

MIDWEST FIBER NETWORKS

2207049

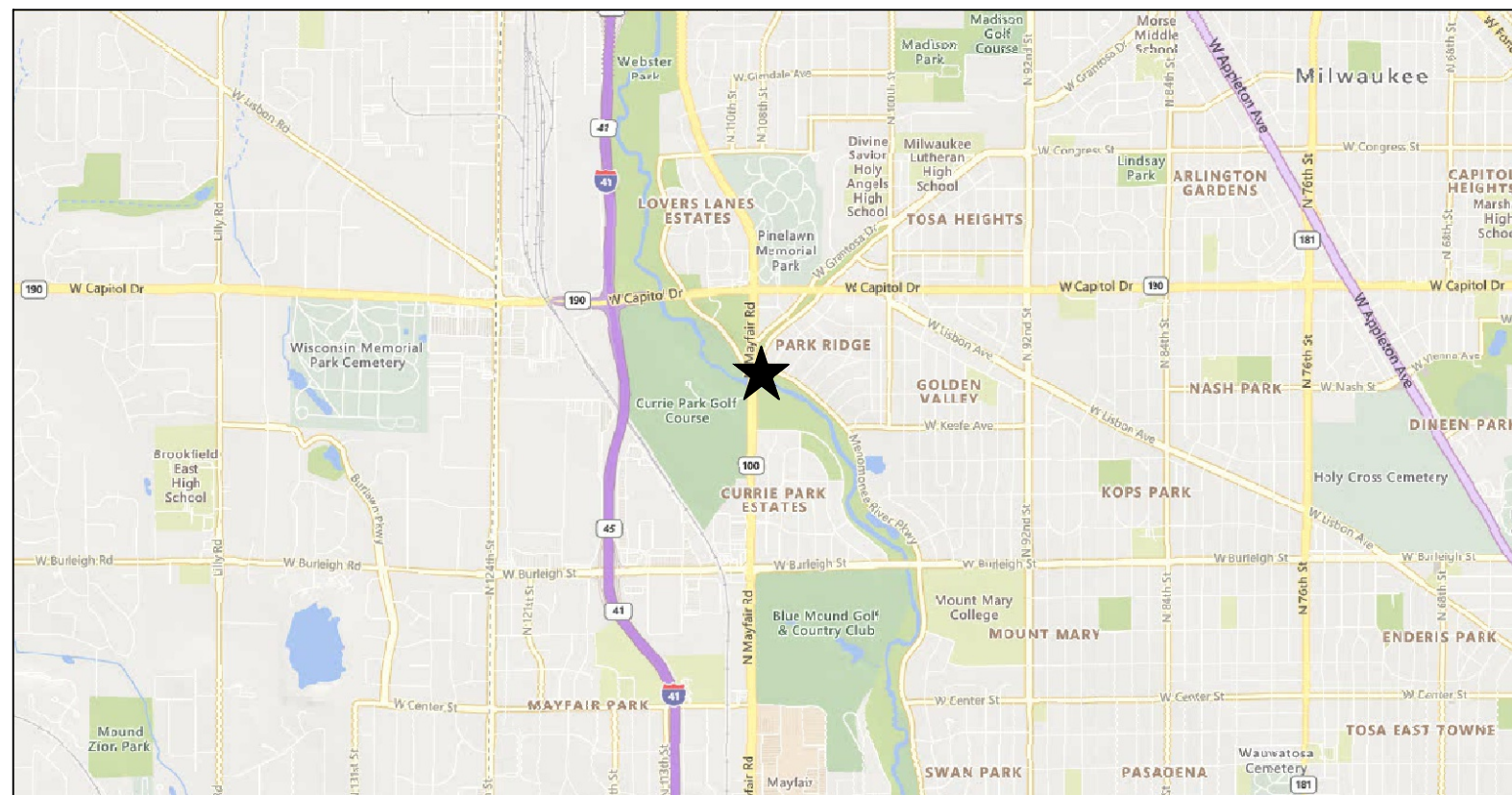
RELO - HWY 100 BRIDGE & ROAD WORK

HWY 100 & KEEFE AVE

C/ WAUWATOSA

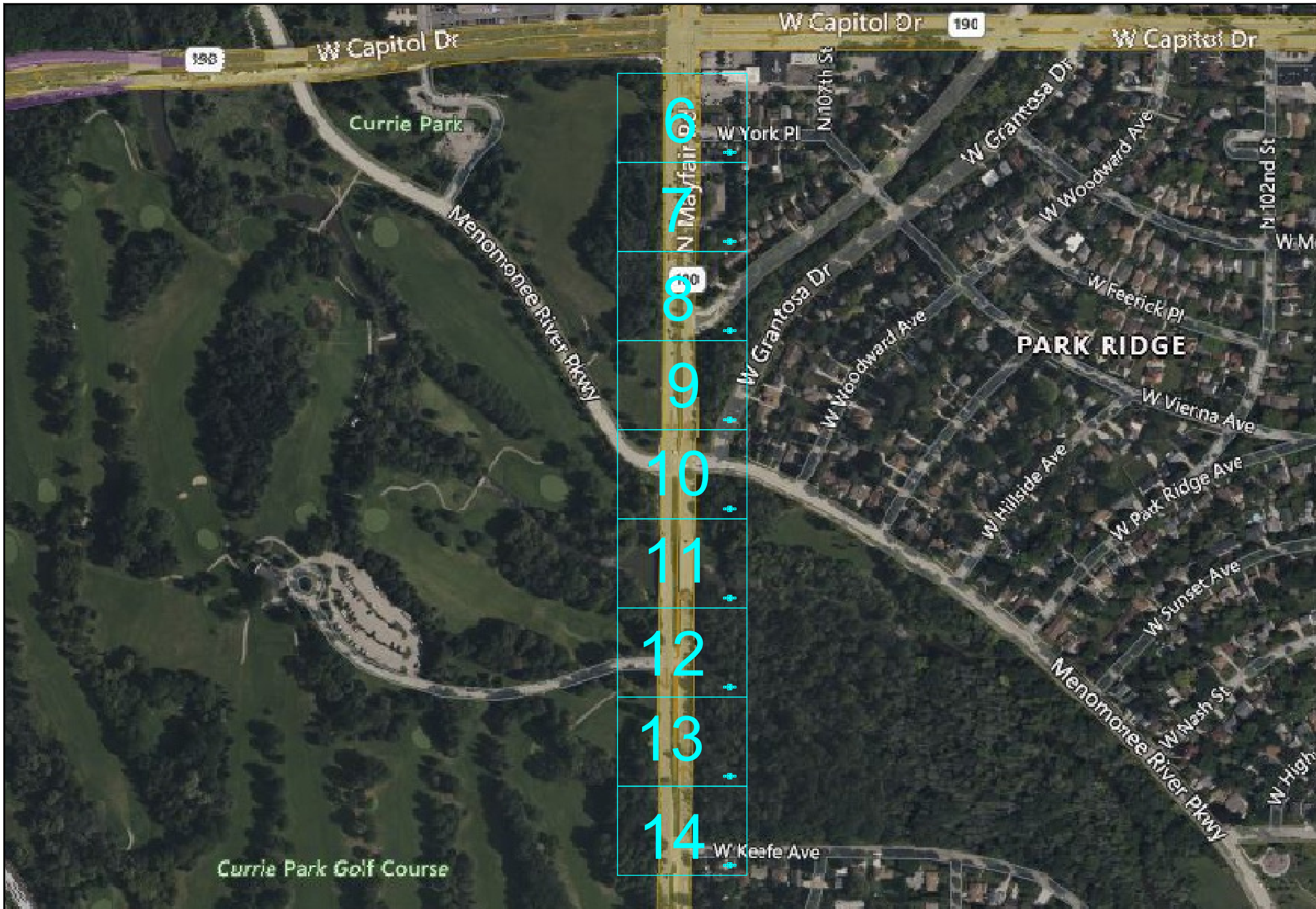
MILWAUKEE COUNTY, WI

APRIL 29, 2026



LOCATION MAP
NOT TO SCALE

PAGE NAME	PAGE #
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MIDWEST FIBER NETWORKS

414.672.5612
 6070 N FLINT RD
 GLENDALE, WI 53209

OSP ENGINEER: CORY SCHMUKI
 EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION

2207049
 RELO - HWY 100 BRIDGE & ROAD WORK
 WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA	
COUNTY: MILWAUKEE	STATE: WI
TOWN RANGE SEC: T7N R21E SEC8	
DATE: 4/29/26	
DRAWN BY: TFG-MWFN	
DRAWING SCALE: NTS	

REVISIONS			
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Bill of Materials

Fiber

TOTAL 432CT FIBER - 2574'
 TOTAL 12CT FIBER - 878'
 REMOVE EXISTING 432 FROM WISDOT FTMS DUCT - 2442'

UG

BORE (2) 1.25" HDPE DUCTS - 639'
 30x48x36 HANDHOLE - 2
 #8 SOLID TRACER WIRE - 503'
 LOCATE BRACKET - 2
 PULL THROUGH EXISTING DUCT - 2424'

Muni footages

CITY OF WAUWATOSA UNDERGROUND FOOTAGE - 2927'

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REV. NO.	DESCRIPTION

PERMITS FOR THE JOB

PERMIT AUTHORITY	PERMIT #	START DATE	EXPIRATION DATE
CITY OF WAUWATOSA	SOP2026-0046	4/16/2026	6/16/2026
WISDOT	40U-328-26	4/30/2026	4/30/2027

LEGEND

LINETYPES

ATC	
ATT FIBER	
BUREAU OF ELECTRIC SERVICES (BES)	
CATV	
CENTERLINE	
CHILLED WATER	
COMBINED SEWER	
COMM LINE	
CROWN CASTLE	
CUC	
CULVERT	
ELECTRIC	
EVERSTREAM	
FENCE	
FIBER OPTIC (GENERIC OR UNKNOWN OWNER)	
FRONTIER	
GAS	
GRAVEL	
GUARDRAIL	
IRRIGATION	
LUMEN	
MCI	
MND	
MUNICIPAL FIBER	
MWFN AERIAL FIBER / STRAND - EXISTING	
MWFN UNDERGROUND FIBER / CONDUIT - EXISTING	
PARCEL	
PIPELINE - TRANSMISSION	
RAILROAD	
RETAINING WALL	
RIGHT OF WAY	
ROGERS	
SANITARY FORCE MAIN	
SANITARY SEWER	
SCHOOL FIBER	
SPRINT	
STEAM	
STORM SEWER	
TDS	
TELEPHONE	
US SIGNAL	
VEGETATION	
VERIZON	
WATER LINE	
WATERWAY / WATER FEATURE	
WETLAND	
WIN	
WINDSTREAM	
MWFN UNDERGROUND FIBER / CONDUIT - PROPOSED	
MWFN AERIAL FIBER / STRAND - PROPOSED	

SYMBOLS

ANCHOR	
CATV PEDESTAL	
ELECTRIC PEDESTAL / TRANSFORMER	
EXISTING HANDHOLE	
PROPOSED HANDHOLE	
HYDRANT	
INLET - SQUARE or ROUND	
LIGHT / SIGNAL POLE	
MAILBOX	
EXISTING MANHOLE - ROUND or SQUARE	
PROPOSED MANHOLE	
MARKER POST / LOCATE POST	
ELECTRIC METER	
GAS METER	
UTILITY POLE	
RISER	
SIGN	
SIGNAL CABINET	
SPLICE	
TELEPHONE PEDESTAL / CABINET	
TREE - DECIDUOUS	
TREE - EVERGREEN	
WATER VALVE	
GAS VALVE	
FIBER PEDESTAL / CABINET	
SMALL ROUND HANDHOLE / FLOWER POT	
TAP - w/ NUMBER OF PORTS	

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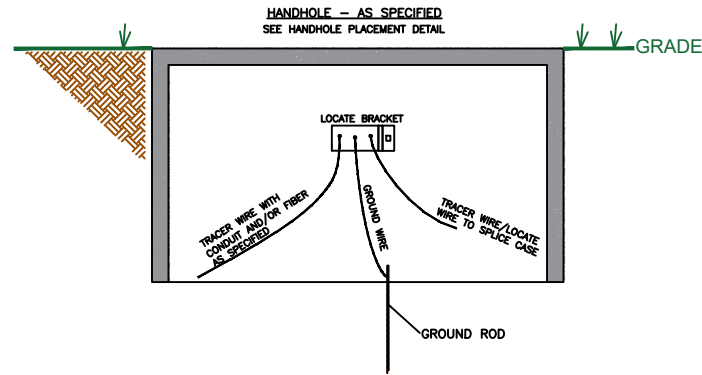
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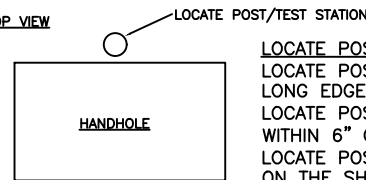
LOCATE BRACKET DETAIL

LOCATE BRACKET TO BE PLACED ALONG LONG EDGE OF HANDHOLE, AT MIDDLE OF HANDHOLE. LOCATE BRACKET PLACEMENT MUST BE WITHIN 6" OF THE TOP OF THE HANDHOLE.
LOCATE BRACKETS ARE NOT TO BE PLACED ON THE SHORT ENDS OF THE HANDHOLE.



FLUSH MOUNT TEST STATION - FINK & LOCATE POST PLACEMENT DETAIL

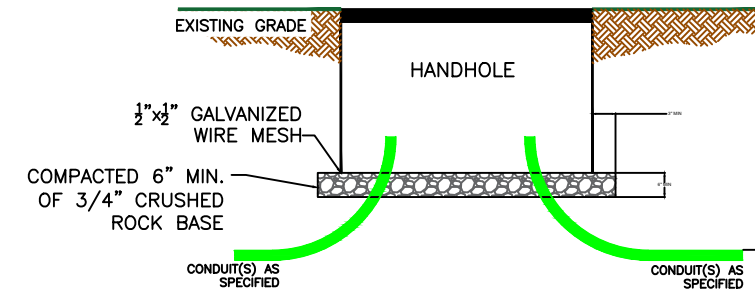
TOP VIEW



LOCATE POST & TEST STATION PLACEMENT
LOCATE POST/TEST STATION TO BE PLACED ALONG LONG EDGE OF HANDHOLE, AT MIDDLE OF HANDHOLE. LOCATE POST/TEST STATION PLACEMENT MUST BE WITHIN 6" OF THE SIDE OF THE HANDHOLE. LOCATE POSTS/TEST STATIONS ARE NOT TO BE PLACED ON THE SHORT ENDS OF THE HANDHOLE. WHEN INSTALLING LOCATE POST, POSITION POST AS SUCH THAT LOCATE WIRES CONNECTIONS (BOLTS) ARE PERPENDICULAR TO LONG EDGE OF HANDHOLE.

