

DATE: 9/19/24

**ADDENDUM #02:**  
**P25000504 Flint River Water Main Crossing & James P. Cole Blvd Water  
Main Replacement**

*This addendum has been published to address the Following Q&A, updated bid Provision, project manual and specifications in this document.*

To all bidders: On behalf of the Owner, The City of Flint, this ADDENDUM to the Bidding Documents is issued to you by Spalding DeDecker. for the Project described as the **2025 Water Main Improvements, SDA Job No FL23002 and FL23003.**

The following changes and/or clarifications shall be incorporated in the Bidding Documents of the Project and the cost thereof shall be included in the amount shown on each Bidder's Proposal:

**PROJECT MANUAL:**

Replace the follow pages in the Project Manual with the revised pages:

- Proposal (Bid – City of Flint): Replace pages 1 thru 9 with the attached pages 1 thru 9 (dated 9-18-24). The redundant pay item for SESC was removed in Part A and a pay item has been added for “Repair to Existing Water Main” for both Parts A and B.
- Special Provision for Water Main Construction: Replace pages 1 thru 21 of with attached revised pages 1 thru 21 (dated 9-18-24). A paragraph was added regarding the pay item for Repair to Existing Water Main.

**CONSTRUCTION DRAWINGS:**

Replace the plan set with the revised plan set. Minor informational corrections were made to some sheets in Part A and the profile for the Flint River crossing was revised per EGLE review. There are no changes to plan quantities.

**CLARIFICATION FROM CITY OF FLINT:**

During the Pre-bid meeting held at the City of Flint at 10 a.m. on September 16<sup>th</sup>, Kenneth Miller, City of Flint's DPW Utilities Administrator provided a clarification that the existing water main being replaced across the Flint River 16 inches in diameter. It is being replaced with same size HDPE water main.

**CONTRACTOR QUESTIONS:**

- 1) Q: I have a quick question about maintenance and guarantee bond on the above-mentioned project. I am looking for clarification on how many years the maintenance and guarantee bond is for.  
A: **The Bid Bond should be 5% as stated in Article 8 - Bid Security of the Instructions to Bidders for Construction Contract in the Project Manual. The Maintenance and Guarantee Bond applies to defective work and is effective for 1 year after the substantial completion date. Details are found in Section 15.08 of the General Conditions.**
- 2) Q: On plan sheet no. 4-A of 24, the typical shows the HMA Replacement cross section which shows 3” of 3EMH leveling course (or approved equal) and 2” of 5EMH (or approved equal) wearing course. The bid line items for both phases have the leveling course as 4EML and the wearing course as 5EML. Please clarify.

**A: 5EML top course and 4EML leveling course are correct. Revised Sheet #4A is attached.**

- 3) Q: At the Pre-Bid meeting Mr. Ken Miller, Water Department Director stated 2 particular items that he will be expecting. --- "I will be aggressive on traffic control"
- a) --- "any water main or sewer leaking damaged by the contractor to be repaired at contractor expense". I asked what if it's clearly evident that the leaking/damaged utility was NOT the contractor's fault? Miller said the contractor will still be responsible.
  - b) Perhaps the city could add an "allowance type pay item" to the bid schedule in the event if it's not the contractors fault?
  - c) ALSO--- PART A there are 2 (two) pay items foe soil erosion #3 & #41 FYI

**A:**

- a) **Sewer assets should be protected in place during construction. The Contractor shall determine how to do so through their own means and methods. Repair for any damage to any sewer assets should be resolved/repaired by the contractor if assets were not protected in place during construction. "Inspector" or "Water Department representative" will make determination on whether the contractor is responsible. Repairs shall be done with materials approved by the "Inspector" or "Water Dept representative".**
- b) **A pay item has been added for "Repair to Existing Water Main" to the Bid Form for both Parts A and B. The item is described in the Special Provision for Water Main Construction.**
- c) **The redundant pay item (#41) has been removed.**

- 4) Q: What is the engineer's estimated cost of construction?

**A: Part A: \$690,148    Part B: \$1,962,315**

- 5) Q: Are there any soil borings available prior to bid?

**A: The project was designed under an expedited schedule, so soil borings were not performed. The contractor is required to perform soils borings under bid items for "Geotechnical Investigation" in Parts A and B.**

### **ACKNOWLEDGMENT**

**Acknowledge receipt of this Addendum on Page 7 of the Bid Form. Failure to acknowledge the Addendum on Page 7 of your Bid shall be grounds for rejection of your Proposal.**

Prepared By:

Spalding DeDecker

Alan P. Loebach, PE

cc:    Plan Holders  
      Lauren Rowley, Flint Purchasing Manager  
      Abdul Khanker, Flint City Engineer  
      Kenneth Miller, Flint DPW Administrator

# BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

## ARTICLE 1—OWNER AND BIDDER

- 1.01 Proposal submittal information MUST be received by the following dates and times:
- A. The mail in HARD COPY with the original signature (signed documents) must be received by Wednesday, September 25<sup>th</sup>, 2024, by 11:00 A.M. (EST), City of Flint, Finance Department - Division of Purchases and Supplies, 1101 S. Saginaw St., Room 203, Flint, MI, 48502. Bids must be in a sealed envelope clearly identifying the proposal name and proposal number.
  - B. **Electronic Copy**, please email to **PurchasingBids@cityofflint.com** by **Wednesday, September 25<sup>th</sup>, 2024, by 11:00 A.M. (EST)**. Please note that in the subject line of the email, type in the proposal name and number.
  - C. Faxed bids are not accepted.
  - D. **Both** mail in proposal and electronic submittal must be received by due date and time.
- 1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.
- 1.03 A **mandatory pre-bid conference** for this project will take place at **10:00 AM EST, Monday, September 16th, 2024**, in the McKenzie Conference Room, Flint City Hall 2nd floor, 1101. S Saginaw St, Flint, MI, 48502. All notices of intent to attend should be sent to Lauren Rowley, Purchasing Manager at [lrowley@cityofflint.com](mailto:lrowley@cityofflint.com). ***Failure to attend may result in disqualification of your bid.***
- 1.04 Bids will be opened publicly at the McKenzie Conference Room on the 2nd floor of Flint City Hall. The public is welcome to join in person or via Google Meet.

### **Bid Opening**

**Wednesday, September 25th, 2024 @11:00 AM EST**

**Time zone: America/New\_York**

**Google Meet joining info**

**Video call link: <https://meet.google.com/oir-kjbx-qtz>**

**Or dial: (US) +1 304-833-9165 PIN: 397 587 170#**

- 1.05 Attachments to this Bid

The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security;
- B. List of Proposed Subcontractors;
- C. Required Bidder Qualification Statement with supporting data; and

**ARTICLE 2—BASIS OF BID**

2.01 *Unit Price Bids*

A. Bidder will perform the following Work at the indicated unit prices:

**PART A – FLINT RIVER WATER MAIN CROSSING**

<b>Item No.</b>	<b>Item Ref No.</b>	<b>Item Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total Amount</b>
1	MDOT 1100001	Mobilization, Max 10%	1	LSUM	\$	\$
2	Suppl Spec	Color Audio-Video Route Survey	1	LSUM	\$	\$
3	Suppl Spec	Soil Erosion and Sedimentation Control	1	LSUM	\$	\$
4	MDOT 2010001	Clearing	1	LSUM	\$	\$
5	MDOT 2020004	Tree, Rem, 6 inch to 18 inch	3	EA	\$	\$
6	MDOT 2040020	Curb and Gutter, Rem	90	FT	\$	\$
7	MDOT 2040055	Sidewalk, Rem	51	SYD	\$	\$
8*	MDOT 2040080	Exploratory Excavation, Vertical	80	FT	\$	\$
9	MDOT 3020001	Aggregate Base 21AA	172	TON	\$	\$
10	MDOT 5010005	HMA Surface, Rem	146	SYD	\$	\$
11	MDOT 5012025	HMA, 4EML	29	TON	\$	\$
12	MDOT 5012037	HMA, 5EML	24	TON	\$	\$
13	MDOT 8020021	Curb and Gutter, Conc, Det F3	90	FT	\$	\$
14	MDOT 8030044	Sidewalk, Conc, 4 inch	451	SFT	\$	\$
15	SP-WM	Water Main, 6 inch, Cut and Plug, Modified	4	EA	\$	\$
16	SP-WM	Water Main, 12 inch, Cut and Plug, Modified	1	EA	\$	\$
17	SP-WM	Water Main, 16 inch, Cut and Plug, Modified	5	EA	\$	\$
18	SP-WM	Water Main, 24 inch, Cut and Plug, Modified	1	EA	\$	\$
19	SP-WM	Water Main, Rem	20	FT	\$	\$
20	SP-WM	Water Main, Abandon	988	FT	\$	\$
21	SP-WM	Hydrant, Rem, Modified	1	EA	\$	\$

