

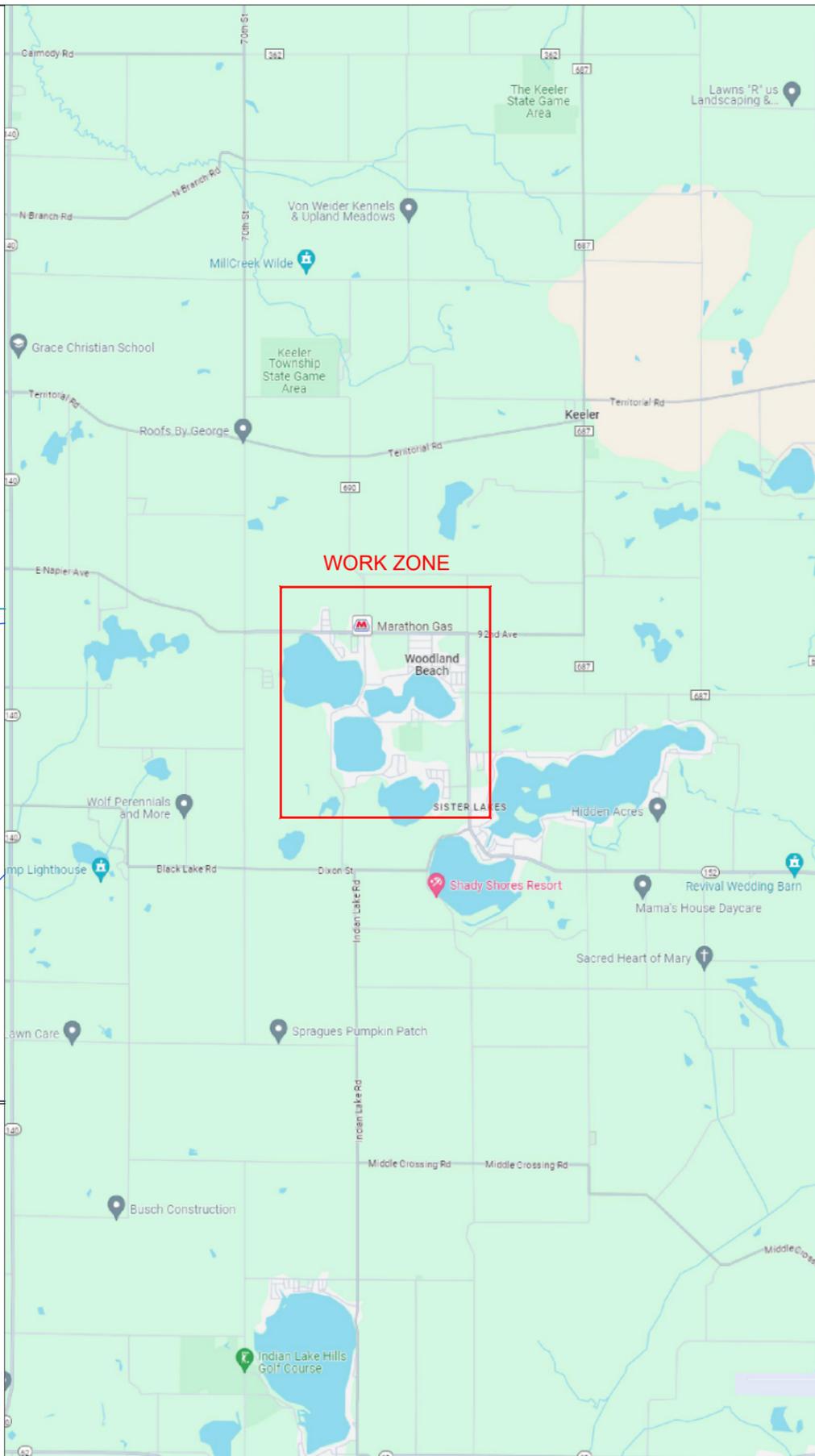
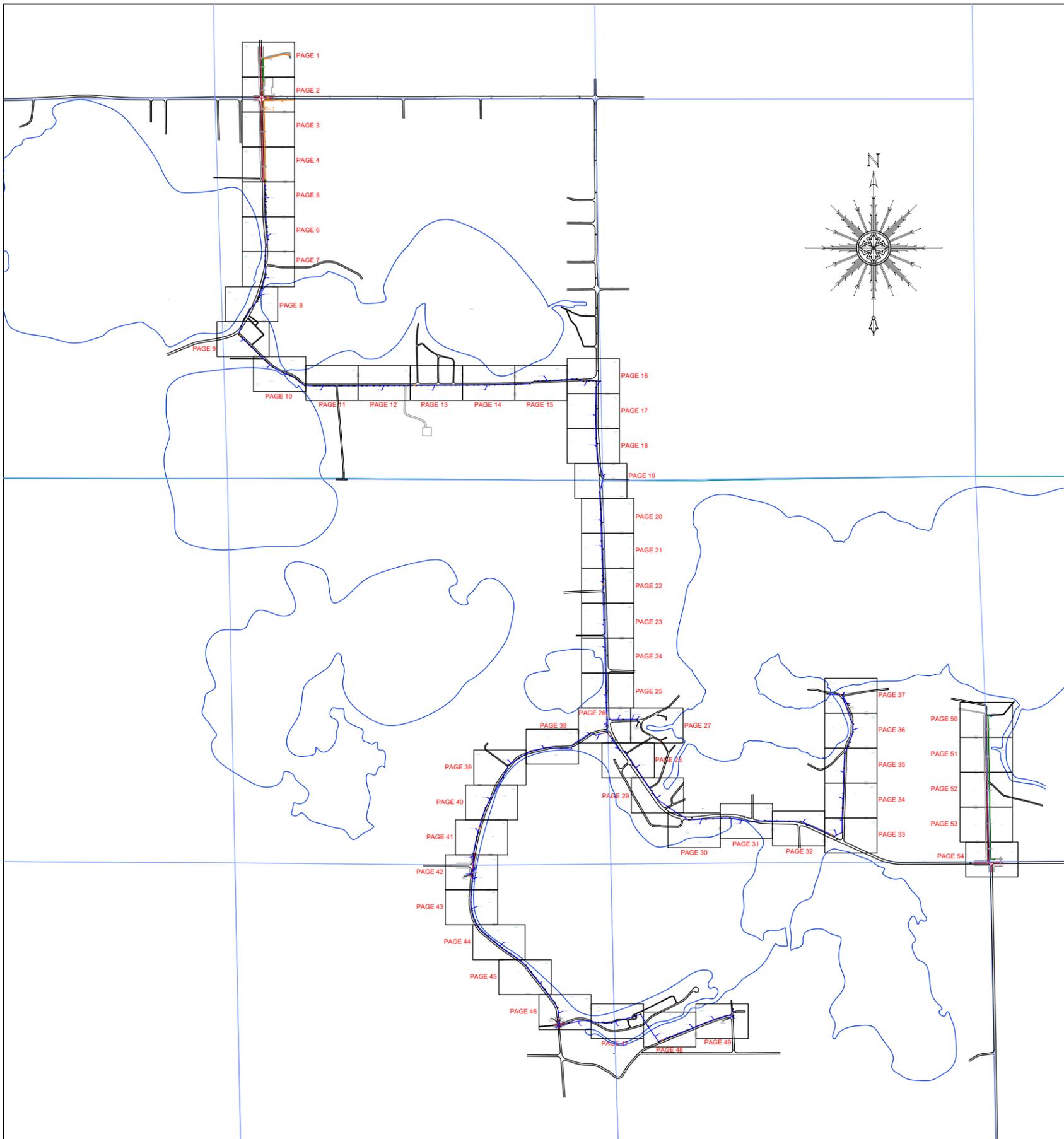


Advanced Communications & Data
KEPS Technologies, Inc. d/b/a ACD.net
FIBER OPTIC CABLE ROUTE

Project Number
VB094327FO41302

517-999-9999

1800 Grand River Ave
Lansing MI 48906



ACD
 Advanced Communications & Data
 517-999-9999
 1800 Grand River Ave
 Lansing MI 48906

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MISS DIG 1-800-482-7171	O.U.P.S 1-800-362-2764	INDIANA811 1-800-382-5544
----------------------------	---------------------------	------------------------------

Project Manager

T. Brown

Permitting

T. Brown

Transport Manager

G. Gould

Drawn By Date

DTW 1-30-24

As Built Date

Revisions

REV #	DESCRIPTION	BY	DATE
1	Added conduit to small cell site	DW	2/2/24
2	Added Poles, Overlaid Fiber Lines, and Fiber Designs	KN	2/15/24
3	UG Revision	KN	2/19/24
4	Reroute	KN	03/18/24
5	Revised Fiber Design, revised aerial, added UG for SLG, OC Revisions	KN	04/12/24

Exhibit: N/A

Remarks:		PEACHTREE ID: 41302	
SCALE: 1" = NTS	TRIS:		
COUNTY: Cass/Van Buren	TOWNSHIP: Silver Creek/Keller	CITY:	PROJECT ID: VB094327FO41302
			CUSTOMER NUMBER: 94327

GRID KEY

General Site Preparation For Installing Hand Holes (All Sizes)

These guidelines for installing ACD Hand holes are provided as a general guide and actual site conditions may warrant the use of additional installations procedures not covered here. Follow all project specifications when installing ACD Hand holes.

