

# verizon

## KCYC LEE SUMMIT DOUGLAS - A

LEES SUMMIT - STREET LIGHT  
ID TAG: 5G09 2-2  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

PROJECT ID# 16054113  
VERIZON PSLC# 602128

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
ISSUE STATUS  
REV. DATE DESCRIPTION BY

A	04/27/2020	90% CD - FOR REVIEW	NM
B	06/22/2020	90% CD - REVISED	NM
C	07/22/2020	90% CD - REVISED	NM
D	08/18/2020	100% CD	NM
E	09/17/2020	100% CD - REVISED	TRS
F	09/30/2020	100% CD - REVISED	TRS

**AJM** Consulting

1931 Newport Blvd. Suite C  
Costa Mesa, CA 92627-2250  
Phone: 949-973-2380



3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

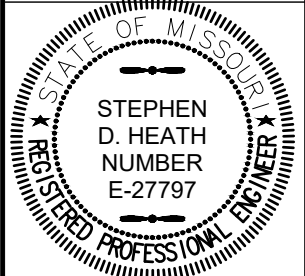
#### PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF  
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PROHIBITED

**verizon**  
10740 NALL AVENUE  
OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

TITLE SHEET

T-1

#### PROJECT SUMMARY

**APPLICANT/LESSEE**  
**verizon**  
10740 NALL AVENUE  
OVERLAND PARK, KS 66211

**PROPERTY INFORMATION:**  
LAT (Decimal): 38.937919° (NAD 83)  
LONG (Decimal): -94.378458° (NAD 83)  
LAT (Deg.Min.Sec): 38° 56' 16.5084" N  
LONG (Deg.Min.Sec): 94° 22' 42.4488" W  
ELEV: 1036' (AMSL)  
POLE OWNER: LEES SUMMIT  
JURISDICTION: LEES SUMMIT

**APPLICANT'S REPRESENTATIVE:**  
NAME: KPGco  
ADDRESS: 3305 HWY 60 W, FARIBAULT  
MN 55021  
CONTACT: NIKKI GAST  
PHONE: 816.266.2378  
EMAIL: nikki.gast@kgpco.com

**UTILITY COMPANY:**  
EVERGY  
4400 E FRONT ST  
KANSAS CITY, MO 64120  
PHONE: 816-732-4160

**CONSTRUCTION INFORMATION:**  
AREA OF CONSTRUCTION: N/A  
JURISDICTION: LEES SUMMIT  
COUNTY: JACKSON COUNTY  
ZONING: PUBLIC R.O.W.  
OCCUPANCY: N/A  
TYPE OF CONSTRUCTION: N/A

**PROPERTY LOCATION:**  
PUBLIC RIGHT-OF-WAY

**ACCESSIBILITY REQUIREMENTS:**  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS  
REQUIREMENTS ARE NOT REQUIRED.

#### UNDERGROUND LOCATES

**811**  
Know what's below.  
Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS  
UNDERGROUND FACILITIES BEFORE  
YOU DIG IN MISSOURI, CALL MISSOURI  
ONE CALL SYSTEM  
TOLL FREE: 1-800-344-7483 OR  
www.mo1call.org

MISSOURI STATUTE  
REQUIRES MIN OF 2  
WORKING DAYS NOTICE  
BEFORE YOU EXCAVATE

#### APPROVALS

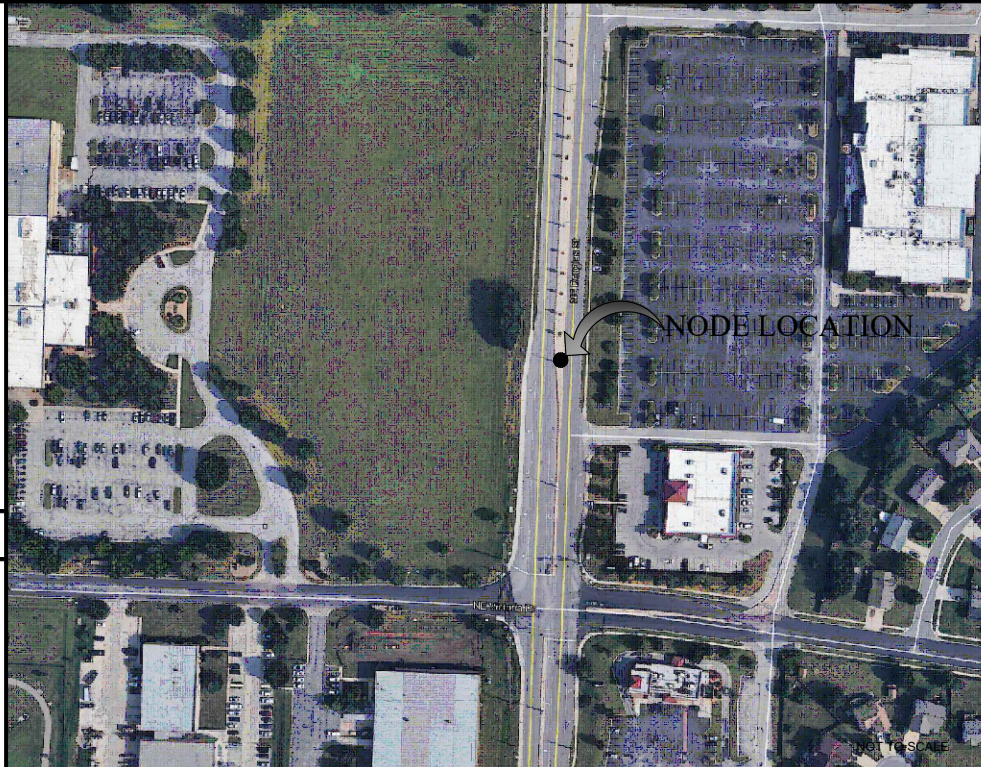
VERIZON PM \_\_\_\_\_ DATE \_\_\_\_\_

CITY \_\_\_\_\_ DATE \_\_\_\_\_

APPLICANT \_\_\_\_\_ DATE \_\_\_\_\_

PROPERTY OWNER \_\_\_\_\_ DATE \_\_\_\_\_

#### VICINITY MAP



#### PROJECT TEAM

**APPLICANT AGENT:**  
NAME: KPGco  
ADDRESS: 3305 HWY 60 W, FARIBAULT  
MN 55021  
CONTACT: NIKKI GAST  
PHONE: 816.266.2378  
EMAIL: nikki.gast@kgpco.com

**AJM MANAGER:**  
NAME: NOEL MAXEY  
PHONE: (949) 973-2380

**ENGINEER:**  
NAME: AJM CONSULTING  
ADDRESS: 1931 NEWPORT BLVD  
SUITE "C", COSTA MESA  
CA, 92627  
ENGINEER: STEPHEN HEATH  
CONTACT: NOEL MAXEY  
PHONE: (949) 973-2380  
EMAIL: noel@ajm-consult.com

**PROPERTY OWNER:**  
LEE'S SUMMIT, MISSOURI  
PUBLIC R.O.W.  
CONTACT: MICHAEL PARK  
PHONE: 816-969-1820

**POLE OWNER:**  
NAME: LEE'S SUMMIT, MISSOURI

**STRUCTURAL ENGINEER:**  
PROVIDED BY: VALMONT  
ADDRESS: 12661 CORRAL PL,  
SANTA FE SPRINGS,  
CA 90670

#### CONFIDENTIAL AND PROPRIETARY

NOT FOR DISCLOSURE OUTSIDE VERIZON WIRELESS INC WITHOUT WRITTEN  
PERMISSION.

#### GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND  
SHALL IMMEDIATELY NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE  
PROCEEDING WITH THE WORK OR BEAR THE RESPONSIBILITY FOR THE SAME.

#### CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE  
WITH THE CURRENT EDITIONS OF THE CODES AS ADOPTED BY THE LOCAL  
JURISDICTION:

- INTERNATIONAL BUILDING CODE (2018)
- INTERNATIONAL MECHANICAL CODE (2018)
- NATIONAL ELECTRIC CODE (2017)
- INTERNATIONAL FIRE CODE (2018)
- NATIONAL ELECTRIC SAFETY CODE (NEC)
- NATIONAL FIRE PROTECTION AGENCY (NFPA) 70
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO),  
STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES  
AND TRAFFIC SIGNALS, 6TH EDITION.
- AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND ANY SUPPLEMENTAL CHANGES.
- AMERICAN WITH DISABILITIES ACT (ADA) OF 1990.
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), A117.1 ACCESSIBLE AND USABLE BUILDINGS  
AND FACILITIES STANDARD.
- EVERGY, ELECTRICAL SERVICE STANDARD (LATEST EDITION)
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970
- NATIONAL FIRE PROTECTION AGENCY (NFPA) 70E, STANDARD FOR ELECTRICAL SAFETY IN THE  
WORKPLACE (LATEST EDITION)
- SECTION 9.5 - INTERSECTION SIGHT DISTANCE, IN THE AASHTO GREEN BOOK, 6TH EDITION.

#### SHEET

T-1  
GN-1  
GN-2  
A-1  
A-2  
A-3  
A-4  
A-5  
A-6  
A-7  
A-8  
E-1  
E-2  
E-3  
E-4  
RF-1  
S-1  
TCP-1  
TCP-2  
PCP-1

#### DESCRIPTION

TITLE SHEET  
GENERAL NOTES  
GENERAL NOTES  
SITE SURVEY  
UTILITY COORDINATION PLAN  
EXISTING SITE PLAN  
NEW SITE PLAN  
ELEVATION PLANS  
DETAILS  
DETAILS  
ELECTRICAL DETAILS  
CITY ELECTRICAL DETAILS  
CITY ELECTRICAL DETAILS  
SINGLE LINE DIAGRAM & GROUNDING  
RFDS  
STRUCTURAL ANALYSIS & DETAILS  
TRAFFIC CONTROL PLAN  
TRAFFIC CONTROL PLAN  
PEDESTRIAN CONTROL PLAN

#### SCOPE OF WORK

THESE DRAWINGS DEPICT A PORTION OF A SMALL CELL  
TELECOMMUNICATIONS NETWORK, TO BE CONSTRUCTED, IN  
THE PUBLIC RIGHT OF WAY PURSUANT TO THE AUTHORITY  
GRANTED BY THE JURISDICTION.

#### EQUIPMENT TO BE REMOVED:

(1) EXISTING 37'-4" STREET LIGHT

#### EQUIPMENT TO BE INSTALLED:

(1) NEW 40'-0" STREET LIGHT  
(1) NEW COMMSCOPE OMNI ANTENNA  
(1) NEW ERICSSON 8843 RRU  
(1) NEW ERICSSON 4449 RRU  
(1) NEW COMMSCOPE CABINET AT GRADE LEVEL  
(1) NEW FIBER PULL BOX AT GRADE LEVEL

#### NOTES:

STRUCTURAL DESIGN, ENGINEERING, AND CALCULATIONS,  
COMPLETED BY VERIZON WIRELESS/VALMONT.

#### DRIVING DIRECTIONS

FROM: KANSAS CITY INTERNATIONAL AIRPORT

1. HEAD SOUTHWEST ON COOKINGHAM DR TOWARD INTERNATIONAL CIR
2. CONTINUE STRAIGHT ONTO INTERNATIONAL CIR
3. KEEP RIGHT TO CONTINUE ON COOKINGHAM DR
4. CONTINUE ONTO NW 120TH ST
5. USE THE RIGHT 2 LANES TO MERGE ONTO I-29 S/US-71 S VIA THE RAMP TO KANSAS CITY
6. MERGE ONTO I-29 S/US-71 S
7. KEEP LEFT TO CONTINUE ON US-71, FOLLOW SIGNS FOR INTERSTATE 70 E/U.S. 40 E/SAINT LOUIS
8. CONTINUE ONTO I-70 E/US-71 S
9. KEEP LEFT AT THE FORK TO CONTINUE ON I-70 E/US-40 E, FOLLOW SIGNS FOR ST LOUIS
10. TAKE EXIT 15A TO MERGE ONTO I-470 S/MO-291 S TOWARD LEE'S SUMMIT
11. TAKE EXIT 9 FOR DOUGLAS ST
12. USE ANY LANE TO TURN LEFT ONTO NE DOUGLAS ST
13. POLE # 5G09 2-2 WILL BE ON THE LEFT.

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 STREET LIGHTING, 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' MIN VERTICAL CLEARANCE.
- D.

IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVED PLANS IS DAMAGED OR REMOVED DURING DEMO 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 VERIZON, 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 OR 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 VERIZON, 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 RESPONSIBLE FOR THE PROTECTION OF 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 DAYS PRIOR TO 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, OR STATE ENGINEERS.
- I.

ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- J.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROCESSING OF ALL APPLICANT PERMIT FORMS ALONG WITH THE REQUIRED LIABILITY INSURANCE FORMS. CLEARLY DEMONSTRATING THAT VERIZON, THE CITY, COUNTY OR STATE IS ALSO INSURED WITH THE REQUIRED LIABILITY INSURANCE FOR THIS CONSTRUCTION PROJECT.
- K.

VAULTS, PEDESTALS, CONDUITS AND 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 A REVISION IS NECESSARY BECAUSE OF LOCATION OF 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.
- O.

ALL MATERIAL USED IN CONSTRUCTION THAT WILL BE OWNED AND MAINTAINED BY THE CITY SHALL BE FROM THE APPROVED MATERIALS LIST.

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/IMPROVMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
- 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 THE 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 STREETS 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 STOCK PILED ON SITE CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OR 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 OR 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 BE 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 WORK 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.

ROW GROUND CONSTRUCTION NOTES

- A.

120/240 OR 120/208 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) 344-7483
- 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, CADWELD BELOW GRADE.
- C.

#6 WIRE FOR GROUNDING OR BONDING.
- D.

WOOD MOLDING, STAPLED EVERY 3' AND AT EACH END.
- E.

GROUND'S 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 MANREL TESTED AND EQUIPPED WITH 3/8" PULL ROPE.
- G.

SAND BEDDING MINIMUM 1" UNDER CONDUITS, AND 6" SANDSHADING ON TOP REQUIRED.
- H.

ALL TRENCHED ELECTRICAL SERVICE CONDUITS FROM POWER COMPANY, WHETHER FROM POLES, TRANSFORMERS, OR OTHER LOCATIONS; WILL BE SLURRY BACKFILLED.
- I.

IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- J.

IN DIRT SLURRY 18" FROM GRADE, AND FILL WITH 95% COMPACTION NATIVE SOIL FOR BALANCE.
- K.

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 OF REARRANGEMENT OF CLIMBERS.
- 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 TRANSIT 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.

GENERAL NOTES

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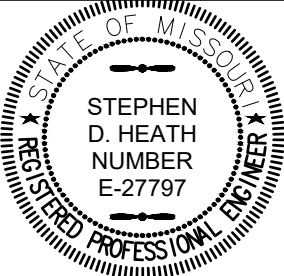
PROPRIETARY INFORMATION

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ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED



SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

GENERAL NOTES

GN-1



ELECTRICAL

- A. CONTRACTOR SHALL REVIEW THE THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
- B. ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OR ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
- C. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- D. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "UL" WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "UL" LISTED.
- E. ALL CONDUIT SHALL HAVE A PULL CORD.
- F. PROVIDE PROJECT MANAGER WITH ON SET OF COMPLETE ELECTRICAL "AS-INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- G. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AN A MIN OF 10,000 AIC.
- H. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC,NEC AND ALL APPLICABLE CODES.
- I. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- J. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVER PLATES.

SERVICE AND DISTRIBUTION

- A. STREETLIGHTING DISTRIBUTION CABLE MUST BE #2, #4, #6, OR #8 AWG CU RHW/USE, 600V, COPPER STRANDED AND COLOR CODED BLACK, RED (OR BLACK) AND GREEN (APWA 2802.8) FOR A GROUNDED 240V SYSTEM (SINGLE PHASE)
- B. STREETLIGHTING DISTRIBUTION CABLE SHALL BE INSTALLED IN SCH 40, 2" PVC CONDUIT OR IN PREASSEMBLED "CABLE-IN-DUCT". ALL CONDUIT RUNS SHALL BE PLACED 24" FROM BACK OF CURB WHERE POSSIBLE AND AT A MIN DEPTH OF 24"
- C. STREETLIGHT CABLE USED WITHIN THE POLES SHALL BE 3 - #10, TYPE RHW/USE, 600 VOLTS RATED COPPER, UL LISTED AND COLOR CODED RED, BLACK, AND GREEN ACCORDING TO THE NEC.
- D. PROVIDE AND INSTALL IN EACH POLE BASE, 3 SINGLE-POLE, SET-SCREW, IN-LINE, BREAKAWAY, FUSEHOLDERS. USE BUSSMAN (OR APPROVED EQUAL) MODEL NO. HEB-JW-RYC AND HEB-JW-RLC-J (LAST POLE). FOR THE 2 "HOT" BREAKAWAY CONDUCTORS, PLACE A 10 AMP KTK FUSE IN EACH BREAKAWAY FUSEHOLDER AND A NNB COPPER SLUG IN THE SYSTEM GROUND FUSEHOLDER.
- E. WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN SIZE OF #12 AWG, COLOR CODED UNLESS OTHERWISE NOTED.
- F. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
- G. RIGID CONDUIT SHALL BE UL LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- H. FLEXIBLE METALLIC CONDUIT SHALL HAVE UL LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
- I. IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY 811 OR OTHER SUCH UTILITY LOCATING AGENCY 3 DAYS BEFORE DIGGING.

- J. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE, THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
- K. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MIN LETTER HEIGHT SHALL BE 1/4"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
- L. UPON COMPLETION OF WORK, CONTINUITY, SHORT CIRCUIT AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO THE PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- M. GROUNDING ELECTRODE SYSTEM: FOR SURFACE PREPARATION ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
- N. IF CONDUCTORS MUST RUN THROUGH CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
- O. EXTERNAL CONNECTIONS: ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEES, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTING PROTECTION SYSTEMS ARE TO BE AS INDICATED, ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "ULTRAWELD" AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- P. ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD). MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLEY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.
- Q. GROUND RODS: ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER x 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.
- R. GROUND CONDUCTORS: ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS OTHERWISE NOTED.
- S. LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #54\_\_\_BE OR EQUIVALENT.

1. 535 MCM DLO	54880BE
2. 262 MCM DLO	54872BE
3. #1/0 DLO	54862BE
4. #4/0 THWN & BARE	54866BE
5. #2/0 THWN	54862BE
6. #2 THHN	54207BE
7. #6 DLO	54205BE

- T. WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

MINIMUM BENDING GROUNDING CONDUCTOR SIZE	RADIUS TO INSIDE EDGE
NO. 6 AWG TO NO. 4 AWG	6 INCHES
NO. 2 AWG TO NO. 1/0 AWG	8 INCHES
NO. 2/0 AWG TO 4/0 AWG	12 INCHES
NO. 250 MCM TO 750 MCM	24 INCHES

- U. GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS MUST BE SUBMITTED. TWO (2) SETS OF TEST DOCUMENTS FROM THE INDEPENDENT TESTING SERVICE ARE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

POLES, POSTS, AND STANDARDS (SINGLE MAST & SELF SUPPORTING TOWERS)

- A. LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE FURNISHED BY VERIZON, IF REQUIRED.
- B. GROUNDING: GROUND METAL POLES WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR USING EXOTHERMIC CONNECTION TO TOWER BASE PLATE.

TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE

- A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY
- B. ALL MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- C. COAXIAL CABLE: INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIOMENT PER MANUFACTURERS RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURERS REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
- D. COAXIAL LENGTHS LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8"
- E. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
- F. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS: FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED). SECOND LOCATION IS AT THE END OF THE COAX NEAREST THE EQUIPMENT.
- G. USE ANDREW CABLE TIES (PT.# 27290) TO SECURE IDENTIFICATION TAGS.
- H. TESTING: LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE CLIMBER/QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.

GENERAL NOTES

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

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AJM Consulting

1931 Newport Blvd. Suite C  
Costa Mesa, CA 92627-2250  
Phone: 949-973-2380



3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

PROPRIETARY INFORMATION

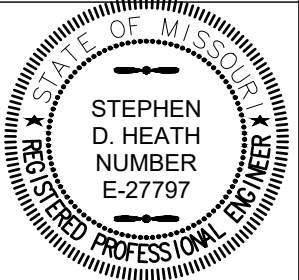
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OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE

SUMMIT

DOUGLAS - A

LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

GENERAL NOTES

GN-2

REV	DATE	DESCRIPTION	BY
A	04/27/2020	90% CD - FOR REVIEW	NM
B	06/29/2020	90% CD - REVISED	NM
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F	09/30/2020	100% CD - REVISED	TR

**AJm Consulting**

1931 Newport Blvd. Suite C  
Costa Mesa, CA 92627-2250  
Phone: 949-973-2380



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PHONE: 913.219.1065

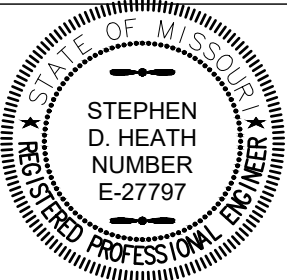
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## SMALL CELL PROJECT

## PRELIMINARY

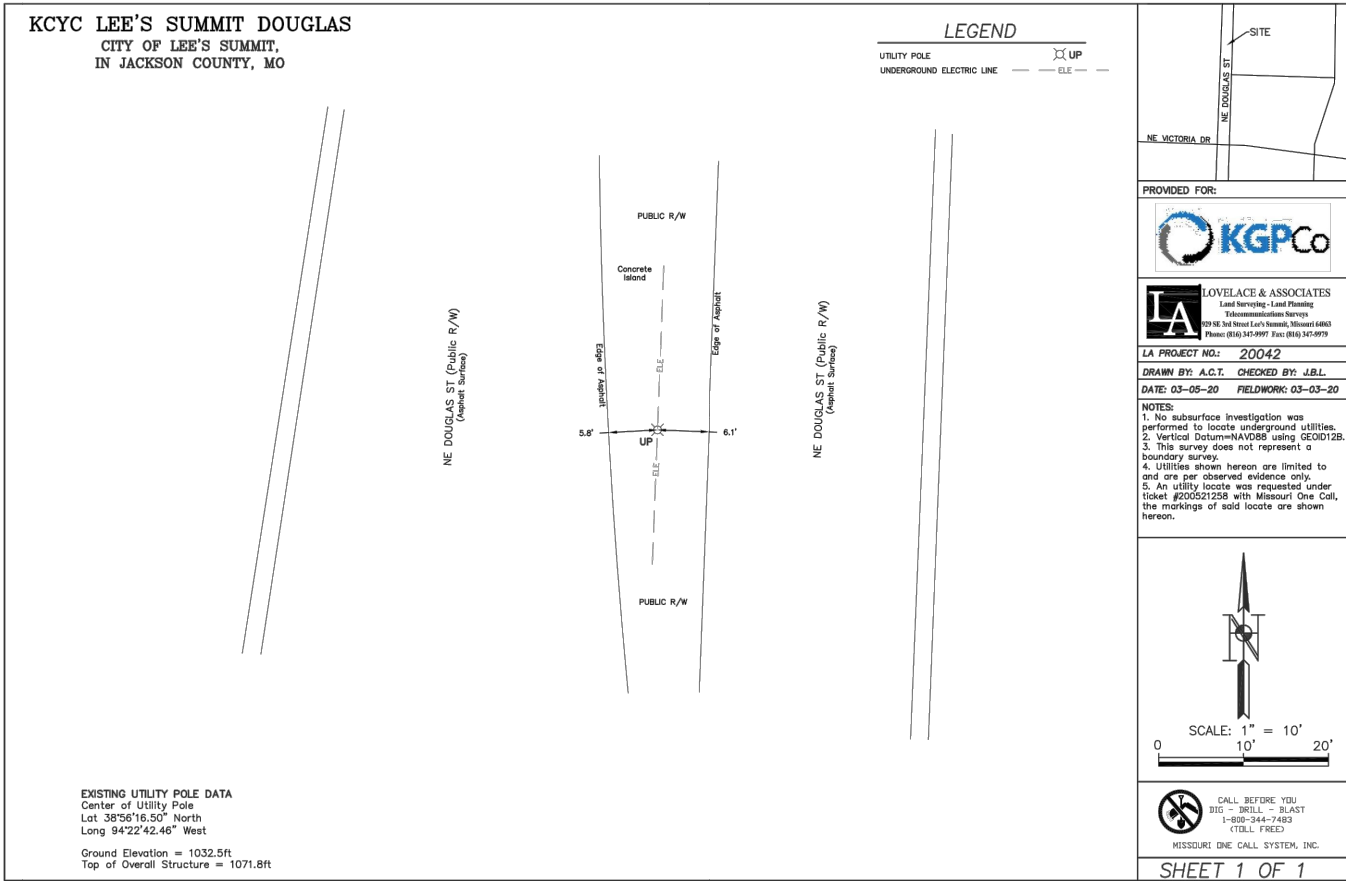
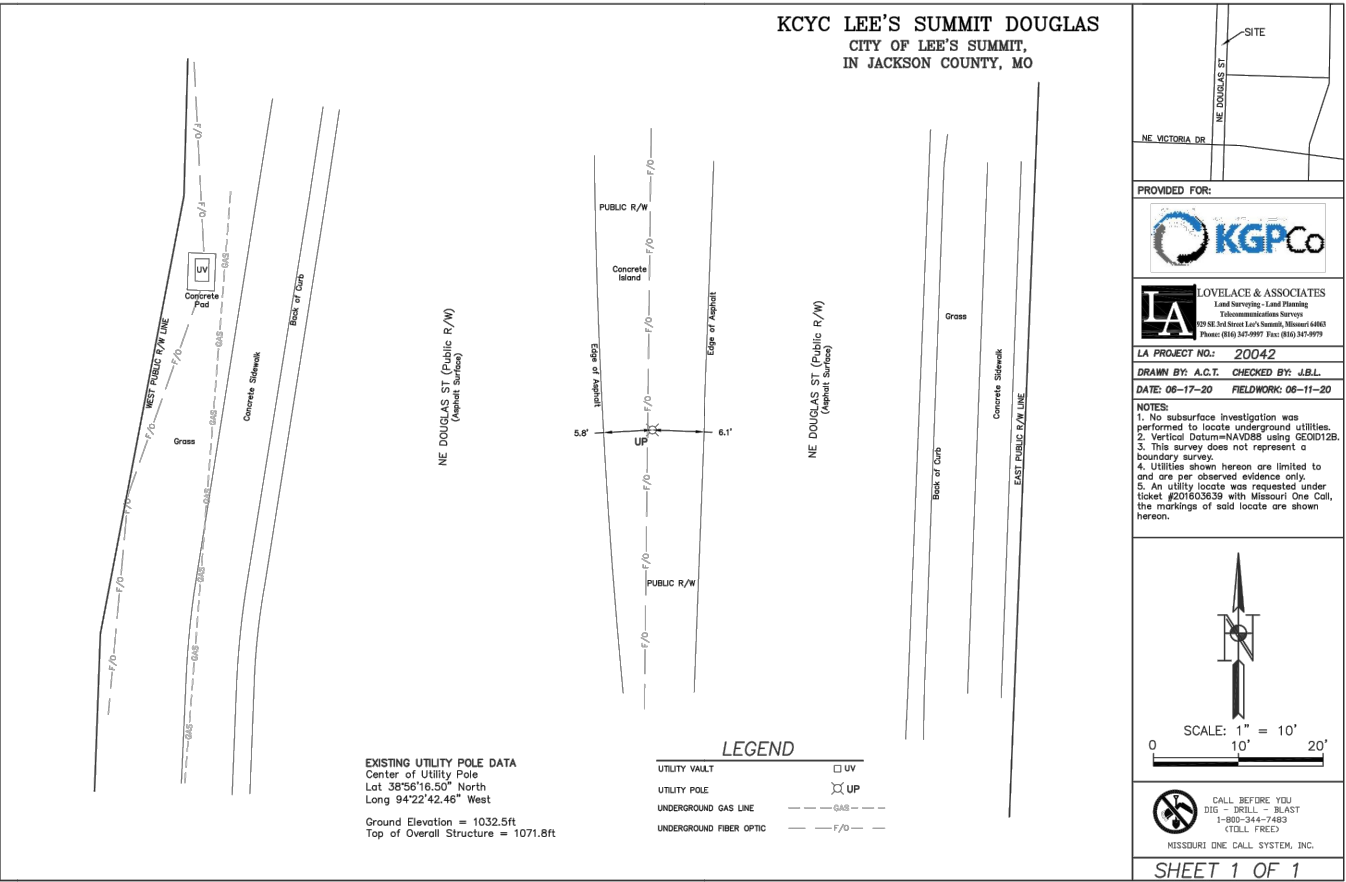


DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
**SITE SURVEY**

# A-1





Evergy

- Point of service will be new pole mounted transformer on pole # 1325936
  - Install 15kVA transformer and secondary riser on pole # 1325936
- Joint Use
- No make ready required

Foreman:

Built as designed: YES / NO

Date: Initials:

Verizon Contractor

- Install 85ft of conduit to new meter pedestal which will be west of site

Note: Refer to construction drawing for wire sizes and specifications



5G09 2-2

Foreman:

Built as designed: YES / NO

Date: Initials:

- General Notes:
- This utility plan was generated without the use of a survey. Property lines, dimensions, power and telco utility point connections/routes and easements shown on these plans are estimated
  - City of Lee's Summit approved contractor is required to remove old street light pole and install new bracket arm and street light head
  - All Evergy facilities are designed to be in right of way or utility easement
  - Coordinate with Black & McDonald to make secondary connections on Evergy facilities
  - Supply Black & McDonald electrical permitting and city clearance inspection to install meter

LEGEND	
	EXISTING DISTRIBUTION
	PROPOSED UNDERGROUND
	PROPOSED OVERHEAD
	RIGHT OF WAY
	UTILITY EASEMENT

REVISIONS		
REVISION	REVISION DATE	DRAWN BY
0	03-24-2020	JBS
1	04-02-2020	JBS

KCYC LEES SUMMIT DOUGLAS  
1470 NE Douglas St, Lee's Summit, MO 64086  
38.937919, -94.378458



RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

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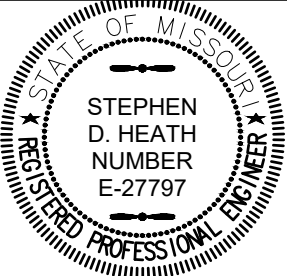
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SMALL CELL PROJECT

PRELIMINARY

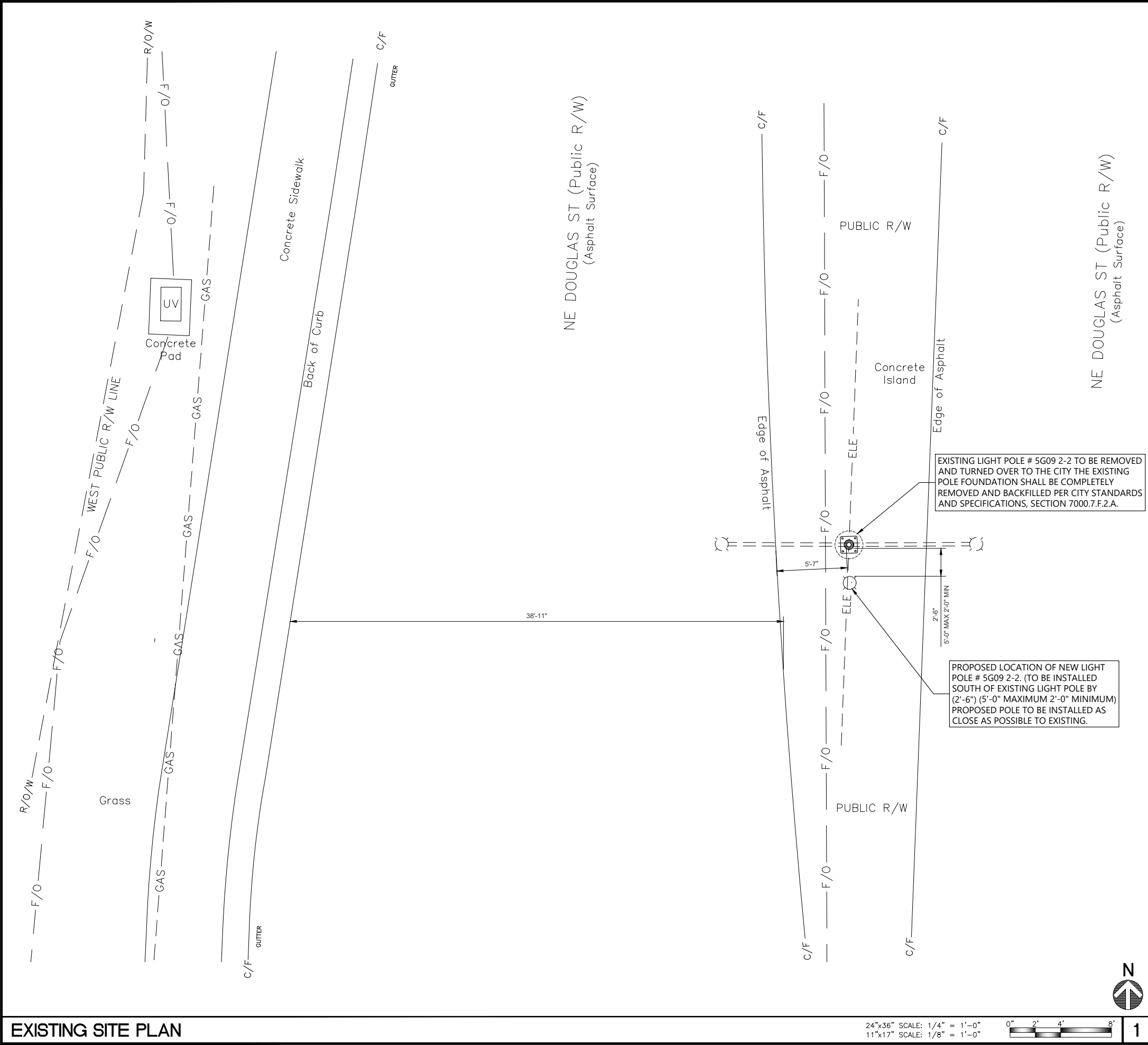


DATE: 04-27-2020

KCYC LEE SUMMIT DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
UTILITY COORDINATION PLAN





EXISTING SITE PLAN

24"x36" SCALE: 1/4" = 1'-0"  
11"x17" SCALE: 1/8" = 1'-0"



NOTES

THIS IS NOT A SITE SURVEY:  
  
ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH & STREET HALF-WIDTHS ARE APPROXIMATE. ALL PROPERTY LINES, EASEMENTS, & SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

CONTRACTOR NOTES:  
  
1. CONTRACTOR SHALL REPAIR ALL DAMAGES RESULTING FROM CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITIONS AT COMPLETION OF WORK.  
  
2. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING LOCATIONS WITH LANDLORD.  
  
3. ALL STREET LIGHT POLES WILL REQUIRE A NEW FOUNDATION. REFERENCE TO STRUCTURAL PLANS PROVIDED BY OTHERS.  
  
4. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EQUIPMENT TO MEET SYSTEM REQUIREMENTS.

EXHIBIT PHOTO

UTILITY NOTE:  
  
THE LOCATIONS AND EXISTENCE OF ANY UNDERGROUND PIPES, STRUCTURES OR CONDUITS SHOWN ON THIS PLAN WERE OBTAINED FROM LOVELACE & ASSOCIATES AND ARE APPROXIMATE. THERE MAY BE EXISTING UTILITIES OTHER THAN THOSE SHOWN ON THIS PLAN. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES SHOWN ON THIS PLAN.  
  
NEW UTILITY SERVICE FROM TELCO POC TO VERIZON WIRELESS INSTALLED FIBER PULL BOX TO BE DETERMINED BY UTILITY PROVIDER. UPON SERVICE CONTRACT AWARD, THE FIBER PROVIDER WILL DESIGN, CONSTRUCT, AND INSTALL UTILITY INFRASTRUCTURE UNDER THEIR RIGHTS/SEPARATE PERMIT AND WILL COORDINATE SERVICE ACTIVATION WITH VERIZON WIRELESS.