Item No.	Item Ref No.	Item Description	Quantity	Unit	Unit Price	Total Amount
22	SP-WM	Water Structure, Abandon	4	EA	\$	\$
23*	SP-WM	In Line Stop, 6 Inch	2	EA	\$	\$
24*	SP-WM	In Line Stop, 12 Inch	1	EA	\$	\$
25*	SP-WM	In Line Stop, 16 Inch	1	EA	\$	\$
26*	SP-WM	In Line Stop, 24 Inch	1	EA	\$	\$
27	SP-WM	Water Main, DIWM 6 Inch, Open Cut	11	FT	\$	\$
28	SP-WM	Water Main, DIWM 12 Inch, Open Cut	5	FT	\$	\$
29	SP-WM	Water Main, DIWM 16 Inch, Open Cut	322	FT	\$	\$
30	SP-WM	Water Main, HDPE SDR 11 16 Inch, Directional Drill	526	FT	\$	\$
31	SP-WM	Water Main, DIWM 24 Inch, Open Cut	5	FT	\$	\$
32	SP-WM	Water Main Bedding and Backfill, SD-7W	332	FT	\$	\$
33	SP-WM	Gate Valve and Well, 6 Inch, Modified	1	EA	\$	\$
34	SP-WM	Gate Valve and Well, 16 Inch, Modified	5	EA	\$	\$
35	SP-WM	Hydrant Assembly SD-1W	2	EA	\$	\$
36	SP-WM	Water Main, Connect new 6 inch to existing 6 inch	1	EA	\$	\$
37	SP-WM	Water Main, Connect new 12 inch to existing 12 inch	1	EA	\$	\$
38	SP-WM	Water Main, Connect new 16 inch to existing 6 inch	1	EA	\$	\$
39	SP-WM	Water Main, Connect new 16 inch to existing 16 inch	2	EA	\$	\$
40	SP-WM	Water Main, Connect new 24 inch to existing 24 inch	1	EA	\$	\$
41*	P-WM	Repair to Existing Water Main	2	EA	\$	\$
42	Suppl Spec	Maintaining Traffic	1	LSUM	\$	\$

Item No.	Item Ref No.	Item Description	Quantity	Unit	Unit Price	Total Amount
43	Suppl Spec	Turf Establishment	800	SYD	\$	\$
44	Suppl Spec	Permit Allowance	1	LSUM	\$2,500.00	\$2,500.00
45	Suppl Spec	Geotechnical Investigation	1	LSUM	\$	\$
46	Suppl Spec	Crew Days		DAY	\$840.00	\$
<b>PART A TOTAL BID</b>						<b>\$</b>

**PART B – JAMES P COLE BLVD WATER MAIN REPLACEMENT**

Item No.	Item Ref No.	Item Description	Quantity	Unit	Unit Price	Total Amount
1	MDOT 1100001	Mobilization, Max 10%	1	LSUM	\$	\$
2	Suppl Spec	Color Audio-Video Route Survey	1	LSUM	\$	\$
3	MDOT 2010001	Clearing	1	LSUM	\$	\$
4	Suppl Spec	Soil Erosion and Sedimentation Control	1	LSUM	\$	\$
5	MDOT 2040020	Curb and Gutter, Rem	72	FT	\$	\$
6	MDOT 2050031	Non Haz Contaminated Material Handling and Disposal, LM	50	CYD	\$	\$
7	MDOT 3020001	Aggregate Base	281	TON	\$	\$
8	MDOT 5010005	HMA Surface, Rem	693	SYD	\$	\$
9	MDOT 5012025	HMA, 4EML	116	TON	\$	\$
10	MDOT 5012037	HMA, 5EML	80	TON	\$	\$
11	MDOT 8020021	Curb and Gutter, Conc, Det C2	72	FT	\$	\$
12	MDOT 8230245	Water Serv, Long	1	EA	\$	\$
13	SP-WM	Water Main, Rem	90	LFT	\$	\$
14	SP-WM	Water Main, Abandon	9000	LFT	\$	\$
15	SP-WM	Hydrant, Rem, Modified	10	EA	\$	\$

Item No.	Item Ref No.	Item Description	Quantity	Unit	Unit Price	Total Amount
16	SP-WM	Water Structure, Abandon	9	EA	\$	\$
17	SP-WM	Water Main, DIWM 6 inch, Open Cut	32	LFT	\$	\$
18	SP-WM	Water Main, DIWM 8 inch, Open Cut	53	LFT	\$	\$
19	SP-WM	Water Main, DIWM 10 inch, Open Cut	31	LFT	\$	\$
20	SP-WM	Water Main, DIWM 18 inch, Open Cut	367	LFT	\$	\$
21	SP-WM	Water Main, HDPE SDR 11, 8 inch, Directional Drill	155	LFT	\$	\$
22	SP-WM	Water Main, HDPE SDR 11, 10 inch, Directional Drill	79	LFT	\$	\$
23	SP-WM	Water Main, HDPE SDR 11, 18 inch, Directional Drill	2868	LFT	\$	\$
24	SP-WM	Water Main Bedding and Backfill, SD-7W	483	LFT	\$	\$
25	SP-WM	Water Main, 6 inch, Cut and Plug, Modified	1	EA	\$	\$
26	SP-WM	Water Main, 8 inch, Cut and Plug, Modified	3	EA	\$	\$
27	SP-WM	Water Main, 18 inch, Cut and Plug, Modified	4	EA	\$	\$
28	SP-WM	Gate Valve and Well, 8 inch, Modified	2	EA	\$	\$
29	SP-WM	Gate Valve and Well, 10 inch, Modified	1	EA	\$	\$
30	SP-WM	Gate Valve and Well, 18 inch, Modified	8	EA	\$	\$
31	SP-WM	Gate Valve and Box, 10 inch, Modified	2	EA	\$	\$
32	SP-WM	Hydrant Assembly SD-1W	9	EA	\$	\$
33	SP-WM	Water Main, Connect New 6 inch to Existing 6 inch	2	EA	\$	\$
34	SP-WM	Water Main, Connect New 8 inch to Existing 8 inch	1	EA	\$	\$
35	SP-WM	Water Main, Connect New 18 inch to Existing 18 inch	4	EA	\$	\$
36*	SP-WM	In Line Stop, 6 inch	1	EA	\$	\$

Item No.	Item Ref No.	Item Description	Quantity	Unit	Unit Price	Total Amount
37*	SP-WM	In Line Stop, 8 inch	1	EA	\$	\$
38*	SP-WM	In Line Stop, 18 inch	2	EA	\$	\$
39	SP-WM	Water Serve Pipe, Cu, 1 inch	100	FT	\$	\$
40*	P-WM	Repair to Existing Water Main	2	EA	\$	\$
41*	SP-Expl Excav	Exploratory Excavation and Utility Locating, Pavement	11	EA	\$	\$
42*	SP-Expl Excav	Exploratory Excavation and Utility Locating, Non-Pavement	17	EA	\$	\$
43	Suppl Spec	Maintaining Traffic	1	LSUM	\$	\$
44	Suppl Spec	Turf Establishment	1790	SYD	\$	\$
45	Suppl Spec	Permit Allowance	1	LSUM	\$2,5000.00	\$2,500.00
46	Suppl Spec	Geotechnical Investigation	1	LSUM	\$	\$
47	Suppl Spec	Crew Days	\$840	DAY		\$
<b>PART B TOTAL BID</b>						<b>\$</b>

