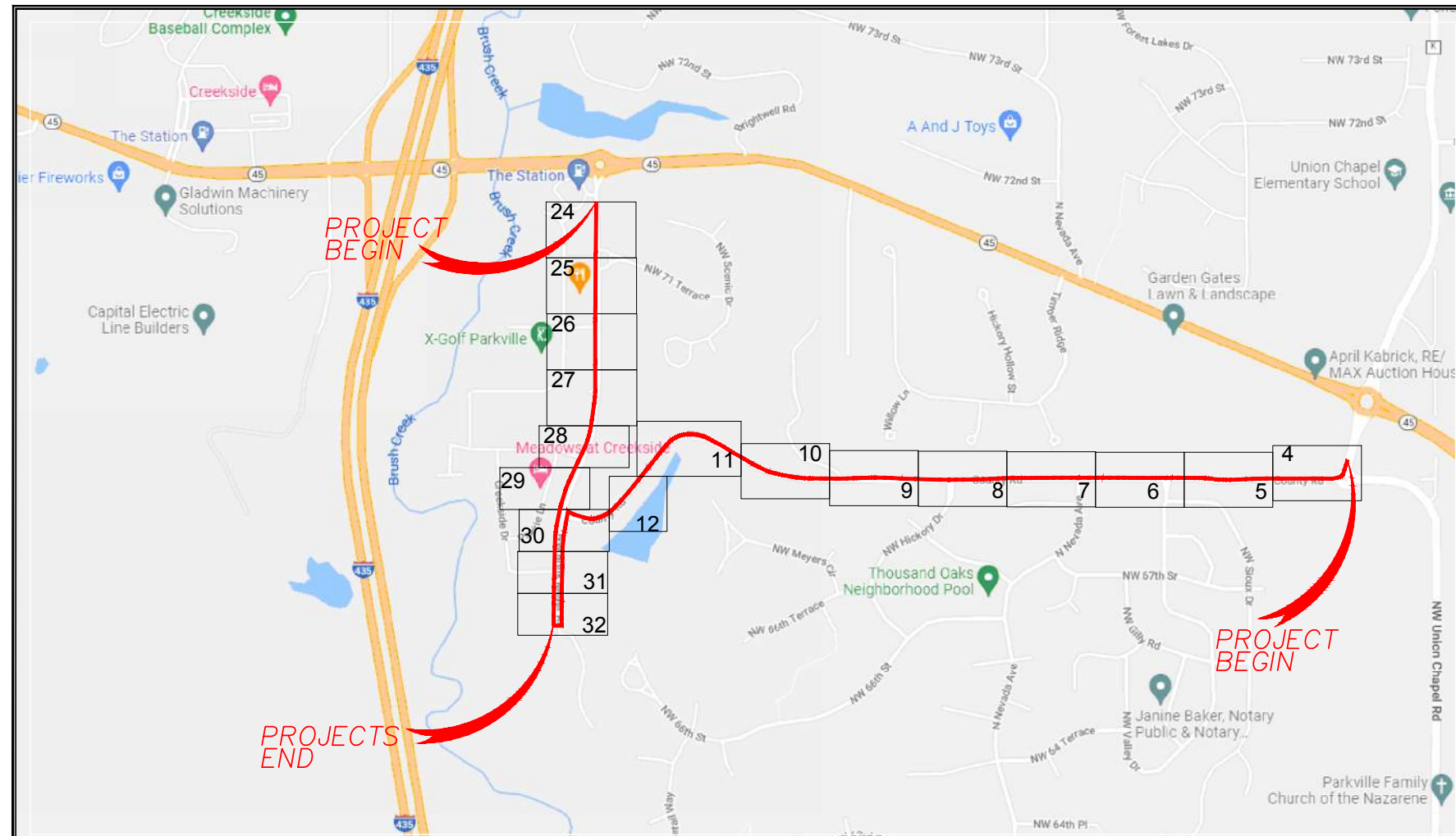


PROJECT NAME: NETWORK EXPANSION COUNTY VOLUME 1

<u>WORK PLAN INDEX</u>	
SHEET	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES/LEGEND
4-12, 24-32	DESIGN PLAN SHEETS
22	TYPICAL DETAILS
23	FINAL QUANTITIES



Vicinity Map



Know what's below.
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NOT TO SCALE

drawn by: _____		SPM			
checked by: _____		DAH			
approved by: _____		GRG			
project no.: _____					
drawing no.: _____					
date: 9/21/2023					
COVER SHEET					
SUPPORT SERVICES NORTH RING NETWORK EXTENSION					
				PARKVILLE, MO	
				2023	
REV. NO.		DATE		REVISIONS DESCRIPTION	

SHEET
1 OF 35

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CLARENCE R. GASTINEAU
MO. NO. PE-2008025192

