

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

ISSUE STATUS			
REV	DATE	DESCRIPTION	BY
A	04/27/2020	90% CD - FOR REVIEW	NM
B	06/29/2020	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



PROPRIETARY INFORMATION
THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS
ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED



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:
TITLE SHEET

T-1

PROJECT SUMMARY		VICINITY MAP		PROJECT TEAM		SHEET	DESCRIPTION
<div>APPLICANT/LESSEE</div> <div>verizon</div> <div>10740 NALL AVENUE OVERLAND PARK, KS 66211</div> <div>APPLICANT'S REPRESENTATIVE:</div> <div>NAME: KPGco ADDRESS: 3305 HWY 60 W, FARIBAULT MN 55021 CONTACT: NIKKI GAST PHONE: 816.266.2378 EMAIL: nikki.gast@kgpco.com</div> <div>CONSTRUCTION INFORMATION:</div> <div>AREA OF CONSTRUCTION: N/A JURISDICTION: LEES SUMMIT COUNTY: JACKSON COUNTY ZONING: PUBLIC R.O.W. OCCUPANCY: N/A TYPE OF CONSTRUCTION: N/A</div> <div>ACCESSIBILITY REQUIREMENTS:</div> <div>FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED.</div>		<div>PROPERTY INFORMATION:</div> <div>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</div> <div>UTILITY COMPANY:</div> <div>EVERGY 4400 E FRONT ST KANSAS CITY, MO 64120 PHONE: 816-732-4160</div> <div>PROPERTY LOCATION:</div> <div>PUBLIC RIGHT-OF-WAY</div>		<div>APPLICANT AGENT:</div> <div>NAME: KPGco ADDRESS: 3305 HWY 60 W, FARIBAULT MN 55021 CONTACT: NIKKI GAST PHONE: 816.266.2378 EMAIL: nikki.gast@kgpco.com</div> <div>ENGINEER:</div> <div>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</div> <div>POLE OWNER:</div> <div>NAME: LEE'S SUMMIT, MISSOURI</div> <div>AJM MANAGER:</div> <div>NAME: NOEL MAXEY PHONE: (949) 973-2380</div> <div>PROPERTY OWNER:</div> <div>LEE'S SUMMIT, MISSOURI PUBLIC R.O.W. CONTACT: MICHAEL PARK PHONE: 816-969-1820</div> <div>STRUCTURAL ENGINEER:</div> <div>PROVIDED BY: VALMONT ADDRESS: 12661 CORRAL PL, SANTA FE SPRINGS, CA 90670</div>		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	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
UNDERGROUND LOCATES				CONFIDENTIAL AND PROPRIETARY			
<div>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</div>				GENERAL CONTRACTOR NOTES			SCOPE OF WORK
				DO NOT SCALE DRAWINGS IF NOT FULL SIZE (24 X 36)			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.
APPROVALS		DRIVING DIRECTIONS		CODE COMPLIANCE			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.
<div>VERIZON PM</div> <div>DATE</div> <div>CITY</div> <div>DATE</div> <div>APPLICANT</div> <div>DATE</div> <div>PROPERTY OWNER</div> <div>DATE</div>		<div>FROM: KANSAS CITY INTERNATIONAL AIRPORT</div> <div>1. HEAD SOUTHWEST ON COOKINGHAM DR TOWARD INTERNATIONAL CIR</div> <div>2. CONTINUE STRAIGHT ONTO INTERNATIONAL CIR</div> <div>3. KEEP RIGHT TO CONTINUE ON COOKINGHAM DR</div> <div>4. CONTINUE ONTO NW 120TH ST</div> <div>5. USE THE RIGHT 2 LANES TO MERGE ONTO I-29 S/US-71 S VIA THE RAMP TO KANSAS CITY</div> <div>6. MERGE ONTO I-29 S/US-71 S</div> <div>7. KEEP LEFT TO CONTINUE ON US-71, FOLLOW SIGNS FOR INTERSTATE 70 E/U.S. 40 E/SAINT LOUIS</div> <div>8. CONTINUE ONTO I-70 E/US-71 S</div> <div>9. KEEP LEFT AT THE FORK TO CONTINUE ON I-70 E/US-40 E, FOLLOW SIGNS FOR ST LOUIS</div> <div>10. TAKE EXIT 15A TO MERGE ONTO I-470 S/MO-291 S TOWARD LEE'S SUMMIT</div> <div>11. TAKE EXIT 9 FOR DOUGLAS ST</div> <div>12. USE ANY LANE TO TURN LEFT ONTO NE DOUGLAS ST</div> <div>13. POLE # 5G09 2-2 WILL BE ON THE LEFT.</div>		<div>ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CODES AS ADOPTED BY THE LOCAL JURISDICTION:</div> <div>- INTERNATIONAL BUILDING CODE (2018)</div> <div>- INTERNATIONAL MECHANICAL CODE (2018)</div> <div>- NATIONAL ELECTRIC CODE (2017)</div> <div>- INTERNATIONAL FIRE CODE (2018)</div> <div>- NATIONAL ELECTRIC SAFETY CODE (NEC)</div> <div>- NATIONAL FIRE PROTECTION AGENCY (NFPA) 70</div> <div>- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 6TH EDITION.</div> <div>- AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND ANY SUPPLEMENTAL CHANGES.</div> <div>- AMERICAN WITH DISABILITIES ACT (ADA) OF 1990.</div> <div>- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES STANDARD.</div> <div>- EVERGY, ELECTRICAL SERVICE STANDARD (LATEST EDITION)</div> <div>- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) OF 1970</div> <div>- NATIONAL FIRE PROTECTION AGENCY (NFPA) 70E, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE (LATEST EDITION)</div> <div>- SECTION 9.5 - INTERSECTION SIGHT DISTANCE, IN THE AASHTO GREEN BOOK, 6TH EDITION.</div>			

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.

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Consulting

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PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS

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

verizon

10740 NALL AVENUE
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:

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

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AJM

Consulting

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Phone: 949-973-2380



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

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS

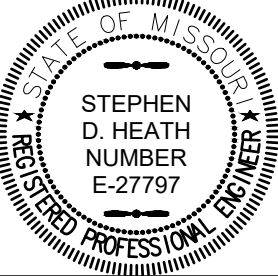
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OVERLAND PARK, KS. 66211
PHONE: 800-264-6620

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

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

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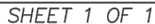
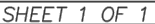


STATE OF MISSOURI
★ REGISTERED PROFESSIONAL ENGINEER ★
STEPHEN
D. HEATH
NUMBER
E-27797

KCYC LEE
SUMMIT

SHEET TITLE:

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



Foreman:

Built as designed: YES / NO

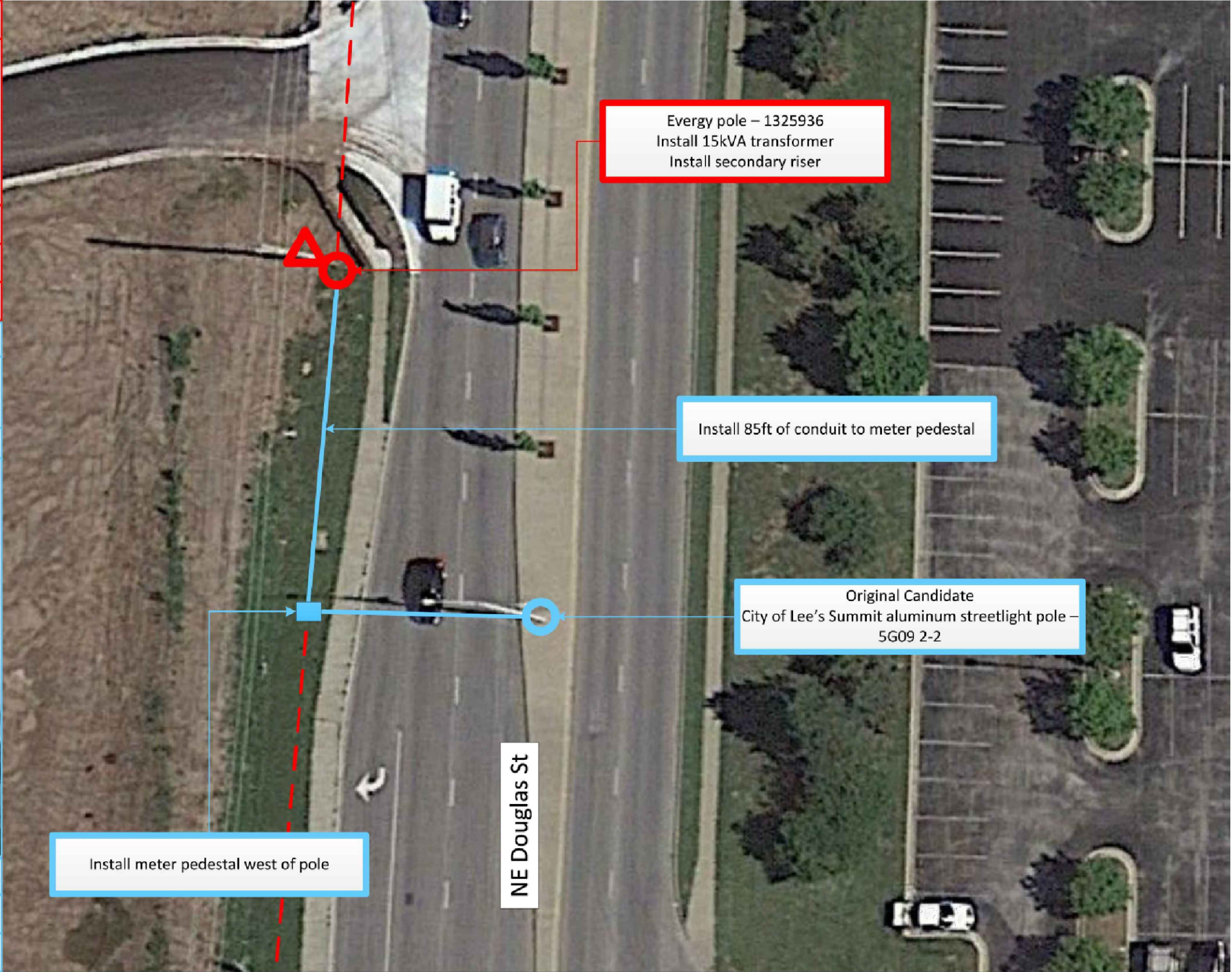
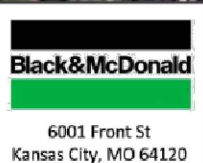
Date: Initials:

- 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



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Phone: 949-973-2380

KGPCo

3305 HWY 60 W, FARIBAULT, MN. 55021
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PROPRIETARY INFORMATION

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

SMALL CELL PROJECT

PRELIMINARY

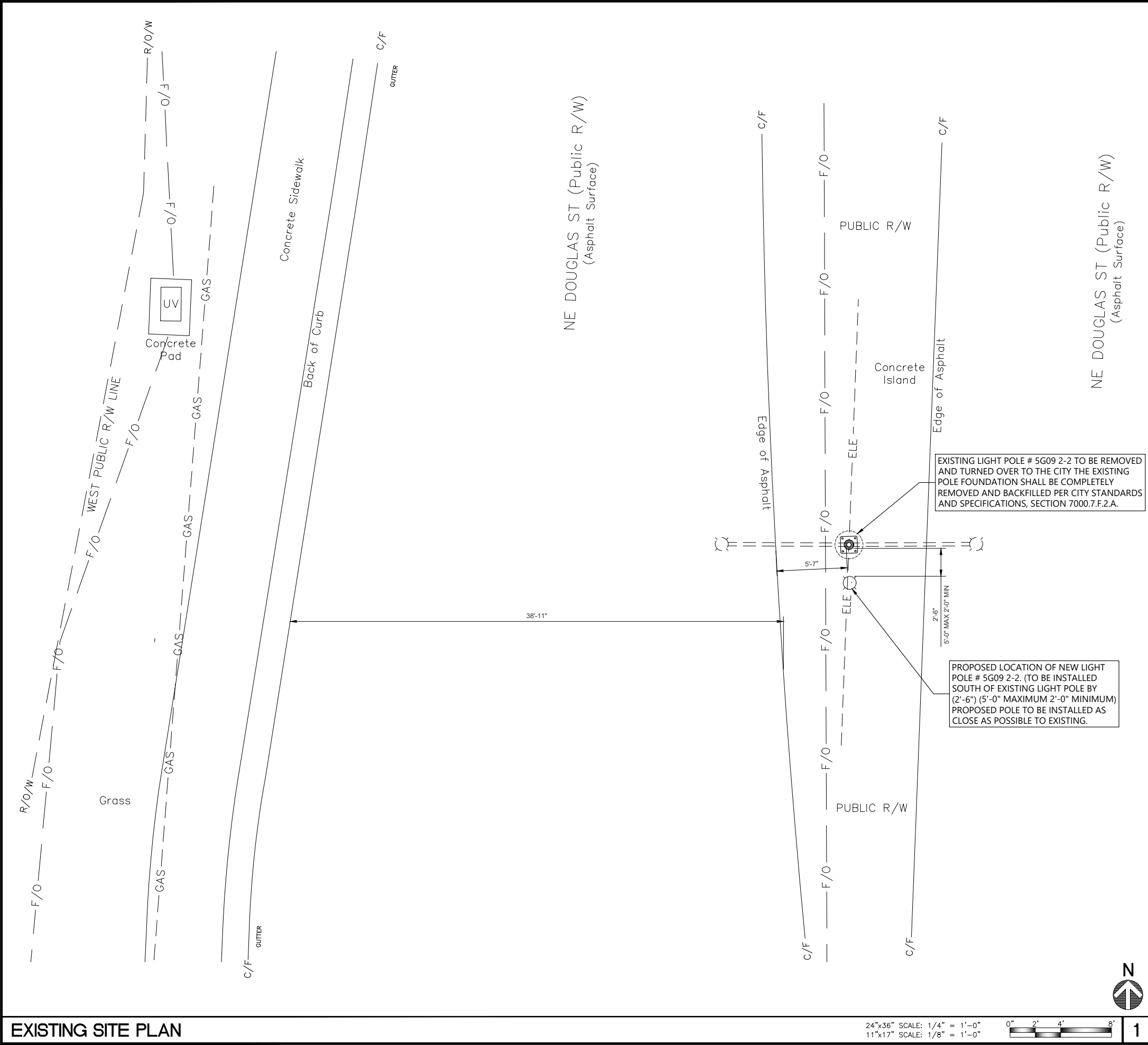
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
STEPHEN D. HEATH
NUMBER E-27797

