

CITY OF MADISON - BARTILLON SHELTER CONNECTION

PROJECT OWNER:
CITY OF MADISON
TALETHA SKAR
210 MARTIN LUTHER KING BLVD RM 500
MADISON, WI 53703

PROJECT ENGINEER:
MULTIMEDIA COMMUNICATIONS & ENGINEERING, INC.
CONTACT: DAN BECKER
FIBER OPTIC NETWORK SPECIALIST
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GREEN BAY, WI 54307
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DESIGNED BY:
MULTIMEDIA COMMUNICATIONS & ENGINEERING, INC.
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OSP DESIGN ENGINEER
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PERMITS REQUIRED:
SHEETS 1-2: CITY OF MADISON RIGHT OF WAY PERMIT
SHEETS 1-10: WISDOT HIGHWAY PERMIT

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Project Location City of Madison, WI



CALL DIGGERS HOTLINE 3 DAYS BEFORE DIGGING:
AT 811 OR (800) 242-8511
EMERGENCY ONLY: (262) 432-7910

ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. UTILITY INFORMATION WAS PROVIDED IN RESPONSE TO PLANNING LOCATE REQUESTS. CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF MUNICIPAL AND PRIVATE UTILITIES; COMPLETE REPAIR OF ANY AND ALL DAMAGES & RESTORATION 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.

DISCLAIMER:
Locations are approximate. This data has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, Multimedia Communications & Engineering, Inc. (MC&E) assumes no responsibility for the accuracy of this data or for any errors or omissions that may have been incorporated into it as a result of incorrect information provided to MC&E. Those relying on this data are advised to obtain independent verification of its accuracy.

Tickets -
20234117371 - ATT01, MATC01, TDM01: No response
20234502190 - ATT01, MATC01, TDM01, GLA01: No response
20234177182 - ATT01, MATC01, TDM01, GLA01, MCI01: No response
20234117326 - ATT01, MATC01, TDM01, GLA01: No response

COORDINATE SYSTEM: HARN/WI.DaneWI-F

Legend

= Telco	= Fiber Ped	= Manhole
= Cable TV	= Electric Ped	= Utility Pole
= Electric	= Telco Ped	= Power Pole
= Gas	= Cable TV Ped	= Power Transformer Pole
= Water	= Traffic Control Box	= Street Light
= Sanitary Sewer	= Electric Transformer	= Pole Anchor
= Storm Sewer	= Gas Valve	= Aerial Fiber
= Private Fiber Optic	= Water Valve	= Overhead Guy
= New Underground Fiber	= Fire Hydrant	= Aerial Expansion Loop
= Existing Underground Fiber	= Catch Basin	= Aerial Splice
= New Handhole	= Round Catch Basin	= Standoff
= Existing Handhole		
= Locate Station		

Typical Install Depth is 36"



