



**PADUCAH & LOUISVILLE RAILWAY
LICENSE AGREEMENT FOR WIRE, PIPE AND CABLE TRANSVERSE CROSSING AND
LONGITUDINAL OCCUPATIONS**

THIS AGREEMENT, made and entered into _____, between Paducah & Louisville Railway, Inc., a KY Corporation which has a mailing address at 200 Clark Street Paducah, Kentucky 42003 party of the first part (hereinafter called "Railroad") and Board of Education of Jefferson County, Kentucky operating as Jefferson County Public Schools, having a mailing address at 3332 Newburg Road, Louisville, Kentucky 40218, as party of the second part (hereinafter called "Licensee").

WITNESSETH, that the said Railroad (which when used herein shall include any lessor, successor or assignee of or operator over its railroad) insofar as it has the legal right and its present title permits, and in consideration of the covenants and conditions hereinafter stated on the part of the Licensee to be kept and performed, hereby permits, as a temporary license, the Licensee to construct, maintain, repair, alter, renew, relocate and ultimately remove an underground transverse wireline crossing consisting of one (1) 6.625-inch HDPE conduit containing two (2) 1.25-inch HDPE innerducts, one of which contains one (1) 48-strand FOC in Crums Ln AAR/DOT #296815U at Mile Post 5.5, at or near Louisville, Jefferson County, KY in accordance with construction plans and application marked Exhibit "A" submitted by Licensee to and approved by the Railroad, incorporated herein by reference; all and any part thereof being hereafter referred to as the "FACILITIES"; said license, however, shall be under and subject to the following terms, covenants, and conditions as hereinafter recited, which are hereby accepted and agreed to, by the Licensee, to wit:

1. The Licensee shall pay to Railroad upon the execution hereof, the sum of \$1,900.00 as a one-time document processing fee and \$2,300.00 as a one-time fee.

(a) The FACILITIES shall be located, constructed and maintained in exact accordance with said construction plans and for the purposes as outlined on Page one (1). No departure shall be made at any time therefrom except upon permission in writing granted by the Railroad, provided, however, that if any commission or other regulatory body duly constituted and appointed in compliance with the laws of the State in which the crossing or occupancy herein provided its statute, and having jurisdiction in the premises, has by ruling or other general order determined and fixed the manner and means of construction, maintenance, repair, alteration, renewal, relocation or removal thereof, then said ruling or general order shall prevail for the crossing or occupancy herein mentioned.

(b) The work of constructing, maintaining, repairing, altering, renewing, relocating or removing the said FACILITIES shall be done under such general conditions as will be satisfactory to and approved by the Railroad, and as will not interfere with the proper and safe use, operation and enjoyment of the property of the Railroad. Licensee, at its own cost and expense, shall, when performing any work in connection with the FACILITIES, furnish any necessary inspectors, flagmen or watchmen to see that men, equipment and materials are kept a safe distance away from the tracks of the Railroad.

(c) In addition to, but not in limitation of any of the foregoing provisions, if at any time the Railroad should deem inspectors, flagmen or watchmen desirable or necessary to protect its operations or property, or its employees, patrons or Licensees during the work of construction, maintenance, repair, alteration, renewal, relocation or removal of said FACILITIES of Licensee, the Railroad shall have the right to place such inspectors, flagmen or watchmen at the sole risk, cost and expense of Licensee to the extent permitted by applicable law, which covenants and agrees to bear the full cost and expense thereof and to promptly reimburse the Railroad upon demand to the extent permitted by applicable law. The furnishing or failure to furnish inspectors, flagmen or watchmen by the Railroad, however, shall not release the Licensee from any and all other liabilities assumed by the Licensee under the terms of this Agreement.

3. If the Licensee desires or is required, as herein provided, to revise, renew, add to or alter in any manner whatsoever the aforementioned FACILITIES, it shall submit plans to Railroad and obtain written approval of Railroad thereto before any work or alteration of the structure is performed and the terms and conditions of this Agreement with respect to the original construction shall apply thereto. Railroad reserves the right to make adjustments in the charges.

(a) The Licensee shall at all times be obligated to promptly maintain, repair and renew said FACILITIES; and shall, upon notice in writing from Railroad and requiring it so to do, promptly make such repairs and renewals thereto as may be required by Railroad; or the Railroad, for the purpose of protecting and safeguarding its property, traffic, patrons or employees from damage or injury, may with or without notice to the Licensee at any time make such repairs and renewals thereto and furnish such material therefor as it deems adequate and necessary, all at the sole cost and expense of Licensee.

(b) In the event of an emergency, Licensee will take immediate steps to perform any necessary repairs, and in the event Licensee fails to do so, Railroad will perform said necessary repairs at the sole cost and expense of Licensee.

5. (a) The supervision over the location of the construction work and inspection of the FACILITIES and the approval of the material used in construction, maintenance, repair, alteration, renewal, relocation and removal of the aforesaid FACILITIES covered by this Agreement shall be within the jurisdictional rights of the Railroad.

(b) The right of supervision over the location of the construction work and inspection of the FACILITIES from time to time thereafter by the Railroad, shall extend for an appropriate distance on each side of the property of the Railroad as the method of construction and materials used may have an important bearing upon the strength and stability of the FACILITIES over, under, upon or in the property of the Railroad.

6. Licensee shall comply with all Federal, State and local laws, and assume all cost and expense and responsibility in connection therewith, without any liability whatsoever on the part of the Railroad.

7. (a) It is understood between the parties hereto that the operations of the Railroad at or near said FACILITIES involve some risk, and the Licensee as part of the consideration for this license to the extent permitted by applicable law hereby release and waives any right to ask for or demand damages for or account of loss of or injury to the FACILITIES (and contents thereof) of the Licensee that are over, under, upon, or in the property and facilities of the Railroad including the loss of or interference with service or use thereof and whether attributable to the fault, failure or negligence of the Railroad or otherwise.

(b) And to the extent permitted by applicable law, the Licensee also covenants and agrees to and shall at all times indemnify, protect and save harmless the Railroad from and against all cost or expense resulting from any and all losses, damages, detriments, suits, claims, demands, costs and charges which the said Railroad may directly or indirectly suffer, sustain or be subjected to by reason or on account of the construction, placement, attachment, presence, use, maintenance, repair, alteration, renewal, relocation or removal of said FACILITIES in, on, about or from the premises of Railroad whether such losses and damages be suffered or sustained by the Railroad directly or by its employees, patrons, or licensees, or by suffered or sustained by other persons or corporations, including the Licensee, its employees and agents who may seek to hold the Railroad liable therefor, and whether attributable to the fault, failure or negligence of the Railroad or otherwise, except when proved by Licensee to be due directly to the sole negligence of the Railroad.

(c) If a claim or action is made or brought against either party and for which the other party may be responsible hereunder in whole or in part, such other party shall be notified and permitted to participate in the handling or defense of such matter.

8. All cost and expenses in connection with the construction, maintenance, repair, alteration, renewal, relocation and removal of said FACILITIES shall be borne by the Licensee, and in the event of work performed or material furnished by Railroad under the stipulated right to perform such work of construction, maintenance, repair, alteration, renewal, relocation or removal under any section hereof, to the extent permitted by applicable law, Licensee agrees to pay to the Railroad the actual cost of material plus the current applicable overhead percentages for storage, handling, transportation, purchasing and other related material management expenses and the actual cost of labor plus the current applicable overhead percentages as developed and published by the accounting department of Railroad for fringe benefits, payroll taxes, administration, supervision, use of tools, machinery and other equipment, supplies, employers liability insurance, public liability insurance, and other insurance, taxes and all other indirect expenses. It is to be understood that the aforementioned material and labor overhead charges are to be applied at the rates which are effective at the time of the performance of any work by employees of the Railroad on the said FACILITIES. Licensee agrees to pay such bills (to the extent permitted by applicable law) within thirty (30) days of the presentation thereof by Railroad.

9. Licensee shall provide the Insurance coverage as set forth in Exhibit "B", Insurance Requirements, attachment hereto. Proof of satisfactory insurance pursuant to the Insurance Requirements is necessary prior to the execution of this Agreement by Railroad.

10. The Licensee shall, at its sole cost and expense, upon request in writing of the Railroad, promptly change the location of said FACILITIES covered by this Agreement, where located over, upon, or in the property and facilities of the Railroad, to another location, to permit and accommodate changes of grade or alignment and improvement in or additions to the facilities of the Railroad upon land now or hereafter owned or used by the Railroad to the intent that said construction shall at all times comply with the terms and conditions of this Agreement with respect to the original construction; or in the event of the License, sale or disposal of the premises or any part thereof encumbered by this license, then the said Licensee shall make such adjustments or relocations in its facilities as are over, upon or in the property and facilities of the Railroad as may be required by the said

railroad or its grantee; and if the Licensee shall fail or refuse to comply therewith, then the duly authorized agents of the Railroad may make such repairs or adjustments or changes in the location and provide necessary material therefor.

11. Upon termination of the Agreement or upon the removal or abandonment of the FACILITIES covered hereby, all the rights, title and interest of the Licensee hereunder shall cease and determine, and this instrument shall thereupon become and be null and void, without any liability on the part of either party to the other party except only as to any rentals and liability accrued prior thereto, and the Licensee shall remove its said FACILITIES and appurtenances from Railroad property, and right-of-way and all property of the Railroad shall be restored in good condition and to the satisfaction of the Railroad. If the Licensee fails or refuses to remove its FACILITIES and appurtenances under the foregoing conditions, the Railroad shall be privileged to do so at the cost and expense of the Licensee, and the Railroad shall not be liable in any manner to the Licensee for said removal.