HANDHOLE INSTALLATION

NOT TO SCALE - HANDHOLE SIZE SPECIFIED ON PRINT



EXCAVATE THE EARTH A MINIMUM OF 6" DEEPER THAN THE DEPTH OF THE FULL HANDHOLE. INSTALL MINIMUM OF 6" OF 3/4" CRUSHED ROCK BASE MATERIAL THAT EXTENDS A MIN. OF 3" BEYOND THE OUTSIDE OF THE HANDHOLE BASE AND COMPACT. FIT AND PLACE WIRE MESH EXTENDING MIN. 3" OUTSIDE OF HANDHOLE BASE. CONDUIT THAT SWEEPS INTO THE HANDHOLE MUST ENTER THE HANDHOLE FLUSH & LEVEL WITH BOTTOM OF HANDHOLE TO AVOID FIBER MICRO BENDING. WHEN ENTERING A SHALLOW HANDHOLE, THE CHANGE IN ELEVATION OF THE CONDUIT RUN OUTSIDE OF THE HANDHOLE SHOULD BE KEPT AS SHORT AS POSSIBLE IN ORDER TO MAINTAIN REQUIRED DEPTH OF COVER. CONDUITS ENDS ENTERING HANDHOLE MUST HAVE MIN. 4" & MAX. 6" EXPOSED AND ACCESSIBLE FOR PLACING PLUGS, COUPLING, & BLOWING. INSTALL 6' GROUND ROD WITH 8" MAX. REMAINING ABOVE BOTTOM GRAVEL OF HANDHOLE. INSTALL GROUND ROD WITHIN 4" OF HANDHOLE CORNER. PLACE COVER ON HANDHOLE, BACKFILL AND COMPACT. RESTORE UPON COMPLETION.

TRACER/LOCATE WIRE PLACEMENT REQUIREMENTS - UNLESS OTHERWISE SPECIFIED ON THE PRINTS

FOR ALL HANDHOLES INSTALLED WITH A LOCATE STATION (LOCATE POST, LOCATE BRACKET, FLUSH MOUNT TEST STATION(FINK)), THE FOLLOWING IS REQUIRED:

- (1) TRACER/LOCATE WIRE PER EACH FIBER AND/OR CONDUIT PATH LEAVING HANDHOLE. MULTIPLE FIBERS IN ONE SINGLE CONDUIT ONLY REQUIRE ONE MEANS OF LOCATING. MULTIPLE CONDUITS INSTALLED TOGETHER ALONG THE SAME PATH ONLY REQUIRE ONE MEANS OF LOCATING.
- (1) ONE GROUND WIRE AND 6' COPPER GROUND ROD

TRACER/LOCATE WIRE SPECIFICATIONS REQUIREMENTS - UNLESS OTHERWISE SPECIFIED ON THE PRINTS

GROUND WIRE

- (1) #6 AWG INSULATED WIRE, LABELED WITH BLACK ELECTRIC TAPE ON EACH END. USE APPROPRIATE RING TERMINAL CONNECTOR FOR #6 AWG WIRE AND CONNECT TO CENTER TERMINAL OF LOCATE STATION. STRIP AND CONNECT OPPOSITE END IN HANDHOLE TO 6' COPPER GROUND ROD.

ARMORED FIBER LOCATE WIRE (SPLICE LOCATIONS)

#6 AWG INSULATED WIRE FOR EACH ARMORED FIBER PRESENT OR TO BE INSTALLED IN THE SPLICE CASE. USE APPROPRIATE RING TERMINAL CONNECTOR FOR #6 AWG WIRE AND CONNECT WIRE IN/ON LOCATE STATION TO OUTER TERMINALS IN/ON LOCATE STATION. INSIDE HANDHOLE, USE APPROPRIATE RING TERMINAL CONNECTOR FOR #6 AWG WIRE AND CONNECT TO SPLICE CASE TERMINAL.

-IN THE EVENT THE SPLICE CASE IS NOT PRESENT AT THE TIME OF LOCATE WIRE & LOCATE STATION INSTALLATION, LEAVE (1) 10' COIL OF #6 AWG WIRE (PER EACH ARMORED FIBER), CONNECTED TO THE LOCATE STATION WITH REMAINDER IN HANDHOLE FOR CONNECTION TO THE SPLICE ONCE INSTALLED.

#8-12 AWG SOLID CORE TRACER WIRE (AS SPECIFIED ON PRINTS)

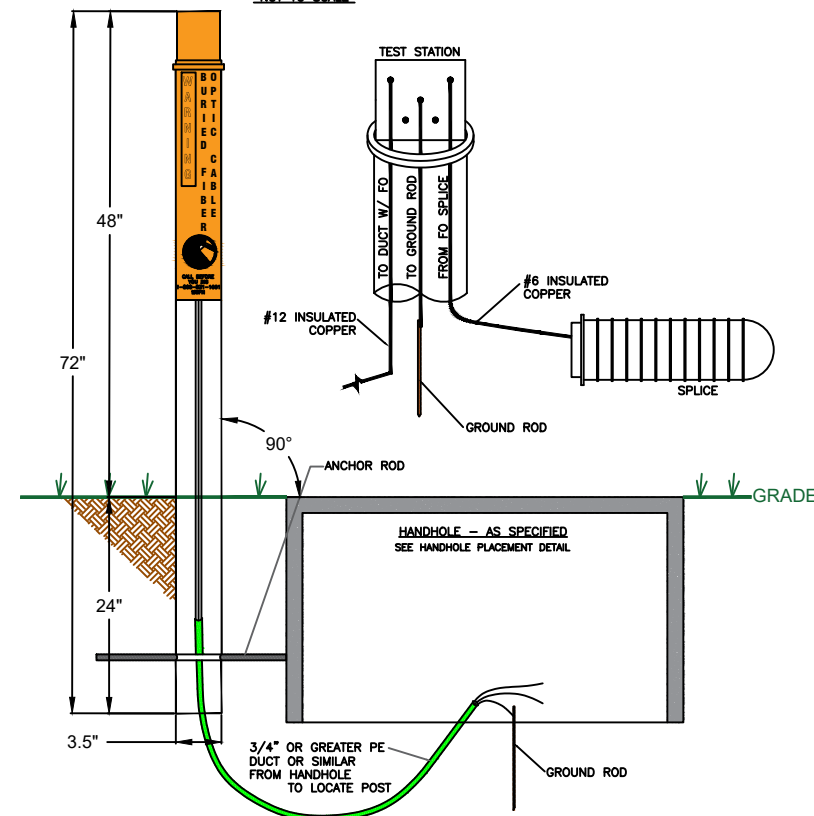
FOR EACH CONDUIT PATH THAT IS PRESENT IN A HANDHOLE AND WAS INSTALLED WITH #8-12 AWG SOLID CORE TRACER WIRE OUTSIDE OF THE CONDUITS, A MINIMUM OF 5' OF #8-12 AWG SOLID CORE TRACER IS TO BE LEFT AT THE HANDHOLE LOCATION. #8 AWG SOLID CORE TRACER WIRES CAN BE CONNECTED WITH WATERPROOF CONNECTORS TO #6-#12 AWG STRANDED WIRE FOR INSTALLATION INTO LOCATE STATION. UPON INSTALLATION OF THE LOCATE STATION, ALL WIRES ARE TO BE CONNECTED TO TERMINALS IN/ON THE LOCATE STATION WITH APPROPRIATE RING TERMINAL CONNECTORS.

#12 AWG STRANDED TRACER WIRE (AS SPECIFIED ON PRINTS)

FOR EACH FIBER OR EMPTY CONDUIT PATH THAT IS PRESENT IN A HANDHOLE AND WAS INSTALLED WITH #12 AWG STRANDED TRACER WIRE INSIDE OF THE CONDUIT, A MINIMUM OF 10' COIL OF #12 AWG STRANDED TRACER WIRE IS TO BE LEFT AT THE HANDHOLE LOCATION. UPON INSTALLATION OF THE LOCATE STATION, ALL #12 AWG STRANDED TRACER WIRES ARE TO BE CONNECTED TO TERMINALS IN/ON THE LOCATE STATION WITH APPROPRIATE RING TERMINAL CONNECTORS.

LOCATE POST DETAIL

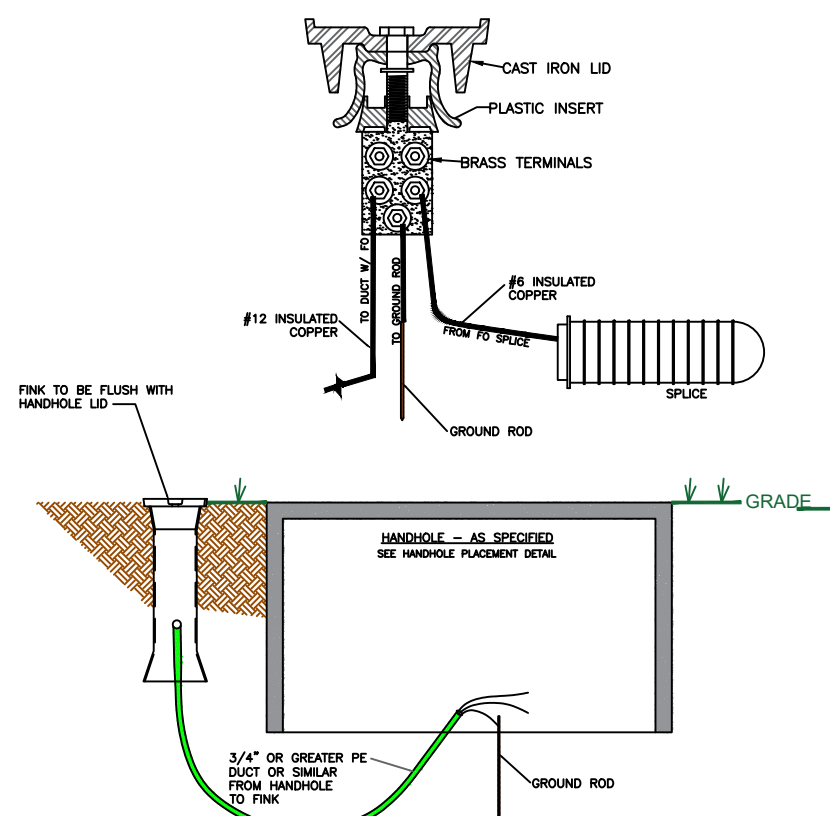
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FLUSH MOUNT TEST STATION - FINK- DETAIL

FLUSH-MOUNT TEST BOX LID

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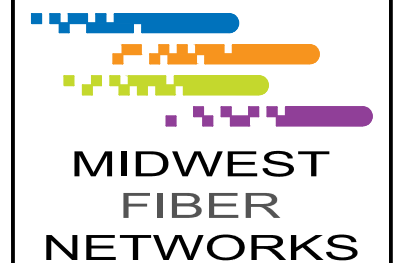
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Erosion Control Plan

GENERAL NOTES

1. All of the conditions under this document will be met during construction of the project.
2. No stockpiling spoils on roadways or on shoulder.
3. If any spills (like gas, oil, hydraulic fluid) occur on site, stop work and contact supervisor immediately.

CONTAMINATED SOILS

4. Whenever soil exhibiting obvious signs of contamination is encountered during excavation or installation, cease work immediately, take appropriate precautions to ensure worker health and safety, and contact operations supervisor or inspector.

EROSION CONTROL

5. Erosion control measures will meet or exceed the approved WDNR Storm Water Management Technical Standards as outlined in <http://dnr.wi.gov/runoff/stormwater/techstds.htm>
6. During winter, there will be no stockpiling spoils on ground.

DEWATERING

7. Dewatering of pits or trenches shall be done in accordance with state standards. Use an approved sediment bag, a straw bale dewatering basin, a combination of both, or equivalent.

WETLANDS

8. No work will be performed within the banks or below the ordinary high watermark of the unnamed waterway or tributaries.
9. As much as practicable, the majority of work will be staged from the public roadways and road shoulders, keeping equipment out of adjacent wetlands.
10. All work will be conducted to minimize soil disturbance. No rutting will be allowed within the wetlands.
11. If soils are not frozen or stable to a point that avoids rutting, timber mats, mud tracks, or equivalent will be utilized to access pole locations.
12. Excavated spoils will not be stockpiled in wetlands. All excess spoils will be removed from wetlands and placed in a suitable upland location.
13. Trenching and pit excavations within wetlands will include soil segregation to facilitate restoration of pre-construction soil stratification, and restoration to pre-construction elevations.
14. Any poles scheduled to be removed, and that occur within wetland will be cut at ground surface.
15. If soil disturbance occurs on slopes leading to wetlands, or within wetland, the disturbed areas will be stabilized and appropriate erosion control best management practices will be implemented.

WATERWAYS

16. No work can be performed within the banks or below the ordinary high watermark of any navigable waterway or stream. No crossing of navigable waterways with equipment can occur.
17. Any soil being disturbed within 75 feet of an ordinary high water mark of any navigable waterway or stream to be stabilized within 24 hours of construction completion.