UTILITY LEGEND

— T —	— T —	— T —	— T —	— T —	TELCO
— E —	— E —	— E —	— E —	— E —	POWER
— G —	— G —	— G —	— G —	— G —	GAS
— W —	— W —	— W —	— W —	— W —	WATER
— SEWER —	— SEWER —	— SEWER —	— SEWER —	— SEWER —	SEWER
— SD —	— SD —	— SD —	— SD —	— SD —	STORM DRAIN
— OIL —	— OIL —	— OIL —	— OIL —	— OIL —	OIL
— PHONE —	— PHONE —	— PHONE —	— PHONE —	— PHONE —	PHONE
— CABLE TV —	— CABLE TV —	— CABLE TV —	— CABLE TV —	— CABLE TV —	CABLE

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

ISSUE STATUS

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AJM Consulting  
1931 Newport Blvd. Suite C  
Costa Mesa, CA 92627-2250  
Phone: 949-973-2380

3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

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OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY

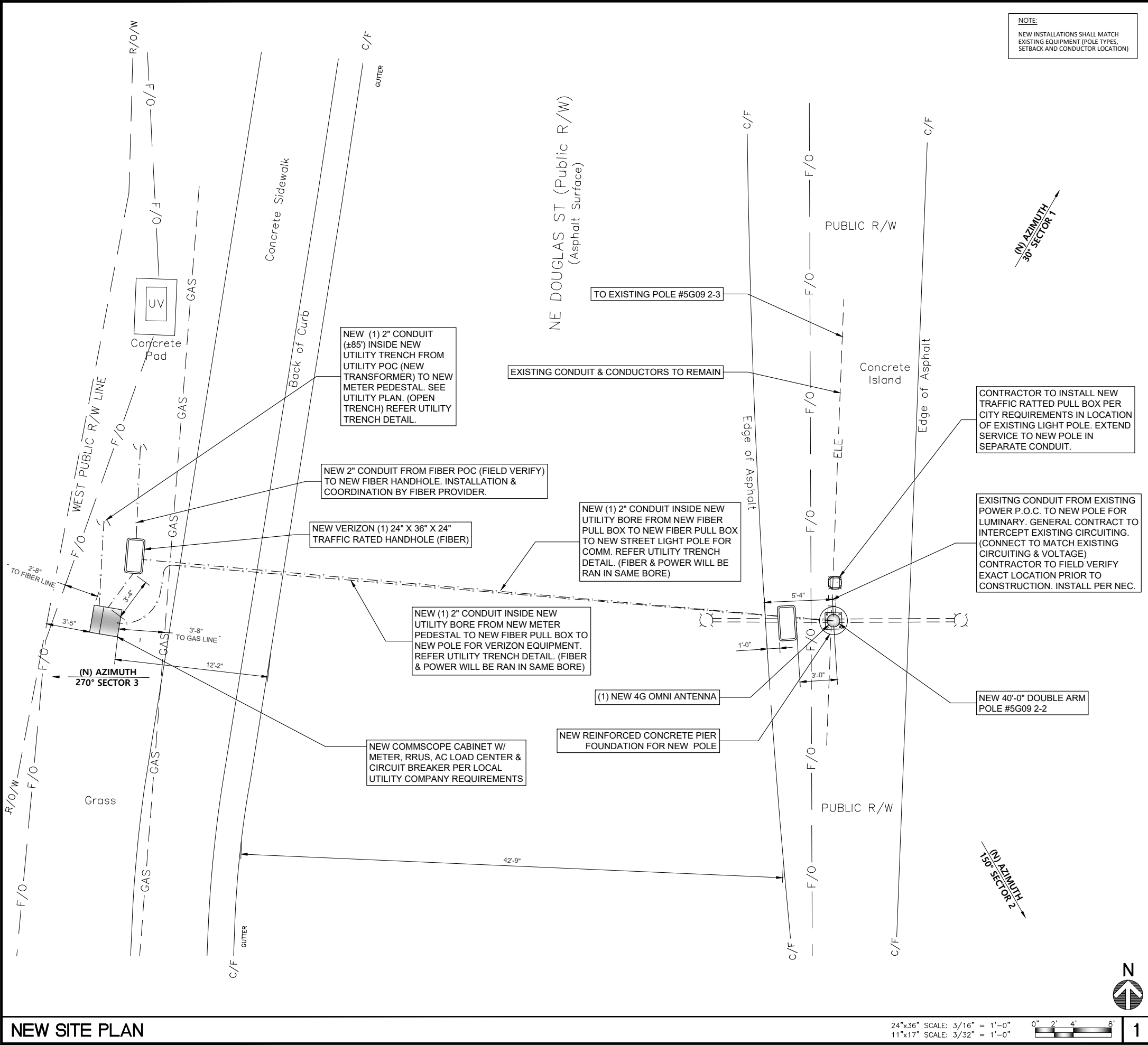
DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
EXISTING SITE PLAN

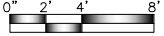
A-3





NEW SITE PLAN

24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"



1

NOTES

THIS IS NOT A SITE SURVEY:

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- CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EQUIPMENT TO MEET SYSTEM REQUIREMENTS.

EXHIBIT PHOTO



UTILITY NOTE:

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UTILITY LEGEND

— T —	— T —	— T —	— T —	— T —	— T —	TELCO
— E —	— E —	— E —	— E —	— E —	— E —	POWER
— G —	— G —	— G —	— G —	— G —	— G —	GAS
— W —	— W —	— W —	— W —	— W —	— W —	WATER
— SEWER —	— SEWER —	— SEWER —	— SEWER —	— SEWER —	— SEWER —	SEWER
— SD —	— SD —	— SD —	— SD —	— SD —	— SD —	STORM DRAIN
— OIL —	— OIL —	— OIL —	— OIL —	— OIL —	— OIL —	OIL
— PHONE —	— PHONE —	— PHONE —	— PHONE —	— PHONE —	— PHONE —	PHONE
— CABLE TV —	— CABLE TV —	— CABLE TV —	— CABLE TV —	— CABLE TV —	— CABLE TV —	CABLE

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

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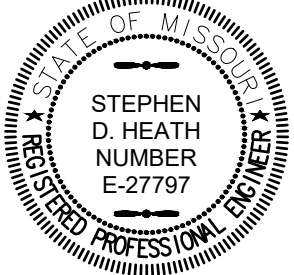
**KGPCo**  
3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

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**verizon**  
10740 NALL AVENUE  
OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



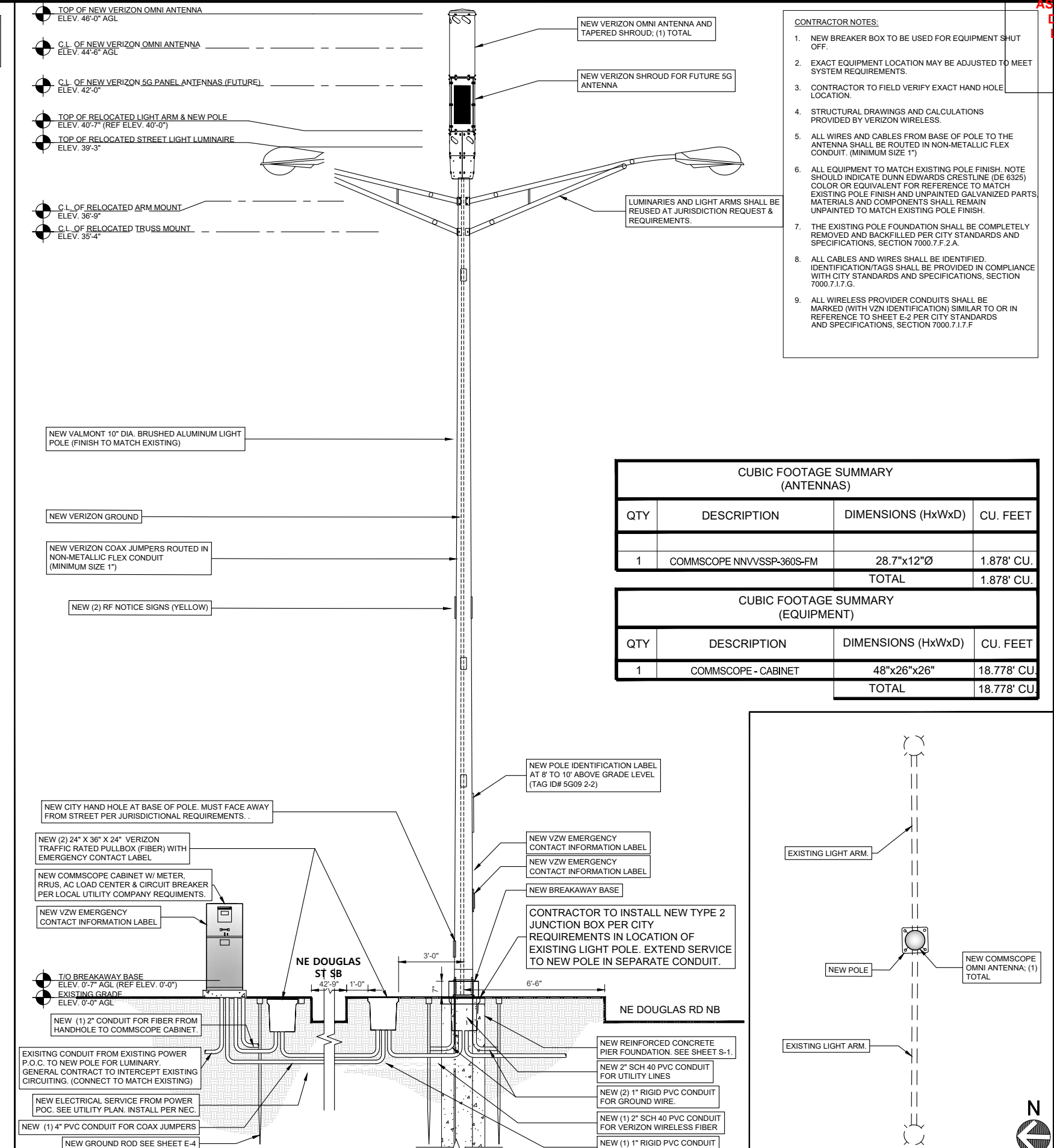
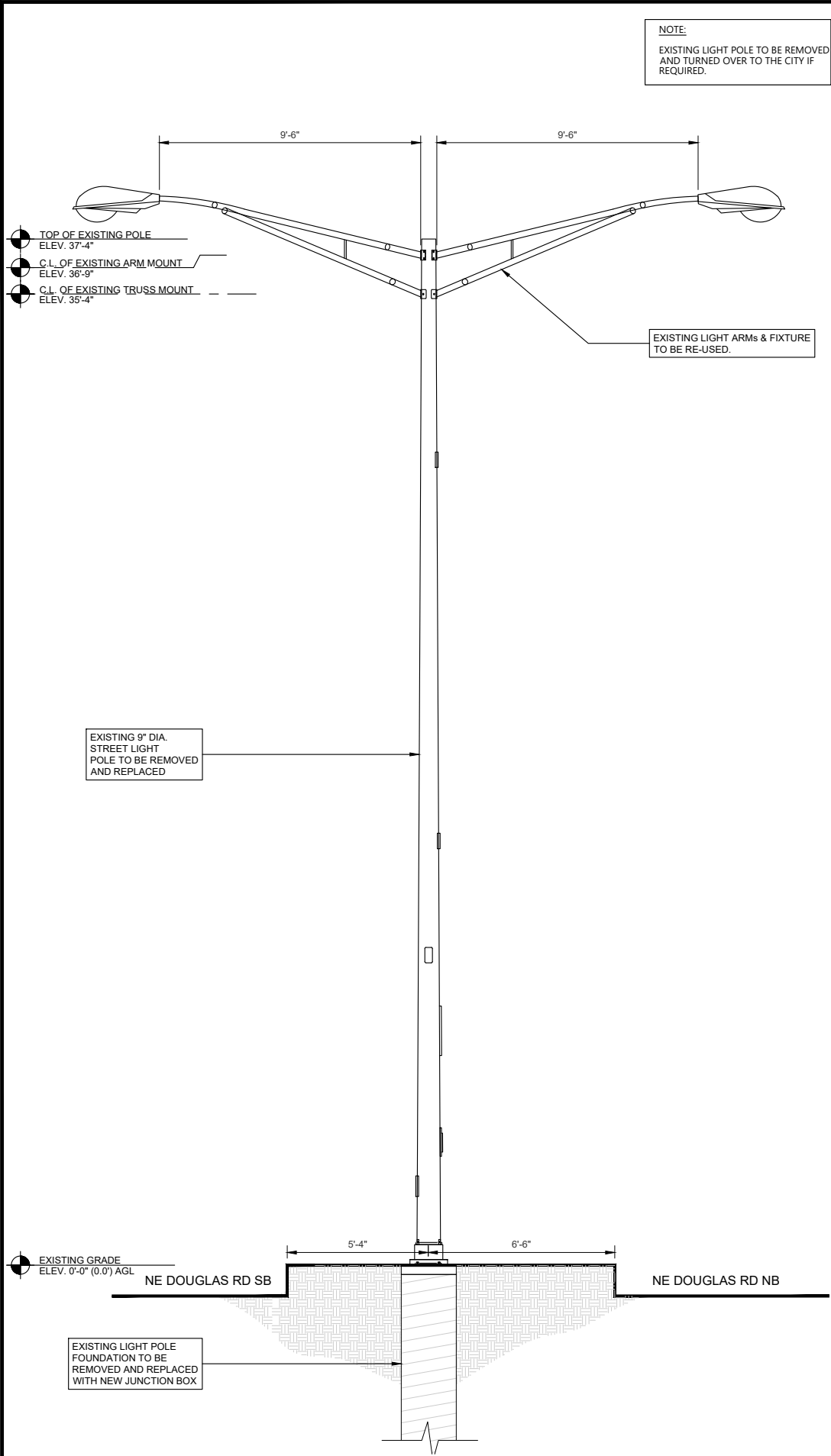
DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

NEW SITE PLAN

A-4



ANTENNA LAYOUT

RELEASE FOR CONSTRUCTION

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LEE'S SUMMIT, MISSOURI

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C	07/22/2020	90% CD - REVISED	NM
D	08/18/2020	100% CD	NM
E	09/17/2020	100% CD - REVISED	TRS
F	09/30/2020	100% CD - REVISED	TRS

**AJM Consulting**

1931 Newport Blvd. Suite C  
Costa Mesa, CA 92627-2250  
Phone: 949-973-2380

**KGPCo**

3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

PROPRIETARY INFORMATION

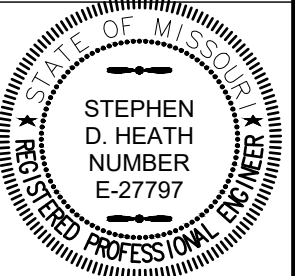
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**verizon**

10740 NALL AVENUE  
OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



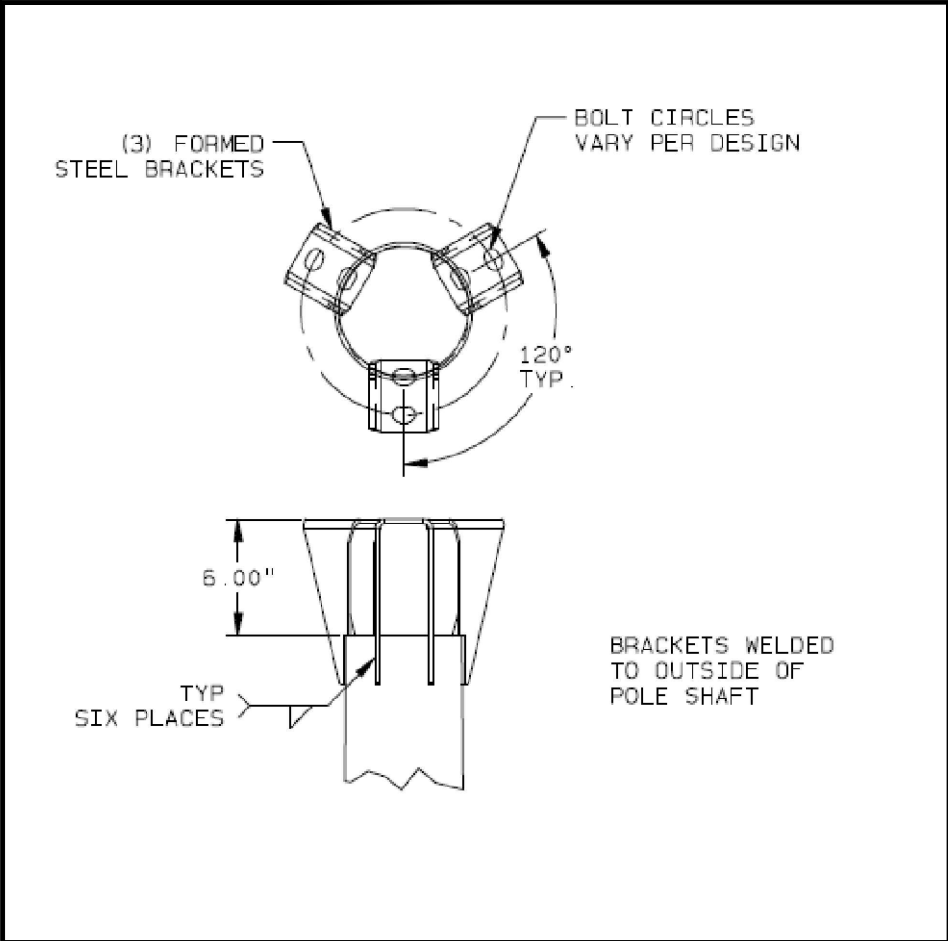
DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
ELEVATION PLANS

