metronet

TASK NAME: WILC-FR03

TASK DESCRIPTION: FIBER OPTIC CONDUIT PLACEMENT

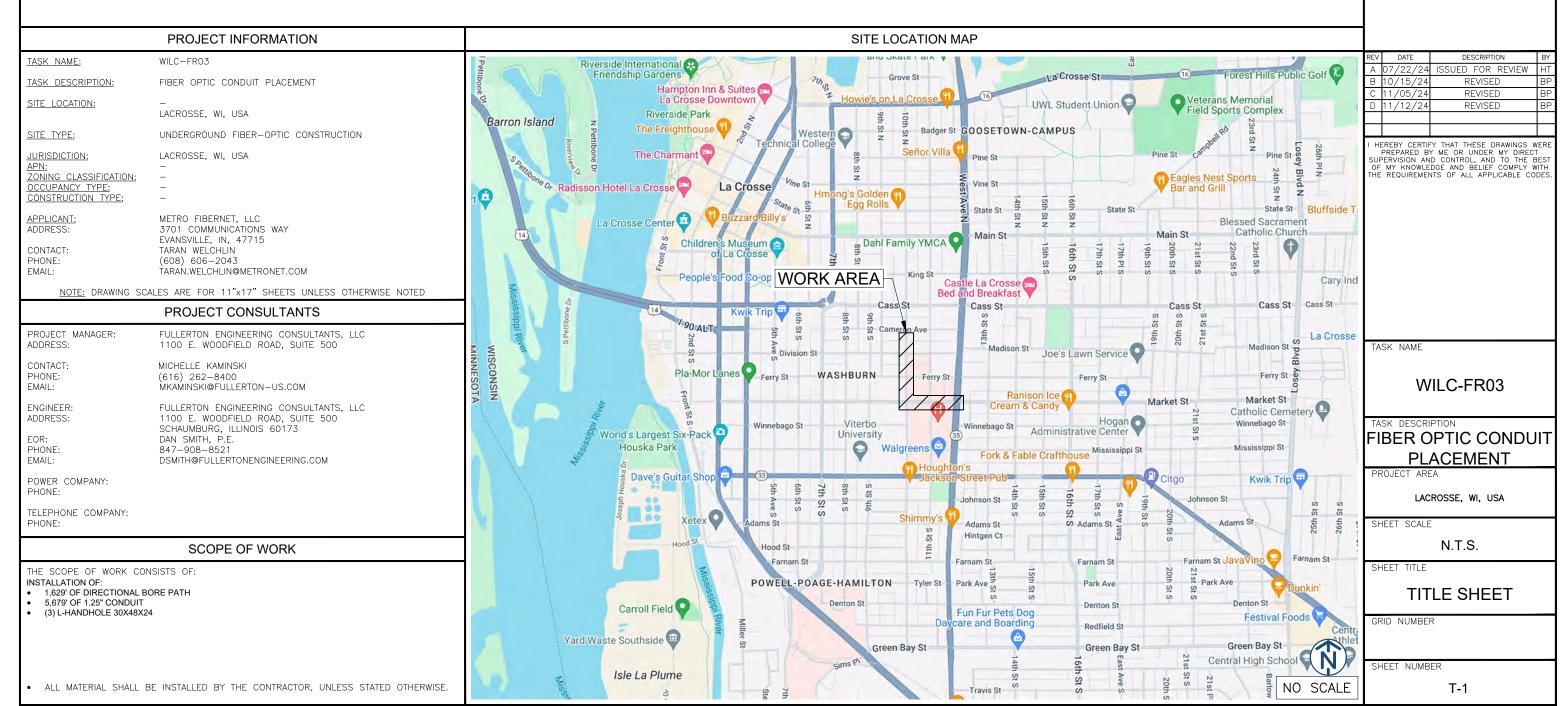
SITE LOCATION: LACROSSE, WI, USA

metronet

3701 COMMUNICATIONS WAY
EVANSVILLE IN 477.15



1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11



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SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	REV.	REVISION	DATE:	
T-1	TITLE SHEET	TOMBLIX					metronet
T-2	SHEET INDEX						3701 COMMUNICATIONS WAY
T-3	LEGEND						EVANSVILLE, IN, 47715
GN-1	GENERAL NOTES						
MAP-1	MAP						Paull and Ass
C-01	DESIGN LAYOUT						Fullerton
C-02	DESIGN LAYOUT						DESIGN DEVELOP CONSTRUCT
C-03	DESIGN LAYOUT						1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173
C-03	DESIGN LAYOUT						SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11
C-05	DESIGN LAYOUT						www.fullerton-us.com
D-1	DETAILS						
D-2	DETAILS						
D-3	DETAILS						
D-4	DETAILS						
TCP-1	TRAFFIC CONTROL STANDARD						
TCP-2	TRAFFIC CONTROL STANDARD						
TCP-3	TRAFFIC CONTROL STANDARD						REV DATE DESCRIPTION BY
TCP-4	TRAFFIC CONTROL STANDARD						A 07/22/24 ISSUED FOR REVIEW HT B 10/15/24 REVISED BP
TCP-5	TRAFFIC CONTROL STANDARD						C 11/05/24 REVISED BP
TCP-6	TRAFFIC CONTROL STANDARD						D 11/12/24 REVISED BP
TCP-7	TRAFFIC CONTROL STANDARD						
TCP-8	TRAFFIC CONTROL STANDARD						I HEREBY CERTIFY THAT THESE DRAWINGS WERE
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TCP-9	TRAFFIC CONTROL STANDARD TRAFFIC CONTROL STANDARD						THE REQUIREMENTS OF ALL APPLICABLE CODES.
TCP-10	TRAFFIC CONTROL STANDARD						
							TASK NAME
							WILC-FR03
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							TASK DESCRIPTION
							FIBER OPTIC CONDUIT
							PLACEMENT
							PROJECT AREA
							LACROSSE, WI, USA
							SHEET SCALE
							N.T.S.
							SHEET TITLE
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							GRID NUMBER
							SHEET NUMBER
							T-2
							PROJECT# 2023.0119.0000

LEGEND

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ADA

EXISTING GROUND LIGHT

EXISTING UTILITY POLE

EXISTING STANDPIPE

EXISTING ADA RAMP

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EXISTING PHONE

EXISTING SPRINKLER CONTROL BOX

EXISTING SPRINKLER VALVE

EXISTING SUPPORT COLUMN

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	I 100 E. WOO SCHAUI T	ODFIELD ROAD, SUITE 500 MBURG, ILLINOIS 60173 FEI: 847-908-8400 COA# 3620-11 ww.fullerton-us.com	
REV A (DATE 07/22/24	DESCRIPTION ISSUED FOR REVIEW	B,
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	PROPOSE	<u>ED</u>			COMMUN	ICATIONS	
	PROPOSED OPEN CUT TRENCH	В	PROPOSED B-UTILITY BOXES(17X30X18)	——————————————————————————————————————	EXISTING AT&T	A	EXISTING AT&T MANHOLE
	PROPOSED DIRECTIONAL BORE	TB	PROPOSED TERMINAL BOXES(13X24X15)		EXISTING AT&T (ABANDON)		EXISTING AT&T MANHOLE
	PROPOSED BORE PIT	DB	PROPOSED DROP BOXES(11X11X12)	coco	EXISTING COMMUNICATIONS	(CO)	EXISTING COMMUNICATIONS MANHOLE
LHH	PROPOSED L-HANDHOLE(30X48X24)			—— MCI ——— MCI ———	EXISTING MCI	MC	EXISTING MCI
HH	PROPOSED M-HANDHOLE(24X36X18)			SPSP	EXISTING SPRINT	(SP)	EXISTING SPRINT/NEXTEL MANHOLE
				SNSN	EXISTING SUNESYS	(SN)	EXISTING SUNESYS MANHOLE
	SEWER				EXISTING VERIZON	(VZ)	EXISTING VERIZON MANHOLE
	EXISTING SEWER MAIN	S	EXISTING SEWER MANHOLE	_ UF — UF —	EXISTING CITY FIBER		
	EXISTING SEWER MAIN (ABANDON)	(II)	EXISTING SEWER CATCH BASIN				
>> >	EXISTING STORM SEWER MAIN		EXISTING SEWER INLET		MIOOFIL	ANEOLIO	
S	EXISTING STORM MANHOLE				MISCELL	ANEOUS	
				xxx	EXISTING FENCE	?	EXISTING MISCELLANEOUS MANHOLE
	WATER			0	EXISTING CONSTRUCTION FENCE	G	EXISTING GARBAGE CAN
w	EXISTING WATER MAIN		EXISTING WATER MANHOLE		EXISTING GUARDRAIL		EXISTING PARK DISTRICT MANHOLE
	EXISTING WATER MAIN (ABANDON)	8	EXISTING WATER VALVE	20V	EXISTING PROPERTY LINE/ R.O.W.	\bigcirc	EXISTING MONITORING WELL
* So	EXISTING WATER SHUT OFF	•	EXISTING WATER METER	0 0	EXISTING BIKE RACK	F	EXISTING FIRE ALARM
F	EXISTING FIRE CISTERN MANHOLE	.	EXISTING FIRE HYDRANT		EXISTING TREE	P	EXISTING STREET PARKING PAY BOX
Е	EXISTING WATER CAP		EXISTING WATER REDUCER		EXISTING BUSH		EXISTING PEDESTAL
				- 0	EXISTING STREET SIGN POST	M	EXISTING MAILBOX
	GAS			®	EXISTING POST/BOLLARD	N	EXISTING NEWSPAPER BOX

EXISTING GAS MANHOLE

EXISTING GAS VALVE

EXISTING GAS METER

EXISTING STREET LIGHT POLE

EXISTING TRAFFIC LIGHT POLE

EXISTING ELECTRIC MANHOLE

EXISTING ELECTRIC HANDHOLE

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EXISTING GAS MAIN

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EXISTING GAS MAIN (DEAD)

