

# Memorandum

## Department of Planning



**To:** Planning and Public Works Committee

**From:** Isaak Simmers, Planner *IS*

**Date:** June 6, 2024

**RE:** **FSP 60-2024 VERIZON (13703 Olive Blvd)**: A request for a new Facilities Siting Permit to install a new cell pole and accompanying infrastructure and a new power pole with transformer located in the City of Chesterfield right-of-way at the Dierbergs Meditation Park at the northwest intersection of Olive Boulevard and River Valley Drive (Ward 1).

### **Summary**

Selective Site Consultants, Inc., on behalf of Verizon, has submitted a Facilities Siting Permit (FSP) application to furnish and install two (2) new 31'-9" tall 1'-2" diameter wood utility poles and accompanying infrastructure within an existing City of Chesterfield Right-of-Way at the Dierbergs Meditation Park at the northwest intersection of Olive Boulevard and River Valley Drive.

The plan has proposed a new pole furnished with Verizon telecommunication equipment, as well as an antenna. The pole will be set back 12.1' from the back of the curb to River Valley Drive and will be located in between two existing intersecting sidewalks. There is an additional proposed pole and transformer to be installed by Ameren, located southwest of the one to be installed by Verizon. The two poles will be connected via a 2" underground conduit running almost parallel to the existing sidewalk.

### **Staff Analysis**

Section 405.060 of the City Code contains requirements for wireless communication facilities. Staff review of the submittal materials has found them to be complete and the code requires review and recommendation by the Planning and Public Works Committee to be forwarded to City Council for final approval.

The proposed facility is 35' in height and complies with the height requirements for facilities located within the right-of-way. Additionally, the height is consistent with other similar facilities that have been approved by the City of Chesterfield for small cell facilities within the right-of-way. City Code also requires that new facilities, whether in right-of-way or on private property, shall not be within 110% of the

City Code also requires that, "No new wireless facility shall be constructed within a distance greater than or equal to one hundred ten percent (110%) of the height of the wireless facility structure in relation to the nearest structure designed for occupancy. Per City Code, new installations must be a minimum of 500' from existing

facilities. City Council has approved two installations in the vicinity; however, both locations are compliant with the spacing requirement.” The proposed installation complies with this requirement aswell.

No landscaping has been proposed. Per City Code, landscaping is not permitted in street right-of-way, and if any existing landscape is damaged or removed during construction, it will be repaired and/or replaced in kind by the applicant. The applicant has included a traffic control plan for River Valley Drive, indicating the location of traffic signs and cones during construction in compliance with Missouri Traffic Control Standards. The plan has indicated the contractor will close the sidewalk as necessary and has shown the location of the closure on the Traffic Control Plan.

**Recommendation**

Staff has reviewed the proposed wireless facility. The submittal complies with all requirements in Article 6 of the Unified Development Code and is to be reviewed by the Planning and Public Works Committee.

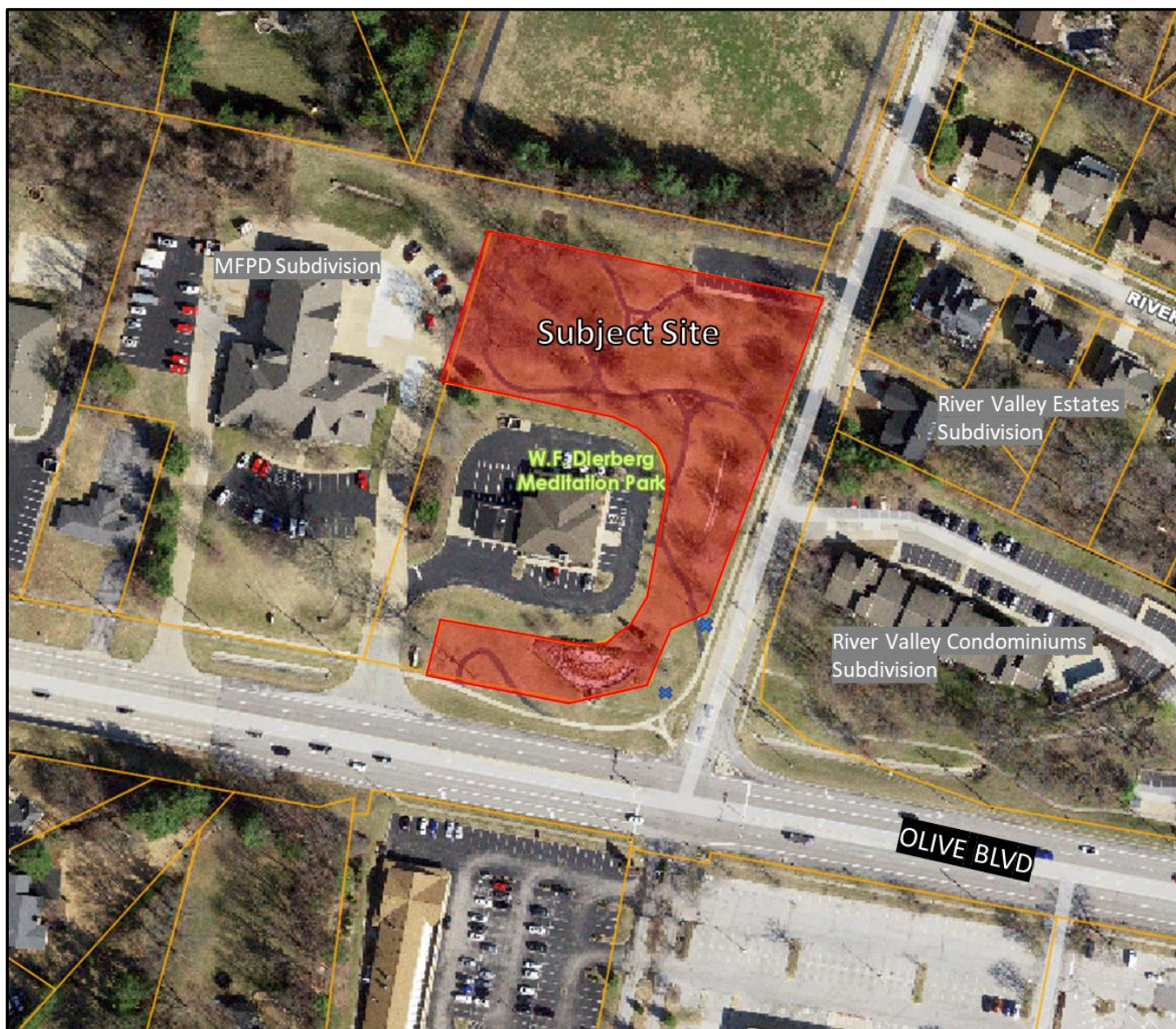


Figure 1: Subject Site



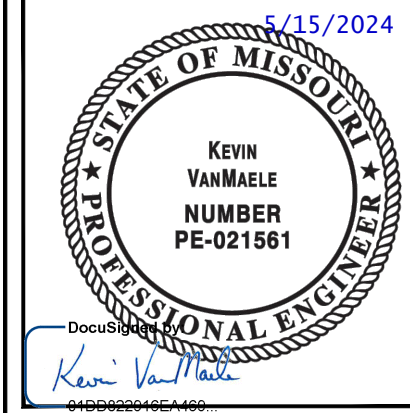
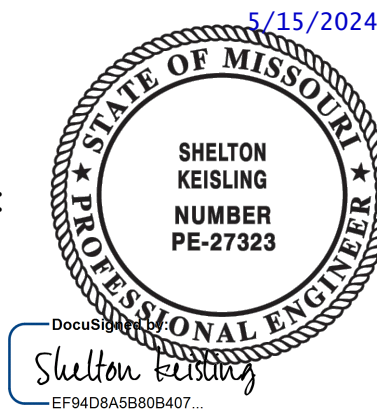
**SITE NAME:**  
STLC CHF FS 03SC

**MDG LOCATION #:**  
5000889198

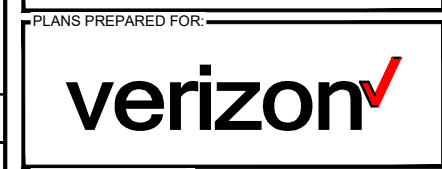
**FILE NAME:**  
STLC CHF FS 03SC - Rev 2 - 042424

**SITE ADDRESS:**  
13703 OLIVE BLVD  
CHESTERFIELD, MISSOURI

**POLE DESCRIPTION:**  
31'-9" TALL 1'-2" DIAMETER WOOD UTILITY POLE SMALL CELL



ENGINEERING LICENSE:		
STATE OF MISSOURI		
STATE CERTIFICATE OF AUTHORIZATION # EF-2791		
ENGINEER:	PE#:	DISCIPLINE:
KMV KEVIN M. VANMAELE 21561		CIVIL C
REJ ROBERT E. JENSEN 28974		CIVIL
SDK SHELTON D. KEISLING E-27323		ELECTRICAL E
TMS TERRANCE M. SUPER E-18521		ELECTRICAL



**PLANS PREPARED BY:**  
SSC  
7171 West 95th Street, Suite 600  
Overland Park, Kansas 66212  
Phone: 913-438-7700  
Fax: 913-438-7777

<b>SITE INFORMATION</b>
<b>1A INFORMATION:</b> LAT(NAD83): 38° 40' 50.52" N LONG(NAD83): 90° 30' 19.55" W
<b>E911:</b> 13703 OLIVE BLVD CHESTERFIELD, MO COUNTY: ST. LOUIS
<b>EQUIPMENT &amp; POWER INFO:</b> SERVICE ADDRESS: 13703 OLIVE BLVD CHESTERFIELD, MO 63017 TRANSFORMER #: TBD POWER PROVIDER: AMEREN VOLTAGE: TO MATCH EXISTING FIXTURE WATTAGE: TO MATCH EXISTING



<b>APPLICABLE CODES</b>
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
<ol style="list-style-type: none"> <li>INTERNATIONAL BUILDING CODE</li> <li>INTERNATIONAL MECHANICAL CODE</li> <li>ANSI/TIA-222 STRUCTURAL STANDARD</li> <li>NFPA 780 - LIGHTNING PROTECTION CODE</li> <li>UNIFORM PLUMBING CODE</li> <li>NATIONAL ELECTRICAL CODE</li> <li>NATIONAL ELECTRIC SAFETY CODE (NEC)</li> <li>AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 6TH EDITION</li> <li>AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND ANY SUPPLEMENT CHANGES.</li> <li>AMERICAN WITH DISABILITIES ACT (ADA) OF 1990.</li> <li>AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), A117.1 ACCESSIBLE AND USABLE BUILDING AND FACILITIES STANDARD</li> <li>OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970</li> <li>NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE (LATEST EDITION)</li> </ol>

<b>DRAWING INDEX</b>		
SHEET NO	SHEET TITLE	ENGINEER
T-1	TITLE SHEET	C/E
GN-1.0	GENERAL NOTES (1 OF 2)	C/E
GN-1.1	GENERAL NOTES (2 OF 2)	C/E
-	SURVEY (BY OTHERS)	
A-1.0	SITE PLAN	C
A-2.0	POLE ELEVATION	C
A-3.0	EQUIPMENT DETAILS (1 OF 2)	C
A-3.1	EQUIPMENT DETAILS (2 OF 2)	C
A-4.0	CABLE DIAGRAM & DETAILS	C
A-5.0	FOUNDATION DETAILS	C
TCP	TRAFFIC CONTROL PLAN	C
E-1.0	ELECTRICAL DETAILS	E
G-1.0	GROUNDING RISER DIAGRAM	E

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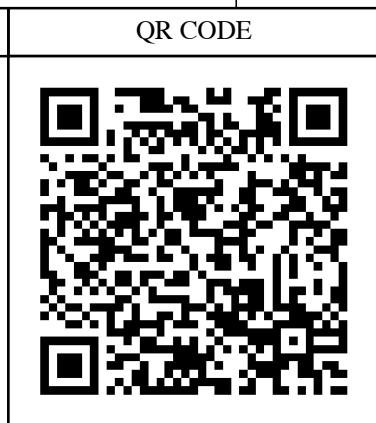
ISSUED FOR REVIEW	DESCRIPTION	DATE	BY	REV
REISSUED FOR REVIEW		01/20/22	CZW	A
REISSUED FOR REVIEW		10/13/22	CJO	B
REISSUED FOR REVIEW		10/18/23	ABT	C
ISSUED FOR CONSTRUCTION		12/18/23	DSL	0
REISSUED PER CLIENT COMMENTS		03/14/24	ABT	1
REVISED PER POWER COORD		04/24/24	DSL	2

