



ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

763-324-3176

highwaypermits@co.anoka.mn.us

**RIGHT OF WAY
PERMIT NUMBER**

23-114

CSAH 49

CR

APPLICATION FOR PERMIT FOR INSTALLATION OF UTILITIES OR PLACING OBSTRUCTIONS ON THE COUNTY HIGHWAY SYSTEM
ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL

WORK TO START ON ~~4/10/23~~ **04/17/2023**

WORK TO BE COMPLETED ON 10/6/23

DURATION OF JOB 6 months

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT? No

ANOKA COUNTY PROJECT NUMBER

APPLICANT NAME MCImetro

CONTACT PERSON Andy Frette

ADDRESS 1200 Washington Ave

CITY Minneapolis

PHONE NUMBER 612-919-1751

EMAIL andrew.frette@verizonwireless.com

COMPANY OR INDIVIDUAL PERFORMING WORK Comlink Solutions

CONTACT PERSON Mona Roulaine

PHONE NUMBER 651-329-8403

EMAIL mona.roulaine@comlink-solutions.com

ADDRESS OF WORK SITE 10102 Sunset Ave

CITY Circle Pines

NATURE OF WORK Fiber optic installation

METHOD OF INSTALLATION/CONSTRUCTION Overpull & overlash cabling into existing conduit

SURFACE TO BE DISTURBED	SITE PLAN	WILL TRAFFIC BE OBSTRUCTED?	TRAFFIC CONTROL PLAN
<input type="checkbox"/> DITCH	TO BE SUBMITTED	No	TO BE SUBMITTED
<input type="checkbox"/> GRAVEL	VIA EMAIL		VIA EMAIL
<input type="checkbox"/> BITUMINOUS			
<input type="checkbox"/> CONCRETE			
<input checked="" type="checkbox"/> NONE			

DEPTH FROM SURFACE 36"

SIZE AND KIND OF PIPE/CABLE 2" HDPE

NUMBER OF EXCAVATIONS 0

SIZE OF EXCAVATIONS

LOCATION OF EXCAVATIONS

ADDITIONAL DOCUMENTS

TO BE SUBMITTED VIA EMAIL - CITY/MNDOT PERMITS, PHOTOS OF AREA, ETC.



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GENERAL INFORMATION	
ONE PERMIT MUST BE APPROVED FOR EACH COUNTY ROAD ON WHICH WORK WILL BE PERFORMED PRIOR TO ANY WORK WITHIN THE RIGHT OF WAY BY ANY UTILITY/CONTRACTOR. EMERGENCY CONDITIONS WHICH THREATEN THE SAFETY OF THE PUBLIC AND REQUIRE IMMEDIATE REPAIR ARE EXCEPTIONS TO THIS RULE. UNDER THOSE CIRCUMSTANCES, THE UTILITY/CONTRACTOR, IS PERMITTED TO BEGIN AND/OR COMPLETE THE NECESSARY REPAIRS. ACTD SHALL BE NOTIFIED OF EMERGENCY REPAIRS AS SOON AS FEASIBLE AND A WRITTEN PERMIT IS TO BE COMPLETED WITHIN TWO BUSINESS DAYS OF OCCURRENCE.	
A LICENSE-PERMIT BOND IS GENERALLY REQUIRED OF THE CONTRACTOR AS PART OF THE REGISTRATION PROCESS. THE AMOUNT OF WHICH WILL BE DETERMINED BY THE NATURE OF THE UTILITY WORK.	
A SKETCH OR DRAWING SHALL ACCOMPANY EACH PERMIT APPLICATION WHICH WILL SHOW THE LOCATION OF THE PROPOSED WORK/UTILITY WITH REFERENCE TO THE COUNTY HIGHWAY CENTER LINE AND RIGHT OF WAY LINE. A COMPLETE SET OF PLANS IS REQUIRED FOR ALL SEWER/WATER PROJECTS.	
IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO DETERMINE WHICH OF THE SPECIAL CONDITIONS APPLY TO EACH PERMIT.	
THE ANOKA COUNTY TRANSPORTATION DIVISION (ACTD) RESERVES THE RIGHT TO REVOKE ANY UTILITY PERMIT AND HALT WORK, IF, UPON INSPECTION OF ANY JOB SITE, THE SPECIAL CONDITIONS ARE NOT MET, AND/OR A HAZARD EXISTS FOR THE APPLICANT OR PUBLIC SAFETY IS THREATENED. THE FAILURE TO COMPLY WITH THE TERMS AND CONDITIONS OF ANY APPLICABLE FEDERAL, STATE, REGIONAL, AND LOCAL LAWS, RULES AND REGULATIONS, INCLUDING ANY PROVISION OF ANOKA COUNTY'S RIGHT-OF-WAY ORDINANCE SHALL BE CAUSE FOR IMMEDIATE REVOCATION OF A PERMIT.	
THE APPLICANT SHALL NOTIFY ACTD IMMEDIATELY UPON COMPLETION OF PROJECT SO THAT THE ACTD CAN INSPECT THE SITE TO DETERMINE WHETHER OR NOT RESTORATION HAS BEEN SATISFACTORILY COMPLETED.	
THE UNDERSIGNED, HEREBY ACCEPTS THE TERMS AND CONDITIONS OF THIS PERMIT AND THE REGULATIONS OF ANOKA COUNTY, AND AGREES TO FULLY COMPLY THEREWITH TO THE SATISFACTION OF THE ACTD. THE COUNTY OF ANOKA, ITS OFFICIALS, EMPLOYEES, AND AGENTS, SHALL BE HELD HARMLESS, BY THE APPLICANT/PERMITTEE, FROM ANY DEMANDS, CLAIMS, LAWSUITS, OR DAMAGES RELATING TO THE WORK DESCRIBED IN THIS PERMIT.	
APPLICANT'S SIGNATURE Jason Kresser	DATE 03/23/2023

AUTHORIZATION OF PERMIT	
IN CONSIDERATION OF THE APPLICANT'S AGREEMENT TO COMPLY IN ALL RESPECTS WITH THE REGULATIONS OF THE ACTD COVERING SUCH OPERATIONS, PERMISSION IS HEREBY GRANTED FOR THE WORK TO BE DONE AS DESCRIBED IN THE ABOVE APPLICATION. SAID WORK TO BE DONE IN ACCORDANCE WITH THE GENERAL CONDITIONS LISTED ABOVE AND THE SPECIAL CONDITIONS REQUIRED AS HEREBY STATED. IT IS EXPRESSLY UNDERSTOOD THAT THIS PERMIT IS CONDITIONED UPON REPLACEMENT OR RESTORATION OF THE COUNTY HIGHWAY AND ITS RIGHT OF WAY TO THEIR ORIGINAL OR TO A SATISFACTORY CONDITION. IT IS FURTHER UNDERSTOOD THAT THIS PERMIT IS ISSUED SUBJECT TO THE APPROVAL OF LOCAL CITY OR TOWNSHIP AUTHORITIES HAVING JOINT SUPERVISION OVER SAID STREET OR HIGHWAY.	
APPROVED BY: <i>Susan Burgmeier</i> TITLE: <i>Associate Traffic Technician</i>	DATE 03/30/2023

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY
ACHD reserves the right to make changes to these special conditions.



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SPECIAL CONDITIONS

TRAFFIC CONTROL

- 1) DETOURS
 - a) DETAILED DETOUR LAYOUTS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEER FOR APPROVAL.
 - b) NO DETOURS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ANOKA COUNTY TRAFFIC ENGINEER.
 - c) TEN DAYS NOTICE MUST BE GIVEN PRIOR TO THE INSTALLATION OF ANY DETOUR.
 - d) IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO NOTIFY ANOKA COUNTY CENTRAL COMMUNICATIONS, LOCAL GOVERNMENT BODIES, AND ANY AFFECTED BUS COMPANIES TEN DAYS PRIOR TO ANY ROAD CLOSURES/DETOURS.
 - e) IMMEDIATELY UPON COMPLETION OF WORK AND/OR DETOURS, ALL POSTS, BARRICADES, AND SIGNS SHALL BE REMOVED FROM THE RIGHT OF WAY.
- 2) TRAFFIC CONTROL DEVICES
 - a) ALL TRAFFIC CONTROL DEVICES, BARRICADES, FLASHERS, ETC., SHALL BE FURNISHED BY THE APPLICANT AND SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS – FIELD MANUAL OF THE SAME MANUAL.

CONSTRUCTION REQUIREMENTS

- 1) OPEN CUTTING OF BITUMINOUS OR CONCRETE SURFACED ROADS WILL BE ALLOWED ONLY AT THE DISCRETION OF THE COUNTY ENGINEER.
- 2) NEITHER SUPPLIES NOR EXCAVATION MATERIALS SHALL BE PLACED ON THE BITUMINOUS OR CONCRETE SURFACE AT ANY TIME.
- 3) NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
- 4) MATERIALS REMOVED FROM THE TRENCH SHALL BE USED AS BACKFILL INsofar AS THEY ARE SUITABLE. ALL BACKFILL MATERIAL SHALL CONFORM TO MNDOT SPECIFICATIONS FOR COMPACTION. THE USE OF HEAVY EQUIPMENT ON TOP OF TRENCH, SLAPPING WITH BACKHOE BUCKET AND/OR BACKCASTING TO ACHIEVE COMPACTION IS PROHIBITED. ANY ADDITIONAL MATERIAL REQUIRED TO BACK FILL TO THE ORIGINAL GRADE SHALL BE FURNISHED BY THE APPLICANT AT NO EXPENSE TO THE ACTD. ALL THE BASE AND SURFACE COURSES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN BEFORE OPERATIONS BEGAN. THE APPLICANT SHALL BE RESPONSIBLE FOR AND RESTORE ANY SETTLEMENT.
- 5) ALL CULVERTS, DITCHES, SHOULDERS, AND BACKSLOPES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE DIRECTED BY THE ACTD. SHOULDERS WHICH HAVE BEEN PREVIOUSLY CONSTRUCTED OR RECONSTRUCTED WITH SPECIAL MATERIALS SHALL BE REPLACED IN KIND. RESTORATION OF SIGNS, GUARDRAILS, GUARDPOSTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE APPLICANT AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- 6) ALL ROADWAY MAINTENANCE REQUIRED WITHIN THE LIMITS OF THE UTILITY PROJECT THAT IS RELATED TO THE APPLICANT'S ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT FOR ONE YEAR AFTER COMPLETION OF THE PROJECT. UPON COMPLETION OF THE RESTORATION WORK, THE APPLICANT SHALL REQUEST A FINAL INSPECTION BY THE ACTD. THE ACTD'S APPROVED COMPLETION DATE SHALL BE THE STARTING DATE OF THE APPLICANT'S ONE YEAR RESPONSIBILITY.

HORIZONTAL BORING AND JACKING

- 1) ALL HARD SURFACE ROADWAYS SHALL BE JACKED OR BORED.
- 2) ALL CROSSINGS OF ANOKA COUNTY MAINTAINED ROADBEDS SHALL BE MADE BY BORING INSIDE A CASING OR CARRIER PIPE, OR BY JACKING UNLESS OTHERWISE DIRECTED BY THE ANOKA COUNTY ENGINEER. THE AUGER SHALL LAD THE CASING OR CARRIER PIPE BY AT LEAST SIX INCHES WHENEVER POSSIBLE AND NEVER LEAD THE CARRIER PIPE BY MORE THAN ONE INCH.
- 3) THE USE OF PNEUMATIC DEVICES TO FACILITATE THE ROADBED CROSSINGS WILL BE ALLOWED IN MOST CASES WITH PRIOR APPROVAL. IN THE EVENT APPROVAL IS NOT GRANTED AND APPLICANT USES A PNEUMATIC DEVICE TO CROSS A ROADBED AND ENCOUNTERS AN OBSTRUCTION AND/OR UNSTABLE SUBBASE MATERIAL WHICH MAKES FORWARD OR REVERSE MOTION OF PNEUMATIC DEVICE IMPOSSIBLE, SAID PNEUMATIC DEVICE THEN BECOMES PART OF THE ROADWAY SUBBASE AND PERMISSION TO EXCAVATE TO RETRIEVE DEVICE WILL NOT BE GRANTED.
- 4) IF A PNEUMATIC DEVICE IS USED FOR THE WORK PERMITTED HEREIN, THE INSTALLATION MUST BE KEPT TO A MINIMUM OF FOUR FEET BELOW THE SURFACE OF THE ROADWAY IF THE PNEUMATIC DEVICE IS LESS THAN TWO INCHES IN DIAMETER, AND A MINIMUM OF FIVE FEET BELOW THE SURFACE OF THE ROADWAY IF THE PNEUMATIC DEVICE IS TWO INCHES IN DIAMETER OR LARGER.