EXISTING GAS REDUCER

EXISTING DEO/ELECTRIC

EXISTING STREET LIGHT CONTROL BOX

EXISTING TRAFFIC LIGHT CONTROL BOX

EXISTING STREET LIGHT HANDHOLE

EXISTING TRAFFIC LIGHT HANDHOLE

EXISTING RED LIGHT CAMERA POLE

	wv	COA# 3620-11 vw.fullerton-us.com	
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SUF OF THE	EREBY CERTIF PREPARED B' PERVISION AN MY KNOWLE REQUIREMEN	TY THAT THESE DRAWINGS WY ME OR UNDER MY DIRECT D CONTROL, AND TO THE B DGE AND BELIEF COMPLY W NTS OF ALL APPLICABLE COI	EST ITH DES.
TA	SK NAME	ILC-FR03	
FI	PL	PTIC CONDU ACEMENT	ΙΤ
PF	ROJECT ARE	-A ROSSE, WI, USA	
	HEET SCALE	N.T.S.	
SH	HEET TITLE	LEGEND	
GF	RID NUMBE	R	

- 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 IT'S SUBCONTRACTOR TO VERIFY THESE UTILITIES USING ANY AND ALL METHODS AND INSTRUMENTS AVAILABLE IF/WHEN NECESSARY. FULLERTON CANNOT IN GOOD FAITH GUARANTEE UTILITY LOCATIONS. ANY AND ALL DOCUMENTATION ON EXISTING UTILITIES HAS BEEN IMPLIED UTILIZING INFORMATION 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 HAVE ASSOCIATED BOUNDARIES SURVEY STAKED IF SO QUESTIONED. ALL ASPECTS OF BOUNDARIES IMPLIED HEREIN, HAVE BEEN DERIVED THROUGH AVAILABLE MEDIA SUCH AS BUT NOT LIMITED TO (SIDWELL, GOOGLE EARTH PRO. MUNICIPAL, STATE, COUNTY, GIS, AND OTHER RECORD TYPES). 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 30-48" 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 SOD, 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 STATIC 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 MAY 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. 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.
- 20. ANY CHANGE-ORDER REQUEST MUST BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE AND APPROVED PRIOR TO PROCEEDING WITH THE REQUESTED CHANGE.
- 21. THE ENGINEER WILL NOT BE RESPONSIBLE NOR ASSUME ANY LIABILITY FOR NEGLIGENT ACTS OR ERRORS OF OMISSIONS OF ANY CONTRACTOR, ANY 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. ANY CONTRACTOR OR SUBCONTRACTOR, AS WELL AS THE ENGINEER, WILL BE RESPONSIBLE FOR HIS OWN SAFETY PROGRAM. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR HIS OR HER EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE ANY CONTRACTOR OF HIS OR HER OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT 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.
- 22. 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).
- 23. 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.
- 24. 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.
- 25. MAINTAIN MORE THAN 2'-0" VERTICAL CLEARANCE AND MORE THAN 4'-0" HORIZONTAL CLEARANCE BETWEEN EXISTING SEWER OR SEWER STRUCTURES AND UTILITY. IF CITY SEWER FACILITIES ARE DAMAGED DURING CONSTRUCTION, IT MUST BE REPORTED TO CITY ENGINEERING SECTION AND MUST BE REPAIRED BY A LICENSED DRAIN LAYER UNDER THE SUPERVISION OF THE MASON INSPECTOR.
- 26. 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.
- 27. CONTRACTOR RESPONSIBLE FOR OBTAINING AND PROVIDING REVIEW AND DESIGN OF ANY AND ALL SHORING SYSTEMS PRIOR TO CONSTRUCTION.
- 28. THE ENGINEER SHALL BE NOTIFIED FOR DISPOSITION OF SITUATIONS WHERE THE CONDUIT CANNOT MAINTAIN SEPARATIONS PER PLAN
- 29. 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
- 30. 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 MAIN(S) 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 FLOWABLE FILL AND ALL GAS FACILITIES, ANY DAMAGE TO GAS FACILITIES SHALL BE THE RESPONSIBILITY OF THE INSTALLING UTILITY AND THEIR CONTRACTORS.

metronet

3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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

TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI, USA

SHEET SCALE

N.T.S.

SHEET TITLE

GENERAL NOTES

GRID NUMBER

SHEET NUMBER

GN-





3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11 www.fullerton-us.com

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TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AREA

LACROSSE, WI, USA

SHEET SCALE

N.T.S.

SHEET TITLE

MAP

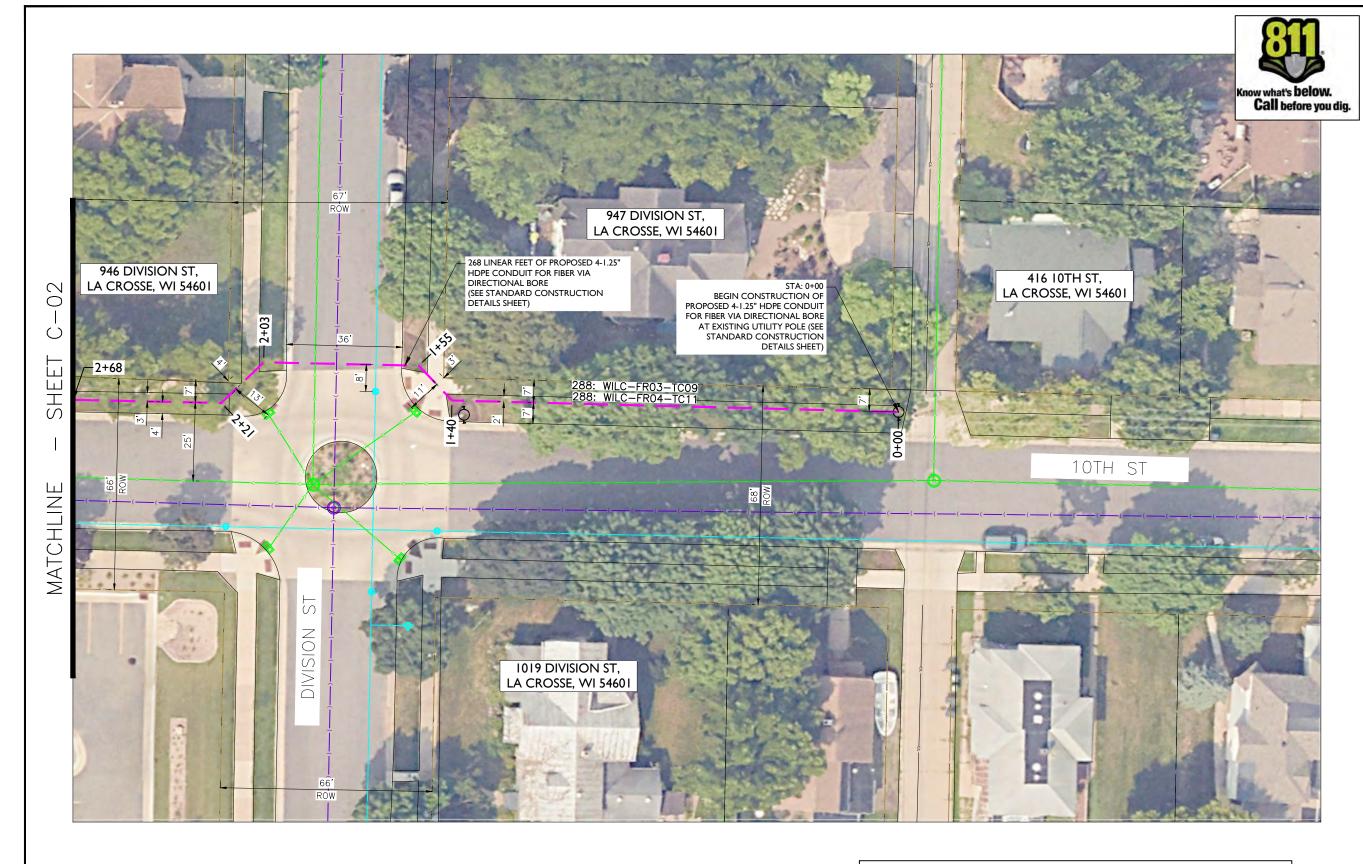
GRID NUMBER

SHEET NUMBER

MAP-1

PLANSET

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



NOTE:

- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
- BURY AT 24" MIN. UNDER SOFT SURFACE
- BURY AT 36" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

NOTE:

PRIOR TO CONSTRUCTION ALL STREET LIGHT WIRING MUST BE PROPERLY LOCATED.

NOTE:

RIGHT-OF-WAY LINE SHOWN PER INFORMATION PROVIDED IN GISFILE OBTAINED FROM LA CROSSE CITY

NOTE:

METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORM AND SANITARY INLETS, MANHOLES AND CATCH BASINS.



metronet

3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715

Fullerten DESIGN DEVELOP CONSTRUCT

1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

1" = 30'-0"