12. In the event the FACILITIES consist of an underground occupation, Licensee will be responsible for any settlement caused to the roadbed, right-of-way and/or tracks, facilities, and appurtenances of the Railroad arising from or as a result of the installation of the said FACILITIES for a period of one (1) year subsequent to the date of completion of the installation, and Licensee agrees to pay to Railroad on demand the full cost and expense thereof.

13. In the event the said FACILITIES consist of electrical power or communication wires and/or appurtenances, the Licensee shall at all times be obligated promptly to remedy any inductive interference growing out of or resulting from the presence of its FACILITIES; and if the Licensee should fail so to do, then Railroad may do so, and the Licensee agrees to pay to Railroad on demand the full cost and expense therefor.

14. As part of the consideration of the within Agreement, Licensee covenants and agrees that no assessments, taxes or charges of any kind shall be made against Railroad or its property by reason of the construction of said FACILITIES of Licensee, and Licensee further covenants and agrees to pay to Railroad promptly upon bills rendered therefor the full amount of any assessments, taxes or charges of any kind which may be levied, charged, assessed or imposed against the Railroad or its property by reason of the construction and maintenance of said FACILITIES of Licensee.

15. The rights conferred hereby shall be the privilege of the Licensee only, and no assignment or transfer hereof shall be made, or other use be permitted than for the purposes stated on page one (1) without the consent and agreement in writing of the Railroad being first had and obtained.

16. This Agreement with the rights granted may be terminated at any time by either party hereto upon not less than thirty (30) days written notice to the other; and upon the expiration of the said thirty (30) days after service of such notice, this Agreement and the permission and privilege hereby granted shall absolutely cease and terminate.

17. This Agreement shall take effect upon execution hereof.

The terms of this Agreement shall be binding and effective upon all the parties hereto, and unless and until terminated, as hereinbefore provided, this Agreement shall inure to the benefit of and be binding upon the parties hereto, their successors and assigns, subject, however, to the provisions of Article 15, of this Agreement.

18. Any Notice required or permitted to be served under the terms of this Agreement shall be sent by certified mail, postage fully prepaid, and return receipt requested, to the parties at the following addresses:

To Railroad: Paducah & Louisville Railway
200 Clark Street
Paducah, Kentucky 42003
Attn: Manager – Real Estate

To Licensee: Board of Education of Jefferson County, Kentucky
3332 Newburg Road
Louisville, Kentucky 40218
Attn: Legal Department

or at such other address as the respective parties may from time to time give notice of.

19. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one instrument. This Agreement may be validly executed and delivered by telephonic facsimile transmission, e-mail transmission, or other electronic means including, without limitation, through the use of DocuSign or similar service, and the signatures on such electronic copies, whether generated electronically or manually, shall be deemed to be original signatures.

IN WITNESS WHEREOF, the said parties hereto have caused this Agreement to be duly executed in duplicate and delivered as of the day and year first above written.

PADUCAH & LOUISVILLE RAILWAY, INC.
(as Railroad)

BOARD OF EDUCATION OF JEFFERSON COUNTY,
KENTUCKY
(as Licensee)

By: _____

By: _____

Name: Jason Murray

Name: _____

Title: VP Right of Way Services

Title: _____

Witness as to Railroad

Witness as to Licensee

Name:

Name: _____

Exhibit A Summary

Exhibit A on the following page

Summary Table

1.	License #	PL-VF-001
2.	Railroad	Paducah & Louisville Railway
3.	Licensee	Board of Education of Jefferson County, Kentucky
4.	Description of Work	Install an underground transverse wireline crossing consisting of one (1) 6.625-inch HDPE conduit containing two (2) 1.25-inch HDPE innerducts, one of which contains one (1) 48-strand FOC in Crums Ln AAR/DOT #296815U at Mile Post 5.5
5.	City, County, State	Louisville, Jefferson, KY
6.	Mile Post	5.5
7.	Latitude/Longitudinal Coordinates	38.19028700000/-85.80528500000

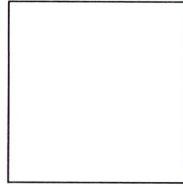


vero
NETWORKS
1033 WALNUT ST
BOULDER, CO 80502
TEL 303-443-4660

Fullerton
DESIGN DEVELOP CONSTRUCT
1100 E WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL 847-908-3400
www.fullerton-us.com

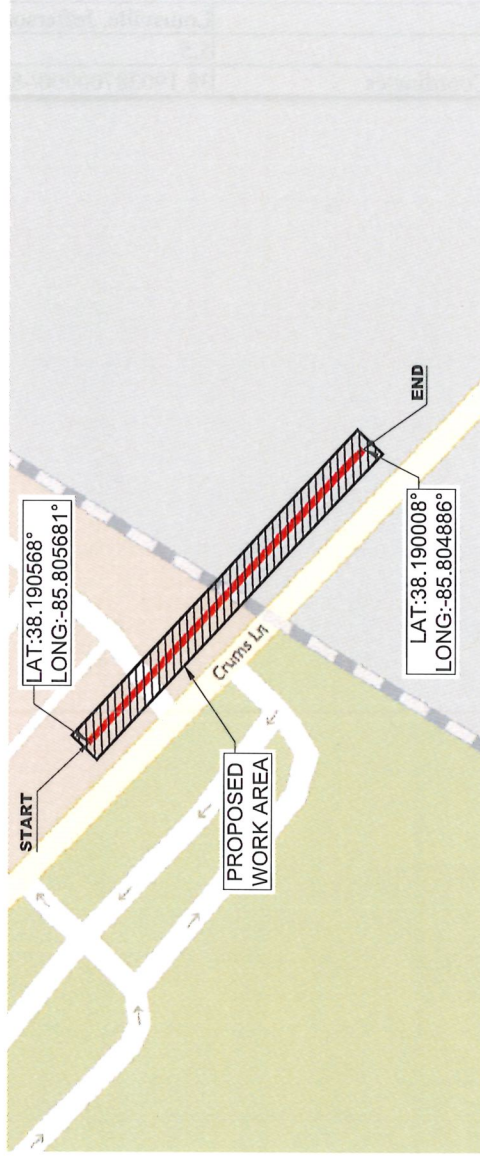
#	DATE	DESCRIPTION	INT
A	11/21/25	S02S REVIEW	RT
D	03/31/26	100% FINAL	INT

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.



PROJECT NAME
VERO-LOUISVILLE-KY
SEGMENT
CRUMS LN
CITY, COUNTY, STATE
LOUISVILLE, KY
JEFFERSON COUNTY

SHEET SCALE
N.T.S.
SHEET NAME
TITLE PAGE
SHEET NUMBER
T-1



LOCATION MAP

CONTACT	PROJECT DESCRIPTION	APPLICABLE CODES	ENGINEERING BILL OF MATERIALS
OWNER: VERO NETWORKS ALEX ARISTIZABAL AARISTIZABAL@VERONETWORKS.COM 781-975-0411 CONSULTANT: FULLERTON CONSULTANTS, LLC MICHELLE KAMINSKI 1100 WOODFIELD RD, SUITE 500 SCHAUMBURG, IL 60173 TEL 847-908-3400 WWW.FULLERTON-USA.COM	- VERO NETWORKS / JEFFERSON COUNTY PUBLIC SCHOOLS - INSTALLATION OF (3) 3/4" HDPE GSA CONDUITS AT INSIDE (1) 4" HDPE CASING A DEPTH OF 42" MINIMUM VIA DIRECTIONAL BORE FOR NEW FIBER OPTIC CABLE PLACEMENT.	ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. ELECTRICAL CODE: 2012 NATIONAL ELECTRIC SAFETY CODE	900' OF (3) 3/4" HDPE SDR 11 CONDUIT 400' OF 48 COUNT ARMORED SMF-28 FIBER (2) HAND HOLES 36" x 24" x 36" (2) 50' SLACK LOOPS 300' (1) 4" HDPE CASING

REV	DATE	DESCRIPTION	BY
A	11/21/25	90% REVIEW	RT
0	03/31/26	100% FINAL	INT

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.

SEGMENT NAME

CRUMS LN

TASK DESCRIPTION

UG FIBER

PROJECT AREA

LOUISVILLE, KY
JEFFERSON COUNTY

SHEET SCALE

N.T.S.

