





# Engineering Department

City of La Crosse

400 La Crosse Street

La Crosse, WI 54601-3396

608) 789-7505

FAX (608) 789-8184

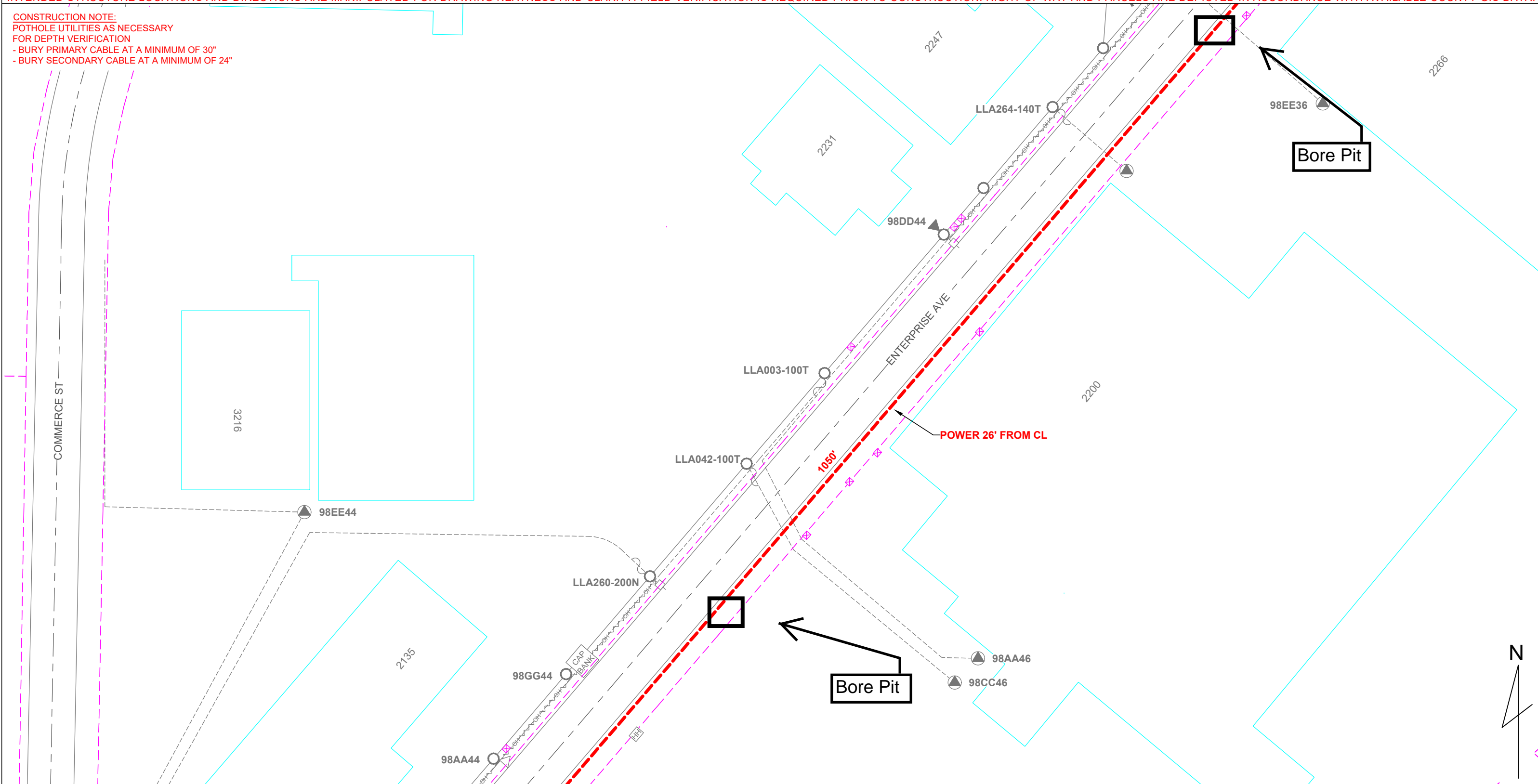
## Excavations and Openings Factsheet

- When is a permit needed?
  - Anytime you make any excavation or opening in the Right of Way which includes any street, alley, highway, boulevard or sidewalk.
- Cost
  - \$35
- Bond
  - Before permit can be issued, deposit with engineering department an Indemnity Bond of \$10,000.00.
- Insurance
  - Carry comprehensive General Liability Insurance and completed Operations Insurance.
  - Minimum combined single limit of \$500,000 for bodily injury & property damage per occurrence.
  - The insurance required shall be written by insurance companies who are rated "B" or better in Best's Key Rating Guide and shall be licensed to do business in the state of Wisconsin.
  - The Certificate of Insurance MUST name the City of La Crosse as Additional Insured.
- Regulations
  - No openings when ground is frozen except in emergencies.
  - Opening shall be enclosed with sufficient barriers .
  - All necessary precautions shall be taken to guard the public effectively from accidents or damage to persons or property.
  - Temporary traffic control shall be provided and maintained by the applicant and shall comply with Part 6 of the Manual on Uniform Traffic Control Devices.
  - All materials removed or penetrated must be replaced as soon as possible to their original condition and be maintained for 3 years.
  - Backfilling the opening, material shall be placed in maximum 12 inch lifts with each lift thoroughly compacted by mechanical means to a 95% of standard proctor density.
  - Excavations in streets paved in the last 5 years are prohibited except in the case of emergencies determined by the Board of Public Works.
  - Emergency excavations are authorized for any person / agency owning or controlling any sewer, water main, conduit, or utility. You may take immediate proper emergency measures to remedy dangerous conditions for the protection of property, life, health, or safety without first obtaining an excavation permit; provided that such person shall apply for an excavation permit not later than the end of the next succeeding business day.



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**CONSTRUCTION NOTE:**  
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 - BURY PRIMARY CABLE AT A MINIMUM OF 30"  
 - BURY SECONDARY CABLE AT A MINIMUM OF 24"



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NEW LINE UG		GAS	
EXISTING LINE UG		WATER	
EXISTING LINE OH		ELECTRICAL	
NEW 3PH LINE OH		STORM	
NEW 1PH LINE OH		SANITARY	
SPLICE NEW WITH EXISTING		CABLE TV	
		TELEPHONE	

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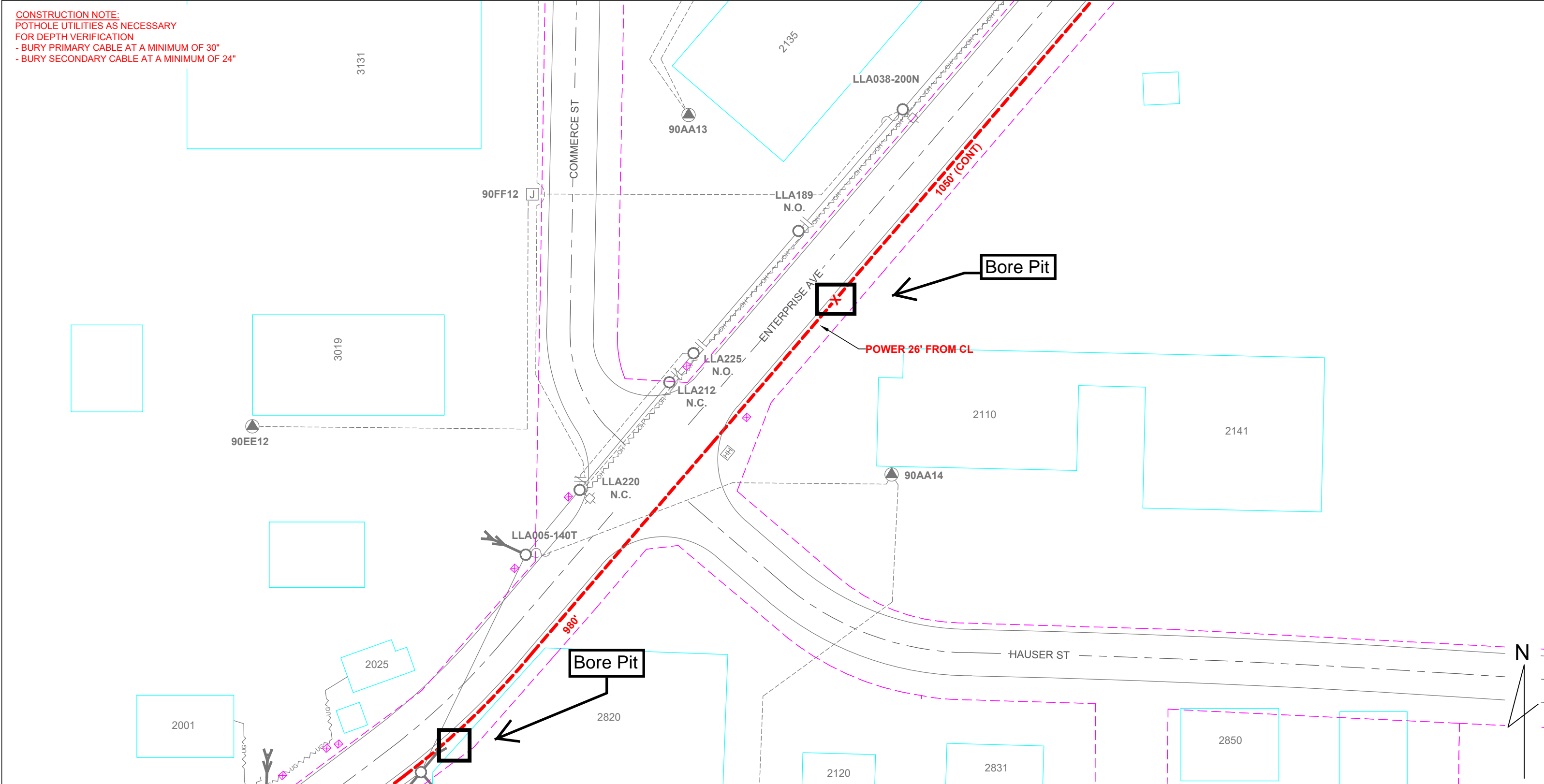


XCEL ENERGY WORK ORDER #	
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DRAFT BY:	DATE:
R.L.	5/27/2021
DESIGNED BY:	DATE:
A.L.	
FEEDER:	VOLTAGE:
MAF076	

