

WISCONSIN INDEPENDENT NETWORK PROJECT ID # 01-788 PLACE 48 COUNT FIBER TO MAYO CLINIC 212 11TH ST S., LA CROSSE LA CROSSE COUNTY, WISCONSIN

UNIT SUMMARY CONTRACTOR TO COMPLETE

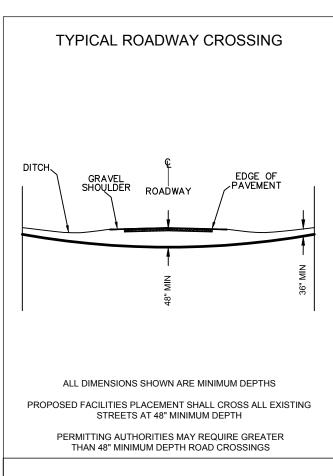
DESCRIPTION DIRECTIONAL BORE TO PLACE (1) 1.25" DUCT REMOVE & REPLACE SIDEWALK (SQUARE FEET) REMOVE & REPLACE ASPHALT (SQUARE FEET) PLACE (1) 24" x 36" x 36" COMPOSITE HAND HOLE WARNING MARKER POST WITH TEST STATION BLOWING CABLE - 48 STRAND PULLING CABLE - 12 STRAND PULLING CABLE - TRACER WIRE BURIED FILLED FIBER OPTIC CLOSURE BURIED FILLED FIBER OPTIC CLOSURE FUSION SPLICE ENTER EXISTING SPLICE HAND HOLE	UNIT BMDB1 UGRC UGRA UH36 BM53 (TS) UFOB(48) UFOP(12) UFOP(TRACER) HBFO(96) HBFO(48) HO1 WUH	QUANTITY 1050' 125 SQ.FT. 4 SQ.FT. 2 2 1155' 450' 200' 1 1 1 18 3	WIN Project Engineer: John Louis Outside Plant Engineer Cell: 715-864-2918 Contract Engineer Shera Purdy Mi-Tech Services Office: (608) 244-4140 Cell: (608) 438-4139
PULL CABLE SLACK WITHIN EXISTING DUCT ABOVE GRADE BUILDING ENTRANCE	WUD BM21	100' 1	Construction Contractor Information
FIBER DISTRIBUTION PANEL	FDP	1	Name: Phone: Foreman: Cell: Address:
AS STAKED	AS BUILT DATE:	SOC C	ODE

GENERAL CONSTRUCTION NOTES

- 1) Wisconsin State Law requires excavators to notify Diggers Hotline a minimum of three (3) business days prior to all excavations (excluding Saturdays, Sundays, and legal Holidays). Hand dig with care within the 18" safety zone when exposing underground utilities. Caution Diggers Hotline does not mark all private lines.
- 2) Underground utilities have been plotted from available records and field observations but are not necessarily exact. It is the contractors responsibility to field locate all underground obstructions and utilities prior to construction. Complete repair of any and all damages incurred shall be at the expense of the construction contractor. Fiber placement subject to change upon field locate completion.
- 3) Coordinate all construction activities with WIN Project Engineer prior to construction.
- 4) Contractor is responsible for any erosion control, which includes submitting erosion plans, related to this project, should it become necessary.
- 5) Construction contractor shall provide all information for as-built drawings, including but not limited to: Fiber sequential's at hand hole walls and end of fiber; Depths of fiber at a minimum of 200' intervals along with centerline of all hard surface crossings, ie: roads, alleys, drives, waterways pipelines, railroads; Actual GPS location of hand holes; Actual running line from right-of-way, back of curb, edge of pavement or other known landmarks shown on sheets; Actual location of warning markers; and any other information required to produce a accurate and permanent record of the project.
- 6) The top of all hand holes set shall match final grade.
- 7) The contractor shall comply with all Wisconsin Independent Network policies and procedures and all requirements from local permitting authorities. The various permits obtained for the project are on file in the office of the Wisconsin Independent Network engineer.
- 8) Miscellaneous structures and obstructions such as sign posts; mail boxes; meter boxes; or other obstructions shall be avoided or removed and reinstalled to original or better condition.
- 9) The contractor shall be responsible, at all times; for the maintenance of streets and other utilities affected by construction operations debris shall not be permitted to accumulate and all premises shall be maintained in a neat and workmanlike condition.
- 10) The contractor shall take adequate precautions to protect existing facilities, sidewalks, curbs, pavements, utilities, foliage, and adjoining property and structures outside of right-of-way; and to avoid damage thereto.