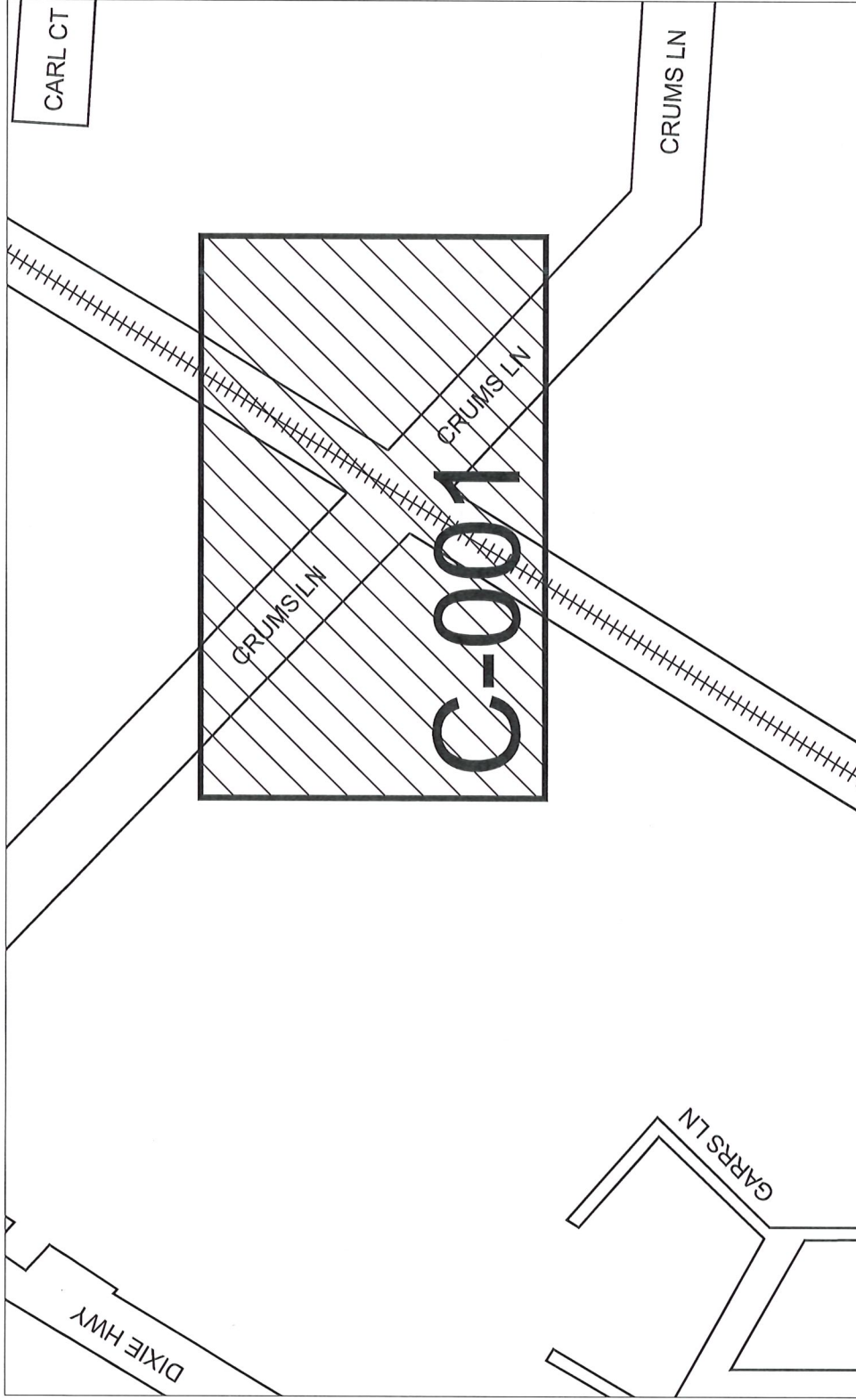
SHEET TITLE

MAP

GRID NUMBER

03 OF 15

SHEET NUMBER



PLAN SET

11'x17' SCALE: NTS
24'x36' SCALE: NTS

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ALL PROPOSED WORK UNDER THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE ENSURING NONEXCLUSIVE CONDITIONS:

1. THE ENCLOSED DESIGN MAY IMPLY EXISTING UTILITIES. THE UTILITIES HAVE NOT BEEN FIELD VERIFIED FOR LOCATION. THEREFORE, ALL UTILITIES IMPLIED WITHIN THIS DOCUMENT ARE TO BE REFERRED TO AS A "REFERENCE TOOL". IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR ITS SUBCONTRACTOR TO VERIFY THESE UTILITIES USING ANY AND ALL METHODS AND INSTRUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, EASEMENTS, LOCATIONS, ANY AND ALL DOCUMENTATION ON EXISTING UTILITIES HAS BEEN PROVIDED TO THE CONTRACTOR FOR RETRIEVAL PROCESSES FROM EACH JURISDICTION INVOLVED (STATE, COUNTY AND/OR MUNICIPALITY, TO INCLUDE OTHERS).
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE ALL CONDUITS ARE PLACED WITHIN THE GIVEN & DEDICATED SPACE LICENSED FOR THIS PARTICULAR CLIENT. FULLERTON ENGINEERING CONSULTANTS, INC. (FULLERTON) WAS NOT RETAINED FOR THE PURPOSE OF SUPPORTING A SURVEY OF THE AREA AND PROPERTY BOUNDARIES. THEREFORE FULLERTON CAN NOT AND WILL NOT SUPPORT THE ACCURACY OF ANY IMPLIED BOUNDARY (I.E. PUBLIC WAY, PRIVATE PROPERTY, EASEMENT ETC.). NOR IS IT TO BE ASSUMED THAT THE SALE OF PROPERTIES HAS NOT OCCURRED DURING & AFTER FULLERTON'S RESPONSIBILITIES FOR THIS PROJECT HAVE PAST. ALL BOUNDARIES, EASEMENTS, PROPERTY LINES, ETC. ARE TO BE USED AS A GUIDELINE OR REFERENCE AND SHOULD NOT BE TAKEN LITERALLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF ANY CHANGES TO THE DESIGN AND TO QUESTION ALL ASPECTS OF BOUNDARIES IMPLIED HEREIN. HAVE BEEN DERIVED THROUGH AVAILABLE MEANS. FULLERTON DOES NOT AGREE NOR DISAGREE WITH THE ABOVE-MENTIONED RECORDS AS THEY ARE USED JUST A REFERENCE TOOL.
3. ALL BURIED OBSTRUCTIONS KNOWN BY FULLERTON ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ANY AND ALL OTHERS ENCOUNTERED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT.
4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
5. SHORING MAY BE REQUIRED AND SHALL COMPLY TO O.S.H.A. STANDARDS.
6. ALL BURIED CONDUIT/CABLE WILL BE PLACED AT 42" MINIMUM COVER UNLESS SPECIFIED OR OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS.
7. ANY AND ALL IMPROVEMENTS, IF DAMAGED, SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. THIS INCLUDES BUT IS NOT LIMITED TO: ASPHALT, CONCRETE PAVEMENT, CURBS, GUTTERS, SIDEWALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOO, ETC..
8. ALL FIBER INSTALLATIONS SHALL OBSERVE A MINIMUM DYNAMIC BEND RADIUS OF 20X THE CABLE DIAMETER FOR ALL OSP FIBER SHEATHS AND 15X THE CABLE DIAMETER FOR ALL ISP FIBER SHEATHS. ADDITIONALLY, ALL INSTALLATIONS SHALL OBSERVE A MINIMUM DYNAMIC BEND RADIUS OF 15X THE CABLE DIAMETER FOR ALL OSP FIBER SHEATHS AND 10X THE CABLE DIAMETER FOR ALL ISP FIBER SHEATHS. IF THE MANUFACTURER'S SPECIFICATIONS FOR BEND RADIUS ARE GREATER, THEN THEY SHALL BE FOLLOWED.
9. ALL NEW METALLIC AERIAL STRAND SHALL BE BONDED/GROUNDED (PREFERABLY TO THE POWER COMPANY NEUTRAL) PER LOCAL REQUIREMENTS. AT A MINIMUM, THE BONDING/GROUNDING PATTERN SHALL BE THE FIRST AND LAST POLE OF A RUN AND EVERY TENTH POLE IN THE RUN. SHOULD ONE OF THESE DESIGNATED POLES SUPPORT A POWER TRANSFORMER, THE POLES ON EITHER SIDE OF SAID POLE SHALL BE BONDED/GROUNDED AND THE PATTERN SHOULD CONTINUE EVERY TENTH POLE FROM THAT STARTING POINT.
10. ALL AERIAL FIBER OPTIC CABLES SHALL BE SECURELY LASHED TO AERIAL STRAND BY METHOD OF MECHANICAL LASHING CARRIAGE OR APPROVED EQUAL.
11. ALL FIBER OPTIC CABLES INSTALLED BELOW GRADE SHALL BE OF AN ARMORED VARIETY WITH METALLIC INNER SHEATH, OR BE PLACED WITH A METALLIC LOCATING WIRE TO FACILITATE FUTURE LOCATING SERVICES.
12. ALL CONDUIT OR DUCT CONSTRUCTION SHALL INCLUDE THE PLACEMENT OF PULLING TAPE OF SUFFICIENT SIZE AND GRADE TO FACILITATE THE INSTALLATION OF THE SPECIFIED FIBER TYPE THROUGH CONDUIT BEING UTILIZED (JETLINE USE TO BE APPROVED BY CLIENT).
13. ALL FUSION SPLICING SHALL BE COMPLETED BY A QUALIFIED FIBER SPLICER IN A CLEAN TEMPERATURE CONTROLLED TRUCK, TRAILER, OR SHELTER SPECIFICALLY TOoled OR DESIGNED FOR THE PURPOSE OF FUSION SPLICING FIBER OPTIC CABLES IN A FIELD ENVIRONMENT.
14. ALL MECHANICAL SPLICES AND FACTORY ENDS SHALL BE KEPT CLEAN AND FREE FROM DUST, DIRT, OILS, AND SMEARS. CARE SHOULD BE TAKEN TO MATCH POLISH TYPES ON FACTORY ENDS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO WORK IDENTIFIED AS UNACCEPTABLE BY CLIENT, ENGINEER, OR INSPECTOR, DURING SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING. CONTRACTOR SHALL ALSO PROVIDE ALL AS-BUILT INFORMATION UPON COMPLETION OF INSPECTION.
16. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS. CONTRACTOR TO RETURN SITE TO PREVIOUS OR BETTER CONDITION.
17. DRAWINGS ARE INTENDED TO SHOW DESIGN INTENT. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS REQUIRED TO PRODUCE A COMPLETE AND FUNCTIONING SYSTEM WHILE MEETING ALL CODES AND SPECIFICATIONS. MODIFICATIONS TO BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED IN THE WORK. SAID DESIGN IS INTENDED TO AVOID DISRUPTION OF ANY HANDICAP RAMPS OR STRUCTURES AS DESCRIBED PER THE AMERICANS WITH DISABILITIES ACT OF 1990.

18. CONTRACTOR SHALL WORK WITH CLIENT TO IDENTIFY ALL CONTRACTOR SUPPLIED MATERIALS TO CONSTRUCT NETWORK PER SPECIFICATIONS.