LOCATION:  
LACROSSE, WI

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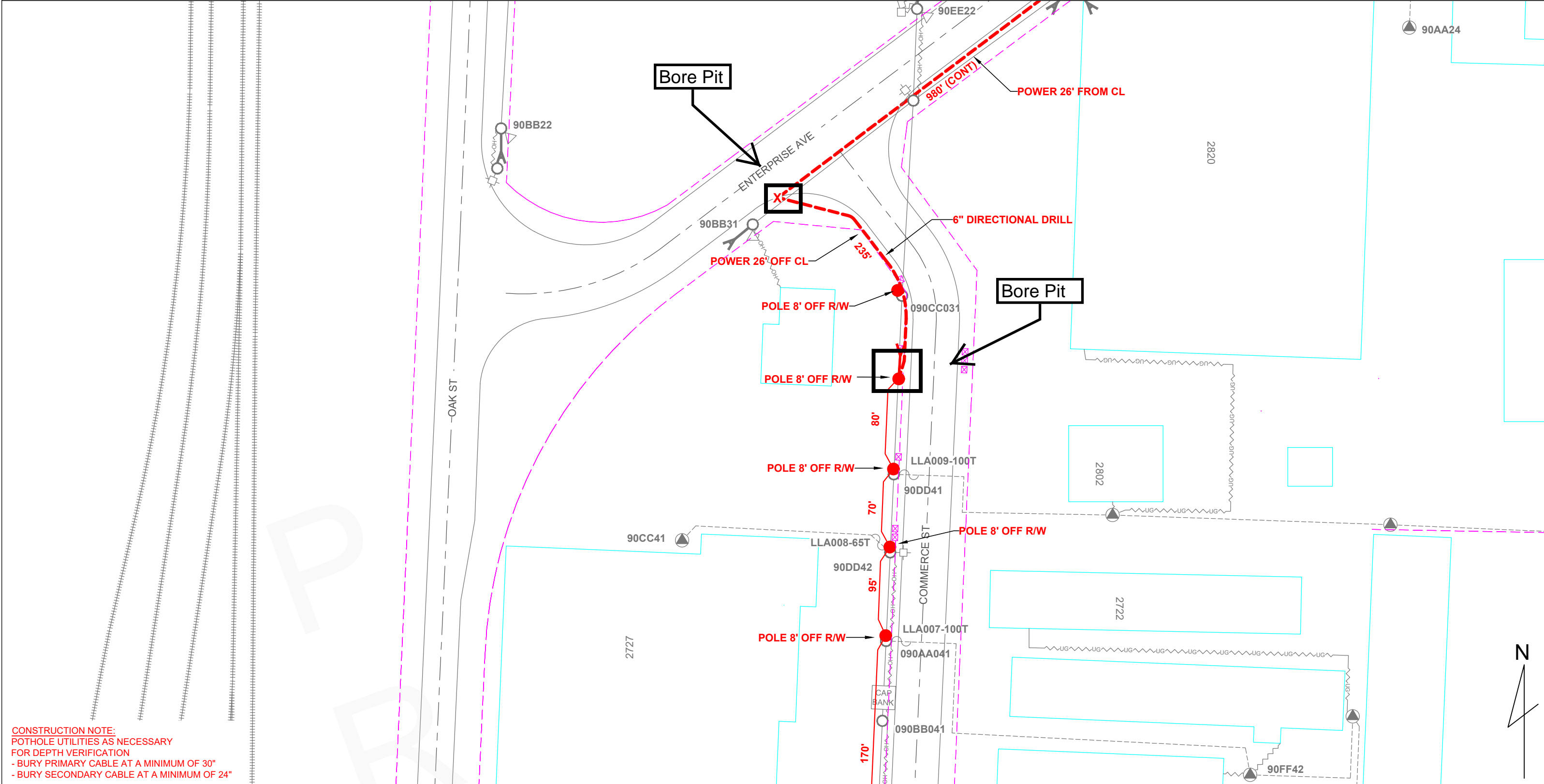
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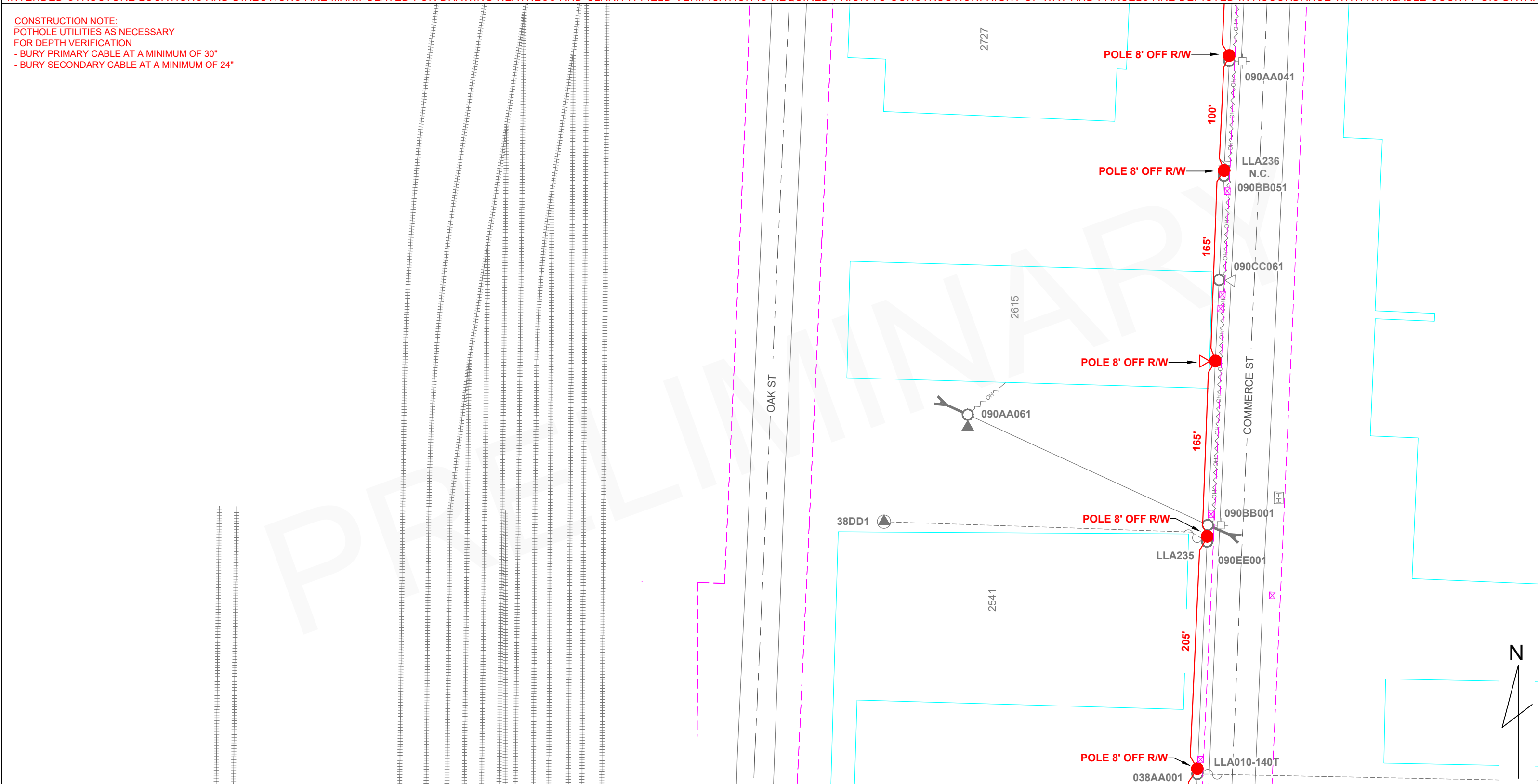
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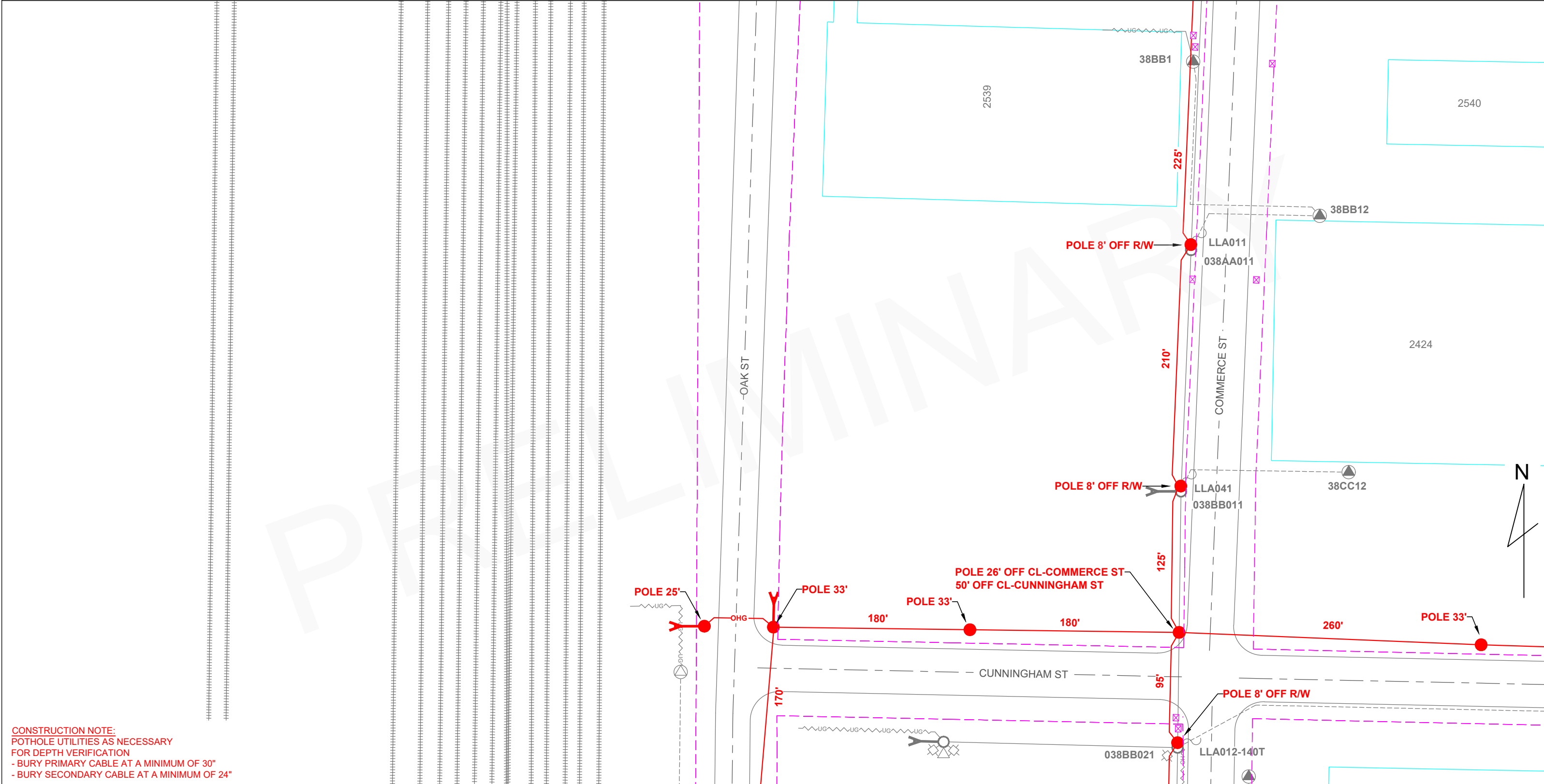
