Advanced Communications & Data

KEPS Technologies, Inc. d/b/a ACD.net

FIBER OPTIC CABLE ROUTE

Project Number

LC017855FO38399

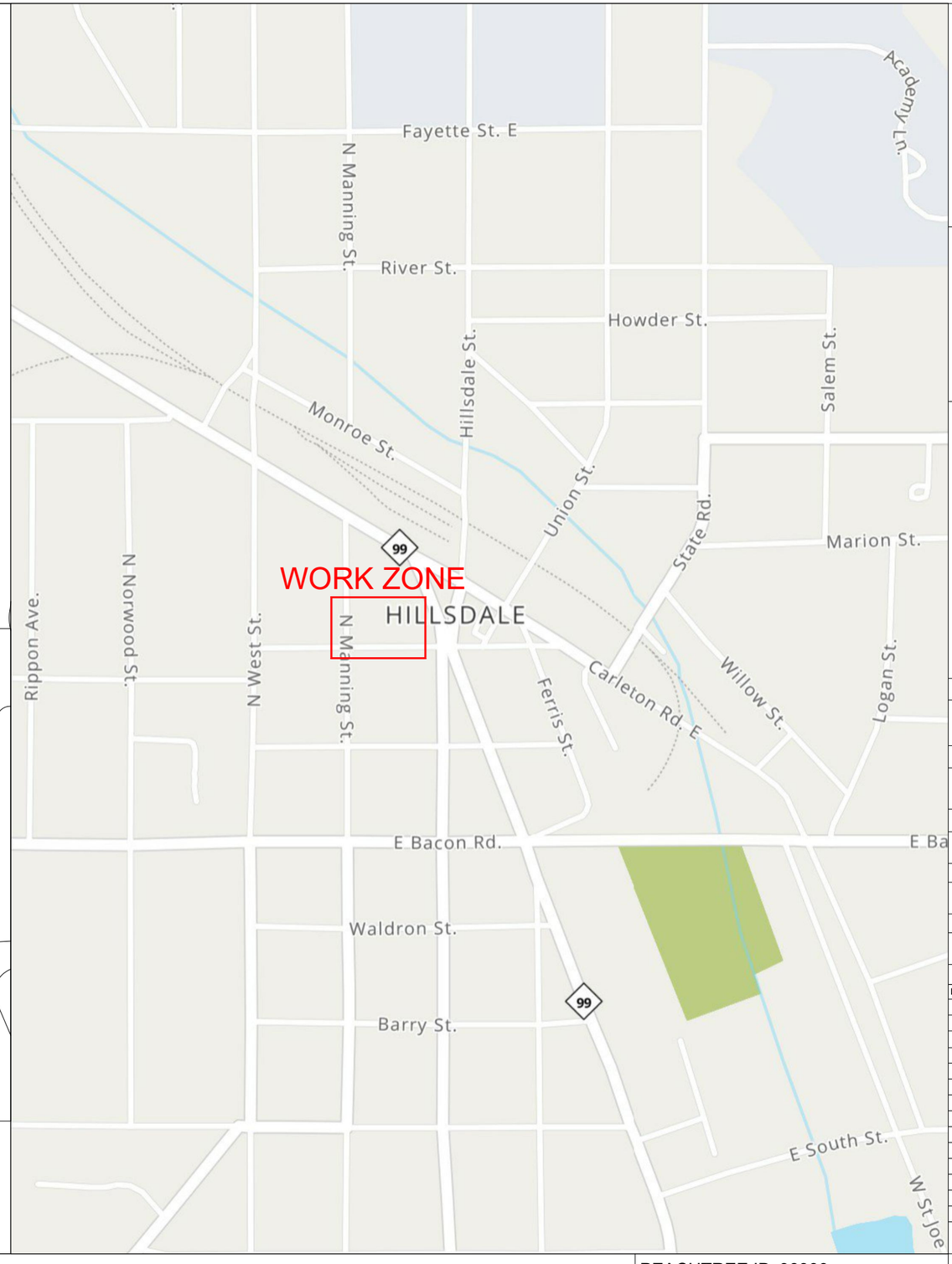
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MISS DIG	O.U.P.S	INDIANA811
1-800-482-7171	1-800-362-2764	1-800-382-5544