19. FULLERTON HAS SUPPLIED BILL OF MATERIALS AS A GUIDELINE FOR CONSTRUCTION. CONTRACTOR SHOULD VERIFY ALL QUANTITIES, LENGTHS, AND SURPLUS PRIOR TO PURCHASING. CONTRACTOR SHOULD REPORT ANY DISCREPANCIES IN BILL OF MATERIALS TO FULLERTON. DO NOT SCALE DRAWINGS.

20. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, EQUIPMENT, LABOR, INSTALLATION, RESTORATION, UTILITY RELOCATION CHARGES, JOB SITE DELIVERY COSTS AND INCIDENTALS TO COMPLETE THE DESCRIBED OR ILLUSTRATED WORK UNDER THIS CONTRACT.

21. ANY CHANGE-ORDER REQUEST MUST BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE AND APPROVED PRIOR TO PROCEEDING WITH THE REQUESTED CHANGE.

22. THE ENGINEER WILL NOT BE RESPONSIBLE NOR ASSUME ANY LIABILITY FOR NEGLIGENT ACTS OR ERRORS OF OMISSIONS OF ANY CONTRACTOR, OR SUBCONTRACTOR, OR ANY OF THE PERSONS (EXCEPT ENGINEER'S OWN EMPLOYEES) AT THE PROJECT SITE OR OTHERWISE PERFORMING ANY OF THE WORK OF THE PROJECT. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER WILL BE RESPONSIBLE FOR HIS OWN SAFETY PROGRAM. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER SHALL RELIEVE ANY CONTRACTOR OF HIS OR HER OBLIGATIONS AND RESPONSIBILITIES AT THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONS EMPLOYED BY HIMSELF OR HIS SUBSIDIARIES, LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND HIS OR HER PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH ANY HEALTH OR SAFETY PRECAUTIONS.

23. ALL MATERIALS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL BE IN CONFORMANCE WITH STANDARD RECOMMENDATIONS OF THE NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION (NEMA) AND THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

24. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND COMPLY WITH THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION OVER THE WORK AND SHALL COORDINATE HIS WORK WITH THE WORK PERFORMED BY OTHERS FOR THE PURPOSE OF INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL WORK WITH ALL PUBLIC AND PRIVATE UTILITIES AS WELL AS CITY AND STATE AGENCIES.

25. THE CONTRACTOR SHALL NOTIFY CITY - DIVISION OF ENGINEERING AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF ANY REQUIRED SITE INSPECTION AND AT LEAST TWO (2) DAYS IN ADVANCE OF ANY ADDITIONAL INSPECTIONS THAT MAY BE REQUIRED.

26. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ELGIN - DEPARTMENT OF SEWERS AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WITH THE NAME OF THE PROJECT SUPERINTENDENT WHO CAN BE CONTACTED FOR ANY SEWER EMERGENCY.

27. CONTRACTOR SHALL RECORD THE LOCATION AND ELEVATION OF ALL UTILITIES ENCOUNTERED, AND INSTALLATION OF NEW WORK, AS THE WORK PROGRESSES AND SHALL PREPARE RECORD DRAWINGS (RED-LINES) BASED ON HIS RECORDS, AS A PART OF THE RECORD DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE HORIZONTAL AND VERTICAL CONFIGURATION OF CONDUITS WHERE MULTIPLE CONDUITS ARE INSTALLED. THESE RECORDS ARE TO BE SUPPLIED TO FULLERTON ENGINEERING AT COMPLETION OF WORK.

28. MAINTAIN MORE THAN 2'-0" VERTICAL CLEARANCE AND MORE THAN 4'-0" HORIZONTAL CLEARANCE BETWEEN EXISTING SEWER OR SEWER STRUCTURES AND UTILITY. IF CITY OF ELGIN SEWER FACILITIES ARE DAMAGED DURING CONSTRUCTION, IT MUST BE REPORTED TO THEIR ENGINEERING SECTION AND MUST BE REPAIRED BY A LICENSED DRAIN LAYER UNDER THE SUPERVISION OF THE MASON INSPECTOR

29. NO STORAGE OF EQUIPMENT OR MATERIALS IN THE ROADWAY IS PERMITTED UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE CITY, STATE, AND/OR GOVERNING BODY.

30. CONTRACTOR RESPONSIBLE FOR OBTAINING AND PROVIDING REVIEW AND DESIGN OF ANY AND ALL SHORING SYSTEMS PRIOR TO CONSTRUCTION.

31. THE ENGINEER SHALL BE NOTIFIED FOR DISPOSITION OF SITUATIONS WHERE THE CONDUIT CANNOT MAINTAIN SEPARATIONS PER PLAN.

32. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF THE AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR IS TO PAY ALL FEES AND OBTAIN ALL PERMITS FOR RESTORATION. CONTRACTOR IS TO RESTORE ALL DAMAGED STRUCTURES AND UTILITIES TO THE SATISFACTION OF THE FACILITY OWNER OR THE GOVERNING BODY, IN THE EVENT THAT DAMAGE OCCURS.

33. USE EXTREME CAUTION NEAR ALL GAS FACILITIES DURING CONSTRUCTION AND RELATED EXCAVATION ACTIVITIES. HAND EXCAVATION IS REQUIRED TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS MAINS) PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3 FEET HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS MAINS WITH DIAMETERS OF 16 INCHES OR SMALLER, AND 5 FEET EDGE TO EDGE CLEARANCE FOR GAS MAINS WITH DIAMETERS 18 INCHES AND LARGER IN DIAMETER. THE USE OF CONCRETE, FLOW FILL, OR THE LIKE IS PROHIBITED WITHIN 24 INCHES OF ALL GAS FACILITIES. NOR SHALL IT ENCASE ANY GAS FACILITY. SAND IS TO BE USED AS A BUFFER BETWEEN LOW-VOLTAGE FILL AND ALL GAS FACILITIES. ANY DAMAGE TO GAS FACILITIES SHALL BE THE RESPONSIBILITY OF THE INSTALLING UTILITY AND THEIR CONTRACTORS.



REV	DATE	DESCRIPTION	BY
2	11/21/25	90% REVIEW	RT
3	03/31/26	100% FINAL	INT

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL AND TO THE BEST OF MY KNOWLEDGE THEY COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.

SEGMENT NAME	CRUMS LN
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	N.T.S.
SHEET TITLE	GENERAL NOTES
GRID NUMBER	04 OF 15
SHEET NUMBER	GN-1

LEGEND:

PROPOSED

PROPOSED OPEN CUT TRENCH

PROPOSED DIRECTIONAL BORE

PROPOSED 4x4 MANHOLE

PROPOSED REPLACEMENT STREET LIGHT POLE



PROPOSED BORE PIT

PROPOSED 30" COMMUNICATIONS MH

PROPOSED 38X24X30 HANDHOLE

COMMUNICATIONS

EXISTING COMMUNICATIONS

EXISTING CROWN CASTLE

EXISTING COMMUNICATION MANHOLE

EXISTING CROWN CASTLE MANHOLE

EXISTING COMMUNICATION HANDHOLE

COMED

EXISTING COMED

EXISTING CTA

POTENTIAL BURIED CTA

ABANDONED TRACKS

EXISTING COMED MANHOLE

EXISTING CTA MANHOLE

EXISTING DEOELECTRIC

EXISTING STREET LIGHT CONTROL BOX

EXISTING TRAFFIC LIGHT CONTROL BOX

EXISTING STREET LIGHT HANDHOLE

EXISTING TRAFFIC LIGHT HANDHOLE

EXISTING RED LIGHT CAMERA POLE

ENWAVE/UNICOM

EXISTING ENWAVE/UNICOM

EXISTING GAS MAIN

EXISTING GAS MAIN (DEAD)

EXISTING GAS CAP

EXISTING GAS REDUCER

EXISTING ENWAVE/UNICOM MANHOLE

EXISTING GAS MANHOLE

EXISTING GAS VALVE

EXISTING GAS METER

MISCELLANEOUS

EXISTING FENCE

EXISTING CONSTRUCTION FENCE

EXISTING GUARDRAIL

EXISTING PROPERTY LINE/ R.O.W.

EXISTING MISCELLANEOUS MANHOLE

EXISTING GARBAGE CAN

EXISTING PARK DISTRICT MANHOLE

EXISTING MONITORING WELL

EXISTING BIKE RACK

EXISTING TREE

EXISTING BUSH

EXISTING STREET SIGN POST

EXISTING POST/BOLLARD

EXISTING GROUND LIGHT

EXISTING UTILITY POLE

EXISTING STANDPIPE

EXISTING ADA RAMP

EXISTING FIRE ALARM

EXISTING STREET PARKING PAY BOX

EXISTING PEDESTAL

EXISTING MAILBOX

EXISTING NEWSPAPER BOX

EXISTING PHONE

EXISTING SPRINKLER CONTROL BOX

EXISTING SPRINKLER VALVE

EXISTING SUPPORT COLUMN

SEWER

EXISTING SEWER MAIN

EXISTING SEWER MAIN (ABANDON)

EXISTING STORM SEWER MAIN

EXISTING MWWD MANHOLE

EXISTING SEWER MANHOLE

EXISTING SEWER CATCH BASIN

EXISTING SEWER INLET

WATER

EXISTING WATER MAIN

EXISTING WATER MAIN (ABANDON)

EXISTING WATER SHUT OFF

EXISTING FIRE CISTERN MANHOLE

EXISTING WATER MANHOLE

EXISTING WATER VALVE

EXISTING WATER METER

EXISTING FIRE HYDRANT

EXISTING WATER REDUCER

REV	DATE	DESCRIPTION	BY
1	11/21/25	SUB REVIEW	RT
2	03/31/26	100% FINAL	INT

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SEGMENT NAME

CRUMS LN

TASK DESCRIPTION

UG FIBER

PROJECT AREA

LOUISVILLE, KY
JEFFERSON COUNTY

SHEET SCALE

N.T.S.