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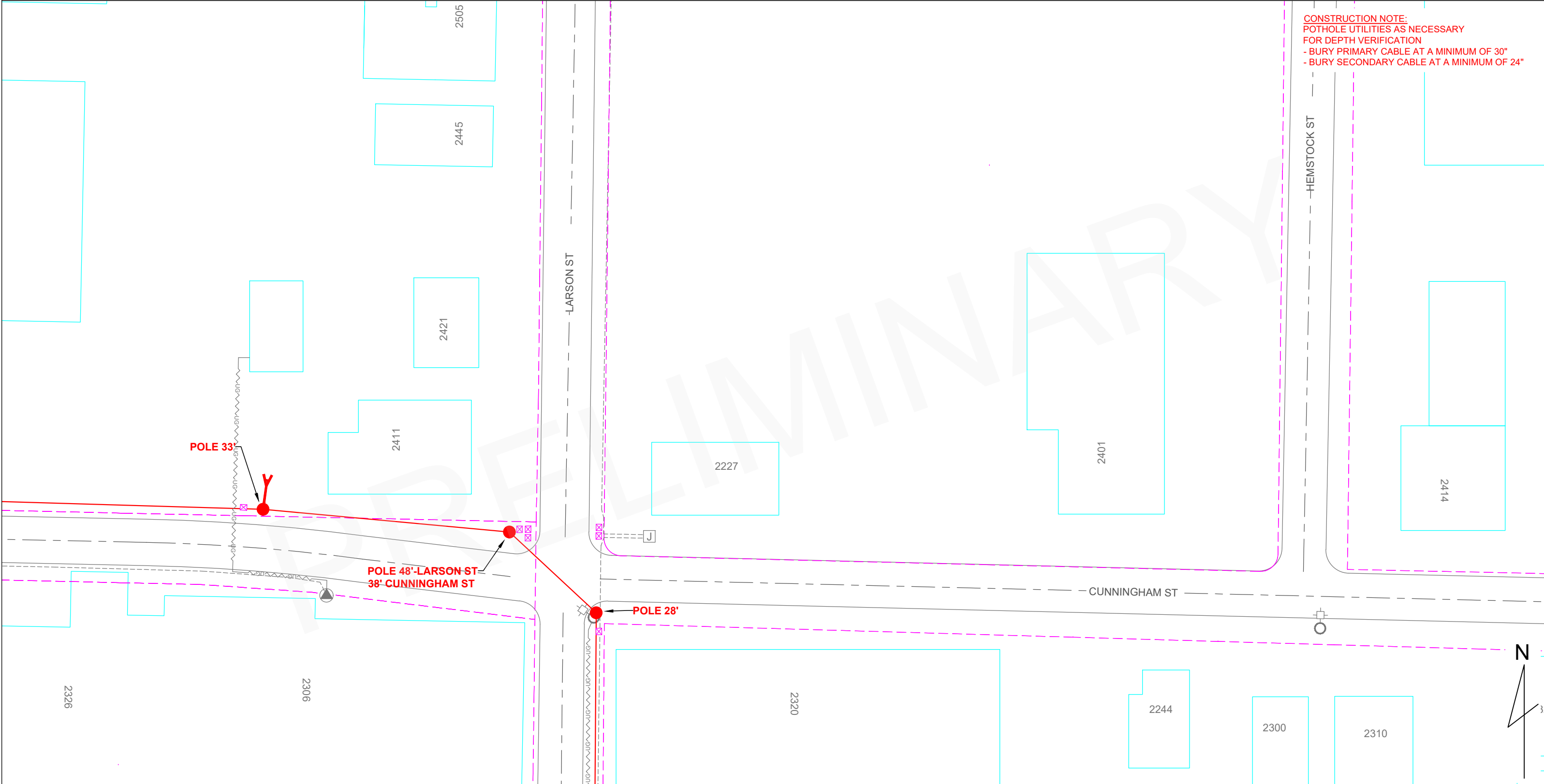
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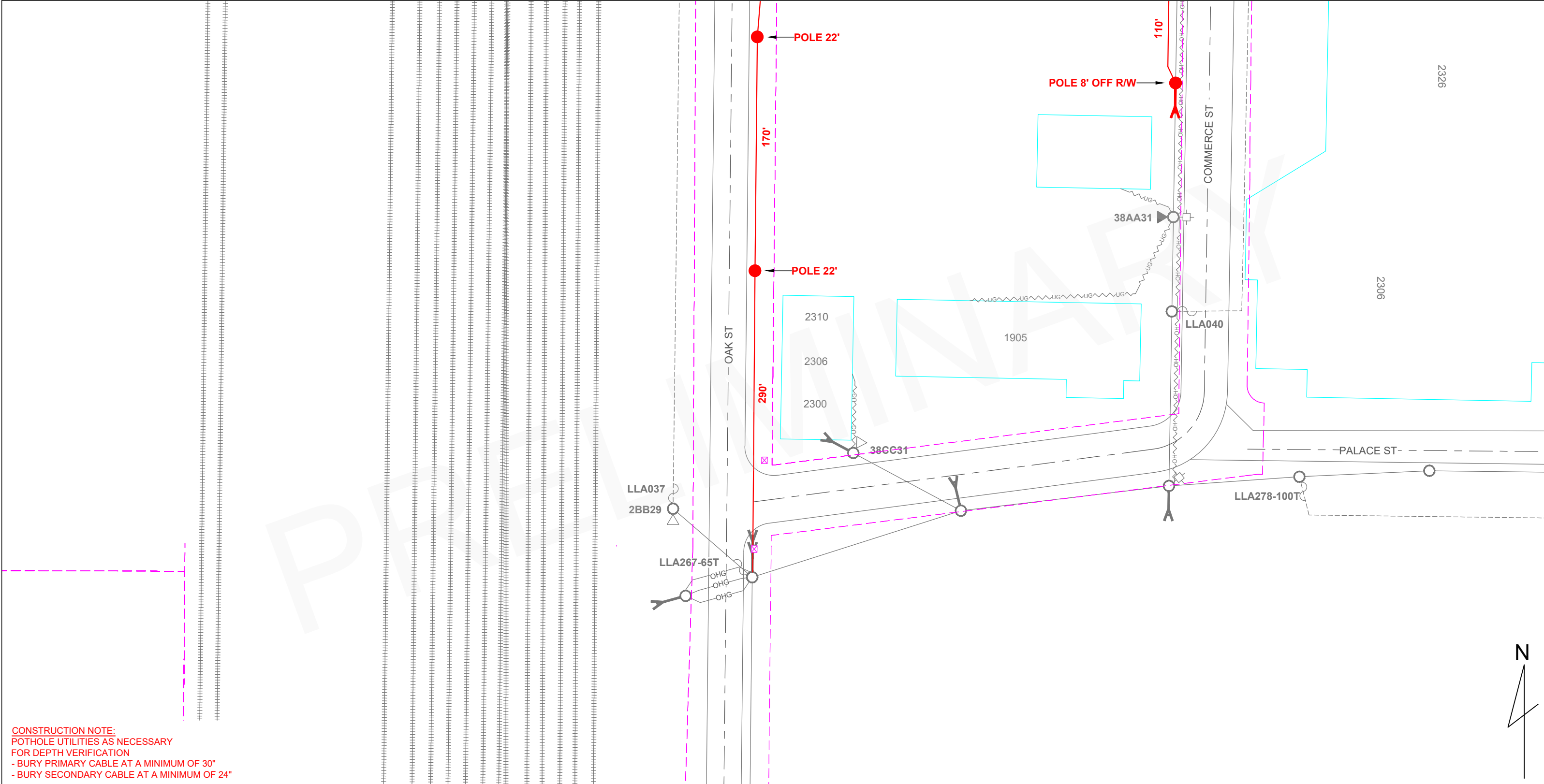
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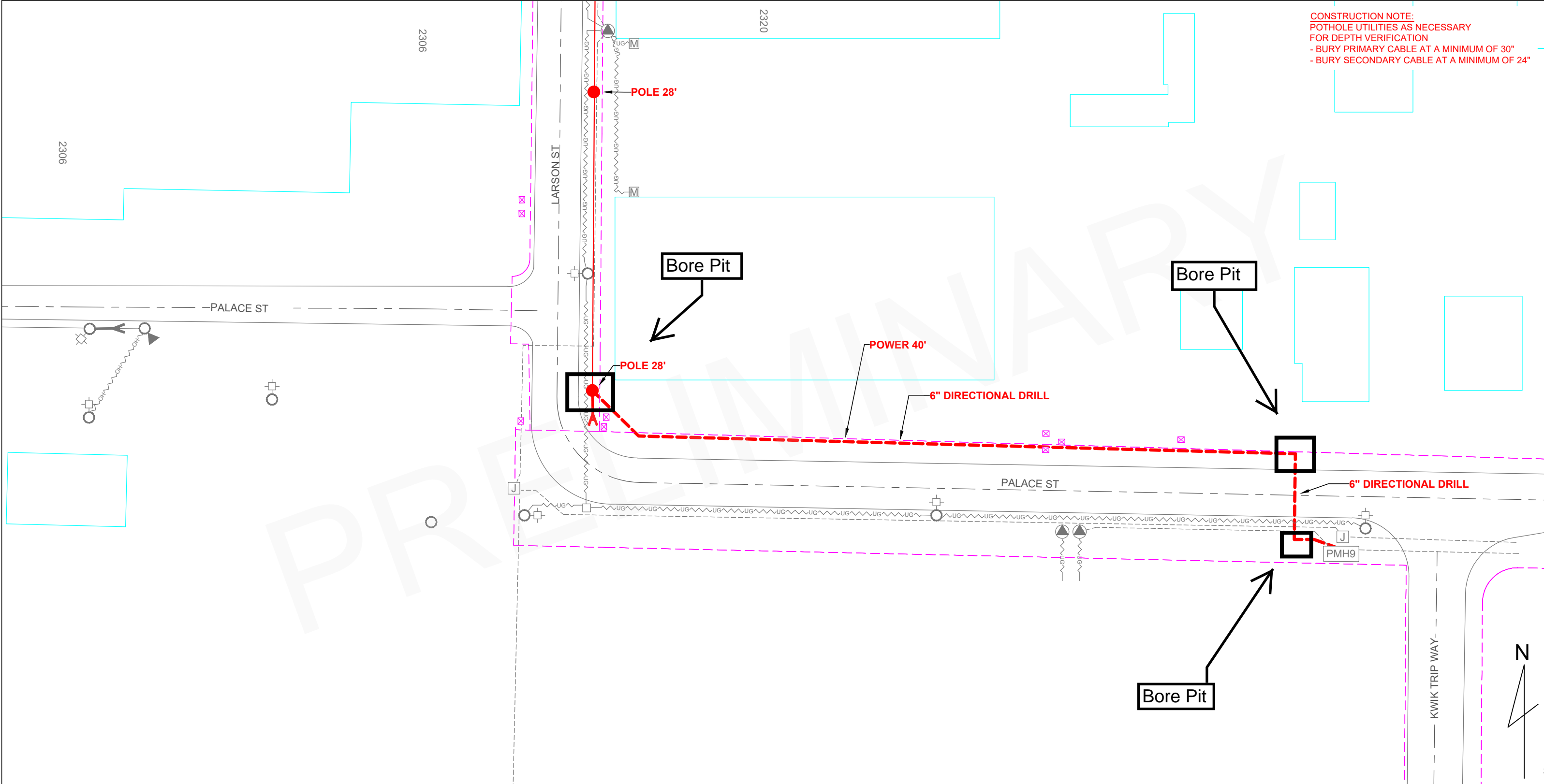