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Scale: NTS ANSI B/Tabloid



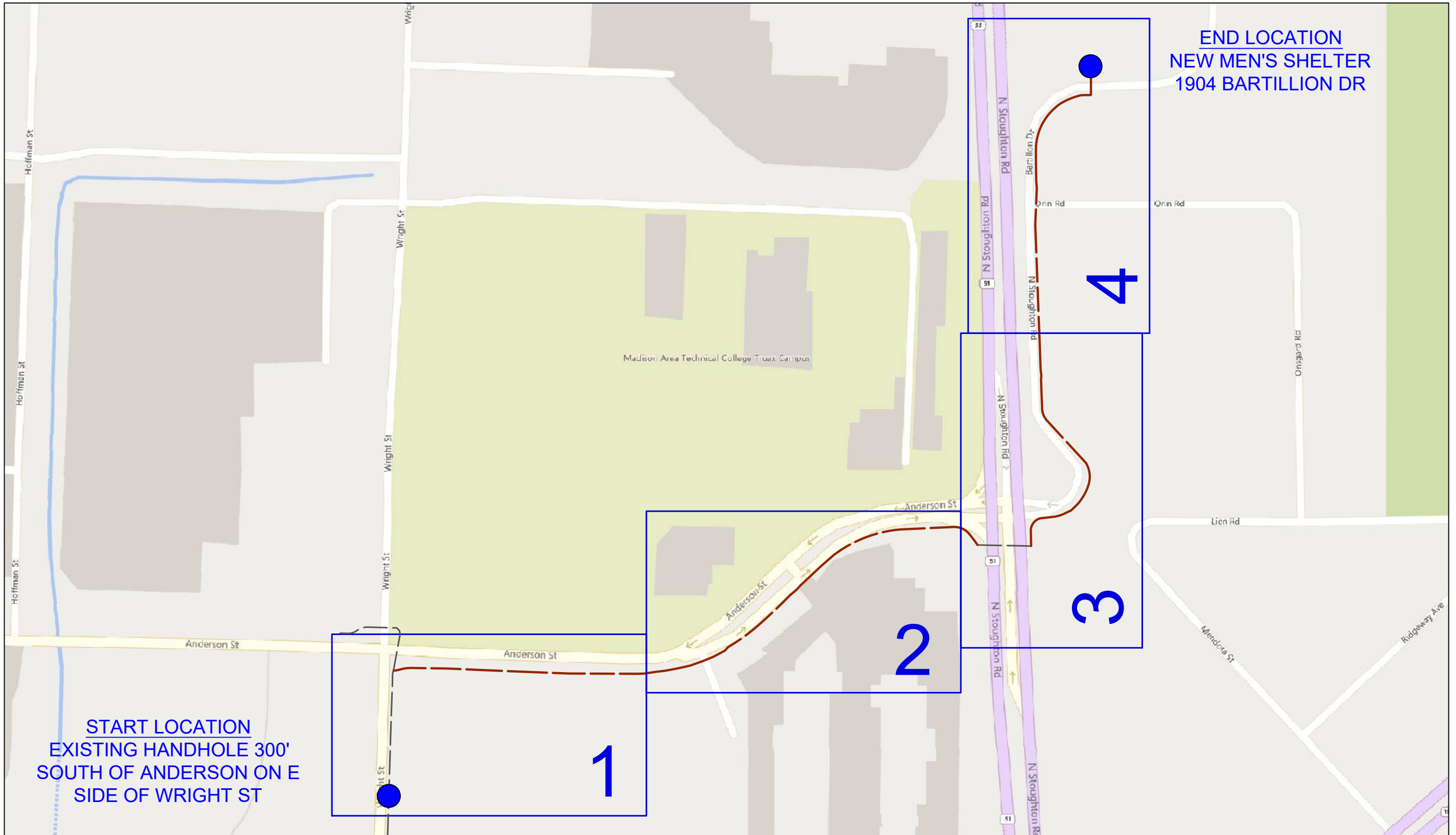
CITY OF MADISON
BARTILLON SHELTER CONNECTION

SHEET GROUP:
COVER SHEET

Print Date: 6.10.2025

SHEET ID:
CS1

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EXCAVATIONS

Excavations shall not remain open in excess of 24 hours unless specific permission is obtained from the City Engineer.

All excavations and trenches shall be covered and/or properly barricaded after working hours and over the weekend.

In all streets, alleys, sidewalks or other public ways, whether improved or unimproved, all excavated material shall be removed and the trench shall be backfilled with flow-able filled slurry mix.

At no time can spoils or other debris be stored or piled in the street gutter.

Excavation stock piling must remain within the public right of way and cannot be placed on or impede any roadways, driveways, sidewalks, or fire hydrants. Any areas that have minimal public right of way available must stock pile the excavated material on a truck bed or trailer. No stock piling of excavated material will be allowed on private property.

Excavations are to remain outside of wetland areas. All excavations must have proper erosion control practices to prevent stock piled materials from entering wetland areas.

Excavations are to remain 75' from the high-water mark of and waterway. Any excavations must have proper erosion control practices to prevent stock piled materials from entering waterways.