1. Excavate the earth approximately 12" wider and longer than the hand hole as well as 6" deeper than the depth of the hand hole. Fill the excavation with a 6" base of pea stone or crushed rock to ensure proper drainage. Tamping is recommended to provide a compact and level surface for the hand hole to be placed upon.
2. Wood bracing should be used inside the hand hole to ensure minimal sidewall deflection when backfilling. Temporary bracing can be constructed out of construction grade lumber. Start by using (1) 2x4 to brace the end walls and (2) 2x4s to brace the side walls, finish with (1) 2x4 from one side of the ring to the other. Do not install the bracing to tight to prevent damage.
3. Lift the Hand hole into the excavation using the lifting bolts or lifting wires. Check the top of the box is flush with the finished grade. Any necessary adjustments should be made to bring it to finished grade.
4. Backfill with clean, loose soil and compact to a minimum of 90%-95% compaction. Remove bracing materials and secure cover using included hardware.

General Hand Hole Notes (All Sizes)

1. All Hand holes are to contain 150' of coiled up storage.
2. All Conduits are to be brought up through the bottom of the hand hole. No Conduits are to penetrate the sides of the enclosure. All conduits are to be tagged with the colored zip ties following this system:
Red= Riser
Blue= North
Yellow= West
Green= South
Black= East
3. All Hand holes are to contain a 5/8" DIA x 8' grounding rod to be placed in a corner 3" away from each side and 18" above tamped earth.

Restoration Notes

1. All backfill material within the road right of way or near sidewalks and pathways shall meet the requirements of MDOT Class II material, compacted to 95% of its maximum density in successive layers that are no more than 12" thick, unless otherwise authorized
2. All sodded areas that may disturbed during construction are to be restored with 3" quality top soil, seed and mulch
3. All Concrete/Sidewalk areas that may be disturbed are to be restored to a like or better condition.

Underground Coupler Detail

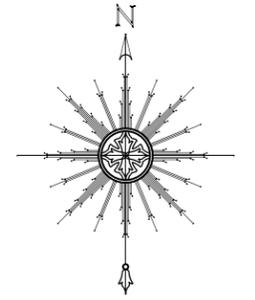
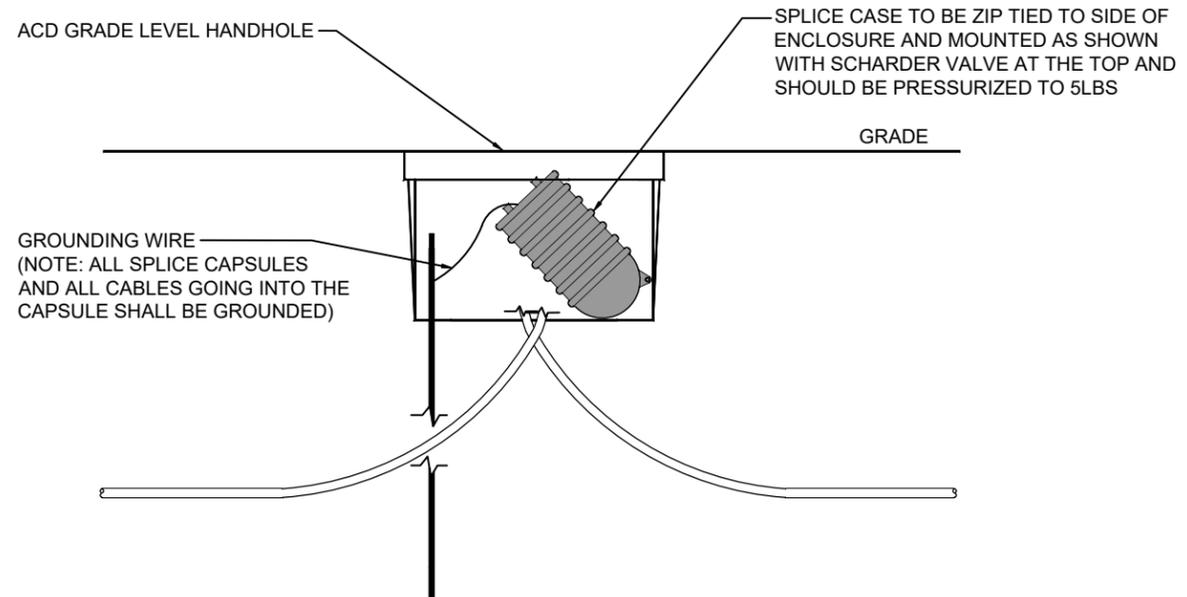
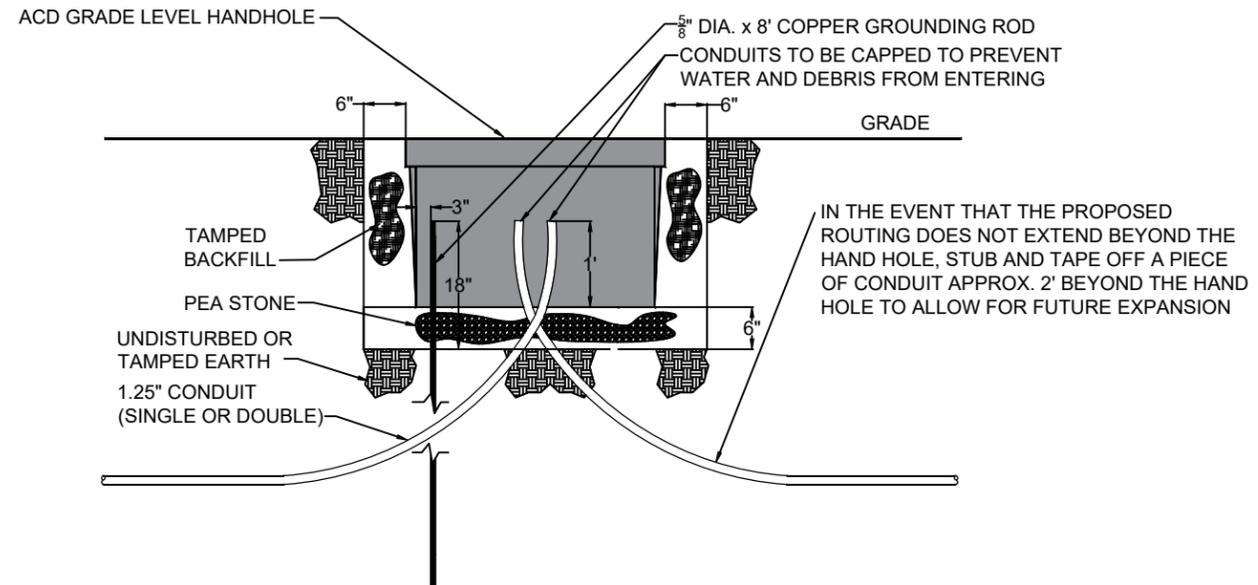
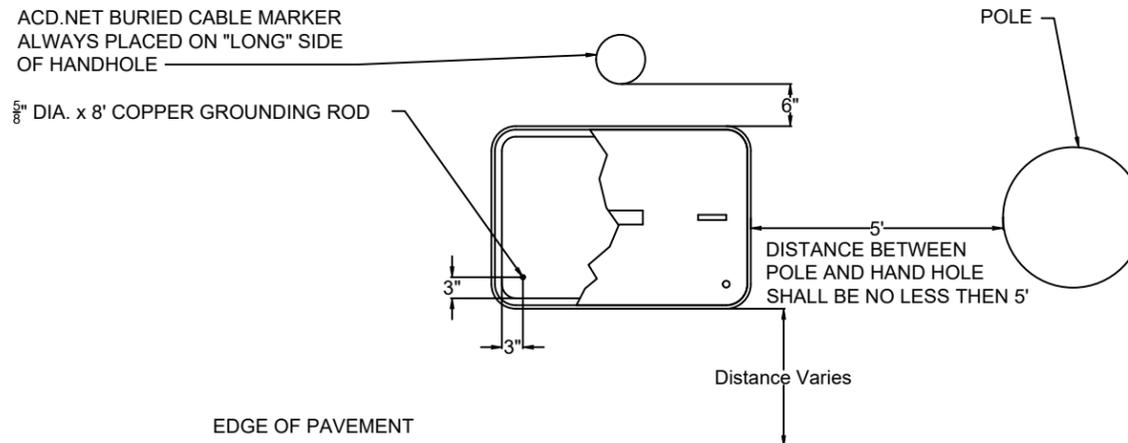
PUSH2CONNECT™ Coupler

Do Not Unscrew!

