

MCImetro ACCESS TRANSMISSION SERVICES CORP D/B/A VERIZON ACCESS TRANSMISSION **OUTSIDE PLANT CONSTRUCTION** FIBER OPTIC CABLE ROUTE

123069_8001 FORESTVIEW LN N 2203EAFI DESIGN 5.19.2022

FQNID	EWO NFID
	2203EAFI

MAPLE GROVE, MINNESOTA

PROJECT STATUS: ISSUED FOR PERMITTING STATUS DATE: 05-19-2022







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PROJECT: 123089_8001 FOREST MAPLE GROVE, MN CLARIFICATION NO. QUANTIT ACCESS TRANSMISSION SERVICES, LLC 19.2022 ß 3EAFI_DESI 8001 FORESTVIEW LN N_220 123069 DATE: 05-19-2022 ENGINEER: YL DRAWN BY: YL REVISIONS DESCRIPTION DATE NITIA 05-19-2022 CONSTRUCTION PKG YL EXCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRACT. THESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN TH ROPERTY OF MIC COMMUNICATIONS SERVICES, INC. BO IEUNG ISSUED IN STRICT CONFIDENCE AND SHALL NOT BE KEPRODUCED, COPIED, OR USED FOR ANY PURPOSE WITHOUT SPECIFIC WRITTEN PERMISSION. SCALE HORIZONTAL: NTS VERTICAL: NTS MP TO MP OF 8 SHEET 2 FILE: 123069_8001

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IMAGES

LOCATION MAP

PROP

EXISTING CORE



PROPOSED AERIAL

PROPOSED OVERPULL CABLE

MCI											
	VIEW LN N_2203E	AFI_DESIGN_5.19.2022									
MAPLE GROVE. MN											
CLARIFICATION NO. QUANTITY											
CLARINGARION NO.											
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CONTACT SHEET

VERIZON BUSINESS

OUTSIDE PLANT ENGINEERING:

PROJECT ENGINEER: ANDY FRETTE 1200 WASHINGTON AVE MINNEAPOLIS, MN 55401

SENIOR PROJECT ENGINEER: DAN SCHMIDT 1200 WASHINGTON AVE MINNEAPOLIS, MN 55401

OUTSIDE PLANT CONSTRUCTION:

PROJECT SUPERVISOR:

FIELD CONST. SUPERINTENDENT: MANAGER:

RIGHT-OF-WAY:

AGENT: MANAGER:

CONTRACTS:

OTHERS:

PROGRAM MANAGER: LIGHTWAVE ENGINEER: CIVIL ENGINEER: TERMINAL CONST. REP.: SPLICING MANAGER: TSO MANAGER:

ENGINEERING CONTRACTOR

NAME OF FIRM: MI-TECH SERVICES PROJECT MANAGER: YER LO

CONSTRUCTION CONTRACTOR

NAME OF FIRM: COMLINK MIDWEST PROJECT MANAGER: MONA ROULAINE

651-329-8403

612-283-3088

RAILROADS

612-919-1751

612-221-7997

UTILITIES

AT&T TRANSMISSION CENTURYLINK CENTER POINT ENERGY COMCAST CITY OF MINNEAPOLIS WATER CITY OF MINNEAPOLIS TRAFFIC CITY OF MINNEAPOLIS SEWER DISTRICT ENERGY EXTENET SYSTEMS INC HENNEPIN COUNTY PUBLIC WORKS LEVEL 3 COMMUNICATIONS METRO TRANSIT METRO WASTE COMMISSION MNDOT QWEST COMMUNICATIONS ROGERS COMMUNICATIONS SPRINT/LONG DISTANCE ST PAUL REGIONAL WATER ST PAUL SEWER ST PAUL TRAFFIC AND LIGHTING ST PAUL PARKS WINDSTREAM COMMUNICATIONS XCEL ENERGY ZAYO BANDWIDTH ZAYO ENTERPRISE NETWORKS LLC