XCEL ENERGY WORK ORDER #	
FIELDER BY:	DATE:
A.L.	1/26/2020
DRAFTED BY:	DATE:
R.L.	5/27/2021
DESIGNED BY:	DATE:
A.L.	
FEEDER:	VOLTAGE:
MAF076	

LOCATION: LACROSSE, WI



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**CONSTRUCTION NOTE:**  
 POT HOLE UTILITIES AS NECESSARY FOR DEPTH VERIFICATION  
 - BURY PRIMARY CABLE AT A MINIMUM OF 30"  
 - BURY SECONDARY CABLE AT A MINIMUM OF 24"

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EXISTING SECONDARY/SERVICE		LINETYPES	
NEW SECONDARY		EXISTING ROW	
NEW LINE UG		GAS	
EXISTING LINE UG		WATER	
EXISTING LINE OH		ELECTRICAL	
NEW 3PH LINE OH		STORM	
NEW 1PH LINE OH		SANITARY	
SPLICE NEW WITH EXISTING		CABLE TV	
		TELEPHONE	

	TRANSFORMER 3PH PAD MOUNTED NEW		TRANSMISSION POLE NEW
	TRANSFORMER 3PH PAD MOUNTED EXISTING		TRANSMISSION POLE EXISTING
	TRANSFORMER 1PH PAD MOUNTED NEW		POLE EXISTING
	TRANSFORMER 1PH PAD MOUNTED EXISTING		ANCHOR NEW
	TRANSFORMER 3PH POLE MOUNTED NEW		ANCHOR EXISTING
	TRANSFORMER 3PH POLE MOUNTED EXISTING		FUSE NEW
	TRANSFORMER 2PH POLE MOUNTED NEW		FUSE EXISTING
	TRANSFORMER 2PH POLE MOUNTED EXISTING		GROUND NEW
	TRANSFORMER 1PH POLE MOUNTED NEW		GROUND EXISTING
	TRANSFORMER 1PH POLE MOUNTED EXISTING		

SYMBOL LEGEND	
	NEW POLE
	POWER PED NEW
	POWER PED EXISTING
	WARNING MARKER
	METER
	PHASE
	SIGNS
	STREET LIGHT
	COMM PEDESTAL
	CAPACITOR NEW
	CAPACITOR EXISTING
	SWITCH N.O. NEW
	SWITCH N.O. EXISTING
	SWITCH N.C. NEW
	SWITCH N.C. EXISTING

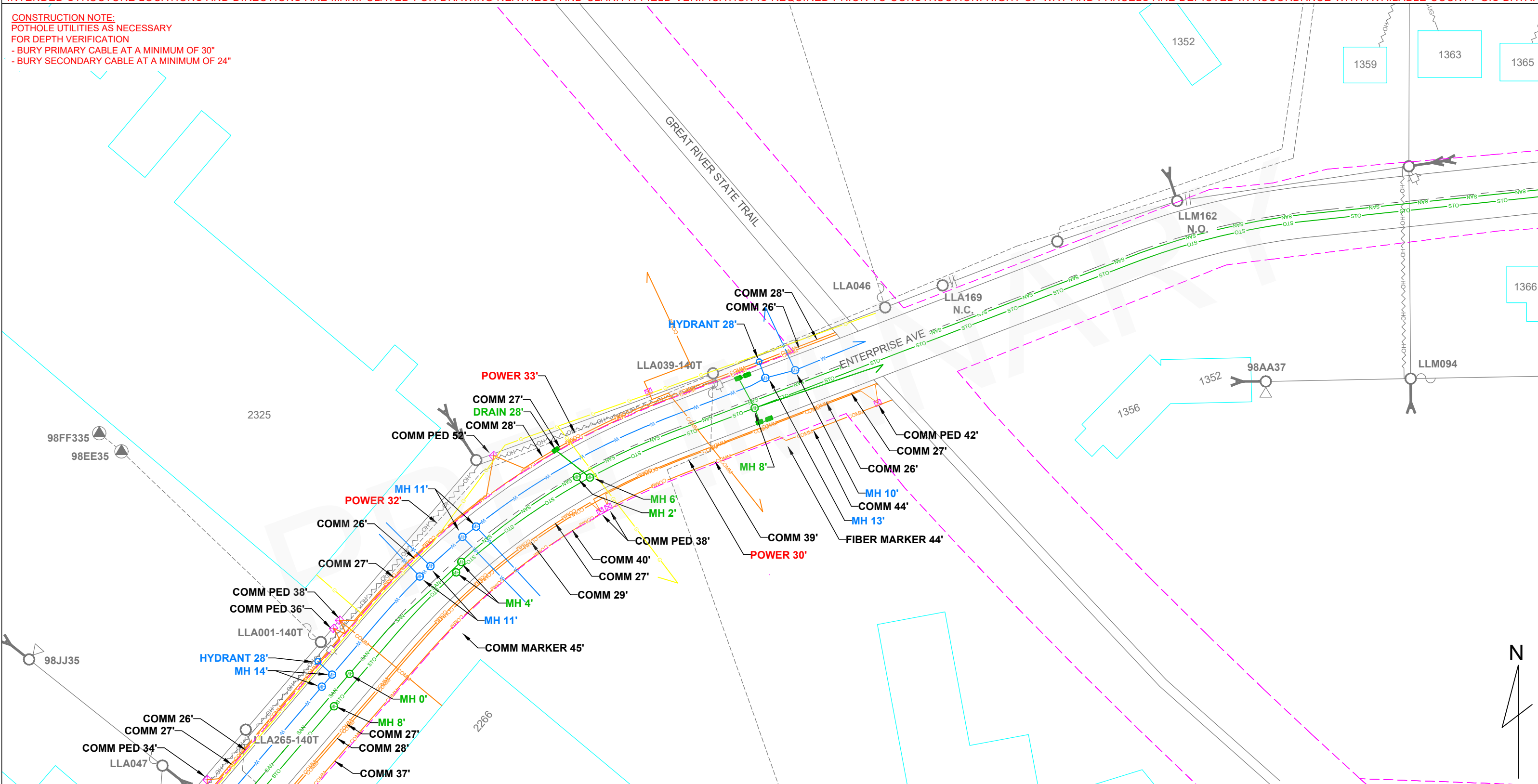


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R.L.	5/27/2021
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A.L.	
FEEDER:	VOLTAGE:
MAF076	

LOCATION:  
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 - BURY SECONDARY CABLE AT A MINIMUM OF 24"



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EXISTING SECONDARY/SERVICE		LINETYPES	
NEW SECONDARY	EXISTING ROW	GAS	WATER
NEW LINE UG	GAS	ELECTRICAL	STORM
EXISTING LINE UG	WATER	SANITARY	CABLE TV
EXISTING LINE OH	ELECTRICAL	TELEPHONE	
NEW 3PH LINE OH	STORM		
NEW 1PH LINE OH	SANITARY		
SPLICE NEW WITH EXISTING	CABLE TV		
	TELEPHONE		

TRANSFORMER 3PH PAD MOUNTED NEW	TRANSFORMATION POLE NEW
TRANSFORMER 3PH PAD MOUNTED EXISTING	TRANSFORMATION POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED EXISTING	ANCHOR NEW
TRANSFORMER 3PH POLE MOUNTED NEW	ANCHOR EXISTING
TRANSFORMER 3PH POLE MOUNTED EXISTING	FUSE NEW
TRANSFORMER 2PH POLE MOUNTED NEW	FUSE EXISTING
TRANSFORMER 2PH POLE MOUNTED EXISTING	GROUND NEW
TRANSFORMER 1PH POLE MOUNTED NEW	GROUND EXISTING
TRANSFORMER 1PH POLE MOUNTED EXISTING	

SYMBOL LEGEND	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	METER
SWITCH N.C. NEW	PHASE
SWITCH N.C. EXISTING	SIGNS
	STREET LIGHT
	COMM PEDESTAL



