



SPECIAL SUPPLEMENTAL PERMIT PROVISIONS

It is understood and agreed that approval of this utility permit is subject to applicant's full compliance with the standard supplemental permit provisions, special supplemental provisions found listed below, and the Wisconsin Department of Transportation's *Utility Accommodation Policy (UAP)*, current edition (Also known as Highway Maintenance Manual – Chapter 9, Section 15) <http://www.dot.wisconsin.gov/business/rules/property-uap.htm>

Permit Number: 2019265

1. WisDOT currently has construction projects 4550-04-71 & 4550-03-71 scheduled to start Spring of 2021 on STH 67. All permit work shall be completed prior to April 2021 to avoid conflicts with this construction.
2. Note: Other utility facilities were moved to avoid conflict with the upcoming construction project. If in the field Net-Lec encounters other facilities, they will need to coordinate with WisDOT prior to making the adjustments and provide an updated plan when final placement is complete.
3. DNR Note: During the bore operation, please monitor the bore path across sensitive resources for inadvertent frac-outs. Make sure the contractor has appropriate materials on site to contain and clean up a frac-out in waterways if one should occur.
4. If shoulder closure encroaches over the travel way edge line, a lane closure with flagging should be utilized instead.
5. A temp full roadway closure is needed for any OH line crossings of STH 32. 2 flagger operation for the OH line crossing can be done. All traffic must be stopped until the OH line has been secured.
6. Arch sites exist along the project corridor. Coordination required with the State Historical Society. Contact Katie Kaliszezewski at 608-264-6508 or katie.kaliszezewski@wisconsinhistory.org
7. (HMM 09-15-60-4.2) Send the LCS request to WisDOT for review and approval at the appropriate time in accordance with the following advance notifications guidelines:
 - a. 7 calendar days for any freeway ramp, lane or shoulder closure
 - b. 7 calendar days for full roadway closure of any state highway (detour involved)
 - c. 7 calendar days for closures that may impact oversize/overweight (OSOW) permits
 - d. 3 business days for closures non-freeway or shoulder closuresContact Josh Falk, (920) 366-8033 or joshua.falk@dot.wi.gov.
8. (HMM 09-15-45-3.2) Manual tracking is prohibited over traffic lanes. The bore head can be tracked up to the shoulder edge or back of curb.
9. The depth of bury for underground facilities crossing the right of way shall be a minimum of 36 inches as measured from a straight line connecting the lowest points of the finished ground or pavement surface on each side of the right of way to the top of the facility at the time of installation.
10. The depth of bury for underground facilities in the right of way shall be a minimum of 36 inches as measured from the finished ground surface to the top of the facility at the time of installation.
11. (HMM 09-15-25-2.0) Bore shall be perpendicular to the highway, and bore pits established no closer to the highway than the toe of in slope or back of curb.
12. (HMM 09-15-45-5.0) Restore any curb, gutter, pavement, shoulder, sidewalk, driveway, gravel base, ballast, or other highway element disturbed to the qualities, grades, compactions, conditions, etc., in accordance with WisDOT's [Standard Specifications for Highway and Structure Construction, current edition](#).



APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY

Wisconsin Department of Transportation

DT1553 7/2017 s. 66.0831, 84.08, 85.15, 86.07(2)(a), 86.16, 182.017 and other applicable Wis. Stats.

1. Applicant (Utility facility owner) Name and Address Net-Lec LLC 450 Security Blvd Green Bay, WI. 54313		2. Work Start Date Upon Approval 9/1/2019		3. Work Finish Date★ 12/31/2020 9/1/2020		6. Location Description (¼ section, section, town, range; provide plat and/or location maps) T16N, R21E, SECS 6,7,8,17,18,20,28,29 & 33 T15N, R21E SECS 4 & 3	
		4. Is the work due to a WisDOT highway project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Applicant Work Order (If any)		7. Work Location (List all that apply) Town: <u>See page 2</u> Village: <u>Elkhart Lake</u> City: _____ County: <u>Sheboygan</u>	
9. Facility Type (Check all that apply) and Description (Size, material, voltage, pressure, # fibers, etc.) <input checked="" type="checkbox"/> Comm: <u>1-96ct fiber optci</u> <input type="checkbox"/> Electric: _____ <input type="checkbox"/> Gas/Oil: _____ <input type="checkbox"/> Water: _____ <input type="checkbox"/> Sewer: _____ <input type="checkbox"/> Casing: _____ <input checked="" type="checkbox"/> Conduit: <u>2-1.25" HDPE</u> <input type="checkbox"/> _____ <input type="checkbox"/> Transmission <input type="checkbox"/> Service <input checked="" type="checkbox"/> Distribution <input type="checkbox"/> Service (ESCP)		12. Proposed Work Methods (Check all that apply) <input type="checkbox"/> Trench <input checked="" type="checkbox"/> Plow <input type="checkbox"/> Place fill <input type="checkbox"/> Rock blasting <input type="checkbox"/> Place cable <input type="checkbox"/> Open cut in conduit pavement <input type="checkbox"/> Hand/mechanical excavation Bore: <input type="checkbox"/> Hydraulic (Auger/Jack/Tunnel) <input type="checkbox"/> Pneumatic (Mole) <input checked="" type="checkbox"/> Directional 1 (Manually tracked) <input type="checkbox"/> Directional 2 (Computer tracked) <input type="checkbox"/> Unknown (At this time)		13. Work Zone Description (Check all that apply). (Provide relevant diagram(s) with application.) <input type="checkbox"/> Not applicable <input type="checkbox"/> Full road closure: detour <input checked="" type="checkbox"/> Full road closure: temporary <input type="checkbox"/> Lane closure: without flagging <input type="checkbox"/> Lane closure: with flagging <input checked="" type="checkbox"/> Lane encroachment (2 feet or less) <input checked="" type="checkbox"/> Intersection/roundabout <input checked="" type="checkbox"/> Shoulder/parking lane closure <input type="checkbox"/> Railroad crossing Freeway/expressway location <input type="checkbox"/> Off shoulder: < 30' off white line <input type="checkbox"/> Off shoulder: ≥ 30' off white line <input type="checkbox"/> Near right-of-way line or fence Non-freeway/expressway location <input checked="" type="checkbox"/> Off shoulder: < 15' off white line <input checked="" type="checkbox"/> Off shoulder: ≥ 15' off white line <input type="checkbox"/> Back of curb: < 2' behind <input type="checkbox"/> Back of curb: ≥ 2' behind		8. Highway (List all that apply) WIS: <u>67</u> US: _____ Interstate: _____ 14. Is the facility near a survey monument? HMM 09-15-35 If yes, call (866) 568-2852 or email geodetic@dot.wi.gov . <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 15. Will appurtenances be installed with the facility? If yes, provide a description and/or specification for each item. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 16. Trans 401 project designation? If Major, provide a formal erosion control plan. HMM 09-15-55 <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor 17. Are any environmental approvals, certifications or permits required from other regulatory agencies, including tribal governments? If yes, provide a copy of each item. If no, provide proof of other agency coordination as needed. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
10. Facility Orientation (Check all that apply) <input checked="" type="checkbox"/> Underground <input checked="" type="checkbox"/> Overhead <input checked="" type="checkbox"/> Crossing <input checked="" type="checkbox"/> Parallel <input type="checkbox"/> OSOW high clearance route <input type="checkbox"/> Structure attachment <input type="checkbox"/> Scenic easement (Off right-of-way)		Install or attach to poles/towers: <input type="checkbox"/> New <input checked="" type="checkbox"/> Existing <input checked="" type="checkbox"/> Guys <u>See page 2</u> (~Diameter) (Name of existing owner) (Provide details for all guy-wires on plan sheets) Pothole (Subsurface excavation): <input type="checkbox"/> Air <input type="checkbox"/> Water Tree/vegetation control: <input type="checkbox"/> Trim (Prune) <input type="checkbox"/> Plant <input type="checkbox"/> Remove (Cut) <input type="checkbox"/> Mow <input type="checkbox"/> Chemically treat					
11. Work Types (Check all that apply) <input checked="" type="checkbox"/> New facility <input type="checkbox"/> Remove <input type="checkbox"/> Joint install <input type="checkbox"/> Maintenance <input type="checkbox"/> Improve or repair existing <input type="checkbox"/> Discontinue, left in place							

★ Includes permanent restoration. If the permitted work has not started by the "Work Finish Date", this permit is null and void. If the permitted work has started, but has not been completed by the "Work Finish Date", the work shall not be completed unless authorized through an approved written time extension or a subsequent permit. **ANY PERMIT ISSUED IS REVOCABLE.**

18. Utility Person Responsible for Construction Rick Vincent		Telephone Number 920-617-7316		It is understood and agreed that WisDOT approval is subject to the applicant's full compliance with all pertinent statutes, as well as any regulations and rules of other jurisdictional agencies (which may be more restrictive), any supplemental permit provisions, and WisDOT's Utility Accommodation Policy , current edition.	
19. Utility or Project 24/7 Emergency Contact		Telephone Number			
20. Provide company name and address of utility authorized representative if not employed by the applicant. Net-Lec LLC 450 Security Blvd Green Bay, WI. 54313		Rick Vincent		8/14/2019	
		(Utility Authorized Representative Signature – If filled via computer, brush script font)		(Date)	
		Senior Network Operations MGR		rick.vincent@nsight.com	
		920-617-7316			
		(Title)		(Telephone Number)	
				(Email Address)	
21. Provide additional work details, if needed (use back page or include separate pages)		<p>This permit does not transfer any land, or give, grant or convey any land right, right in land, or easement in WisDOT right-of-way. It is not assignable or transferrable. If a utility facility changes ownership, this permit terminates. The new owner must obtain a permit in order to operate and maintain the facility in WisDOT right-of-way.</p>			

For Wisconsin Department of Transportation Use Only

<input checked="" type="checkbox"/> UTILITY SHALL NOTIFY WisDOT REPRESENTATIVE LISTED BELOW 3 DAYS BEFORE STARTING ANY WORK: Region contact, office address, telephone number and email address Linda Skaleski WisDOT, Northeast Region 944 Vanderperren Way Green Bay, WI 54304 920-492-4166 dotdtsdneutilitycoordination@dot.wi.gov		<input checked="" type="checkbox"/> Review All Supplemental Permit Provisions <input checked="" type="checkbox"/> Revisions Made to Drawings or Other Pages <input checked="" type="checkbox"/> Lane Closure System notification required HMM 09-15-60 <input type="checkbox"/> Insurance or performance bond required <input type="checkbox"/> Joint installation: See permit(s) # _____ <input type="checkbox"/> Private utility (Non-public ownership and/or use) <input type="checkbox"/> Expedited Service Connection Permit <input type="checkbox"/> This permit voids & supersedes # _____ issued: _____ <input type="checkbox"/>		Application Received 8/14/2019 Application Completed 4/30/2020 Permit Issued 5/4/2020 Permit Extended Permit Amended	
				Permit Number 2019265	

(WisDOT Improvement Project ID Numbers, if applicable)

(WisDOT Authorized Representative Signature – If filled via computer, Brush Script font)

APPLICATION/PERMIT TO CONSTRUCT, OPERATE AND MAINTAIN UTILITY FACILITIES ON HIGHWAY RIGHT-OF-WAY *(continued)*

Wisconsin Department of Transportation

DT1553

Use this section to provide information that does not fit on front page

Net-Lec placing (2) 1.25" HDPE conduits with one containing a 96ct fiber optic cable via plow/directional drill in the buried sections. Placing (1) 96ct fiber optic cable in the aerial sections. Construction prints included.

Power Companies: Kiel Utilities, WE Energies, Plymouth Utilities

Townships: Schleswig, Rhine, and Plymouth

INDEMNIFICATION

This Applicant shall save and hold the State, its officers, employees, agents, and all private and governmental contractors and subcontractors with the State under Chapter 84 Wisconsin Statutes harmless, as allowed by Wisconsin law, from actions of any nature whatsoever (including any by Applicant itself) which arise out of, or are connected with, or are claimed to arise out of or be connected with any of the work done by the Applicant, or the construction or maintenance of facilities by the Applicant, pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way, (1) while the Applicant is performing its work, or (2) while any of the Applicant's property, equipment, or personnel, are in or about such place or the vicinity thereof, or (3) while any property constructed, placed or operated by or on behalf of Applicant remains on the State's property or right-of-way pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way; including without limiting the generality of the foregoing, all liability, damages, loss expense, claims, demands and actions on account of personal injury, death or property loss to the State, its officers, employees, agents, contractors, subcontractors or frequenters; to the Applicant, its employees, agents, contractors, subcontractors, or frequenters; or to any other persons, whether based upon, or claimed to be based upon, statutory (including, without limiting the generality of the foregoing, worker's compensation), contractual, tort, or whether or not caused or claimed to have been caused by active or inactive negligence or other breach of duty by the State, its officers, employees, agents, contractors, subcontractors or frequenters; Applicant, its employees, agents, contractors, subcontractors or frequenters; or any other person.

Without limiting the generality of the foregoing, the liability, damage, loss, expense, claims, demands and actions indemnified against shall include all liability, damage, loss, expense, claims, demands and actions for damage to any property, lines or facilities placed by or on behalf of the Applicant pursuant to this permit or any other permit issued by the State for location of property, lines or facilities on highway right-of-way in the past or present, or that are located on any highway or State property or right-of-way with or without a permit issued by the State, for any loss of data, information, or material; for trademark, copyright or patent infringement; for unfair competition or infringement of personal or property rights of any kind whatever. The Applicant shall at its own expense investigate all such claims and demands, attend to their settlement or other disposition, defend all actions based thereon and pay all charges of attorneys and all other costs and expenses of any kind arising from any such liability, damage, loss, claims, demands and actions.

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Any transfer, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit shall not release Applicant from any of the indemnification requirements of this permit, unless the State is notified of such transfer in writing. Any acceptance by any other person or entity, whether voluntary or involuntary, of ownership or control of any property constructed, placed or operated by or on behalf of the Applicant that remains on the State's property or right-of-way pursuant to this permit, shall include acceptance of all of the indemnification requirements of this permit by the other person or entity receiving ownership or control.



STANDARD SUPPLEMENTAL PERMIT PROVISIONS

For Wisconsin Department of Transportation Utility Facility Permits

Acronyms used in this document:

- BMPs: Best Management Practices
- R/W: Right-of-Way
- UAP: Utility Accommodation Policy
- HMM: Highway Maintenance Manual
- WisDOT: Wisconsin Department of Transportation

1. GENERAL WORK REQUIREMENTS

- As required by Wisconsin Statute 182.0175, when filing your Diggers Hotline request ensure that this WisDOT Permit Number is in the Remarks Section of the Diggers Hotline Ticket.
- The Permittee shall bore under all driveways, private entrances, wetlands, culverts, and all roadways.
- The Permittee is responsible for obtaining any permits from the Department of Natural Resources, or any other agency that may have an interest in the area impacted by the construction of the utility facility.

2. **WORK DUE TO A WISDOT HIGHWAY PROJECT.** This approved permit constitutes acceptance that the work in this permit is compatible with permit requirements. This approved permit is NOT a Work Plan Approval/Start Work Notice as required by Trans 200.05(07). This approved permit is NOT a Work Plan Approval/Start Work Notice for a non-Trans 220 project. This approved permit does NOT approve or authorize an agreement between WisDOT and the Permittee for compensable work due to a WisDOT highway project.

3. **PERMIT TERM.** For as long as the Permittee continues to own, operate and maintain this utility facility within WisDOT R/W in accordance with the terms of its permit and WisDOT's UAP, this permit shall be valid.

4. **REVOCATION BY WISDOT.** WisDOT may revoke this permit if its own use of the R/W would be facilitated by the full or partial relocation of the Permittee utility facility, and shall provide the Permittee with written notice prior to revocation. At which time WisDOT shall work with the Permittee to find a suitable replacement area on R/W near the terminated location if possible. WisDOT shall not compensate the Permittee to move its utility facility in keeping with WisDOT's policy on compensable / non-compensable utility facility moves.

5. **TERMINATION BY PERMITTEE.** The Permittee may terminate this permit upon 60 days written notice to WisDOT. Upon such termination, the Permittee shall either remove its communication cable facility from the R/W, or abandon it in-place provided it does not constitute an environmental hazard.

6. **HOLIDAY WORK RESTRICTIONS for 2019.** The Permittee shall not work on January 1, May 27, July 4, September 2, and November 28, and December 25.

7. **WORK-TIME RESTRICTIONS.** Weekday work is from sunrise to sunset. Weekend work may be allowed upon prior approval from WisDOT. No work shall take place during nighttime hours unless authorized by WisDOT.

8. **TRAFFIC CONTROL.** All work zone traffic control will be in accordance with the Wisconsin Manual on Uniform Traffic Control Devices. Additional guidance is available from WisDOT through a booklet entitled, *Work Zone Safety, Guidelines for Construction, Maintenance, and Utility Operations* or from HMM 09-15-60.

9. **WORK AREA PROTECTION DURING NON-WORK TIMES.** The Permittee may store vehicles, equipment, or materials on the non-freeway R/W provided they are placed as close to the non-freeway R/W line as possible, but no less than 30 feet from the edge of the nearest travel lane. If vehicles, equipment, or materials must be parked or stored within an area that is less than 30 feet from the edge of the nearest travel lanes, appropriate temporary concrete or water-filled barriers, signing, and devices shall be utilized. The Permittee shall ensure that any excavations left open during non-work times are well marked and secured from public intrusion.

The primary objective will be maintenance of a safe traffic and working environment. No operation shall to any extent pose any hazard neither to, nor in any manner influence traffic at any time.

All vehicles used to conduct the work operations will be equipped with conspicuously visible roof-mounted revolving or strobe lights. These lights shall be in operation just prior to and during the time the work operations are being conducted. Hazard warning lights on the vehicles must also be operating.

10. **WORK RESTRICTIONS.** For the purposes of placement of these facilities, as stated with this permit request, the State security fence shall not be opened or damaged.

11. **CLEAR ZONE / DRAINAGE INTERFERENCE.** No topsoil or other excavated piles of soil shall be deposited in any manner that interferes with the clear zone or regular drainage patterns within the highway.

As much as possible, all equipment, operations, and spoil material should be situated or accomplished off of the highway.

12. **EROSION CONTROL.** The Permittee shall use the appropriate erosion control BMPs to contain soil directly at the site to prevent disturbed soil from getting into nearby waterways and wetlands. All appropriate erosion control devices shall be in place **prior to starting construction activities**. Temporary seeding shall be used as necessary after rough grading and before completion of the project. The Permittee shall ensure that erosion control BMPs used to protect restored areas remain in place until replacement vegetation achieves sustained growth.

The Permittee shall take all precautions necessary to prevent mud, dirt, or other debris from being deposited onto the shoulder or pavement of all access roads or highways. Any materials deposited on the shoulder or pavement shall be removed immediately. Ruts may remain as is if the Permittee is accessing the R/W from private property, but appropriate erosion control BMPs shall be used to contain disturbed soil at the site.

13. **R/W RESTORATION.** Upon completion of the project a variation of erosion control measures will be required to restore the area that has been disturbed allowing it to return to the manner it was in previous to the construction. All disturbed sites will require a seed mixture that includes a quick sprouting variety with fertilizer and mulch. Other possibilities that may have to be considered are Geotextile fabric, e-mat, and stone ditch checks.

The Permittee is responsible to assure that erosion control measures used to protect restored areas remain in place until replacement vegetation achieves sustained growth.

The basic drainage pattern of the highway shall remain undisturbed by the permitted work. Upon project completion, all spoils, debris, refuse, and waste resulting from the permitted work shall be removed from the work site. Should future maintenance work on the Permittee's utility facility result in the disturbance of the existing R/W, the Permittee shall restore the R/W to its original condition as soon as possible.

Any works or operations not in full compliance herewith shall justify an order by any inspecting officer of WisDOT to cease all further progress on the work, and to accomplish all restorations of disturbed areas, including full restorations of the pavement

Upon completion of the work, all disturbed areas shall be restored according to requirements stated in the Utility Accommodation Policy, HMM 09-15-65, and in a manner satisfactory to WisDOT

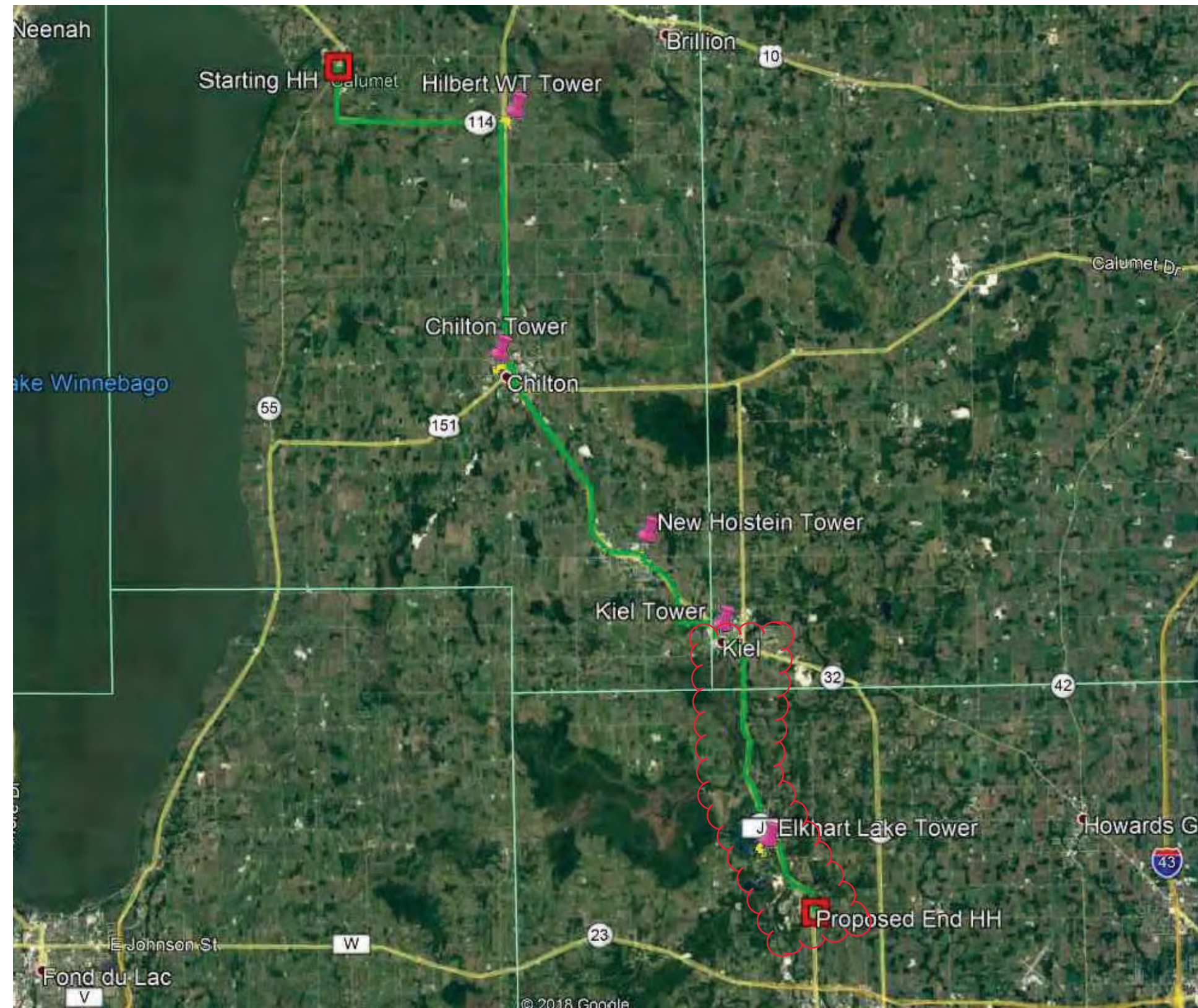
14. **NOTIFICATIONS / CONTACTS.** Notify Northeast Region permit coordinator/field inspector, by phone or email, three days prior to the start of construction. Notify Diggers' Hotline 800/242-8511 at least three working days prior to the start of any excavation. It is the obligation of the permittee to determine the location of, and avoid any damage to, the pre-existing lines and facilities of others.

15. **TREES.** Prevent the spread of oak wilt by treating all cut surfaces and abrasions sustained **between April 1 and September 30** by healthy oak trees and saplings with a thorough application of tree paint immediately upon discovering a wound. Between these dates, also paint the cut surfaces of the stumps of all healthy oak trees and saplings immediately after cutting, whether remaining in place or grubbed.





This permit approves the installation of facilities as shown on the diagram provided. If the above assigned position is not feasible, an alternate location of facilities shall be approved prior to installing the facilities by contacting the permit coordinator approving the permit. If the facility is later discovered to be at a location other than that designated by the permit you may be required to relocate the facility at your expense.

This permit is subject to the attached drawings, these supplemental provisions, and WisDOT's Utility Accommodation Policy. New supplemental provisions may be added, or the existing ones deleted or amended in the future as different issues arise during the installation, operation and maintenance of the permittee's facilities.