<b>CONSULTING TEAM</b>
<b>ENGINEER:</b> SSC, INC. 7171 WEST 95TH STREET, SUITE 600 OVERLAND PARK, KANSAS 66212 PHONE: (913) 438-7700 FAX: (913) 438-7777
<b>LESSOR:</b> VERIZON WIRELESS 10740 NALL AVE SUITE 400 OVERLAND PARK, KANSAS 66211 PHONE: (913) 438-7700 FAX: (913) 438-7777
<b>JURISDICTION:</b> CITY OF CHESTERFIELD, 690 CHESTERFIELD PKWY W CHESTERFIELD, MISSOURI 63017

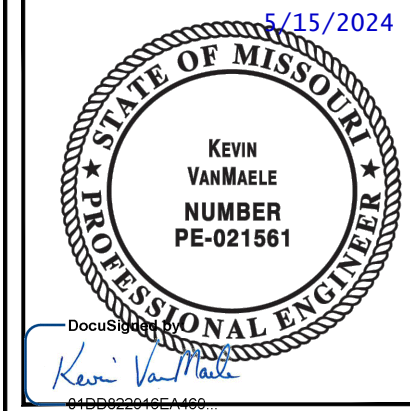
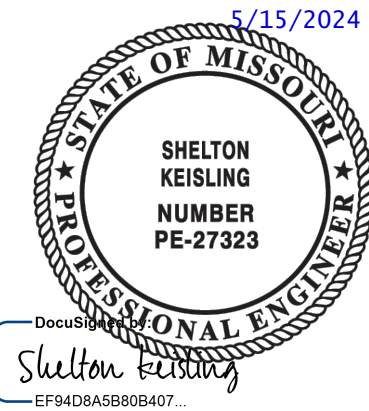


<b>DRAWING NOTICE</b>
11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED
THESE SITE PLANS ADHERE TO ALL OF THE REQUIREMENTS CALLED OUT IN THE JURISDICTION PLANNING AND ZONING FOR ANTENNAS AND SUPPORT STRUCTURES WHERE SITE IS LOCATED
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS / CONDITIONS ON SITE, IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME.
ALL TELECOM WORK TO BE COMPLETED BY CONTRACTOR EXPERIENCED WITH VERIZON. INSTALLATION AND CLOSEOUT PROCEDURES.

<b>PROJECT DESCRIPTION</b>
<b>VZW CONTRACTOR:</b>
<ul style="list-style-type: none"> <li>FURNISH AND INSTALL NEW POLE WITHIN AN EXISTING RIGHT-OF-WAY.</li> <li>INSTALL TELECOM EQUIPMENT ON NEW POLE</li> <li>INSTALL TELECOM ANTENNA ON NEW POLE INSTALL NEW POWER SERVICE</li> <li>INSTALL NEW VZW DARK FIBER SERVICE</li> </ul>



<b>SITE NAME:</b> STLC CHF FS 03SC
<b>MDG LOCATION #:</b> 5000889198
<b>SITE ADDRESS:</b> 13703 OLIVE BLVD CHESTERFIELD, MISSOURI 63017
<b>SHEET DESCRIPTION:</b> TITLE SHEET
<b>SHEET #:</b> T-1



**GENERAL NOTES:**

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENT AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT.
- B. IMPORTANT NOTICE: CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-344-7233, THREE DAYS BEFORE YOU DIG. THE CONTRACTOR SHALL OBTAIN LOCATES FOR STREETLIGHTING, TRAFFIC SIGNAL AND FIBER OPTIC CONDUITS/CABLES.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN A 1' MINIMUM VERTICAL CLEARANCE.
- D. IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVED PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND PER THE APPROVED PLANS.
- E. CONTRACTOR SHALL REPLACE OR REPAIR ALL CITY INFRASTRUCTURE DAMAGED DURING CONSTRUCTION.
- F. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND FIELD ENGINEERING DIVISION.
- G. MANHOLES OR COVERS SHALL BE LABELED SSC, EXCEPT FOR MANHOLES OR COVERS PLACED ON BEHALF OF THE MUNICIPALITY FOR THEIR EQUIPMENT.
- H. CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- I. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION

**SPECIAL NOTES:**

- A. INDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD SSC, REPRESENTATIVES, AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- B. ALL WORK SHALL CONFORM TO THE LATEST STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AS ADOPTED BY THE CITY, COUNTY OR STATE AS MODIFIED BY STANDARD PLANS AND ADDENDUMS
- C. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCY'S FACILITIES AS SHOWN HERON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTORS SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLY FOR THE PROTECTION ALL UTILITY OF AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- D. THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT, AT LEAST TWO TWO DAYS BEFORE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- E. THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS CONSTRUCTION PROJECT.
- F. THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 36 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- G. THE CONTRACTOR SHALL TUNNEL ALL CURB AND GUTTER AND BORE ALL CONCRETE DRIVEWAYS AND WALKWAYS AT THE DIRECTION OF THE CITY, COUNTY OR STATE ENGINEER
- H. ALL A.C AND/OR CONCRETE PAVEMENT SHALL BE REPLACED AT THE DIRECTION OF THE CITY, COUNTY STATE ENGINEERS
- I. ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- J. THE CONTRACTOR WILL BE RESPONSIBLY FOR THE PROCESSING OF ALL APPLICANT PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS. CLEARLY DEMONSTRATING THE SSC, THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE FOR THIS CONSTRUCTION PROJECT.
- K. VAULTS, PEDESTALS, CONDUITS AN OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER, IN WRITING BEFORE INSTALLATION THEREOF. ANY EQUIPMENT OR MATERIALS PLACED ON BEHALF OF THE GOVERNING MUNICIPALITY (STREET LIGHT MATERIALS FOR EXAMPLE) WILL BE SAID MUNICIPALITY'S APPROVED MATERIALS LIST.
- L. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES INCLUDING SEWER LATERALS & WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
- M. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
- N. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE, WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTAL AND VERTICALLY. PRIOR TO CONSTRUCTION, IF EXISTING LOCATION VARY SUBSTANTIALLY FROM THE PLANS. THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.

**EROSION AND SEDIMENT CONTROL NOTES:**

- TEMPORARY EROSION/SEDIMENT CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- A. ALL REQUIREMENTS OF THE CITY, COUNTY AND STATE "STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCC).
  - B. FOR STORM DRAIN INLETS, PROVIDE AS GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM INLET AS INDICATED ON DETAILS.
  - C. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES. THE CONTRACTOR SHALL ENSURE WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OF DIKES
  - D. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLY FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
  - E. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL
  - F. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
  - G. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
  - H. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OF RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
  - I. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE
  - J. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
  - K. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL INCORPORATED HERON. ALL EROSION.SEDIMENT CONTROL FOR INTERIM CONDITION SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
  - L. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY
  - M. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IMMINENT
  - N. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.

STAMP: 5/15/2024

STATE OF MISSOURI PROFESSIONAL ENGINEER KEVIN VANMAELE NUMBER PE-021561

DocuSigned by: Kevin VanMaele

04DD922946E1469...

ENGINEERING LICENSE: STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER:	PE#:	DISCIPLINE:	CC
KMV KEVIN M. VANMAELE	21561	CIVIL	
REJ ROBERT E. JENSEN	28974	CIVIL	
SDK SHELTON D. KEISLING	E-27323	ELECTRICAL	
TMS TERRANCE M. SUPER	E-18521	ELECTRICAL	

PLANS PREPARED FOR:

PLANS PREPARED BY:

7171 West 95th Street, Suite 600  
Overland Park, Kansas 66212  
Phone: 913-438-7700  
Fax: 913-438-7777

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SUBMITTALS:	DESCRIPTION	DATE	BY	REV
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SITE NAME:  
STLC CHF FS 03SC

MDG LOCATION #:  
5000889198

SITE ADDRESS:  
13703 OLIVE BLVD  
CHESTERFIELD, MISSOURI  
63017

SHEET DESCRIPTION:  
GENERAL NOTES  
(1 OF 2)

SHEET #:  
GN-1.0

**ROW GROUND CONSTRUCTION NOTES:**

- A. 120/240V OR 120/208V POWER REQUIRED FOR 1-PHASE, 3-WIRE SERVICE.
- B. GC TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES OR NON-USED VERTICALS OFF THE POLE
- C. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, AND FEDERAL STANDARDS AND REGULATIONS.
- D. CALL DIG SAFE USA 72 HOURS PRIOR TO EXCAVATING AT (800) 344-7233.
- E. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER
- F. ALL EQUIPMENT TO BE BONDED
- G. METERING CABINET REQUIRES 3' CLEARANCE AT DOOR OPENING.
- H. CAULK CABINET BASE AT PAD

**STANDARD GROUNDING NOTES:**

- A. GROUND TESTED AT 5 OHMS OR LESS
- B. 5/8" X 10'-0" ROD, EXOTHERMIC CONNECTION BELOW GRADE
- C. #6 WIRE. FOR GROUNDING AND BONDING
- D. WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END
- E. GROUND RODS 3' FROM POLE.

**STANDARD CONDUIT NOTES:**

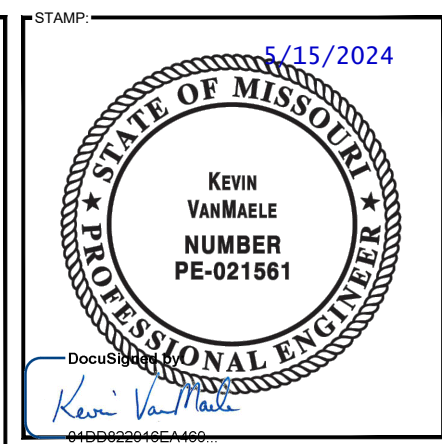
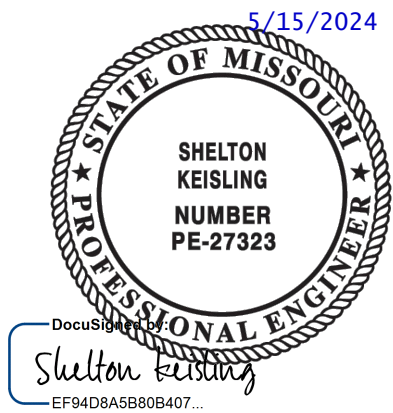
- A. FOR UNDERGROUND USE SCHEDULE 40 CONDUIT.
- B. FOR RISERS USE SCHEDULE 80 CONDUIT.
- C. PLACE 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3".
- D. CONVERT 4" CARRIER CONDUIT TO 3" AT BASE OF POLE.
- E. GC TO STUB UP POLE 10' W/3" POWER CONDUIT, POWER CO. TO CONVERT FROM 3" SCH. 80 TO 2" SCH. 80 FROM TOP OF STUB UP.
- F. ALL CONDUIT SHALL BE MANDREL TESTED AND EQUIPPED WITH 3/8" PULL ROPE.