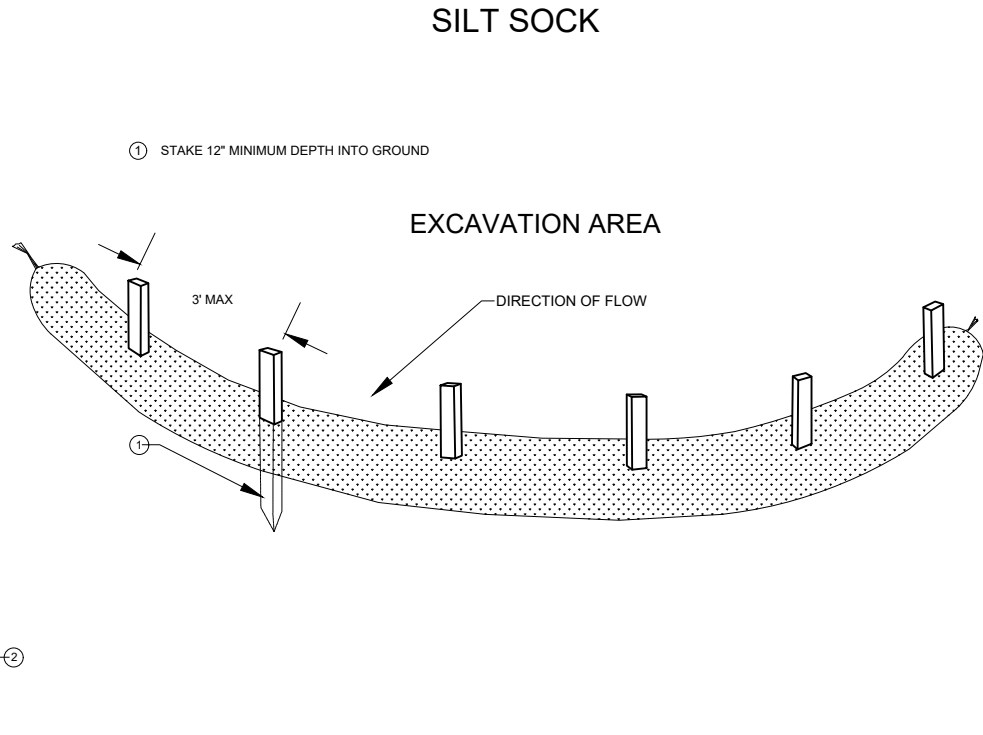
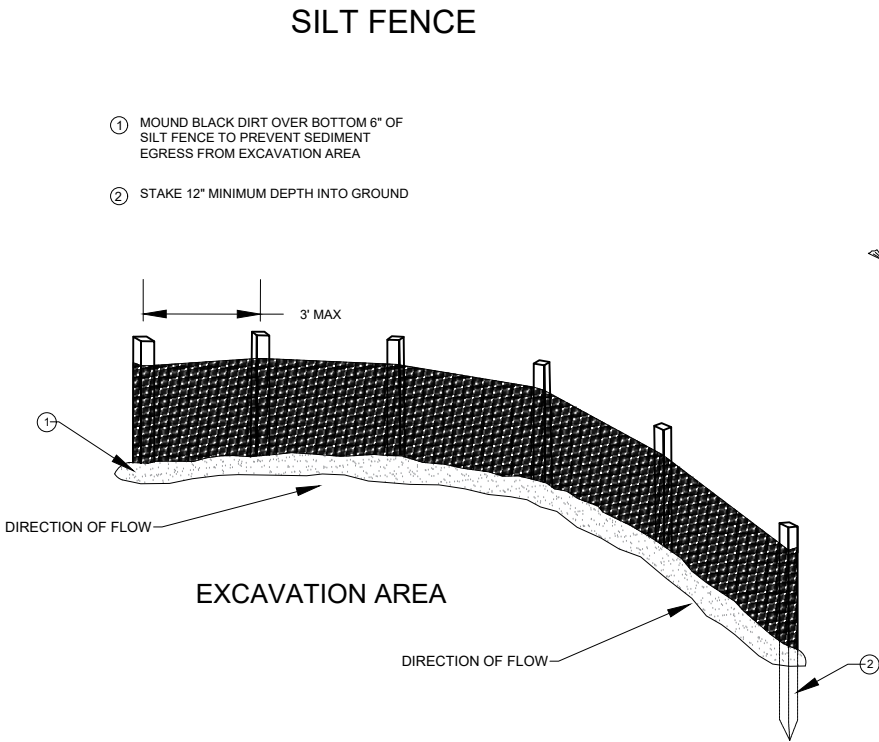
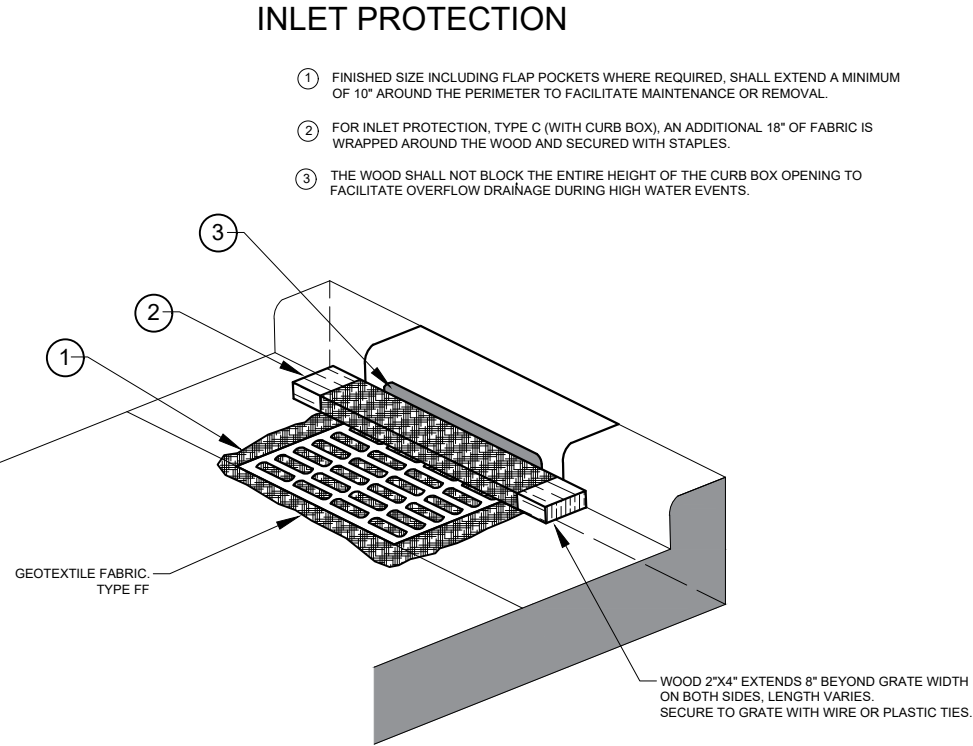
EROSION CONTROL PLAN

Any open excavations, construction areas or standing debris piles that pose the threat debris runoff will require erosion control practices such as placing silt socks, placing hay bales, or placing silt fencing downmill of the area.

The Contractor must employ the following good housekeeping practices that will prevent the ingress of any excavated materials into the Municipal storm water system:

- 1) Cover Storm Sewer Inlet with DOT Filter Fabric (DOT Type FF, not felt or silt fence material) near areas where excavation and directional drilling operations occur. DOT Type C Inlet protection standards apply (2x4 across back of inlet with DOT Filter Fabric over inlet held in place by inlet cover). Type D Inlet Protection including waddles (fiber filled filter socks) around drains to prevent debris from entering the storm sewer system are required at any low area inlets.
- 2) Place Silt Fence Barrier around excavation per below typical specification Diagram. Silt Fence to be inspected prior to excavation.
- 3) Place silt sock Barrier around Spoils to prevent runoff ingress into Storm Water Management System.
- 4) Protect graded restoration area using fibrous matting to prevent erosion into Storm Water Management System
- 5) Place temporary soil stabilization materials to prevent erosion into Storm Water Management System.

All erosion control measures shall be inspected on a weekly basis and/or after ½” or more of rainfall to ensure the effectiveness of the erosion control measures.



DEWATERING

Dewatering of pits, trenches, handholes, or manholes must be done with the use of a sediment bag, a straw bale dewatering basin, or approved equivalent. All dewatering procedures must meet or exceed state standards. All Vacuum Excavation spoils are to be transported and disposed of offsite at an approved dumping station. Dewatering is expected to be negligible given the depth of installation and the nature of the directional boring operations for this project.

FRAC-OUT CONTINGENCY PLAN

Boring activities and bore path are to be continually monitored to observe potential frac-outs. Erosion control materials are to be accessible and onsite should a frac-out occur. Acceptable materials include silt fence, straw bales, and sand bags. As soon as a frac-out is discovered, erosion control must immediately be implemented around the frac-out material (bentonite-water mixture). A vacuum excavation machine is to be accessible on short notice to clean any frac-out material should it occur.

RESTORATION

The Contractor may be allowed to mechanically core through hard surface streets to locate existing utilities provided that the restoration of the core be performed per the specific requirements of the Municipality or Agency having jurisdiction. Core holes must be backfilled with a slurry mixture as specified by the DOT per permitting requirements. The original Concrete or Asphalt core can then be replaced using Plug and Epoxy method.

Potholing is not allowed in ADA compliant or non-compliant pedestrian ramps. Any hard surface excavations within any pedestrian ramp panels will result in the Contractor's replacement of the entire ADA Compliant panel, along with adjacent panels at the Contractor's expense.

At no time can the Contractor perform any excavation that undermines the adjacent in-tact surfaces, thereby making vertical mechanical compaction impossible and creating future potential for subsurface failure. This scenario will result in the replacement of the effected hard-surface to the permitting authority's specifications.

All disturbed lawns, vegetation, flowers, shrubbery, trees, landscaping, etc. must be replaced or restored to its previous condition or better. Lawn repair will require a minimum of 4" of black dirt and municipal approved grass blends are to be applied.

All areas of restoration using Black Dirt and Seed must be protected with biodegradable net-free fibrous matting. Placement of loose straw or other materials that can be easily blown away or otherwise eroded/removed from the restored area will not be permitted. Fibrous matting materials will must be included in the Contractor Cut Sheets and approved by the Owner for use prior to placement.



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CITY OF MADISON
BARTILLON SHELTER CONNECTION

SHEET GROUP:
EROSION CONTROL

SHEET ID:
EC

CONSTRUCTION QUANTITIES

DESCRIPTION OF WORK

THE PURPOSE OF THIS PROJECT IS TO CREATE A CONNECTION BETWEEN AN EXISTING SPLICE POINT 300 FEET SOUTH OF ANDERSON ON E SIDE OF WRIGHT ST AND A NEW MEN'S SHELTER BEING BUILT AT 1904 BARTILLION DR. THE NEW DUCT WILL BE A (1) - 3” DUCT WITH A SINGLE 48 STRAND FIBER OPTIC CABLE.

USE OF QUANTITIES SHOWN

THE FOLLOWING LISTS REPRESENT A HIGH-LEVEL OVERVIEW OF THE PROJECT TASKS ASSOCIATED WITH EACH PORTION OF THE PROJECT AND SHOULD NOT BE SOLELY RELIED ON FOR BIDDING PURPOSES. IT IS THE CONTRACTORS RESPONSIBILITY TO THOROUGHLY REVIEW AND CALCULATE THEIR OWN QUANTITIES AND FOOTAGES IN ORDER TO COMPLETE THIS PROJECT AS OUTLINED IN THIS DOCUMENT. THE BID AMOUNT MUST BE ADEQUATE TO FULFILL THE INTENT OF THE ENTIRE PROJECT.

1) DIRECTIONAL BORE - 3” DUCT -	2,808'
2) PLACE TYPE I 17X30X24 HANDHOLE -	4
3) PLACE TYPE V 24X36X24 HANDHOLE -	1
4) PLACE TYPE VII 30X48X36 HANDHOLE -	3
5) INSTALL 48 STRAND FIBER OPTIC CABLE INSIDE NEW EMPTY 3" DUCT -	2,808'
6) INSTALL EXPANSION LOOP INSIDE HANDHOLES -	1,050'
7) INSTALL #10 STRANDED, JACKETED, COPPER TRACER WIRE INSIDE 3" DUCT -	2,808'
8) INSTALL 1800-POUND MULE TAPE - CARLON TL38203 OR EQUIVALENT INSIDE 3" DUCT -	3,230'
9) INSTALL 48 STRAND FIBER OPTIC CABLE INSIDE EXISTING EMPTY 3" DUCT -	422'
10)INSTALL TYCO C CASE IN HH 4-3 FOR FUTURE SPLICING	1
SPLICE INDIVIDUAL FIBER STRANDS INSIDE OUTDOOR SPLICE CASE -	24 TOTAL - 24 IN ONE CASE

CITY PROVIDED MATERIAL LIST

THE CITY OF MADISON WILL NOT BE PROVIDING ANY MATERIALS FOR THIS PROJECT.

CONTRACTOR PROVIDED MATERIAL LIST

THE CONTRACTOR MUST PURCHASE AND PROVIDE ALL THE FOLLOWING MATERIALS FOR THIS PROJECT:

1. ALL OUTSIDE PLANT FIBER OPTIC CABLES - 48 STRAND SINGLEMODE OS2 GLASS; LOOSE TUBE, SINGLE ARMOR; SINGLE JACKET CONSTRUCTION.
2. UNDERGROUND PLOWDUCT - 3” INSIDE DIAMETER FIRST-RUN SDR-11 HDPE ORANGE SMOOTH EXTERIOR/SMOOTH INTERIOR WITH MULE TAPE. CARLON A16C6N1JNNA (3”), OR EQUIVALENT.
3. TYPE I FLUSH-MOUNT HANDHOLE - COMPOSITE CONCRETE FIBERGLASS CONSTRUCTION 17”X24”X24H” WITH 2 BOLT EXTRA HEAVY DUTY COVER MARKED “FIBER OPTICS”. QUAZITE #PG1730BB24 BASE / #PG1724HH21 (ANSI TIER 22) COVER, OR EQUIVALENT.
4. TYPE V FLUSH-MOUNT HANDHOLE - COMPOSITE CONCRETE FIBERGLASS CONSTRUCTION 24”X36”X24H” WITH 2 BOLT EXTRA HEAVY DUTY COVER MARKED “FIBER OPTICS”. QUAZITE #PG2436BB24 BASE / #PG2436HH21 (ANSI TIER 22) COVER, OR EQUIVALENT
5. TYPE VII FLUSH-MOUNT HANDHOLE - COMPOSITE CONCRETE FIBERGLASS CONSTRUCTION 30”X48”X36H” WITH 2 BOLT EXTRA HEAVY DUTY COVER MARKED “FIBER OPTICS”. QUAZITE #PG3048BB36 BASE / #PG3048HH21 (ANSI TIER 22) 2-PIECE COVER, OR EQUIVALENT.
6. SPLICE CASE FOR HH 4-3 - COMMSCOPE FOSC-450-C6-6-NT-0-C6V
7. 1800-POUND MULE TAPE - CARLON TL38203 OR EQUIVALENT.
8. LOCATE WIRE - #10 AWG UL TYPE USE 2/RHH/RHW-2. NON-MANUFACTURER SPECIFIC.
9. SPLIT DUCT PLUG - 3” OUTSIDE DIAMETER SPLIT PLUGS WITH INTERIOR PORT DIAMETER SUFFICIENT FOR CABLE SIZE. CARLON OR EQUIVALENT.
10. FUSION SPLICE SLEEVES - CLEAR HEAT SHRINK FUSION SPLICE SLEEVE WITH STEEL REINFORCING ROD. NON-MANUFACTURER SPECIFIC.
11. FIBER OPTIC CABLE LABELS - LABELLED WITH OWNER - STRAND COUNT - START POINT - END POINT.
12. CONSUMABLES AND INSTALLATION HARDWARE - CONTRACTOR REQUIRED CONSUMABLES FOR THE INSTALLATION OF ALL THE ABOVE ITEMS PER THESE REQUEST FOR BID DOCUMENTS.
13. BIODEGRADABLE NET-FREE MATTING DESIGNED FOR SHORT TERM USE SIMILAR TO THE AMERICAN EXCELSIOR COMPANY'S CURLEX ® CL BLANKET.

CONTRACTOR COMPLETION CLAUSE

THE CONTRACTOR IS REQUIRED TO COMPLETE THE INSTALLATION WITH THE MATERIAL INCLUDED IN THEIR BID RESPONSE.



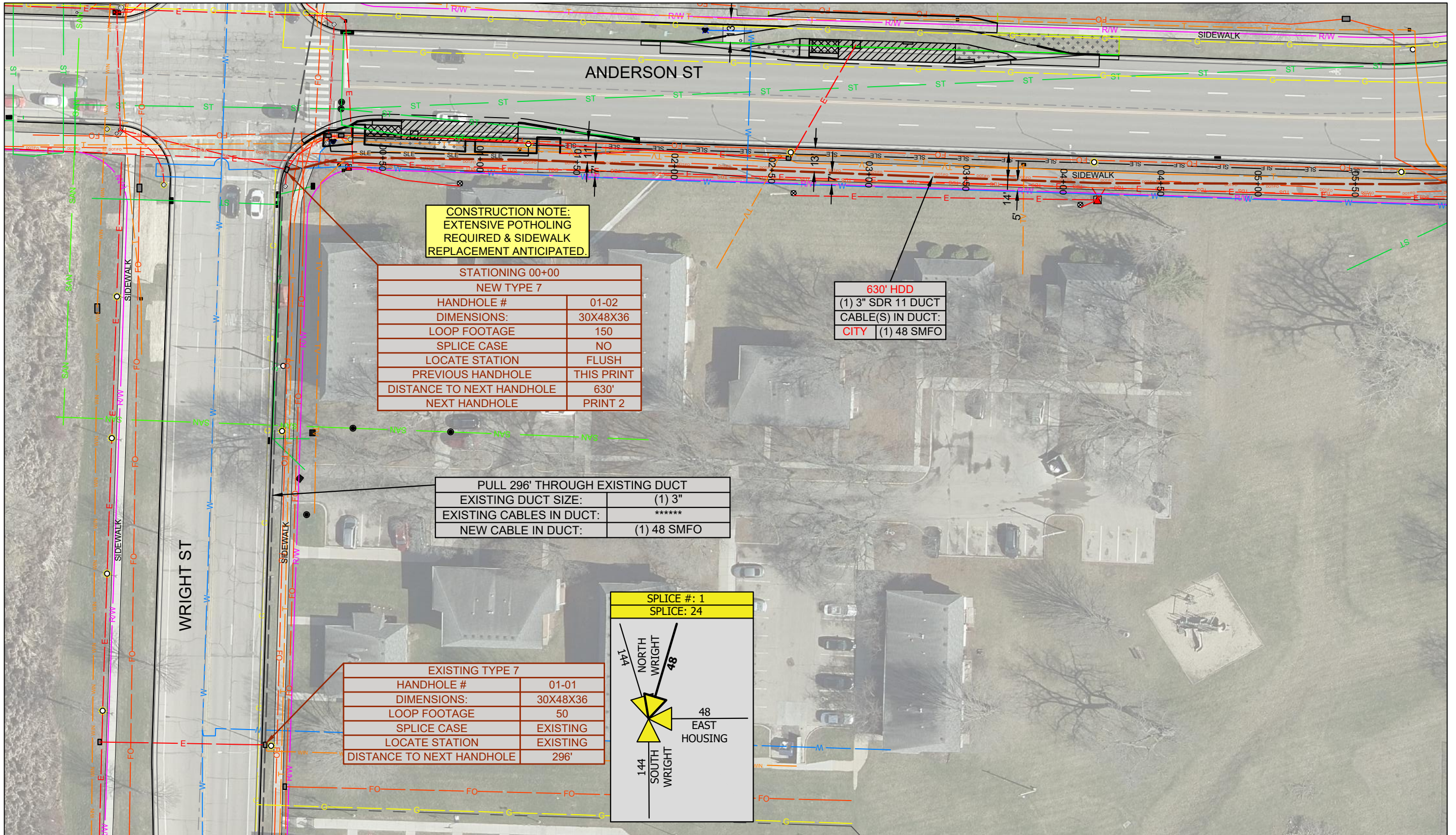
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CITY OF MADISON
BARTILLON SHELTER CONNECTION

SHEET GROUP:
PLACEMENT DETAILS

SHEET ID:
P1



SEE SHEET 2

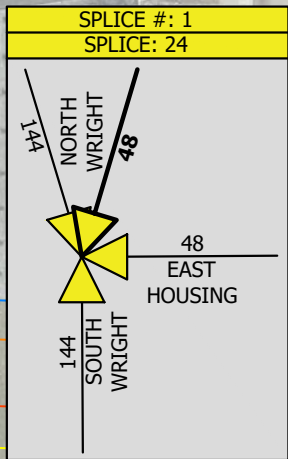
CONSTRUCTION NOTE:
EXTENSIVE POTHOLING
REQUIRED & SIDEWALK
REPLACEMENT ANTICIPATED.

STATIONING 00+00 NEW TYPE 7	
HANDHOLE #	01-02
DIMENSIONS:	30X48X36
LOOP FOOTAGE	150
SPLICE CASE	NO
LOCATE STATION	FLUSH
PREVIOUS HANDHOLE	THIS PRINT
DISTANCE TO NEXT HANDHOLE	630'
NEXT HANDHOLE	PRINT 2

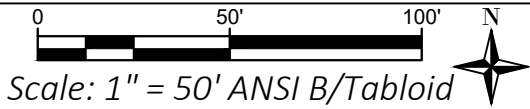
630' HDD
(1) 3" SDR 11 DUCT
CABLE(S) IN DUCT:
CITY (1) 48 SMFO

PULL 296' THROUGH EXISTING DUCT	
EXISTING DUCT SIZE:	(1) 3"
EXISTING CABLES IN DUCT:	*****
NEW CABLE IN DUCT:	(1) 48 SMFO

EXISTING TYPE 7	
HANDHOLE #	01-01
DIMENSIONS:	30X48X36
LOOP FOOTAGE	50
SPLICE CASE	EXISTING
LOCATE STATION	EXISTING
DISTANCE TO NEXT HANDHOLE	296'



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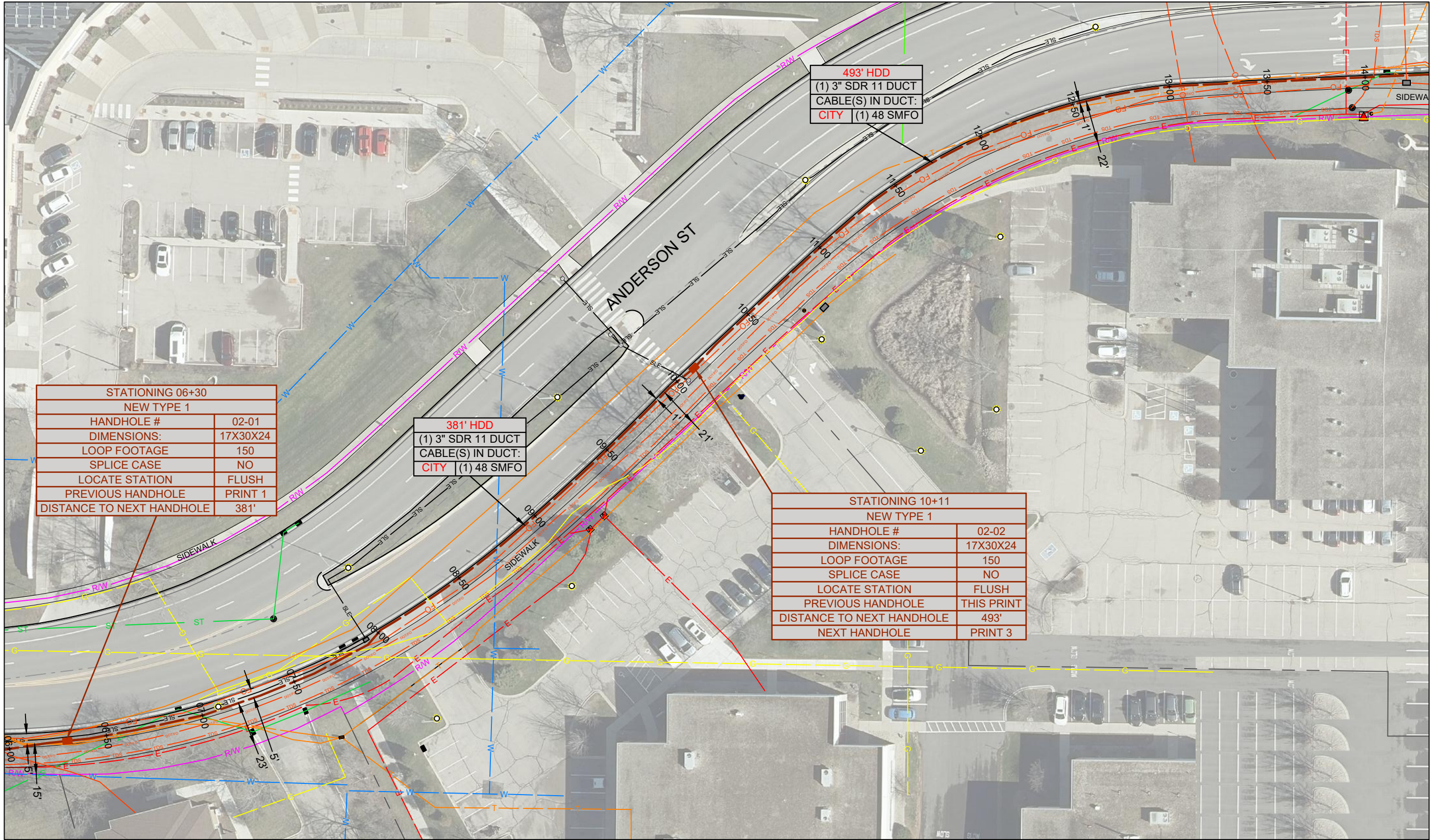
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1:50 Scaled Plans

SHEET ID:
01

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Print Date: 6.10.2025

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SEE SHEET 3

SEE SHEET 1

STATIONING 06+30	
NEW TYPE 1	
HANDHOLE #	02-01
DIMENSIONS:	17X30X24
LOOP FOOTAGE	150
SPLICE CASE	NO
LOCATE STATION	FLUSH
PREVIOUS HANDHOLE	PRINT 1
DISTANCE TO NEXT HANDHOLE	381'

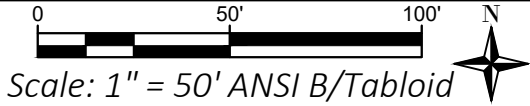
381' HDD
(1) 3" SDR 11 DUCT
CABLE(S) IN DUCT:
CITY (1) 48 SMFO