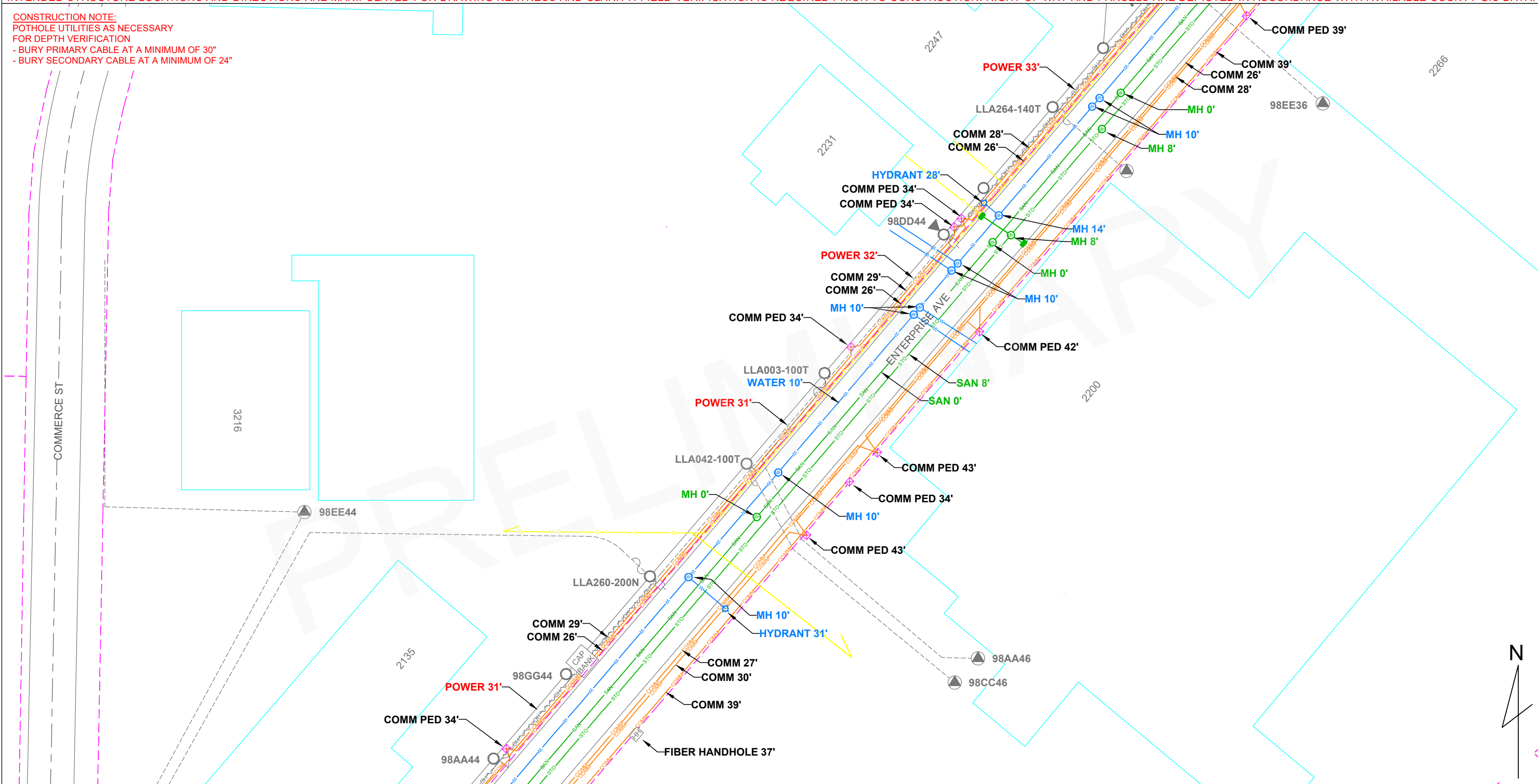
XCEL ENERGY WORK ORDER #	
FIELD BY: A.L.	DATE: 1/26/2020
DRAFTED BY: R.L.	DATE: 4/5/2021
DESIGNED BY: A.L.	DATE:
FEEDER: MAF076	VOLTAGE:

LOCATION:	
LACROSSE, WI	
1	2
3	



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LINETYPES	
EXISTING SECONDARY/SERVICE	---
NEW SECONDARY	---
NEW LINE UG	---
EXISTING LINE UG	---
EXISTING LINE OH	---
NEW 3PH LINE OH	---
NEW 1PH LINE OH	---
SPLICE NEW WITH EXISTING	---
EXISTING ROW	---
GAS	G
WATER	W
ELECTRICAL	E
STORM	STO
SANITARY	SAN
CABLE TV	CATV
TELEPHONE	TEL

TRANSFORMER 3PH PAD MOUNTED NEW	TRANSFORMATION POLE NEW
TRANSFORMER 3PH PAD MOUNTED EXISTING	TRANSFORMATION POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED EXISTING	ANCHOR NEW
TRANSFORMER 3PH POLE MOUNTED NEW	ANCHOR EXISTING
TRANSFORMER 3PH POLE MOUNTED EXISTING	FUSE NEW
TRANSFORMER 2PH POLE MOUNTED NEW	FUSE EXISTING
TRANSFORMER 2PH POLE MOUNTED EXISTING	GROUND NEW
TRANSFORMER 1PH POLE MOUNTED NEW	GROUND EXISTING
TRANSFORMER 1PH POLE MOUNTED EXISTING	

SYMBOL LEGEND	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	WARNING MARKER
SWITCH N.C. NEW	METER
SWITCH N.C. EXISTING	PHASE
	SIGNS
	STREET LIGHT
	COMM PEDESTAL



XCEL ENERGY WORK ORDER #	
FIELDER BY: A.L.	DATE: 1/26/2020
DRAFTED BY: R.L.	DATE: 4/5/2021
DESIGNED BY: A.L.	DATE:
FEEDER: MAF076	VOLTAGE:

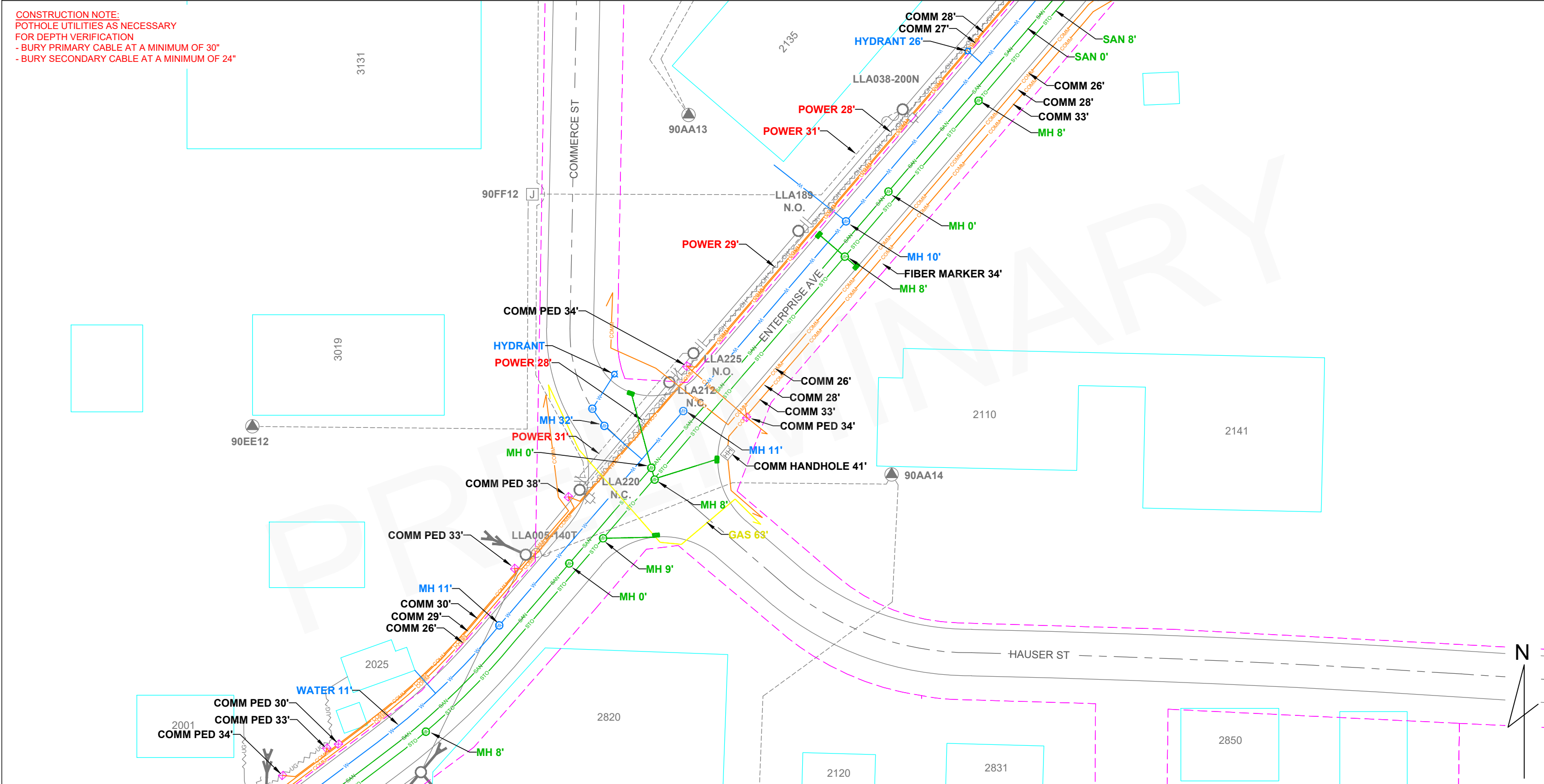
LOCATION: LACROSSE, WI





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LINETYPES	
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NEW SECONDARY	---
NEW LINE UG	---
EXISTING LINE UG	---
EXISTING LINE OH	---
NEW 3PH LINE OH	---
NEW 1PH LINE OH	---
SPLICE NEW WITH EXISTING	---
EXISTING ROW	---
GAS	G
WATER	W
ELECTRICAL	E
STORM	STO
SANITARY	SAN
CABLE TV	CATV
TELEPHONE	TEL

TRANSFORMER 3PH PAD MOUNTED NEW	TRANSFORMATION POLE NEW
TRANSFORMER 3PH PAD MOUNTED EXISTING	TRANSFORMATION POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED EXISTING	ANCHOR NEW
TRANSFORMER 3PH POLE MOUNTED NEW	ANCHOR EXISTING
TRANSFORMER 3PH POLE MOUNTED EXISTING	FUSE NEW
TRANSFORMER 2PH POLE MOUNTED NEW	FUSE EXISTING
TRANSFORMER 2PH POLE MOUNTED EXISTING	GROUND NEW
TRANSFORMER 1PH POLE MOUNTED NEW	GROUND EXISTING
TRANSFORMER 1PH POLE MOUNTED EXISTING	