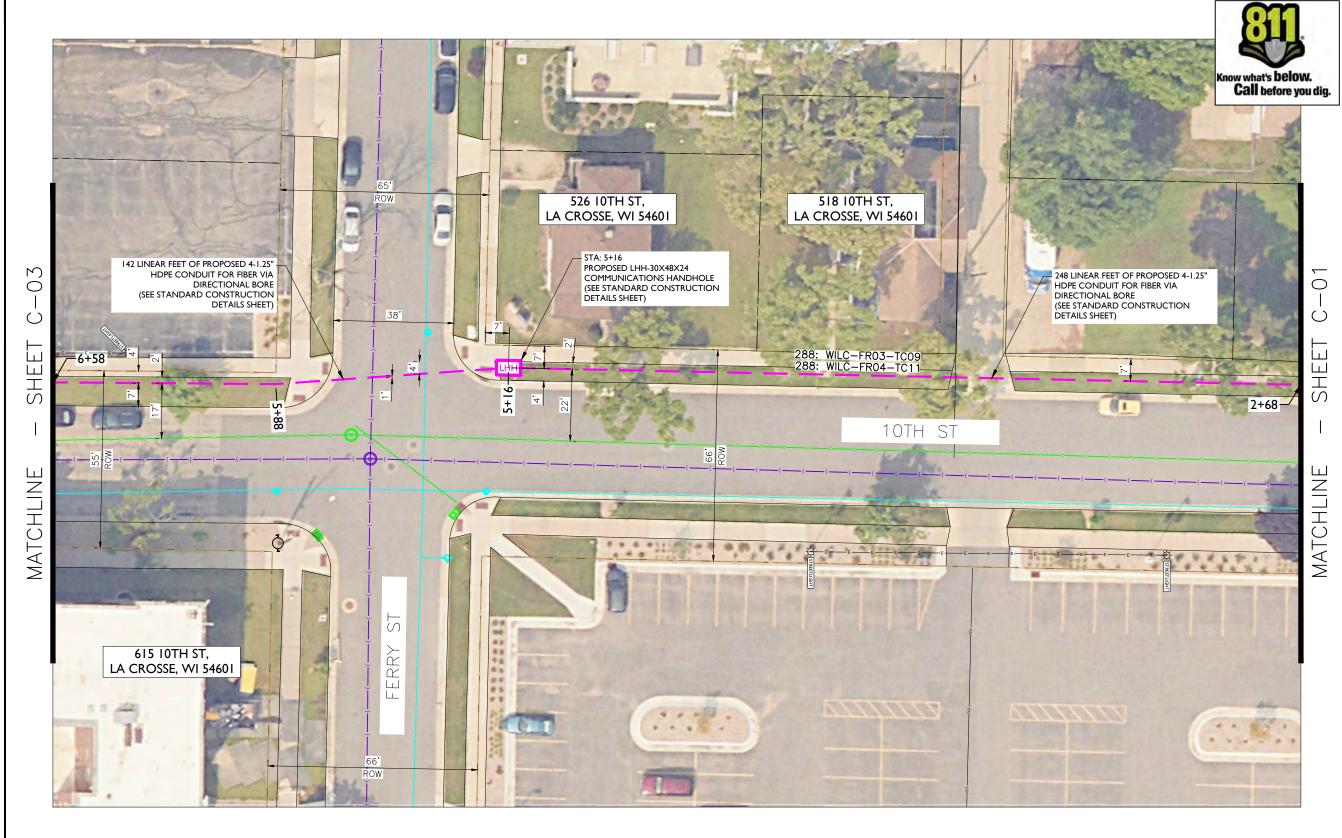
SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-01



NOTE:

- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
- BURY AT 24" MIN. UNDER SOFT SURFACE
- BURY AT 36" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

LOCATED.

NOTE:
PRIOR TO CONSTRUCTION ALL STREET
LIGHT WIRING MUST BE PROPERLY

NO
ME
MA

NOTE:

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metronet

3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715

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PROJECT ARE

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SHEET SCALE

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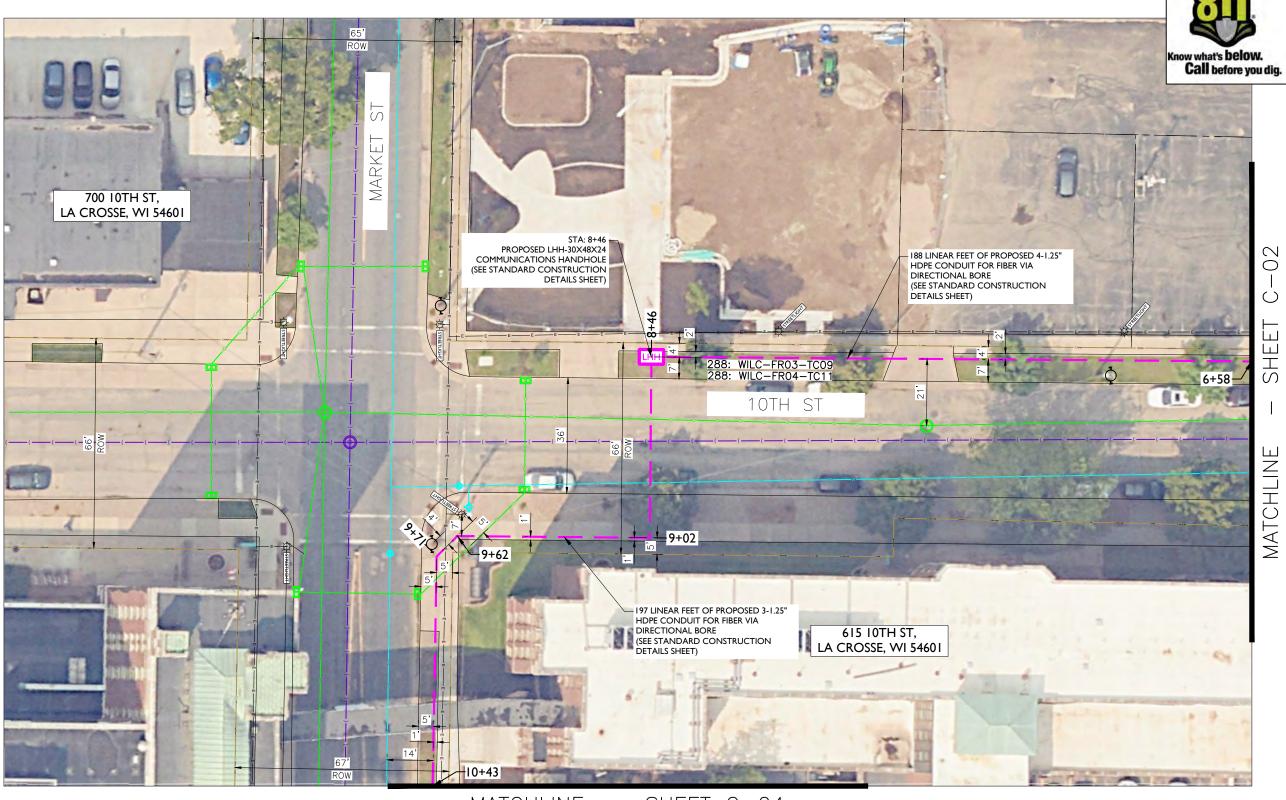
SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-02



MATCHLINE - SHEET C-04

PRIOR TO CONSTRUCTION ALL STREET

LIGHT WIRING MUST BE PROPERLY

NOTE:

LOCATED.

NOTE:

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- BURY AT 24" MIN. UNDER SOFT SURFACE
- BURY AT 36" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

NOTE:

RIGHT-OF-WAY LINE SHOWN PER INFORMATION PROVIDED IN GIS FILE OBTAINED FROM LA CROSSE CITY

NOTE:

METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORM AND SANITARY INLETS, MANHOLES AND CATCH BASINS.



metronet

3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715

I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

REV	DATE	DESCRIPTION	BY
Α	07/22/24	ISSUED FOR REVIEW	ΗТ
В	10/15/24	REVISED	ВP
O	11/05/24	REVISED	ВP
D	11/12/24	REVISED	ВP
		·	

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

LACROSSE, WI, USA

SHEET SCALE

1" = 30'-0"

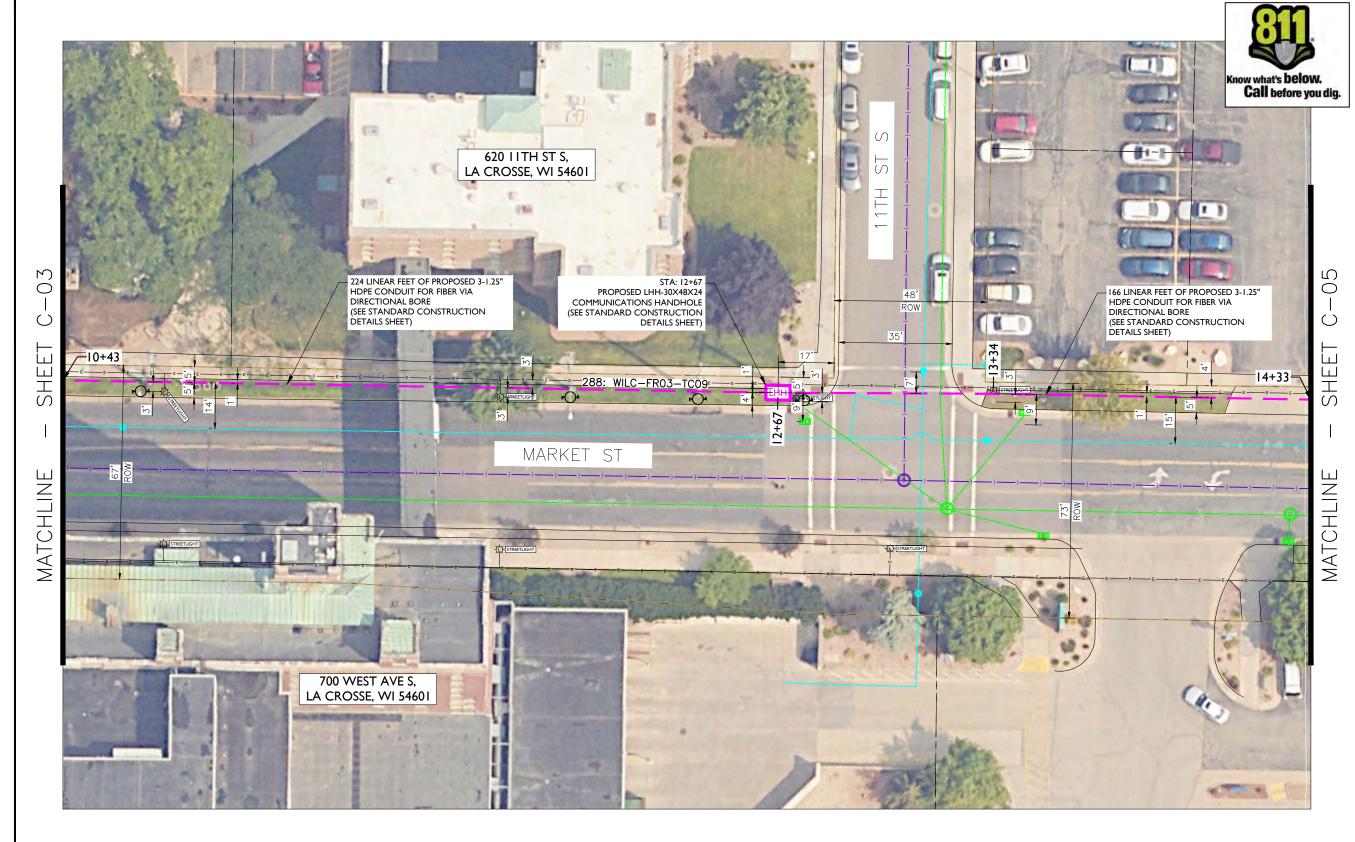
SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-03



NOTE:

- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
- BURY AT 24" MIN. UNDER SOFT SURFACE
- BURY AT 36" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

NOTE:

PRIOR TO CONSTRUCTION ALL STREET LIGHT WIRING MUST BE PROPERLY LOCATED.