BITUMINOUS RESTORATION

- 1) THE LOCATIONS AND DIMENSIONS OF ALL OPENINGS TO BE MADE IN THE BITUNINOUS SUFACE SHALL BE APPROVED BY THE ACTD PRIOR TO ANY CUTTING OR ANY SURFACE OPENING OPERATIONS.
- 2) ALL OPENINGS IN BITUMINOUS SURFACES SHALL BE CUT IN A STRAIGHT LINE WITH THE SIDES SMOOTH AND VERTICAL. NO RAGGED EDGES WILL BE PERMITTED. CUTTING SHALL BE DONE WITH A CONCRETE SAW.
- 3) ALL NECESSARY DUST CONTROL OPERATIONS SHALL BE CARRIED OUT BY THE APPLICANT AT NO EXPENSE TO ANOKA COUNTY.
- 4) THE MINIMUM REQUIREMENT FOR SUBGRADE REPLACEMENT SHALL BE THE UPPER TWELVE INCHES OF MATERIAL AND SHALL MEET MNDOT SPECIFICATIONS FOR CLASS FIVE PLACED IN SIX INCH LAYERS COMPACTED TO ONE HUNDRED PERCENT OF OPTIMUM DENSITY.
- 5) ALL MANHOLE CASINGS, GATE VALVES, AND OTHER UTILITY STRUCTURES SHALL BE SET ONE QUARTER INCH BELOW THE TOP OF THE FINISHED SURFACE.
- 6) BITUMINOUS TACK COAT MATERIALS AND APPLICATION THEREOF SHALL CONFORM TO MNDOT SPECIFICATION 2357.
- 7) ALL BITUMINOUS SURFACING SHALL BE REPLACED AS SOON AS PRACTICAL AFTER THE BASE CONSTRUCTION. ALL BITUMINOUS SURFACING SHALL BE MACHINE LAID. ANY EXCEPTIONS MUST BE APPROVED BY THE ACTD. BITUMINOUS SURFACING SHALL BE REPLACED TO ORIGINAL PAVEMENT DEPTH OR TO A MINIMUM OF SIX INCHES OF BITUMINOUS MIXTURE (2360), WHICHEVER IS GREATER. BITUMINOUS MIXTURES MUST BE PLACED IN LIFTS NOT EXCEEDING THREE INCHES IN THICKNESS FOR BASE AND BINDER COURSES AND NOT EXCEEDING TWO INCHES FOR THE WEAR COURSE.
- 8) ALL SURFACE RESTORATION REGARDLESS OF SIZE SHALL CONFORM TO EXISTING GRADES.
- 9) ANY UNNECESSARY OR NEGLIGENT DAMAGE TO BITUMINOUS SURFACE IN CONJUNCTION WITH THE INSTALLATION AND/OR REPAIR OF A UTILITY SHALL BE CUT OUT AND REPLACED IN KIND AS DIRECTED BY THE ACTD.

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CONCRETE RESTORATION

- 1) CURB AND GUTTER, SIDEWALKS, AND DRIVEWAYS SHALL BE RESTORED IN ACCORDANCE WITH MNDOT SPECIFICATIONS 2531 AND 2521.

UTILITY LINES

- 1) THERE SHALL BE ONLY A SINGLE POLE LINE ON THE COUNTY RIGHT OF WAY ON EITHER SIDE OF THE CENTER LINE THEREOF.
- 2) EXACT LOCATIONS OF LONGITUDINAL INSTALLATIONS ON COUNTY HIGHWAYS SHALL BE LOCATED AS DIRECTED BY THE ACTD.

SECTION CORNER MONUMENTS

- 1) UTILITY LOCATIONS SHALL NOT INTERFERE WITH THE LOCATION OF ANY SECTION, QUARTER, WITNESS, OR RIGHT OF WAY MONUMENTS. FOR ASSISTANCE IN LOCATIONS, CONTACT THE ANOKA COUNTY SURVEYOR'S OFFICE.
- 2) THE APPLICANT SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING PROPERTY IRONS DISTURBED DURING CONSTRUCTION.
- 3) THE APPLICANT SHALL NOTIFY THE ANOKA COUNTY SURVEYOR'S OFFICE THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED DISTURBANCE OF ANY SECTION, QUARTER, WITNESS, OR RIGHT OF WAY MONUMENTS.
- 4) ANY MONUMENT DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE RESET BY THE ANOKA COUNTY SURVEYOR'S OFFICE AT THE EXPENSE OF THE APPLICANT.

ATTACHING TO BRIDGES/STRUCTURES

- 1) NO UTILITY IS PERMITTED TO BE HUNG FROM, OR OTHERWISE ATTACHED TO ANY BRIDGE OR STRUCTURE WITHOUT HAVING DETAILED PLANS APPROVED BY THE ANOKA COUNTY ENGINEER. THESE PLANS ARE TO SHOW APPROACHES TO THE STRUCTURE, METHOD OF INSTALLATION, TYPE, AND DIMENSION OF HOUSING FOR THE UTILITY.

INITIAL JK

Special Conditions for Advance Notification for Commencement and Completion of Work

Permit Holder:

Permit Number:

Contractor Contact:

CSAH/CR:

Permit Active:

Permit Expire:

All subcontractors, installers, and crew shall possess a copy of all documents in relation to the approved permit prior to the commencement of work and be kept on site. This includes, but it not limited to the following:

- Approved Permit
- Notification Sheet
- Any/all traffic control layouts/plans

Special Conditions

- Shall notify Andrea Schmid at 763-324-3128 or andrea.schmid@co.anoka.mn.us
 - At least 36 hours prior to the commencement of work
 - When there is any change to traffic control set up (ex: stage 1 to stage 2)
 - When work is complete – including restorations
- All traffic control shall be in accordance with the most current version of the MnDOT Temporary Traffic Control Manual
- All traffic control devices shall be removed, signs turned, laid down, or covered at the end of each work day, or when no work is taking place unless written approval stating otherwise
- All traffic control devices shall be removed when work is complete
- Shall use a shoulder closure (Layout 8) if any portion of the shoulder is encroached
- Shall use a RTL closure (Layout 33), 9am-3pm, if any portion of the road is encroached
- No closures without prior approval from ACHD
- **No work during inclement weather or when plows are out in any capacity**
- No parking/work on the sidewalk or trail without prior authorization from the city
- Shall contact the Anoka County Signal Department at 651-801-8969 for work with or near signals
- **Shall stay within 33' from centerline in front of 6808 North Rd**

MCI metro

124289_MIN RESHENAU_2211ENR_VZW-POR_03.10.23



LINO LAKES, MN

ISSUED FOR PERMITTING

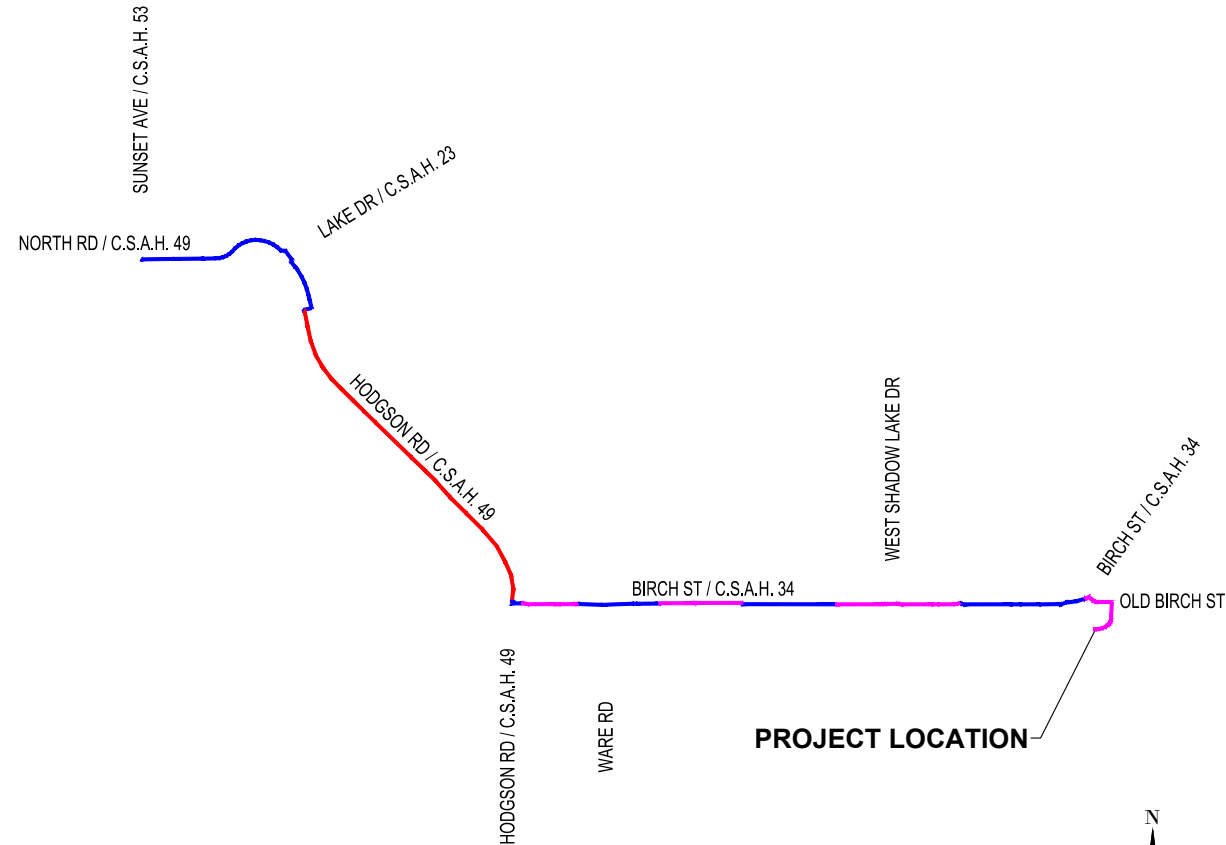
ISG PROJECT # 23-28346

SHEET INDEX

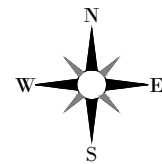
1	TITLE - OVERVIEW MAP - PROJECT TOTALS - GENERAL NOTES	4	GENERAL NOTES
2	LEGENDS-NOTES - SYMBOL LEGEND - LINETYPE LEGEND - CONSTRUCTION NOTES - ABBREVIATIONS	5-30	PLAN SHEETS
3	CONTACT SHEET		

PERMITS

PERMIT #	DESCRIPTION	SHEET	QUANTITY
	ANOKA COUNTY (TOTAL)	5-29	13,596'
PERMIT 1	CR-49	5-17	6,948'
PERMIT 2	CR-34	17-29	6,648'
PERMIT 3	DNR	15	71'
PERMIT 4	CITY OF LINO LAKES	29-30	727'
PERMIT 5	XCEL ENERGY (ALONG CR-49)	9-17	23-POLES (4,264')



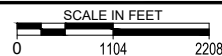
PROJECT LOCATION



MAP LEGEND:

- UNDERGROUND
- AERIAL
- OVERPULL

LOCATION MAP



GIS DISCLAIMER:
INFORMATION FOR THE BOUNDARY / LOT LINES, AND UNDERGROUND UTILITIES SHOWN WAS DERIVED FROM DIGITAL DATABASES AND IS FOR INFORMATIONAL PURPOSES ONLY. DATA MAY NOT HAVE BEEN PREPARED FOR, OR BE SUITABLE FOR, LEGAL, ENGINEERING, OR SURVEYING PURPOSES.

PROJECT GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED BY THE ARCHITECT/ENGINEER.
- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- THE LOCATION AND TYPE OF ALL INPLACE UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS AND ELEVATIONS OF ALL INPLACE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
- THE CONTRACTOR IS TO CONTACT "GOPHER STATE ONE CALL" FOR UTILITY LOCATIONS, MINIMUM 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (1-800-252-1166).