CITY GOVERNMENT

CITY OF MAPLE GROVE KELLY MATZKE WORK: 763-494-6365 CELL: 612-968-3615 KMATZKE@MAPLEGROVEMN.GOV

COUNTY GOVERNMENT

STATE GOVERNMENT

(612) 344-3327

(855) 742-6062

(800) 778-9140

(800) 762-0592

(612) 673-5600

(612) 673-5600

(612) 673-5600

(651) 297-8955

(800) 778-9140

(406) 541-9571

(877) 366-8344

(612) 349-7547

(651) 602-4511

(651) 366-5750

(800) 283-4237

(877) 459-2690

(800) 521-0579

(651) 266-6868

(651) 266-9850

(651) 266-9777

(651) 632-5129

(800) 289-1901

(800) 848-7558

(888) 267-1063

(218) 346-5500

MINNESOTA DEPARTMENT OF TRANSPORTATION ANN DRIVER UTILITY PERMITS MAILSTOP 678 395 JOHN IRELAND BLVD SAINT PAUL, MN 55155

FEDERAL GOVERNMENT



PROJECT

MAPLE GR	OVE, N	/N	
CLARIFICATION N	10.	QU	ANTITY
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GENERAL NOTES

- 1. VERIZON BUSINESS COMPRISES THE FOLLOWING OPERATING ENTITIES
 - MCI COMMUNICATIONS SERVICES, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES, LLC MCI METRO ACCESS TRANSMISSION SERVICES

 - OF VIRGINIA, INC.
 - MCI METRO ACCESS TRANSMISSION SERVICES OF MASSACHUSETTS, INC.
 - METROPOLITIAN FIBER SYSTEMS OF NEW YORK, INC.
- ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY, VERIZON BUSINESS AND THE RIGHT-OF-WAY GRANTOR
- 3. LOCATIONS OF SOME OF THE PHYSICAL FEATURES WERE OBTAINED FROM DATED RAILROAD EVALU-ATION MAPS OR OTHER DRAWINGS AND MAY NOT BE AS SHOWN OR DEPICTED ON THESE DRAWINGS.
- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVA-TIONS BUT ARE NOT NECESSARILY EXACT. THERFORE, UTILITY LOCATIONS WILL BE VERIFIED AT LEAST 100 FEET IN ADVANCE OF TRENCHING OR PLOWING, SO THAT CHANGES IN CABLE PLACEMENT CAN BE MADE IN THE EVENT OF CONFLICT
- ANY AND ALL IMPROVEMENTS, SUCH AS ASPHALT OR CONCRETE PAVEMENT, CURBS, GUTTERS, WALKS, DRAINAGE DITCHES, EMBANKMENTS, SHRUBS, TREES, GRASS SOD, ETC., IF DAMAGED, SHALL BE RESTORED TO ORIGINAL CONDITION.
- 6. EQUIPMENT TYPES SPECIFIED HEREIN (IE: "BACKHOE", SWAMP PLOW" ETC.) ARE SUGGESTIONS ONLY AND ARE NOT INTENDED AS REQUIREMENTS.
- 7. SHORING OF EXCAVATIONS AND TRENCHES IN ACCORDANCE WITH OSHA REGULATIONS IS MANDATORY.
- BURIED CABLE MARKERS WILL BE PLACED AT ALL UNDERGROUND UTILITY LOCATIONS AND ALL OTHER LOCATIONS IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND THE OUTSIDE PLANT HANDBOOK.
- 9. ALL 2" ID CONDUIT WILL BE HDPE, OR AS SPECIFIED.

3.

4.

5.

6.

10. UNDERGROUND CONDUIT WILL BE PLACED AT 36" MINIMUM COVER UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS

CLARIFICATION NOTES

- 1. STATION
- 2. LOCATION
- 3. CLARIFICATION NO. AND MINIMUM COVER
- 4 QUANTITY LINEAR FOOTAGE/SQUARE FOOTAGE, SIZE OF MANHOLE/HANDHOLE SIZE OF PULL/SPLICE BOX, DIMENSION OF WALL, HEIGHT/CLASS/TYPE OF POLE
- 5. TYPICAL DRAWING NO. AND TYPICAL DETAIL DRAWING NUMBER
- 6. PLANT ACCOUNTING CODE
- 7. SPECIFIED CONDUIT. HANDHOLE/MANHOLE NO., SPECIFIED PURPOSE AND MATERIAL, BRIDGE NO, AND RAILROAD STATION, MATERIAL, POLE NO.