DATE: 04-27-2020

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

SHEET TITLE:
UTILITY COORDINATION PLAN

A-2



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:

- CONTRACTOR SHALL REPAIR ALL DAMAGES RESULTING FROM CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITIONS AT COMPLETION OF WORK.
- CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING LOCATIONS WITH LANDLORD.
- ALL STREET LIGHT POLES WILL REQUIRE A NEW FOUNDATION. REFERENCE TO STRUCTURAL PLANS PROVIDED BY OTHERS.
- 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

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SMALL CELL PROJECT

PRELIMINARY

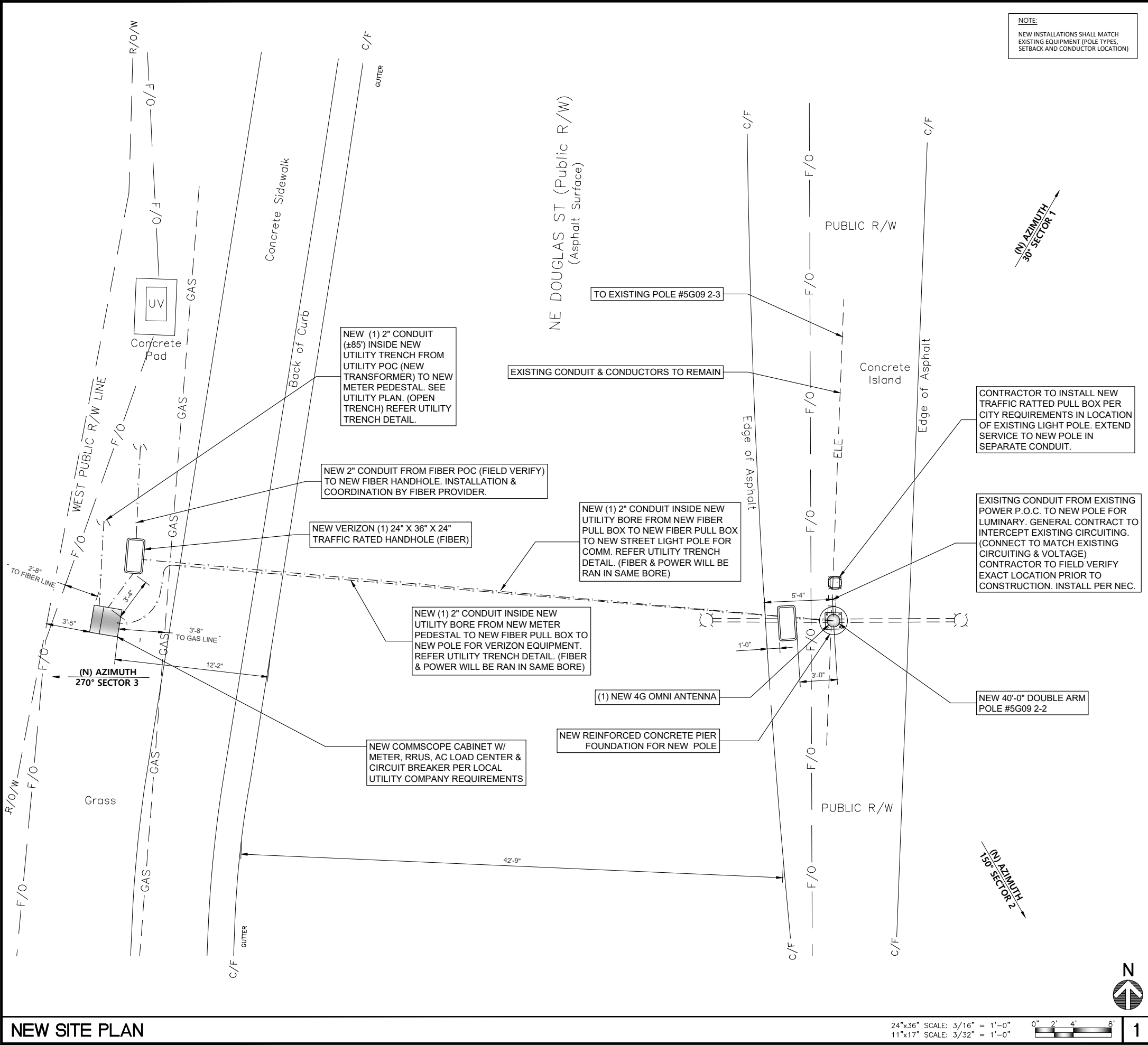
STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
STEPHEN D. HEATH
NUMBER E-27797

DATE: 04-27-2020

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

SHEET TITLE:
EXISTING SITE PLAN

A-3



NOTES


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

EXHIBIT PHOTO



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UTILITY LEGEND

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

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SMALL CELL PROJECT

PRELIMINARY

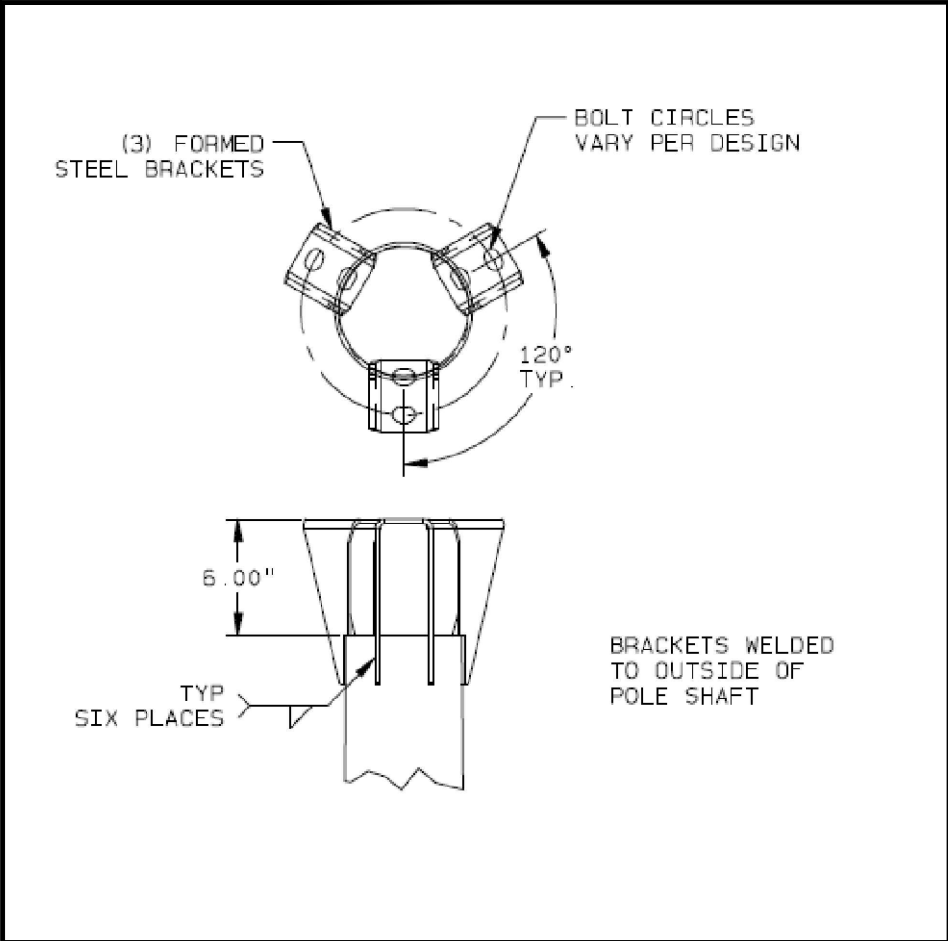
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STEPHEN D. HEATH
NUMBER E-27797

DATE: 04-27-2020

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

SHEET TITLE:
NEW SITE PLAN

A-4



POLE TOP BRACKETS

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

1

COMMSCOPE OMNI ANTENNA

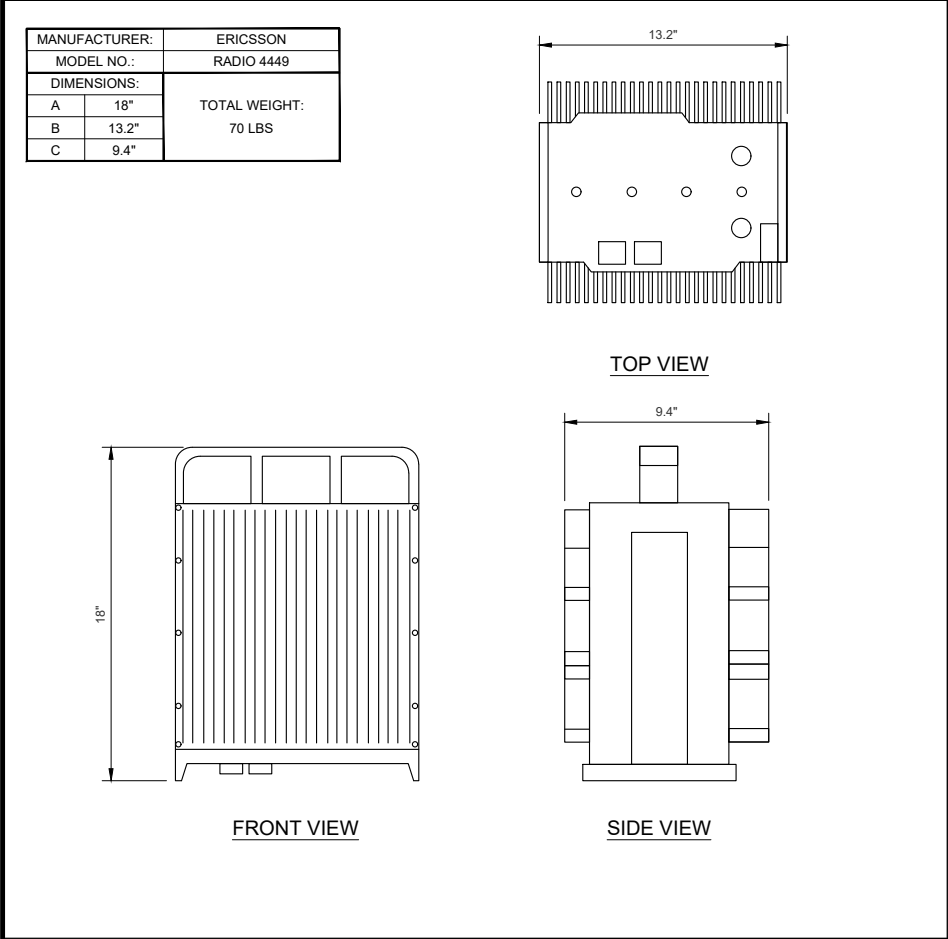
24"x36" SCALE: NTS
11"x17" SCALE: NTS

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

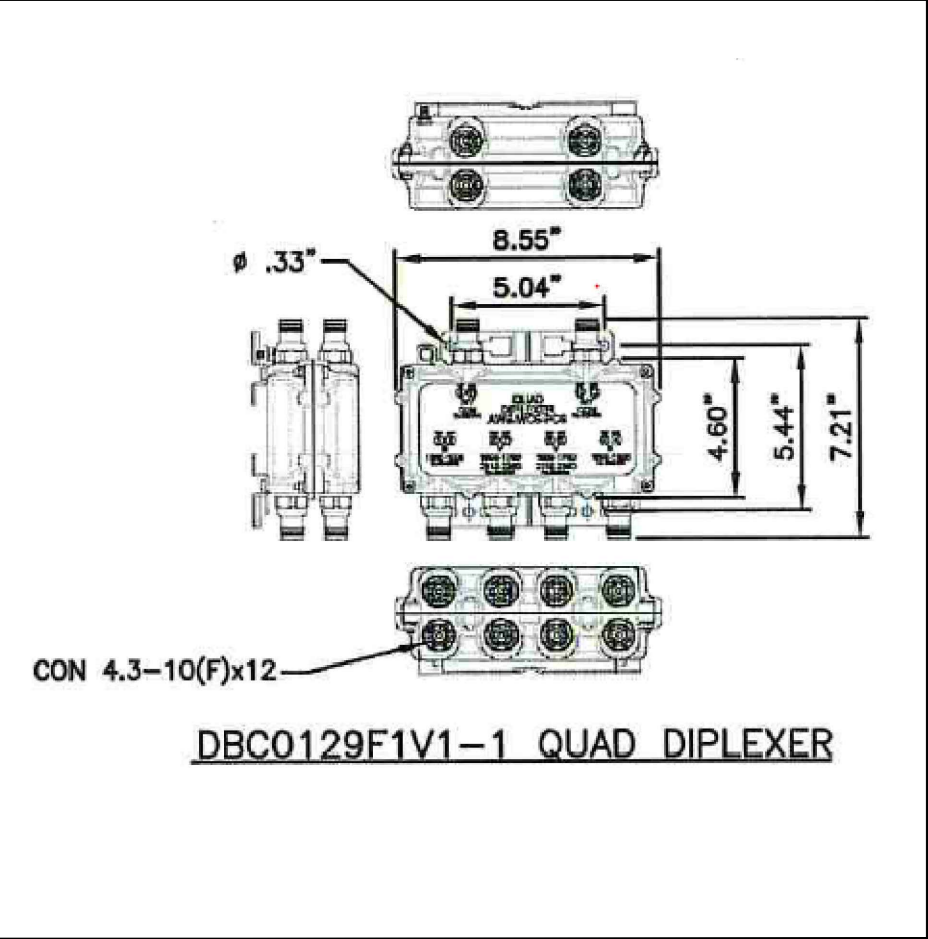
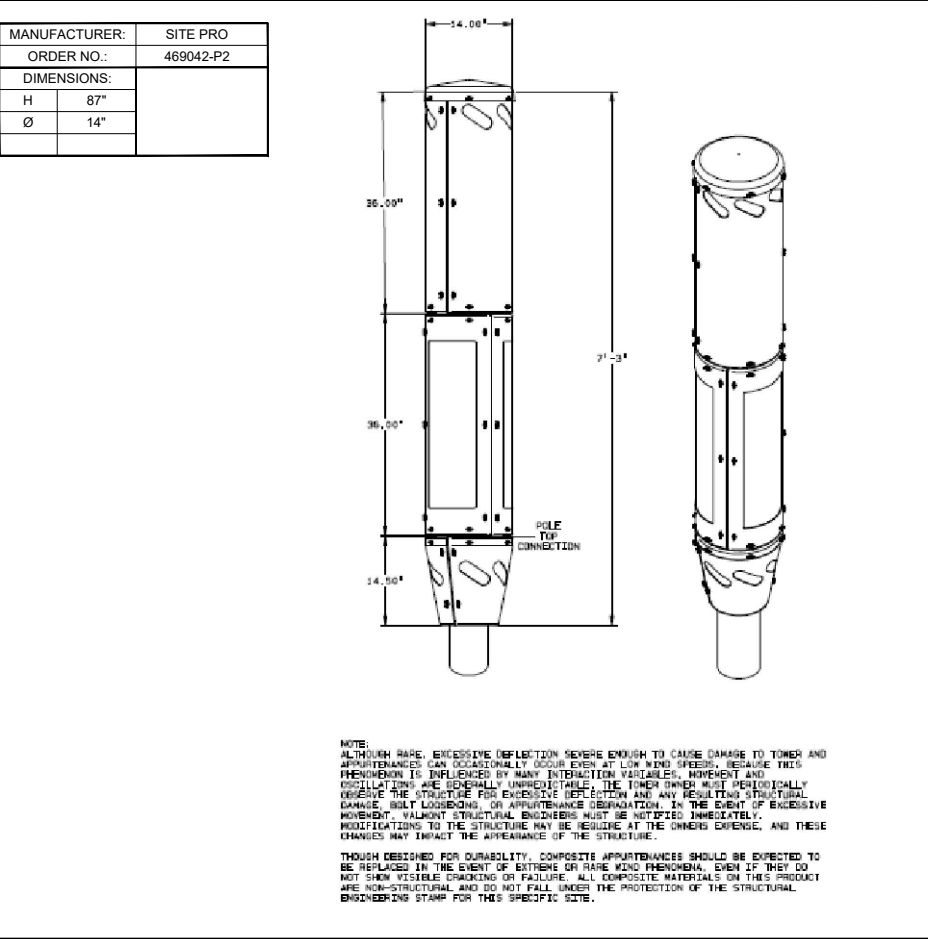
24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