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PROJECT

**124288_MIN RESHENAU
2211CENR_VZW-POR**

LINO LAKES MN

REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	23-28346
FILE NAME	28346-UTILITY
DRAWN BY	JK
DESIGNED BY	CCB
REVIEWED BY	KV
ORIGINAL ISSUE DATE	02/23/2023
CLIENT PROJECT NO.	124288

PROJECT INDEX:

OWNER:
MCI metro
ACCESS TRANSMISSION
SERVICES CORP D/B/A VERIZON
ACCESS TRANSMISSION
OUTSIDE PLANT CONSTRUCTION

PROJECT ADDRESS / LOCATION:

S28 T31N R22W

870 BIRCH ST.
LINO LAKES, MN 55014

LATITUDE: 45.14494634470876
LONGITUDE: -93.14485298614863

MANAGING OFFICE:



BLOOMINGTON OFFICE
7900 INTERNATIONAL DRIVE
SUITE 550
MINNEAPOLIS, MN 55425
PHONE: 952.426.0699

PROJECT MANAGER: JAKE JORDAN
EMAIL: jake.jordan@ISGinc.com

TITLE

TITLE

SHEET

1 OF 30



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PROJECT

**124288_MIN RESHENUA
2211CENR_VZW-POR**

LINO LAKES MN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-28346
FILE NAME	28346-UTILITY
DRAWN BY	JK
DESIGNED BY	CCB
REVIEWED BY	KV
ORIGINAL ISSUE DATE	02/23/2023
CLIENT PROJECT NO.	124288

TITLE

LEGENDS-NOTES

SHEET

SYMBOL LEGEND

EXISTING	PROPOSED
SS, SAN, W, G, E, T, TV, FO	MANHOLE
EX CB	STORM INLET
EX CO	STORM CLEANOUT
	STORM CULVERT
	BOX CULVERT
EX CO SAN	SANITARY CLEANOUT
	WATER VALVE
	WELL
EX HYD	HYDRANT
	UTILITY POLE
	LIGHT POLE
	DOWN GUY + ANCHOR
	GROUND
	AERIAL SLACK LOOP
	SLACK COIL
	SPLICE POINT
	TRANSFORMER
	UTILITY PED/CABINET
HH	HANDHOLE
	ELECTRIC METER
	AIR CONDITIONER
	GAS METER
GV	GAS VALVE
	CELL TOWER
EX SIGNAL	TRAFFIC SIGNAL / LIGHT
	UTILITY WARNING MARKER
	RIGHT-OF-WAY MARKER
	SIGN
	STREET SIGN
RR	RAILROAD CROSSING SIGN
	BORE PIT
	SIDEWALK OR PAVEMENT REMOVAL
	DECIDUOUS TREE
	CONIFEROUS TREE
	BUSH
	WETLAND / MARSH
	ROCK

NOTE: CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.

LINETYPE LEGEND

EXISTING	PROPOSED
---	DIRECTIONAL BORE
---	STORM DRAIN
SAN	SANITARY SEWER
W	WATER MAIN
G	GAS
OH	OVERHEAD UTILITY
E	UNDERGROUND ELECTRIC
T	UNDERGROUND TELEPHONE
TV	UNDERGROUND TV
FO	UNDERGROUND FIBER OPTIC
SL/TC	STREET LIGHT/TRAFFIC CONTROL CONDUIT
---	WETLAND
---	WATER EDGE
W-1	WETLAND POLYGON
S-1	WATERWAY POLYGON
x-x	FENCE LINE
---	PROPERTY / LOT LINE
---	RIGHT OF WAY LINE
EOP	EDGE OF PAVEMENT
EOG	EDGE OF GRAVEL
FOC	FACE OF CURB
CL	CENTERLINE
---	EDGE OF BUILDING
---	GUARD RAIL
---	ACCESS CONTROL
---	EASEMENT LINE
100	CONTOURS (MAJOR)
101	CONTOURS (MINOR)

NOTE: CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.

AC	ACRE	INV	INVERT
ADA	AMERICANS WITH DISABILITIES ACT	IP	IRON PIPE
ADD	ADDENDUM	IPS	IRON PIPE SIZE
AFF	ABOVE FINISHED FLOOR	J-BOX	JUNCTION BOX
AGG	AGGREGATE	JT	JOINT
APPROX	APPROXIMATE	LF	LINEAR FEET
ARCH	ARCHITECT, ARCHITECTURAL	LIN	LINEAR
BFE	BASEMENT FLOOR ELEVATION	LPS	LOW PRESSURE STEAM
BIT	BITUMINOUS	LS	LUMP SUM
CAD	COMPUTER-AIDED DESIGN	LSO	LOWEST STRUCTURAL OPENING
CB	CATCH BASIN	MAX	MAXIMUM
CFS	CUBIC FEET PER SECOND	MB	MAIL BOX
CF	CUBIC FOOT	MECH	MECHANICAL
CI	CAST IRON	MH	MANHOLE
CIP	CAST IRON PIPE	MIN	MINIMUM
CIPC	CAST IN PLACE CONCRETE	MISC	MISCELLANEOUS
CJ	CONTROL JOINT	NO	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CMP	CORRUGATED METAL PIPE	NWL	NORMAL WATER LEVEL
CO	CLEANOUT	OC	ON CENTER
CONC	CONCRETE	OCEW	ON CENTER EACH WAY
CONST	CONSTRUCTION	OH	OVERHEAD
CONT	CONTINUOUS	OHD	OVERHEAD DOOR
CY	CUBIC YARD	OZ	OUNCE
C&G	CURB AND GUTTER	PED	PEDESTAL, PEDESTRIAN
DEMO	DEMOLITION	PERF	PERFORATED
DIA	DIAMETER	PL	PROPERTY LINE
DIM	DIMENSION	PP	POLYPROPYLENE
DS	DOWNSPOUT	PSI	POUNDS PER SQUARE INCH
EA	EACH	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRICAL	PVMT	PAVEMENT
ELEV	ELEVATION	QTY	QUANTITY
EOF	EMERGENCY OVERFLOW	RAD	RADIUS
EQ	EQUAL	RCP	REINFORCED CONCRETE PIPE
EX	EXISTING	RD	ROOF DRAIN
FDC	FIRE DEPARTMENT CONNECTION	REBAR	REINFORCING BAR
FDN	FOUNDATION	REM	REMOVE
FFE	FINISHED FLOOR ELEVATION	ROW	RIGHT OF WAY
FPM	FEET PER MINUTE	R/W	RIGHT OF WAY
FPS	FEET PER SECOND	SAN	SANITARY
FT	FOOT, FEET	SCH	SCHEDULE
FTG	FOOTING	SF	SQUARE FOOT
GA	GAUGE	SPEC	SPECIFICATION
GAL	GALLON	SQ	SQUARE
GALV	GALVANIZED	STA	STATION
GC	GENERAL CONTRACTOR	SY	SQUARE YARD
GFE	GARAGE FLOOR ELEVATION	T/C	TOP OF CURB
GL	GUTTER LINE	TEL	TELEPHONE
GPM	GALLONS PER MINUTE	TEMP	TEMPORARY
GV	GATE VALVE	THRU	THROUGH
HDPE	HIGH DENSITY POLYETHYLENE	TNFH	TOP NUT OF FIRE HYDRANT
HD	HEAVY DUTY	TRANS	TRANSFORMER
HH	HANDHOLE	TV	TELEVISION
HORIZ	HORIZONTAL	T/W	TOP OF WALL
HR	HOUR	TYP	TYPICAL
HWL	HIGH WATER LEVEL	UT	UTILITY, UNDERGROUND TELEPHONE
HWY	HIGHWAY	VCP	VITRIFIED CLAY PIPE
HYD	HYDRANT	W/O	WITHOUT
I	INVERT	W/	WITH
ID	INSIDE DIAMETER	YD	YARD
IN	INCH	YR	YEAR

VERIZON BUSINESS

OUTSIDE PLANT ENGINEERING:

PROJECT ENGINEER:

ANDY FRETTE
1200 WASHINGTON AVE (612) 919-1751
MINNEAPOLIS, MN 55401

SENIOR PROJECT ENGINEER:

DAN SCHMIDT
1200 WASHINGTON AVE (612) 221-7997
MINNEAPOLIS, MN 55401

ENGINEERING CONTRACTOR:

NAME OF FIRM: ISG INC.

JAKE JORDAN
7900 INTERNATIONAL DR. SUITE 550 (612) 598-1058
BLOOMINGTON, MN 55425

CONSTRUCTION CONTRACTOR:

NAME OF FIRM: COMLINK SOLUTIONS

MONA ROULAINÉ
2415 ANNAPOLIS LN N. SUITE 140 (651) 329-8403
PLYMOUTH, MN 55441

UTILITIES

Company Name	Marking Concerns	Damage
ARVIG	(218)346-5500	(218)346-5500
ANOKA COUNTY	(763)324-3138	(763)324-3100
CITY OF BLAINE	(763)785-6165	(763)785-6165
COMCAST	(800)778-9140	(651)493-5143
CITY OF CIRCLE PINES	(763)784-5898	(612)534-2790
CENTENNIAL SCHOOLS	(320)963-2400	(320)963-2400
CITY OF LINO LAKES	(651)982-2400	(651)248-9103
CENTURYLINK - CTLQL	(800)778-9140	(303)260-4929
CONNEXUS ENERGY	(763)323-4215	(763)323-2660
MCI	(800)624-9675	(800)624-9675
METROPOLITAN COUNCIL (MCES)	(651)602-4511	(651)602-4511
CENTER POINT ENERGY	(800)778-9140	(612)321-5200
TTM (BUSINESS CLOSED)	(877)848-7472	
XCEL ENERGY	(651)229-2427	(888)968-9235
ZAYO BANDWIDTH	(800)961-6500	(800)961-6500

CITY GOVERNMENT

CTY OF LINO LAKES

PUBLIC WORKS
1189 MAIN ST
LINO LAKES, MN 55014
P: 651-982-2440
F: 651-982-2499
PublicServices@linolakes.us

ROW Permit Engineering Division
600 TOWN CENTER PARKWAY.
LINO LAKES, MN 55014
P: 651-982-2400
F: 651-982-2499

COUNTY GOVERNMENT

ANOKA COUNTY

1440 BUNKER LAKE BLVD NW,
ANDOVER, MN 55304
RS-HwyDept-Support@co.anoka.mn.us
Phone: 763-862-4200
FAX: 763-862-4201

STATE GOVERNMENT

MINNESOTA DEPARTMENT OF
TRANSPORTATION
ANN DRIVER
UTILITY PERMITS
MAILSTOP 678
395 JOHN IRELAND BLVD
SAINT PAUL, MN 55155
ann.driver@state.mn.us



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PROJECT

**124288_MIN RESHENAU
2211CENR_VZW-POR**

LINO LAKES MN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-28346
FILE NAME	28346-UTILITY
DRAWN BY	JK
DESIGNED BY	CCB
REVIEWED BY	KV
ORIGINAL ISSUE DATE	02/23/2023
CLIENT PROJECT NO.	124288

TITLE

**PROJECT
CONTACTS**

SHEET

3

OF 30

GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION PERMITS OR NOTIFICATIONS HAVE BEEN COMPLETED OR APPLIED FOR BY ISG.
2. ANY ADJACENT AREAS DAMAGED DURING CONSTRUCTION MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
3. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY IRONS DURING CONSTRUCTION AND RESET BY A LICENSED LAND SURVEYOR IF DISTURBED.
4. ROUTE DEVIATIONS SHALL NOT BE ALLOWED WITHOUT CONCURRENCE OF DESIGNER.
5. BRUSHING AND TREE REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR WITH THE FOLLOWING CONDITIONS:
-ALL BRUSH AND TREES ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
6. ALL ROCKS TURNED UP DURING PLACEMENT MUST BE REMOVED BY CONTRACTOR OR PLACED BACK IN TRENCH DURING RESTORATION SO AS NOT TO CAUSE A HAZARD FOR VEHICLE OR FOOT TRAVEL.
7. ALL ABRUPT CHANGES IN GRADE SUCH AS BERMS AND DITCHES SHALL BE GRADUALLY SLOPED AND RESTORED TO THEIR NATURAL STATE.
8. UNLESS OTHERWISE SPECIFIED BY THE DESIGNER, THE CABLE PLACING DEPTHS ARE:

FIBER OPTIC CABLE
MINIMUM DEPTH IN SOIL: 36"
MINIMUM DEPTH AT ROAD CROSSING: 60" (IN RURAL AREAS)
9. THE CONTRACTOR IS RESPONSIBLE FOR PLACING ROAD GRAVEL IN ALL HAND HOLES PLACED OR ENTERED.
10. A MINIMUM 6" BED OF ROAD GRAVEL SHOULD BE PLACED PRIOR TO SETTING HAND HOLES.
11. ACORN TYPE HEX HEAD THREADED GROUND ROD CLAMPS SHOULD BE USED TO FASTEN GROUND WIRE TO GROUND RODS IN HAND HOLES WITHOUT RHINO TEST STATIONS.
12. ALL CABLE, DUCT & TRACER WIRE SHOULD BE TAGGED BY CONSTRUCTION CONTRACTOR.
13. BORES OVER 500 FT. MAY BE BROKEN UP INTO SHORTER BORES FOR CONTRACTORS CONVENIENCE, WITH THE EXCEPTION TO PLACING BORE PITS IN WETLANDS WHICH WILL HAVE TO BE APPROVED BY DESIGNER.
14. PROPOSED WETLAND BORE PITS SHOULD BE RECEIVING PITS ONLY, PREFERABLY COUPLING OF DUCT BE COMPLETED BY HAND-DIGGING ONLY. DO NOT SET UP THE BORE RIG IN WETLANDS, WITHOUT PRIOR AUTHORIZATION.
15. ALL AERIAL CONSTRUCTION TO MEET NESC AND RUS SPECIFICATIONS.
16. PROPOSED PLACEMENT OF FACILITIES IS BASED ON DESIGN AND PLANNING LOCATES OBTAINED THROUGH THE STATE ONE CALL SYSTEM. ACTUAL FACILITY PLACEMENT IS SUBJECT TO CHANGE BASED ON FIELD LOCATES ENCOUNTERED DURING CONSTRUCTION.
17. PERMITS (PERMIT BOOK WILL BE PROVIDED PRIOR TO CONSTRUCTION). THE CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND FOLLOWING ANY AND ALL STIPULATIONS SET FORTH BY THE PERMIT ENTITIES.

FIBER OPTIC CABLE UNCOVERING SYSTEM

1. THE TITLE OF THIS PROGRAM, F.O.C.U.S., AN ACRONYM FOR "FIBER OPTIC CABLE UNCOVERING SYSTEM," 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-F.O.C.U.S.
2. F.O.C.U.S. 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 F.O.C.U.S. IS MANDATORY AT EVERY PRE-BID, PRE-CONSRUCTION SITE MEETING AND DAILY TAILGATE MEETING. F.O.C.U.S. 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 SYSTEM. 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 AS-BUILTS.
 - IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 3 FEET OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY 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 CONTINUALLY WITH ORANGE PAINT 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 CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 30 FT.
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 3 FT. OF OSP FACILITIES REQUIRES ON-SITE 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.

MCI OUTSIDE PLANT CONSTRUCTION GENERAL REQUIREMENTS

1. ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS MUST BE FOLLOWED WITHOUT EXCEPTION.
2. 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.
3. USE OF INTOXICANTS, DRUGS, INHALANTS OR ANY OTHER SUBSTANCES THAT MAY IMPAIR ALERTNESS ARE STRICTLY PROHIBITED.
4. 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.
5. 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.
6. TOOLS AND EQUIPMENT SPECIFICALLY DESIGNED FOR THE JOB AT HAND ARE REQUIRED. USE THE PROPER TOOL FOR THE JOB.
7. CONDUIT WORK INVOLVING ACTIVE CABLES REQUIRES SPECIALIZED TOOLS SPECIFICALLY DESIGNED TO ACCESS DUCTS WITH ACTIVE CABLES.
8. PROTECTING MCI FACILITIES IS EXTREMELY IMPORTANT; HOWEVER, SAFETY REGARDING YOURSELF AND OTHERS IS THE MOST IMPORTANT PART OF ANY PROJECT.



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PROJECT

**124288_MIN RESHENAU
2211CENR_VZW-POR**

LINO LAKES MN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-28346
FILE NAME	28346-UTILITY
DRAWN BY	JK
DESIGNED BY	CCB
REVIEWED BY	KV
ORIGINAL ISSUE DATE	02/23/2023
CLIENT PROJECT NO.	124288

TITLE

GENERAL NOTES

SHEET



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2211CENR_VZW-POR**

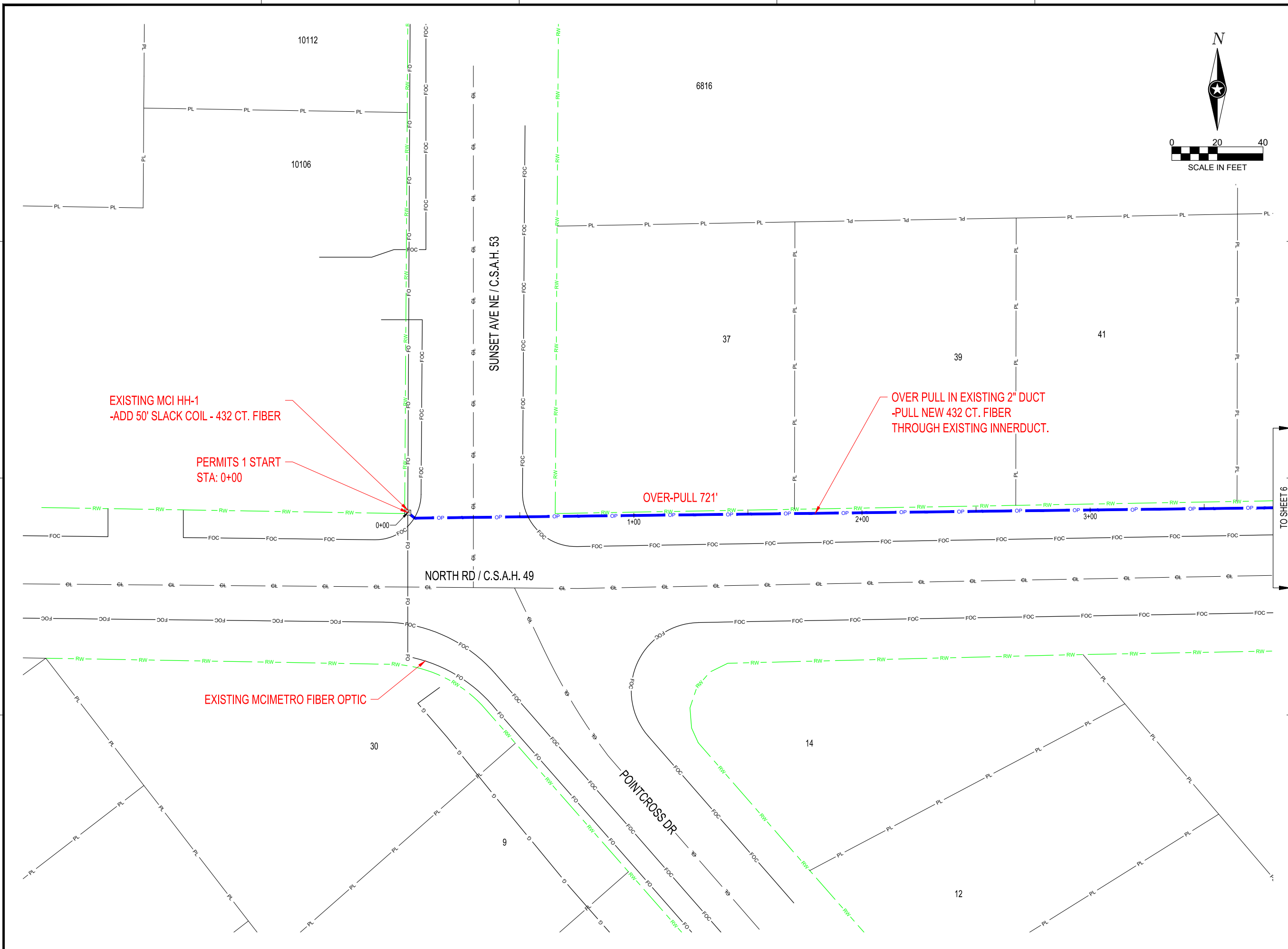
LINO LAKES MN

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TITLE
PLAN SHEET

SHEET
5 OF 30



TO SHEET 6



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PROJECT
**124288_MIN RESHNAU
2211CENR_VZW-POR**

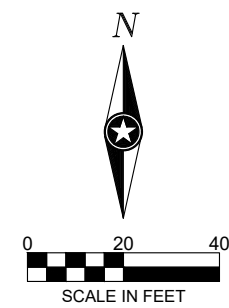
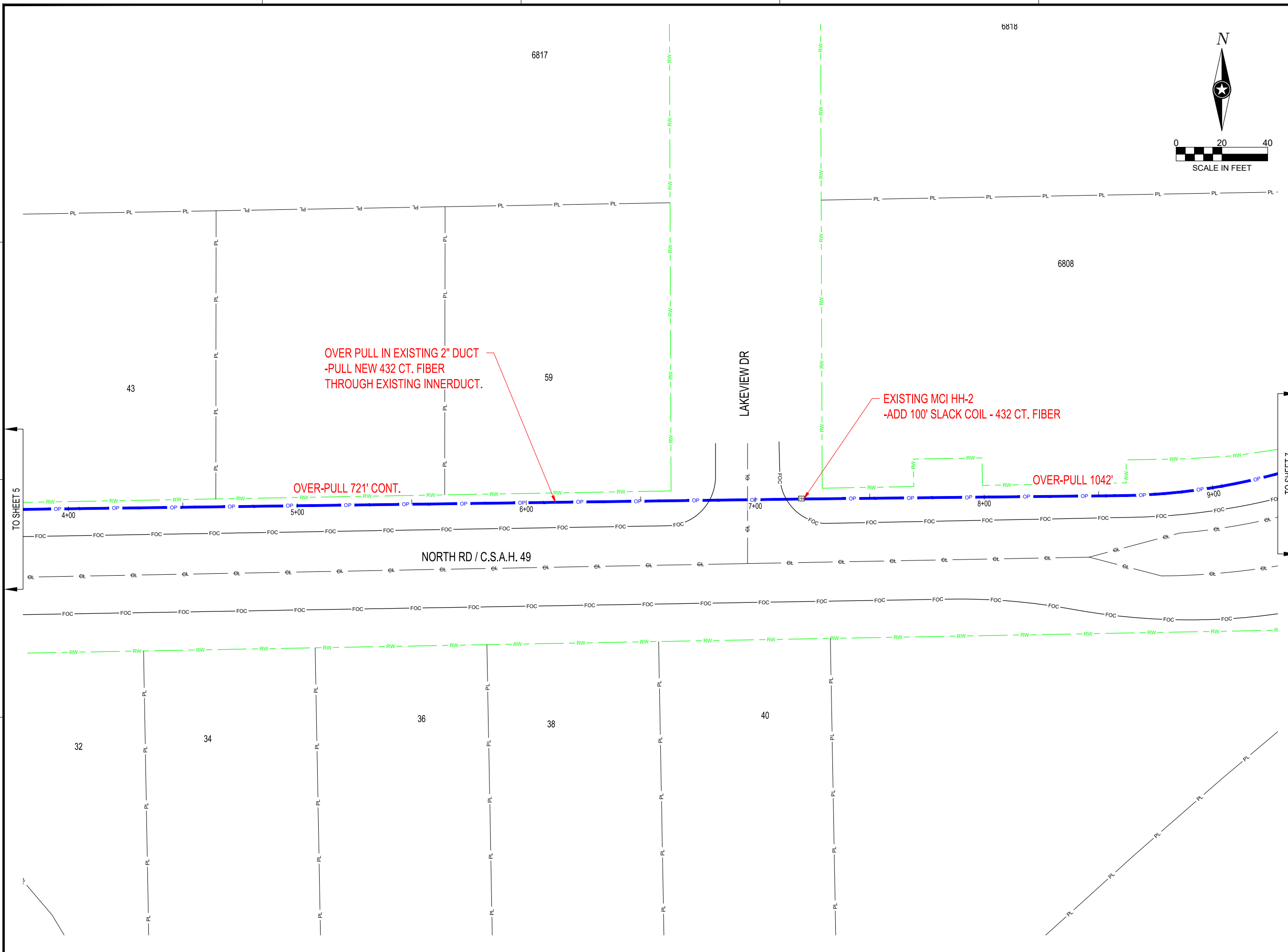
LINO LAKES MN