**A-5**





POLE TOP BRACKETS

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

1

COMMSCOPE OMNI ANTENNA

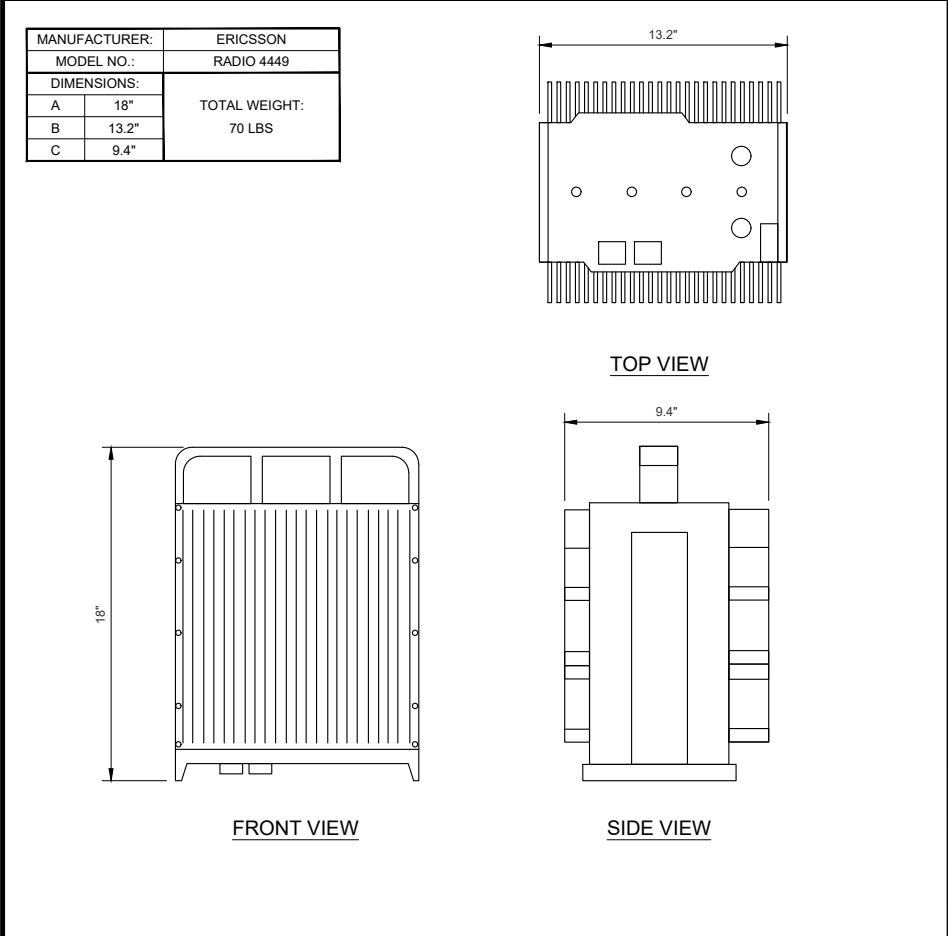
24"x36" SCALE: NTS  
11"x17" SCALE: NTS

2

ERICSSON 2208 RRU

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

3



ERICSSON 4449 RRU

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

4

ANTENNA MOUNTING CONCEALMENT

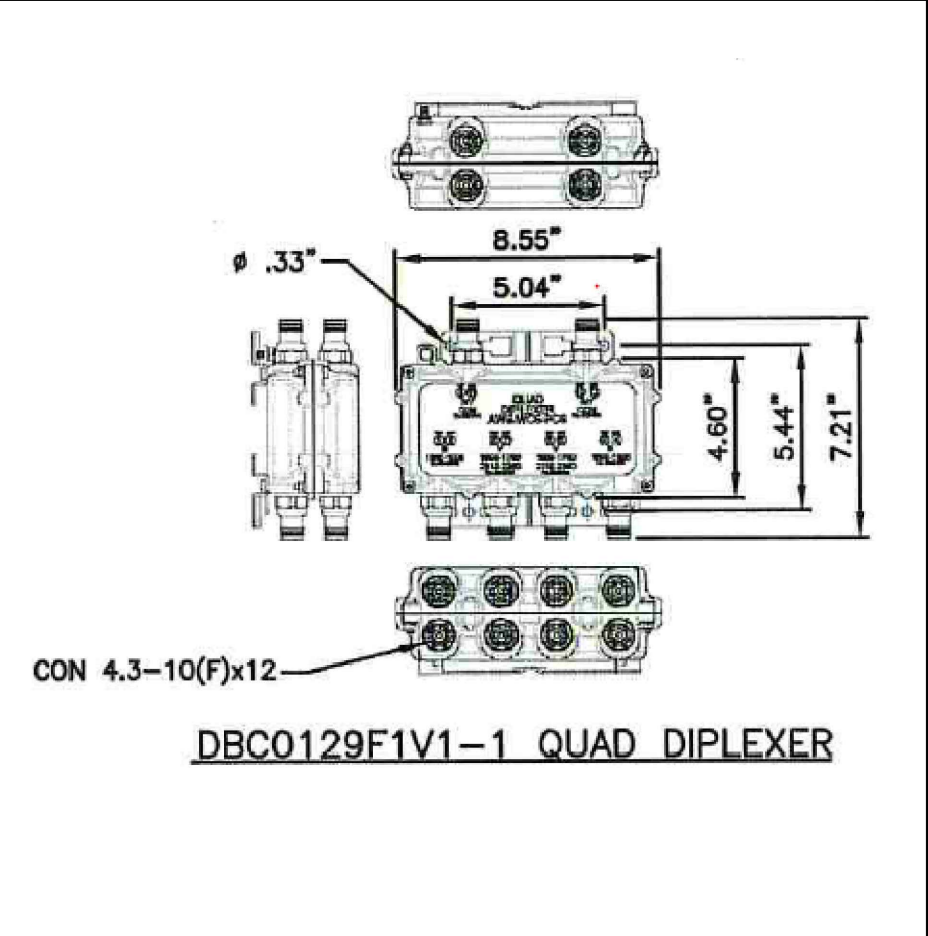
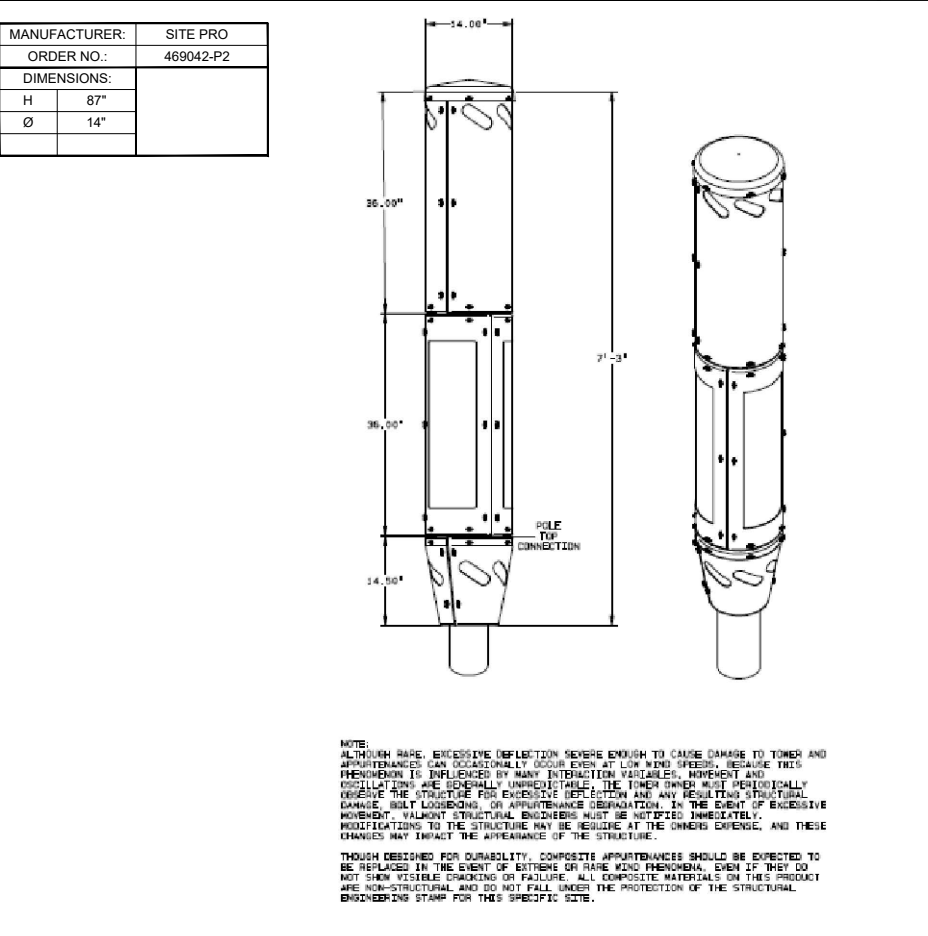
24"x36" SCALE: NTS  
11"x17" SCALE: NTS

5

DIPLEXER DETAIL

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

6



RELEASE FOR CONSTRUCTION				
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES				
REV.	DATE	DESCRIPTION	BY	
A	04/27/2020	90% CD - FOR REVIEW	NM	
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C	07/22/2020	90% CD - REVISED	NM	
D	08/18/2020	100% CD	NM	
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F	09/30/2020	100% CD - REVISED	TRS	

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Phone: 949-973-2380

**KGP** Co  
3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

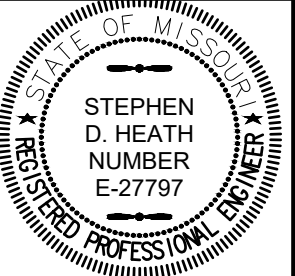
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PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



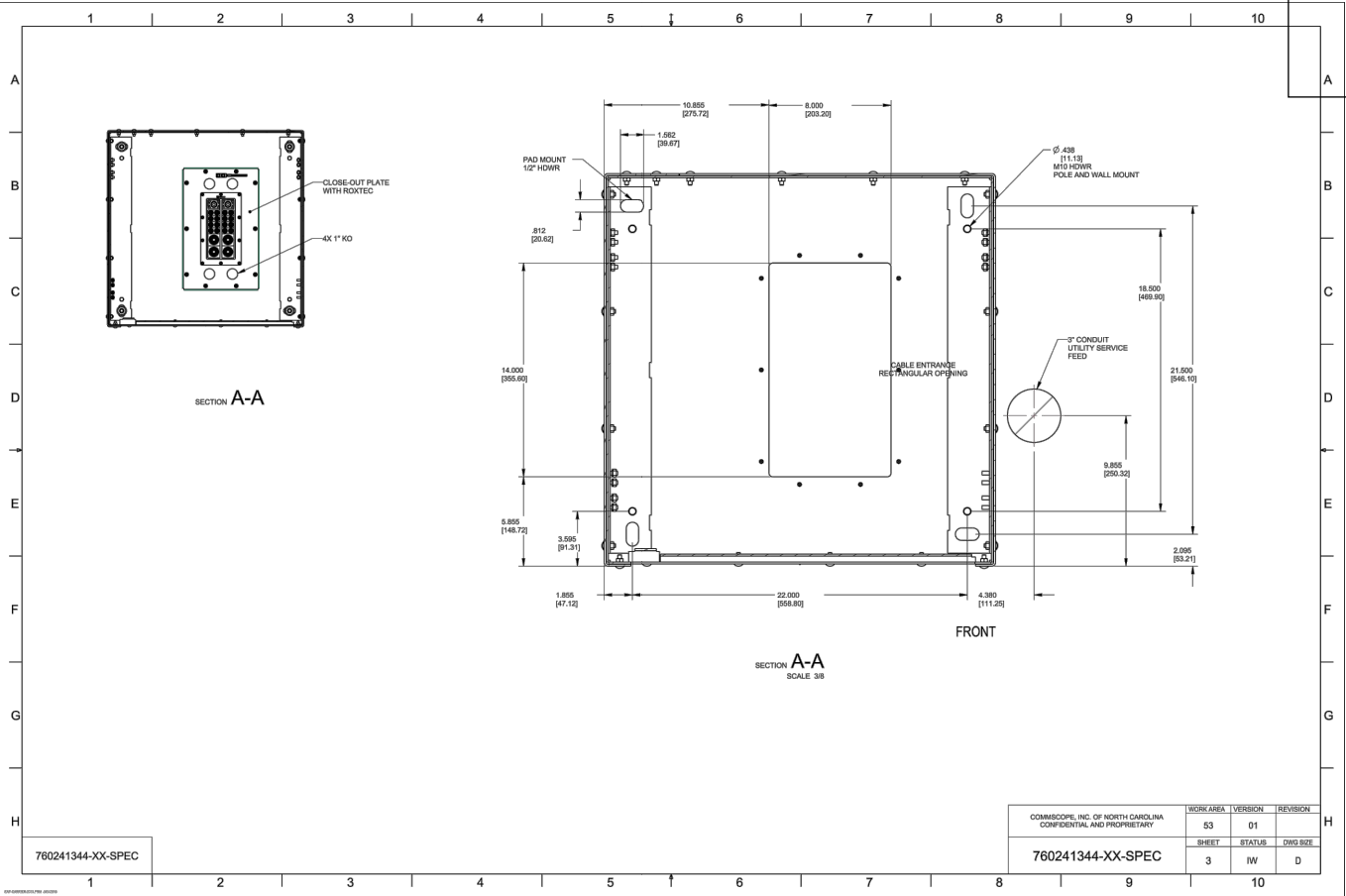
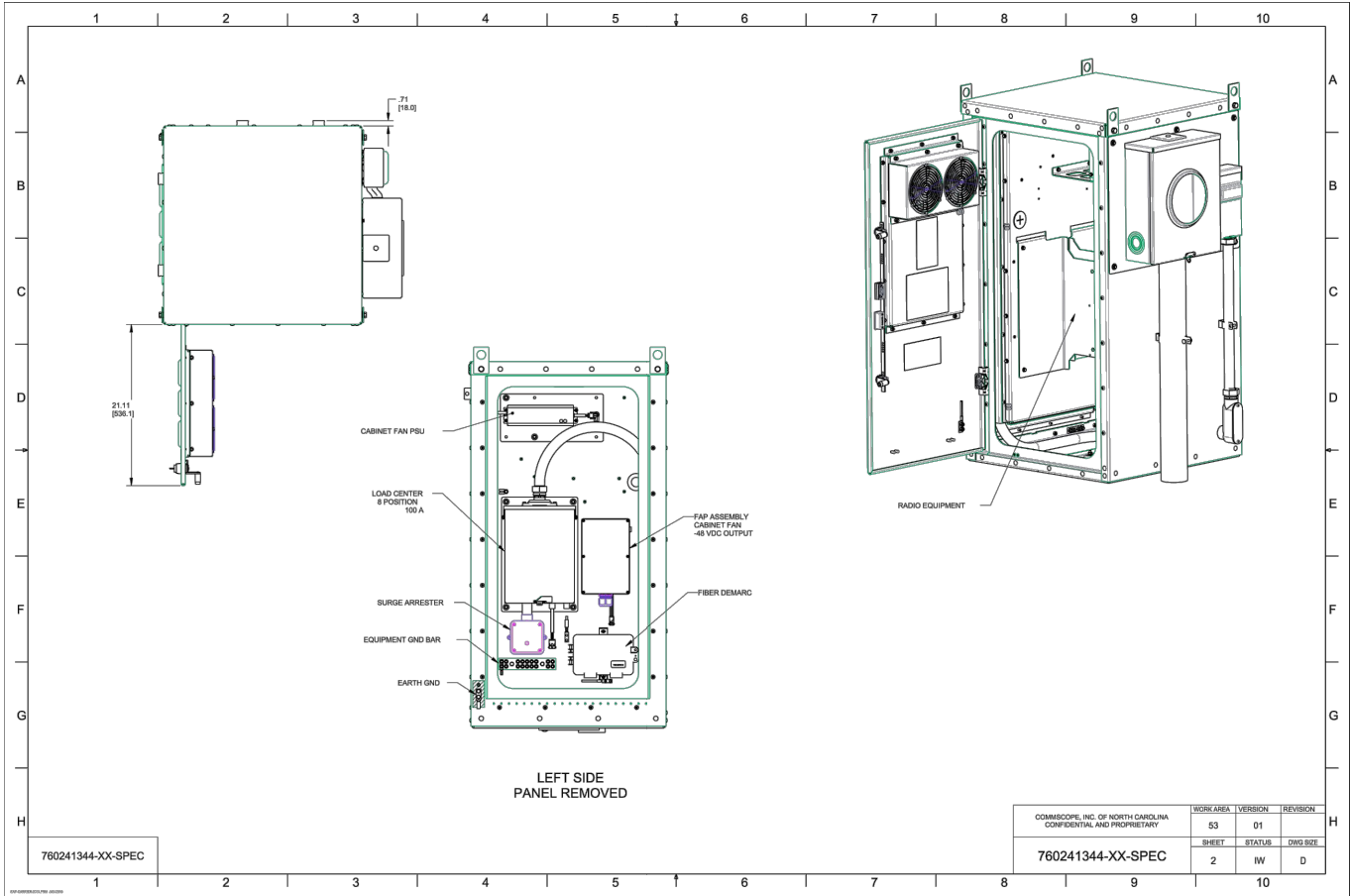
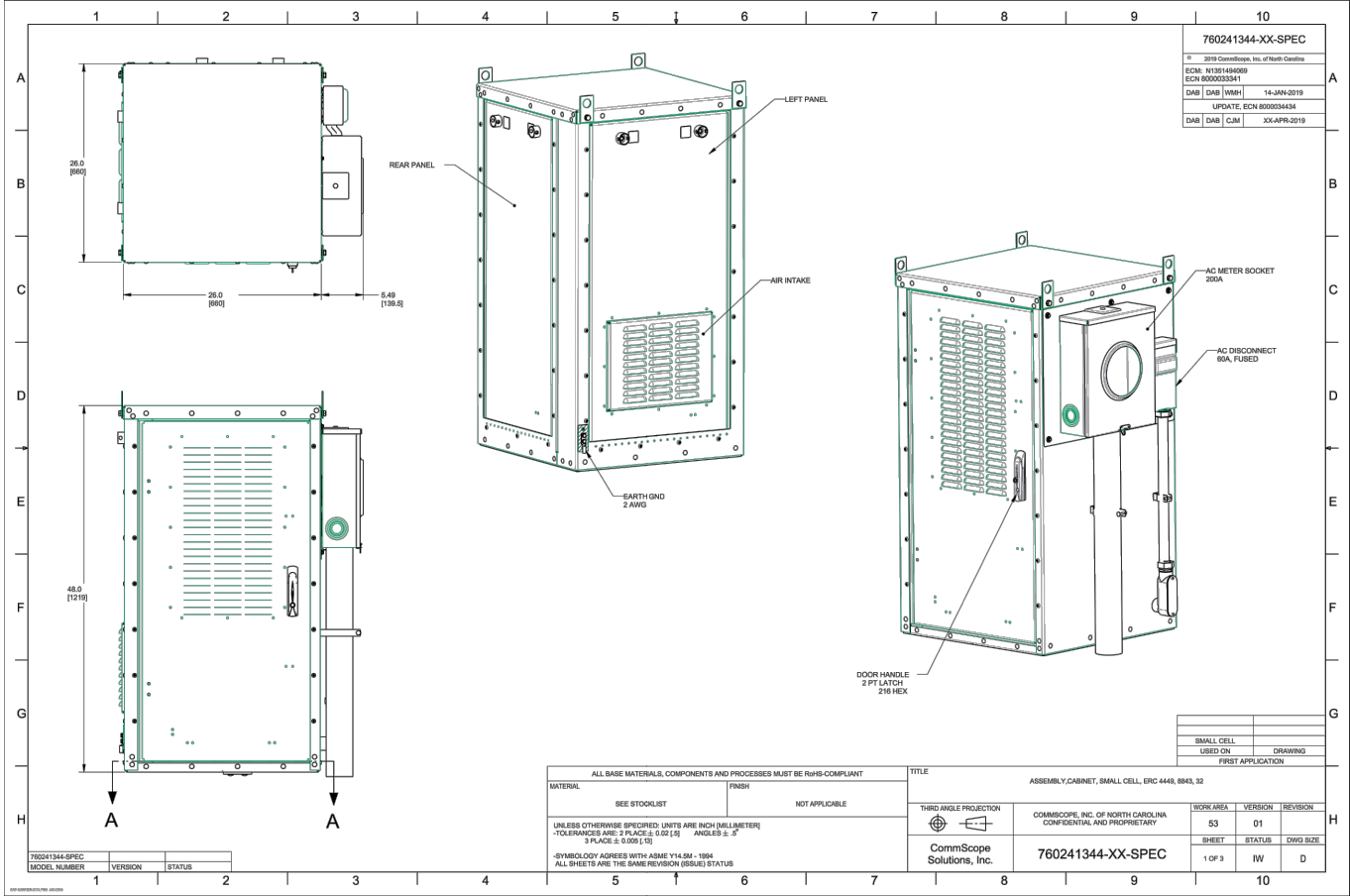
DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

DETAILS

A-6



RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

ISSUE STATUS

REV	DATE	DESCRIPTION	BY
A	04/27/2020	90% CD - FOR REVIEW	NM
B	06/22/2020	90% CD - REVISED	NM
C	07/22/2020	90% CD - REVISED	NM
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Phone: 949-973-2380

KGPCo

3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

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verizon

10740 NALL AVENUE  
OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY

STATE OF MISSOURI

STEPHEN D. HEATH  
NUMBER E-27797  
REGISTERED PROFESSIONAL ENGINEER

DATE: 04-27-2020

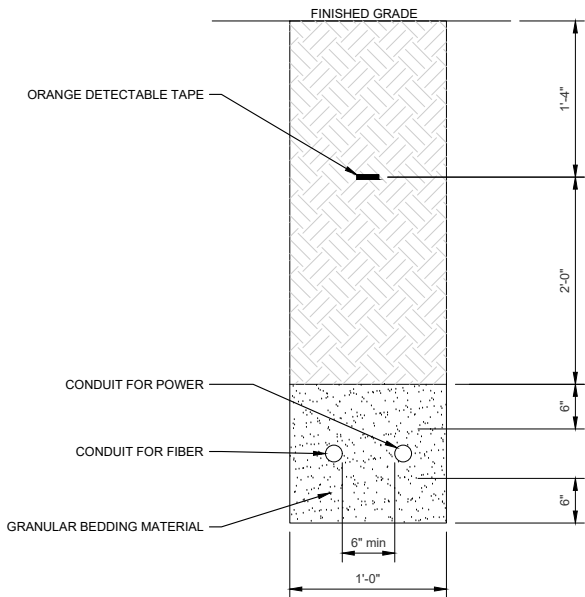
KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
DETAILS

A-7



NOTE:  
CONTRACTOR TO REFER  
TO PLAN FOR CONDUIT SIZE.