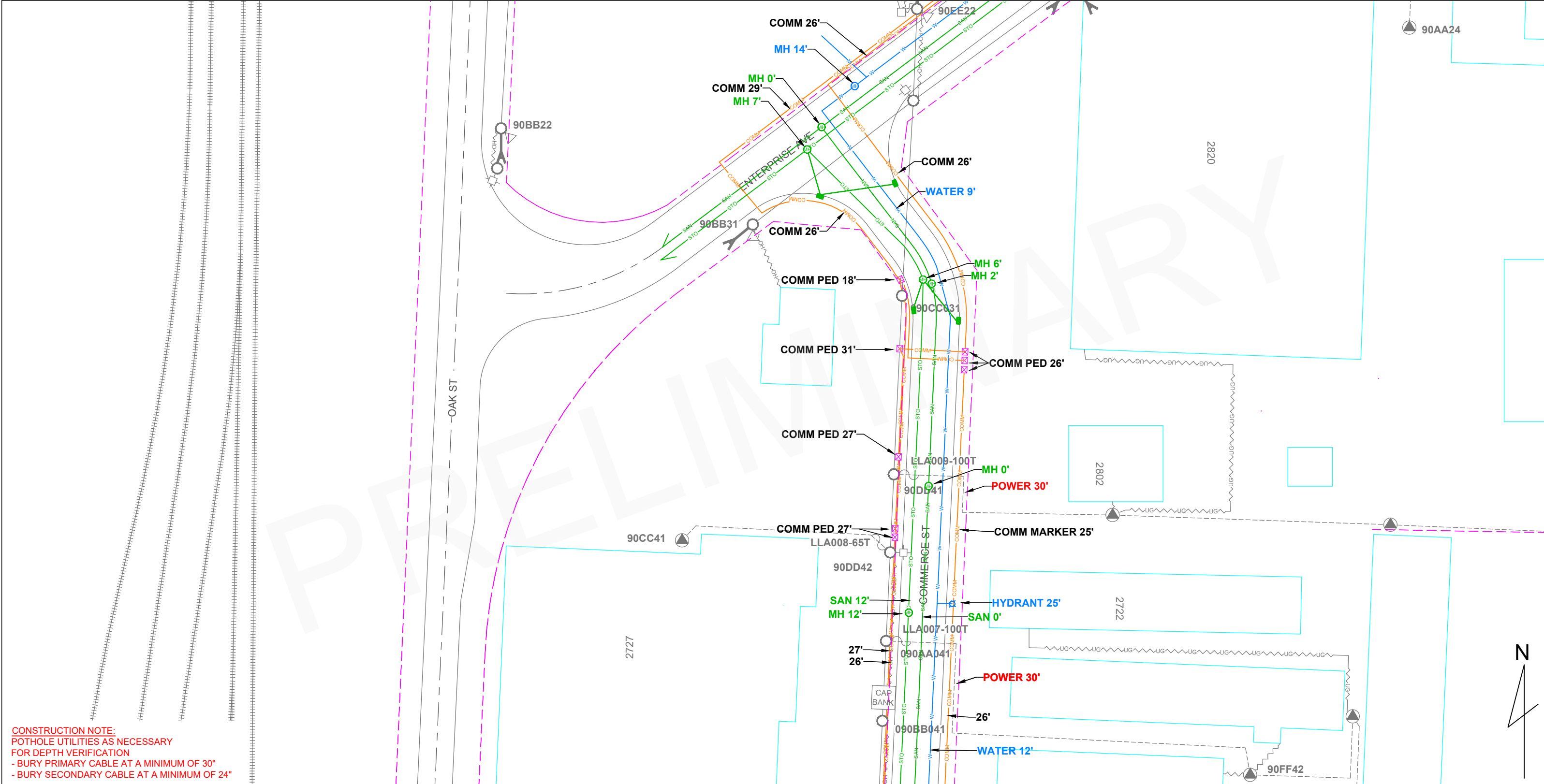
SYMBOL LEGEND	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	METER
SWITCH N.C. NEW	PHASE
SWITCH N.C. EXISTING	SIGNS
	STREET LIGHT
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XCEL ENERGY WORK ORDER #	
FIELD BY: A.L.	DATE: 1/26/2020
DRAFT BY: R.L.	DATE: 4/5/2021
DESIGNED BY: A.L.	DATE:
FEEDER: MAF076	VOLTAGE:

LOCATION: LACROSSE, WI

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EXISTING SECONDARY/SERVICE		LINETYPES	
NEW SECONDARY	EXISTING ROW	GAS	WATER
NEW LINE UG	GAS	ELECTRICAL	STORM
EXISTING LINE UG	WATER	SANITARY	CABLE TV
EXISTING LINE OH	ELECTRICAL	TELEPHONE	
NEW 3PH LINE OH	STORM		
NEW 1PH LINE OH	SANITARY		
SPLICE NEW WITH EXISTING	CABLE TV		
	TELEPHONE		

SYMBOL LEGEND	
TRANSFORMER 3PH PAD MOUNTED NEW	TRANSMISSION POLE NEW
TRANSFORMER 3PH PAD MOUNTED EXISTING	TRANSMISSION POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED EXISTING	ANCHOR NEW
TRANSFORMER 3PH POLE MOUNTED NEW	ANCHOR EXISTING
TRANSFORMER 3PH POLE MOUNTED EXISTING	FUSE NEW
TRANSFORMER 2PH POLE MOUNTED NEW	FUSE EXISTING
TRANSFORMER 2PH POLE MOUNTED EXISTING	GROUND NEW
TRANSFORMER 1PH POLE MOUNTED NEW	GROUND EXISTING
TRANSFORMER 1PH POLE MOUNTED EXISTING	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	METER
SWITCH N.C. NEW	PHASE
SWITCH N.C. EXISTING	SIGNS
	STREET LIGHT
	COMM PEDESTAL

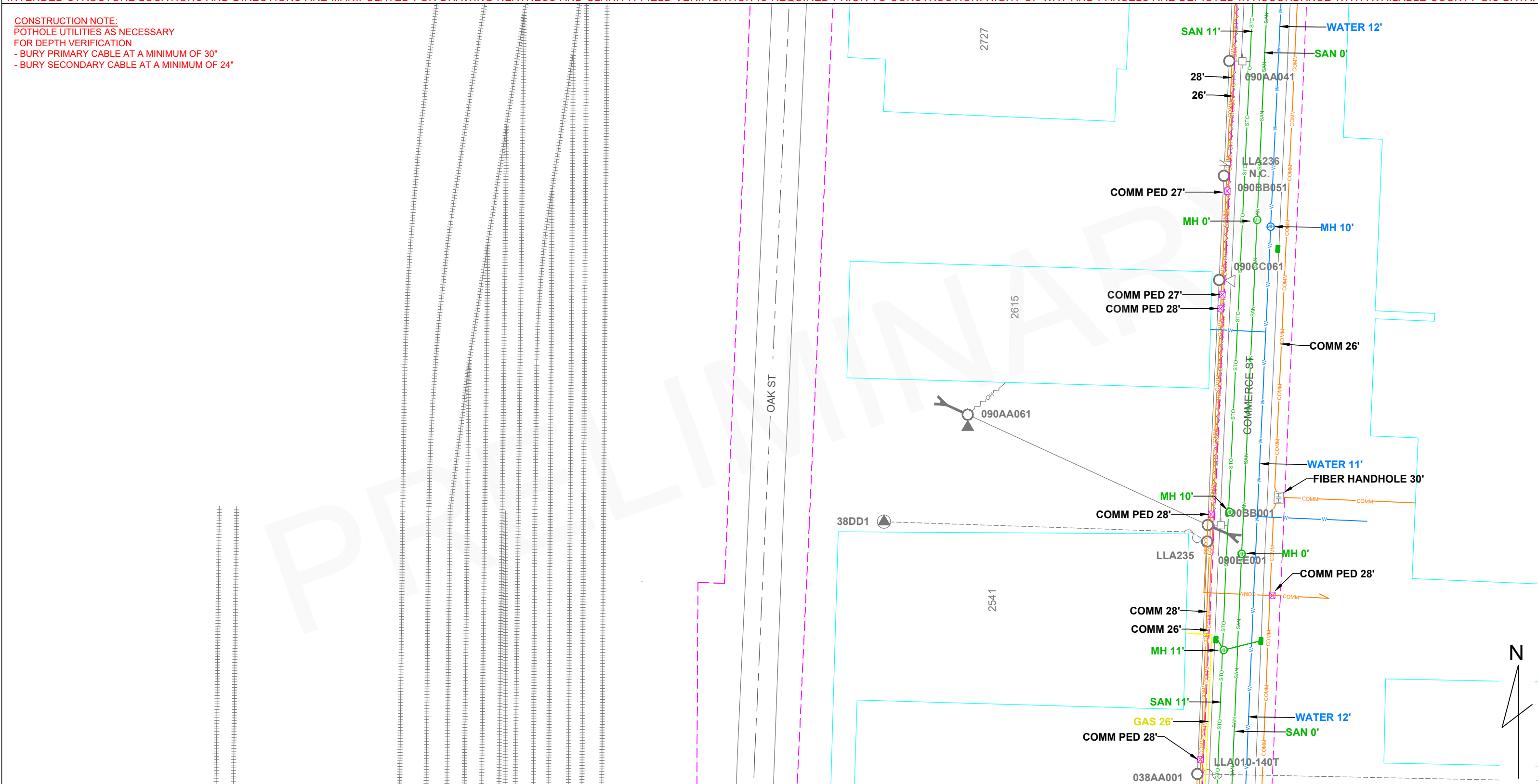


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DRAFTED BY:	DATE:
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A.L.	
FEEDER:	VOLTAGE:
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LOCATION:  
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EXISTING LINE UG	---
EXISTING LINE OH	---
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SPLICE NEW WITH EXISTING	---
EXISTING ROW	---
GAS	G
WATER	W
ELECTRICAL	E
STORM	STO
SANITARY	SAN
CABLE TV	CATV
TELEPHONE	TEL

TRANSFORMER 3PH PAD MOUNTED NEW	TRANSFORMATION POLE NEW
TRANSFORMER 3PH PAD MOUNTED EXISTING	TRANSFORMATION POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED EXISTING	ANCHOR NEW
TRANSFORMER 3PH POLE MOUNTED NEW	ANCHOR EXISTING
TRANSFORMER 3PH POLE MOUNTED EXISTING	FUSE NEW
TRANSFORMER 2PH POLE MOUNTED NEW	FUSE EXISTING
TRANSFORMER 2PH POLE MOUNTED EXISTING	GROUND NEW
TRANSFORMER 1PH POLE MOUNTED NEW	GROUND EXISTING
TRANSFORMER 1PH POLE MOUNTED EXISTING	

SYMBOL LEGEND	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	METER
SWITCH N.C. NEW	PHASE
SWITCH N.C. EXISTING	SIGNS
	STREET LIGHT
	COMM PEDESTAL