\*The City reserves the right and advantage to add and/or delete from or eliminate completely said items if deemed unnecessary during the contract work, as noted (\*)

**BID SUMMATION**

<b>PART A TOTAL BID</b>	<b>\$</b>
<b>PART B TOTAL BID</b>	<b>\$</b>
<b>GRAND TOTAL</b>	<b>\$</b>

***The City of Flint reserves the right to award separate contracts based on the lowest responsible bids for Part A or Part B or for the total of Parts A and B.***

Bidder acknowledges that:

1. Each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and
2. Estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

**ARTICLE 3—TIME OF COMPLETION**

- 3.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 3.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

**ARTICLE 4—BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA**

4.01 *Bid Acceptance Period*

- A. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

4.02 *Instructions to Bidders*

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

4.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

**ARTICLE 5—BIDDER'S REPRESENTATIONS AND CERTIFICATIONS**

5.01 *Bidder's Representations*

- A. In submitting this Bid, Bidder represents the following:
1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
  2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
  3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
  4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

#### 5.02 *Bidder's Certifications*

- A. The Bidder certifies the following:
  1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
  2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
  3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
  4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
    - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
    - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.
    - c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
    - d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder:

\_\_\_\_\_

*(typed or printed name of organization)*

By:

\_\_\_\_\_

*(individual's signature)*

Name:

\_\_\_\_\_

*(typed or printed)*

Title:

\_\_\_\_\_

*(typed or printed)*

Date:

\_\_\_\_\_

*(typed or printed)*

*If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.*

Attest:

\_\_\_\_\_

*(individual's signature)*

Name:

\_\_\_\_\_

*(typed or printed)*

Title:

\_\_\_\_\_

*(typed or printed)*

Date:

\_\_\_\_\_

*(typed or printed)*

Address for giving notices:

\_\_\_\_\_

\_\_\_\_\_

Bidder's Contact:

Name:

\_\_\_\_\_

*(typed or printed)*

Title:

\_\_\_\_\_

*(typed or printed)*

Phone:

\_\_\_\_\_

Email:

\_\_\_\_\_

Address:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Bidder's Contractor License No.: (if applicable) \_\_\_\_\_

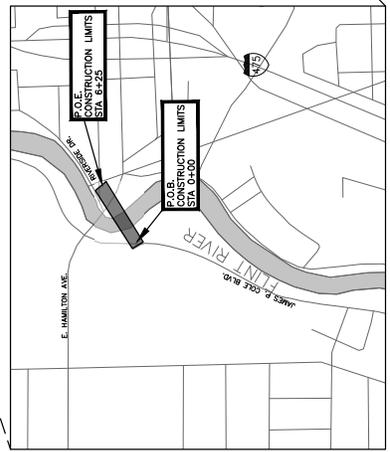
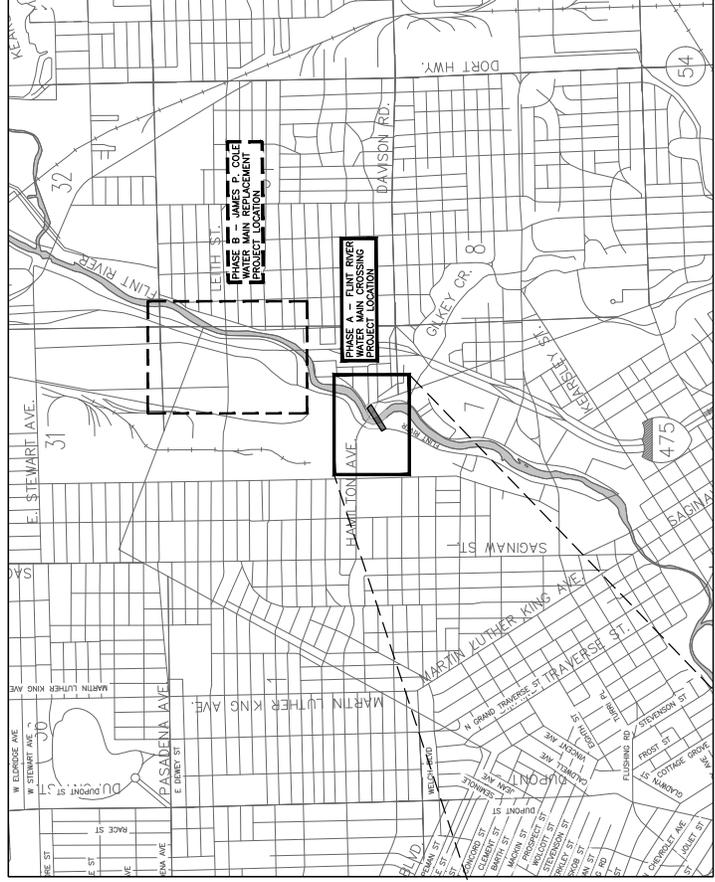
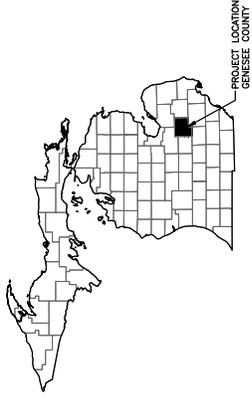
# THE CITY OF FLINT

## PLAN AND PROFILE OF PROPOSED 2025 WATER MAIN IMPROVEMENTS PROJECT

# FLINT RIVER WATER MAIN CROSSING

CITY OF FLINT, GENESEE COUNTY, MICHIGAN  
JOB NUMBER: FL23002

Sheet Number	Sheet Title
1-A	COVER
2-A	LEGEND AND NOTES
3-A	WATER MAIN DETAILS
4-A	WATER MAIN SUPPLEMENTAL DETAILS AND NOTES
5-A	SOIL EROSION AND SEDIMENTATION CONTROL PLAN
6-A	CONSTRUCTION P.O.B. TO STA. 5+00
7-A	CONSTRUCTION - STA. 5+00 TO STA. 6+25
8-A	CONSTRUCTION - STA. 100+00 TO P.O.E.



**LOCATION MAP**  
1" = 1/4 MILE

### UTILITIES & MUNICIPALITIES

<b>TELEPHONE</b> AL&T ENGINEERING 54 NORTH MILL STREET, P.O. BOX 32 FLINT, MICHIGAN 48901 CONTACT: KENNETH MILLER, DFW ADMINISTRATOR PHONE: 810.766.7165	<b>CITY OF FLINT</b> 1101 SOUTH SAGINAW STREET NORTH BUILDING FLINT, MICHIGAN 48901 CONTACT: KENNETH MILLER, DFW ADMINISTRATOR PHONE: 810.766.7165
<b>TELECOM</b> COMLINK - LAKE EAST LANSING, MI 48823 CONTACT: JACK BOLLINGER PHONE: 517.742.4020	<b>CITY OF FLINT WATER SERVICE CENTER</b> 3310 EAST COURT STREET FLINT, MICHIGAN 48901 CONTACT: PAUL SIMPSON, WATER DIST. SUPERVISOR PHONE: 810.766.7202
<b>CONSUMERS ENERGY - ELECTRIC</b> 3201 EAST COURT STREET FLINT, MICHIGAN 48901 CONTACT: TRACY MAHAR PHONE: 810.760.3506	<b>CITY OF FLINT TRANSPORTATION (SOUTH) BUILDING</b> 1101 SOUTH SAGINAW STREET FLINT, MICHIGAN 48901 CONTACT: ROD MEGANA, DIRECTOR PHONE: 810.766.7135
<b>CONSUMERS ENERGY</b> 3201 EAST COURT STREET FLINT, MICHIGAN 48901 CONTACT: MATT COX PHONE: 810.760.2486	<b>CITY OF FLINT NORTH BUILDING (ENGINEERING)</b> 1101 SOUTH SAGINAW STREET FLINT, MICHIGAN 48901 CONTACT: ANDREW KHANDKER, CITY ENGINEER PHONE: 810.766.7135

REPLACEMENT OF THE EXISTING 60" WATER MAIN WITH A NEW 60" WATER MAIN UNDER THE FLINT RIVER AT HAMILTON AVENUE. INSTALLED BY HORIZONTAL DRILLING METHODS. INCLUDING INSTALLATION OF WATER MAINS AND VALVES TO PROVIDE PROTECTION AND ISOLATION.