NET-LEC, LLC
SHERWOOD TO PLYMOUTH
NL18-47
FIBER BUILD
AREA MAP

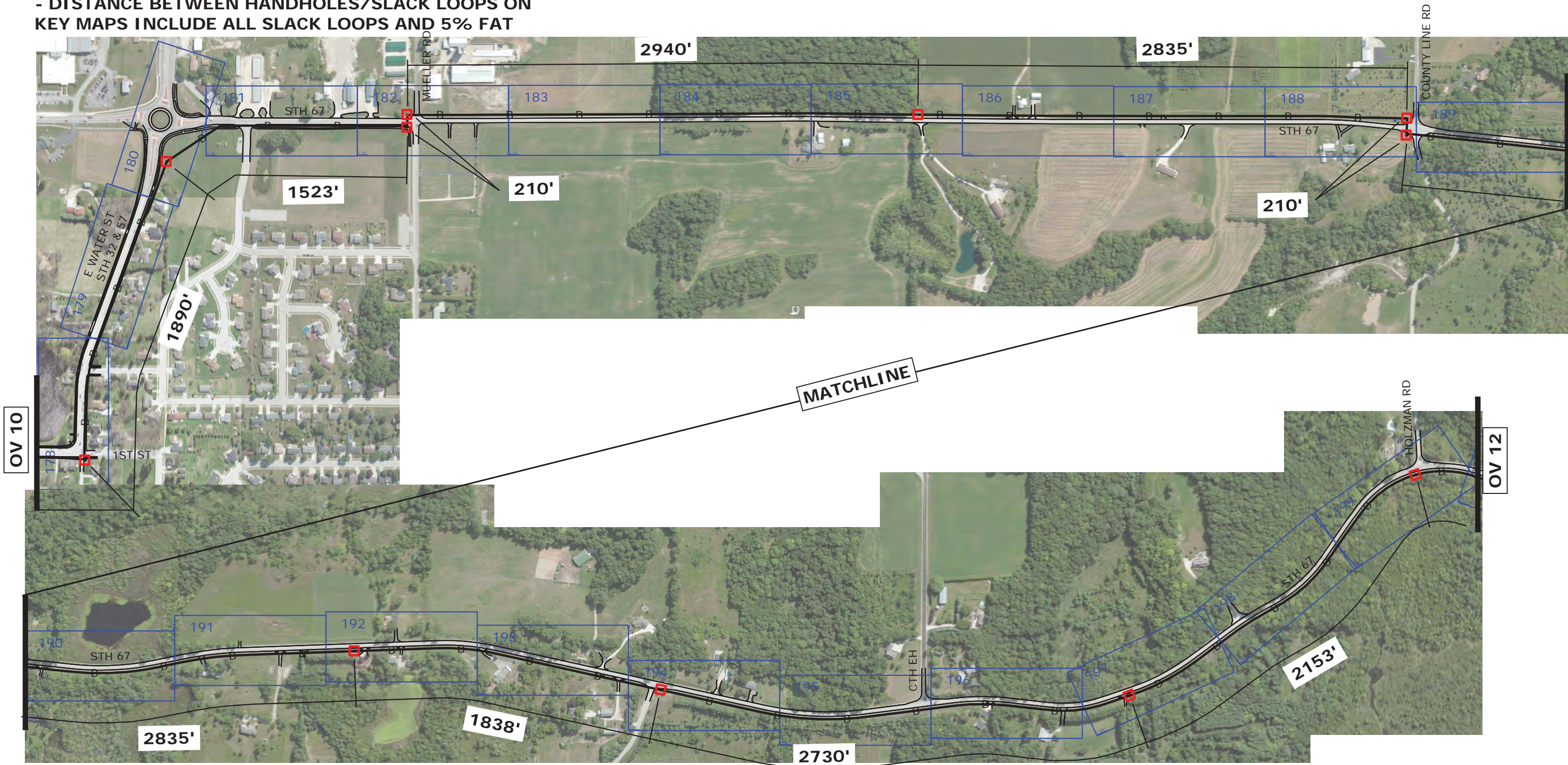


SYMBOL LEGEND





-  - PROPOSED HANDHOLE
-  - BURIED CABLE ROUTE
-  - AERIAL CABLE ROUTE
-  - PROPOSED AERIAL SLACK LOOP

OVERVIEW 11 OF 14

NOTE:
- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON
KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT



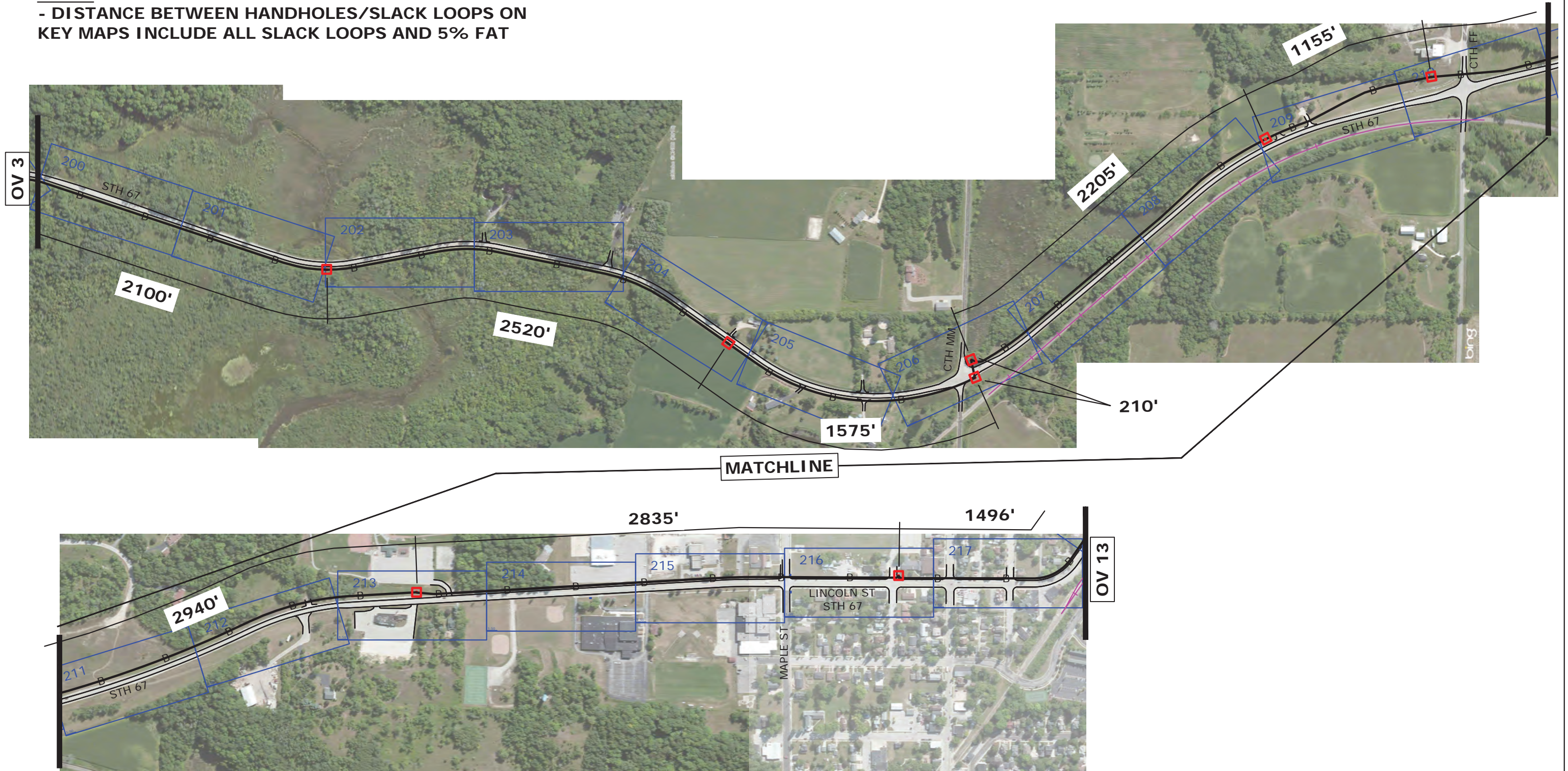
SYMBOL LEGEND

-  - PROPOSED HANDHOLE
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NOTE:

- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT**

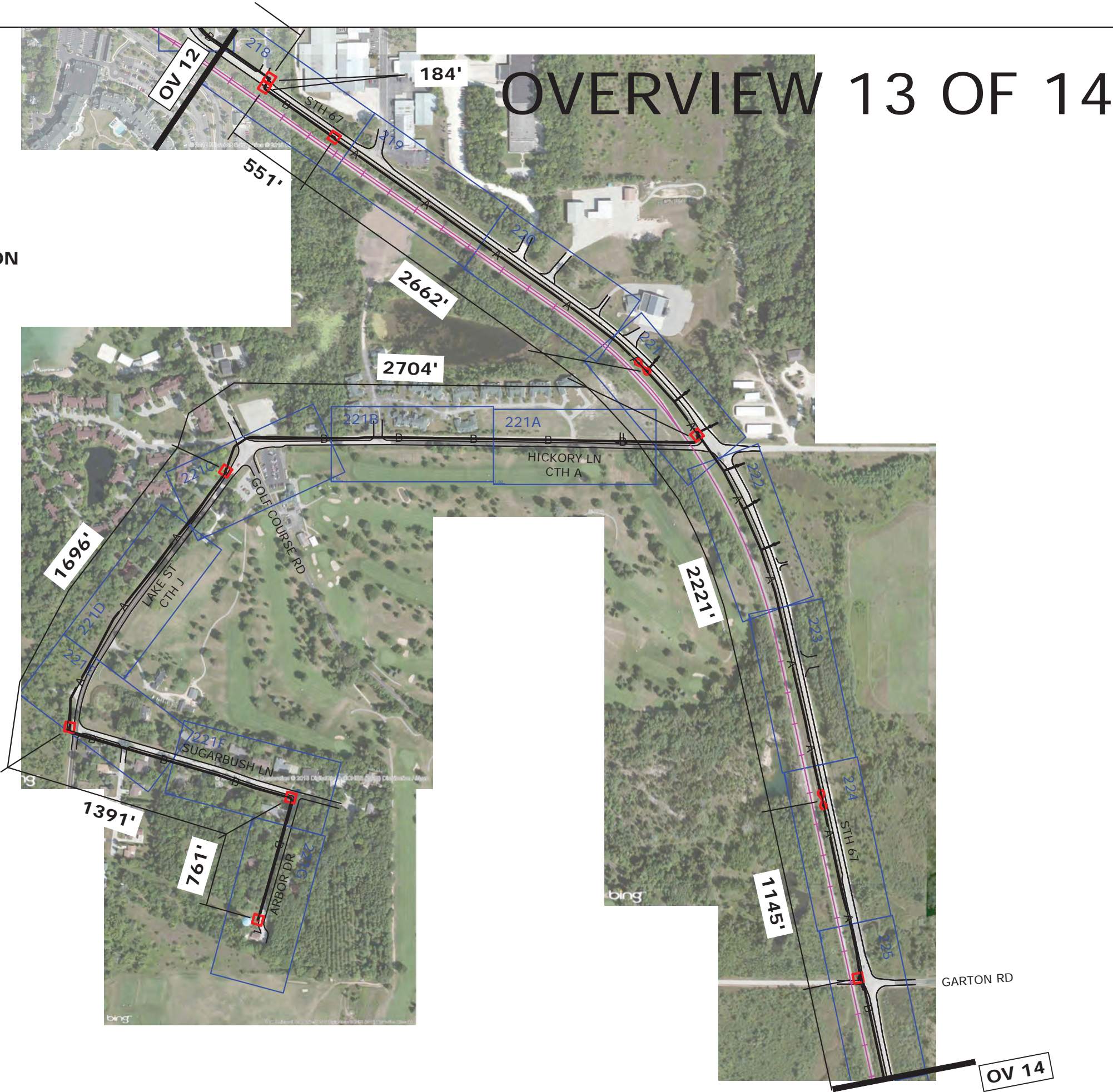
OVERVIEW 12 OF 14







SYMBOL LEGEND

-  - PROPOSED HANDHOLE
-  - BURIED CABLE ROUTE
-  - AERIAL CABLE ROUTE
-  - PROPOSED AERIAL SLACK LOOP

NOTE:
- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON
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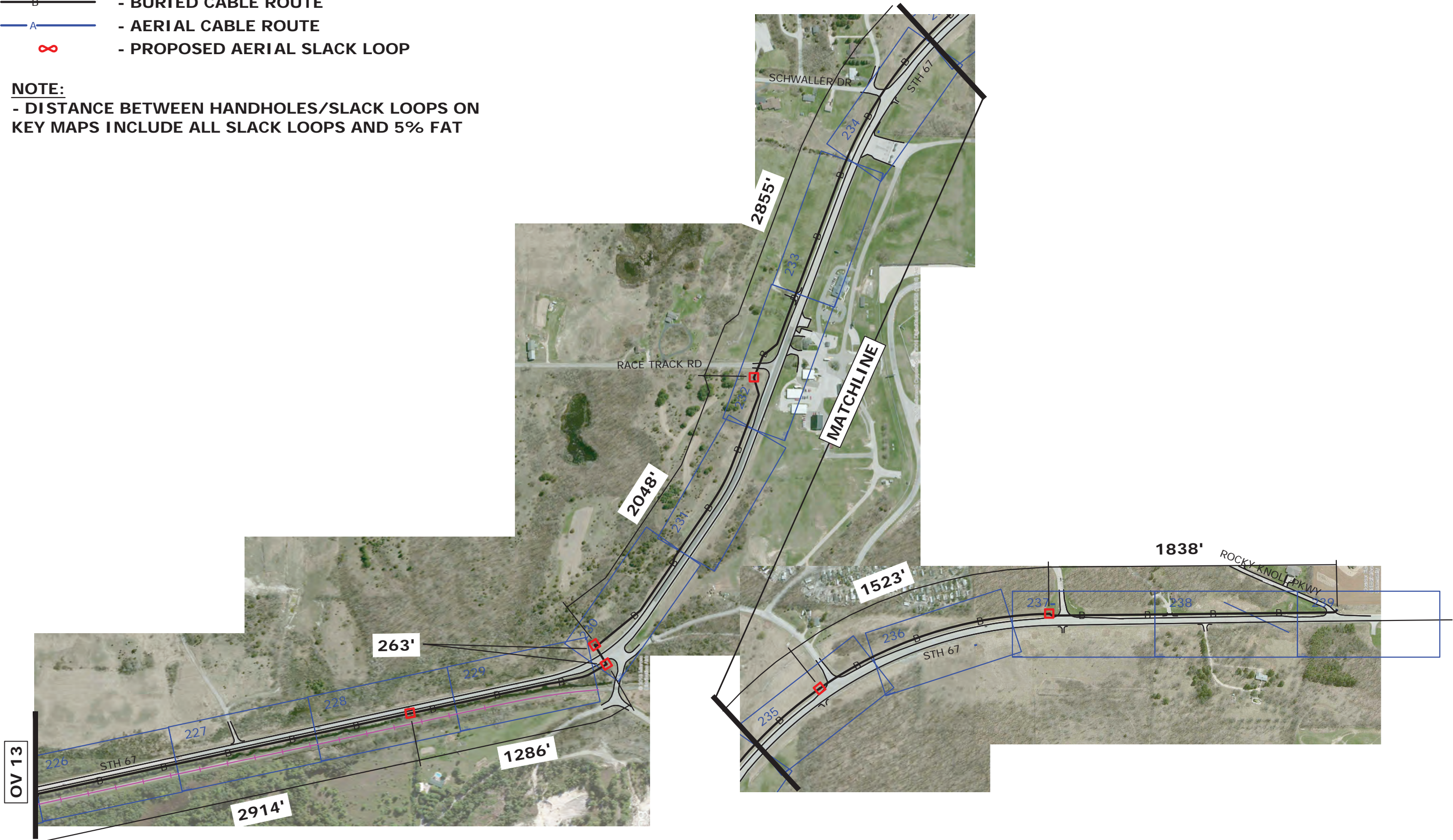


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NOTE:
- DISTANCE BETWEEN HANDHOLES/SLACK LOOPS ON
KEY MAPS INCLUDE ALL SLACK LOOPS AND 5% FAT

OVERVIEW 14 OF 14



GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION PERMITS OR NOTIFICATIONS HAVE BEEN COMPLETED OR APPLIED FOR BY MI-TECH SERVICES.
2.

CONTACTS:

MI-TECH SERVICES

NSIGHT TELESERVICES

PAUL CARRICK

RICK VINCENT

(920) 609-4501

(920) 617-7316
3. ANY ADJACENT AREAS DAMAGED DURING CONSTRUCTION MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
4. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY IRONS DURING CONSTRUCTION AND RESET BY A LICENSED LAND SURVEYOR IF DISTURBED.
5. ROUTE DEVIATIONS SHALL NOT BE ALLOWED WITHOUT CONCURRENCE OF DESIGNER.
6. 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.
7. 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.
8. ALL ABRUPT CHANGES IN GRADE SUCH AS BERMS AND DITCHES SHALL BE GRADUALLY SLOPED AND RESTORED TO THEIR NATURAL STATE.
9. 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)
10. THE CONTRACTOR IS RESPONSIBLE FOR PLACING ROAD GRAVEL IN ALL HAND HOLES PLACED OR ENTERED.
11. A MINIMUM 6" BED OF ROAD GRAVEL SHOULD BE PLACED PRIOR TO SETTING HAND HOLES.
12. 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.
13. ALL CABLE, DUCT & TRACER WIRE SHOULD BE TAGGED BY CONSTRUCTION CONTRACTOR.
14. 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.
15. 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.
16. ALL AERIAL CONSTRUCTION TO MEET NESC AND RUS SPECIFICATIONS.
17. THE CONSTRUCTION CONTRACTOR SHALL SUPPLY DUCT PLUGS AND PLUG ALL DUCT IN HAND HOLES AND AT RISERS.
18. 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.
19. 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. DOOR COUNTY PERMIT IS REQUIRED FOR THIS PROJECT. PERMITS REQUIRED: YES FOR OUTAGAMIE COUNTY AND VILLAGE OF KIMBERLY



450 Security Blvd. • Green Bay, WI • 54313 • Phone 920-617-7000 • Fax 920-617-7319
P.O. Box 19079 • Green Bay, WI 54307-9079 www.nsisht.com

NSIGHT PROJECT:

NL19-17 Calumet County Fiber Build		
MI-TECH DESIGNER:	PAUL CARRICK	
PHONE NUMBER:	920-609-4501	
EMAIL ADDRESS:	pcarrick@mi-tech.us	
PHYSICAL ADDRESS:	1700 INDUSTRIAL DR	

	DATE
NSIGHT PO RECEIVED:	4/12/2019
REQUESTED COMPLETION:	

	DATE:	MI-TECH SIGNATURE
COMPLETION OF BASE MAPS:	11/13/2018	<i>Andy Lee</i>
COMPLETION OF MAP FIELDING:	6/18/2019	<i>Paul Carrick</i>
COMPLETION OF PLACING PLANT:	6/16/2019	<i>Paul Carrick</i>
COMPLETION OF POLE FIELD WORK:	2/26/2019	<i>Paul Carrick</i>
COMPLETION OF POLE OFFICE WORK:	7/5/2019	<i>Paul Carrick</i>
COMPLETION OF MAPPING QC:	7/8/2019	<i>Paul Carrick</i>

	DATE:	MI-TECH SIGNATURE
PRINTS SENT TO NSIGHT FOR REVIEW:	7/8/2019	<i>Paul Carrick</i>
POLE WORK SENT IN FOR PE REVIEW:		

	DATE:	NSIGHT SIGNATURE
COMPLETED PE REVIEW		
COMPLETED JOB REVIEW		
FINAL SIGN OFF		

TYPICAL AERIAL POLE BOX DETAILS

EXISTING POWER POLE

(HEIGHTS IN RED) = ATTACHMENT HEIGHTS AFTER "MAKE READY" RECOMMENDATIONS

POLE# 3128 19L22	POLE NUMBER
P. 28'6" NEU	POWER = NEUTRAL ATTACHMENT
P. 27'10" TRANS	POWER = BOTTOM OF TRANSFORMER CAN
P. 26'8" STL	POWER = BOTTOM OF STREET LIGHT BRACKET
P. 26'2" STL DRIP	POWER = STREET LIGHT DRIP LOOP
P. 25'8" SEC	POWER = SECONDARY ATTACHMENT
P. 25'6" SEC DRIP	POWER = SECONDARY DRIP LOOP
P. 24'10" (25'4") RISER	POWER = TOP OF RISER GUARD
CATV. 22'6" (22'0")	CABLE TV ATTACHMENT HEIGHT
TELE. 20'11"	TELEPHONE ATTACHMENT HEIGHT
FIBER. 19'11"	FOREIGN FIBER ATTACHMENT HEIGHT
N. 18'11"	NSIGHT/NETLEC = PROPOSED ATTACHMENT HEIGHT
PLACE ANCHOR L=6'	NSIGHT/NETLEC = PROPOSED ANCHOR LEAD PLACEMENT, WHICH CORRESPONDS TO THE APPROPRIATE SYMBOL FOUND ON THE DESIGN PLANNING SHEET
ATTACH TO THE EXISTING CATV ANCHOR (NORTH) L=13' 2 OPEN EYES	NSIGHT/NETLEC = PROPOSED EXISTING ANCHOR LEAD ATTACHMENT, WHICH CORRESPONDS TO THE APPROPRIATE SYMBOL FOUND ON THE DESIGN PLANNING SHEET *(MULTIPLE ANCHORS WILL REFERENCE THE COMPASS HEADING)
"MAKE READY"	POLE REQUIRES MAKE READY FOR ATTACHMENT
RAISE RISER 6"	MAKE READY RECOMMENDATION
LOWER CATV 6"	MAKE READY RECOMMENDATION

EXISTING POWER POLE

MIDSPAN# 51	MIDSPAN NUMBER
P. 21'1" #6 DUPLEX	POWER = CONDUCTOR HEIGHT
P. 20'2" P 32/ICE OR P 194	POWER = WORST CASE SCENARIO SAG WITH EITHER 32° W/ .5" ICE OR AT 194°
CATV. 19'3"	CABLE TV CABLE/STRAND HEIGHT
TELE. 18'11" N/S	TELEPHONE NAKED STRAND HEIGHT
N. 17'6"	NSIGHT/NETLEC = PROPOSED INITIAL MIDSPAN HEIGHT
N/I. 16'7"	NSIGHT/NETLEC = PROPOSED MIDSPAN HEIGHT WITH HEAVY ICE STORM LOADING APPLIED
T. 502 LB	NSIGHT/NETLEC = PROPOSED INITIAL MIDSPAN TENSION
T/L 1.641	NSIGHT/NETLEC = PROPOSED MIDSPAN TRANSVERSE LOAD
EXISTING VIOLATION	EXISTING VIOLATION FLAG = UTILITIES IN VIOLATION WILL BE HIGHLIGHTED, BUT MAKE READY MIGHT NOT BE REQUIRED FOR THE PROPOSED CABLE. *(VIOLATION WILL BE TAKEN INTO CONSIDERATION DURING THE DESIGN AND THE APPROPRIATE CLEARANCES WILL BE LEFT FOR ADJUSTMENT)

RECOMMENDED POLE CHANGE OUTS

POLE# 3128 19L23 P. 30'2" (34'2") NEU P. 27'0" (31'0") SEC P. 26'10" (30'10") TRANS P. 26'5" (30'5") ANCHOR TELE. 22'5" (26'7") N. 25'7" 'MAKE READY' CHANGE OUT POLE	MIDSPAN# 52 P. 20'7" (22'7") #2 ACSR P/I. 19'3" (21'3") TELE. 16'8" (18'9") N. 17'9" N/I. 17'3" T. 285 LB T/L. 1.641 'MAKE READY' CHANGE OUT POLE #3127 19L23 FOR MIDSPAN CLEARANCE
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NSIGHT/NETLEC NEW POLE PLACEMENT

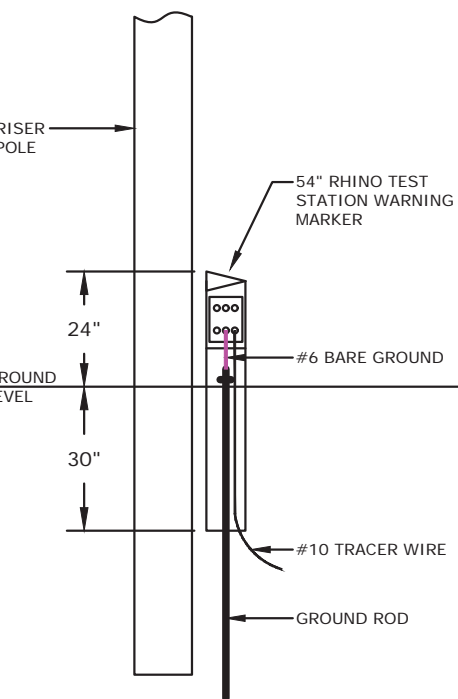
NEW POLE# 5	NSIGHT/NETLEC = NEW POLE NUMBER
35' CLASS 5	NSIGHT/NETLEC = NEW POLE HEIGHT AND CLASS
POLE TOP. 29'6"	NSIGHT/NETLEC = APPROXIMATE NEW POLE HEIGHT TO TOP AFTER PLACEMENT
N. 27'6"	NSIGHT/NETLEC = PROPOSED ATTACHMENT HEIGHT

EXISTING FOREIGN COMMUNICATION POLE

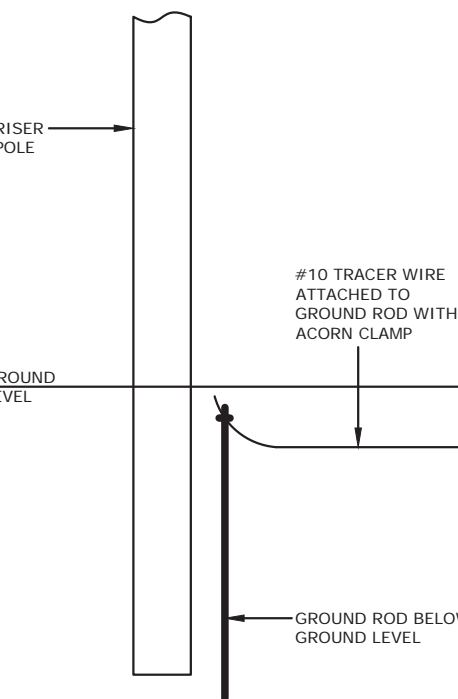
POLE# 1	POLE NUMBER
POLE TOP. 25'0"	POLE HEIGHT TO TOP
TELE. 23'11"	TELEPHONE ATTACHMENT HEIGHT
N. 22'11"	NSIGHT/NETLEC = PROPOSED ATTACHMENT HEIGHT

*IF ALLOWABLE CLEARANCES ARE NOT ATTAINABLE BY "MAKE READY" ADJUSTMENTS, A POLE CHANGE OUT WILL BE RECOMMENDED. THIS NOTE COULD BE FOUND AT THE POLE OR MIDSPAN AND WILL REFERENCE THE POLE TO BE REPLACED. A RECOMMENDATION OF THE NEW ATTACHMENT HEIGHTS WILL BE PROVIDED ON THE PRINTS IN "RED" AND THE PROPOSED STRUCTURE SIZE WILL BE PROVIDED IN A SEPARATE MAKE READY DOCUMENT.