DIPLEXER DETAIL

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

6



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SMALL CELL PROJECT

PRELIMINARY

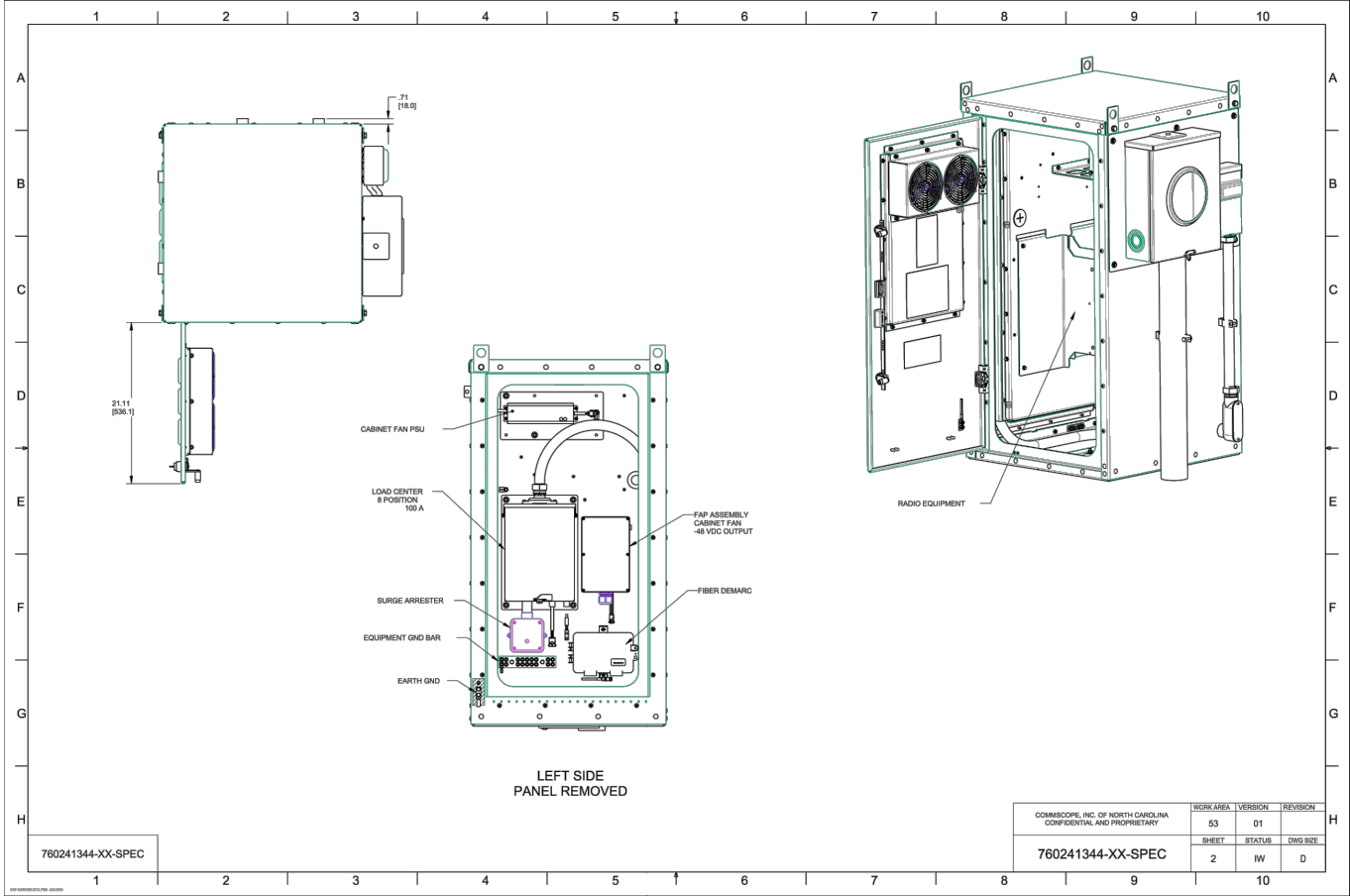
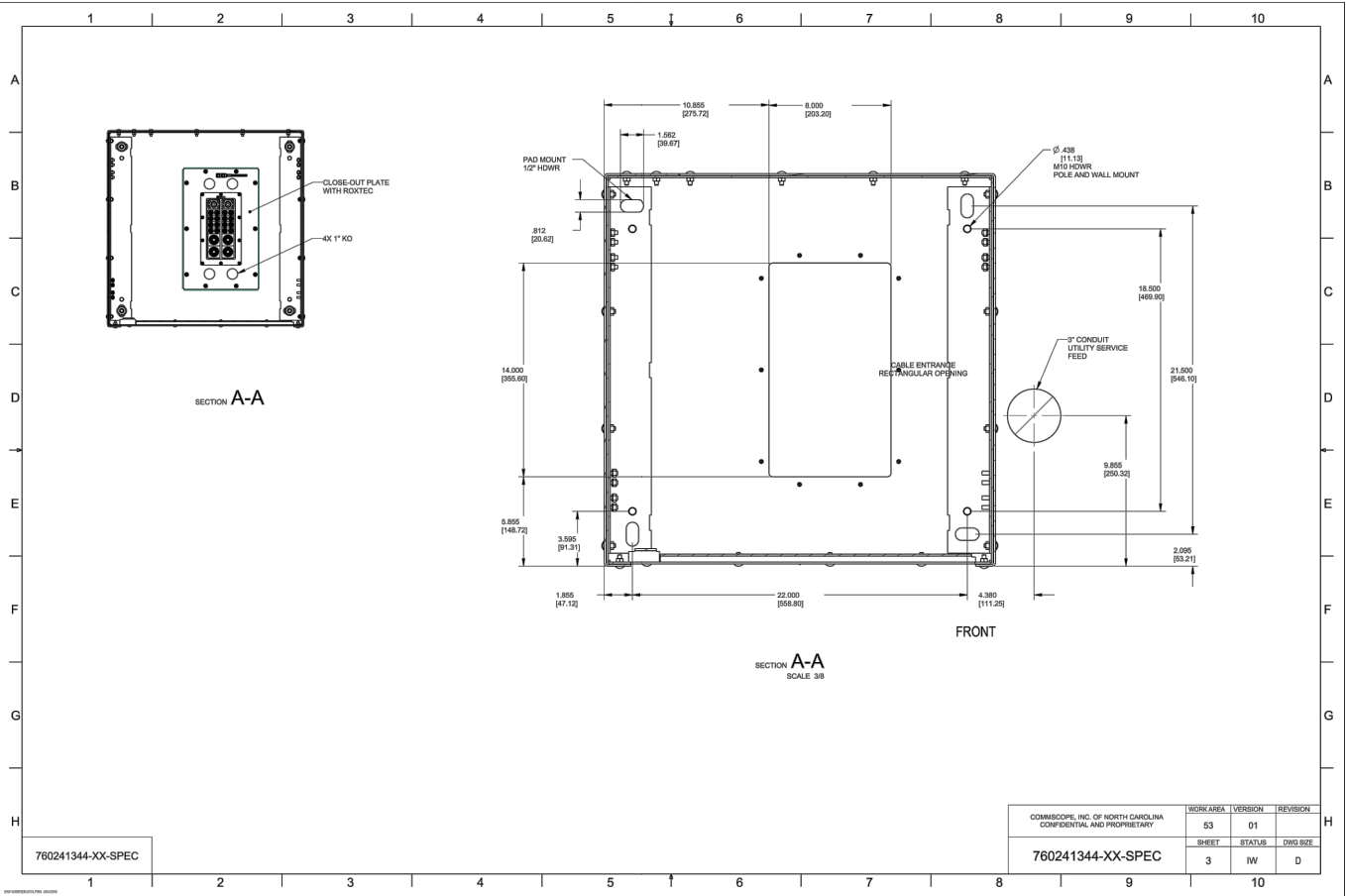
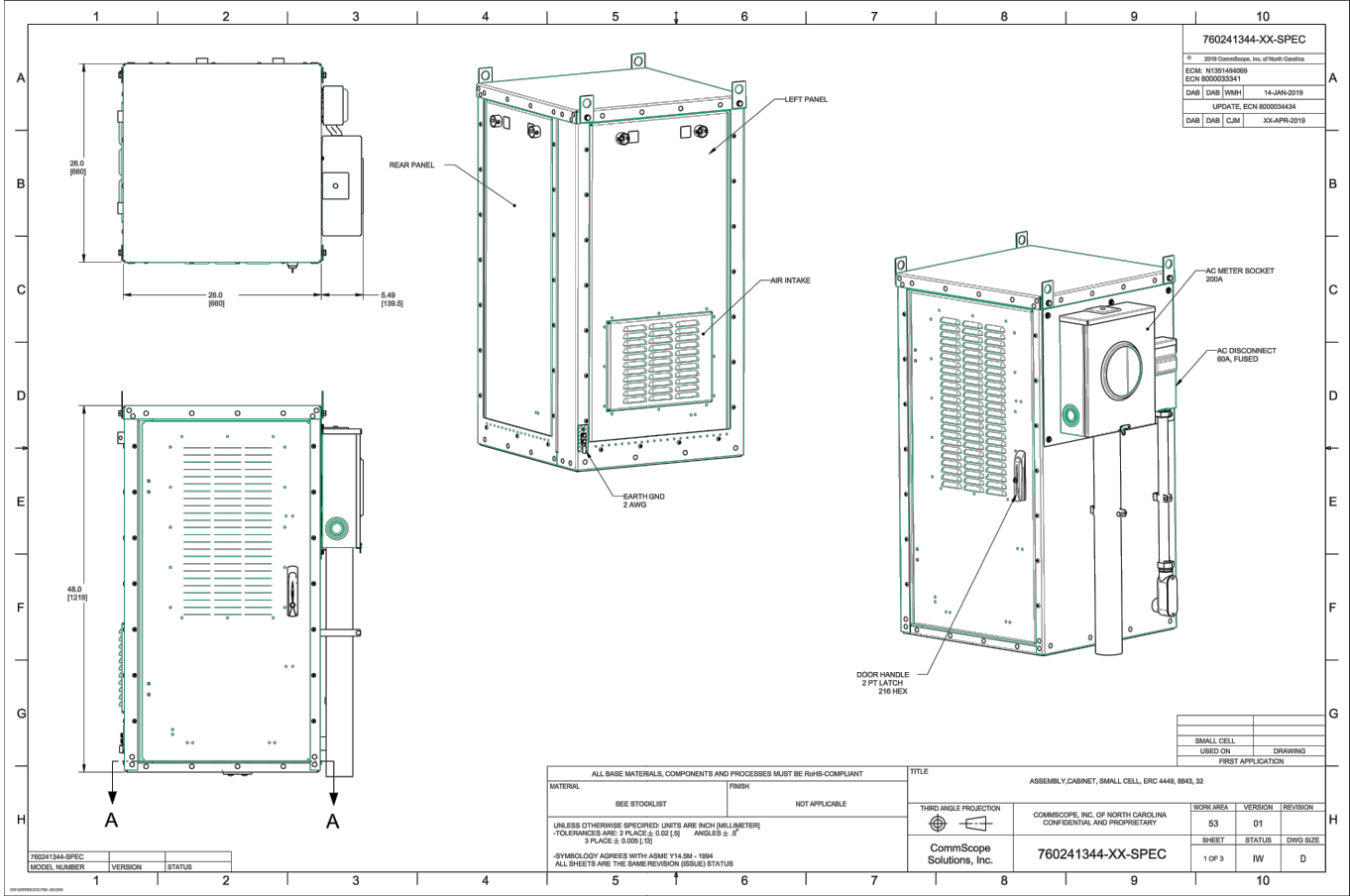
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DATE: 04-27-2020

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

SHEET TITLE:
DETAILS

A-6



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Costa Mesa, CA 92627-2250
Phone: 949-973-2380



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

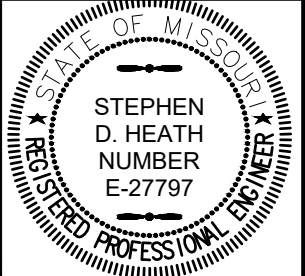
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PHONE: 800-264-6620

SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE
SUMMIT

DOUGLAS - A

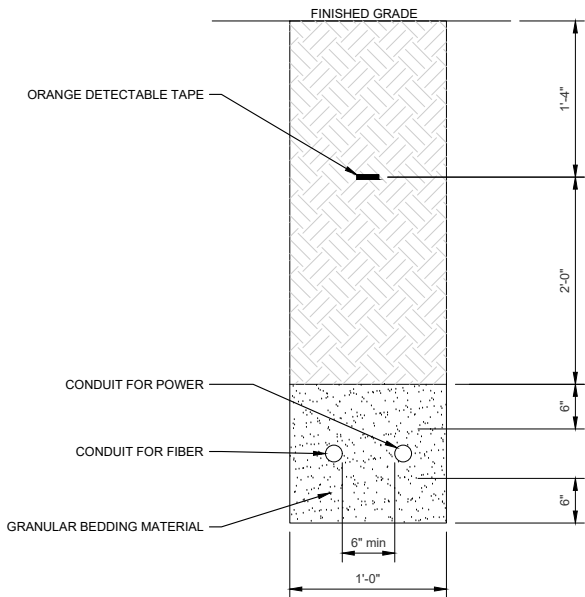
LEES SUMMIT - STREET LIGHT
NE DOUGLAS RD
LEES SUMMIT, MO 64086

SHEET TITLE:

DETAILS

A-7

NOTE:
CONTRACTOR TO REFER
TO PLAN FOR CONDUIT SIZE.