NOTE:

RIGHT-OF-WAY LINE SHOWN PER INFORMATION PROVIDED IN GISFILE OBTAINED FROM LA CROSSE CITY

NOTE:

METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORM AND SANITARY INLETS, MANHOLES AND CATCH BASINS.



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3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715

Fullerten DESIGN DEVELOP CONSTRUCT

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D	11/12/24	REVISED	ВP
		·	

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

1" = 30'-0"

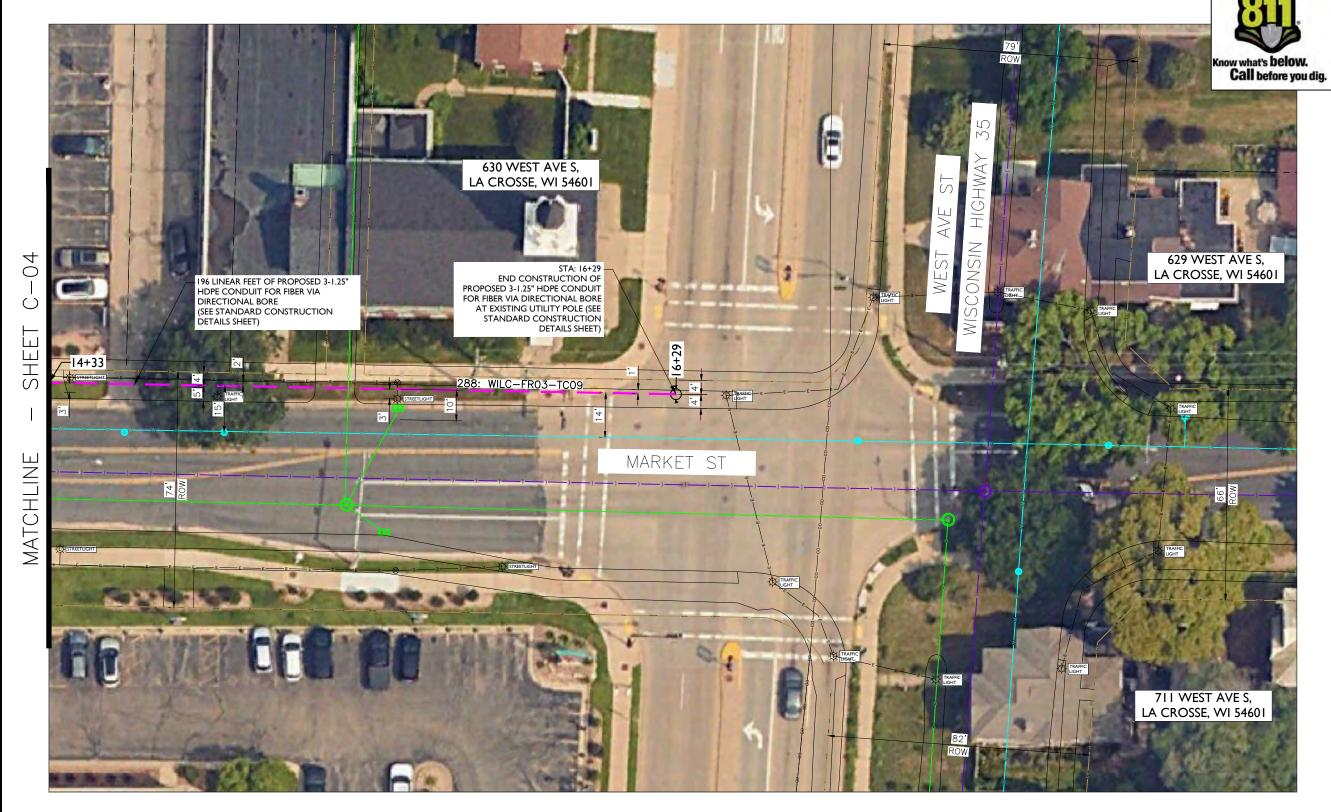
SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-04



NOTE:

- PROPOSED CONDUIT SHALL AVOID EXISTING SEEPAGE BEDS
- BURY AT 24" MIN. UNDER SOFT SURFACE
- BURY AT 36" MIN. UNDER HARD SURFACE
- MAINTAIN 1' FROM BACK OF SIDEWALK, WHEN APPLICABLE.

NOTE:

PRIOR TO CONSTRUCTION ALL STREET LIGHT WIRING MUST BE PROPERLY LOCATED.

VOTE:

PRIOR TO CONSTRUCTION ALL TRAFFIC SIGNAL WIRING AT THE INTERSECTION MUST BE PROPERLY LOCATED.

NOTE:

RIGHT-OF-WAY LINE SHOWN PER INFORMATION PROVIDED IN GISFILE OBTAINED FROM LA CROSSE CITY

NOTE:

METRONET WILL MAINTAIN 5' CLEARANCE FROM EXISTING MANHOLES, VALVES, AND FIRE HYDRANTS & 7.5' CLEARANCE FROM STORM AND SANITARY INLETS, MANHOLES AND CATCH BASINS.



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3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT AF

LACROSSE, WI, USA

SHEET SCALE

1" = 30'-0"

SHEET TITLE

DESIGN LAYOUT

GRID NUMBER

SHEET NUMBER

C-05

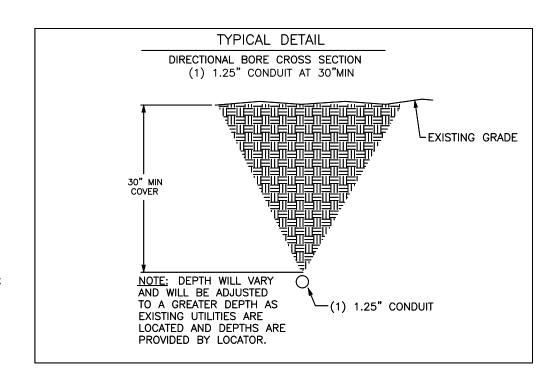
ADDITIONAL NOTES:

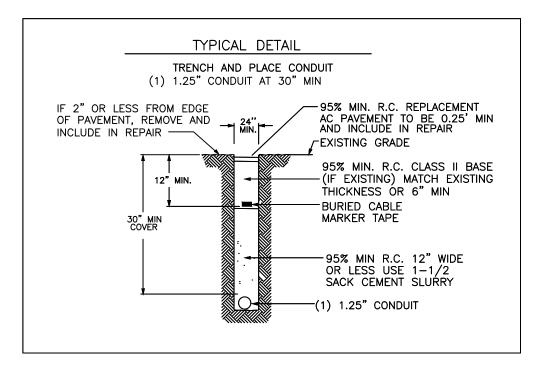
- EXCEPT AS OTHERWISE NOTED, CONTRACTOR SHALL MAINTAIN A MINIMUM OF 24 INCHES OF SEPARATION FROM EXISTING UTILITIES.
- 2. CONTRACTOR SHALL POTHOLE EACH UTILITY TO DETERMINE SIZE, LOCATION, AND DEPTH PRIOR TO CROSSING.
- 3. CONTRACTOR IS CAUTIONED TO PROTECT SEWER MANHOLES, CATCH BASINS, LATERALS AND INLETS.
- 4. CONTRACTOR WILL PROVIDE BARRICADING TO INSURE CORRECT TRAFFIC CONTROL WHILE MAINTAINING VEHICULAR TRAFFIC AT ALL TIMES.
- 5. RESTORATION TO BE IN COMPLIANCE WITH APPLICABLE PERMITING AGENCIES
- 6. BONDING AND GROUNDING PER NESC.

PUBLIC UTILITY NOTE:

CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, SEWER, WATER, ETC) PRIOR TO COMMENCING ANY CONSTRUCTION.

THESE COMPANIES WILL LOCATE, ON THE GROUND, THE LOCATION OF ALL CONDUITS, DUCTS, UNDERGROUND PIPING, ETC., ADJOINING & CROSSING PROPOSED CONSTRUCTION.







3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

N.T.S.