**STANDARD CONDUIT NOTES:**

- A. SAND BEDDING MINIMUM 1" UNDER CONDUITS, AND 6" SANDSHADING ON TOP REQUIRED.
- B. ALL TRENCHED ELECTRICAL SERVICE CONDUITS FROM POWER COMPANY, WHETHER FROM POLES, TRANSFORMERS, OR OTHER LOCATIONS; WILL BE SLURRY BACKFILLED
- C. IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- F. IN DIRT SLURRY 18" FROM GRADE, AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.
- G. PLACE WARNING TAPE IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE GROUND RING

**ROW GROUND CONSTRUCTION NOTES:**

- A. NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2".
- B. FILL ALL HOLES LEFT IN POLE FROM REARRANGEMENT OF CLIMB STEPS.
- C. ALL CLIMB STEPS NEXT TO CONDUITS SHALL HAVE EXTENDED STEPS.
- D. CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE (12:00)
- E. 90° SHORT SWEEPS UNDER ANTENNA ARM. ALL CABLES MUST ONLY TRANSITION ON THE INSIDE OR BOTTOM OF ARMS (NO CABLE ON TOP OF ARMS).
- F. USE CABLE CLAMPS TO SECURE CABLE TO ARMS; PLACE 2" CARRIER CABLE ID TAGS ON BOTH SIDES OF ARMS.
- G. USE 90° CONNECTOR AT CABLE CONNECTION TO ANTENNAS.
- H. PLACE GPS ANTENNA ON ARM WITH SOUTHERN SKY EXPOSURE AT MINIMUM 6' FROM TRANSMIT ANTENNA, WHICH IS 24" AWAY FROM CENTER OF POLE.
- I. USE 1/2" CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- J. FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION



04DD922046E1469

STATE OF MISSOURI

ENGINEERING LICENSE: # EF-2791

ENGINEER:	PE#:	DISCIPLINE:	
KMV KEVIN M. VANMAELE	21561	CIVIL	C
REJ ROBERT E. JENSEN	28974	CIVIL	C
SDK SHELTON D. KEISLING	E-27323	ELECTRICAL	E
TMS TERRANCE M. SUPER	E-18521	ELECTRICAL	E

PLANS PREPARED FOR:

PLANS PREPARED BY:

7171 West 95th Street, Suite 600  
Overland Park, Kansas 66212  
Phone: 913-438-7700  
Fax: 913-438-7777

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**SUBMITTALS:**

DESCRIPTION	DATE	BY	REV
ISSUED FOR REVIEW	01/20/22	CZW	A
REISSUED FOR REVIEW	10/13/22	CJO	B
REISSUED FOR REVIEW	10/18/23	ABT	C
ISSUED FOR CONSTRUCTION	12/18/23	DSL	0
REISSUED PER CLIENT COMMENTS	03/14/24	ABT	1
REVISED PER POWER COORD	04/24/24	DSL	2

**SITE NAME:**  
STLC CHF FS 03SC

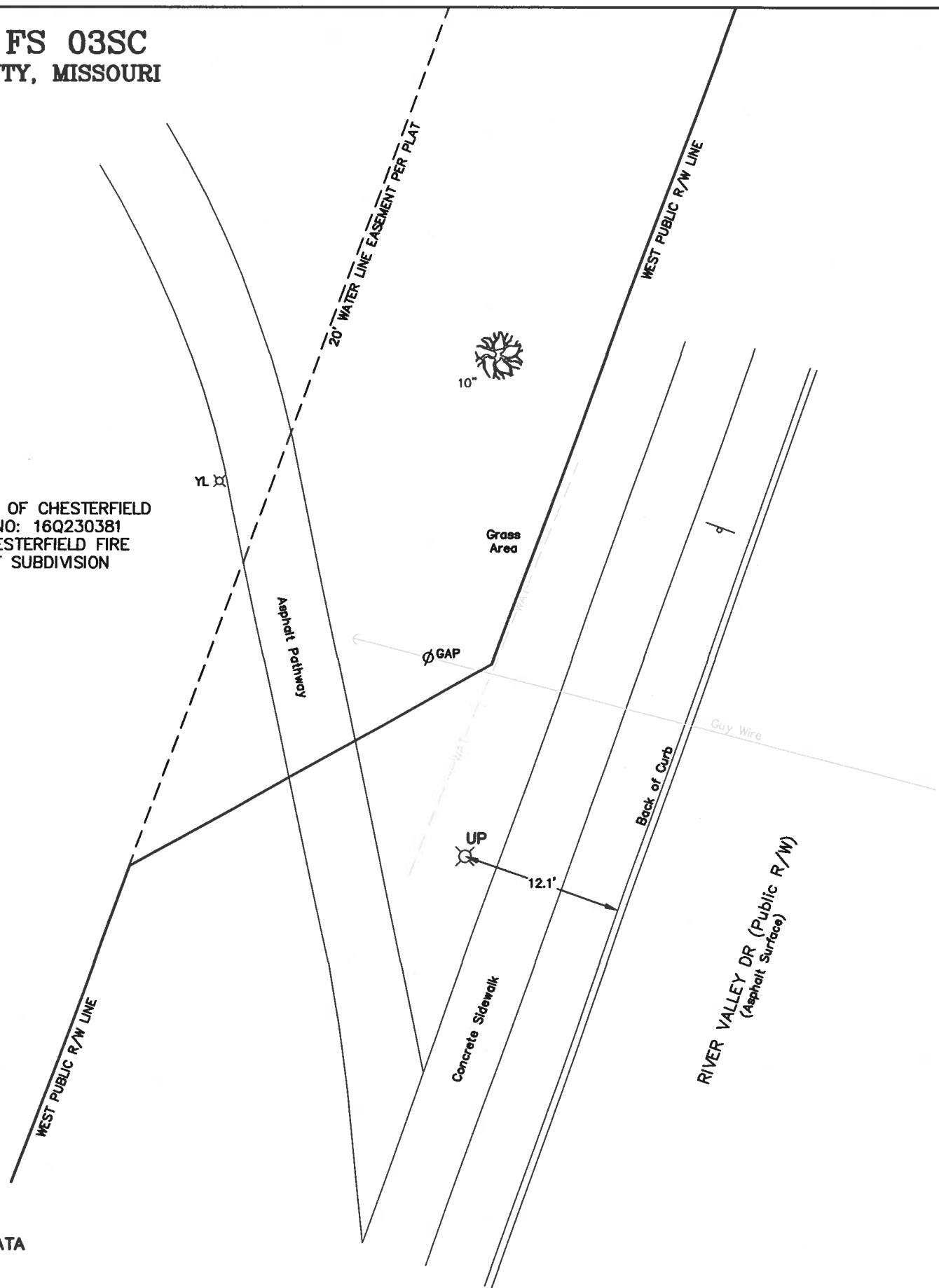
**MDG LOCATION #:**  
5000889198

**SITE ADDRESS:**  
13703 OLIVE BLVD  
CHESTERFIELD, MISSOURI  
63017

<b>SHEET DESCRIPTION:</b> GENERAL NOTES (2 OF 2)	<b>SHEET #:</b> GN-1.1
--	---------------------------

**STLC CHF FS 03SC**  
**ST. LOUIS COUNTY, MISSOURI**

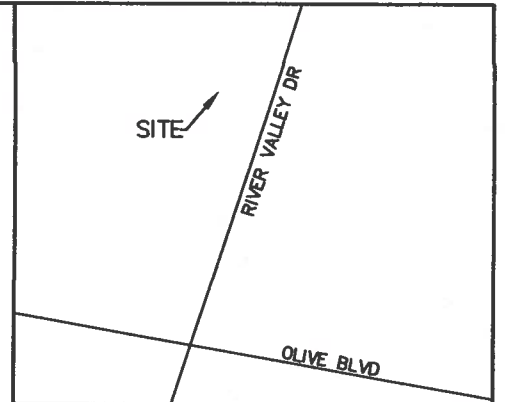
OWNER: CITY OF CHESTERFIELD  
 PARCEL NO: 16Q230381  
 Lot 2, CHESTERFIELD FIRE  
 DISTRICT SUBDIVISION



**PROPOSED UTILITY POLE DATA**  
 Center of Utility Pole  
 Lat 38°40'50.52" North  
 Long 90°30'19.56" West  
 Ground Elevation = 567.2ft

**LEGEND**

YARD LIGHT	⊗ YL
ANCHOR	⊙
SIGN	⊥
UTILITY POLE	⊗ UP
TREE (DIA.)	⊗
UNDERGROUND WATER LINE	- - - WAT
GUY ANCHOR POLE	⊙ GAP



**PROVIDED FOR:**



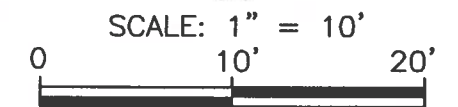

7171 W. 95th Street, Suite 600  
 Overland Park, Kansas 66212  
 Phone: 913-438-7700  
 Fax: 913-438-7777



**LOVELACE & ASSOCIATES**  
 Land Surveying - Land Planning  
 Telecommunications Surveys  
 929 SE 3rd Street Lee's Summit, Missouri 64063  
 Phone: (816) 347-9997 Fax: (816) 347-9979

LA PROJECT NO.: 21073-20  
 DRAWN BY: A.C.T. CHECKED BY: J.B.L.  
 DATE: 12-16-21 FIELDWORK: 12-14-21

- NOTES:**
1. No subsurface investigation was performed to locate underground utilities.
  2. Vertical Datum=NAVD88 using GEOID12B.
  3. This survey does not represent a boundary survey.
  4. Utilities shown hereon are limited to and are per observed evidence only.
  5. An utility locate was requested under ticket #213353675 with Missouri One Call, the markings of said locate are shown hereon.

CALL BEFORE YOU  
 DIG - DRILL - BLAST  
 1-800-344-7483  
 (TOLL FREE)  
 MISSOURI ONE CALL SYSTEM, INC.

10-21-22: REVISED POLE PLACEMENT

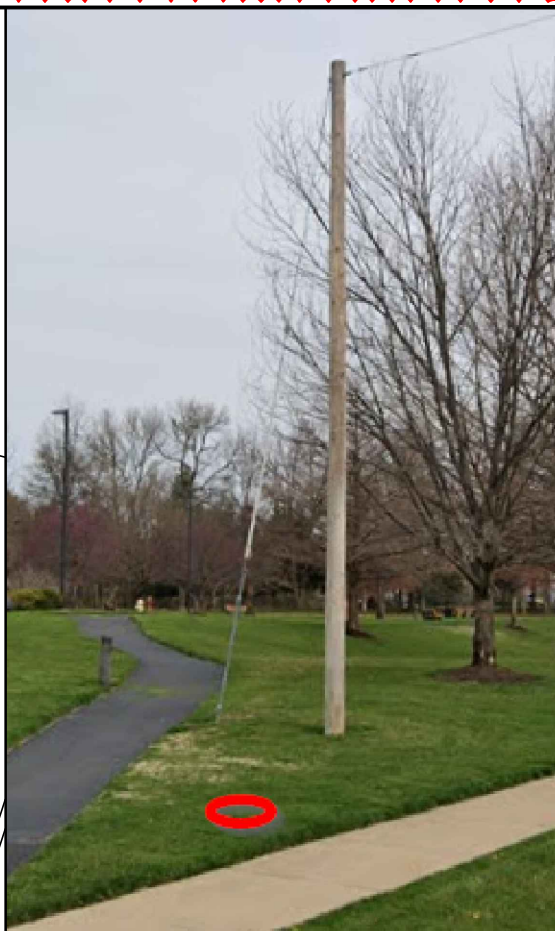
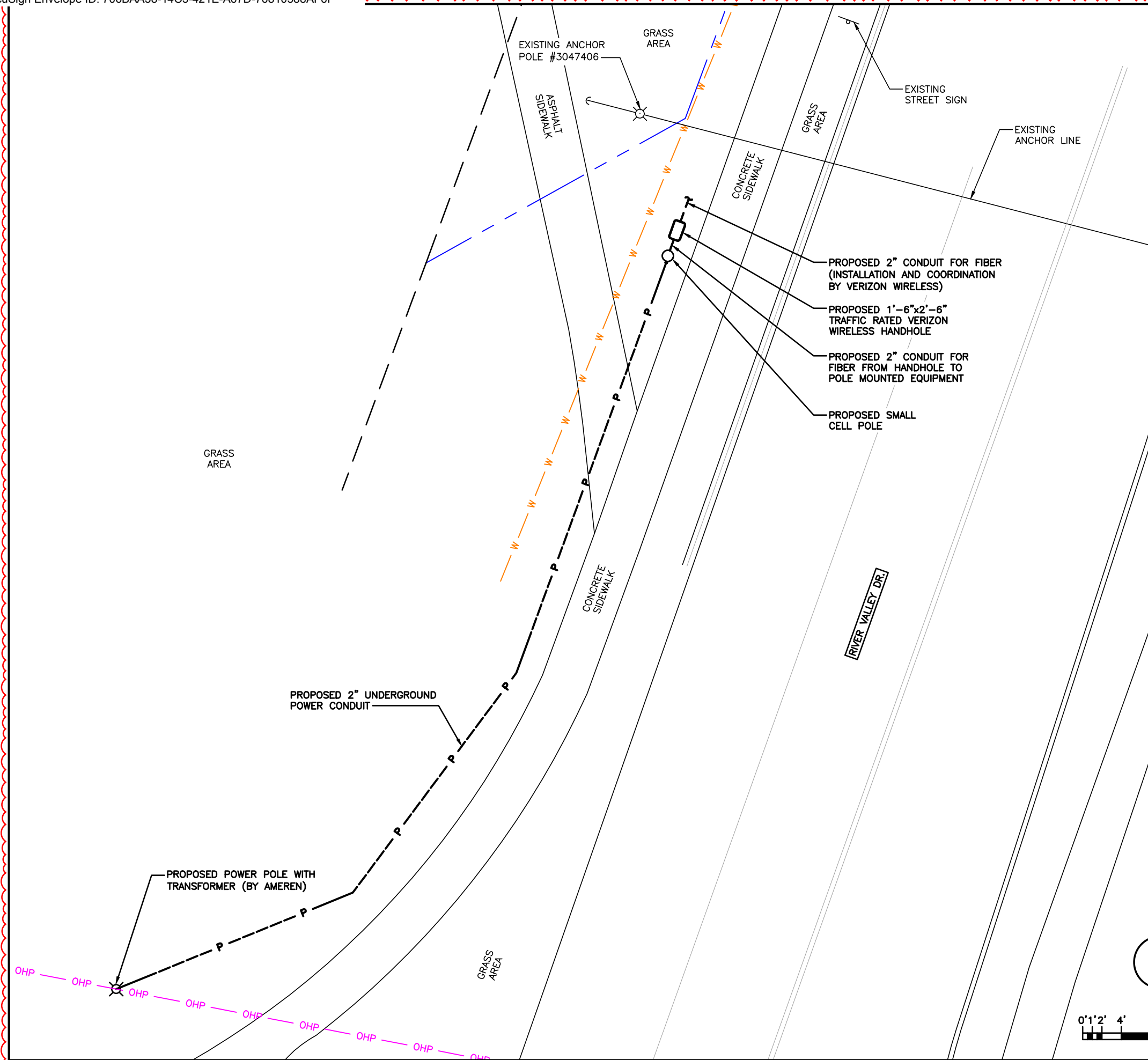