- 11) The following special provisions shall apply to traffic regulation during the extent of this project:
- a. There shall be, at all times, adequate vehicle and pedestrian access for ingress and egress for the properties adjacent to the project.
- b. During non-working hours, the contractor shall keep the existing traffic lanes clear from interference including all approaches and intersections.
- c. If lane blockage is unavoidable, the contractor shall notify the traffic engineering department, police department, fire department, ambulance services, school bus garages, and other agency operations as appropriate so these agencies may re-route their vehicles around the construction zone(s).
- d. Contractor is responsible to adhere to the Wis DOT manual on traffic control along with submitting traffic plans if required by permitting authority.
- 12) If required, trenches in paved areas shall be saw-cut to the full depth of surfacing or as required by the permitting authority. Paved surfaces shall be repaired in accordance with the permitting authority's specifications.
- 13) The contractor shall comply with all current and applicable Occupational Safety and Health Administration (OSHA), federal, state, and local rules and regulations governing the safety of employees and material during excavation, trenching, ditching, and installation and backfilling operations on this project.
- 14) No trench or excavation site shall be left open overnight or unattended.
- 15) Right-of-way restoration and street and sidewalk repair/replacement shall be in compliance with the local permitting authority.
- 16) All fiber cable minimum depth must be 36". 48" minimum depth under roadways and waterways. See typical roadway and waterway crossing details.
- 17) Inner ducts occupied by cable shall be sealed at termination points using rubber plugs and compression bands. Foam sealant will not be used.
- 18) Brushing and trimming as-required. Brush, branches, and refuse from clearing operations shall, without delay, be removed from the vicinity of the right-of-way.
- 19) Construction contractor(s) shall have a copy of the permit(s) on-site and shall be available for inspection immediately upon request by the permitting authority or permitting authority representative.
- 20) No excavation, digging, tunneling, trenching, boring, plowing, installation of facilities, equipment or improvements above, on or beneath the surface of any right-of-way may begin without a signed permit from the governing permitting authority.

TYPICAL DETAIL DRAWINGS



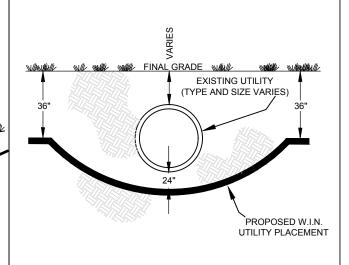
TYPICAL WATERWAY CROSSING

ALL DIMENSIONS SHOWN ARE MINIMUM DEPTHS

PROPOSED FACILITIES PLACEMENT SHALL CROSS ALL WATERWAYS
AT 48" MINIMUM DEPTH FROM BASE OF WATERWAY

PERMITTING AUTHORITIES MAY REQUIRE GREATER
THAN 48" MINIMUM DEPTH

TYPICAL UTILITY CROSSING

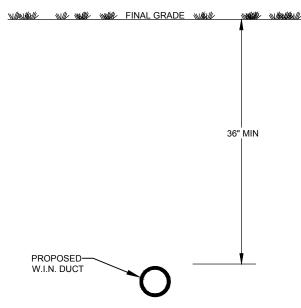


ALL DIMENSIONS SHOWN ARE MINIMUM DISTANCES

PROPOSED FACILITIES PLACEMENT SHALL CROSS ALL EXISTING UTILITIES WITH A 24" MINIMUM VERTICAL AND HORIZONTAL SEPARATION

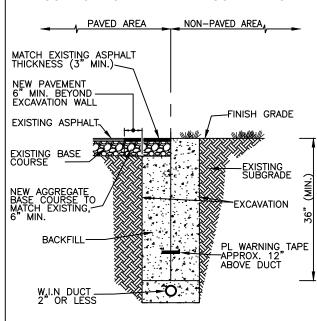
FOREIGN UTILITY OWNERS AND/OR PERMITTING AUTHORITIES MAY REQUIRE GREATER THAN 24" SEPARATIONS