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LEGEND—KEY

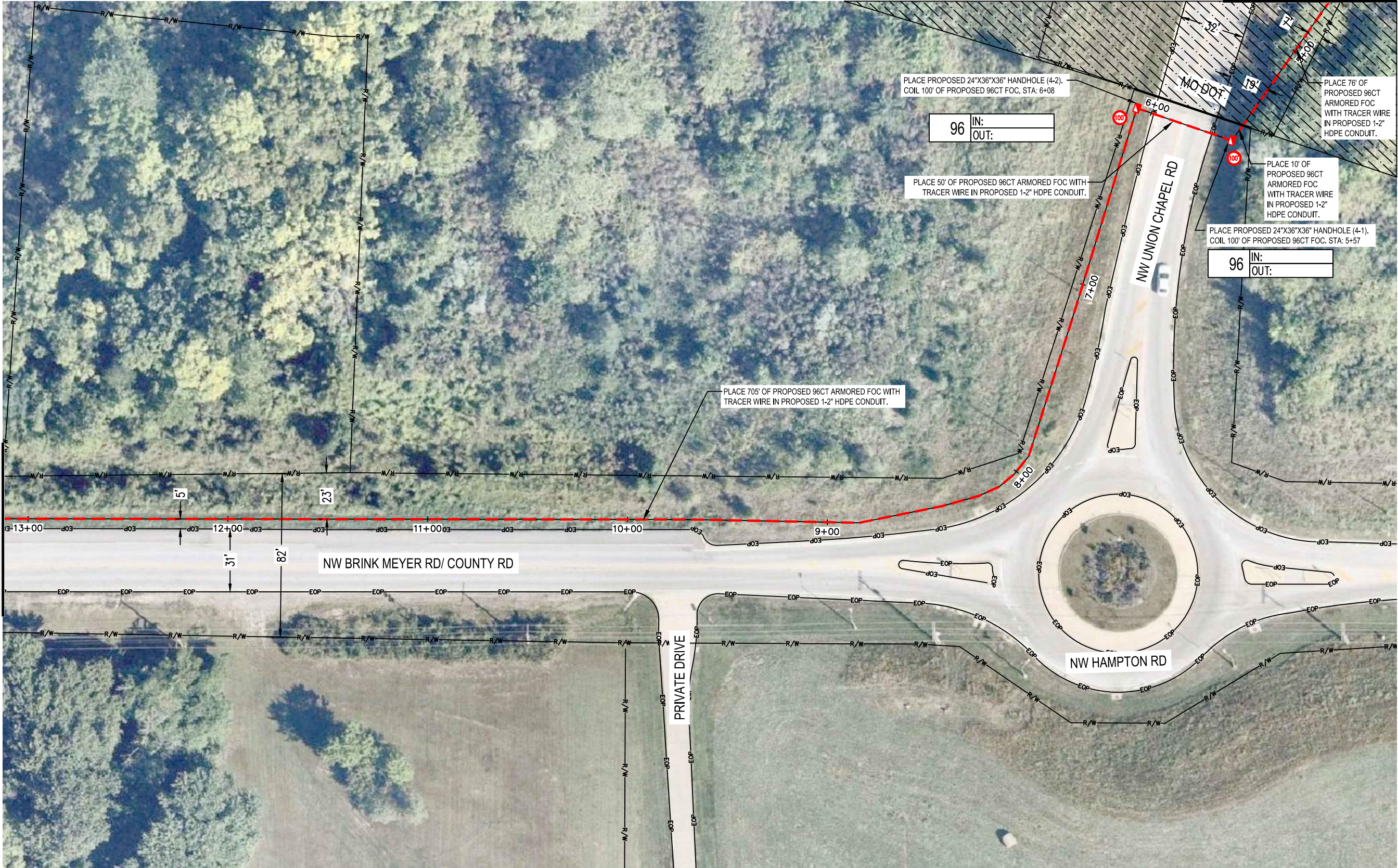
	UTILITY POLE		GAS
	UTILITY MANHOLE		WATER
	UTILITY HANDHOLE		TELEPHONE
	TELEPHONE PED – CROSS BOX		ELECTRIC
	EXISTING MANHOLE		SANITARY SEWER (SEW)
	EXISTING HANDHOLE		STORM SEWER
	EXISTING COIL		FENCE
	EXISTING AERIAL COIL		CABLE TV
	EXISTING DOWN GUY		STEAM
	EXISTING SPLICE POINT		OIL
	TREE		UNKNOWN UTILITY
	PROPOSED MANHOLE		RIGHT OF WAY
	PROPOSED HANDHOLE		EDGE OF PAVEMENT
	PROPOSED COIL		UTILITY EASEMENT
	PROPOSED AERIAL COIL		MODOT UTILITY CORRIDOR
	PROPOSED DOWN GUY		EXISTING CONDUIT
	PROPOSED SPLICE POINT		EXISTING AERIAL FIBER
	PROPOSED FIBER DISTRIBUTION PANEL		EXISTING STRAND
	PROPOSED BORE PIT		PROPOSED CONDUIT
	PROPOSED PULL BOX		PROPOSED AERIAL FIBER
R/L	PROPOSED RUNNING LINE		PROPOSED STRAND
F/L	FLOW LINE		
FOC	FIBER OPTIC CABLE		
EOP	EDGE OF PAVEMENT		
	CUT & RESTORE CONC./ASPH.		
	INLET		
	INLET GRATE		

1. CONTRACTOR MUST OBTAIN LOCATES PRIOR TO ANY TYPE OF EXCAVATION.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY REQUIRED PERMITS PERTAINING TO ALL ASPECTS OF THE PROJECT AND MUST HAVE THE APPROPRIATE PERMITS AT THE JOB SITE.
3. ALL CABLE WILL BE PLACED AT STANDARD MINIMUM DEPTH OF 36" IN UNPAVED AREAS AND 48" MINIMUM BELOW STREETS AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE PLANS.
4. ANY LANDSCAPING WILL BE REPLACED TO EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO WORK.
5. PROJECT SITE WILL BE PROPERLY SECURED PRIOR TO THE END OF EACH DAY.
6. ALL WORK IS TO BE IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION IN THE WORK ZONE.
7. CONTRACTORS ARE ADVISED TO CONTACT PHSD FOR ANY ADDITIONAL INFORMATION OR CLARIFICATION CONCERNING SCOPE OF WORK OR THE REQUIREMENTS NECESSARY FOR PROJECT COMPLETION.
8. ANY FIELD ADJUSTMENTS TO THE PROPOSED PLAN MUST BE APPROVED BY AN APPROPRIATE PHSD REPRESENTATIVE.
9. BEFORE CONSTRUCTION BEGINS, CONTRACTOR SHALL TAKE THE APPROPRIATE PRECAUTIONS TO AVOID ANY POTENTIAL OBSTRUCTIONS PRIOR TO PROCEEDING WITH WORK.
10. OLSSON ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL) OR RIGHT-OF-WAY LOCATION. THE EXISTING UTILITIES AND RIGHT-OF-WAY SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE. IT IS HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES AND RIGHT-OF-WAY PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
11. MODOT: OLSSON ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS (HORIZONTAL OR VERTICAL) OR RIGHT-OF-WAY PLACEMENT. THE EXISTING UTILITIES AND RIGHT-OF-WAY SHOWN ON THESE PLANS HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE. IT IS HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES AND RIGHT-OF-WAY PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. MODOT REQUIRES UTILITIES TO BE PLACED IN THE LAST 6' OF THEIR RIGHT-OF-WAY IN THE "UTILITY COORIDOR" IN HDPE CONDUIT RUNNING PARALLEL AT A 30" MINIMUM DEPTH AND PERPENDICULAR CROSSINGS AT A 72" MINIMUM DEPTH. PERPENDICULAR CROSSINGS MAY BE PLACED AT A 48" MINIMUM DEPTH IF PLACED IN STEEL CONDUIT.