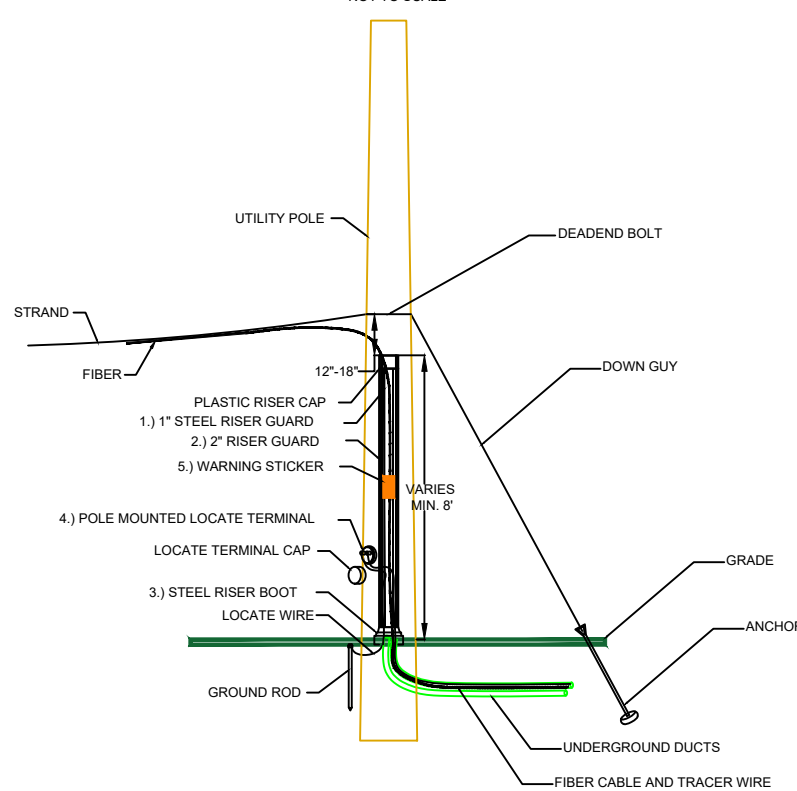
SURFACE RESTORATION

18. Temporary soft restoration to stabilize the work site shall be completed in a timely manner during and immediately following utility construction.
19. The contractor performing the work shall notify WisDOT as soon as final restoration has been completed and the work site is ready for inspection.

FRAC-OUT

20. Refer to the frac-out contingency plan for any boring work being performed.

RISER POLE DETAIL NOT TO SCALE



- 1.) INSTALL 1" STEEL RISER GUARD OVER CABLE FROM INSIDE HDPE TO 12"-18" FROM STRAND AND FOAM SEAL THE REMAINING GAP BETWEEN RISER AND THE LIP OF THE HDPE
- 2.) PLACE 2" RISER U-GUARD ON POLE, MINIMUM AT GRADE OR BELOW TO 12"-18" BELOW STRAND, BOTTOM SECTION STEEL AND UPPER SECTION PLASTIC
- 3.) PLACE STEEL RISER BOOT
- 4.) PLACE LOCATE TERMINAL ON POLE BETWEEN 3' AND 5' ABOVE GRADE
- 5.) WARNING BURIED FIBER OPTIC CABLE STICKER PLACED AT 4'-6" FROM GRADE

MWFN/MND Redlines/Field Asbuilt Guidelines

RETAINAGE PAYMENT WILL NOT BE MADE UNTIL ACCURATE AND COMPLETE REDLINES/FIELD ASBUILTS HAVE BEEN TURNED IN AND REVIEWED BY MWFN/MND. REDLINES/FIELD ASBUILTS WILL NOT BE ACCEPTED IF IN PENCIL.

Only one (1) as-built print shall be submitted per construction print with the below requirements. The print set issued to the contractor is the print set that is required to be returned to MWFN, all pages issued, in the order in which the original print set was issued.

For Aerial Construction:

New aerial attachment heights (from ground) at each pole must be provided if different from construction plan set.

Any extension arms added or deleted need to be noted if different from construction plan set.

Pole numbers/tags must be verified with information provided on prints. For all new attachments, numbers/tags are to be provided by the contractor. If existing attachment pole numbers/tags are incorrect on print, provide updated numbers/tags.

Indicate the mid span height for all railroad, roadway and freeway crossings. Mid span height to be indicated at its lowest point for the aerial crossing, cable, or overhead guy from existing roadway surface or railbed and the current temperature.

Note locations of locates pucks, riser quadrant locations, down guy sizes, and anchor sizes & locations if different than prints.

Cable footages (sequential) are required at the following locations; top of risers, all pole attachment locations, splice enclosures as the cable enter/exits and in and out of all storage loops.

For Underground Construction:

Running lines need to indicate the offset distance to the nearest foot from a permanent hard surface area every 50' for bore installations and every 250' for plow installations. Only the following permanent hard surface areas will be accepted; EOP - edge of pavement, BOC - back of curb, CL - road center line, or BOW - back of walk. Additional distances off other physical features on the prints can be used to supplement hard surface measurements. All prints for redlines/as-builts will clearly show any deviation from proposed running line and state the reason for the deviation.

Depth of installations must be provided at each noted permanent structure offset to the nearest inch and at every location that breaches minimum depth requirement. Example - 12' EOP 38" D.

All conduit coupler locations must be identified along with depth, offset (as described above) and linear offset. Linear offset location to be measured along the route from nearest physical feature ex: sign post, driveway, power pole.

Size, number and type of conduit must be identified if different than proposed on the construction prints.

All hand hole and manhole locations must have GPS coordinates provided. Size of HH or MH's must be identified if different than proposed on prints.

All locate posts (above grade or flush mount) and marker posts must be identified and called out if different than proposed on prints.

All fiber splice locations must be identified if different than what is on the proposed prints.

Cable footages (sequential) are required at the following locations; in & out of manholes and/or hand holes, splice enclosures as the cable enter/exits and in and out of all storage loops.

Note the size and location of all hard surface excavation. Ex. sidewalks, cores, and open cuts. Provide date/time stamped photos of all restored hard surface locations.

For Inside (ISP) Construction

Note size and location of all wall cores and provide photo asbuilt of both sides.

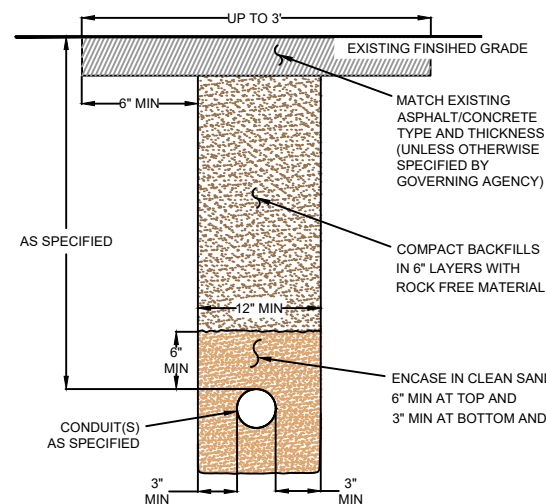
Photo documentation of asbuilt ISP route to be provided.

All prints for redlines/asbuilts will clearly show any deviation from proposed ISP route and state the reason for deviation and approvals received

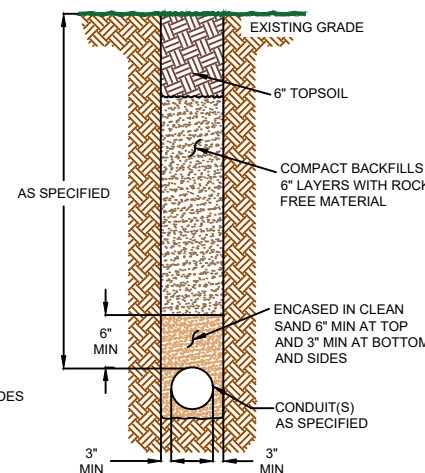
Cable footages (sequential) are required at the following locations; building entrance, pull boxes, floor(level) changes, storage loops, and at the equipment.

Any changes requested from MWFN, must be noted on the asbuilt prints. Include date, time, and name of MWFN representative that approved the change. Provide email documentation of all changes along with notes.

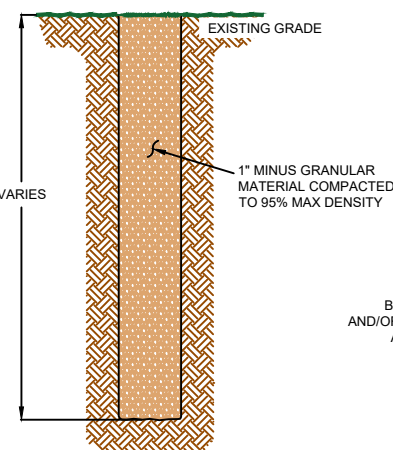
REMOVE AND RESTORE CONCRETE OR ASPHALT PAVEMENT (UNLESS OTHERWISE SPECIFIED BY GOVERNING AGENCY) NOT TO SCALE



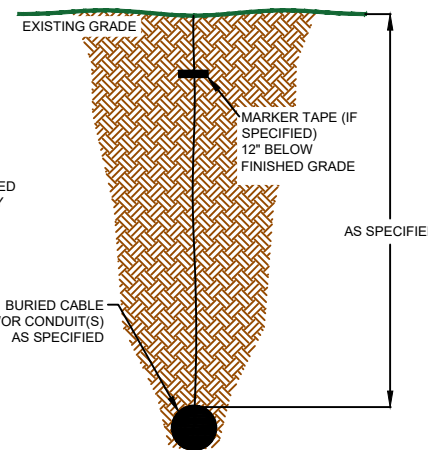
TRENCH & PLACE CONDUIT NOT TO SCALE



POTHOLE FILL NOT TO SCALE



TYPICAL PLOW DETAIL NOT TO SCALE



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**MIDWEST
FIBER
NETWORKS**

414.672.5612
6070 N FLINT RD
GLENDALE, WI 53209

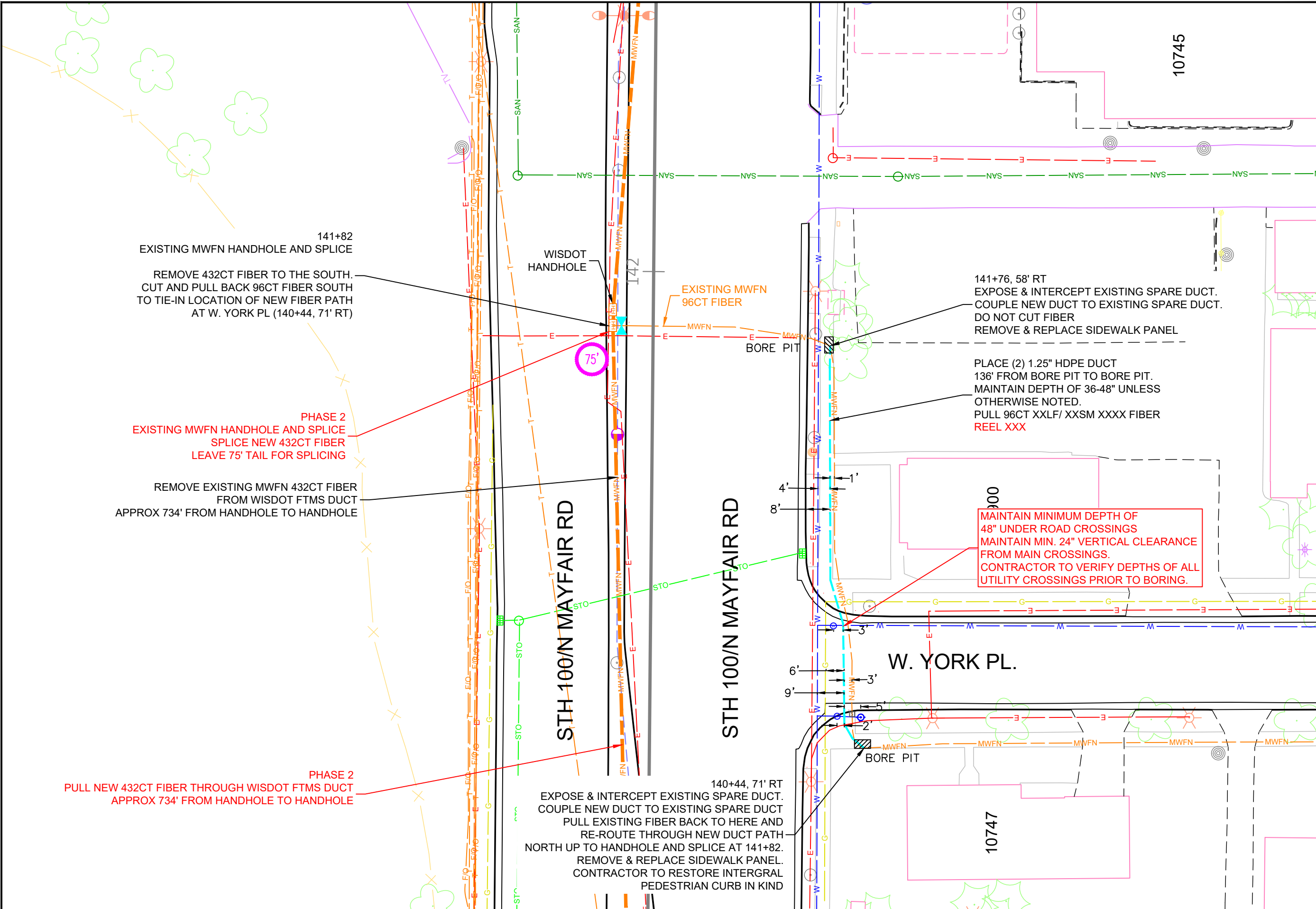
OSP ENGINEER: CORY SCHMUKI
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION

2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
DATE: 4/29/26
DRAWN BY: TFG-MWFN
DRAWING SCALE: NTS