TYPICAL BORE DETAIL



MAINTAIN MINIMUM HORIZONTAL AND VERTICAL SEPARATION
OF EXISTING UTILITIES; REVIEW PERMITTING AUTHORITIES
SPECIFICATIONS AND DETAILS FOR SEPARATION REQUIREMENTS
NOT TO SCALE

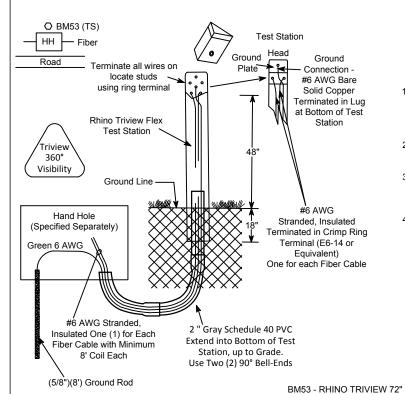
TYPICAL TRENCH DETAIL BMT1 (ONE DUCT - 2" OR LESS) 1 DUCT HORIZONTALLY BY 1 DUCT VERTICALLY



MAINTAIN MINIMUM HORIZONTAL AND VERTICAL SEPARATION
OF EXISTING UTILITIES; REVIEW PERMITTING AUTHORITIES
SPECIFICATIONS AND DETAILS FOR SEPARATION REQUIREMENTS
NOT TO SCALE

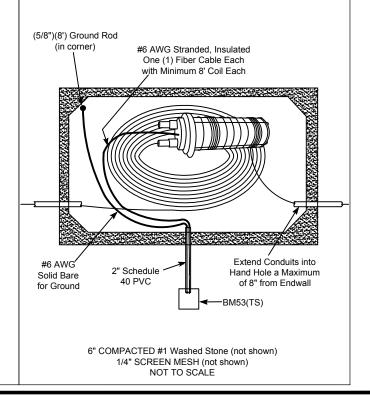
TYPICAL WARNING SIGN MARKER POST

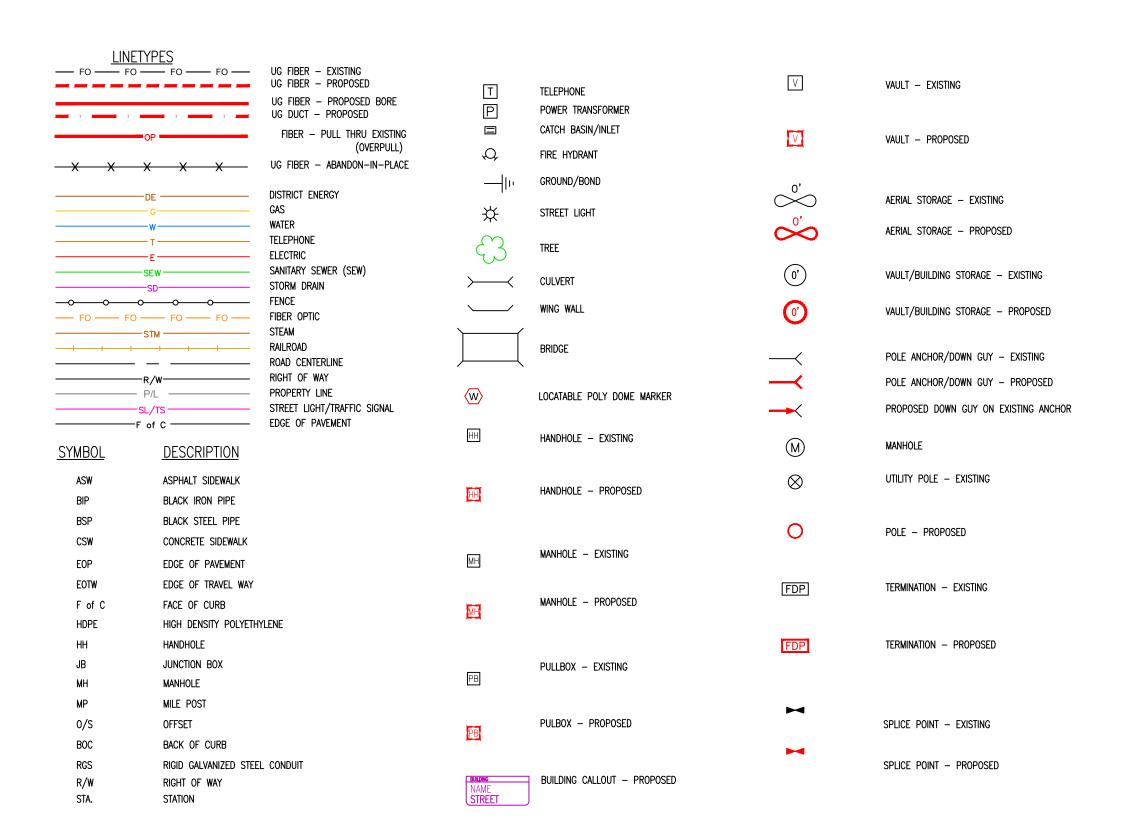
BM53(TS) - RHINO TRIVIEW 84" (TEST STATION POST)