Push-On-Only!
(Loosening collars prior to installing can cause improper installation, create air loss, or coupler failure)

Air Tight - Water Tight
Tested to **GREATER THAN 1500#**
Pull-Out
GREATER THAN 450 (psi) air pass-through

Couplers for the Following Sizes	Duct OD	Color	Box Qty	Part Number
1" Smoothwall HDPE	1.315"	Yellow	85	P2C-1.315
1.25" Smoothwall HDPE	1.66"	Blue	100	P2C-1.66
1.25" Smoothwall HDPE True Sized	1.58"	Black	100	P2C-1.58
2" Smoothwall HDPE	2.375"	Orange	24	P2C-2.375
Transition Coupler 1.25" to 1.25"	1.58" to 1.66"	Black AND Blue	100	P2C-1.66-1.58trans




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T. Brown

Permitting

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Transport Manager

G. Gould

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DTW 1-30-24

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Revisions

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1		DW	2/2/24
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2		KN	2/15/24
	Added Poles, Overlaid Fiber Lines, and Fiber Designs		
3		KN	2/19/24
	UG Revision		
4		KN	03/18/24
	Rework		
5		KN	04/12/24
	Revised Fiber Design, revised aerial, added UG for SLC, OC Revisions		

Exhibit: N/A

HAND HOLE

INSTALLATION

DETAILS AND NOTES

Remarks:

PEACHTREE ID: 41302

SCALE: 1" = NTS

TRS:

COUNTY: Cass/Van Buren

TOWNSHIP: Silver Creek/Keller

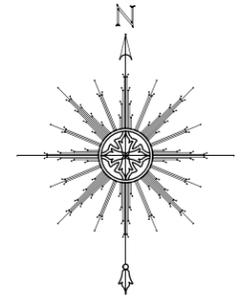
CITY:

PROJECT ID: VB094327FO41302

CUSTOMER NUMBER: 94327

CONSTRUCTION NOTES

1. CONTRACTOR SHALL EMAIL BROWN.TARA@ACD.NET WITH DAILY STATUS UPDATES AND ONCE WORK IS COMPLETE
2. MUNICIPALITY MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE ANY WORK COMMENCES
3. ALL APPROPRIATE PERMITS AND ASSOCIATED DRAWINGS SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION
4. NOTIFY THE APPROPRIATE UTILITY NOTIFICATION SERVICE 72 HOURS PRIOR TO CONSTRUCTION.
MICHIGAN- MISS DIG (1-800-482-1711), OHIO- O.U.P.S. (1-800-362-2764) OR INDIANA- INDIANA811 (1-800-382-5544)
5. ALL UTILITIES MUST BE FIELD VERIFIED
6. ALL HANDHOLES ARE TO INCLUDE 150' OF COILED FIBER FOR STORAGE
7. NEW INSTALLATION SHALL MAINTAIN 18" CLEARANCE FROM ALL EXISTING UTILITIES UNLESS NOTED OTHERWISE
8. ALL ROAD AND DRIVEWAY CROSSINGS WILL BE DIRECTIONAL BORED
9. CONSTRUCTION SHALL NOT DEVIATE FROM APPROVED PLANS WITHOUT WRITTEN CONSENT FROM BOTH THE MUNICIPALITY AND AN AUTHORIZED ACD.NET REPRESENTATIVE
10. PROPER SIGNAGE AND TRAFFIC CONTROL IS REQUIRED BEFORE STARTING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY
11. ALL BACKFILL MATERIAL WITHIN THE ROAD RIGHT OF WAY OR NEAR SIDEWALKS AND PATHWAYS SHALL MEET THE REQUIREMENTS OF MDOT CLASS II MATERIAL, COMPACTED TO 95% OF ITS MAXIMUM DENSITY IN SUCCESSIVE LAYERS THAT ARE NO MORE THAN 12" THICK, UNLESS OTHERWISE AUTHORIZED
12. ALL SODDED AREAS THAT MAY DISTURBED DURING CONSTRUCTION ARE TO BE RESTORED WITH 3" QUALITY TOP SOIL, SEED AND MULCH
13. ALL CONCRETE/SIDEWALK AREAS THAT MAY BE DISTURBED ARE TO BE RESTORED TO A LIKE OR BETTER CONDITION.
14. CONTRACTOR SHALL PROVIDE AS-BUILTS ON ALL WORK WITHIN 5 BUSINESS DAYS OF COMPLETION



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Permitting

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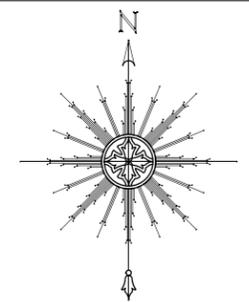
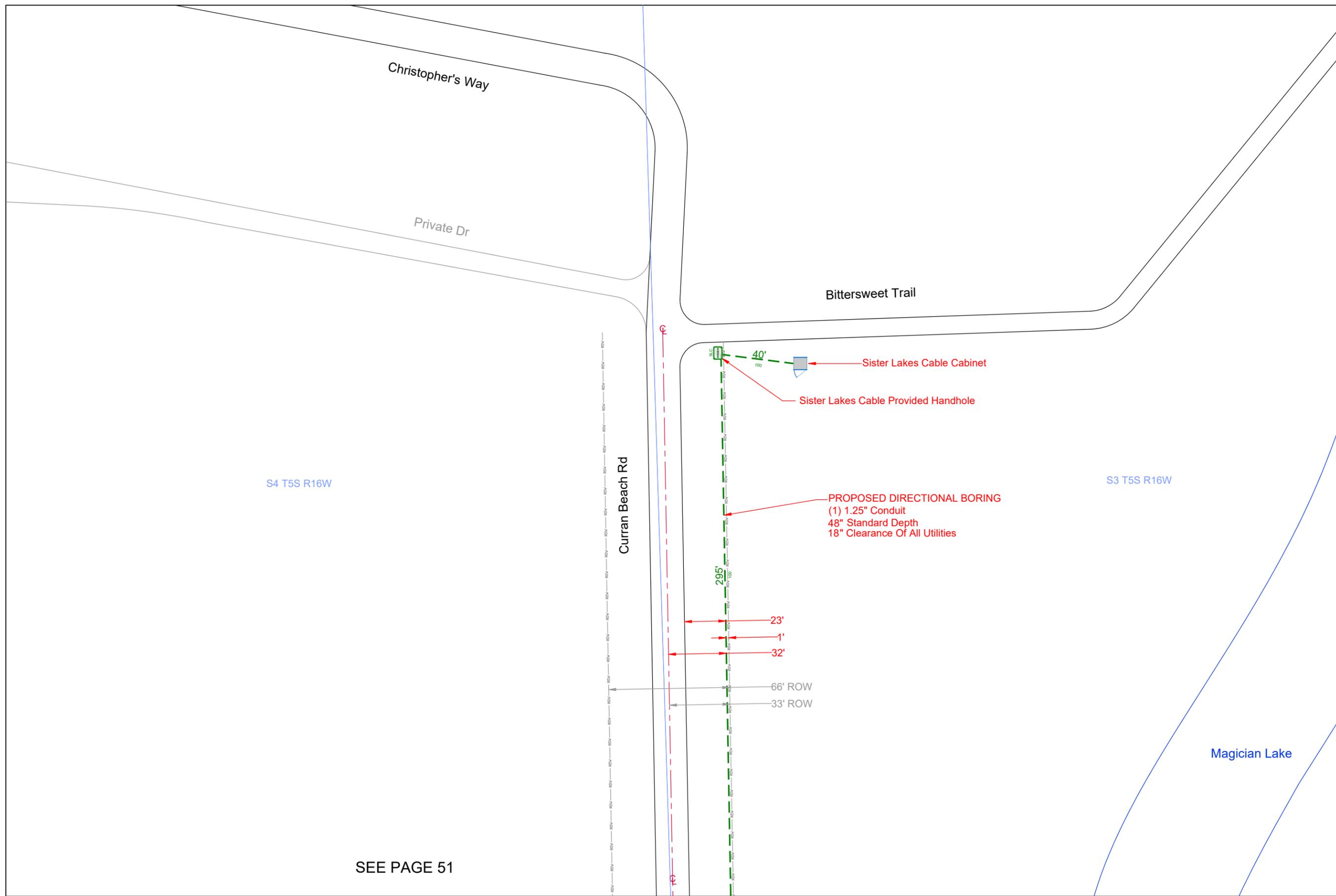
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Exhibit: N/A

