

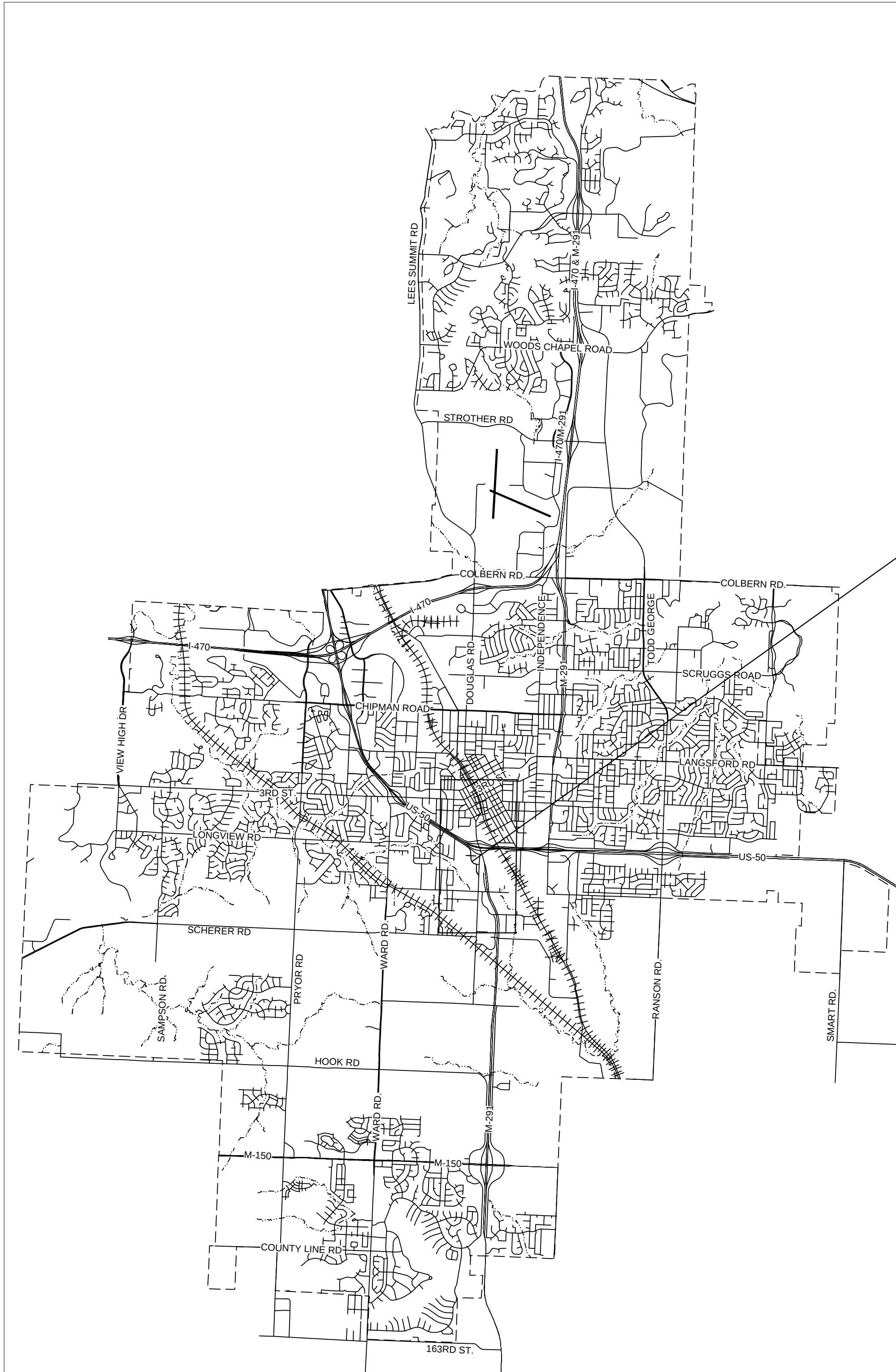
Drawing name: K:\KAC_T\0208132012 - Oldham Village Signal\CAD\Parasheets\8 - COVER SHEET.dwg COVER SHEET Mar 26, 2025 11:58am by Cara.Hoggett
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CITY OF LEE'S SUMMIT, MISSOURI

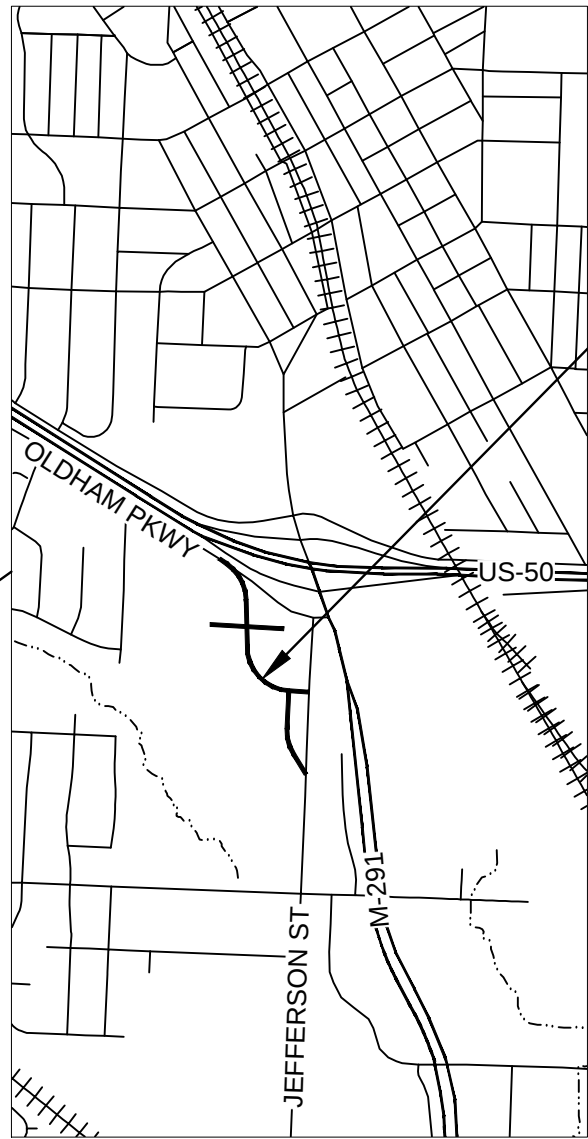
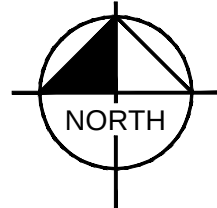
PUBLIC WORKS DEPARTMENT

STREET LIGHTING INSTALLATION

OLDHAM PARKWAY AND JEFFERSON STREET



LOCATION MAP
(NOT TO SCALE)



PROJECT LOCATION

Sheet List Table	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3 - 5	LIGHTING PLANS
5	LIGHTING PLAN
6 - 7	WIRING DIAGRAMS
8	POLE DETAILS
9	POLE BASE DETAILS
10	BOX AND CONDUIT DETAILS
11	POWER SUPPLY DETAILS
12	ELECTRICAL DETAILS

UTILITY & GOVERNING AGENCY CONTACTS

AT&T
TIM BUSHART
TB2697@ATT.COM

EVERGY
MARK PEARSON, 816-896-8914
MARK.PEARSON@EVERGY.COM

COMCAST
JOHN MEADOWS, 816-918-3088
JOHNMEADOWS@COMCAST.COM

CONSOLIDATED COMMUNICATIONS
JOHN CASTILOW, 913-322-9785
JOHN.CASTILOW@EVERFASTFIBER.COM

GOOGLE
LAUREN MARCUCCI, 913-663-1900
LMARCUCCI@GOOGLE.COM

LSR7 - FIBER
KINZIE WOODERSON, 816-986-1050
KINZIE.WOODERSON@LEESUMMIT.K12.MO.US

LSR7 - TRANSPORTATION
KEITH HENRY, 816-986-2405
KEITH.HENRY@LEESUMMIT.K12.MO.US

SPECTRUM
KEVIN STEELE
KEVIN.STEELE@CHARTER.COM

SPIRE ENERGY
RICHI GARCIA, 816-507-0713
RICHI.GARCIA@SPIREENERGY.COM

UNITE PRIVATE NETWORKS
BRANDON MYER, 816-206-4257
BRANDON.MYER@UPNFIBER.COM

BLUEBIRD COMMUNICATIONS
314-237-2125

CITY WATER UTILITIES
816-969-1940

CITY STORMWATER - PW OPERATIONS
816-969-1870

CITY FIBER - ITS DEPARTMENT
BRYAN HALL, 816-969-1234

NOTE:

KNOWN UNDERGROUND UTILITIES IN THE VICINITY OF THE WORK ARE SHOWN ON THESE PLANS, ALTHOUGH OTHERS MAY EXIST. THE LOCATIONS SHOWN ARE BELIEVED TO BE REASONABLY CORRECT, BUT DO NOT PURPORT TO BE ABSOLUTELY SO. BEFORE STARTING WORK, THE CONTRACTOR SHALL GIVE NOTICE TO AND OBTAIN INFORMATION FROM EACH OWNER AND OPERATOR OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH THE MISSOURI UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION STATUTE (RSMO CHAPTER 319.015 - 319.050).



COVER SHEET

OLDHAM PARKWAY &
JEFFERSON STREET
STREET LIGHTING
LEE'S SUMMIT, MO. 64086

ORIGINAL ISSUE:
02/28/2025

KHA PROJECT NO.
268132012

SHEET NUMBER

1

Kimley»Horn
© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
806 PENNSYLVANIA AVE, SUITE 150
JEFFERSON CITY, MO 64109
PHONE: 816.625.0380
WWW.KIMLEY-HORN.COM



CITY COMMENTS

03/25/2025

CNH

No.	REVISIONS	DATE	BY

Drawing name: K:\KAC_TPT\0268132012 - Oldham Village Signal\CAD\Parashets11 - LIGHTING PLAN.dwg ELECTRICAL LEGEND AND NOTES Mar 26, 2015 12:09pm by: Clara Heggett
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENERAL NOTES

1. EXISTING UNDERGROUND (U/G), OVERHEAD (O.H.) UTILITIES, AND DRAINAGE STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL CONTRACTOR TO EXACTLY LOCATE EACH UTILITY BEFORE ACTUAL CONSTRUCTION, AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR' S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. IN ADDITION, THE CONTRACTOR SHALL AVOID DISRUPTION OF SERVICES PROVIDED BY THE UTILITIES AND SHALL INSURE THAT PROPER CLEARANCES (OVERHEAD AND UNDERGROUND) ARE MAINTAINED FOR THE DURATION OF CONSTRUCTION. SEE COVER SHEET FOR UTILITY COMPANY CONTACT INFORMATION.

2. SCREW- IN ANCHOR FOUNDATIONS HAVE BEEN ASSUMED FOR ALL AREAS, UNLESS OTHERWISE NOTED IN THE PLANS. IN THE EVENT A SCREW- IN ANCHOR MAY NOT BE INSTALLED, THEN THE CONTRACTOR MAY, AT HIS OWN OPTION, INSTALL THE SCREW- IN ANCHOR WITHIN A PRE- DRILLED HOLE, OR POUR A CONCRETE FOUNDATION. NO CHANGE IN PAYMENT SHALL BE MADE FOR FOUNDATION SUBSTITUTIONS. ALL PRE-DRILLED HOLES SHALL BE BACKFILLED WITH FLOWABLE BACKFILL. ALL CONDUIT TRENCHES SHALL BE BACKFILLED WITH EARTH OR AB- 3 AND PROPERLY COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS. THE TOP 4" TO 6" OF BACKFILL SHALL BE TOPSOIL.

3. FACTORY CONDUIT BENDS (PVC 90- DEGREE ELBOWS) SHALL BE INSTALLED INTO ALL POLE BASES, JUNCTION BOXES, PULL BOXES, AND POWER SUPPLIES. COUPLINGS SHALL BE USED TO TRANSITION BETWEEN HDPE AND PVC CONDUITS.