- -- NOTES --
- Cap Colors:
 Black: Warning Post Only
 - White: Hand Hole with Slack - Green: Test Station at Splice Locations
- 2. Test Station to be Installed in Center of Long Side of Hand Hole Away from Roadway
- Contractor Supplied Conduit from Hand Hole to Test Station will be 2" Gray Schedule 40 PVC Extended into Bottom of Test Station Above Grade Level
- 4. Test Station Conductors:
 - Ground Rod to Locate Plate #6 Bare Solid
 - Test Station to Hand Hole for Each Cable #6 Stranded, Insulated
 - #6 Bare Solid Terminated in Lug at Top of Test Station for Ground
 - Stranded #6 to be Terminated in Crimp Ring Terminal T&B E-6-14 or Equivalent

TYPICAL HANDHOLE DETAIL VIEW FROM TOP





SHEET LEGEND



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

T16N / T15N

RANGE:

SECTION:

S32 / S5

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

10TH ST SOUTH



NETWORK

PROJECT ID# 01-788

PROJECT DESCRIPTION: PLACE 48 COUNT FIBER TO MAYO CLINIC 212 11TH ST S., LA CROSSE

ENGINEERING

COMPLETED:

DATE

04/2019

REVISIONS

W.I.N. PROJECT ENGINEER JIM BIRKENHEIER OUTSIDE PLANT ENGINEER 715-838-4007

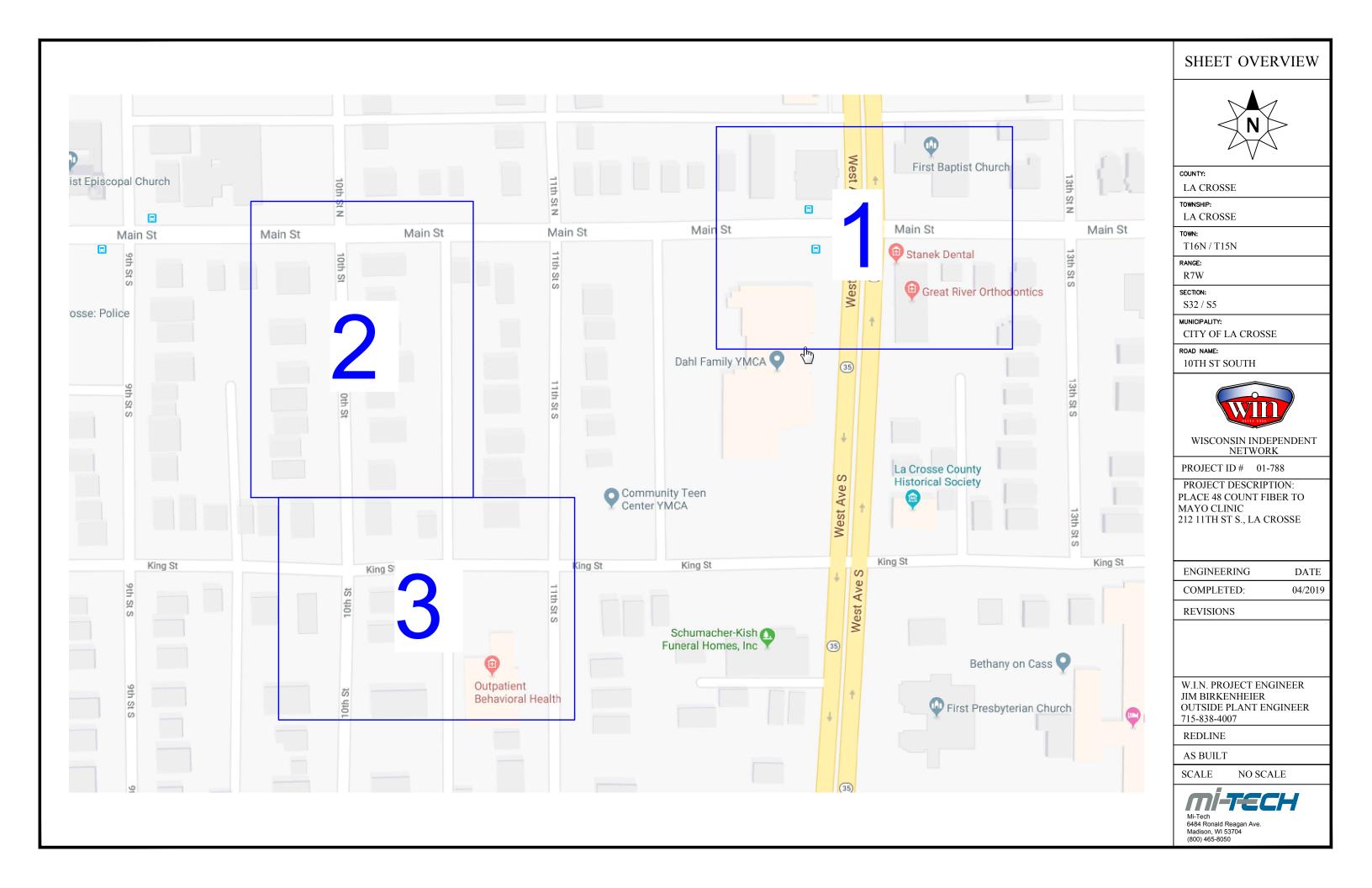
REDLINE

AS BUILT

SCALE NO SCALE

Mi-TECH

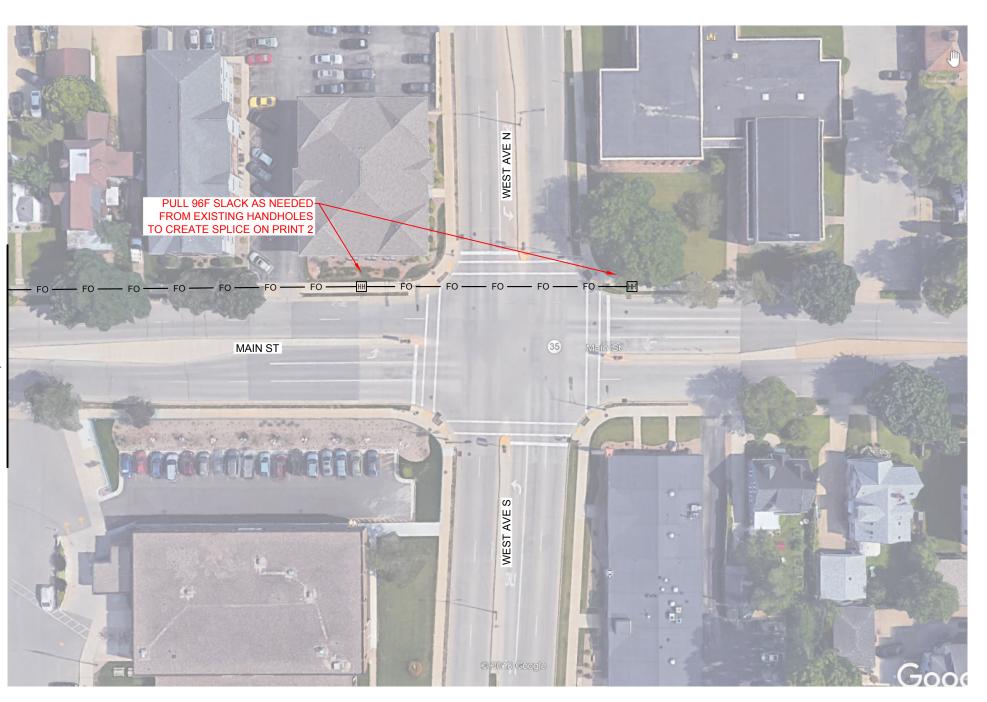
Mi-Tech 6484 Ronald Reagan Ave. Madison, WI 53704 (800) 465-8050