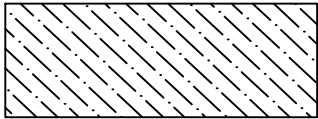


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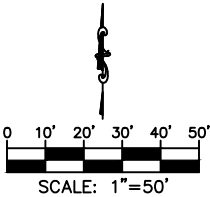
MATCH TO SHEET 5



SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	765
2.	SUPPLY & INSTALL TRACER WIRE	LF	765
3.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	2
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	965



HATCH AREA IS PART OF UG MODOT PERMIT #1



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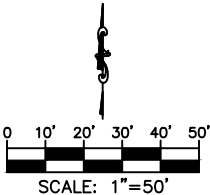
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PROJECT SHEET	REV. NO.	DATE		
		REVISIONS DESCRIPTION		
SUPPORT SERVICES NORTH RING PARK HILL SCHOOL DISTRICT		2023		
PARKVILLE, MO				
drawn by: CAS		checked by: JMC		
approved by: ENG		project no.:		
drawing no.:				
SHEET		4 of 35		

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XREFS: Alignment Sheets
USER: jflickner
D15-1955_MO_GISMS
D15-1955_NetExt_ROW
N-Route Alignment
S-Route Alignment



SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	699
2.	SUPPLY & INSTALL TRACER WIRE	LF	699
3.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	699



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

PARKVILLE, MO

2023

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drawn by: SPM

checked by: JMC

approved by: ENG

project no.:

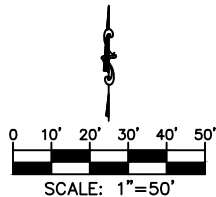
drawing no.:

SHEET

5 of 35

USER: jflickner N-
gnment

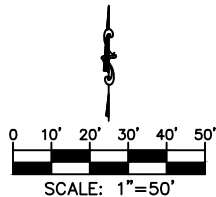
SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	697
2.	SUPPLY & INSTALL TRACER WIRE	LF	697
3.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	1
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	797

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USER: jffickner
D15-1955_MO_GISMS D15-1955_NetExt_ROW
S-Route Alignment N-Route Alignment



SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	697
2.	SUPPLY & INSTALL TRACER WIRE	LF	697
3.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	1
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	797



MATCH TO SHEET 6

drawn by: _____ SPM checked by: _____ JMC approved by: _____ ENG project no.: _____ drawing no.: _____	PROJECT SHEET		REV. NO.	DATE	REVISIONS DESCRIPTION
	SUPPORT SERVICES NORTH RING PARK HILL SCHOOL DISTRICT				
	PARKVILLE, MO	2023			REVISIONS
SHEET					
7 of 35					

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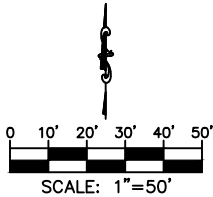
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MATCH TO SHEET 10

MATCH TO SHEET 8

SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	698
2.	SUPPLY & INSTALL TRACER WIRE	LF	698
3.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	698



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

PARKVILLE, MO

REV. NO.

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DATE

2023

drawn by: SPM

checked by: JMC

approved by: ENG

project no.:

drawing no.:

SHEET

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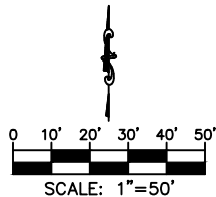
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USER: jffickner
D15-1955_MO_GISMS D15-1955_NetExt_ROW
S-Route Alignment N-Route Alignment



SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	815
2.	SUPPLY & INSTALL TRACER WIRE	LF	815
3.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	1
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	915

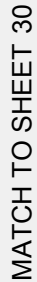


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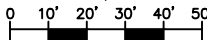
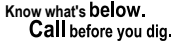
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	PROJECT SHEET	REV. NO.	DATE	REVISIONS DESCRIPTION		
	SUPPORT SERVICES NORTH RING PARK HILL SCHOOL DISTRICT			REVISIONS		
	PARKVILLE, MO	2023				
drawn by: _____ SPML						
checked by: _____ JMC						
approved by: _____ ENG						
project no.: _____						
drawing no.: _____						
SHEET						
11 of 35						