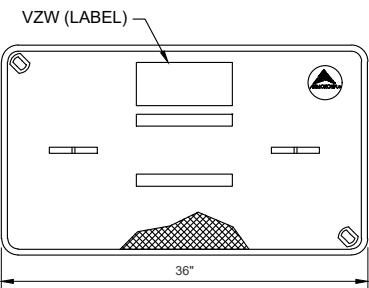


NOTE:
1. EXCAVATE TO REQUIRED DEPTH.
2. VERIFY ALL TRENCHING REQUIREMENTS WITH SERVING UTILITIES.
3. CALL BEFORE YOU DIG. CONTACT SERVING UTILITIES.
4. FIBER AND POWER CONDUITS MAY BE RUN IN SEPARATE TRENCHES. CONDUITS SHALL MAINTAIN 6" MINIMUM SEPARATION.

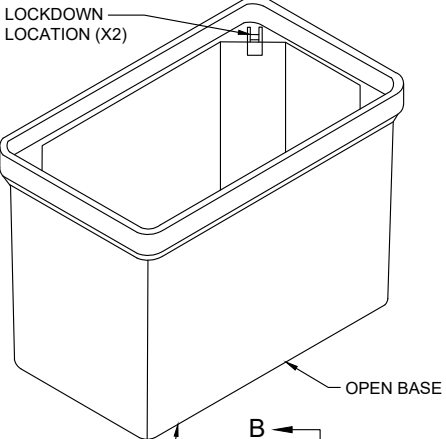
24"x36" SCALE: NTS
11"x17" SCALE: NTS

UTILITY TRENCH DETAIL

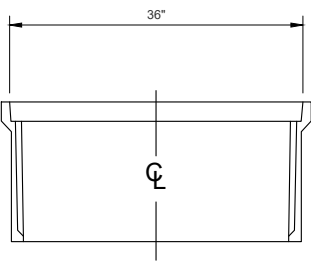
PULL BOX SPECIFICATIONS:
ARMORCAST PRODUCTS COMPANY
24" X 36" X 24" POLYMER CONCRETE BOX
DRAWING NUMBER - A6001974APCX24
APPROX. WT. = 277 LBS.



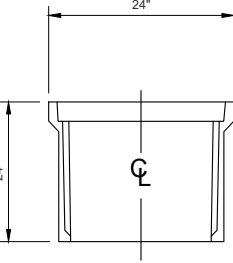
POLYMER CONCRETE COVER



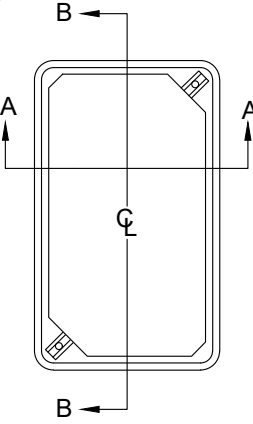
POLYMER CONCRETE BOX A6001974APCX24



SECTION B-B



SECTION A-A



TOP VIEW

NOTE:
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)

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

NEW RF NOTICE SIGNAGE

ISSUE STATUS			
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E	09/17/2020	100% CD - REVISED	TRS
F	09/30/2020	100% CD - REVISED	TRS

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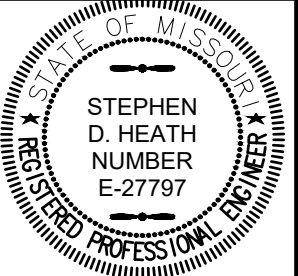
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SMALL CELL PROJECT

PRELIMINARY



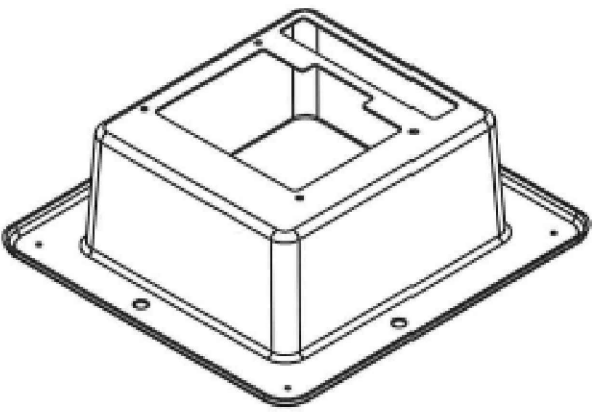
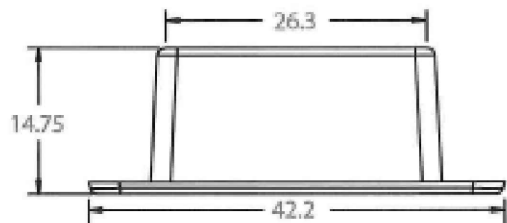
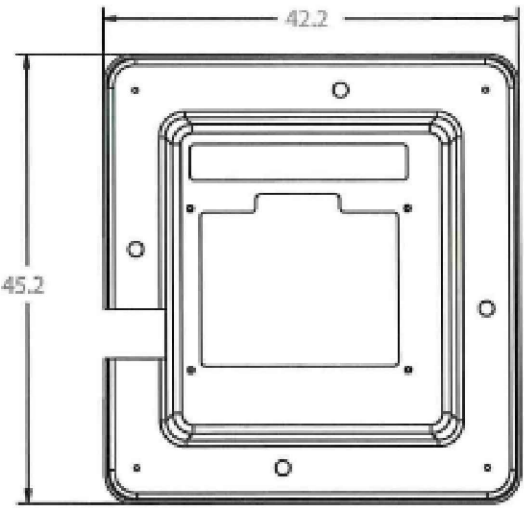
DATE: 04-27-2020

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

SHEET TITLE:

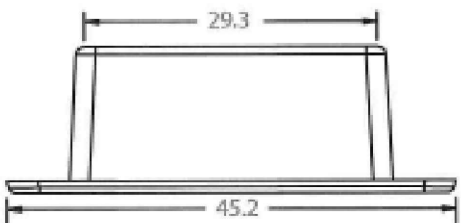
DETAILS

A-8



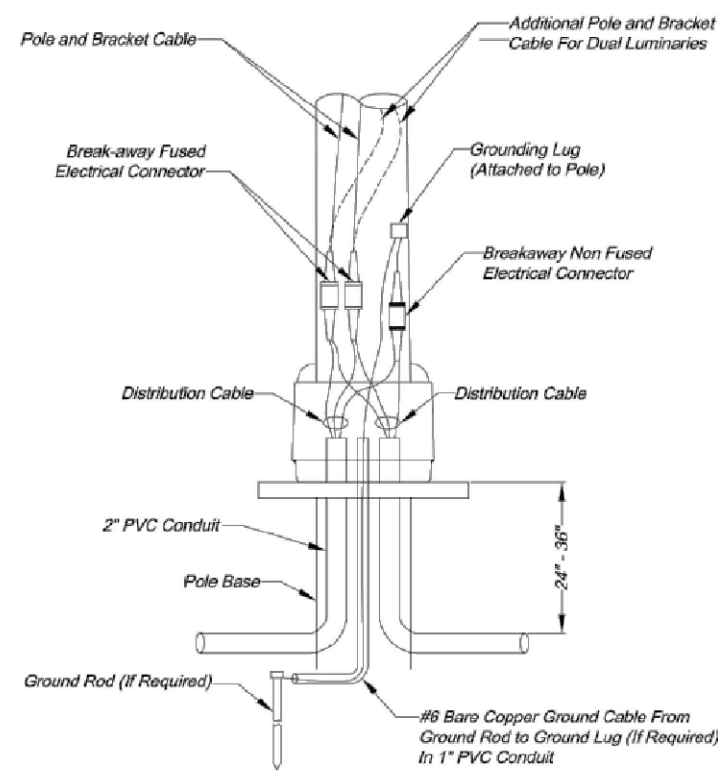
NOTE:
INSTALLATION OF CPAD-S
PER MANUFACTURERS
STANDARDS

NOTE:
COMPOSITE FIBERGLASS
MATERIAL

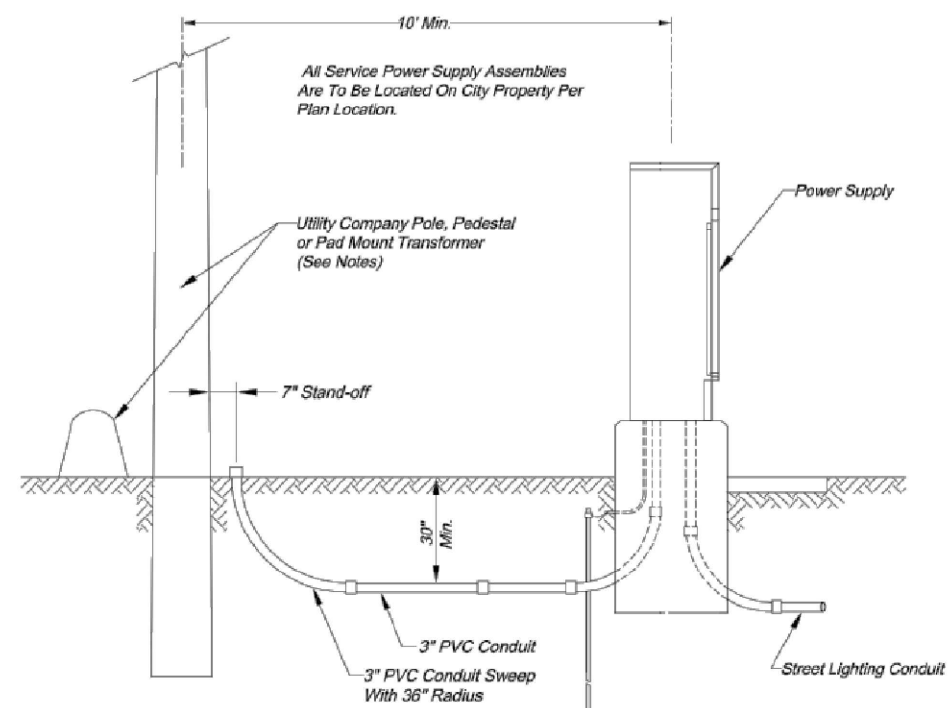


24"x36" SCALE: NTS
11"x17" SCALE: NTS

4G EQUIPMENT PAD DETAILS (CPAD-S1EXXXXXXA)

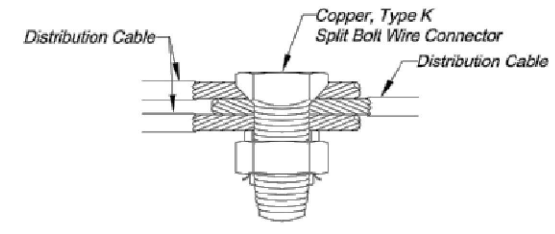


POLE WIRING DETAILS



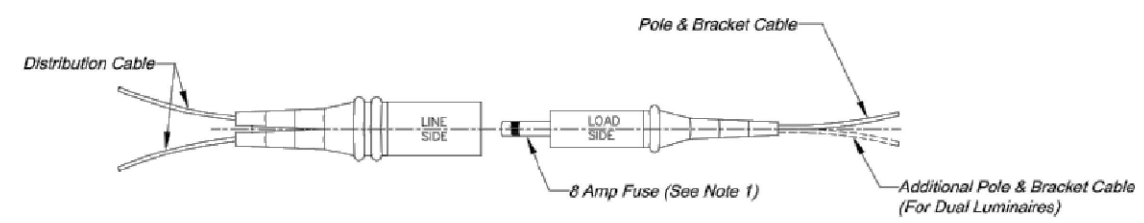
SECONDARY SERVICE CONNECTION DETAILS

- NOTES:
1. Contractor shall install a conduit stub 24" to 6" 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.
 2. 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.

