



FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO THE BEGINNING OF EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED.

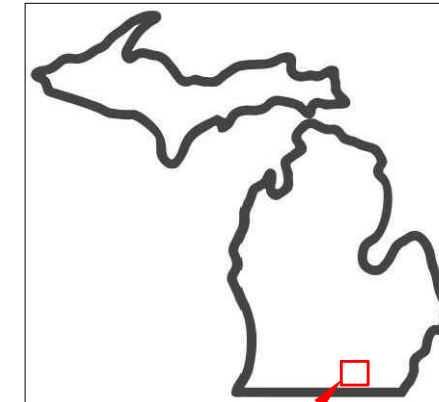
REFERENCES TO SPECIFICATIONS: THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE PROJECT DRAWINGS, NOTES, AND THE APPLICABLE SECTIONS OF THE 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE MICHIGAN MANUAL OF TRAFFIC CONTROL DEVICES

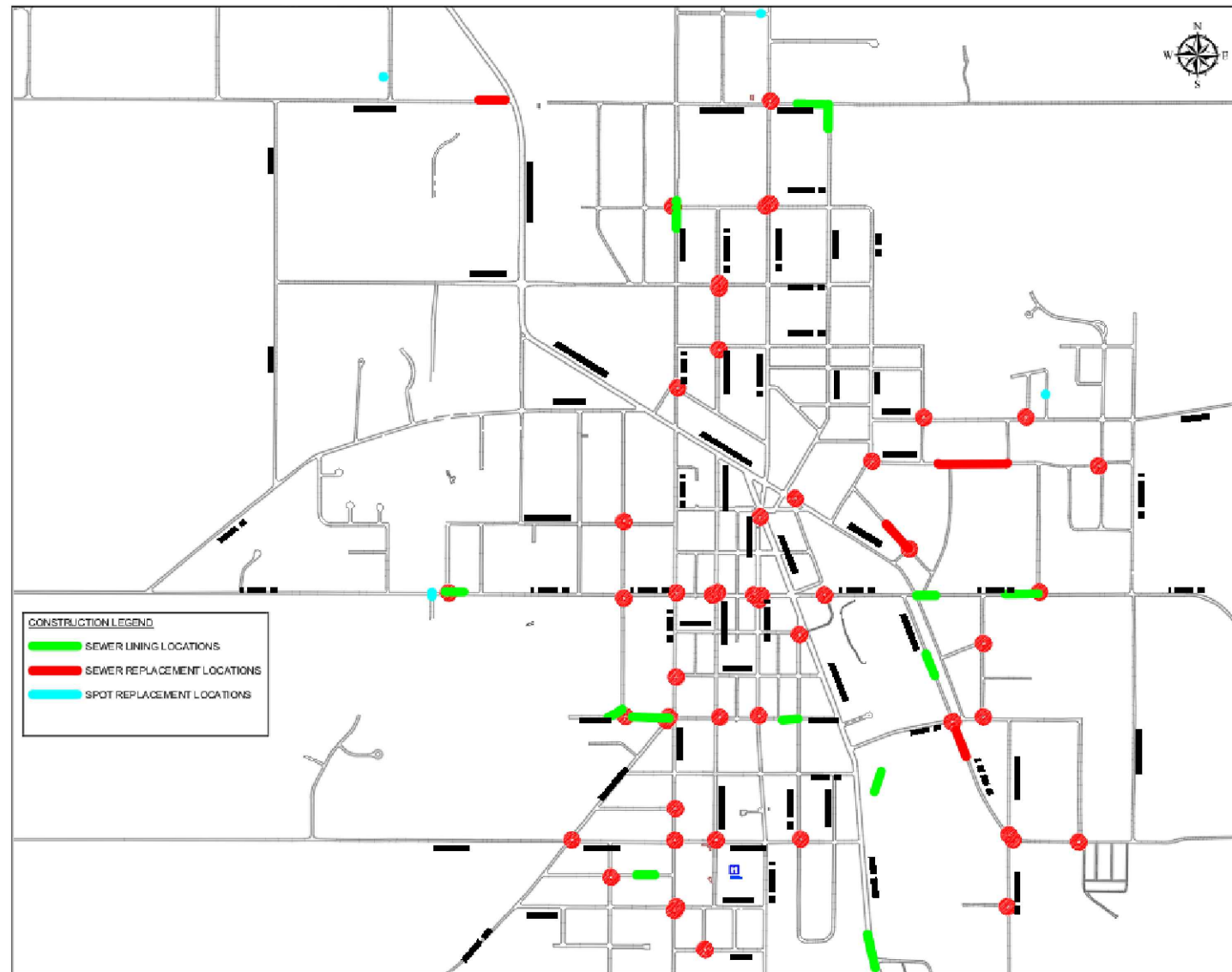
CITY OF HILLSDALE

WATER VALVE & SANITARY SEWER MAIN IMPROVEMENTS

A COMMUNITY DEVELOPMENT BLOCK GRANT WATER-RELATED INFRASTRUCTURE GRANT PROJECT



SITE LOCATION

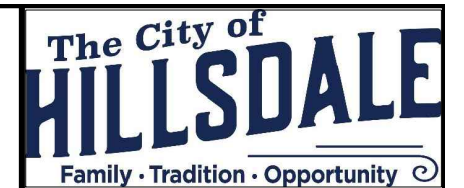


CONSTRUCTION LEGEND

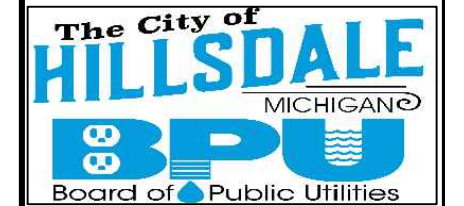
- SEWER LINING LOCATIONS
- SEWER REPLACEMENT LOCATIONS
- SPOT REPLACEMENT LOCATIONS

AREA MAP
NOT TO SCALE

SHEET NO.	DESCRIPTION
CS	COVER SHEET
WL	WATER VALVE WORK LOCATIONS
W1	WATER VALVES
W2	WATER VALVES
W3	WATER VALVES
W4	WATER VALVES
W5	WATER VALVES
W6	WATER VALVES
W7	WATER VALVES
W8	WATER VALVES
W9	WATER VALVES
W10	WATER VALVES
W11	WATER VALVES
W12	WATER VALVES
W13	WATER VALVES
W14	W. ST. JOE WATER MAIN WORK
W15	WATER DETAILS TYPICAL
W16	WATER TRAFFIC CONTROL TYPICALS
SAN L	SEWER WORK LOCATIONS
SAN 1	WILLOW ST. SEWER REPLACEMENT
SAN 2	W. ST. JOE SEWER REPLACEMENT
SAN 3	MECHANIC ST. SEWER REPLACEMENT
SAN 4	MARION ST. FORCE MAIN PLAN & PROFILE
SAN 5	MARION ST. FORCE MAIN PLAN & PROFILE
SAN 6	SPOT REPLACEMENT LOCATIONS
SAN 7	SPOT REPLACEMENTS & LINING LOCATIONS
SAN 8	LINING LOCATIONS
SAN 9	LINING LOCATIONS
SAN 10	LINING LOCATIONS
SAN 11	SANITARY SEWER TYPICAL DETAILS
SAN 12	WILLOW & W. ST. JOE TRAFFIC CONTROL
SAN 13	MECHANIC TRAFFIC CONTROL
SAN 14	MARION TRAFFIC CONTROL
SAN 15	SPOT REP./LINING TRAFFIC CONTROL
SAN 16	MDOT TYPICAL TRAFFIC CONTROL
LS 1	LIFT STATION - SITE PLAN
LS 2	LIFT STATION - PLANS & SECTIONS
LS 3	LIFT STATION - CIVIL DETAILS
LS 4	LIFT STATION - ELECTRICAL LEGEND
LS 5	LIFT STATION - ELECTRICAL NOTES & DETAILS
LS 6	LIFT STATION - ELECTRICAL SITE PLAN
LS 7	LIFT STATION - ONE-LINE & SCHEMATICS
LS 8	LIFT STATION - P&ID & PANEL POWER
LS 9	LIFT STATION - I/O LAYOUT
LS 10	LIFT STATION - ELECTRICAL DETAILS



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	02/10/23
ISSUED FOR RE-BID	03/17/23

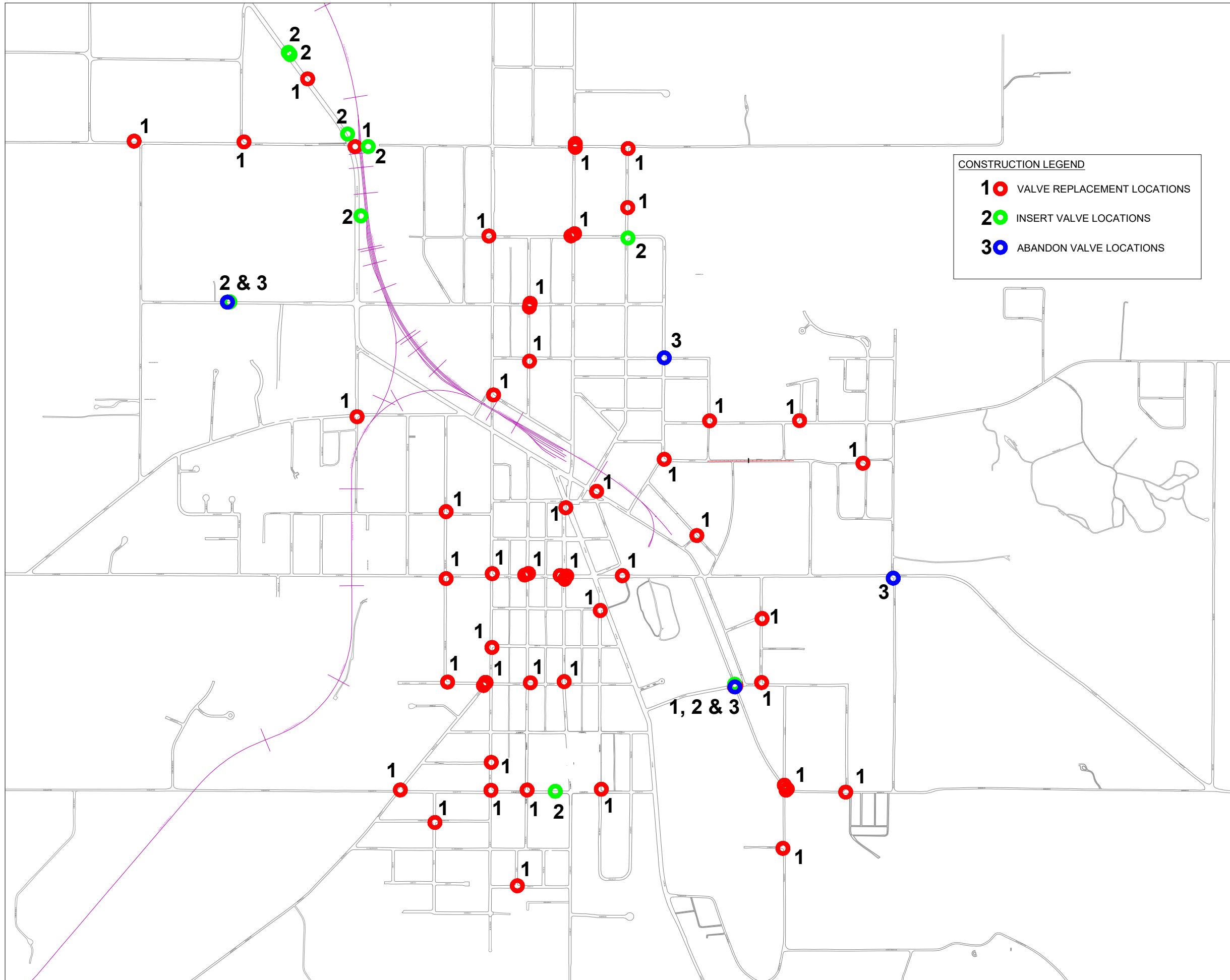
CITY OF HILLSDALE
 HILLSDALE, MI
 MORRY STREET
 WATER MAIN IMPROVEMENTS
 COVER SHEET

SCALE
NTS

	NAME	DATE
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO.

CS



CONSTRUCTION LEGEND

- 1** ● VALVE REPLACEMENT LOCATIONS
- 2** ● INSERT VALVE LOCATIONS
- 3** ● ABANDON VALVE LOCATIONS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

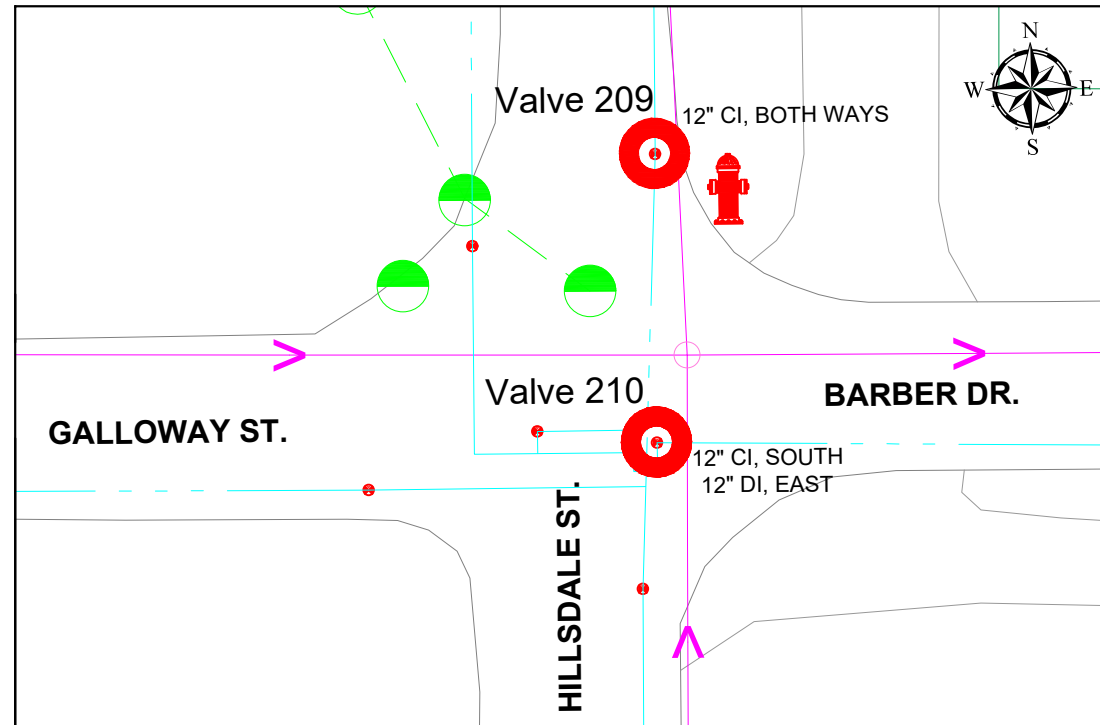
**CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
WATER MAIN IMPROVEMENTS
WATER VALVE WORK LOCATIONS**

SCALE
NTS

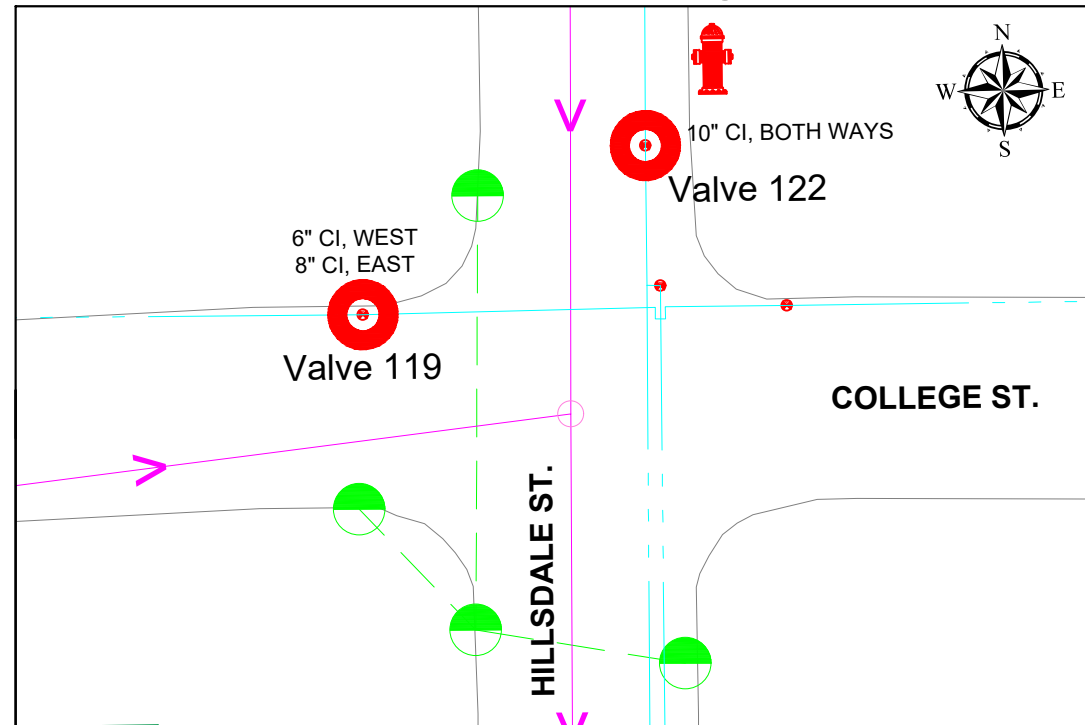
	NAME	DATE
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO.
WL

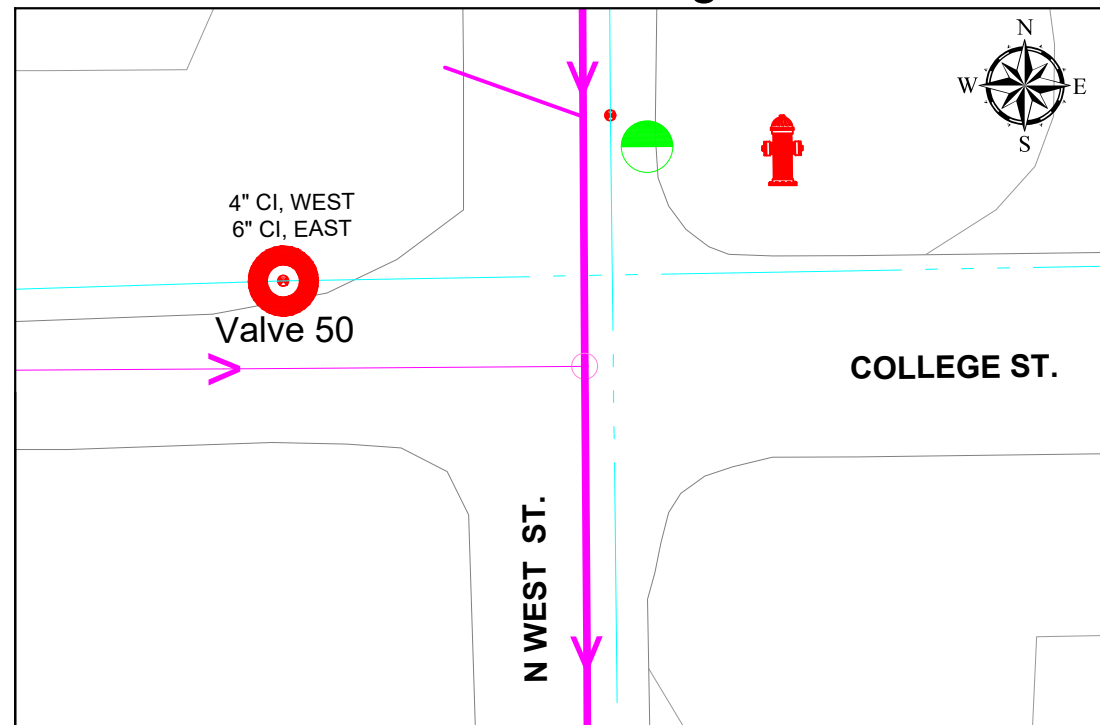
Hillsdale / Barber



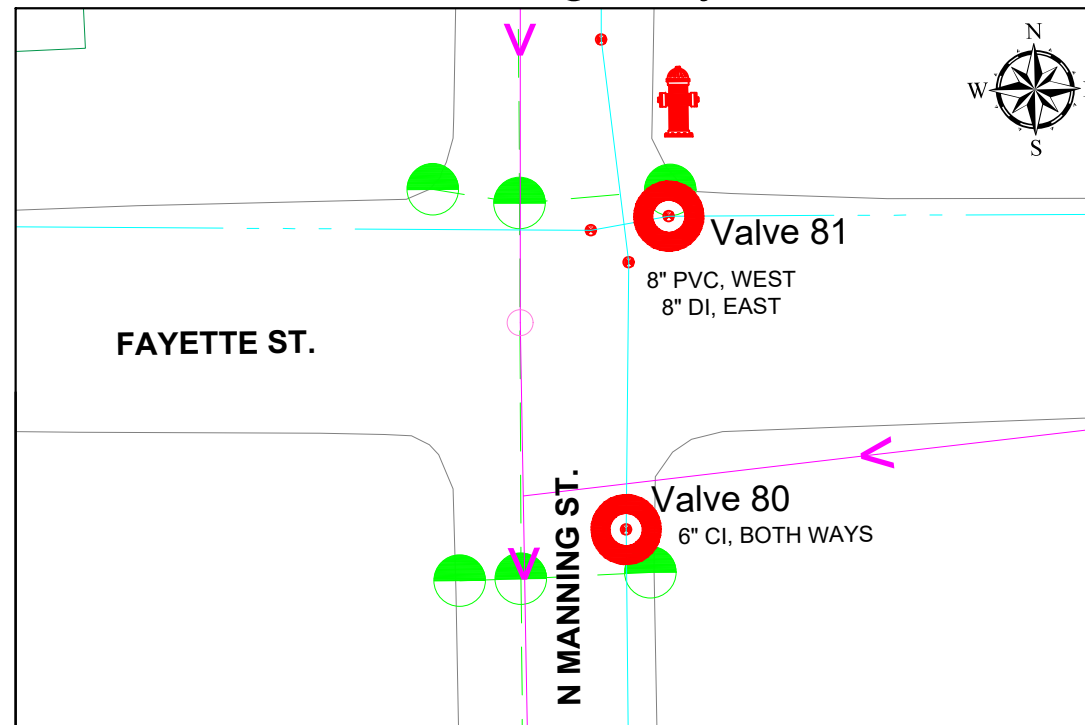
Hillsdale / College



N West / College



N Manning / Fayette

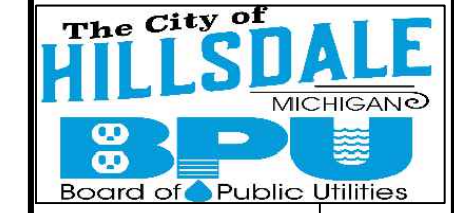


KEY	
SANITARY	→
WATER	---
STORM	- - -
VALVE REPLACEMENT LOCATION	●
VALVE INSERT LOCATION	○
VALVE ABANDON LOCATION	○

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

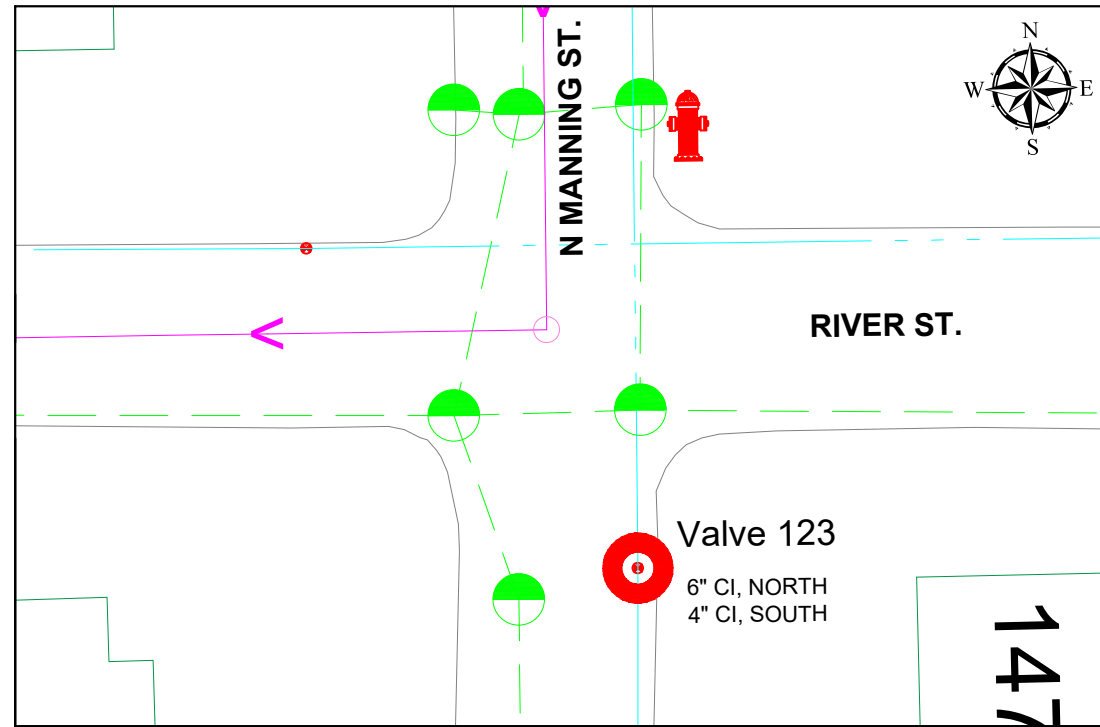
CITY OF HILLSDALE
 HILLSDALE, MI
CITY WIDE
WATER VALVE REPLACEMENTS
 VALVES 50, 80, 81, 119, 122, 209, 210

DRAWING SCALE:
NOT TO SCALE

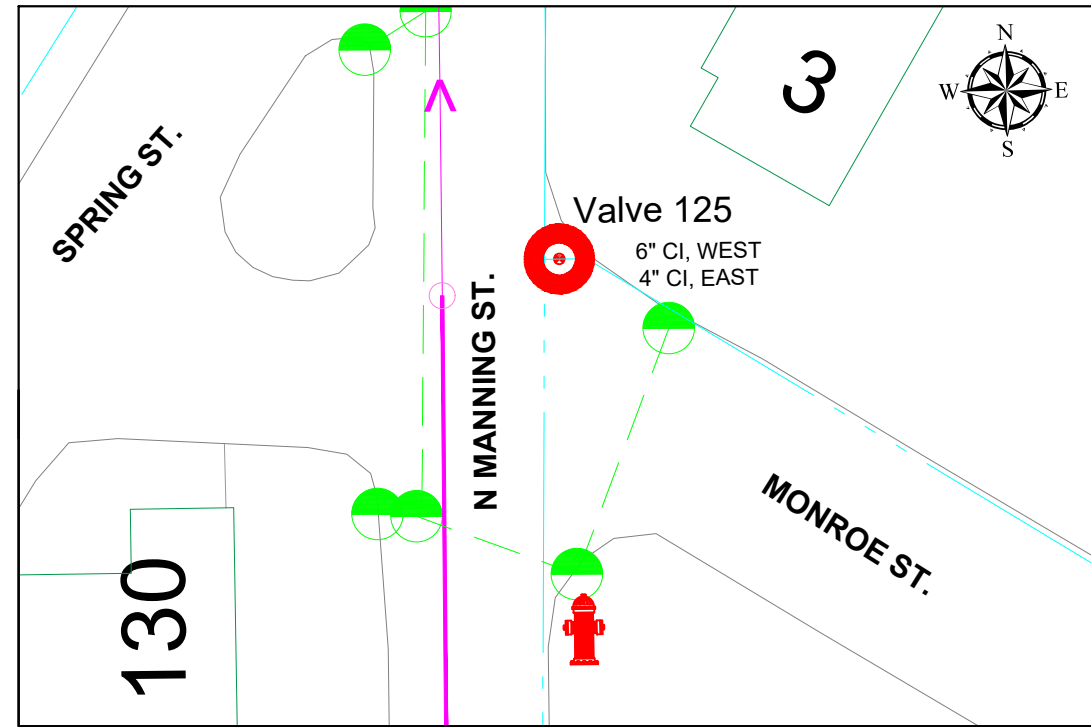
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W1**

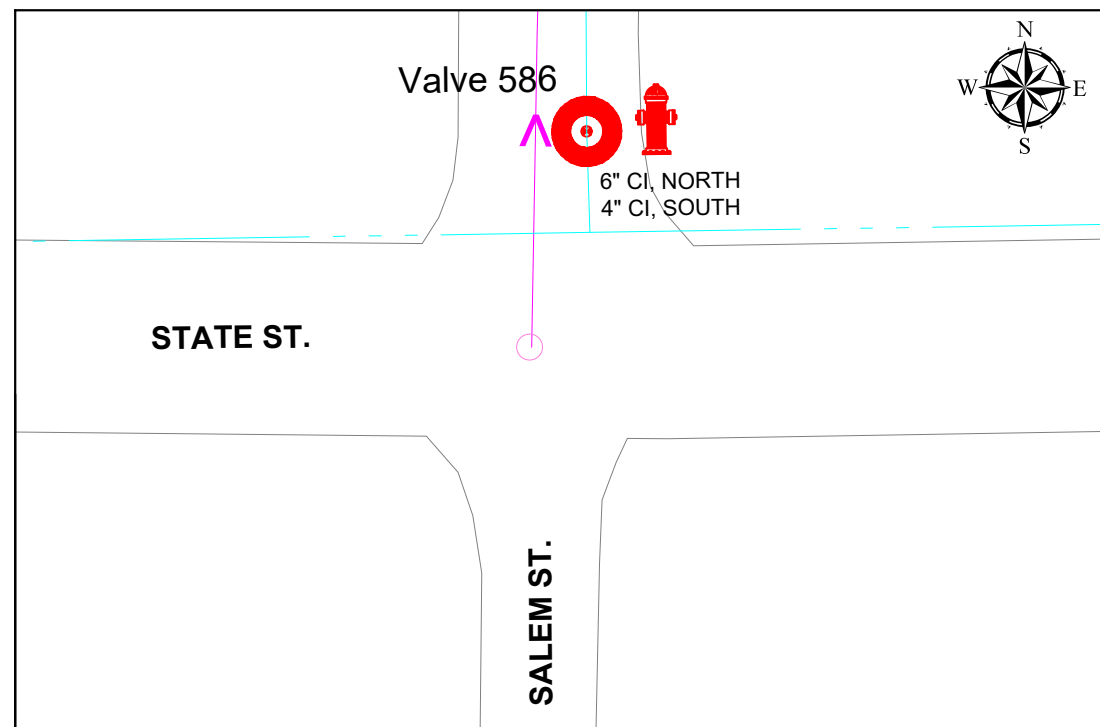
N Manning / River



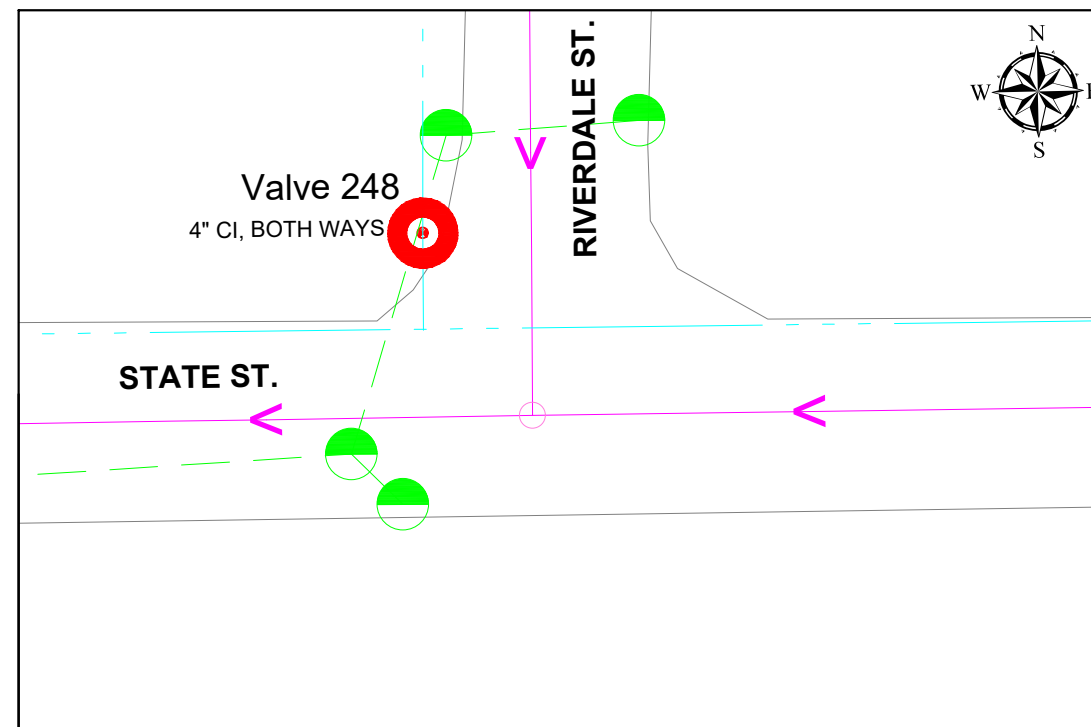
N West / Monroe



State / Salem



State / Riverdale



KEY	
SANITARY	→
WATER	---
STORM	- - -
	→ (Pink Arrow)
	○ (Green Circle)
	○ (Blue Circle)
VALVE REPLACEMENT LOCATION	○ (Red Circle)
VALVE INSERT LOCATION	○ (Green Circle)
VALVE ABANDON LOCATION	○ (Blue Circle)