JOB NO. **FL23002**

SHEET **1-A OF 24**

**SPALDING**  
**D&B**  
ENGINEERING and Surveying  
Excellence Since 1954  
588 Orchard Lake East, Orchard Lake, MI 48307  
Phone: (248) 845-5400 Fax: (248) 844-5404

PREPARED UNDER THE SUPERVISION OF:



\_\_\_\_\_  
JEREMY J. SCHROTT, P.E., REG. NO. 6201039414

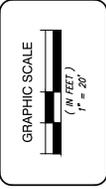
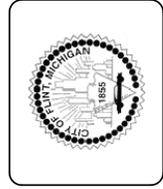












**Know what you're doing.**  
 Call them for help.

**UTILITY NOTE**  
 UTILITY INFORMATION ON THIS DRAWING MAY BE FROM THE CITY OF FLINT'S RECORD DRAWINGS AND SHOULD BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

**UTILITY NOTE**  
 UTILITY INFORMATION ON THIS DRAWING MAY BE FROM THE CITY OF FLINT'S RECORD DRAWINGS AND SHOULD BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

<b>FLINT RIVER WM CROSSING</b>	
CONSTRUCTION - STA. 5400 TO STA. 6425	
SECTION 6	RANGE 7E
TOWNSHIP	CITY OF FLINT
COUNTY	GENESSEE
NO.	DATE
SUBMITTAL	
DATE TO BE OPEN FOR CONSTRUCTION, DRAWING	
DATE TO BE OPEN FOR THIS SHEET	
DATE	BY
04-19-24	W. SCHWARTZ
04-19-24	A. LEBECH
08-15-24	J. SCHWARTZ
08-15-24	J. SCHWARTZ
FL23020200	FL23020200
NO. SCALE	7-1/2" OF 24"

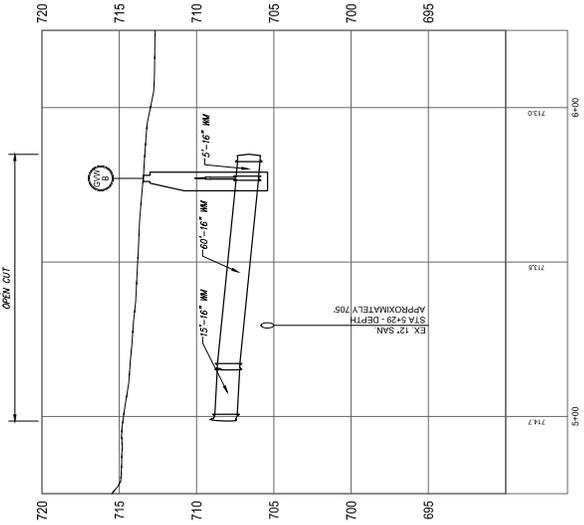
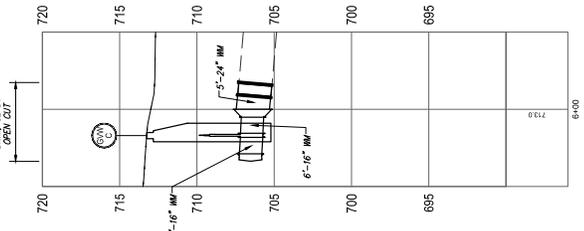
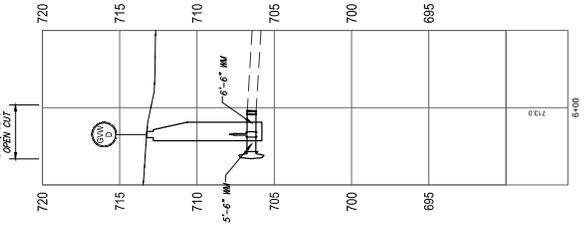
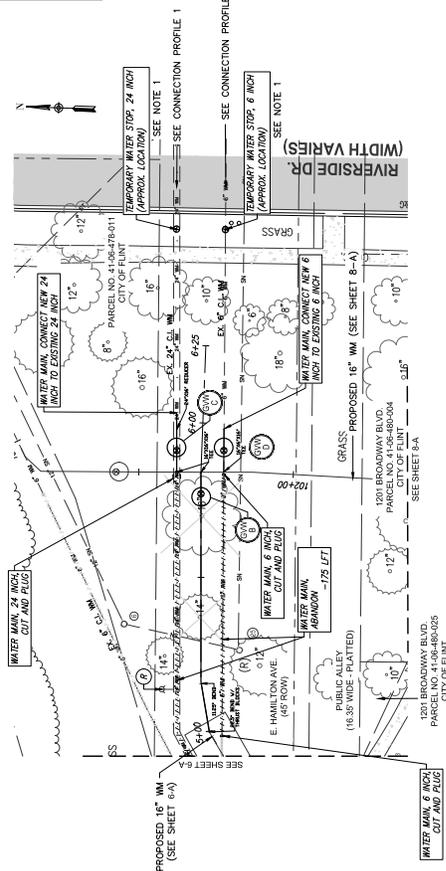
**PROPOSED WATER MAIN STRUCTURE TABLE**

VALVE	PROPOSED CENTER OF STRUCTURE	DESCRIPTION
A	OFFSET	
B	7" R	GATE VALVE AND WELL, 16 INCH
C	7" R	GATE VALVE AND WELL, 16 INCH
D	8" L	GATE VALVE AND WELL, 6 INCH

**QUANTITIES - THIS SHEET**

Item	Quantity	Unit
WATER MAIN, 6 INCH, CUT AND PLUG, MODIFIED	2	EA
WATER MAIN, 24 INCH, CUT AND PLUG, MODIFIED	1	EA
HYDRAULIC REM. MODIFIED	175	FT
IN LINE STOP, 6 INCH	1	EA
WATER MAIN, 6 INCH, OPEN CUT	11	FT
WATER MAIN, 16 INCH, OPEN CUT	97	FT
WATER MAIN, 24 INCH, OPEN CUT	5	FT
WATER MAIN BEDDING AND BACKFILL, 50'-7W	102	FT
GATE VALVE AND WELL, 16 INCH, MODIFIED	2	EA
WATER MAIN, CONNECT NEW 6 INCH TO EXISTING 6 INCH	1	EA
WATER MAIN, CONNECT NEW 24 INCH TO EXISTING 24 INCH	1	EA

**NOTE:**  
 1. THE LOCATION FOR THE TEMPORARY LINE STOP SHALL BE DETERMINED BASED ON THE EXISTING WATER MAIN DEPTH. CONTRACTOR SHALL COORDINATE THE LOCATIONS WITH THE ENGINEER/OWNER.