SHEET TITLE

LEGEND

GRID NUMBER

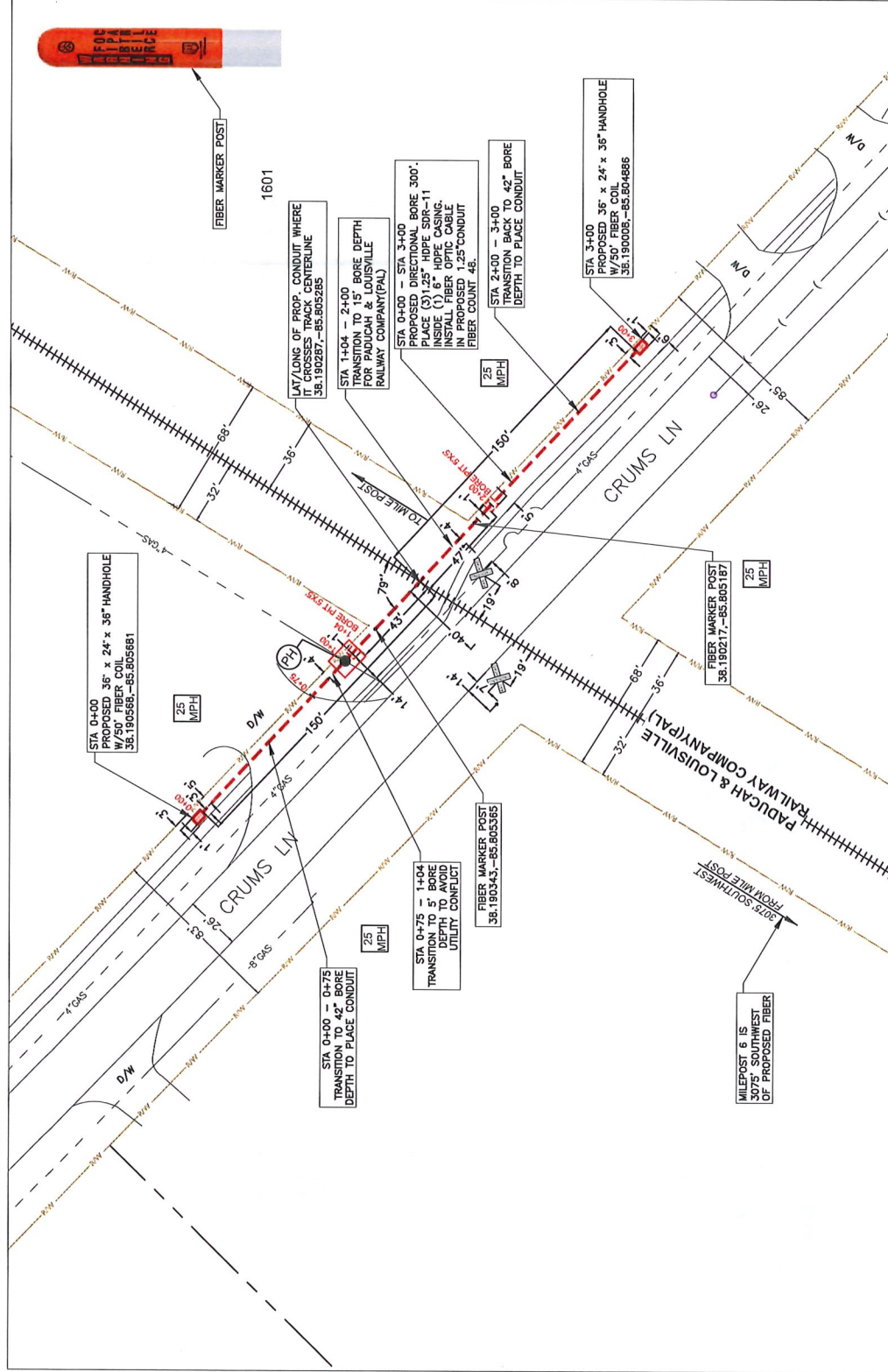
05 OF 15

SHEET NUMBER

GN-2

SEGMENT NAME	CRUMS LN
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	N.T.S.
SHEET TITLE	DETAILS
GRID NUMBER	06 OF 15
SHEET NUMBER	D-1

NOTE:
UTILITY & R.O.W. REPRESENTED ON PLANS
ARE BASED ON RECORDS; NOT ON
BOUNDARY SURVEY & FIELD EXPOSURES.



- NOTE:
- POT HOLE IS 1" DIAMETER IN SIZE
 - PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
 - MAINTAIN 3' CLEARANCE FROM EXISTING CITY UTILITY STRUCTURES
 - BURY AT 42" MIN. UNDER SOFT SURFACE-BURY AT 42" MIN. UNDER HARD SURFACE
 - MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

CAUTION
CONTRACTOR TO LOCATE AND VERIFY
R.O.W, PROPERTY LINE, AND ALL EXISTING
UTILITIES PRIOR TO CONSTRUCTION

CAUTION
CONTRACTOR TO CONTACT CITY 48
HOURS PRIOR TO CONSTRUCTION TO
LOCATE ALL EXISTING UTILITIES DUE TO
LACK OF CITY RECORDS

vero
NETWORKS

Fullerton
DESIGN DEVELOP CONSTRUCT
1100 E WOODS ROAD, SUITE 500
SCARLETT, ILLINOIS 60173
TEL: 847.988.8400
CORA 4912
www.fullerton-usa.com

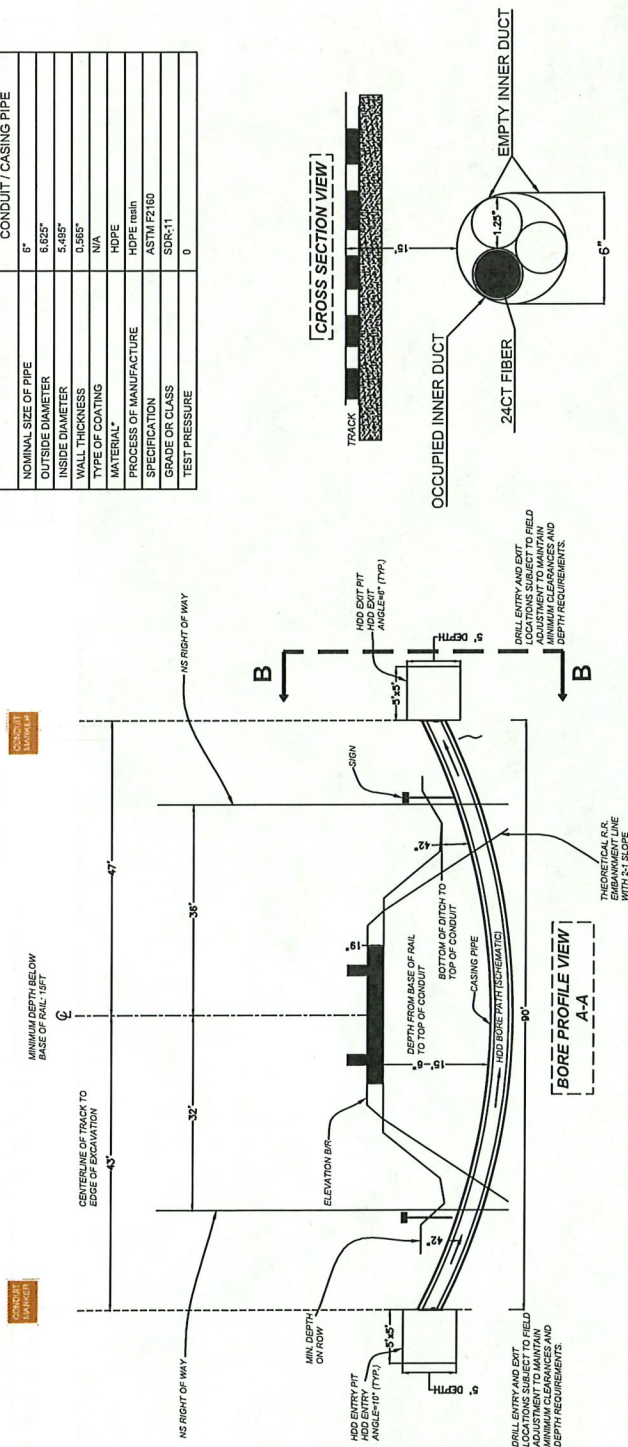
REV	DATE	DESCRIPTION	BY
0	11/21/25	SUITE REVIEW	RI
0	03/31/26	100% FINAL	INT

1. HEREBY CERTIFY THAT THESE DRAWINGS WERE
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL
ENGINEER IN THE STATE OF ILLINOIS AND THAT I AM AWARE
OF MY KNOWLEDGE AND BELIEF COMPLY WITH
THE REQUIREMENTS OF ALL APPLICABLE CODES.