TYPICAL GROUNDING OF TRACER WIRE AT RISER POLE WITH RHINO TEST STATION

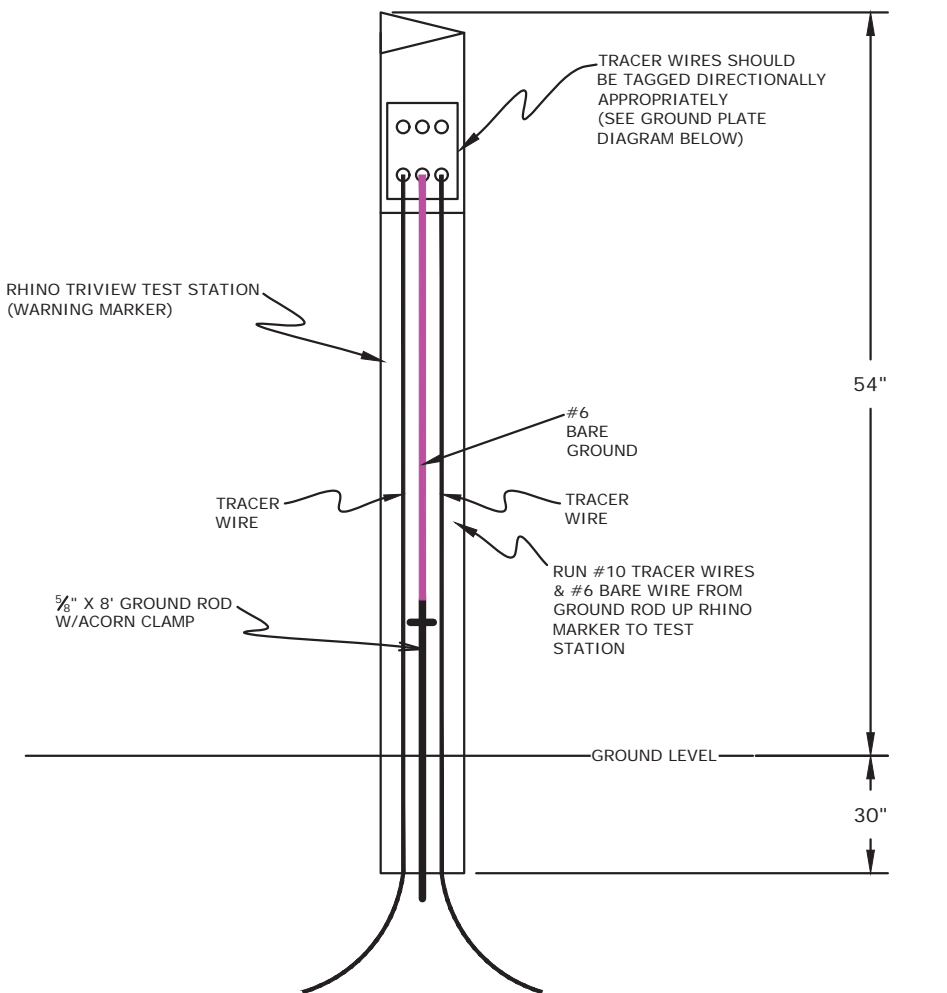


TYPICAL GROUNDING OF TRACER WIRE AT RISER POLE WITHOUT A RHINO TEST STATION

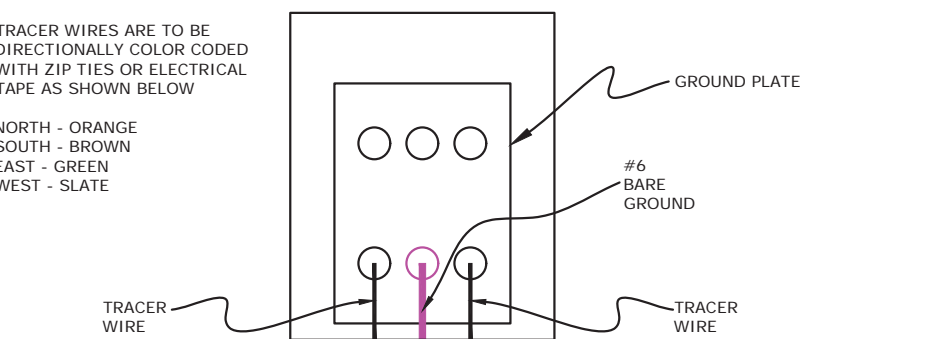


NET-LEC, LLC
SHERWOOD TO PLYMOUTH
NL18-47
FIBER BUILD
TYPICAL CONSTRUCTION DRAWINGS

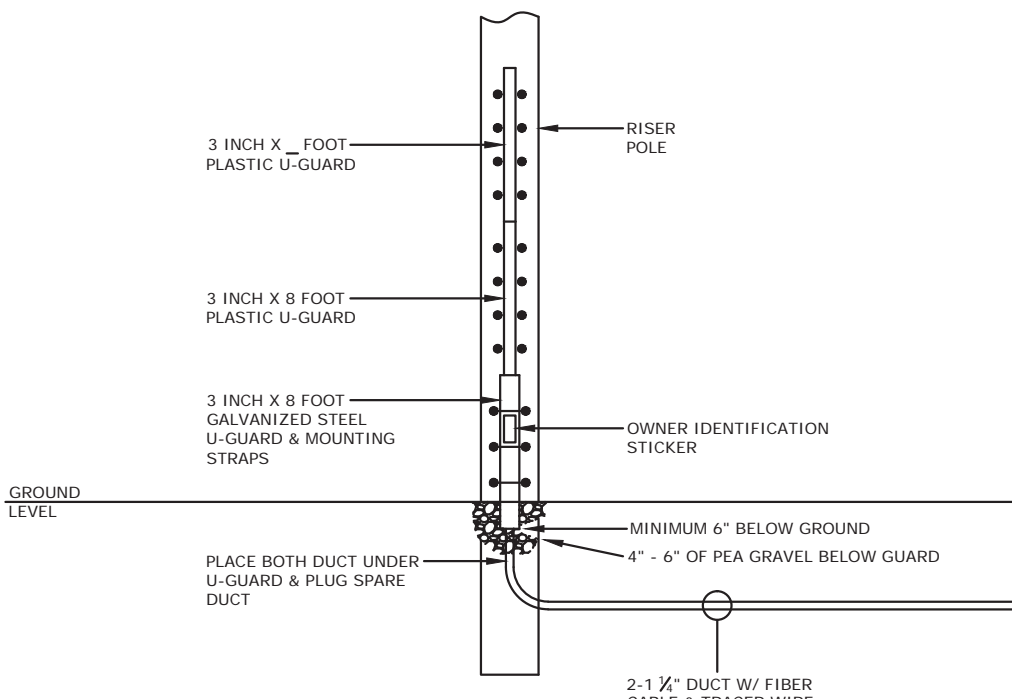
TYPICAL RHINO TEST STATION INSTALLATION (WITHOUT HANDHOLE)
SIDE VIEW



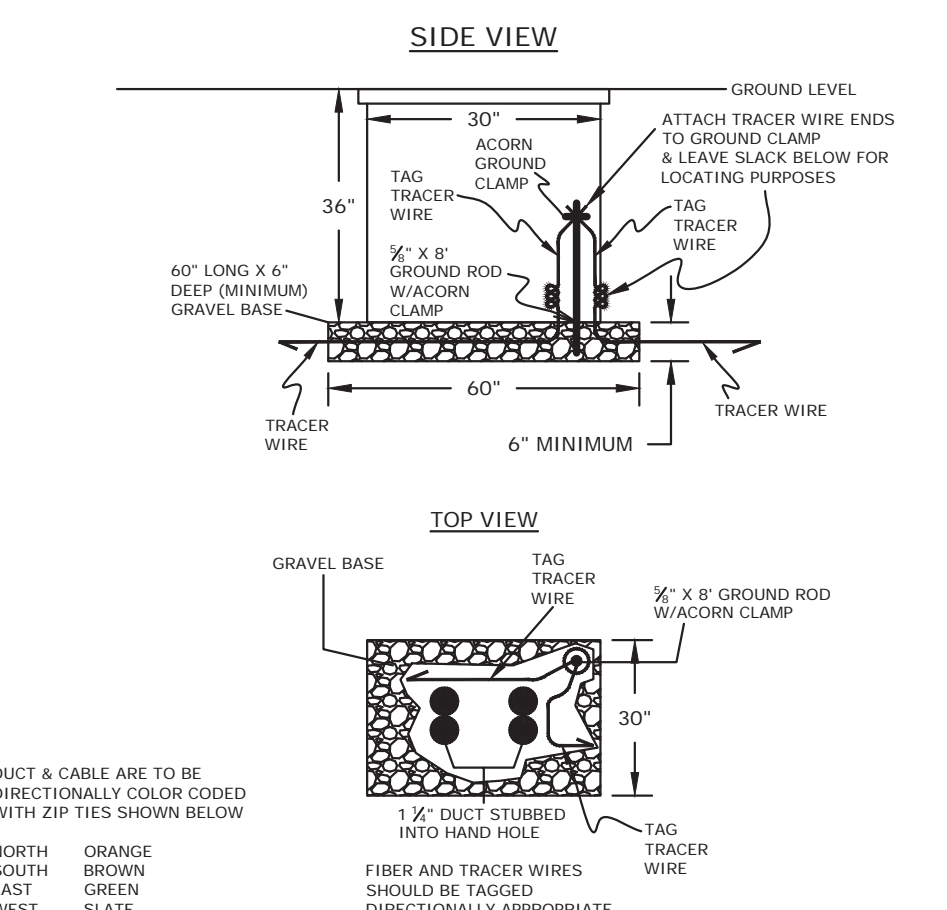
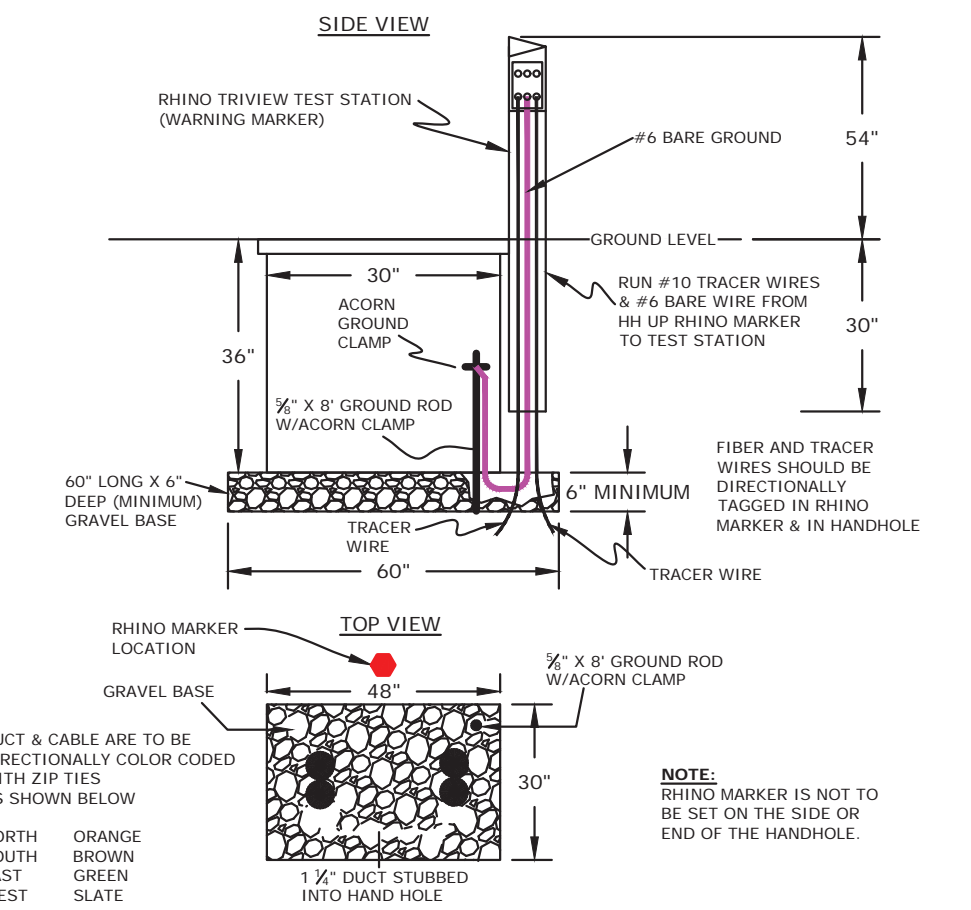
TYPICAL RHINO TEST STATION (GROUND PLATE DETAIL)



TYPICAL RISER GUARD INSTALLATION



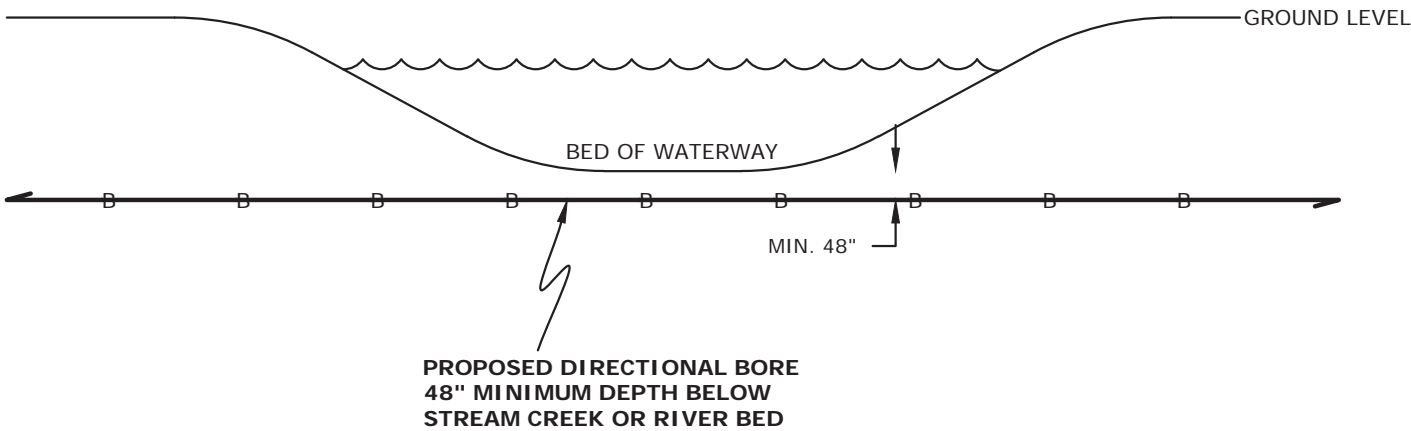
TYPICAL HAND HOLE INSTALLATION (WITH RHINO TEST STATION)
QUAZITE HAND HOLE AND COVER 30" X 48" X 36"



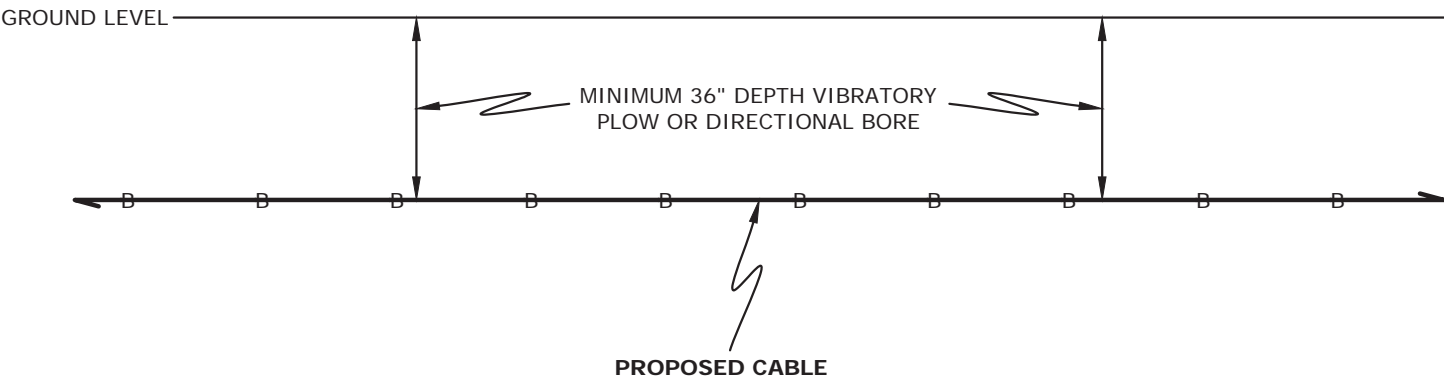
NET-LEC, LLC
SHERWOOD TO PLYMOUTH
NL18-47
FIBER BUILD
TYPICAL CONSTRUCTION DRAWINGS

TYPICAL RIVER/STREAM/CREEK CROSSING

TYPICAL WETLAND CROSSING



***NOTE: BORE PITS TO BE SET UP
OUTSIDE OF WETLAND BOUNDARIES
UNLESS OTHERWISE NOTED ON PRINTS**



***NOTE: BORE PITS TO BE SET UP
OUTSIDE OF WETLAND BOUNDARIES
UNLESS OTHERWISE NOTED ON PRINTS**

GENERAL CONSTRUCTION NOTES:

1. CONSTRUCTION PERMITS OR NOTIFICATIONS HAVE BEEN COMPLETED OR APPLIED FOR BY MI-TECH SERVICES.
2.

CONTACTS:

MI-TECH SERVICES

NSIGHT TELESERVICES

PAUL CARRICK

RICK VINCENT

(920) 609-4501

(920) 617-7316
3. ANY ADJACENT AREAS DAMAGED DURING CONSTRUCTION MUST BE RESTORED TO THEIR ORIGINAL CONDITION.
4. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY IRONS DURING CONSTRUCTION AND RESET BY A LICENSED LAND SURVEYOR IF DISTURBED.
5. ROUTE DEVIATIONS SHALL NOT BE ALLOWED WITHOUT CONCURRENCE OF DESIGNER.
6. 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.
7. 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.
8. ALL ABRUPT CHANGES IN GRADE SUCH AS BERMS AND DITCHES SHALL BE GRADUALLY SLOPED AND RESTORED TO THEIR NATURAL STATE.
9. 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)
10. THE CONTRACTOR IS RESPONSIBLE FOR PLACING ROAD GRAVEL IN ALL HAND HOLES PLACED OR ENTERED.
11. A MINIMUM 6" BED OF ROAD GRAVEL SHOULD BE PLACED PRIOR TO SETTING HAND HOLES.
12. 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.
13. ALL CABLE, DUCT & TRACER WIRE SHOULD BE TAGGED BY CONSTRUCTION CONTRACTOR.
14. 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.
15. 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.
16. ALL AERIAL CONSTRUCTION TO MEET NESC AND RUS SPECIFICATIONS.
17. THE CONSTRUCTION CONTRACTOR SHALL SUPPLY DUCT PLUGS AND PLUG ALL DUCT IN HAND HOLES AND AT RISERS.
18. 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.
19. 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. DOOR COUNTY PERMIT IS REQUIRED FOR THIS PROJECT. PERMITS REQUIRED: YES FOR OUTAGAMIE COUNTY AND VILLAGE OF KIMBERLY

TYPICAL AERIAL POLE BOX DETAILS

EXISTING POWER POLE

(HEIGHTS IN RED) = ATTACHMENT HEIGHTS AFTER "MAKE READY" RECOMMENDATIONS

POLE# 3128 19L22	POLE NUMBER
P. 28'6" NEU	POWER = NEUTRAL ATTACHMENT
P. 27'10" TRANS	POWER = BOTTOM OF TRANSFORMER CAN
P. 26'8" STL	POWER = BOTTOM OF STREET LIGHT BRACKET
P. 26'2" STL DRIP	POWER = STREET LIGHT DRIP LOOP
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P. 25'6" SEC DRIP	POWER = SECONDARY DRIP LOOP
P. 24'10" (25'4") RISER	POWER = TOP OF RISER GUARD
CATV. 22'6" (22'0")	CABLE TV ATTACHMENT HEIGHT
TELE. 20'11"	TELEPHONE ATTACHMENT HEIGHT
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N. 18'11"	NSIGHT/NETLEC = PROPOSED ATTACHMENT HEIGHT
PLACE ANCHOR L=6'	NSIGHT/NETLEC = PROPOSED ANCHOR LEAD PLACEMENT, WHICH CORRESPONDS TO THE APPROPRIATE SYMBOL FOUND ON THE DESIGN PLANNING SHEET
ATTACH TO THE EXISTING CATV ANCHOR (NORTH) L=13' 2 OPEN EYES	NSIGHT/NETLEC = PROPOSED EXISTING ANCHOR LEAD ATTACHMENT, WHICH CORRESPONDS TO THE APPROPRIATE SYMBOL FOUND ON THE DESIGN PLANNING SHEET *(MULTIPLE ANCHORS WILL REFERENCE THE COMPASS HEADING)
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TELE. 18'11" N/S	TELEPHONE NAKED STRAND HEIGHT
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RECOMMENDED POLE CHANGE OUTS

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NSIGHT/NETLEC NEW POLE PLACEMENT

NEW POLE# 5	NSIGHT/NETLEC = NEW POLE NUMBER
35' CLASS 5	NSIGHT/NETLEC = NEW POLE HEIGHT AND CLASS
POLE TOP. 29'6"	NSIGHT/NETLEC = APPROXIMATE NEW POLE HEIGHT TO TOP AFTER PLACEMENT
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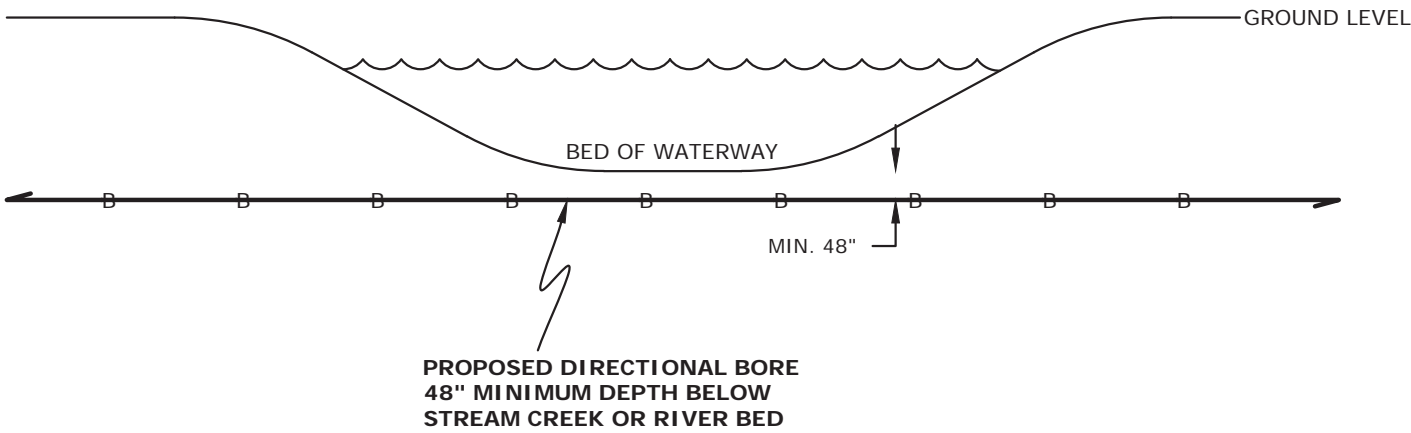
EXISTING FOREIGN COMMUNICATION POLE