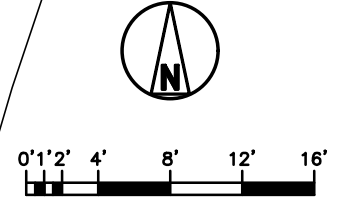
EXHIBIT PHOTO 1

**LEGEND**

EXISTING BUILDINGS	
EXISTING TREES	
EXISTING CURB	
PARKING/ROAD MARKINGS	
EXISTING ROW	

**UTILITY SYMBOL LEGEND:**

	TELCO CONDUIT
	UNDERGROUND TELCO CONDUIT
	POWER CONDUIT
	UNDERGROUND POWER CONDUIT



SITE PLAN 2

STAMP: 5/15/2024

DocuSigned by: *Kevin VanMaele*

04DD922048E1469

STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER:	PE#:	DISCIPLINE:
KMV KEVIN M. VANMAELE 21561	21561	CIVIL
REJ ROBERT E. JENSEN 28974	28974	CIVIL
SDK SHELTON D. KEISLING E-27323	E-27323	ELECTRICAL
TMS TERRANCE M. SUPER E-18521	E-18521	ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:

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Overland Park, Kansas 66212  
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ISSUED FOR CONSTRUCTION	12/18/23	DSL	0
REISSUED PER CLIENT COMMENTS	03/14/24	ABT	1
REVISED PER POWER COORD	04/24/24	DSL	2

SITE NAME:

STLC CHF FS 03SC

MDG LOCATION #:

5000889198

SITE ADDRESS:

13703 OLIVE BLVD  
CHESTERFIELD, MISSOURI  
63017

SHEET DESCRIPTION:

SITE PLAN

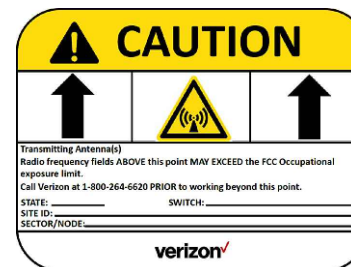
SHEET #:

A-1.0



**LIGHTING NOTE:**

THERE WILL BE NO LIGHT FIXTURES INCLUDED WITH THE EQUIPMENT ON PROPOSED POLE.



YELLOW RF WARNING SIGN

CUBIC FOOTAGE SUMMARY			
QTY	DESCRIPTION	DIMENSIONS (HxWxD)	CU. FEET
1	AMPHENOL 2C2UT360X06F00s0	24"x14.6"ø	2.961
1	AMPHENOL CWT-MKS-BASE	24"x17.19"ø	4.104
1	ERICSSON RRH BRKT	42.6"x13.5"x18"	5.599
1	ERICSSON RADIO 8843	18"x13.2"x11.3"	1.554
1	ERICSSON RADIO 4449	18"x13.2"x9.4"	1.293
2	ERICSSON POWER ENCLOSURE	13.9"x4"x11.8"	(2)0.38
1	TWIN QUAD DIPLEXER	8.3"x3"x4.2"	0.061
1	AC DISCONNECT	21.65"x10.38"x4.38"	0.569

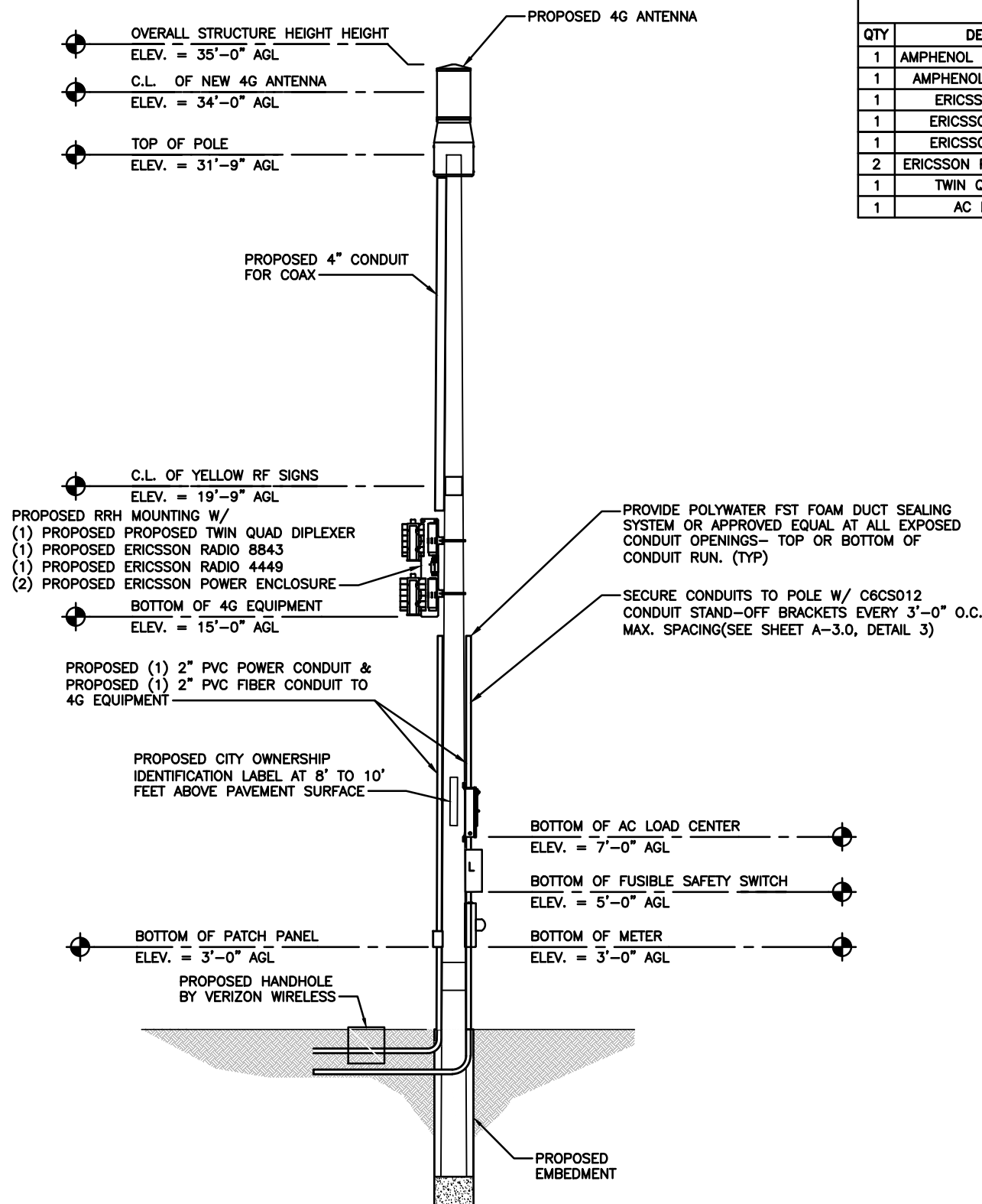
STRUCTURE INFORMATION IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. STRUCTURAL INTEGRITY OF SUPPORTING STRUCTURE, ANTENNA MOUNTS, AND FOUNDATION SHALL BE VERIFIED AS ACCEPTABLE BY ENGINEER CERTIFIED STRUCTURAL ANALYSIS, UTILIZING THE LOADING REPRESENTED WITHIN THESE DRAWINGS PRIOR TO THE EXECUTION OF EQUIPMENT CHANGES CONTAINED IN THESE DRAWINGS. CONTRACTOR SHALL OBTAIN ALL STRUCTURAL REPORTS AND FOLLOW ALL RECOMMENDATIONS.

**EQUIPMENT NOTICE:**

ALL EQUIPMENT MOUNTED ON PROPOSED POWER POLE SHALL MATCH EXISTING POLE FINISH.

**NOTE:**

PROVIDE 2" CONDUIT FROM VERIZON WIRELESS HANDHOLE TO POLE



PROPOSED POLE & EQUIPMENT ELEVATION

STAMP: 5/15/2024

DocuSigned by: Kevin VanMaele

04DD022049EA460

ENGINEERING LICENSE: STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER:	PE#:	DISCIPLINE:
KMV KEVIN M. VANMAELE	21561	CIVIL
REJ ROBERT E. JENSEN	28974	CIVIL

SDK SHELTON D. KEISLING E-27323 ELECTRICAL  
TMS TERRANCE M. SUPER E-18521 ELECTRICAL

PLANS PREPARED FOR:



PLANS PREPARED BY:

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ISSUED FOR CONSTRUCTION	12/18/23	DSL	0
REISSUED PER CLIENT COMMENTS	03/14/24	ABT	1
REVISED PER POWER COORD	04/24/24	DSL	2

SITE NAME: STLC CHF FS 03SC

MDG LOCATION #: 5000889198

SITE ADDRESS: 13703 OLIVE BLVD  
CHESTERFIELD, MISSOURI  
63017

SHEET DESCRIPTION:	SHEET #:
POLE ELEVATION	A-2.0

### ANTENNA SUMMARY

Added														
700	850	1900	AWS	AWS3	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	5G	LTE	LTE	LTE	AMPHENOL	2C2UT360X06F0Y50-T00-750-(+45)-R1	37	38	0(0003) 0(003)	false	false	PHYSICAL	1	

Removed														
700	850	1900	AWS	AWS3	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
No data available.														

Retained														
700	850	1900	AWS	AWS3	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
No data available.														