4. GALVANIZED RIGID STEEL (GRS) CONDUIT IS TO BE USED IF CONDUIT IS TO BE INSTALLED ON A STRUCTURE. ALL GRS CONDUITS THAT ARE TO BE USED SHALL BE CLEANED BY THE CONTRACTOR WITH A MANDREL PRIOR TO INSTALLATION OF CABLE.

5. CONTRACTOR SHALL INSTALL A 3" PVC (SCHEDULE 40) CONDUIT WITH POWER CABLE TO THE BASE OF THE SECONDARY SERVICE POINT. CONTRACTOR SHALL COORDINATE SECONDARY SERVICE CONNECTION WITH THE ELECTRICAL UTILITY COMPANY.

6. BRACKET ARMS SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED ON THE PLANS.

7. ALL SPLICES TO THE DISTRIBUTION CABLE SHALL BE MADE WITH JUNCTION BOXES, PULL BOXES, OR POLE BASES USING REQUIRED CONNECTORS. SPLICES WILL ONLY BE ALLOWED IN JUNCTION OR PULL BOXES WHERE A CIRCUIT BRANCHES. ALL SPLICES IN BOXES SHALL BE PROTECTED WITH A WATERPROOF RESIN SPLICE KIT.

8. ALL DISTRIBUTION CABLES IN JUNCTION BOXES, PULL BOXES, AND POWER SUPPLIES SHALL BE LABELED WITH ROUND ALUMINUM IDENTIFICATION TAGS ATTACHED TO THE CABLES WITH COPPER WIRE. THE POWER SUPPLY AND CIRCUIT NUMBER SHALL BE STAMPED OR ENGRAVED ON EACH TAG.

9. ALL GROUNDING REQUIREMENTS AND NATIONAL ELECTRIC CODE REQUIREMENTS SHALL BE MET FOR THE STREET LIGHTING INSTALLATION TO PREVENT ANY HAZARDS TO THE PUBLIC.

10. ALL EXISTING STREET LIGHTING EQUIPMENT TO BE USED IN PLACE (UIP)
- UNLESS OTHERWISE NOTED. DAMAGE TO ANY EXISTING STREET LIGHTING EQUIPMENT DUE TO THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE EQUIPMENT SHALL BE REPLACED OR REPAIRED (AS DIRECTED BY THE CITY) WITH MATERIALS EQUAL OR BETTER THAN THE EXISTING MATERIAL.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REMOVAL OF EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER(S).

12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO MINIMIZE THE DOWNTIME OF ANY EXISTING STREET LIGHTING SYSTEMS TO BE MODIFIED.

13. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR' S EXPENSE.

14. THE CONTRACTOR SHALL BE REQUIRED TO ATTACH STREET ADDRESSES AND IDENTIFICATION NUMBERS ON THE POWER SUPPLY CABINETS, AND ATTACH THE IDENTIFICATION AND POLE NUMBERS ON EACH STREET LIGHT POLE AS INDICATED IN THE CITY' S STANDARD DRAWINGS. THE LETTERS AND NUMERALS WILL BE PROVIDED BY THE CITY.

PROJECT SPECIFIC NOTES

1. SEE OLDHAM VILLAGE CONSTRUCTION PLANS FOR ROADWAY ALIGNMENT INFORMATION.
2. STREET LIGHT POLES TO BE CENTERED 3' BEHIND BACK OF CURB OR 1' BEHIND BACK OF SIDEWALK WHERE SIDEWALK IS ADJACENT TO CURB.
3. ALL TRAFFIC CONTROL DURING CONSTRUCTION SHALL COMPLY WITH CITY STANDARDS.

STREET LIGHTING QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	EXISTING STREET LIGHT POLE AND LUMINAIRE RELOCATED	5	EA
2	STREET LIGHT POLE (P30S)	8	EA
3	STREET LIGHT POLE (P40S)	12	EA
4	6' BRACKET ARM	13	EA
5	10' BRACKET ARM	2	EA
6	15' BRACKET ARM	5	EA
7	SCREW-IN FOUNDATION (B30)	1	EA
8	SCREW-IN FOUNDATION (B40S)	12	EA
9	CLASS 2 LED LUMINAIRE	20	EA
10	TYPE 1 JUNCTION BOX	1	EA
11	TYPE 2 JUNCTION BOX	1	EA
12	CLASS 1 PULL BOX	1	EA
13	4-CIRCUIT LIGHTING POWER SUPPLY	1	EA
14	2" HDPE CONDUIT	4,100	LF
15	3" HDPE CONDUIT	25	LF
16	3" PVC CONDUIT	120	LF
17	#2 POWER CABLE	400	LF
18	#8 DISTRIBUTION CABLE	13,500	LF
19	#10 POLE AND BRACKET CABLE	3,600	LF
20	BREAK AWAY NON-FUSED CONNECTOR	25	EA
21	BREAK AWAY FUSED CONNECTOR	50	EA
22	MULTI-TAP CONNECTORS	75	EA
22	TRAFFIC CONTROL	1	LS

STREETLIGHTING LEGEND

PROPOSED

- CLASS 2 LED COBRA-HEAD LUMINAIRE W/ 30' POLE
- CLASS 2 LED COBRA-HEAD LUMINAIRE W/ 40' POLE
- CLASS 1 PULL BOX
- TYPE 1 JUNCTION BOX
- TYPE 2 JUNCTION BOX
- PAD MOUNTED POWER SUPPLY (SHADED AREA INDICATES PHOTOCCELL ORIENTATION) (NORTH OR EAST)
- ELECTRICAL SERVICE
- CONDUIT

EXISTING

- LED COBRA-HEAD LUMINAIRE W/ 30' POLE
- CLASS 1 PULL BOX
- JUNCTION BOX
- PAD MOUNTED CONTROL CENTER (SHADED AREA INDICATES PHOTOCCELL ORIENTATION) (NORTH OR EAST)
- ELECTRICAL SERVICE
- CONDUIT

LIGHTING DESIGN CALCULATIONS AND CRITERIA:

OLDHAM PARKWAY

MINIMUM AVERAGE MAINTAINED ILLUMINANCE (TARGET) - 1.1
AVERAGE MAINTAINED ILLUMINANCE (ACTUAL) - 1.27

UNIFORMITY RATIO (TARGET) - 4.00
UNIFORMITY RATIO (ACTUAL) - 2.12

JEFFERSON STREET

MINIMUM AVERAGE MAINTAINED ILLUMINANCE (TARGET) - 1.1
AVERAGE MAINTAINED ILLUMINANCE (ACTUAL) - 1.17

UNIFORMITY RATIO (TARGET) - 4.00
UNIFORMITY RATIO (ACTUAL) - 1.67

DESIGN LUMINAIRE MODEL
ARCH-M-PA2-100-740-U-T3

Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
866 PENNSYLVANIA AVE, SUITE 150
PHILADELPHIA, PA 19106
PHONE: 813-652-0358
WWW.KIMLEY-HORN.COM



GENERAL
NOTES

OLDHAM PARKWAY &
JEFFERSON STREET
STREET LIGHTING
LEE'S SUMMIT, MO. 64086

ORIGINAL ISSUE:

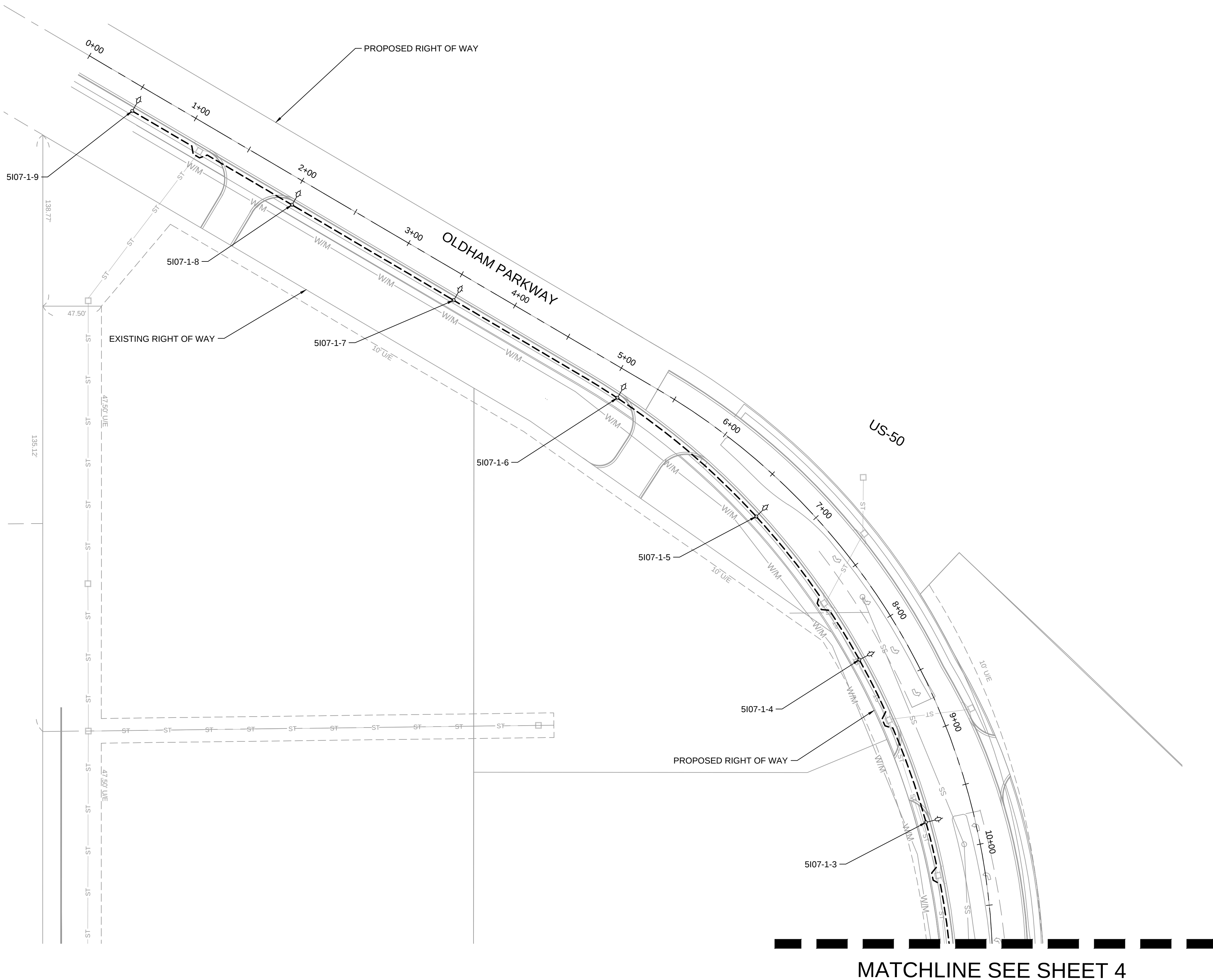
02/28/2025

KHA PROJECT NO.

268132012

SHEET NUMBER

Drawing name: K:\KAC_TPT\0268132012 - Oldham Village Signal\CAD\Drawings\11 - LIGHTING PLAN.dwg Mar 26, 2025, 12:00pm by: Clara Hogsett
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SCHEDULE OF POLES						
POLE NO.	STATION	OFFSET	POLE TYPE	BASE TYPE	BRACKET ARM LENGTH	LED LUMINAIRE
5107-1-9	0+52.7	21.0' RT	P30S	B30	6'	CLASS 2
5107-1-8	2+02.8	21.1' RT	P30S	B30	6'	CLASS 2
5107-1-7	3+55.0	21.4' RT	P30S	B30	6'	CLASS 2
5107-1-6	5+09.5	22.6' RT	P30S	B30	6'	CLASS 2
5107-1-5	6+64.5	34.1' RT	P30S	B30	6'	CLASS 2
5107-1-4	8+18.3	39.8' RT	P30S	B30	6'	CLASS 2
5107-1-3	9+72.3	39.1' RT	P30S	B30	6'	CLASS 2

CITY COMMENTS

03/25/2025

CNH

REVISIONS

DATE

BY

No.