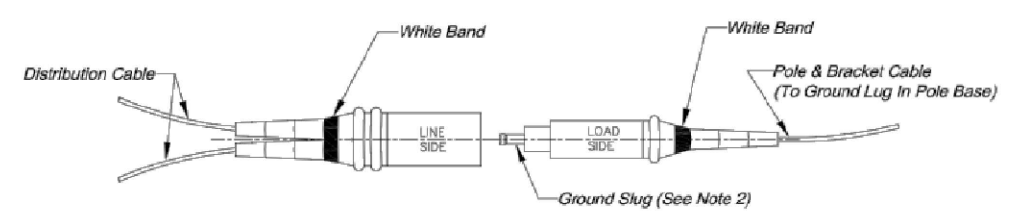


SPLICE KIT DETAILS

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

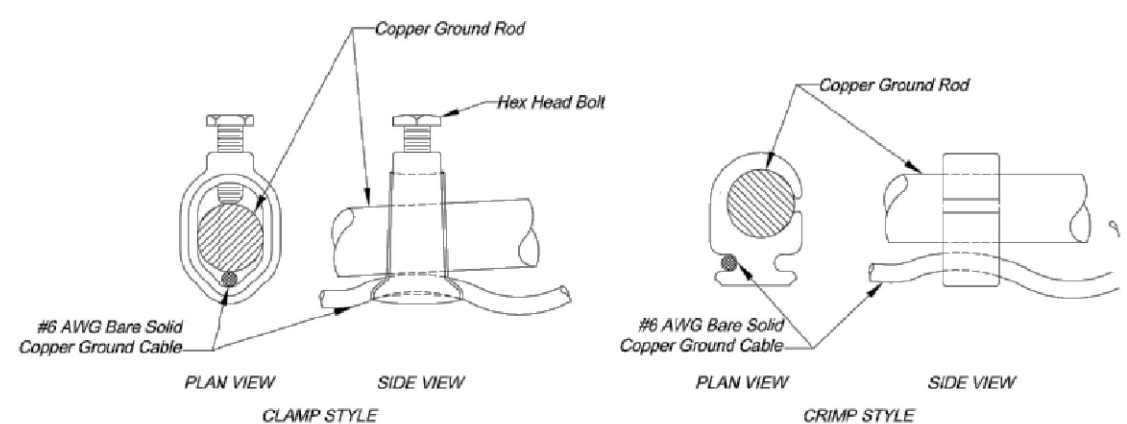


BREAK-AWAY FUSED ELECTRICAL CONNECTORS



BREAK-AWAY NON FUSED ELECTRICAL CONNECTOR

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



GROUND ROD CONNECTION DETAILS

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

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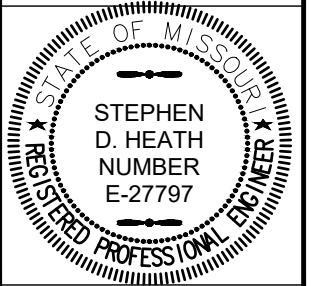
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SMALL CELL PROJECT

PRELIMINARY

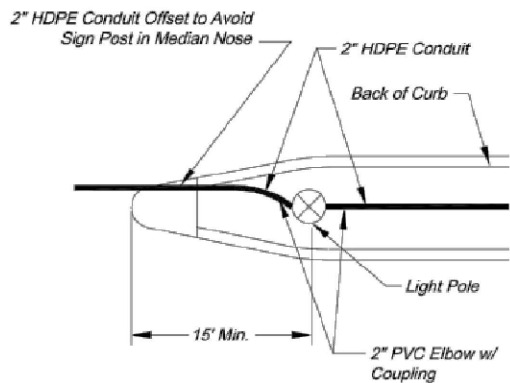


DATE: 04-27-2020

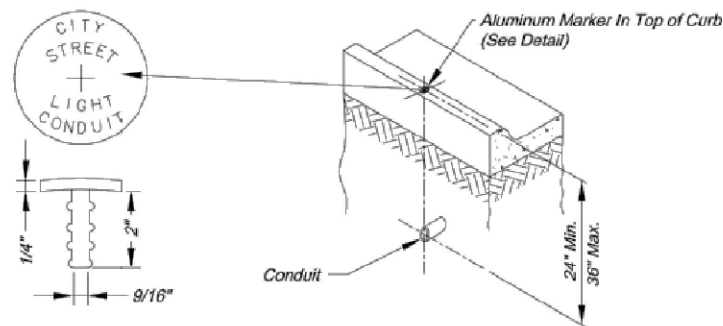
KCYC LEE
SUMMIT
DOUGLAS - A
LEES SUMMIT - STREET LIGHT
NE DOUGLAS RD
LEES SUMMIT, MO 64086

SHEET TITLE:
CITY ELECTRICAL
DETAILS

E-1

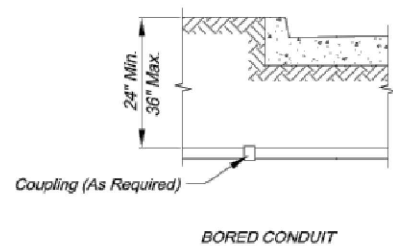


STREET LIGHT POLE
IN MEDIAN

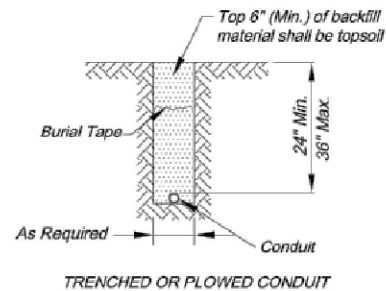


CONDUIT MARKING DETAIL

- 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.



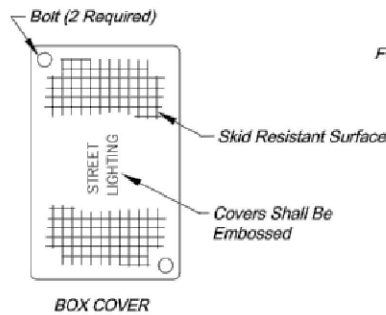
BORED CONDUIT



TRENCHED OR PLOWED CONDUIT

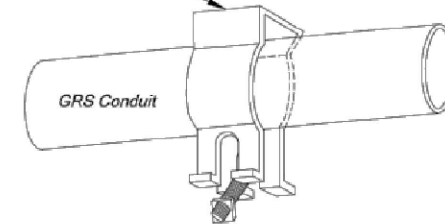
CONDUIT LOCATIONS

- 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.

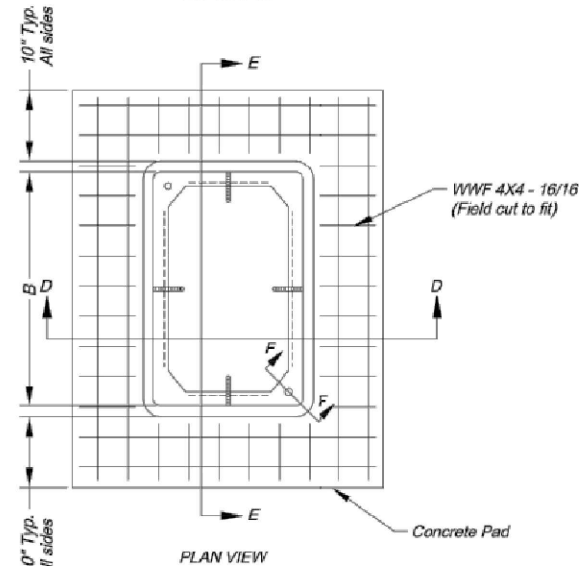


BOX COVER

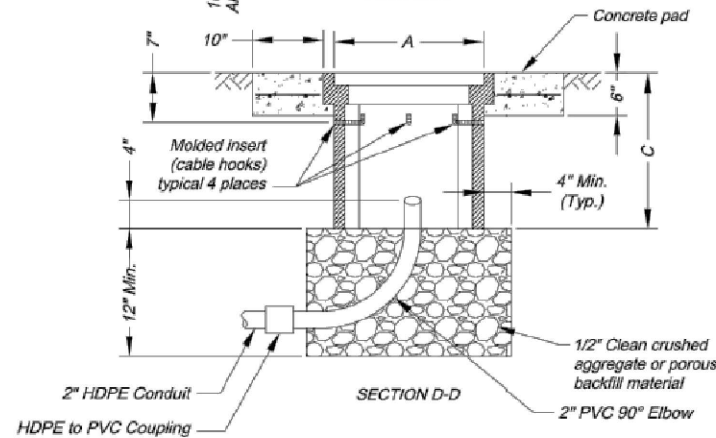
Fasten to Bridge As Recommended by the Manufacturer



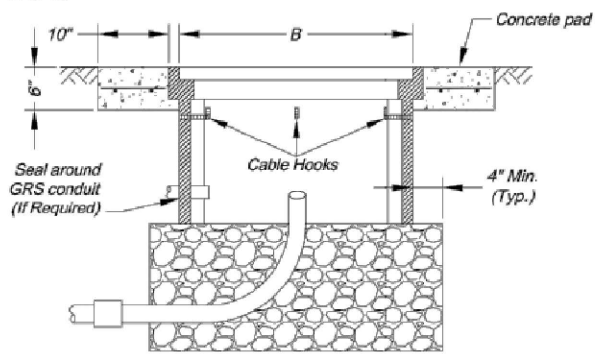
CONDUIT HANGER



PLAN VIEW

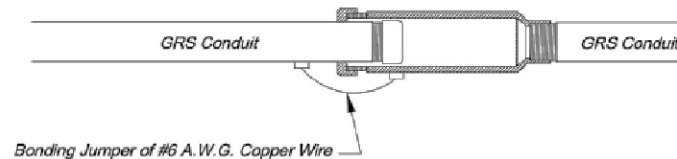


SECTION D-D



SECTION E-E

PULL OR JUNCTION BOX DETAILS



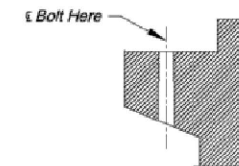
EXPANSION FITTING

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.

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



SECTION F-F

- 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.

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PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
220 SE GREEN STREET
LEE'S SUMMIT, MISSOURI 64063
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BOX AND CONDUIT DETAILS
STANDARD DRAWING SL-3

Project:
Sheet Name:

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

3 OF 5

3

ISSUE STATUS

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A	04/27/2020	90% CD - FOR REVIEW	NM
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F	09/30/2020	100% CD - REVISED	TRS

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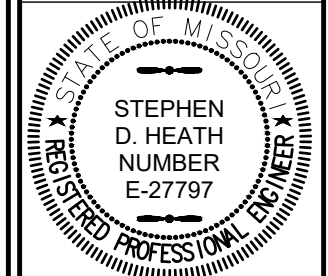
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PHONE: 913.219.1065

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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

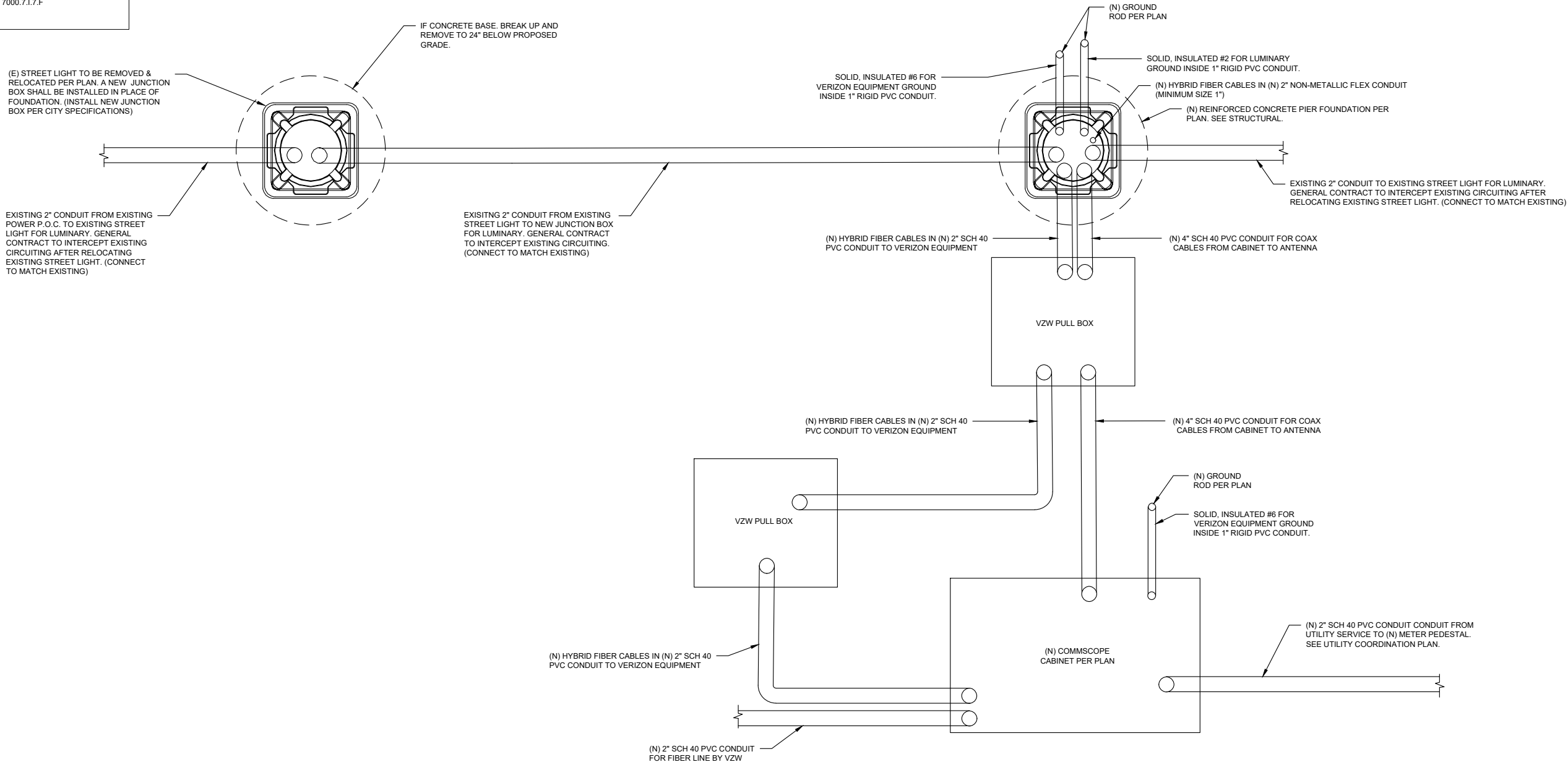
SHEET TITLE:

CITY ELECTRICAL
DETAILS

E-2

- 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



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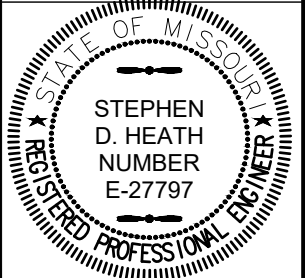
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SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC LEE