Project Manager

C. SUNDEN

Permitting

C. SUNDEN

Transport Manager

G. GOULD

Drawn By	Date
J. ANDERSON	02/01/23

As Built	Date

Revisions

REV #	DESCRIPTION	BY	DATE
1	ROUTE REVISIONS	JA	02/08/23

Exhibit: N/A

Remarks:

PEACHTREE ID: 38399

SCALE: 1" = NTS

TRS:

GRID KEY

COUNTY: HILLSDALE

TOWNSHIP:

CITY: HILLSDALE

PROJECT ID: LC017855FO38399

CUSTOMER NUMBER: 017855

CONSTRUCTION NOTES

1. CONTRACTOR SHALL EMAIL SUNDEN.COLIN@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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1	ROUTE REVISIONS	JA	02/08/23

Exhibit: N/A

Remarks:				PEACHTREE ID: 38399	
SCALE: 1" = NTS		TRS:			NOTES
COUNTY: HILLSDALE	TOWNSHIP:	CITY: HILLSDALE	PROJECT ID: LC017855FO38399	CUSTOMER NUMBER: 017855	

Proposed Anchor Distance and Direction

Reg 12' S

Sidewalk 12' S

Proposed ACD Communications Poles

ACD WOOD

ACD METAL

Proposed ACD NON Communications Pole

Colocation Poles (ACD Communication Equipment on Existing Poles)

Joint Use Pole NON Transformer

Joint Use Pole Transformer

Foreign Pole Indicator

FP

Joint Use Pole NON Transformer- UNUSED

Joint Use Pole Transformer- UNUSED

Street Light

Existing Traffic Signal Pole

Pole Number Marker

1

Proposed Riser

R 25

Make Ready Symbol w/ Attachment and Sag Heights

MR

Attach At:

Midspan At:

Down Ground

Bonding Clamp

Fiber Overlash

Overhead Guy Marker

Span Length and Segment ID

100'

1

Fiber Count W/ Segment Number

F:

S:

Fiber Termination Point

ACD Splice Case Six Way

ACD Splice Case Four Way

ACD Splice Case Three Way

ACD Splice Case Two Way

ACD Fiber Tap Capsule

GIGZONE

ACD RE-Box

RE BOX SPLITTER

Foreign Splice Case

OWNER

Storage Loop w/ Footage and Segment

PROPOSED STORAGE: 150'

1

ACD Buried Cable Marker

ACD Hand Hole 17" x 12"

17x12

ACD Hand Hole 24" x 13"

24x13

ACD Hand Hole 24" x 36"

ACD 24x36

ACD Hand Hole 30" x 48"

ACD 30x48

Foreign Hand Hole

OWNER

Proposed Bore Pit Location

Bore Pit (size)

Communications Tower

BLDG

Man Hole

MH

Storm Drain

STM

ACD Regen Cabinet

TRS Section Corner

Fire Hydrant

FIRE HYDRANT

Location Address

Address

Foliage

Centerline Marker

Station Marker

00+00

01+00

Use of Double Dead End

Typical Line Types

Rail Road Tracks

Proposed Underground Fiber

Existing Underground Fiber

Right Of Way Boundary — ROW

Side Walk and Driveway

Fiber Design Line

Aerial Fiber

Center Line

Water Main — WTR

Forced Water Main

Storm Sewer — STRM

Sanitary Sewer — SWR

Gas Main — GAS

Foreign UG Fiber — COM

AT&T UG Fiber — ATT

UG Electric — ELC

Oil Line — OIL

Fence

TRS Boundary

Civil Boundary

Property Boundary

Water Boundary

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	

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LEGEND

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 then 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 place 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