USER: jflickner N-
ignment



SHEET QUANTITIES

MATCH TO SHEET 11



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

PARKVILLE MO

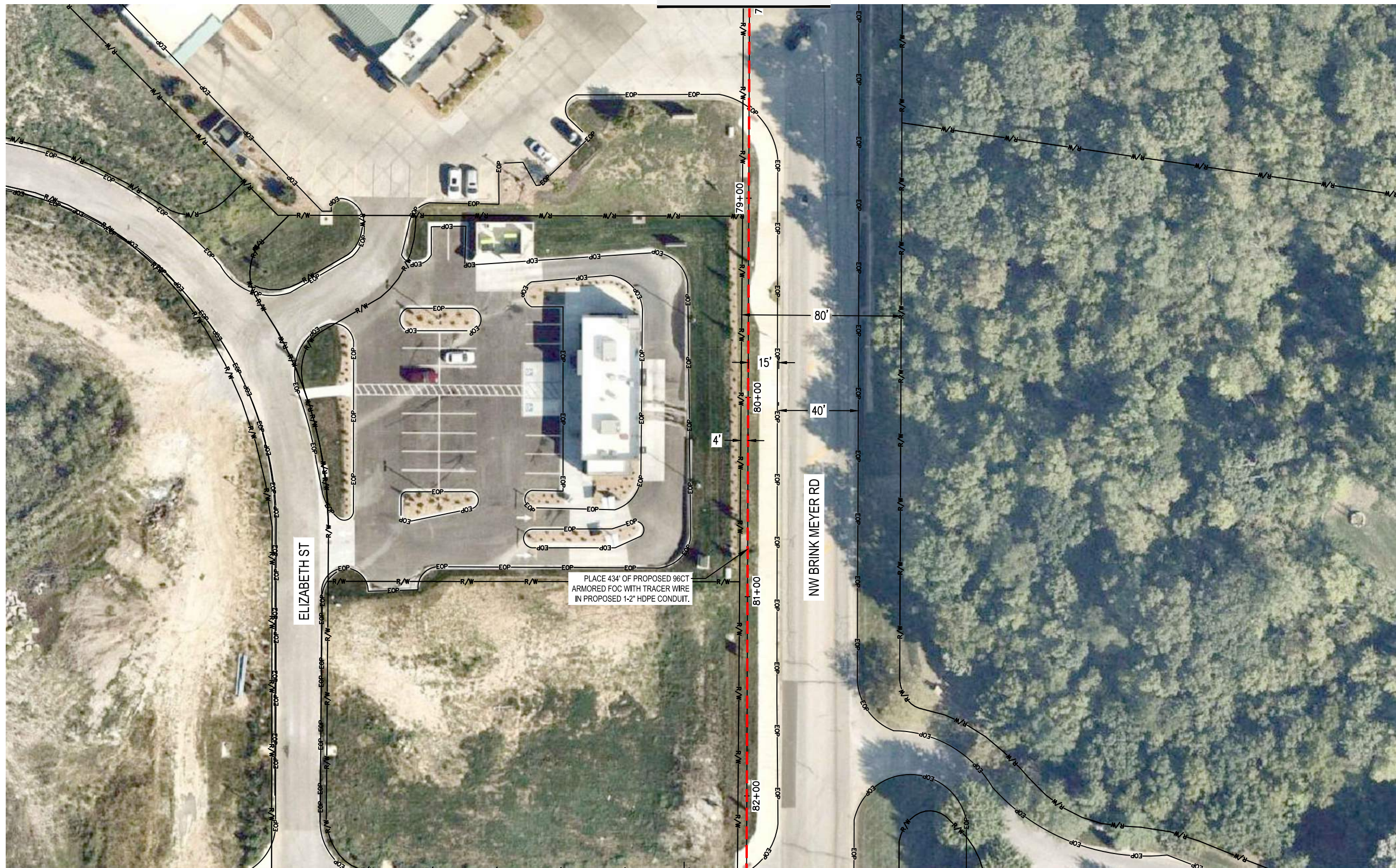
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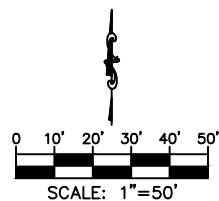
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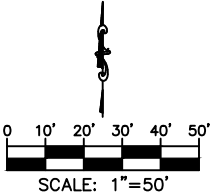
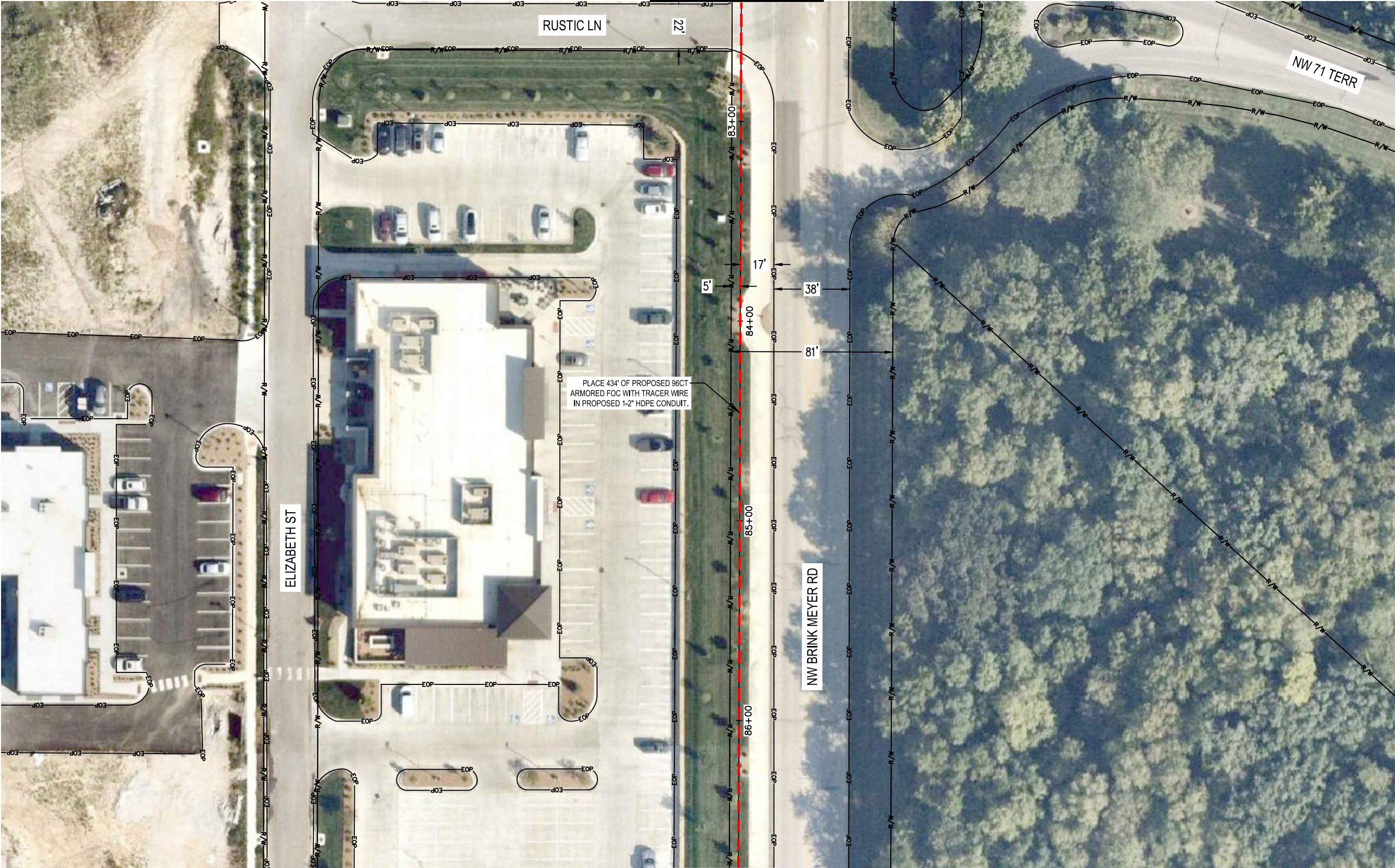
SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	434
2.	SUPPLY & INSTALL TRACER WIRE	LF	434
3.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	434



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SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	434
2.	SUPPLY & INSTALL TRACER WIRE	LF	434
3.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	434