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE



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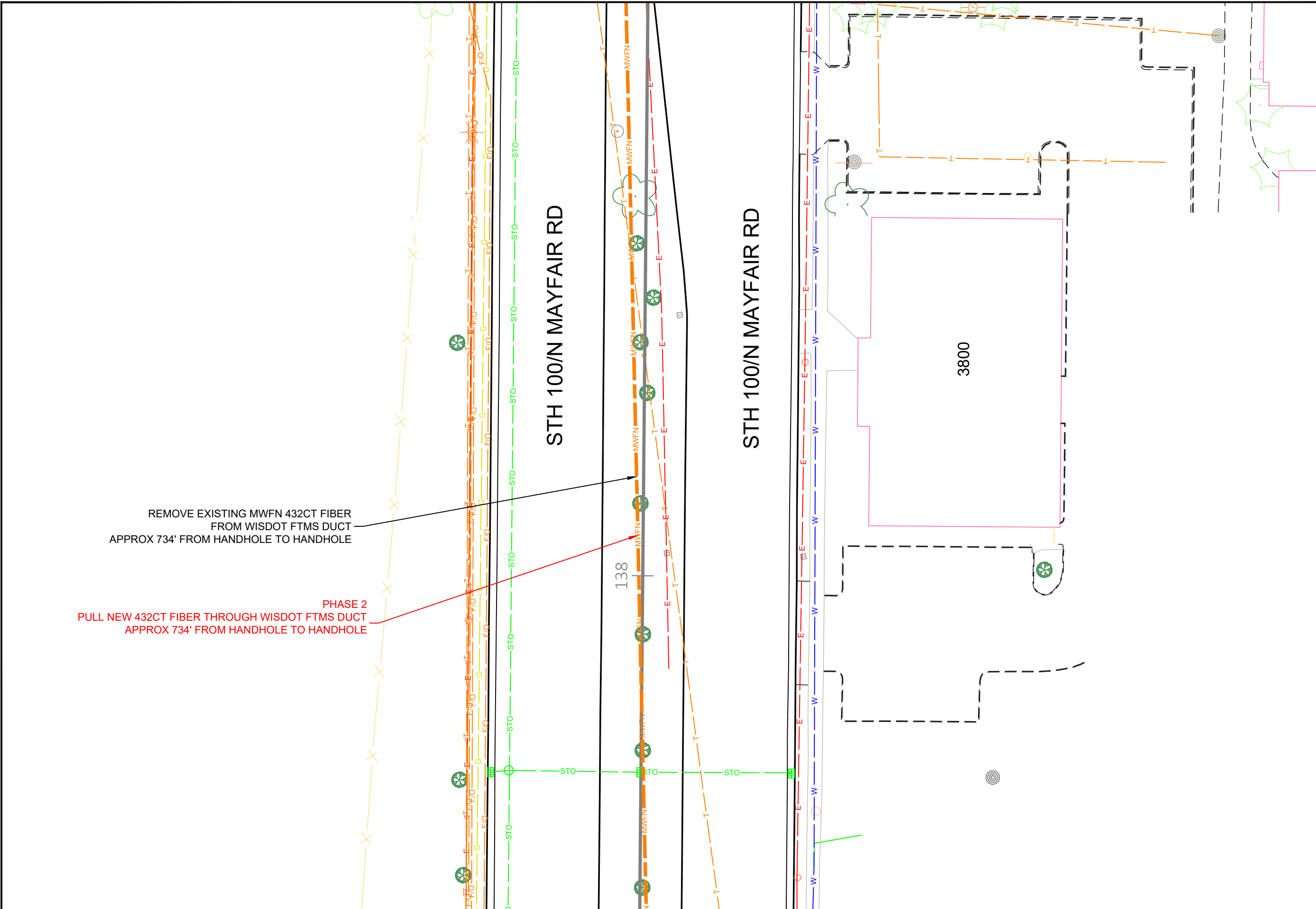
414.672.5612
6070 N FLINT RD
GLENDALE, WI 53209

OSP ENGINEER: CORY SCHMUKI
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION
2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: CI WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
DATE: 4/29/26
DRAWN BY: TFG-MWFN
DRAWING SCALE: 1" = 30'

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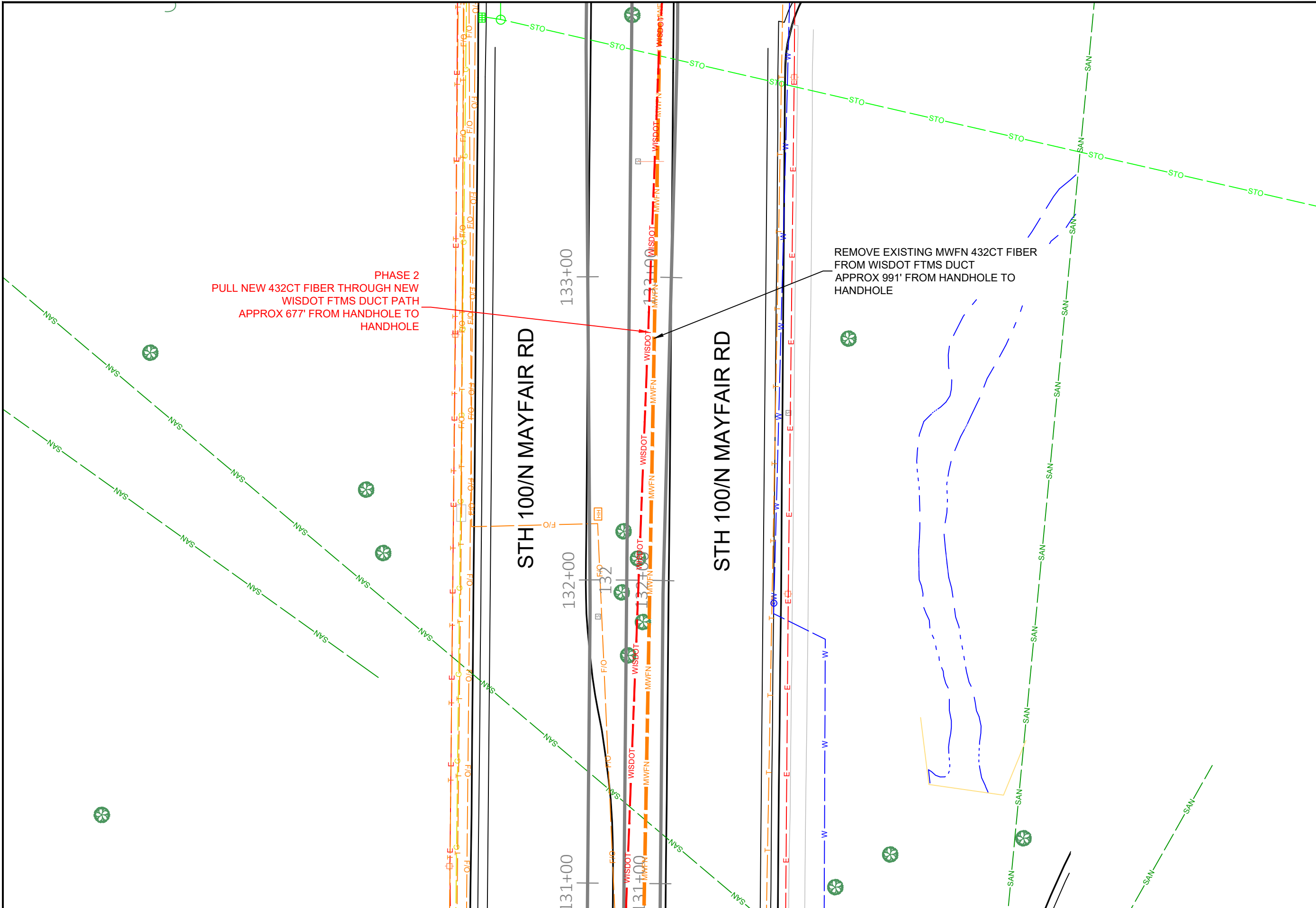
OSP ENGINEER: CORY SCHMUKI

EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION
2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
DATE: 4/29/26
DRAWN BY: TFG-MWFN
DRAWING SCALE: 1" = 30'

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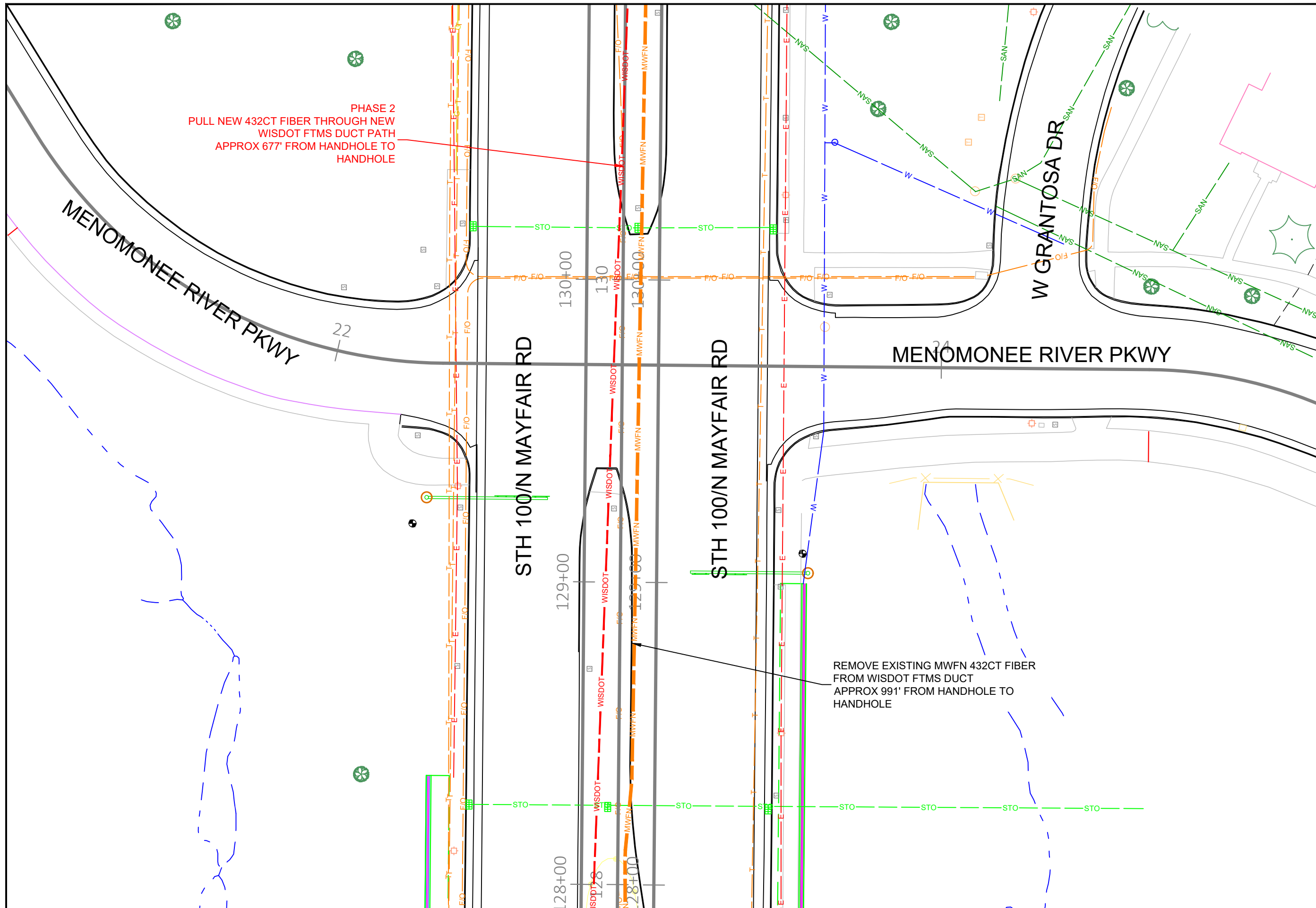
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION

2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY:	C/ WAUWATOSA
COUNTY:	MILWAUKEE
STATE:	WI
TOWN RANGE SEC:	T7N R21E SEC8
DATE:	4/29/26
DRAWN BY:	TFG-MWFN
DRAWING SCALE:	1" - 30'

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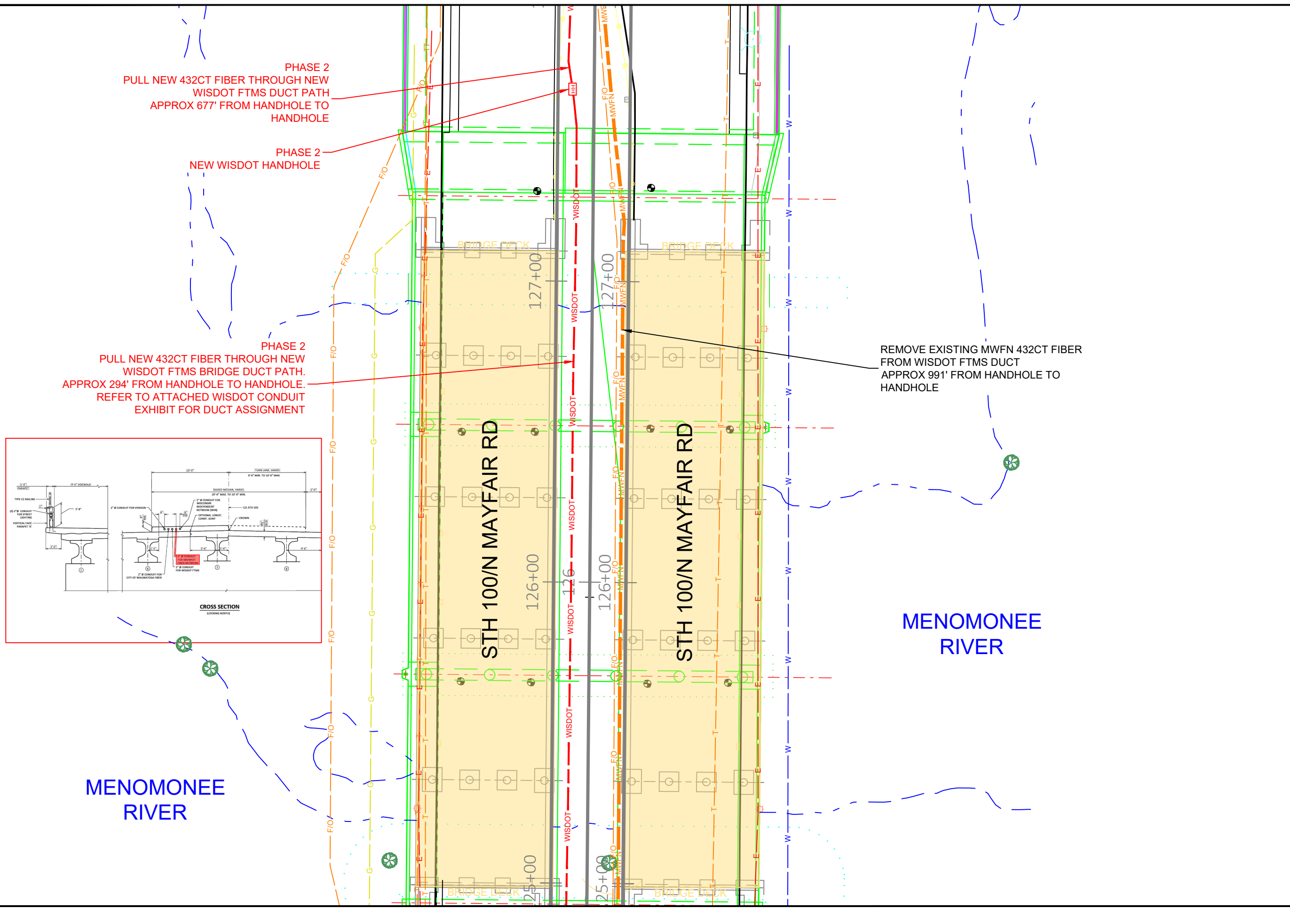
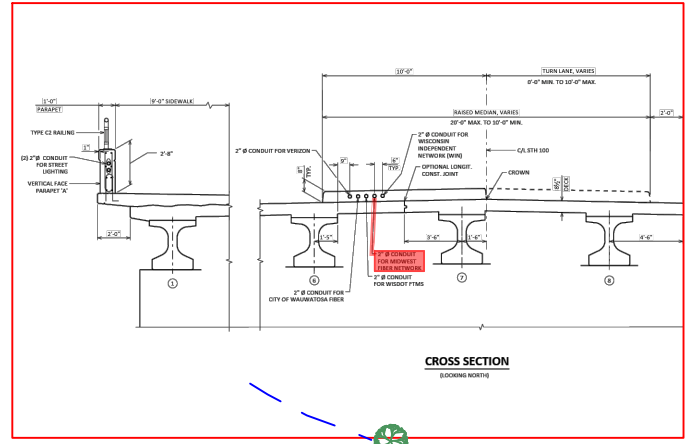
REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