SEGMENT NAME	CRUMS LN
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	1" = 50'-0"
SHEET TITLE	DESIGN LAYOUT
GRID NUMBER	07 OF 15
SHEET NUMBER	C-001



CONDUIT DATA SHEET		CONDUIT / CASING PIPE
NOMINAL SIZE OF PIPE	6"	
OUTSIDE DIAMETER	6.625"	
INSIDE DIAMETER	5.495"	
WALL THICKNESS	0.565"	
TYPE OF COATING	N/A	
MATERIAL*	HDPE	
PROCESS OF MANUFACTURE	HDPE reath	
SPECIFICATION	ASTM F2160	
GRADE OR CLASS	SDR-11	
TEST PRESSURE	0	

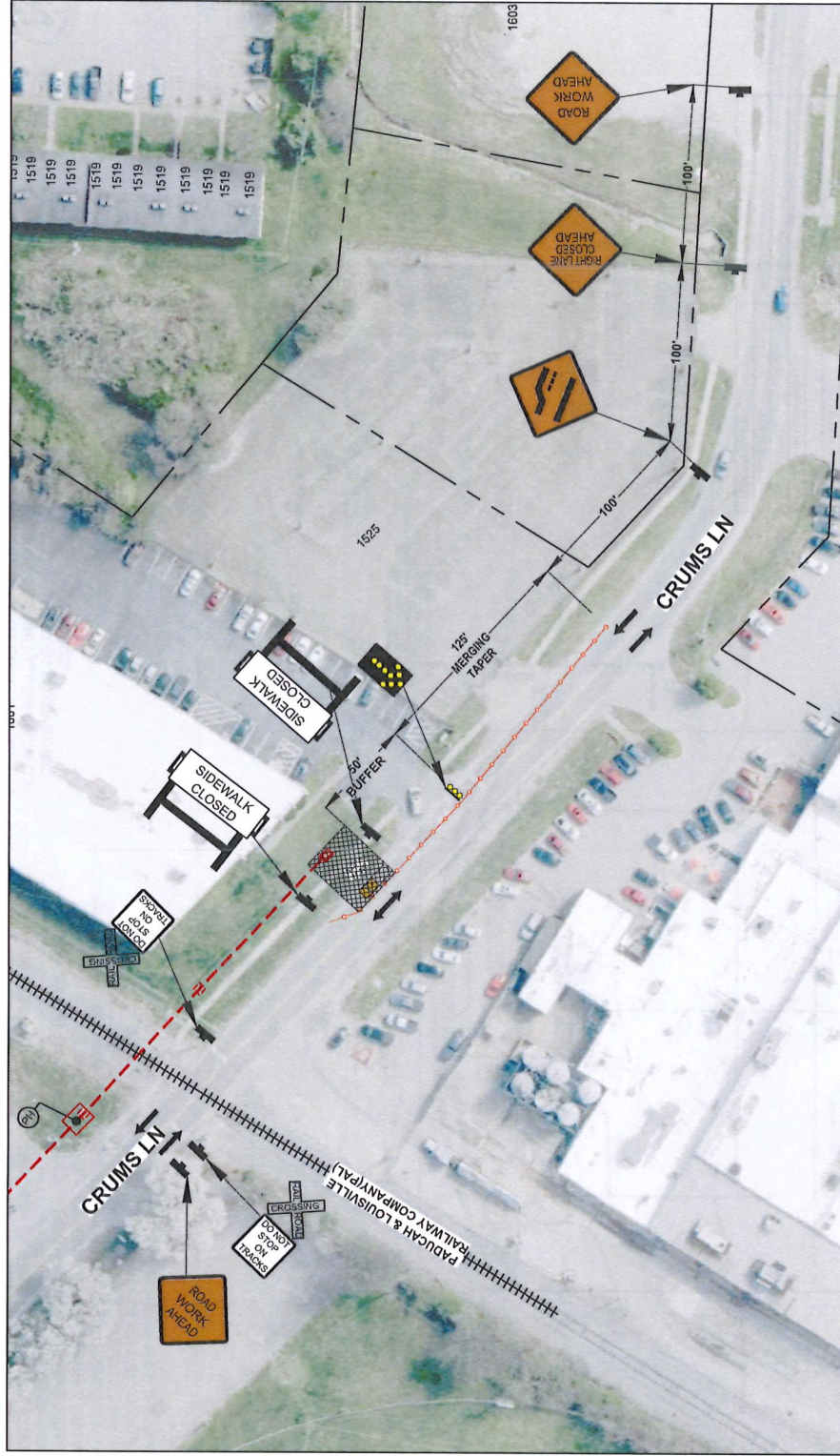


- POT HOLE IS 1' DIAMETER IN SIZE
- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
- MAINTAIN 3' CLEARANCE FROM EXISTING CITY UTILITY STRUCTURES
- BURY AT 42" MIN. UNDER SOFT SURFACE-BURY AT 42" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.
- NO STEEL CASING OR JACK-AND-BORE CASING PROPOSED. (3) 1.25" HDPE
- CONDUITS INSTALLED VIA HDD.
- INSTALLATION METHOD SHALL BE HORIZONTAL DIRECTIONAL DRILLING (HDD). NO
- JACK-AND-BORE OR AUGER BORING METHODS ARE PROPOSED WITHIN RAILROAD
- R.O.W. PROFILE IS SCHEMATIC AND SHOWN FOR CLARITY ONLY.

CAUTION CONTRACTOR TO LOCATE AND VERIFY R.O.W, PROPERTY LINE, AND ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION	*CAUTION* CONTRACTOR TO CONTACT CITY 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE ALL EXISTING UTILITIES DUE TO LACK OF CITY RECORDS
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SEGMENT NAME	CANE RUN RD
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	1" = 50'-0"
SHEET TITLE	HORIZONTAL DIRECTIONAL DRILL (HDD) BORE PROFILE
GRID NUMBER	08 OF 15
SHEET NUMBER	BP-1



CLOSURE TYPES ARE = LANE CLOSURE, SIDEWALK DETOUR.
THE LANE CLOSURE IS IMPLEMENTED TO ENHANCE WORKER
SAFETY BY PROVIDING SUFFICIENT BUFFER SPACE BETWEEN
TRAFFIC AND CONSTRUCTION ACTIVITIES.

NOTE:
POTHOLE IS 1' DIAMETER IN SIZE

LEGEND	
	CONE
	SIGN
	ARROW/BOARD
	TRUCK
	SIGNAL
	WORK AREA
	FLAGGER
	PROPOSED BORE PIT
	EXISTING BORE PIT
	ARROW
	PROPOSED HANDHOLE
	EXISTING HANDHOLE
	PROPOSED-ROUTE
	EXISTING ROUTE

MINIMUM TAPER LENGTH CHART			
SPEED (MPH)	MINIMUM TAPER LENGTH FOR WIDTH OF OFFSET 12 FT (W)		DOWN STREAM (FT)
	MERGING (FT)	SHOULDER (FT)	
20	100	50	100
25	125	63	125
30	150	75	150
35	175	88	175
40	200	100	200
45	225	113	225
50	250	125	250
55	275	138	275
60	300	150	300
65	325	163	325
70	350	175	350
75	375	188	375
80	400	200	400
85	425	213	425
90	450	225	450
95	475	238	475
100	500	250	500

* DISTANCES SHOWN IN FEET. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE FROM THE FIRST SIGN TO THE SECOND SIGN. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGN. THE D DIMENSION IS THE DISTANCE FROM THE THIRD SIGN TO THE END OF THE TAPER. THE E DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE F DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE G DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE H DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE I DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE J DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE K DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE L DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE M DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE N DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE O DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE P DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE Q DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE R DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE S DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE T DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE U DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE V DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE W DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE X DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER. THE Y DIMENSION IS THE DISTANCE FROM THE END OF THE TAPER TO THE NEXT SIGN. THE Z DIMENSION IS THE DISTANCE FROM THE NEXT SIGN TO THE END OF THE TAPER.

DESIGN DEVELOPMENT CONSTRUCTION
1100 E WOODFIELD ROAD, SUITE 500
SPRINGFIELD, MO 65812
TEL 847-498-8400
COM 491-2
www.fullerton-us.com

REV	DATE	DESCRIPTION	BY
A	11/21/23	90% REVIEW	RT
D	03/31/24	100% FINAL	INT

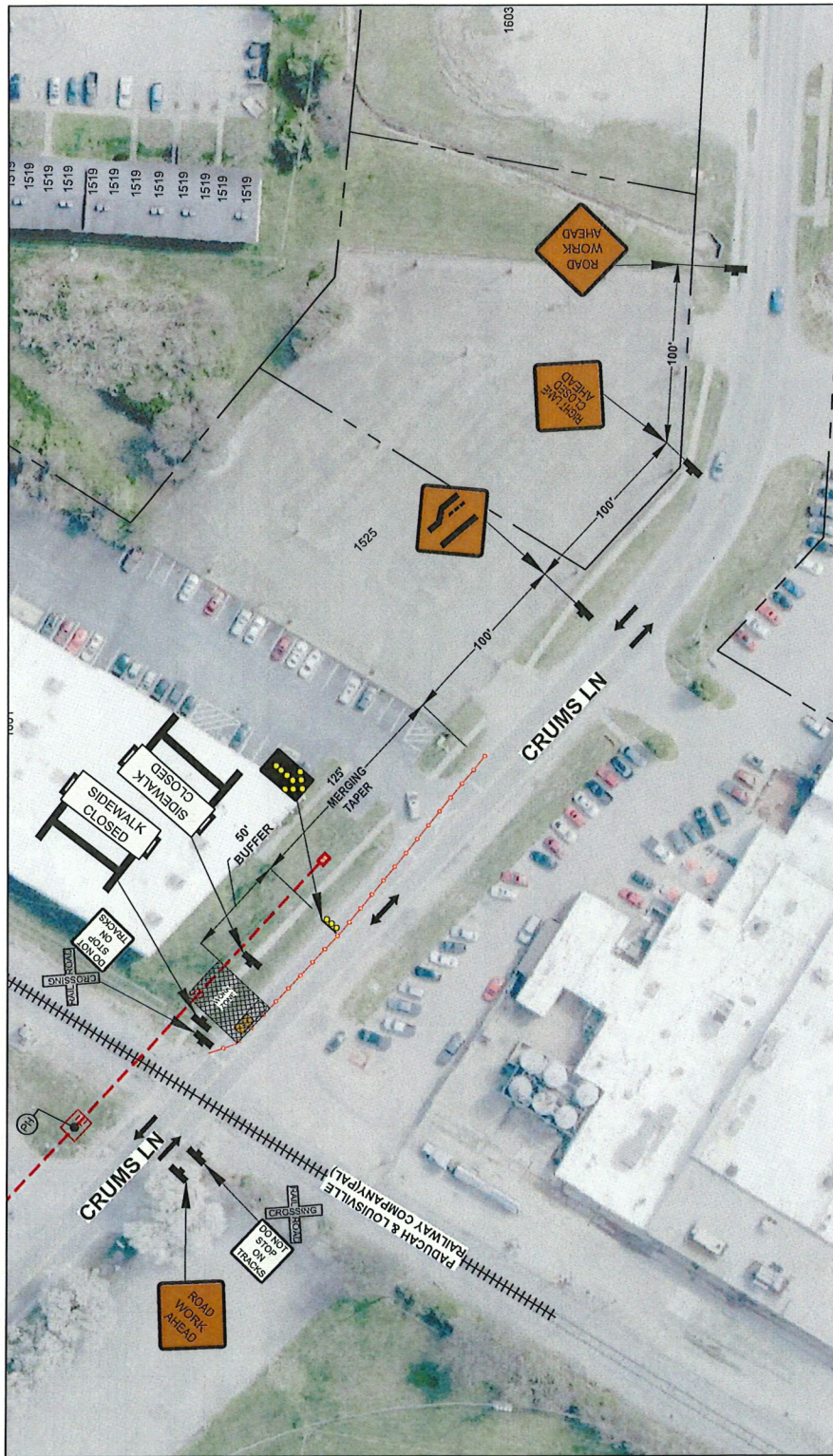
I HEREBY CERTIFY THAT THESE DRAWINGS WERE
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A LICENSED
SURVEYOR AND THAT I AM AWARE OF THE
REQUIREMENTS OF ALL APPLICABLE CODES.