POLE# 1	POLE NUMBER
POLE TOP. 25'0"	POLE HEIGHT TO TOP
TELE. 23'11"	TELEPHONE ATTACHMENT HEIGHT
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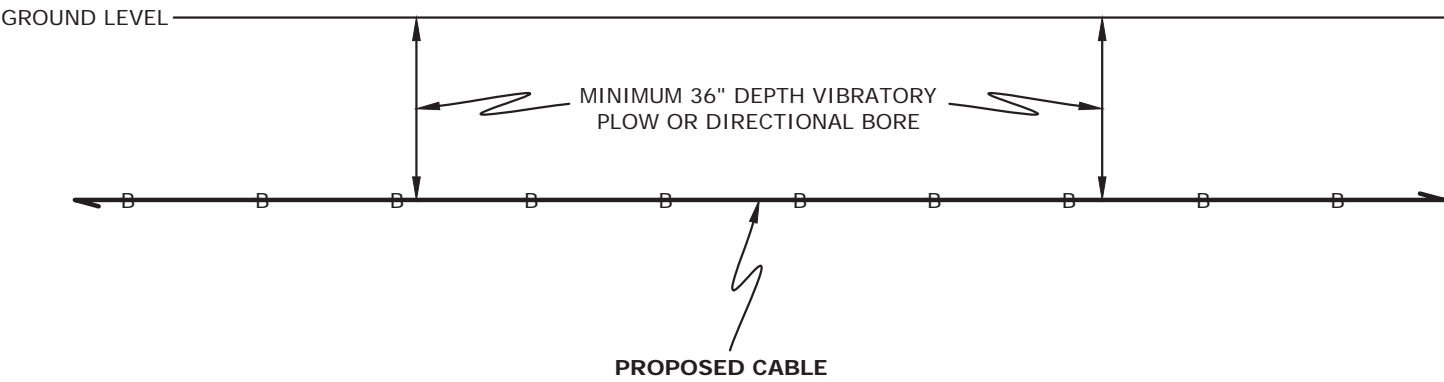
NET-LEC, LLC
SHERWOOD TO PLYMOUTH
NL18-47
FIBER BUILD
TYPICAL CONSTRUCTION DRAWINGS

TYPICAL RIVER/STREAM/CREEK CROSSING

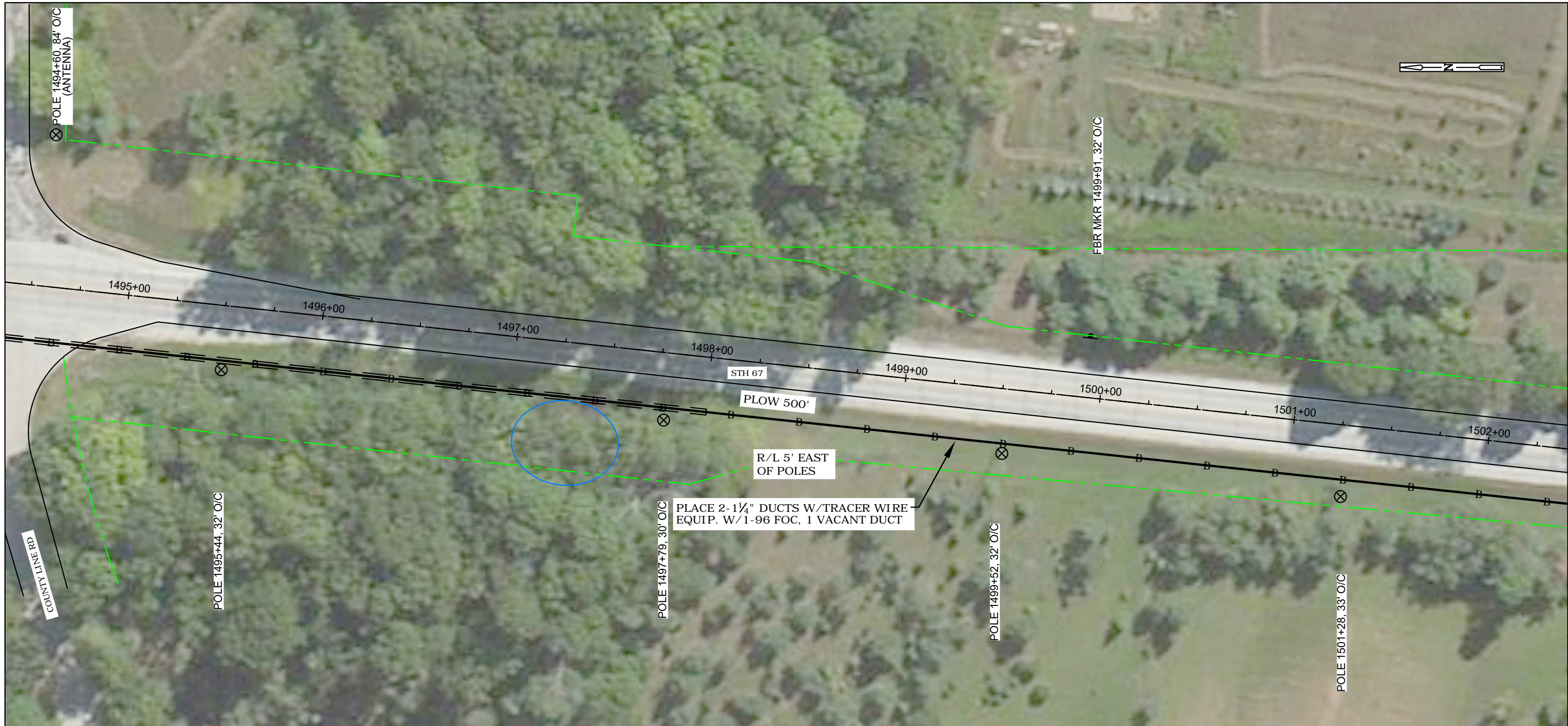


***NOTE: BORE PITS TO BE SET UP
OUTSIDE OF WETLAND BOUNDARIES
UNLESS OTHERWISE NOTED ON PRINTS**

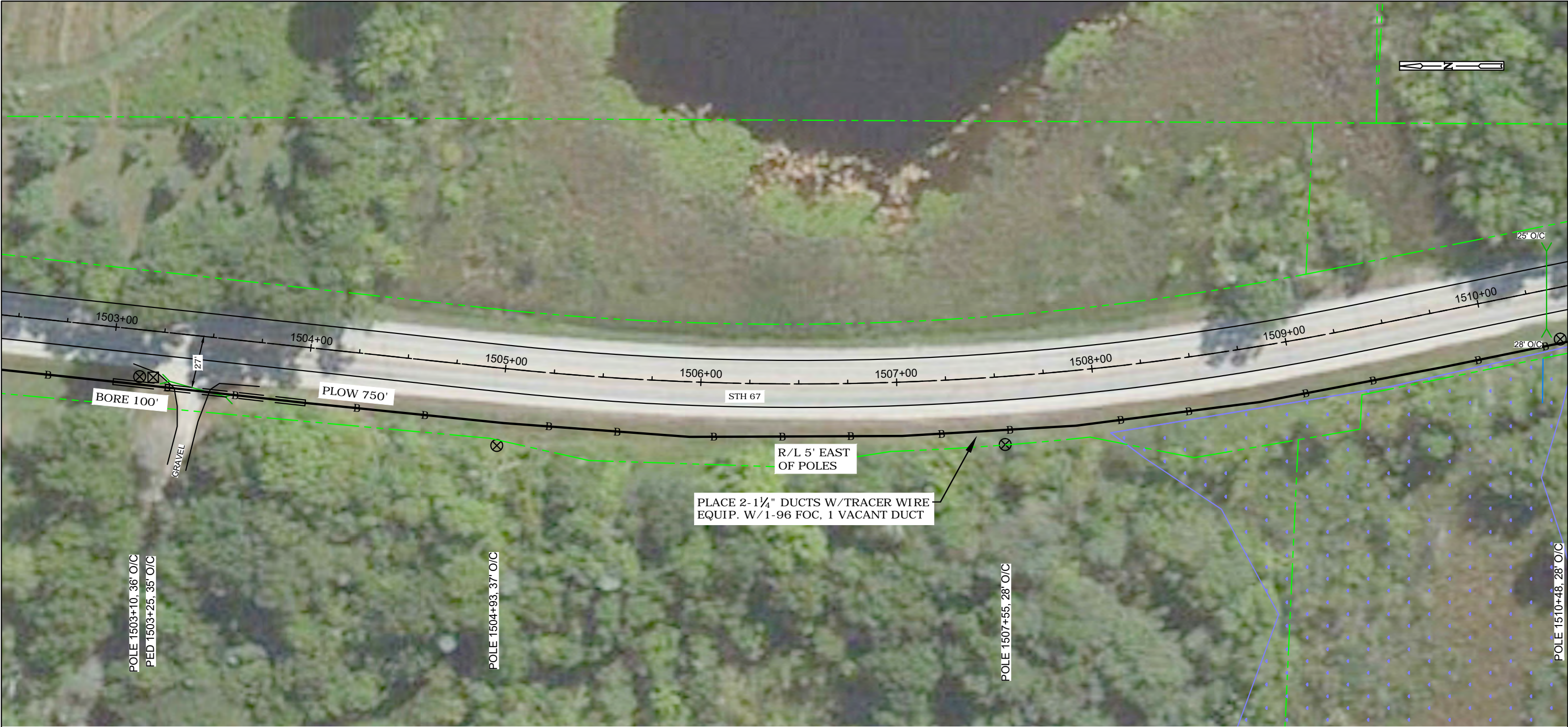
TYPICAL WETLAND CROSSING



***NOTE: BORE PITS TO BE SET UP
OUTSIDE OF WETLAND BOUNDARIES
UNLESS OTHERWISE NOTED ON PRINTS**

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CONT'D PRT 189



CONT'D PRT 191

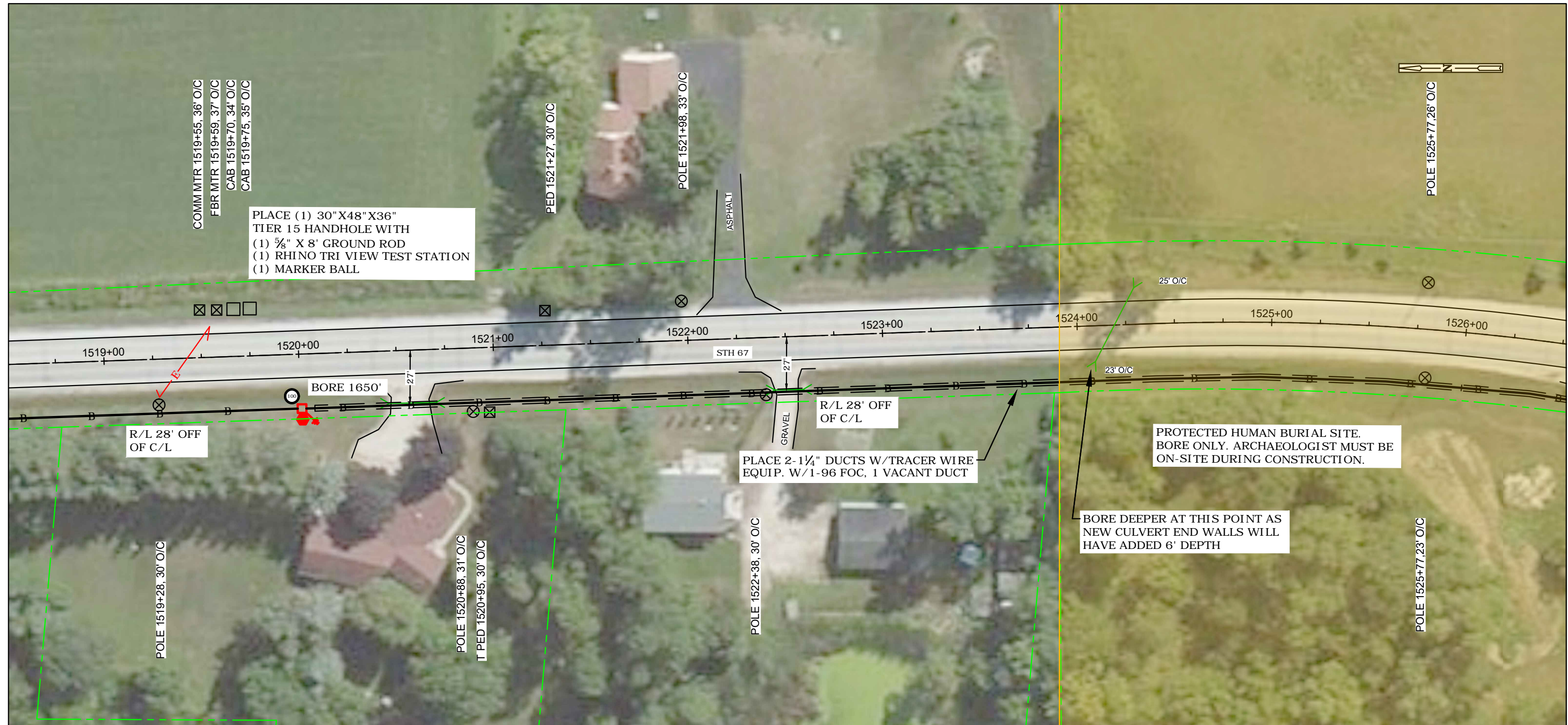
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	NSIGHT TELS SERVICES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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CONT'D PRT 190



CONT'D PRT 192

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div><div>WARNING: BURIED UTILITIES IN AREA</div><div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div><div>CALL FOR LOCATES</div></div>	NSIGHT TELS SERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD		
																																CALUMET COUNTY, WISCONSIN	
																																SHEET 191 OF 239	
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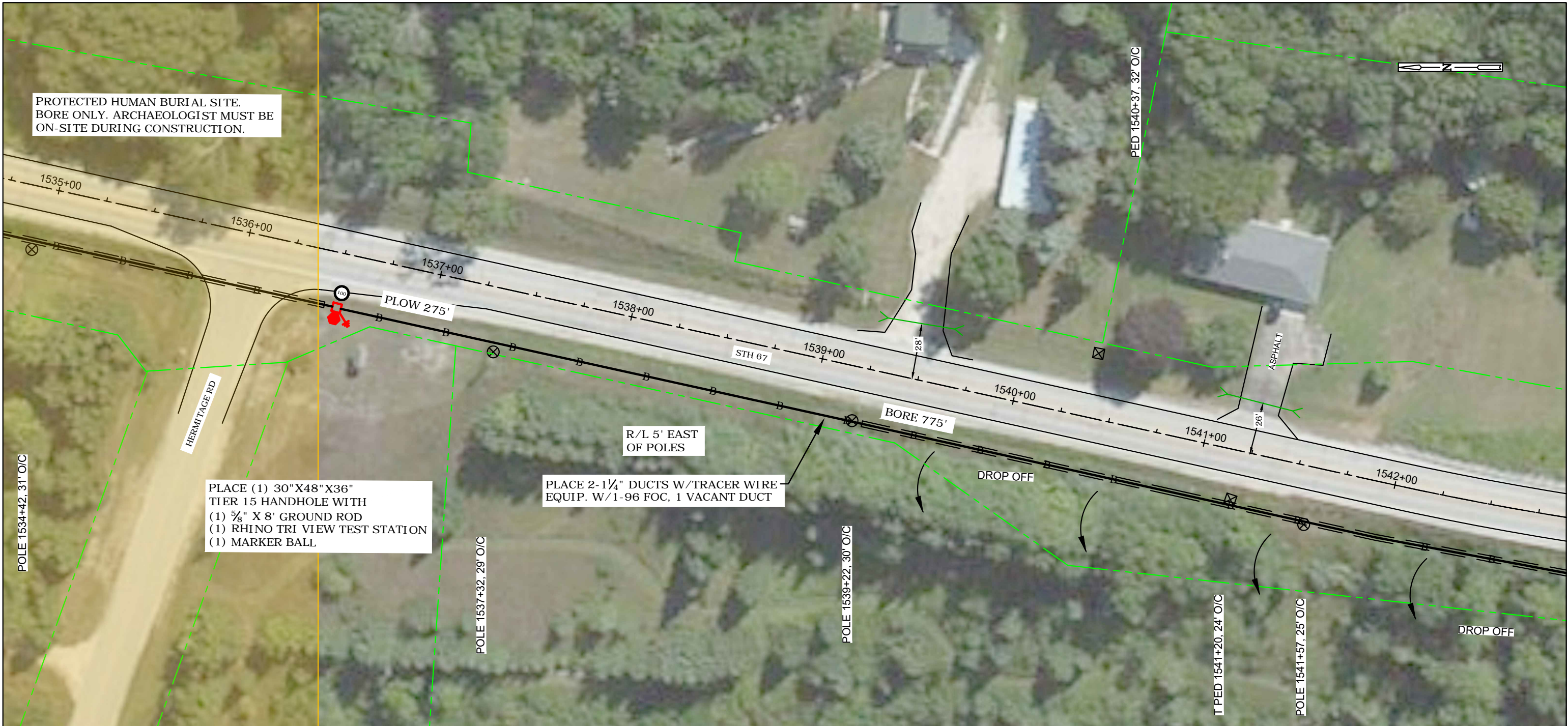


CONT'D PRT 194

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD				
																																CALUMET COUNTY, WISCONSIN			
																																SHEET 193 OF 239			
																																MAP NO.			
																																FILE NAME: Calumet N18-47 SOUTH.dwg			
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																																DRAFTING		BY	DATE
																																BASE		AL	
																																DESIGN		PC	4/20/20
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			
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CONT'D PRT 193

CONT'D PRT 195

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CONT'D PRT 194



CONT'D PRT 196

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
																																SHEET 195 OF 239		
																																MAP NO.		
																																FILE NAME: Calumet N18-47 SOUTH.dwg		
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TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT		NOT TO SCALE

CONT'D PRT 195



CONT'D PRT 197

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div><div>WARNING: BURIED UTILITIES IN AREA</div><div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div><div>CALL FOR LOCATES</div></div>	NSIGHT TELS SERVICES					
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																																CALUMET COUNTY, WISCONSIN				
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																																DESIGN		PC	4/20/20	
																															BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT		NOT TO SCALE		

CONT'D PRT 196



CONT'D PRT 198

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 197 OF 239			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA					
HH	1561+50	1	1	1	2500	1125	1375			1																								

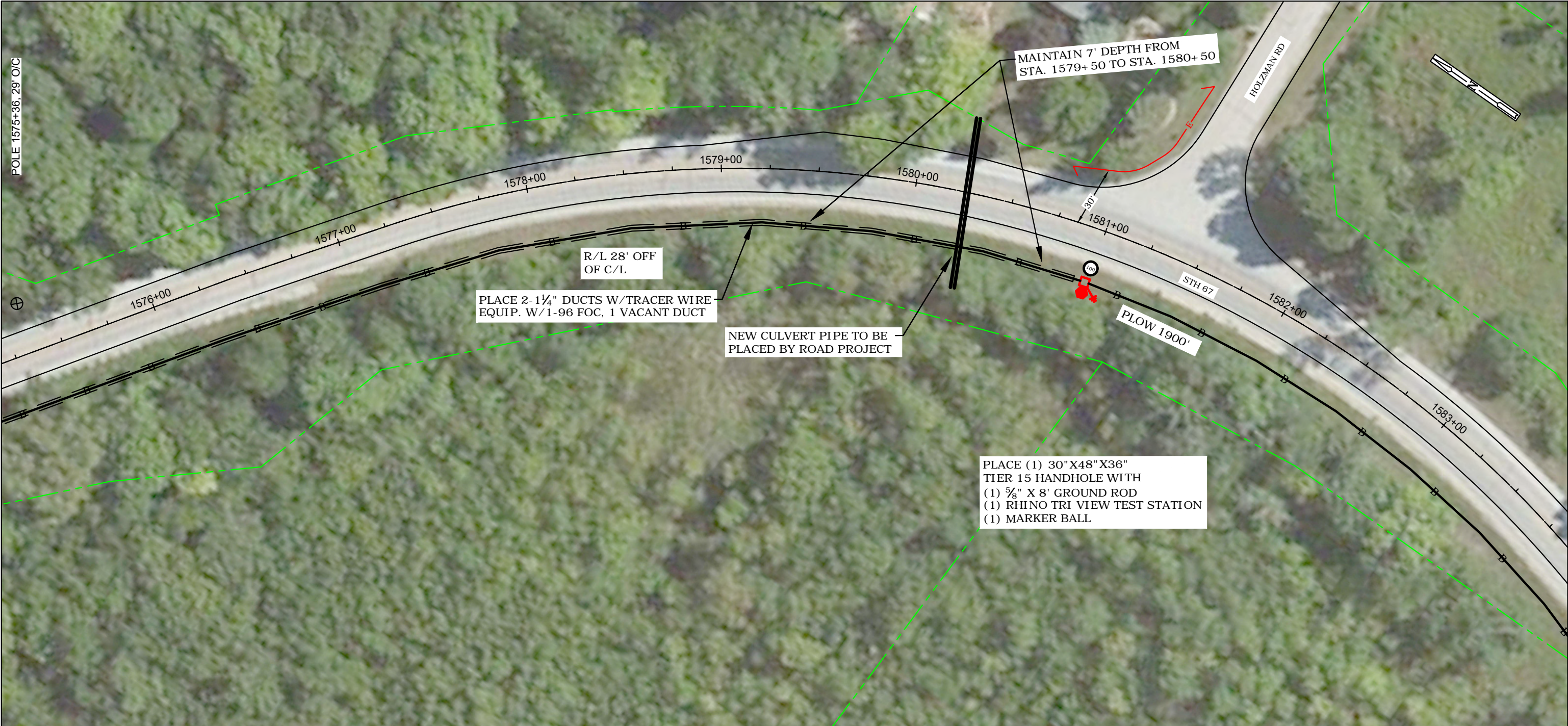
CONT'D PRT 197



CONT'D PRT 199

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 198 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O. # NL18-47					
																																DRAFTING		BY	DATE		
																																BASE		AL			
																																DESIGN		PC	4/20/20		
																																BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

CONT'D PRT 198



CONT'D PRT 200

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD					
HH	1581+00	1	1	1	1950	1000	950			1																						CALUMET COUNTY, WISCONSIN				
																																SHEET 199 OF 239				
																																MAP NO.				
																																FILE NAME: Calumet N18-47 SOUTH.dwg				
																																P.O. # NL18-47				
																																DRAFTING		BY	DATE	
																																BASE		AL		
																															DESIGN		PC	4/20/20		
TOTAL:		1	1	1	1950	1000	950	####	#####	#####	1	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#	ASBUILT			NOT TO SCALE		

CONT'D PRT 199



CONT'D PRT 201

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 200 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O. # NL18-47					
																																DRAFTING		BY	DATE		
																																BASE		AL			
																																DESIGN		PC	4/20/20		
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

CONT'D PRT 200



CONT'D PRT 202

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD				
																																CALUMET COUNTY, WISCONSIN			
																																SHEET 201 OF 239			
																																MAP NO.			
																																FILE NAME: Calumet N18-47 SOUTH.dwg			
																																P.O. # NL18-47			
																																DRAFTING		BY	DATE
																																BASE		AL	
																																DESIGN		PC	4/20/20
																															BUILT				
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			
																												NOT TO SCALE							

CONT'D PRT 201



CONT'D PRT 203

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD							
HH	1600+00	1	1	1	1900	1900				1																							CALUMET COUNTY, WISCONSIN				
																																	SHEET 202 OF 239				
																																		MAP NO.			
																																		FILE NAME: Calumet N18-47 SOUTH.dwg			
																																		P.O.# NL18-47			
																																		DRAFTING		BY	DATE
																																		BASE		AL	
																																		DESIGN		PC	4/20/20
																																	BUILT				
TOTAL:		1	1	1	1900	1900	####	####	####	1	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#			NOT TO SCALE			



STATIONING INFO		HANDHOLE - MARKER-GND		BURIED							STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	<div>NSIGHT TELSERVICES</div> <div>SHERWOOD TO PLYMOUTH FIBER BUILD</div> <div>CALUMET COUNTY, WISCONSIN</div> <div>SHEET 203 OF 239</div>		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA				