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SCALE: 1" = NTS	TRS:			
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NOTES



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G. Gould

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DTW 1-30-24

As Built **Date**

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Exhibit: N/A

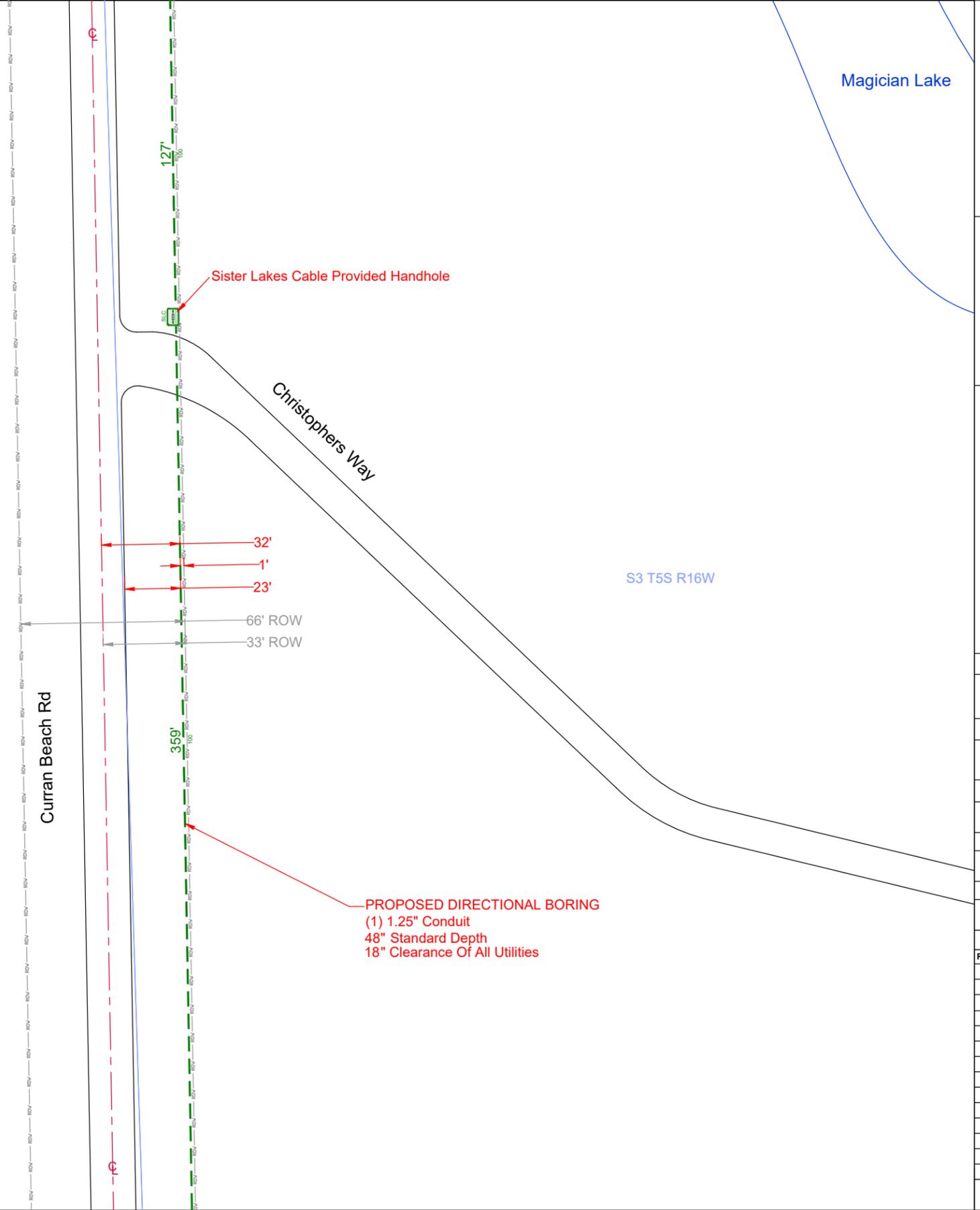
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SCALE: 1" = 50'	TRIS: S3 T5S R16W	S4 T5S R16W		
COUNTY: Cass	TOWNSHIP: Silver Creek	CITY:	PROJECT ID: VB094327FO41302	CUSTOMER NUMBER: 94327

SEE PAGE 51

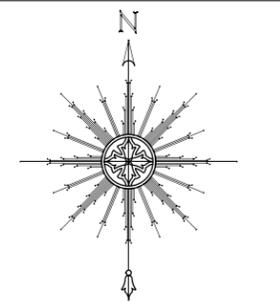
SEE PAGE 51

S4 T5S R16W

SEE PAGE 53



Magician Lake



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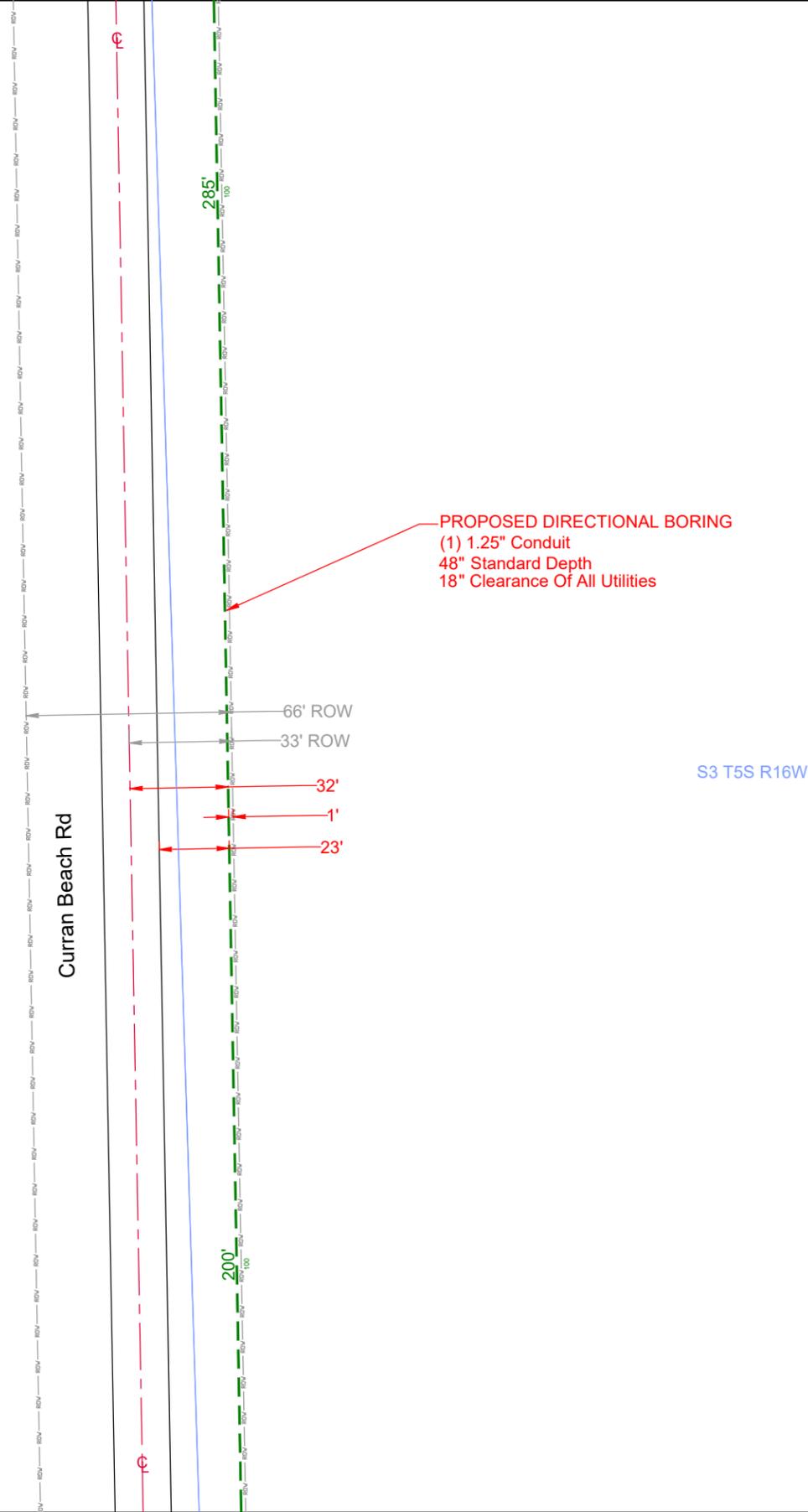
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Remarks:			PEACHTREE ID: 41302	
SCALE: 1" = 50'	TRIS: S3 T5S R16W	S4 T5S R16W		
COUNTY: Cass	TOWNSHIP: Silver Creek	CITY:	PROJECT ID: VB094327FO41302	CUSTOMER NUMBER: 94327