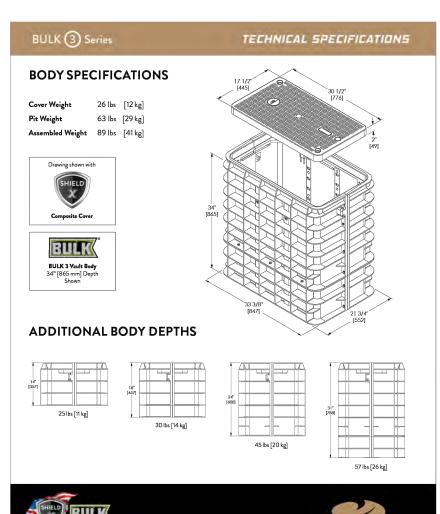
SHEET TITLE

DETAILS

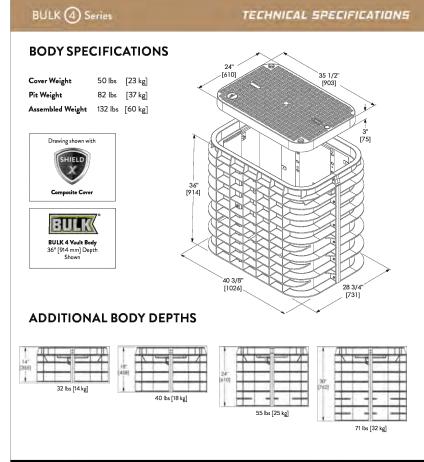
GRID NUMBER

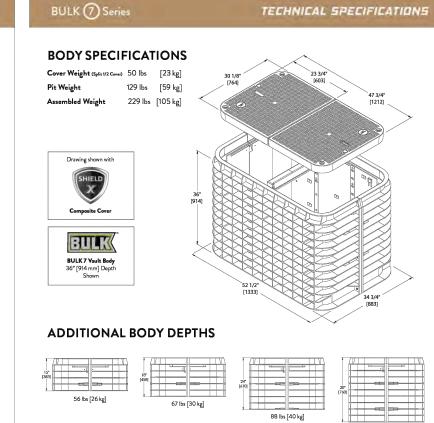
SHEET NUMBER

D.



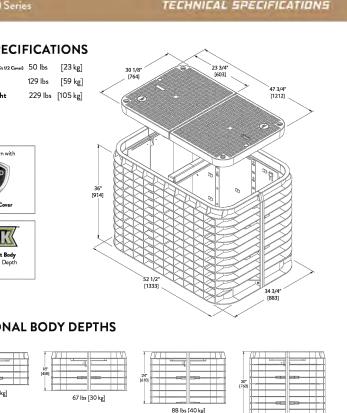
CHANNELL





MADE IN USA

CHANNELL







1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

REV	DATE	DESCRIPTION	BY
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TASK NAME

CHANNELL

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

LACROSSE, WI, USA

SHEET SCALE

N.T.S.

DETAILS

SHEET TITLE

GRID NUMBER

SHEET NUMBER

D-2



DATA SHEET

SGLB-0 NEW SIGNATURE SERIES GRADE LEVEL BOX WITH **SELFLOCK** PROTECTION





SELF_LOCK

The New Signature Series SGLB High Density Polyethylene (HDPE) grade level box line come standard with Logo Disk and the Patented SELFLOCK automatic locking mechanism.

FEATURES

- 13" (330mm) Depth
- No bolts to be lost, misplaced, or not installed back into the unit
- Captive bolt device, that opens with a ¼ turn
- Press/Push lid closed, and it will automatically lock in place (with an audible "click")
- Protects your investment, and ensures the needed protection for your network
- Eliminates the risk of lids floating off, being throw be lawnmowers (i.e. reduces potentially liability)

DATA SHEET

SGLB-2 SIGNATURE SERIES GRADE LEVEL BOX



SELF_LOCK**

The Signature Series SGLB-2 High Density Polyethylene (HDPE) grade level box line comes standard with Customizable Logo Disk and the Patented SELFLOCK automatic locking mechanism.

FEATURES

- Designed for Greenbelt/Pedestrian
- Captive bolt device, that opens with
- No bolts to be lost, misplaced, or not installed back into the unit
- Press/Push lid closed, and it will automatically lock in place (with an audible "click")
- Secondary lock option
- Temporary drop port
- Protects your investment, and ensures the needed protection for your network
- Eliminates the risk of lids floating off, being thrown by lawnmowers (i.e. reduce potential liability)

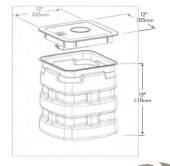
SIMPLE AND WORRY FREE PROTECTION

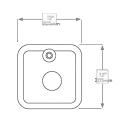






DIMENSIONS







WORLDWIDE HEADQUARTERS: Channell Commercial Corporation, Rockwall, TX, United States • Tel 800.423.1863 • Fax 951.296.2322

CANADA: Channell Canada, Inc., Mississauga, ON, Canada • Tel 905.5661.700 • Fax 905.566.8282

EUROPE, MIDDLE EAST, RRIFIC Channell LId., Dartford, United Kingdom • Tel 44.1322.312590 • Fax 44.1322.508490

AUSTRALIA, ASIA, PADIFIC RIN: Channell PyL. Ltd., Seven Hills, NSW, Justralia • Tel 61.2.8884.4111 • Fax 61.2.8814.8841

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SIMPLE AND WORRY FREE PROTECTION





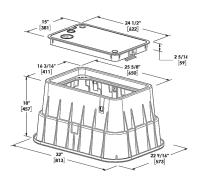




DIMENSIONS









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3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



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D	11/12/24	REVISED	BP

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

LACROSSE, WI, USA

DETAILS

SHEET SCALE

N.T.S.

SHEET TITLE

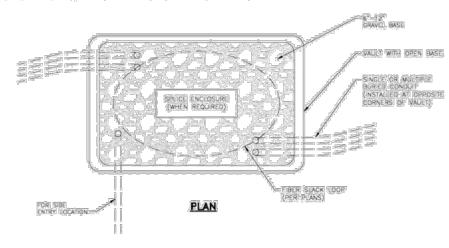
GRID NUMBER

SHEET NUMBER

D-3

NOTES:

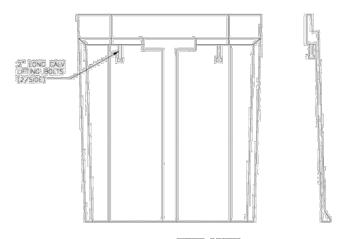
- 1. CALL FOR LOCATES AT LEAST 72 HOURS IN ADVANCE OF ANY CONSTRUCTION FOR MARKINGS.
- 2 FOR LABEL AND TAG INFORMATION SEE DRAWING OSP 16.
- THE VAULT W/ BOTTOM ENTRY ELEVATION NEW SHOWN BELOW IDITY INDICATES THE BACK FILL REQUIREMENTS NECESSARY FOR VAULTS IFLACED IN SIDEWALKS; ETC. (WHERE THEY NEED TO COMPLY WITH ADA REQUIREMENTS). TO ENSURE COMPLIANCE WITH CURRENT ADA REQUIREMENTS. THE HEIGHT OF THE BACK FILL IS SHOWN HELD DOWN TO ALLOW CONCRETE TO FILM DOWN AND REQUIREMENTS. WHICH WILL SERVE AS DOWELS INTO THE PINISHED CONCRETE SLAB.



6° MINIMUM EXCAVATION

VAULT COVERT FRUSH WITH SIDEWALK (SEE-ADA-REQUIREMENTS)

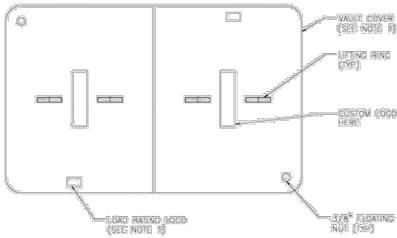
VAULT



SIDE VIEW

NOTE:

Lo ENCLOSURES, BOXES AND COVERS ARE REQUIRED TO MEET OR EXCEED ALL TESTS PROVISIONS OF THE MOST CURRENT ANS SETE 77=2007 "SPECIFICATIONS FOR UNDERGROUND INTEGRITY" FOR THER 15 OR BETTER



VAULT LID

ADA REQUIREMENTS:

SURFACE LEVEL CRITERIA. NO HEIGHT DIFFERENTIALS WITH A UP GREATER THAN IX IN HEIGHT, EXCEPTIONS, A HEIGHT DIFFERENTIAL BETWEEN IX AND IX IS ACCEPTABLE IF IT IS BEVELED AT A Z. SLOPE, OR A HEIGHT DIFFERENTIAL GREATER THAN IX IS ACCEPTABLE IF IT IS RAWPED WITH A SLOPE OF 8.33% (IV:12F) OR JESS.

UTILITY COVERS SHALL HAVE A SUP RESISTANT TOP, AS MUCH AS POSSIBLE; AND WELL CHARGES IN LEVEL CRITERIA AS STATED ABOVE.

HET HOLES FOR UTILITY COVERS ISHALL NOT HAVE AN OPENING GREATER THAN %.
PLUGGING OF HOLES GREATER THAN % WITH A MATERIAL APPROVED BY THE ENGINEER IS ACCEPTABLE AS LONG AS IT IS TRUSH WITH THE COVER SURFACE.

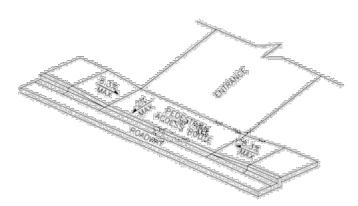
- A LEVEL GEDESTRIAN ACCESS ROUTE (PAR) OR WALKWAY SHALL BE PROVIDED ACROSS COMMERCIAL AND RESIDENTIAL ENTRANCES, MEETING THE BODGOWING CRITERIAL THE WALKWAY IS AT MINIMUM 3 WIDE.

 ICROSS SLOPE OF WALKWAY IS 272 OR DESS.

 WALKWAY IS AT THE ISAME CRADE AS THE ADJACENT PROVIDES A STRAIGHT LINE BETWEEN THE FADJONING SIDEWALKS OR RAMPS.

 THE WALKWAY DOES NOT HAVE TO BE MARKED, BUT PROVIDES A STRAIGHT LINE BETWEEN THE FADJONING SIDEWALKS OR RAMPS.

 THERE IS NOT AN ABRUPT TRANSITION FROM THE DRIVEWAY TO THE ROADWAY FOR VEHICLES, LET VEHICLES WILL NOT BOTTOM OUT WHEN DRIVINGSIOVER THE TRANSITION.



PEDESTRIAN_ACCESS_ROUTE

metronet

3701 COMMUNICATIONS WAY FVANSVILLE IN 47715



1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11 www.fullerton-us.com

REV	DATE	DESCRIPTION	BY
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В	10/15/24	REVISED	ВP
С	11/05/24	REVISED	ВP
D	11/12/24	REVISED	ВP

HEREBY CERTIFY THAT THESE DRAWINGS WERE THEREBY CERTIFY THAT THESE DRAWINGS WETE 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.

TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

PROJECT AREA

LACROSSE, WI, USA

SHEET SCALE

N.T.S.

SHEET TITLE

DETAILS

GRID NUMBER

SHEET NUMBER

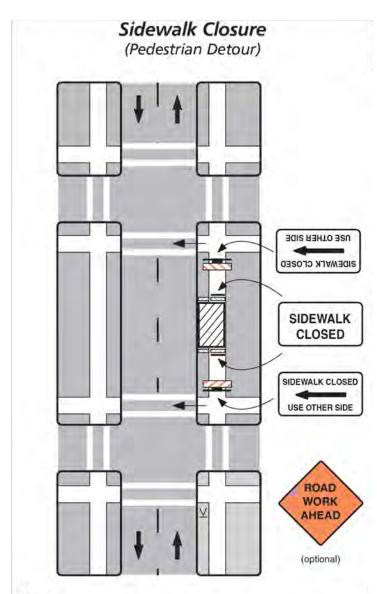
VAULT W/ BOTTOM ENTRY

67 WIN.

TRACER WIRE

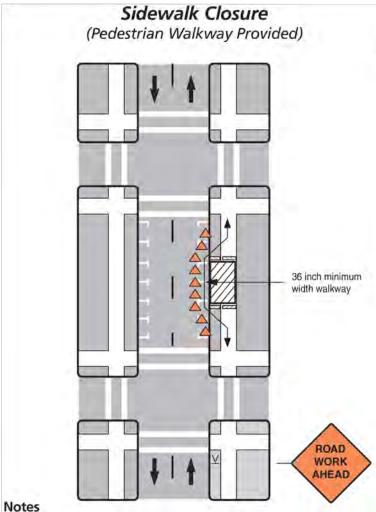
FIBER OPTIC

CUSTOM ITOGO: HERE 3/8" FLOATING



Notes

- 1. Additional advance warning may be necessary.
- 2. Only the traffic control devices related to pedestrians are shown. Other devices may be needed to control traffic on the streets such as lane closure signs, ROAD NARROWS or LANE NARROWS signs.
- 3. For nighttime closures, Type A flashing warning lights may be used on barricades supporting signs and closing walkways.
- 4. Audible devices should be considered to alert pedestrians with visual disabilities of closings and crosswalk changes.



- 1. Additional advance warning may be necessary.
- 2. Only the traffic control devices related to pedestrians are shown. Other devices such as lane closure signs, ROAD NARROWS or LANE NARROWS signs may be needed to control traffic on the streets.
- 3. For nighttime closures, Type A flashing warning lights may be used on barricades supporting signs and closing walkways. Type C or Type D steady-burn lights may be used on channelizing devices separating the temporary walkway from vehicular traffic.
- 4. Where high speeds are likely, a barrier should separate the temporary walkway from vehicular traffic. Refer to Section 6D.01of Part 6 of the MUTCD for information on barriers.
- 5. Signs may be placed along a temporary walkway to guide pedestrians; for example, Keep Right or Keep Left signs.
- 6. Pedestrian walkways should be ADA accessible (i.e., ramps, surfaces).



EVANSVILLE, IN. 47715



1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

LACROSSE, WI, USA

SHEET SCALE

N.T.S.

SHEET TITLE

TRAFFIC CONTROL STANDARD DETAILS

GRID NUMBER

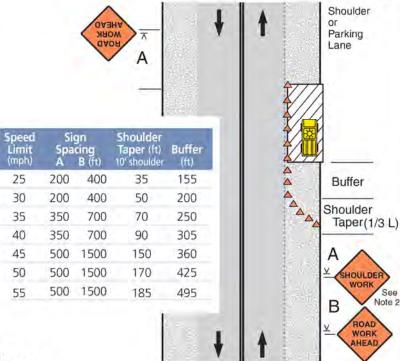
SHEET NUMBER

Speed Limit Spacing (mph) A (ft) 25-30 200 35-40 350 45-55 500 Expressway/Freeway 1000 Less than 15' or more See Note 1 shoulder

Notes

- The warning sign may be omitted where the work area is behind a guard rail, more than 2' behind a curb, 30' or more from the edge of a freeway/expressway, or 15' or more from the edge of any other roadway.
- For short-term, short-duration, or mobile operations, the warning sign may be omitted if a vehicle with activated high intensity light is used. On State Roads, the warning sign can be omitted if the duration of work is less than 60 minutes and activated high intensity lights are used.
- The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as SHOULDER WORK, UTILITY WORK AHEAD, SURVEY CREW, MOWING AHEAD OF WORKERS.

Work on Shoulder or Parking Lane on Two-Lane Two-Way Road



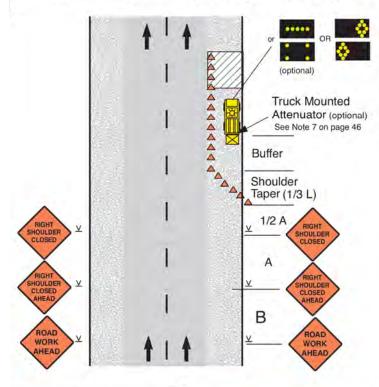
Notes

- 1. Encroachment into the traffic lane is allowable, but a 10-foot minimum travel lane width should be maintained. A lane closure should be considered if there is encroachment on roads with speeds greater than 35 mph, or for other conditions where workers, equipment, or the work activity would benefit from the lateral buffer (see pages 22 and 23).
- 2. If there is encroachment into the traffic lane, a ROAD NARROWS sign may be used instead of SHOULDER WORK. For roads with low volume, the SHOULDER WORK or ROAD NARROWS sign can be omitted.
- For short duration work, the channelizing devices may be omitted if a vehicle with activated high intensity lights is used.
 For short duration work with no lane encroachment, the signs may also be omitted.



- WORKERS, UTILITY WORK AHEAD, SHOULDER WORK AHEAD, or SURVEY CREW signs may be used instead of SHOULDER WORK or ROAD WORK AHEAD.
- When work area is at least 2' from traffic lane on roads with low volume and speeds of 35 mph or less, the sign on opposite side can be omitted.

Shoulder or Parking Lane Closed on Divided or One-Way Roadway



350

350

45

50

65

1000 1000

1000 1000

1000 1000

1000 1500

1000 1500

350

350

70

90

150

170

185

200

220

Notes

- SHOULDER CLOSED signs should be used on limitedaccess highways where there is no opportunity for disabled vehicles to pull off the traveled way.
- For short-term stationary work, one SHOULDER CLOSED warning sign can be omitted.
- 3. For short duration work, the channelizing devices can be omitted if a vehicle with activated high intensity lights is used. For short duration work with no lane encroachment, the signs can also be omitted.
- UTILITY WORK AHEAD, SURVEY CREW or WORKERS signs can be used instead of the ROAD WORK AHEAD signs shown.
- If the parking lane is used as a traffic lane follow the lane closure layout. See page 32.

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3701 COMMUNICATIONS WAY EVANSVILLE, IN. 47715



I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK NAME

250

305

360

425

495

570

645

730

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

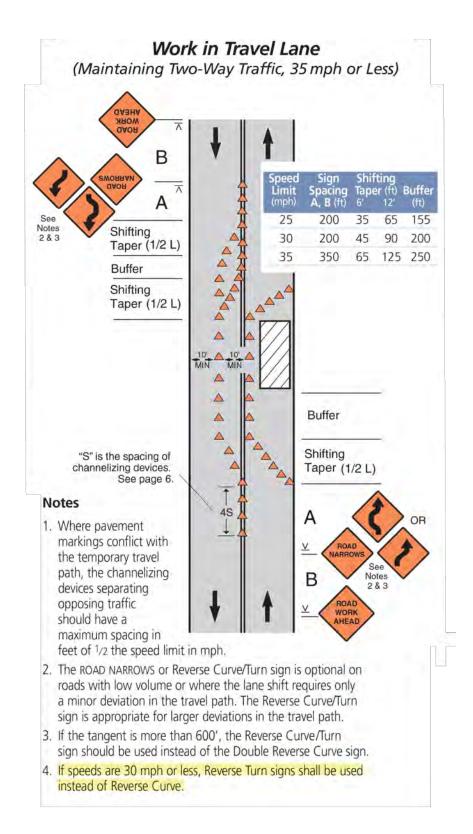
N.T.S.

SHEET TITLE

TRAFFIC CONTROL STANDARD DETAILS

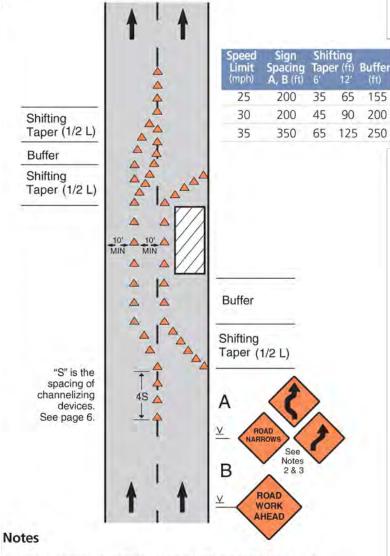
GRID NUMBER

SHEET NUMBER



Work in Travel Lane on Divided or One-Way Roadway

(35 mph or Less)



- 1. Where pavement markings conflict with the temporary travel path, the channelizing devices separating opposing traffic should have a maximum spacing in feet of 1/2 the speed limit in mph.
- 2. If the tangent is more than 600 feet, the Reverse Curve/Turn sign should be used instead of the Double Reverse Curve sign.
- If speeds are 30 mph or less, Reverse Turn signs shall be used instead of Reverse Curve.



EVANSVILLE, IN, 47715



I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

N.T.S.