PHASE 2
PULL NEW 432CT FIBER THROUGH NEW
WISDOT FTMS DUCT PATH
APPROX 677' FROM HANDHOLE TO
HANDHOLE

PHASE 2
NEW WISDOT HANDHOLE

PHASE 2
PULL NEW 432CT FIBER THROUGH NEW
WISDOT FTMS BRIDGE DUCT PATH.
APPROX 294' FROM HANDHOLE TO HANDHOLE.
REFER TO ATTACHED WISDOT CONDUIT
EXHIBIT FOR DUCT ASSIGNMENT

REMOVE EXISTING MWFN 432CT FIBER
FROM WISDOT FTMS DUCT
APPROX 991' FROM HANDHOLE TO
HANDHOLE



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GLENDALE, WI 53209

OSP ENGINEER: CORY SCHMUKI

EMERGENCY
NOTIFICATION
NUMBER: 1-866-831-1661

CONSTRUCTION

2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
DATE: 4/29/26
DRAWN BY: TFG-MWFN
DRAWING SCALE: 1" = 30'

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

PHASE 2
PULL NEW 432CT FIBER THROUGH NEW
WISDOT FTMS BRIDGE DUCT PATH.
APPROX 294' FROM HANDHOLE TO HANDHOLE.
REFER TO ATTACHED WISDOT CONDUIT
EXHIBIT FOR DUCT ASSIGNMENT

PHASE 2
NEW WISDOT HANDHOLE

CURRIE PARK
GOLF COURSE

PHASE 2
PULL NEW 432CT FIBER THROUGH NEW
WISDOT FTMS DUCT PATH
APPROX 719' FROM HANDHOLE TO
HANDHOLE

CURRIE PARK ENTRANCE

122+36
REPLACE & RELOCATE EXISTING MWFN HANDHOLE
& SPLICE APPROX 4' WEST TO ACCOMODATE
NEW CURB & GUTTER UNDERBUILD.
ADJUST & LEVEL HANDHOLE TO FINAL GRADE
AFTER FILL IS PLACED BY ROAD CONTRACTOR.

LEAVE 150' SLACK LOOP
ADD LOCATE BRACKET FOR TRACER WIRE

ACTIVE MWFN 12CT FIBER

PLACE (2) 1.25" HDPE DUCT AND #8
TRACER WIRE
257' FROM BORE PIT TO HANDHOLE.
MAINTAIN DEPTH OF 36-48" UNLESS
OTHERWISE NOTED.
PULL 12CT 6LF/ 6SM OFNR FIBER
REEL 012

REMOVE EXISTING MWFN 432CT FIBER
FROM WISDOT FTMS DUCT
APPROX 991' FROM HANDHOLE TO
HANDHOLE

EXISTING WISDOT HANDHOLE

REMOVE EXISTING MWFN 432CT FIBER
FROM WISDOT FTMS DUCT
APPROX 214' FROM HANDHOLE TO
HANDHOLE

EXISTING WISDOT HANDHOLE

MENOMONEE
RIVER
PARKWAY

STH 100/N MAYFAIR RD

STH 100/N MAYFAIR RD

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**MIDWEST
FIBER
NETWORKS**

414.672.5612
6070 N FLINT RD
GLENDALE, WI 53209

OSP ENGINEER: CORY SCHMUKI
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION
2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA	STATE: WI
COUNTY: MILWAUKEE	TOWN RANGE SEC: T7N R21E SEC8
DATE: 4/29/26	DRAWN BY: TFG-MWFN
DRAWING SCALE: 1" = 30'	

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

CURRIE PARK
GOLF COURSE

PHASE 2
PULL NEW 432CT FIBER THROUGH NEW
WISDOT FTMS DUCT PATH
APPROX 719' FROM HANDHOLE TO
HANDHOLE

PLACE (2) 1.25" HDPE DUCT AND #8
TRACER WIRE
257' FROM BORE PIT TO HANDHOLE.
MAINTAIN DEPTH OF 36-48" UNLESS
OTHERWISE NOTED.
PULL 12CT 6LF/ 6SM OFNR FIBER
REEL 012

PLACE (2) 1.25" HDPE DUCT AND #8
TRACER WIRE
246' FROM BORE PIT TO HANDHOLE.
MAINTAIN DEPTH OF 36-48" UNLESS
OTHERWISE NOTED.
PULL 12CT 6LF/ 6SM OFNR FIBER
REEL 012

STH 100/N MAYFAIR RD

STH 100/N MAYFAIR RD

MENOMONEE
RIVER
PARKWAY

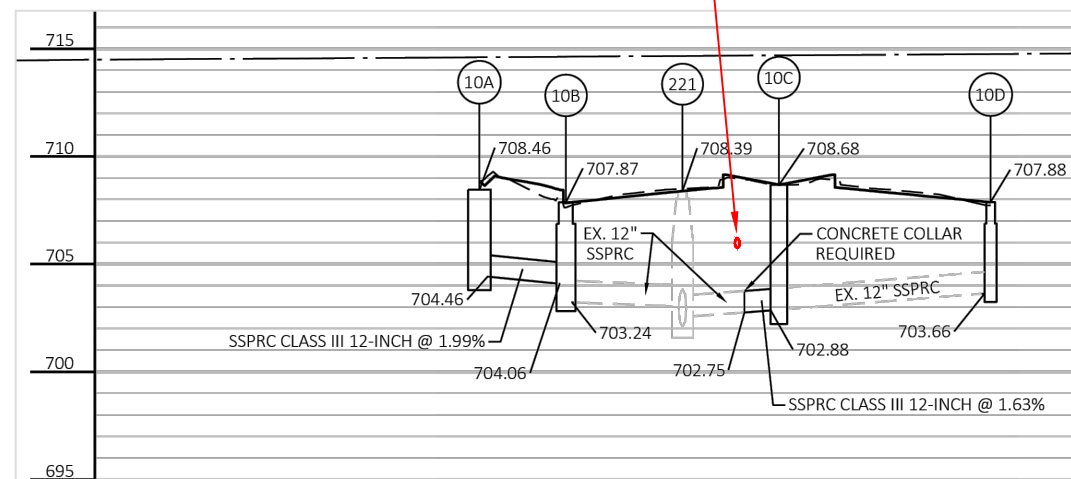
121+01
PROPOSED 24" ST GAS MAIN
CROSSING @ 48" DEEP

BORE MWFN MIN 60" DEEP

REMOVE EXISTING MWFN 432CT FIBER
FROM WISDOT FTMS DUCT

119+50
PROPOSED 12" STORM CROSSING.
TOP OF STORM MAIN APPROX. 63" DEEP

BORE MWFN 36" DEEP



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6070 N FLINT RD
GLENDALE, WI 53209
OSP ENGINEER: CORY SCHMUKI
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION
2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: CI WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
DATE: 4/29/26
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REV. NO.	DESCRIPTION	BY	DATE

CURRIE PARK
GOLF COURSE

MENOMONEE
RIVER
PARKWAY

PLACE (2) 1.25" HDPE DUCT AND #8
TRACER WIRE
246' FROM BORE PIT TO HANDHOLE.
MAINTAIN DEPTH OF 36-48" UNLESS
OTHERWISE NOTED.
PULL 12CT 6LF/ 6SM OFNR FIBER
REEL 012

PHASE 2
PULL NEW 432CT FIBER THROUGH
NEW WISDOT FTMS DUCT PATH
APPROX 719' FROM HANDHOLE TO
HANDHOLE

117+34
PLACE (1) 30" X 48" X 36"
HANDHOLE ON 6" GRAVEL BASE
SPlice NEW 12CT TO EXISTING 432CT
LEAVE 150' SLACK LOOP
INSTALL LOCATE BRACKET

PHASE 2
EXISTING MWFN HANDHOLE AND SPLICE
SPLICE NEW 432CT FIBER
LEAVE 75' TAIL FOR SPLICING

PLACE (2) 1.25" HDPE DUCT AND #8 TRACER WIRE
2' FROM HANDHOLE TO WISDOT HANDHOLE
MAINTAIN DEPTH OF 36-48" UNLESS OTHERWISE NOTED.
PULL EXISTING 432CT INTO NEW MWFN HANDHOLE
FOR SPLICING

REMOVE EXISTING MWFN 432CT FIBER
FROM WISDOT FTMS DUCT.

EXISTING WISDOT HANDHOLE

PULL EXISTING 432CT FIBER BACK FROM
NORTH TO WISDOT HANDHOLE.
INSTALL INTO NEW MWFN HANDHOLE
LEAVE 75' TAIL FOR SPLICING NEW 12CT.

W. KEEFE AVE.

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OSP ENGINEER: CORY SCHMUKI
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION

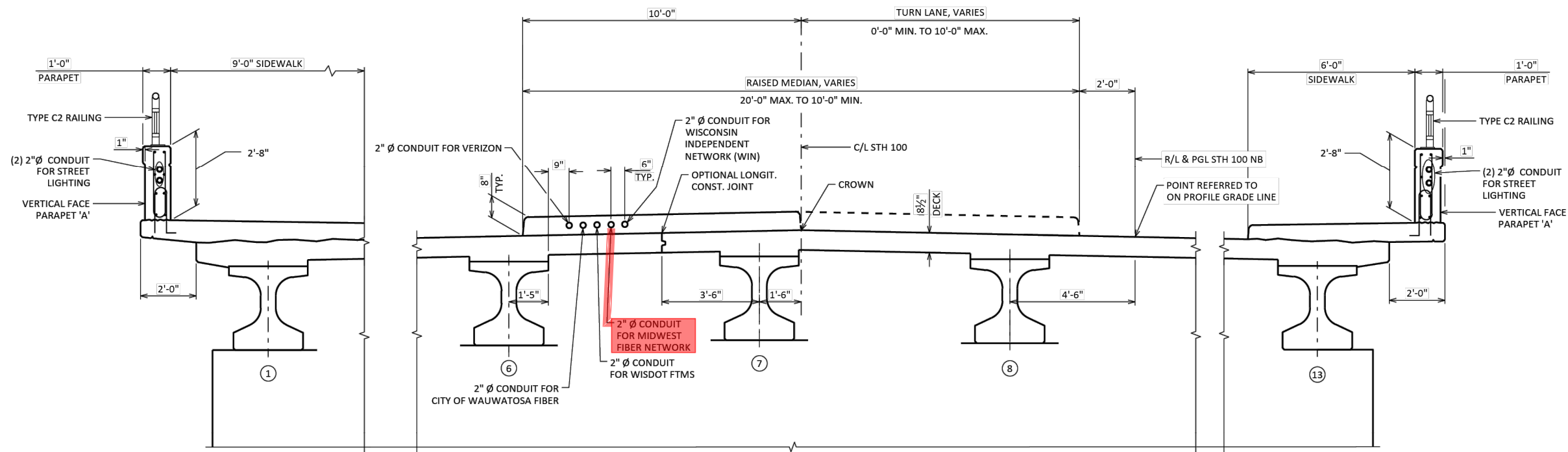
2207049
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WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
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DRAWN BY: TFG-MWFN
DRAWING SCALE: 1" = 30'

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STATE PROJECT NUMBER

2030-10-71



CROSS SECTION
(LOOKING NORTH)

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CONSTRUCTION

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WAUWATOSA, WI

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TOWN RANGE SEC: T7N R21E SEC8
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REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-1029

DRAWN BY: CWG PLANS CK'D

CONDUIT EXHIBIT SHEET X OF X

PAGE 1 OF 6

Date: 3/11/2024 **Author:** Midwest Fiber Networks **Project:** N Mayfair Rd - 2207049 Relocation - Lane Closures