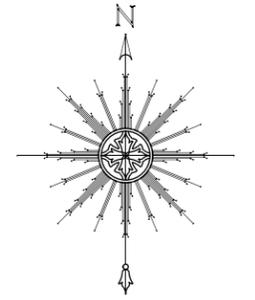
SEE PAGE 52

S4 T5S R16W

SEE PAGE 54



PROPOSED DIRECTIONAL BORING
 (1) 1.25" Conduit
 48" Standard Depth
 18" Clearance Of All Utilities



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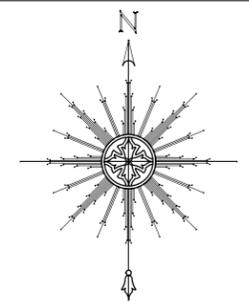
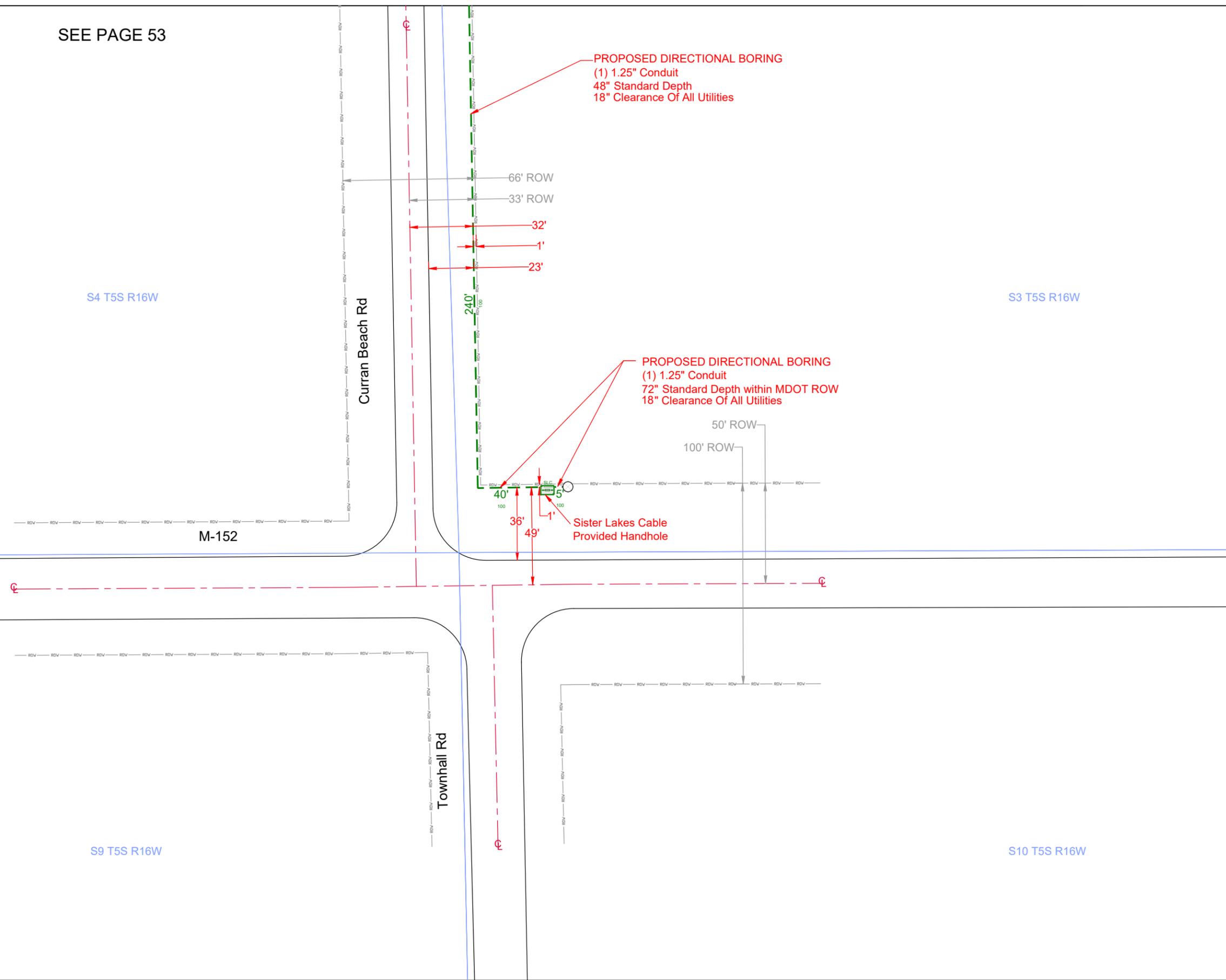
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Exhibit: N/A

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SCALE: 1" = 50'	TRS: S3 T5S R16W	S4 T5S R16W		
COUNTY: Cass	TOWNSHIP: Silver Creek	CITY:	PROJECT ID: VB094327FO41302	CUSTOMER NUMBER: 94327

PG 53

SEE PAGE 53



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Project Manager

T. Brown

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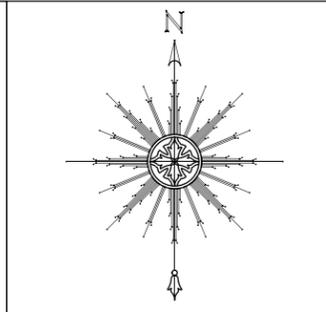
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Exhibit: N/A

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SCALE: 1" = 50'	TRIS: S3 T5S R16W	S4 T5S R16W	S9 T5S R16W	S10 T5S R16W	
COUNTY: Cass	TOWNSHIP: Silver Creek	CITY:	PROJECT ID: VB094327FO41302	CUSTOMER NUMBER: 94327	

Proposed Anchor Distance and Direction		Fiber Count W/ Segment Number		Man Hole		Typical Line Types
Proposed ACD Communications Poles		Fiber Termination Point		Storm Drain		
Proposed ACD NON Communications Pole		ACD Splice Case Six Way		ACD Regen Cabinet		
Colocation Poles (ACD Communication Equipment on Existing Poles)		ACD Splice Case Four Way		TRS Section Corner		
Joint Use Pole NON Transformer		ACD Splice Case Three Way		Fire Hydrant		
Joint Use Pole Transformer		ACD Splice Case Two Way		Location Address		
Foreign Pole Indicator		ACD Fiber Tap Capsule		Foliage		
Joint Use Pole NON Transformer- UNUSED		ACD RE-Box		Centerline Marker		
Joint Use Pole Transformer- UNUSED		Foreign Splice Case		Station Marker		
Street Light		Storage Loop w/ Footage and Segment		Use of Double Dead End		
Existing Traffic Signal Pole		ACD Buried Cable Marker				
Pole Number Marker		ACD Hand Hole 17" x 12"				
Proposed Riser		ACD Hand Hole 24" x 13"				
Make Ready Symbol w/ Attachment and Sag Heights		ACD Hand Hole 24" x 36"				
Down Ground		ACD Hand Hole 30" x 48"				
Bonding Clamp		Foreign Hand Hole				
Fiber Overlash		Proposed Bore Pit Location				
Overhead Guy Marker		Communications Tower				
Span Length and Segment ID						



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Our Match Lines can be found in the lower right hand corner and represents the neighboring page numbers.