Added: 1    Removed: 0    Retained: 0

### EQUIPMENT SUMMARY

Added													
Equipment Type	Location	700	850	1900	AWS	AWS3	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Coaxial Cables	Tower						1/2" coax	1/2" coax	40	1/2	PHYSICAL	8	
RRU	Tower	LTE	LTE	5G			Ericsson	4449			PHYSICAL	1	KRC161749/1
RRU	Tower			LTE	LTE	LTE	Ericsson	8843			PHYSICAL	1	KRC161707/2
Diplexer	Tower						KABLUS	DBC-0129FV1-1			PHYSICAL	1	

Removed													
Equipment Type	Location	700	850	1900	AWS	AWS3	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
No data available.													

Retained													
Equipment Type	Location	700	850	1900	AWS	AWS3	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
No data available.													

### SERVICE INFO

<b>AW53 LTE</b>	Sector Azimuth Cell / ENode B ID Antenna Model Antenna Make Antenna Centerline(F) Mechanical Down-Tilt(Deg) Electrical Down-Tilt Tip Height Regulatory Power DLEARNFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	03 0 2C2UT360X06F0Y50-T0 0-2100-(+45)-R1 AMPHENOL 37 0 0 39.43 66911 5 108.16 Ericsson 8843 4.4 11784582 ATOLL_API	CAND
<b>700 MHz LTE</b>	Sector Azimuth Cell / ENode B ID Antenna Model Antenna Make Antenna Centerline(F) Mechanical Down-Tilt(Deg) Electrical Down-Tilt Tip Height Regulatory Power DLEARNFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	03 0 2C2UT360X06F0Y50-T0 0-750-(+45)-R1 AMPHENOL 37 0 0 38 2460 5230 10 30.34 Ericsson 4449 4.4 11784571 ATOLL_API	CAND
<b>850 MHz LTE</b>	Sector Azimuth Cell / ENode B ID Antenna Model Antenna Make Antenna Centerline(F) Mechanical Down-Tilt(Deg) Electrical Down-Tilt Tip Height Regulatory Power DLEARNFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	03 0 2C2UT360X06F0Y50-T0 0-750-(+45)-R1 AMPHENOL 37 0 0 38 2460 30.34 Ericsson 4449 4.4 11784579 ATOLL_API	CAND
<b>850 MHz 5GNR</b>	Sector Azimuth Cell / ENode B ID Antenna Model Antenna Make Antenna Centerline(F) Mechanical Down-Tilt(Deg) Electrical Down-Tilt Tip Height Regulatory Power DLEARNFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	0003 0 2C2UT360X06F0Y50-T0 0-750-(+45)-R1 AMPHENOL 37 0 0 38 2460 30.34 Ericsson 4449 4.4 11784579 ATOLL_API	CAND
<b>1900 MHz LTE</b>	Sector Azimuth Cell / ENode B ID Antenna Model Antenna Make Antenna Centerline(F) Mechanical Down-Tilt(Deg) Electrical Down-Tilt Tip Height Regulatory Power DLEARNFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	03 0 2C2UT360X06F0Y50-T0 0-2100-(+45)-R1 AMPHENOL 37 0 0 38 1025 5 108.16 Ericsson 8843 4.4 11780383 ATOLL_API	CAND
<b>2100 MHz LTE</b>	Sector Azimuth Cell / ENode B ID Antenna Model Antenna Make Antenna Centerline(F) Mechanical Down-Tilt(Deg) Electrical Down-Tilt Tip Height Regulatory Power DLEARNFCN Channel Bandwidth(MHz) Total ERP (W) TMA Make TMA Model RRU Make RRU Model Number of Tx, Rx Lines Position Transmitter Id Source	03 0 2C2UT360X06F0Y50-T0 0-2100-(+45)-R1 AMPHENOL 37 0 0 38 5.86 2150 20 108.16 Ericsson 8843 4.4 11784574 ATOLL_API	CAND

STAMP: 5/15/2024

DocuSigned by:  
Kevin Van Maele

04DD922046E1460  
ENGINEERING LICENSE:  
STATE OF MISSOURI  
STATE CERTIFICATE OF AUTHORIZATION # EF-2791  
ENGINEER: KEVIN M. VANMAELE PE# 21561 DISCIPLINE: CIVIL  
REJ ROBERT E. JENSEN 28974 CIVIL  
SDK SHELTON D. KEISLING E-27323 ELECTRICAL  
TMS TERRANCE M. SUPER E-18521 ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

7171 West 95th Street, Suite 600  
Overland Park, Kansas 66212  
Phone: 913-438-7700  
Fax: 913-438-7777

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**SITE NAME:**  
STLC CHF FS 03SC

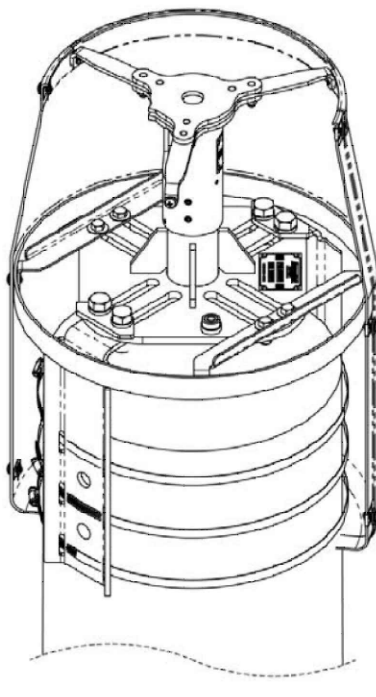
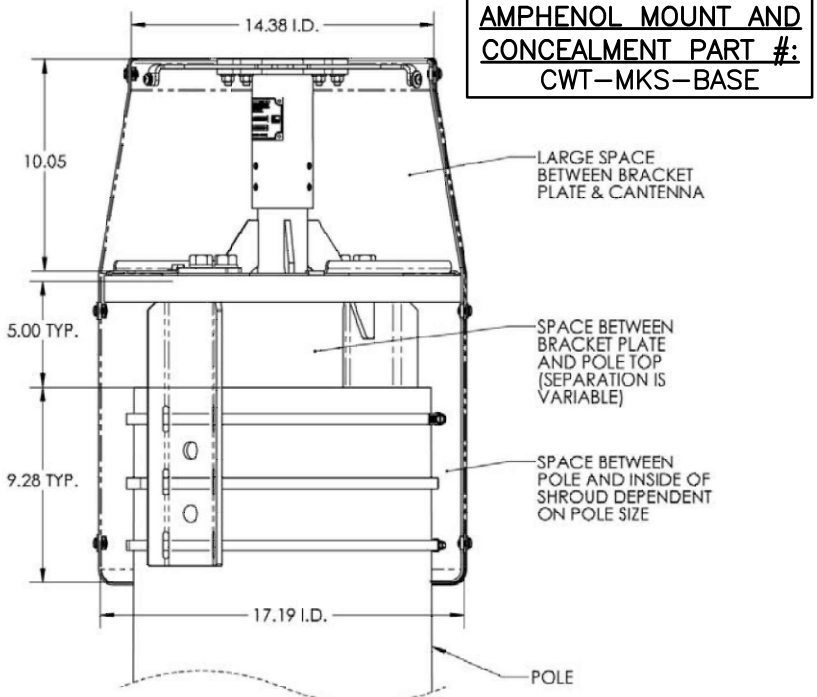
**MDG LOCATION #:**  
5000889198

**SITE ADDRESS:**  
13703 OLIVE BLVD  
CHESTERFIELD, MISSOURI  
63017

<b>SHEET DESCRIPTION:</b> EQUIPMENT DETAILS (1 OF 2)	<b>SHEET #:</b> A-3.0
--	--------------------------

GC TO PROVIDE ANTENNA BRACKETS AND MOUNTING HARDWARE

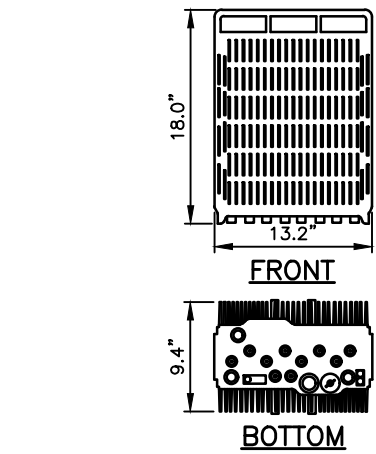
ANTENNA MOUNT INFORMATION IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FINAL MOUNT & ATTACHMENT CONFIGURATION TO BE APPROVED BY ENGINEER.



OMNI ANTENNA MOUNTING KIT

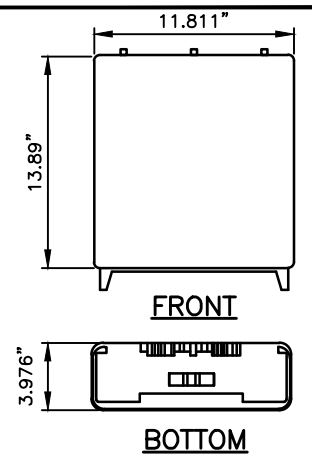
**SPECIFICATIONS:**  
 VENDOR: AMPHENOL  
 MODEL#: 2C2UT360X06FxyS0  
 DIMENSIONS (LxD): 24" x Ø14.6"  
 WEIGHT: 23 LBS

4G OMNI ANTENNA DETAIL



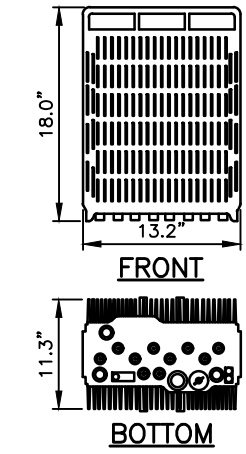
**SPECIFICATIONS:**  
 VENDOR: ERICSSON  
 MODEL#: 4449  
 DIMENSIONS (HxWxD): 18.0" x 13.2" x 9.4"  
 WEIGHT: 70 LBS

ERICSSON 4449 RRU DETAIL



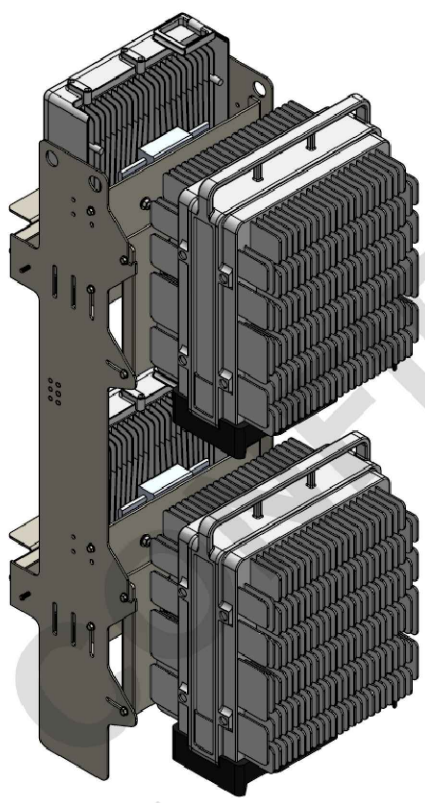
**SPECIFICATIONS:**  
 VENDOR: ERICSSON  
 MODEL#: 6302  
 DIMENSIONS (HxWxD): 13.89" x 11.81" x 3.976"  
 WEIGHT: 19.84 LBS

ERICSSON 6302 RRU DETAIL



**SPECIFICATIONS:**  
 VENDOR: ERICSSON  
 MODEL#: 8843  
 DIMENSIONS (HxWxD): 18.0" x 13.2" x 11.3"  
 WEIGHT: 75 LBS

ERICSSON 8843 RRU DETAIL



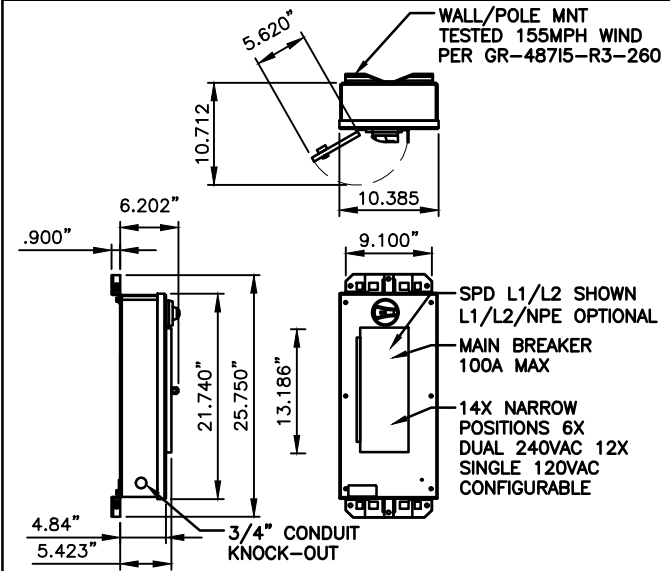
**ERICSSON-RRH-BRKT**  
 Pole/Wall Mount