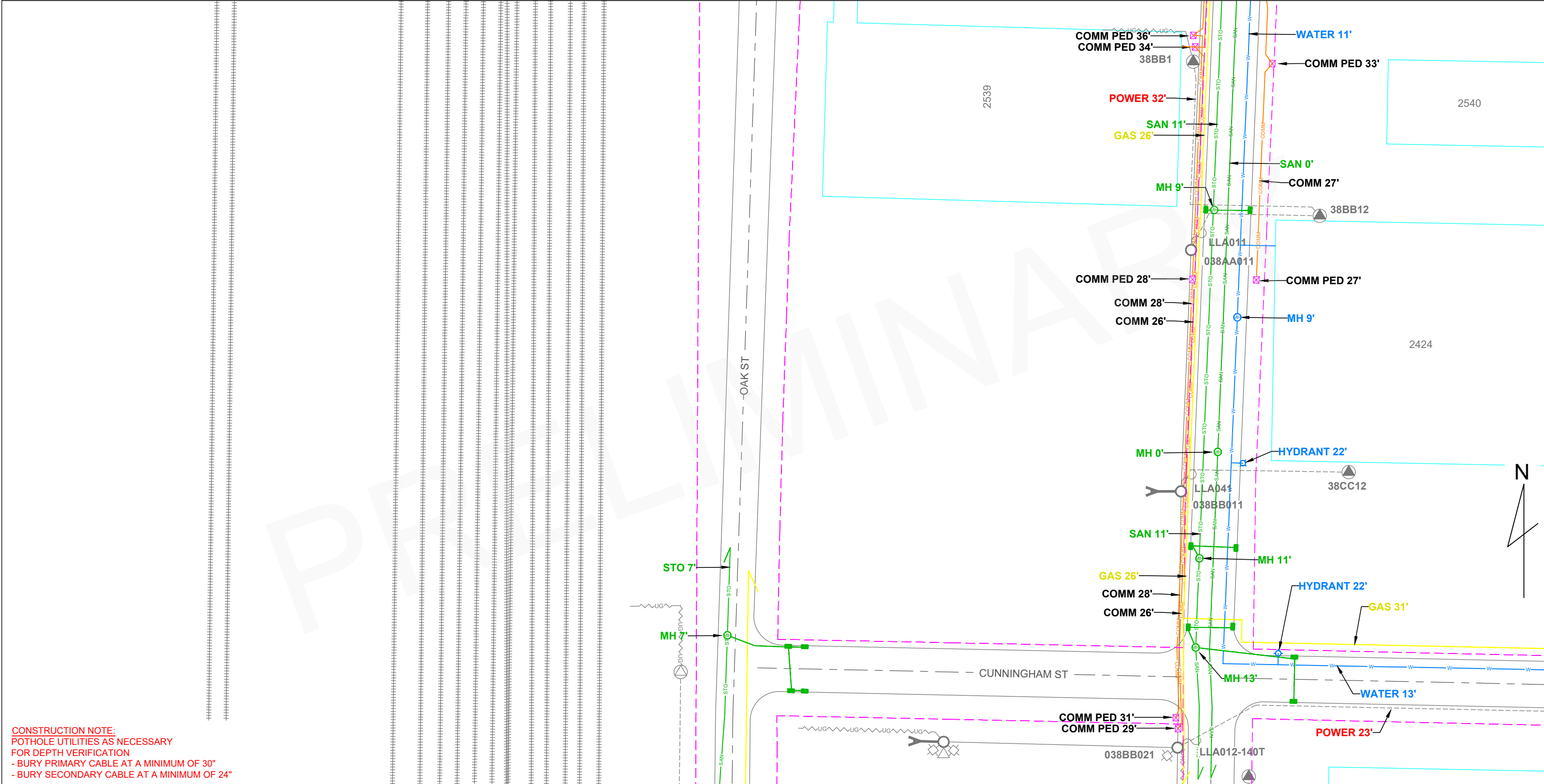


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A.L.	
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MAF076	

LOCATION:  
LACROSSE, WI



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NEW SECONDARY		EXISTING ROW	
NEW LINE UG		GAS	
EXISTING LINE UG		WATER	
EXISTING LINE OH		ELECTRICAL	
NEW 3PH LINE OH		STORM	
NEW 1PH LINE OH		SANITARY	
SPLICE NEW WITH EXISTING		CABLE TV	
		TELEPHONE	

	TRANSFORMER 3PH PAD MOUNTED NEW		TRANSMISSION POLE NEW
	TRANSFORMER 3PH PAD MOUNTED EXISTING		TRANSMISSION POLE EXISTING
	TRANSFORMER 1PH PAD MOUNTED NEW		POLE EXISTING
	TRANSFORMER 1PH PAD MOUNTED EXISTING		ANCHOR NEW
	TRANSFORMER 3PH POLE MOUNTED NEW		ANCHOR EXISTING
	TRANSFORMER 3PH POLE MOUNTED EXISTING		FUSE NEW
	TRANSFORMER 2PH POLE MOUNTED NEW		FUSE EXISTING
	TRANSFORMER 2PH POLE MOUNTED EXISTING		GROUND NEW
	TRANSFORMER 1PH POLE MOUNTED NEW		GROUND EXISTING
	TRANSFORMER 1PH POLE MOUNTED EXISTING		

SYMBOL LEGEND	
	NEW POLE
	POWER PED NEW
	POWER PED EXISTING
	WARNING MARKER
	METER
	PHASE
	SIGNS
	STREET LIGHT
	COMM PEDESTAL
	CAPACITOR NEW
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	SWITCH N.O. NEW
	SWITCH N.O. EXISTING
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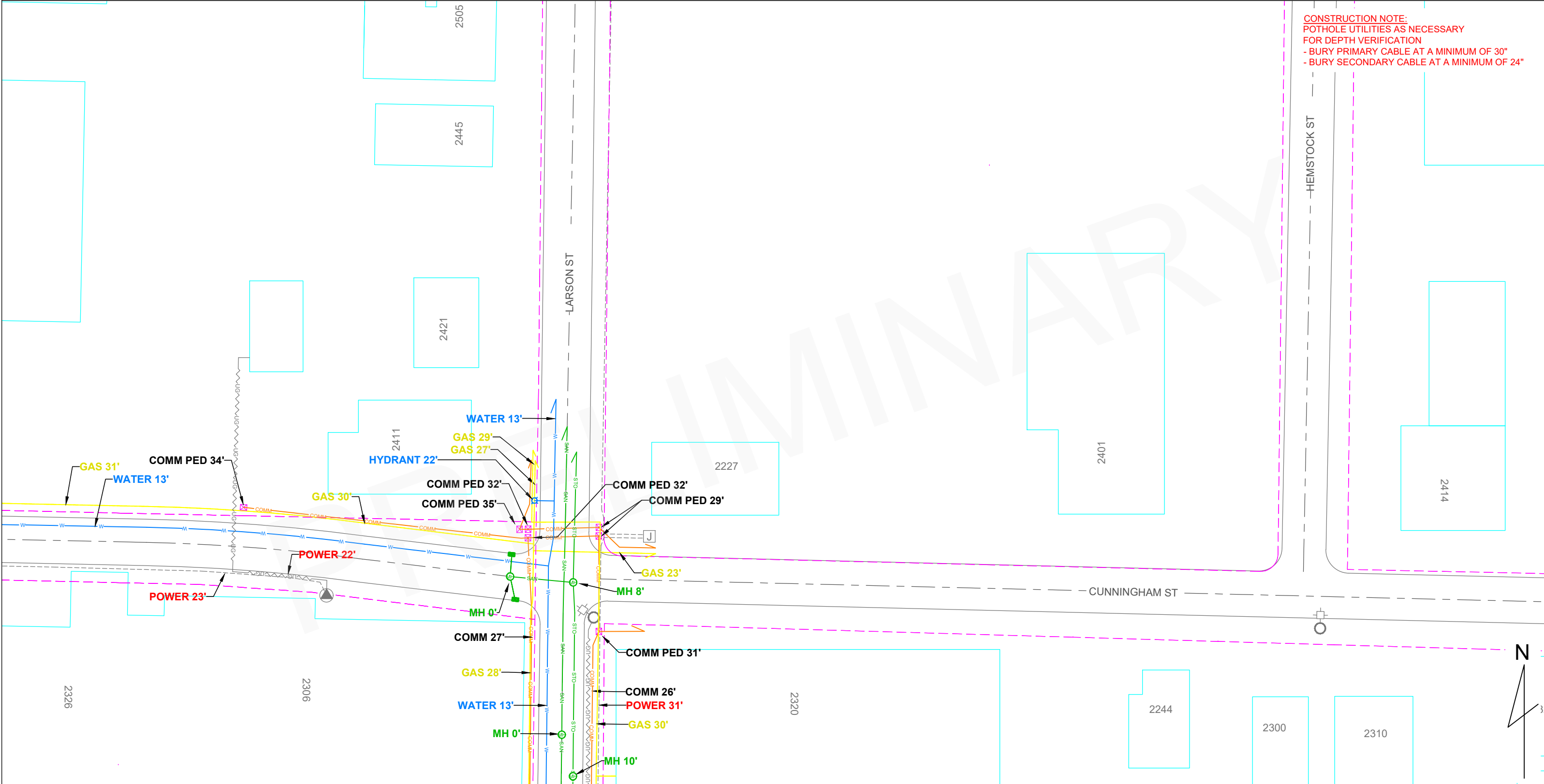


XCEL ENERGY WORK ORDER #		LOCATION:
FIELD BY:	DATE:	LACROSSE, WI
A.L.	1/26/2020	
DRAFTED BY:	DATE:	
R.L.	4/5/2021	
DESIGNED BY:	DATE:	
A.L.		
FEEDER:	VOLTAGE:	
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LINETYPES	
EXISTING SECONDARY/SERVICE	EXISTING ROW
NEW SECONDARY	GAS
NEW LINE UG	WATER
EXISTING LINE UG	ELECTRICAL
EXISTING LINE OH	STORM
NEW 3PH LINE OH	SANITARY
NEW 1PH LINE OH	CABLE TV
SPLICE NEW WITH EXISTING	TELEPHONE

TRANSFORMER 3PH PAD MOUNTED NEW	TRANSFORMATION POLE NEW
TRANSFORMER 3PH PAD MOUNTED EXISTING	TRANSFORMATION POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED EXISTING	ANCHOR NEW
TRANSFORMER 3PH POLE MOUNTED NEW	ANCHOR EXISTING
TRANSFORMER 3PH POLE MOUNTED EXISTING	FUSE NEW
TRANSFORMER 2PH POLE MOUNTED NEW	FUSE EXISTING
TRANSFORMER 2PH POLE MOUNTED EXISTING	GROUND NEW
TRANSFORMER 1PH POLE MOUNTED NEW	GROUND EXISTING
TRANSFORMER 1PH POLE MOUNTED EXISTING	

SYMBOL LEGEND	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	METER
SWITCH N.C. NEW	PHASE
SWITCH N.C. EXISTING	SIGNS
	STREET LIGHT
	COMM PEDESTAL