1

SCALE:

AS NOTED

DESIGNED BY: JMW

DRAWN BY: LCJ

CHECKED BY: JMW

STATE OF MISSOURI

JEFFREY WILKE

PROFESSIONAL ENGINEER

NUMBER 42-2007032448

OLDHAM PARKWAY & JEFFERSON STREET

STREET LIGHTING

LEE'S SUMMIT, MO. 64086

ORIGINAL ISSUE:

02/28/2025

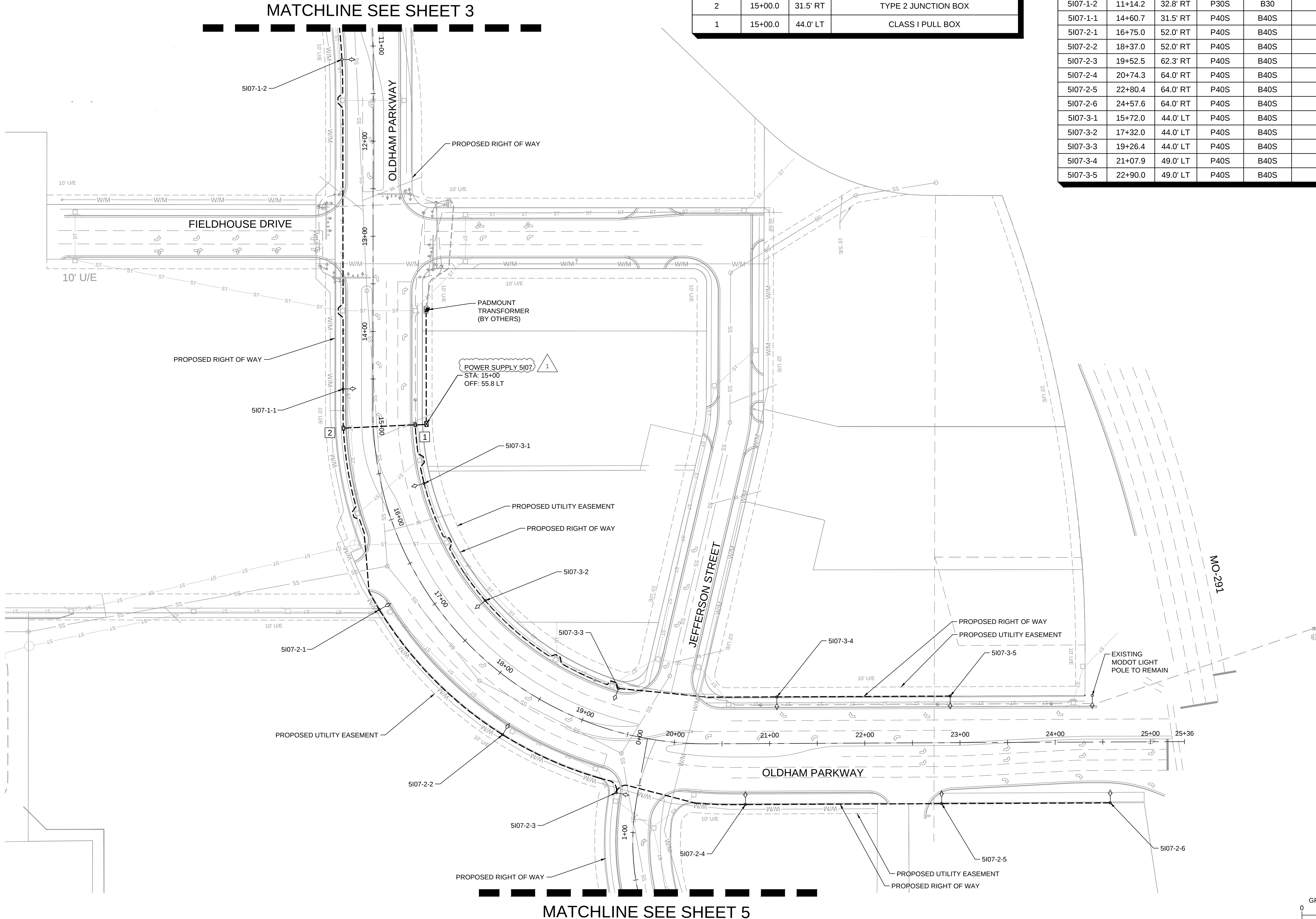
KHA PROJECT NO.

268132012

SHEET NUMBER

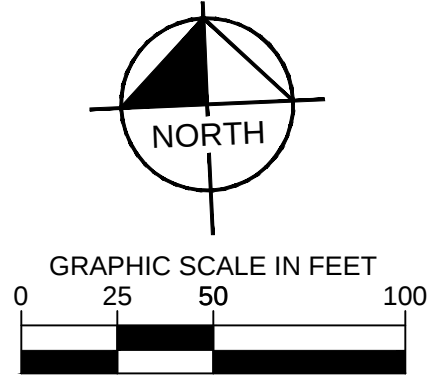
3

Drawing name: K:\K4C_T\PT0268132012 - Oldham Village Signal\CAD\Parasheets\1 - LIGHTING PLAN.dwg Mar 26, 2025, 12:00pm by: Clara Hogsett
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SCHEDULE OF JUNCTION/PULL BOXES			
BOX NO.	STATION	OFFSET	BOX TYPE
2	15+00.0	31.5' RT	TYPE 2 JUNCTION BOX
1	15+00.0	44.0' LT	CLASS I PULL BOX

SCHEDULE OF POLES						
POLE NO.	STATION	OFFSET	POLE TYPE	BASE TYPE	BRACKET ARM LENGTH	LED LUMINAIRE
5107-1-2	11+14.2	32.8' RT	P30S	B30	6'	CLASS 2
5107-1-1	14+60.7	31.5' RT	P40S	B40S	6'	CLASS 2
5107-2-1	16+75.0	52.0' RT	P40S	B40S	10'	CLASS 2
5107-2-2	18+37.0	52.0' RT	P40S	B40S	10'	CLASS 2
5107-2-3	19+52.5	62.3' RT	P40S	B40S	6'	CLASS 2
5107-2-4	20+74.3	64.0' RT	P40S	B40S	15'	CLASS 2
5107-2-5	22+80.4	64.0' RT	P40S	B40S	15'	CLASS 2
5107-2-6	24+57.6	64.0' RT	P40S	B40S	15'	CLASS 2
5107-3-1	15+72.0	44.0' LT	P40S	B40S	6'	CLASS 2
5107-3-2	17+32.0	44.0' LT	P40S	B40S	6'	CLASS 2
5107-3-3	19+26.4	44.0' LT	P40S	B40S	6'	CLASS 2
5107-3-4	21+07.9	49.0' LT	P40S	B40S	15'	CLASS 2
5107-3-5	22+90.0	49.0' LT	P40S	B40S	15'	CLASS 2



CITY COMMENTS

03/25/2025

CNH

DESIGNED BY: JMW

DRAWN BY: LCJ

CHECKED BY: JMW

SCALE: AS NOTED

STATE OF MISSOURI

JEFFREY WILKE

REGISTERED PROFESSIONAL ENGINEER

NUMBER 14-2007032448

LIGHTING PLAN

OLDHAM PARKWAY & JEFFERSON STREET STREET LIGHTING

LEE'S SUMMIT, MO. 64086

ORIGINAL ISSUE: 02/28/2025

KHA PROJECT NO. 268132012

SHEET NUMBER

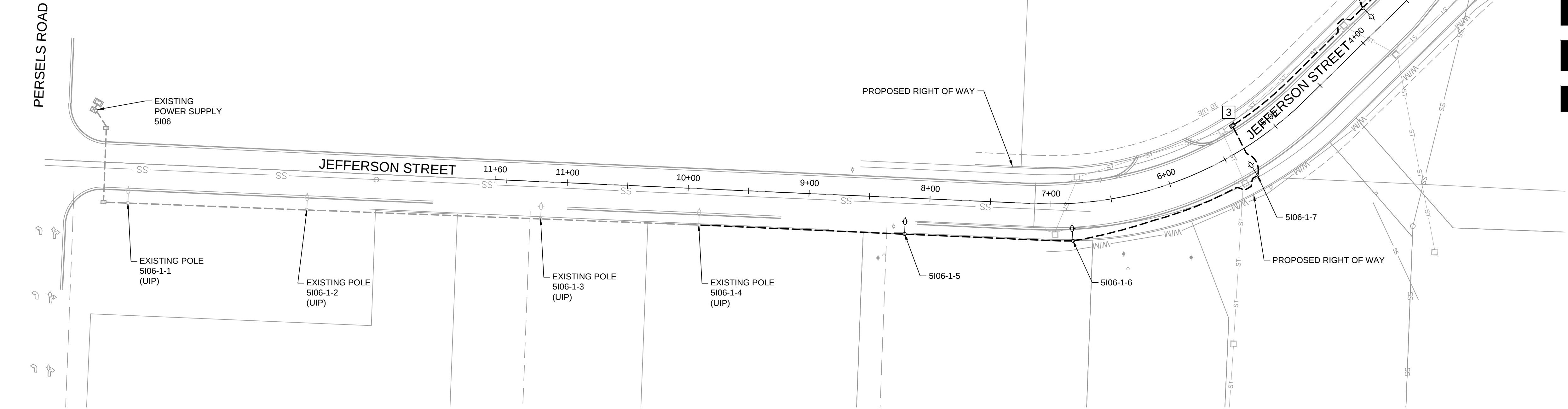
4

REVISIONS

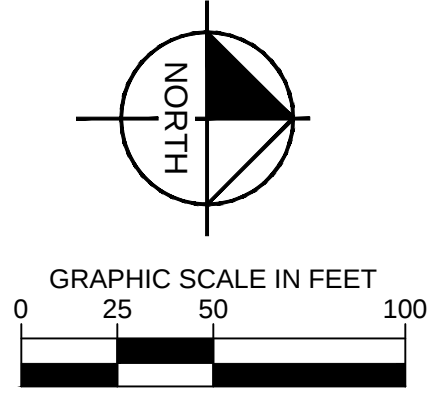
DATE

BY

Drawing name: K:\KAC_T\10268132012 - Oldham Village Signal\CAD\Parasheds11 - LIGHTING PLAN.dwg Mar 26, 2025, 12:00pm by: Clara Hoggett
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- CONSTRUCTION NOTES:**
- REMOVE AND RELOCATE EXISTING STREET LIGHT POLES AND LUMINAIRES:
5106-1-5
5106-1-6
5106-1-7
5106-1-8
5106-1-9
 - REMOVE EXISTING LIGHTING DISTRIBUTION CABLES NORTH OF POLE 5106-1-4. CONNECT NEW DISTRIBUTION CABLES TO EXISTING CABLES IN POLE BASES TO EXISTING CABLES IN POLE BASE. INSTALL NEW MULTI-TAP CONNECTORS IN POLE BASE.