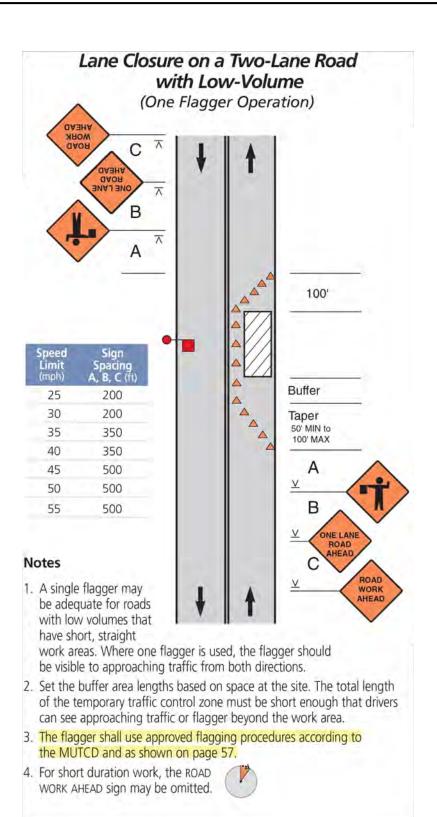
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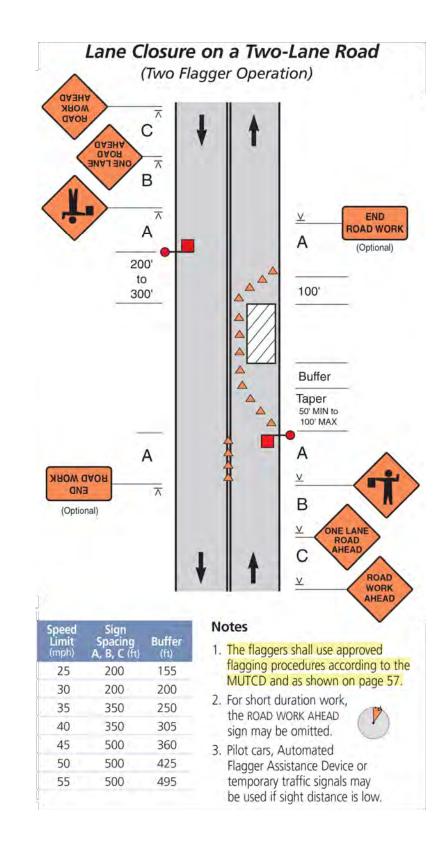
TRAFFIC CONTROL STANDARD DETAILS

GRID NUMBER

SHEET NUMBER

TCP-3





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3701 COMMUNICATIONS WAY EVANSVILLE, IN. 47715



I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

REV	DATE	DESCRIPTION	BY
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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

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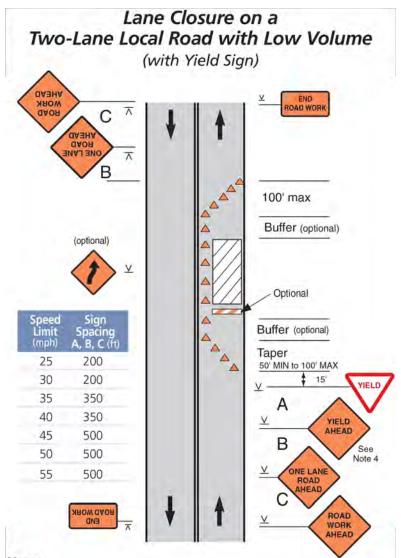
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GRID NUMBER

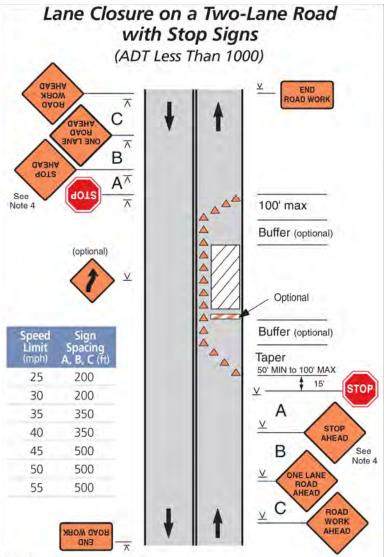
SHEET NUMBER

TCP-4



Notes

- 1. This layout may be used when volume is low, work area short, sight distance good, and traffic can see beyond the work area.
- 2. This layout shall not be used on a state highway, connecting highway or any other roadway officially designated as a "through" highway.
- 3. The YIELD sign shall only be used with permission from the authority having jurisdiction over the roadway.
- 4. Set the buffer area lengths based on space at the site. The total length of the temporary traffic control zone must be short enough that drivers can see approaching traffic beyond the work area.
- 5. YIELD AHEAD symbol sign may be used.



Notes

- 1. Consider using this layout when ADT is less than 1000, work area is short, sight distance good, and traffic can see beyond the work area. It could be appropriate for ADT above 1000 if limited to off-peak hours.
- 2. STOP signs shall only be used with permission from the authority having jurisdiction over the roadway.
- 3. Determine buffer area length based on space at the site. Total length of the temporary traffic control zone must be short enough that drivers from both directions can see approaching traffic beyond the work area.
- 4. Stop Ahead symbol sign may be used.
- On State Roads use the appropriate WisDOT Standard design detail or consult with a WisDOT Regional Work Zone engineer.

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PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

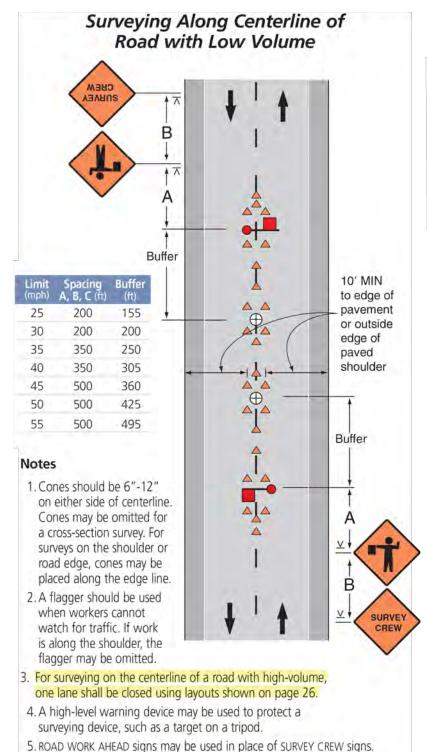
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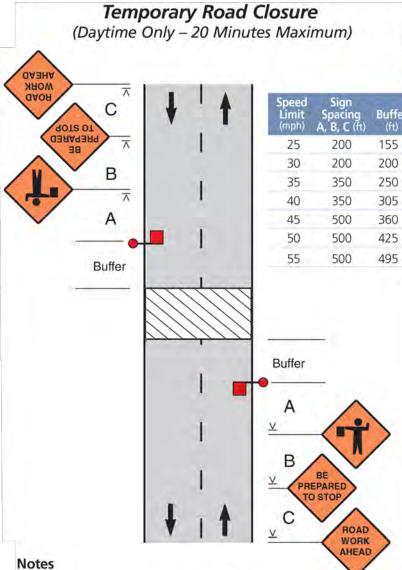
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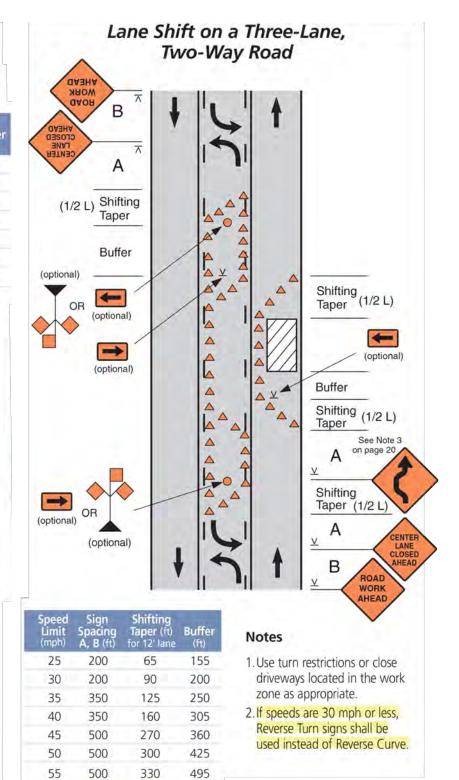
GRID NUMBER

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- Conditions represented are for work which requires closings during daytime hours only.
- 2. This application is intended for a planned temporary closing not to exceed 20 minutes.
- 3. Flaggers or uniformed officers shall be used for this application.
- 4. The flagger should stop the first vehicle from the shoulder as shown. After stopping the first vehicle if the view of the flagger is obstructed, then he/she should move toward the centerline to stop additional traffic.
- Flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 57.



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3701 COMMUNICATIONS WAY



I 100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK NAME

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PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

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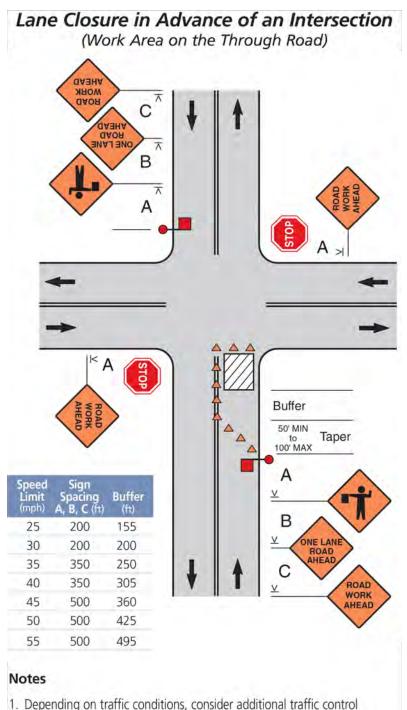
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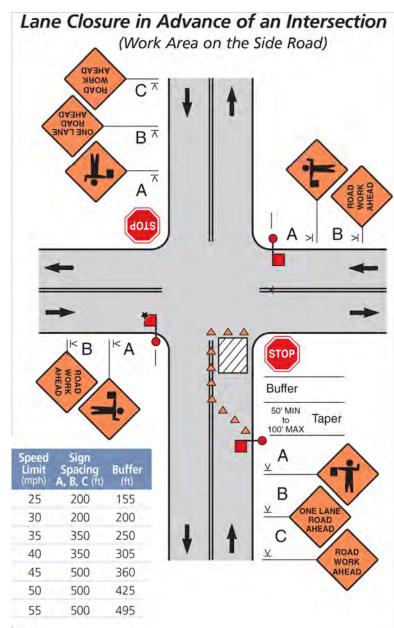
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TCP-6



- Depending on traffic conditions, consider additional traffic control on the side road approaches, such as flaggers and appropriate signs.
- 2. The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 57.