NOTE:  
1. EXCAVATE TO REQUIRED DEPTH.  
2. VERIFY ALL TRENCHING REQUIREMENTS WITH SERVING UTILITIES.  
3. CALL BEFORE YOU DIG. CONTACT SERVING UTILITIES.  
4. FIBER AND POWER CONDUITS MAY BE RUN IN SEPARATE TRENCHES. CONDUITS SHALL MAINTAIN 6" MINIMUM SEPARATION.

## UTILITY TRENCH DETAIL

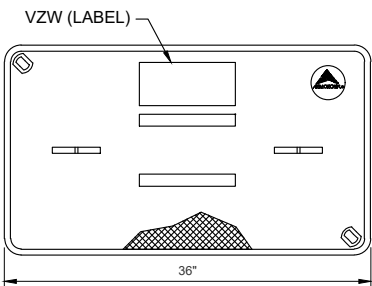
24"x36" SCALE: NTS  
11"x17" SCALE: NTS

1

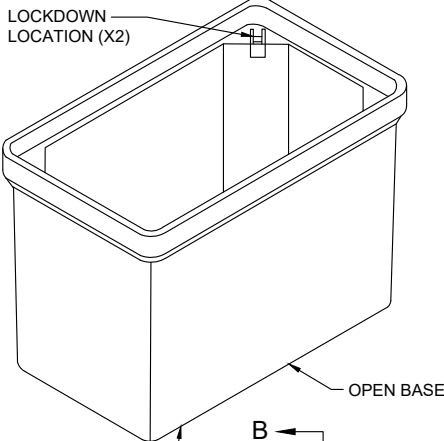
## VERIZON PULL BOX DETAIL (24" (W) X 36" (L) X 24" (H))

2

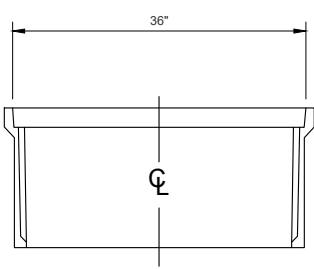
PULL BOX SPECIFICATIONS:  
ARMORCAST PRODUCTS COMPANY  
24" X 36" X 24" POLYMER CONCRETE BOX  
DRAWING NUMBER - A6001974APCX24  
APPROX. WT. = 277 LBS.



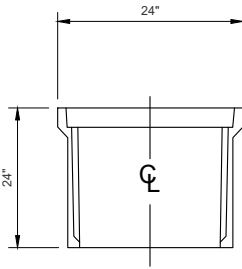
POLYMER CONCRETE COVER



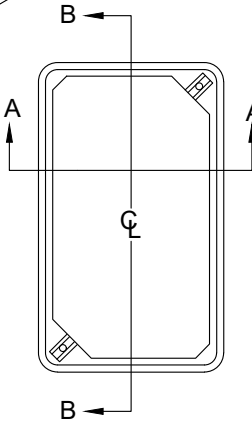
POLYMER CONCRETE BOX A6001974APCX24



SECTION B-B



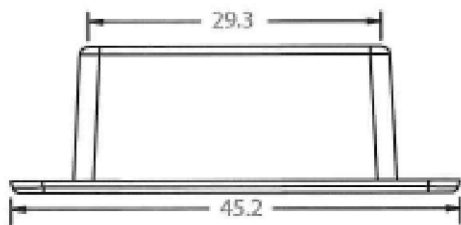
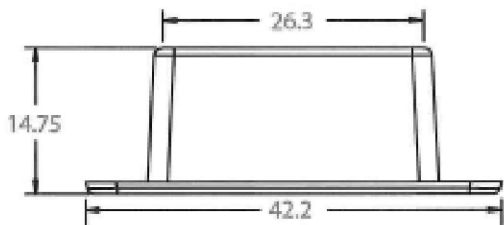
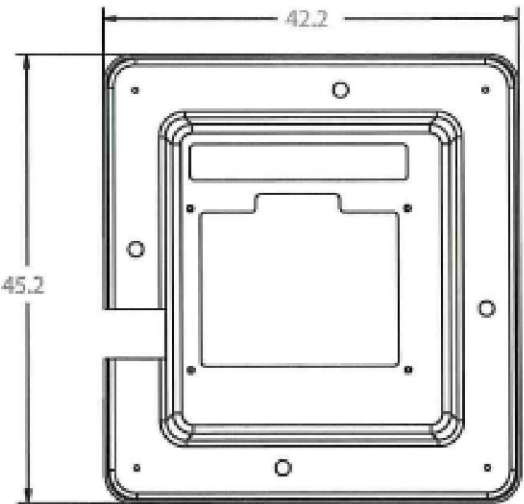
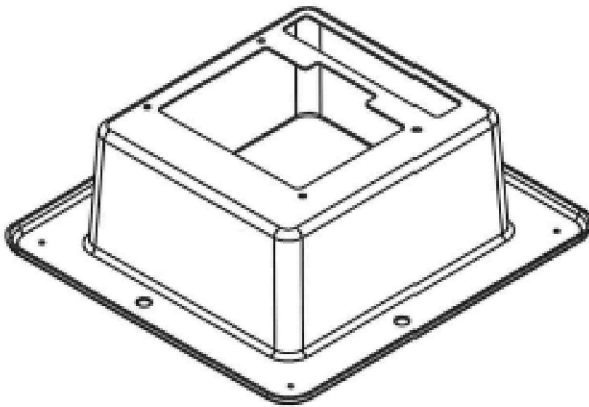
SECTION A-A



TOP VIEW

NOTE:  
INSTALLATION OF CPAD-S  
PER MANUFACTURERS  
STANDARDS

NOTE:  
COMPOSITE FIBERGLASS  
MATERIAL



## 4G EQUIPMENT PAD DETAILS (CPAD-S1EXXXXXXA)

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

3

NOTE:  
RF NOTICE SIGN FOR MINI MACROS (>40  
WATT OUTPUT POWER FROM ANTENNAS)



ANTENNA SIGNAGE:  
ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE  
ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES  
ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES  
SIGN PLACEMENT:  
AFFIX TO THE STRUCTURE 11-12' BELOW THE COMMERCIAL RF ANTENNA(S)

## NEW RF NOTICE SIGNAGE

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

4

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

**AJM** Consulting

1931 Newport Blvd. Suite C  
Costa Mesa, CA 92627-2250  
Phone: 949-973-2380



3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

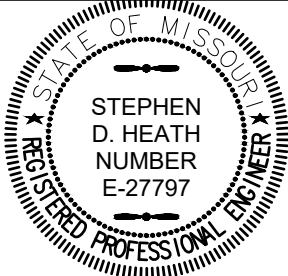
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**verizon**  
10740 NALL AVENUE  
OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE  
SUMMIT

DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

DETAILS

A-8

REV	DATE	DESCRIPTION	BY
A	04/27/2020	90% CD - FOR REVIEW	NM
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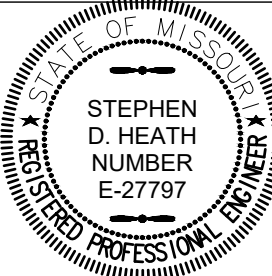
**KGP Co**  
3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

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SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
CITY ELECTRICAL  
DETAILS

E-1

CITY OF LEE'S SUMMIT  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
220 SE GREEN STREET  
LEE'S SUMMIT, MISSOURI 64063  
PHONE: (816) 969-1800 FAX: (816) 969-1809

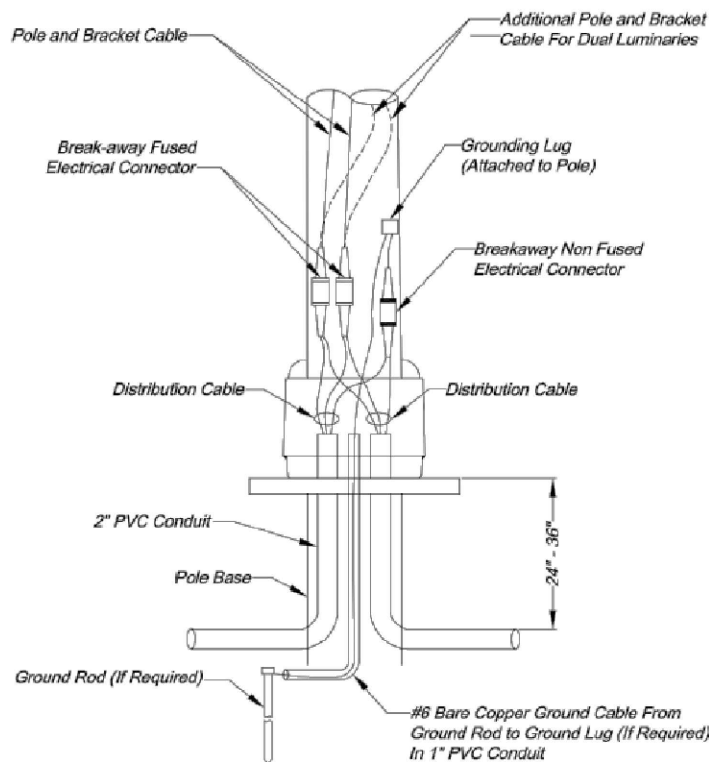


ELECTRICAL DETAILS  
STANDARD DRAWING SL-5

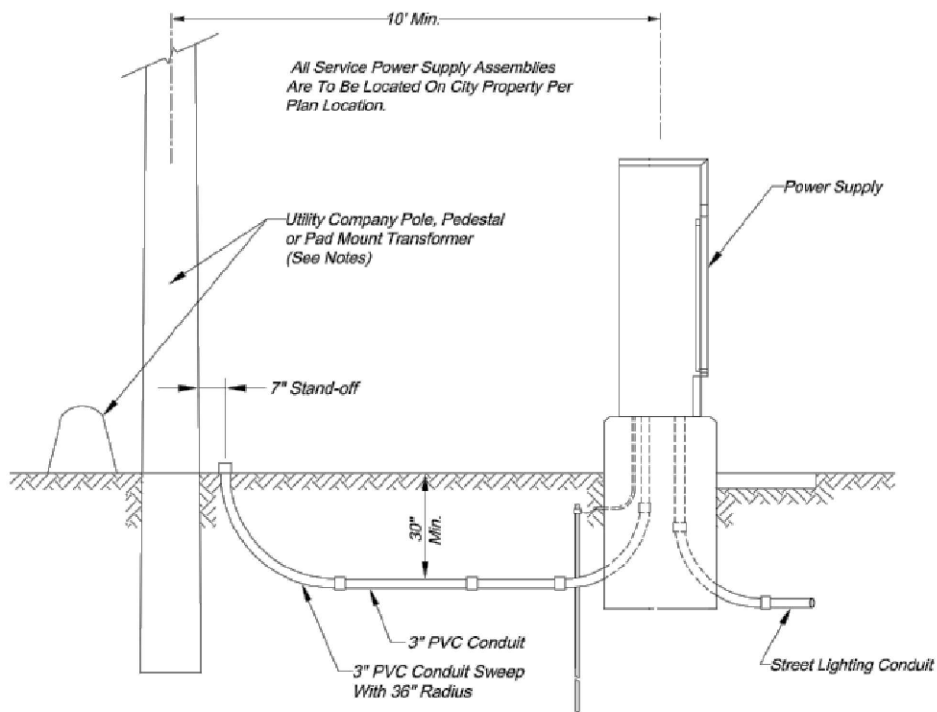
Drawn By: JH  
Checked By: JW  
Date: 08/21/2009

5 OF 5

5

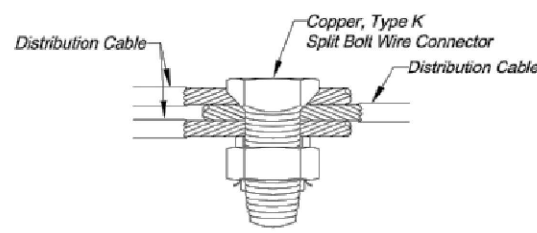


POLE WIRING DETAILS



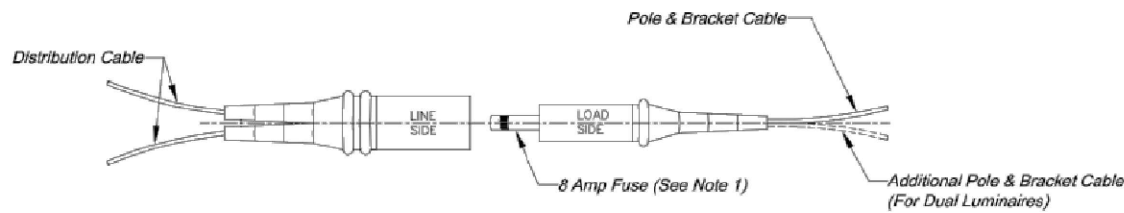
SECONDARY SERVICE CONNECTION DETAILS

- NOTES:
- Contractor shall install a conduit stub 24" to 36" above ground at utility poles. Conduit shall be stubbed to the side of the pole that will allow a direct run up the pole to the transformer without crossing other utility lines or cables. The end of the conduit shall be capped.
  - Contractor shall install conduit in a trench to within 24" of pedestals or pad mount transformers and leave a 36" x 36" x 36" access hole in the ground. Contractor shall keep open trench covered and promptly backfill access hole when service is completed.

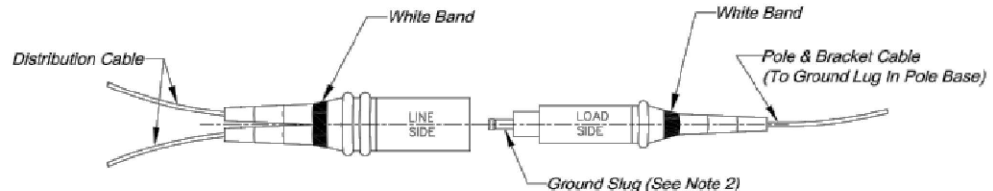


SPLICE KIT DETAILS

- NOTES:
- To be used only in junction or pull boxes where circuits branch or "tee".
  - All splices shall be protected with a resin splice kit (not shown) installed in accordance with the manufacturer's recommendations.

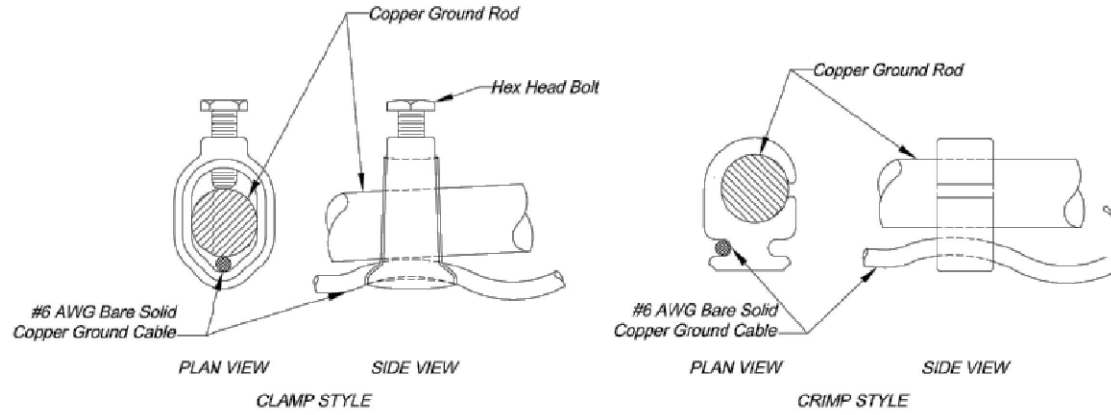


BREAK-AWAY FUSED ELECTRICAL CONNECTORS



BREAK-AWAY NON FUSED ELECTRICAL CONNECTOR

- NOTES:
- Fuse remains in "Load Side" after break-away.
  - Ground "Slug" remains in "Load Side" after break-way.
  - Connectors shall have set screw type terminals to attach cables.



GROUND ROD CONNECTION DETAILS



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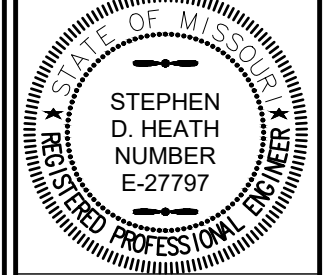
**KGPCo**  
3305 HWY 60 W, FARIBAULT, MN. 55021  
PHONE: 913.219.1065

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OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
CITY ELECTRICAL  
DETAILS

E-2

CITY OF LEE'S SUMMIT  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
220 SE GREEN STREET  
LEE'S SUMMIT, MISSOURI 64063  
PHONE: (816) 969-1800 FAX: (816) 969-1809



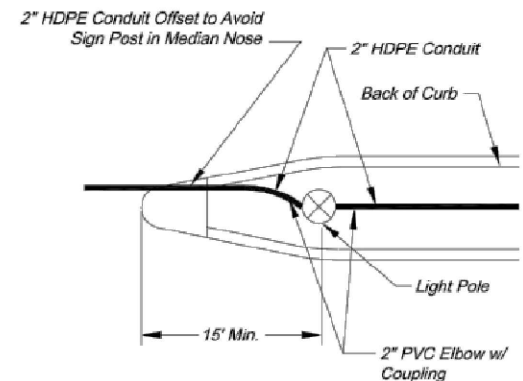
BOX AND CONDUIT DETAILS  
STANDARD DRAWING SL-3

Project:

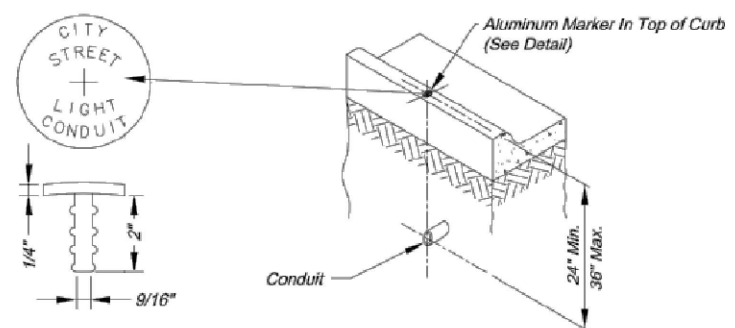
Drawn By: JH  
Checked By: JW  
Date: 08/21/2009

3 OF 5

3

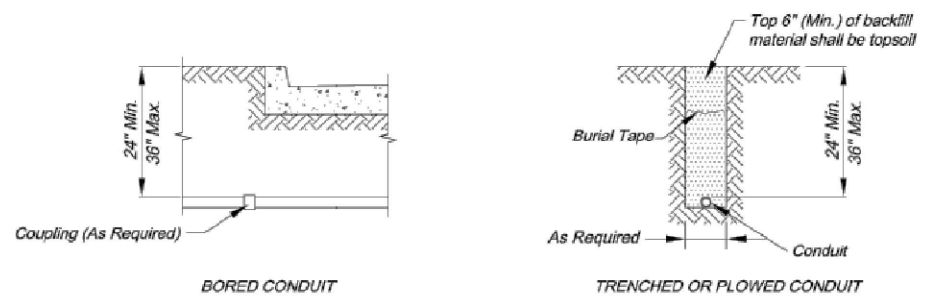


STREET LIGHT POLE  
IN MEDIAN



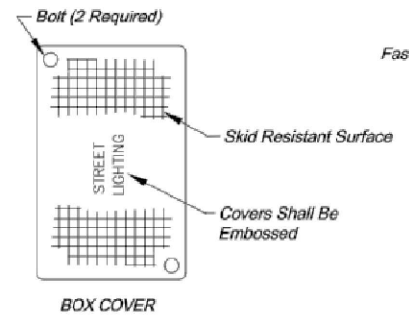
CONDUIT MARKING DETAIL

- NOTES:
1. An aluminum marker shall be placed in the top of the curb directly over the conduit.
  2. Markers shall be installed by drilling the curb and epoxying the marker in place. If installed in a sidewalk or curb ramp, the top of the marker shall be flush with the concrete surface.
  3. No direct payment shall be made for conduit markers; they are subsidiary to the installation of conduit.