WEST PAGE	NORTH PAGE	EAST PAGE
	PAGE	
	SOUTH PAGE	

FIBER DESIGN LINE COLOR CODE

	432
	288
	216
	144
	96
	72
	48
	36
	24
	12
	2

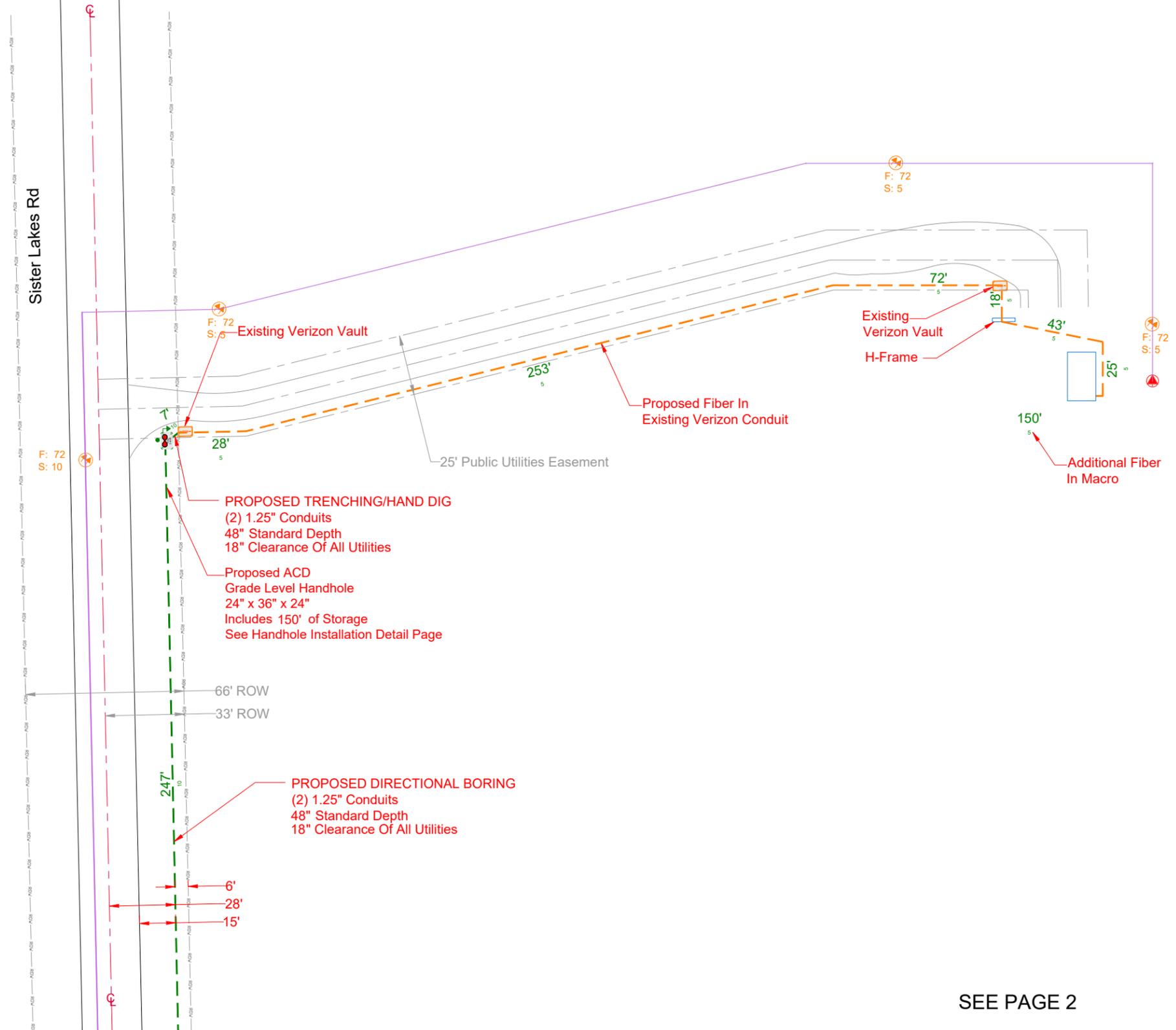
NOTE:
 WHEN IN QUESTION DEFAULT TO
 Fiber Count W/ Segment Number

Remarks:			PEACHTREE ID: 41302
SCALE: 1" = NTS	TRIS:		
COUNTY: Cass/Van Buren	TOWNSHIP: Silver Creek/Keller	CITY:	PROJECT ID: VB094327FO41302

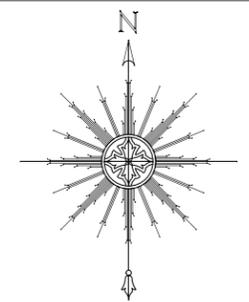
CUSTOMER NUMBER: 94327
SYMBOLS
LEGEND

Exhibit: N/A

Van Buren County
Keller Twp
S29 T4S R16W



SEE PAGE 2



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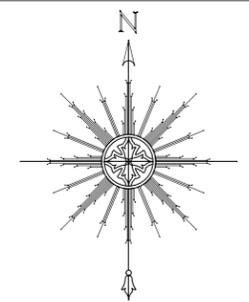
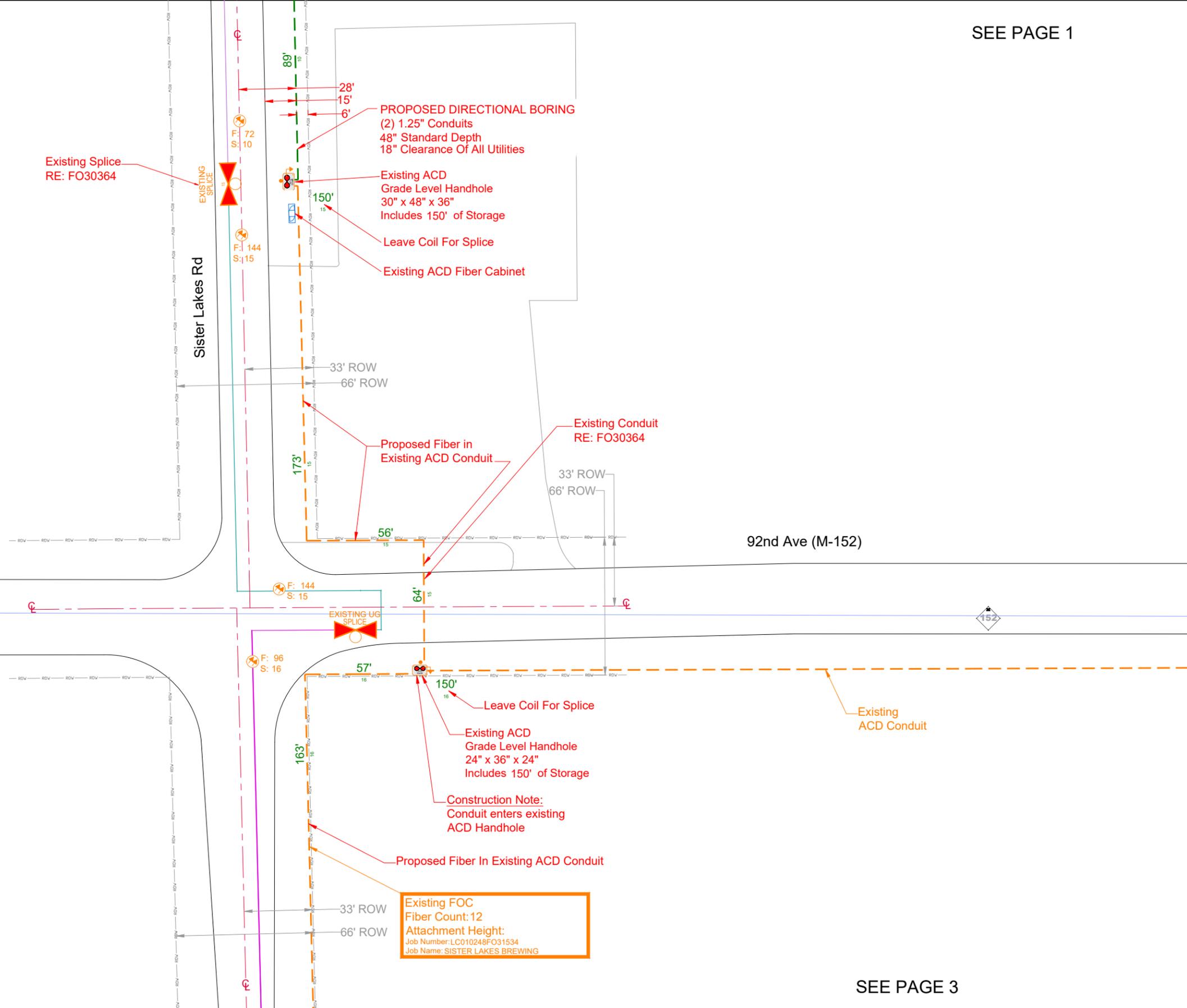
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5	Revised Fiber Design, revised aerial, added UG for SLC, OC Revisions	KN	04/12/24