ALL UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR THE EXACT LOCATION OF MUNICIPAL AND PRIVATE UTILITIES; COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. FACILITY PLACEMENT SUBJECT TO CHANGE UPON FIELD LOCATE COMPLETION.

RIGHTS-OF-WAY ARE DEPICTED BASED ON FIELD OBSERVATIONS AND THE LATEST STATE AND COUNTY RECORDS AVAILABLE. IF FURTHER ACCURACY IS REQUIRED; LAND SURVEYS WILL BE NECESSARY.

PERMITS REQUIRED THIS PRINT: NONE





WISCONSIN STATUTE 182.0175 (1974) REQUIRES CONTRACTORS TO NOTIFY DIGGERS HOTLINE A MINIMUM OF THREE BUSINESS DAYS PRIOR TO EXCAVATION AT 811 OR (800) 242-8511 OR (262) 432-7910. EMAIL-A-LOCATE IS AVAILABLE AT: WWW.DIGGERSHOTLINE.COM

SHEET 1

OF 3



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

T16N

RANGE:

SECTION:

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

MAIN ST



WISCONSIN INDEPENDENT NETWORK

PROJECT ID# 01-788

PROJECT DESCRIPTION: PLACE 48 COUNT FIBER TO MAYO CLINIC 212 11TH ST S., LA CROSSE

ENGINEERING DATE

COMPLETED: 04/2019

REVISIONS

W.I.N. PROJECT ENGINEER JOHN LOUIS OUTSIDE PLANT ENGINEER 715-864-2918

REDLINE

AS BUILT

SCALE NO SCALE

MI-TECH

Mi-Tech 6484 Ronald Reagan Ave. Madison, WI 53704 (800) 465-8050

AT MAIN ST & 10TH ST S INTERSECTION - PRINT 2 APPROXIMATELY 1,000' TO INTERSECTION

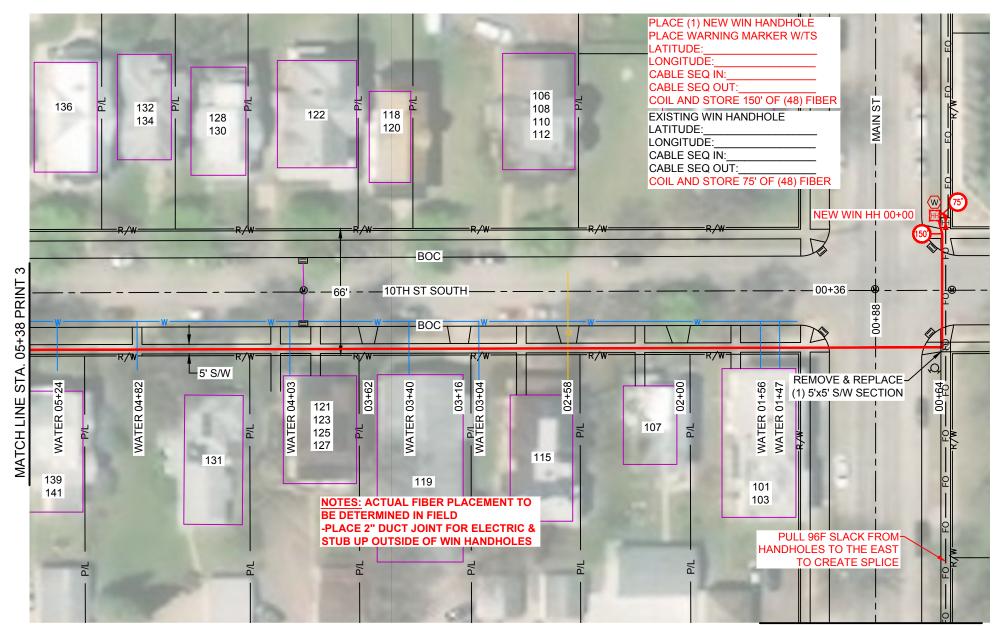
2 SHEET 2 WUD = 100' BMDB1 = 540' UGRC = 25 SQ.FT. UFOB(48) = 765' (COILS 225') UH36 = 1 BM53(TS) = 1**WUH = 1** HBFO(96) = 1HO-1 = 6