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

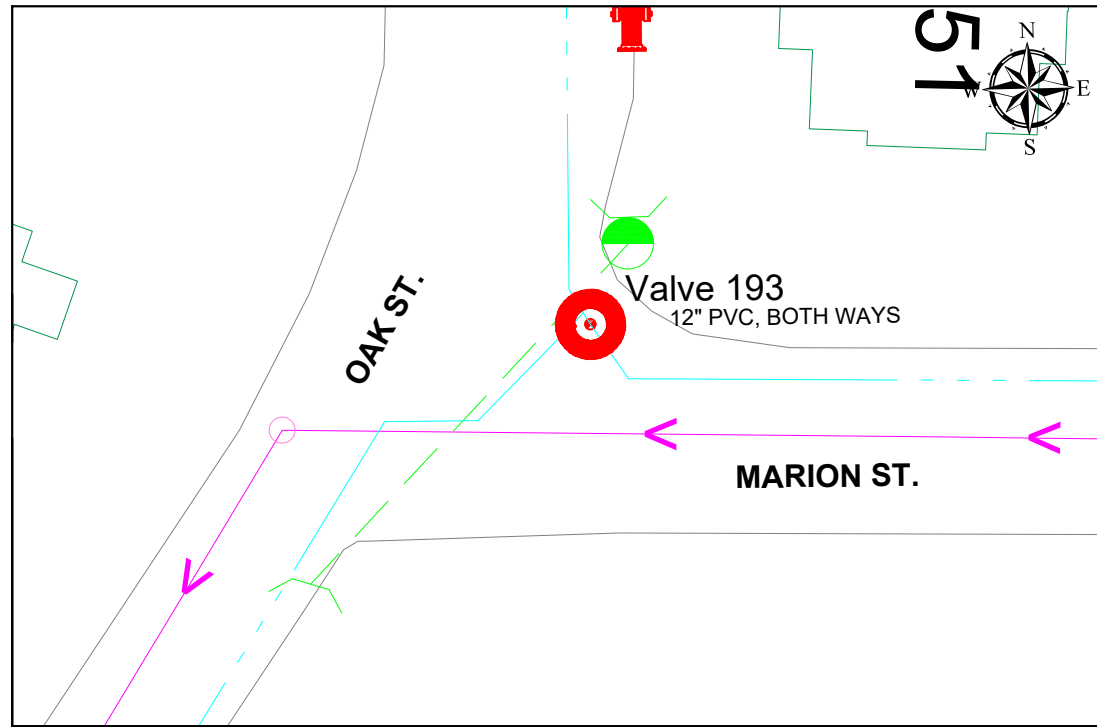
VALVES 123, 125, 248, 586

DRAWING SCALE:
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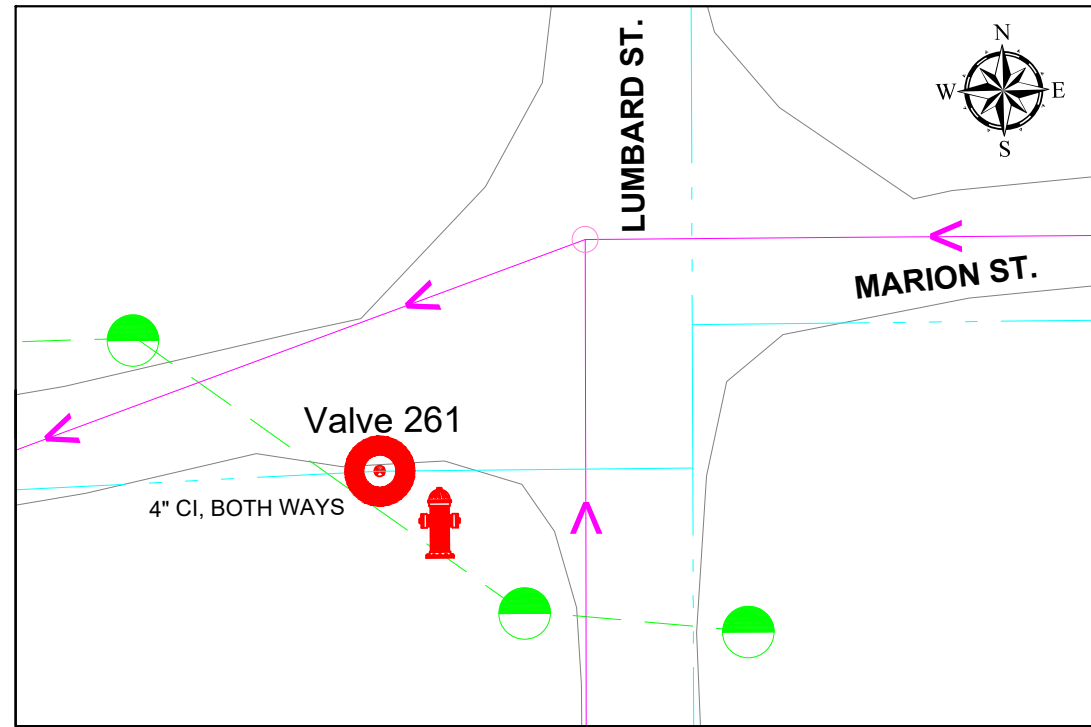
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W2**

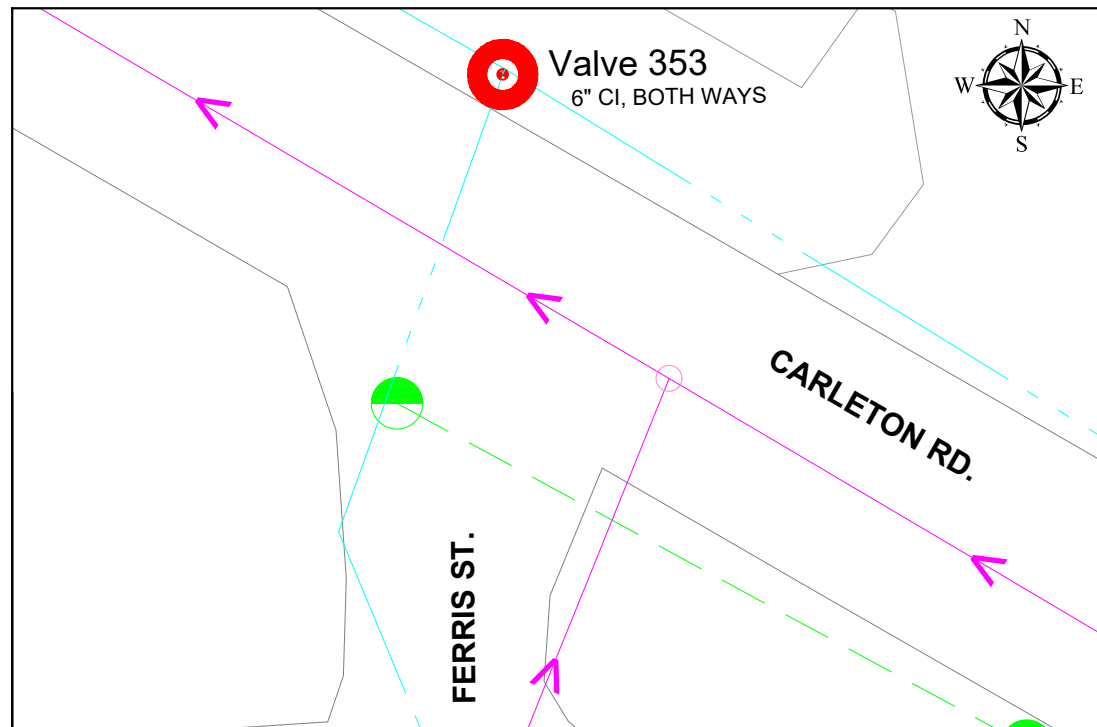
Marion / Oak



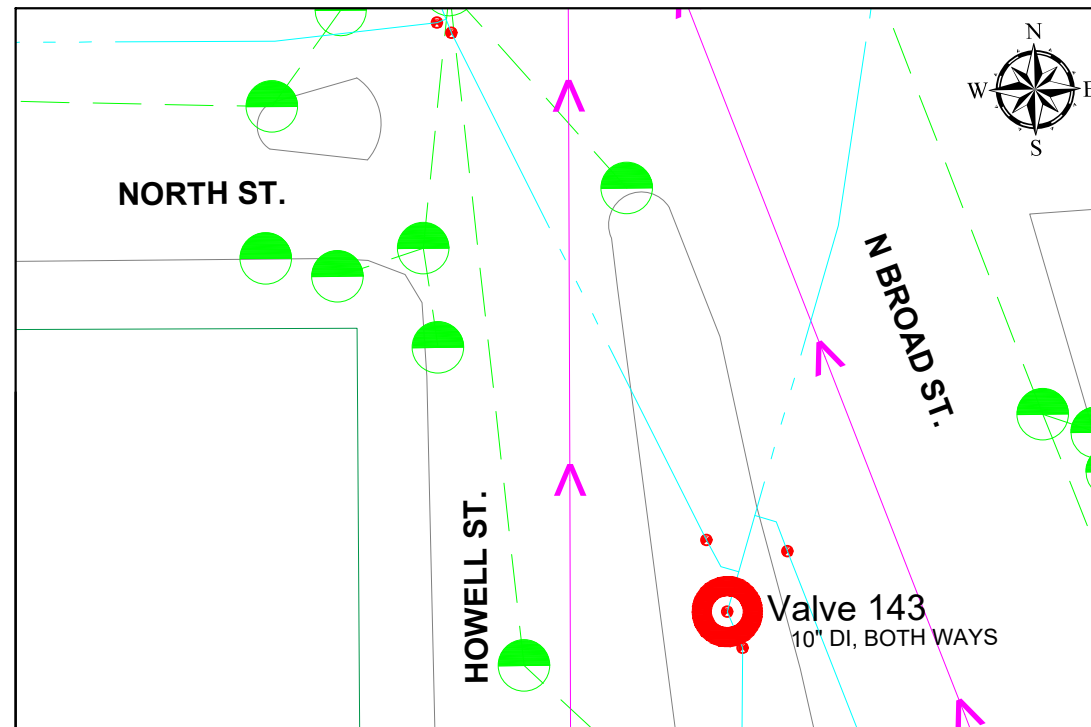
Marion / Lumbard



Carleton / Ferris



Howell / North



KEY			
SANITARY	→	VALVE REPLACEMENT LOCATION	●
WATER	- - -	VALVE INSERT LOCATION	●
STORM	- - -	VALVE ABANDON LOCATION	●

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

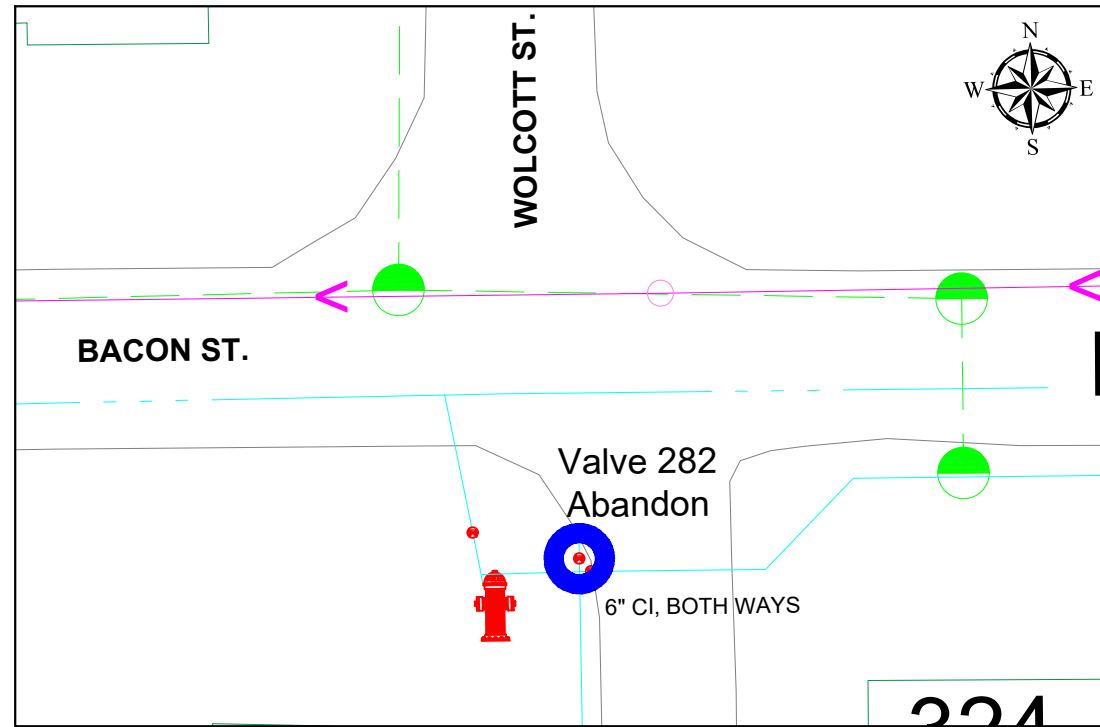
VALVES 143, 193, 261, 353

DRAWING SCALE:
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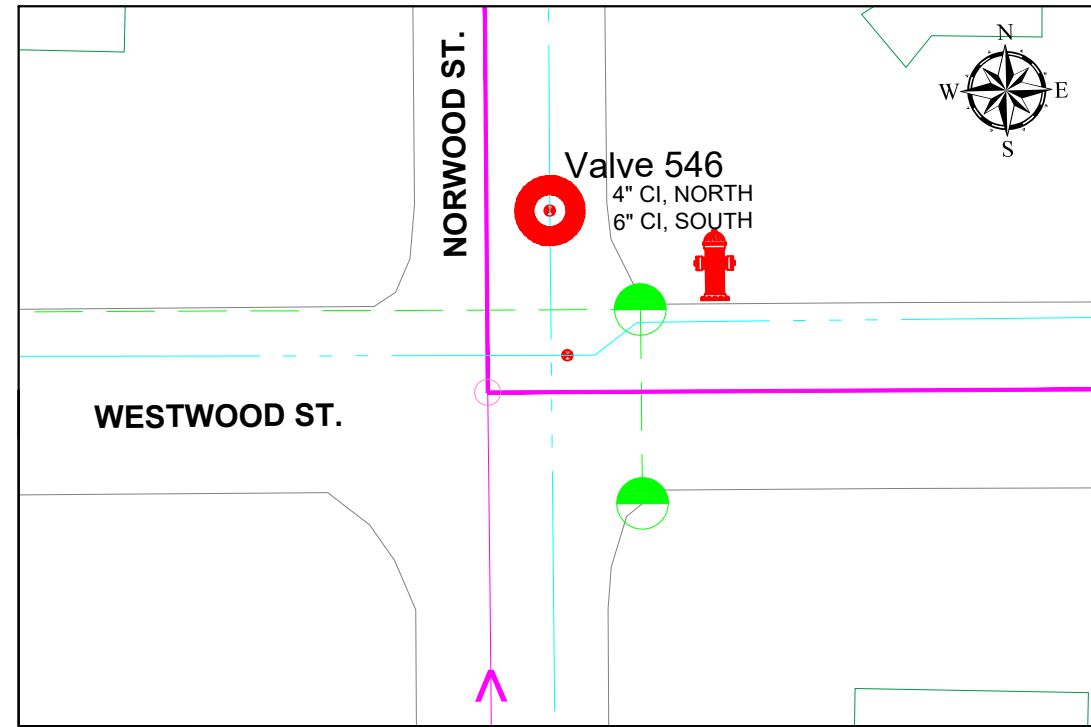
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W3**

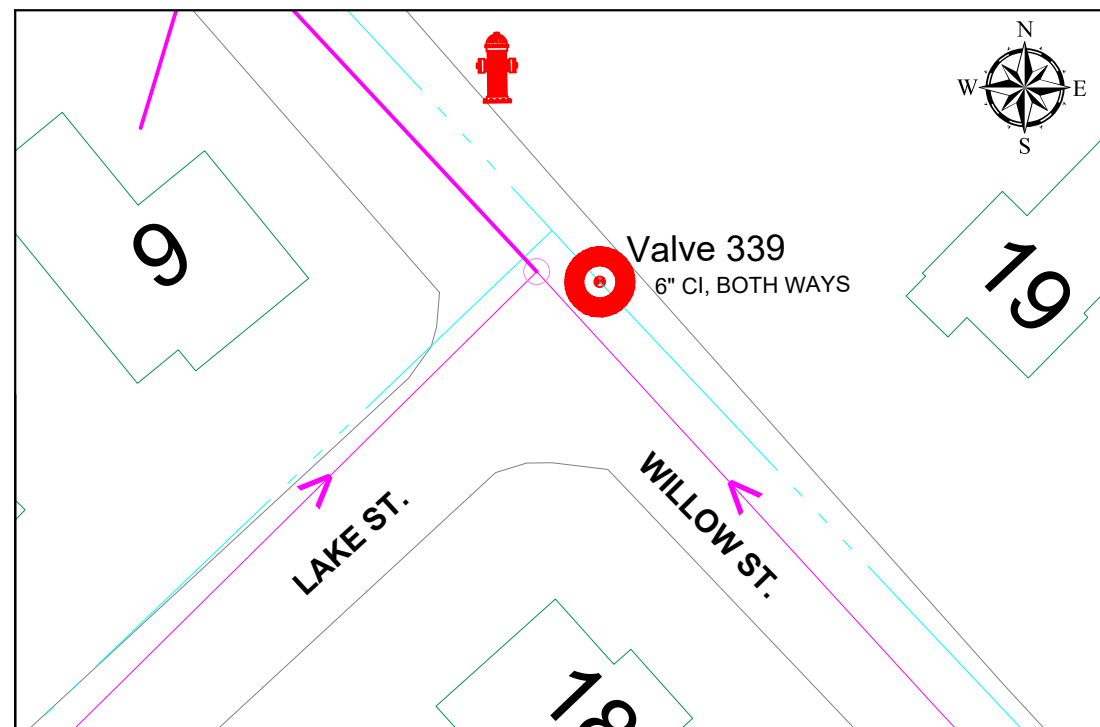
Bacon / Wolcott



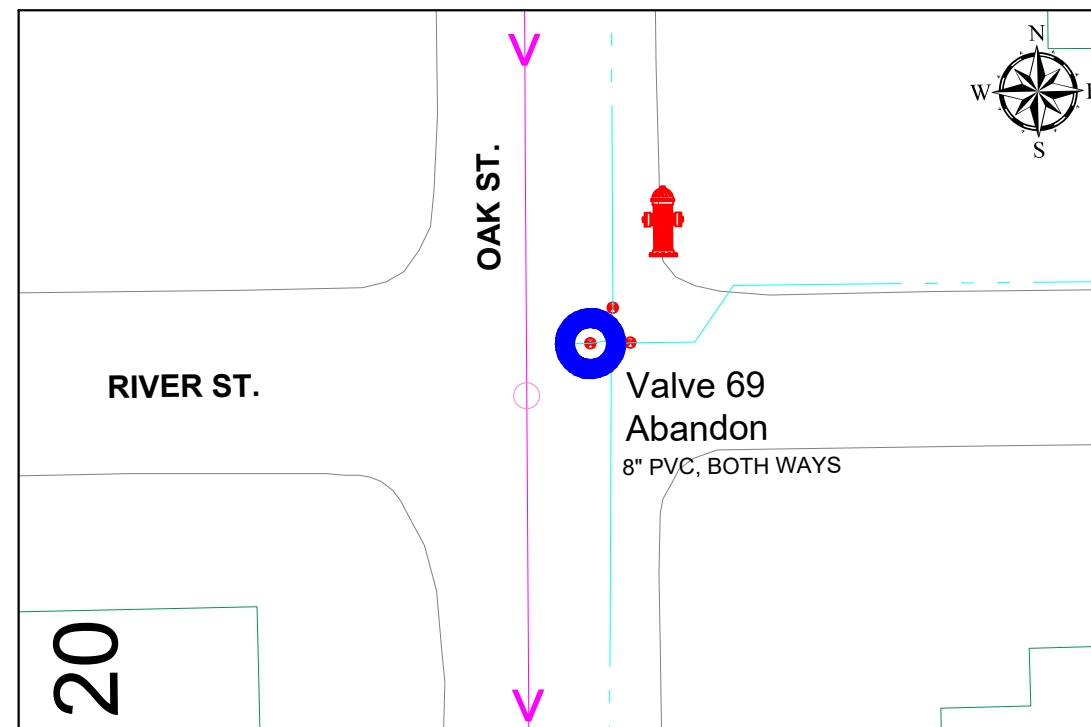
Westwood / Norwood



Lake / Willow



Oak / River

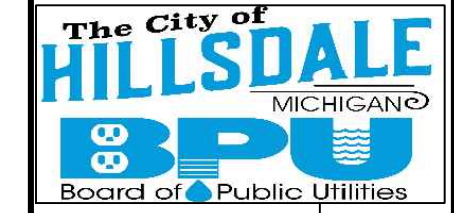


KEY	
SANITARY	→ → →
WATER	— · — · — ·
STORM	- - - - -
VALVE REPLACEMENT LOCATION	● (Red)
VALVE INSERT LOCATION	● (Green)
VALVE ABANDON LOCATION	● (Blue)

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

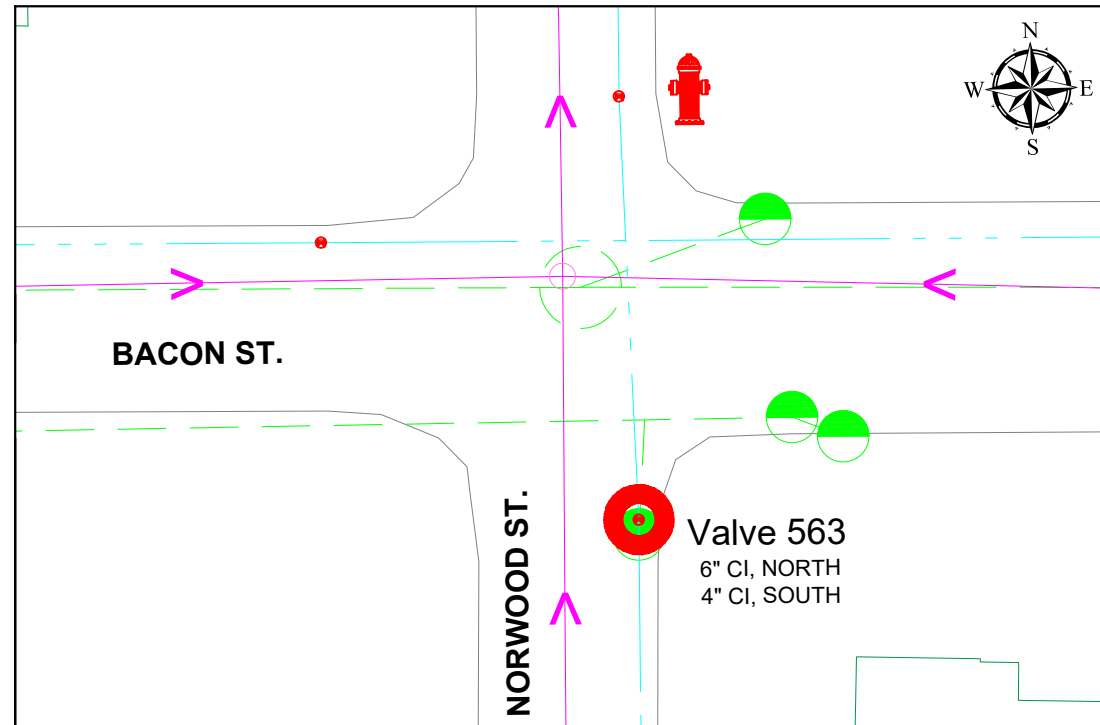
VALVES 69, 282, 339, 546

DRAWING SCALE:
NOT TO SCALE

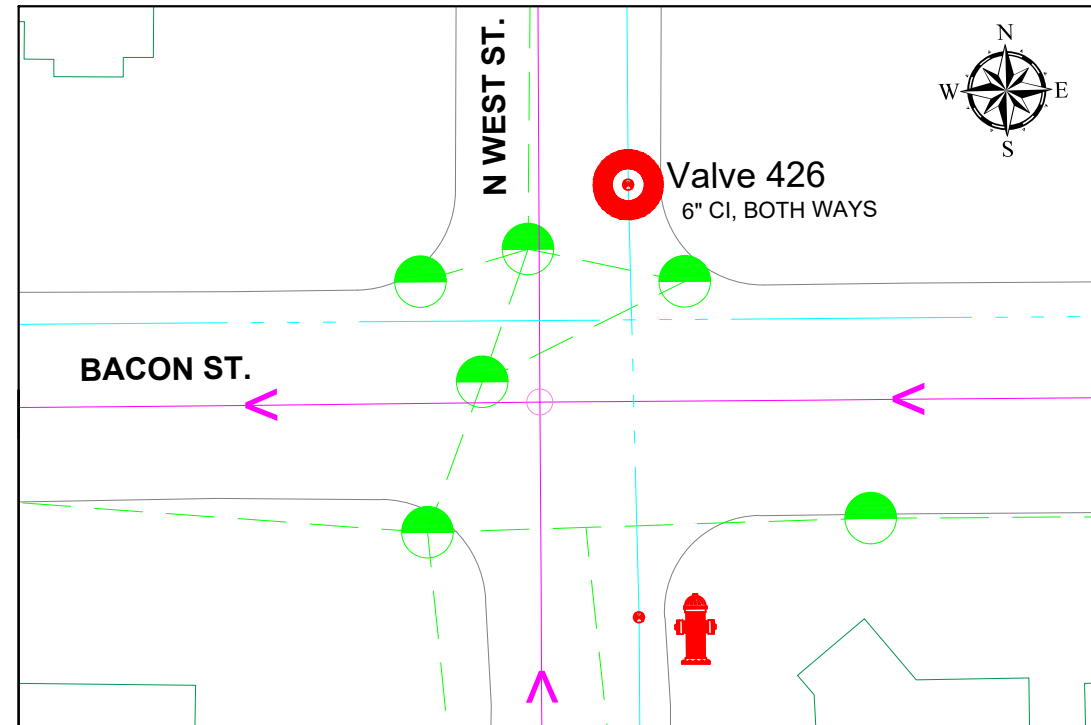
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W4**

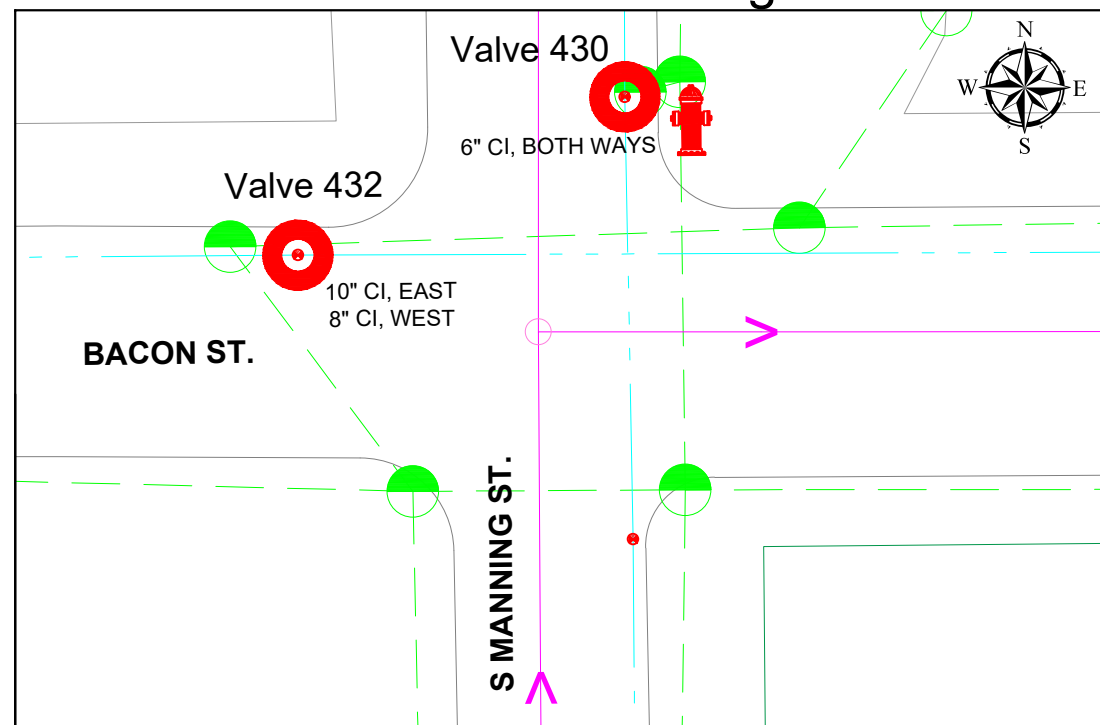
Bacon / Norwood



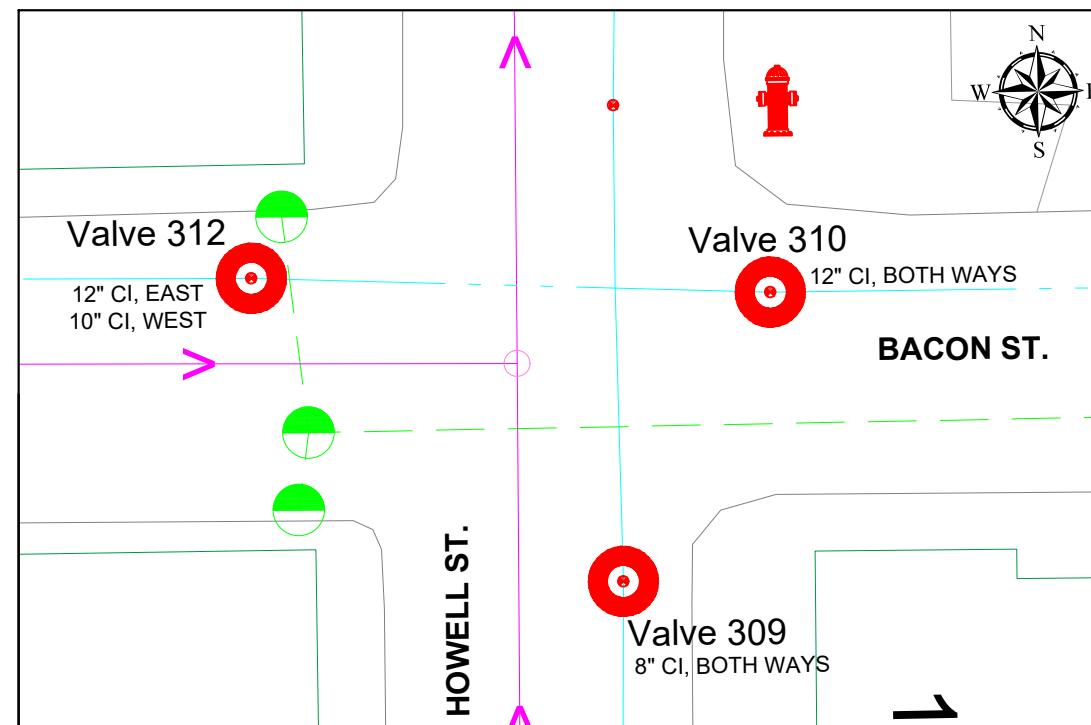
Bacon / West



Bacon / Manning



Bacon / Howell



KEY	
SANITARY	→ → →
WATER	— · — · —
STORM	- - - - -
VALVE REPLACEMENT LOCATION	● (Red)
VALVE INSERT LOCATION	● (Green)
VALVE ABANDON LOCATION	● (Blue)

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

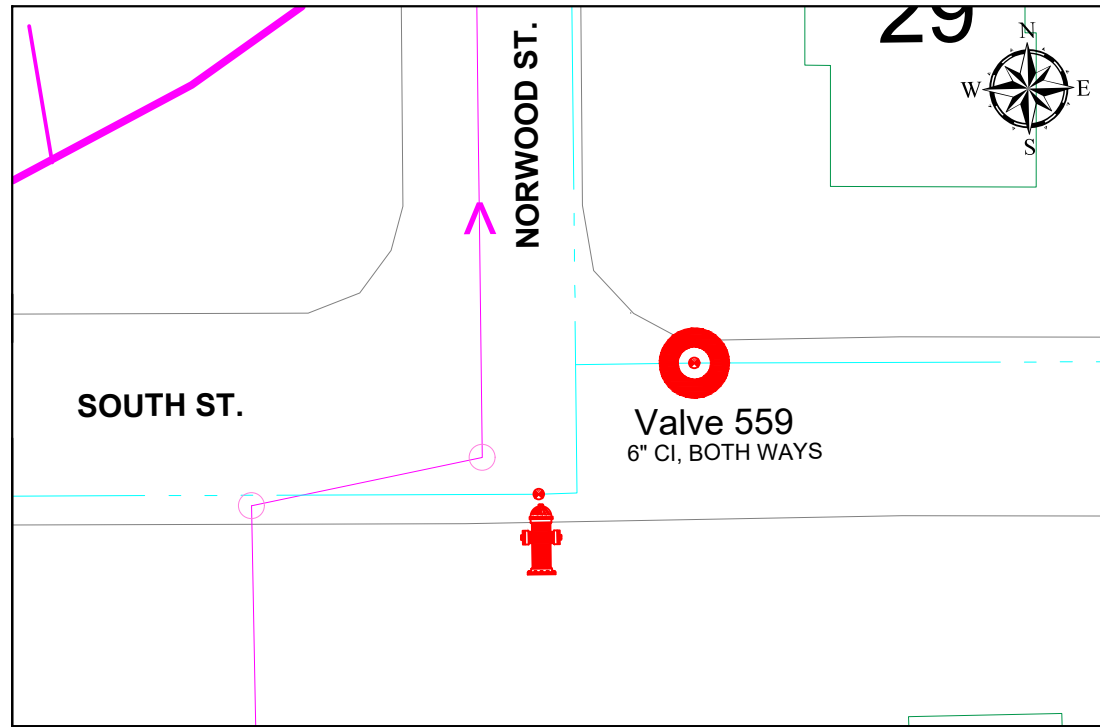
VALVES 309, 310, 312, 426, 430, 432, 563

DRAWING SCALE:
NOT TO SCALE

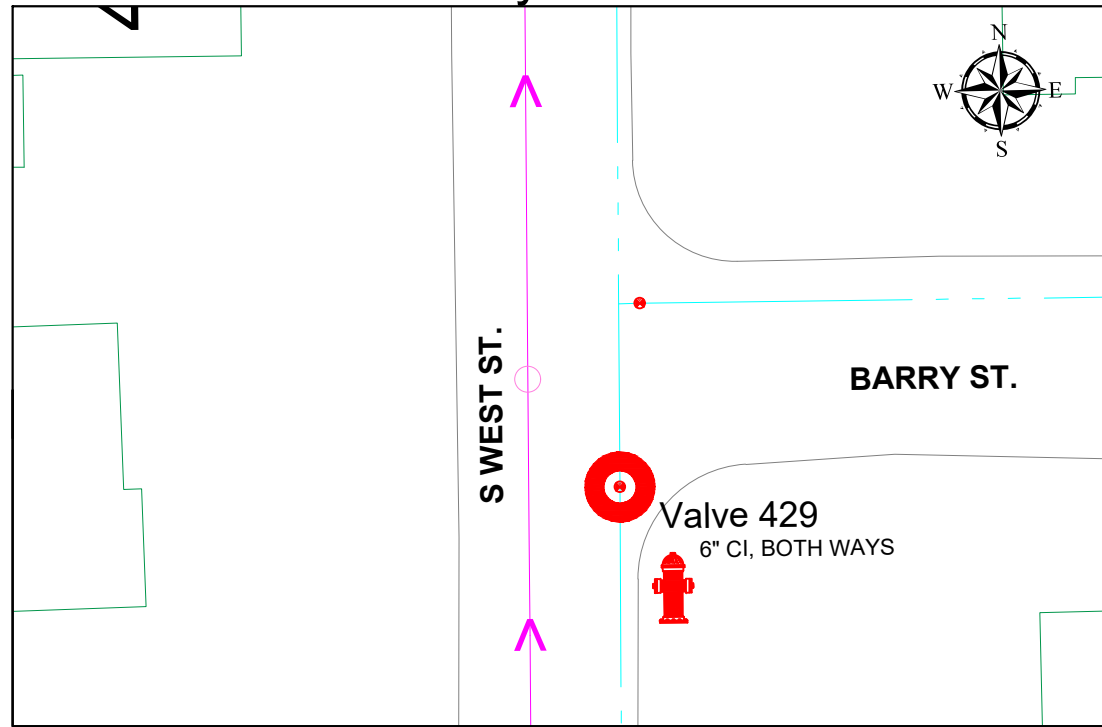
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

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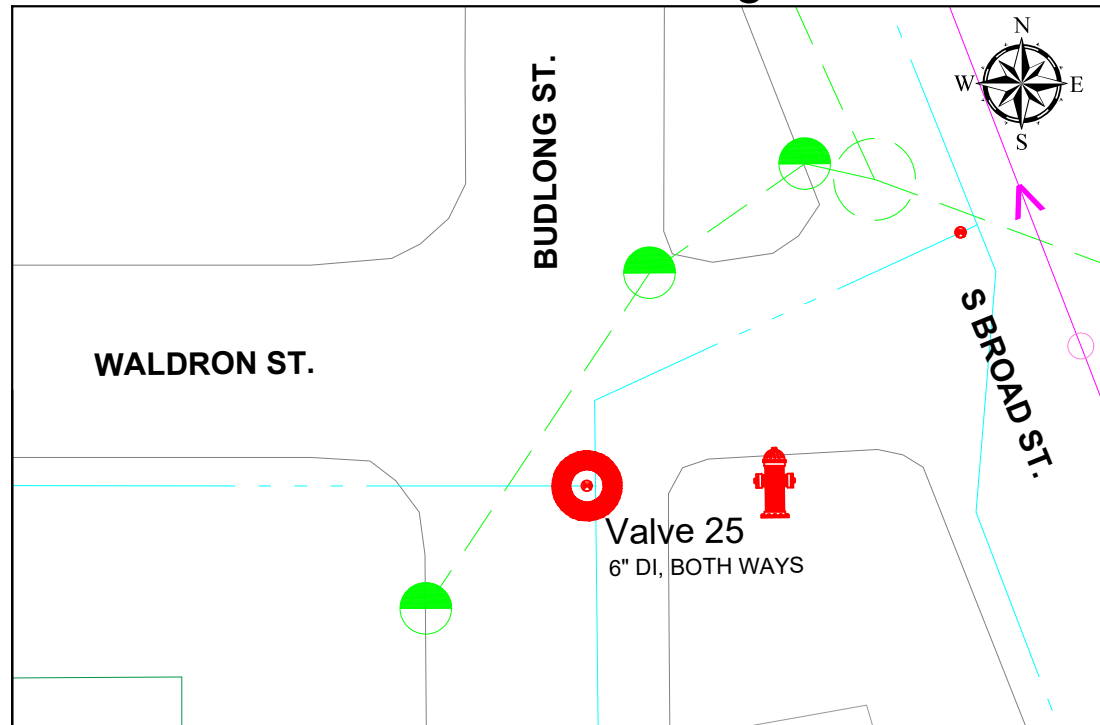
South / Norwood