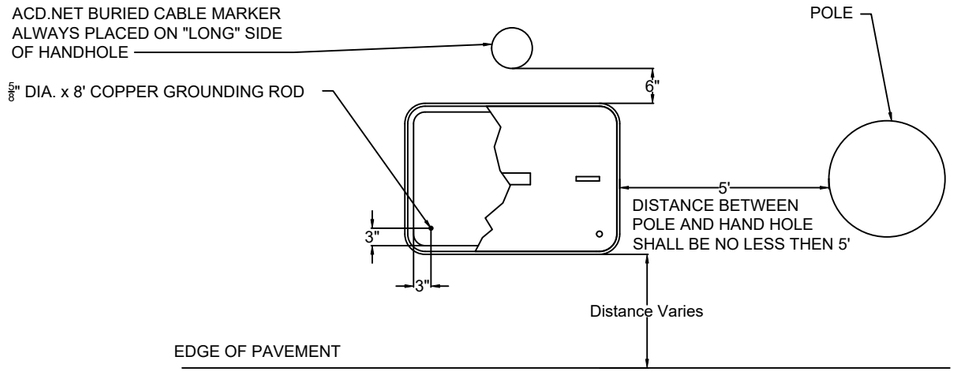
2. All sodded areas that may disturbed during construction are to be restored with 3" quality top soil, seed and mulch

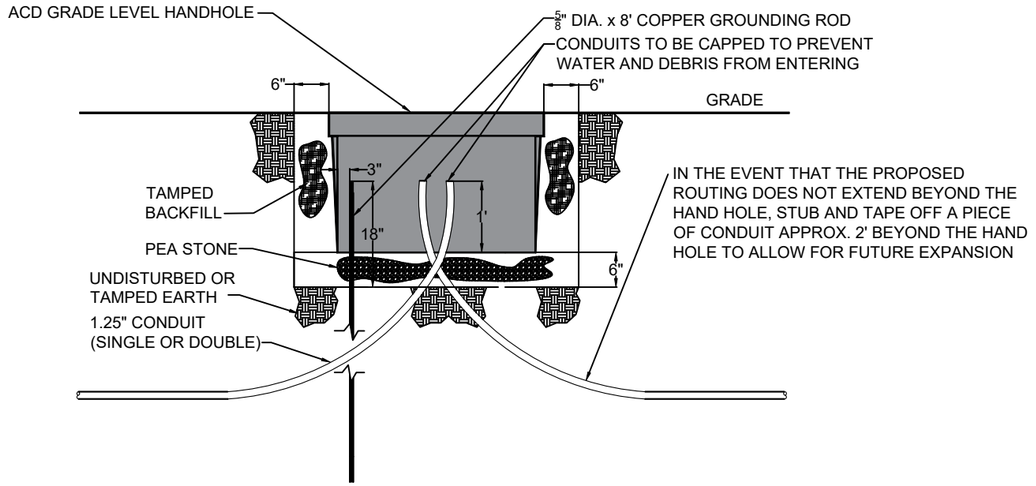
3. All Concrete/Sidewalk areas that may be disturbed are to be restored to a like or better condition.

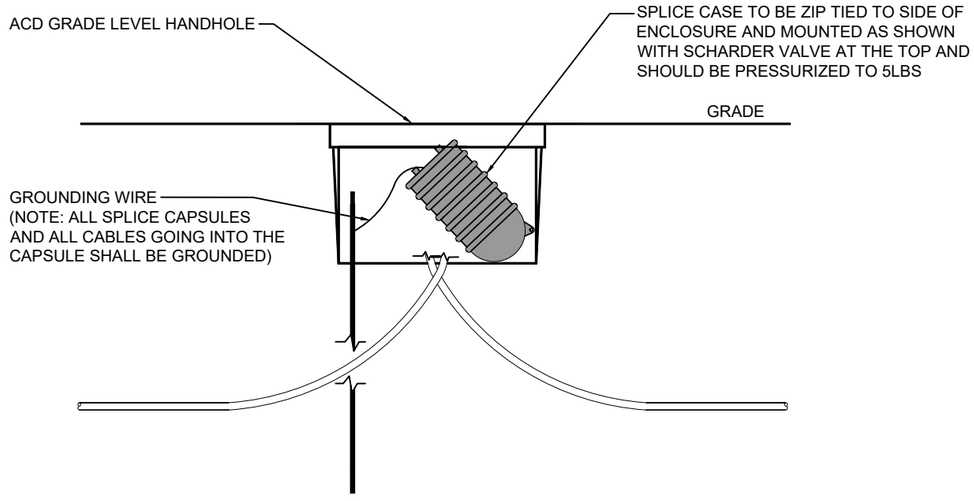
Underground Coupler Detail



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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HAND HOLE
INSTALLATION
DETAILS