NOTES:

ALL UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR THE EXACT LOCATION OF MUNICIPAL AND PRIVATE UTILITIES; COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. FACILITY PLACEMENT SUBJECT TO CHANGE UPON FIELD LOCATE COMPLETION.

RIGHTS-OF-WAY ARE DEPICTED BASED ON FIELD OBSERVATIONS AND THE LATEST STATE AND COUNTY RECORDS AVAILABLE. IF FURTHER ACCURACY IS REQUIRED; LAND SURVEYS WILL BE NECESSARY.

PERMITS REQUIRED THIS PRINT: CITY OF LA CROSSE



AT MAIN ST & WEST AVE S INTERSECTION - PRINT 1 APPROXIMATELY 1,000' TO INTERSECTION



WISCONSIN STATUTE 182.0175 (1974) REQUIRES CONTRACTORS TO NOTIFY DIGGERS HOTLINE A MINIMUM OF THREE BUSINESS DAYS PRIOR TO EXCAVATION AT 811 OR (800) 242-8511 OR (262) 432-7910. EMAIL-A-LOCATE IS AVAILABLE AT: WWW.DIGGERSHOTLINE.COM

SHEET 2 OF 3



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN:

T16N / T15N

RANGE: R7W

SECTION:

S32 / S5

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

10TH ST SOUTH



WISCONSIN INDEPENDENT NETWORK

PROJECT ID# 01-788

PROJECT DESCRIPTION: PLACE 48 COUNT FIBER TO MAYO CLINIC 212 11TH ST S., LA CROSSE

ENGINEERING DATE COMPLETED: 04/2019

REVISIONS

REVISED 5/16/16

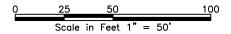
W.I.N. PROJECT ENGINEER JOHN LOUIS OUTSIDE PLANT ENGINEER 715-864-2918

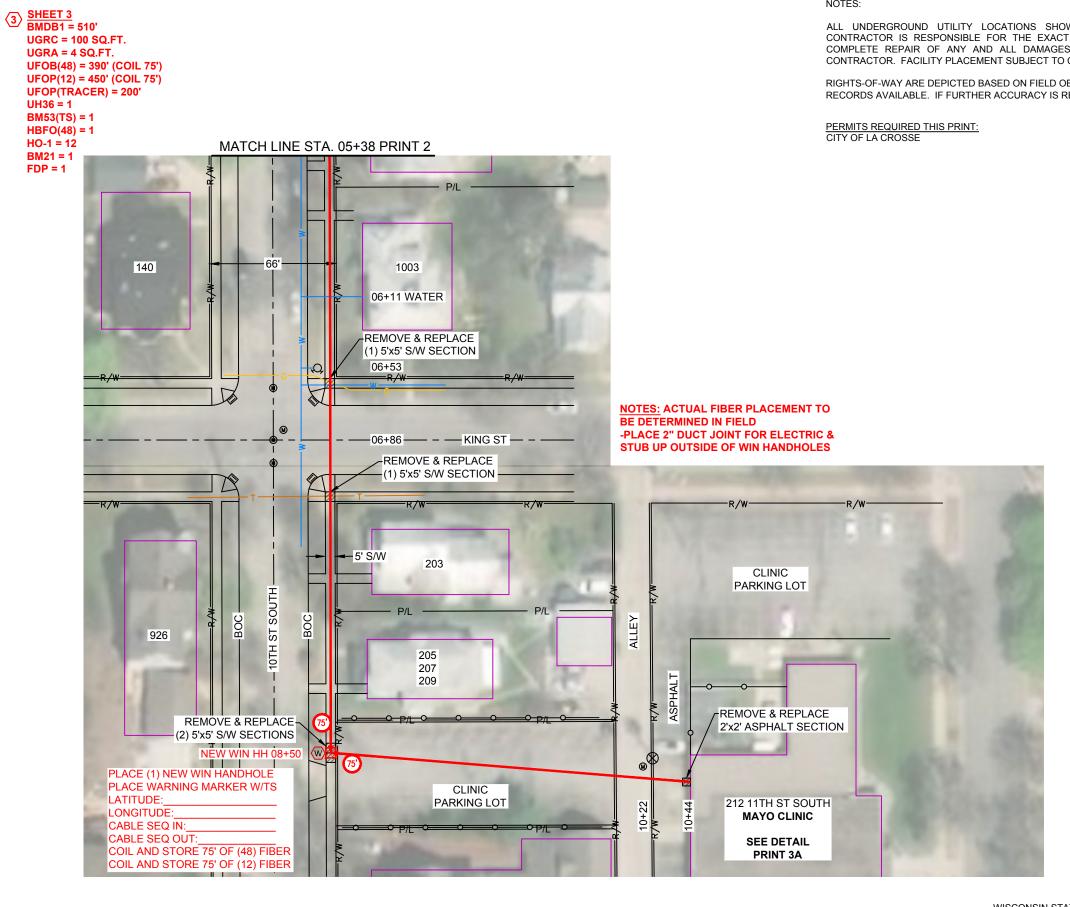