SUMMIT

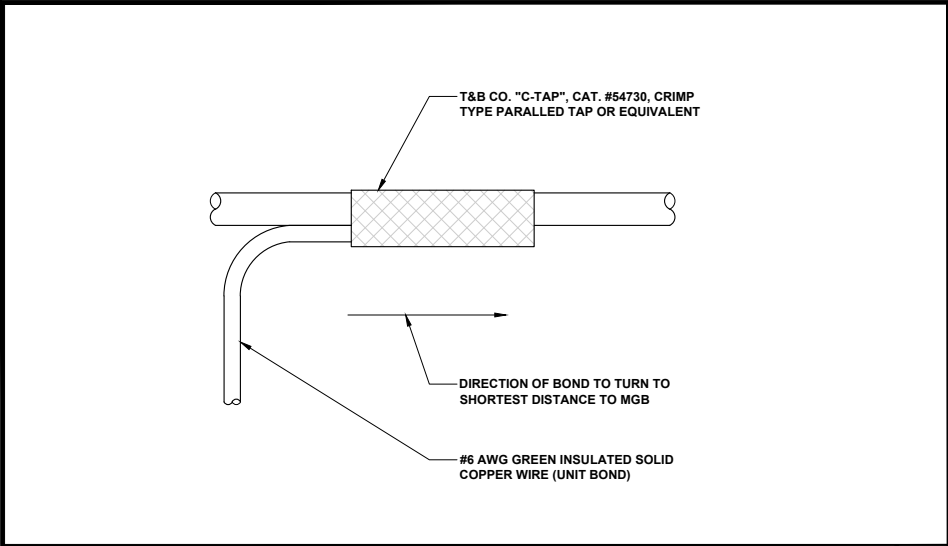
DOUGLAS - A

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

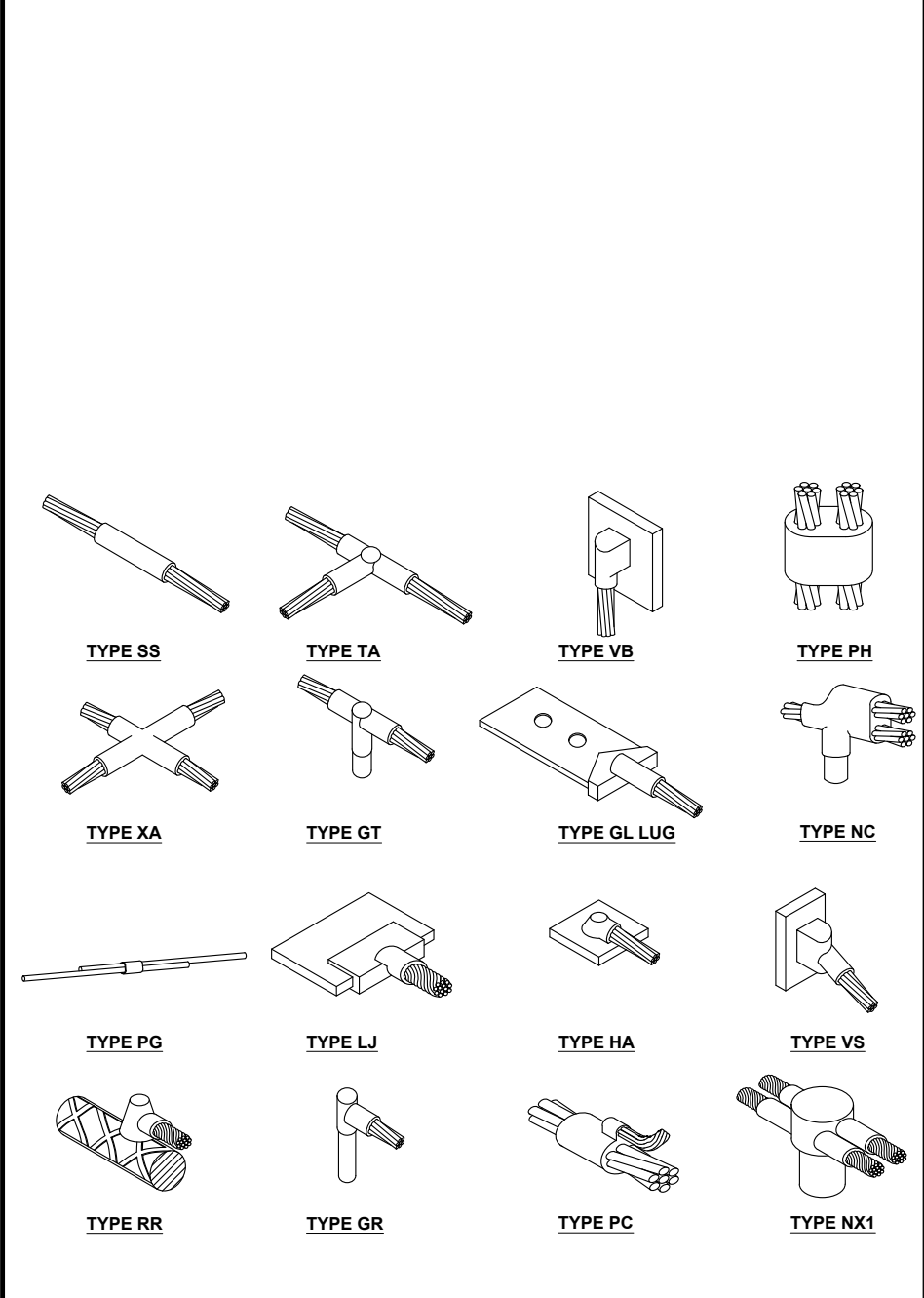
SHEET TITLE:

STREET LIGHT
CIRCUIT PLAN

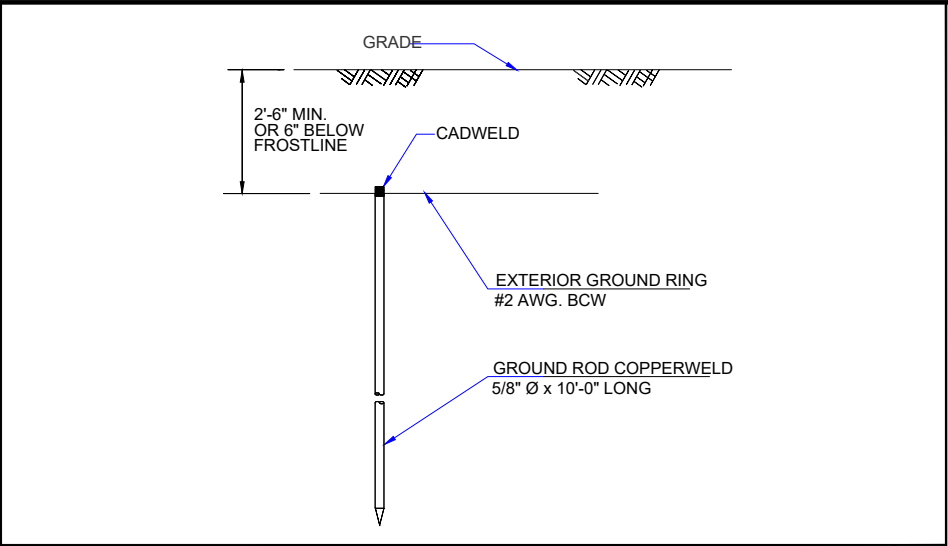
E-3



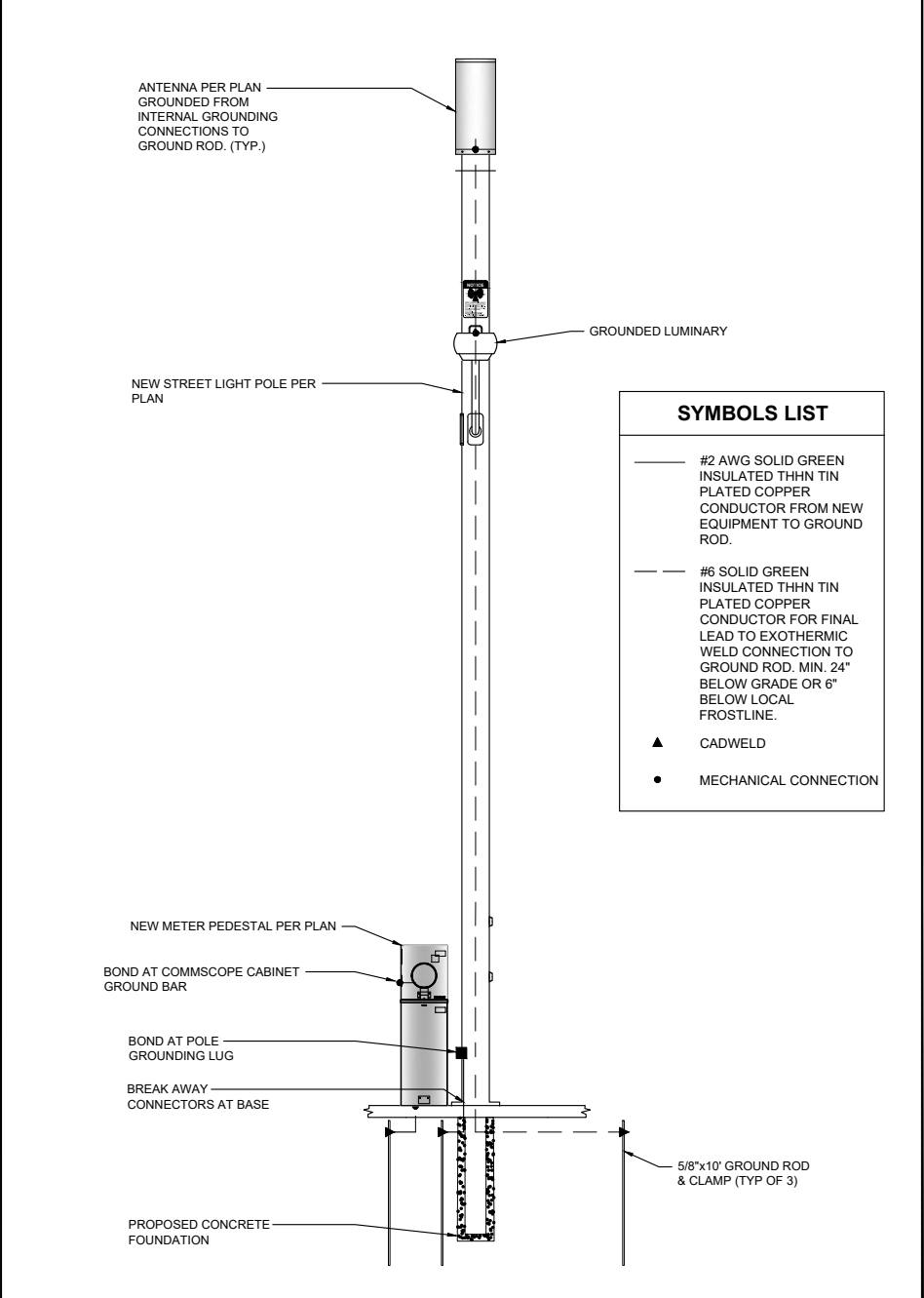
GROUNDING WIRE CONNECTION 24"x36" SCALE: NTS 11"x17" SCALE: NTS



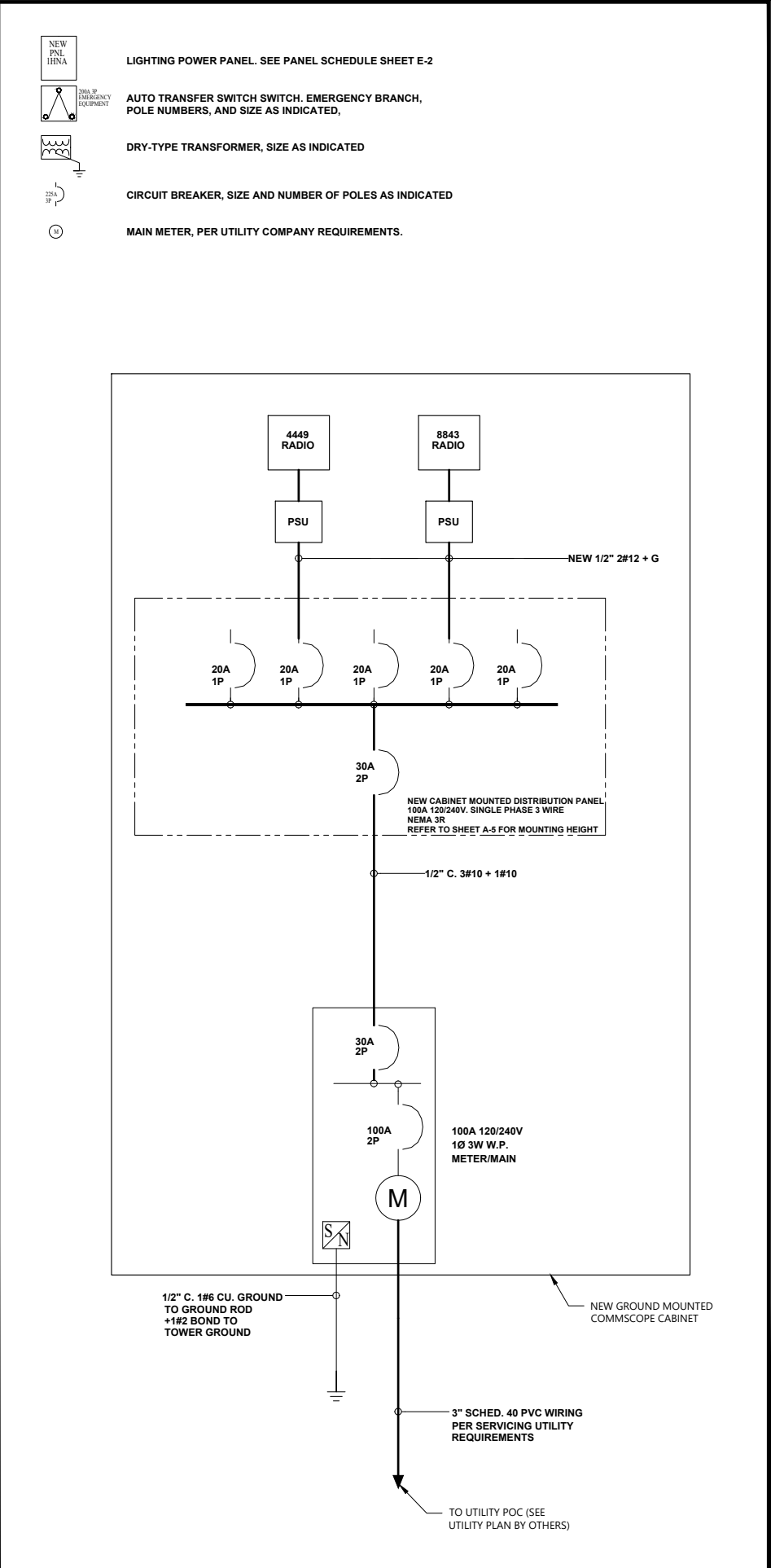
TYPICAL CADWELD TYPES 24"x36" SCALE: NTS 11"x17" SCALE: NTS



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



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



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

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KGPCo

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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

Project Details
Carrier Aggregation: false
MPT Id:
eCIP-0: false
Project Name: Full Relo
FUZE Project ID: 16054113
Designed Sector Carrier 4G: N/A
Designed Sector Carrier 5G: N/A
Additional Sector Carrier 4G: N/A
Additional Sector Carrier 5G: N/A
SiteTraker Project Id: a4K0H000000wSw8UAE
RFDS Project Scope: - New small cell
- 4G 8843 for AWS, 4449 for 700, 850 LTE
Suffix:

Location Information
Site ID: 616581870
E-NodeB ID:
PSLC: 602128
Switch Name:
Tower Owner:
Tower Type: Public Lighting Structure
Site Type: NODE
Street Address: NE Douglas Rd
City: Lees Summit
State: MO
Zip Code: 64086
County: Jackson
Latitude: 38.937919 / 38° 56' 16.5084" N
Longitude: -94.378458 / 94° 22' 42.4488" W

Antenna Summary

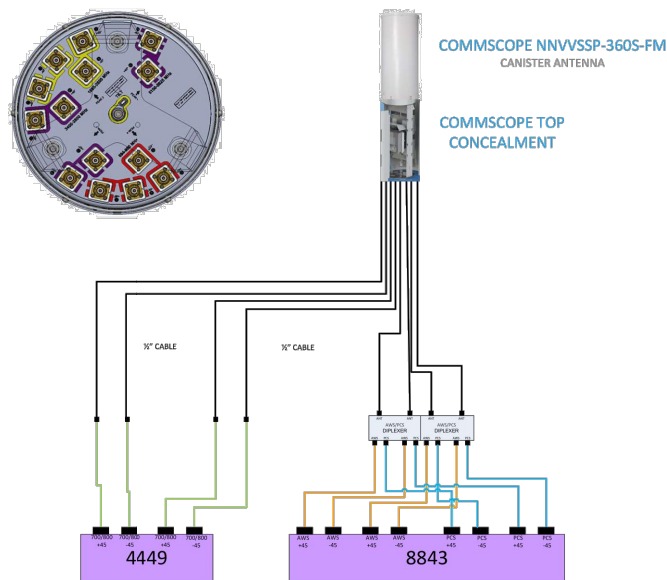
Added																				
700	850	1300	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	877	Male	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	
LTE	LTE		LTE									CCMMSCOPE	NRPVSSP-3605-FM	41.73	42.9	80D1	false	false	PHYSICAL	1
Removed																				
700	850	1300	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	877	Male	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	
No data available.																				
Retained																				
700	850	1300	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	877	Male	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	
No data available.																				
Added: 1														Removed: 0				Retained: 0		

Equipment Summary

Added																		
Equipment Type	Location	700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	N77	Make	Model	Cable Length	Cable Size	Install Type	Quantity
Diplexer	Tower												Kaelus	AWSPCS quad diplexer DBC0129F1V1-1			PHYSICAL	1
Mount	Tower												Commscope	Top Concealment SSC- 760236966E2			PHYSICAL	1
RRU	Tower	LTE	LTE										Ericsson	4449			PHYSICAL	1
RRU	Tower				LTE								Ericsson	8843			PHYSICAL	1
Removed																		
Equipment Type	Location	700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	N77	Make	Model	Cable Length	Cable Size	Install Type	Quantity
No data available.																		
Retained																		
Equipment Type	Location	700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	N77	Make	Model	Cable Length	Cable Size	Install Type	Quantity
No data available.																		

Service Info

2100 MHz LTE		0002	
Sector	D1		
Azimuth	0		
Cell / ENode B ID			
Antenna Model	NNVSSP-360S-FM		
Antenna Make	COMMSCOPE		
Antenna Centerline(F)	41.75		
Mechanical Down-Tilt(Deg.)	0		
Electrical Down-Tilt	5		
Tip Height	42.9		
Regulatory Power	6.94		
THA Make			
THA Model			
RRU Make	Ericsson		
RRU Model	8843		
Number of Tx, Rx Lines	4,4		
Position			
Source	ATOLLARI		
850 MHz LTE			
Sector	D1		0002
Azimuth	0		
Cell / ENode B ID			
Antenna Model	NNVSSP-360S-FM		
Antenna Make	COMMSCOPE		
Antenna Centerline(F)	41.75		
Mechanical Down-Tilt(Deg.)	0		
Electrical Down-Tilt	-7		
Tip Height	42.9		
Regulatory Power	11.45		
THA Make			
THA Model			
RRU Make	Ericsson		
RRU Model	4449		
Number of Tx, Rx Lines	4,4		
Position			
Source	ATOLLARI		
700 MHz LTE			
Sector	D1		0002
Azimuth	0		
Cell / ENode B ID			
Antenna Model	NNVSSP-360S-FM		
Antenna Make	COMMSCOPE		
Antenna Centerline(F)	41.75		
Mechanical Down-Tilt(Deg.)	0		
Electrical Down-Tilt	-9		
Tip Height	42.9		
Regulatory Power	2.97		
THA Make			
THA Model			
RRU Make	Ericsson		
RRU Model	4449		
Number of Tx, Rx Lines	4,4		
Position			
Source	ATOLLARI		
Service Comments			
PARTS LIST:			
- (1) Ericsson 8843 for AWS			
- (1) Ericsson 4449 for 700, 850 LTE			
- (1) Commscope carrier antenna NNVSSP-360S-FM			
- (1) Commscope Top Concealment SSC-7602369662			
- (1) Kaotia AW95PCS quad diplexer DBCL29F1V1			
Other power cables and ancillary parts to be specified by EPCF			



- 8843 and/or 4449 and (1) quad diplexer to be installed 10-15 ft above the ground up on the pole

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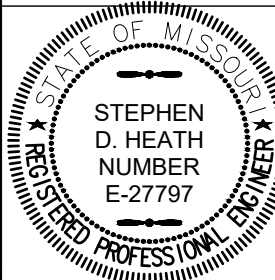
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SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

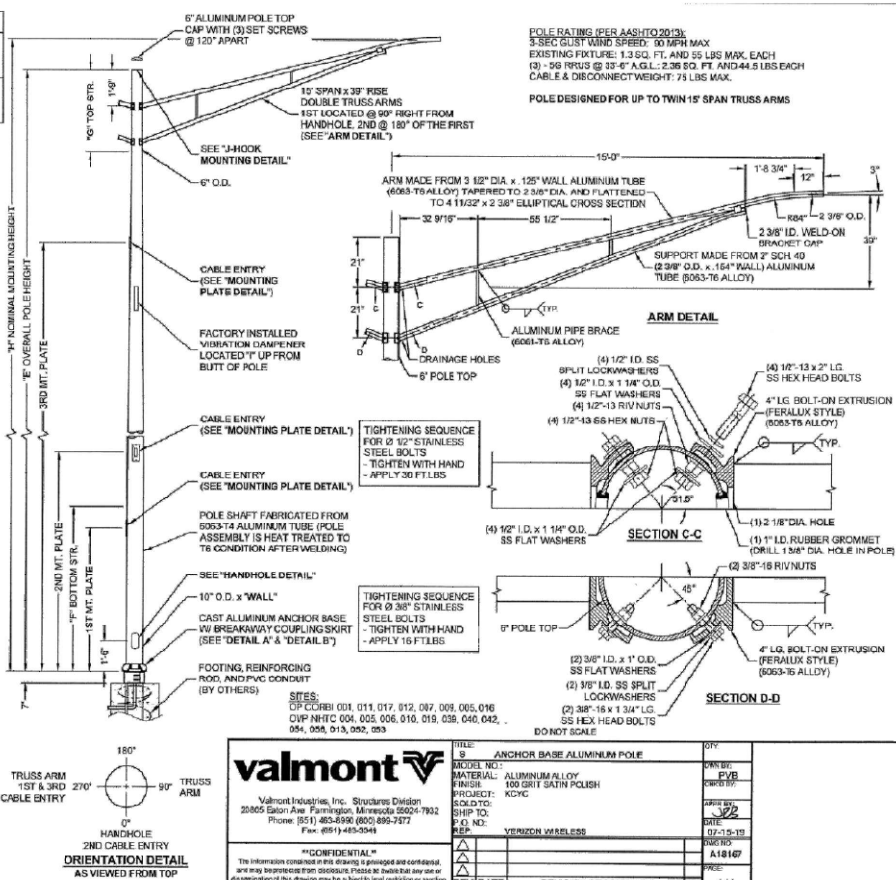
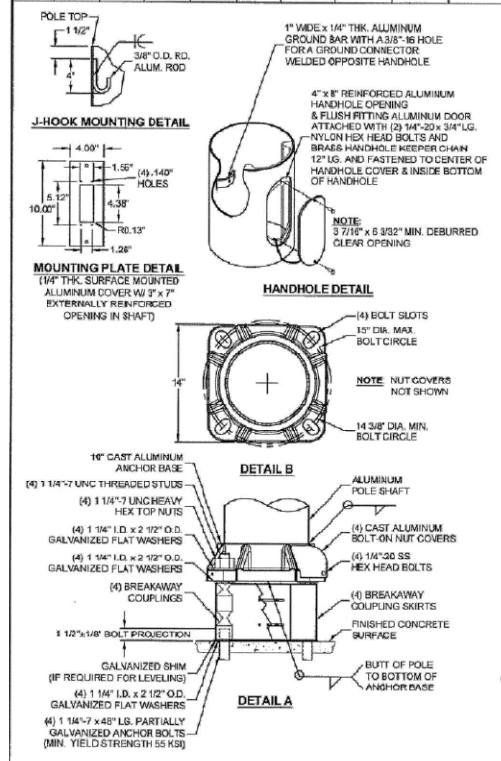
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NE DOUGLAS RD
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SHEET TITLE:

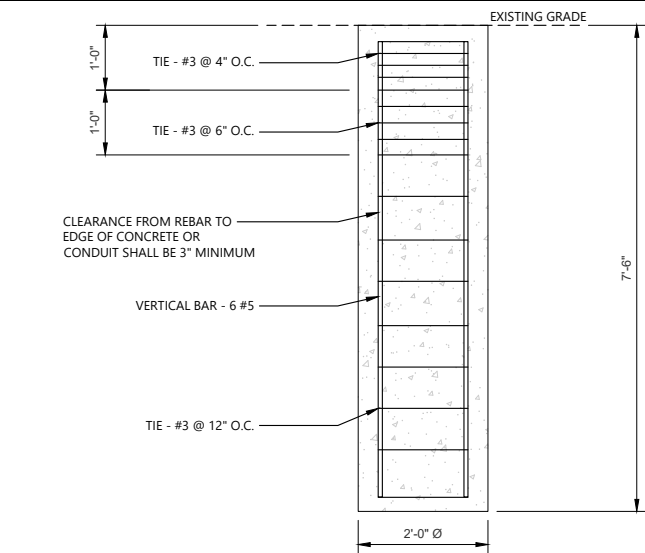
RFDS

RF-1

DIMENSION TABLE									
E	F	G	H	I	WALL	1ST HN	1ST MT. PLATE	2ND MT. PLATE	3RD MT. PLATE
36'-0"	16'-0"	4'-0"	41'-0"	23'-2"	.250"	LOC 1'-0" @ 0"	LOC. 6'-6" @ 270"	LOC. 10'-7" @ 0"	LOC. 30'-11" 270"



NEW VALMONT POLE



NOTE:
SITE SPECIFIC GEOTECHNICAL REPORT REQUIRED TO VERIFY ALLOWABLE
SOIL CONDITIONS

Code References

Calculations per ACI 318-11, IBC 2012, CBC 2013, ASCE 7-10
Load Combinations Used : IBC 2018

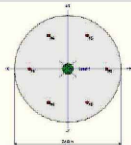
General Information

E = Concrete 28 day strength	=	3.0 ksi	Overall Column Height	=	7.5 ft
f _c =	=	3,122.0 psi	End Finity	Top Free, Bottom Fixed	
Density	=	150.0 pcf	Briace condition for deflection (buckling) along columns:		
β	=	0.850	X-X (width) axis:		
f _y - Main Rebar	=	60.0 ksi	Unbraced Length for buckling ABOUT Y-Y Axis = 9 ft, K = 2.0		
E - Main Rebar	=	29,000.0 ksi	Y-Y (depth) axis:		
Allow. Reinforcing Limits	ASTM A615 Bars Used		Unbraced Length for buckling ABOUT X-X Axis = 9.0 ft, K = 2.0		
Min. Reinf.	=	1.0 %			
Max. Reinf.	=	8.0 %			

Column Cross Section

Column Dimensions : 24.0in Diameter, Column Edge to Rebar Edge Cover = 3.0in

Column Reinforcing : 8.0 - #5 bars



Applied Loads

Column self weight included : 3,534.29 lbs * Dead Load Factor
AXIAL LOADS

Entered loads are factored per load combinations specified by user.