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TITLE
PLAN SHEET

SHEET
6 OF 30



TO SHEET 5

TO SHEET 7



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PROJECT
**124288_MIN RESHNAU
2211CENR_VZW-POR**

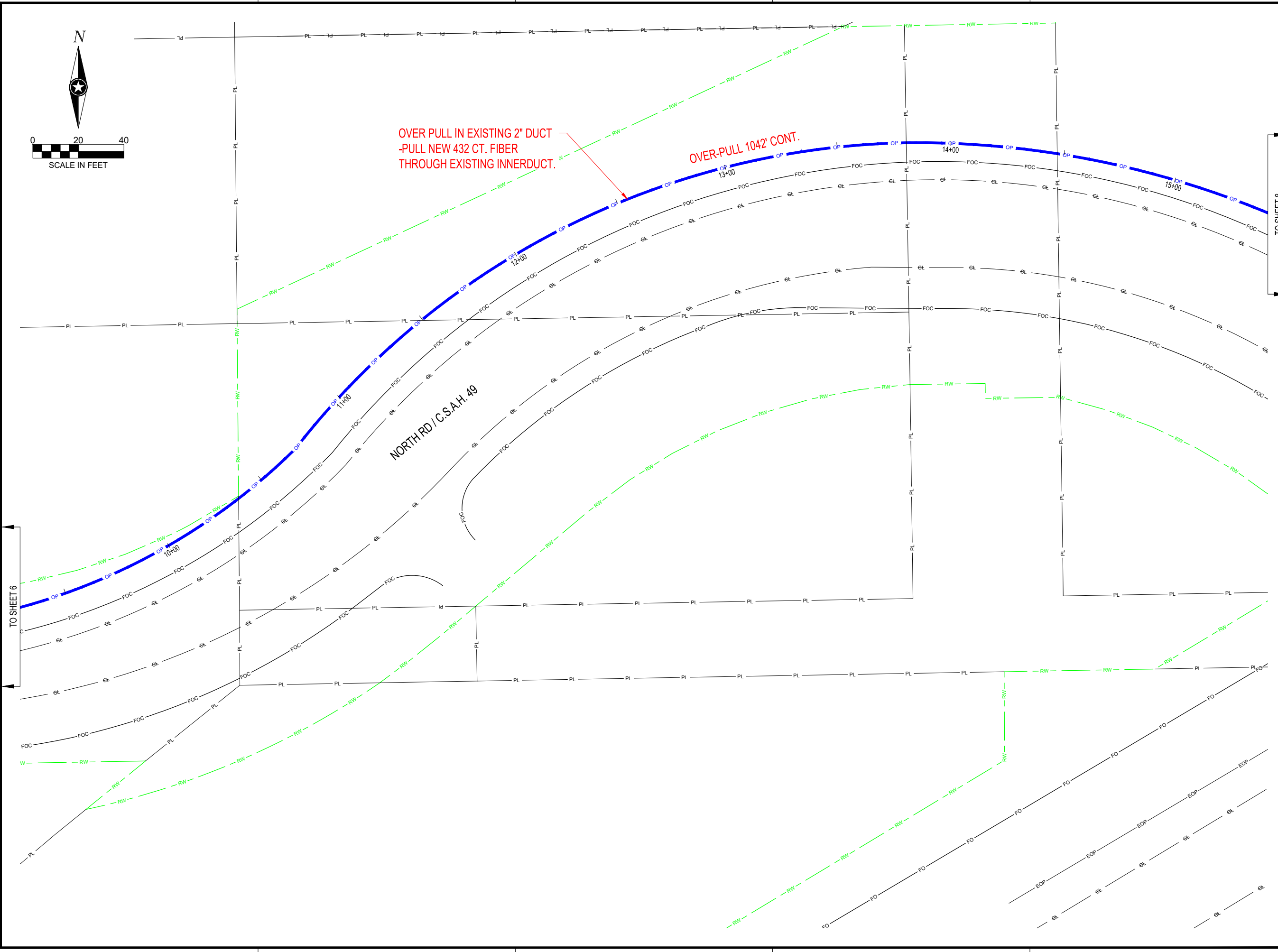
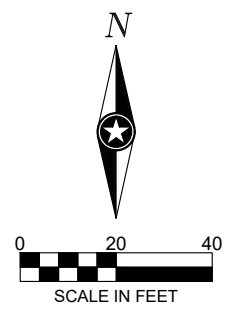
LINO LAKES MN

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TITLE
PLAN SHEET

SHEET
7 OF 30



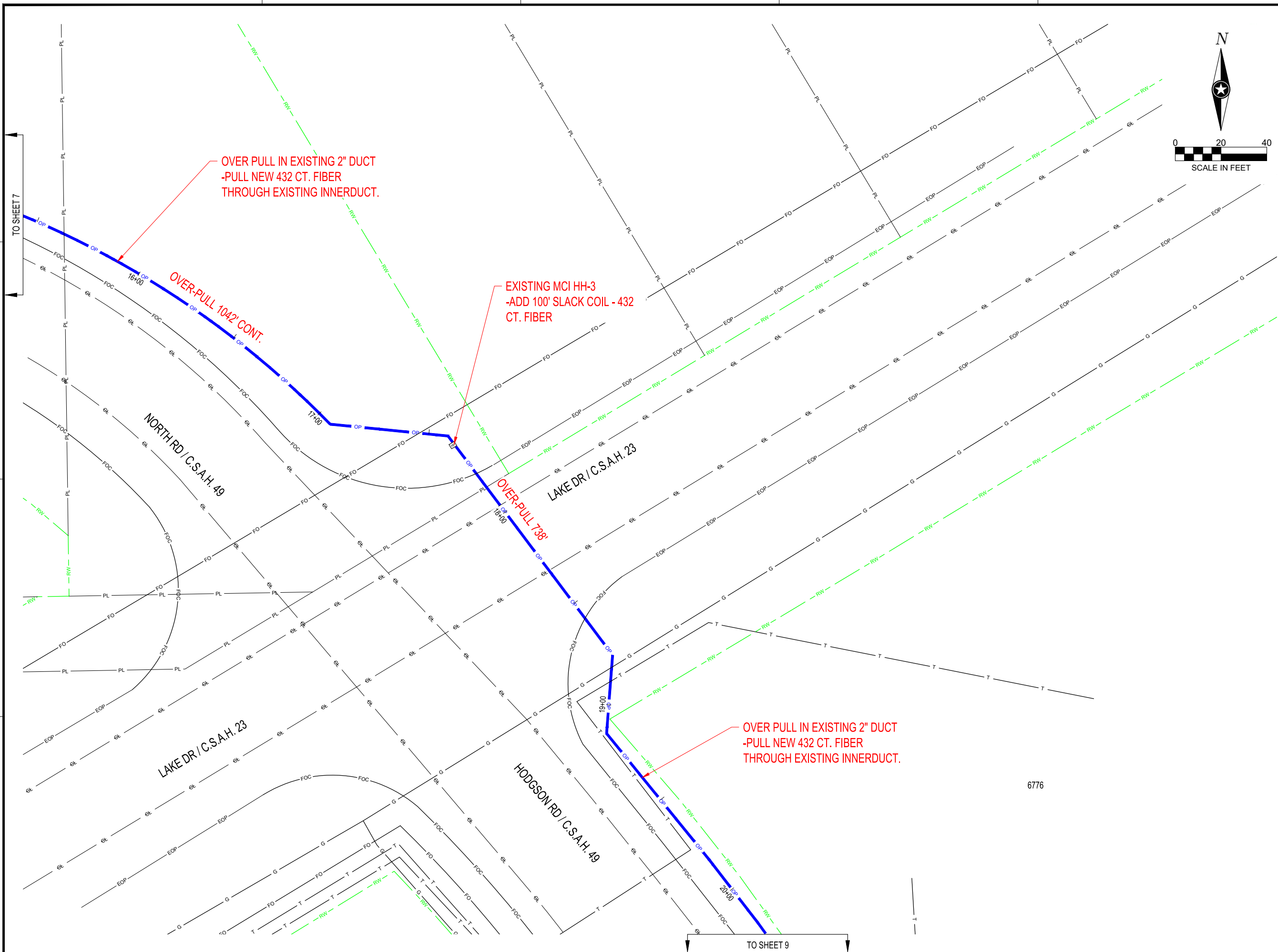
OVER PULL IN EXISTING 2" DUCT
-PULL NEW 432 CT. FIBER
THROUGH EXISTING INNERDUCT.

OVER-PULL 1042' CONT.

NORTH RD / C.S.A.H. 49

TO SHEET 6

TO SHEET 8



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PROJECT
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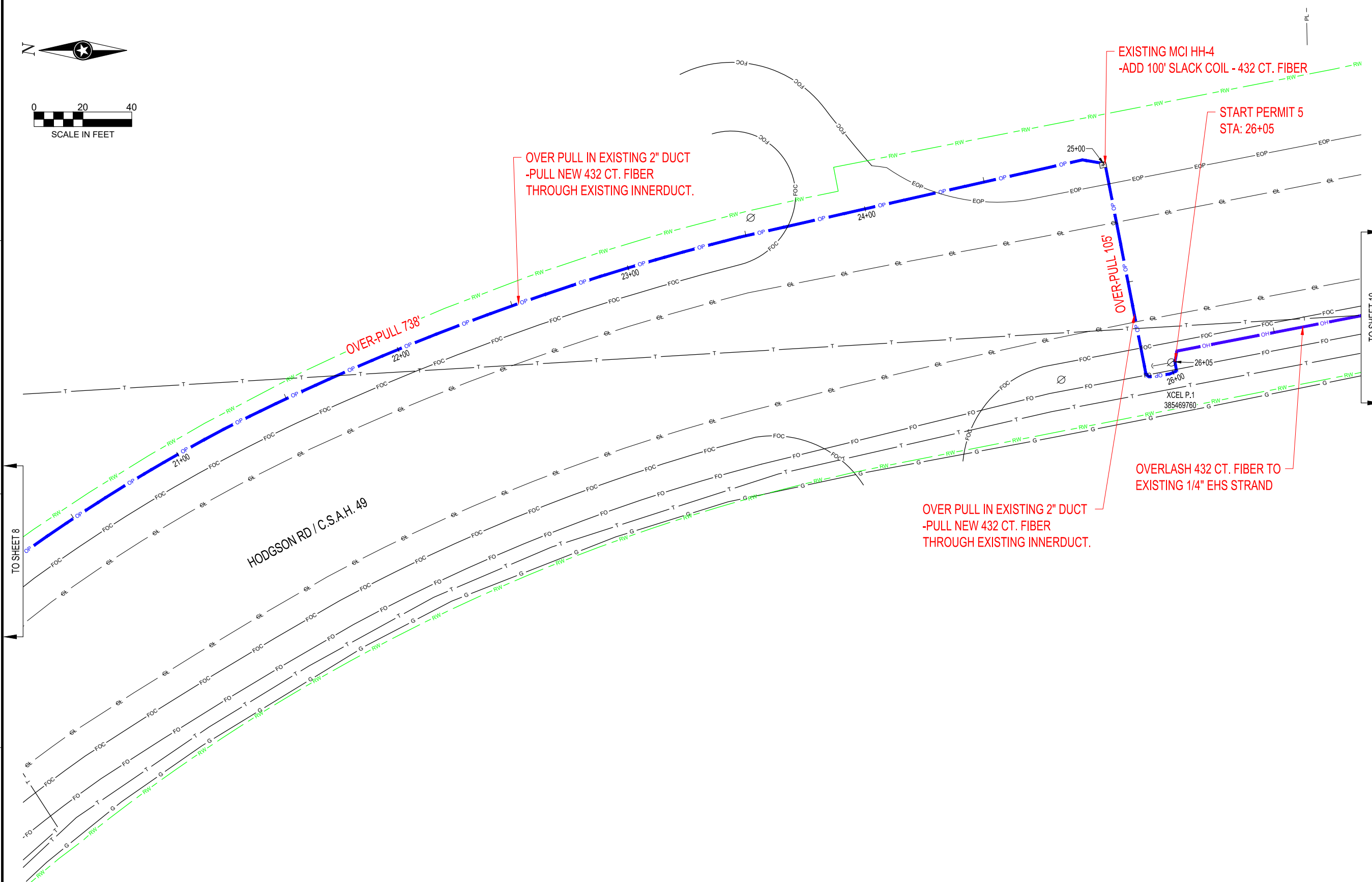
LINO LAKES MN

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TITLE
PLAN SHEET

SHEET
8 OF 30



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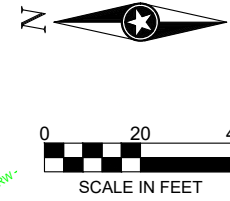
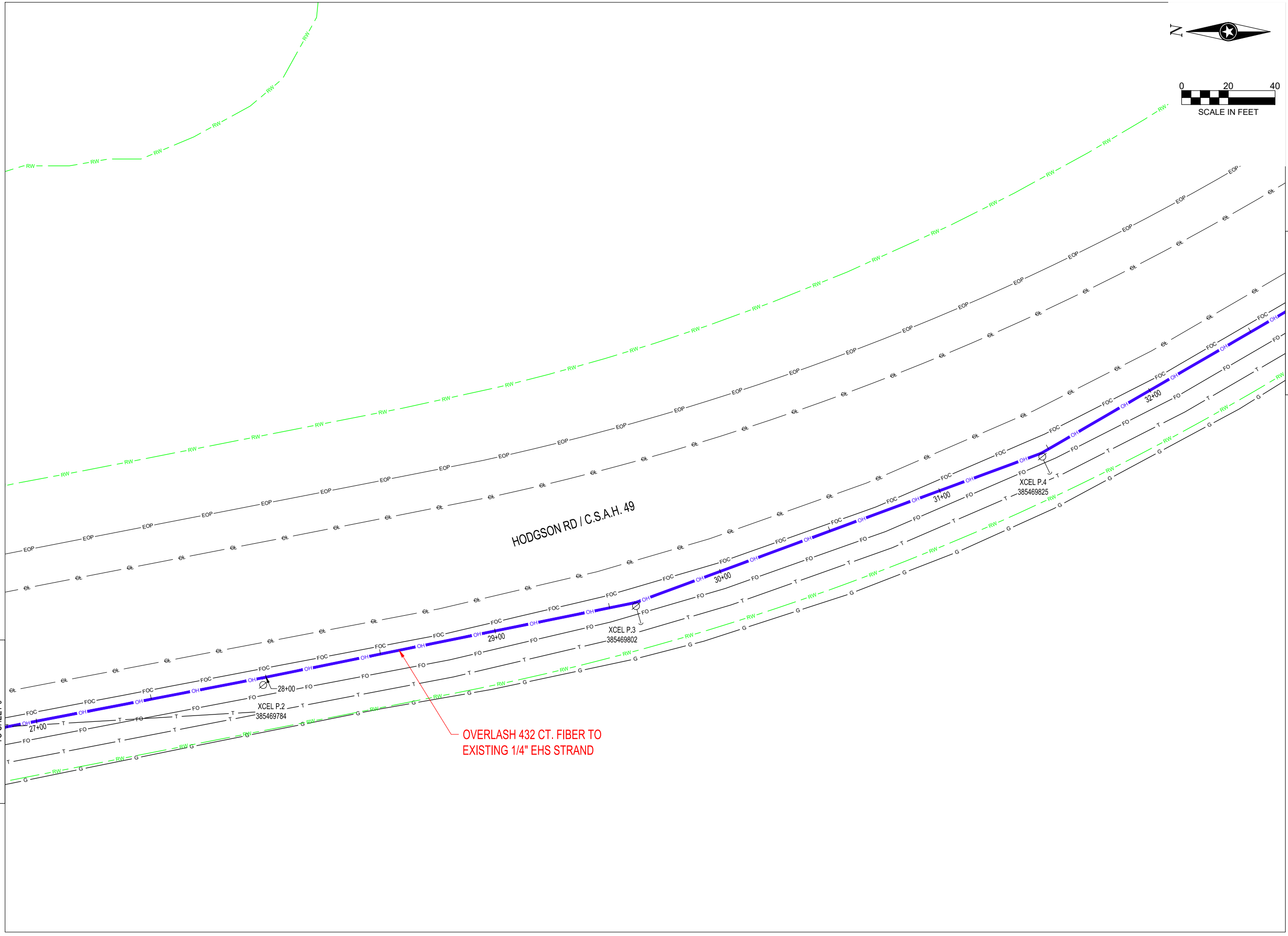
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2211CENR_VZW-POR

LINO LAKES MN

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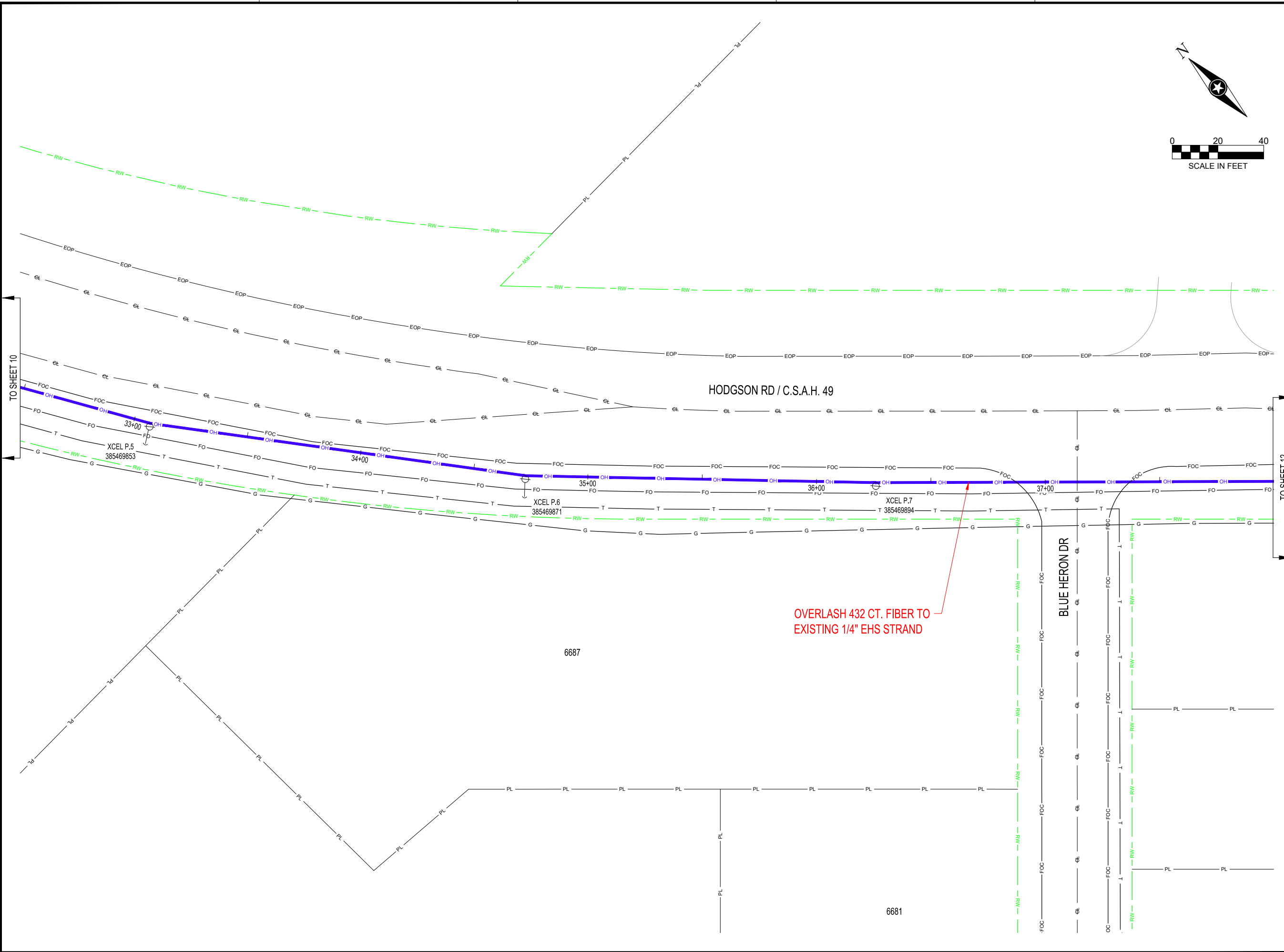
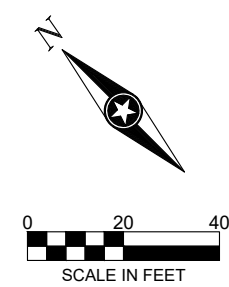
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TITLE
PLAN SHEET

SHEET
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OVERLASH 432 CT. FIBER TO EXISTING 1/4" EHS STRAND

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PROJECT

**124288_MIN RESHNAU
2211CENR_VZW-POR**

LINO LAKES MN

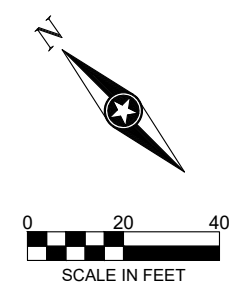
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TITLE
PLAN SHEET

SHEET
11 OF 30

6680



HODGSON RD / C.S.A.H. 49

TO SHEET 11

TO SHEET 13

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PROJECT

124288_MIN RESHENUA
2211CENR_VZW-POR

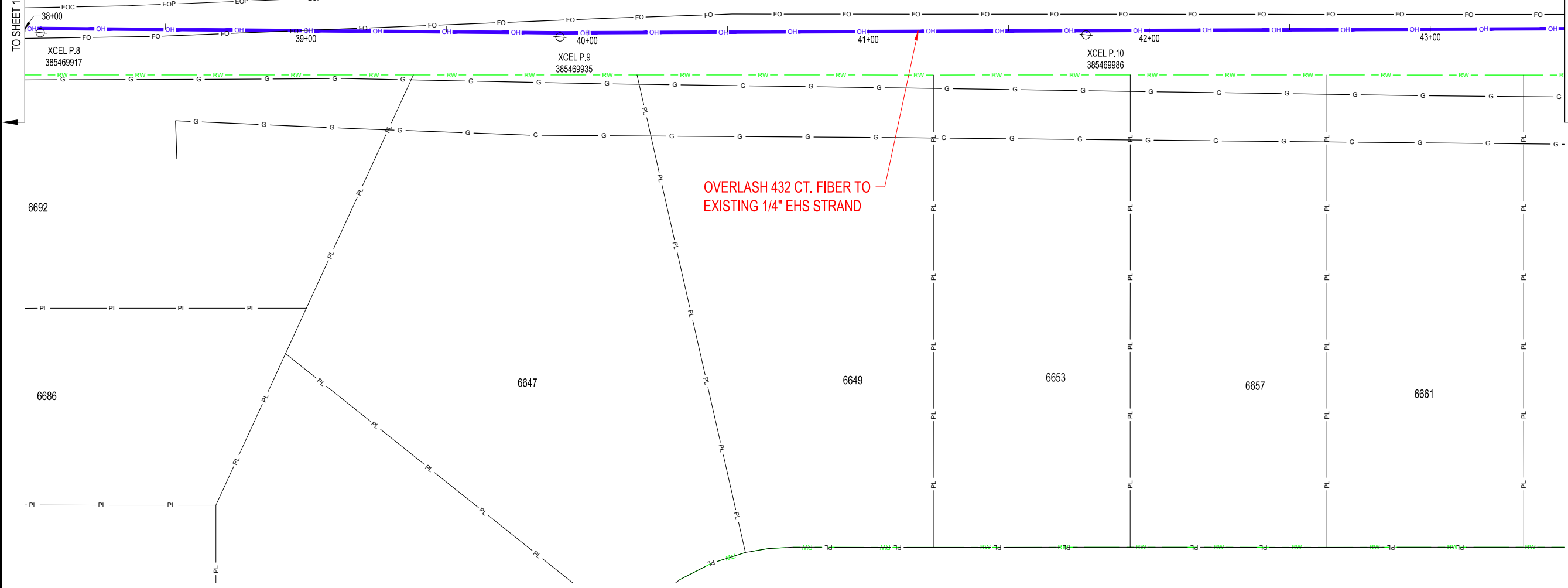
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TITLE
PLAN SHEET

SHEET
12 OF 30



OVERLASH 432 CT. FIBER TO EXISTING 1/4" EHS STRAND

6692

6686

6647

6649

6653

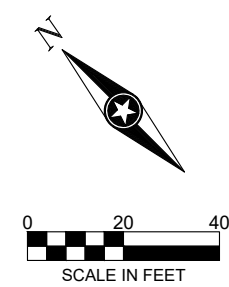
6657

6661

XCEL P.8
385469917

XCEL P.9
385469935

XCEL P.10
385469986



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PROJECT

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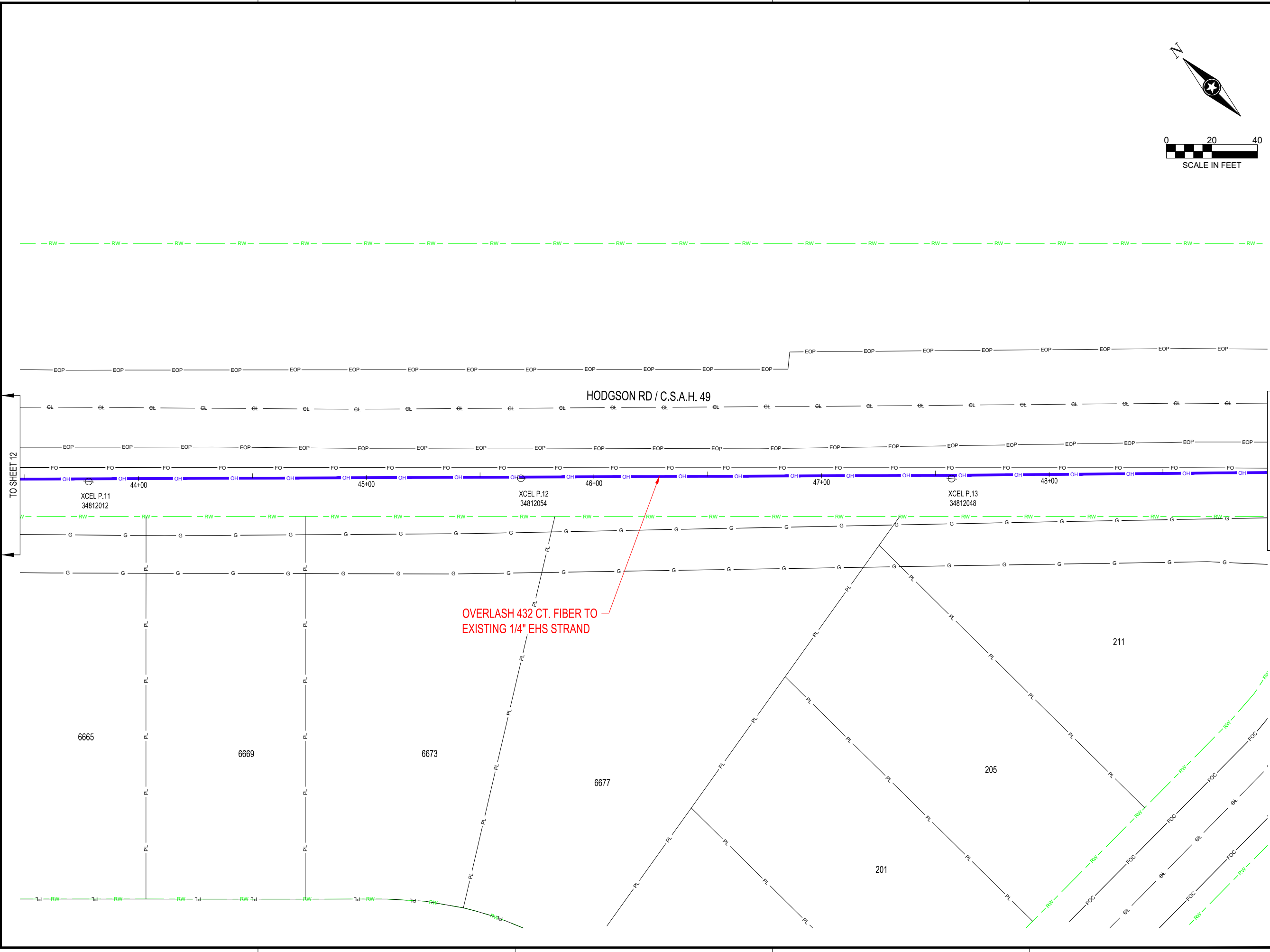
LINO LAKES MN

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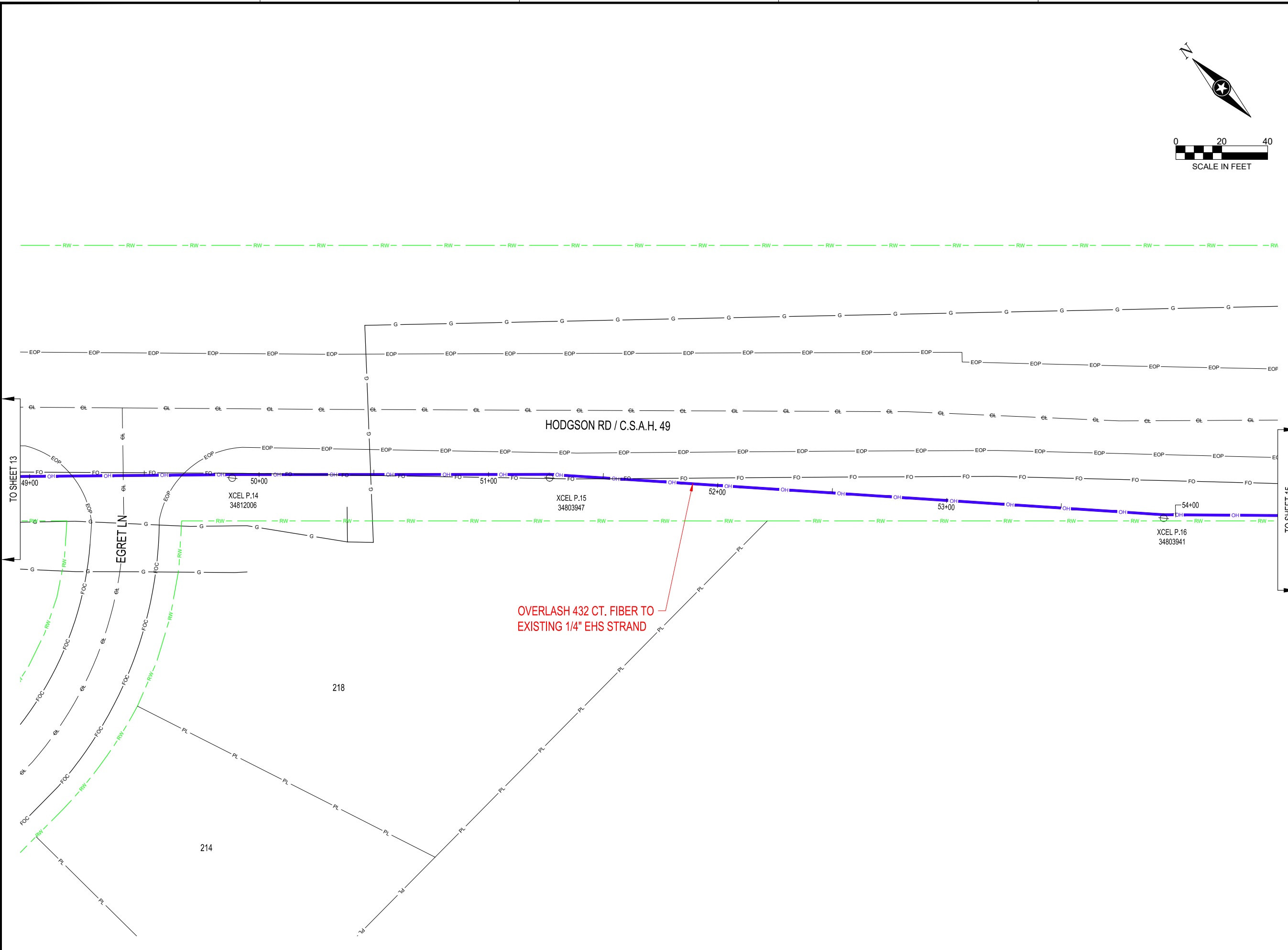
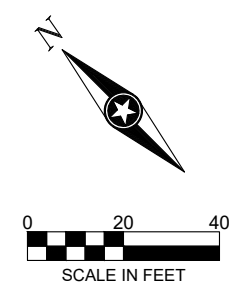
TITLE
PLAN SHEET

SHEET
13 OF 30



TO SHEET 12

TO SHEET 14



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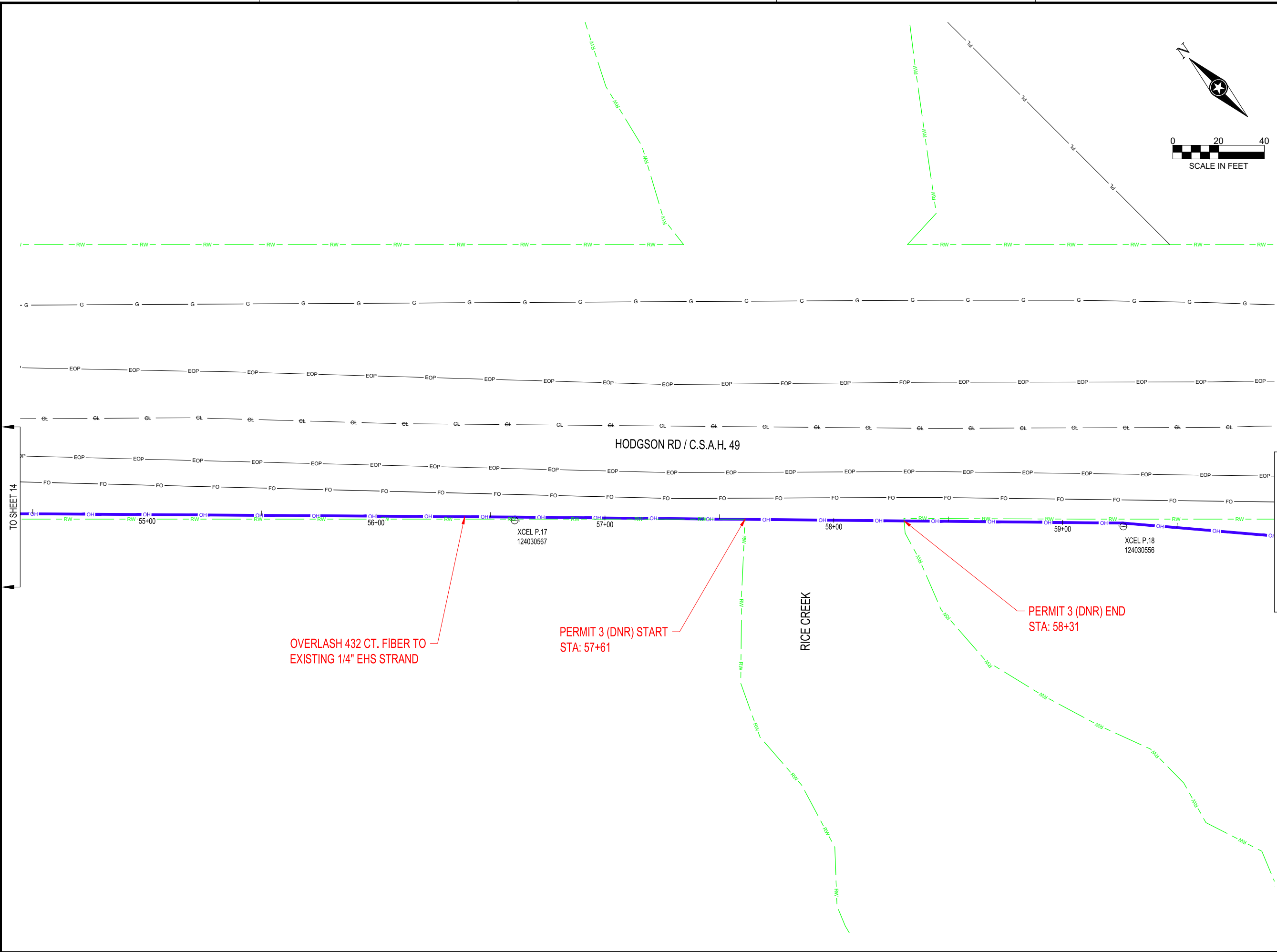
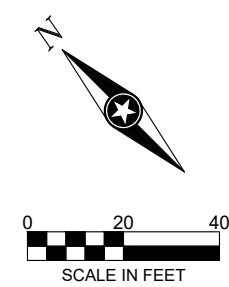
PROJECT
124288_MIN RESHENUA
2211CENR_VZW-POR
 LINO LAKES MN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 23-28346
 FILE NAME 28346-UTILITY
 DRAWN BY JK
 DESIGNED BY CCB
 REVIEWED BY KV
 ORIGINAL ISSUE DATE 02/23/2023
 CLIENT PROJECT NO. 124288