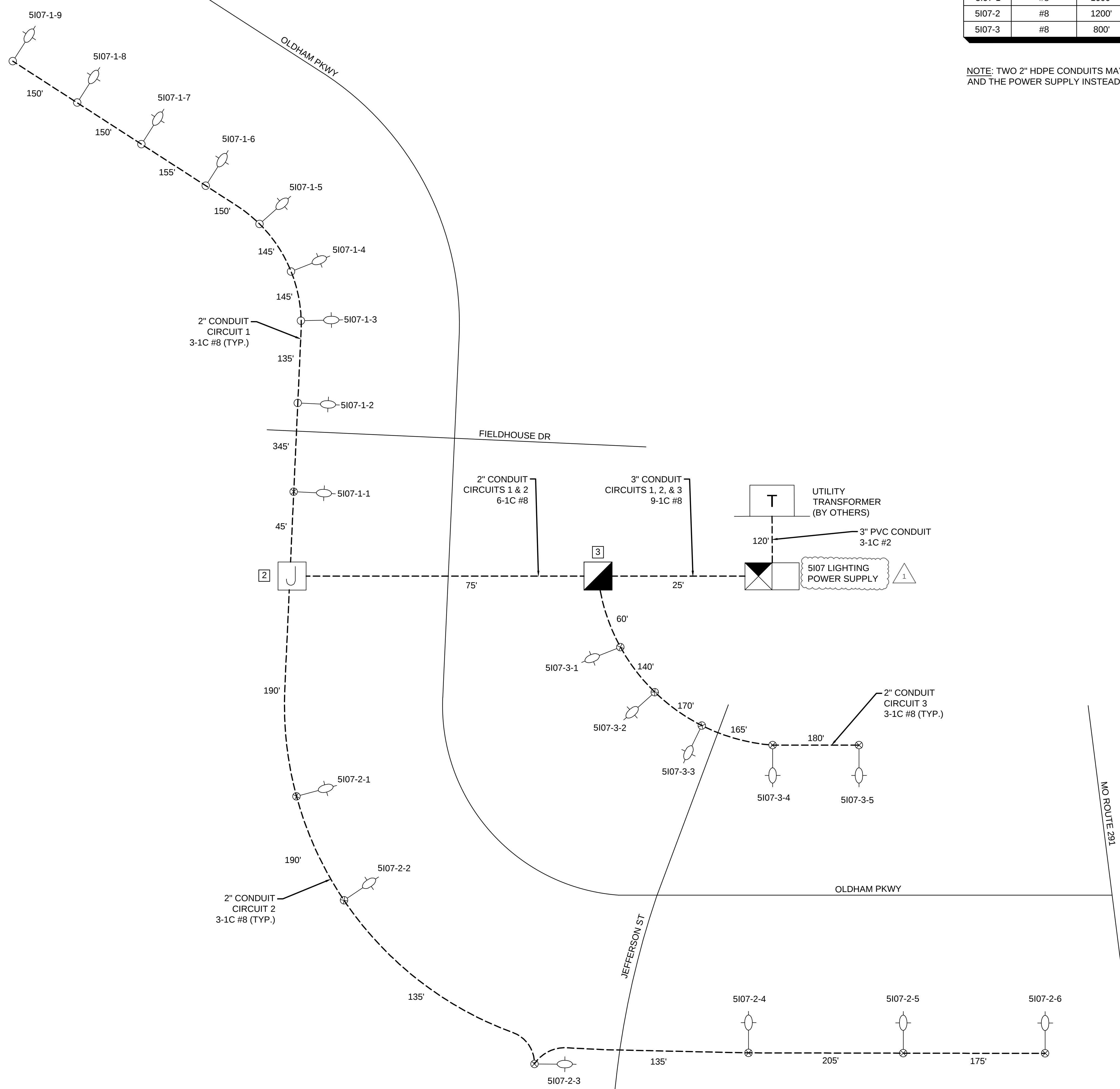


SCHEDULE OF JUNCTION/PULL BOXES			
BOX NO.	STATION	OFFSET	BOX TYPE
3	5+29.8	21.0' RT	TYPE I JUNCTION BOX

SCHEDULE OF POLES						
POLE NO.	STATION	OFFSET	POLE TYPE	BASE TYPE	BRACKET ARM LENGTH	LUMINAIRE TYPE
5106-1-9	2+20.2	21.0' RT	P30S*	B30	6'	150W LED*
5106-1-8	3+80.0	21.0' RT	P30S*	B30	6'	150W LED*
5106-1-7	5+34.0	25.0' LT	P30S*	B30	6'	150W LED*
5106-1-6	6+83.5	31.0' LT	P30S*	B30	6'	150W LED*
5106-1-5	8+19.7	29.9' LT	P30S*	B30	6'	150W LED*

*EXISTING EQUIPMENT TO BE RELOCATED

CITY COMMENTS	CNH	DESIGNED BY: JMW DRAWN BY: LCJ CHECKED BY: JMW	REVISIONS No. DATE BY
		Kimley»Horn © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 866 PENNSYLVANIA AVE, SUITE 150 COVINGTON, MISSISSIPPI 38601 PHONE: 662-625-0350 WWW.KIMLEY-HORN.COM	
LIGHTING PLAN		OLDHAM PARKWAY & JEFFERSON STREET STREET LIGHTING LEE'S SUMMIT, MO. 64086	
		ORIGINAL ISSUE: 02/28/2025 KHA PROJECT NO. 268132012	
		SHEET NUMBER 5	



Circuit Summary Table						
Circuit	Conductor Size	Circuit Length	Input Amperage	Percent Voltage Drop	Circuit Assignment at Power Supply	Circuit Breaker Trip Rating
5I07-1	#8	1600'	3.75	2.43%	3 & 4	15A
5I07-2	#8	1200'	2.50	1.27%	5 & 6	15A
5I07-3	#8	800'	2.08	0.63%	7 & 8	15A

NOTE: TWO 2" HDPE CONDUITS MAY BE INSTALLED BETWEEN BOX 3 AND THE POWER SUPPLY INSTEAD OF ONE 3" HDPE CONDUIT



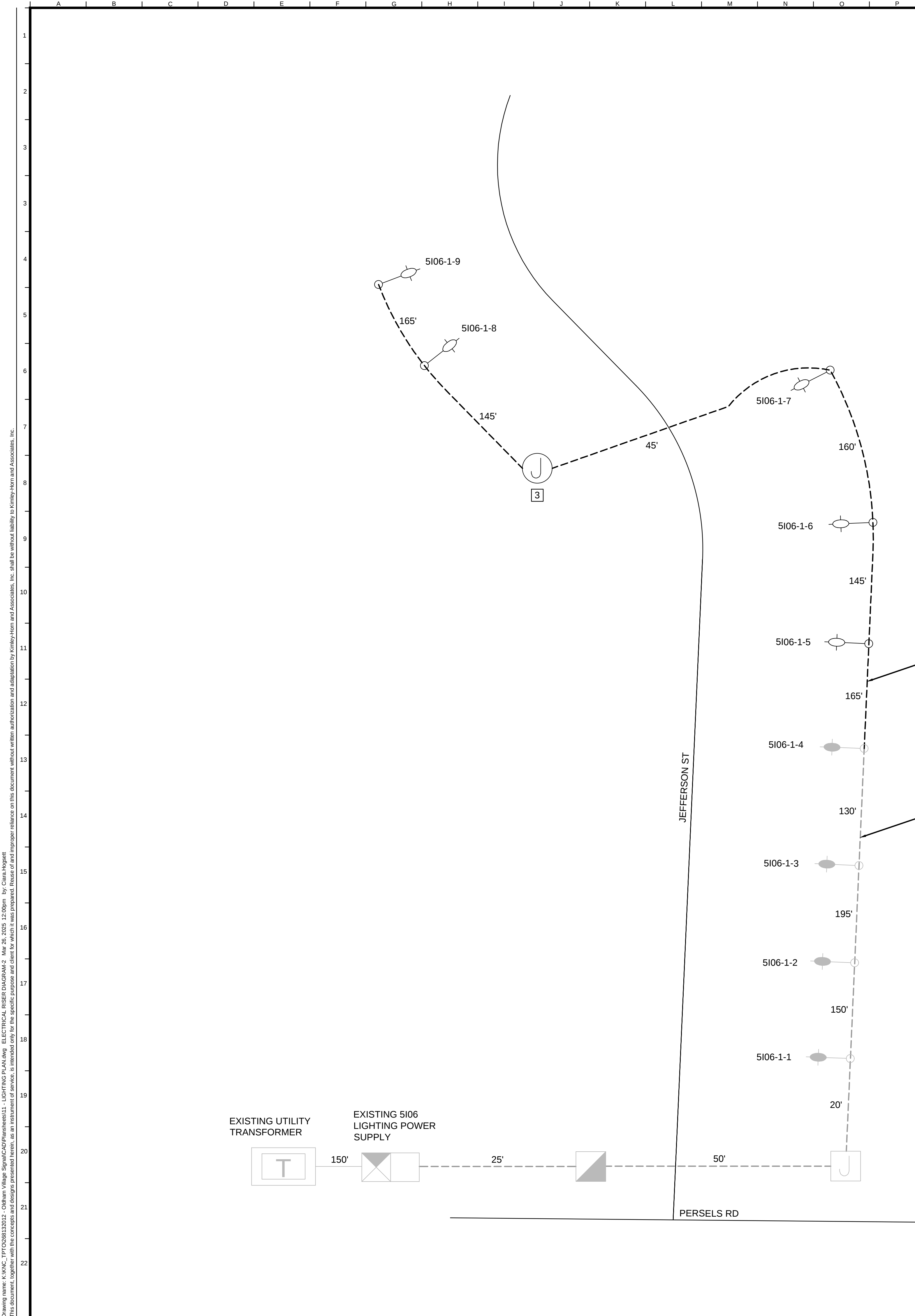
WIRING DIAGRAM

OLDHAM PARKWAY &
JEFFERSON STREET
STREET LIGHTING

ORIGINAL ISSUE:

KHA PROJECT NO
000100010

SHEET NUMBER



CIRCUIT SUMMARY TABLE						
CIRCUIT	CONDUCTOR SIZE	CIRCUIT LENGTH	INPUT AMPERAGE	PERCENT VOLTAGE DROP	CIRCUIT ASSIGNMENT AT POWER SUPPLY	CIRCUIT BREAKER TRIP RATING
1	#8	1400'	4.58	2.07%	3,4	15A

CITY COMMENTS

03/25/2025

CNH

REVISIONS

DATE

BY

SCALE:

AS NOTED

DESIGNED BY: JJW

DRAWN BY: LCJ

CHECKED BY: JJW

STATE OF MISSOURI

JEFFREY WILKE

REGISTERED PROFESSIONAL ENGINEER

NUMBER 14-2007032448

OLDHAM PARKWAY & JEFFERSON STREET STREET LIGHTING

LEE'S SUMMIT, MO. 64086

WIRING DIAGRAM

ORIGINAL ISSUE: 02/28/2025

KHA PROJECT NO. 268132012

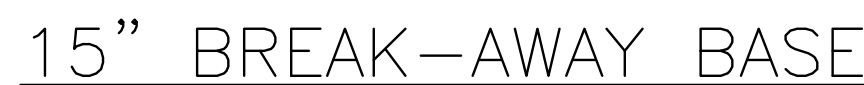
SHEET NUMBER

7

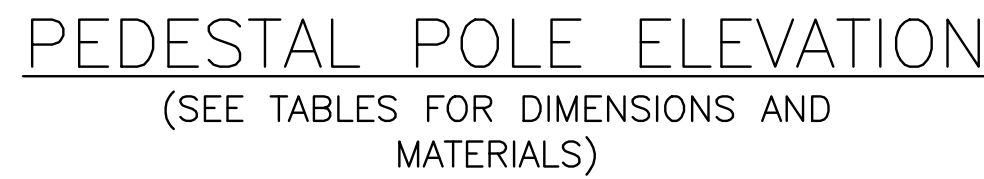
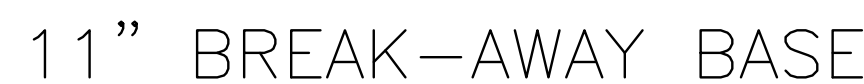
POLE TYPE	MOUNTING HEIGHT (A)	BRACKET ARMS		POLE SHAFT				SHOE BASE	ANCHOR BOLTS		
		LENGTH (B)		BASE O.D.	TOP O.D.	MIN. WALL THICKNESS	SHAFT LENGTH (C)	BOLT CIRCLE (BC)	DIAMETER	LENGTH	HOOK
		ARM 1	ARM 2								
P12	12'	—	—	6"	3"	0.156"	12"—0"	9.5"	0.75" 10NC	25"	3"
P14	14'	—	—	6"	3"	0.156"	14"—0"	9.5"	0.75" 10NC	25"	3"
P30S	30'	6' or 10'	—	8"	6"	0.188"	26"—6" ±2"	11.0"	1.00" 8NC	36"	4"
P30D	30'	6' or 10'	6' or 10'	8"	6"	0.219"	26"—6" ±2"	11.0"	1.00" 8NC	36"	4"
P40S	40'	6', 10' or 15'	—	8"	6"	0.219"	36"—6" ±2"	11.5"	1.00" 8NC	36"	4"
P40D	40'	6', 10' or 15'	6', 10' or 15'	10"	6"	0.219"	36"—6" ±2"	14.5"	1.00" 8NC	48"	4"