- Product Features:**
- For use with Ericsson 8843 or 4449 and up to (2) of Ericsson Power 6302 Power Supplies
  - Compact Size
  - Diverse mounting applications; includes concrete lamp post, steel pole, wood pole applications, and wall mountable.
  - Optional grounding locations
  - Power supply mounting options with ability to adjust bracket for slight tilt
  - Concealment Cover attachment (*cover not included in this kit*)
  - Kit Includes: (2) Pole Brackets, (2) Power Supply Bracket, (2) Radio Brackets, (2) 5/8 x 16" Bolts, (4) V-Band Clamp, Grounding Jumper, and all associated hardware.
  - Kit Allows for: Radiohead and Power Supply

**Product Specifications:**  
 Model No: ERICSSON-RRH-BRKT

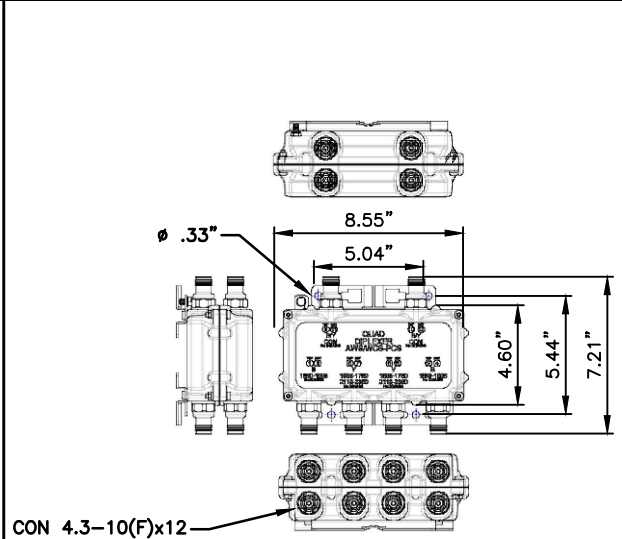
Dimension (W x H x D)	13.5 x 42.6 x 12.1 (inches)
Weight	36 lbs
Safety	500 lbs Vertical Load Rating
Environment	Galvanized, Weather Resistant
Cooling	Natural Cooling
Mount	Lamp post, pole or wall mountable
Construction	Aluminum/ Steel
Finish	Outdoor Powder Coating/ Natural Color

ERICSSON-RRH-BRKT DETAIL



PTS91536 AC DISCONNECT SWITCH

AC DISCONNECT SWITCH DETAIL



DBC0129F1V1-1 QUAD DIPLEXER

STAMP: 5/15/2024

KEVIN VANMAELE  
 NUMBER PE-021561  
 PROFESSIONAL ENGINEER

DocuSign by Kevi Van Maele

ENGINEERING LICENSE: 04DD022046E1460  
 STATE OF MISSOURI  
 STATE CERTIFICATE OF AUTHORIZATION # EF-2791  
 ENGINEER: KMV KEVIN M. VANMAELE 21561 CIVIL CC  
 REJ ROBERT E. JENSEN 28974 CIVIL  
 SDK SHELTON D. KEISLING E-27323 ELECTRICAL  
 TMS TERRANCE M. SUPER E-18521 ELECTRICAL

PLANS PREPARED FOR:

PLANS PREPARED BY:

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 Overland Park, Kansas 66212  
 Phone: 913-438-7700  
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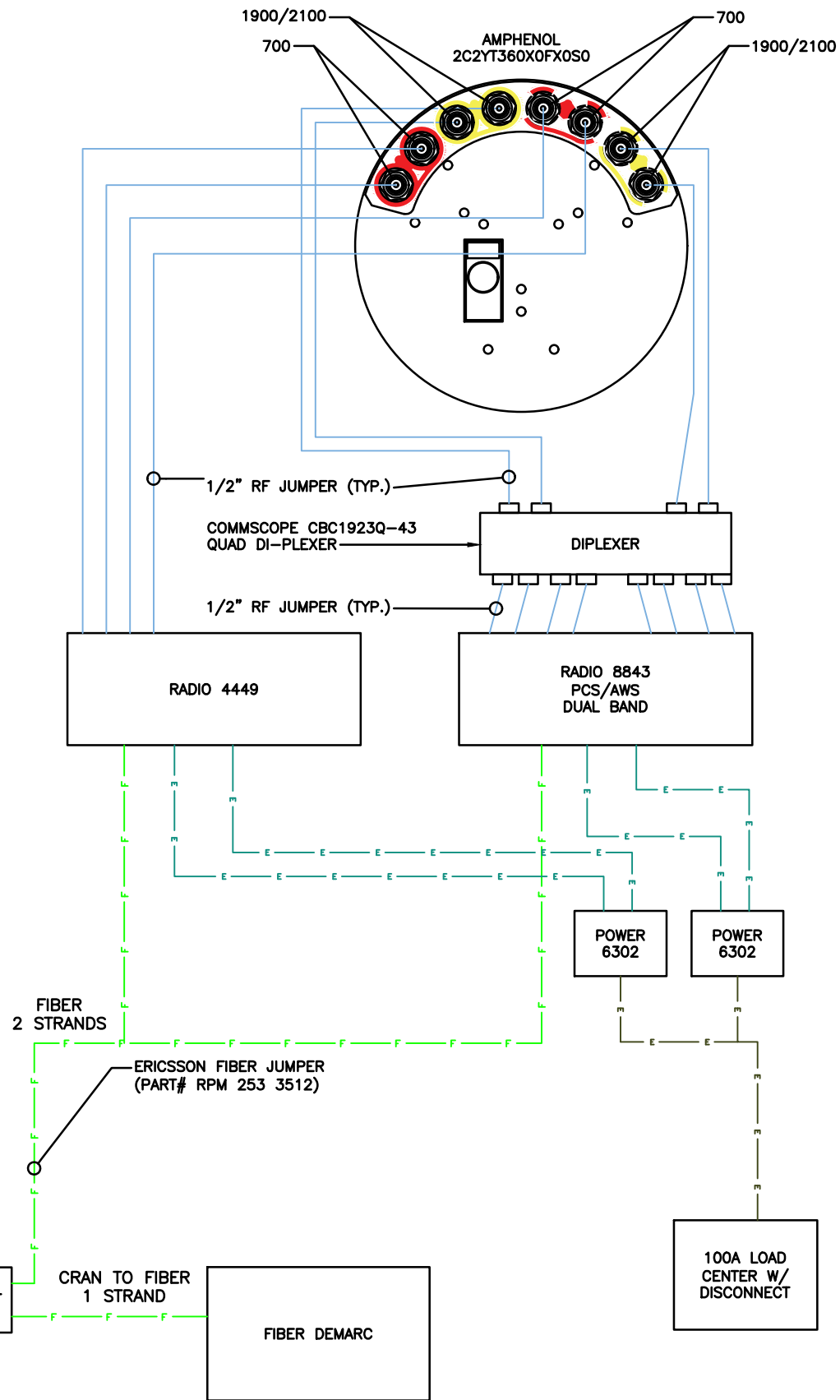
SITE NAME: STLC CHF FS 03SC

MDG LOCATION #: 5000889198

SITE ADDRESS: 13703 OLIVE BLVD  
 CHESTERFIELD, MISSOURI  
 63017

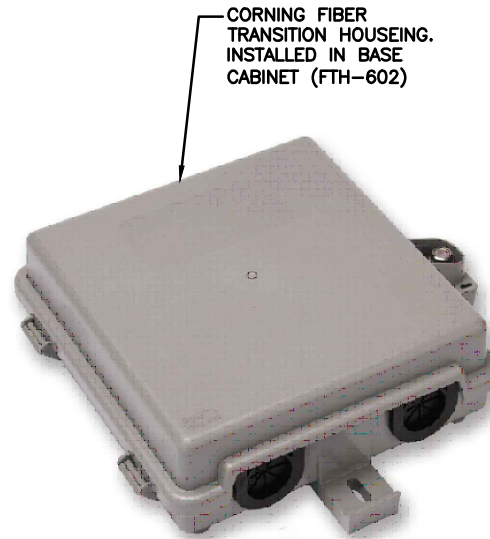
SHEET DESCRIPTION: EQUIPMENT DETAILS (2 OF 2)

SHEET #: A-3.1



CABLE DIAGRAM

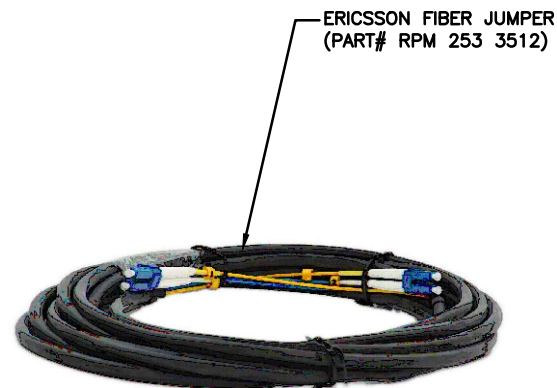
1



CORNING FIBER PATCH PANNEL

2

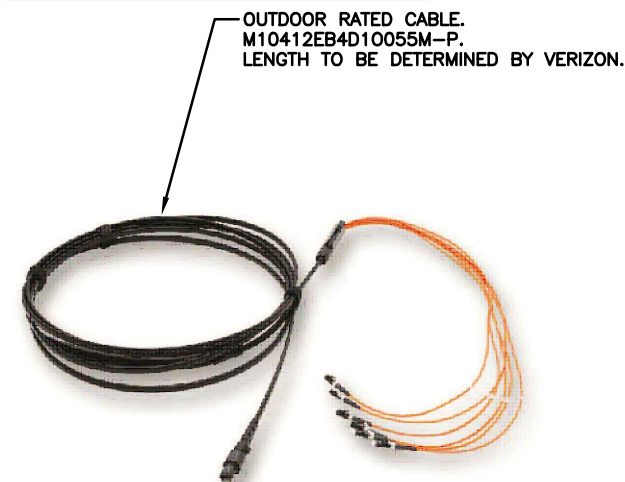
**NOTE:**  
LESSEE EQUIPMENT ENGINEER TO SPECIFY & ORDER FIBER JUMPERS



ERICSSON FIBER JUMPER

5

**NOTE:**  
LESSEE EQUIPMENT ENGINEER TO SPECIFY & ORDER FIBER DROP CABLE



CORNING VERTICAL CABLE ASSEMBLY, NON-STUBBED

4

STAMP: 5/15/2024

DocuSigned by: Kevin VanMaele

ENGINEERING LICENSE: 04DD822048E1469

STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER:	PE#:	DISCIPLINE:	
KMV KEVIN M. VANMAELE	21561	CIVIL	CC
REJ ROBERT E. JENSEN	28974	CIVIL	
SDK SHELTON D. KEISLING	E-27323	ELECTRICAL	ME
TMS TERRANCE M. SUPER	E-18521	ELECTRICAL	

PLANS PREPARED FOR:



PLANS PREPARED BY:

7171 West 95th Street, Suite 600  
Overland Park, Kansas 66212  
Phone: 913-438-7700  
Fax: 913-438-7777

**DRAWING NOTICE:**  
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SUBMITTALS:

DESCRIPTION	DATE	BY	REV
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REISSUED FOR REVIEW	10/13/22	CJO	B
REISSUED FOR REVIEW	10/18/23	ABT	C
ISSUED FOR CONSTRUCTION	12/18/23	DSL	0
REISSUED PER CLIENT COMMENTS	03/14/24	ABT	1
REVISED PER POWER COORD	04/24/24	DSL	2

SITE NAME:

STLC CHF FS 03SC

MDG LOCATION #:

5000889198

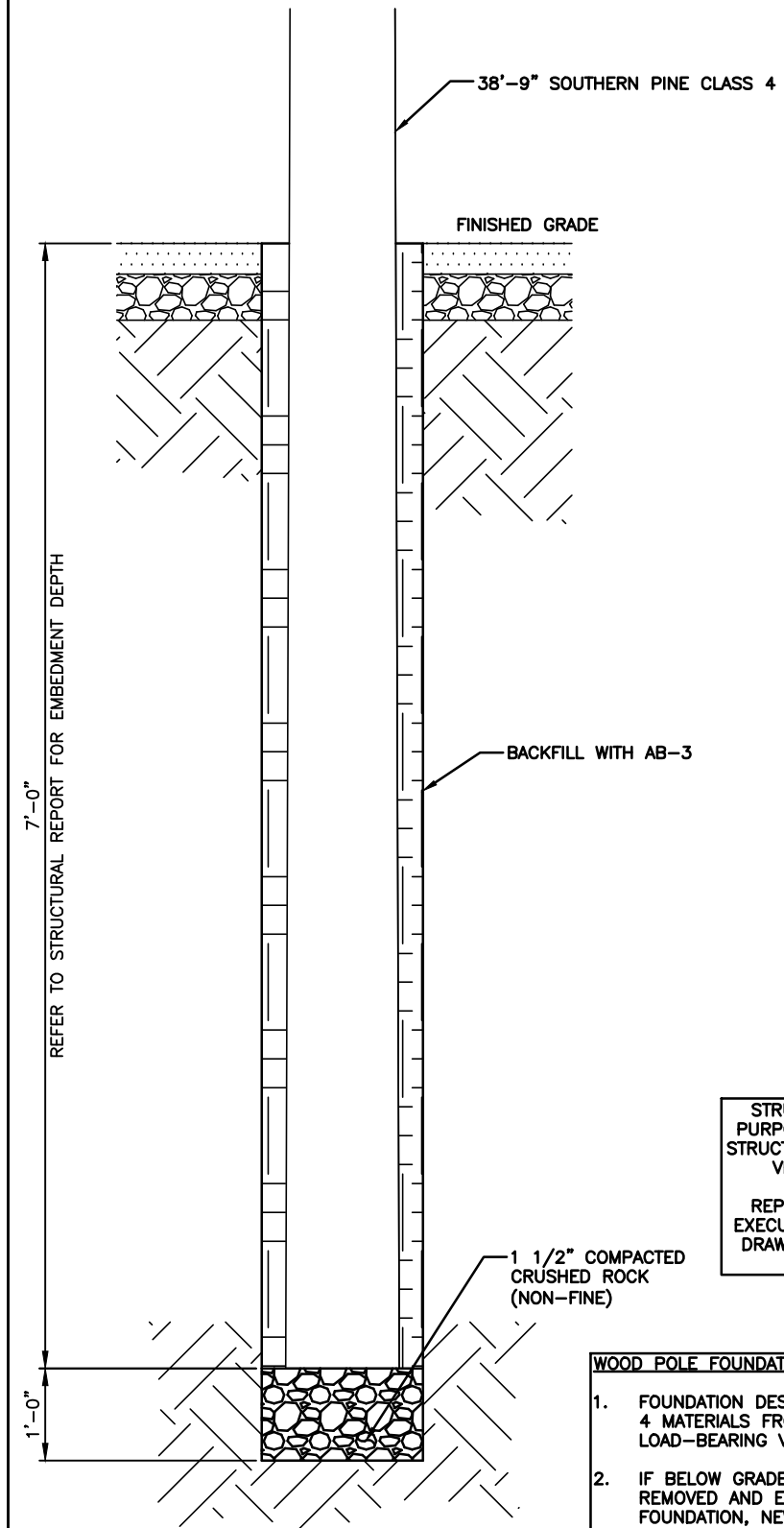
SITE ADDRESS:

13703 OLIVE BLVD  
CHESTERFIELD, MISSOURI  
63017

SHEET DESCRIPTION: SHEET #:

CABLE DIAGRAM & DETAILS

A-4.0



**COMPACTION NOTES:**

1. AB-3 AGGREGATE SHALL HAVE A MOISTURE CONTENT AT A MINIMUM OF 7%
2. CONTRACTOR SHALL ACHIEVE A 95% STANDARD PROCTOR COMPACTION RATING
3. COMPACTED AT 6" LIFTS USING A COMPACTION RAMMER AS REQUIRED

STRUCTURE INFORMATION IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. STRUCTURAL INTEGRITY OF SUPPORTING STRUCTURE, ANTENNA MOUNTS, AND FOUNDATION SHALL BE VERIFIED AS ACCEPTABLE BY ENGINEER CERTIFIED STRUCTURAL ANALYSIS, UTILIZING THE LOADING REPRESENTED WITHIN THESE DRAWINGS PRIOR TO THE EXECUTION OF EQUIPMENT CHANGES CONTAINED IN THESE DRAWINGS. CONTRACTOR SHALL OBTAIN ALL STRUCTURAL REPORTS AND FOLLOW ALL RECOMMENDATIONS.

**WOOD POLE FOUNDATION NOTES:**

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL VALUES FOR CLASS 4 MATERIALS FROM IBC 2012 TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES.
2. IF BELOW GRADE PORTION OF DECOMMISSIONED WOOD POLE IS REMOVED AND EXISTING HOLE IS NOT UTILIZED FOR NEW POLE FOUNDATION, NEW POLE FOUNDATION SHALL BE INSTALLED A MINIMUM DISTANCE OF 6' EDGE TO EDGE FROM DECOMMISSIONED POLE FOUNDATION HOLE. IF BELOW GRADE PORTION OF DECOMMISSIONED POLE IS NOT REMOVED, NEW POLE FOUNDATION SHALL BE INSTALLED A MINIMUM DISTANCE OF 3' EDGE TO EDGE FROM DECOMMISSIONED POLE FOUNDATION.
3. WOOD POLE/CONCRETE FOUNDATION SHALL BE INSTALLED AGAINST UNDISTURBED SOIL.

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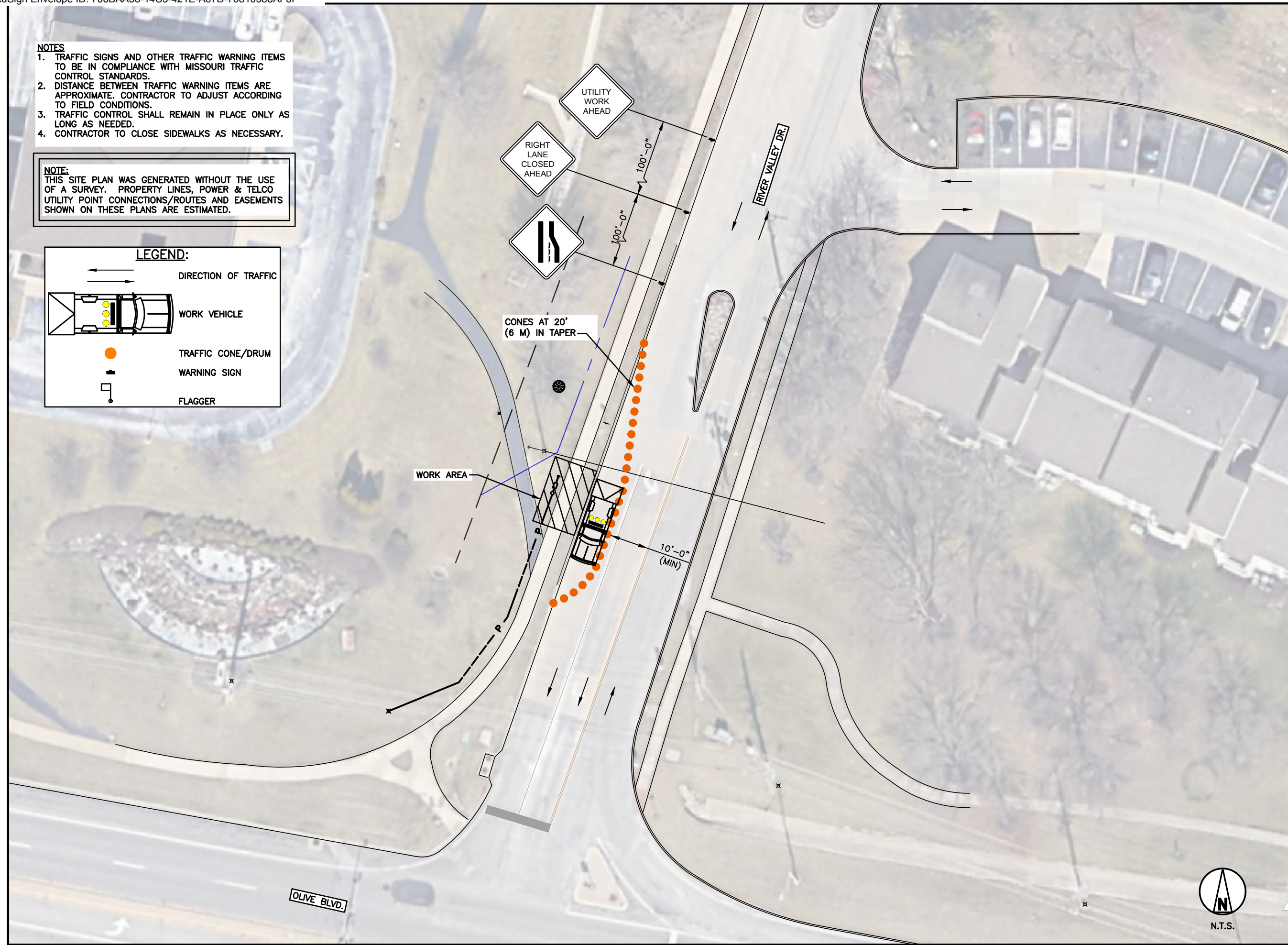
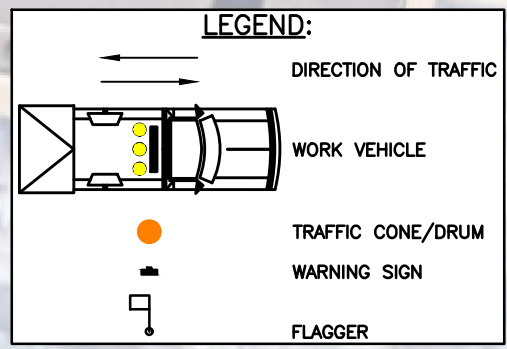
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63017

SHEET DESCRIPTION:	SHEET #:
FOUNDATION DETAILS	A-5.0

- NOTES**
1. TRAFFIC SIGNS AND OTHER TRAFFIC WARNING ITEMS TO BE IN COMPLIANCE WITH MISSOURI TRAFFIC CONTROL STANDARDS.
  2. DISTANCE BETWEEN TRAFFIC WARNING ITEMS ARE APPROXIMATE. CONTRACTOR TO ADJUST ACCORDING TO FIELD CONDITIONS.
  3. TRAFFIC CONTROL SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED.
  4. CONTRACTOR TO CLOSE SIDEWALKS AS NECESSARY.

**NOTE:**  
THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, POWER & TELCO UTILITY POINT CONNECTIONS/ROUTES AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED.