STATIONING 10+11	
NEW TYPE 1	
HANDHOLE #	02-02
DIMENSIONS:	17X30X24
LOOP FOOTAGE	150
SPLICE CASE	NO
LOCATE STATION	FLUSH
PREVIOUS HANDHOLE	THIS PRINT
DISTANCE TO NEXT HANDHOLE	493'
NEXT HANDHOLE	PRINT 3

493' HDD
(1) 3" SDR 11 DUCT
CABLE(S) IN DUCT:
CITY (1) 48 SMFO



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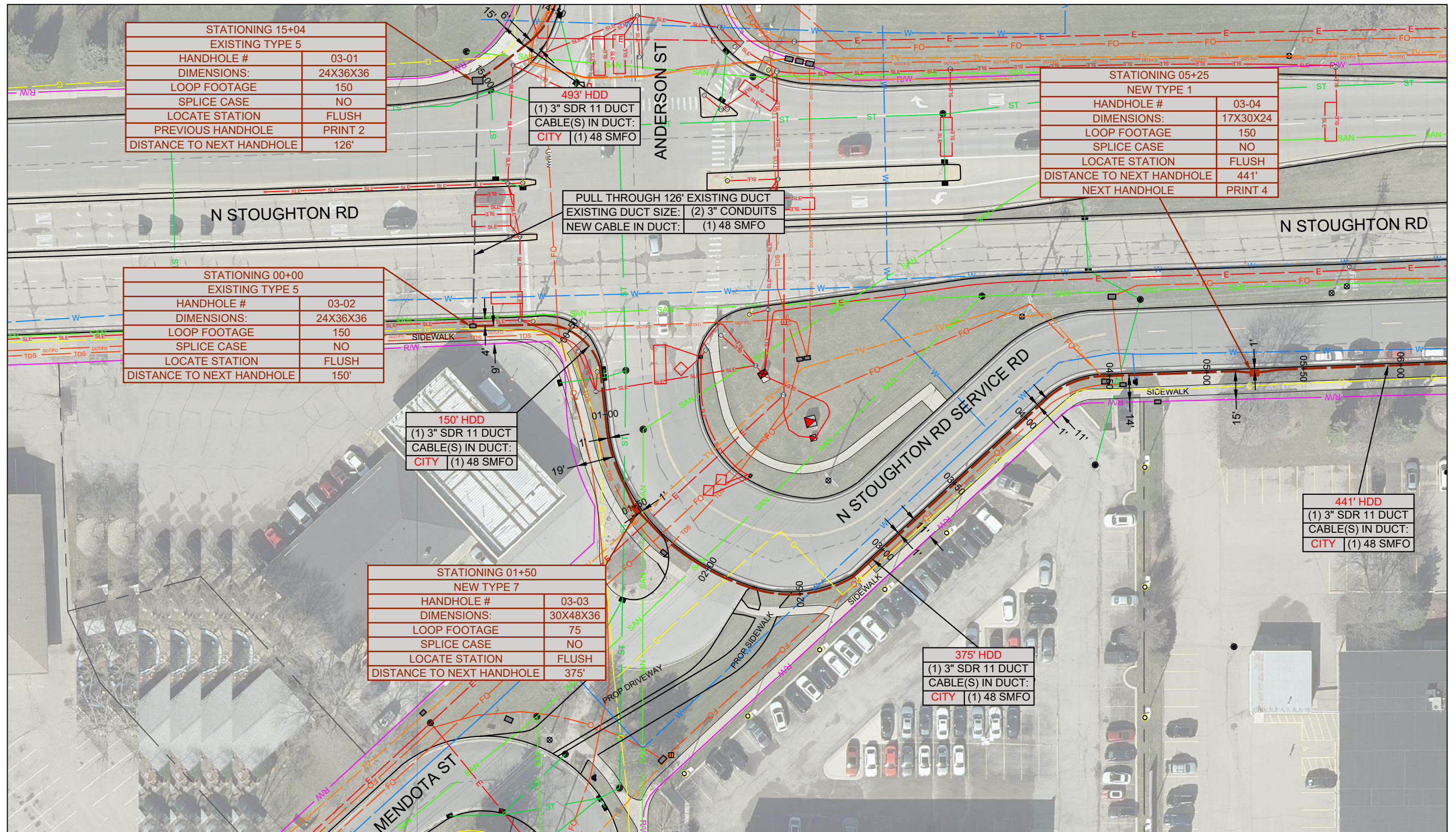
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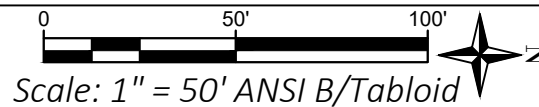
SEE SHEET 2



SEE SHEET 4



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CITY OF MADISON
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SHEET GROUP:
1:50 Scaled Plans

SHEET ID:
03

Print Date: 6.10.2025

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PERMITS REQUIRED ON THIS SHEET: CITY OF MADISON RIGHT OF WAY PERMIT/ WISDOT HIGHWAY PERMIT