1. ALL POLES, ARMS, AND MISCELLANEOUS EQUIPMENT SHALL CONFORM TO THESE DETAILS AND AS SPECIFIED BY THE LATEST CITY STANDARD SPECIFICATIONS.
2. POLE SHAFT SHALL HAVE A SATIN GROUND FINISH.
3. ALL HARDWARE (BOLTS, NUTS, WASHERS BUT NOT INCLUDING ANCHOR BOLTS) NOT OTHERWISE SPECIFICALLY DESIGNATED IN THE SPECIFICATIONS OR DETAILS SHALL BE 300-SERIES STAINLESS STEEL CONFORMING TO ASTM A193 OR A194.
4. ANCHOR BOLTS SHALL BE USED WITH CONCRETE BASES. ANCHOR BOLTS SHALL BE STEEL WITH 50,000 PSI MINIMUM YIELD; TOP 10" MIN. GALVANIZED; INCLUDING 8 NUTS AND 8 FLAT WASHERS GALVANIZED TO ASTM A153 STANDARDS. GALVANIZED HEX HEAD BOLTS (SEE POLE FOUNDATION SHEET) SHALL BE USED WITH SCREW-IN ANCHOR BASES. 4 BOLTS, 4 NUTS AND 8 FLAT WASHERS TO PROVIDED WITH EACH ANCHOR.
5. ALL WELDING IS TO BE DONE WITH 4043 WELD WIRE. ALL ARMS AND SHAFTS ARE TO BE HEAT-TREATED TO T6 TEMPER AFTER WELDING.
6. ANCHOR BOLTS SHALL PROJECT ABOVE THE CONCRETE BASE AS PER MANUFACTURER'S RECOMMENDED PRACTICES, 2½" TO 3".
7. THE ALUMINUM STREET LIGHT POLE ASSEMBLY, INCLUDING ANCHORAGE AND LUMINAIRE, SHALL COMPLY WITH THE LATEST CITY STANDARD SPECIFICATIONS AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD WIND LOADING.
8. ALL POLES AND ARMS SHALL BE CLEARLY IDENTIFIED BY THE MANUFACTURER'S NAME, ABBREVIATION, OR SYMBOL ENGRAVED ON THE SHAFT, SHOE BASE, HAND HOLE, OR OTHER MEANS SUCH AS TO BE READILY VISIBLE AFTER INSTALLATION.

COMPONENT	ALUMINUM ALLOY DESIGNATION	SPECIFICATION
SHOE BASE	356-T6, CAST	ASTM B26 OR B108
BREAKAWAY BASE	356-T6, CAST	ASTM B108
BOLT COVERS	356 OR 360, CAST	ASTM B26 OR B108
POLE SHAFT	6063-T6, EXTRUDED	ASTM B221 OR B241
GROUND LUG	6061-T5 OR 6063-T6, PLATE	ASTM B221
REINFORCED HANDHOLE FRAME	356-T6 OR 6061-T6	ASTM B26, B108 OR B221
HANDHOLE COVER	6063-T6	ASTM B209, B221 OR B241
BRACKET ARM & TUBING PIPES	6063-T6	ASTM B221, B241 OR B249
BRACKET ARM MOUNTING PLATES	6061-T6 OR 6063-T6 EXTRUDED	ASTM B221
BRACKET ARM STRUT & ARM CONNECTOR	AU6061-T6 OR 6063-T6 EXTRUDED	ASTM B221, B241 OR B249
POLE CAP	356, CAST	ASTM B26 OR B108
ANCHOR BOLTS	N/A	GALVANIZED PER ASTM A153



1. DOOR SHALL BE ON THE SAME SIDE OF THE POLE AS THE HAND HOLE.
2. BASE CONFORMS TO BREAKAWAY CRITERIA OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (1994).

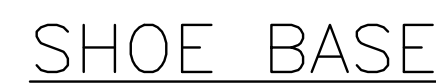


USE 2-3/4" O.D. X 1-1/16"
I.D. X 1/2" THICK WASHER FOR
1" DIA. ANCHORAGE ON TOP
AND BOTTOM BOLT CIRCLE

14-1/2" TO
15-1/4" DIA.
B.C.

11-1/2" DIA.
OPENING

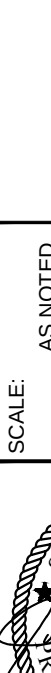
TOP



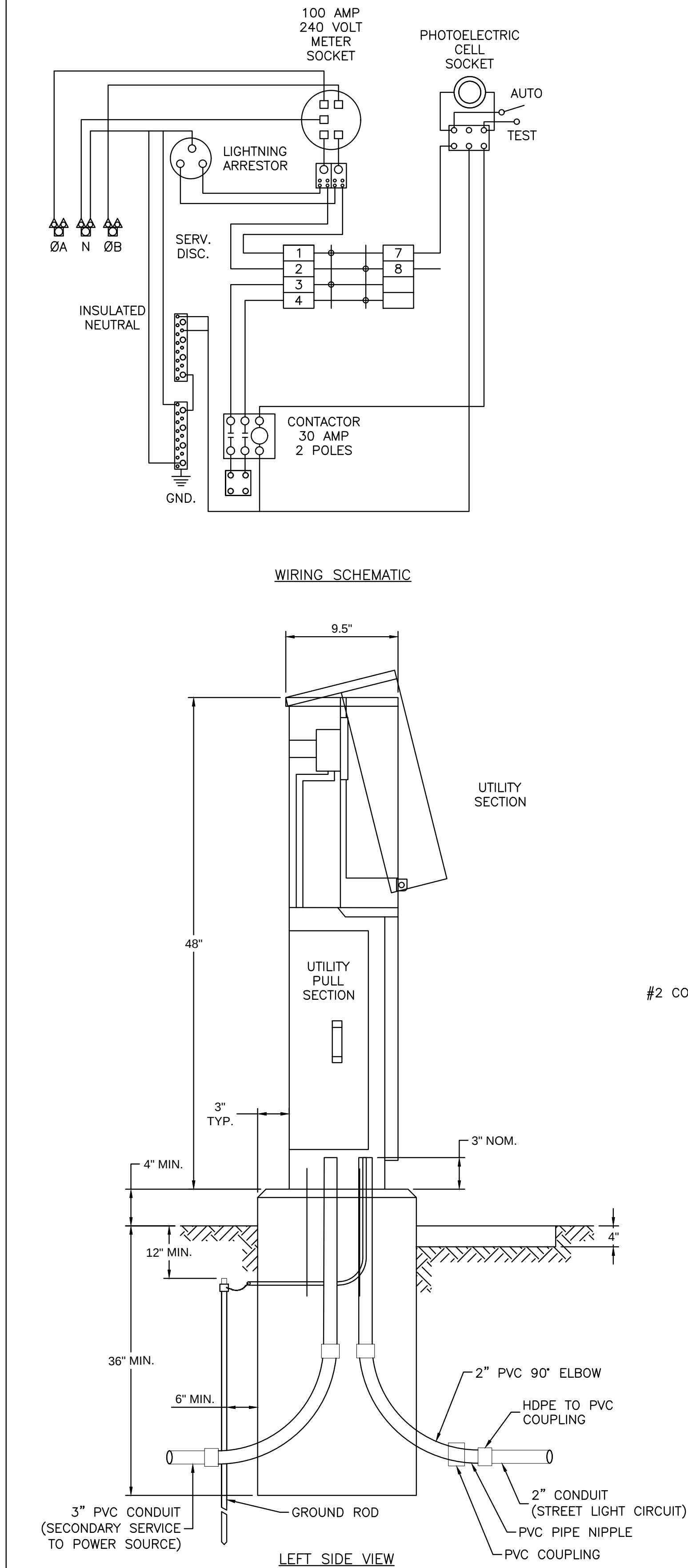
(4) 1"-8NC X 4" LONG GALV.
HEX HEAD BOLT SAE GR. 5
(8) 1/2" GALV. WASHER 2-3/4" O.D.
(4) 1" GALV. HEX. NUT
(4) 1" GALV. FLAT WASHER
(4) 1" LOCK WASHER



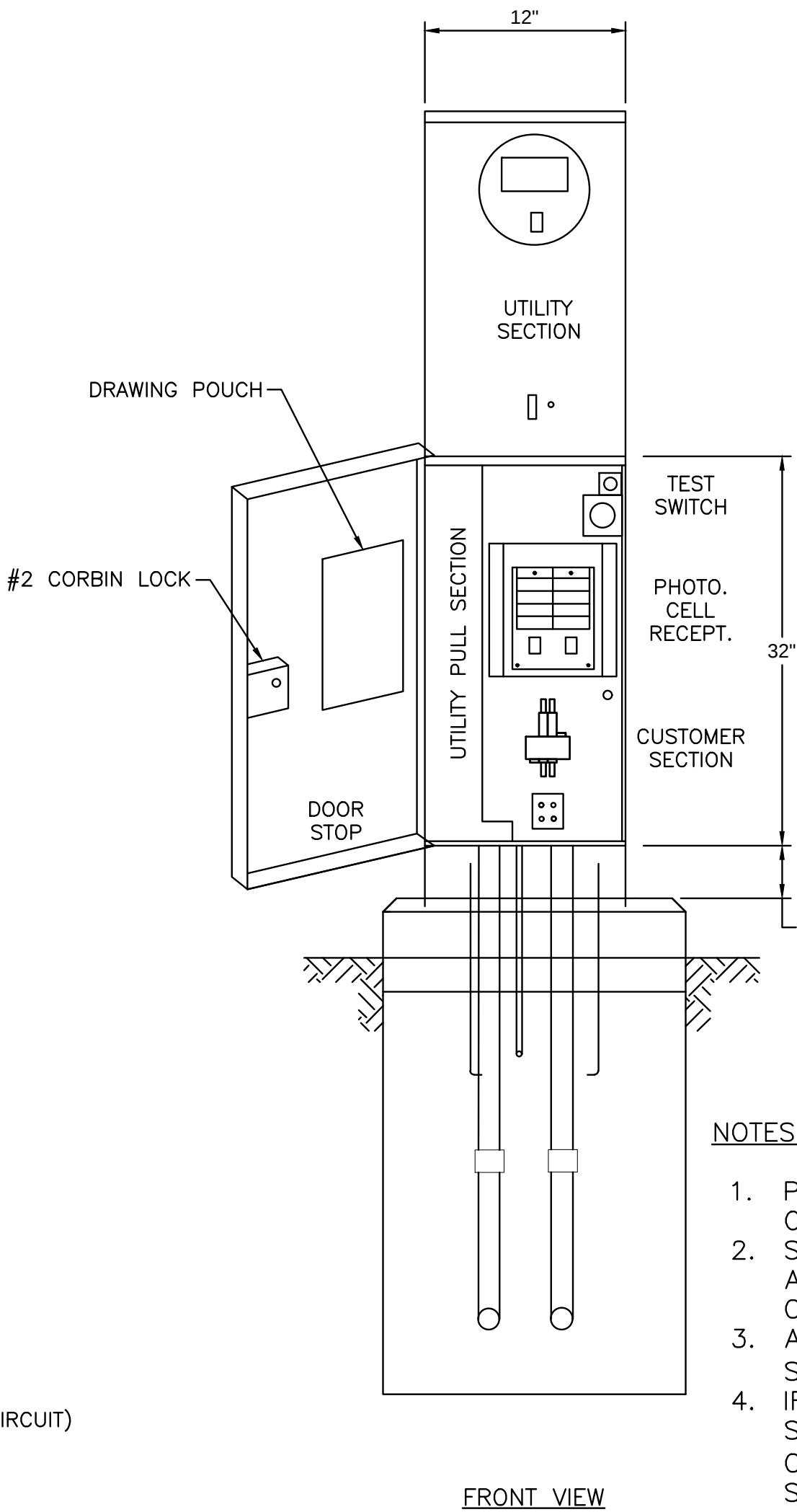
Drawn By: KHA
Checked By:
Date: 02/2025
1 OF 5
SL-1

OLDHAM PARKWAY & JEFFERSON STREET STREET LIGHTING LEE'S SUMMIT, MO, 64086		POLE DETAILS				Kimley»Horn © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 805 PENNSYLVANIA AVE, SUITE 150 LEE'S SUMMIT, MO 64086 PHONE: 816-652-0589 WWW.KIMLEY-HORN.COM		SCALE: AS NOTED DESIGNED BY: JMW DRAWN BY: LCJ CHECKED BY: JMW		CITY COMMENTS		03/25/2025		CNH	
								REVISIONS				DATE		BY	
								NO.							