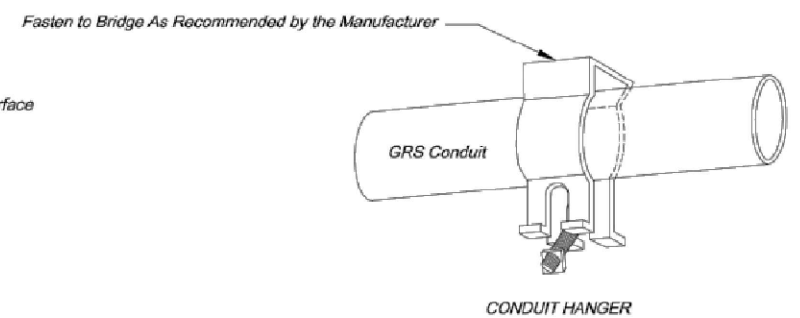


CONDUIT LOCATIONS

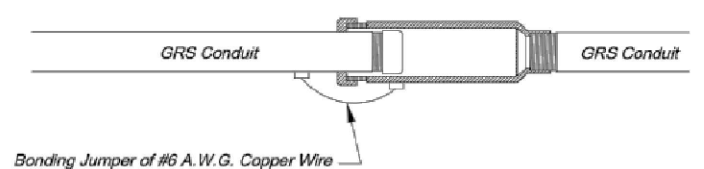
- NOTES:
1. Backfill under paved surfaces shall be flowable fill.
  2. The conduit shall not be covered unless inspected and approved by the City Engineer, so as to ensure proper depth, correct conduit material, and proper conduit end treatment.



BOX COVER



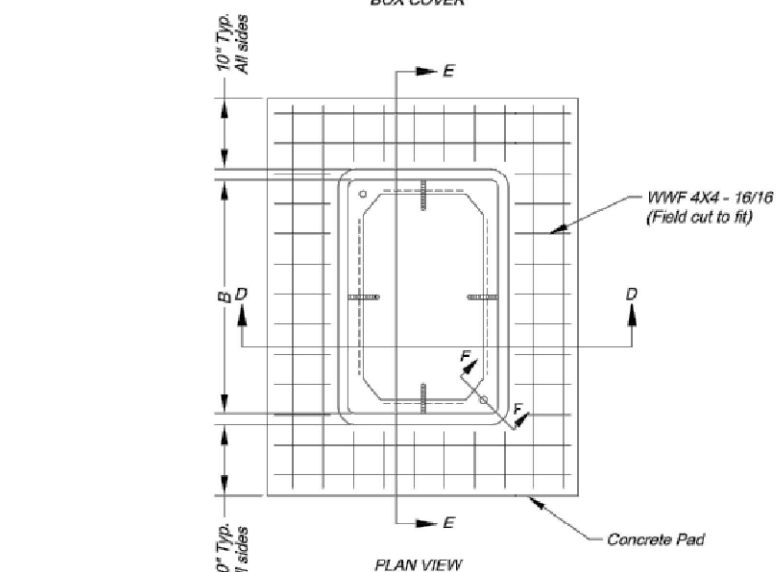
CONDUIT HANGER



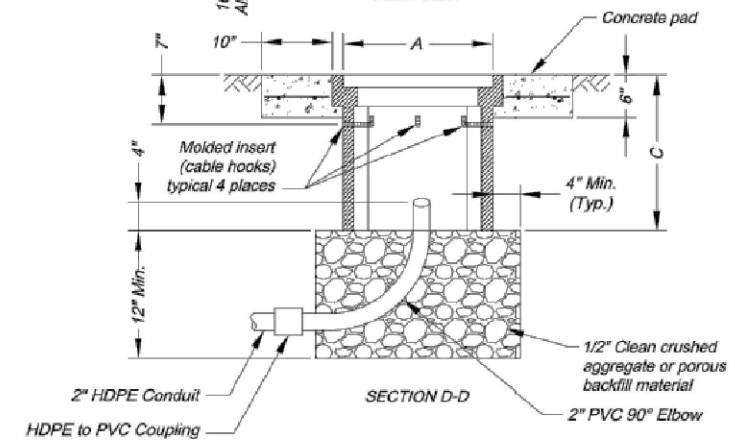
EXPANSION FITTING

GRS CONDUIT DETAILS

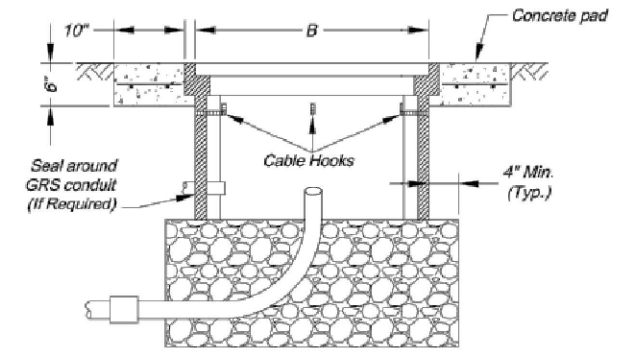
- NOTES:
1. All conduits installed above ground shall be GRS.
  2. Conduit attached to bridges shall have expansion fittings installed at each end of the bridge and at each expansion joint on the bridge.
  3. All GRS conduits shall be electrically bonded by a grounding bushing and ground wire as detailed.
  4. Install the conduit and connector assembly to permit a 1/2 inch minimum longitudinal travel in either direction.



PLAN VIEW

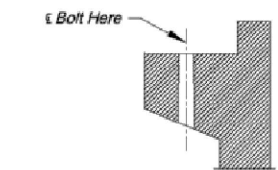


SECTION D-D



SECTION E-E

PULL OR JUNCTION BOX DETAILS



SECTION F-F

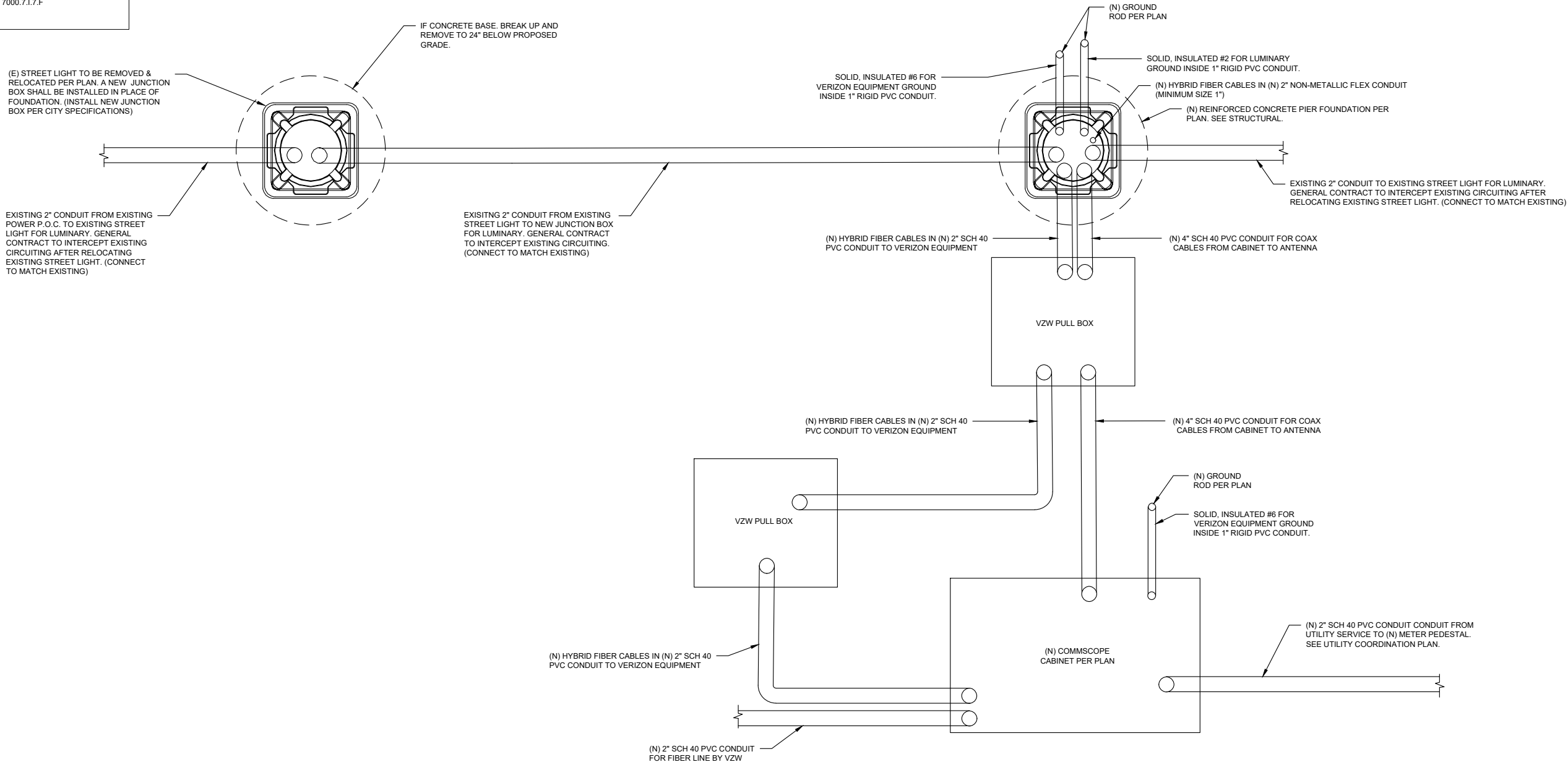
Number of Entering/Exiting Conduits	Box Type	Minimum Box Dimensions		
		A	B	C
1 - 2	Type 1 Junction Box	12"	12"	12"
3 - 4	Type 2 Junction Box	12"	18"	12"
> 4	Class 1 Pull Box	17"	30"	22"

All dimensions shown are nominal

- NOTES:
1. Lift opening required on all covers.
  2. Preformed box walls may be either flared or vertical. The bottom of boxes shall be open to below.
  3. If an extension is used with a preformed box, the lip of the extension may be interior or exterior. The extension shall be compatible and from the same manufacturer.
  4. Cable hooks are to be included with Class 1 Pull Boxes only.
  5. A Class 1 Pull Box shall be installed adjacent to each 4-Circuit Power Supply.

- CONTRACTOR NOTES:
1. NEW BREAKER BOX TO BE USED FOR EQUIPMENT SHUT OFF.
  2. EXACT EQUIPMENT LOCATION MAY BE ADJUSTED TO MEET SYSTEM REQUIREMENTS.
  3. CONTRACTOR TO FIELD VERIFY EXACT HAND HOLE LOCATION.
  4. STRUCTURAL DRAWINGS AND CALCULATIONS PROVIDED BY VERIZON WIRELESS.
  5. ALL WIRES AND CABLES FROM BASE OF POLE TO THE ANTENNA SHALL BE ROUTED IN NON-METALLIC FLEX CONDUIT. (MINIMUM SIZE 1")
  6. ALL EQUIPMENT TO MATCH EXISTING POLE FINISH. NOTE SHOULD INDICATE DUNN EDWARDS CRESTLINE (DE 6325) COLOR OR EQUIVALENT FOR REFERENCE TO MATCH EXISTING POLE FINISH AND UNPAINTED GALVANIZED PARTS, MATERIALS AND COMPONENTS SHALL REMAIN UNPAINTED TO MATCH EXISTING POLE FINISH.
  7. THE EXISTING POLE FOUNDATION SHALL BE COMPLETELY REMOVED AND BACKFILLED PER CITY STANDARDS AND SPECIFICATIONS, SECTION 7000.7.F.2.A.
  8. ALL CABLES AND WIRES SHALL BE IDENTIFIED. IDENTIFICATION TAGS SHALL BE PROVIDED IN COMPLIANCE WITH CITY STANDARDS AND SPECIFICATIONS, SECTION 7000.7.1.7.G.
  9. ALL WIRELESS PROVIDER CONDUITS SHALL BE MARKED (WITH VZN IDENTIFICATION) SIMILAR TO OR IN REFERENCE TO SHEET E-2 PER CITY STANDARDS AND SPECIFICATIONS, SECTION 7000.7.1.7.F

- NOTE:
1. ALL STREETLIGHT CONDUCTORS SHALL BE TAGGED WITH A LABEL READING "STREETLIGHT". ALL STREETLIGHT CONDUCTORS SHALL BE TAGGED WITH A LABEL READING "STREETLIGHT"
  2. ALL CONDUCTORS (AC OR DC) IN THE POLE OR RACEWAY SHALL HAVE AN INSULATION RATING EQUAL TO AT LEAST THE MAXIMUM CIRCUIT VOLTAGE APPLIED OR SHALL BE PHYSICALLY SEPARATED BY LISTED MEANS.
  3. ALL LIGHTS ON BRANCH CIRCUIT ARE TO REMAIN OPERATIONAL DURING CONSTRUCTION
  4. THE EXISTING POLE FOUNDATION SHALL BE COMPLETELY REMOVED AND BACKFILLED PER CITY STANDARDS AND SPECIFICATIONS, SECTION 7000.7.F.2.A



REVISIONS			
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**KGPCo**  
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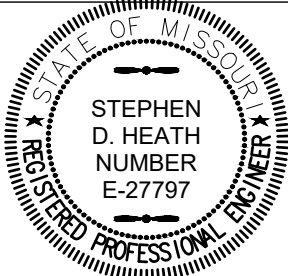
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SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

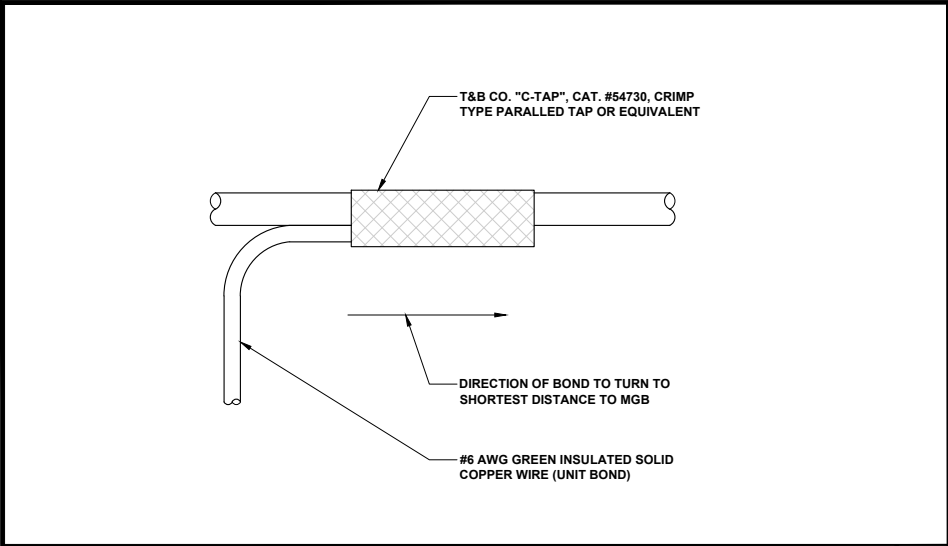
**KCYC LEE  
SUMMIT  
DOUGLAS - A**  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