CONT'D PRT 203

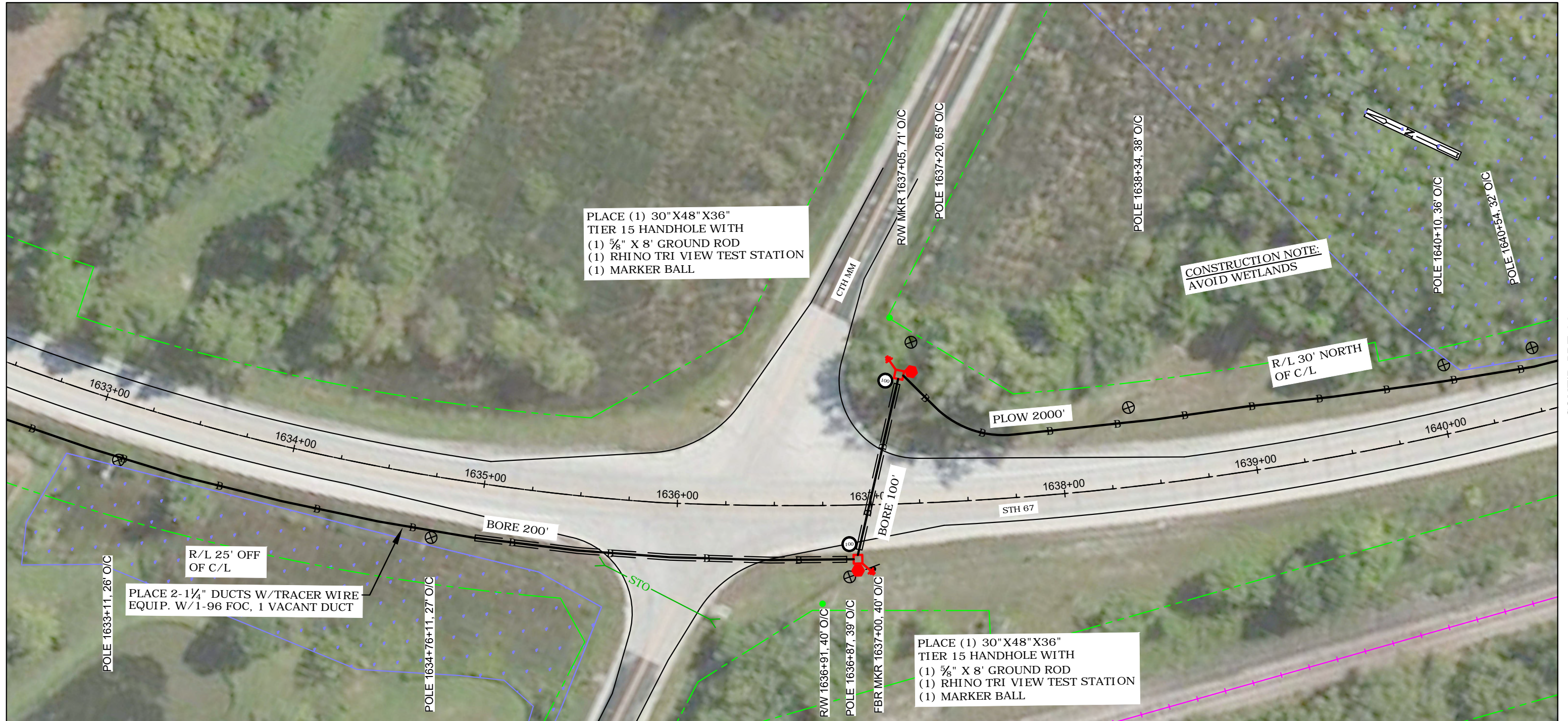


CONT'D PRT 205

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
HH	1623+00	1	1	1	2300	2100	200			1																						SHEET 204 OF 239		
																																MAP NO.		
																																FILE NAME: Calumet N18-47 SOUTH.dwg		
																																P.O. # NL18-47		
																																DRAFTING	BY	DATE
																																BASE	AL	
																																DESIGN	PC	4/20/20
																																BUILT		
TOTAL:		1	1	1	2300	2100	200	####	#####	#####	1	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#	ASBUILT			NOT TO SCALE

[illegible]

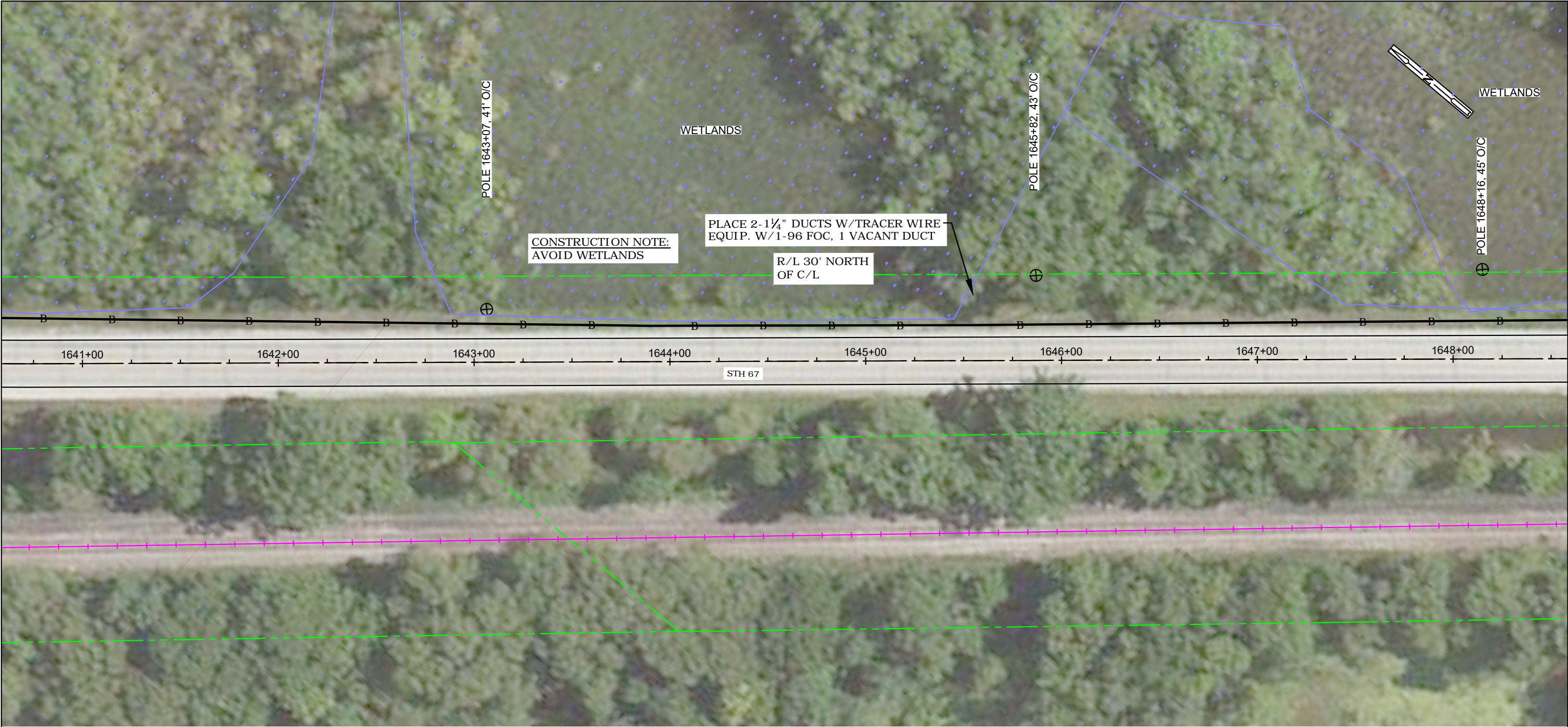
CONT'D PRT 205



CONT'D PRT 207

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	<div>NSIGHT TELSERVICES</div> <div>SHERWOOD TO PLYMOUTH FIBER BUILD</div> <div>CALUMET COUNTY, WISCONSIN</div> <div>SHEET 206 OF 239</div>		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA					
HH SO	1637+00	1	1	1	1400	700	700			1																								
HH NO	1637+00	1	1	1	100		100			1																								

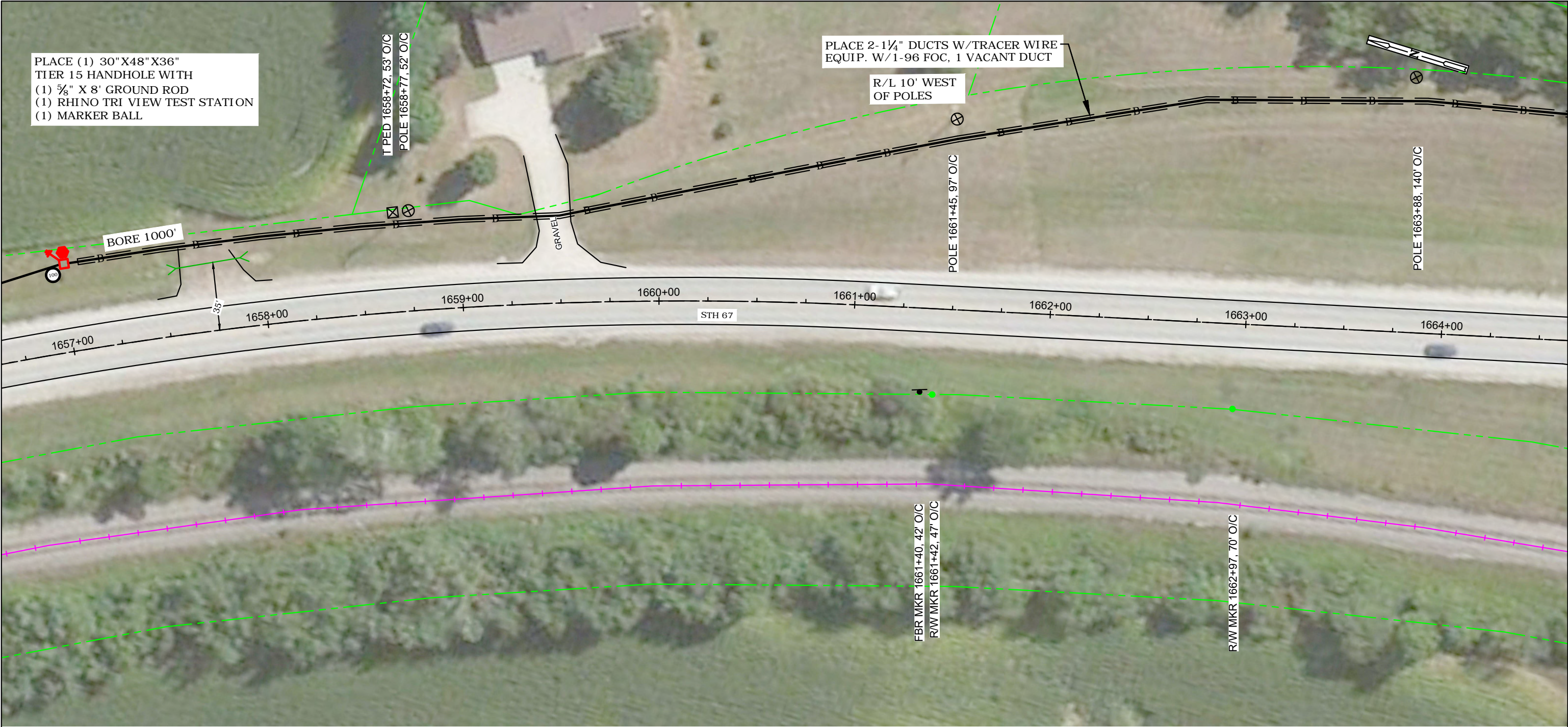
CONT'D PRT 206



CONT'D PRT 208

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 207 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O.# NL18-47					
																																DRAFTING		BY	DATE		
																																BASE		AL			
																																DESIGN		PC	4/20/20		
																																BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

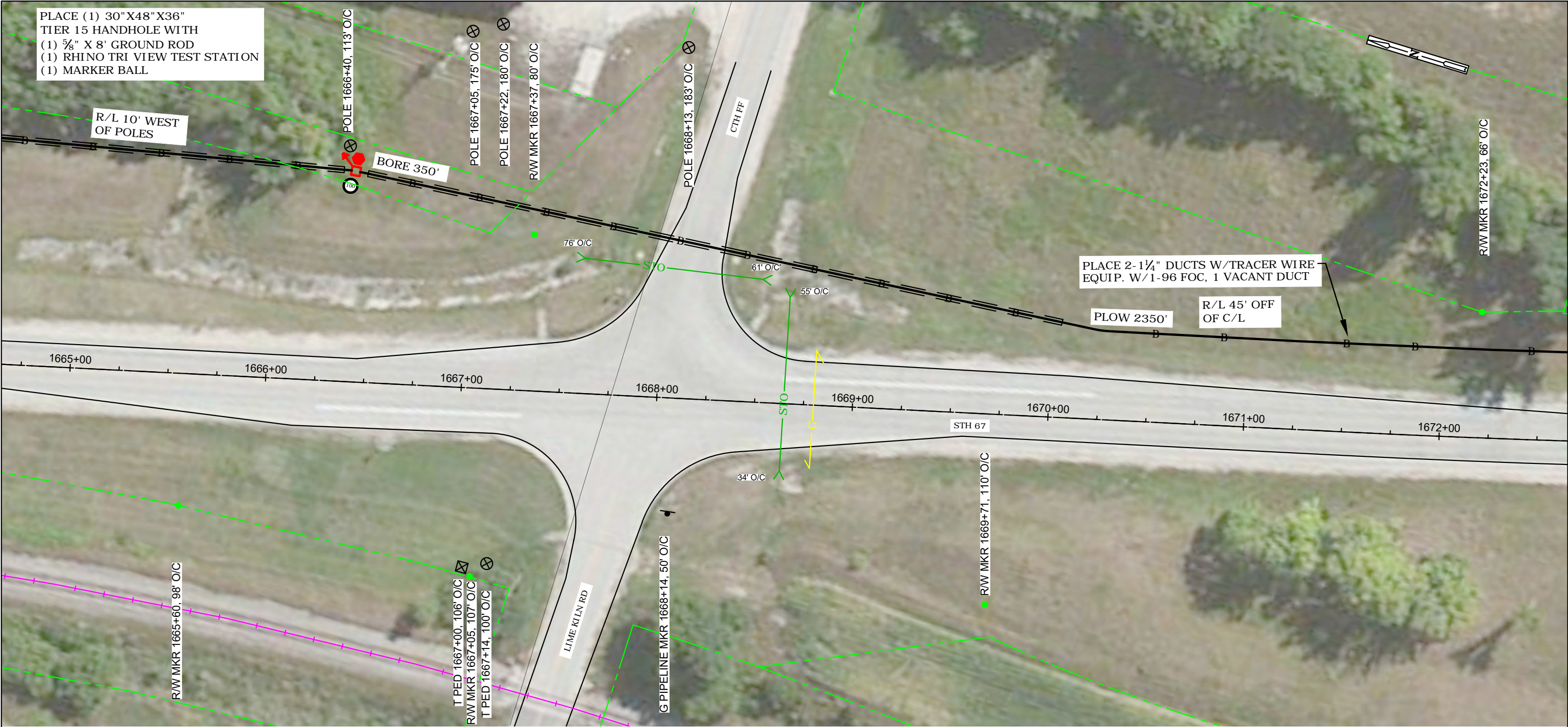
CONT'D PRT 208



CONT'D PRT 210

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
HH	1657+00	1	1	1	2000	2000				1																							SHEET 209 OF 239		
																																	MAP NO.		
																																	FILE NAME: Calumet N18-47 SOUTH.dwg		
																																	P.O. # NL18-47		
																																	DRAFTING	BY	DATE
																																	BASE	AL	
																																	DESIGN	PC	4/20/20
TOTAL:		1	1	1	2000	2000	####	####	####	1	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#			NOT TO SCALE	

CONT'D PRT 209



CONT'D PRT 211

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div><div>WARNING: BURIED UTILITIES IN AREA</div><div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div><div>CALL FOR LOCATES</div></div>	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
HH	1666+50	1	1	1	1000		1000			1																						SHEET 210 OF 239		

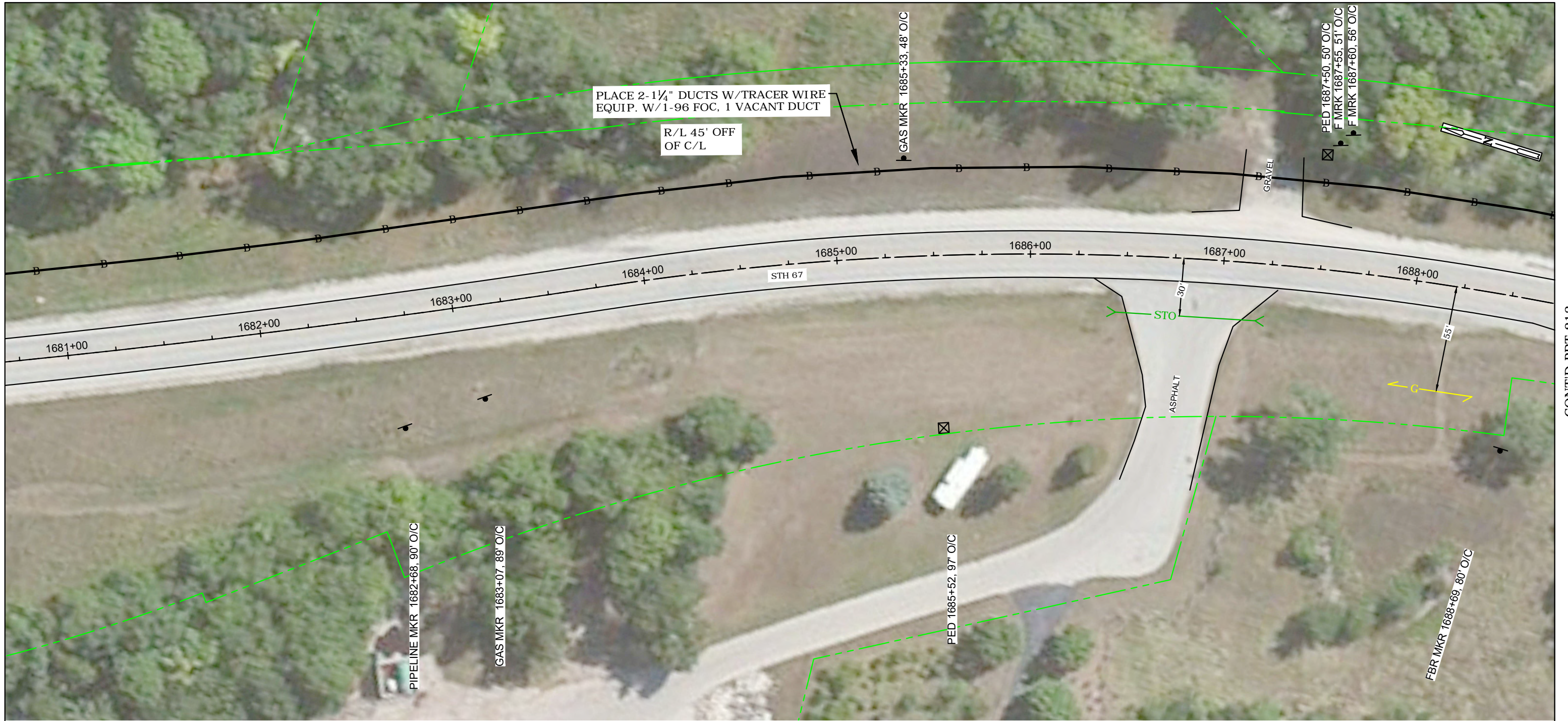
CONT'D PRT 210



CONT'D PRT 212

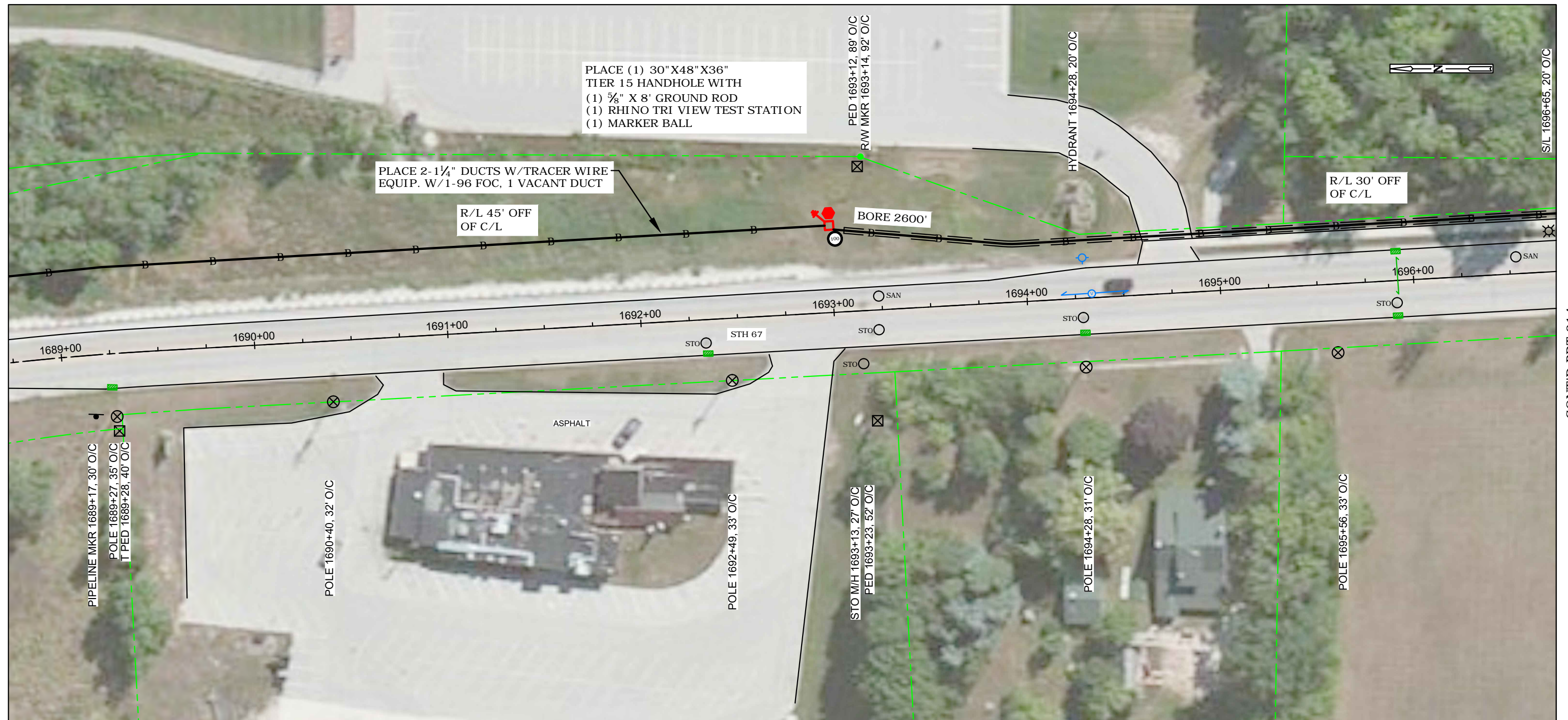
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD						
																																CALUMET COUNTY, WISCONSIN					
																																SHEET 211 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
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																																BASE		AL			
																																DESIGN		PC	4/20/20		
																															BUILT						
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

CONT'D PRT 211



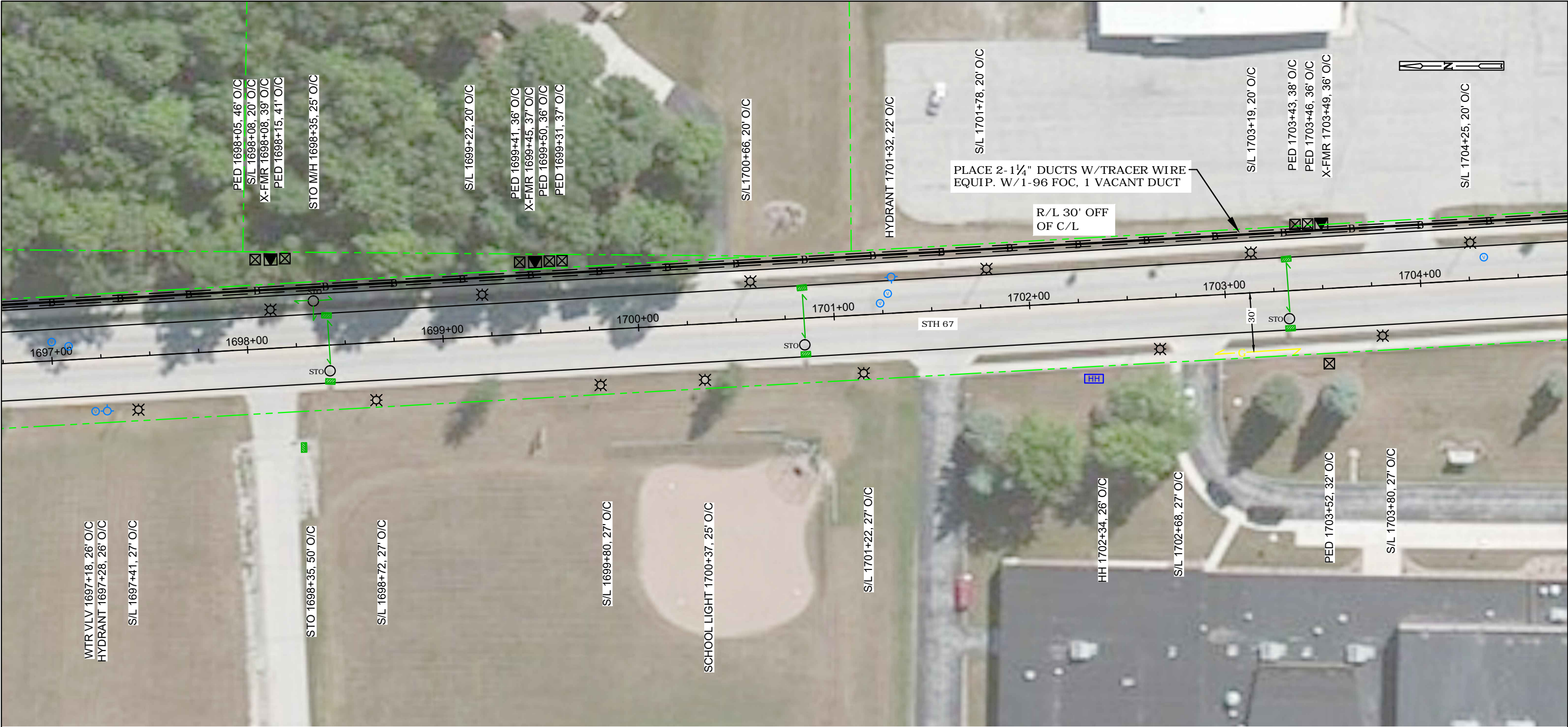
CONT'D PRT 213

[illegible]



STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div><div>WARNING: BURIED UTILITIES IN AREA</div><div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div><div>CALL FOR LOCATES</div></div>			<div>NSIGHT TELSERVICES</div> <div>SHERWOOD TO PLYMOUTH FIBER BUILD</div> <div>CALUMET COUNTY, WISCONSIN</div> <div>SHEET 213 OF 239</div>			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ " EHS)	PE 1-3 ($\frac{5}{16}$ " EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21								EPA
HH	1693+00	1	1	1	2700	2350	350				1																									

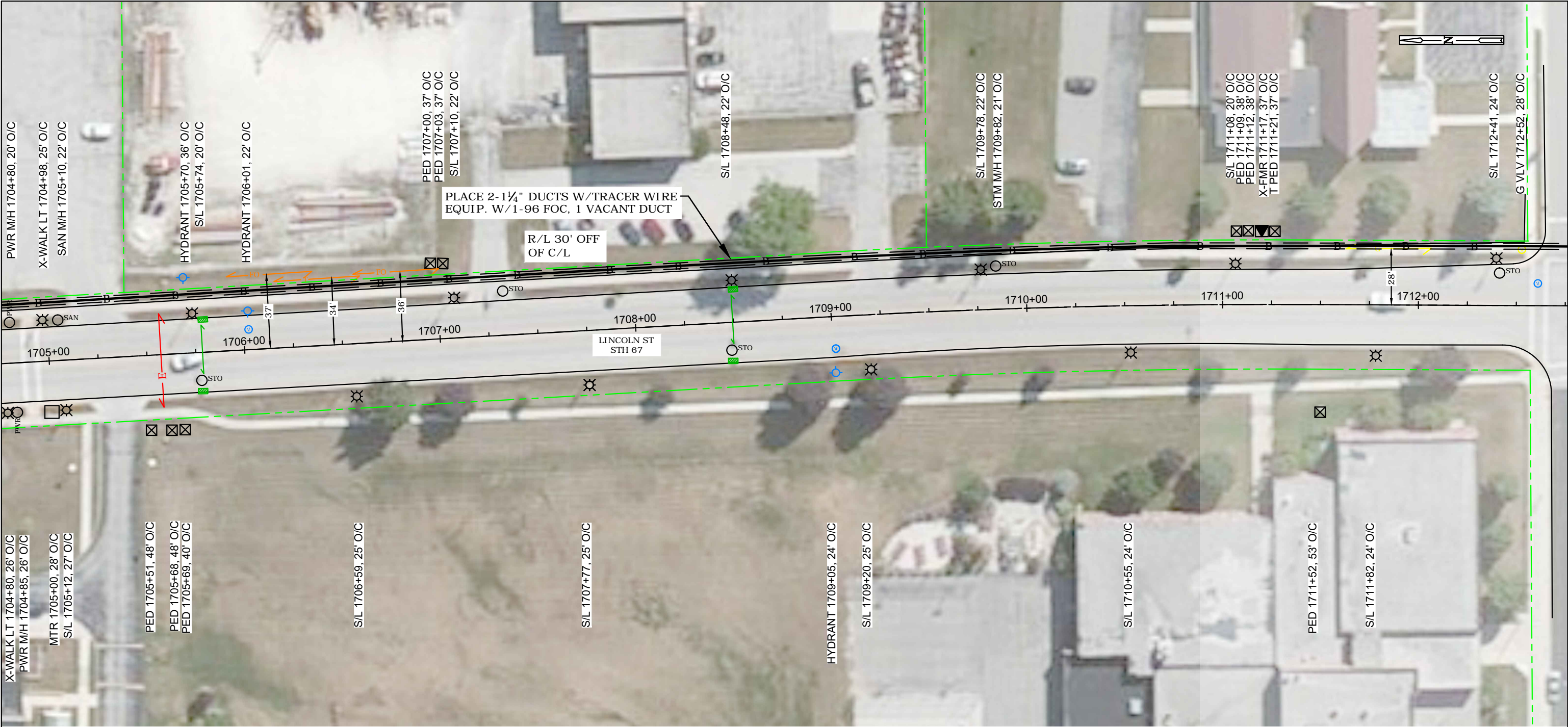
CONT'D PRT 213



CONT'D PRT 215

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 214 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O. # NL18-47					
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																																DESIGN		PC	4/20/20		
																																BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

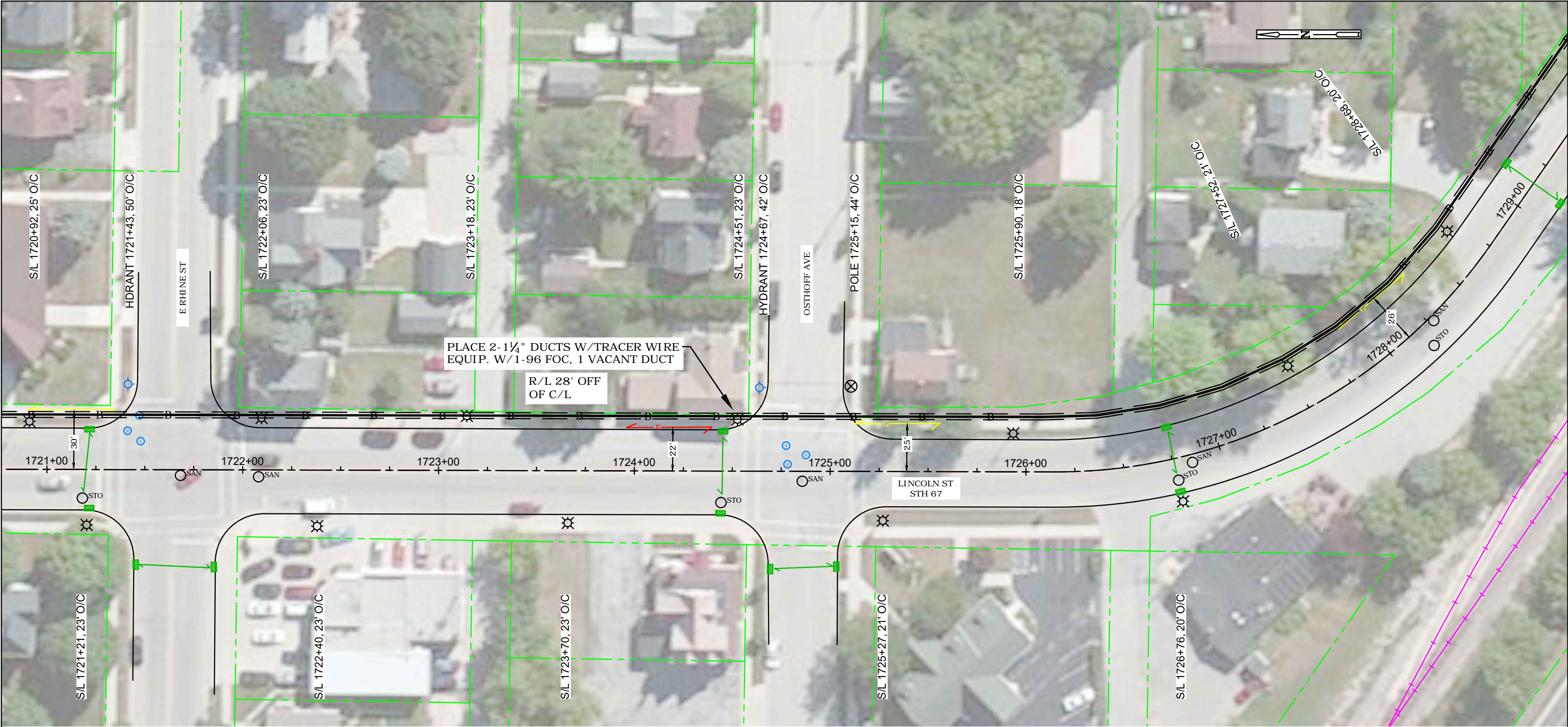
CONT'D PRT 214



CONT'D PRT 216

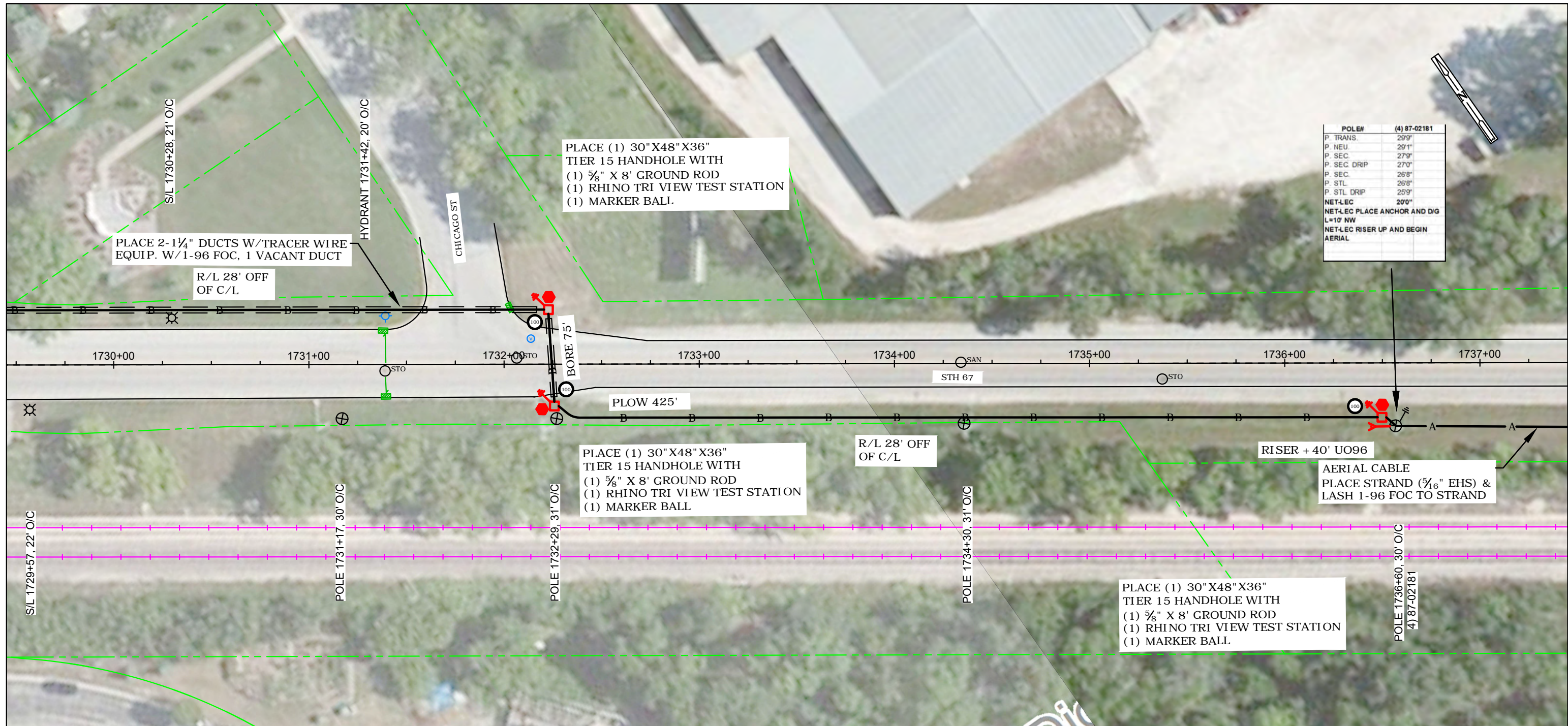
STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div><div>WARNING: BURIED UTILITIES IN AREA</div><div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div><div>CALL FOR LOCATES</div></div>	NSIGHT TELS SERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD	
																																	CALUMET COUNTY, WISCONSIN
																																	SHEET 215 OF 239
																									</								

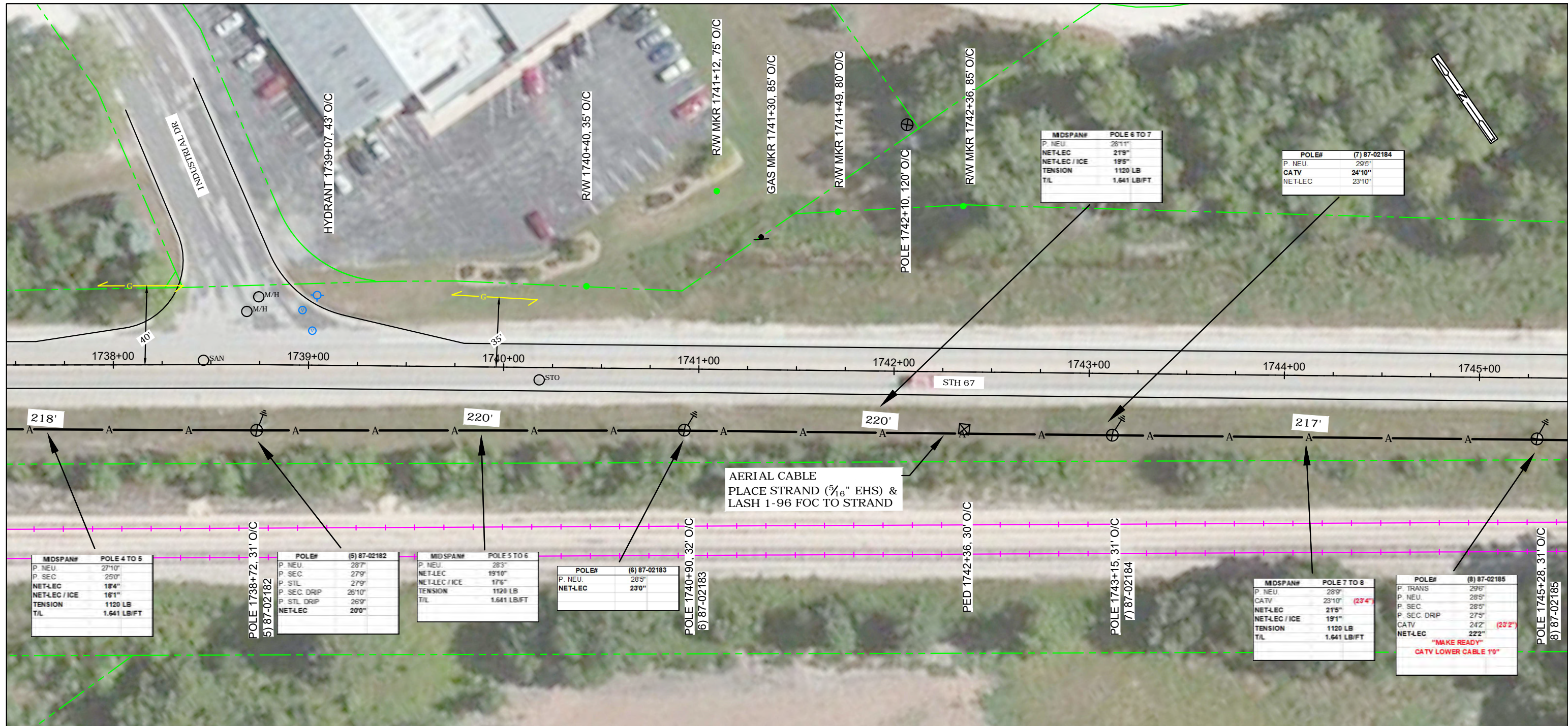
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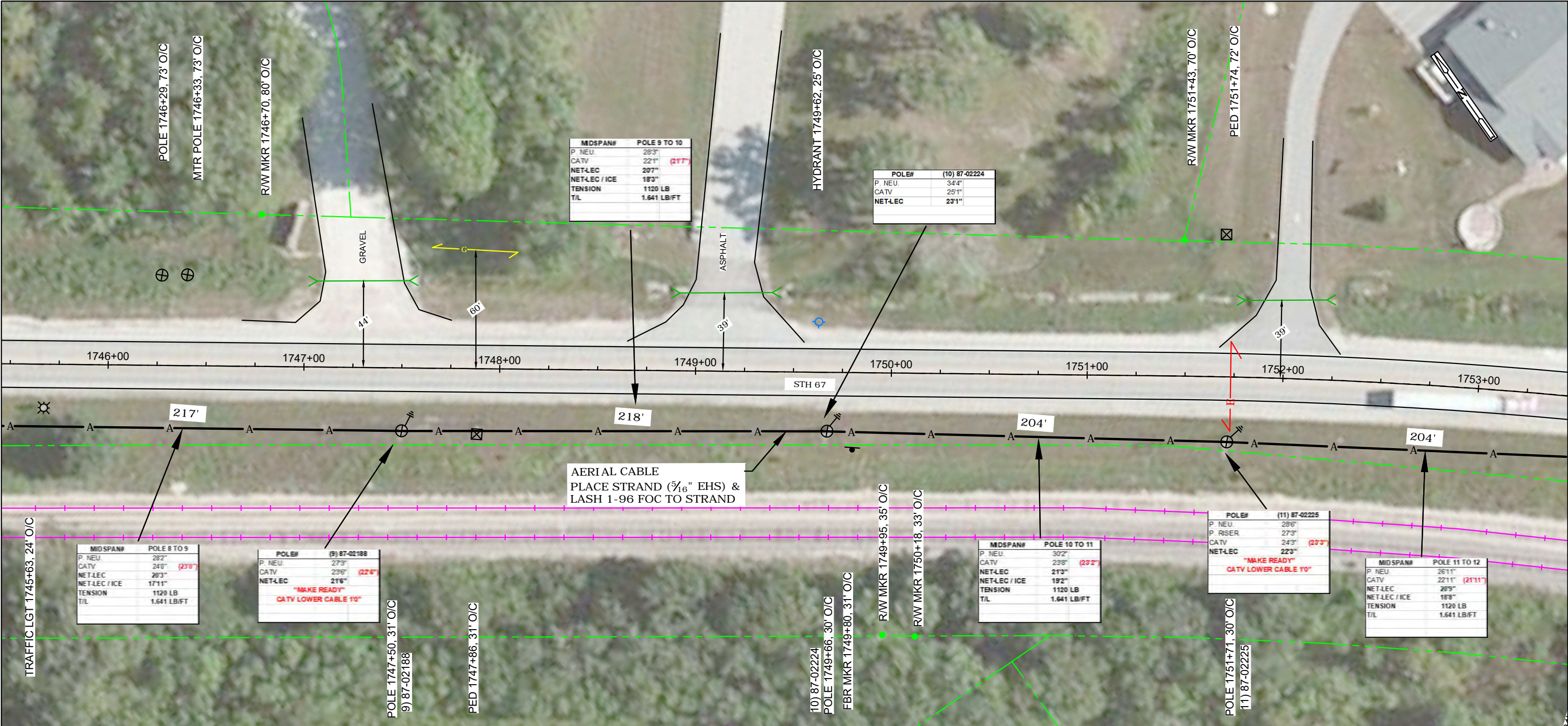
CONT'D PRT 218

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div><div>WARNING: BURIED UTILITIES IN AREA</div><div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div><div>CALL FOR LOCATES</div></div>	NSIGHT TELS SERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ " EHS)	PE 1-3 ($\frac{5}{16}$ " EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD		
																																CALUMET COUNTY, WISCONSIN	
																																SHEET 217 OF 239	
												</																					

[illegible]

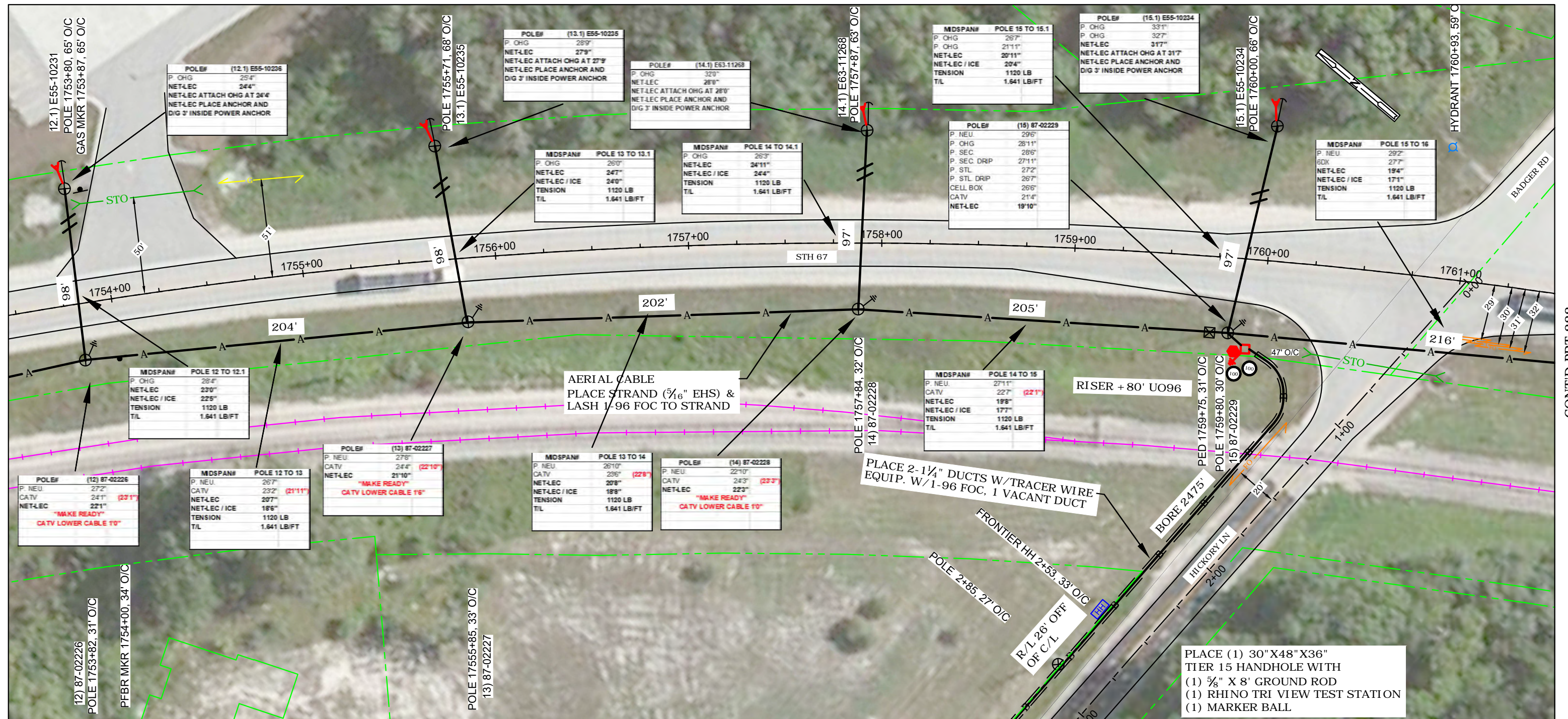
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CONT'D PRT 219



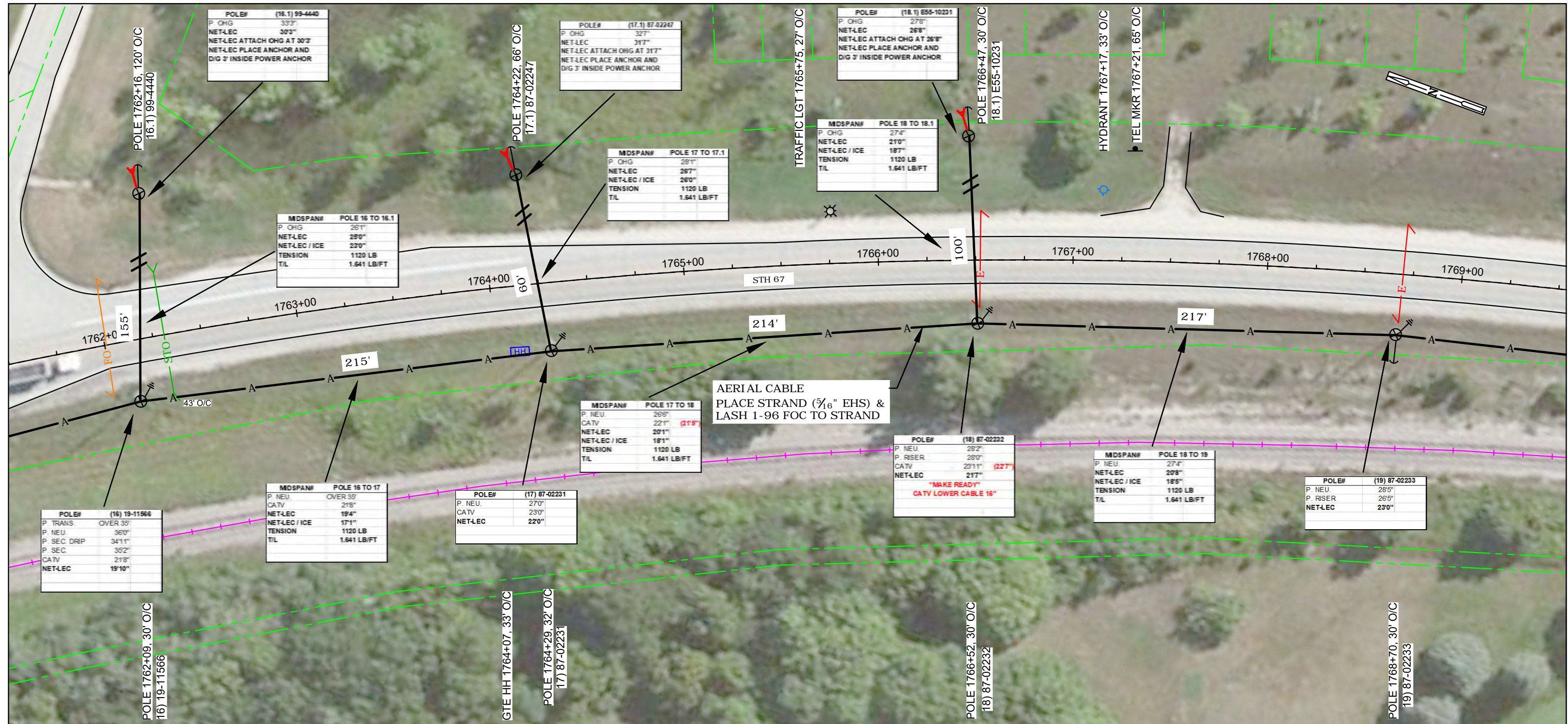
CONT'D PRT 221

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 220 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O. # NL18-47					
																																DRAFTING		BY	DATE		
																																BASE		AL			
																																DESIGN		PC	4/20/20		
																																BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