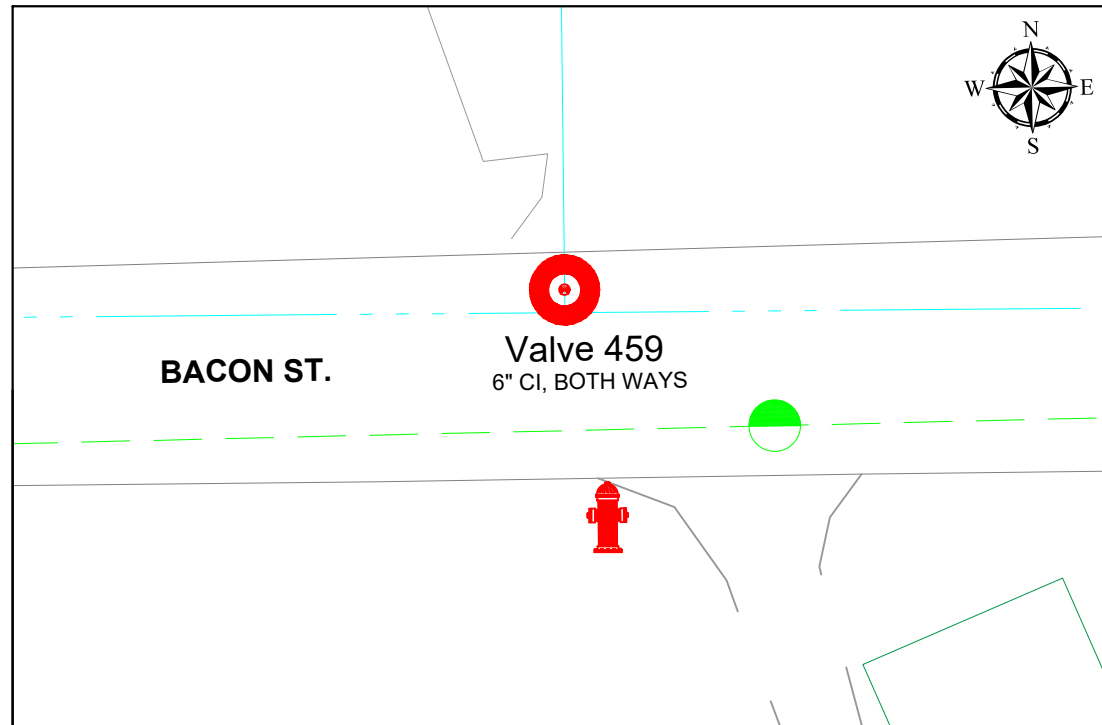
Barry / West



Waldron / Budlong



Bacon / E of Broad



KEY	
SANITARY	→
WATER	---
STORM	- - -
VALVE REPLACEMENT LOCATION	○
VALVE INSERT LOCATION	●
VALVE ABANDON LOCATION	●

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

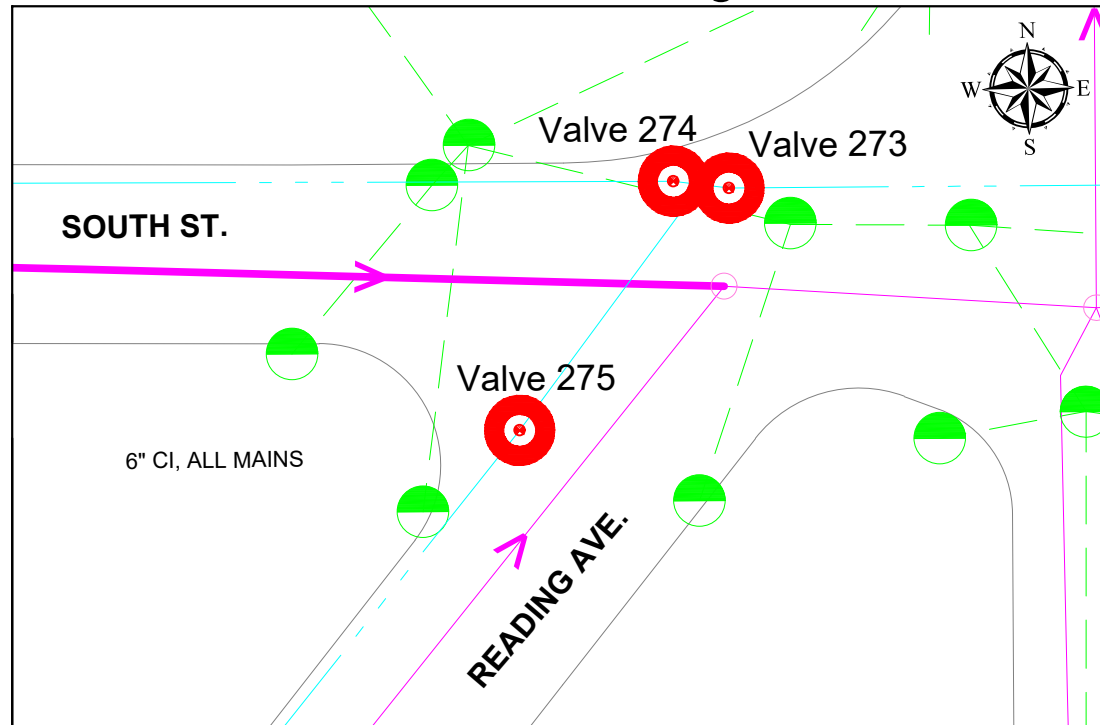
VALVES 25, 429, 459, 559

DRAWING SCALE:
NOT TO SCALE

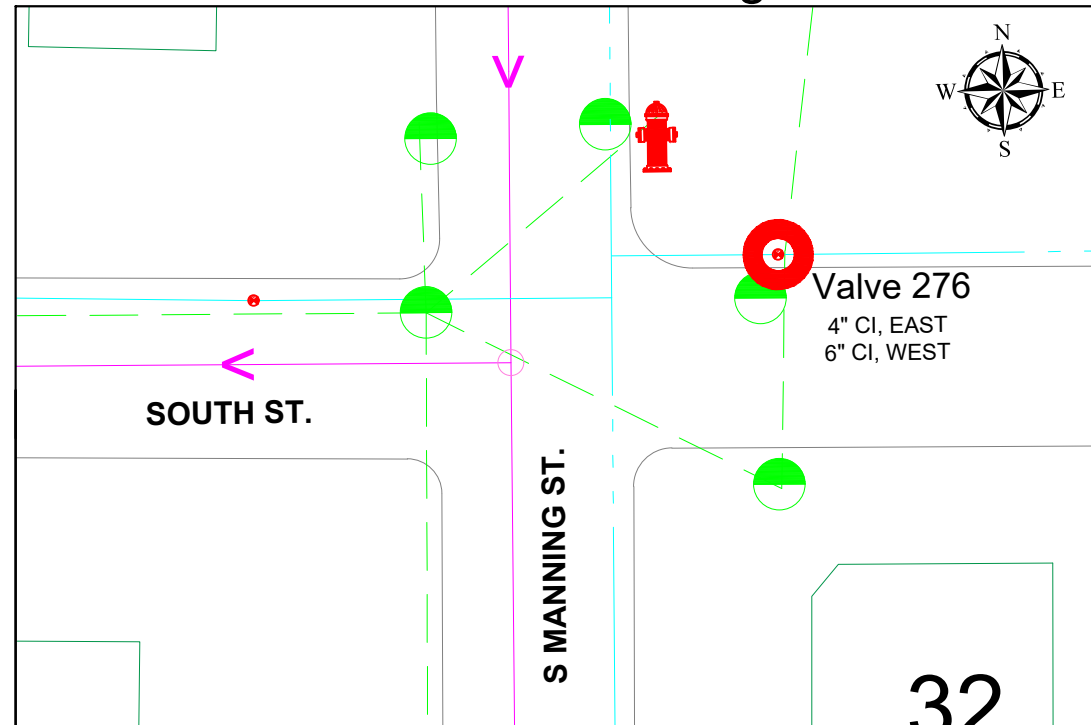
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W6**

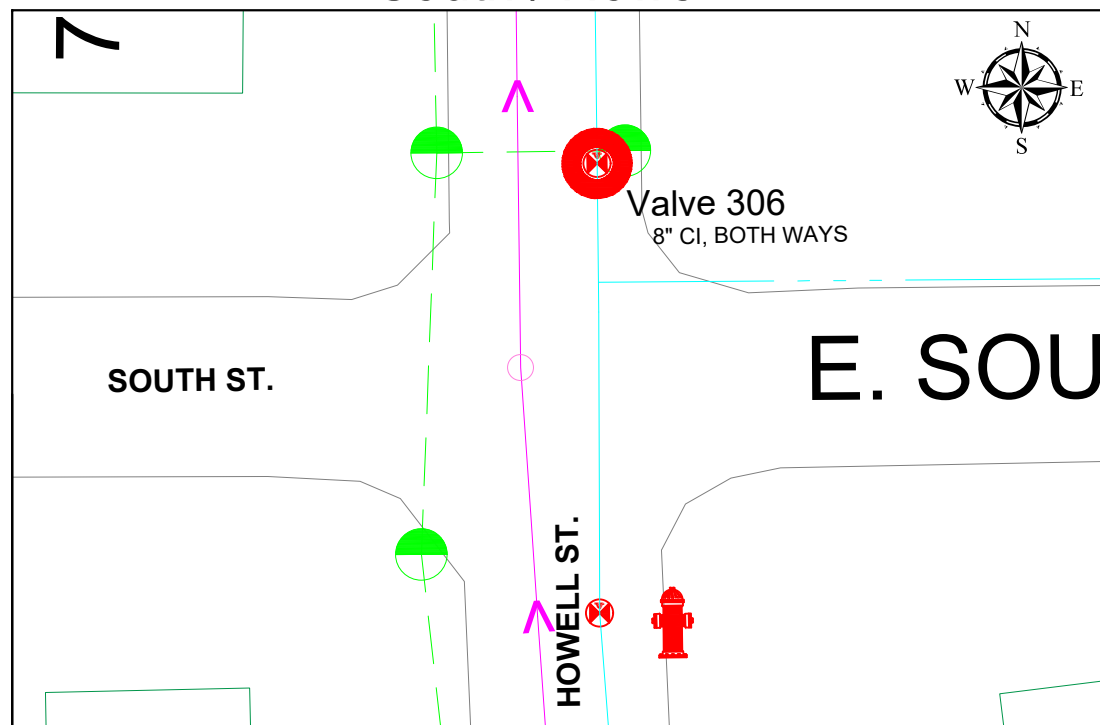
South / Reading



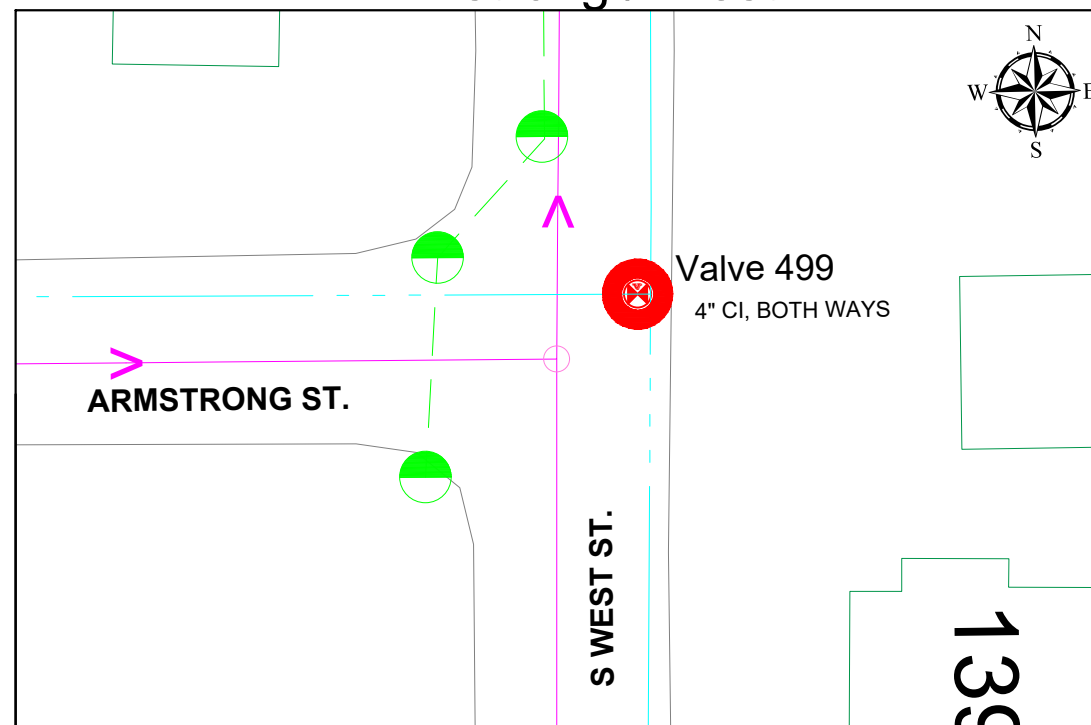
South / Manning



South / Howell



Armstrong / West



KEY	
SANITARY	→
WATER	- - -
STORM	- - -
VALVE REPLACEMENT LOCATION	● (Red)
VALVE INSERT LOCATION	● (Green)
VALVE ABANDON LOCATION	● (Blue)

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

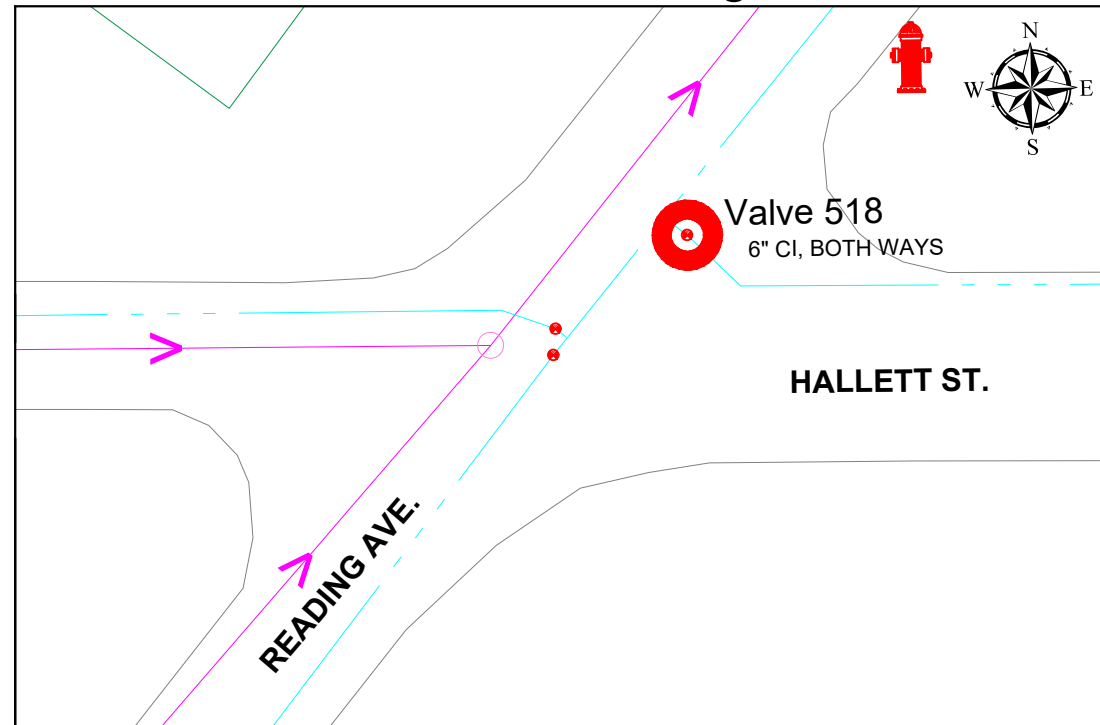
CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
WATER VALVE REPLACEMENTS
VALVES 273, 274, 275, 276, 306, 499

DRAWING SCALE:
NOT TO SCALE

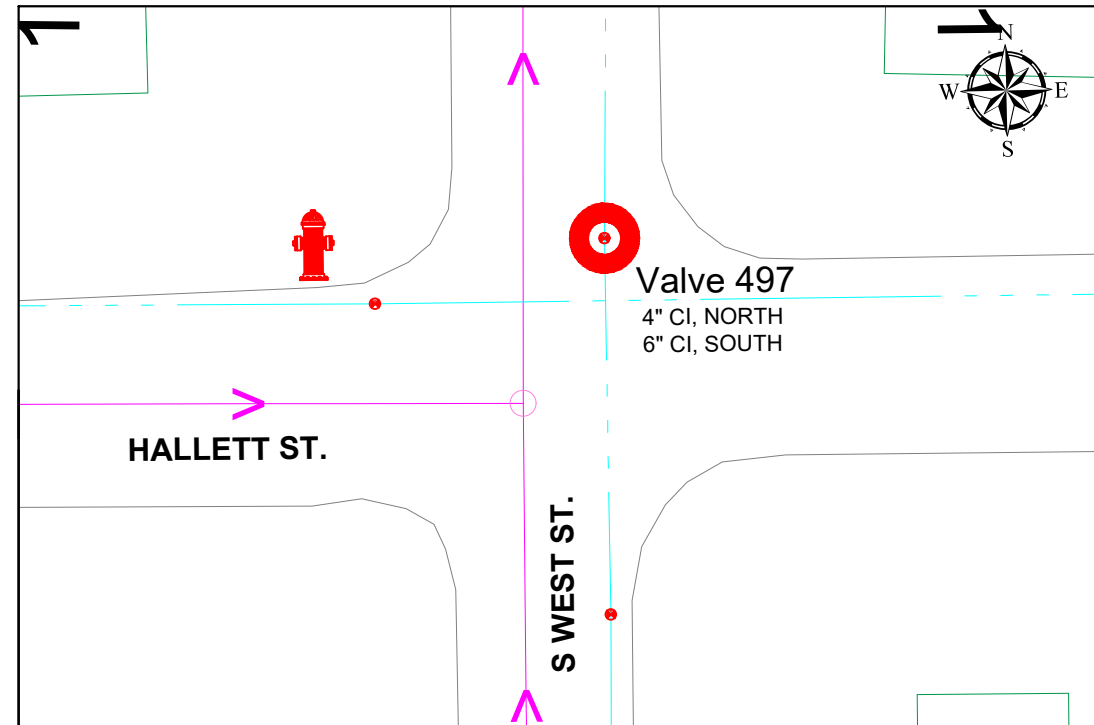
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

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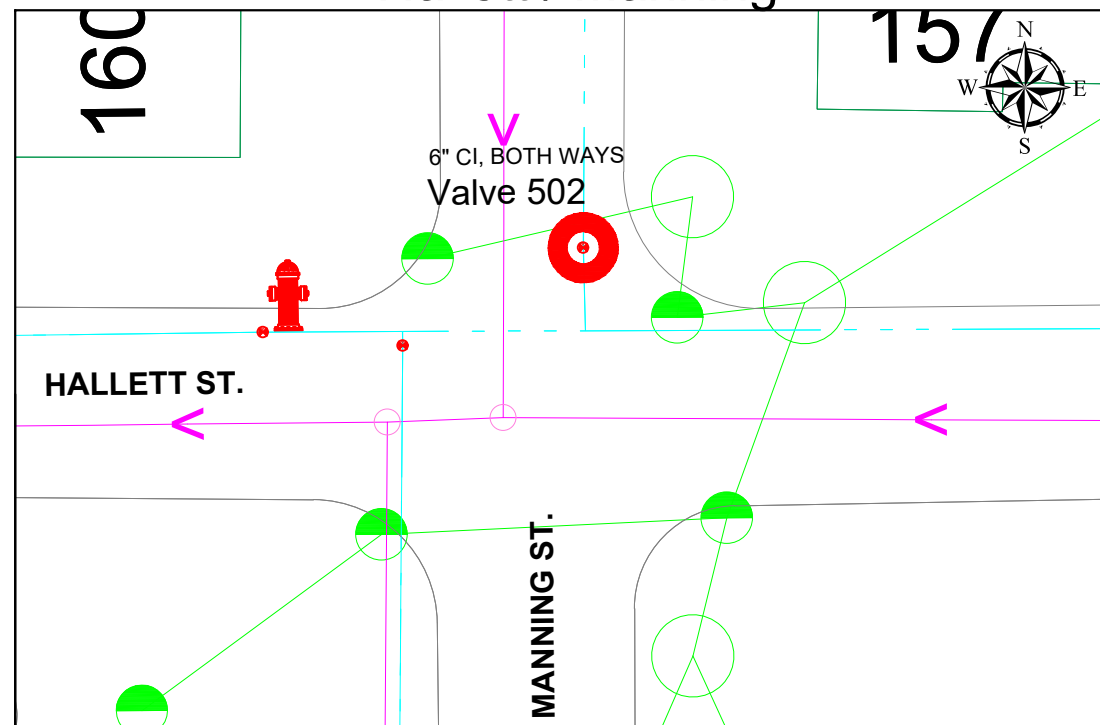
Hallett / Reading



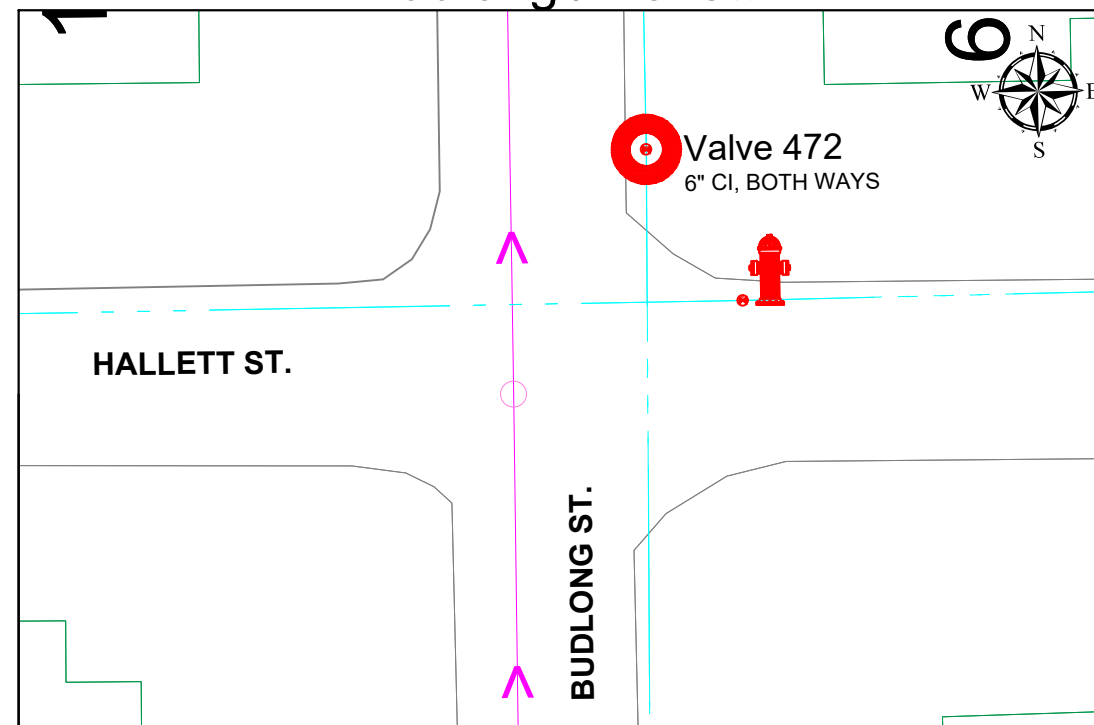
Hallett / West



Hallett / Manning



Budlong / Hallett



KEY			
SANITARY	→	VALVE REPLACEMENT LOCATION	●
WATER	- - -	VALVE INSERT LOCATION	●
STORM	- - -	VALVE ABANDON LOCATION	●

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

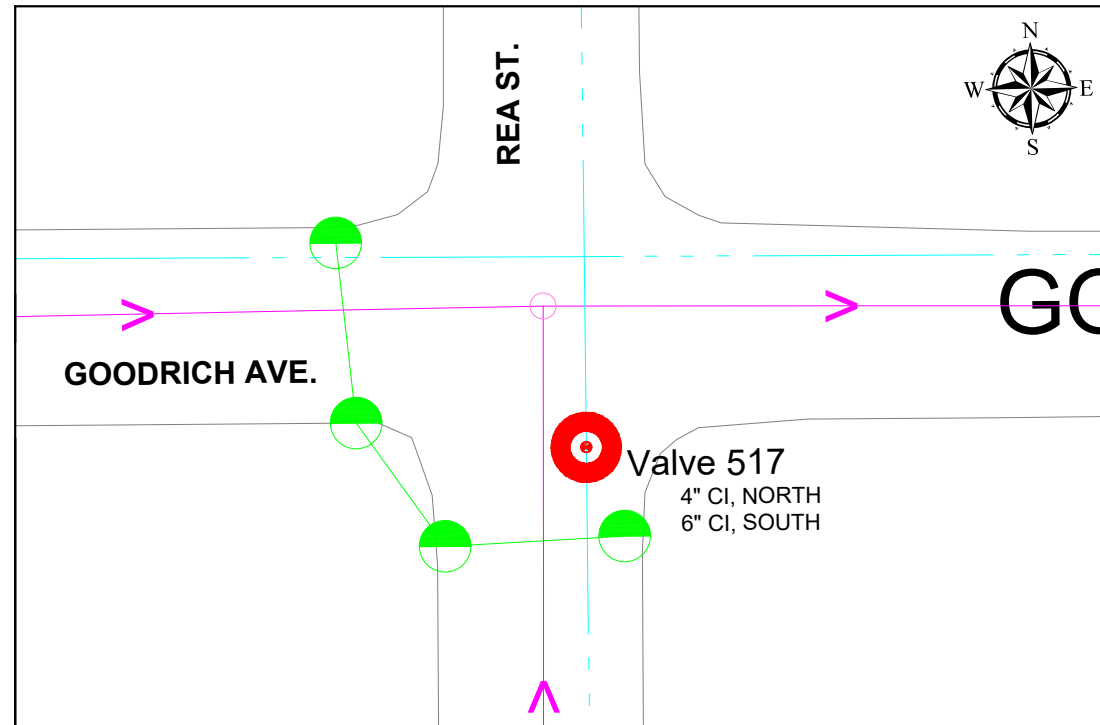
CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

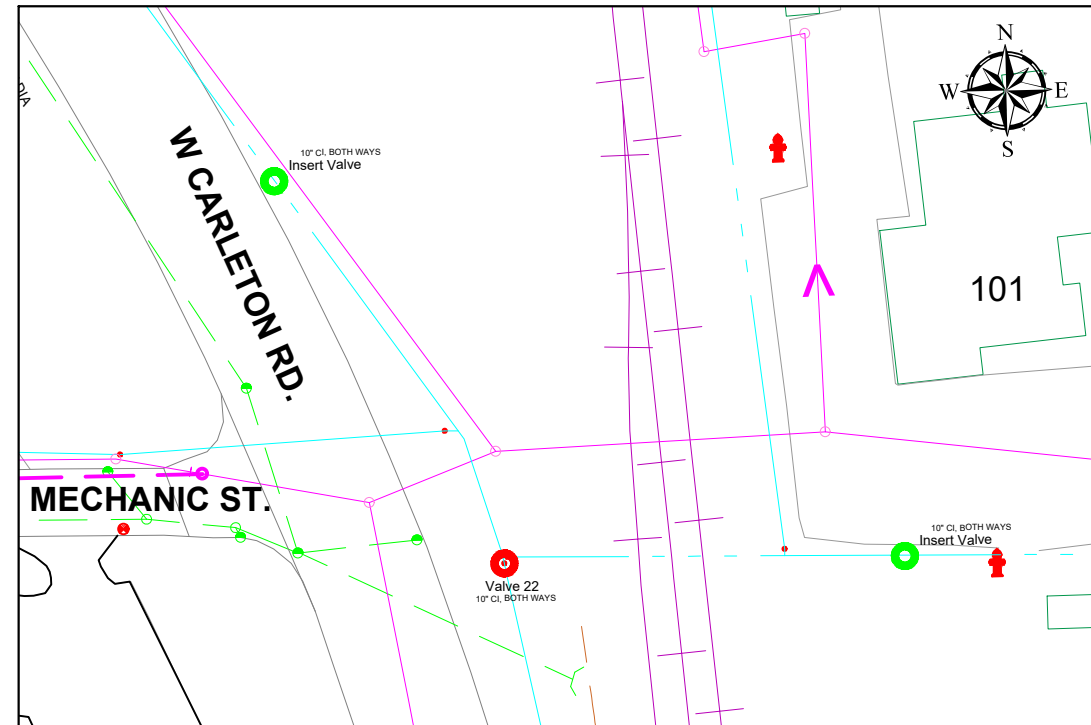
VALVES 472, 497, 502, 518

DRAWING SCALE: NOT TO SCALE		
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23
DRAWING NO.		W8

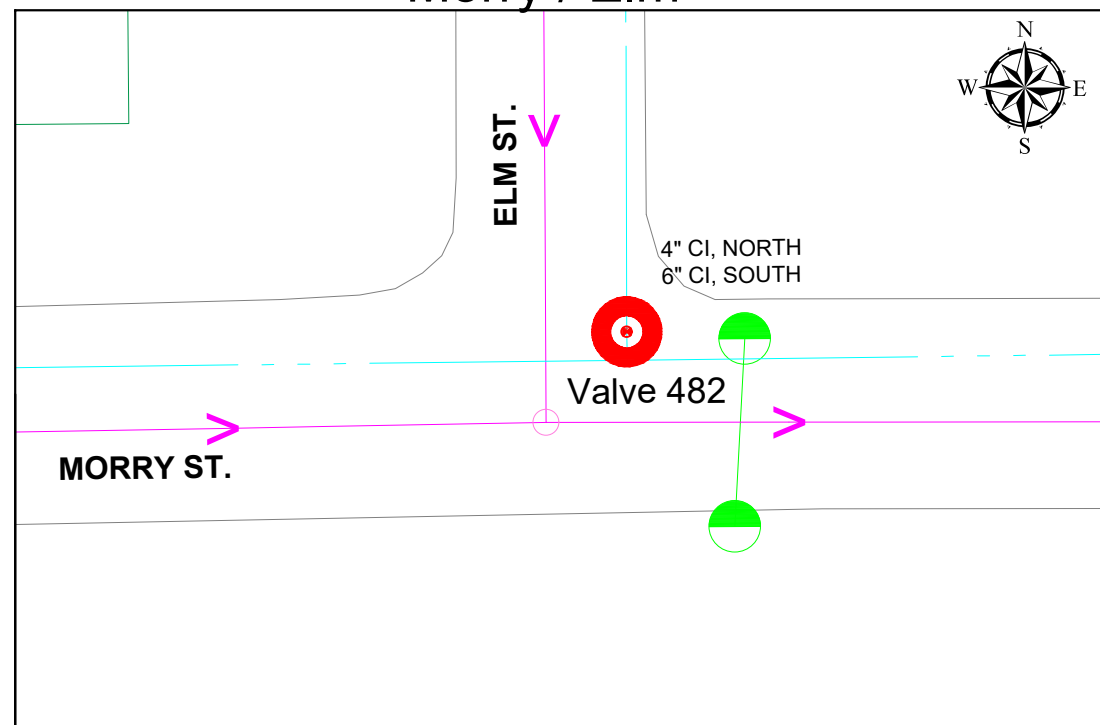
Goodrich / Rea



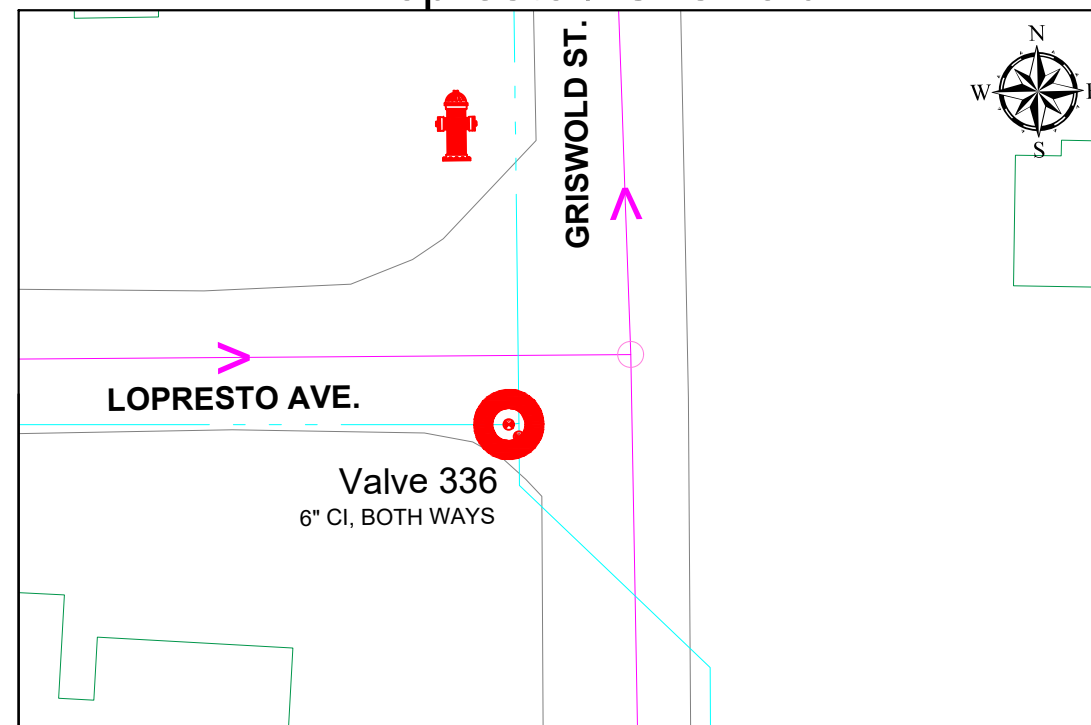
Mechanic / W Carleton



Morry / Elm



Lopresto / Griswold

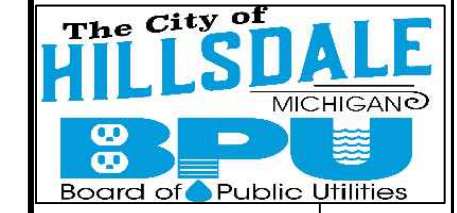


KEY		
SANITARY		VALVE REPLACEMENT LOCATION
WATER		VALVE INSERT LOCATION
STORM		VALVE ABANDON LOCATION

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

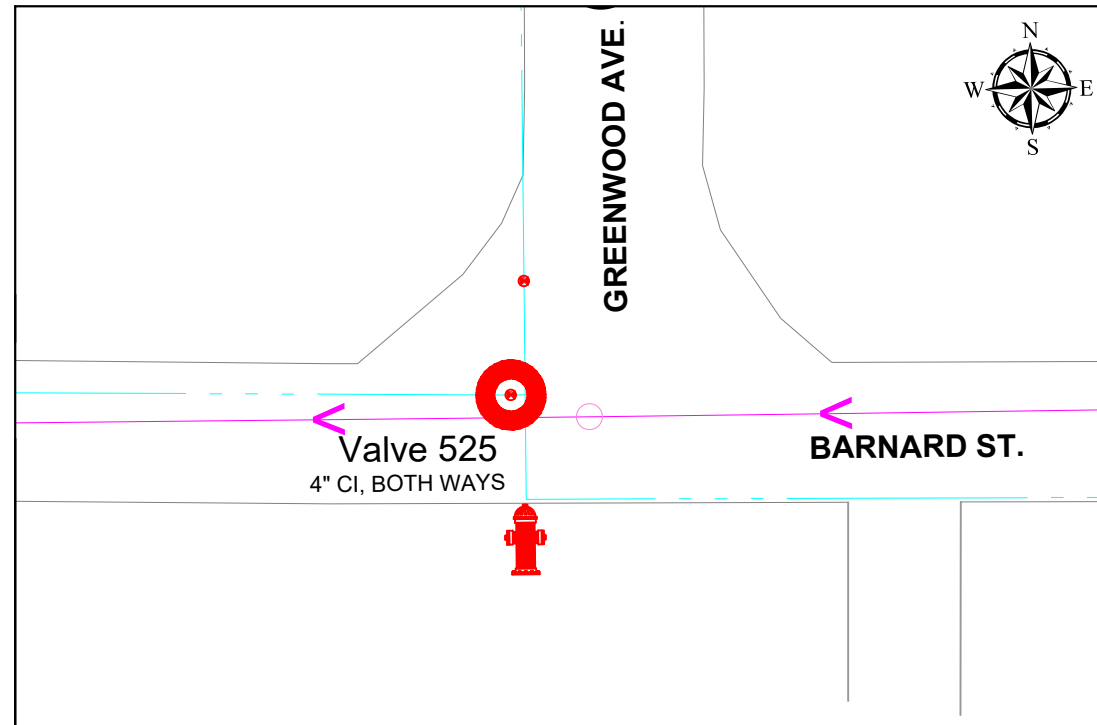
VALVES 22, 336, 482, 517

DRAWING SCALE:
NOT TO SCALE

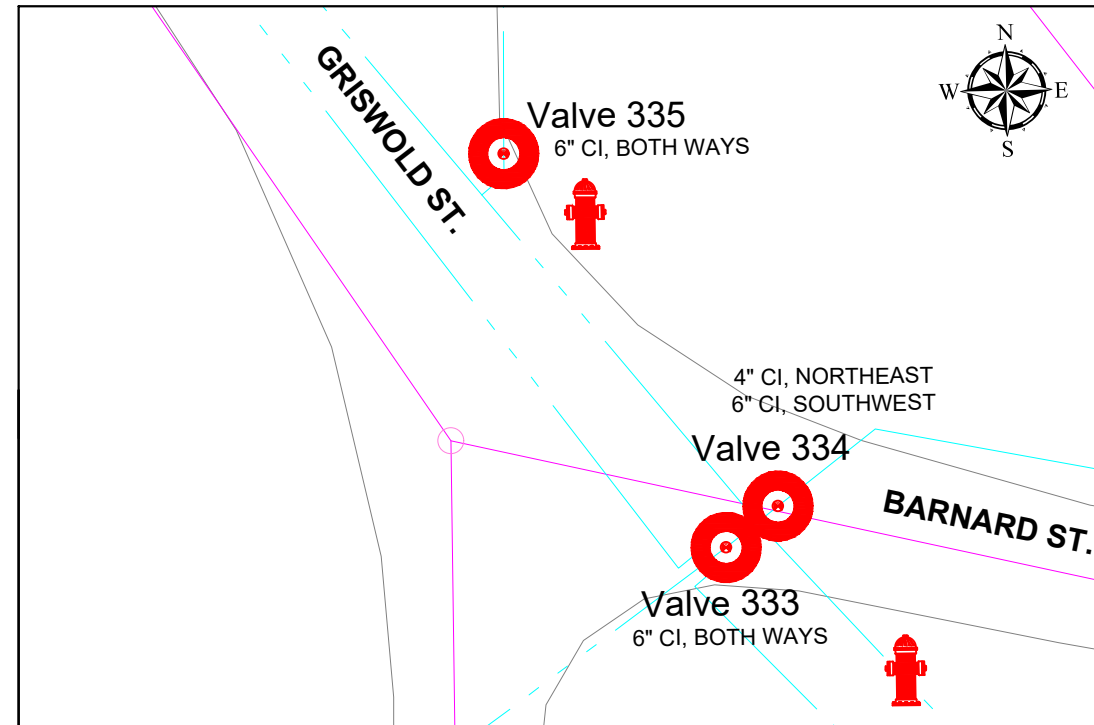
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CHECKED	JG	01/13/23