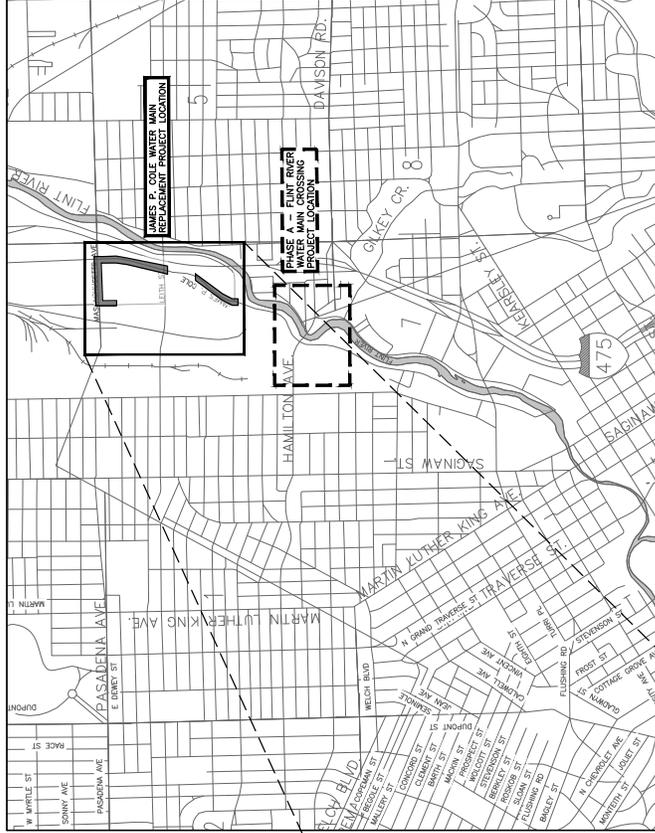
# THE CITY OF FLINT

PLAN AND PROFILE OF PROPOSED  
2025 WATER MAIN IMPROVEMENTS PROJECT

## JAMES P. COLE WATER MAIN REPLACEMENT

CITY OF FLINT, GENESEE COUNTY, MICHIGAN  
JOB NUMBER: FL23003

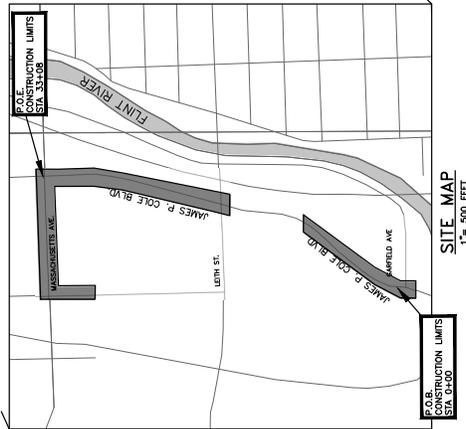
SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1-B	COVER SHEET
2-B	LEGEND AND PROJECT NOTES
3-B	DETAIL SHEET
4-B	WATER MAIN NOTES AND DETAILS
5-B	SOIL EROSION AND SEDIMENTATION CONTROL PLAN - 1
6-B	SOIL EROSION AND SEDIMENTATION CONTROL PLAN - 2
7-B	CONSTRUCTION - P.O.B. TO STA. 6+00
8-B	CONSTRUCTION - STA. 6+00 TO STA. 12+00
9-B	CONSTRUCTION - STA. 12+00 TO 18+00
10-B	CONSTRUCTION - STA. 18+00 TO 24+00
11-B	CONSTRUCTION - STA. 24+00 TO 30+00
12-B	CONSTRUCTION - STA. 30+00 TO P.O.E.
13-B	CONSTRUCTION - STA. 202+00 TO P.O.E.
14-B	CONSTRUCTION - SUPPLEMENTAL PLANS AND PROFILES
15-B	CONSTRUCTION - SUPPLEMENTAL PLANS AND PROFILES
16-B	WATER MAIN ABANDONMENT PLAN



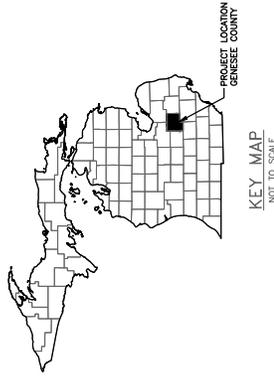
LOCATION MAP  
1" = 1/4 MILE

### UTILITIES & MUNICIPALITIES

TELEPHONE ALTA ENGINEERING 1101 SOUTH SAGINAW STREET FLINT, MI 48802 CONTACT: KENNETH MILLER, DFW ADMINISTRATOR PHONE: 810.766.7165	CITY OF FLINT 1101 SOUTH SAGINAW STREET FLINT, MI 48802 CONTACT: KENNETH MILLER, DFW ADMINISTRATOR PHONE: 810.766.7165
TELECOM COMLINE 1001 EAST COURT STREET EAST LANSING, MI 48823 CONTACT: PAUL SIMPSON, WATER DIST. SUPERVISOR PHONE: 517.742.4289	CITY OF FLINT WATER SERVICE CENTER 3310 EAST COURT STREET EAST LANSING, MI 48823 CONTACT: PAUL SIMPSON, WATER DIST. SUPERVISOR PHONE: 810.766.7202
ELECTRIC CONSUMERS ENERGY - ELECTRIC 1101 SOUTH SAGINAW STREET FLINT, MI 48802 CONTACT: TRACY MAHAR PHONE: 810.760.2506	CITY OF FLINT 1101 SOUTH SAGINAW STREET FLINT, MI 48802 CONTACT: ROD MCGAHA, DIRECTOR PHONE: 810.766.7135
GAS CONSUMERS ENERGY 1001 EAST COURT STREET EAST LANSING, MI 48802 CONTACT: MAT COX PHONE: 810.760.5486	CITY OF FLINT 1101 SOUTH SAGINAW STREET FLINT, MI 48802 CONTACT: ABDUL KHANDKER, CITY ENGINEER PHONE: 810.766.7135



SITE MAP  
1" = 500 FEET



KEY MAP  
NOT TO SCALE

REPLACEMENT OF THE EXISTING WATER MAIN ALONG JAMES P. COLE BLVD. AND IN  
INCLUDES INSTALLATION OF WATER MAINS AND VALVES TO PROVIDE LOOPING AND  
ISOLATION AS WELL AS THE ABANDONMENT OF EXISTING WATER MAIN

TJOB NO. FL23003 SHEET 1-B OF 24

**SPALDING DeBCKER**  
Engineering and Surveying  
Excellence Since 1954  
905 South Blvd. East, Rochester Hills, MI 48067  
Phone: (248) 844-5400 | Fax: (248) 844-5404



PREPARED UNDER THE SUPERVISION OF:

JEREMY J. SCHROTT, P.E., REG. NO. 6201659614



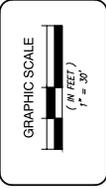
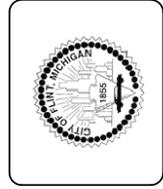








**SPALDING DeBECKER**  
 Engineers | Planners | Surveyors  
 Excellence Since 1954  
 27333 Meadowbrook Rd., Suite 210  
 Novi, MI 48377  
 Phone (248) 844-6274  
**Headquarters**  
 Rochester Hills  
**Branch Offices**  
 Detroit | Grand Rapids | Novi | Lansing  
 www.spaldingdebecker.com  
 (800) 598-2880



**Know what's below.**  
 Call them for utility information. They'll find out what's underground and tell you what to do about it. They'll also tell you what to do about it. They'll also tell you what to do about it.

**UTILITY NOTE**  
 UTILITY INFORMATION ON THIS DRAWING MAY BE FROM THE RECORD DRAWINGS OF THE CITY OF EMMET, MICHIGAN. THE CITY ENGINEER HAS REVIEWED THIS INFORMATION AND HAS DETERMINED THAT IT IS ACCURATE TO THE BEST OF HIS KNOWLEDGE AND BELIEF. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THIS INFORMATION BEFORE CONSTRUCTION.

UTILITY INFORMATION ON THIS DRAWING MAY BE FROM THE RECORD DRAWINGS OF THE CITY OF EMMET, MICHIGAN. THE CITY ENGINEER HAS REVIEWED THIS INFORMATION AND HAS DETERMINED THAT IT IS ACCURATE TO THE BEST OF HIS KNOWLEDGE AND BELIEF. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THIS INFORMATION BEFORE CONSTRUCTION.