REDLINE

AS BUILT

SCALE 1'' = 50'







Scale in Feet 1" = 50'

NOTES:

ALL UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE. CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR THE EXACT LOCATION OF MUNICIPAL AND PRIVATE UTILITIES; COMPLETE REPAIR OF ANY AND ALL DAMAGES INCURRED SHALL BE AT THE EXPENSE OF THE CONTRACTOR. FACILITY PLACEMENT SUBJECT TO CHANGE UPON FIELD LOCATE COMPLETION.

RIGHTS-OF-WAY ARE DEPICTED BASED ON FIELD OBSERVATIONS AND THE LATEST STATE AND COUNTY RECORDS AVAILABLE. IF FURTHER ACCURACY IS REQUIRED; LAND SURVEYS WILL BE NECESSARY.

SHEET 3 OF 3



COUNTY:

LA CROSSE

TOWNSHIP:

LA CROSSE

TOWN: T15N

RANGE:

R7W

SECTION: S5

MUNICIPALITY:

CITY OF LA CROSSE

ROAD NAME:

10TH ST SOUTH



NETWORK

PROJECT ID# 01-788

PROJECT DESCRIPTION: PLACE 48 COUNT FIBER TO MAYO CLINIC 212 11TH ST S., LA CROSSE

ENGINEERING DATE

COMPLETED: 04/2019

REVISIONS

W.I.N. PROJECT ENGINEER JOHN LOUIS OUTSIDE PLANT ENGINEER 715-864-2918

REDLINE

AS BUILT

SCALE 1'' = 50'

Mi-Tech 6484 Ronald Reagan Ave. Madison, WI 53704 (800) 465-8050

WISCONSIN STATUTE 182.0175 (1974) REQUIRES CONTRACTORS TO NOTIFY DIGGERS HOTLINE A MINIMUM OF THREE BUSINESS DAYS PRIOR TO EXCAVATION AT 811 OR (800) 242-8511 OR (262) 432-7910. EMAIL-A-LOCATE IS AVAILABLE AT: WWW.DIGGERSHOTLINE.COM