PROJECT SHEET		REV.	DATE	REVISIONS DESCRIPTION
		NO.		
SUPPORT SERVICES NORTH RING PARK HILL SCHOOL DISTRICT				
PARKVILLE, MO		2023		REVISIONS

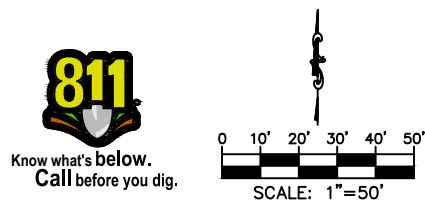
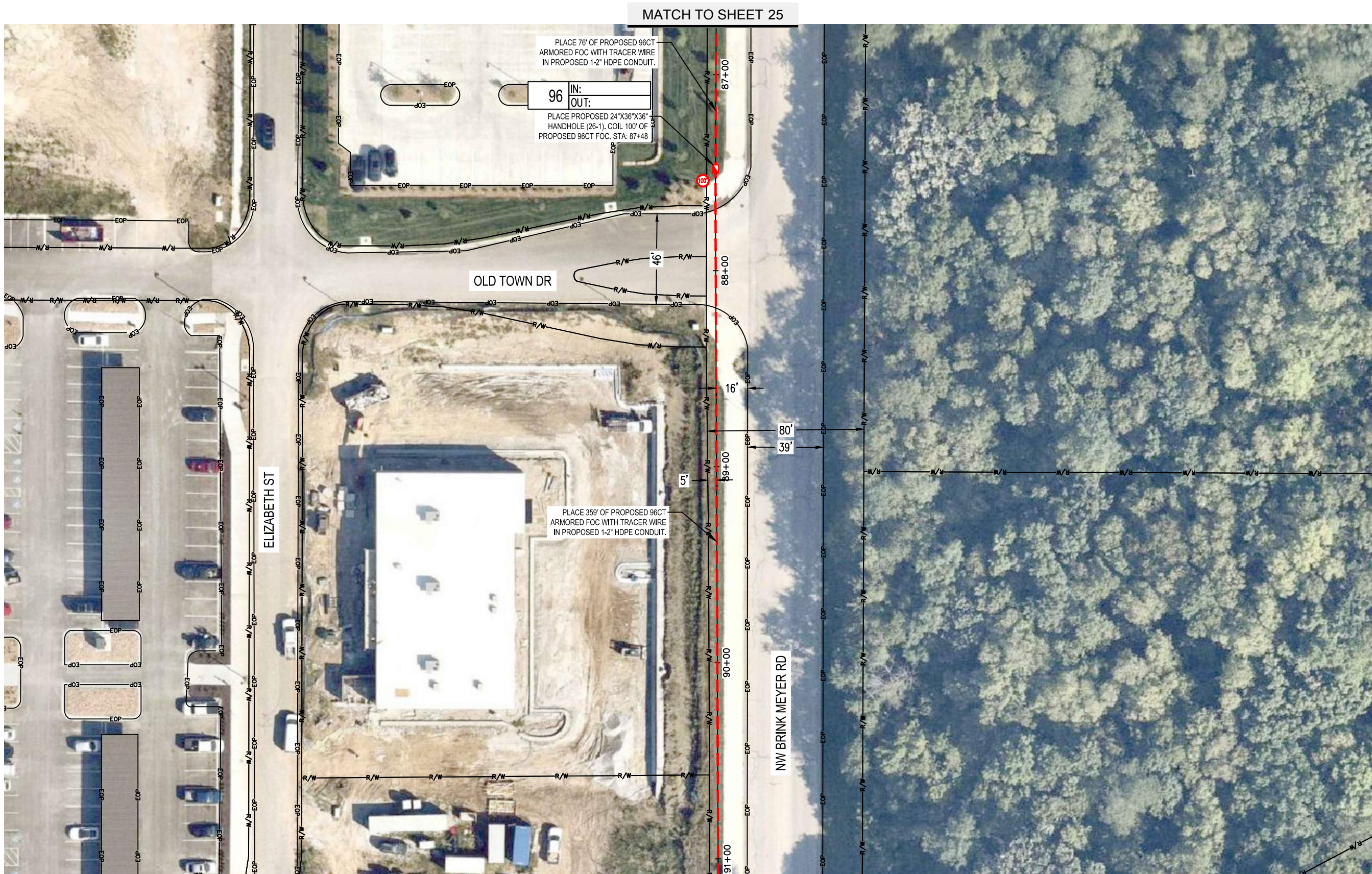
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SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	435
2.	SUPPLY & INSTALL TRACER WIRE	LF	435
3.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	1
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	535

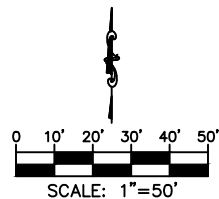
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ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	436
2.	SUPPLY & INSTALL TRACER WIRE	LF	436
3.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	436

MATCH TO SHEET 28

MATCH TO SHEET 26



PROJECT SHEET	REV. NO.	DATE	REVISIONS DESCRIPTION
SUPPORT SERVICES NORTH RING PARK HILL SCHOOL DISTRICT			
PARKVILLE, MO	2023	REVISIONS	
drawn by: _____ CAS checked by: _____ JMC approved by: _____ ENG project no.: _____ drawing no.: _____			
SHEET 27 of 35			