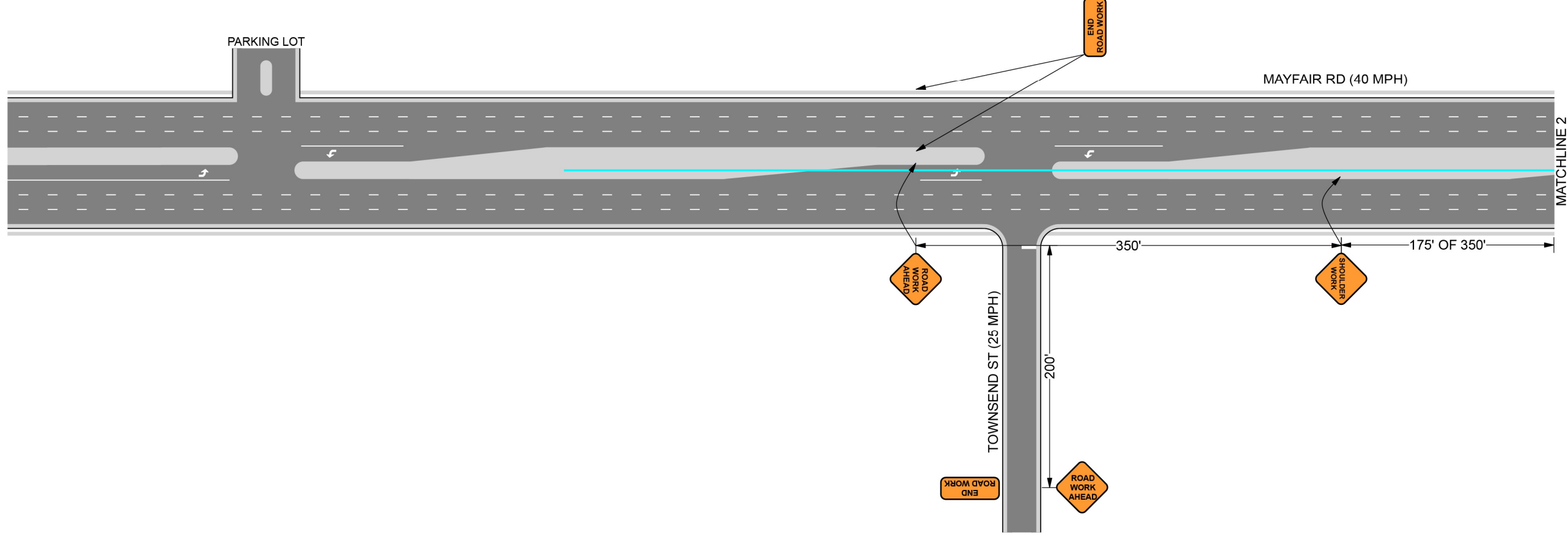
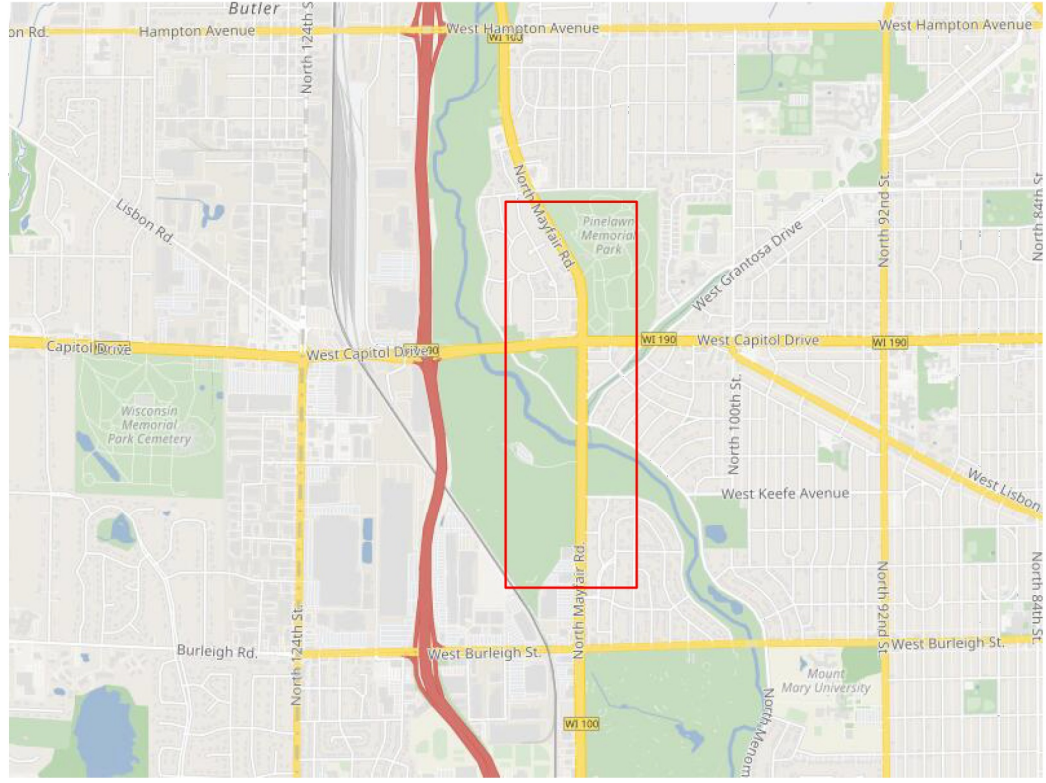
Comments:
 NOT TO SCALE

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2207049
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 WAUWATOSA, WI

MUNICIPALITY: CI WAUWATOSA
 COUNTY: MILWAUKEE STATE: WI
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 DATE: 4/29/26
 DRAWN BY: TFG-MWFN
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PAGE 2 OF 6

Date: 3/11/2024 **Author:** Midwest Fiber Networks **Project:** N Mayfair Rd - 2207049 Relocation - Lane Closures

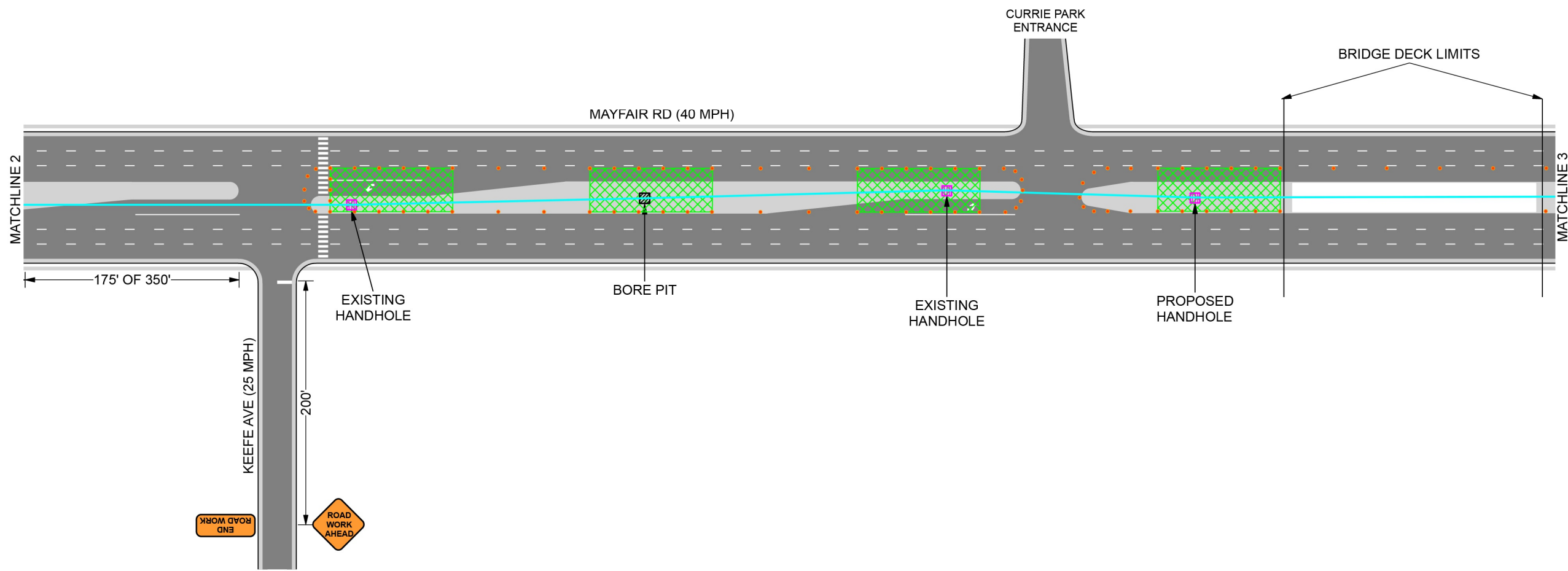
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2207049
 RELO - HWY 100 BRIDGE & ROAD WORK
 WAUWATOSA, WI

MUNICIPALITY:	CI WAUWATOSA
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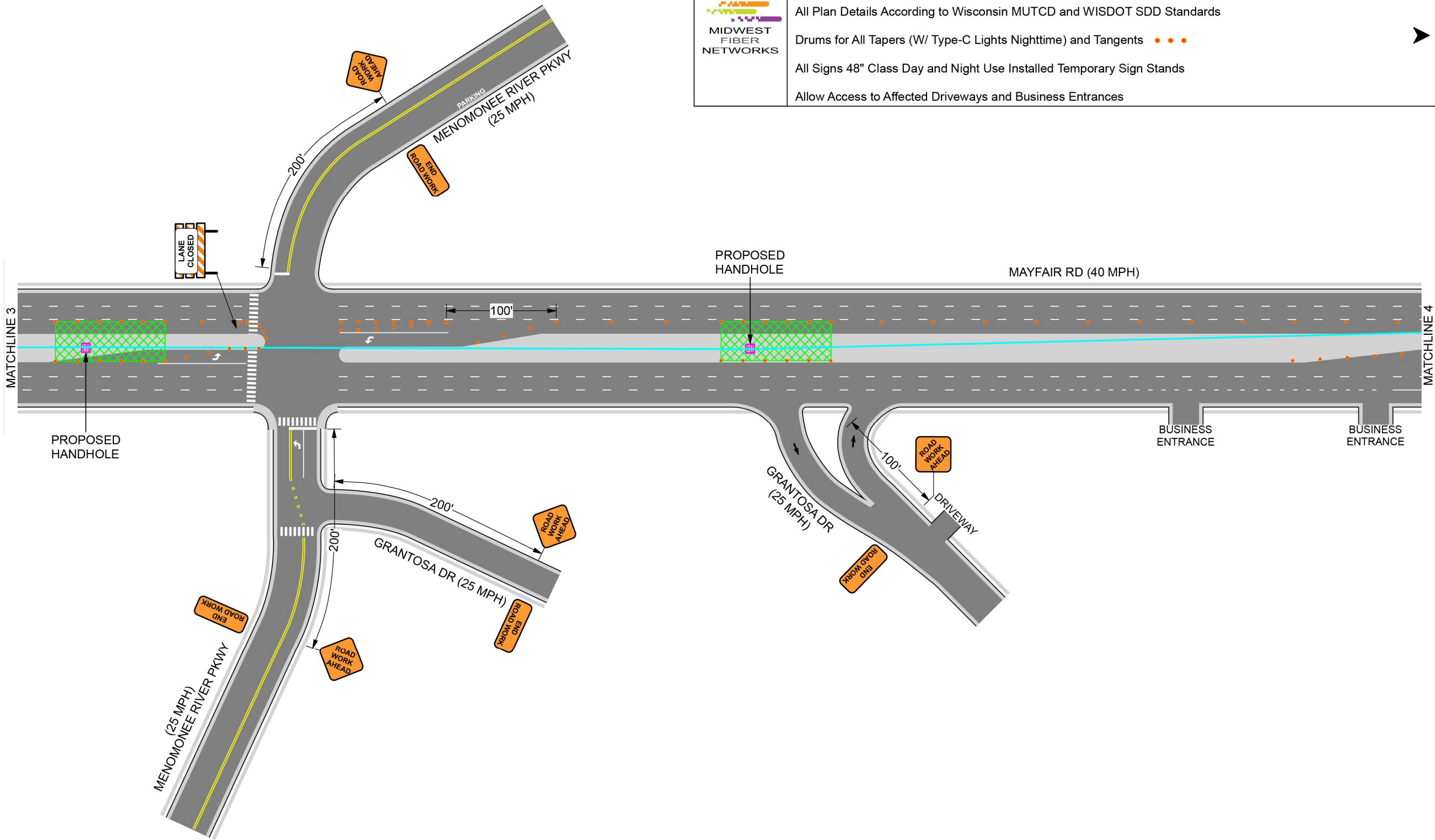
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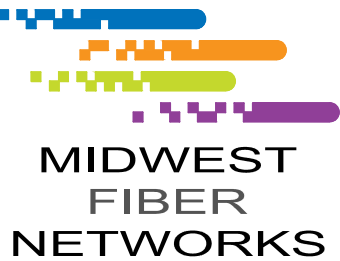
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Date: 3/11/2024 **Author:** Midwest Fiber Networks **Project:** N Mayfair Rd - 2207049 Relocation - Lane Closures