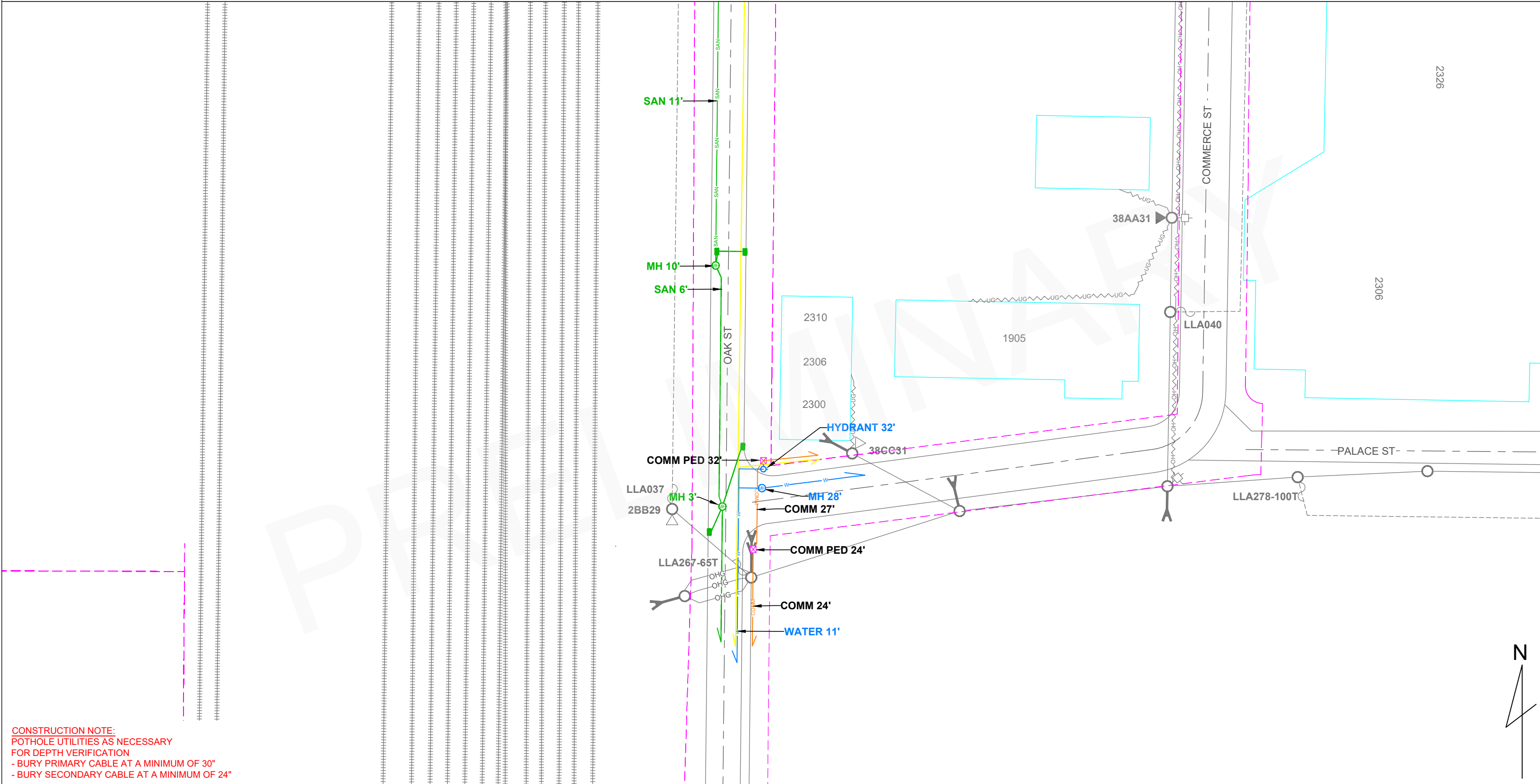


XCEL ENERGY WORK ORDER #	
FIELDER BY: A.L.	DATE: 1/26/2020
DRAFTED BY: R.L.	DATE: 4/5/2021
DESIGNED BY: A.L.	DATE:
FEEDER: MAF076	VOLTAGE:

LOCATION: LACROSSE, WI



UTILITIES SHOWN ON THIS PLAN ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES FROM FIELD VERIFICATION AND CONTACT WITH UTILITY OWNERS. CONTRACTOR IS TO FOLLOW NESC CODE AND XCEL ENERGY CONSTRUCTION STANDARDS AT ALL TIMES. GUYING, ANCHORING, POLE LOCATION AND CONDUCTOR ARE SHOWN TO REFLECT GENERAL REAL WORLD LOCATIONS AND DIRECTION, AND SHOULD NOT BE INTERPRETED AS EXACT. SOME INTENDED STRUCTURE LOCATIONS AND DIRECTIONS ARE MANIPULATED FOR DRAWING NEATNESS AND CLARITY. FIELD VERIFICATION IS REQUIRED PRIOR TO CONSTRUCTION. RIGHT OF WAY AND PARCELS ARE DEPICTED IN ACCORDANCE WITH AVAILABLE COUNTY GIS DATA.



**CONSTRUCTION NOTE:**  
 POT HOLE UTILITIES AS NECESSARY FOR DEPTH VERIFICATION  
 - BURY PRIMARY CABLE AT A MINIMUM OF 30"  
 - BURY SECONDARY CABLE AT A MINIMUM OF 24"

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LINETYPES	
EXISTING SECONDARY/SERVICE	---
NEW SECONDARY	---
NEW LINE UG	---
EXISTING LINE UG	---
EXISTING LINE OH	---
NEW 3PH LINE OH	---
NEW 1PH LINE OH	---
SPLICE NEW WITH EXISTING	---
EXISTING ROW	---
GAS	G
WATER	W
ELECTRICAL	E
STORM	STC
SANITARY	SAN
CABLE TV	CATV
TELEPHONE	TEL

TRANSFORMER 3PH PAD MOUNTED NEW	TRANSFORMER 3PH PAD MOUNTED EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	TRANSFORMER 1PH PAD MOUNTED EXISTING
TRANSFORMER 3PH POLE MOUNTED NEW	TRANSFORMER 3PH POLE MOUNTED EXISTING
TRANSFORMER 2PH POLE MOUNTED NEW	TRANSFORMER 2PH POLE MOUNTED EXISTING
TRANSFORMER 1PH POLE MOUNTED NEW	TRANSFORMER 1PH POLE MOUNTED EXISTING
TRANSMISSION POLE NEW	TRANSMISSION POLE EXISTING
POLE EXISTING	ANCHOR NEW
ANCHOR EXISTING	FUSE NEW
FUSE EXISTING	GROUND NEW
GROUND EXISTING	

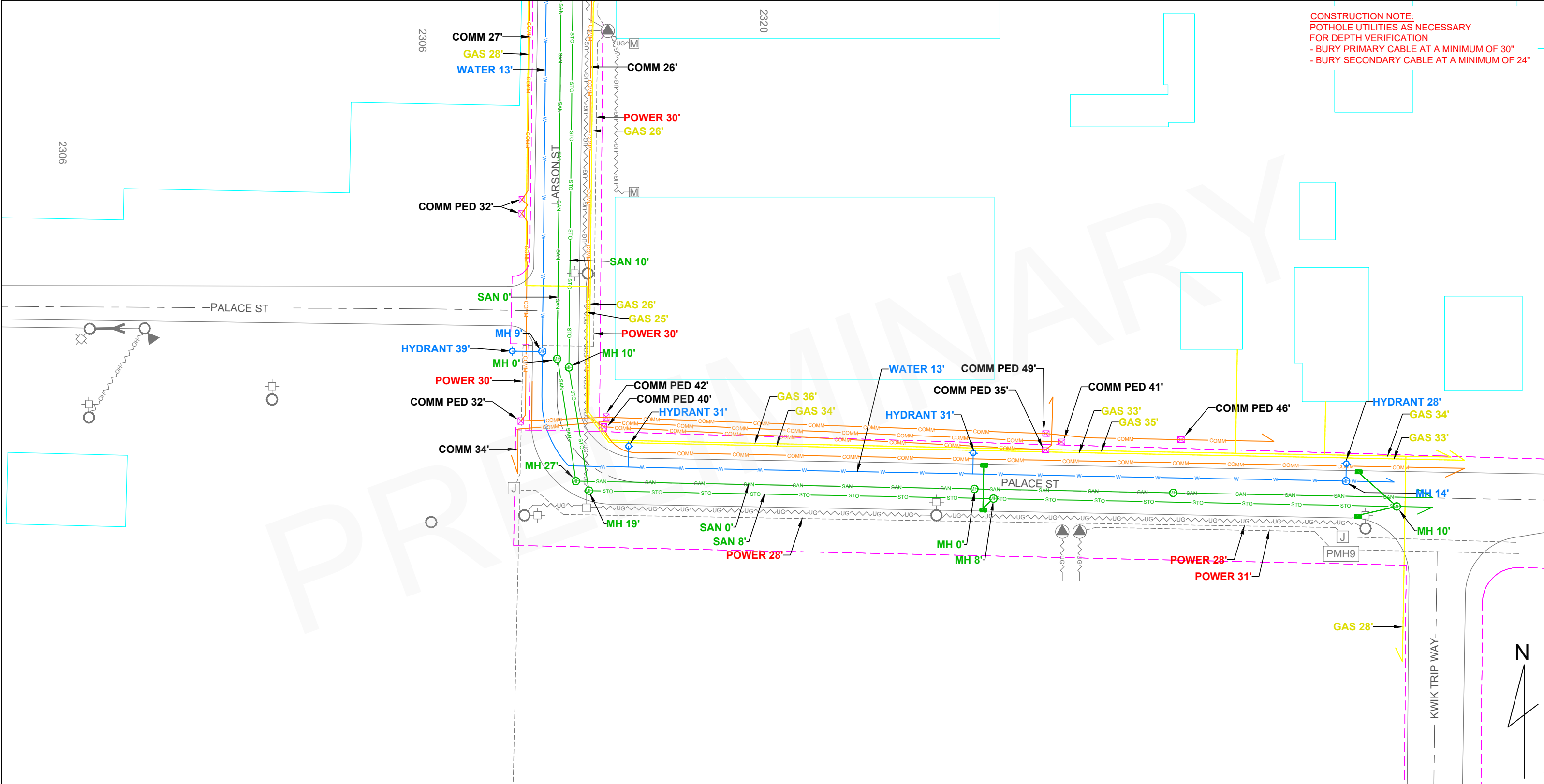
SYMBOL LEGEND	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	METER
SWITCH N.C. NEW	PHASE
SWITCH N.C. EXISTING	SIGNS
	STREET LIGHT
	COMM PEDESTAL



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LINETYPES	
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NEW SECONDARY	---
NEW LINE UG	---
EXISTING LINE UG	---
EXISTING LINE OH	---
NEW 3PH LINE OH	---
NEW 1PH LINE OH	---
SPLICE NEW WITH EXISTING	---
EXISTING ROW	---
GAS	G
WATER	W
ELECTRICAL	E
STORM	STO
SANITARY	SAN
CABLE TV	CATV
TELEPHONE	TEL

TRANSFORMER 3PH PAD MOUNTED NEW	TRANSFORMATION POLE NEW
TRANSFORMER 3PH PAD MOUNTED EXISTING	TRANSFORMATION POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED NEW	POLE EXISTING
TRANSFORMER 1PH PAD MOUNTED EXISTING	ANCHOR NEW
TRANSFORMER 3PH POLE MOUNTED NEW	ANCHOR EXISTING
TRANSFORMER 3PH POLE MOUNTED EXISTING	FUSE NEW
TRANSFORMER 2PH POLE MOUNTED NEW	FUSE EXISTING
TRANSFORMER 2PH POLE MOUNTED EXISTING	GROUND NEW
TRANSFORMER 1PH POLE MOUNTED NEW	GROUND EXISTING
TRANSFORMER 1PH POLE MOUNTED EXISTING	

SYMBOL LEGEND	
CAPACITOR NEW	NEW POLE
CAPACITOR EXISTING	POWER PED NEW
SWITCH N.O. NEW	POWER PED EXISTING
SWITCH N.O. EXISTING	WARNING MARKER
SWITCH N.C. NEW	METER
SWITCH N.C. EXISTING	PHASE
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