENTRANCE(S), PERIMETER DIVERSION SWALES, INLET PROTECTION, AND OTHER APPLICABLE MEASURES.		

PREPARED FOR:



South River Electric
Membership Corporation

A Touchstone Energy® Cooperative

SOUTH RIVER ELECTRIC
MEMBERSHIP CORPORATION
6491 RAMESEY STREET
FAYETTEVILLE, NC 28311

PREPARED BY:



DELTA OAKS
GROUP

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4904 PROFESSIONAL COURT
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BRANDON J. WALLER NC PE # 044187
DATE: 11/03/17

DRAWN BY:BJW

CHECKED BY:WRB

APP'VD:WRB

PROJECT NO:17-01377

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
11/03/17	FOR ZONING	0	BJW

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SITE NAME:

FAYETTEVILLE (FDO)

SITE ADDRESS:

6491 RAMSEY STREET
FAYETTEVILLE, NC 28311

SITE ID:

FDO

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1