STAMP: 5/15/2024

DocuSigned by:  
*Kevin VanMaele*

ENGINEERING LICENSE:

STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

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SITE NAME:  
**STLC CHF FS 03SC**

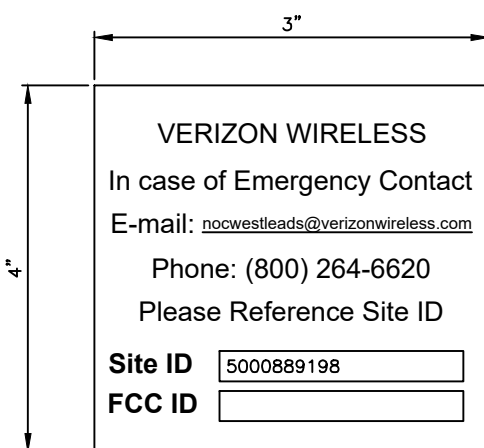
MDG LOCATION #:  
**5000889198**

SITE ADDRESS:  
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CHESTERFIELD, MISSOURI  
63017**

SHEET DESCRIPTION:	SHEET #:
<b>TRAFFIC CONTROL PLAN</b>	<b>TCP</b>

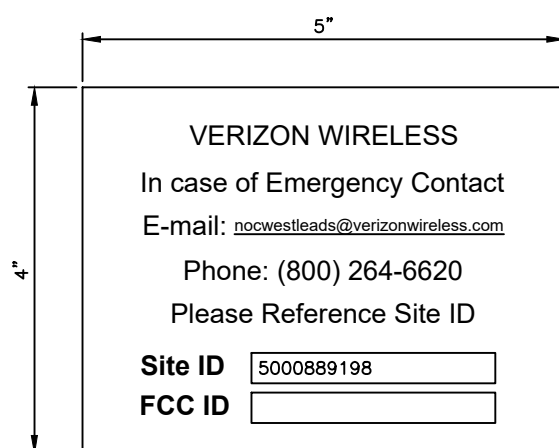


**EMERGENCY LABEL ON POLE**



**NOTE:**  
TO BE INSTALLED AT BASE OF LIGHT POLE ON HANDHOLE COVER.

**EMERGENCY LABEL ON METER**



**NOTE:**  
TO BE INSTALLED ON METER (INSTALL BELOW MAIN CIRCUIT BREAKER ACCESS PANEL)

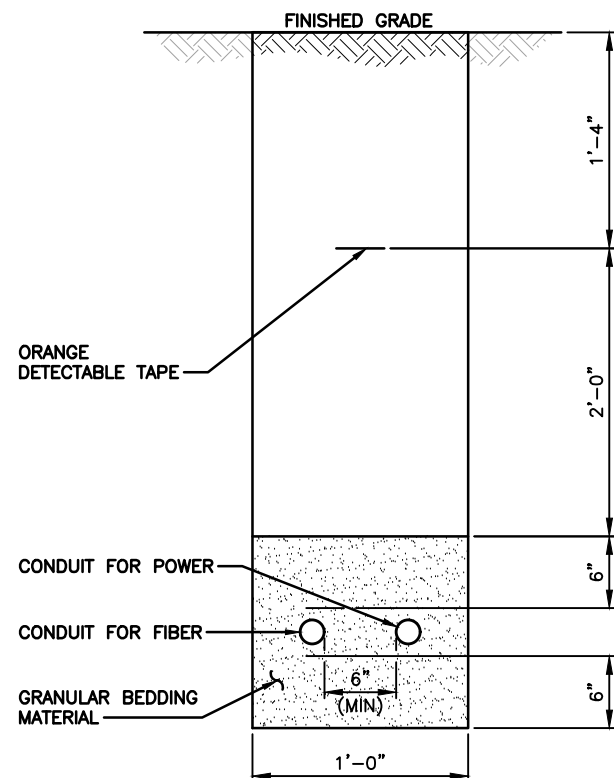
**OWNER/OPERATOR NOTE:**

EMERGENCY CONTACT LABEL AFFIXED AS NOTED ABOVE BY USING TZ6S241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

**POLE OWNER SIGN DETAIL**

**NOTES:**

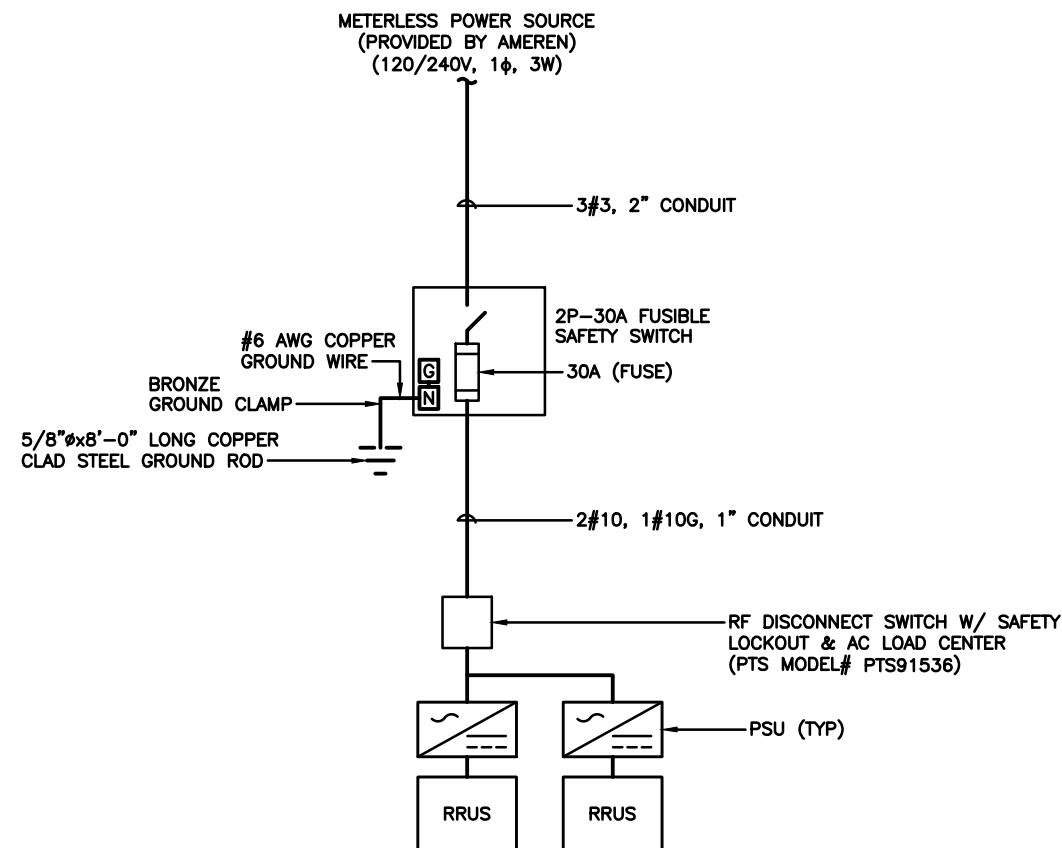
- SEE SHEET A-1.0 FOR SIZES, LENGTHS & QUANTITY OF UTILITIES.
- FIBER AND POWER CONDUITS MAY BE RUN IN SEPARATE TRENCHES. CONDUITS SHALL MAINTAIN 6" MINIMUM SEPARATION.



**CONDUIT TRENCH DETAIL**

**NOTE:**

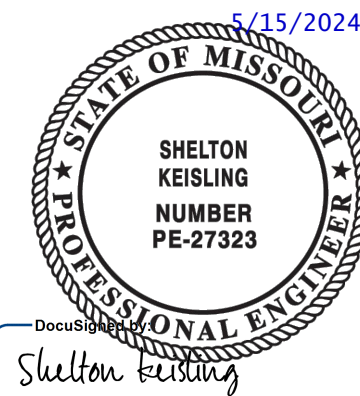
POLE IS OWNED BY AMEREN. POWER TO BE PROVIDED BY AMEREN. NO METER NEEDED.



**CIRCUIT ONE-LINE DIAGRAM**

DETAIL NOT USED

STAMP:



DocuSign Envelope ID: EF04D9A5E898B487

STATE OF MISSOURI  
ENGINEERING LICENSE: E-27323

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

ENGINEER:	PE#:	DISCIPLINE:	
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REJ ROBERT E. JENSEN	28974	CIVIL	C
SDK SHELTON D. KEISLING	E-27323	ELECTRICAL	E
TMS TERRANCE M. SUPER	E-18521	ELECTRICAL	E

PLANS PREPARED FOR:



PLANS PREPARED BY:



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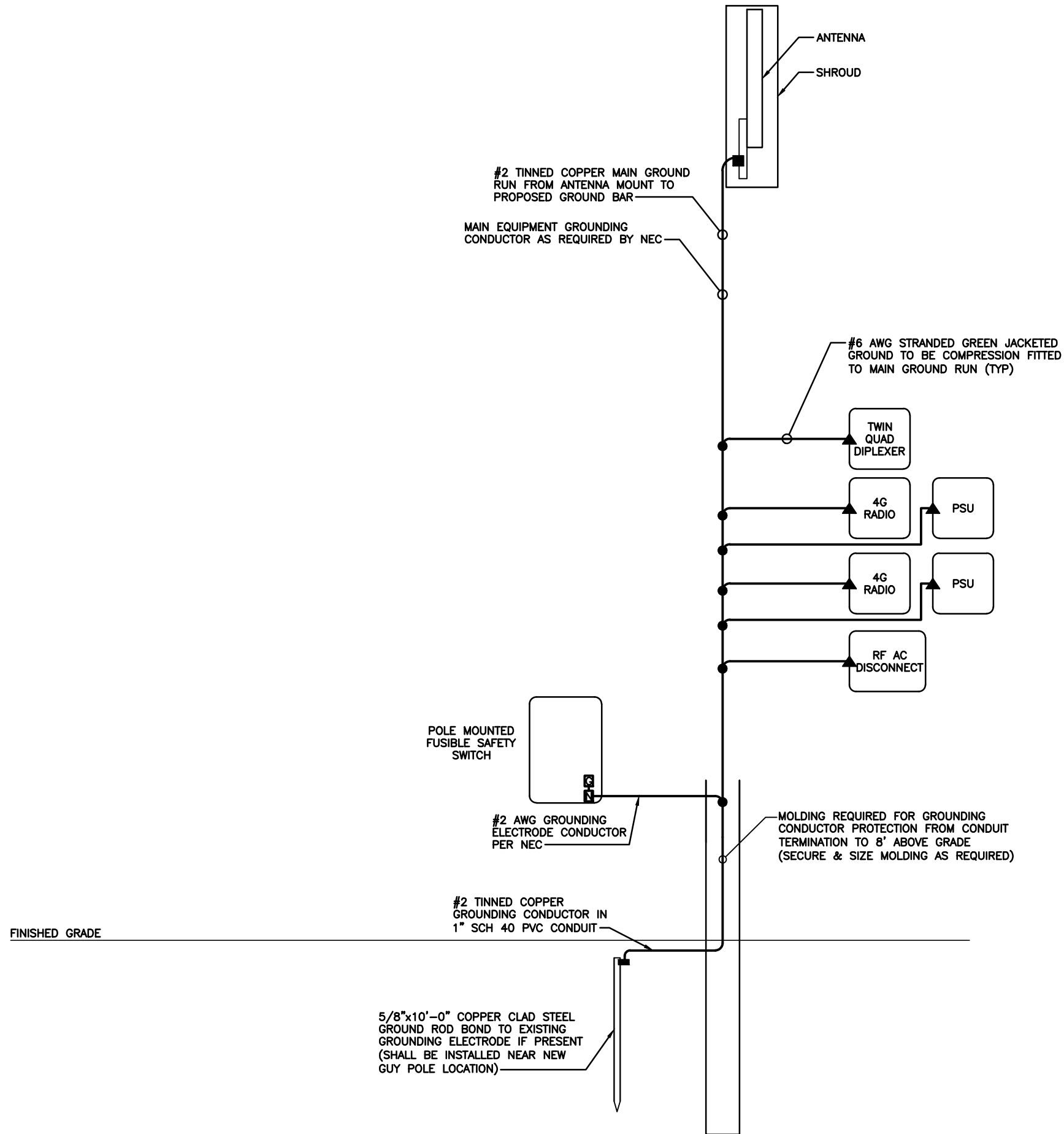
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MDG LOCATION #:  
**5000889198**

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63017**

SHEET DESCRIPTION:  
**ELECTRICAL DETAILS**

SHEET #:  
**E-1.0**



**LEGEND:**

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- COMPRESSION CONNECTION

STAMP: 5/15/2024

DocuSign By: *Shelton Keisling*

ENGINEERING LICENSE: STATE OF MISSOURI

STATE CERTIFICATE OF AUTHORIZATION # EF-2791

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63017

SHEET DESCRIPTION:

GROUNDING RISER DIAGRAM

SHEET #:

G-1.0

**NOTE:**

GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.

GROUNDING RISER DIAGRAM