Exhibit: N/A

Remarks:		PEACHTREE ID: 41302	
SCALE: 1" = 50'	TRS: S29 T4S R16W		
COUNTY: Van Buren	TOWNSHIP: Keller	CITY:	PROJECT ID: VB094327FO41302
			CUSTOMER NUMBER: 94327

Van Buren County
Keller Twp

SEE PAGE 1



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MISS DIG 1-800-482-7171	O.U.P.S 1-800-362-2764	INDIANA811 1-800-382-5544
----------------------------	---------------------------	------------------------------

Project Manager

T. Brown

Permitting

T. Brown

Transport Manager

G. Gould

Drawn By **Date**

DTW 1-30-24

As Built **Date**

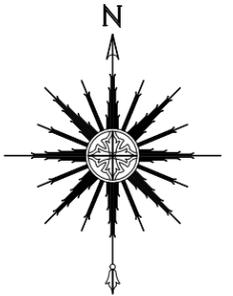
Revisions

REV #	DESCRIPTION	BY	DATE
1		DW	2/2/24
Added conduit to small cell site			
2		KN	2/15/24
Added Poles, Overlash Fiber Lines, and Fiber Designs			
3		KN	2/19/24
UG Revision			
4		KN	03/18/24
Resub			
5		KN	04/12/24
Revised Fiber Design, revised aerial, added UG for SLC, OC Revisions			

SEE PAGE 3

Exhibit: N/A

Remarks:			PEACHTREE ID: 41302
SCALE: 1" = 50'	TRS: S32 T4S R16W	S29 T4S R16W	
COUNTY: Van Buren	TOWNSHIP: Keller	CITY:	PROJECT ID: VB094327FO41302
			CUSTOMER NUMBER: 94327



Advanced Communications & Data
 517-999-9999
 1800 Grand River Ave
 Lansing MI 48906

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----------------------------	---------------------------	------------------------------

Project Manager

B. DIETRICH

Permitting

B. DIETRICH

Transport Manager

G. GOULD

Drawn By Date

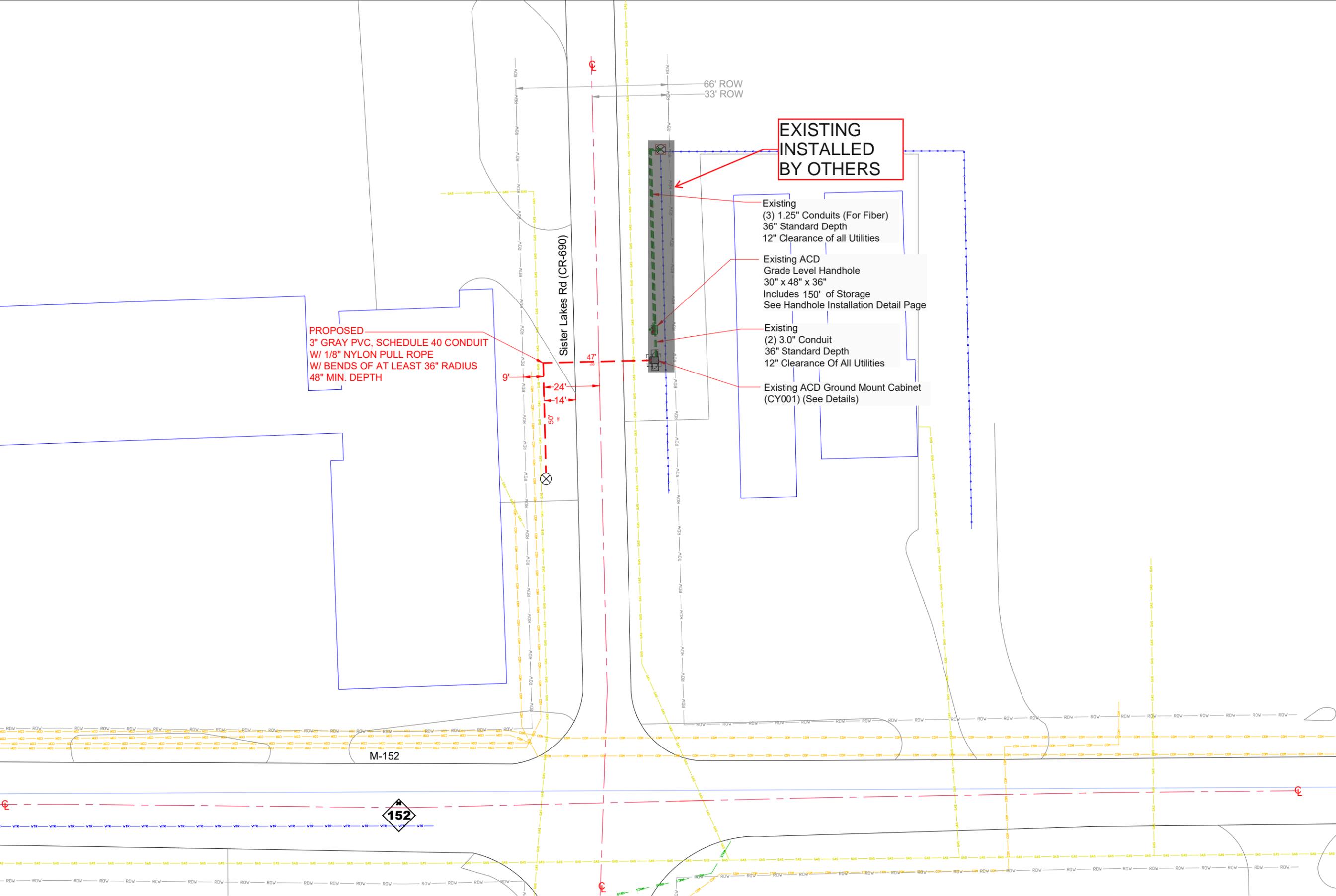
DTW 5-11-23

As Built Date

Revisions

REV #	DESCRIPTION	BY	DATE
1	Added Dim from CL, fixed a page label, changed from boring to trenching	DW	5-19-23
2	Fixed HH note to show 30x48	DW	8/18/23
3	Added Power Design	KN	3/7/24

Exhibit: N/A



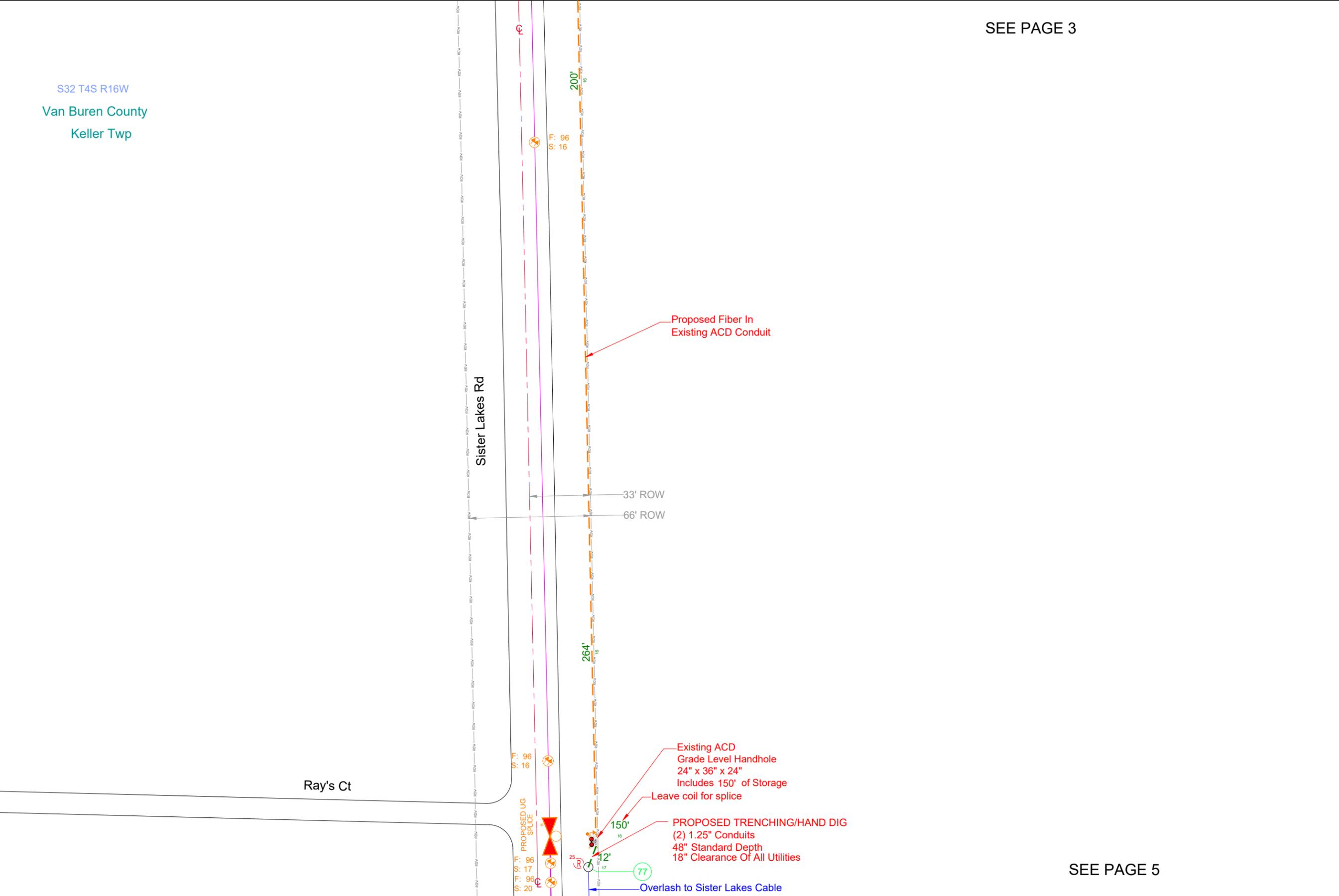
Remarks: PEACHTREE ID: 30364

SCALE: 1" = 40' TRS: S26 T4S R16W

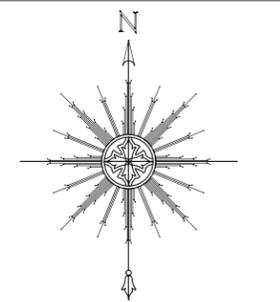
COUNTY: VAN BUREN TOWNSHIP: KEELER CITY: PROJECT ID: IF012238FO30364 CUSTOMER NUMBER: 12238

SEE PAGE 3

S32 T4S R16W
Van Buren County
Keller Twp



SEE PAGE 5



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Project Manager

T. Brown

Permitting

T. Brown

Transport Manager

G. Gould

Drawn By	Date
DTW	1-30-24

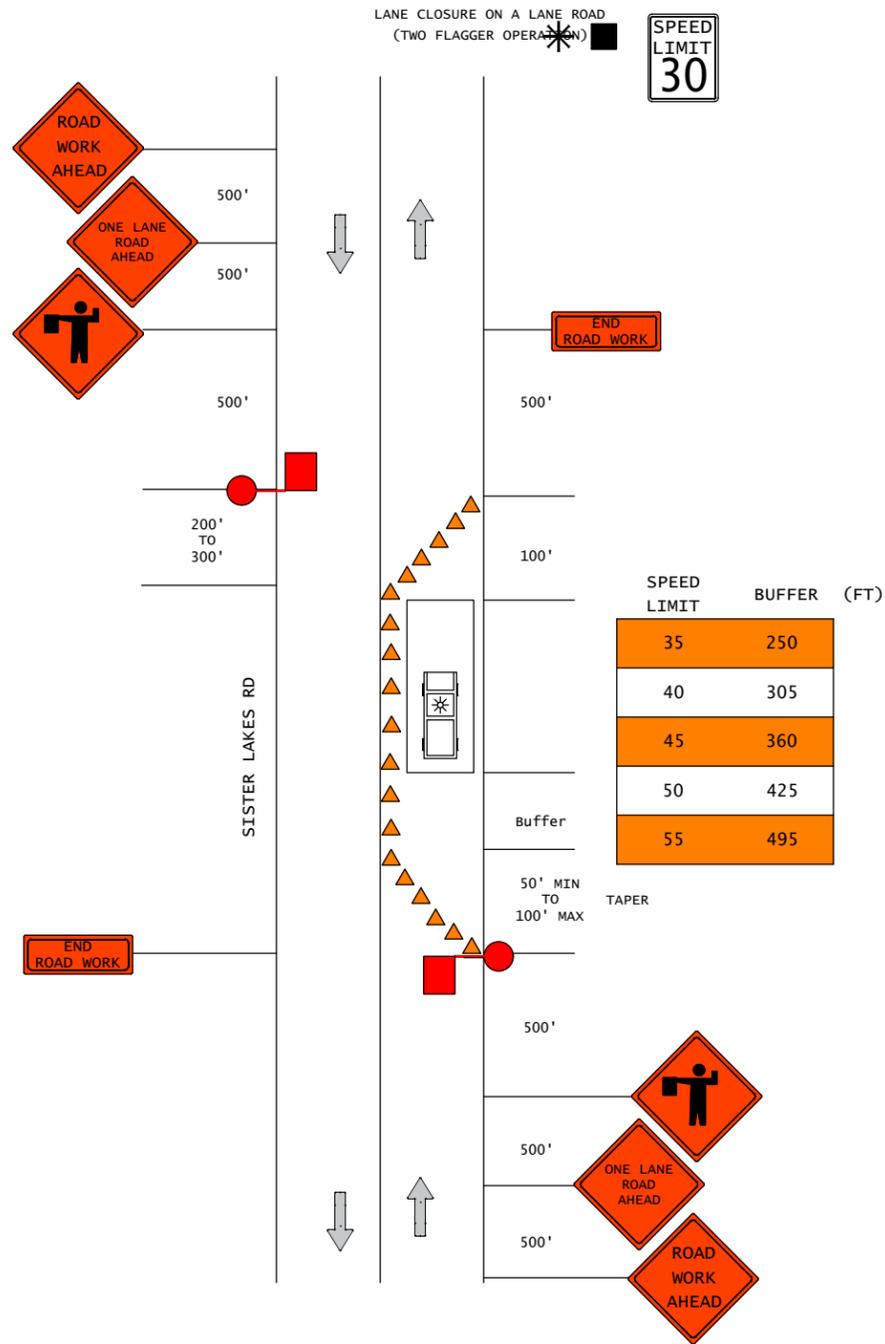
As Built	Date

Revisions

REV #	DESCRIPTION	BY	DATE
1	Added conduit to small cell site	DW	2/2/24
2	Added Poles, Overlash Fiber Lines, and Fiber Designs	KN	2/15/24
3	UG Revision	KN	2/19/24
4	Reroute	KN	03/18/24
5	Revised Fiber Design, revised aerial, added UG for SLC, OC Revisions	KN	04/12/24

Exhibit: N/A

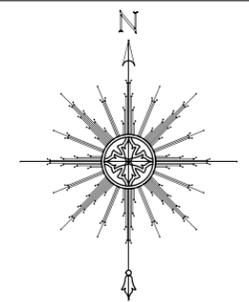
Remarks:			PEACHTREE ID: 41302
SCALE: 1" = 50'	TRS: S32 T4S R16W		
COUNTY: Van Buren	TOWNSHIP: Keller	CITY:	PROJECT ID: VB094327FO41302
			CUSTOMER NUMBER: 94327



- ▲▲▲ CHANNELIZING DEVICES
- ☀ LIGHTED ARROW PANEL
- ← TRAFFIC FLOW
- REFLECTS EXISTING SPEED LIMIT
- * ONLY REQUIRED FOR INTERMEDIATE-TERM STATIONARY AND LONG-TERM STATIONARY

Holt to Mason Connector\channeling.jpg

C:\Users\Ngo.khanh\Downloads\Holt to Mason Connector\distances.jpg



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Project Manager

T. Brown

Permitting

T. Brown

Transport Manager

G. Gould

Drawn By Date

DTW 1-30-24

As Built Date

Revisions

REV #	DESCRIPTION	BY	DATE
1	Added Traffic Control	DW	2/28/24

Exhibit: N/A

Remarks: PEACHTREE ID: 41302

SCALE: 1" = NTS TRS:

COUNTY: Van Buren\Cass TOWNSHIP: Keller\Silver Creek CITY: PROJECT ID: VB094327FO41302 CUSTOMER NUMBER: 94327

TRAFFIC CONTROL