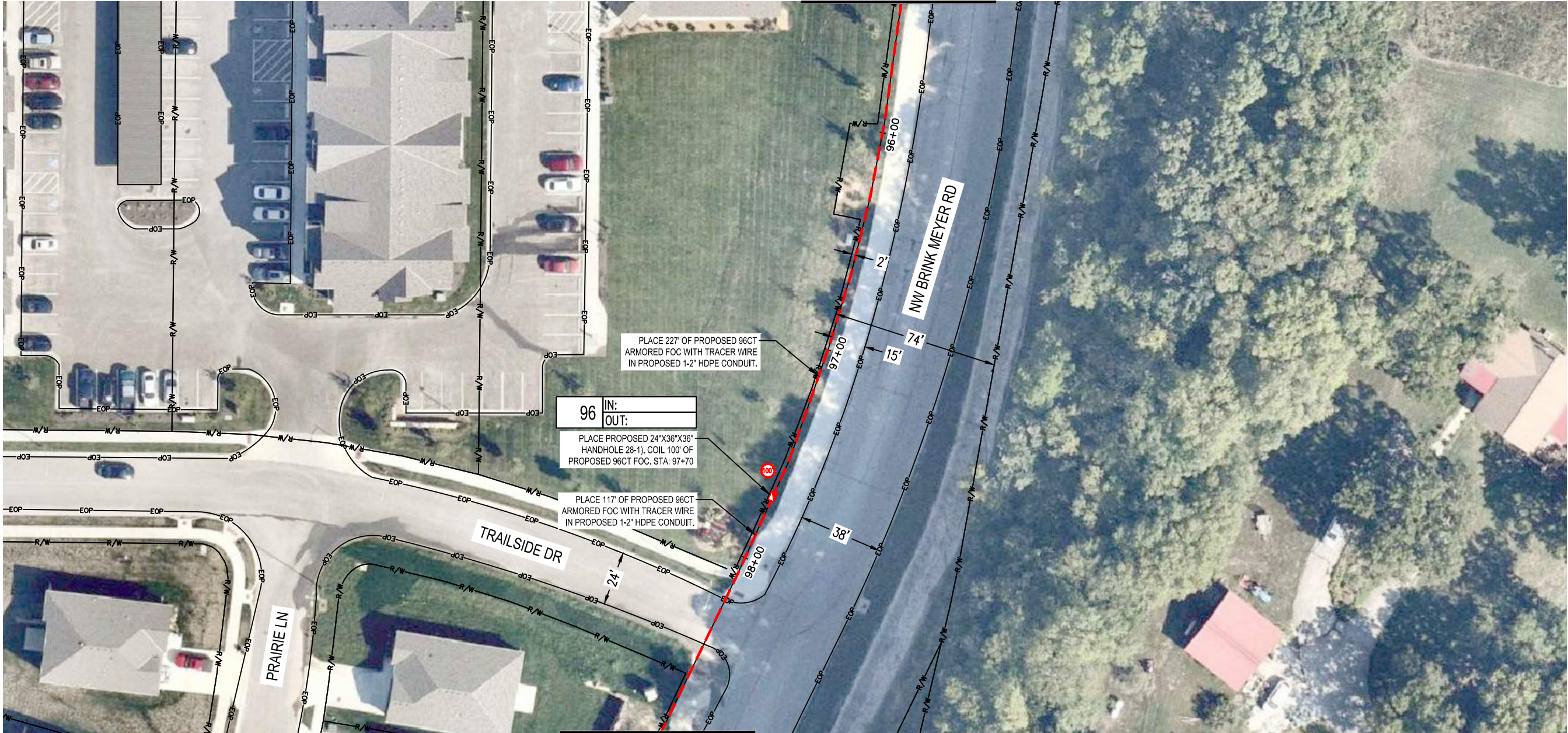
PROJECT SHEET

SHEET
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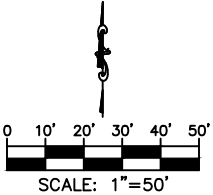
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SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	344
2.	SUPPLY & INSTALL TRACER WIRE	LF	344
3.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	1
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	444



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

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2023

PARKVILLE, MO

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION

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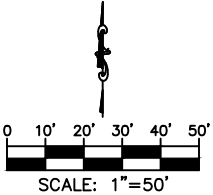
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checked by: JMC
approved by: ENG
project no.:
drawing no.:
SHEET 28 of 35



SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	350
2.	SUPPLY & INSTALL TRACER WIRE	LF	350
3.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	350



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

PARKVILLE, MO

2023

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REV. NO.

DATE

REVISIONS DESCRIPTION

REVISIONS

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project no.:

drawing no.:

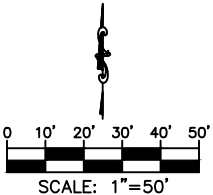
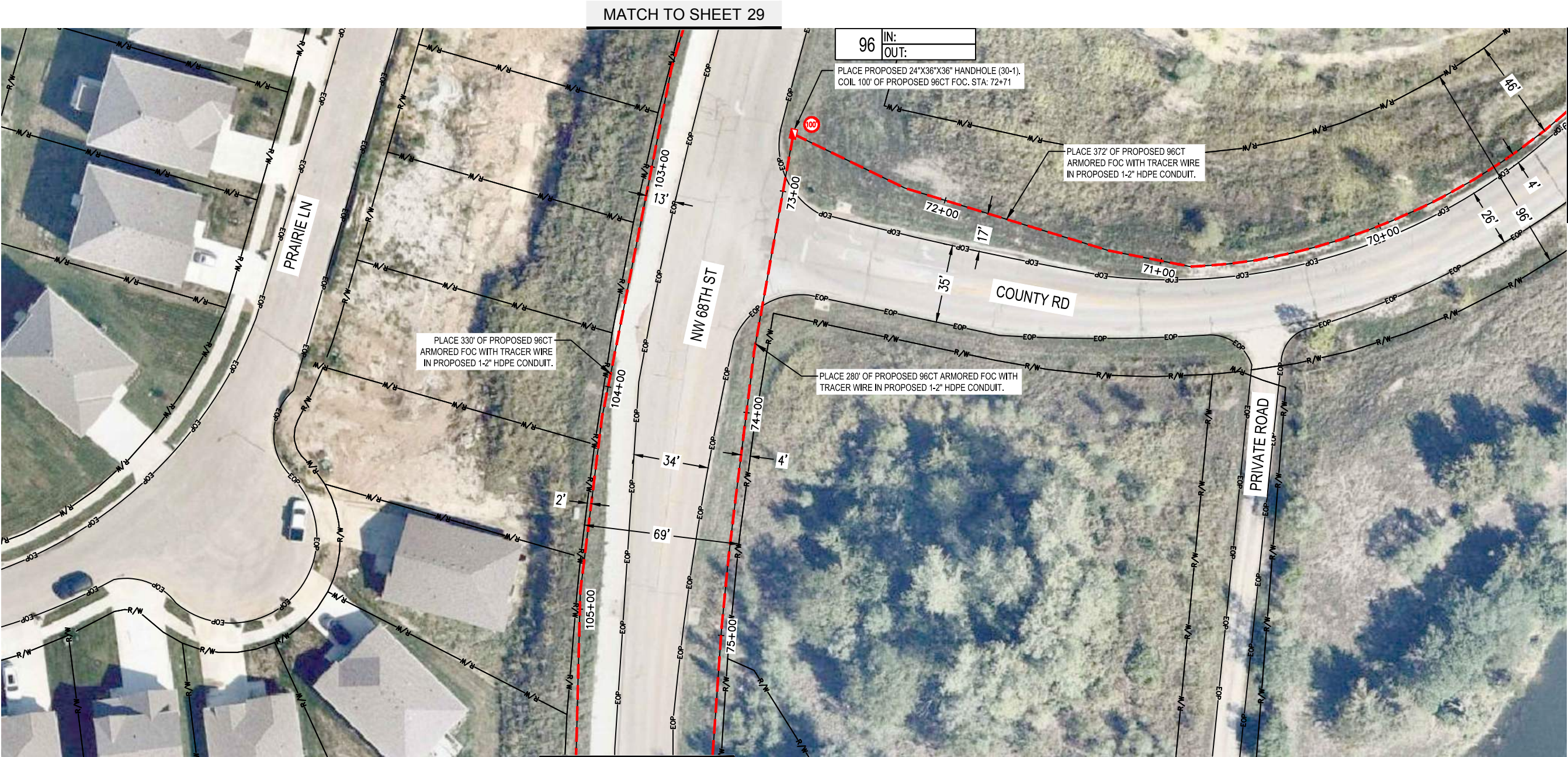
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DATE: Sep 21, 2023 6:57am XREFS: Alignment Sheets NetExt_Base_1 D15-1955_MO_GISMS N-Route Alignment S-Route Alignment

SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	982
2.	SUPPLY & INSTALL TRACER WIRE	LF	982
3.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	1
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	1082



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

PARKVILLE, MO

2023

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REVIEWS DESCRIPTION

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drawn by: CAS

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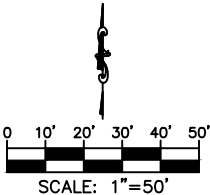
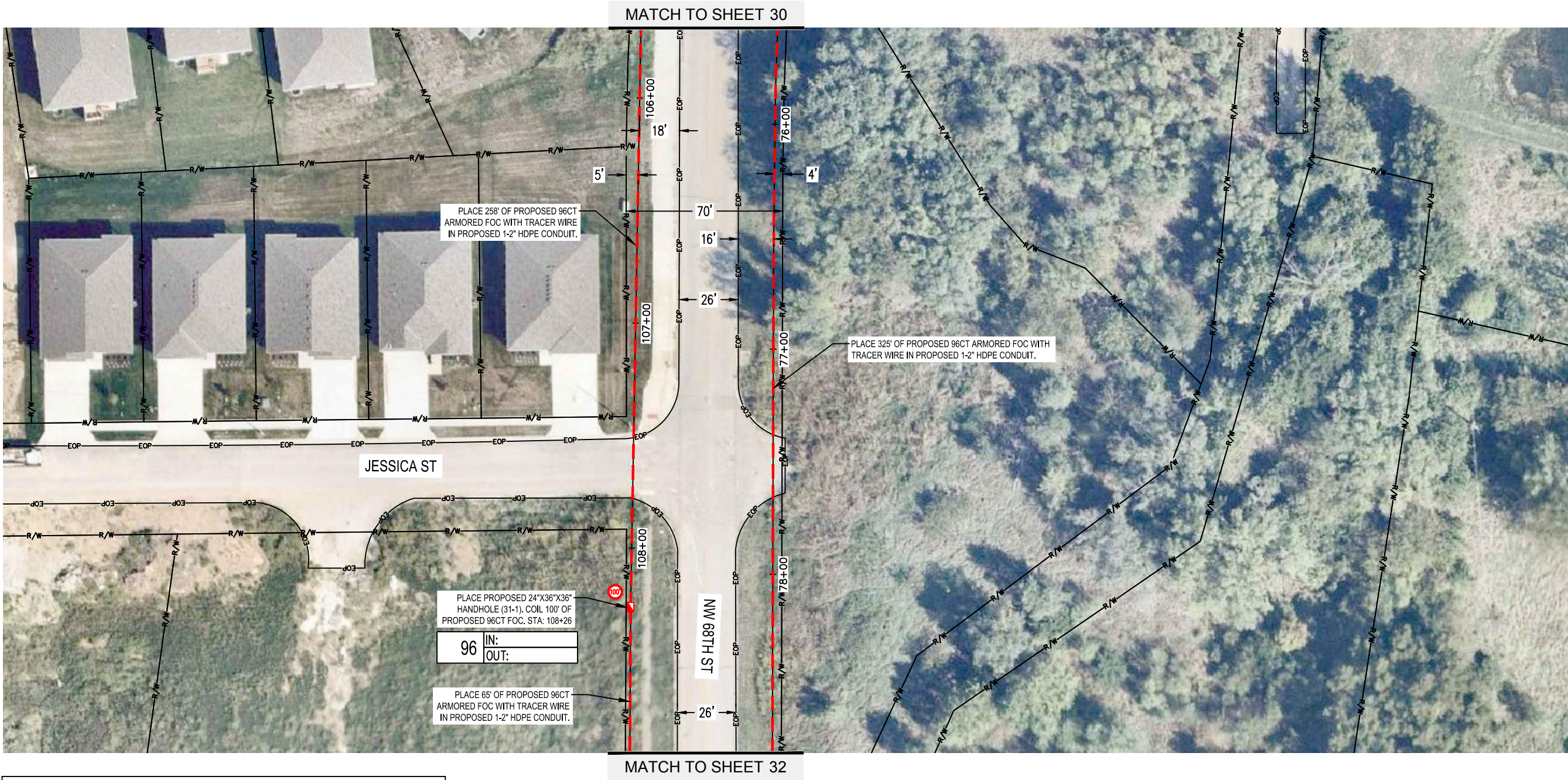
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SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	648
2.	SUPPLY & INSTALL TRACER WIRE	LF	648
3.	SUPPLY & INSTALL 24"x36"x36" HANDHOLE	EACH	1
4.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	748



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

2023

REV. NO.