ADDENDUM NOTES

100 110 JACK AND DRY BORE CONDUIT(S) GROUND. PLACE CONDUIT 200 210 212 PLACE HIGH DENSITY POLYETHYLENE (HDPE) 213 ROCK ADDER 214 SLURRY BACKFILL ADDER 215 EXPOSE CONDUIT REPRESENTATIVE.) 216 EXPOSE COMDUIT AND RELOCATE 217 EXPOSE CONDUIT AND REPLACE/SUBSTITUTE THAT WHICH EXISTED PRIOR TO WORK. EXPOSE AND REMOVE CONDUIT 218 219 EXPOSE AND REMOVE CONDUIT (ABANDONED) 220 CONCRETE ENCASE 221 REMOVE CONCRETE ENCASEMENT JURISDICTION IN THE WORK ZONE REMOVE CONCRETE CAP 222 240 PLACE HANDHOLE 244 REMOVE EXISTING HANDHOLE 245 RELOCATE HANHOLE REPLACE/SUBSTITUTE HANDHOLE 247 EXCAVATE SPLICE PIT 250 PLACE MANHOLE 252 REMOVE EXISTING MANHOLE 255 RELOCATE PRECAST MANHOLE 256 REPLACE/SUBSTITUTE PRECAST MANHOLE PRIOR TO PROCEEDING WITH WORK. 260 CONSTRUCT WALL

- 10. NO CONSTRUCTION ON PRIVATE PROPERTY WILL COMMENCE UNTIL
 - 11. CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL THEY HAVE RECEIVED A PURCHASE ORDER AND HAVE BEEN DIRECTED TO DO SO BY AN AUTHORIZED MCI REPRESENTATIVE.
 - 12. CONTRACTOR SHALL NOT EXCEED THE PURCHASE ORDER VALUE WITHOUT AUTHORIZATION IN WRITING FROM THE APPROPRIATE MCI REPRESENTATIVE.
 - 13. AS-BUILTS WILL BE REQUIRED FOR EACH PROJECT INCLUDING CABLE FOOTAGE SEQUENTIAL'S AT EVERY ACCESS POINT, SLACK LOOP, SPLICE LOCATION, POLE AND TERMINATION POINT, CONTRACTOR SHALL PROVIDE NOTES OF ALL CHANGES IN DEPTHS, RUNNING LINES, MH/HH LOCATIONS, AND ANY OTHER APPLICABLE NOTES TO DEPICT THE WORK THAT TOOK PLACE. NOTE: ALL MAJOR CHANGES NEED TO BE PRE-APPROVED BY AN AUTHORIZED MCI EMPLOYEE PRIOR TO STARTING THE WORK.
 - 14. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY OUALITY LEVEL D. THIS UTILITY OUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO UTILIZE THE GOPHER STATE ONE CALL EXCAVATION NOTICE SYSTEM REQUIRED MN STATUTE, CHAPTER 216D FOR ALL UNDERGROUND UTILITY LOCATIONS.
- REMOVE CABLE FROM CONDUIT 415 420 REPOSITION ACTIVE CABLE SLACK 510 DIRECT BURY CABLE EXPOSE DIRECT BURIED CABLE 515 EXPOSE DIRECT BURIED CABLE AND RELOCATE 516 517 REMOVE AND DISPOSE OF CABLE 520 PLACE AERIAL CABLE 525 RELOCATE AERIAL CABLE 526 DELASH AERIAL CABLE 527 RELASH AERIAL CABLE 528 REMOVE AERIAL CABLE 530 PLACE POLE/PUSH BRACE 535 **REMOVE POLE/PUSH BRACE** 610 JETTING CONDUIT 620 EMBEDMENT PLOW DIRECTIONAL BORE 630 PLACE BURIED CABLE MARKERS AND SIGNS/MWCOM 710 WATER CROSSING SIGNS PLACE ISOLATOR/PROTECTION SYSTEM AT EXISTING