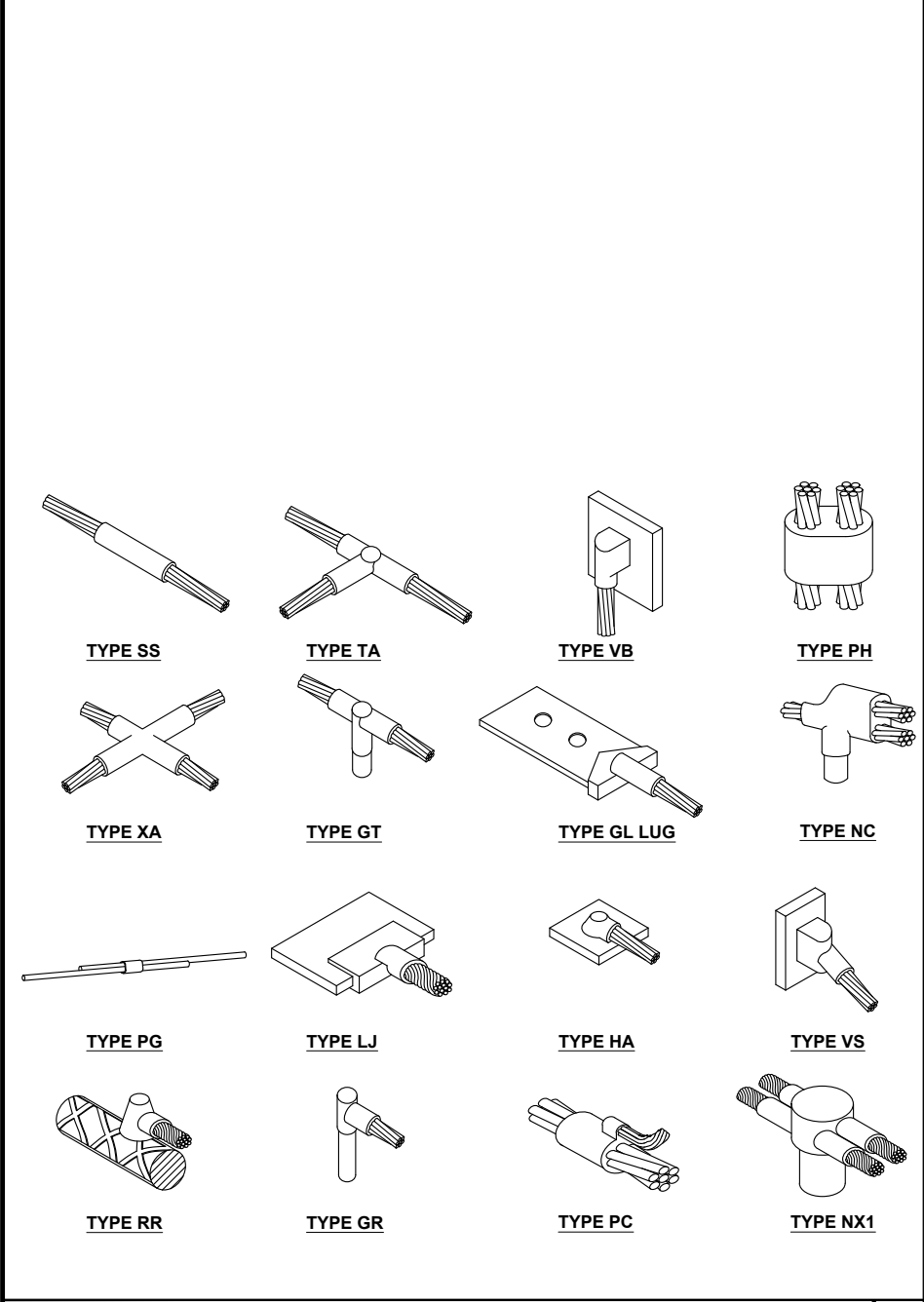
**STREET LIGHT  
CIRCUIT PLAN**

**E-3**

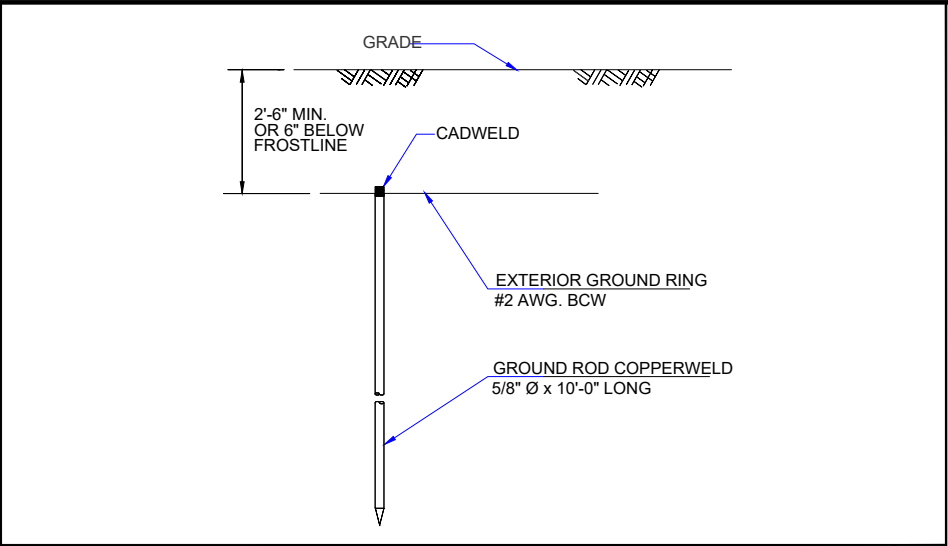




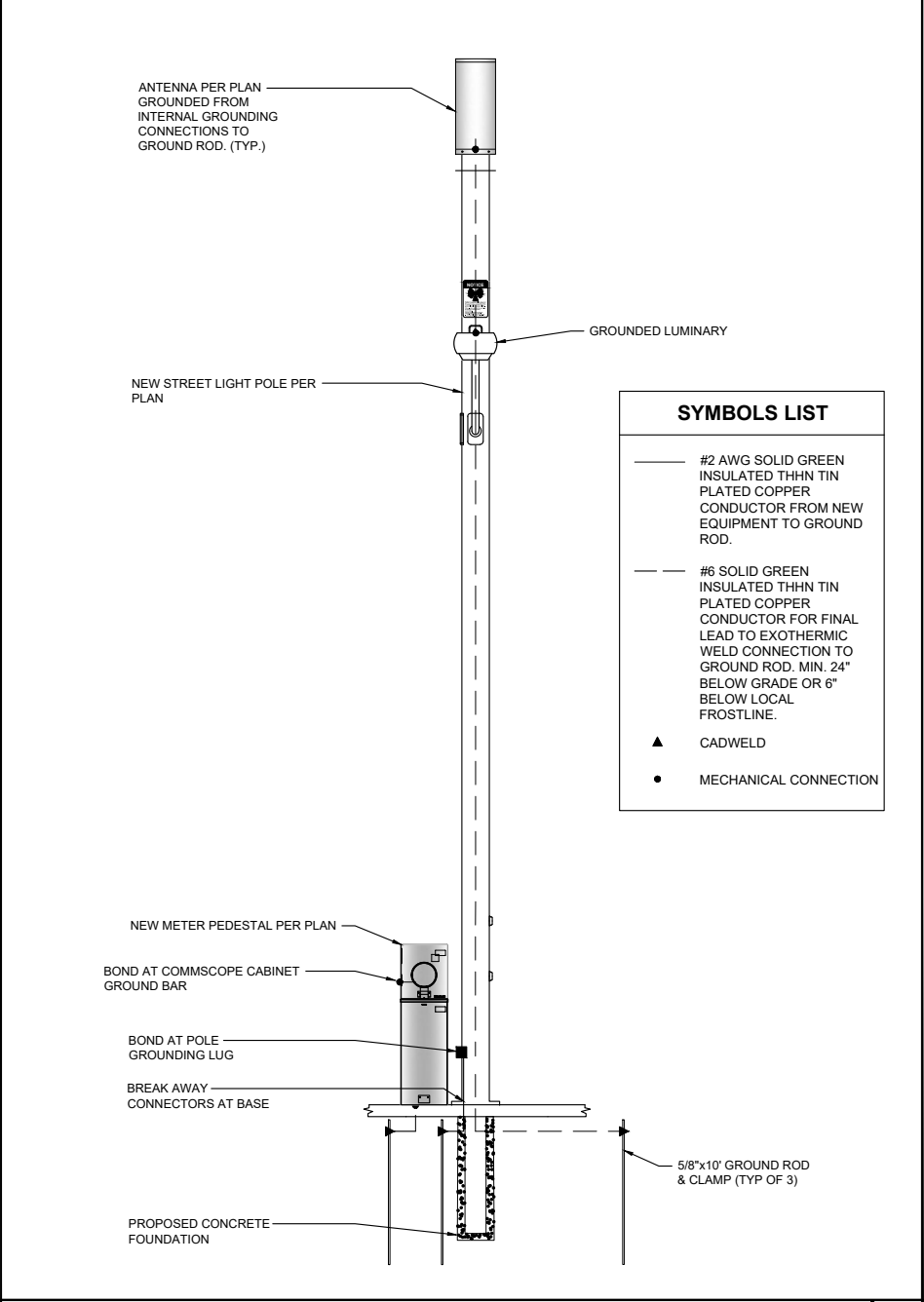
**GROUNDING WIRE CONNECTION** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **1**



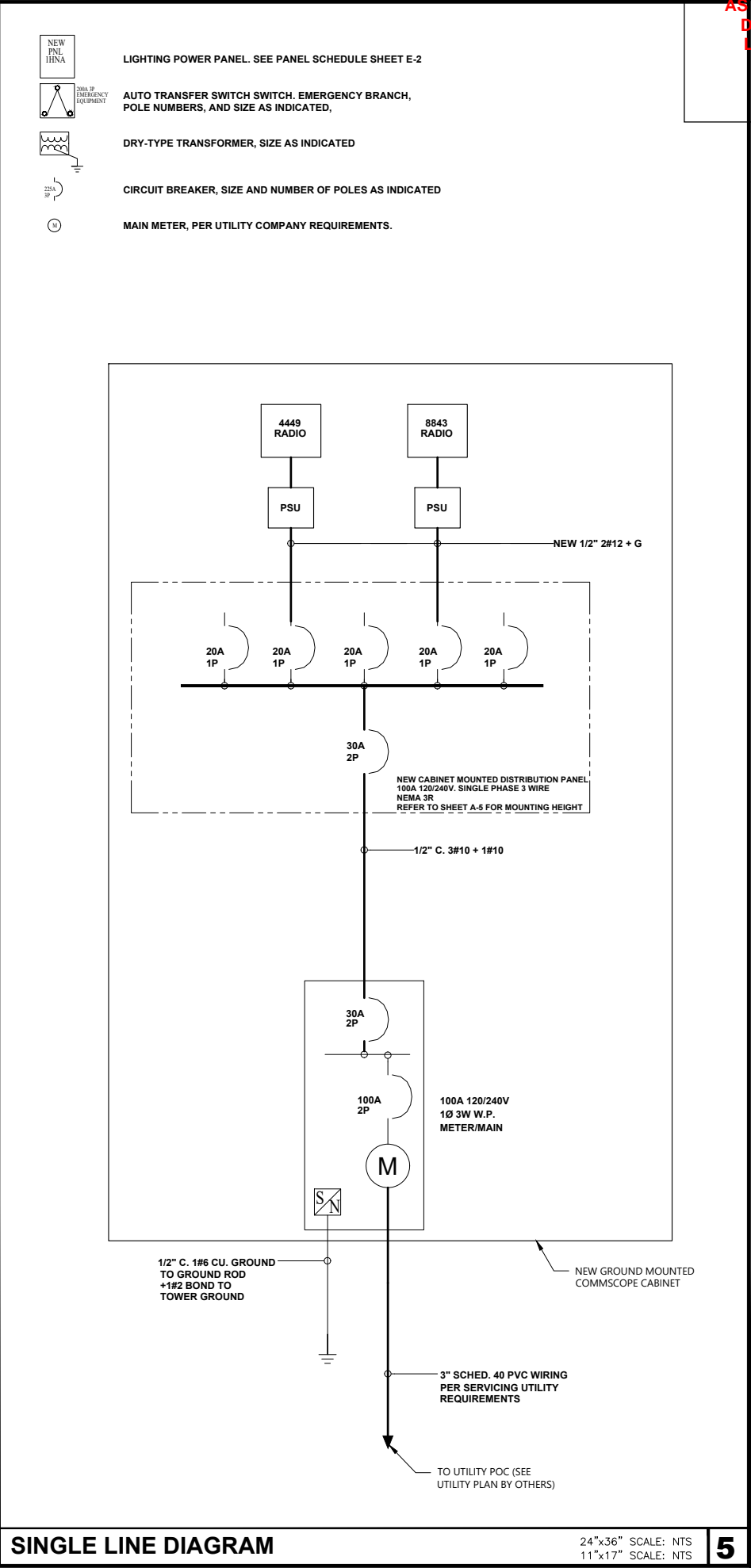
**TYPICAL CADWELD TYPES** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**



**GROUND ROD DETAIL** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **3**



**TYPICAL GROUNDING DIAGRAM** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4**



**SINGLE LINE DIAGRAM** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **5**

RELEASE FOR CONSTRUCTION

AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

ISSUE STATUS

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SMALL CELL PROJECT

PRELIMINARY

STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
STEPHEN D. HEATH  
NUMBER E-27797

DATE: 04-27-2020

KCYC LEE SUMMIT DOUGLAS - A

LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

SINGLE LINE DIAGRAM & GROUNDING

E-4





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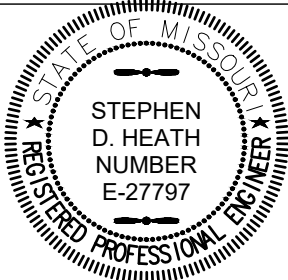
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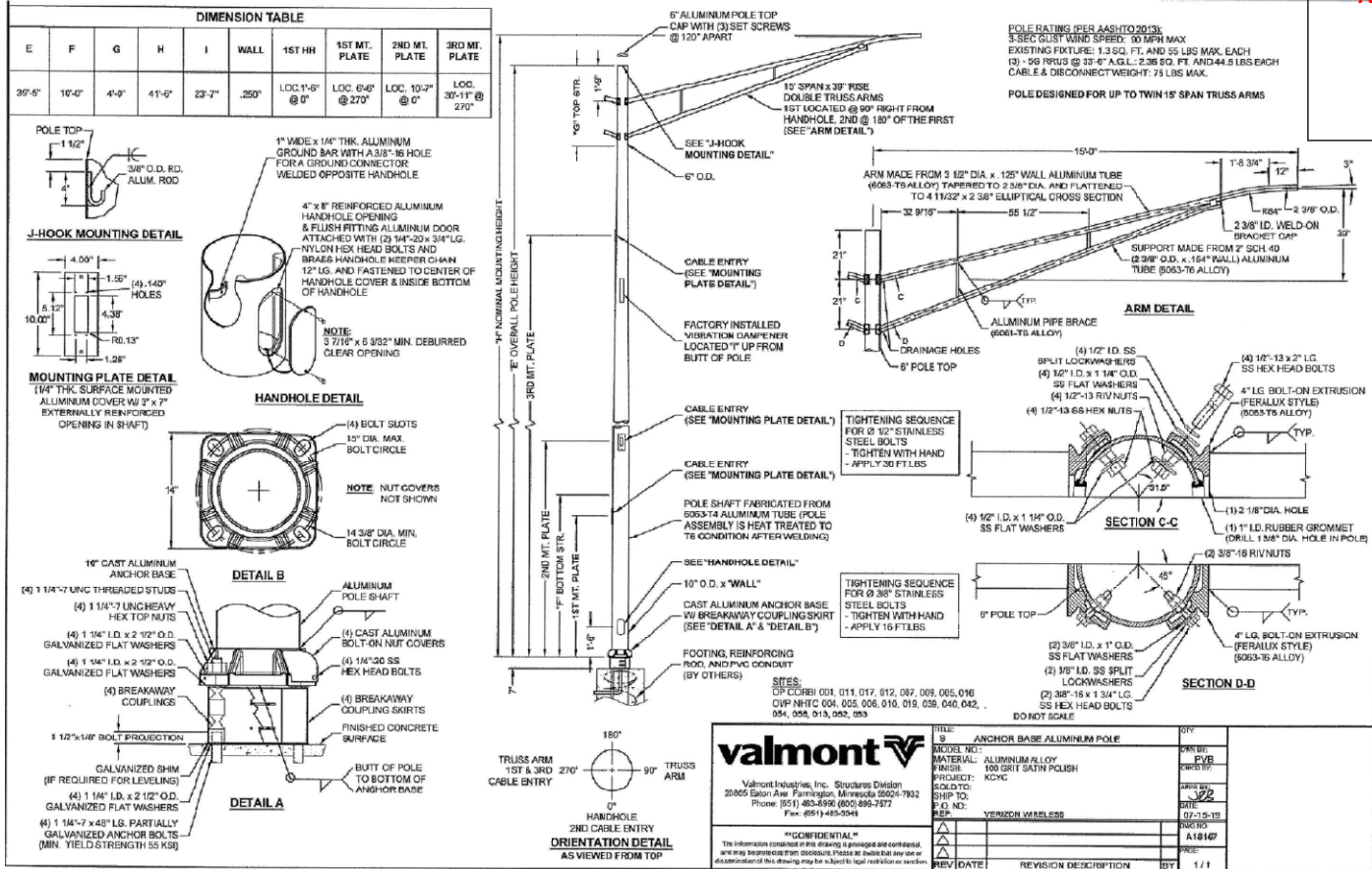
KCYC LEE  
SUMMIT

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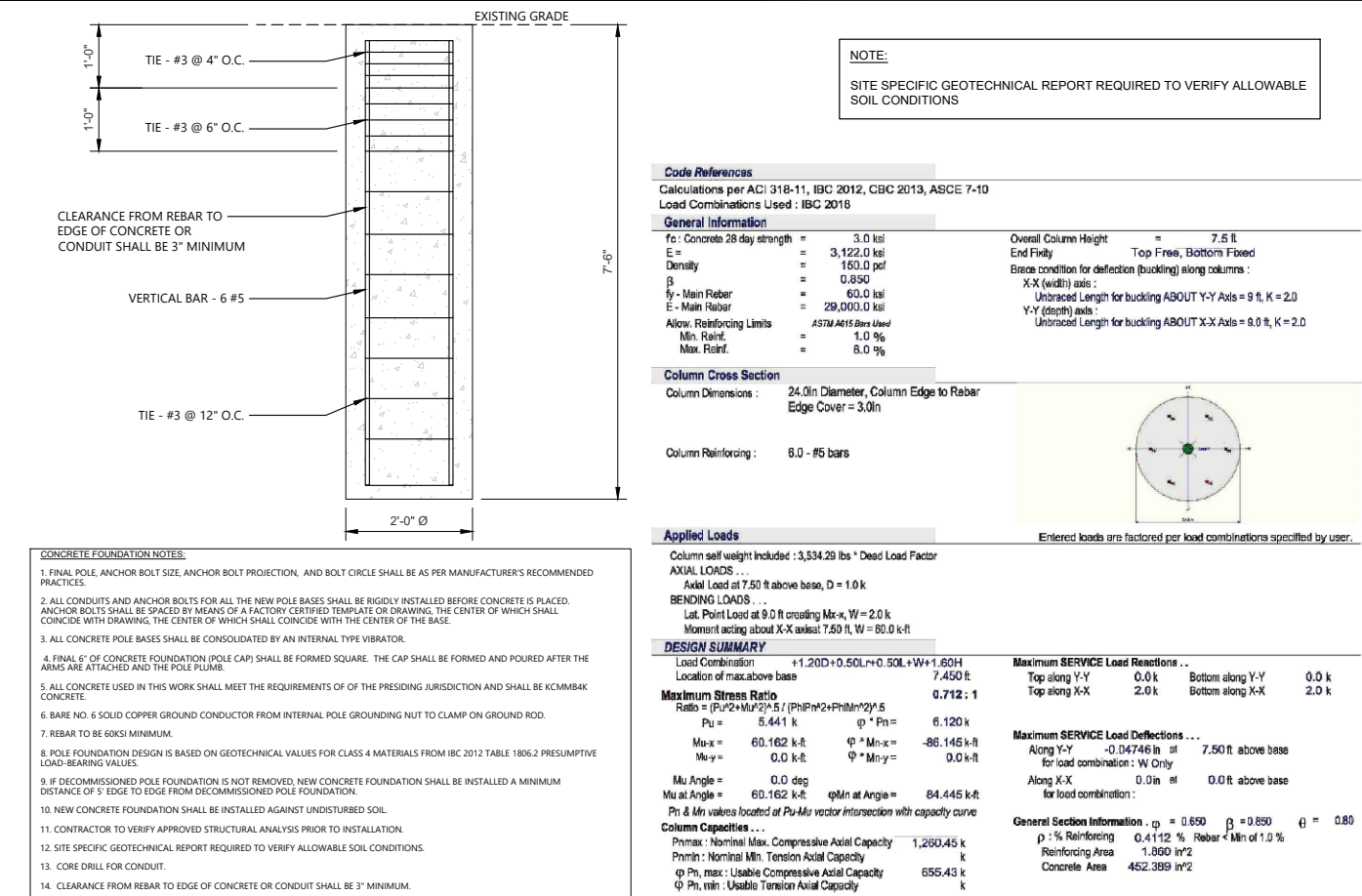
SHEET TITLE:

STRUCTURAL DETAILS

S-1



NEW VALMONT POLE



FOUNDATION DETAIL

NOT USED

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

1

FOUNDATION DETAILS

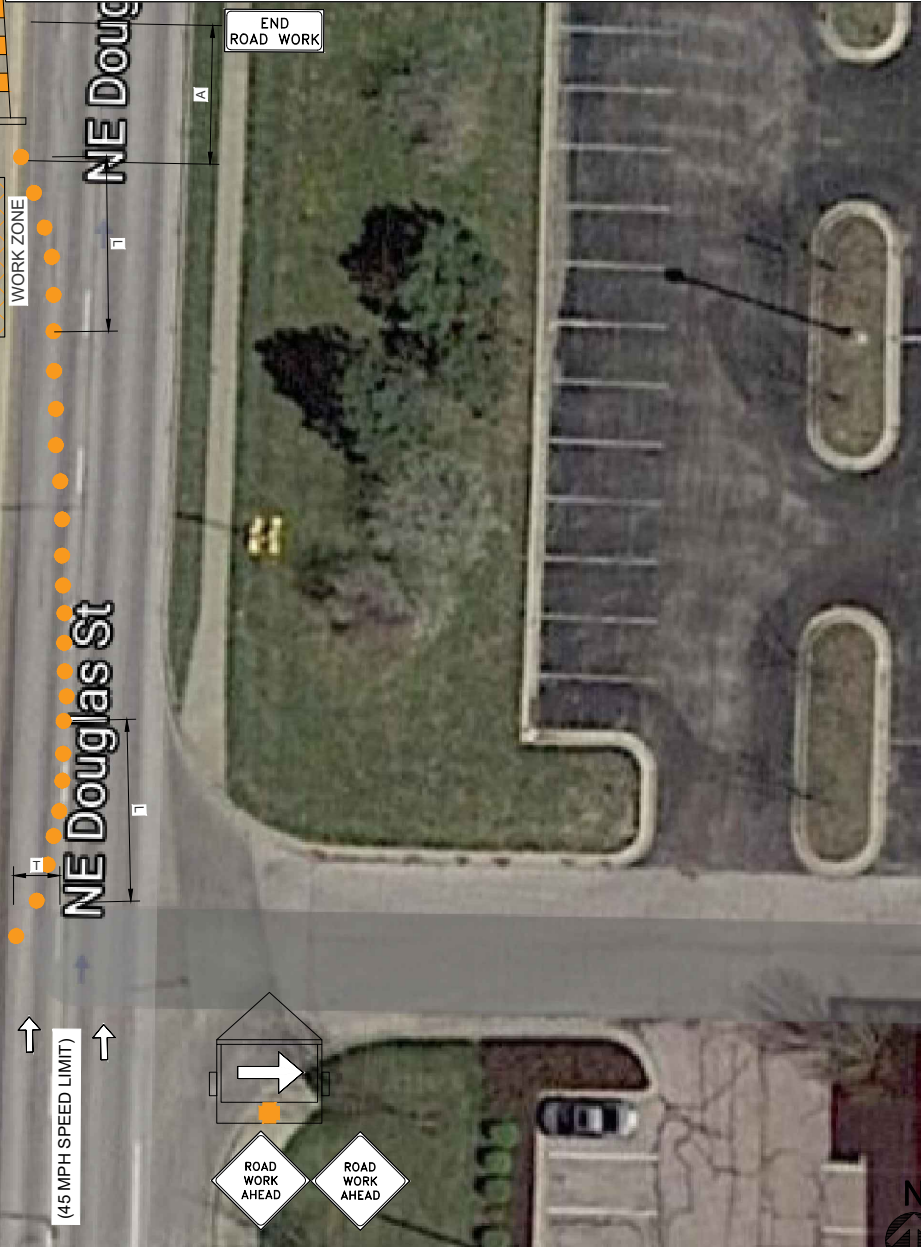
24"x36" SCALE: NTS  
11"x17" SCALE: NTS

3





SUGGESTED ADVANCE WARNING SIGN SPACING (TABLE 6H-3 OF TMUTCD)		MERGING TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES (TABLE 6H-4 OF TMUTCD)				
POSTED SPEED	SUGGESTED SIGN SPACING (A)	MINIMUM DESIRABLE TAPER LENGTHS			SUGGESTED MAX SPACING OF CHANNELIZING DEVICES	
		TAPER (L) 10' LANE OFFSET	TAPER (L) 11' LANE OFFSET	TAPER (L) 12' LANE OFFSET	ON A TAPER (T)	ON A TANGENT (T)
25 MPH	100 FEET	150 FEET	165 FEET	180 FEET	30 FEET	60 FEET
30 MPH OR LESS	120 FEET	150 FEET	165 FEET	180 FEET	30 FEET	60 FEET
35 MPH	160 FEET	205 FEET	225 FEET	245 FEET	35 FEET	70 FEET
40 MPH	240 FEET	265 FEET	295 FEET	320 FEET	40 FEET	80 FEET
45 MPH	320 FEET	450 FEET	495 FEET	540 FEET	45 FEET	90 FEET
50 MPH	400 FEET	500 FEET	550 FEET	600 FEET	50 FEET	100 FEET
55 MPH	500 FEET	550 FEET	605 FEET	660 FEET	55 FEET	110 FEET
60 MPH	600 FEET	600 FEET	660 FEET	720 FEET	60 FEET	120 FEET
65 MPH	700 FEET	650 FEET	715 FEET	780 FEET	65 FEET	130 FEET
70 MPH	800 FEET	700 FEET	770 FEET	840 FEET	70 FEET	140 FEET
75 MPH	900 FEET	750 FEET	825 FEET	900 FEET	75 FEET	150 FEET
80 MPH	1,000 FEET	800 FEET	880 FEET	960 FEET	80 FEET	160 FEET



## GENERAL NOTES

THIS IS NOT A SITE SURVEY:  
ALL PROPERTY BOUNDARIES, ORIENTATION OF TRUE NORTH AND STREET HALF-WIDTHS ARE APPROXIMATE. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION.

UNDERGROUND UTILITIES:  
EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.

### CONTRACTOR NOTES:

- REFER TO AND COMPLY WITH ALL JURISDICTIONAL CODES AND REQUIREMENTS.
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- VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.
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- IF EXISTING CONDITIONS VARY FROM THE DRAWINGS THEN CONTRACTOR SHALL COMPLY WITH THE SPECIFIC "TYPICAL APPLICATION" AS NOTED IN JURISDICTIONAL REQUIREMENTS.

## LEGEND

①  48 X 48	②  48 X 24	③  48 X 48	④  48 X 48
⑤  48 X 48	⑥  36 X 36	⑦  48 X 48	⑧  48 X 36
⑨  48 X 48	⑩  48 X 48	⑪  48 X 48	⑫  48 X 36
⑬  48 X 48	⑭  48 X 48	⑮  48 X 48	⑯  48 X 48
⑰  48 X 48	⑱  48 X 48	⑲  48 X 48	⑳  48 X 48
⑳  48 X 48			

FOR  
CONSTRUCTION

AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI

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SMALL CELL PROJECT

PRELIMINARY  
STATE OF MISSOURI  
STEPHEN D. HEATH  
NUMBER E-27797  
REGISTERED PROFESSIONAL ENGINEER

DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
TRAFFIC CONTROL  
PLAN

**TCP-1**



TRAFFIC CONTROL GENERAL NOTES

- ALL CHANNELIZING DEVICES SHALL BE IN ACCORDANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL TRAFFIC CONTROL DEVICES SHALL HAVE WORKING VISIBLE WARNING LIGHTS AS REQUIRED IN ACCORDANCE WITH THE 2009 EDITION OF MUTCD.
- FOR TEMPORARY SITUATIONS, WHEN IT IS NOT FEASIBLE TO REMOVE AND RESTORE PAVEMENT MARKINGS, CHANNELIZATION MUST BE MADE DOMINANT BY USING A VERY CLOSE DEVICE SPACING. THIS IS ESPECIALLY IMPORTANT IN LOCATIONS OF CONFLICTING INFORMATION, SUCH AS WHERE TRAFFIC IS DIRECTED OVER A DOUBLE YELLOW CENTERLINE. IN SUCH LOCATIONS, CHANNELIZING DEVICE SPACING OF 10 FEET IS REQUIRED.
- FOR LONG TERM STATIONARY WORK, ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED AND CENTERLINE STRIPING PROVIDED WHERE TWO WAY TRAFFIC IS IN ADJACENT LANES.
- CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURE, CROSSWALK CLOSURE AND/OR WALKWAY BYPASS WHEREVER PEDESTRIAN MOVEMENTS ARE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL SIDEWALKS AND CROSSWALKS SHALL BE ACCESSIBLE WHEN CONTRACTOR IS NOT WORKING UNLESS OTHERWISE APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE USE OF TRAILER MOUNTED ARROW DISPLAYS MAY BE REQUIRED ON ALL LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE ONE(1) STAND-BY UNIT IN GOOD WORKING CONDITION AT THE JOB SITE, READY FOR USE, IF HIS OPERATION REQUIRES 24-HOUR A DAY CLOSURE SET-UPS AND IF REQUIRED.
- CITY TRAFFIC ENGINEER AND/OR INSPECTORS MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DEVICES.
- EXTEND CHANNELIZATION DEVICES INTO SHOULDER WHERE APPLICABLE.
- DISTANCES NOTES IN PLAN SHOULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING.
- MAINTAIN A MINIMUM LANE WIDTH OF 10'.
- FLAGGERS SHALL BE IN CONSTANT RADIO CONTACT.
- NO CONGREGATING AROUND FLAGGER STATIONS.
- CONTRACTOR TO VERIFY POSTED SPEED LIMIT.
- THE SIDEWALK ON SIDE WHERE WORK WILL BE DONE SHALL BE CLOSED TO PEDESTRIANS DURING CONSTRUCTION.
- ALL TEMPORARY TRAFFIC CONTROL SIGNAGE, LAYOUTS AND PROCEDURES SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS AND THE LATEST EDITION OF MUTCD, WHICHEVER IS MORE STRINGENT.
- PRIOR TO ANY CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
- TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS. SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.
- TAPER SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.
- THERE SHALL BE NO WORKERS, EQUIPMENT, OR OTHER VEHICLE IN THE BUFFER SPACE OR THE ROLL AHEAD SPACE.
- DRIVEWAYS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-1 SIGN (UTILITY WORK AHEAD) AS A MINIMUM.
- CONES MAY BE SUBSTITUTED FOR BARRELS/DRUMS AND INSTALLED UPON THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION PROVIDED THEY COMPLY WITH MUTCD.
- FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTER LINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.
- CONTRACTOR TO COMPLY WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(MUTCD)
- FAILURE TO COMPLY WITH ALL ITEMS LISTED ABOVE WILL RESULT IN A \$500/DAY FINE.
- PLACE VEHICLE IN BETWEEN AERIAL LIFT/TOW-BEHIND AND THE ONCOMING TRAFFIC.

FIGURE 6F-1. HEIGHT AND LATERAL LOCATION OF SIGNS

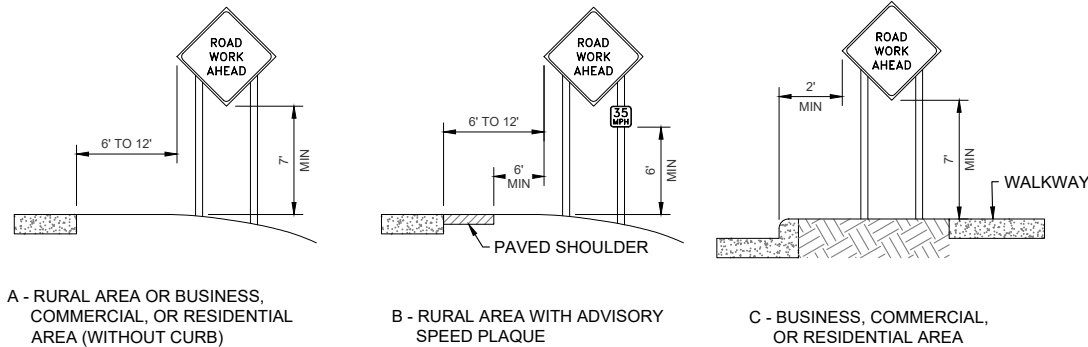
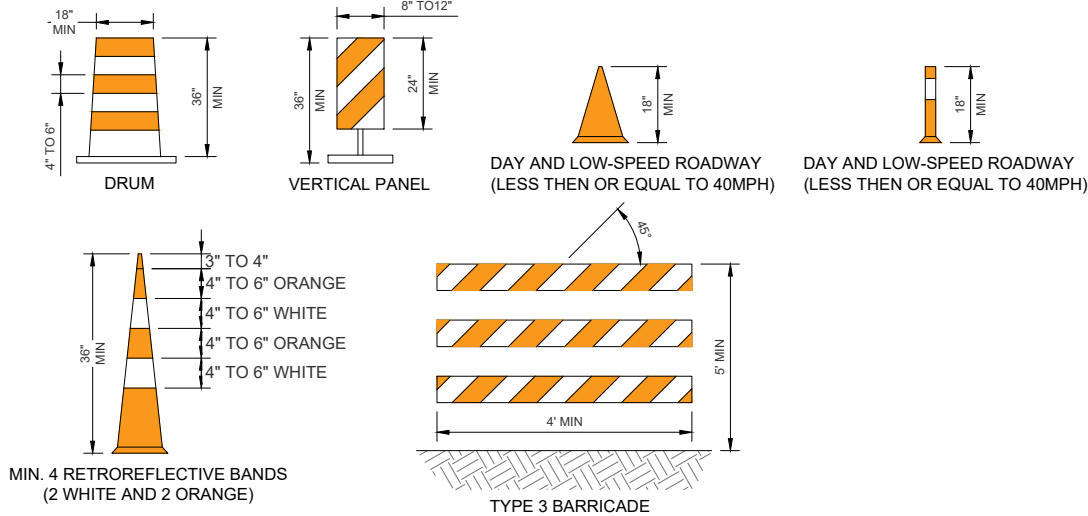


FIGURE 6F-7. CHANNELIZING DEVICES



FOR  
CONSTRUCTION

AS NOTED ON PLANS REVIEW  
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LEE'S SUMMIT, MISSOURI

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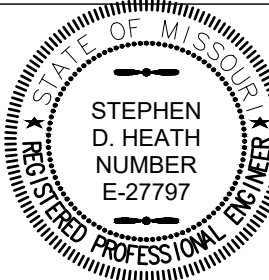
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SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE  
SUMMIT

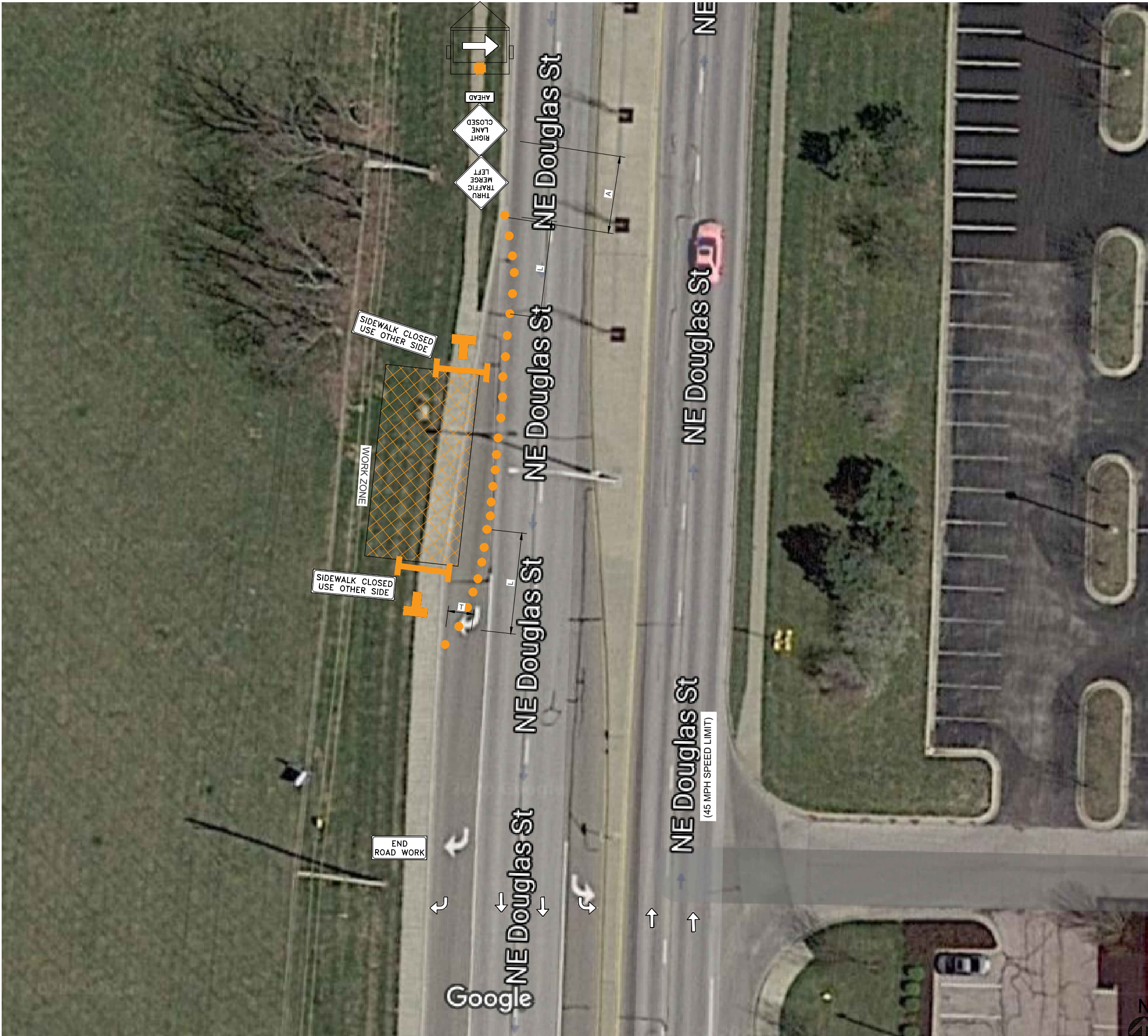
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LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:

TRAFFIC CONTROL  
PLAN

TCP-2





PEDESTRIAN CONTROL PLAN

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

1

GENERAL NOTES






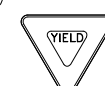



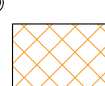

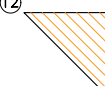




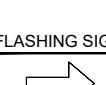


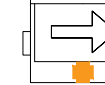
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LEGEND

①  ROAD WORK AHEAD 48 X 48	②  END ROAD WORK 48 X 24	③  RIGHT LANE CLOSED AHEAD 48 X 48	④  CENTER LANE CLOSED AHEAD 48 X 48
⑤  SHOULDER WORK 48 X 48	⑥  YIELD 36 X 36	⑦  THRU TRAFFIC MERGE LEFT 48 X 48	⑧  SIDEWALK CLOSED USE OTHER SIDE 48 X 36
⑨  THRU TRAFFIC MERGE LEFT 48 X 48	⑩  WORK ZONE 48 X 48	⑪  PLASTIC DRUM 48 X 48	⑫  VISIBILITY TRIANGLE 48 X 36
⑬  SIGN 48 X 48	⑭  PLASTIC DRUM 48 X 48	⑮  BARRICADE 48 X 48	⑯  FLAGGER 48 X 48
⑰  FLASHING SIGN 48 X 48	⑱  HEAVY WORK VEHICLE 48 X 48	⑲  TRUCK MOUNTED ATTENUATOR (TMA) 48 X 48	⑳  TRAILER MOUNTED FLASHING ARROW BOARD 48 X 48

2

RELEASE FOR  
CONSTRUCTION

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LEE'S SUMMIT, MISSOURI

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**verizon**  
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OVERLAND PARK, KS. 66211  
PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY  
STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
STEPHEN D. HEATH  
NUMBER E-27797

DATE: 04-27-2020

KCYC LEE  
SUMMIT  
DOUGLAS - A  
LEES SUMMIT - STREET LIGHT  
NE DOUGLAS RD  
LEES SUMMIT, MO 64086

SHEET TITLE:  
PEDESTRIAN CONTROL PLAN

PCP-1