SEGMENT NAME	CRUMS LN
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	1" = 50'-0"
SHEET TITLE	DESIGN LAYOUT
GRID NUMBER	09 OF 15
SHEET NUMBER	TCP-1

REV	DATE	DESCRIPTION	BY
A	11/21/25	90% REVIEW	RT
0	03/31/26	100% FINAL	INT

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SEGMENT NAME	CRUMS LN
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	1" = 50'-0"
SHEET TITLE	DESIGN LAYOUT
GRID NUMBER	10 OF 15
SHEET NUMBER	TCP-2



CLOSURE TYPES ARE = LANE CLOSURE, SIDEWALK DETOUR.

NOTE:
POTHOLE IS 1' DIAMETER IN SIZE

SPEED (MPH)	MINIMUM TAPER LENGTH FOR WIDTH OF OFFSET 12 FT (M)				DOWN STREAM SIGNAL	LEGEND
	MERGING	SHIFTING	SHOULDER	WORK AREA		
20	10	40	27	180		CONC
25	15	50	35	225		SIGN
30	20	60	43	270		ARROWBOARD
35	25	70	51	315		TRUCK
40	30	80	59	360		SIGNAL
45	35	90	67	405		WORK AREA
50	40	100	75	450		FLAGGER
55	45	110	83	495		PROPOSED BORE PIT
60	50	120	91	540		EXISTING BORE PIT
65	55	130	99	585		ARROW
70	60	140	107	630		PROPOSED HANDHOLE
75	65	150	115	675		EXISTING HANDHOLE
80	70	160	123	720		PROPOSED ROUTE
85	75	170	131	765		EXISTING ROUTE

DIMENSIONS IN FEET. THE 12' DIMENSION IS THE DISTANCE FROM THE TRANSITION TO THE FIRST SIGNAL.
 DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNALS.
 DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNALS.
 THE THIRD SIGNAL IS THE FIRST ONE IN A TRAILER SIGNAL.

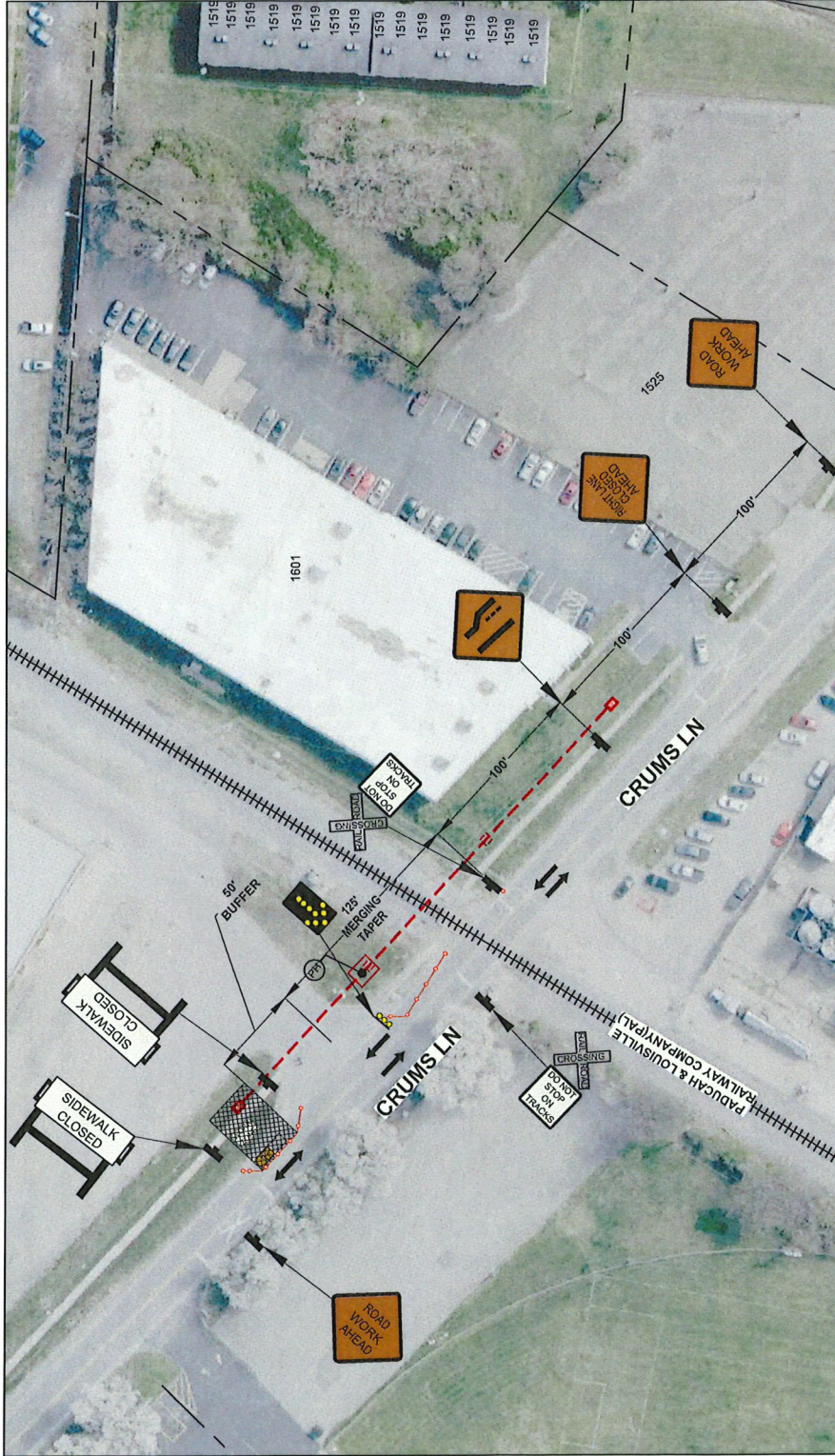


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1100 E WOODFIELD ROAD, SUITE 500
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COM 847-488-4912
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REV	DATE	DESCRIPTION	BY
A	11/21/25	S02 REVIEW	RT
0	03/31/26	100% FINAL	INT

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND CONTROL AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.

SEGMENT NAME	CRUMS LN
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	1" = 50'-0"
SHEET TITLE	DESIGN LAYOUT
GRID NUMBER	12 OF 15
SHEET NUMBER	TCP-4



CLOSURE TYPES ARE = LANE CLOSURE, SIDEWALK DETOUR.
THE LANE CLOSURE IS IMPLEMENTED TO ENHANCE WORKER SAFETY BY PROVIDING SUFFICIENT BUFFER SPACE BETWEEN TRAFFIC AND CONSTRUCTION ACTIVITIES.

NOTE:
POTHOLE IS 1' DIAMETER IN SIZE

LEGEND
CONES
SIGN
W/BOARD
TRUCK
SIGNAL
WORK AREA
FLAGGER
PROPOSED BORE PIT
EXISTING BORE PIT
ARROW
PROPOSED HANDHOLE
EXISTING HANDHOLE
PROPOSED ROUTE
EXISTING ROUTE

SPEED (MPH)	MINIMUM TAPER LENGTH FOR WIDTH OF OFFSET 12 FT (W)				DOWN STREAM (FT)
	MERCING	SHIFTING	SHOULDER	DOWN STREAM (FT)	
20	105	45	27	100	
25	135	60	36	125	
30	165	75	45	150	
35	195	90	54	175	
40	225	105	63	200	
45	255	120	72	225	
50	285	135	81	250	
55	315	150	90	275	
60	345	165	99	300	
65	375	180	108	325	
70	405	195	117	350	
75	435	210	126	375	
80	465	225	135	400	
85	495	240	144	425	
90	525	255	153	450	
95	555	270	162	475	
100	585	285	171	500	