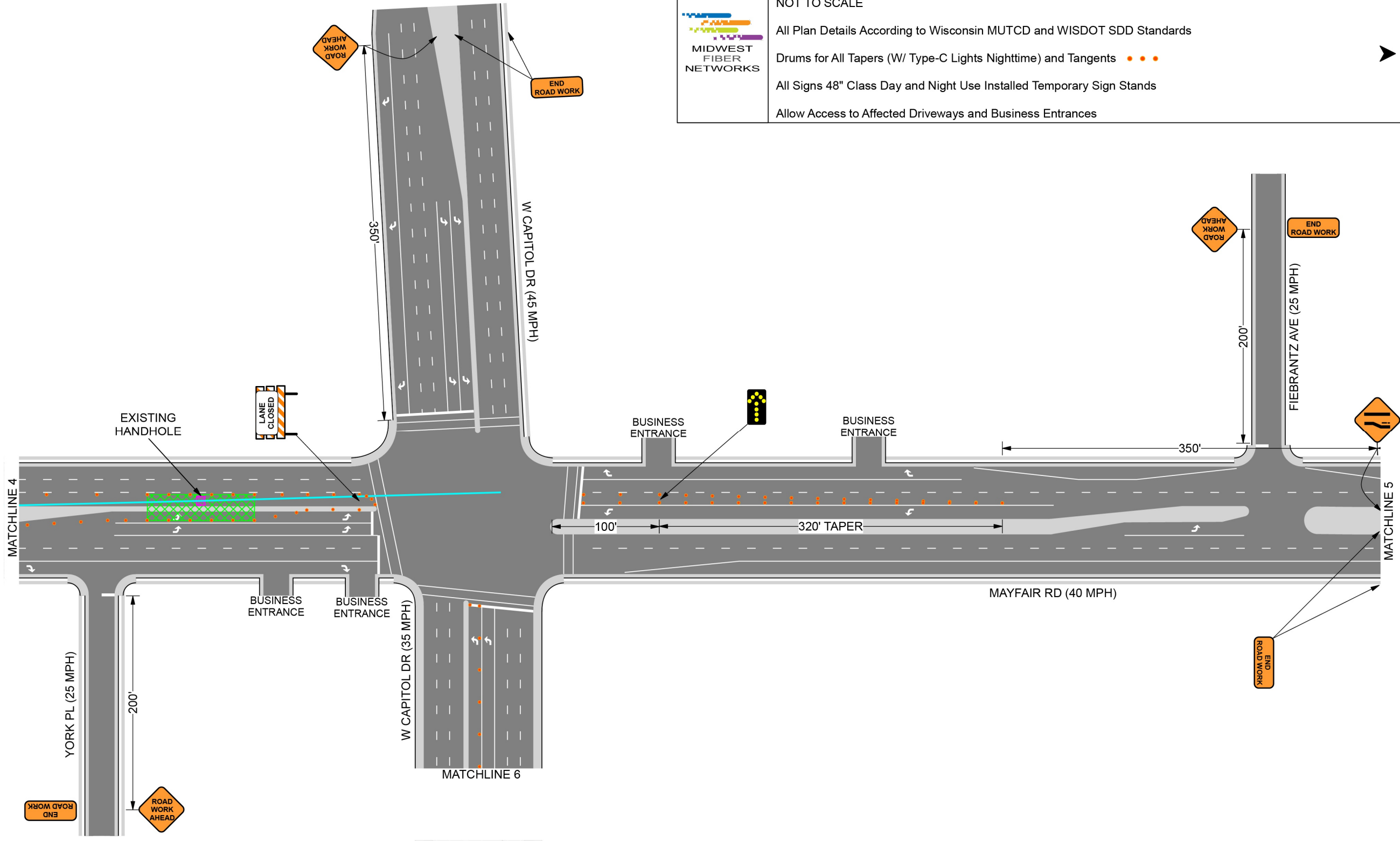
Comments:
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All Plan Details According to Wisconsin MUTCD and WISDOT SDD Standards

Drums for All Tapers (W/ Type-C Lights Nighttime) and Tangents ●●●

All Signs 48" Class Day and Night Use Installed Temporary Sign Stands

Allow Access to Affected Driveways and Business Entrances



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2. RESTORE ALL DISTURBED LAWN AREAS WITH TOPSOIL AND SEED AND COMPLY WITH ANY PROVISIONS SET FORTH BY THE MUNICIPALITY OR PERMIT AUTHORITY.
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MIDWEST FIBER NETWORKS

414.672.5612
 6070 N FLINT RD
 GLENDALE, WI 53209


OSP ENGINEER: CORY SCHMUKI
 EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

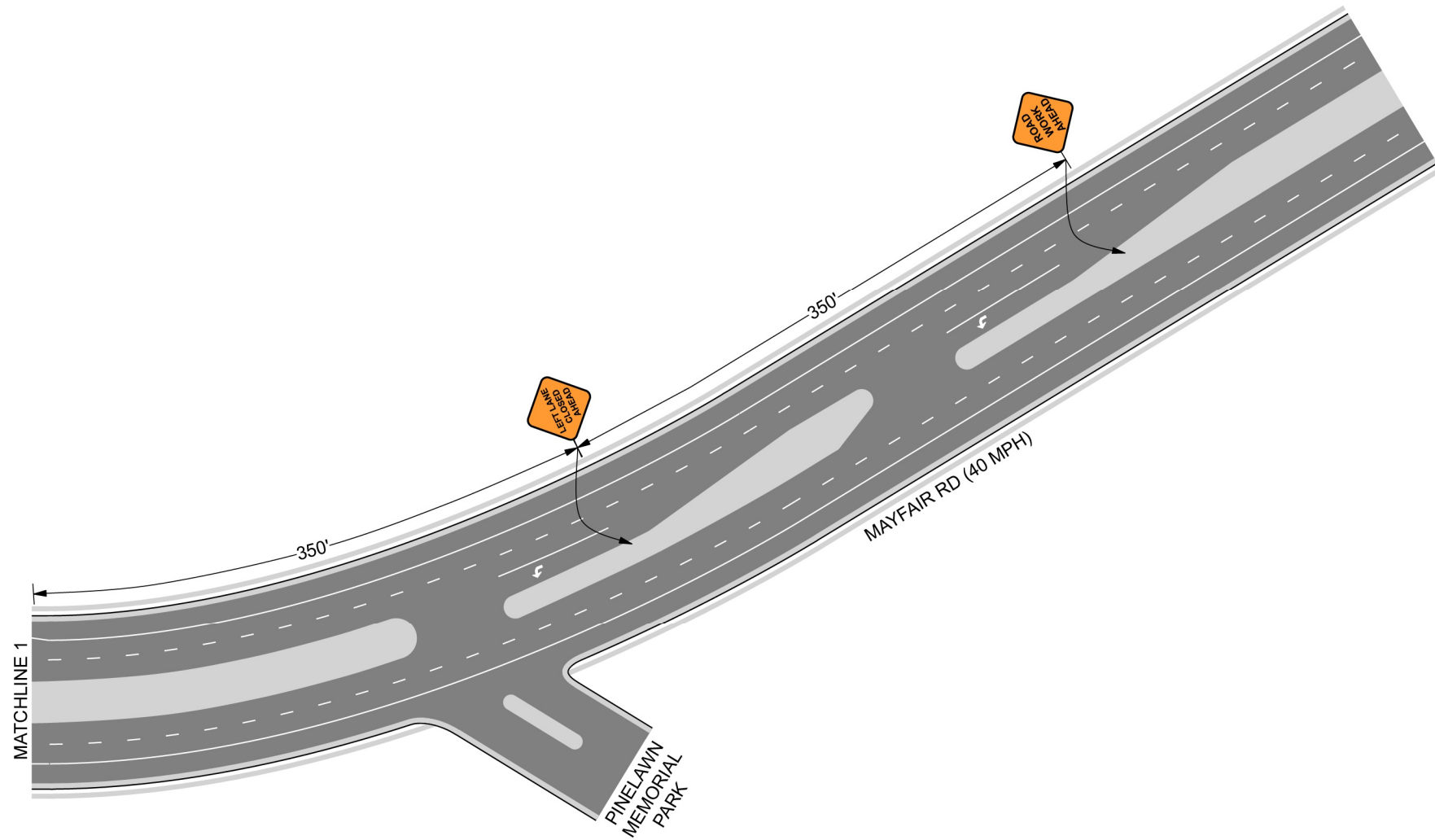
CONSTRUCTION
2207049
 RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
DATE: 4/29/26
DRAWN BY: TFG-MWFN
DRAWING SCALE: NTS

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PAGE 5 OF 6

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2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY:	C/ WAUWATOSA
COUNTY:	MILWAUKEE
STATE:	WI
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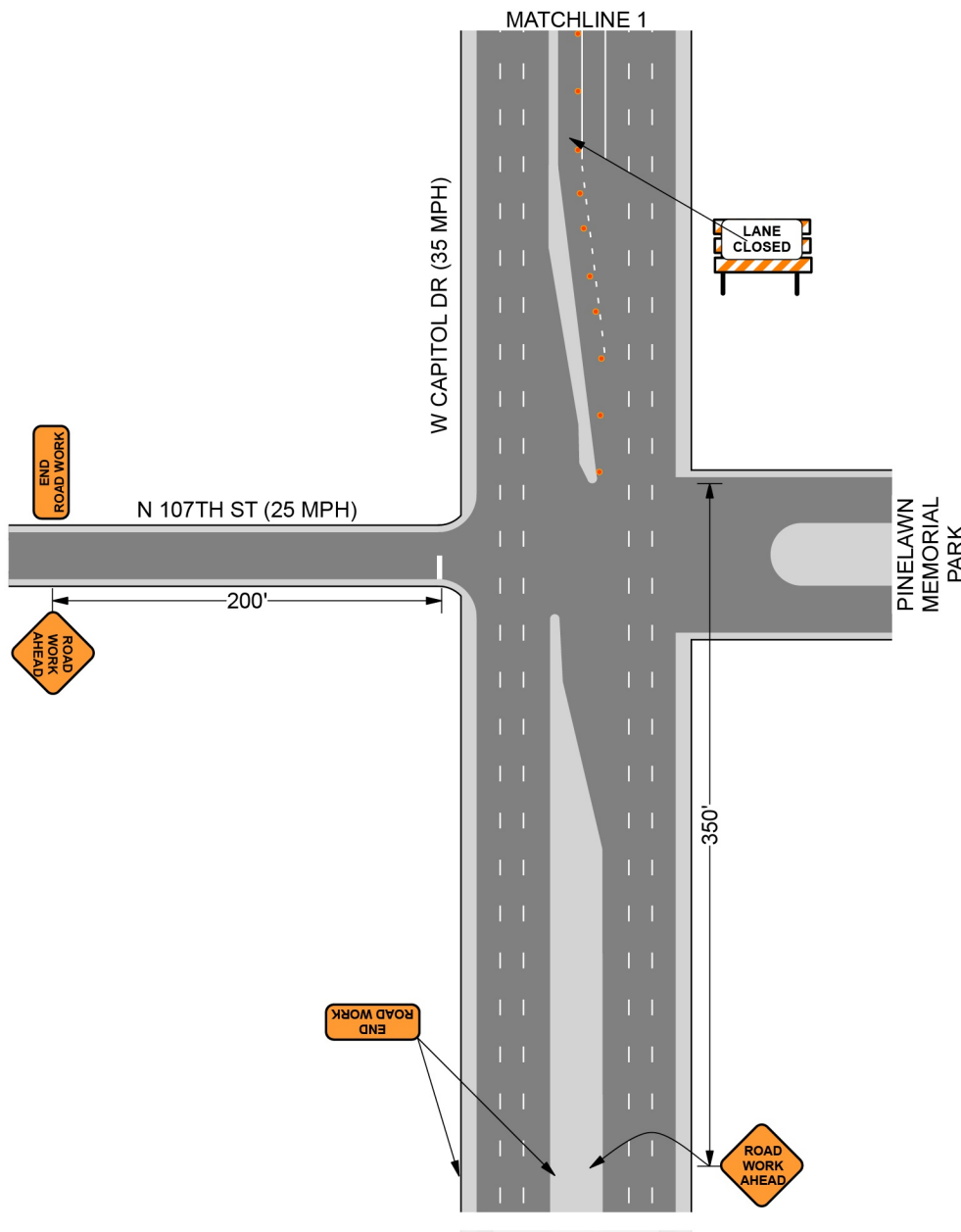
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








CONSTRUCTION

2207049
 RELO - HWY 100 BRIDGE & ROAD WORK
 WAUWATOSA, WI

MUNICIPALITY:	C/ WAUWATOSA
COUNTY:	MILWAUKEE
STATE:	WI
TOWN RANGE SEC:	T7N R21E SEC8
DATE:	4/29/26
DRAWN BY:	TFG-MWFN
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LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  WORK AREA
-  UNDER PEDESTRIAN TRAFFIC
-  TEMPORARY CURB RAMP
-  TEMPORARY PEDESTRIAN SURFACE "A"
-  TEMPORARY PEDESTRIAN SURFACE "B"
-  TEMPORARY PEDESTRIAN BARRICADE
-  DIRECTION OF TRAFFIC

GENERAL NOTES

- TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.
- WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.
- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.
 - ② PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.
 - ③ MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.
 - ④ USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURFACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.

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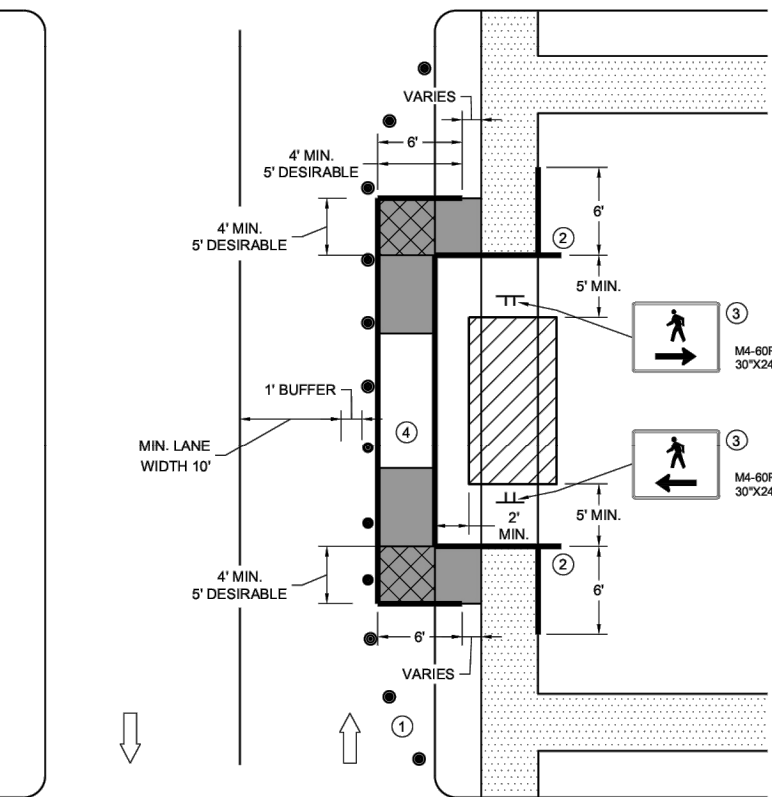