**JAMES P COLE WM REPLACEMENT**

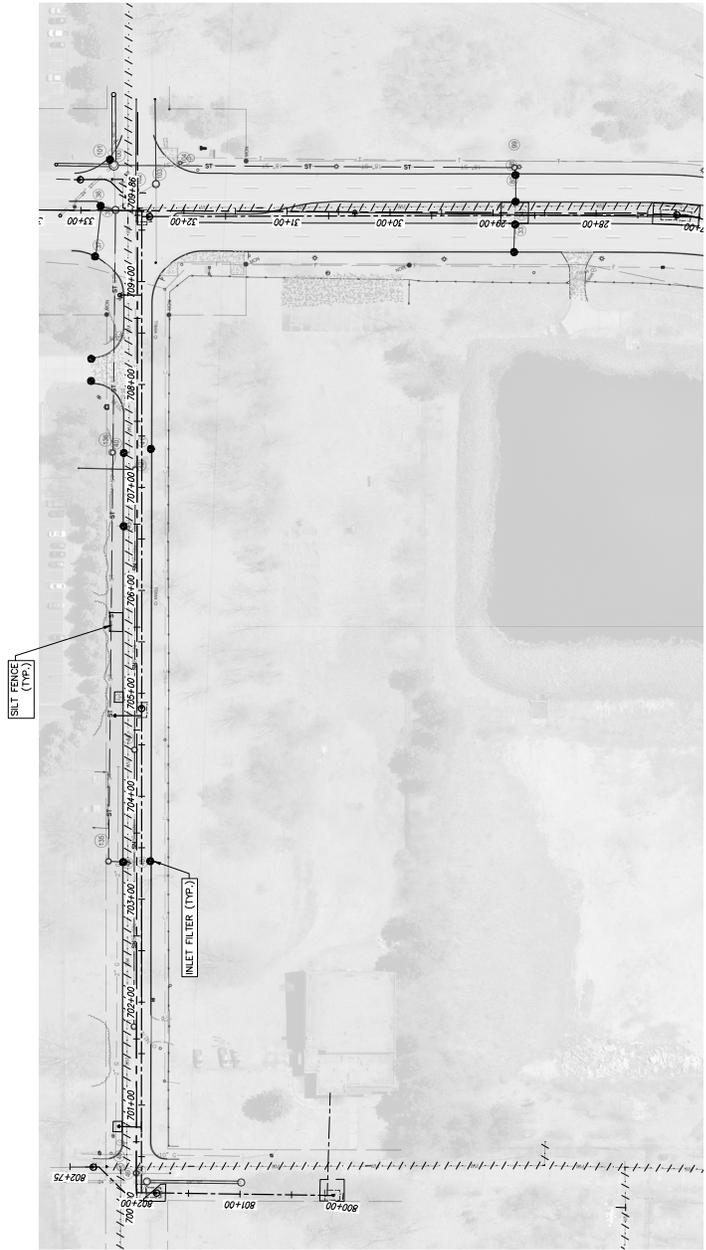
**SOIL EROSION AND SEDIMENTATION CONTROL PLAN - 2**

DISTRICT 6  
 TOWN 36  
 RANGE 7E  
 CITY/TOWNSHIP: CITY OF EMMET  
 COUNTY: EMMET

NO. DATE SUBMITTAL

DATE FOR CONSTRUCTION DRAWING: 8/15/24  
 DATE FOR PERMITS: 8/15/24  
 DATE FOR PERMITS: 8/15/24  
 DATE FOR PERMITS: 8/15/24  
 DATE FOR PERMITS: 8/15/24

IDENTIFICATION: FL23003SECT  
 SCALE: 1"=60'  
 SHEET NO.: 6 OF 24



SESC PLAN VIEW

**SOIL EROSION LEGEND**

○ 3-24 LOW POINT INLET FILTER  
 ○ 3-24 LOW POINT INLET FILTER  
 ○ 3-24 LOW POINT INLET FILTER

SIZE ESTIMATED QUANTITIES - THIS SHEET

ITEM	QUANTITY	UNIT
3-24 LOW POINT INLET FILTER	1	EA
3-24 LOW POINT INLET FILTER	1	EA
3-24 LOW POINT INLET FILTER	1	EA

**Map Unit Legend**

Code	Map Unit Name	Area (Acres)	Percent (Acres)
0000	Open Space	20.7	61.3%
0010	Open Space (with 1% or more)	12.9	38.1%
0020	Open Space (with 1% or more)	0.0	0.0%
0030	Open Space (with 1% or more)	0.0	0.0%

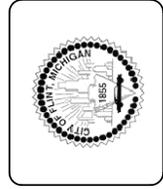
Map Unit Legend  
 0000 - Open Space  
 0010 - Open Space (with 1% or more)  
 0020 - Open Space (with 1% or more)  
 0030 - Open Space (with 1% or more)





**SPALDING DeBECKER**  
 Engineers | Planners | Surveyors  
 Excellence Since 1954  
 27333 Meadowbrook Rd., Suite 210  
 Novi, MI 48377  
 Phone (248) 844-6274  
**Headquarters**  
 Rochester Hills  
**Branch Offices**  
 Detroit | Grand Rapids | Novi | Lansing

www.spaldingdebecker.com  
 (248) 258-2480



**GRAPHIC SCALE**  
 (IN FEET)  
 1" = 30'

**811**  
 Know what's below.  
 Call before you dig.

**UTILITY NOTE**  
 THE EXISTING UTILITIES IN THIS DRAWING WERE RECORDED FROM THE RECORD DRAWINGS AND FIELD SURVEY. THE USER SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.  
 UTILITY INFORMATION ON THIS DRAWING MAY BE FROM THE RECORD DRAWINGS AND FIELD SURVEY. THE USER SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE USER SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE USER SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

**JAMES P COLE WM REPLACEMENT**

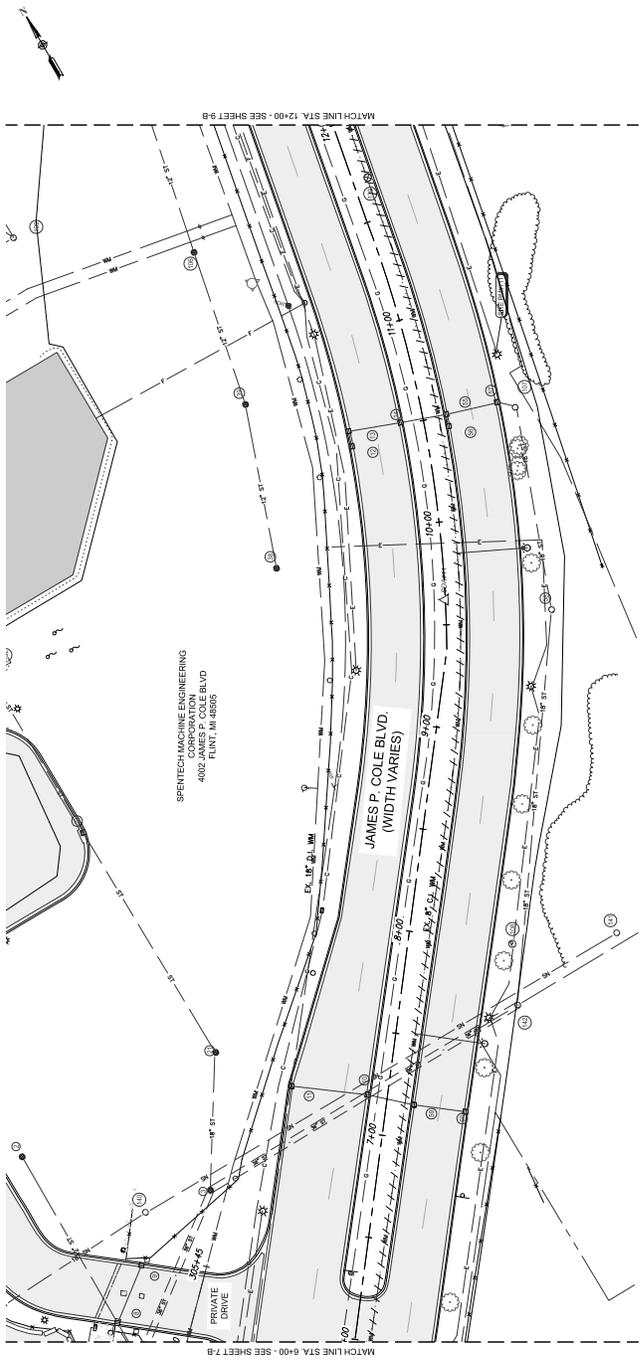
CONSTRUCTION - STA. 6+00 TO STA. 12+00

DISTRICT NO. 6  
 TOWN NO. 36  
 CITY/TOWNSHIP: CITY OF FLINT  
 COUNTY: GENESSE

NO. DATE SUBMITTAL

DATE OF CONSTRUCTION DRAWING: 8/15/24  
 DATE OF FIELD SURVEY: 8/15/24  
 DATE OF DESIGN: 8/15/24  
 DATE OF PERMITS: 8/15/24  
 DATE OF AS-BUILT: 8/15/24