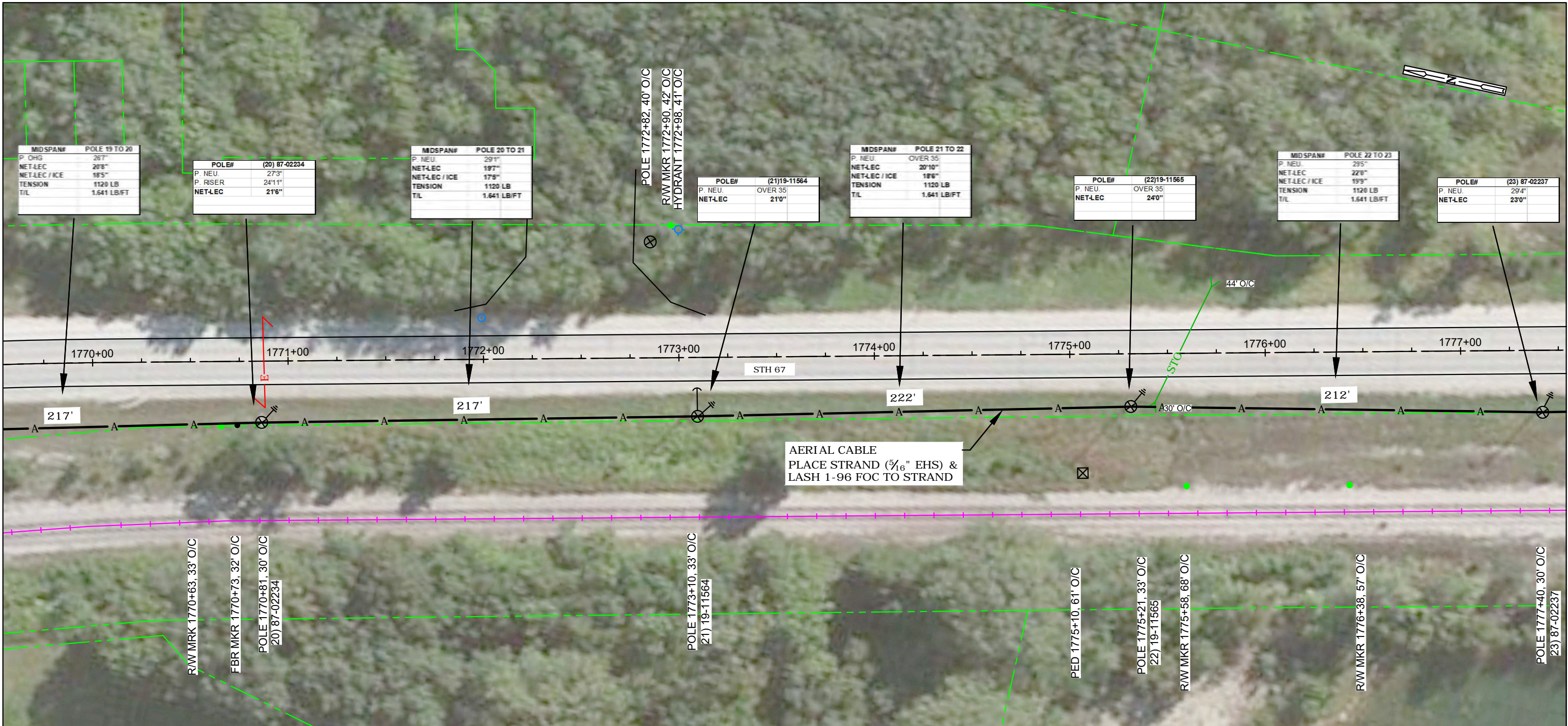


CONFIDENTIAL PRI 222

STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div><div>WARNING: BURIED UTILITIES IN AREA</div><div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div><div>CALL FOR LOCATES</div></div>	NSIGHT TELSERVICES				
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21			EPA	SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
HH	1760+00	1	1	1	80						2		2350	5	5	3	5				12		400									16	SHEET 221 OF 239		
																																	MAP NO.		
																																	FILE NAME: Calumet N18-47 SOUTH.dwg		
																																	P.O. # NL18-47		
																																	DRAFTING	BY	DATE
																																	BASE	AL	
																																	DESIGN	PC	4/20/20
																																	BUILT		
TOTAL:		1	1	1	80	####	####	####	####	####	2	#	2350	5	5	3	5	####	####	12	#	400	####	####	####	####	####	####	####	16	ASBUILT			NOT TO SCALE	

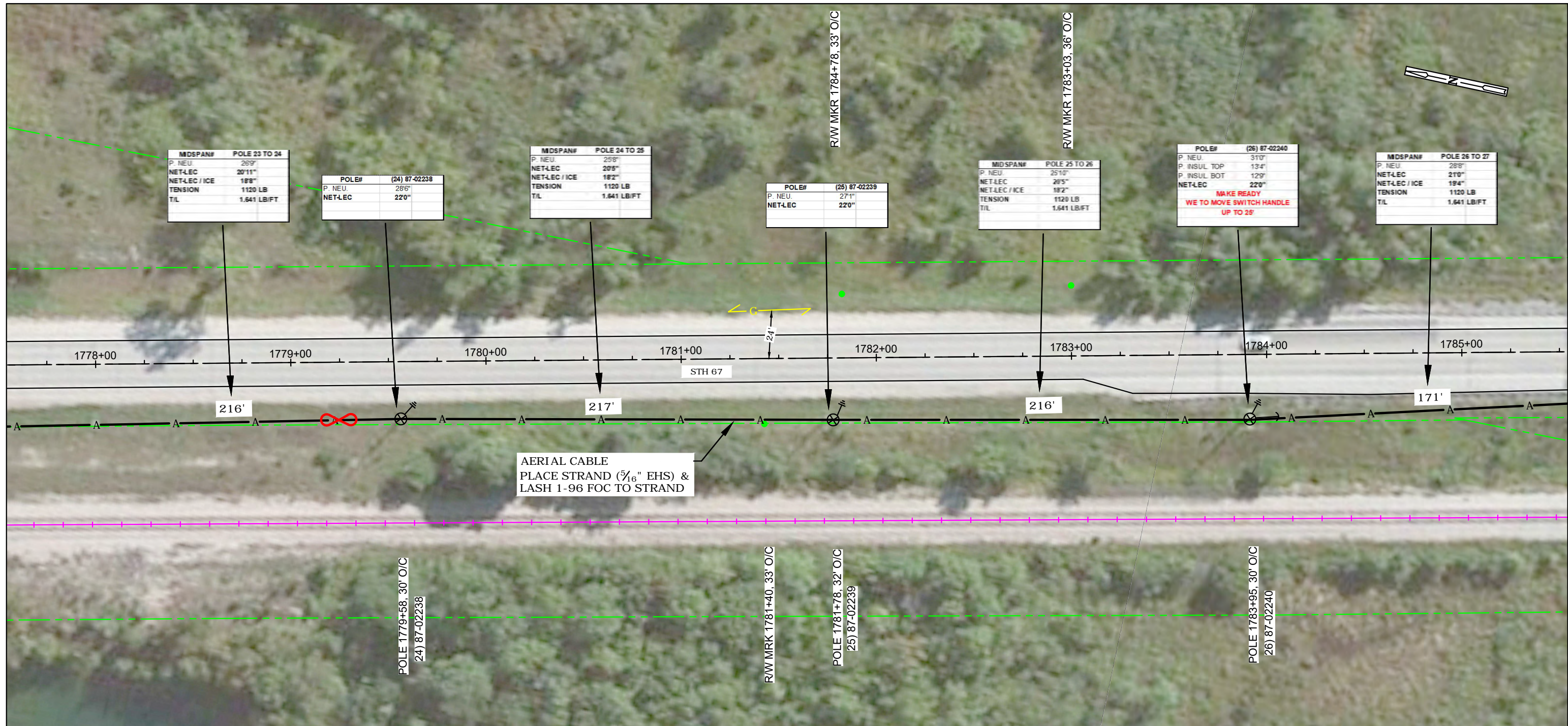
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CONT'D PRT 222

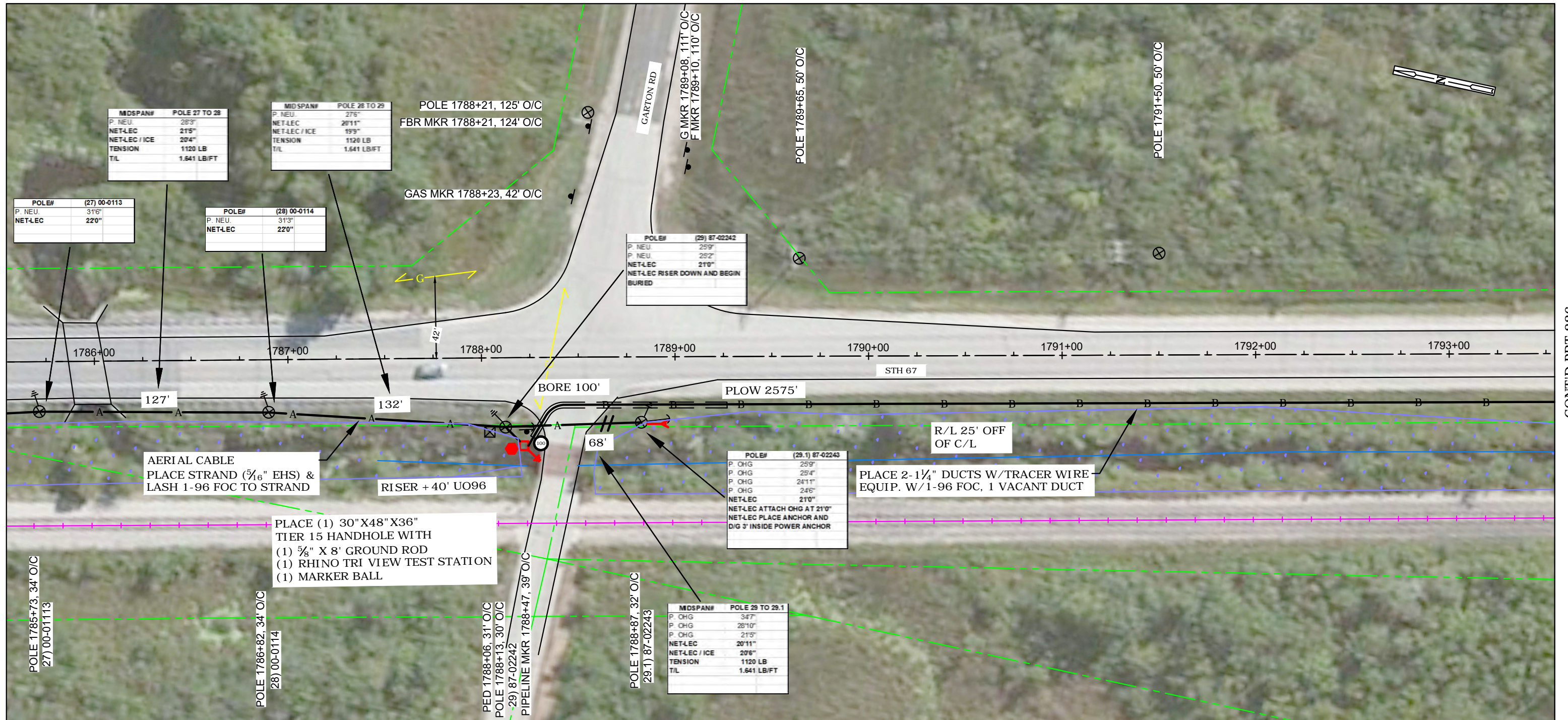


CONT'D PRT 224

[illegible]

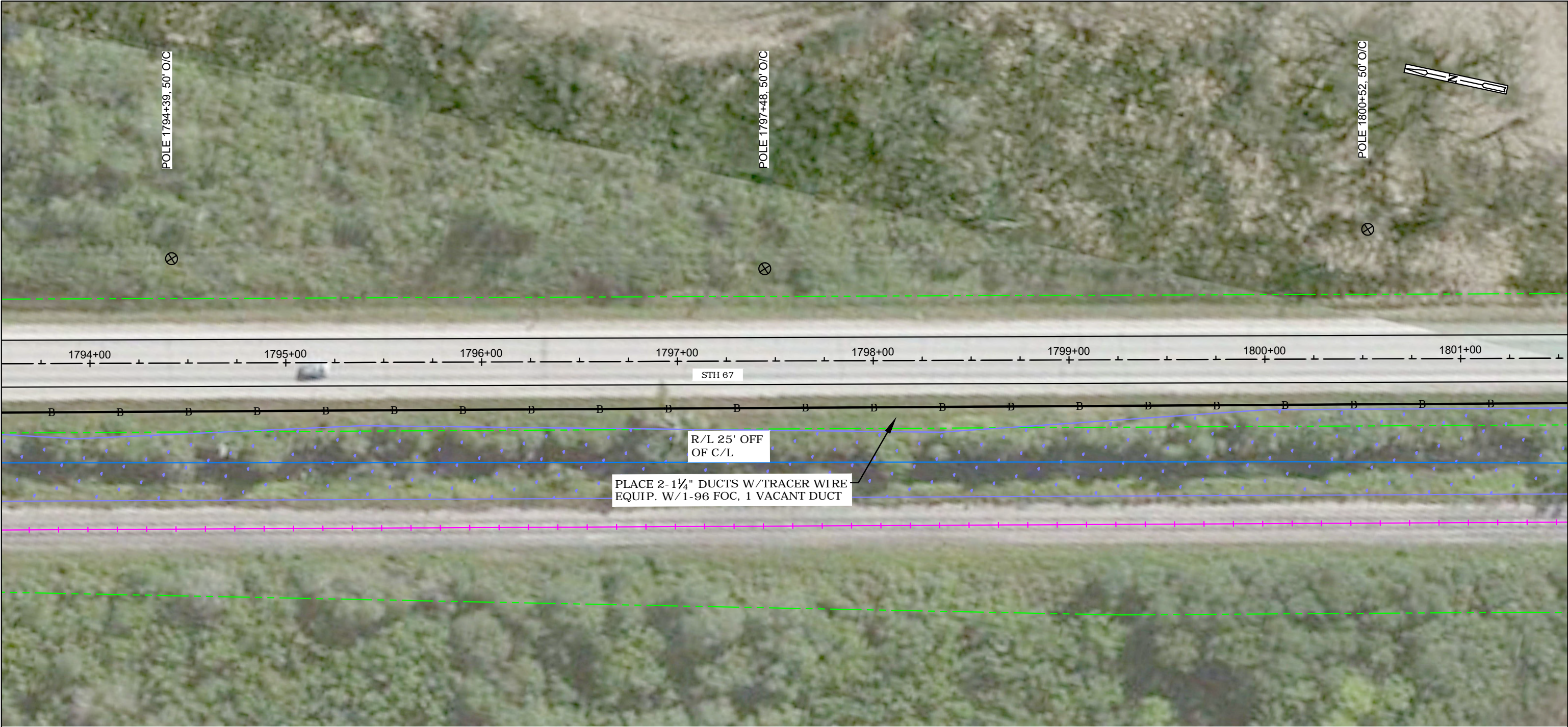


STATIONING INFO		HANDHOLE - MARKER-GND		BURIED						STORAGE		AERIAL								REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>			<div>NSIGHT TELSERVICES</div> <div>SHERWOOD TO PLYMOUTH FIBER BUILD</div> <div>CALUMET COUNTY, WISCONSIN</div> <div>SHEET 224 OF 239</div>					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{5}{16}$ "EHS)	PE 1-3 ($\frac{5}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM							PM 21		EPA
AERIAL																																				
SLACK																																				
LOOP	1779+25				40							1	1925	3	3		3					8	300							11						



STATIONING INFO		HANDHOLE - MARKER-GND			BURIED						STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELSVCES							
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE		UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 ($\frac{7}{16}$ "EHS)	PE 1-3 ($\frac{7}{16}$ "EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN							
HH	1788+25	1	1	1	40						1		900	1	1	3	1					6	70									7	SHEET 225 OF 239						
																																	MAP NO.						
																																	FILED			FILE NAME: Calumet N18-47 SOUTH.dwg			
																																	PLACE CABLE			P.O.# NL18-47			
																																	TAB			DRAFTING		BY	DATE
																																	FINAL QC			BASE		AL	
																																	STAKED			DESIGN		PC	4/20/20
																																	BUILT						
TOTAL:		1	1	1	40	####	#####	#####	#####	#####	1	#####	900	1	1	3	1	#####	#####	#####	6	70	#####	#####	#####	#####	#####	#####	#####	7	ASBUILT			NOT TO SCALE					

CONT'D PRT 225



CONT'D PRT 227

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES		
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD	CALUMET COUNTY, WISCONSIN	

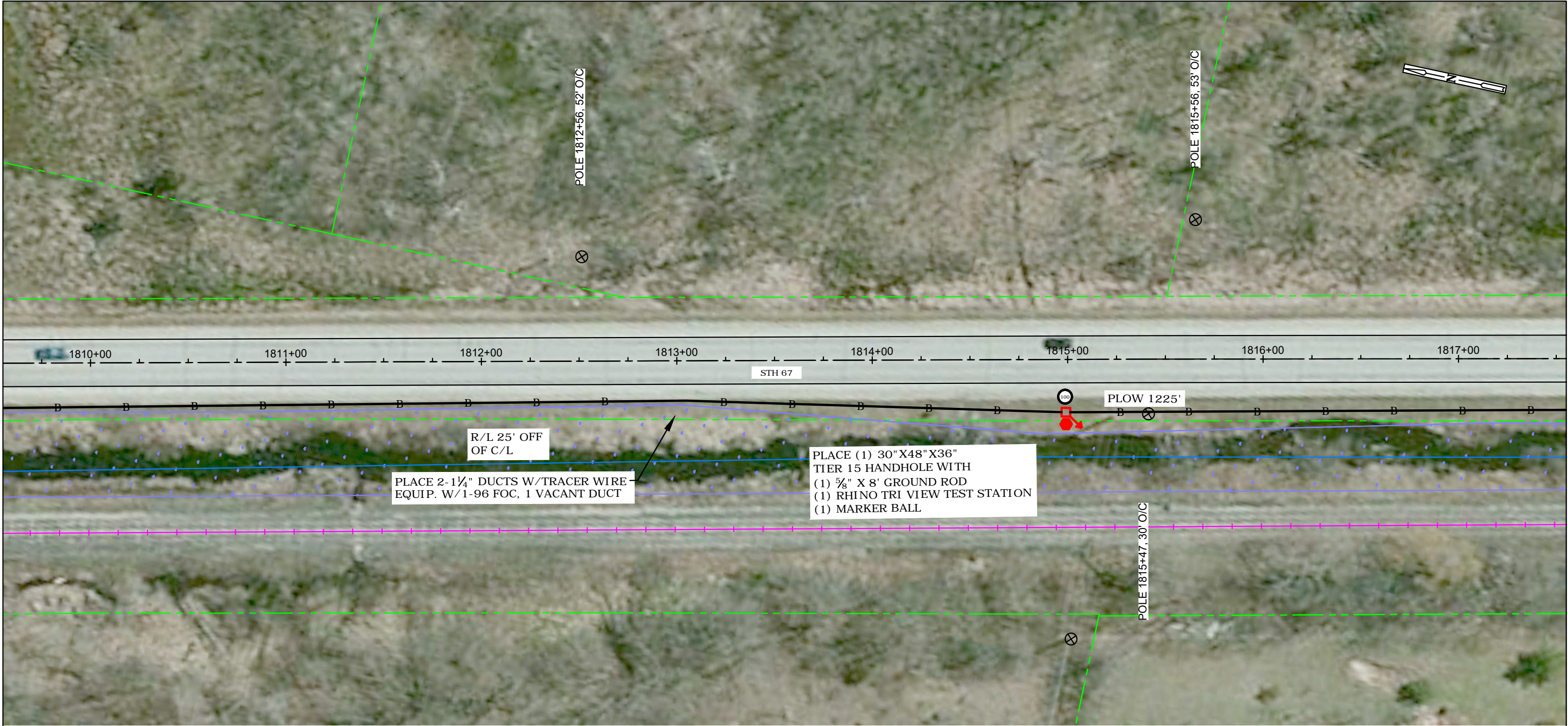
CONT'D PRT 226



CONT'D PRT 228

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 227 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O. # NL18-47					
																																DRAFTING		BY	DATE		
																																BASE		AL			
																																DESIGN		PC	4/20/20		
																																BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

CONT'D PRT 227



CONT'D PRT 229

[illegible]

CONT'D PRT 228



CONT'D PRT 230

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 229 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O. # NL18-47					
																																TAB		DRAFTING		BY	DATE
																																FINAL QC		BASE		AL	
																															STAKED		DESIGN		PC	4/20/20	
																															BUILT						
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT		NOT TO SCALE			

[illegible]

CONT'D PRT 230



CONT'D PRT 232

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 231 OF 239					
																																MAP NO.					
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																																P.O. # NL18-47					
																																DRAFTING		BY	DATE		
																																BASE		AL			
																																DESIGN		PC	4/20/20		
																																BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

CONT'D PRT 232

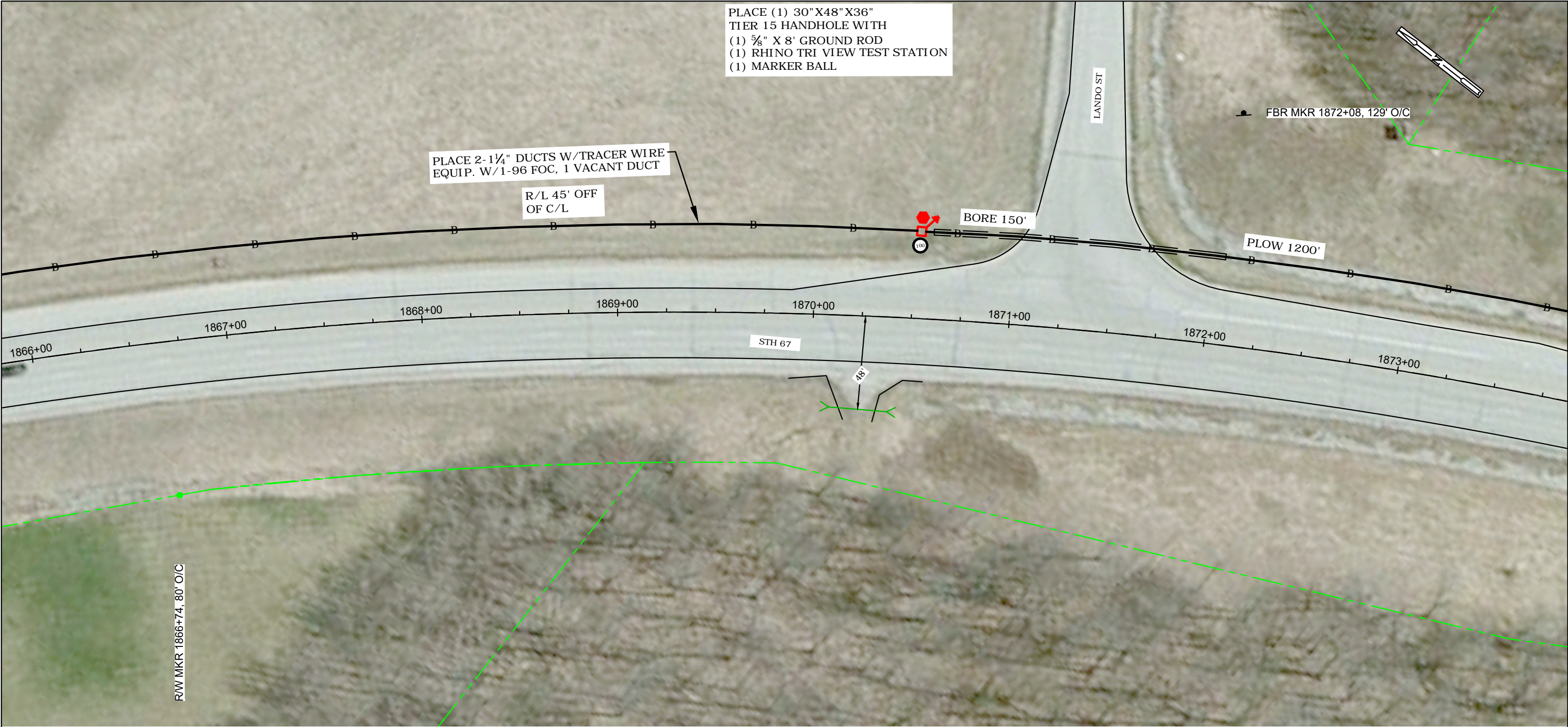


CONT'D PRT 234

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES						
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN						
																																SHEET 233 OF 239					
																																MAP NO.					
																																FILE NAME: Calumet N18-47 SOUTH.dwg					
																																P.O.# NL18-47					
																																DRAFTING		BY	DATE		
																																BASE		AL			
																																DESIGN		PC	4/20/20		
																																BUILT					
TOTAL:		####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	####	#	ASBUILT			NOT TO SCALE		