REMOVE AND RESTORE ASPHALT

REMOVE AND RESTORE CONCRETE

REMOVE AND RESTORE SIDEWALK

PULL THROUGH DUCT (INNERDUCT)

ATTACH CONDUIT TO WALL OR STRUCTURE

DETACH CONDUIT FROM WALL OR STRUCTURE

ATTACH PULL/SPLICE BOX TO WALL OR STRUCTURE

REMOVE AND RESTORE CURBING

CORE BORE

PULL CABLE

270

280

281

282

315

320

330

411

310

410

300

400

500

600

700

- 711 HANDHOLES/MANHOLES 712 REMOVE BURIED CABLE MARKER POST/HARDWARE
- REMOVE CONCRETE BURIED CABLE MARKER POST 714

CLARIFICATION NOTES (CONTINUED)



GENERAL NOTES

1. CONTRACTOR MUST OBTAIN LOCATES PRIOR TO DISTURBING THE

2. CONTRACTOR MUST HAVE A COPY OF THE APPROVED PERMIT FROM THE APPROPRIATE AGENCY ON THE JOBSITE AT ALL TIMES

3. ALL CABLE WILL BE PLACED AT STANDARD MINIMUM DEPTH. (MCI STANDARD IS 48" DEEP UNLESS OTHERWISE DIRECTED BY A MCI

4.ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN

5. PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH

6. ALL WORK IS TO BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING

7. CONTRACTORS ARE ADVISED TO CONTACT MCI FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.

8. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS, QUANTITIES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF A SIGNIFICANT CHANGE TO THE RUNNING LINE IS NEEDED, PLEASE CONTACT YOUR MCI REPRESENTATIVE BEFORE PROCEEDING.

9.BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS

APPROVAL IS GIVEN BY THE APPROPRIATE MCI EMPLOYEE.

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	EXISTING	PROPOSED		
BURIED CABLE			GAS –	G
AERIAL CABLE	A	———— A ————	WATER -	
SUBMARINE CABLE	SUBM	SUBM	TELEPHONE -	T
FOGWIRE CABLE	FOGW	FOGW	ELECTRIC -	E
			SANITARY SEWER (SEW) -	SEW
DIRECT BURIED HDPE	——————————————————————————————————————	H	FENCE -	x x
PVC OR SPLIT PVC CONDUIT			CABLE TV -	TV
BSP/GSP OR SPLIT BSP/GSP CONDUIT			STEAM -	STM
STEEL CASING	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	<u>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</u>	OIL –	
	48"	48"	UNKNOWN UTILITY -	UNK
REMOVE AND RESTORE ASPHALT OR CONCRETE			RIGHT OF WAY -	
(WIDTH AS INDICATED)		Ť	FACE OF CURB -	F of C
CORE BORE			STREET LT/TRAFFIC SIGNAL	SL/TS
JACK AND BORE			EDGE OF PAVEMENT -	EOP
DIRECTIONAL BORE	2013	<u>1)8</u>		ROUTE_NO
FUTURE CABLE	$\square \square \square \Longrightarrow$	$\Box \Box \Box \Longrightarrow$		(#) STA FIBER_CNT
REMOVE CABLE	R	R		нн
TO BE REMOVED OR ABANDONED (SHOWN FOR HDPE)	—н	н — Х	HANDHOLE - EXISTING	STA 0+00 24x36x24
AERIAL UTILITY (ELECTRIC)	ε	E	HANDHOLE - PROPOSED	STA 0+00
UNDERGROUND UTILITY (TELEPHONE)	Ţ	T		24x36x24
MAIN TRACKS			MANHOLE - EXISTING	мн
AUXILLARY TRACKS				STA 0+00
CENTERLINE	C/L	C/L	MANHOLE - PROPOSED	MH
RIGHT-OF-WAY	R/W	R/W	SPLICE POINT - EXISTING	
EDGE OF PAVEMENT				
SIDEWALK			SPLICE POINT - PROPOSED	
DITCH LINE	D/L	D/L	SITE CALLOUT - PROPOSED	MACRO CELL NAME
TAX DISTRICT				
CITY, COUNTY OR STATE BOUNDARY LINE			AERIAL STORAGE - EXISTING	\sim
PROPERTY LINE			AERIAL STORAGE - PROPOSED	Š
FENCE LINE	xx	x		
GUARDRAIL	II	II	FDH - PROPOSED	FDH# FDH SIZE F1_COUNT
TOP OF SLOPE	· · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
TOE OF SLOPE	<u> </u>		POWER PEDESTAL	B
FACE OF CURB	——————————————————————————————————————	F of C	TELEPHONE PEDESTAL	Ī
PROPOSED FIBER IN EXISTING DUCT	OP	OP		
PROPOSED FIBER AND DUCT	DB	DB		
PROPOSED DUCT	DB	DB		
MST TAIL				

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EXISTING MCI

	EXISTING
STEEL MARKER AND SIGN-(A) ALUMINUM "HUB'-STYLE MARKER-(B) FLAT MARKER-(C) TUBULAR MARKER.(D) TUBULAR MARKER, & ISOLATOR PROTECTOR-(E)	(A)
MILE POST MARKER NOTE: DASHED = NOT FOUND IN FIELD	
PERMIT TRACKING FORM IDENTIFIER	P.T.F.
ROCK PROBE (DEPTH AS INDICATED)	
UTILITY COVER DEPTH	(48")
HANDHOLE, MANHOLE OR PULLBOX	
POLE	0
ANCHOR ONLY	<
GUY ONLY	
OVERHEAD GUY (ARROW IN DIRECTION OF PULL)	OHG 92' 10
ANCHOR AND GUY	, —• •
SIDEWALK ANCHOR AND GUY	
FOREIGN ANCHOR AND GUY	
PUSH BRACE (EXISTING POLE)	30'-5-84
ACCOUNT CODE CHANGE (BURIED TO AERIAL)	
BOND AND GROUND	- I <mark> B&G_</mark>
CULVERT (SIZE AS INDICATED)	>
BRIDGE	
WATER METER	8
GAS VALVE	Ч
FIRE HYDRANT	\$
RAILROAD SIGNAL CONTROL BOX	L MC/L
CAUTION NOTE	CITES

CONDUIT CALL OUTS



SYMBOLS KEY



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XCEPT AS MAY BE OTHERWISE PROVIDED BY CONTRAC HESE DRAWINGS AND SPECIFICATIONS SHALL REMAIN ROPERTY OF MCI COMMUNICATIONS SERVICES, INC. BC RING ISSUED IN STRICT COMFIDENCE AND SHALL NOT BI EPRODUCED, COPIED, OR USED FOR ANY PURPOSE MTHOUT SPECIFIC WRITTEN PERMISSION. SCALE NTS VERTICAL: NTS MP TO MP **OF** 8 SHEET 6 FILE: 123069_8001 FORESTVIEW LN N_2203EAFI_DESIGN

BOM / MAKE READY COST ESTIMATE PROJECT SPECIFIC

Handhole 24x30x36	Handhole 30x60x30	1.5" HDPE SDR 11 + 5%	2" HDPE SDR 11 + 5%	Ground Rods	Ground Leads	Locate Terminal	Locate Post	Marker Posts	Splice Case 600D	Splice Case 450A	Storage Loops Footage	864F Cable	432F Cable	288F Cable	144F Cable	96F Cable	72F Cable	48F Cable	24F Cable
1	0	0	133	1	1	1	1	1	1	0	200'	0'	0'	0'	0'	623'	0'	0'	0'
	Handhole 24x30x36 1	Handhole 24x30x36 1 0	Handhole Handhole HDPE 24x30x36 30x60x30 SDR 11 + 5% 1 0 0	Handhole Handhole 1.5" 2" HDPE 24x30x36 30x60x30 SDR 11 50R 11 +5% 1 0 0 133	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground Rods1001331	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsGround Leads10013311	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 +5%2" HDPE SDR 11 +5%Ground RodsGround LeadsLocate Terminal100133111	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 +5%2" HDPE SDR 11 +5%Ground RodsGround LeadsLocate TerminalLocate Post1001331111	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsGround LeadsLocate TerminalLocate PostMarker Posts10013311111	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 +5%2" HDPE SDR 11 +5%Ground RodsGround LeadsLocate TerminalLocate PostMarker PostsSplice Case 600D100133111111	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsLocate LeadsLocate PostMarker PostsSplice Case 600DSplice Case 450A100133111110	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsLocate LeadsLocate PostLocate PostMarker PostsSplice Case 600DSplice LoopsSplice L	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 +5%2" HDPE SDR 11 +5%Ground RodsLocate LeadsLocate PostMarker PostSplice Case 600DSplice Case 450ASplice LoopsSplice	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 +5%2" HDPE SDR 11 +5%Ground RodsLocate LeadsLocate PostMarker PostSplice Case 600DSplice Loops FootageStorage Loops Footage864F Cable432F Cable100133111110200'0'0'	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsLocate LeadsLocate PostMarker PostSplice Case 600DSplice Splice Case 450AStorage Loops Footage864F Cable432F Cable288F Cable100133111110200'0'0'0'0'	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsLocate LeadsLocate PostMarker PostSplice Case 600DSplice SpliceStorage Loops Footage864F Cable432F Cable288F Cable144F Cable100133111110200'0'0'0'0'0'	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsLocate TerminalMarker PostSplice Case 600DSplice Case 450AStorage Loops Footage864F Cable432F Cable288F Cable144F Cable96F Cable100133111110200'0'0'0'0'0'623'	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsLocate TerminalLocate PostMarker PostsSplice Case 600DSplice Splice Case 450AStorage Loops Fotage864F Cable432F Cable288F Cable144F Cable96F Cable72F Cable100133111110200'0'0'0'0'623'0'	Handhole 24x30x36Handhole 30x60x301.5" HDPE SDR 11 + 5%2" HDPE SDR 11 + 5%Ground RodsLocate TerminalLocate PostMarker PostsSplice Case 600DSplice Case 450AStorage Posts864F Cable432F Cable288F Cable144F Cable96F Cable72F Cable48F Cable100133111110200'0'0'0'0'23'0'0'0'

BIDUNIT	DESCRIPTION	UNIT	QUANTITY
BDE-100	SimpleOSPDesign	Each	0
BDE-101	SimpleOSPDesignAdder(toBDE-100)	Each	0
BDE-200	FullOSPDesign	Each	1
BDE-201	FullOSPDesignAdder(toBDE-200)	Each	0
BDE-300	DirectCostApplicationFees	Actual+5%	0
BDE-400	PropertyAccessApproval-MTU/Stip/Campus	Each	0
BDE-501	PropertyDesignandEngineering-MTU1-15units	Each	0
BDE-502	PropertyDesignandEngineering-MTU16-50units	Each	0
BDE-503	PropertyDesignandEngineering-MTU50+units	Each	0
BDE-504	PropertyDesignandEngineering-StripMall1-5units	Each	0
BDE-505	PropertyDesignandEngineering-StripMall6+units	Each	0
BDE-506	PropertyDesignandEngineering-Campus1-5units	Each	0
BDE-507	PropertyDesignandEngineering-Campus6-20units	Each	0
BDE-508	PropertyDesignandEngineering-Campus21+units	Each	0

PERMITS REQUIRED		
PERMIT AGENCY/PERMIT NUMBER	SHEET #	FOOTAGE
CITY OF MAPLE GROVE	8	155'

												PROJ		29_8001 FORESTVIEW LN	N_2203EAF1_DE5/GN_5 19 202	
arker	Splice	Splice	Storage	864F	432F	288F	144F	96F	72F	48F	24F		MAPLE G	ROVE. MN		
osts	Case	Case	Loops	Cable	Cable	Cable	Cable	Cable	Cable	Cable	Cable					
	600D	450A	Footage									CLARIFI	CATION	NU. I	JUANTIT	
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BDC-104	Constr	uction-New U	nderground ix		Foot	122										
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STANDARD SIDEWALK DETAILS



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HANDHOLE SLACK STORAGE DETAILS



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MCI Outside Plant FOCUS *F*iber *O*ptic *C*able *U*ncovering *S*ystem

- 1) The title of this program, <u>F.O.C.U.S.</u>, an acronym for <u>Fiber Optic Cable Uncovering System</u> was selected to remind everyone involved with working near MCI's active fiber optic systems to focus on protecting the facilities. If, during the course of the project, YOU notice any activity which may jeopardize the MCI OSP facilities, it is your duty to stop the work and re- FOCUS.
- 2) FOCUS rules must be followed on all MCI projects involving work on or near MCI OSP facilities. Safety is MCI's number one priority; everyone must refrain from unsafe and improper practices.
- 3) Review of FOCUS is mandatory at every Pre-bid, Pre-construction, site meeting and daily tailgate meeting. FOCUS discussion must include site-specific history, unique problems, facility configurations that may be encountered, and past errors. "Those who do not learn from history are doomed to repeat it". Do not let this happen to you.
- 4) Any work near or requiring handling of MCI Outside Plant facilities can only be performed with an MCI employee or contract representative present -- THIS MEANS OUT OF HIS OR HER VEHICLE AND DIRECTLY MONITORING THE WORK. The representative must have a properly operating cable locator checked for accuracy every day prior to commencement of work (comparison of line and depth readings to actual line and depth of the cable).
- 5) Locate and Pothole Requirements.
 - Prior to any excavation, the MCI employee or contract representative must verify the initial locate marks completed by MCI Operations. **Do not trust locate results completed by others!** The MCI or contract representative must locate the cable running line by making at least one pass in each direction. Locate results must then be compared with previous marks and the asbuilts.
 - If the proposed work involves digging or excavating *within 3 feet* of the cable, the cable route will be marked <u>continually</u> with orange paint and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole (all potholes must be completed by hand digging or vacuum excavation) a minimum of every 15 ft., then expose the entire length of the cable by hand digging or vacuum excavation.
 - If the proposed work involves digging or excavating *within 5 feet (but not closer than 3 feet)* of the cable, the cable route will be marked with a <u>continuous dashed</u> orange line and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole the cable a minimum of every 15 ft.
 - If the proposed work involves digging or excavating *within 15 feet (but not closer than 5 feet)* of the cable, the cable route will be marked with a <u>continuous dashed</u> orange line and supplemented by marker flags placed every 10 ft. The excavation contractor must pothole the cable a minimum of every 30 ft.
 - The cable will also be potholed at any change in the running line of more than 1 ft. in any direction, anytime the accuracy of the electronic locate is questioned, or the marked running line does not match the as-builts.
- 6) Exposing Requirements.
 - No mechanical excavation within 3 ft. of OSP facilities will be allowed unless the facilities have first been properly located, potholed, positively identified, continuously exposed by hand digging or vacuum excavation, and the facilities are clearly visible.
 - In addition, mechanical excavation within three feet of OSP facilities requires onsite prior approval from MCI's employee or contract representative.

7) Please refer to the latest edition of the MCI OSP Handbook for additional details. Know it and follow it.

Release 1.1



MCI Outside Plant Construction General Requirements

- All Federal, State and local safety regulations must be followed without exception.
- Personal protective equipment appropriate for the specific work site shall be used at all times. At a minimum, hard hat, safety shoes/steel toed boots and florescent orange or green work vest are required upon entering any MCI work site.
- Use of intoxicants, drugs, inhalants or any other substances that may impair alertness are strictly prohibited.
- Contractors are NOT allowed to cut any cable. Cables scheduled for removal will be cut by MCI Operations personnel, and only after verification that all traffic has been off-loaded.
- Extreme caution must be used at all times when working on or near active cables. An MCI employee or contract representative must approve and be present prior to and during all cable handling activities.
- Tools and equipment specifically designed for the job at hand are required. USE THE PROPER TOOL FOR THE JOB.
- Conduit work involving active cables requires specialized tools specifically designed to access ducts with active cables.
- Protecting MCI facilities is EXTREMELY important; however, SAFETY regarding yourself and others is the most important part of any project.