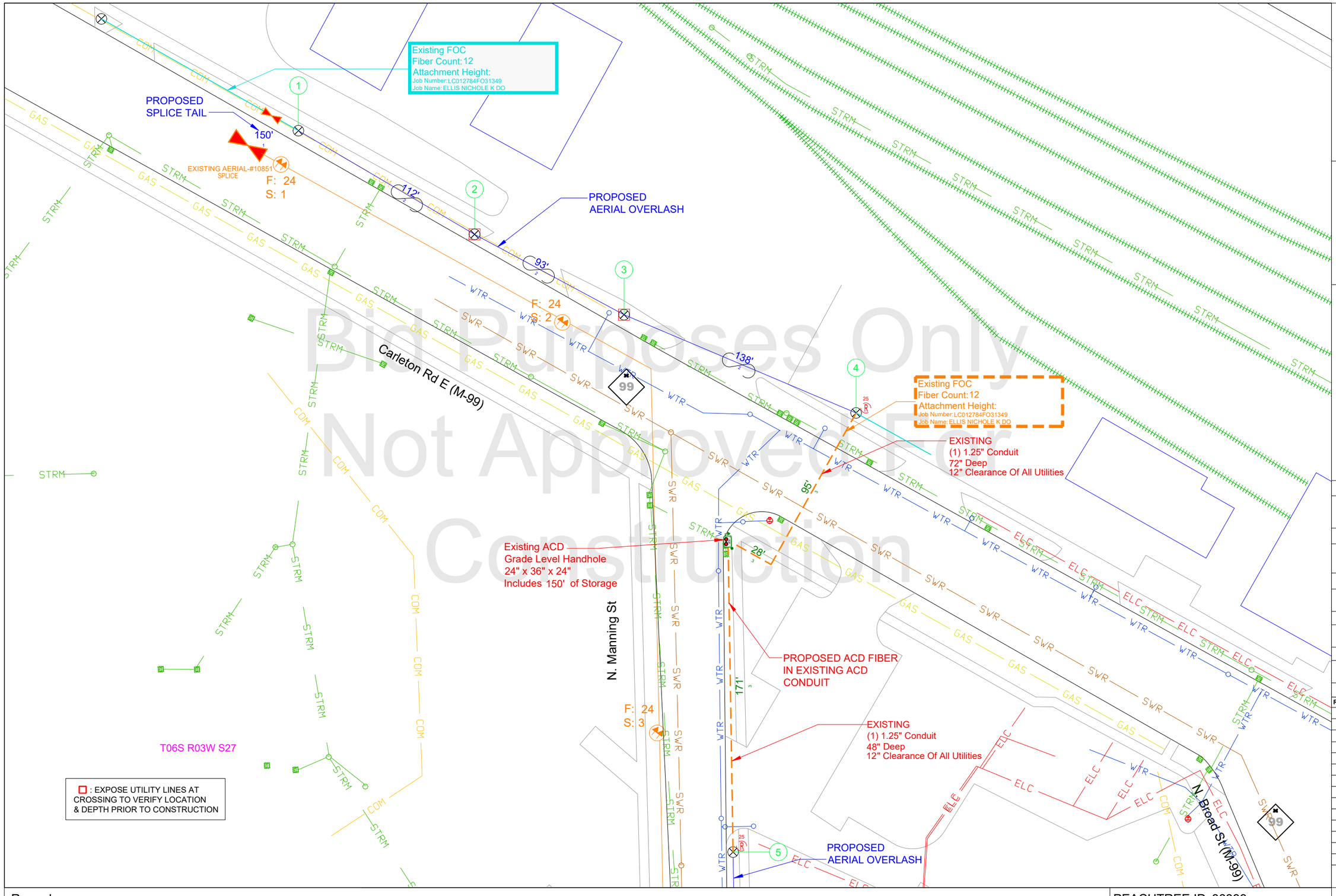
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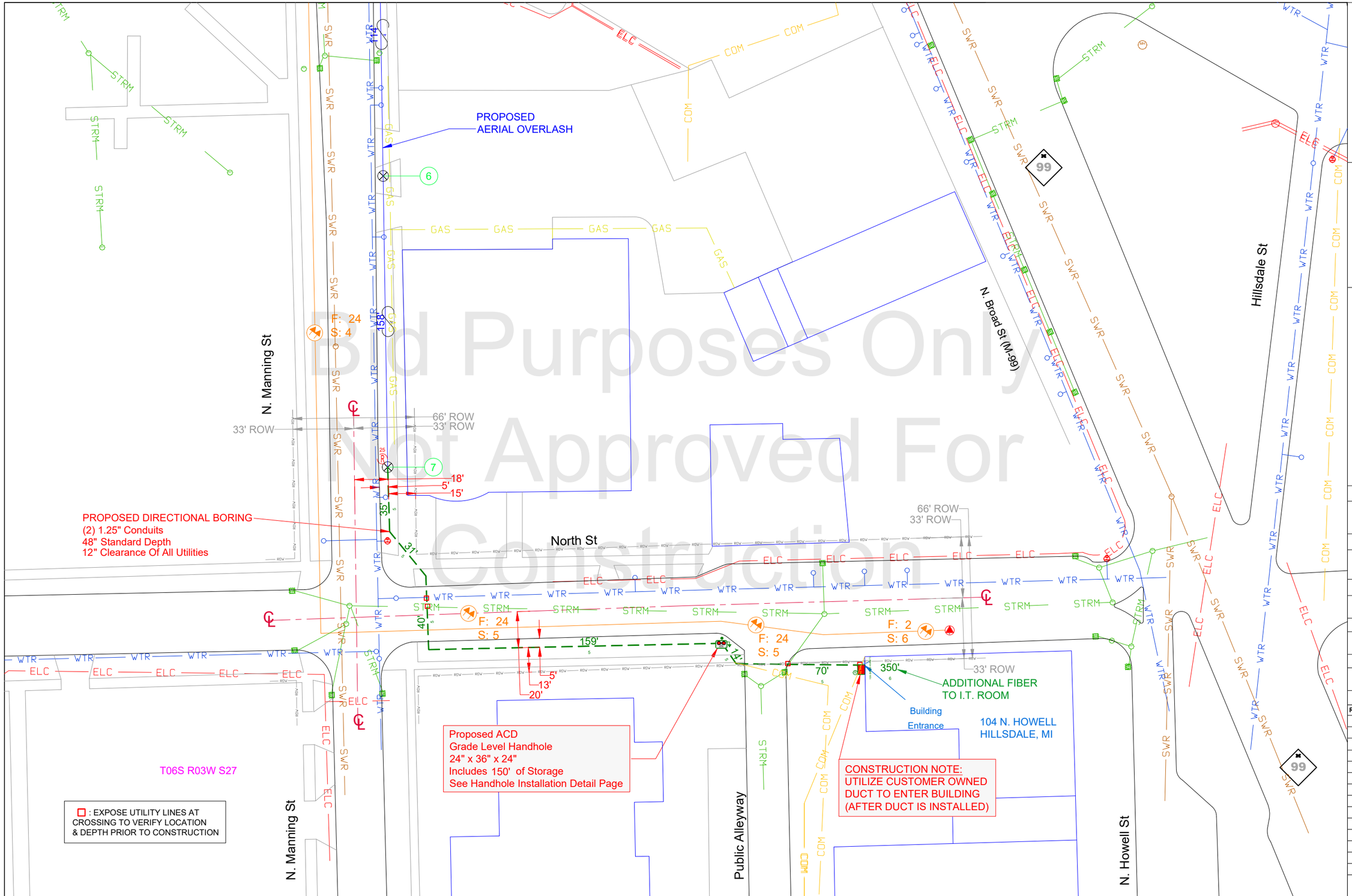
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SCALE: 1" = 50'		TRS: 706S R03W S27		PAGE 1
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