MINIMUM TAPER LENGTH CHART

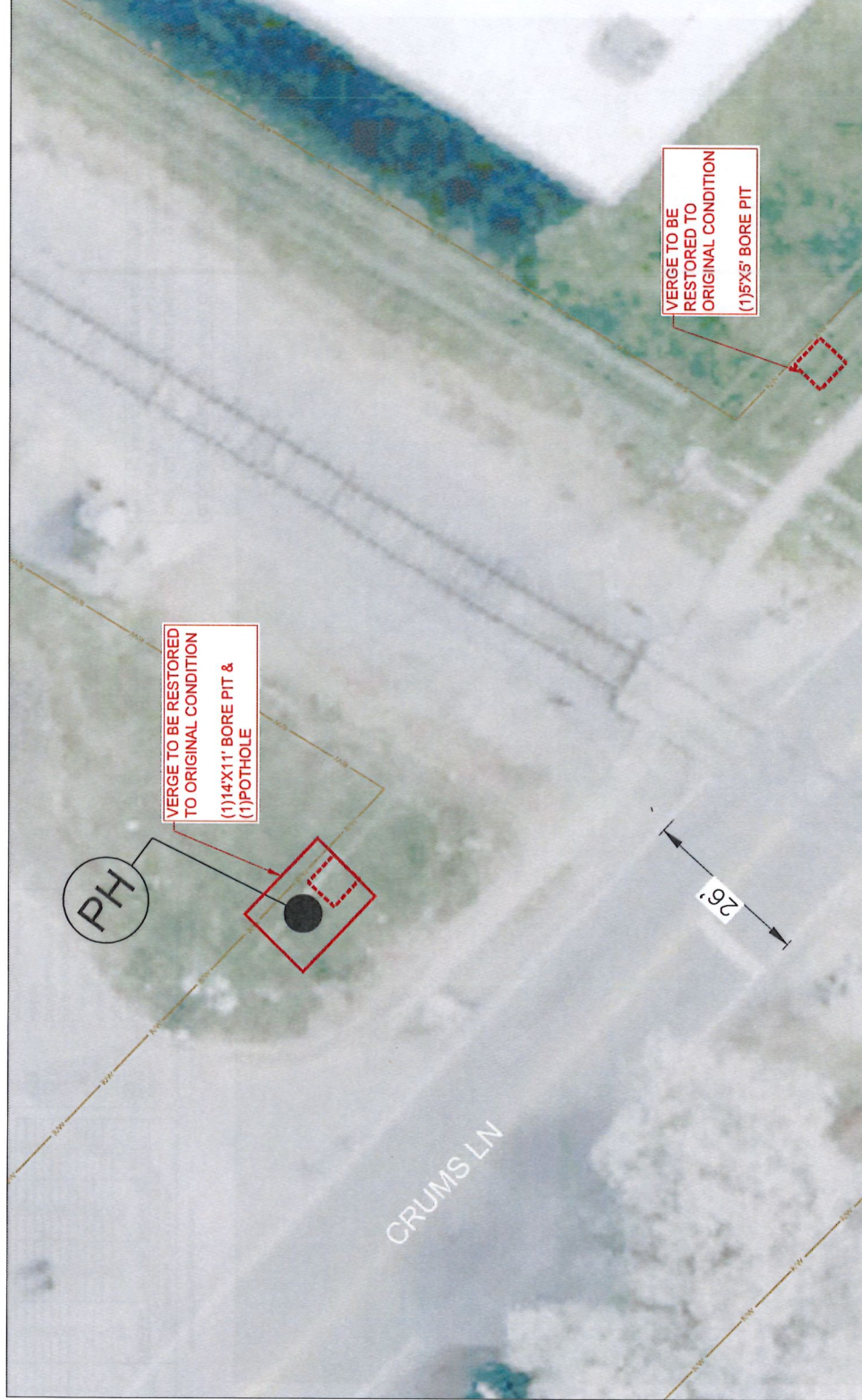
THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN, THE SECOND SIGN, THE THIRD SIGN IS THE FIRST ONE IN A THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TTC ZONE.



REV	DATE	DESCRIPTION	BY
A	08/11/25	90% REVIEW	RT
0	03/31/26	100% FINAL	INT

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SEGMENT NAME	DUMESNIL ST
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	N.T.S.
SHEET TITLE	RESTORATION PLAN
GRID NUMBER	13 OF 15
SHEET NUMBER	RES-1



RR CROSSING OF DUMESNIL ST

- All restoration work will be done in accordance with Metro Utility Policy.
- Scope of restoration work includes the following:
 - Removal of all utility markings;
 - (2) BORE PITS. Verge to be restored to original condition.
 - (1) POTHOLEs to be paved milled and sealed with 14"x11" restoration;
 - Remove debris as needed.
 - Verge will be restored to original condition with either sod, grass seed, or seed matt and back filled if needed.
- All restoration must be completed prior to permit expiration.



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1100 E WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
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FAX: 630.251.8800
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www.fullerton-usa.com

REV	DATE	DESCRIPTION	BY
A	08/11/25	90% REVIEW	RT
0	03/31/26	100% FINAL	INT

I HEREBY CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.

SEGMENT NAME	DUMESNIL ST
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	N.T.S.
SHEET TITLE	RESTORATION PLAN
GRID NUMBER	14 OF 15
SHEET NUMBER	RES-2



RR CROSSING OF DUMESNIL ST

- All restoration work will be done in accordance with Metro Utility Policy.
Scope of restoration work includes the following:
- Removal of all utility markings;
 - (1)HANDHOLES, Verges to be restored to original condition.
 - Pavement will be milled, paved, and sealed center line to curb 11'x42'.
 - Remove debris as needed.
 - Verges will be restored to original condition with either sod, grass seed, or seed matt and back filled if needed.
 - All restoration must be completed prior to permit expiration.



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REV	DATE	DESCRIPTION	BY
A	08/11/25	90% REVIEW	BT
D	03/31/26	100% FINAL	INT

I HEREBY CERTIFY THAT THESE DRAWINGS WERE
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SUPERVISION AND I AM A LICENSED PROFESSIONAL
ENGINEER IN THE STATE OF ILLINOIS AND I AM
THE REQUIREMENTS OF ALL APPLICABLE CODES.

SEGMENT NAME	DUMESNIL ST
TASK DESCRIPTION	UG FIBER
PROJECT AREA	LOUISVILLE, KY JEFFERSON COUNTY
SHEET SCALE	N.T.S.
SHEET TITLE	RESTORATION PLAN
GRID NUMBER	15 OF 15
SHEET NUMBER	RES-3



RR CROSSING OF DUMESNIL ST

- All restoration work will be done in accordance with Metro Utility Policy.
Scope of restoration work includes the following:
- Removal of all utility markings;
 - (1)HANDHOLES, Verges to be restored to original condition.
 - Pavement will be milled, paved, and sealed center line to curb 11'x42'.
 - Remove debris as needed.
 - Verges will be restored to original condition with either sod, grass seed, or seed mat and back filled if needed.
 - All restoration must be completed prior to permit expiration.

LICENSE # PL-VF-001

**PADUCAH & LOUISVILLE RAILWAY
INSURANCE REQUIREMENTS
EXHIBIT B**

A. RAILROAD PROTECTIVE INSURANCE - DURING INSTALLATION PERIOD

If the LICENSEE shall use its own forces or shall employ a contractor for the installation of the FACILITIES, then, before commencing work, the LICENSEE or LICENSEE'S CONTRACTOR, as the case may be, shall provide and maintain the following insurance, in form and amount and with the companies satisfactory to, and as approved by, the RAILROAD.

(a) Statutory Workers' Compensation and Employer's Liability insurance.

(b) An Occurrence Form Railroad Protective Policy with limits of not less than Two Million (\$2,000,000.00) Dollars per occurrence for Bodily Injury Liability, Property Damage Liability and Physical Damage to Property, with Six Million (\$6,000,000.00) Dollars aggregate for the term of the policy with respect to Bodily Injury, Liability, Property Damage Liability and Physical Damage to Property. The Policy must name

**Paducah & Louisville Railway
200 Clark Street
Paducah, Kentucky 42003**

as the Insured, and shall provide for not less than Ten (10) days' prior written notice to Railroad of cancellation of, or any material change, in the policy.

B. POST INSTALLATION

Before commencing work, and until this Agreement shall be terminated or the FACILITIES removed (whichever date is later), the LICENSEE shall provide and maintain the following insurance, in form and amount with companies satisfactory to, and as approved by, the RAILROAD:

(a) Statutory Workers' Compensation and Employer's Liability Insurance.

(b) Automobile Liability in an amount not less than One Million (\$1,000,000.00) Dollars combined single limit.

(c) Commercial General Liability in an amount not less than Two Million (\$2,000,000.00) Dollars combined single limit. In the event the policy is a Claims Made Policy, coverage shall include an aggregate of Six Million (\$6,000,000.00) Dollars.

The policy must name

**Paducah & Louisville Railway
200 Clark Street
Paducah, Kentucky 42003**

as an Additional Insured and must not contain any exclusions related to doing business on, near, or adjacent to Railroad facilities.

LICENSEE shall provide RAILROAD with a CERTIFICATE of INSURANCE, evidencing such coverage and, upon request, the LICENSEE shall deliver a certified, true and complete copy of the policy or policies. The policies shall provide for not less than Ten (10) days' prior written notice to the RAILROAD of cancellation of, or any material change in, the policies.

It is understood and agreed that the foregoing insurance coverage is not intended to, and shall not, relieve the LICENSEE from or serve to limit LICENSEE'S liability under the provisions of the License Agreement.

It is further understood and agreed that, so long as this Agreement shall remain in force and the FACILITIES shall not have been removed (whichever shall be later), the RAILROAD shall have the right, from time to time, to revise the amount or form of insurance coverages provided in this paragraph as circumstances or changing economic conditions may require. The RAILROAD shall give the LICENSEE written notice of any such requested change at least Thirty (30) days' prior to the date of expiration of the then existing policy or policies, which notice constitutes an amendment to this Agreement and shall become a part hereof; and the LICENSEE agrees to, and shall, thereupon provide the RAILROAD with such revised policy or policies therefor.

All Insurance provided must be primary and shall not be reduced or limited by any insurance procured by RAILROAD.

END OF EXHIBIT.