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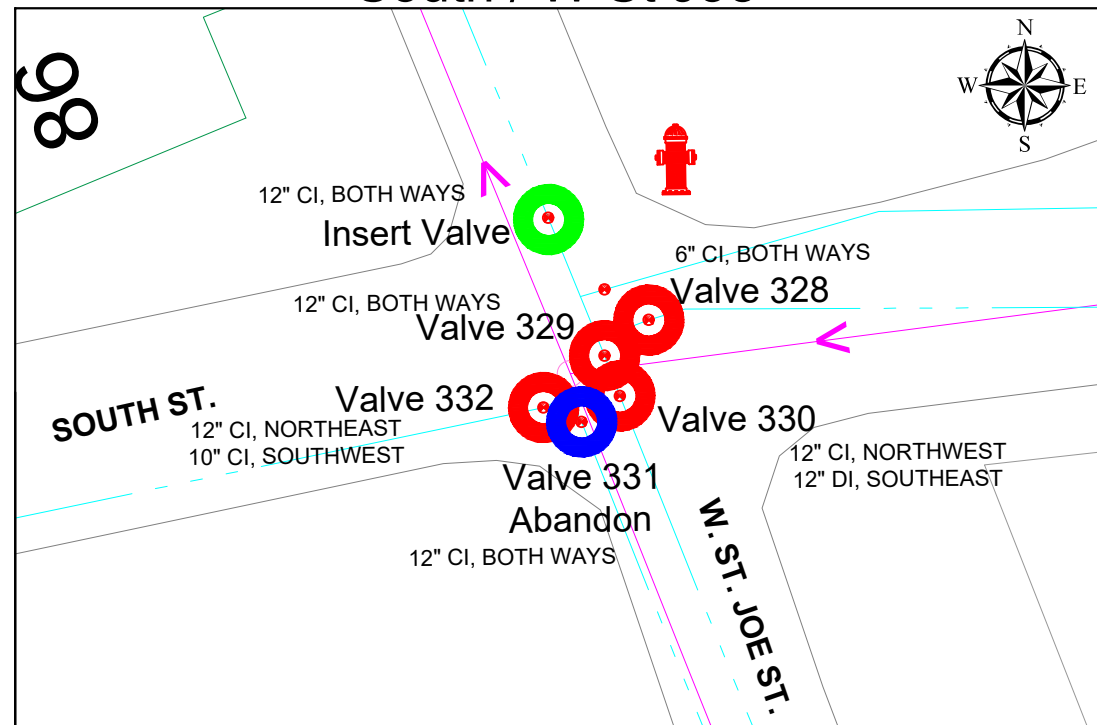
Greenwood / Barnard



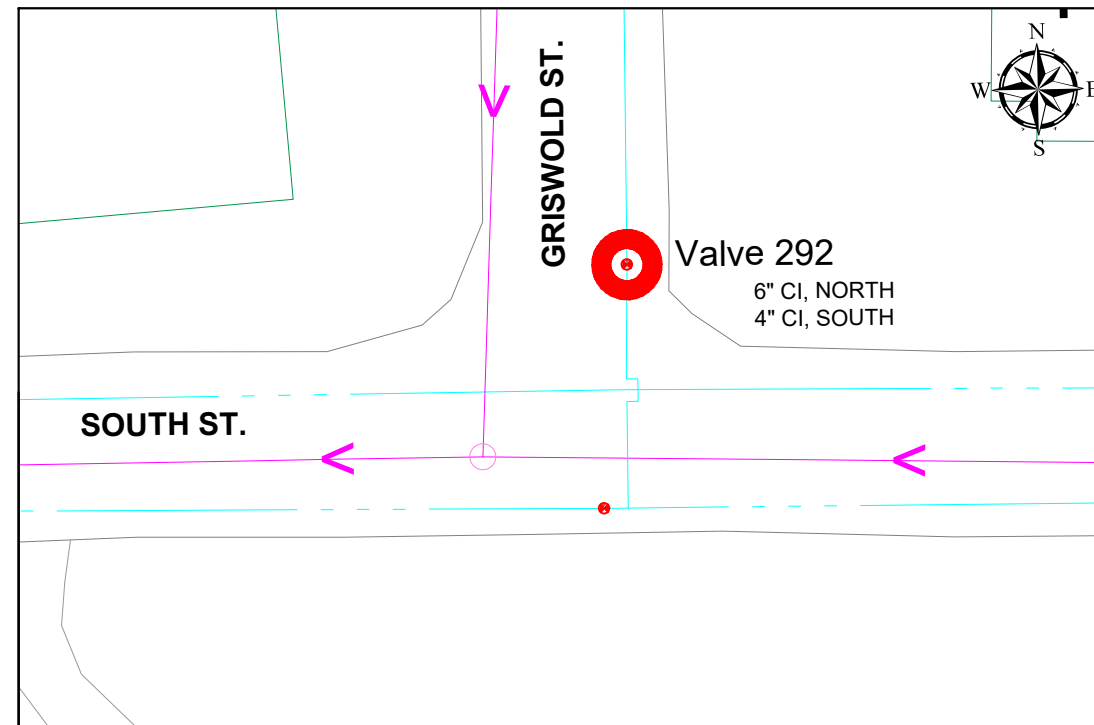
Barnard / Griswold



South / W St Joe



South / Griswold

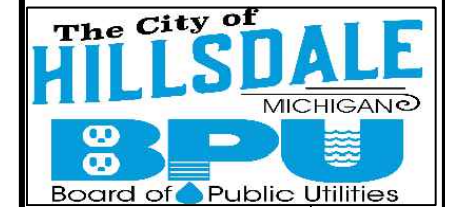


KEY	
SANITARY	→ → →
WATER	- - - - -
STORM	- - - - -
VALVE REPLACEMENT LOCATION	●
VALVE INSERT LOCATION	●
VALVE ABANDON LOCATION	●

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

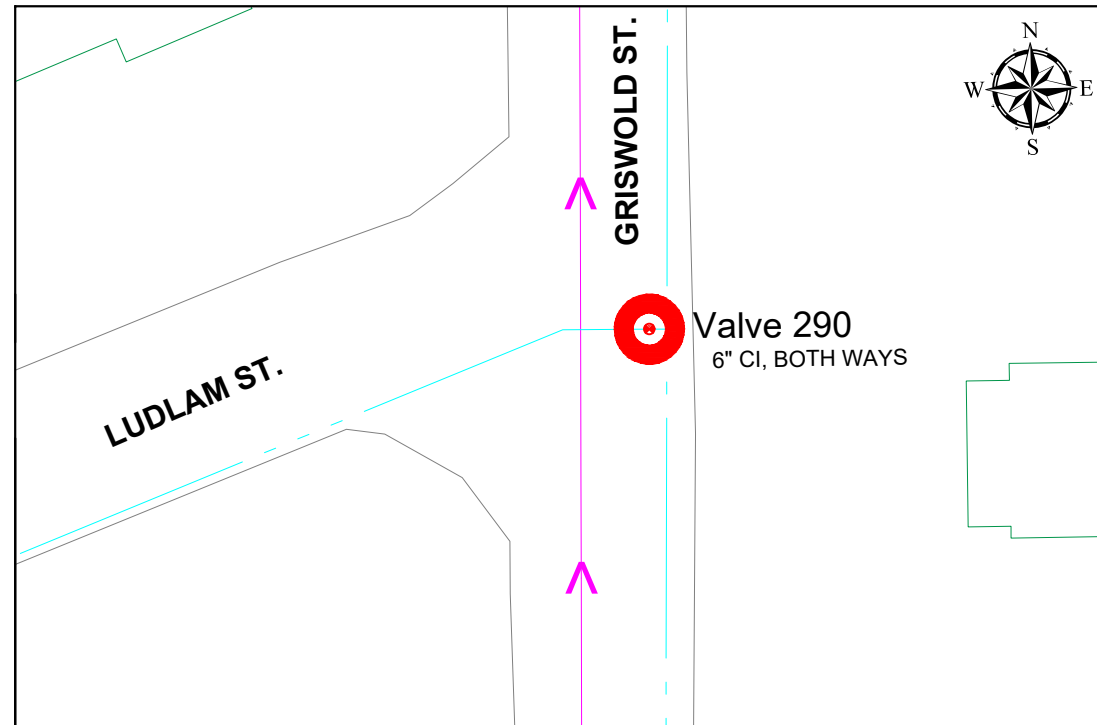
VALVES 292, 328, 329, 330, 331, 332, 333, 334, 335, 525

DRAWING SCALE:
NOT TO SCALE

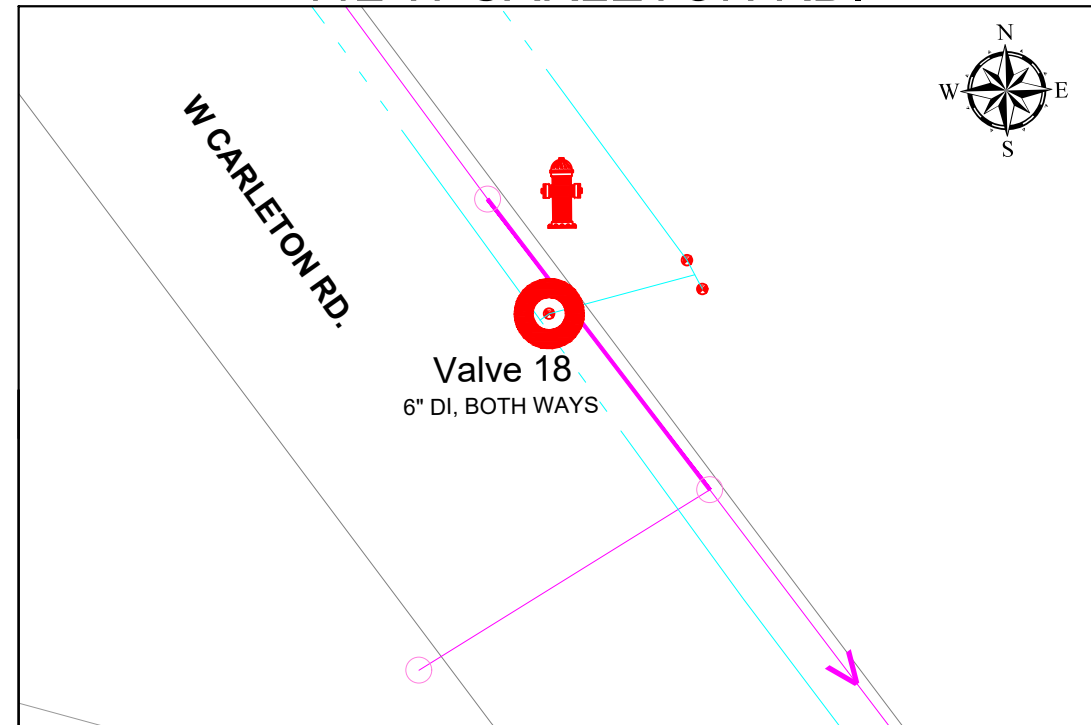
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W10**

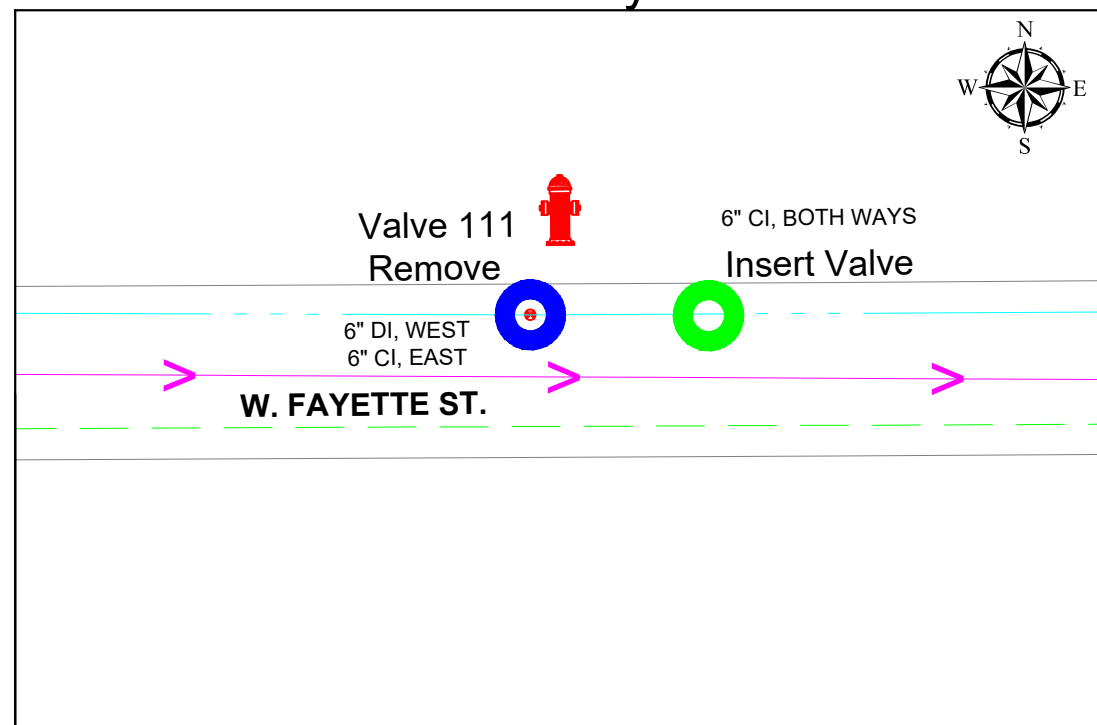
Griswold / Ludlam



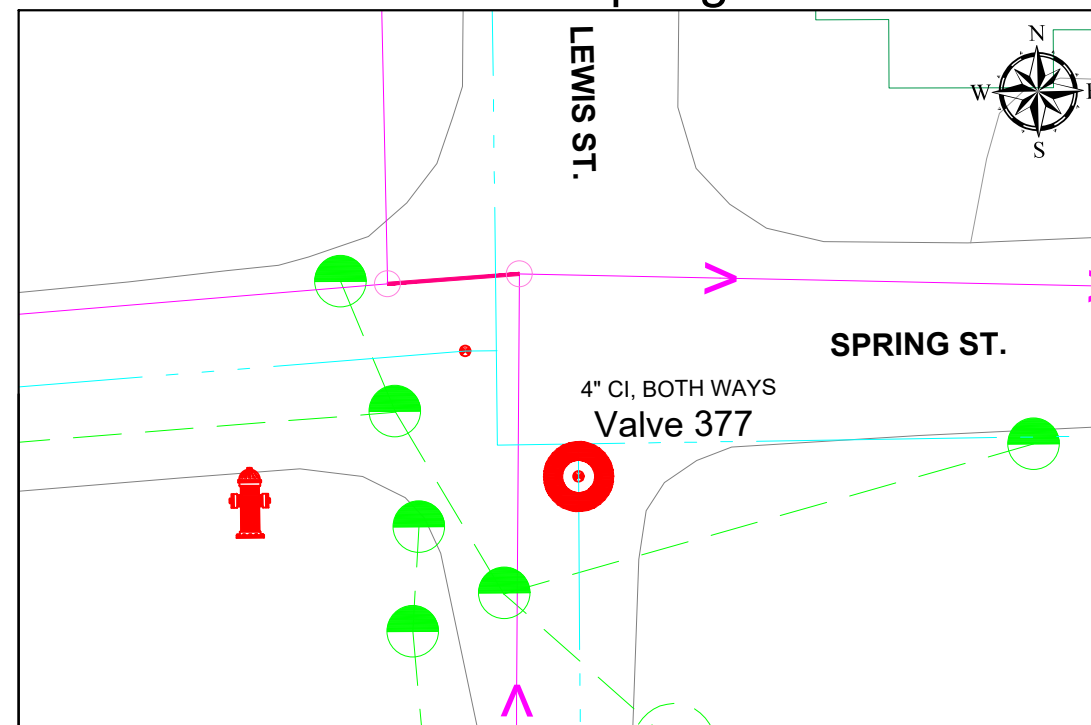
412 W CARLETON RD.



225 W Fayette



Lewis / Spring



KEY			
SANITARY	→→→	VALVE REPLACEMENT LOCATION	●
WATER	- - -	VALVE INSERT LOCATION	●
STORM	- - -	VALVE ABANDON LOCATION	●

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

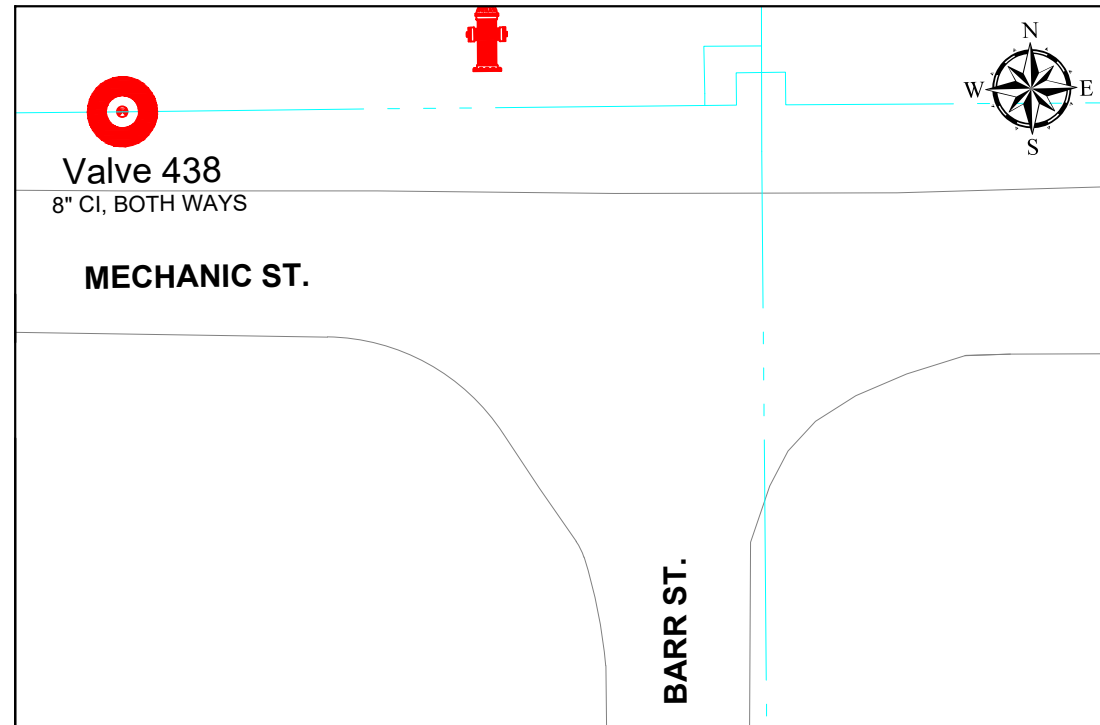
CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
WATER VALVE REPLACEMENTS
VALVES 18, 111, 290, 377

DRAWING SCALE:
NOT TO SCALE

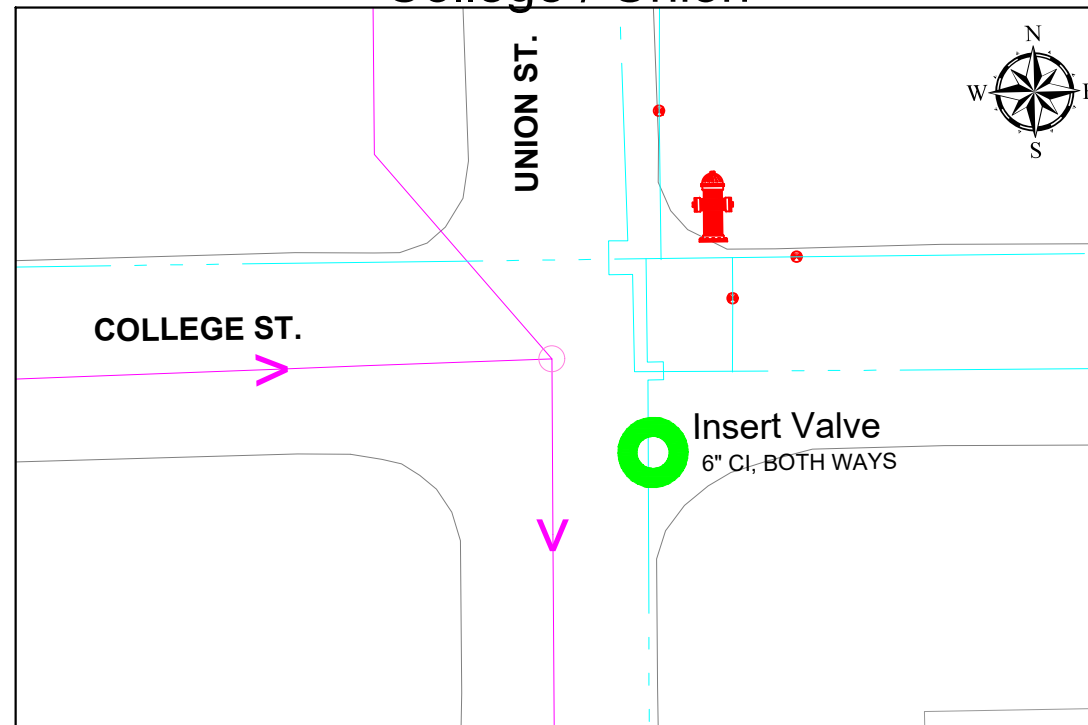
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W11**

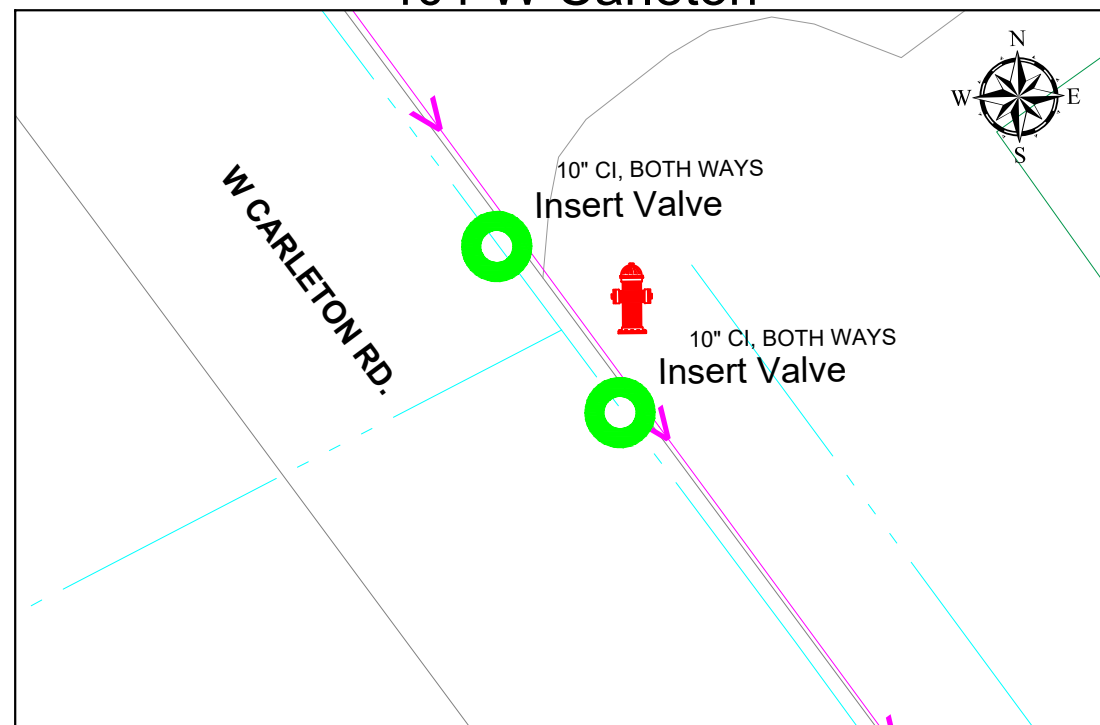
Barr / Mechanic



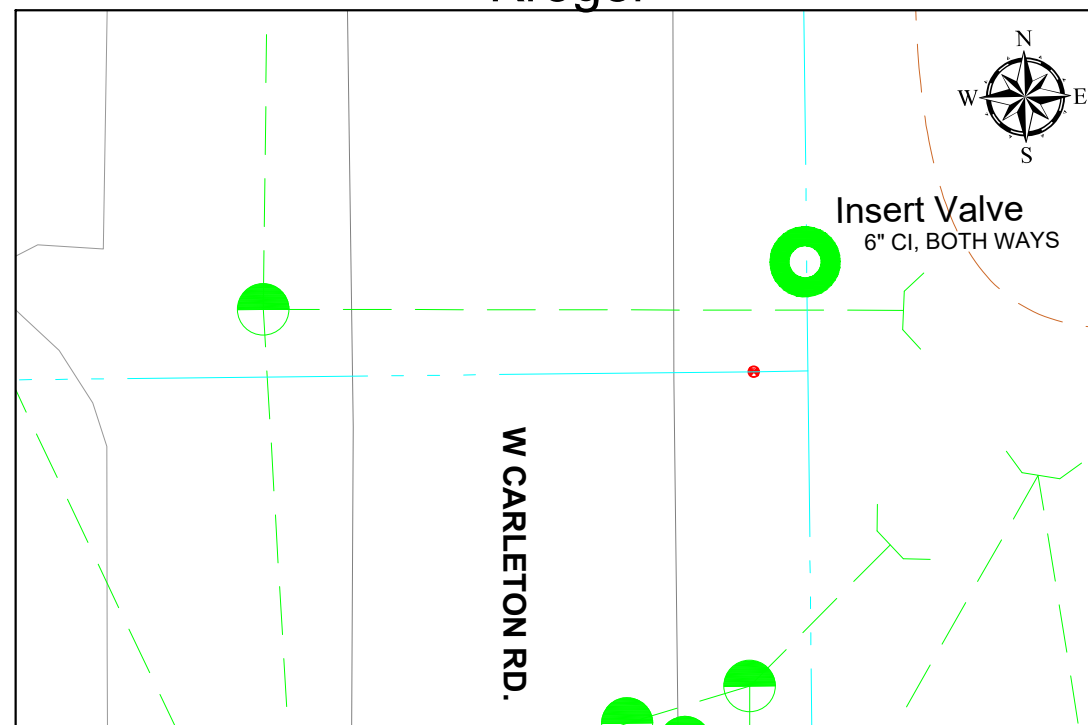
College / Union



401 W Carleton



Kroger



KEY			
SANITARY		VALVE REPLACEMENT LOCATION	
WATER		VALVE INSERT LOCATION	
STORM		VALVE ABANDON LOCATION	

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

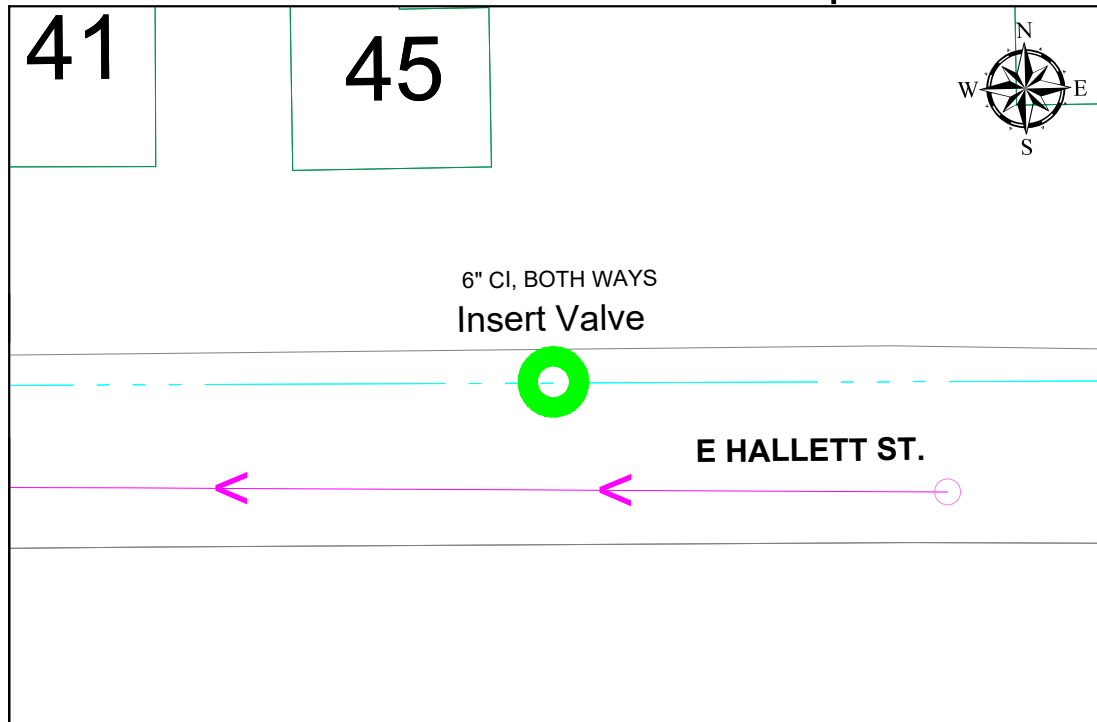
CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
WATER VALVE REPLACEMENTS
VALVE 438 & INSERT VALVES

DRAWING SCALE:
NOT TO SCALE

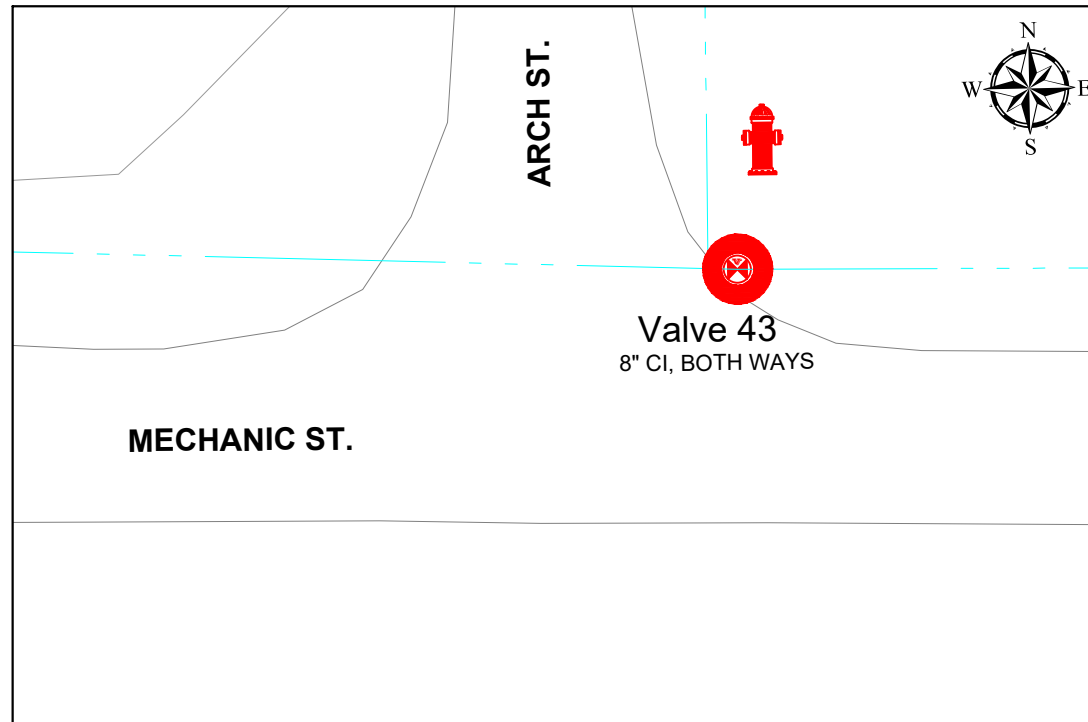
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W12**