Drawing name: K:\K4C_T\PI\0268132012 - Oldham Village Signal\CAD\Parasheets\15 - STREET LIGHT POWER SUPPLY DETAILS.dwg Layout1: Mar 26, 2025, 12:01pm By: Clara Hoggett
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



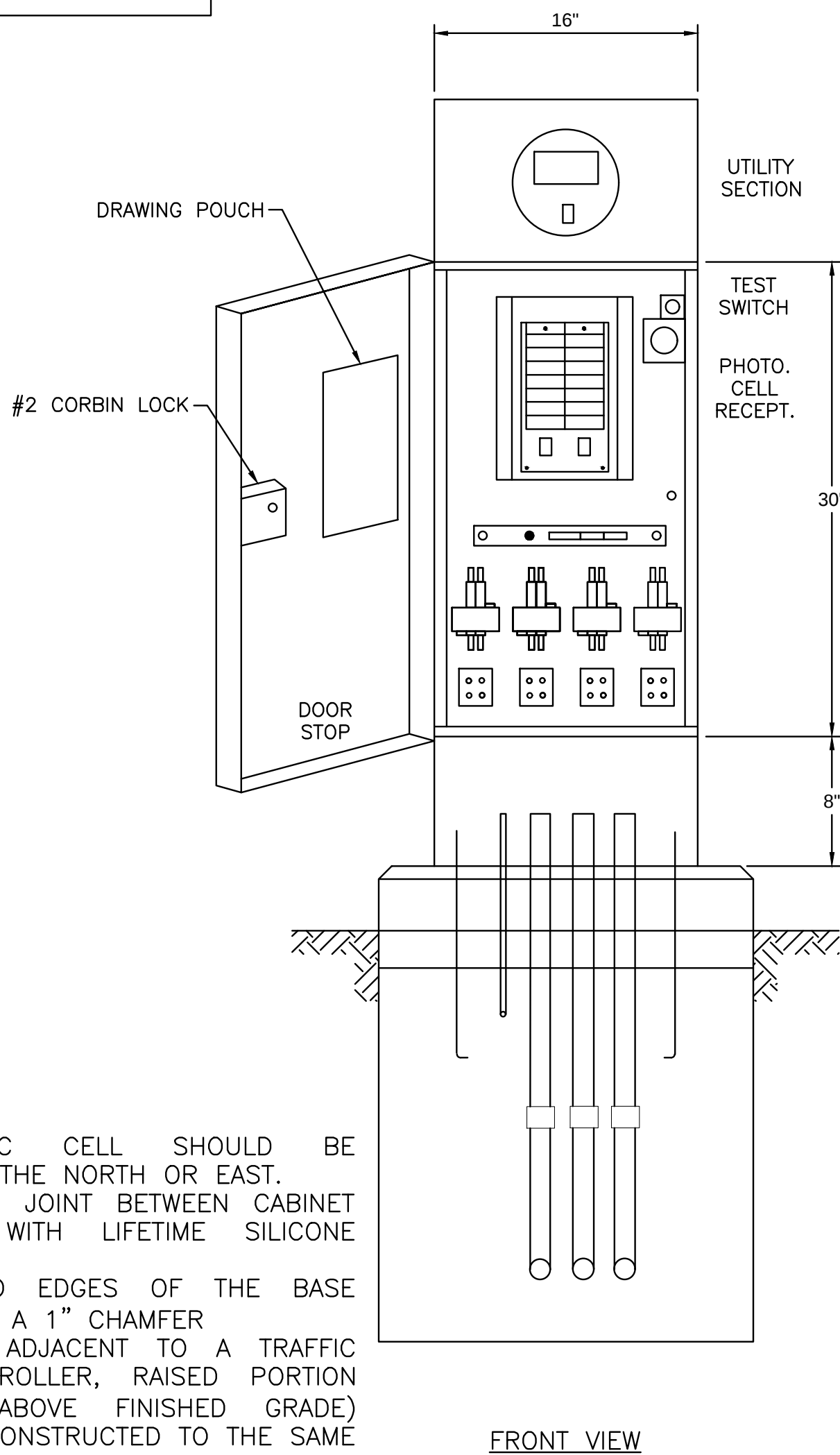
1 - CIRCUIT POWER SUPPLY



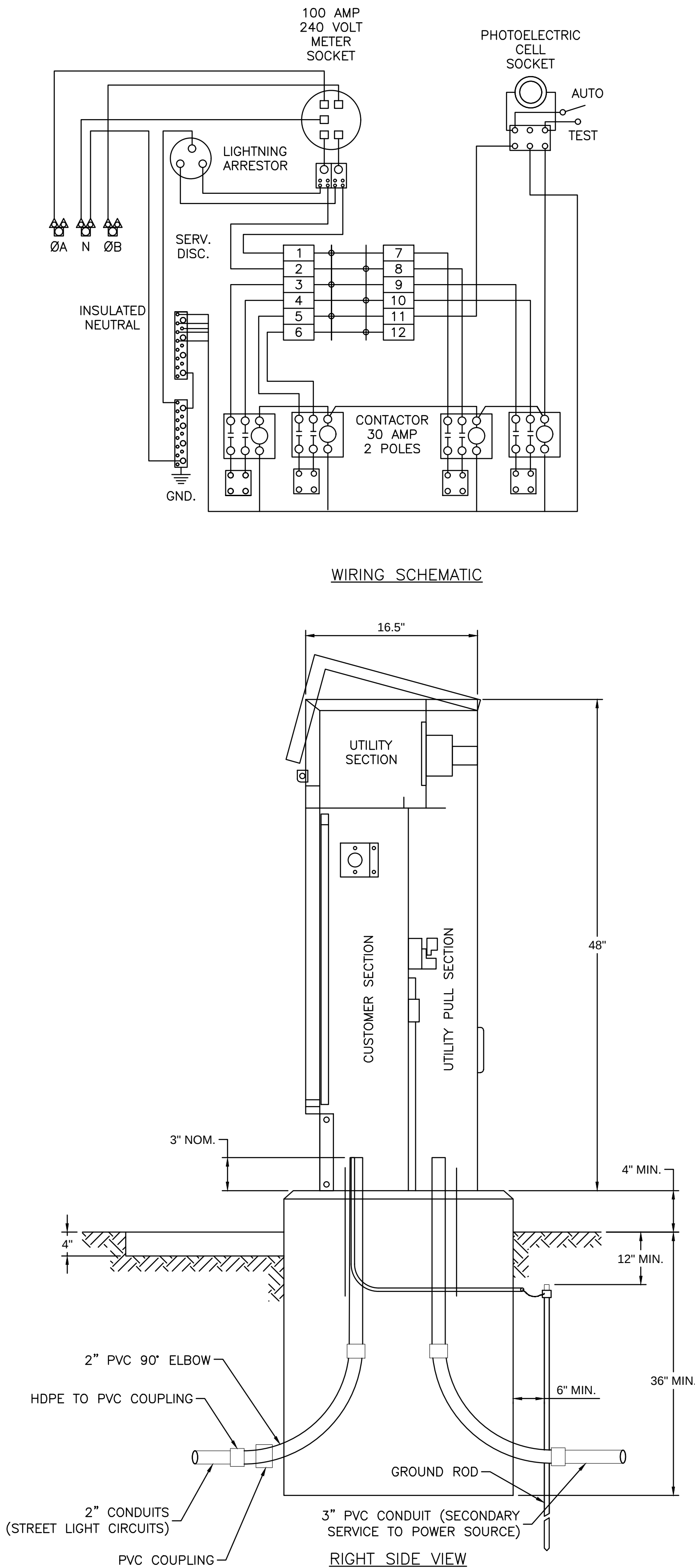
NOTES:

1. PHOTOELECTRIC CELL SHOULD BE ORIENTED TO THE NORTH OR EAST.
2. SEAL AROUND JOINT BETWEEN CABINET AND BASE WITH LIFETIME SILICONE CAULK.
3. ALL EXPOSED EDGES OF THE BASE SHOULD HAVE A 1" CHAMFER
4. IF BASE IS ADJACENT TO A TRAFFIC SIGNAL CONTROLLER, RAISED PORTION OF BASE (ABOVE FINISHED GRADE) SHOULD BE CONSTRUCTED TO THE SAME HEIGHT AS THE SIGNAL CONTROLLER BASE.
5. THE STREET ADDRESS WITH THE POWER SUPPLY NUMBER BELOW IT SHOULD BE LABELED ON THE UPPER PORTION OF THE CABINET FACING THE STREET. THE CITY WILL SUPPLY STICKERS FOR THE CONTRACTOR TO INSTALL.

FUSED CONTRACTORS ARE NOT PERMITTED



4 - CIRCUIT POWER SUPPLY



LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STREET LIGHT STANDARD DETAILS
Sheet Name: POWER SUPPLY DETAILS

Drawn By: KHA
Checked By:
Date: 02/2025

4 OF 5
SL-4

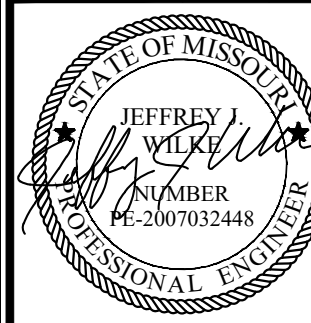
POWER SUPPLY DETAILS

OLDHAM PARKWAY & JEFFERSON STREET STREET LIGHTING
LEE'S SUMMIT, MO. 64066

ORIGINAL ISSUE: 02/28/2025
KHA PROJECT NO. 268132012
SHEET NUMBER

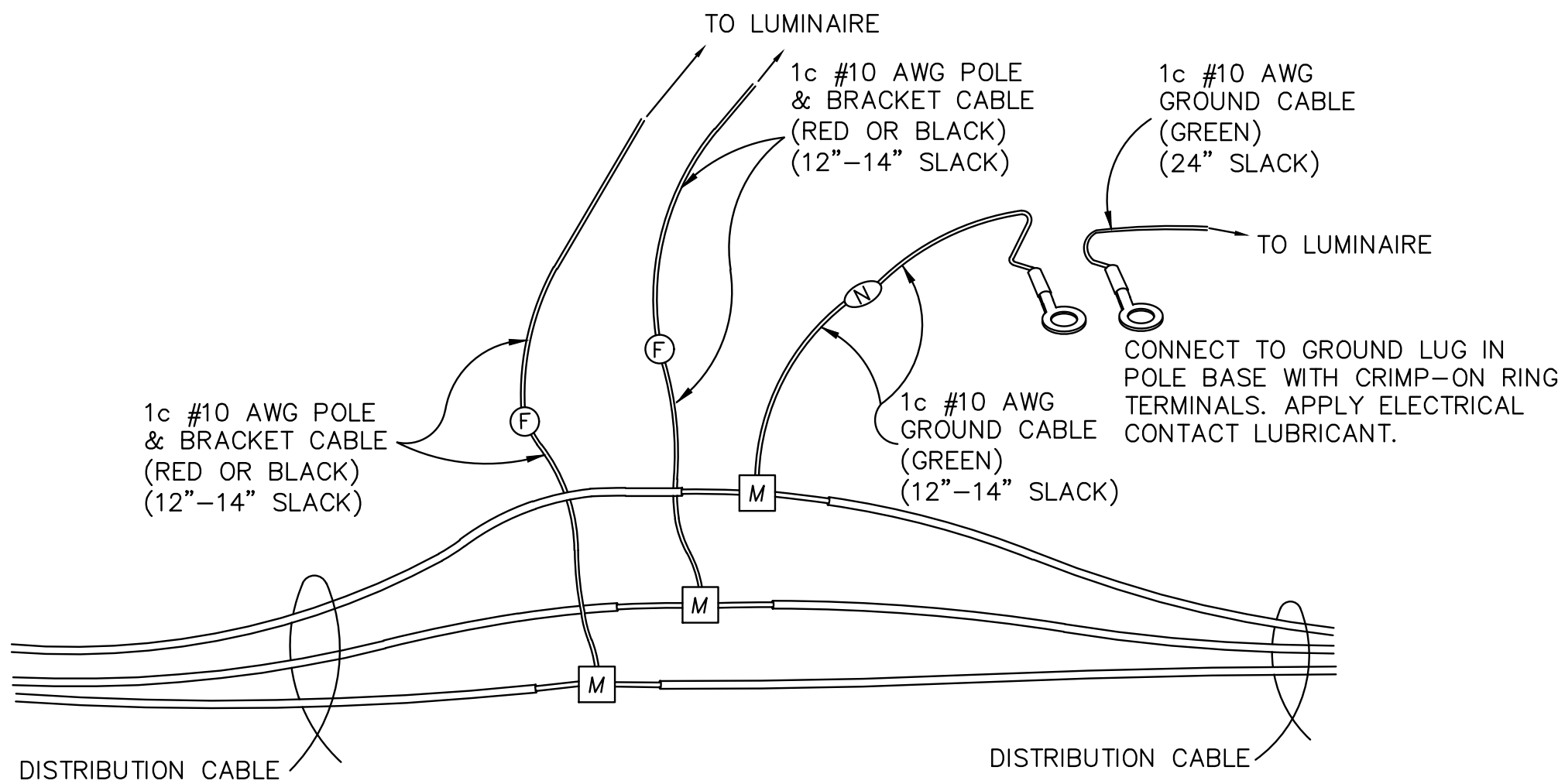
11

CITY COMMENTS		REVISIONS		DATE	BY
CNH		No.			
03/25/2025					

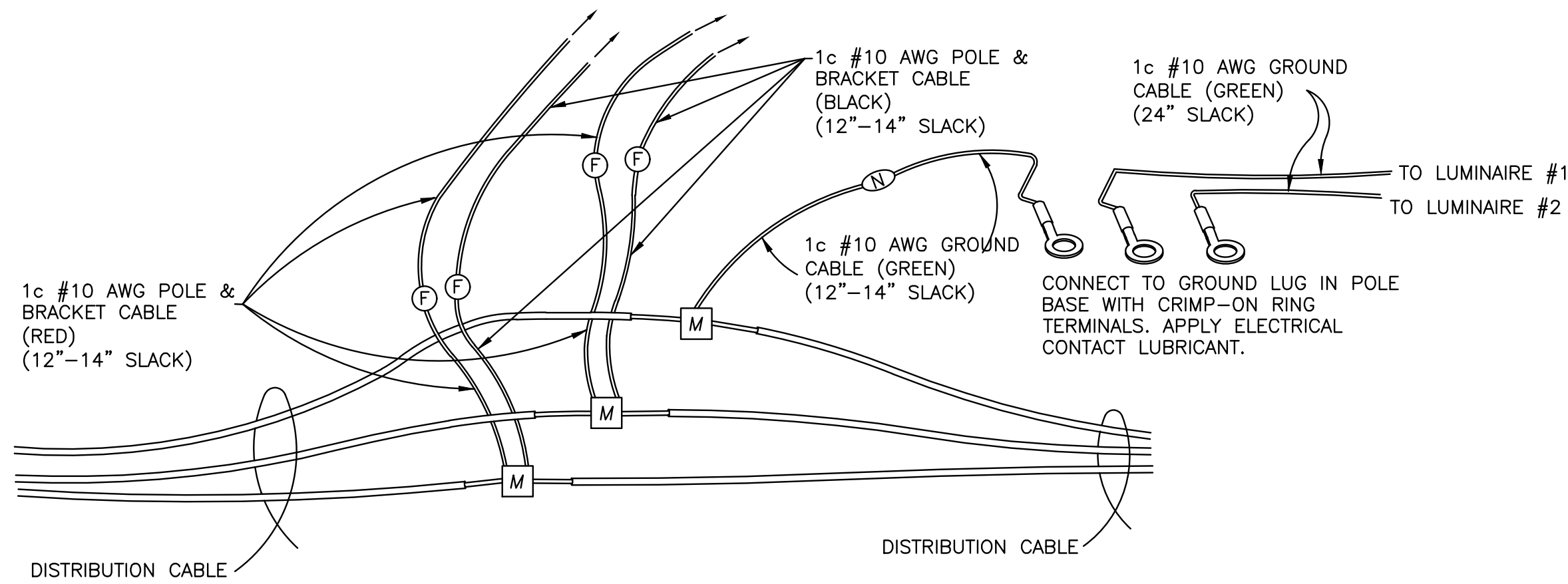


Kimley»Horn
© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
806 PENNSYLVANIA AVE., SUITE 150
ST. LOUIS, MO 63101
PHONE: 314.625.0350
WWW.KIMLEY-HORN.COM

Drawing name: K:\K4C_T\PI\0208132012 - Oldham Village Signal\CAD\Parasheets\06 - STREET LIGHT ELECTRICAL DETAILS.dwg layout1 Mar 26, 2024, 12:03pm by: Chana Heggestad
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



BREAK AWAY ELECTRICAL CONNECTOR SCHEMATIC
(SINGLE LUMINAIRE)



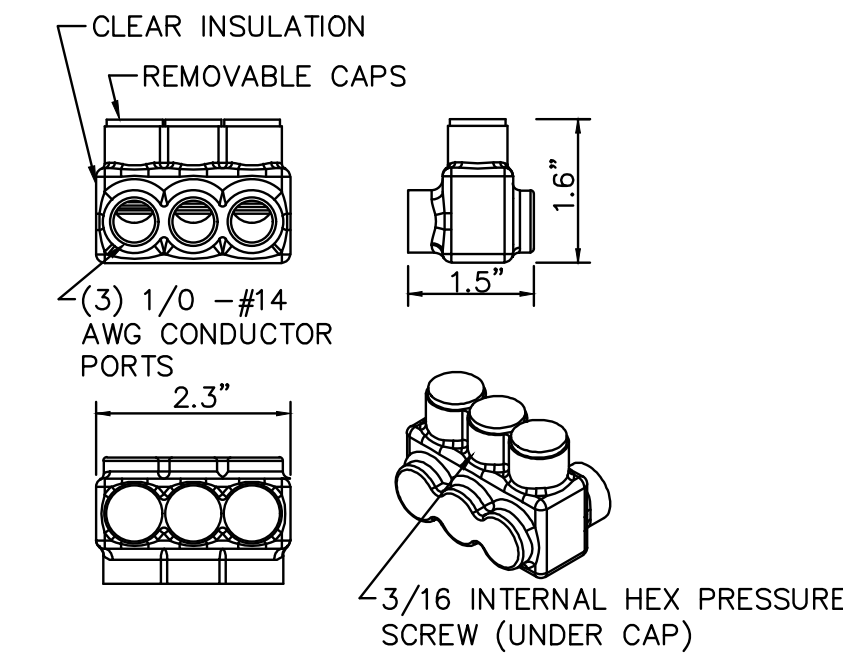
BREAK AWAY ELECTRICAL CONNECTOR SCHEMATIC
(DUAL LUMINAIRES)

LEGEND

- M MULTI-TAP ELECTRICAL CONNECTOR
F BREAK AWAY FUSED ELECTRICAL CONNECTOR WITH 8 AMP FUSE
N BREAK AWAY NON-FUSED ELECTRICAL CONNECTOR WITH GROUND "SLUG"

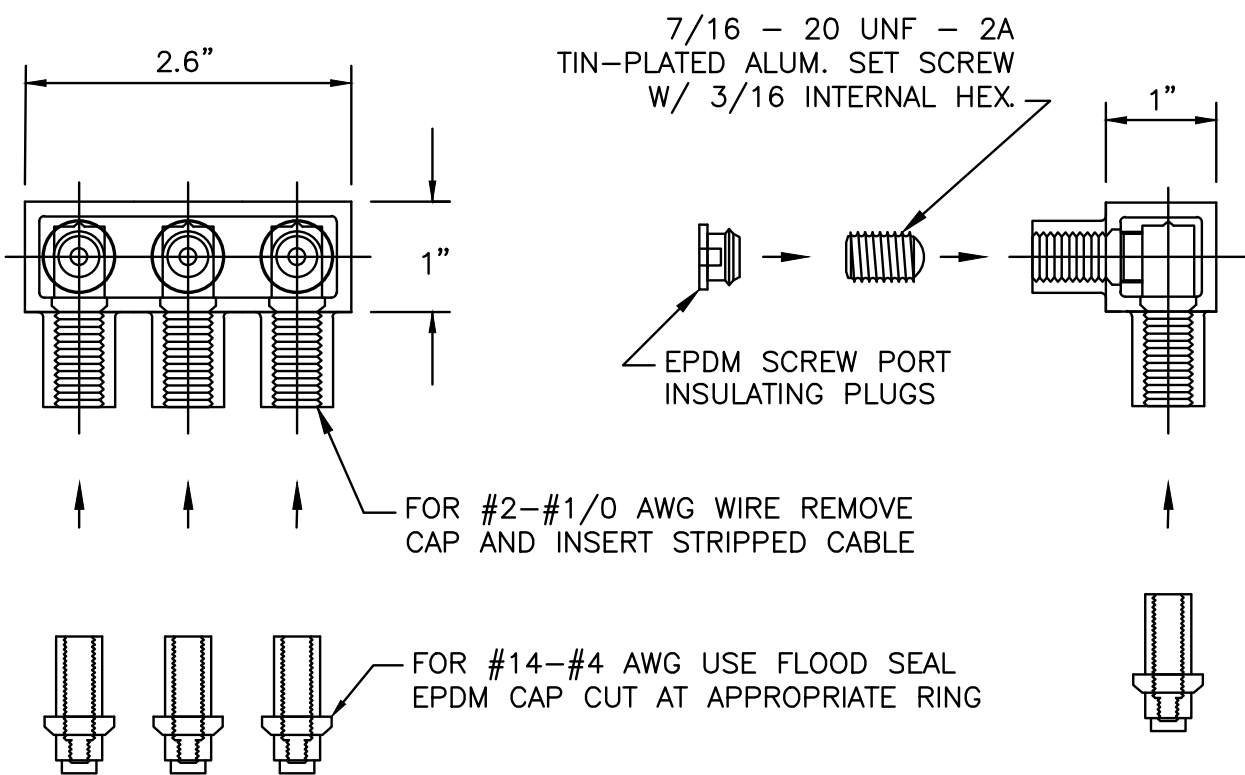
NOTES:

1. WHEN LOOKING AT THE HAND HOLE OPENING ON THE POLE, RED CABLES SHALL BE RUN TO THE LUMINAIRE ON THE RIGHT-HAND SIDE OF THE POLE, AND BLACK CABLES SHALL BE RUN TO THE LUMINAIRE ON THE LEFT-HAND SIDE OF THE POLE.
2. THE SPECIFIED CABLE SLACK SHALL BE PROVIDED ON EACH SIDE OF THE FUSED AND NON-FUSED CONNECTORS.
3. ADDITIONAL SLACK SHALL BE PROVIDED FOR THE DISTRIBUTION CABLE SUCH THAT WHEN EXTENDED UPWARD, THE TOP OF THE MULTI-TAP CONNECTORS ARE NO LESS THAN 1" AND NO MORE THAN 3" ABOVE THE TOP OF THE HAND HOLE OPENING.