Notes

- 1. Depending on traffic conditions, consider additional traffic control, such as flaggers and appropriate signs.
- 2. The middle flagger has the best view of traffic from all directions and would normally be *lead flagger* and coordinate the other flaggers.
- 3. The flaggers shall use approved flagging procedures according to the MUTCD and as shown on page 57.
- 4. A temporary STOP sign on the main street can also be used.

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PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

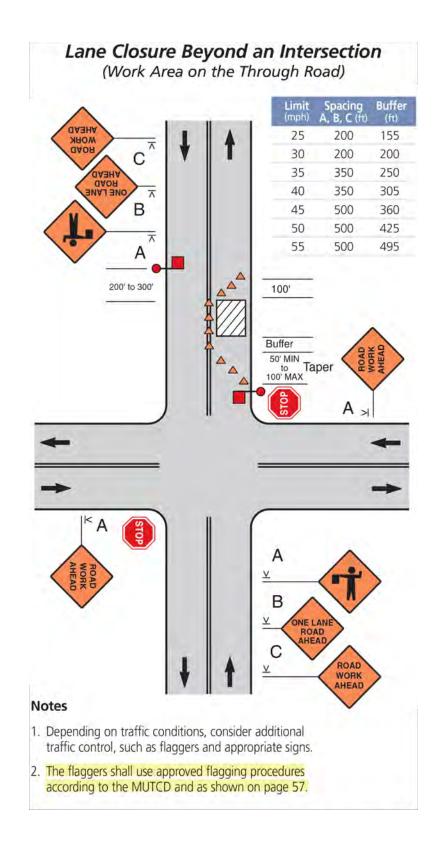
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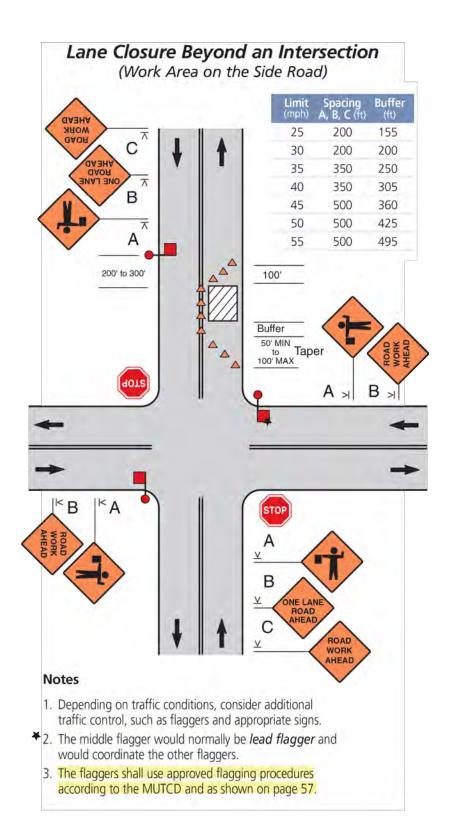
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3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



1100 E. WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 TEL: 847-908-8400 COA# 3620-11

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TASK NAME

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LACROSSE, WI, USA

SHEET SCALE

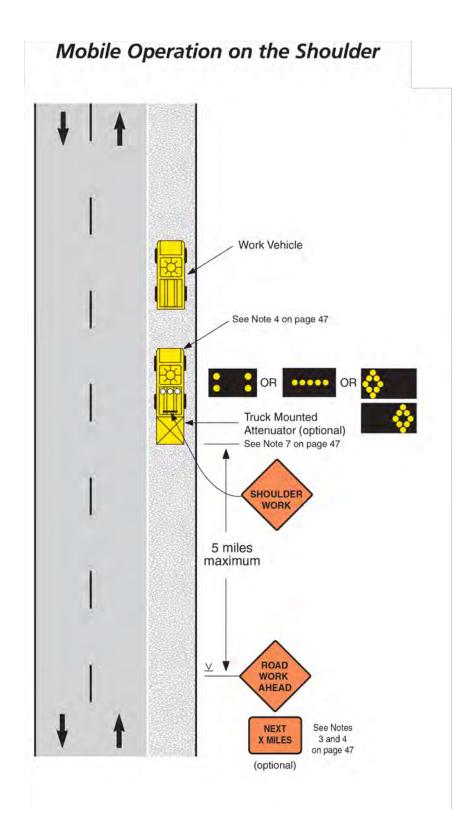
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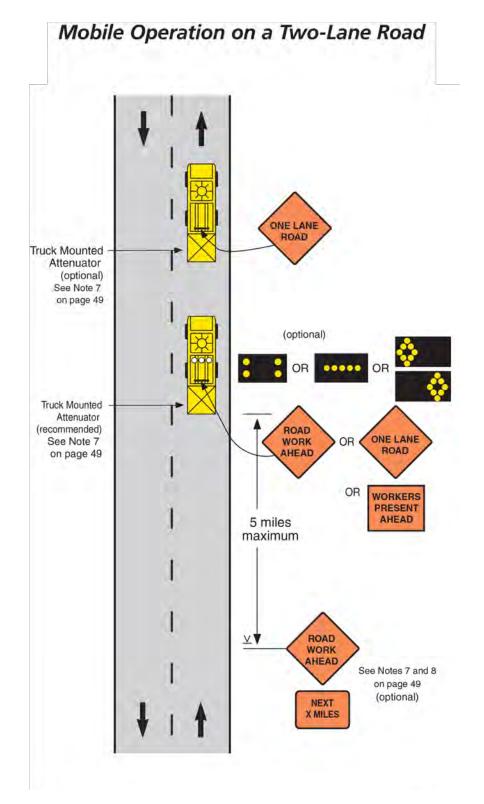
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GRID NUMBER

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3701 COMMUNICATIONS WAY EVANSVILLE, IN, 47715



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TASK DESCRIPTION

FIBER OPTIC CONDUIT PLACEMENT

PROJECT ARE

LACROSSE, WI, USA

SHEET SCALE

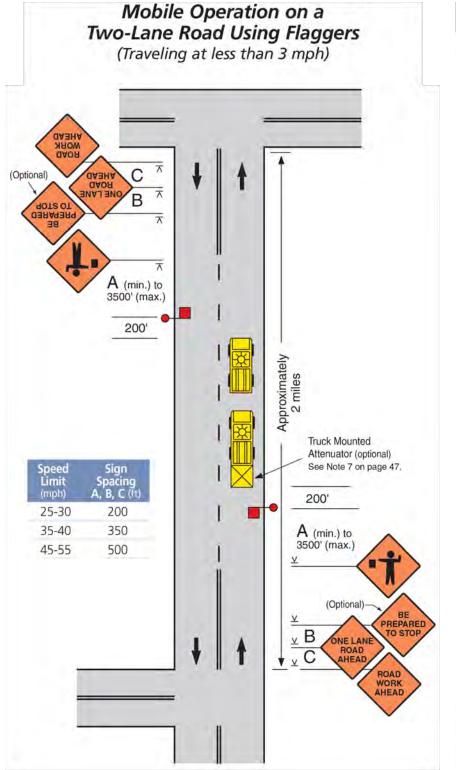
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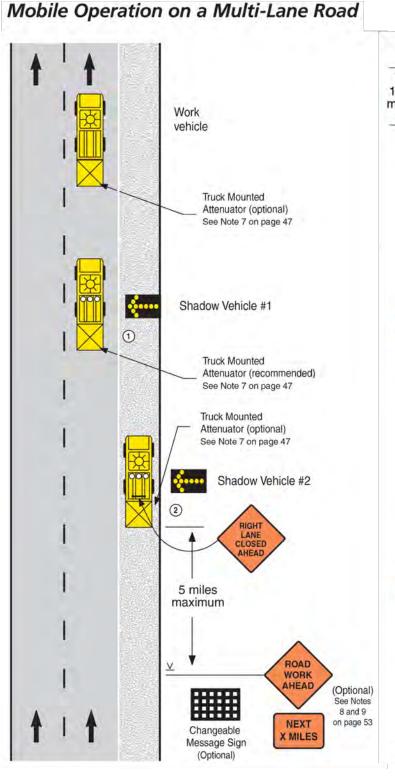
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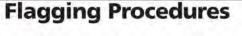
TRAFFIC CONTROL STANDARD DETAILS

GRID NUMBER

SHEET NUMBER















Properly trained flaggers

- give clear messages to drivers as shown
- allow time and distance for drivers to react
- never stand in moving traffic lane
- coordinate with other flaggers

Properly equipped flaggers use

- approved sign paddles
- approved safety vest, shirt or coat
- · brightly colored hat for better visibility
- retroreflective night equipment

Proper flagging stations have

- good approach sight distance
- · high visibility to traffic
- illumination at night

Proper advance warning

- always use warning signs
- allow reaction distance from
- remove signs when not flagging

Flags should only be used in emergency situations. Flags used for signaling shall be a minimum of 24" x 24", red in color and mounted on a staff about 3' long.

See the Flagger's Handbook for more information on flagging procedures. Transportation Information Center-LTAP University of Wisconsin-Madison epd.wisc.edu/tic

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TASK NAME

WILC-FR03

TASK DESCRIPTION

FIBER OPTIC CONDUIT **PLACEMENT**

LACROSSE, WI, USA

SHEET SCALE

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SHEET TITLE

TRAFFIC CONTROL STANDARD DETAILS

GRID NUMBER

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