SCALE: 1" = 30' SHEET NO. 6-OF-24



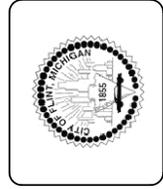
**NO PROPOSED WORK ON THIS SHEET**

**SPALDING DeBECKER**  
 Engineers | Planners | Surveyors  
 Excellence Since 1954  
 27333 Meadowbrook Rd., Suite 210  
 Novi, MI 48377  
 Phone (248) 844-6274

**Headquarters**  
 Rochester Hills

**Branch Offices**  
 Detroit | Grand Rapids | Novi | Lansing

www.spaldingdebecker.com  
 (248) 258-2800



**GRAPHIC SCALE**  
 (IN FEET)  
 1" = 30'

**Know what you're doing.**  
 Call them for help.

**UTILITY NOTE**  
 THE LOCATION OF UTILITIES IS BASED ON RECORD DRAWINGS AND FIELD SURVEY. THE LOCATION OF UTILITIES IS NOT GUARANTEED. THE USER OF THIS DRAWING SHALL VERIFY THE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.

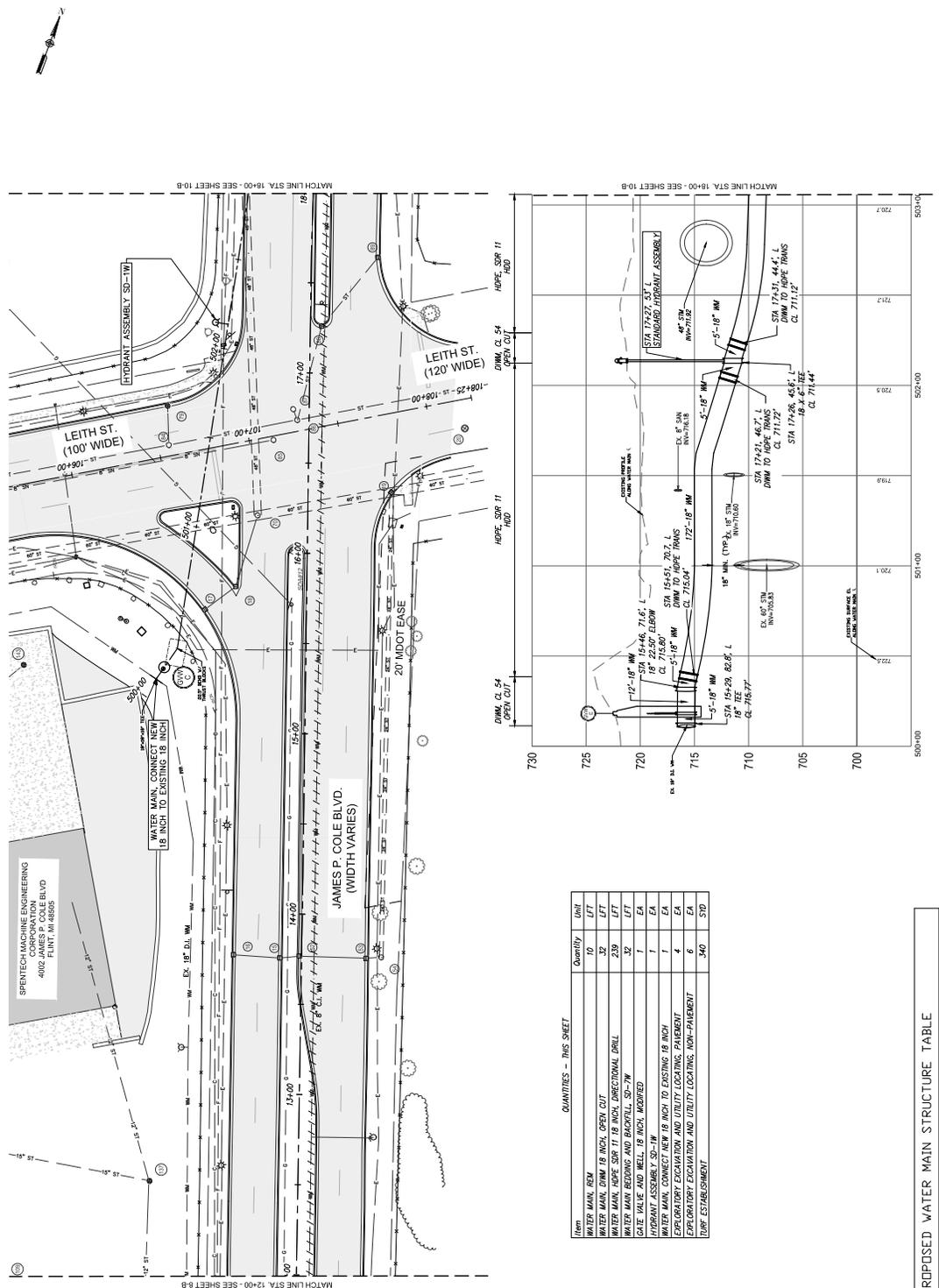
**UTILITY INFORMATION ON THIS DRAWING MAY BE FROM RECORD DRAWINGS, FIELD SURVEY, OR OTHER SOURCES. THE USER OF THIS DRAWING SHALL VERIFY THE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.**

**JAMES P COLE WM REPLACEMENT**

CONSTRUCTION - STA. 12+00 TO 18+00

PROJECT NO.	1200000003
TOWN	NOVI
RANGE	7E
CITY/TOWNSHIP	CITY OF FM7
COUNTY	ORANGE
NO.	
DATE	SUBMITTAL

DATE OF LAST REVISION: 8/15/24  
 DRAWING NO.: 1200000003  
 SHEET NO.: 9 OF 24  
 SCALE: 1" = 30'



**LEGEND**

--- PROPOSED WATER MAIN  
 --- EXISTING WATER MAIN  
 --- EXISTING WATER MAIN  
 --- EXISTING WATER MAIN

**DEVELOPED PROFILE**  
 SCALE: HORIZONTAL 1"=30'  
 VERTICAL 1"=5'

NOTE: PROFILE VIEW SHOWS STATIONING BASED ON THE PROPOSED WATER MAIN ENTERLINE. ROAD CENTERLINE TO BE USED FOR STAKING WHERE AVAILABLE.