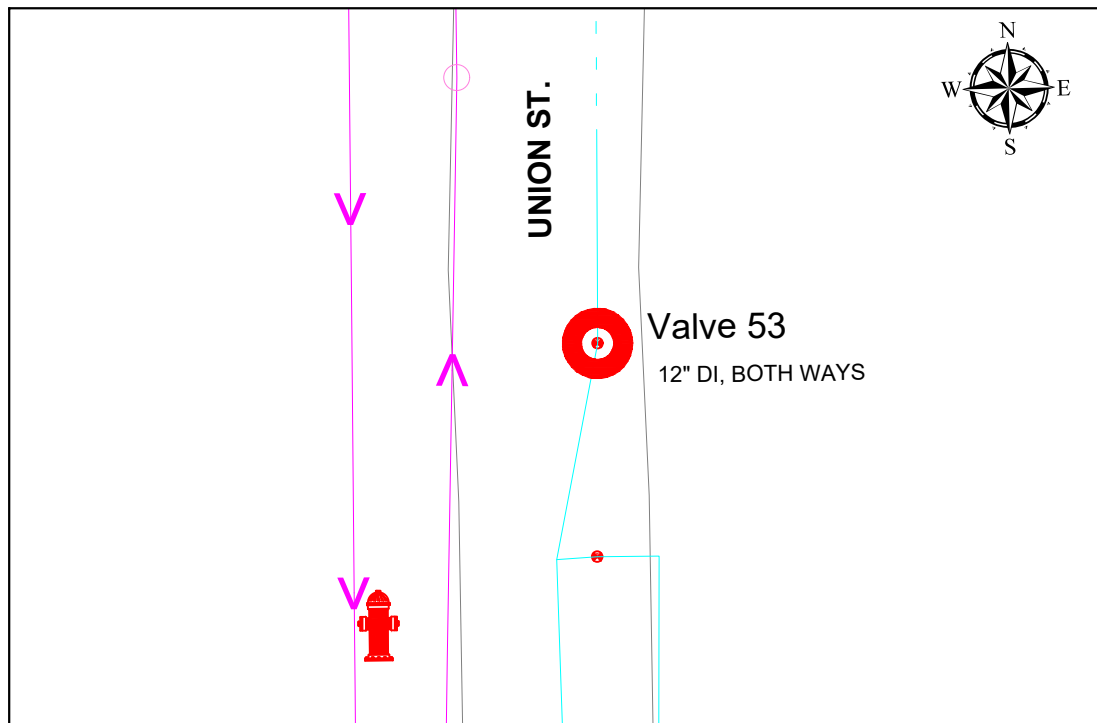
45 E Hallett / North of Hospital



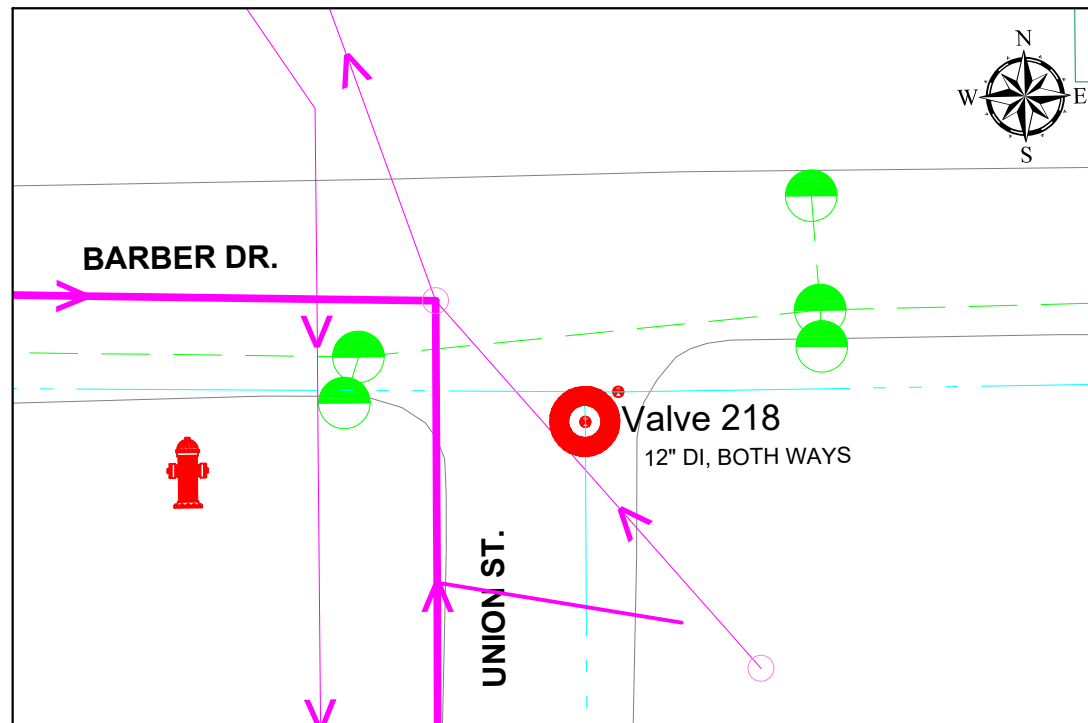
Mechanic / Arch



Between 81 & 250 Union St.



Barber / Union

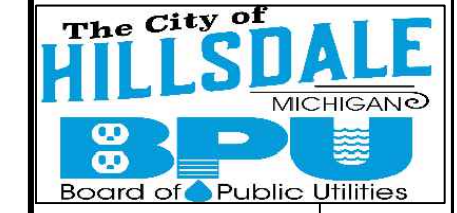


KEY	
SANITARY	→
WATER	- - -
STORM	- - - -
VALVE REPLACEMENT LOCATION	●
VALVE INSERT LOCATION	○
VALVE ABANDON LOCATION	○

REFER TO **W15** FOR TYPICAL CONSTRUCTION DETAILS AND **W16** FOR TRAFFIC CONTROL TYPICALS



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
WATER VALVE REPLACEMENTS

VALVES 43, 53, 218 & INSERT VALVE

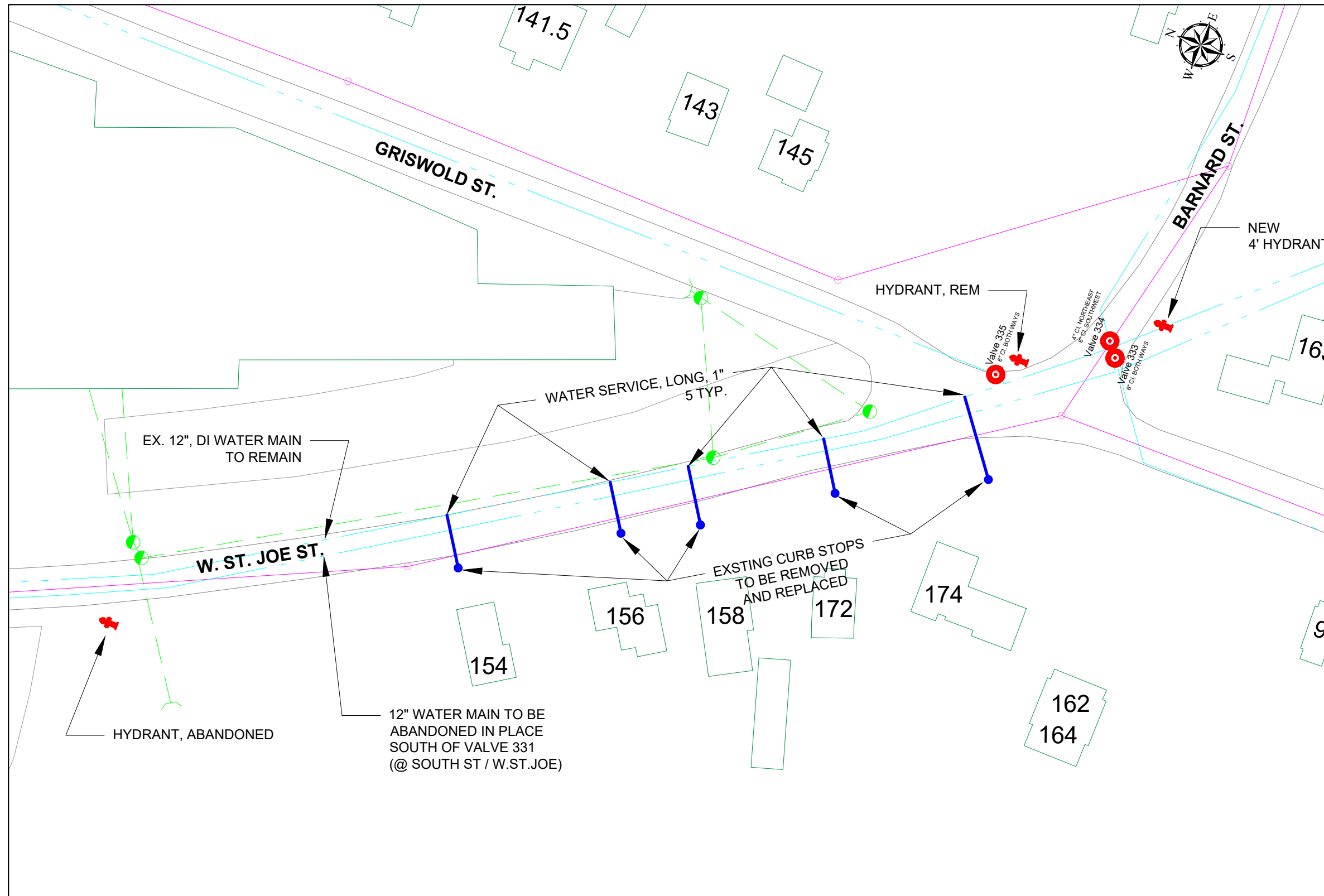
DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **W13**

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
WATER MAIN IMPROVEMENTS
W. ST. JOE STREET
BTWN SOUTH ST. & BARNARD ST.



KEY	
SANITARY	→ → → → →
WATER	- - - - -
STORM	- - - - -
VALVE REPLACEMENT LOCATION	●
VALVE INSERT LOCATION	○
VALVE ABANDON LOCATION	○

REFER TO **W15** FOR TYPICAL
CONSTRUCTION DETAILS AND **W16**
FOR TRAFFIC CONTROL TYPICALS

DRAWING SCALE: NOT TO SCALE		
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23
DRAWING NO.		W14

45 MONROE ST.
HILLSDALE, MI 49242

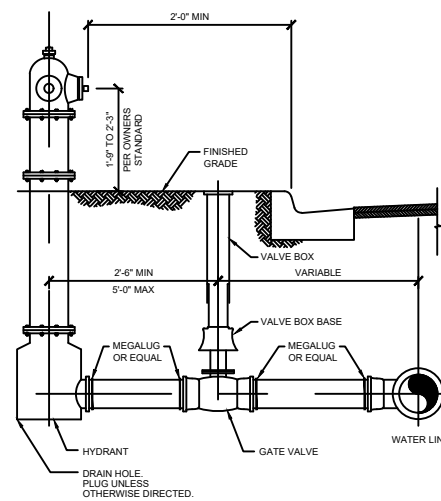
REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
 HILLSDALE, MI
 CITY WIDE
 SEWER MAIN IMPROVEMENTS
 WATER DETAILS TYPICAL

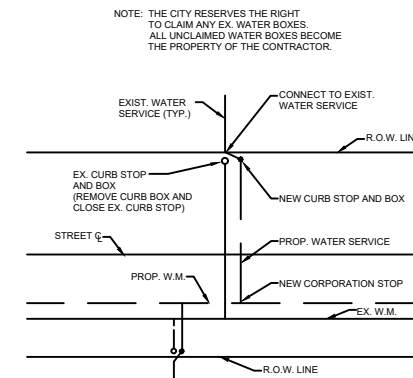
DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

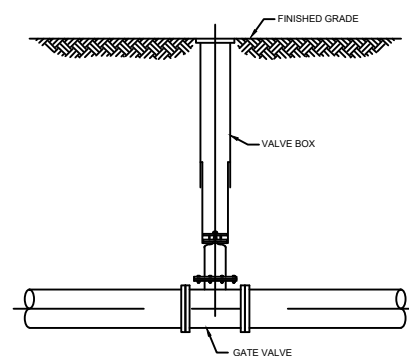
DRAWING NO. **W15**



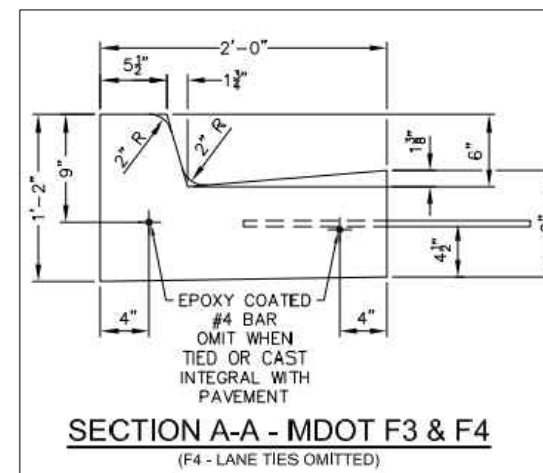
HYDRANT ASSEMBLY
NOT TO SCALE



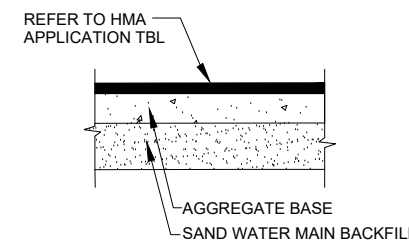
WATER SERVICE CONNECTION DETAIL
NOT TO SCALE



GATE VALVE DETAIL
NOT TO SCALE



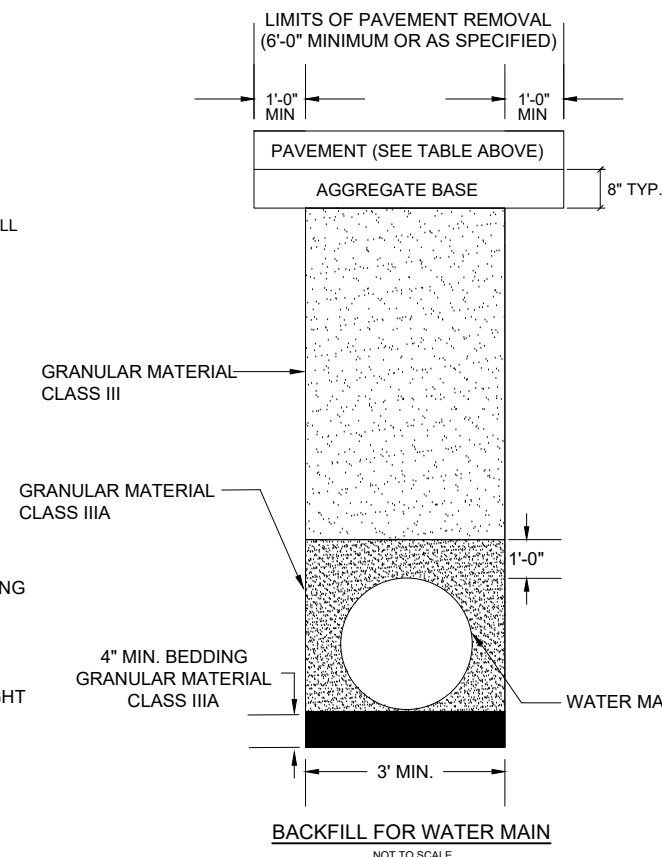
TYPICAL F-4 CURB DETAIL
NOT TO SCALE



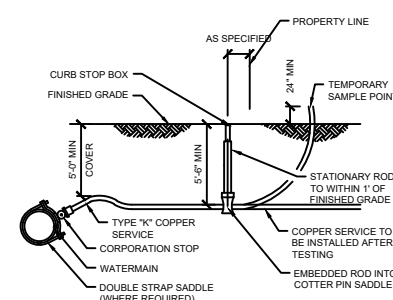
TYPICAL HMA CROSS SECTION
SCALE: NONE

WATER MAIN BACKFILL NOTES:

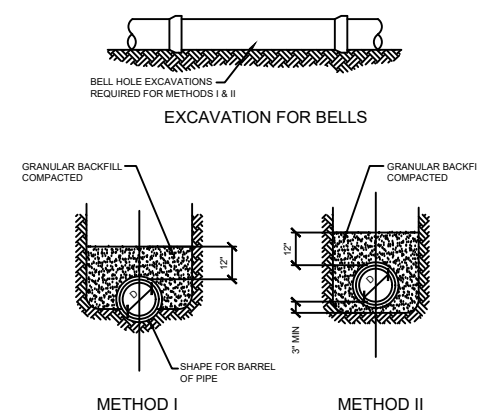
- 1) COMPACT INITIAL BACKFILL MATERIALS IN LIFTS NOT TO EXCEED 6 INCHES BY HAND TAMPING AROUND AND DIRECTLY ABOVE THE PIPE TO MINIMIZE VOIDS.
- 2) DO NOT USE MECHANICAL COMPACTION EQUIPMENT DURING INITIAL BACKFILL OPERATIONS UNTIL MATERIAL HAS BEEN BROUGHT TO 12 INCHES ABOVE THE PIPE BARREL.
- 3) COMPACT SAND BACKFILL AND STANDARD TRENCHES IN LIFTS TO EXCEEDING 12 INCHES.



BACKFILL FOR WATER MAIN
NOT TO SCALE



COPPER SERVICE LEAD CONNECTION/SAMPLE POINT
NOT TO SCALE



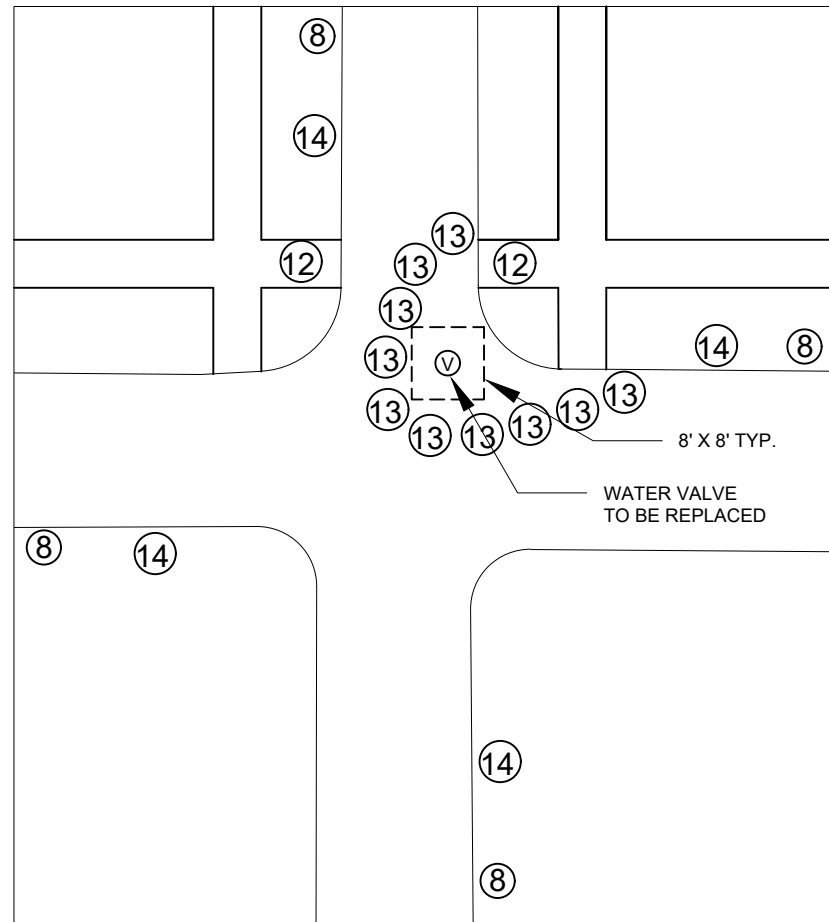
METHODS OF BEDDING PRESSURE PIPE
NOT TO SCALE

PUBLIC UTILITIES: THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THEIR ACCURACY OR THE RESPONSIBILITY IN CASE UTILITIES HAVE BEEN REMOVED OR CONSTRUCTED.

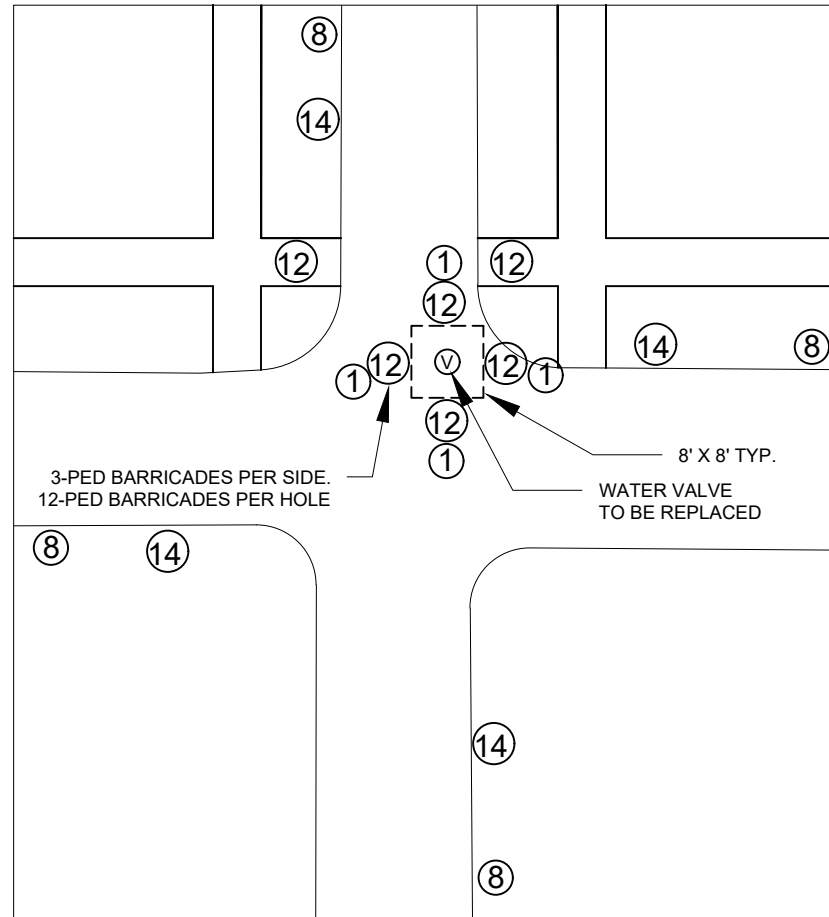
GAS:	MICHIGAN GAS UTILITY 70 SAUK RIVER DRIVE COLDWATER, MI 49036 P - 517-781-0511 ATTN: DONALD SEEKMAN donald.seekman@michiganasutilities.com	ELECTRIC:	CITY OF HILLSDALE BPU 45 MONROE STREET HILLSDALE, MI 49242 P - 517-437-6417 ATTN: JAKE HAMMEL jhammel@hilldalebpu.com
CABLE TELEVISION:	COMCAST 25626 TELEGRAPH RD. SOUTHFIELD, MI 48034 P - 734-359-1669 ATTN: JEFF DOBIES	TELEPHONE:	AT&T 1041 HURST ROAD JACKSON, MI 49201 P - 517-750-0660 ATTN: KAREN TRUDGEN karen.m.trudgen@att.com
WATER/SEWER:	CITY OF HILLSDALE BPU 45 MONROE STREET HILLSDALE, MI 49242 P - 517-437-6412 ATTN: JEFF GIER jgier@hilldalebpu.com	PUBLIC WORKS:	CITY OF HILLSDALE 149 WATER WORKS AVE HILLSDALE, MI 49242 517-437-6491 ATTN: JASON BLAKE jblake@cityofhilldale.org

THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONFLICTS IN GRADE SHALL BE REPORTS TO THE CITY ENGINEER AND ADJUSTMENTS MADE AT NO ADDITIONAL COST TO THE OWNER.

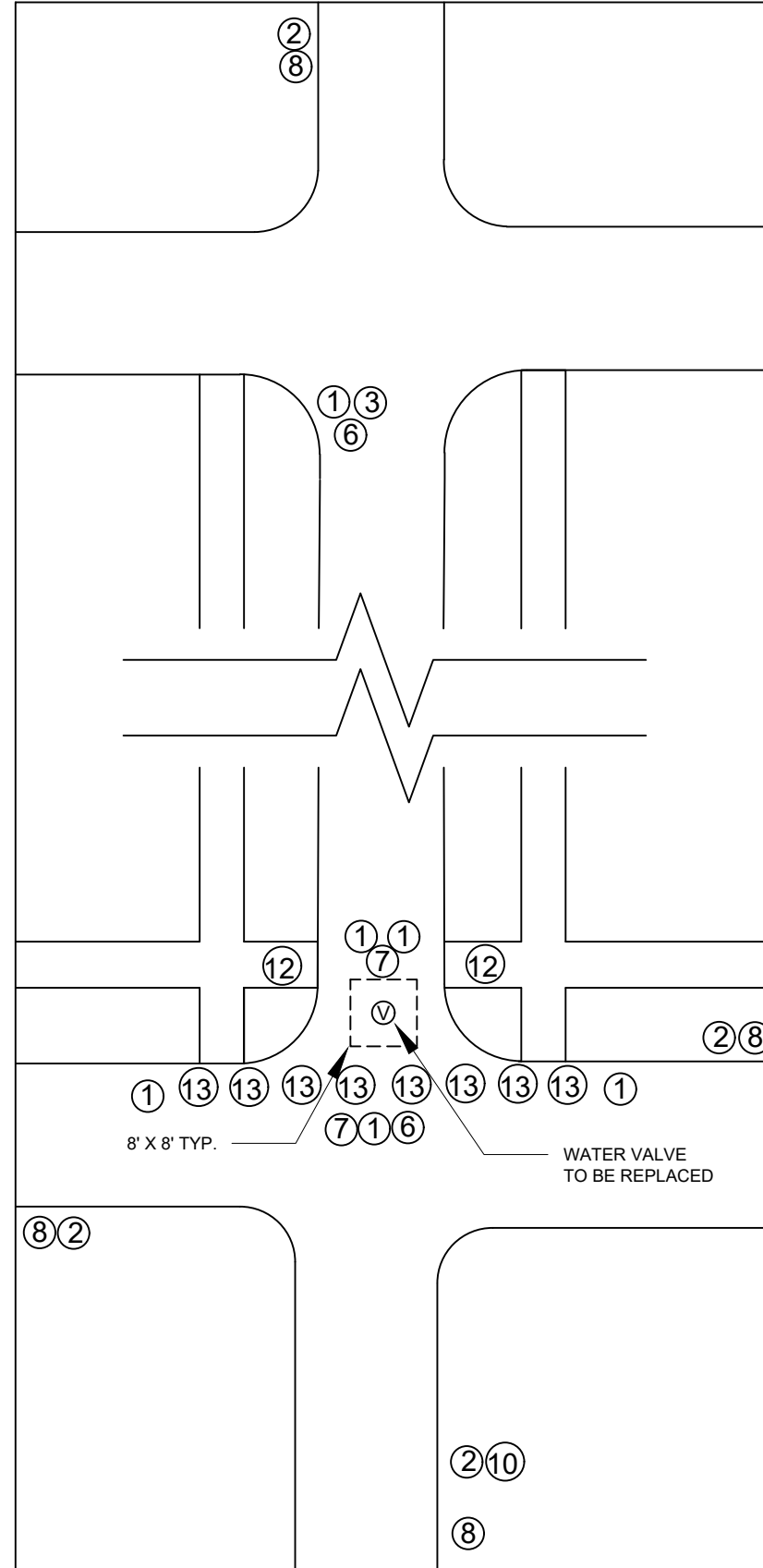
DAILY CLOSURE



OVERNIGHT CLOSURE



WATER DETOUR



TRAFFIC CONTROL KEY

KEY	CODE	SIGN	*QTY
①		TYPE III BARRICADE HIGH INTENSITY, LIGHTED	-
②	W20-3	ROAD CLOSED AHEAD	-
③	R11-4	ROAD CLOSED TO THRU TRAFFIC	-
④	M4-9R	DETOUR ARROW RIGHT	-
⑤	M4-9L	DETOUR ARROW LEFT	-
⑥	M4-10D	DETOUR ARROW DOUBLE	-
⑦	R11-2	ROAD CLOSED	-
⑧	W20-1	ROAD WORK AHEAD	-
⑨	M4-9S	DETOUR STRAIGHT	-
⑩	W20-2	DETOUR AHEAD	-
⑪	M4-8A	DETOUR ENDS	-
⑫		PED BARRICADE	-
⑬		BARRELS OR GRABBER CONES	-
⑭	W20-4	ONE LANE ROAD AHEAD, MAJOR STREETS	-

* QUANTITIES ARE MINIMUM REQUIRED. CONTRACTOR MAY INCREASE AS NEEDED FOR THEIR CONSTRUCTION PLANS. LIGHTED BARRELS AND/OR GRABBER CONES WILL BE NEEDED FOR FLAG CONTROL ZONES AND OVER NIGHT ONE LANE SECTIONS.

PROJECT NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE MDOT 2012 STANDARD SPECIFICATION FOR CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

45 MONROE ST.
HILLSDALE, MI 49242

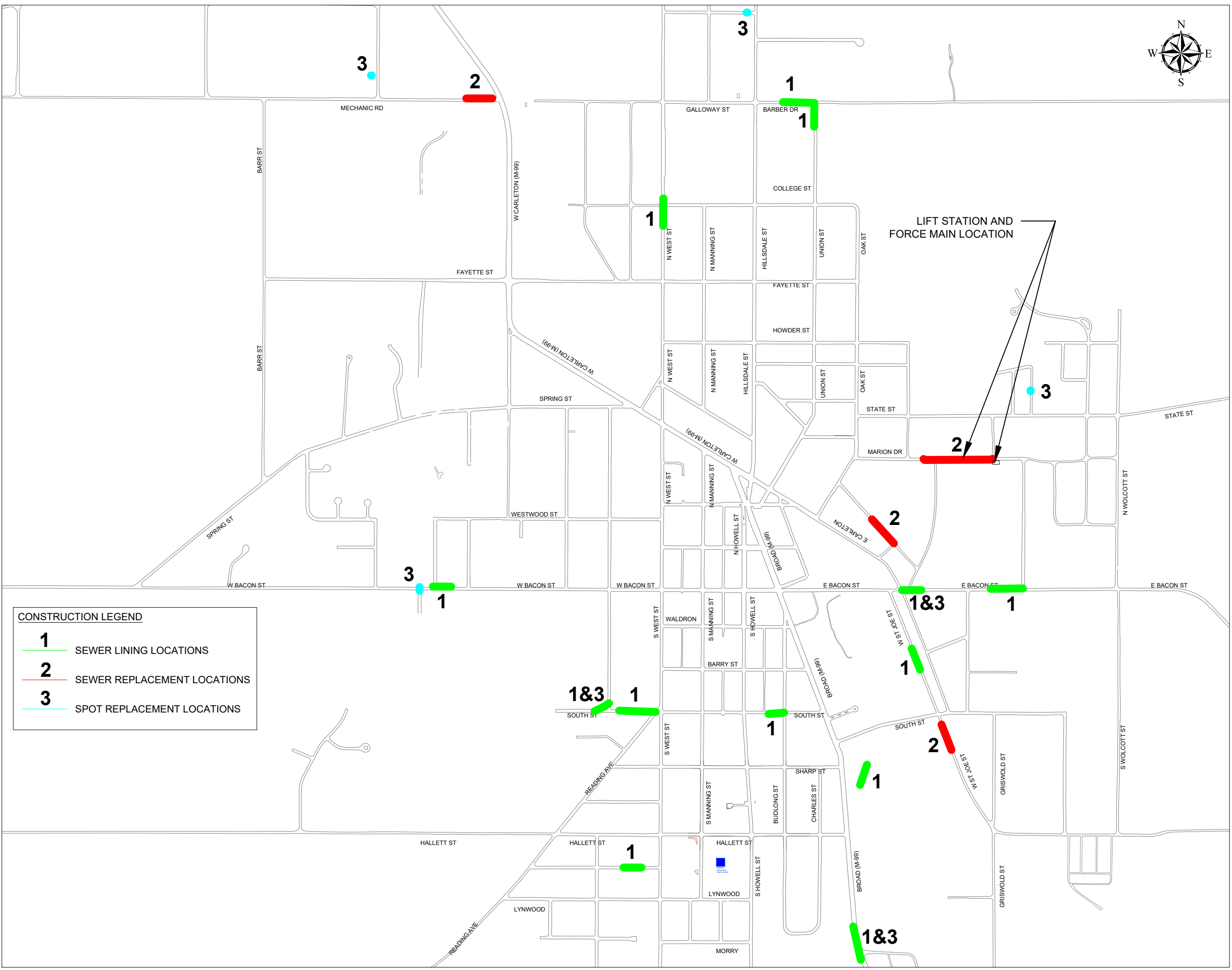
REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
WATER VALVE REPLACEMENTS
WATER VALVE REPLACEMENT
TRAFFIC CONTROL TYPICALS

DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JB	01/06/23

DRAWING NO. **W16**



CONSTRUCTION LEGEND

1	SEWER LINING LOCATIONS
2	SEWER REPLACEMENT LOCATIONS
3	SPOT REPLACEMENT LOCATIONS

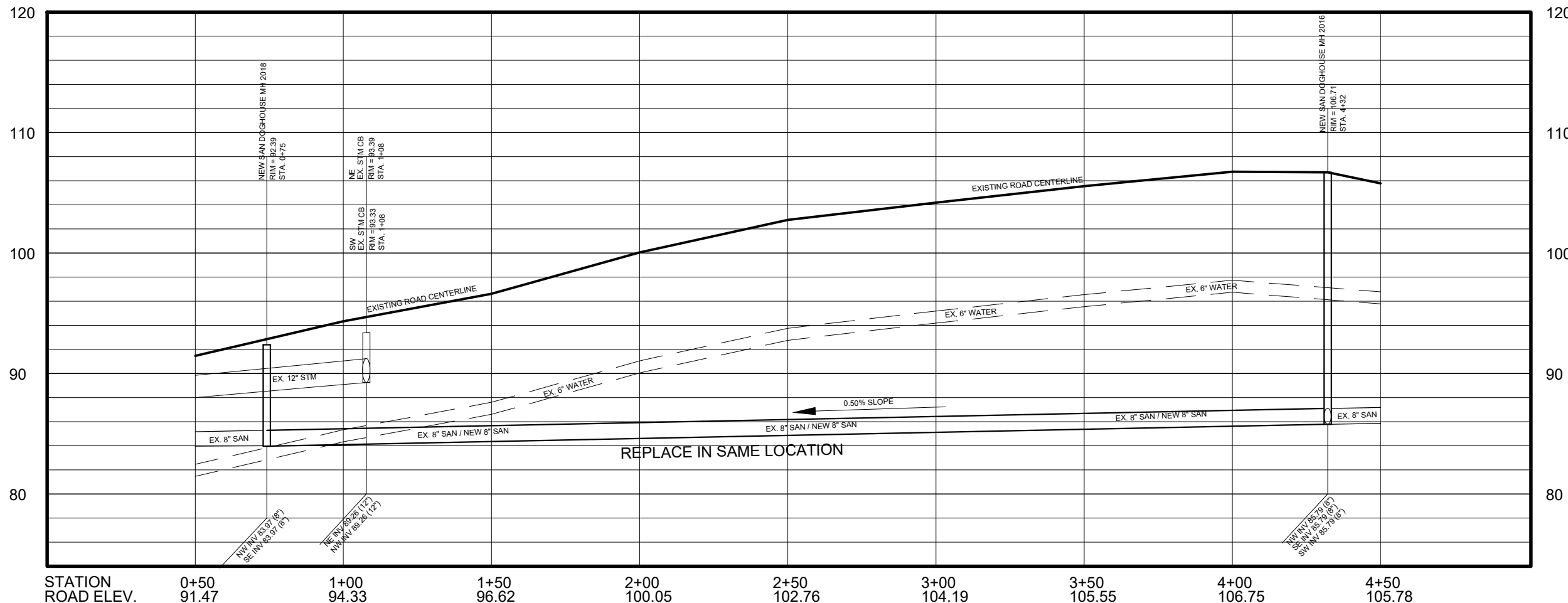
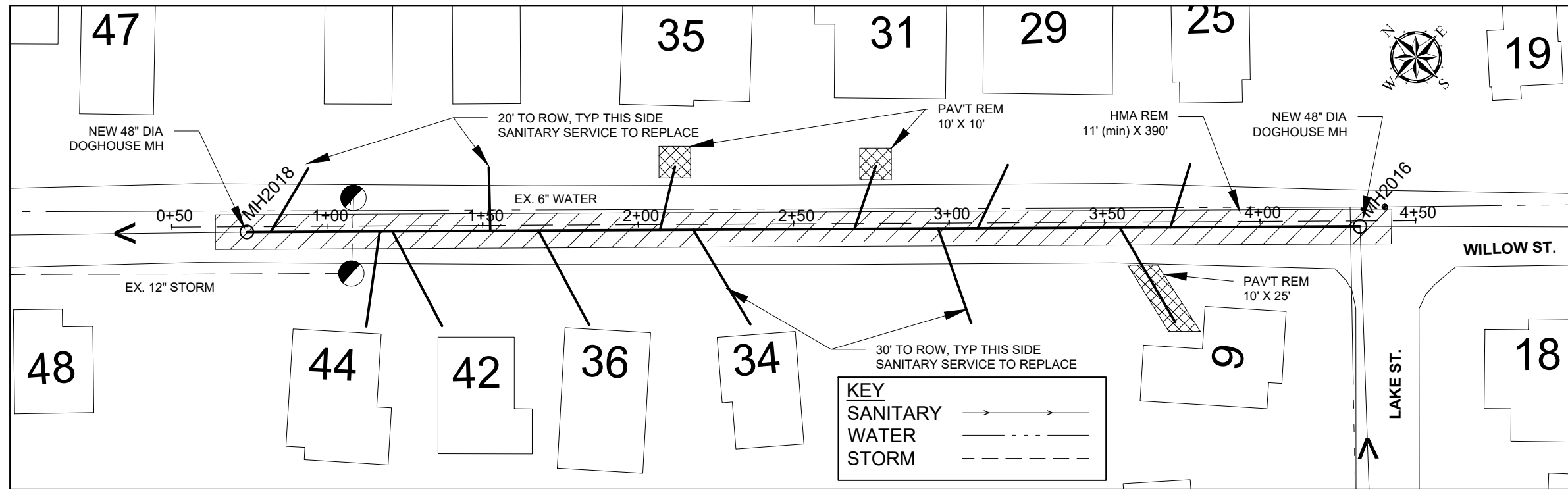
45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

**CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
WATER MAIN IMPROVEMENTS
SANITARY SEWER WORK LOCATIONS**

SCALE		
NTS		
	NAME	DATE
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO.
SAN L



STATION	0+50	1+00	1+50	2+00	2+50	3+00	3+50	4+00	4+50
ROAD ELEV.	91.47	94.33	96.62	100.05	102.76	104.19	105.55	106.75	105.78

REFER TO **SAN 11** FOR CONSTRUCTION DETAILS AND **SAN 12** FOR TRAFFIC CONTROL DETAILS.