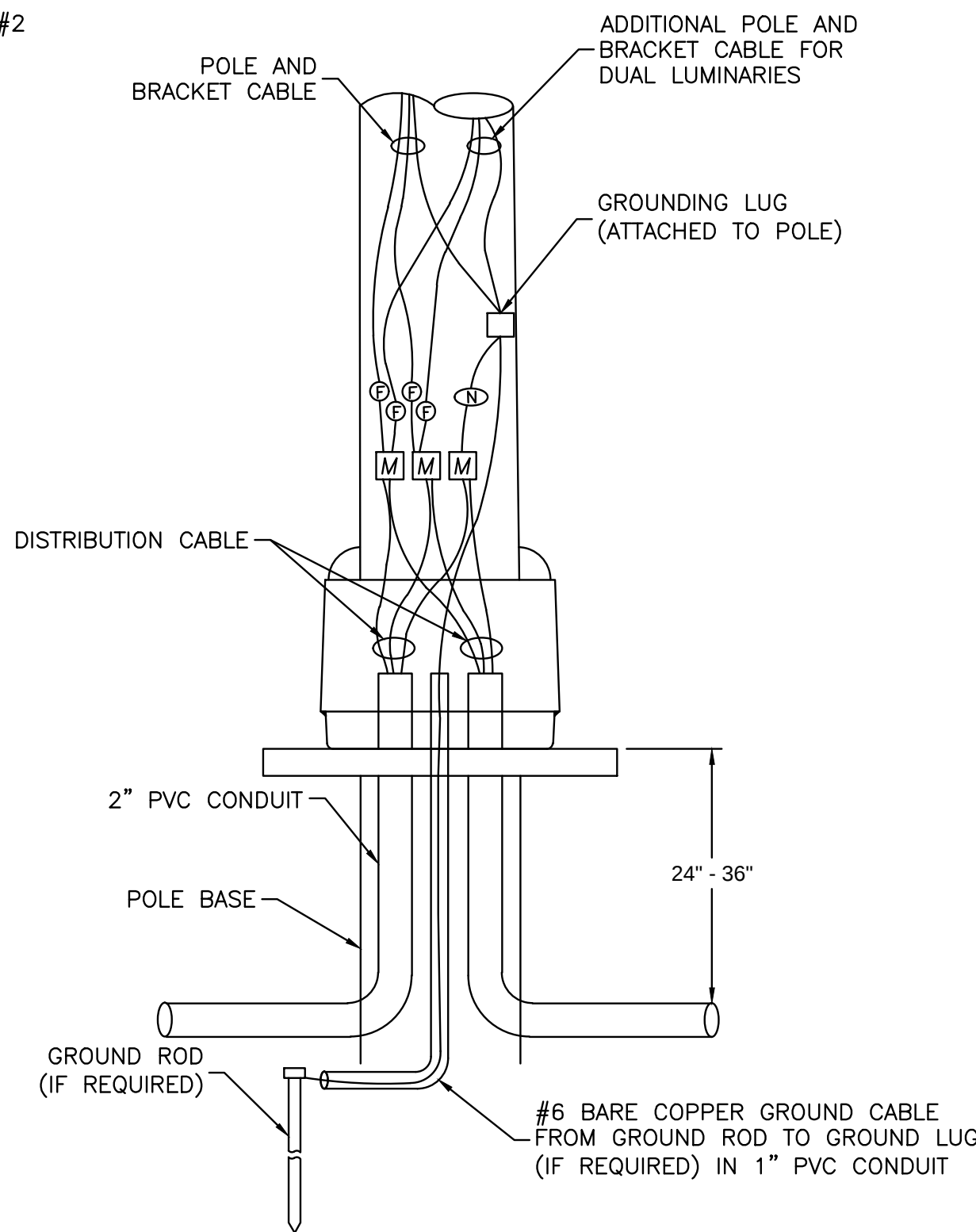


- NOTES:
1. CONNECTOR PRE-FILLED W/ OXIDE INHIBITOR.
 2. CONNECTOR MANUFACTURED FROM 6061-T6511 ALUM. ALLOY.

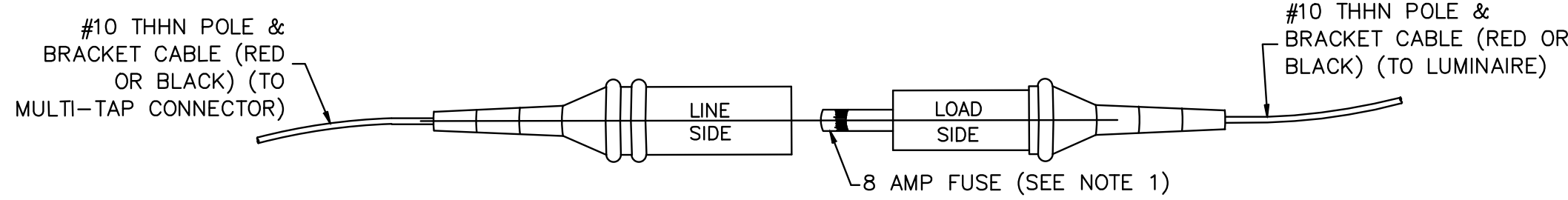
MULTI-TAP CONNECTOR



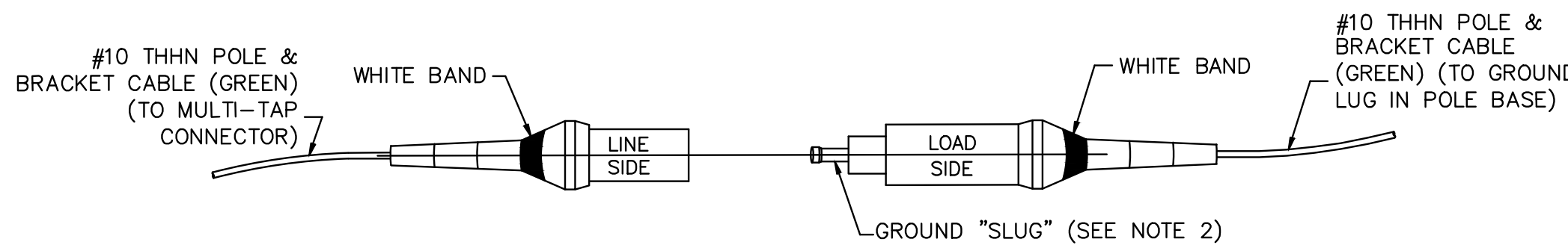
SUBMERSIBLE
MULTI-TAP CONNECTOR



POLE WIRING DETAILS

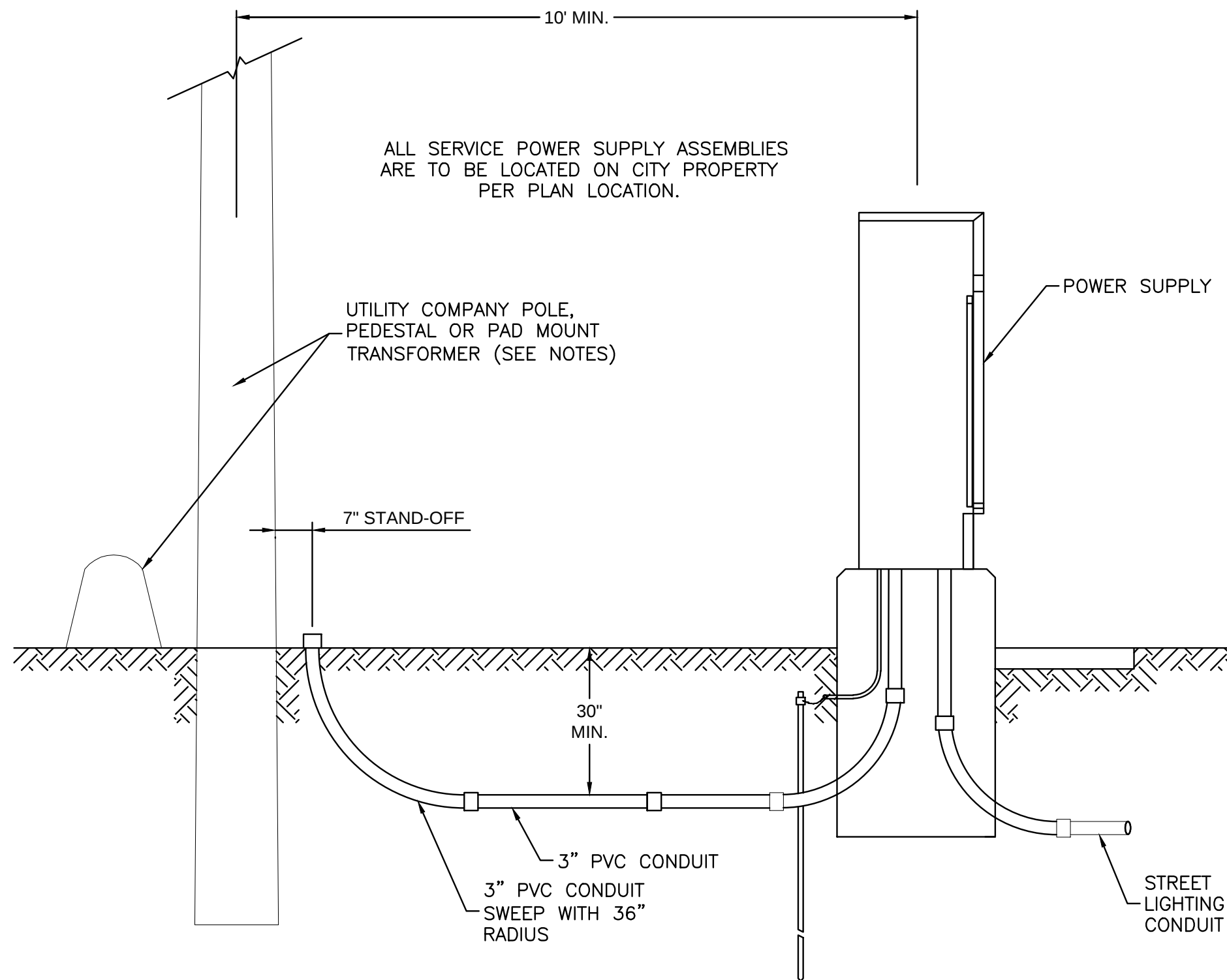


BREAK AWAY FUSED ELECTRICAL CONNECTOR



BREAK AWAY NON FUSED ELECTRICAL CONNECTOR

- NOTES:
1. FUSE REMAINS IN "LOAD SIDE" AFTER BREAK AWAY.
 2. GROUND "SLUG" REMAINS IN "LINE SIDE" AFTER BREAK AWAY.



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.

LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STREET LIGHT
STANDARD DETAILS

ELECTRICAL DETAILS

ELECTRICAL
DETAILS

OLDHAM PARKWAY &
JEFFERSON STREET
STREET LIGHTING
LEE'S SUMMIT, MO, 64066

Drawn By: KHA
Checked By:
Date: 02/2025

5 OF 5

SL-5

ORIGINAL ISSUE:
02/28/2025
KHA PROJECT NO.
268132012
SHEET NUMBER