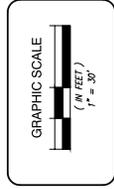
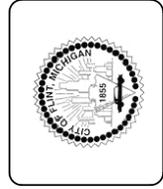
**QUANTITIES - THIS SHEET**

Item	Quantity	Unit
WATER MAIN, NEW	10	LF
WATER MAIN, DIM 18 INCH, OPEN CUT	32	LF
WATER MAIN, HOPE SOR 11 18 INCH, DIRECTIONAL DRILL	239	LF
WATER MAIN BEDDING AND BACKFILL, SD-7M	32	LF
GATE VALVE AND WELL, 18 INCH, ADJUSTED	1	EA
ASSUMED 32 INCH TO 18 INCH TO EXISTING 18 INCH WATER MAIN	1	EA
EXPLORATORY EXCAVATION AND UTILITY LOCATING, NON-PAYMENT	4	EA
TURF ESTABLISHMENT	340	SQ

**PROPOSED WATER MAIN STRUCTURE TABLE**

VALVE #	PROPOSED CENTER OF STRUCTURE		DESCRIPTION
	STATION	OFFSET	
C	15+13	75' L	7225 GATE VALVE AND WELL, 18 INCH





**UTILITY NOTE**  
 UTILITY INFORMATION ON THIS DRAWING MAY BE FROM VARIOUS SOURCES AND IS NOT GUARANTEED. THE USER SHALL VERIFY THE ACCURACY OF ALL UTILITIES SHOWN AND THE DEPTH OF ALL UTILITIES SHOWN AND THE DEPTH OF ALL UTILITIES SHOWN. THE USER SHALL VERIFY THE ACCURACY OF ALL UTILITIES SHOWN AND THE DEPTH OF ALL UTILITIES SHOWN. THE USER SHALL VERIFY THE ACCURACY OF ALL UTILITIES SHOWN AND THE DEPTH OF ALL UTILITIES SHOWN.

**JAMES P COLE WM REPLACEMENT**

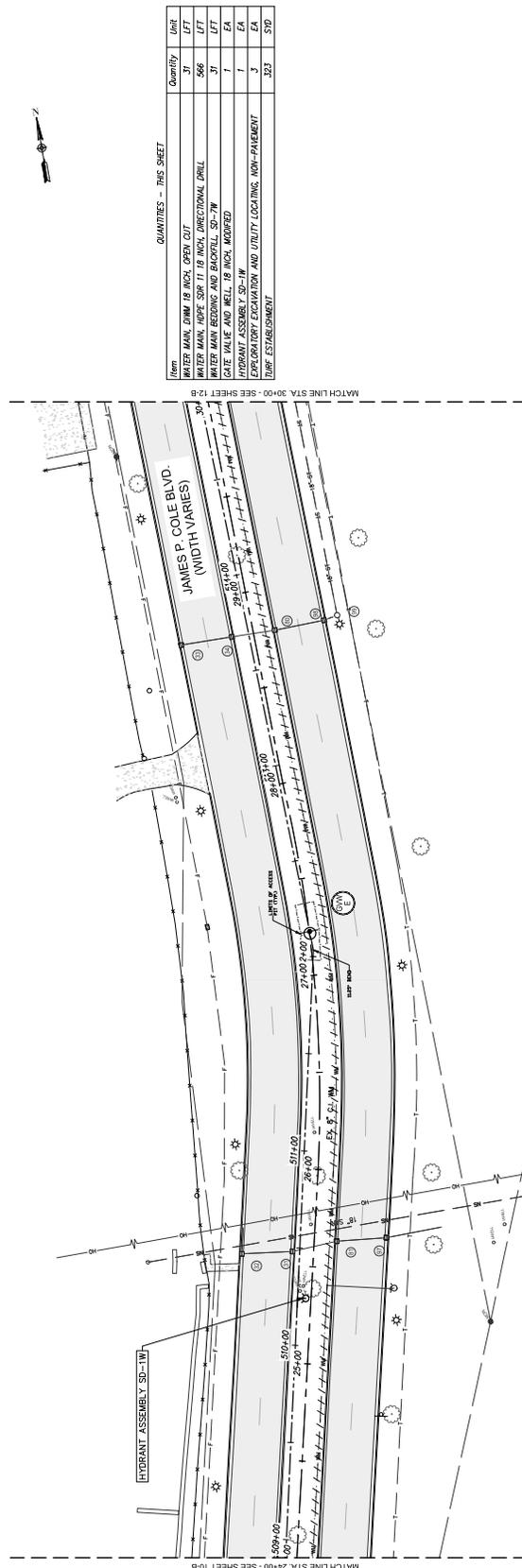
CONSTRUCTION - STA. 24+00 TO 30+00

RANGE #  
 CITY/TOWNSHIP: CITY OF FARM  
 COUNTY: GENESEE

DATE: SUBMITTAL

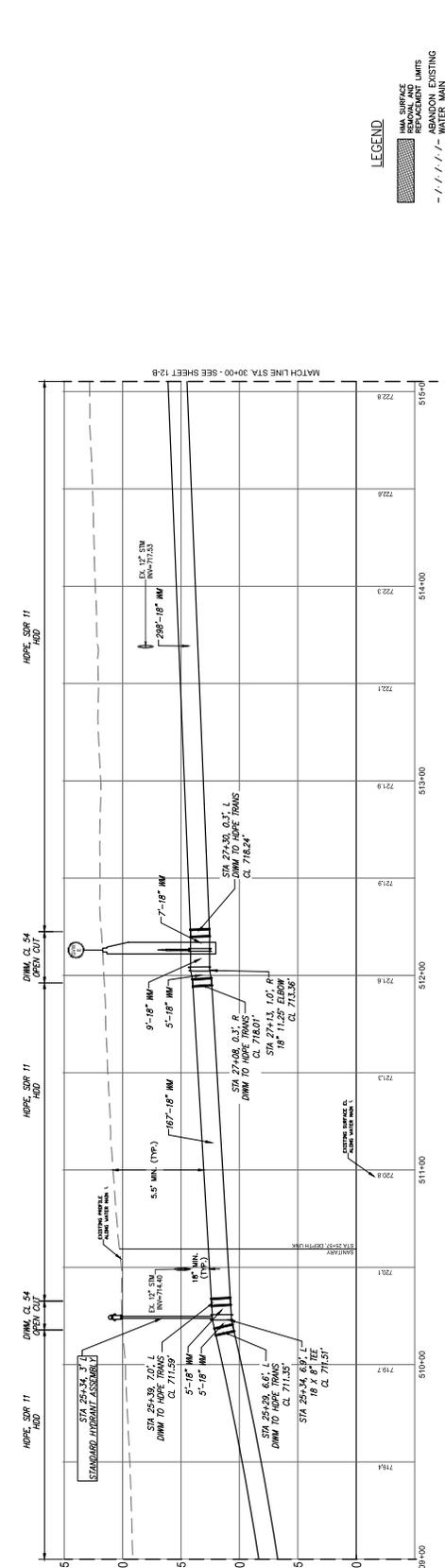
DATE TO DATE: 8/15/24  
 DATE TO DATE: 8/15/24  
 DATE TO DATE: 8/15/24  
 DATE TO DATE: 8/15/24

DATE TO DATE: 8/15/24  
 DATE TO DATE: 8/15/24  
 DATE TO DATE: 8/15/24  
 DATE TO DATE: 8/15/24



**QUANTITIES - THIS SHEET**

Item	Quantity	Unit
WATER MAIN, DNM 18 INCH, OPEN CUT	31	LFT
WATER MAIN, HOPE SOR 11 18 INCH, DIRECTIONAL DRILL	566	LFT
WATER MAIN BEDDING AND BACKFILL, SD-7W	31	LFT
GATE VALVE AND WELL, 18 INCH, MODIFIED	1	EA
HYDRANT ASSEMBLY, SD-1W	1	EA
EXPLORATORY EXCAVATION AND UTILITY LOCATING, NON-PAVEMENT	3	EA
URP ESTABLISHMENT	323	STD



**DEVELOPED PROFILE**

SCALE: HORIZONTAL: 1"=30'  
 VERTICAL: 1"=5'

NOTE: PROFILE VIEW SHOWS STATIONING BASED ON THE PROPOSED WATER MAIN ENTERLINE. ROAD CENTERLINE TO BE USED FOR STAKING WHERE AVAILABLE.

**LEGEND**

- WMA SURFACE
- REPAVEMENT
- WATER MAIN
- ABANDON EXISTING

**PROPOSED WATER MAIN STRUCTURE TABLE**

VALVE #	PROPOSED CENTER OF STRUCTURE		DESCRIPTION
	STATION	OFFSET	
E	27+23	0' R	GATE VALVE AND WELL, 18 INCH