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
WILLOW ST. - PLAN AND PROFILE
MH2016 TO MH2018

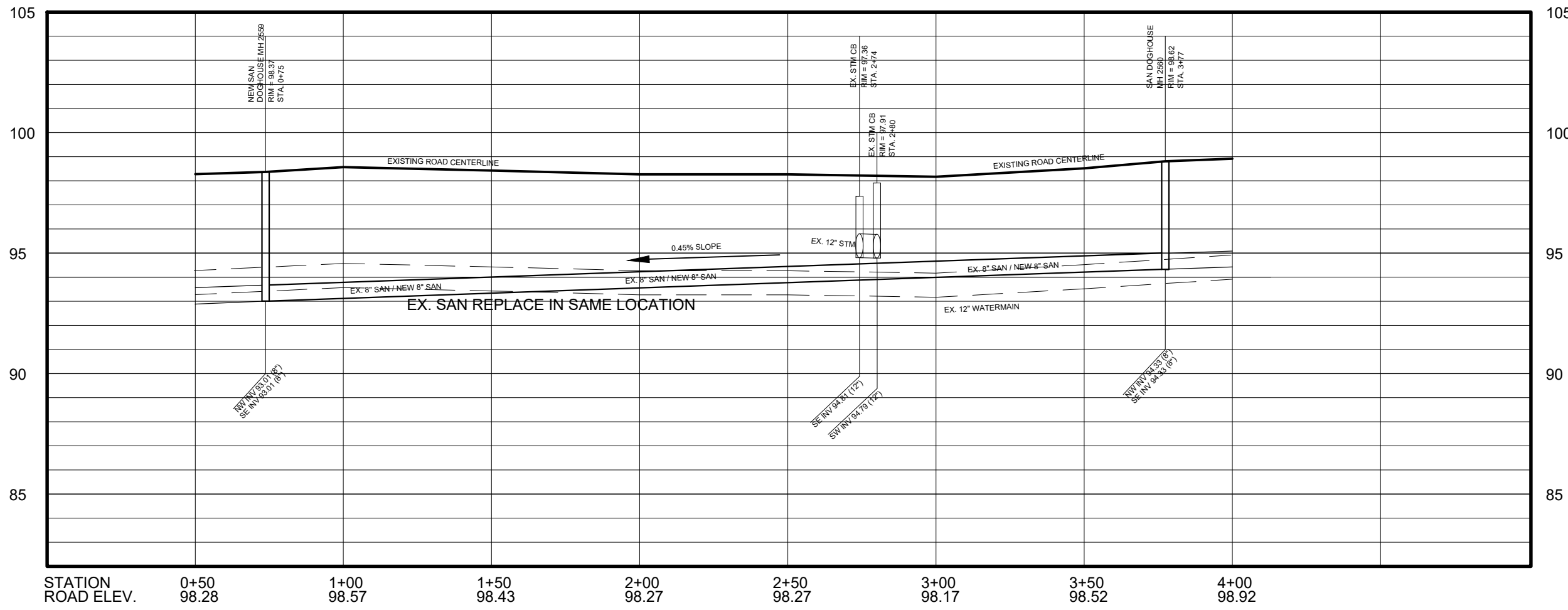
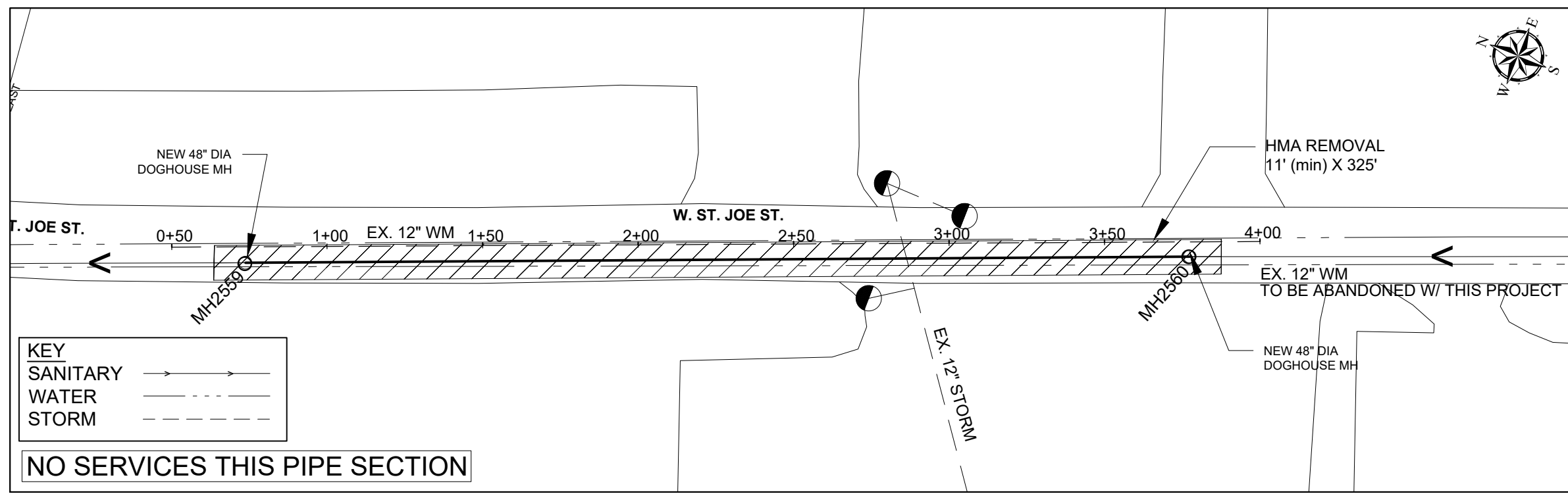
DRAWING SCALE:
VERT: 1" = 10' HORIZ: 1" = 40'

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **SAN 1**

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23



REFER TO **SAN 11** FOR CONSTRUCTION DETAILS AND **SAN 12** FOR TRAFFIC CONTROL DETAILS.

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
W. ST. JOE ST. - PLAN AND PROFILE
MH2559 TO MH2560

DRAWING SCALE:
VERT: 1" = 5' HORIZ: 1" = 40'

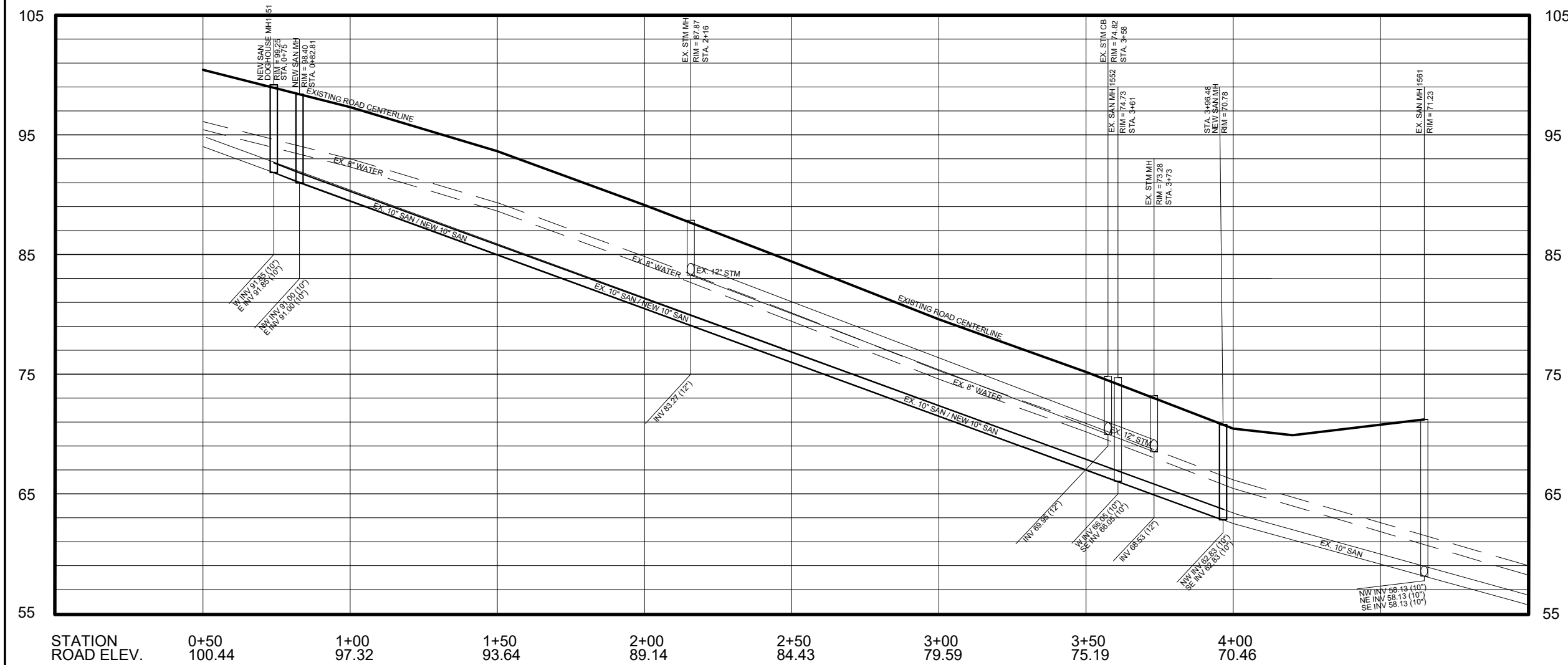
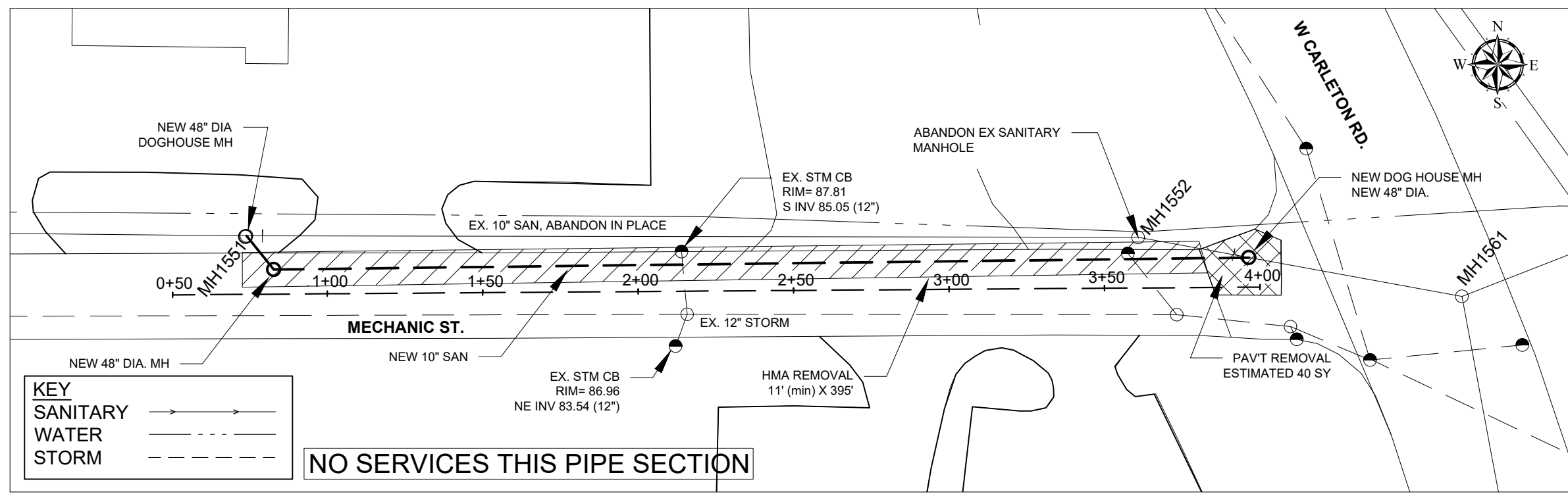
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING NO. **SAN 2**

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
MECHANIC ST. - PLAN AND PROFILE
MH1551 TO MH1561



REFER TO **SAN 11** FOR CONSTRUCTION
DETAILS AND **SAN 13** FOR TRAFFIC
CONTROL DETAILS.

DRAWING SCALE:
VERT: 1" = 10' HORIZ: 1" = 40'

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

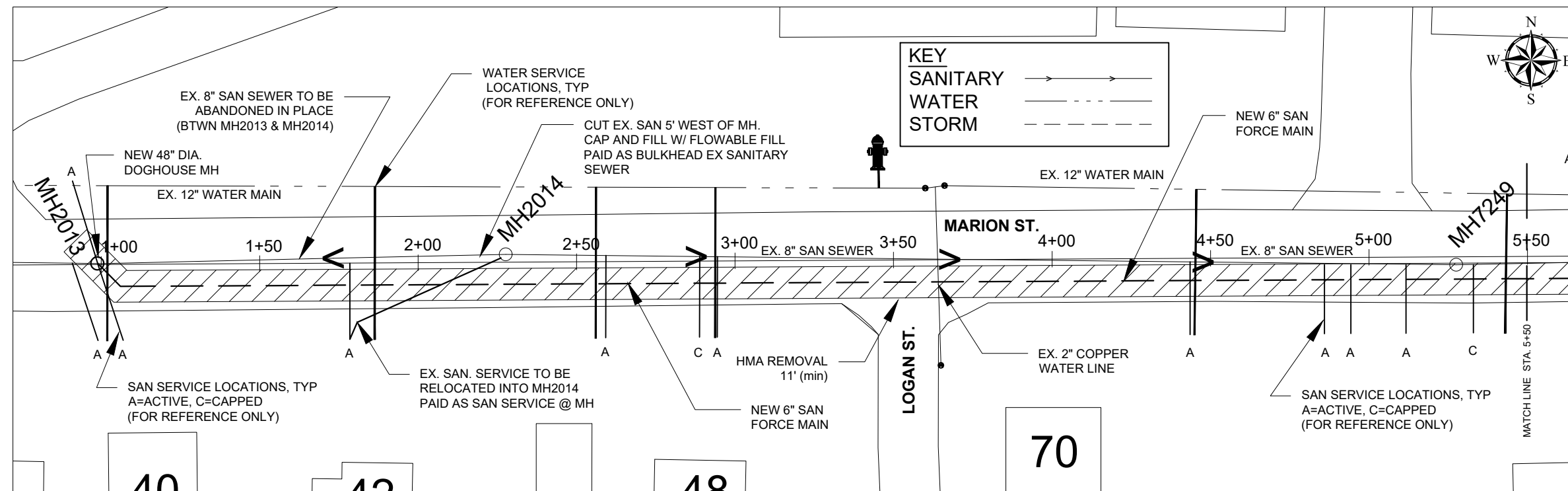
DRAWING NO. **SAN 3**

45 MONROE ST.
HILLSDALE, MI 49242

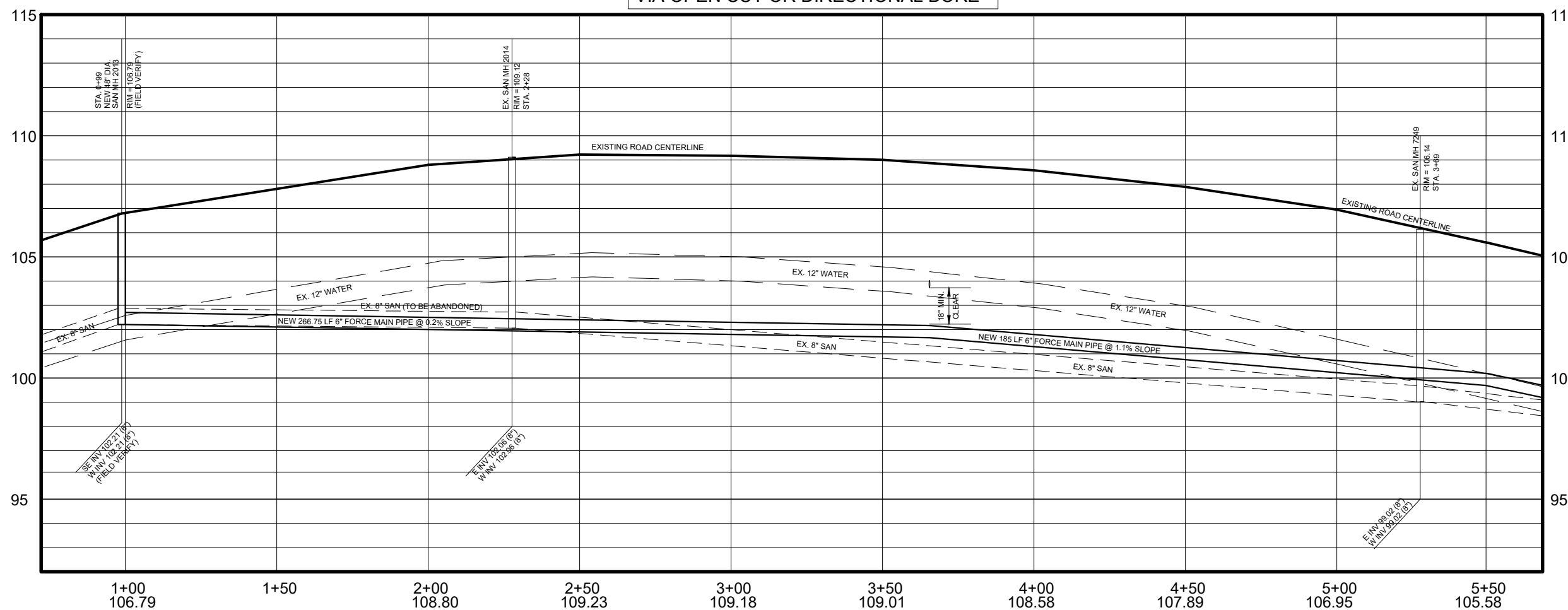
REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS

MARION ST. - PLAN AND PROFILE
MH2013 TO STA. 5+50



FORCE MAIN CAN BE CONSTRUCTED
VIA OPEN CUT OR DIRECTIONAL BORE



REFER TO **SAN 11** FOR CONSTRUCTION
DETAILS AND **SAN 14** FOR TRAFFIC
CONTROL DETAILS.

DRAWING SCALE:
VERT: 1" = 5' HORIZ: 1" = 40'

DESIGNED	KLB	02/03/23
DRAWN	KLB	02/03/23
CHECKED	JG	02/06/23

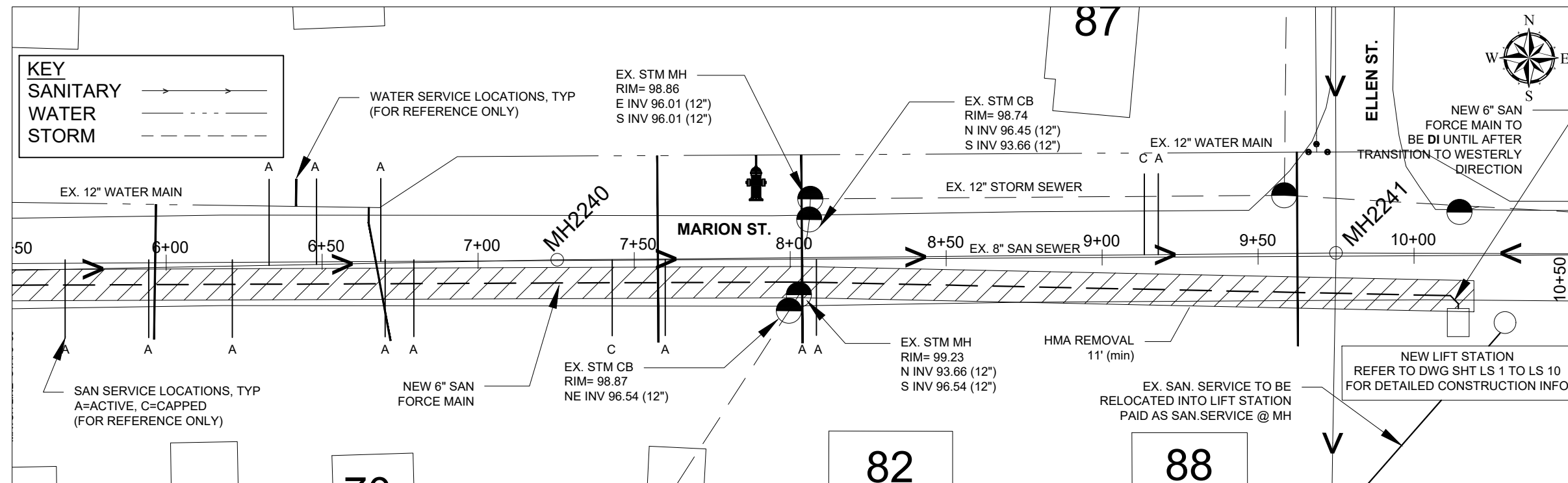
DRAWING NO. **SAN 4**

45 MONROE ST.
HILLSDALE, MI 49242

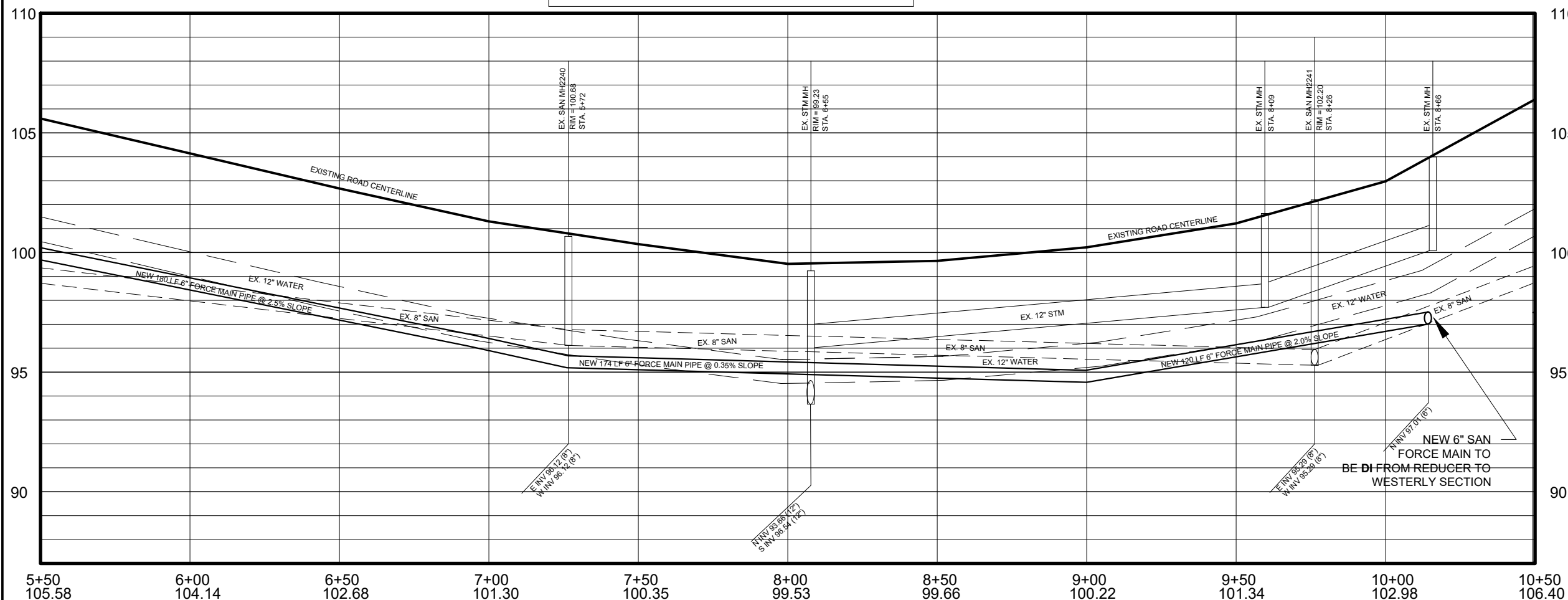
REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS

MARION ST. - PLAN AND PROFILE
STA. 5+50 TO NEW LIFT STATION



FORCE MAIN CAN BE CONSTRUCTED
VIA OPEN CUT OR DIRECTIONAL BORE



REFER TO **SAN 11** FOR CONSTRUCTION
DETAILS AND **SAN 14** FOR TRAFFIC
CONTROL DETAILS.

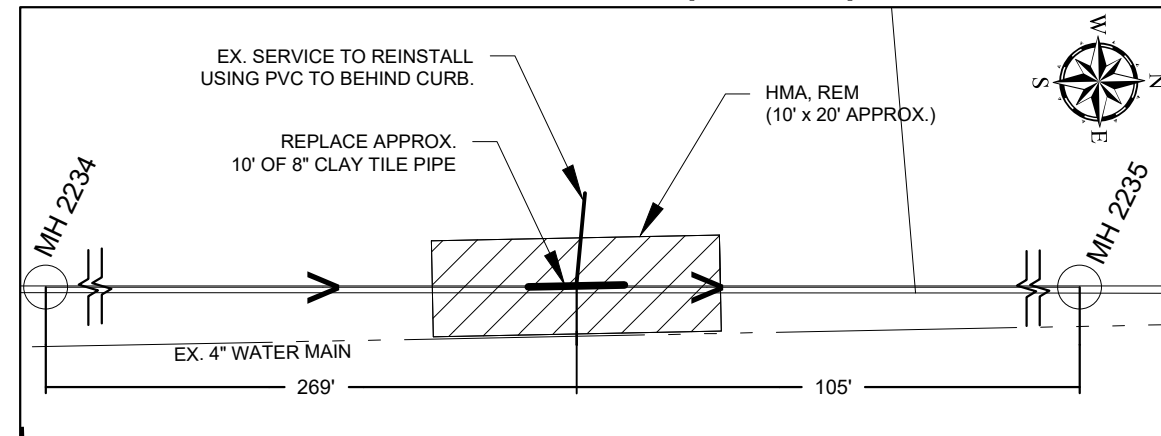
DRAWING SCALE:
VERT: 1" = 5' HORIZ: 1" = 40'

DESIGNED	KLB	02/03/23
DRAWN	KLB	02/03/23
CHECKED	JG	02/06/23

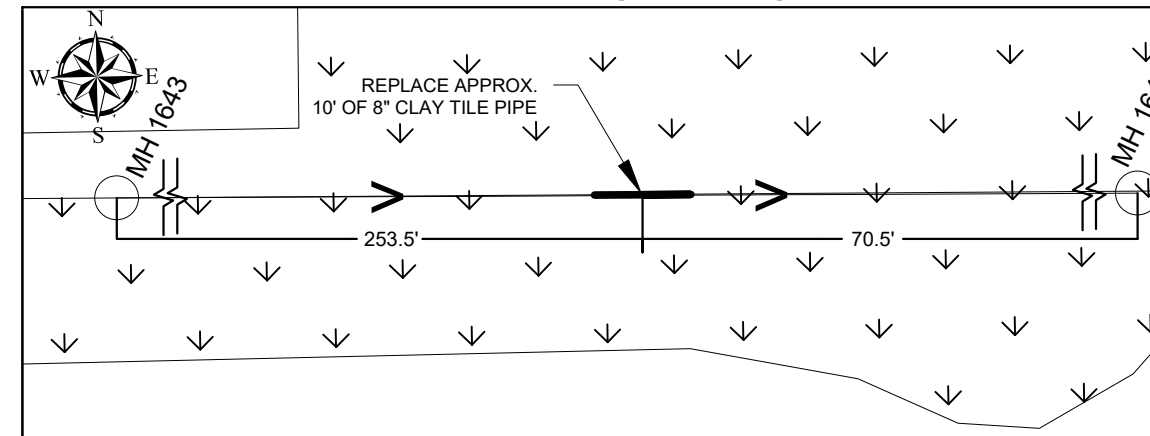
DRAWING NO. **SAN 5**

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

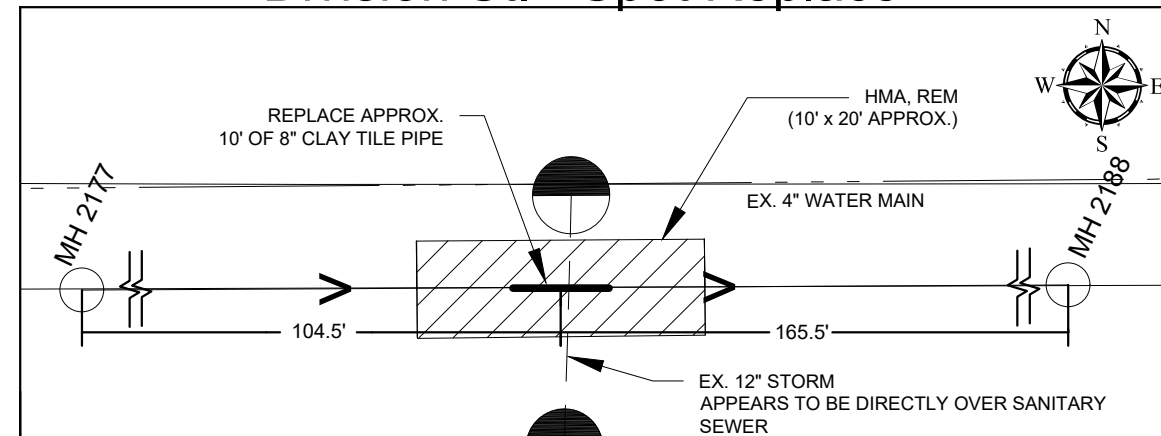
Buena Vista Dr. - Spot Replace



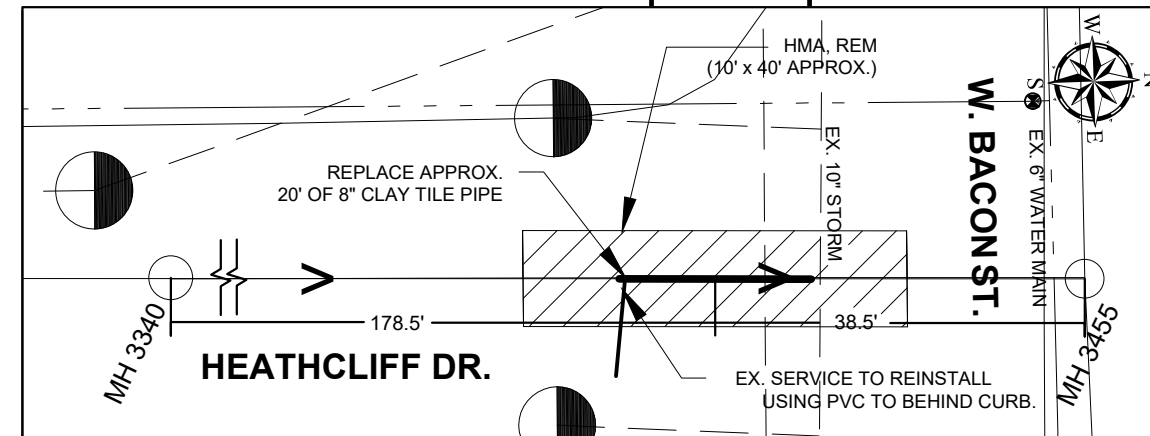
Arch Ave. - Spot Replace



Division St. - Spot Replace



Heathcliff Dr. - Spot Replace



NOTES THIS PAGE:

- 1.) REPLACE SECTIONS FROM JOINT TO JOINT
- 2.) UTILIZE "FURNCO" OR SIMILAR AT REPLACEMENT JOINTS

KEY	
SANITARY	→ → → →
WATER	- - - - -
STORM	- - - - -
GRASS	∨

REFER TO **SAN 11** FOR CONSTRUCTION DETAILS AND **SAN 15** FOR TRAFFIC CONTROL DETAILS.