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6

SDD 15D30-12h




SIDEWALK BYPASS, SINGLE SIDE

**TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30-12h



**MIDWEST
FIBER
NETWORKS**

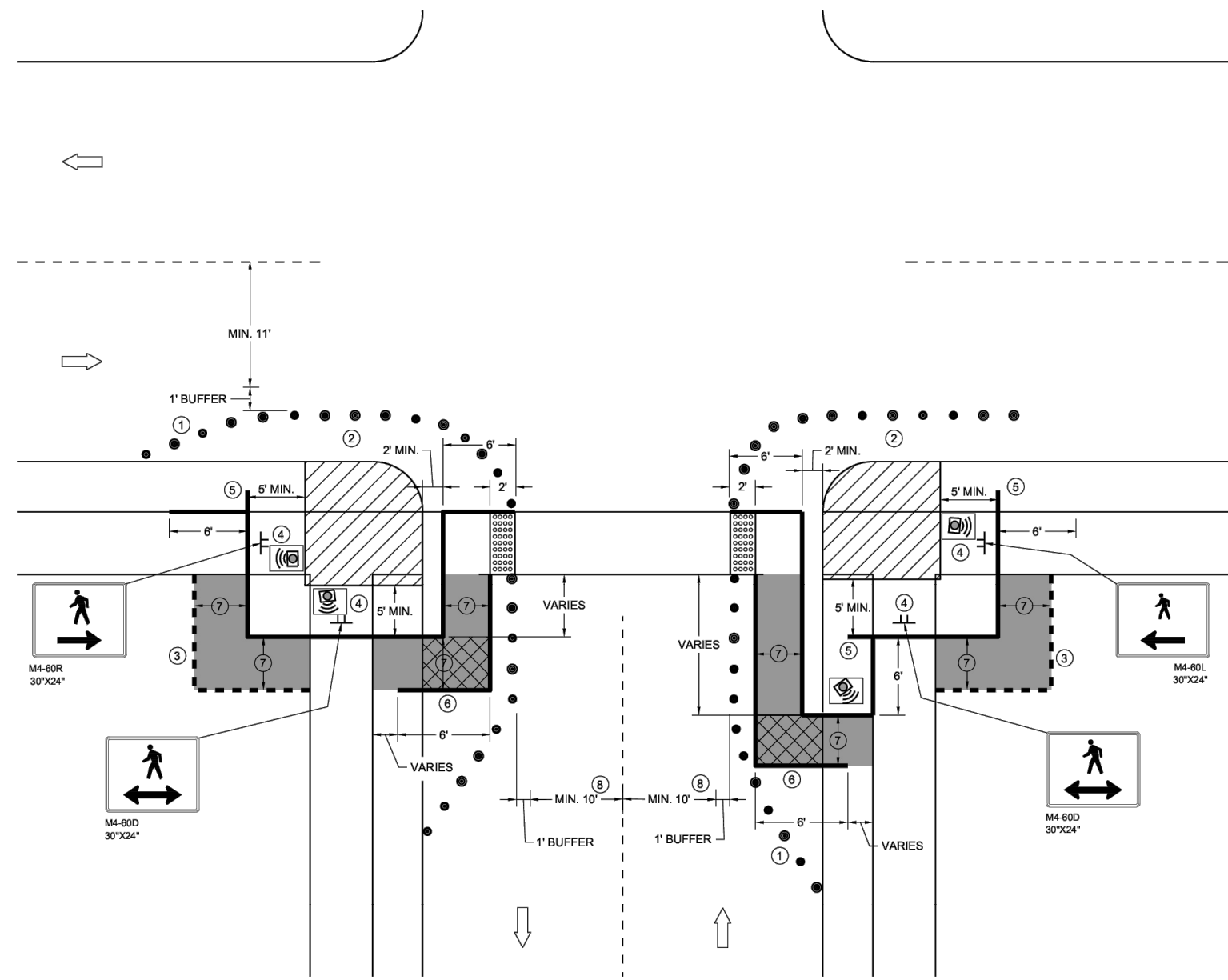
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OSP ENGINEER: CORY SCHMUKI
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION
2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY: C/ WAUWATOSA
COUNTY: MILWAUKEE STATE: WI
TOWN RANGE SEC: T7N R21E SEC8
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**CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE**

GENERAL NOTES

- IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.
- TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG
- WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.
- WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.
- ① SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
 - ② PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
 - ③ USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
 - ④ MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
 - ⑤ PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
 - ⑥ IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
 - ⑦ 4 FEET MINIMUM, 5 FEET DESIRABLE
 - ⑧ IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMP MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC
- TEMPORARY AUDIBLE MESSAGE DEVICE (EXACT PLACEMENT BASED UPON FIELD CONDITIONS)

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PEDESTRIAN ACCOMMODATION**

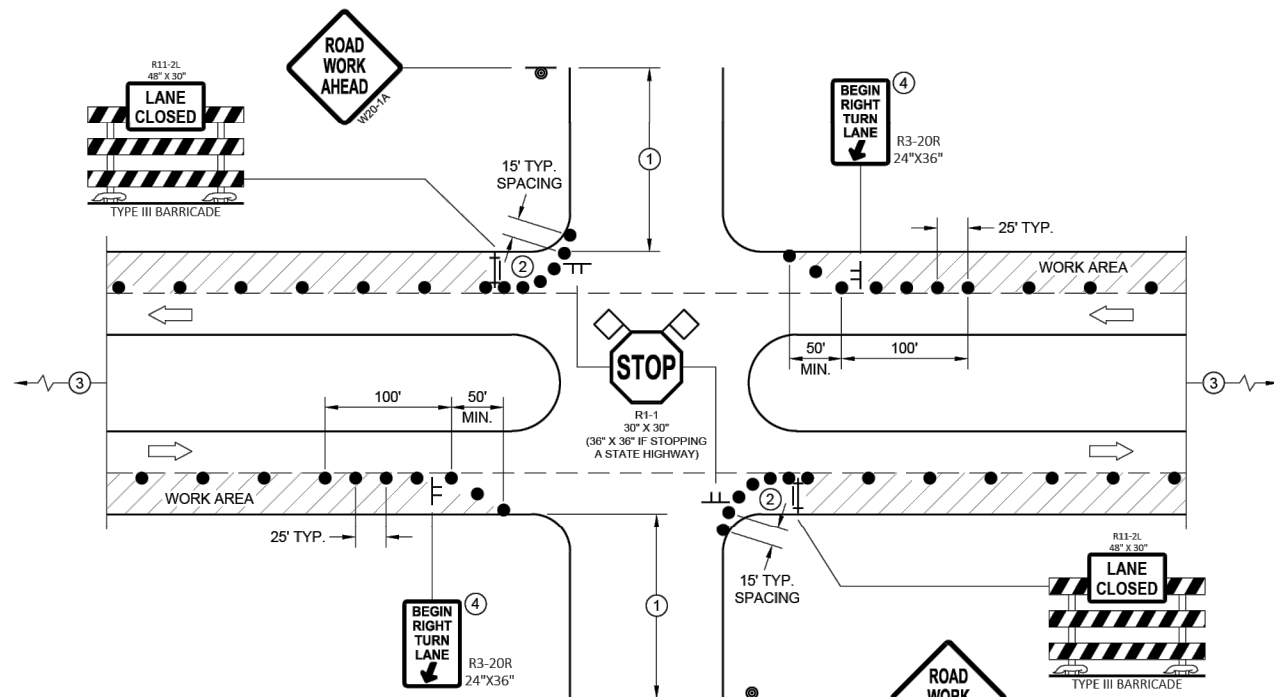
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15D30-12I

SDD 15D30-12I



SDD 15D21-a Traffic Control, Intersection Within Single Right Lane Closure



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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

"WO" SIGN IS THE SAME AS "W" SIGN 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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

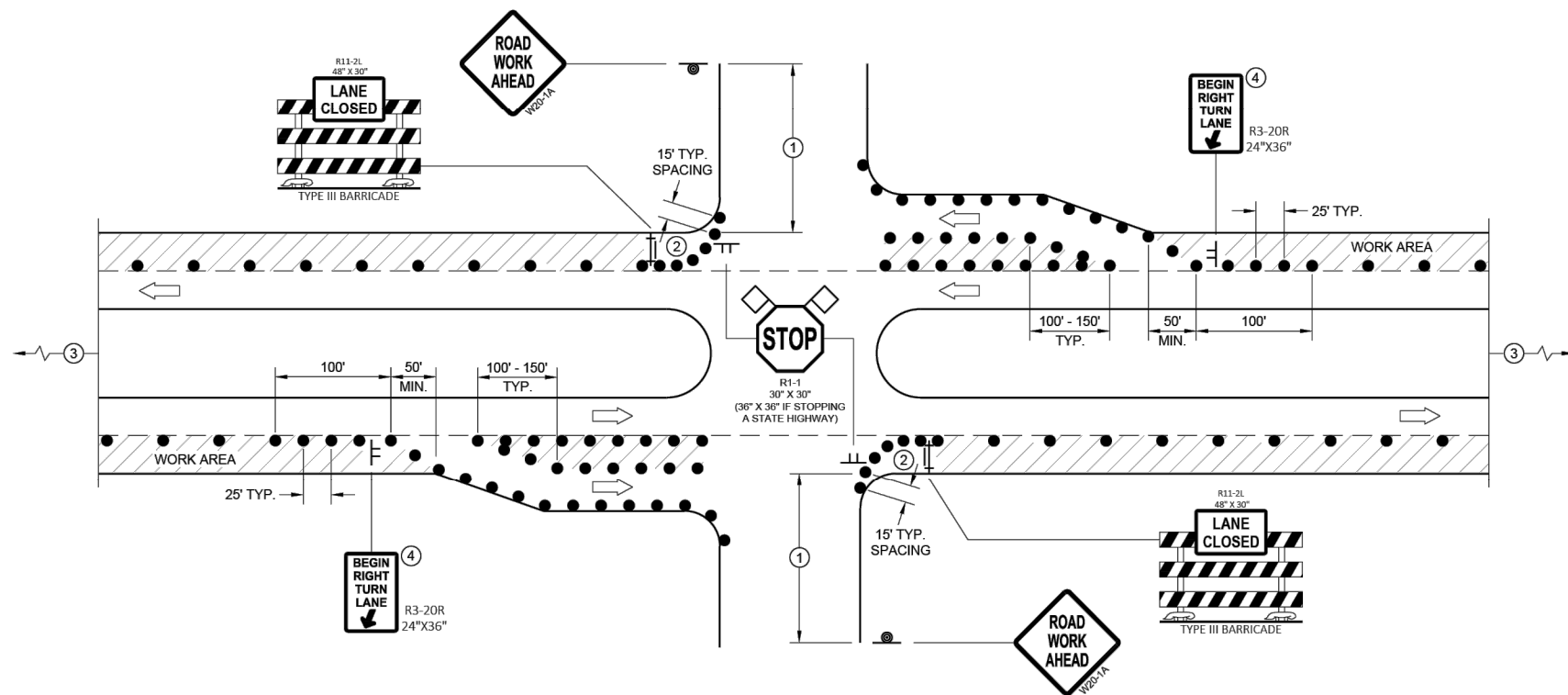
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.
- ② ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS
- ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.
- ④ MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)



TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

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1. PERMITS ARE REQUIRED FOR ALL WORK IN ROWS AND EASEMENTS, UNLESS OTHERWISE SPECIFIED. COPIES OF PERMITS ARE REQUIRED TO BE ON-SITE AND AVAILABLE FOR INSPECTION IMMEDIATELY UPON REQUEST BY THE PERMITTING AUTHORITY OR ITS REPRESENTATIVE.
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3. ANY SIDEWALKS, STREETS, AND ALLEYS THAT WILL NEED TO BE CUT OR REMOVED WILL BE PATCHED OR REPLACED IN ACCORDANCE WITH MUNICIPALITY OR PERMIT AUTHORITY'S SPECIFICATIONS.
4. CONTRACTOR MUST COMPLY WITH CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PER LOCAL OR STATE STATUTES.
5. CONTRACTOR MUST COMPLY WITH LOCAL OR STATE NATURAL RESOURCES DEWATERING CODES FOR ALL DIRECTIONAL BORING APPLICATIONS.
6. CONSTRUCTION CONTRACTOR SHALL COMPLY WITH ALL CURRENT AND APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS GOVERNING THE SAFETY OF EMPLOYEES AND MATERIALS DURING EXCAVATION, TRENCHING, DITCHING, INSTALLATION, BACKFILLING AND AERIAL OPERATIONS ON THIS PROJECT.
7. CONTRACTOR MUST COMPLY AT A MINIMUM WITH DOT WORK ZONE SAFETY PROCEDURES FOR PROPER TEMPORARY TRAFFIC CONTROL. ADDITIONAL REQUIREMENTS MAY BE FURTHER SPECIFIED IN PERMIT MATERIALS FOR EACH MUNICIPALITY OR PERMIT AUTHORITY.
8. CONTRACTOR TO FOLLOW INCLUDED AS-BUILT GUIDELINES, UNLESS OTHERWISE SPECIFIED IN WRITING.

LOCATIONS OF UNDERGROUND STRUCTURES OR FACILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF PREPARATION AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE CONTRACTOR MUST CONTACT ALL UTILITIES AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION OF ALL FACILITIES.
FOR ALL LOCAL UTILITY ONE CALL CENTERS CONTACT:



PRIVATE UTILITIES MAY BE PRESENT. CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING PRIVATE UTILITIES PRIOR TO EXCAVATION.

CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND VERIFYING THE EXACT LOCATION OF ALL UTILITIES WITHIN THE SCOPE OF WORK. COMPLETE REPAIR AND RESTORATION OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONSTRUCTION CONTRACTOR.



414.672.5612
6070 N FLINT RD
GLENDALE, WI 53209

OSP ENGINEER: CORY SCHMUKI
EMERGENCY NOTIFICATION NUMBER: 1-866-831-1661

CONSTRUCTION

2207049
RELO - HWY 100 BRIDGE & ROAD WORK
WAUWATOSA, WI

MUNICIPALITY:	C/ WAUWATOSA
COUNTY:	MILWAUKEE
TOWN RANGE SEC:	T7N R21E SEC8
STATE:	WI
DATE:	4/29/26
DRAWN BY:	TFG-MWFN
DRAWING SCALE:	NTS

REVISIONS			
REV. NO.	DESCRIPTION	BY	DATE

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SDD 15D21 - 07a

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