DATE

REVISIONS DESCRIPTION

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Project no.:
Drawing no.:

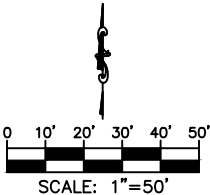
SHEET

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SHEET QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	657
2.	SUPPLY & INSTALL TRACER WIRE	LF	657
3.	SUPPLY & INSTALL 24"x36"x36" HANDHOLE	EACH	1
4.	SUPPLY & INSTALL 30"x48"x36" HANDHOLE	EACH	1
5.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	907



PROJECT SHEET

SUPPORT SERVICES NORTH RING
PARK HILL SCHOOL DISTRICT

PARKVILLE, MO

2023

REVISIONS

REV. NO.	DATE	REVISIONS DESCRIPTION

olsson

7301 West 133rd Street, Suite 200
Overland Park, KS 66213-4750
TEL 913.381.1170 www.olson.com

drawn by: CAS
checked by: JMC
approved by: ENG
project no.:
drawing no.:

SHEET
32 of 35

PE Stamp & Approval

TYPICALS

PCA243636-00006

PCX POLYMER CONCRETE ASSEMBLY

24" x 36" x 36"
(For actual dimensions see drawing)

Polymer Concrete Assembly, Straight Sides, No Floor, WUC 3.6, ANSI/SCTE 77 - "T15/20K," 3/8" Hex Bolts, Standard Nameplate (Specify at time of order) Installed

LOAD RATINGS

Incidental Traffic - Parking Lot, Sidewalk
Conforms to:

- WUC 3.6
- ASTM C 857
- ANSI/SCTE 77

FEATURES:

- Drop-In nameplate
- Shipped assembled
- Skid resistant cover
- Stainless steel bolts
- Cast-in floating nut box
 - Integral drain holes

**Additional product information
continued on the reverse**

newbasis
Composites for Infrastructure

2626 Kansas Avenue
Riverside, California 92507

951.787.0600

951.787.0632 (fax)

info@newbasis.com

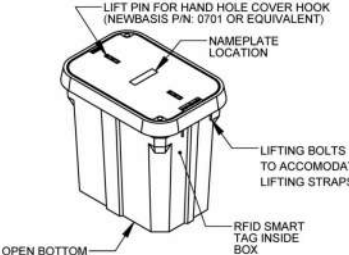
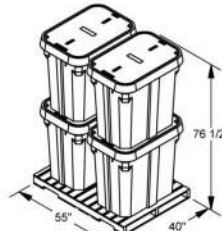
newbasis.com

PCX
POLYMER CONCRETE
The Next Generation

Inside Dimensions

Length	Width	Depth
33 9/16"	21 15/16"	33"
27 1/8"	15 1/2"	

Rev: C.0

PCA243636-00006	PCX POLYMER CONCRETE ASSEMBLY	 
Polymer Concrete Assembly, Straight Sides, No Floor, WUC 3.6, ANSI/SCTE 77 - T15/20K, 3/8" Hex Bolts, Standard Nameplate (Specify at time of order) Installed		24" x 36" x 36" For actual dimensions, see drawing on front side.
AVAILABLE OPTIONS ☐ Tier 22 Load Rating ☐ Penta Bolts ☐ Telephone EMS ☐ Power EMS ☐ Custom Nameplate Installed ☐ Custom Nameplate Shipped Separately ☒ Standard Nameplate Installed ☐ Standard Nameplate Shipped Separately	NAMEPLATES One standard nameplate included with each assembly, installed at the factory or easily installed in the field. Custom nameplates are available. Contact customer service. Standard Nameplates • Electric • Telephone • Fiber Optic • Water • Street Lighting • Broadband • Traffic • CATV • Traffic Signal • Communications	 LIFT PIN FOR HAND HOLE COVER HOOK (NEWBASIS P/N: 0701 OR EQUIVALENT) NAMEPLATE LOCATION LIFTING BOLTS TO ACCOMMODATE LIFTING STRAPS RFID SMART TAG INSIDE BOX OPEN BOTTOM
☒ - Indicates a selected option MATERIAL PROPERTIES AND ATTRIBUTES Compressive Strength Polymer Concrete - 11500 PSI Per ASTM D695 Flexural Strength Polymer Concrete - 4000 PSI Per ASTM D790 Coefficient of Friction (Dry) 1.085 Per ASTM C1028 Polymer Concrete - Advanced composite: Very high strength to weight ratio - Non-metallic - Non-conductive - UV Resistant - High impact resistant - Impervious to chemicals and moisture Materials tested in accordance with ASTM D-543 and ASTM D-570	WEIGHTS AND SHIPPING COVER WEIGHT: 98.0 lbs. BOX WEIGHT: 239.9 lbs. ASSEMBLY WEIGHT: 337.9 lbs. LOADED PALLET WEIGHT: 1394 lbs. Standard shipping includes van delivery of pallet quantities to the lower 48 states. Partial pallet quantities and flat bed shipping available at an additional cost.	PACKAGING (Steel Banding, Edge Protection) PALLET QUANTITY: 4  76 1/2" 55" 40"

Rev. C.0

[illegible]

TYPICAL DETAILS	
SUPPORT SERVICES NORTH RING NETWORK EXTENSION	
PARKVILLE, MO	2023

TOTAL QUANTITIES			
ITEM	ITEM DESCRIPTION	UNITS	QUANTITY
1.	SUPPLY & INSTALL 1-2" HDPE DUCT	LF	11120
2.	SUPPLY & INSTALL 24"X36"X36" HANDHOLE	EACH	9
3.	SUPPLY & INSTALL 30"X48"X36" HANDHOLE	EACH	2
4.	SUPPLY & INSTALL TRACER WIRE	LF	11120
5.	INSTALL 96CT ARMORED FIBER OPTIC CABLE - UNDERGROUND	LF	12470
* 6.	TRAFFIC PERMIT	AGENCIES	1
* 7.	RIGHT OF WAY PERMIT	AGENCIES	1

* CITY, COUNTY, AND STATE.



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Know what's below.
Call before you dig.

drawn by: SPM
checked by: DAH
approved by: CRG
project no.:
drawing no.:
date: 9/21/2023

FINAL QUANTITIES	REV. NO.	DATE	REVISIONS DESCRIPTION	REVISIONS
SUPPORT SERVICES NORTH RING NETWORK EXTENSION				
PARKVILLE, MO				2023

PE Stamp & Approval
CLARENCE R. GASTINEAU
MO. NO. PE-2008025192



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