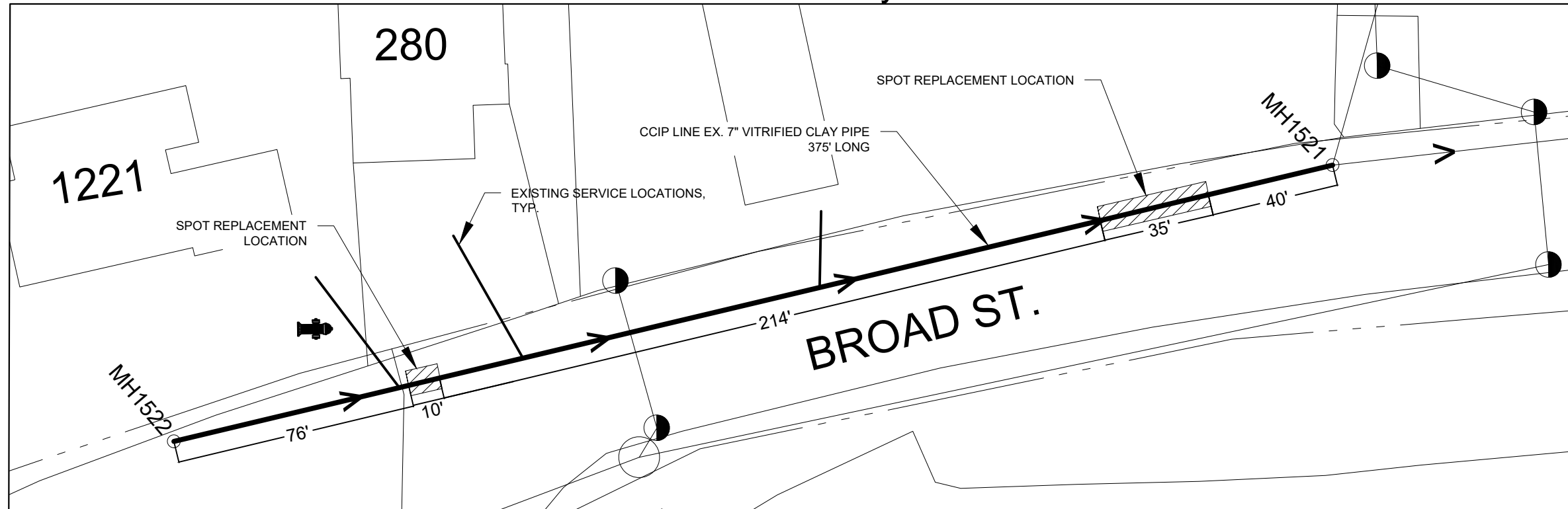
CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
SPOT REPLACEMENT LOCATIONS

DRAWING SCALE:
NOT TO SCALE

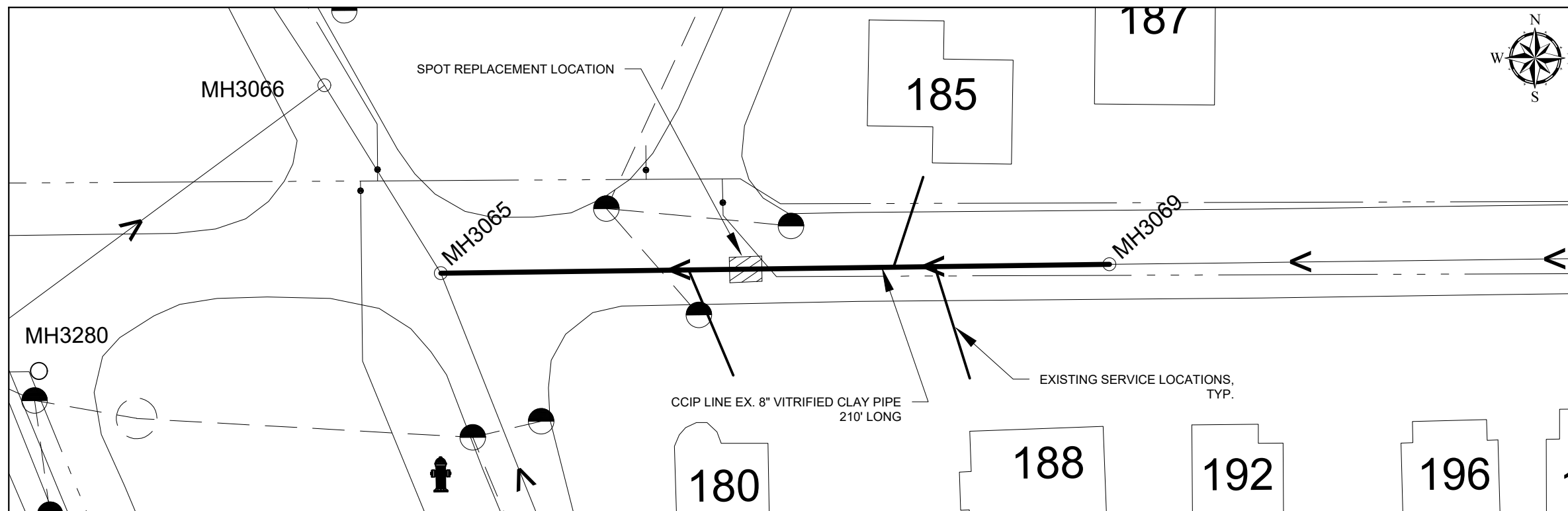
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING
SAN 6

Hallett to South City Limits



Carleton to Griswold



NOTES THIS PAGE:

- 1.) REPLACE SECTIONS FROM JOINT TO JOINT.
- 2.) UTILIZE "FURNCO" OR SIMILAR AT REPLACEMENT JOINTS.
- 3.) CONTRACTOR SHALL VERIFY PIPE SIZE AND LENGTH BEFORE PREPARING CIPP LINING MATERIALS.
- 4.) CONTRACTOR SHALL VERIFY ACTIVE SERVICE LINES TO BE RE-ESTABLISHED.

KEY	
SANITARY	—————>
WATER	- - - - -
STORM	- - - - -

REFER TO **SAN 11** FOR CONSTRUCTION DETAILS AND **SAN 15** FOR TRAFFIC CONTROL DETAILS.

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
 HILLSDALE, MI
 CITY WIDE
 SEWER MAIN IMPROVEMENTS
 SPOT REPLACEMENTS & CCIP LINING

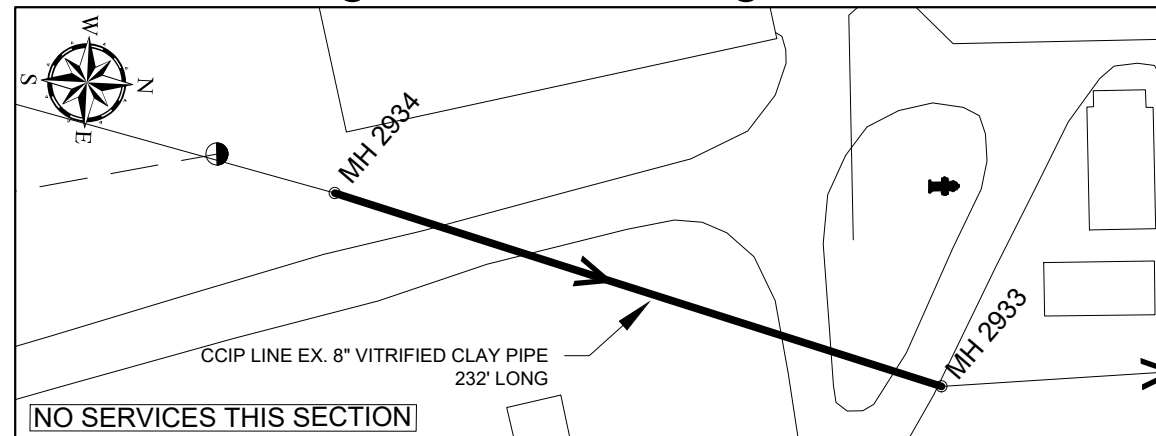
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DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

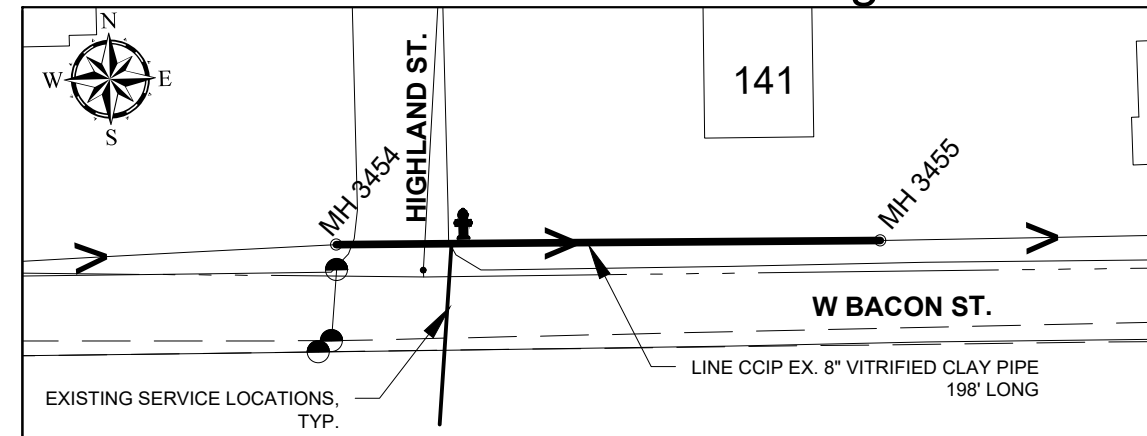
DRAWING
SAN 7

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

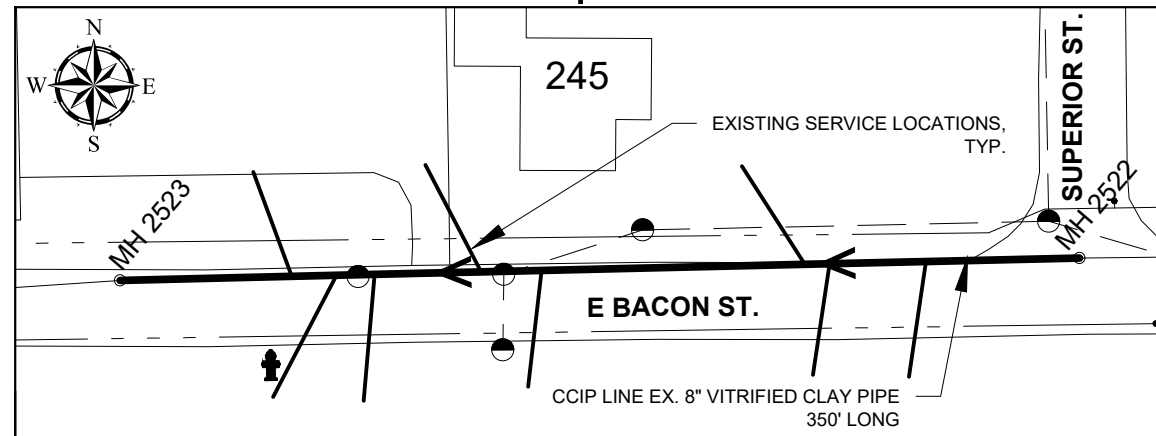
Fairgrounds - In Fairgrounds



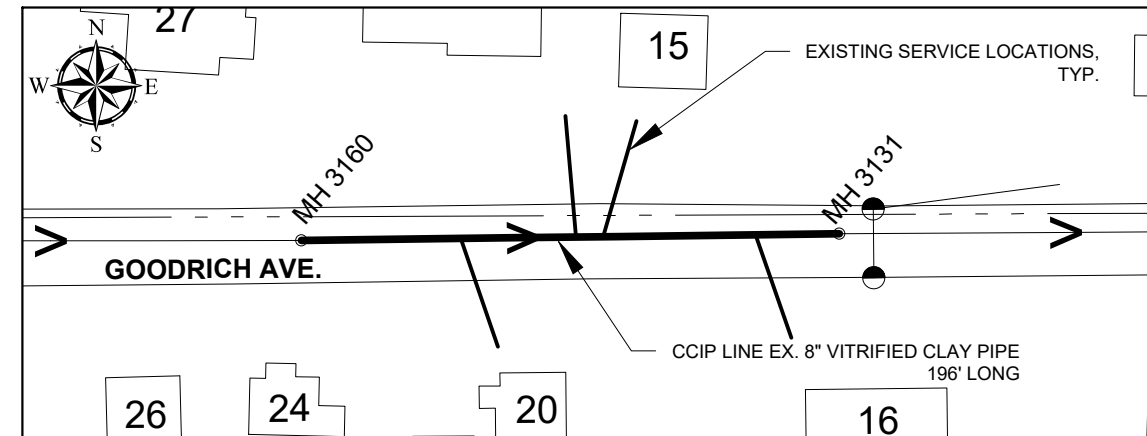
W Bacon St. - Glendale to Highland



E Bacon St. - Superior to Griswold



Goodrich Ave. - West to Rea



NOTES THIS PAGE:

- 1.) CONTRACTOR SHALL VERIFY PIPE SIZE AND LENGTH BEFORE PREPARING CIPP LINING MATERIALS.
- 2.) CONTRACTOR SHALL VERIFY ACTIVE SERVICE LINES TO BE RE-ESTABLISHED.

KEY	
SANITARY	—————>
WATER	-----
STORM	-----

REFER TO **SAN 11** FOR CONSTRUCTION DETAILS AND **SAN 15** FOR TRAFFIC CONTROL DETAILS.

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
SEWER MAIN IMPROVEMENTS

CCIP LINING LOCATIONS

DRAWING SCALE:
NOT TO SCALE

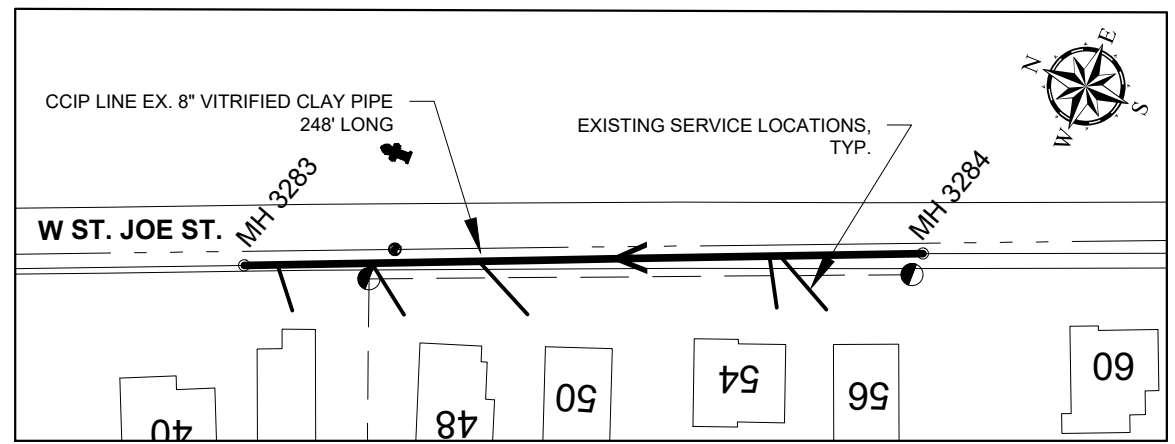
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING **SAN 8**

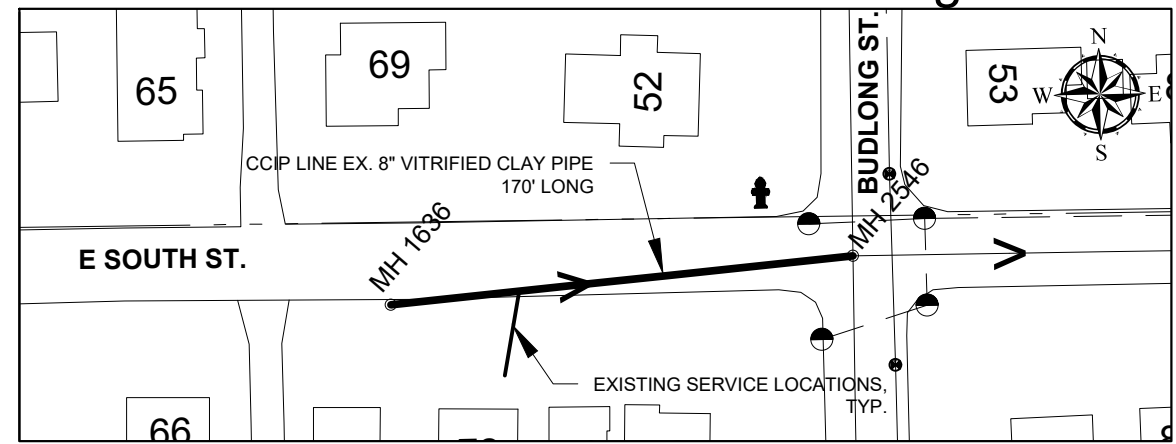
45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

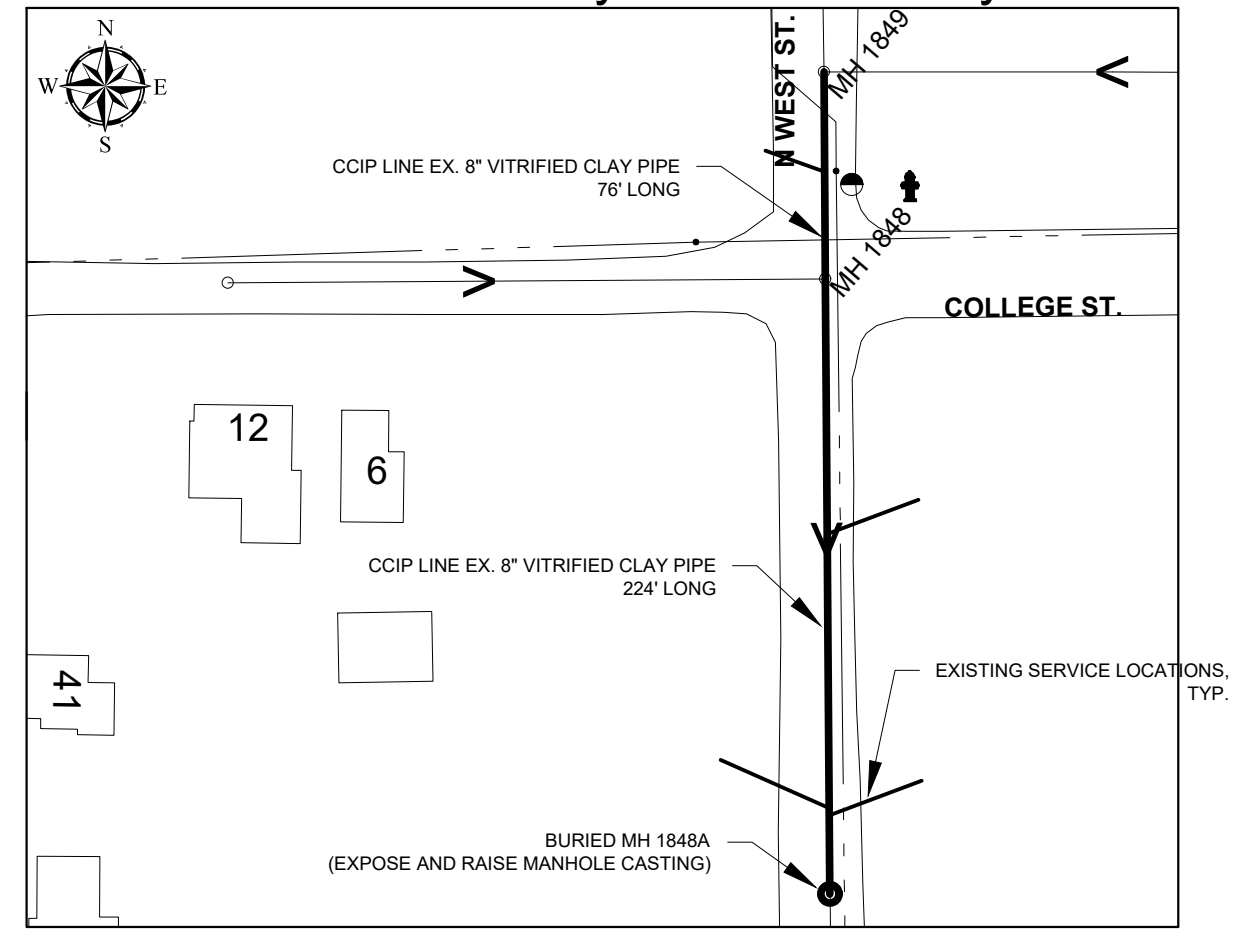
W St. Joe St. - South to Bacon



E South St. - Howell to Budlong



N West St. - Fayette to Galloway



NOTES THIS PAGE:

- 1.) CONTRACTOR SHALL VERIFY PIPE SIZE AND LENGTH BEFORE PREPARING CIPP LINING MATERIALS.
- 2) CONTRACTOR SHALL VERIFY ACTIVE SERVICE LINES TO BE RE-ESTABLISHED.

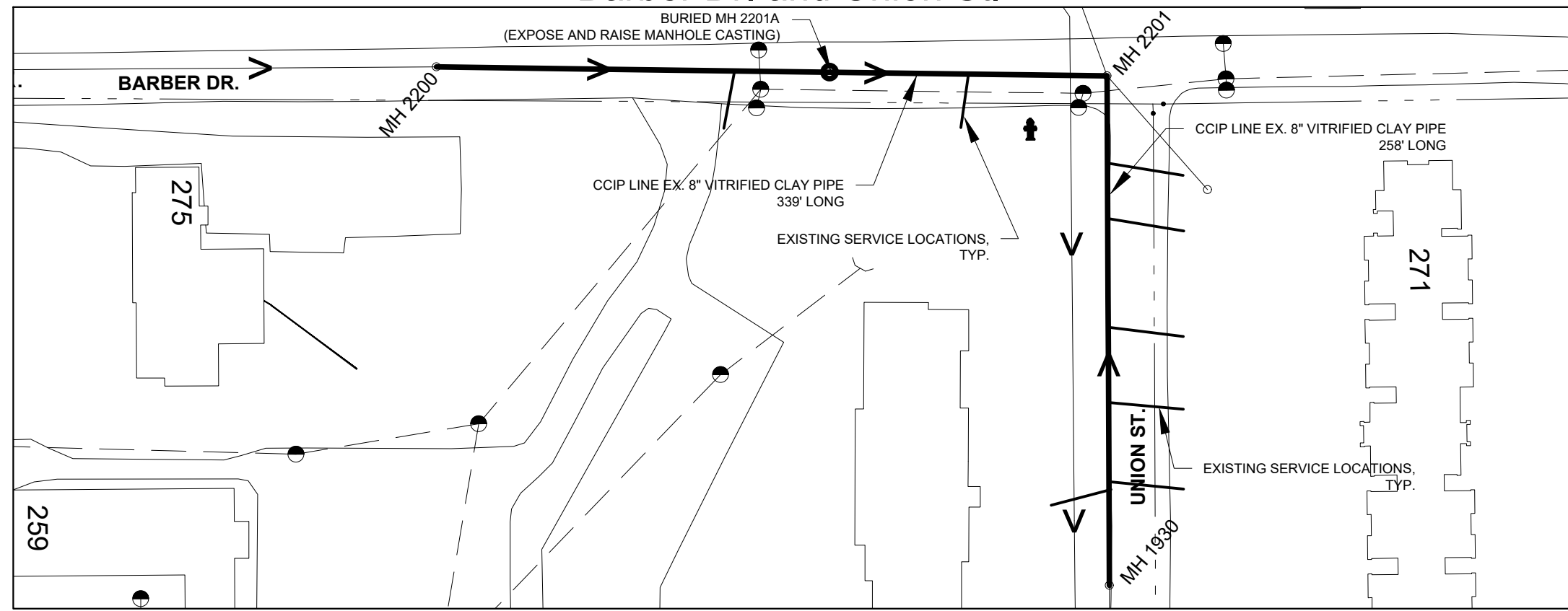
KEY	
SANITARY	→ → → →
WATER	- - - - -
STORM	- - - - -

REFER TO **SAN 11** FOR CONSTRUCTION DETAILS AND **SAN 15** FOR TRAFFIC CONTROL DETAILS.

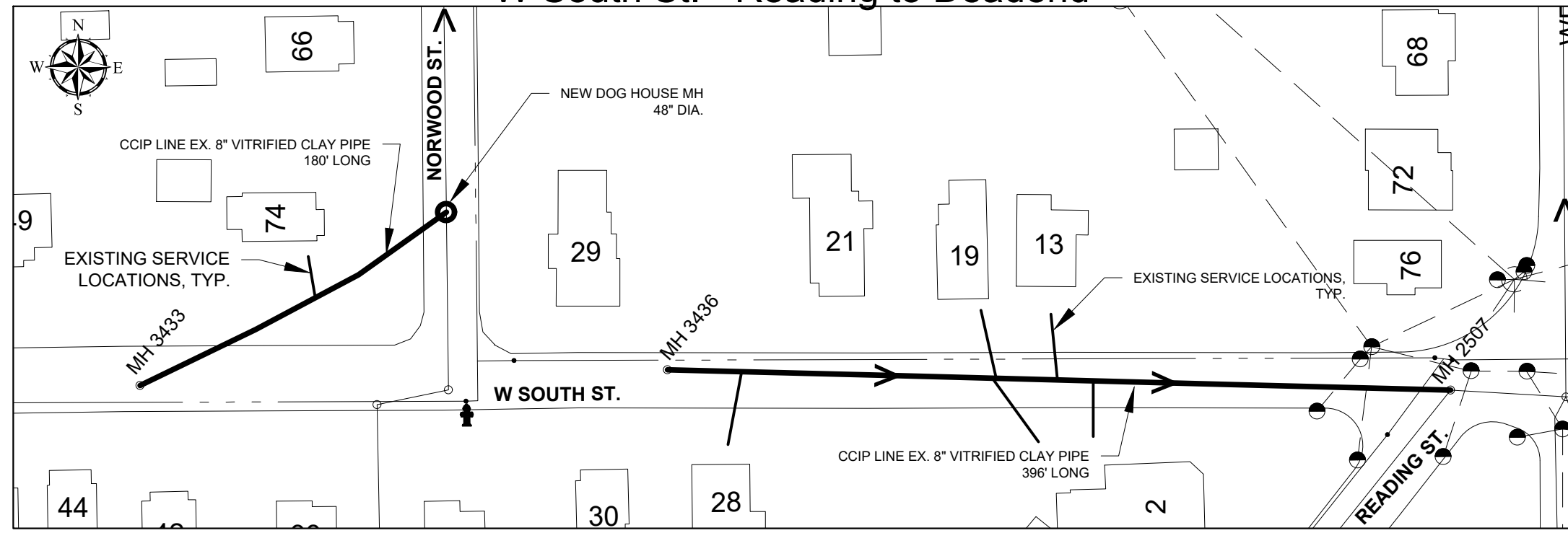
CITY OF HILLSDALE
 HILLSDALE, MI
 CITY WIDE
 SEWER MAIN IMPROVEMENTS
 CCIP LINING LOCATIONS

DRAWING SCALE: NOT TO SCALE		
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23
DRAWING		SAN 9

Barber Dr. and Union St.

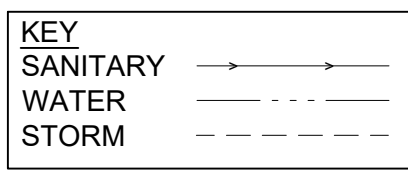


W South St. - Reading to Deadend



NOTES THIS PAGE:

- 1.) CONTRACTOR SHALL VERIFY PIPE SIZE AND LENGTH BEFORE PREPARING CIPP LINING MATERIALS.
- 2.) CONTRACTOR SHALL VERIFY ACTIVE SERVICE LINES TO BE RE-ESTABLISHED.



REFER TO **SAN 11** FOR CONSTRUCTION DETAILS AND **SAN 15** FOR TRAFFIC CONTROL DETAILS.



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
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CITY OF HILLSDALE
 HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
 LINING LOCATIONS

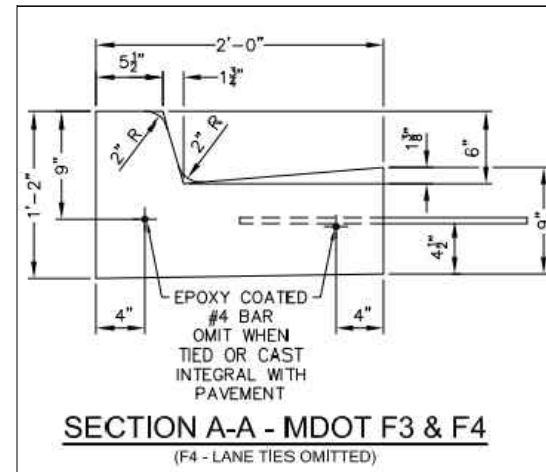
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DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

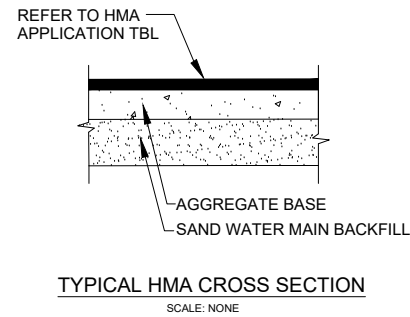
DRAWING **SAN 10**

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
SANITARY DETAILS TYPICAL

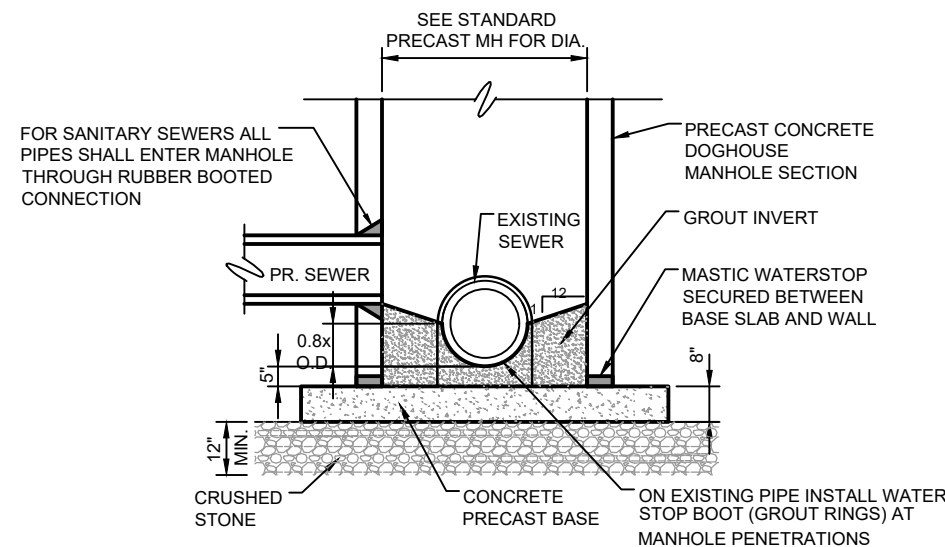


TYPICAL F-4 CURB DETAIL
NOT TO SCALE



HMA APPLICATION TABLE					
STREET	HMA	BASE	LEVELING 1	LEVELING 2	TOP
CITY STREETS	LVSP	220 LBS/SYD	-	-	220 LBS/SYD
MDOT	LVSP	330 LBS/SYD	330 LBS/SYD	330 LBS/SYD	330 LBS/SYD

- HMA NOTES:**
- BOND COAT SHALL BE APPLIED BETWEEN SUCCESSIVE COURSES OF HMA (PAYMENT INCLUDED IN HMA MIX). APPLICATION RATE 0.05 - 0.15 GAL/SYD SS-IH, AS DIRECTED BY ENGINEER.
 - BINDER GRADE SHALL BE PG 58-28.
 - AGGREGATE WEAR INDEX (AWI) = 220 MIN., TOP COURSE ASPHALT



DOGHOUSE PRECAST MANHOLE OVER EXISTING SEWER DETAIL

NO SCALE

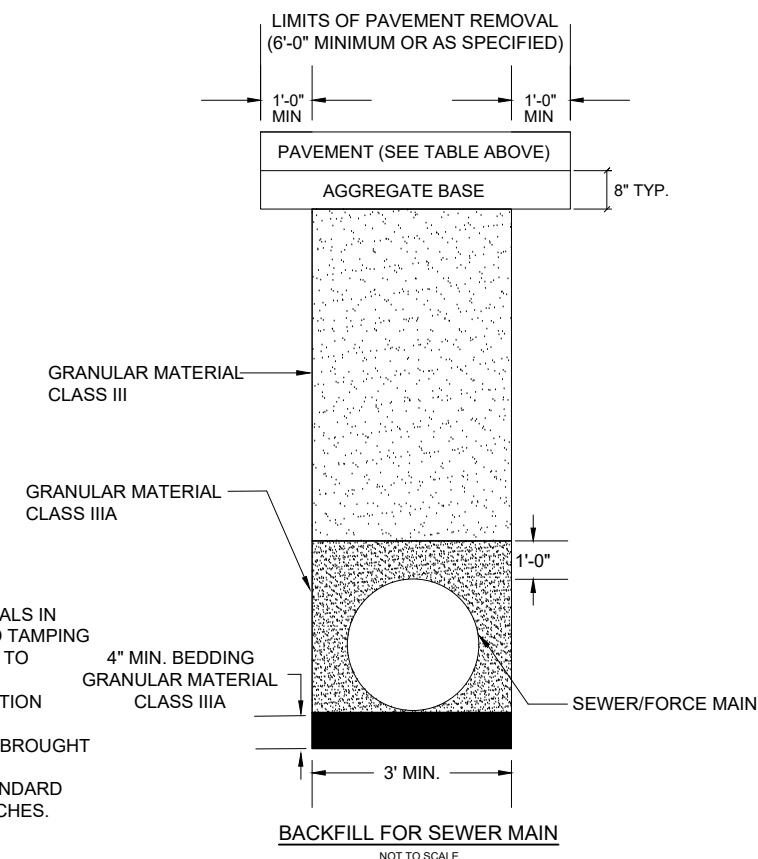
PUBLIC UTILITIES: THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO VERIFY THEIR ACCURACY OR THE RESPONSIBILITY IN CASE UTILITIES HAVE BEEN REMOVED OR CONSTRUCTED.

GAS:	MICHIGAN GAS UTILITY 70 SAUK RIVER DRIVE COLDWATER, MI 49036 P - 517-781-0511 ATTN: DONALD SEEKMAN donald.seekman@michiganutilities.com	ELECTRIC:	CITY OF HILLSDALE BPU 45 MONROE STREET HILLSDALE, MI 49242 P - 517-437-6417 ATTN: JAKE HAMMEL jhammel@hillsdalebpu.com
CABLE TELEVISION:	COMCAST 25626 TELEGRAPH RD. SOUTHFIELD, MI 48034 P - 734-359-1669 ATTN: JEFF DOBIES	TELEPHONE:	AT&T 1041 HURST ROAD JACKSON, MI 49201 P - 517-750-0660 ATTN: KAREN TRUDGEN karen.m.trudgen@att.com
WATER/SEWER:	CITY OF HILLSDALE BPU 45 MONROE STREET HILLSDALE, MI 49242 P - 517-437-6412 ATTN: JEFF GIER jgier@hillsdalebpu.com	PUBLIC WORKS:	CITY OF HILLSDALE 149 WATER WORKS AVE HILLSDALE, MI 49242 517-437-6491 ATTN: JASON BLAKE jblake@cityofhilldale.org

THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONFLICTS IN GRADE SHALL BE REPORTS TO THE CITY ENGINEER AND ADJUSTMENTS MADE AT NO ADDITIONAL COST TO THE OWNER.

SEWER MAIN BACKFILL NOTES:

- COMPACT INITIAL BACKFILL MATERIALS IN LIFTS NOT TO EXCEED 6 INCHES BY HAND TAMPING AROUND AND DIRECTLY ABOVE THE PIPE TO MINIMIZE VOIDS.
- DO NOT USE MECHANICAL COMPACTION EQUIPMENT DURING INITIAL BACKFILL OPERATIONS UNTIL MATERIAL HAS BEEN BROUGHT TO 12 INCHES ABOVE THE PIPE BARREL.
- COMPACT SAND BACKFILL AND STANDARD TRENCHES IN LIFTS TO EXCEEDING 12 INCHES.

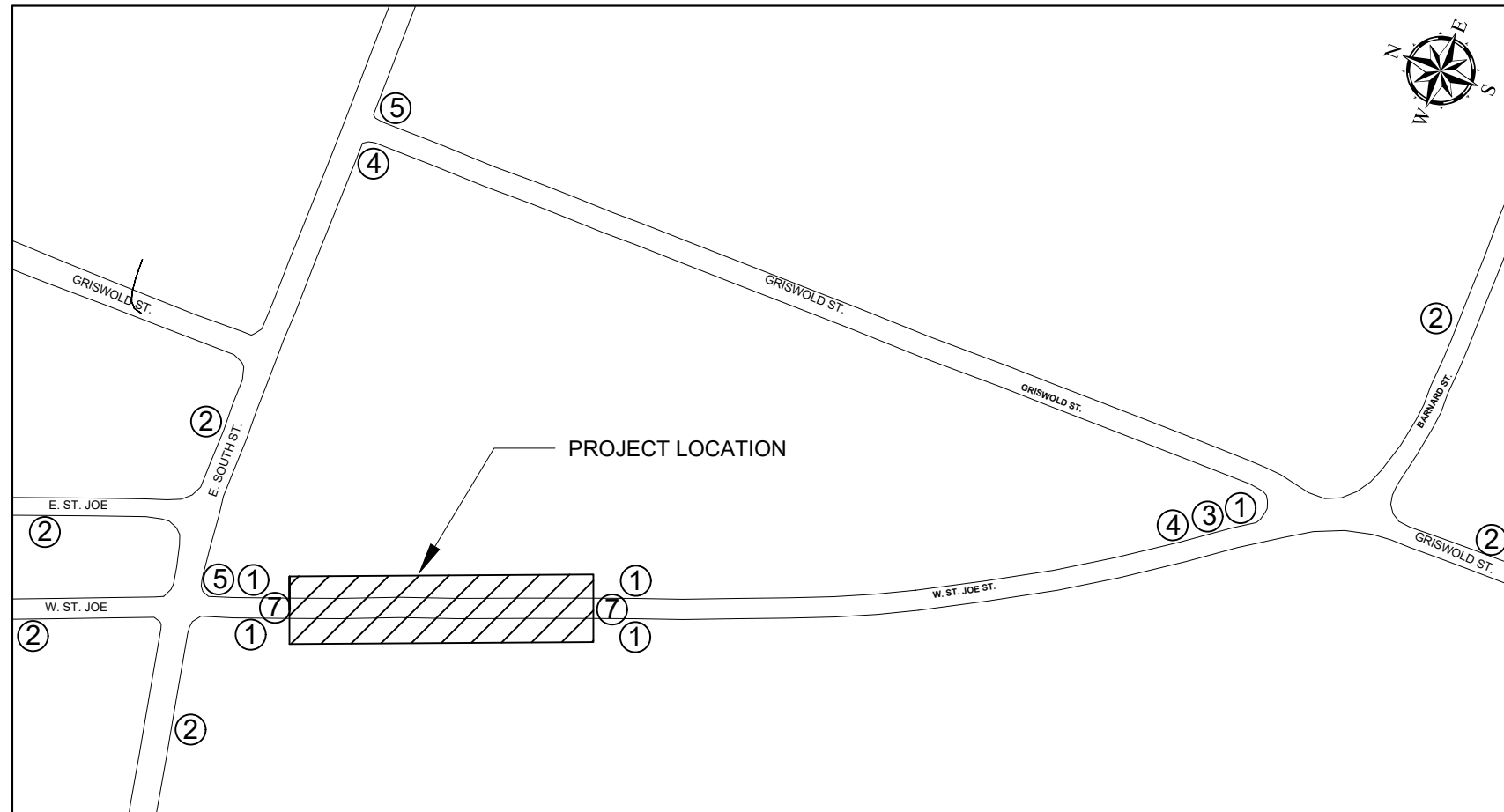


DRAWING SCALE:
NOT TO SCALE

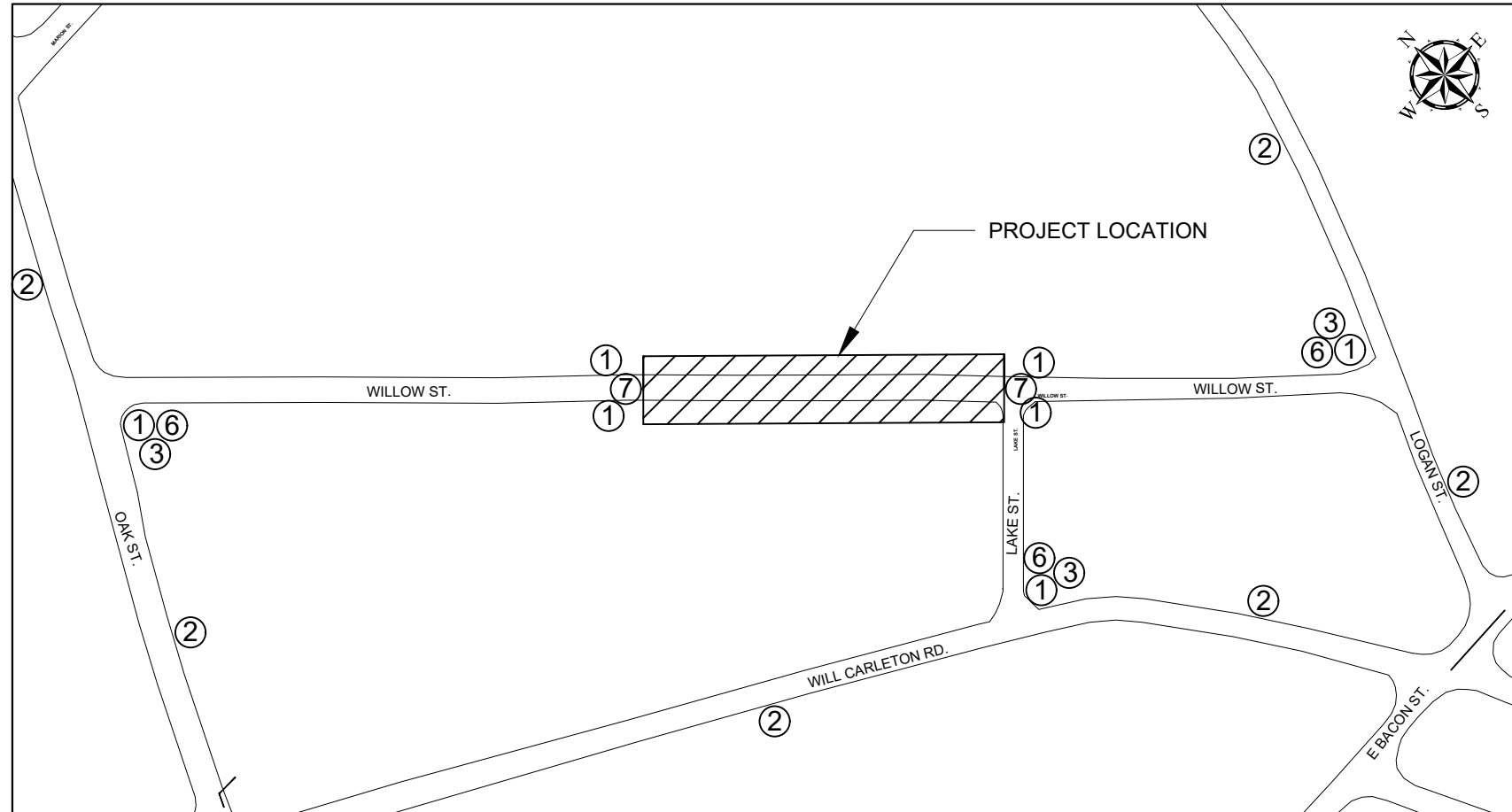
DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JG	01/13/23

DRAWING **SAN 11**

W. ST. JOE STREET



WILLOW STREET



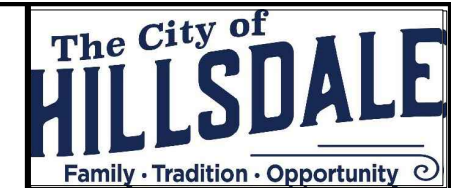
TRAFFIC CONTROL KEY

KEY	CODE	SIGN	*QTY
①		TYPE III BARRICADE HIGH INTENSITY, LIGHTED	12
②	W20-3	ROAD CLOSED AHEAD	12
③	R11-4	ROAD CLOSED TO THRU TRAFFIC	4
④	M4-9R	DETOUR ARROW RIGHT	2
⑤	M4-9L	DETOUR ARROW LEFT	2
⑥	M4-10D	DETOUR ARROW DOUBLE	3
⑦	R11-2	ROAD CLOSED	4

* QUANTITIES ARE MINIMUM REQUIRED. CONTRACTOR MAY INCREASE AS NEEDED FOR THEIR CONSTRUCTION PLANS. LIGHTED BARRELS AND/OR GRABBER CONES WILL BE NEEDED FOR FLAG CONTROL ZONES AND OVER NIGHT ONE LANE SECTIONS.

PROJECT NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE MDOT 2012 STANDARD SPECIFICATION FOR CONSTRUCTION.
2. ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

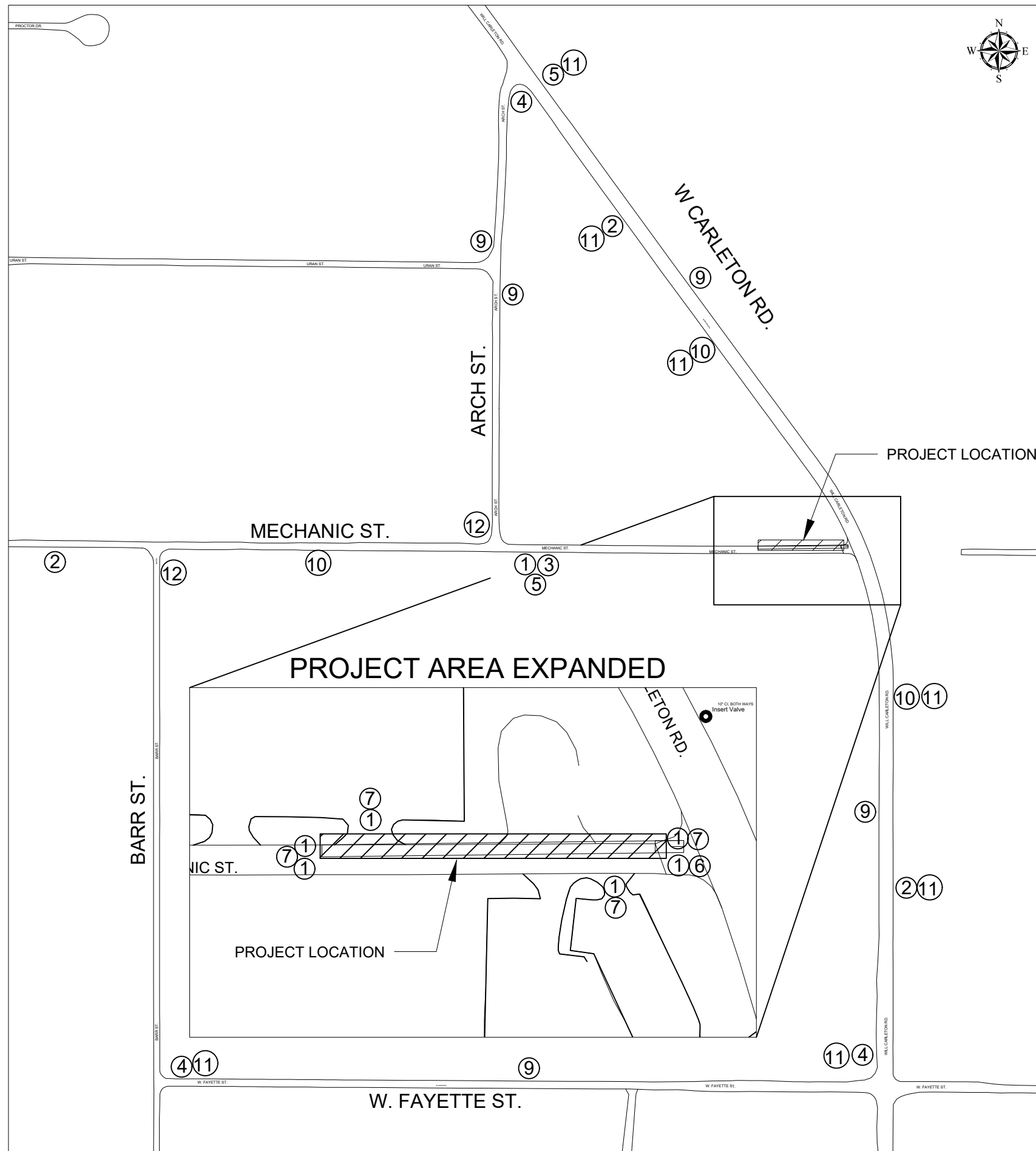
CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
TRAFFIC CONTROL
WILLOW ST. & W. ST. JOE ST.

DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JB	01/13/23

DRAWING **SAN 12**

MECHANIC STREET



TRAFFIC CONTROL KEY

KEY	CODE	SIGN	*QTY
①		TYPE III BARRICADE HIGH INTENSITY, LIGHTED	7
②	W20-3	ROAD CLOSED AHEAD	3
③	R11-4	ROAD CLOSED TO THRU TRAFFIC	1
④	M4-9R	DETOUR ARROW RIGHT	3
⑤	M4-9L	DETOUR ARROW LEFT	2
⑥	M4-10D	DETOUR ARROW DOUBLE	1
⑦	R11-2	ROAD CLOSED	4
⑧	W20-1	ROAD WORK AHEAD	0
⑨	M4-9S	DETOUR STRAIGHT	4
⑩	W20-2	DETOUR AHEAD	2
⑪	D3-1	"MECHANIC ST." - PLAQUE	7
⑫	M4-8A	DETOUR ENDS	2

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PROJECT NOTES

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE MDOT 2012 STANDARD SPECIFICATION FOR CONSTRUCTION.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.



45 MONROE ST.
HILLSDALE, MI 49242



REVISIONS	DATE
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ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

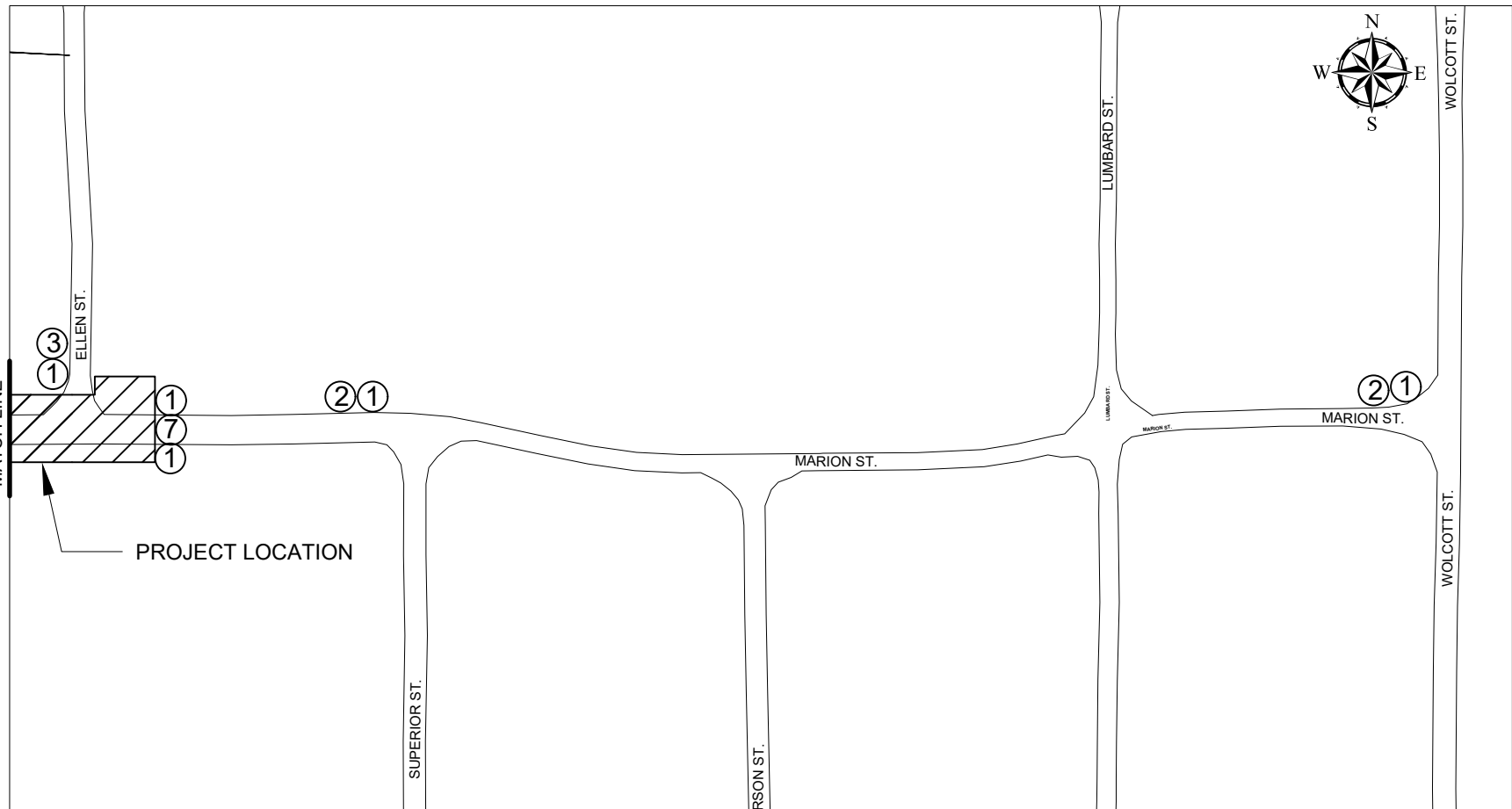
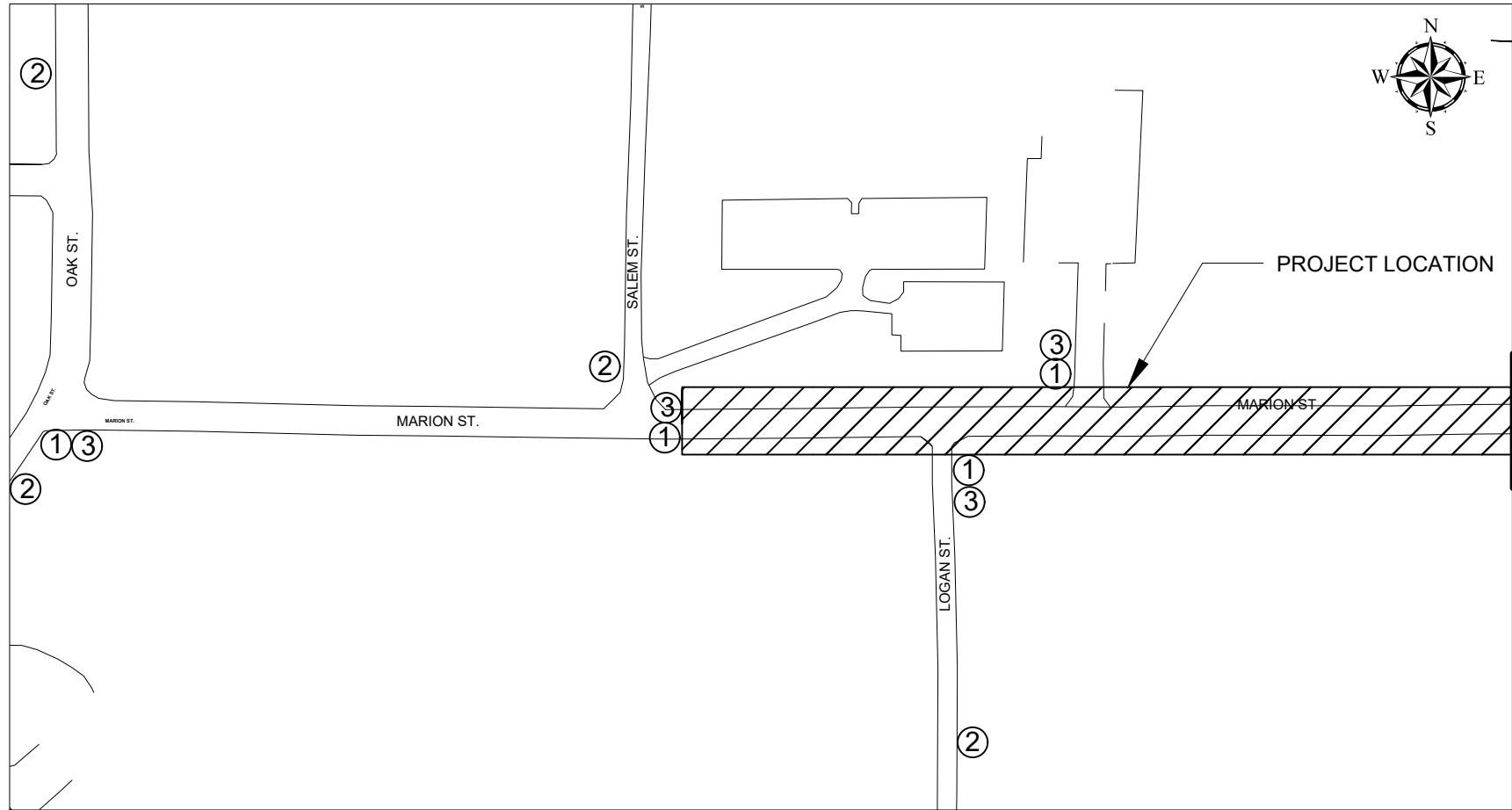
CITY WIDE
SEWER MAIN IMPROVEMENTS

TRAFFIC CONTROL
MECHANIC ST.

DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JB	01/13/23

DRAWING **SAN 13**



TRAFFIC CONTROL KEY

KEY	CODE	SIGN	*QTY
①		TYPE III BARRICADE HIGH INTENSITY, LIGHTED	9
②	W20-3	ROAD CLOSED AHEAD	6
③	R11-4	ROAD CLOSED TO THRU TRAFFIC	5
④	M4-9R	DETOUR ARROW RIGHT	0
⑤	M4-9L	DETOUR ARROW LEFT	0
⑥	M4-10D	DETOUR ARROW DOUBLE	0
⑦	R11-2	ROAD CLOSED	1

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PROJECT NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE MDOT 2012 STANDARD SPECIFICATION FOR CONSTRUCTION.
2. ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

45 MONROE ST.
HILLSDALE, MI 49242

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
TRAFFIC CONTROL
MARION ST.

DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JB	01/13/23

DRAWING **SAN 14**

REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
ISSUED FOR RE-BID	3/17/23

CITY OF HILLSDALE
HILLSDALE, MI

CITY WIDE
SEWER MAIN IMPROVEMENTS

TRAFFIC CONTROL
SPOT REPLACEMENTS/LINING LOCATIONS

DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JB	01/13/23

DRAWING
SAN 15

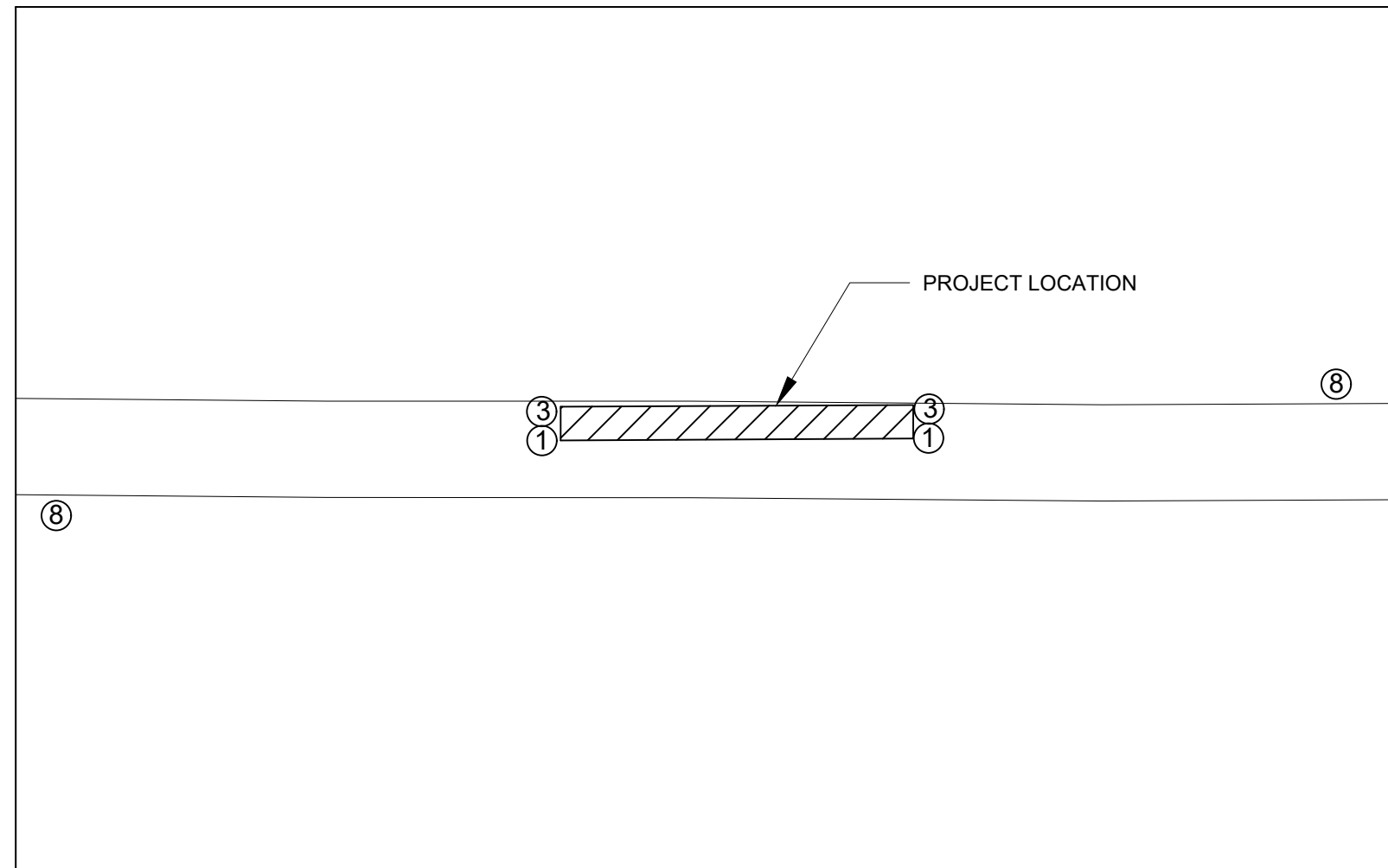
TRAFFIC CONTROL KEY

KEY	CODE	SIGN	*QTY
①		TYPE III BARRICADE HIGH INTENSITY, LIGHTED	7
②	W20-3	ROAD CLOSED AHEAD	3
③	R11-4	ROAD CLOSED TO THRU TRAFFIC	1
④	M4-9R	DETOUR ARROW RIGHT	3
⑤	M4-9L	DETOUR ARROW LEFT	2
⑥	M4-10D	DETOUR ARROW DOUBLE	1
⑦	R11-2	ROAD CLOSED	4
⑧	W20-1	ROAD WORK AHEAD	0

* QUANTITIES ARE MINIMUM REQUIRED. CONTRACTOR MAY INCREASE AS NEEDED FOR THEIR CONSTRUCTION PLANS. LIGHTED BARRELS AND/OR GRABBER CONES WILL BE NEEDED FOR FLAG CONTROL ZONES AND OVER NIGHT ONE LANE SECTIONS.

PROJECT NOTES

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- ALL TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.



TYPICAL TRAFFIC CONTROL
@ SPOT REPLACEMENTS/LINING LOCATIONS

(REFER TO MDOT TRAFFIC CONTROL FOR M-99 WORK)

45 MONROE ST.
HILLSDALE, MI 49242

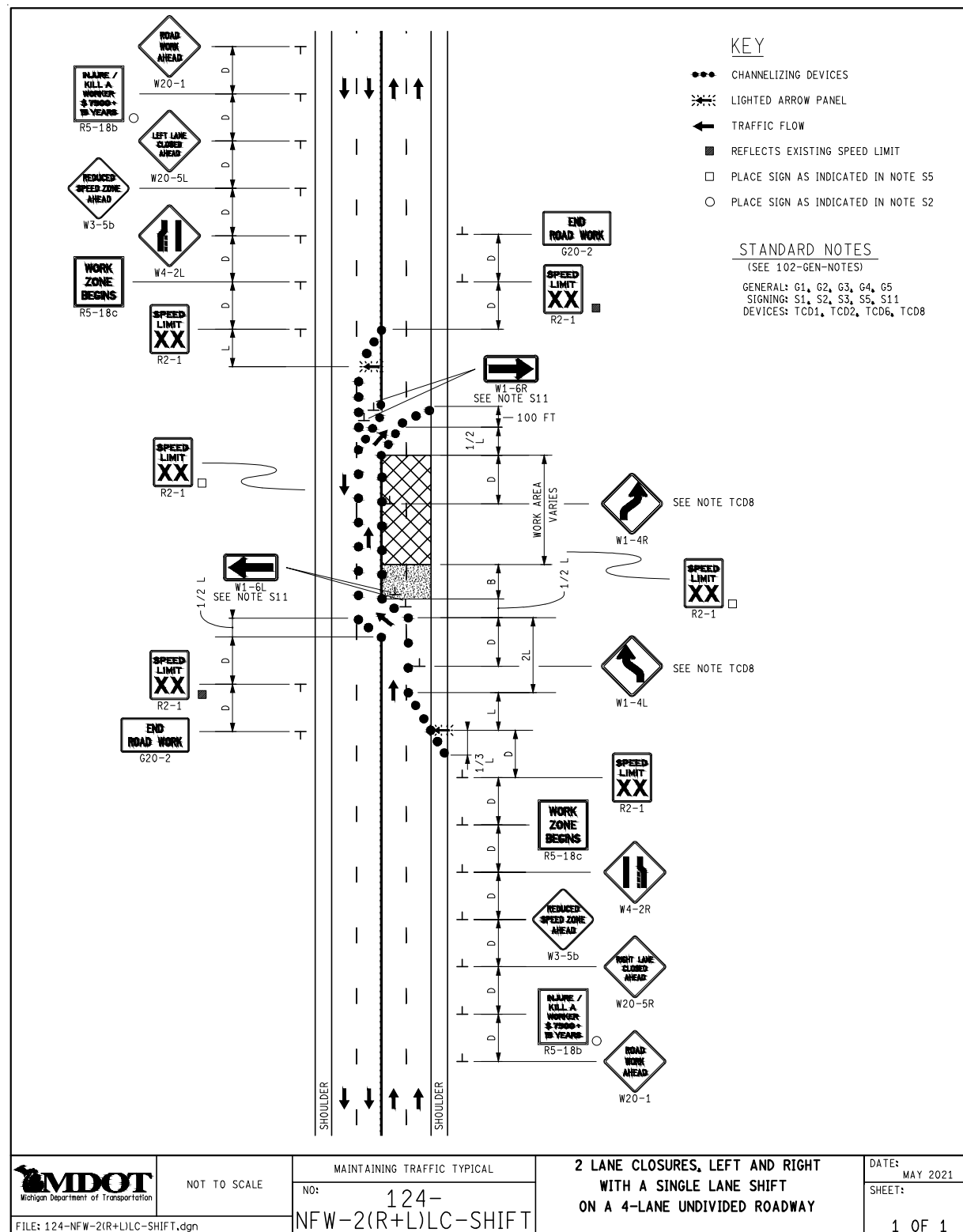
REVISIONS	DATE
ISSUED FOR BIDS	2/10/23
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CITY OF HILLSDALE
HILLSDALE, MI
CITY WIDE
SEWER MAIN IMPROVEMENTS
TRAFFIC CONTROL
MDOT TYPICALS

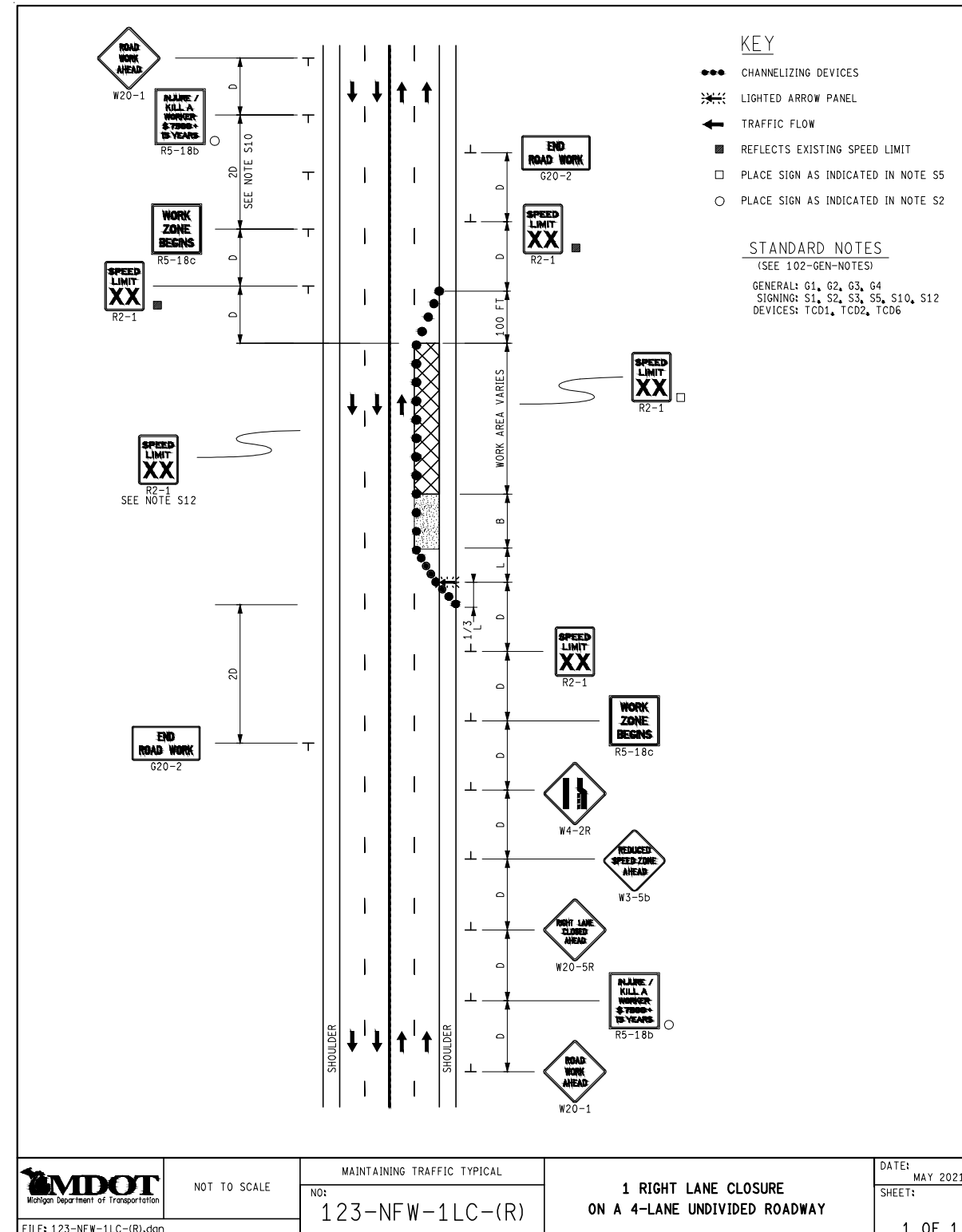
DRAWING SCALE:
NOT TO SCALE

DESIGNED	KLB	12/29/22
DRAWN	RK	01/06/23
CHECKED	JB	01/13/23

DRAWING
SAN 16



MDOT LANE SHIFT TYPICAL
(UTILIZE FOR S. BROAD ST. - M-99 @ SANITARY REPAIR / CCIP LINING)



MDOT LANE CLOSURE TYPICAL
(UTILIZE FOR W. CARLETON RD. - M-99 @ WATER VALVES)