[illegible]

CONT'D PRT 234



CONT'D PRT 236

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES					
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN					
HH	1870+50	1	1	1	2600	1800	800			1																						SHEET 235 OF 239				
																																MAP NO.				
																																FILED		FILE NAME: Calumet N18-47 SOUTH.dwg		
																																PLACE CABLE		P.O. # NL18-47		
																																TAB		DRAFTING	BY	DATE
																																FINAL QC		BASE	AL	
																																STAKED		DESIGN	PC	4/20/20
																																BUILT				
TOTAL:		1	1	1	2600	1800	800	####	#####	#####	1	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#	ASBUILT			NOT TO SCALE		

CONT'D PRT 235



CONT'D PRT 237

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY CALL FOR LOCATES</div>	<div>NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN SHEET 236 OF 239</div>			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA					

CONT'D PRT 236



CONT'D PRT 238

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16" EHS)	PE 1-3 (5/16" EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16" EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD			
HH	1884+00	1	1	1	1350	1200	150			1																						CALUMET COUNTY, WISCONSIN		
																																SHEET 237 OF 239		

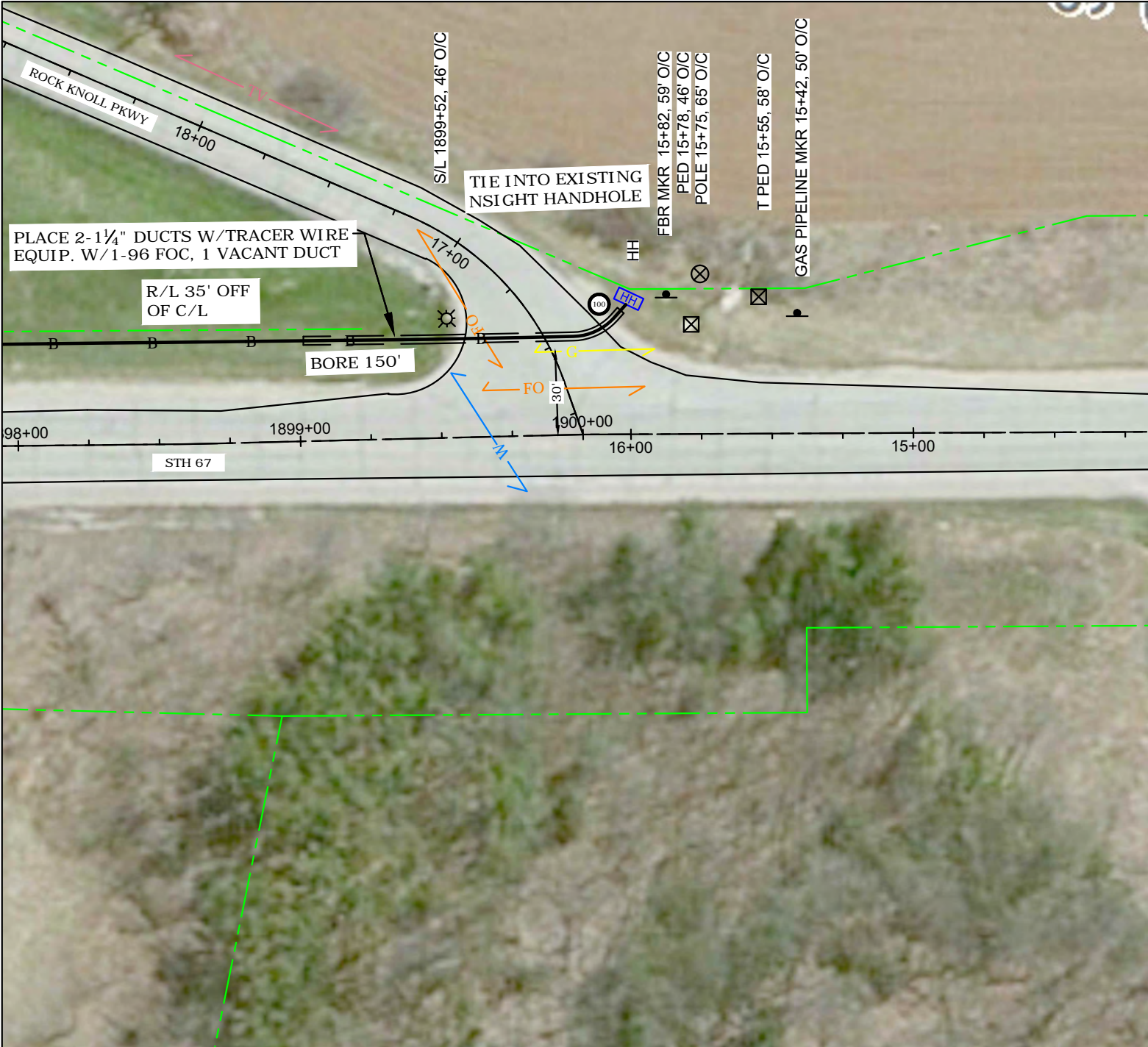
CONT'D PRT 237



CONT'D PRT 239

STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES			
OBJECT	STATION	UH 2 (30X48X36) TIER 15	BM 53	BM 2 (5/8) (8)	UO 96	UD (1.25) 2 W/TRACER WIRE	BM61D (1.25) 2 W/TRACE	UO (1X2X1.25) W/TRACE WIRE		BMSC (100)	PMBT (96) 150'	CO 96 (5/16"EHS)	PE 1-3 (5/16"EHS)	PF 1-5	BM82 (8')	PM 11	A35-5	A40-5	PM 2	PM 2A	PE2-3 (5/16"EHS)	BM 72	BM 73	R 3-5		WHM	PM 21		EPA		SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN			
																																SHEET 238 OF 239		

CONT'D PRT 238



STATIONING INFO		HANDHOLE - MARKER-GND			BURIED					STORAGE		AERIAL										REMOVAL/REPLACEMENT				MISC.				<div>WARNING: BURIED UTILITIES IN AREA</div> <div>NOTE: UTILITIES SHOWN ON MAP ARE FOR REFERENCE ONLY</div> <div>CALL FOR LOCATES</div>	NSIGHT TELS SERVICES SHERWOOD TO PLYMOUTH FIBER BUILD CALUMET COUNTY, WISCONSIN				
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EX HH					1650	1150	500			1																									



SDD 15D28 Traffic Control, Work on Shoulder or Parking Lane, Undivided Roadway

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

If vehicles/equipment are within 15' of travel way edgeline,
a shoulder closure is required to be in place.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

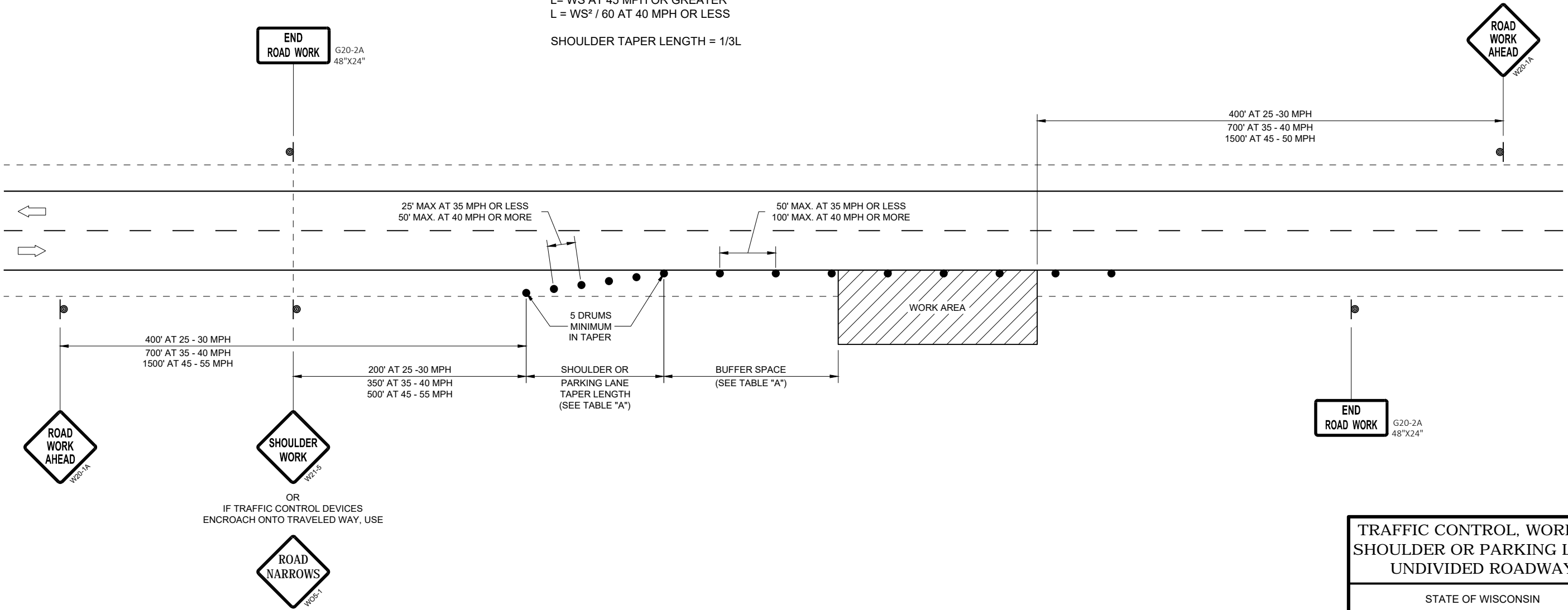
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

6

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SDD 15D28 - 03

SDD 15D28 - 03

TRAFFIC CONTROL, WORK ON
SHOULDER OR PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE
/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER
FHWA



SDD 15D28 Traffic Control, Work on Shoulder or Parking Lane, Undivided Roadway

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

If shoulder closure encroaches onto or over the travel way edgeline, a lane closure with flagging should be utilized instead.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

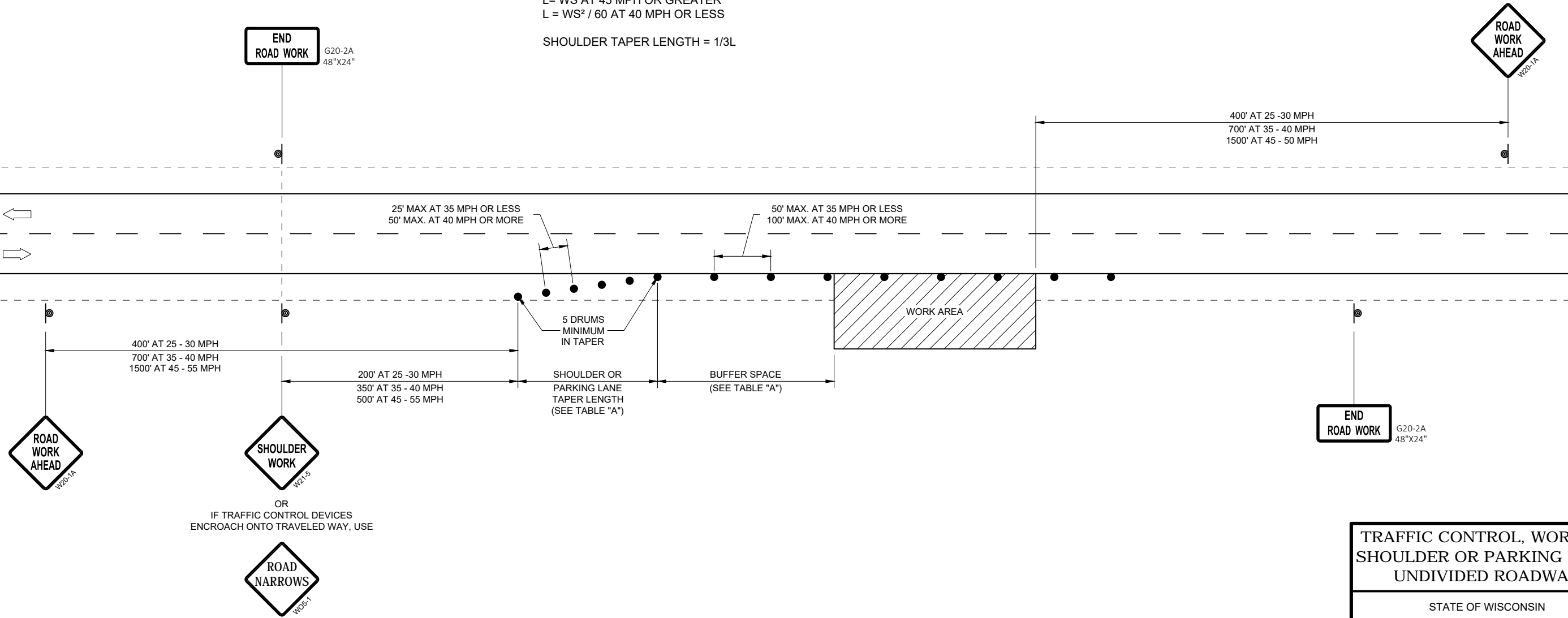
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

6

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SDD 15D28 - 03

SDD 15D28 - 03

TRAFFIC CONTROL, WORK ON
SHOULDER OR PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE /S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER
FHWA



SDD 15C12 Traffic Control for Lane Closure With Flagging Operation

LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

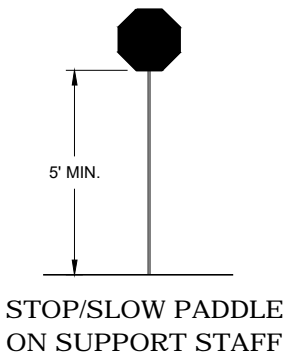
- EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

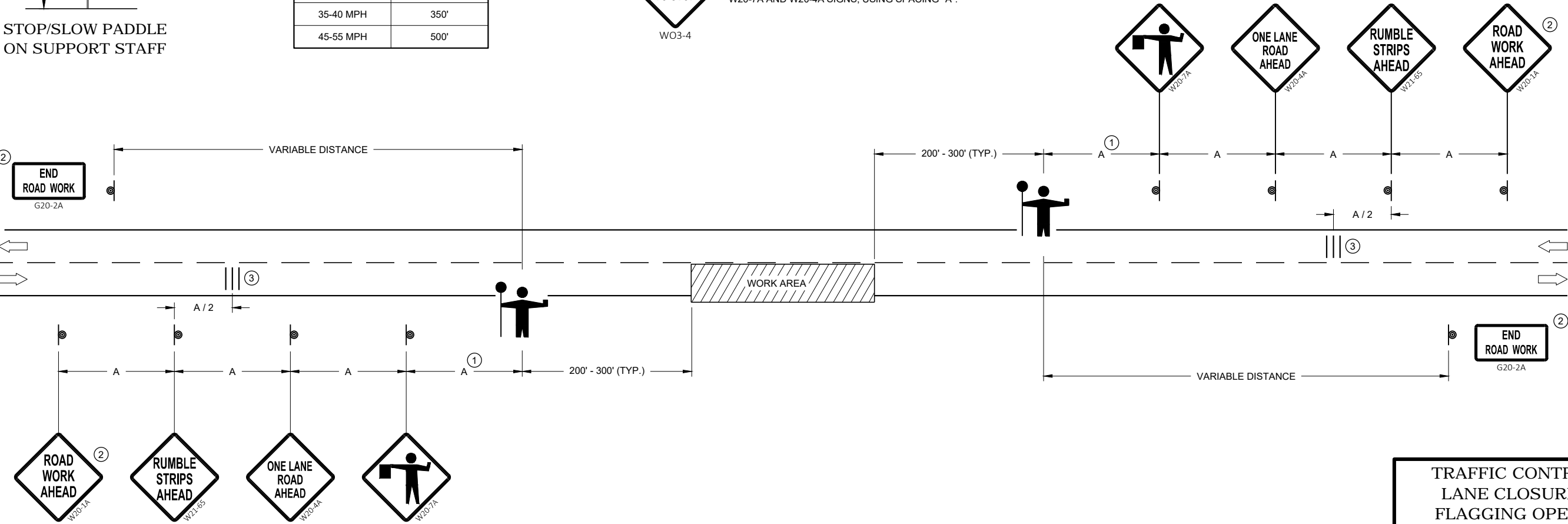


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR
LANE CLOSURE WITH
FLAGGING OPERATION

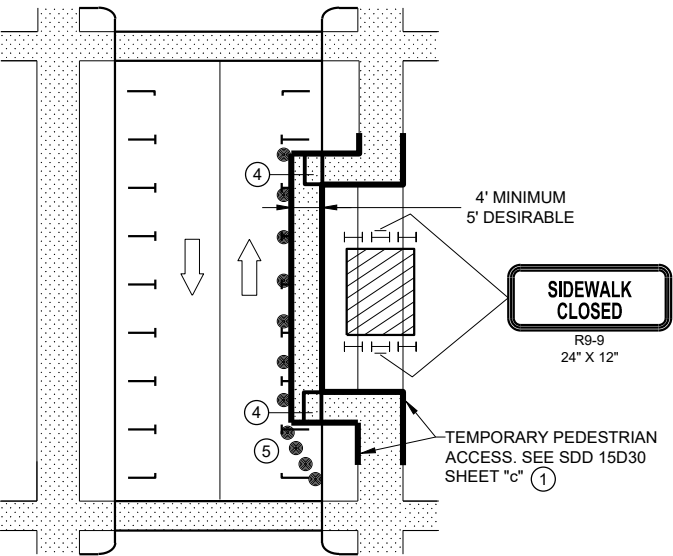
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

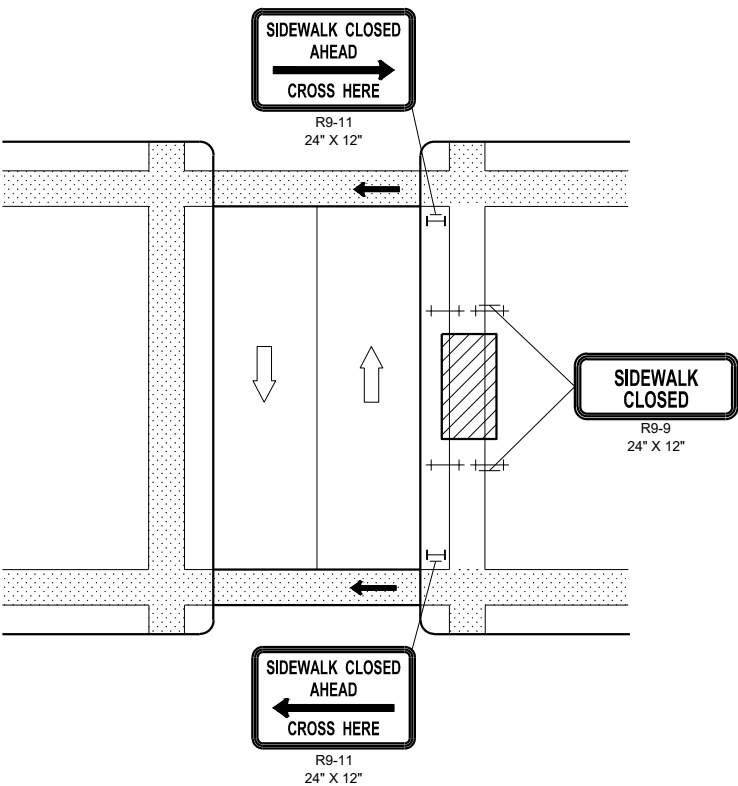


SDD 15D30-a Traffic Control, Pedestrian Accommodation

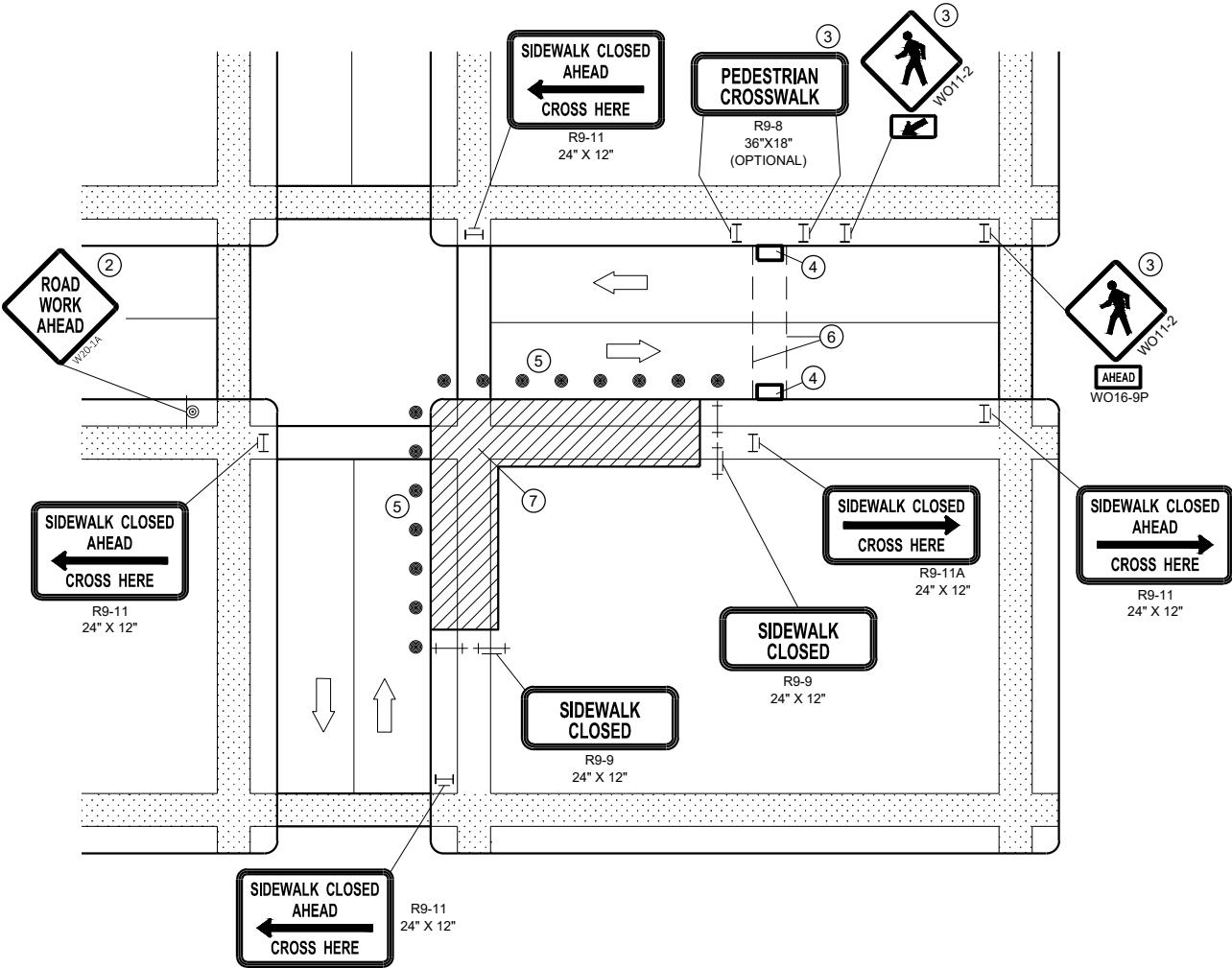
NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.



MID-BLOCK SIDEWALK CLOSURE
IN PARKING LANE

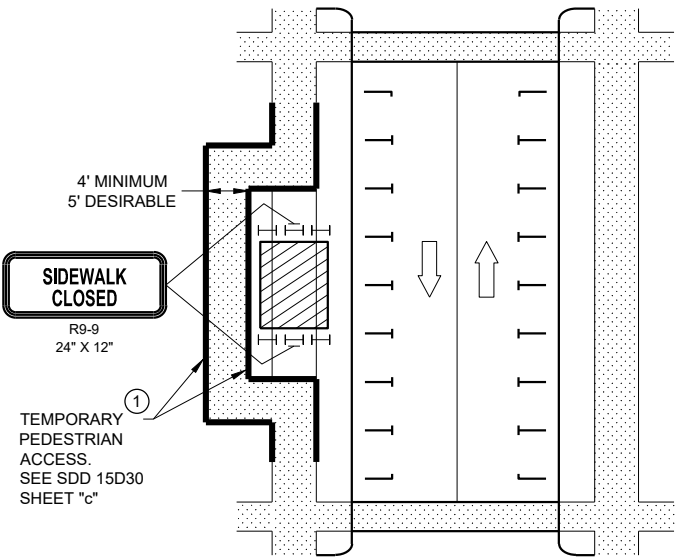


MID-BLOCK SIDEWALK
CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

- IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
- "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
- TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b".
- DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

**TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION