

2023 Sanitary Sewer Rehabilitation City of Montgomery

This proposal is submitted pursuant to and in accordance with that certain Professional Services Agreement dated May 25, 2021, by and between Ward, Getz & Associates, PLLC and the City of Montgomery (the "City").

WGA understands the City plans to rehabilitate existing sanitary sewer lines located throughout City of Montgomery. The Sanitary Sewer Rehabilitation includes point repairs, pipe replacement, cured-in-place-pipe (CIPP) lining, manhole rehabilitation, and other miscellaneous repairs.

SCOPE OF WORK

- Preliminary & Design Phase Services
 - WGA will complete the conceptual design including boots on the ground review of the existing conditions.
 - WGA will prepare exhibits, repair tables, and specifications, and will prepare final opinions of probable cost for the work.
 - Prepare plan and profile drawings for the lines to be upsized.
 - Obtain approvals from TxDOT.
 - Design changes initiated by the Client after the design is complete may result in a request for additional authorization.
- Construction Administration
 - Coordinate advertising for bids, hold a pre-bid conference, answer questions from bidders, hold bid opening, prepare bid tabulation, and prepare recommendation of award.
 - *Prepare construction contracts and coordinate execution of the same.*
 - Issue notice to proceed and hold pre-construction meeting.
 - Review of construction submittals and RFIs.
 - Preparation of pay estimates, change orders, and other associated construction documents.
 - General oversight and coordination of construction contract.
- Field Project Representation
 - Onsite inspection by a Field Project Representative for approximately 12 hours per week (including travel time) for the duration of the projected contract period of performance (180 days).
 - Onsite inspection by the project team throughout the duration of the project to attend periodic site visits, final walkthrough inspections, etc.



- Additional Services
 - WGA will coordinate with the client, residents, property owners and/or contractor any services deemed necessary to complete the project that was not a part of the original scope of work.
 - WGA will coordinate with the contractor to ensure that the City Council and Community is aware of the construction status and impact.
 - Construction services over 20% of original contract period of performance.
- Video Review
 - WGA will review all pre and post rehabilitation videos, photos, and testing results to ensure the repairs were completed per the specifications.
- Reimbursable Expenses.
 - Any material expenses incurred as a part of this project including shipping, printing services, construction materials testing, and advertising fees.

ENGINEERING COST

The cost to perform the scope of services described above is as follows:

Preliminary & Design Phase -	\$20,000	(Lump Sum)
Construction Administration -	\$30,000	(Time and Materials)
Field Project Representation -	\$40,000	(Time and Materials)
Surveying -	\$8,500	(Time and Materials)
Additional Services & Reimbursable Expenses -	\$24,000	(Time and Materials)

WGA requests City Council's authorization to proceed with the preparation of the design plans for the 2023 Sanitary Sewer Rehabilitation for the City of Montgomery on a lump sum and time and materials basis, as described above.

SCHEDULE

Authorization to Proceed	1	calendar days*
Design & Approvals	90	calendar days
Bidding	30	calendar days
Contracts	30	calendar days
Construction	180	calendar days
TOTAL DURATION	330	calendar days

*If approved, the effective start date is the following business day from the date of authorization.

PRELIMINARY CONSTRUCTION COST ESTIMATE

SANITARY SEWER REHABILITATION

FOR

CITY OF MONTGOMERY

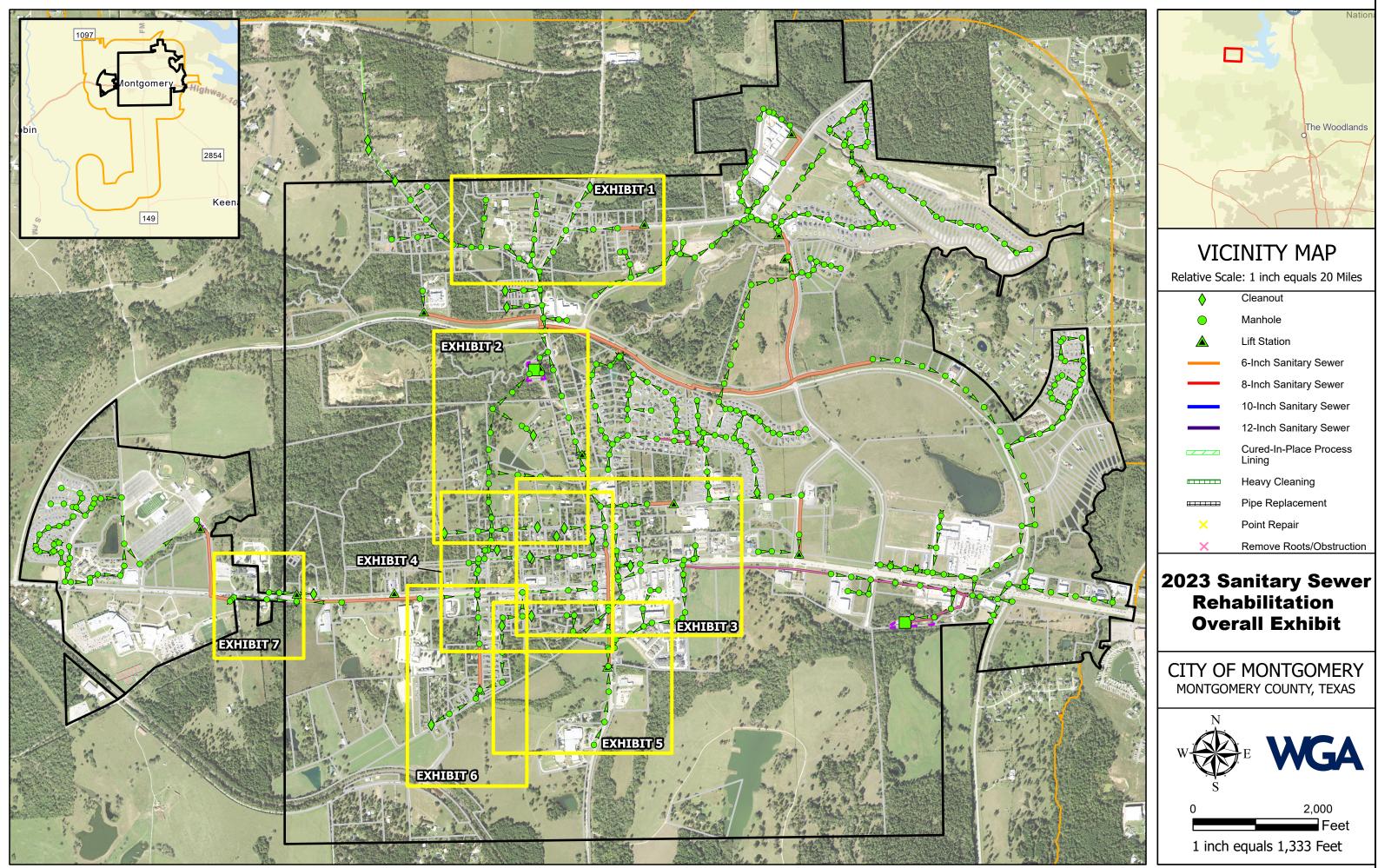
October 21, 2022

ltem <u>No.</u>	Description	<u>Unit</u>	Quantity	Unit <u>Price</u>		<u>Total</u>
	A: GENERAL					
1	Move-in, Bonds & Insurance	LS	1	\$ 35,000	\$	35,000
				TOTAL UNIT A:	\$	35,000
UNIT	B: SANITARY LINE REPAIRS					
2	Removal of Roots/Fixed Obstructions	EA	8	400		3,200
3	Heavy Cleaning of 6-Inch Pipe	LF	156	10		1,600
4	Heavy Cleaning of 8-Inch Pipe	LF	134	10		1,300
5	Removal of Protruding Leads	EA	9	700		6,300
6	6-inch Point Repairs (Standard 6-ft)	EA	2	4,500		9,000
7	8-inch Point Repairs (Standard 6-ft)	EA	8 7	4,750		38,000
8 9	12-inch Point Repairs (Standard 6-ft) Additional Linear Footage for 6-Inch Point Repair	EA LF	2	5,500 90		38,500 200
9 10	8-Inch Pipe Replacement	LF	135	90 110		14,900
10	8-Inch to 12-Inch Pipe Bursting	LF	759	110		136,600
12	Lead Repairs	EA	3	2,250		6,800
13	6-inch CIPP	LF	216	40		8,600
14	8-inch CIPP	LF	4,172	40		166,900
15	12-inch CIPP	LF	868	50		43,400
16	Reconstruction of Service Leads after CIPP	EA	87	50		4,400
				TOTAL UNIT B:	\$	479,700
	C: MANHOLE REPAIRS					
17	Replace Manhole Ring & Lid	EA	3	700		2,100
18	Re-Seal Manhole Ring & Throat ⁽²⁾	EA	15	1,600		24,000
19	Re-Seal Pipe Connection	EA	1	400		400
20	Insert Infiltration Dish	EA	3	400		1,200
21	Vertical Adjustment of Ring & Lid to Grade	EA	1	750		800
22	Grout Manhole Exterior	EA	3	450		1,400
23	Epoxy Coat Manhole ⁽²⁾	VF	22	150		3,300
24	Reseal Manhole Joints	EA	6	500		3,000
25	Cementitious Grout ⁽²⁾	VF	21	130		2,700
26	Cementitious Grout & Epoxy Coating ⁽²⁾	VF	6	250		1,500
27	Heavy Clean Manhole	EA	1	1,600		1,600
				TOTAL UNIT C:	\$	42,000
	D: MISCELLANEOUS					
28	Traffic Control Plan	LS	1	20,000		20,000
28	Final Project Report	LS	1	2,000		20,000
25		25	-	TOTAL UNIT D:	\$	22,000
					•	
UNIT	E: ALTERNATE REPAIRS					
30	8-inch CIPP	LF	2,298	40		91,900
31	Re-Seal Manhole Ring & Throat ⁽²⁾	EA	5	1,600		8,000
32	Insert Infiltration Dish	EA	4	400		1,600
33	Epoxy Coat Manhole ⁽²⁾	VF	25	150		3,800
34		EA	6	500		3,000
35	Cementitious Grout ⁽²⁾	VF	25	130	<u> </u>	3,300
				TOTAL UNIT E:	\$	111,600
			Subtota	(Units A-D only)	\$	578,700
				ototal (Units A-E)	\$	690,300
				tingencies (10%)	Ŷ	69,000
			2011	Engineering		20,000
			Constructio	n Administration		30,000
				t Representation		40,000
				ursable Expenses		32,500
			TOTA	L (Base Bid Only)	\$	770,200
			TOTAL (B:	ase + Alternates)	\$	881,800
Notes					Ŧ	

Notes:

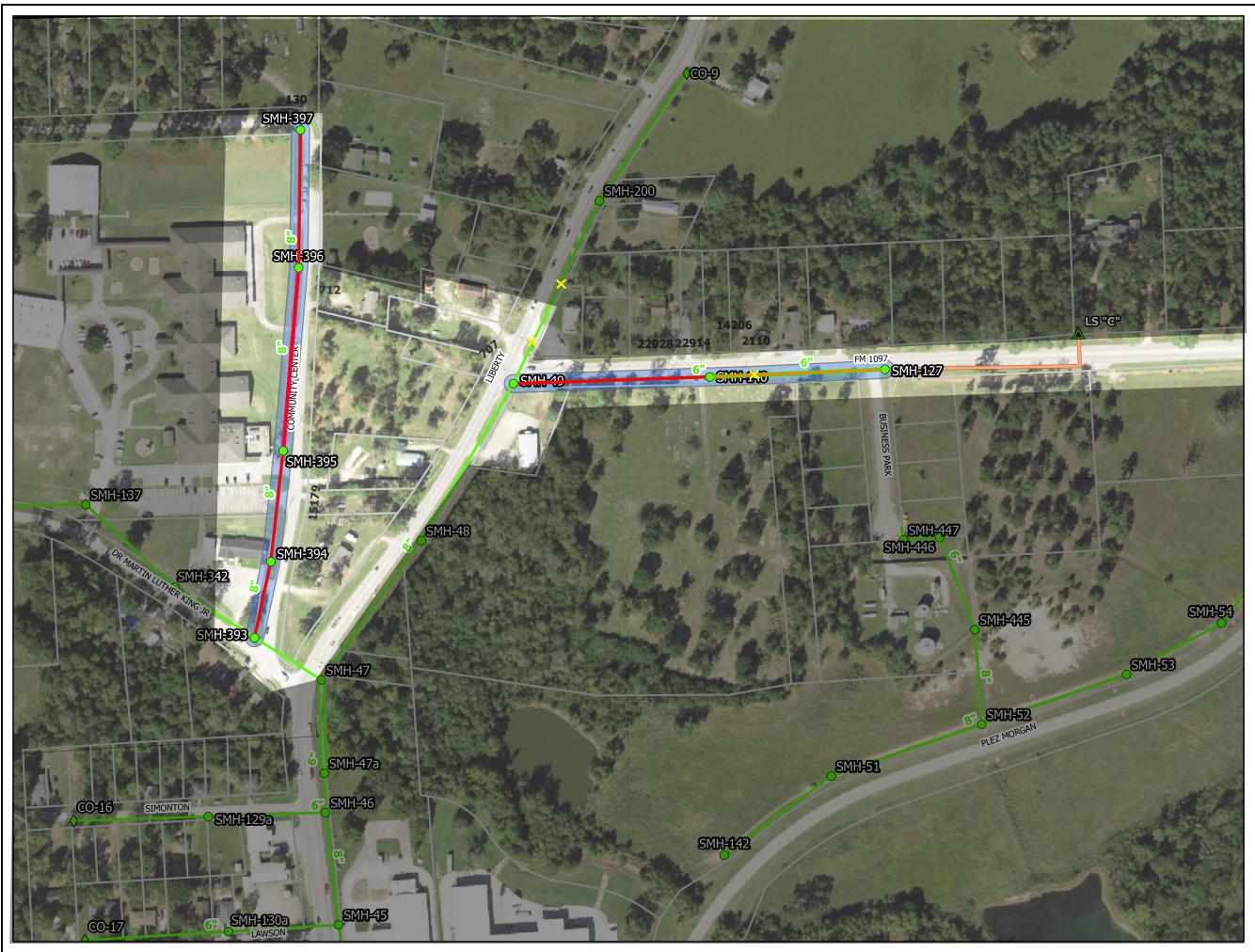
CONSULTING ENGINEERS

- This estimate represents my best judgement as a design professional familiar with the construction industry. WGA has no (1) control over the cost of labor, materials, or equipment; over the Contractor's methods of determining bid prices; or over competitive bidding or market conditions. Accordingly, we cannot and do not guarantee that bids will vary from this cost estimate.
- (2) Quanitities are incomplete due to manhole survey data provided not including all manhole depths. Vertical lengths to be field verified during construction by contractor.



Path: Z:\00574 (City of Montgomery)\002 2022 CCTV\ENGR\2023 Sanitary Sewer Rehab Exhibit

\diamond	Cleanout
\bigcirc	Manhole
	Lift Station
	6-Inch Sanitary Sewer
	8-Inch Sanitary Sewer
	10-Inch Sanitary Sewer
	12-Inch Sanitary Sewer
	Cured-In-Place Process Lining
	Heavy Cleaning
	Pipe Replacement
×	Point Repair
×	Remove Roots/Obstruction

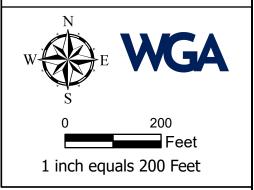


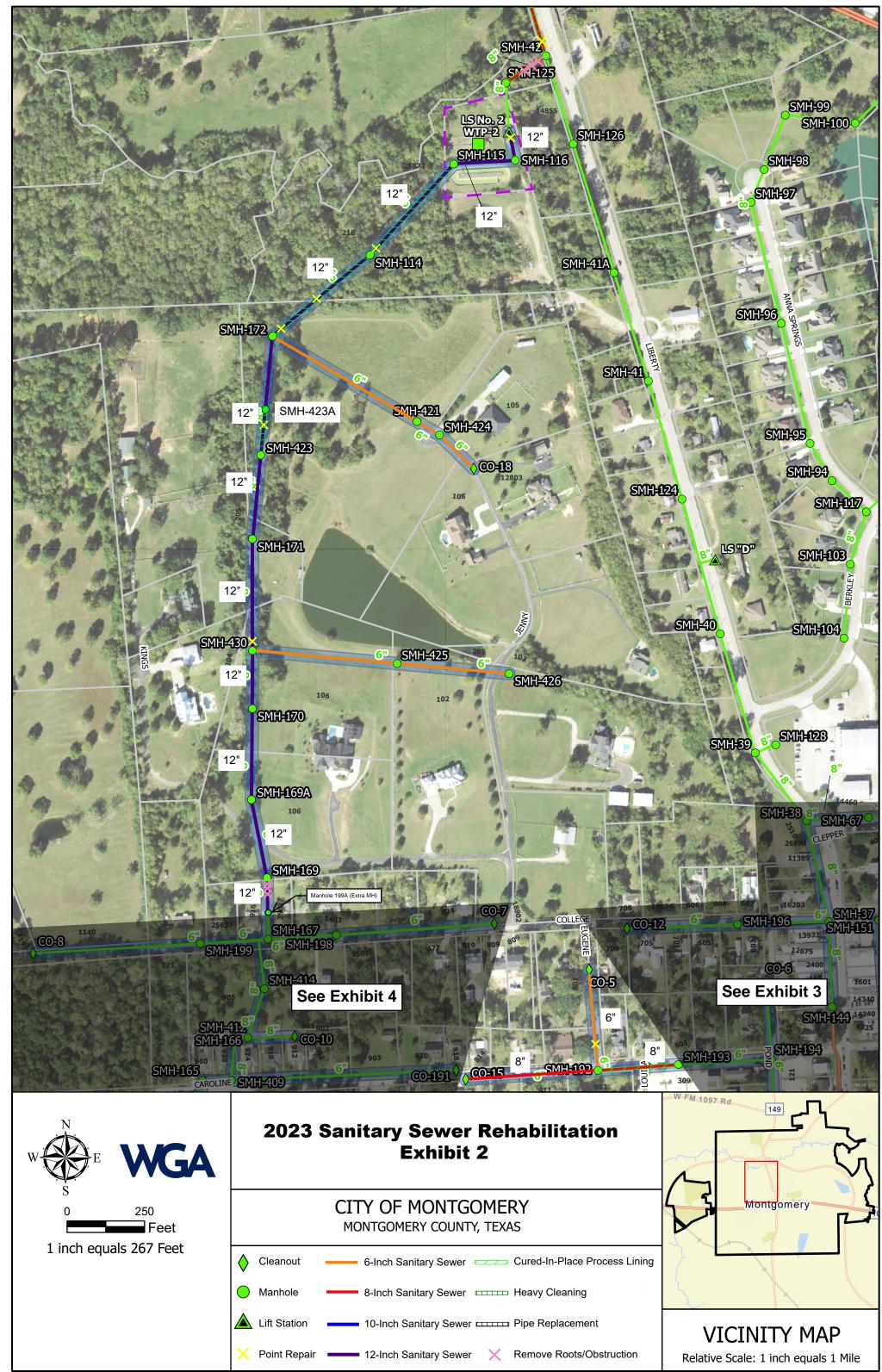
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VICINITY MAP Relative Scale: 1 inch equals 1 Mile			
♦	Cleanout		
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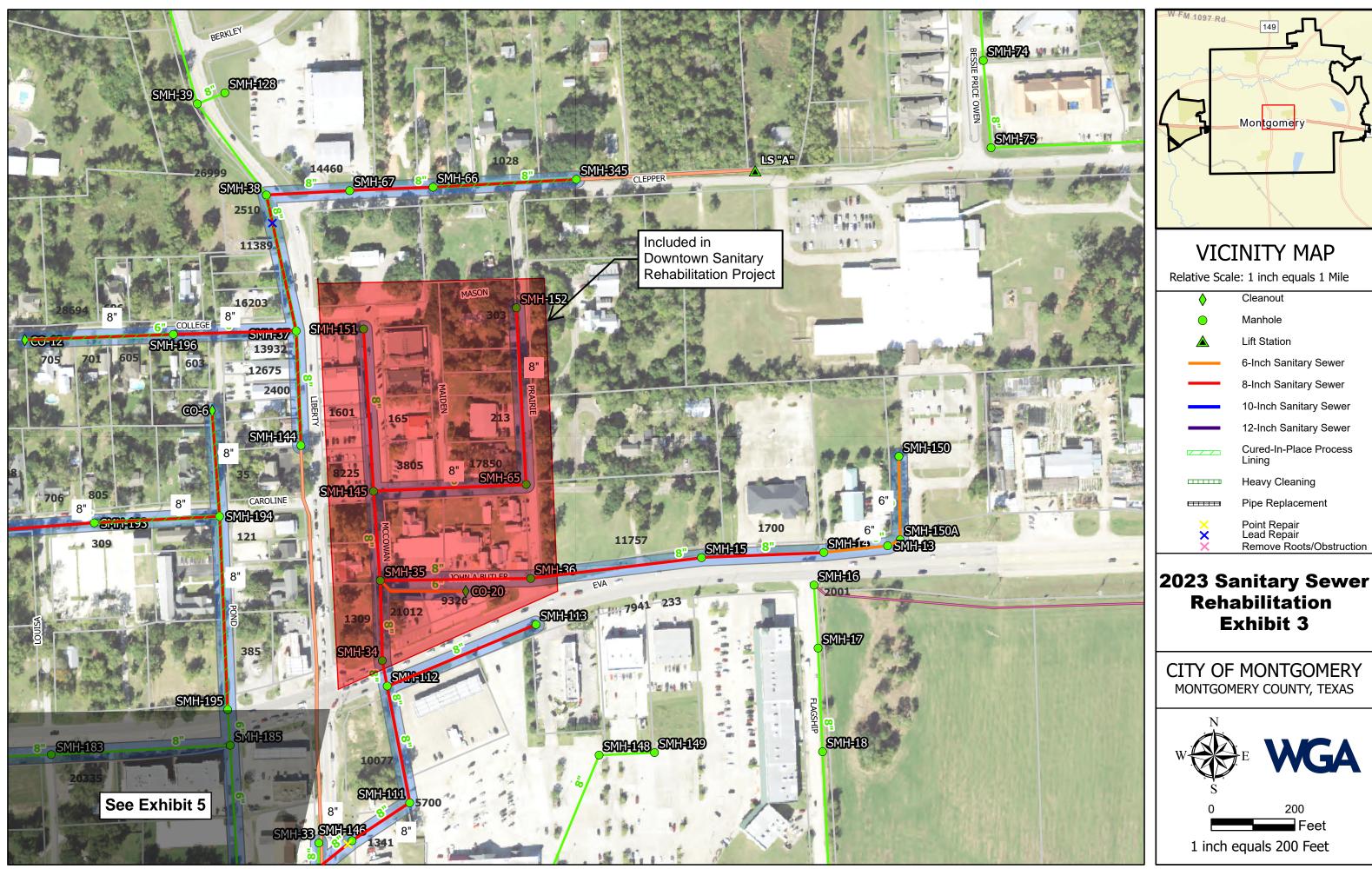
2023 Sanitary Sewer Rehabilitation Exhibit 1

CITY OF MONTGOMERY MONTGOMERY COUNTY, TEXAS

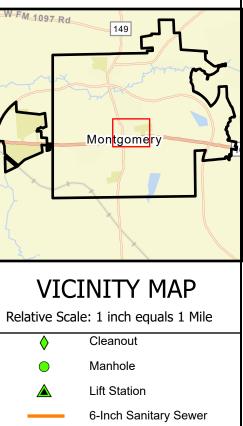




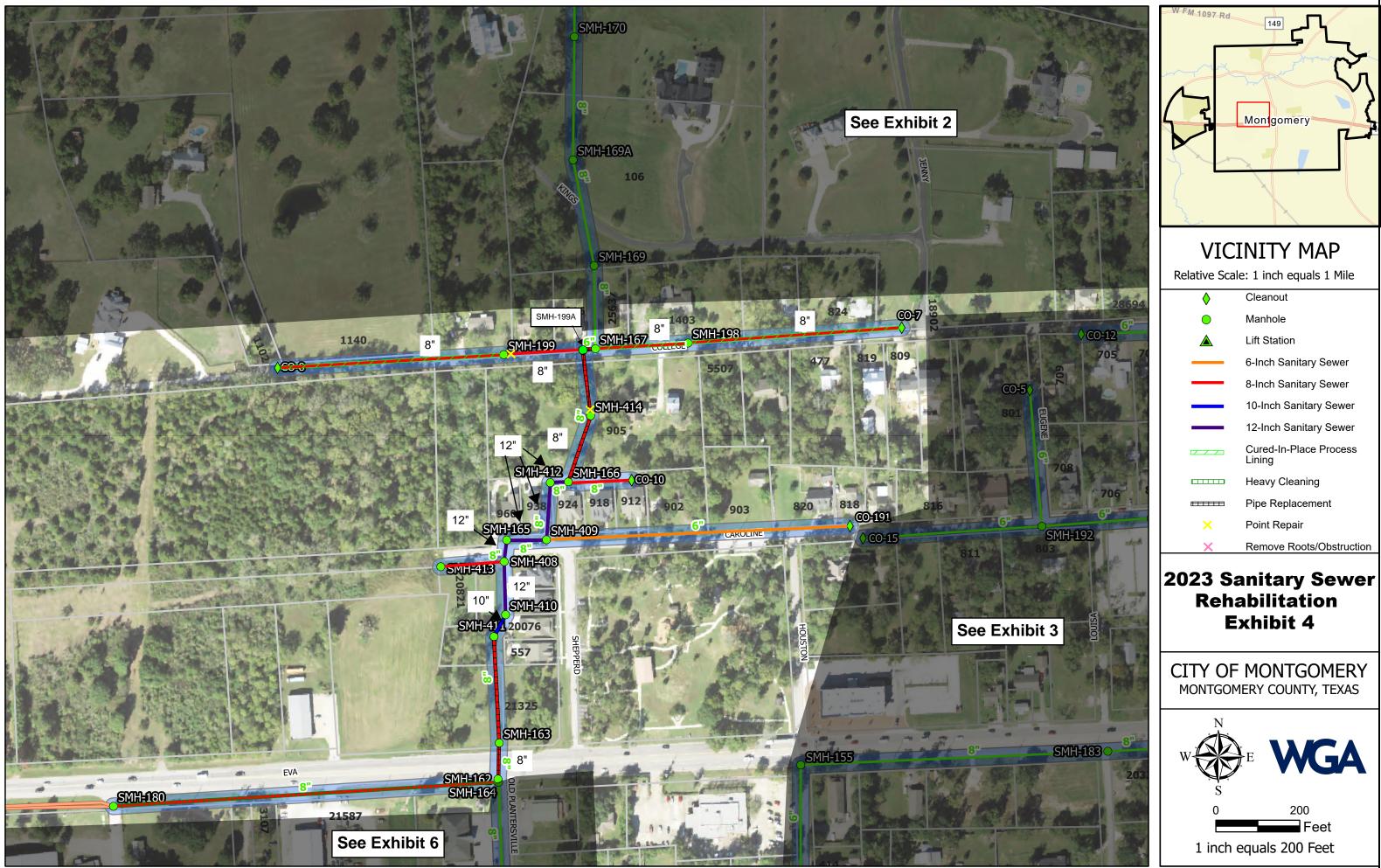
Texas NAIP Aerial Imagery Collected 4/1/2020



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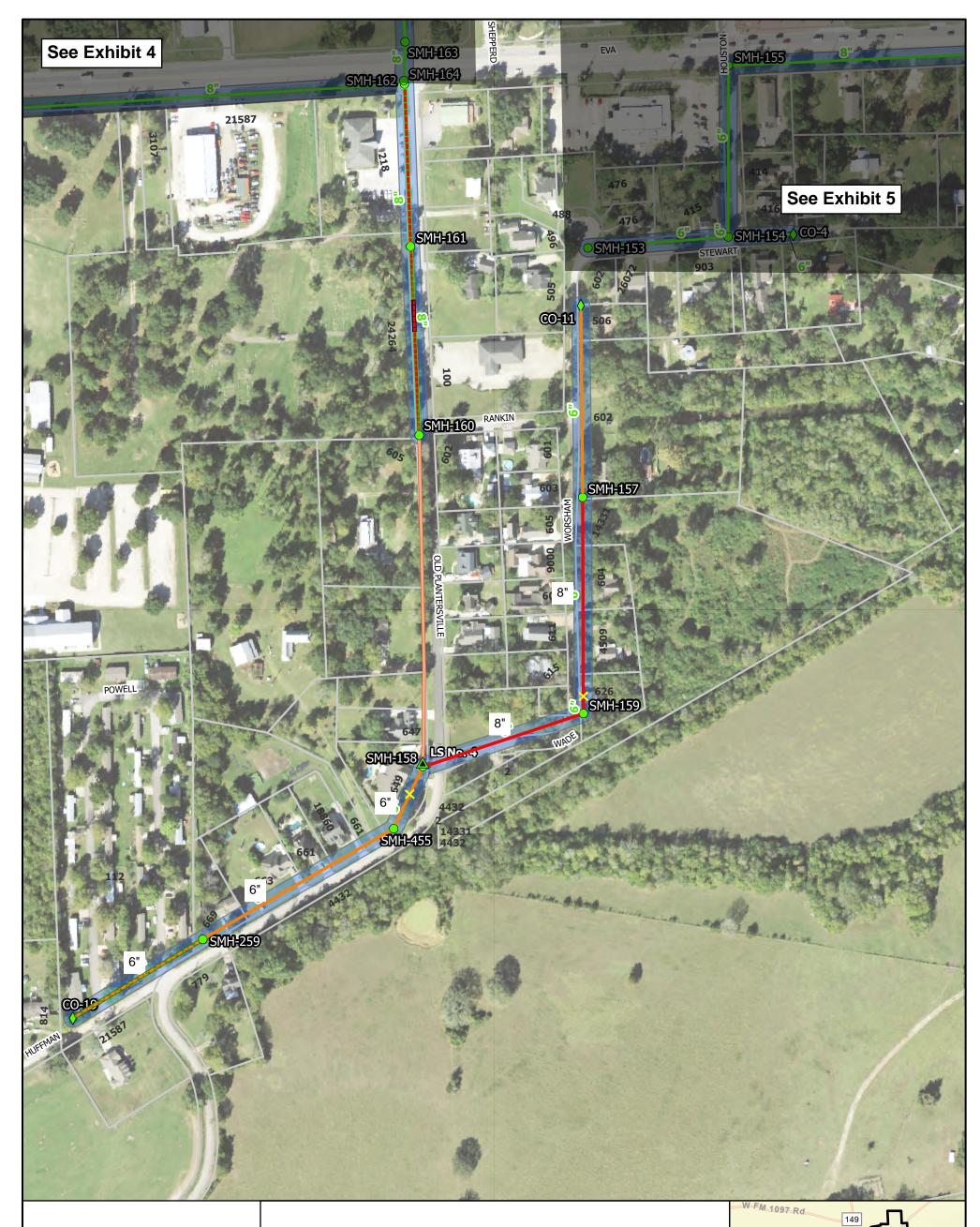


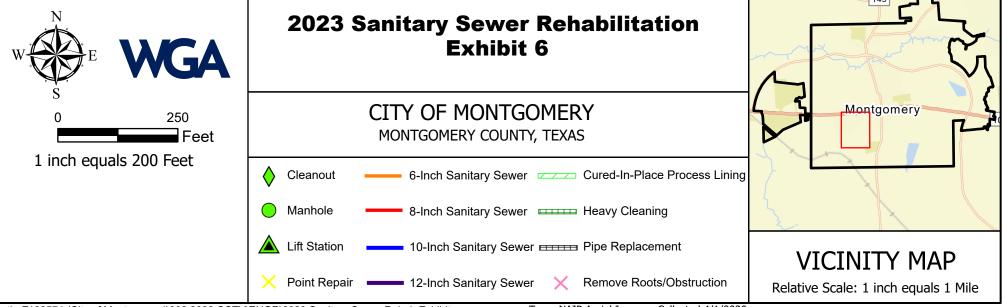
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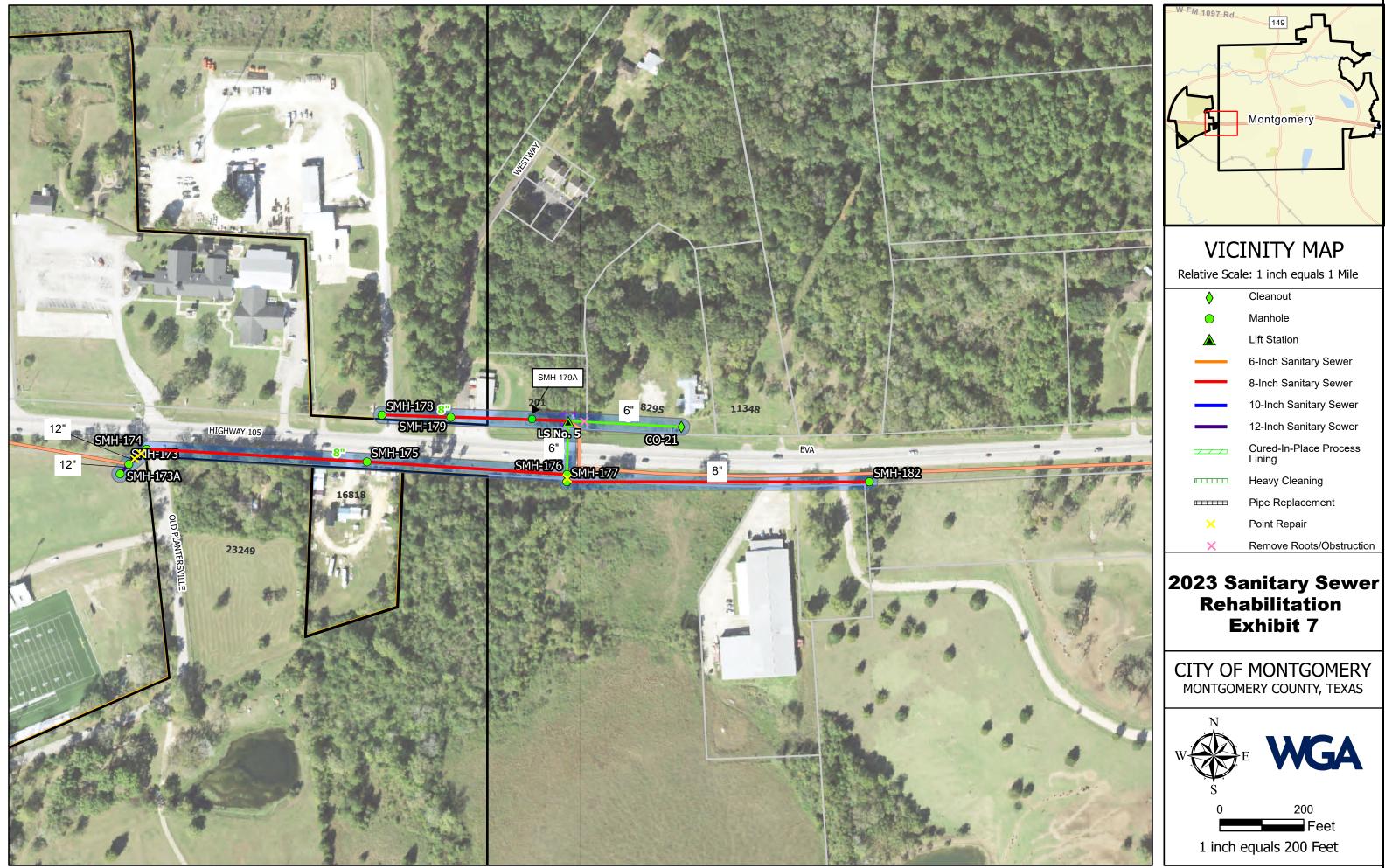


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Texas NAIP Aerial Imagery Collected 4/1/2020



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