DESIGN SUMMARY

Load Combination	1.20D+0.50L+0.50W+W1.60H	Maximum Service Load Reactions			
Location of max:above base	7.450 ft	Top along Y-Y	0.0 k	Bottom along Y-Y	0.0 k
		Top along X-X	2.0 k	Bottom along X-X	2.0 k
Maximum Strain Rate	0.712; 1				
Ratio = $(P_u + 2M_u/2\lambda)^2 / (P_h P_n + P_h M_n + 2M_u^2)$					
$P_u =$	5.441 k	$\phi P_n =$	6.120 k		
$M_u =$	60.162 k-ft	$\phi M_n =$	-86.145 k-ft		
$M_y =$	0.0 k-ft	$\phi M_y =$	0.0 k-ft		
Maximum Service Load Deflections					
Along Y-Y	0.0746 in	at	7.50 ft	above base	
for load combination: W Only					
Along X-X	0.0 in	at	0.0 ft	above base	
for load combination:					
General Section Information: $\phi = 0.650$ $\beta = 0.850$ $\theta = 0.80$					
$\rho = \%$ Reinforcing 0.4112% Rebar < min of 1.0%					
Reinforcing Area 1.860 in ²					
Concrete Area 462.399 in ²					
Column Capacities:					
Pmax: Nominal Max. Compressive Axial Capacity	1,260.45 k				
Pmin: Nominal Min. Tension Axial Capacity	k				
ϕP_n min.: Usable Compressive Axial Capacity	655.43 k				
ϕP_n min.: Usable Tension Axial Capacity	k				

FOUNDATION DETAIL

NOT USED

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

1

FOUNDATION DETAILS

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

3

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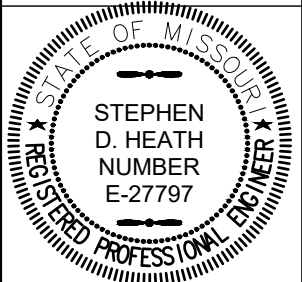
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SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

KCYC I FF

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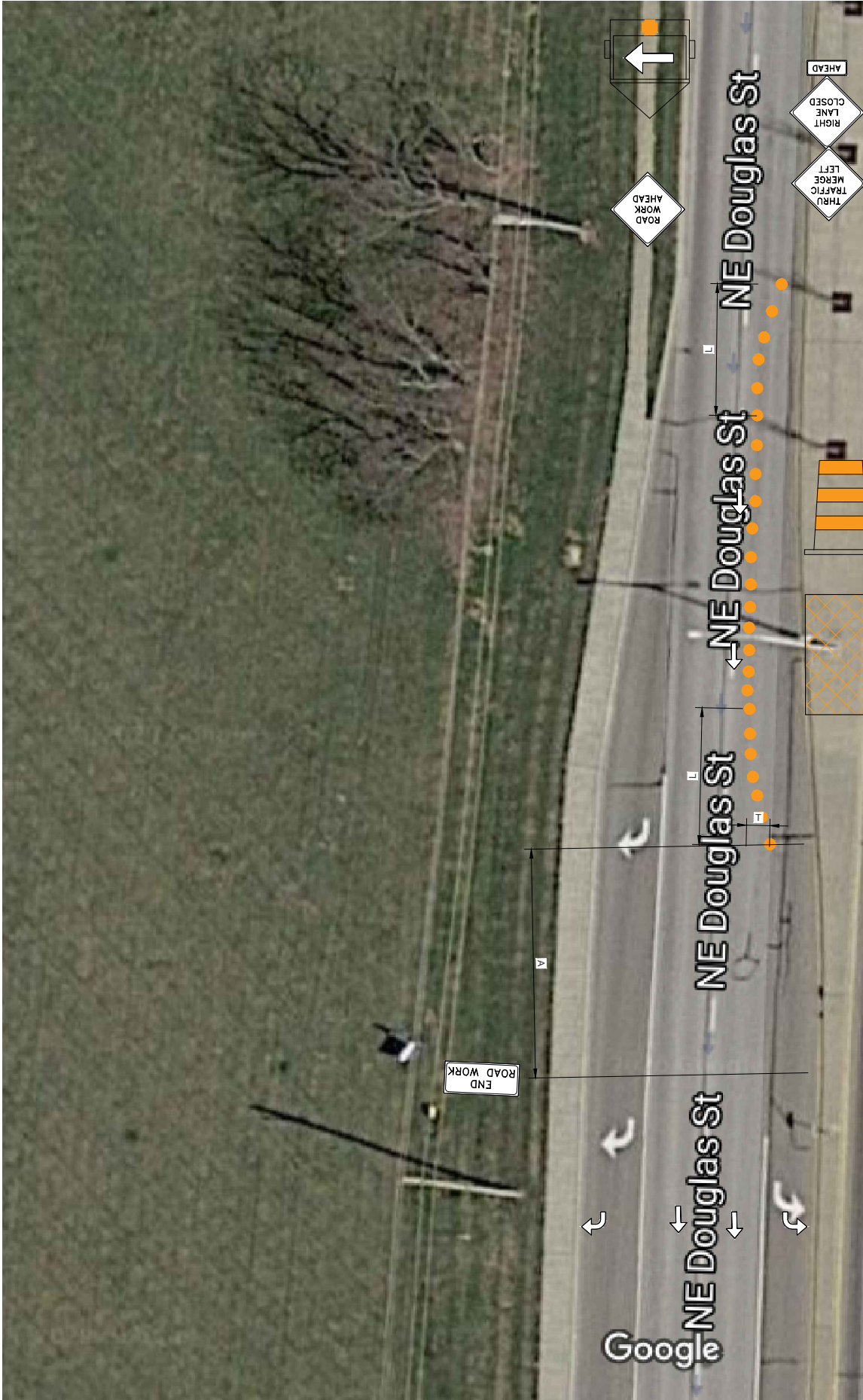
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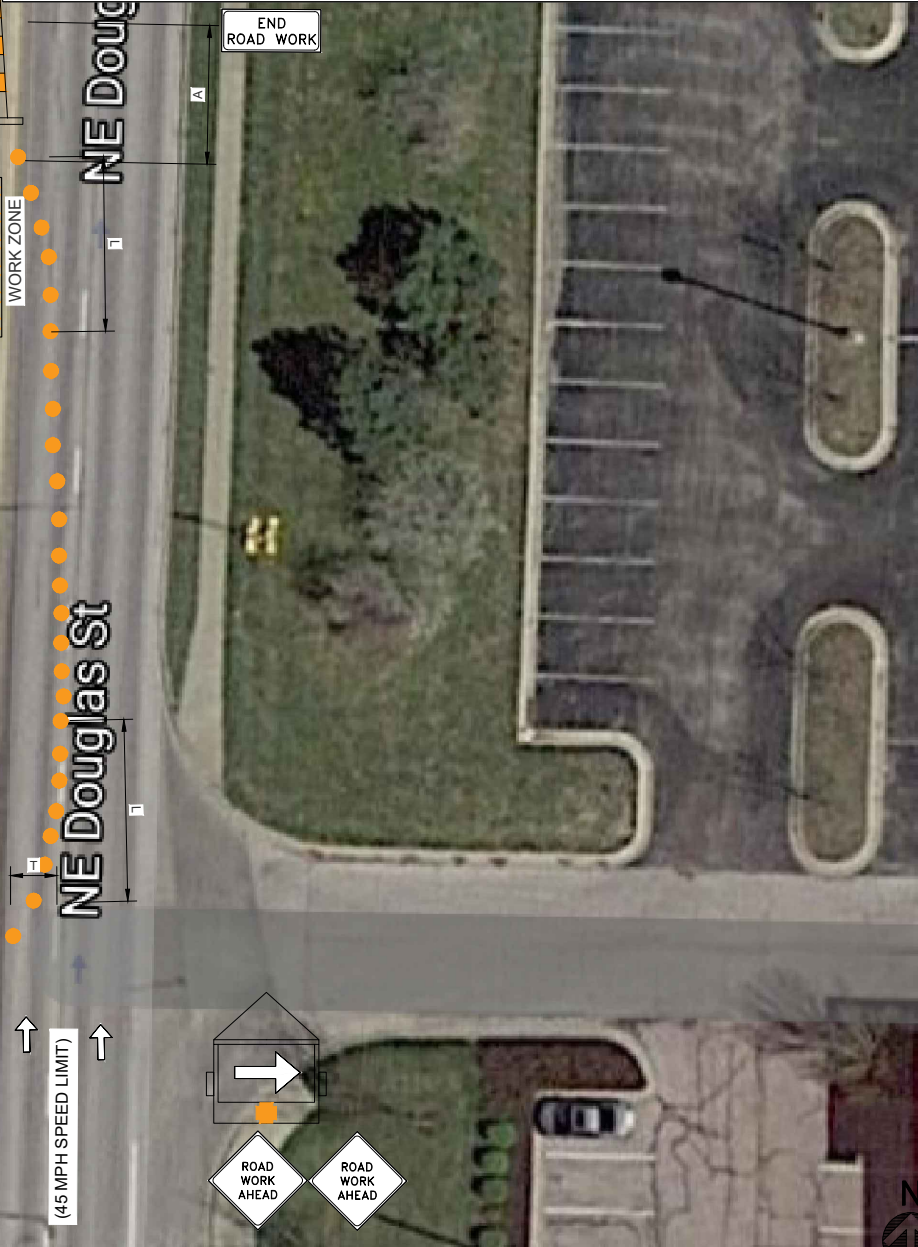
SHEET TITLE:

STRUCTURAL DETAILS

S-1



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

2

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LEGEND

3

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			

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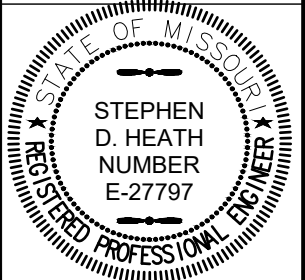
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SMALL CELL PROJECT

PRELIMINARY

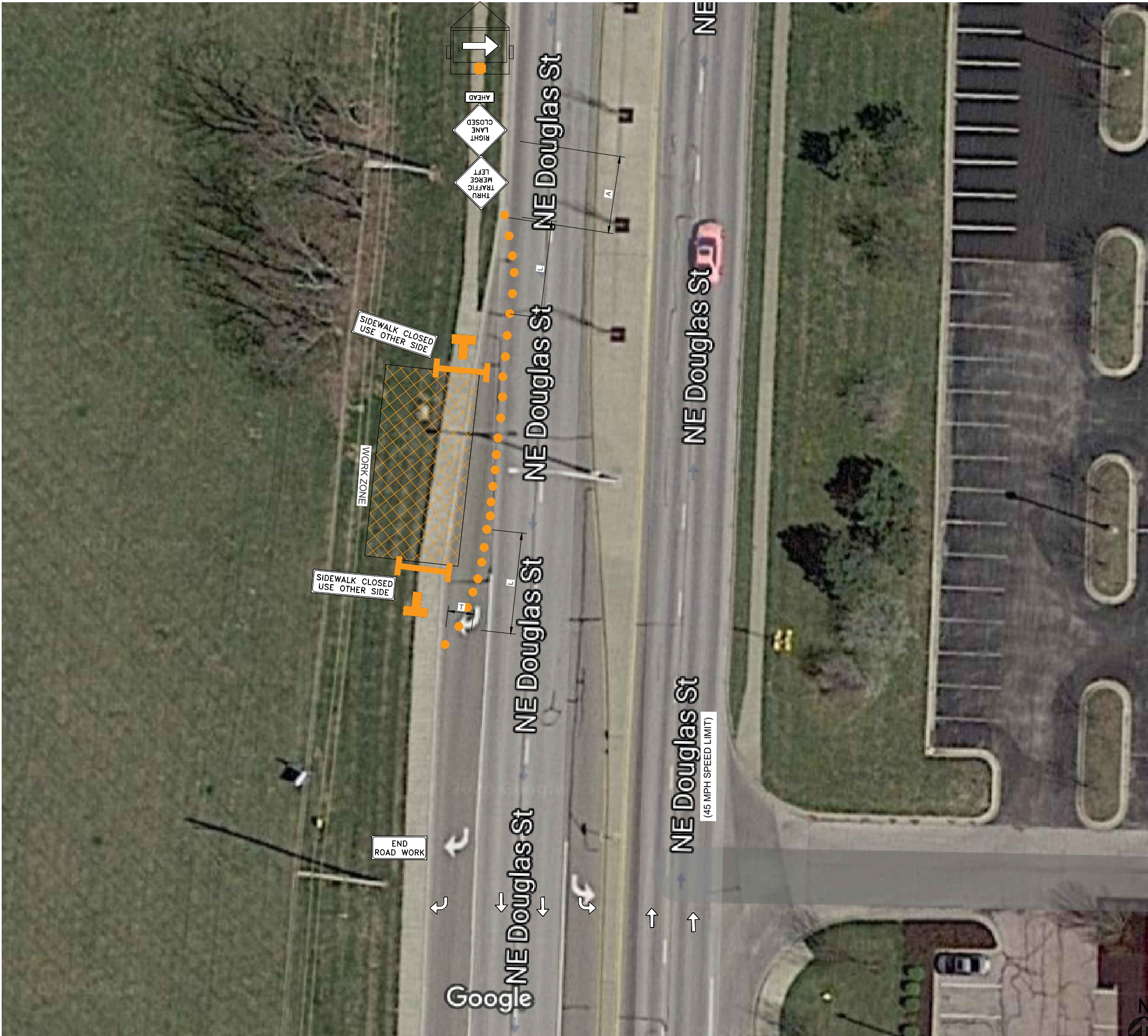


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SHEET TITLE:
TRAFFIC CONTROL
PLAN

TCP-1



PEDESTRIAN CONTROL PLAN

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

GENERAL NOTES








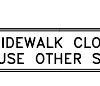



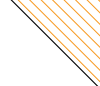







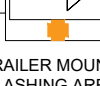
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LEGEND

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

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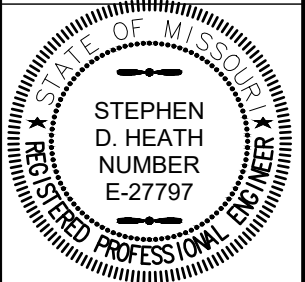
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SMALL CELL PROJECT

PRELIMINARY



DATE: 04-27-2020

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LEES SUMMIT - STREET LIGHT
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PEDESTRIAN CONTROL PLAN

PCP-1