TITLE
PLAN SHEET

SHEET
14 OF 30



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PROJECT

TO SHEET 14

**124288_MIN RESHENAU
2211CENR_VZW-POR**

LINO LAKES MN

TO SHEET 16

OVERLASH 432 CT. FIBER TO EXISTING 1/4" EHS STRAND

PERMIT 3 (DNR) START STA: 57+61

PERMIT 3 (DNR) END STA: 58+31

REVISION SCHEDULE		
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PLAN SHEET

SHEET
15 OF 30



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PROJECT
**124288_MIN RESHENUA
2211CENR_VZW-POR**

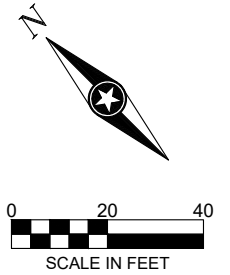
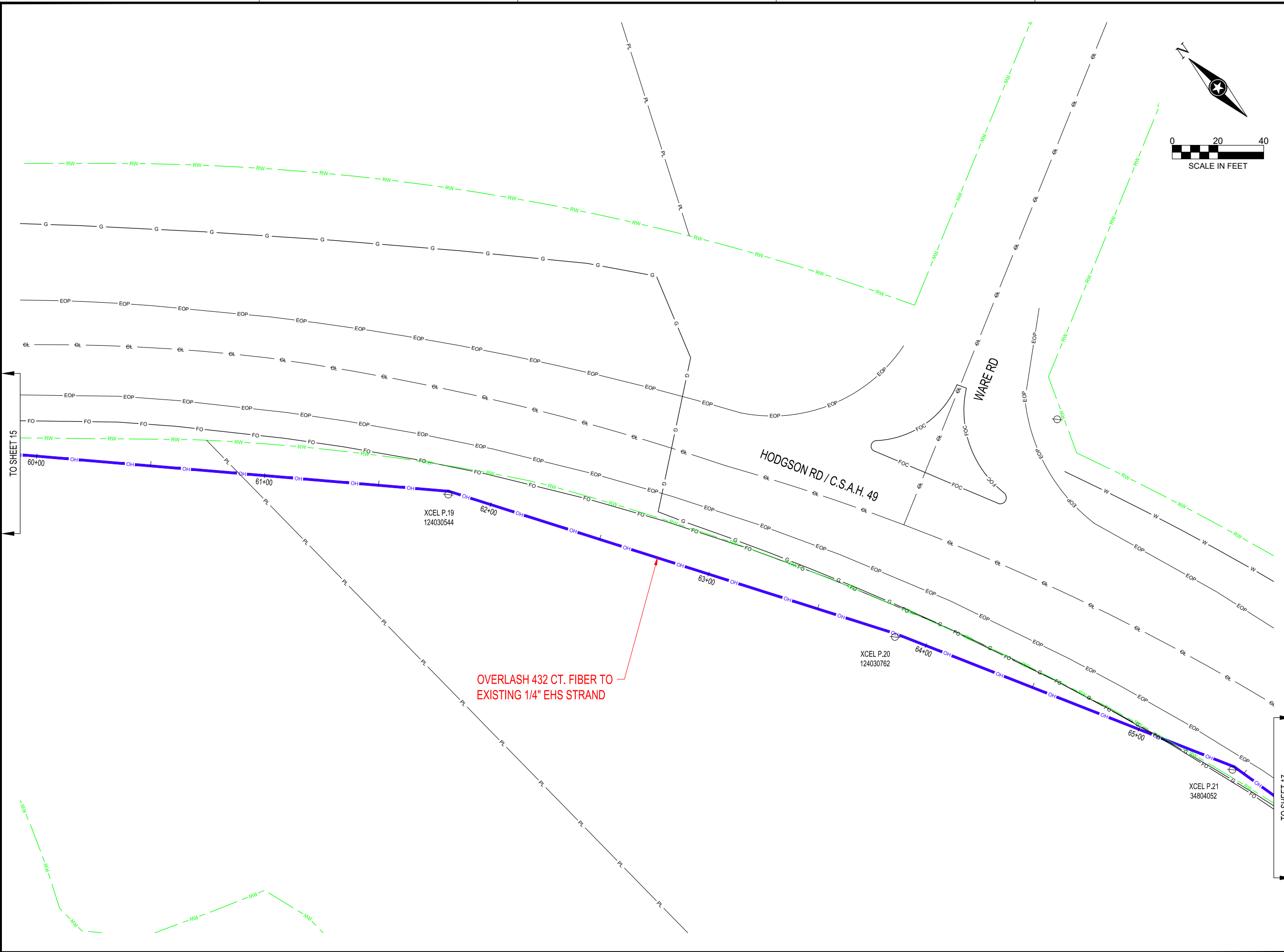
LINO LAKES MN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	23-28346
FILE NAME	28346-UTILITY
DRAWN BY	JK
DESIGNED BY	CCB
REVIEWED BY	KV
ORIGINAL ISSUE DATE	02/23/2023
CLIENT PROJECT NO.	124288

TITLE
PLAN SHEET

SHEET
16 OF 30



TO SHEET 15

TO SHEET 17

XCEL P.19
124030544

XCEL P.20
124030762

XCEL P.21
34804052

OVERLASH 432 CT. FIBER TO EXISTING 1/4" EHS STRAND



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PROJECT

**124288_MIN RESHNAU
2211CENR_VZW-POR**

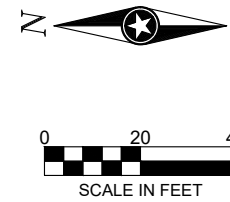
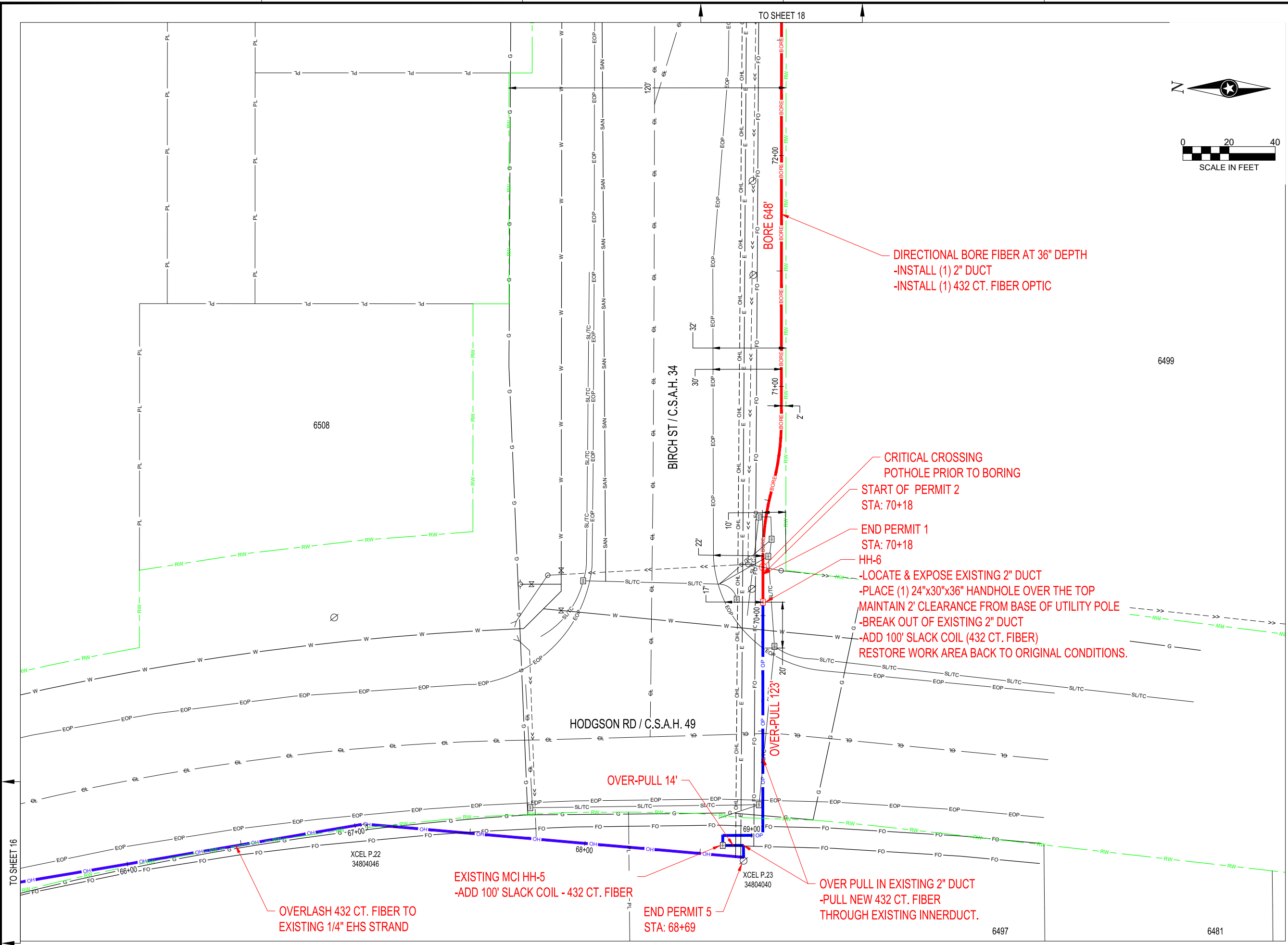
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PLAN SHEET

SHEET
17 OF 30



DIRECTIONAL BORE FIBER AT 36" DEPTH
-INSTALL (1) 2" DUCT
-INSTALL (1) 432 CT. FIBER OPTIC

CRITICAL CROSSING
POTHOLE PRIOR TO BORING
START OF PERMIT 2
STA: 70+18
END PERMIT 1
STA: 70+18
HH-6
-LOCATE & EXPOSE EXISTING 2" DUCT
-PLACE (1) 24"x30"x36" HANDHOLE OVER THE TOP
MAINTAIN 2' CLEARANCE FROM BASE OF UTILITY POLE
-BREAK OUT OF EXISTING 2" DUCT
-ADD 100' SLACK COIL (432 CT. FIBER)
RESTORE WORK AREA BACK TO ORIGINAL CONDITIONS.

OVER-PULL 14'

OVERLASH 432 CT. FIBER TO
EXISTING 1/4" EHS STRAND

EXISTING MCI HH-5
-ADD 100' SLACK COIL - 432 CT. FIBER

END PERMIT 5
STA: 68+69

OVER PULL IN EXISTING 2" DUCT
-PULL NEW 432 CT. FIBER
THROUGH EXISTING INNERDUCT.

BIRCH ST / C.S.A.H. 34

HODGSON RD / C.S.A.H. 49

6508

6499

6497

6481

XCEL P.22
34804046

XCEL P.23
34804040

TO SHEET 16

TO SHEET 18