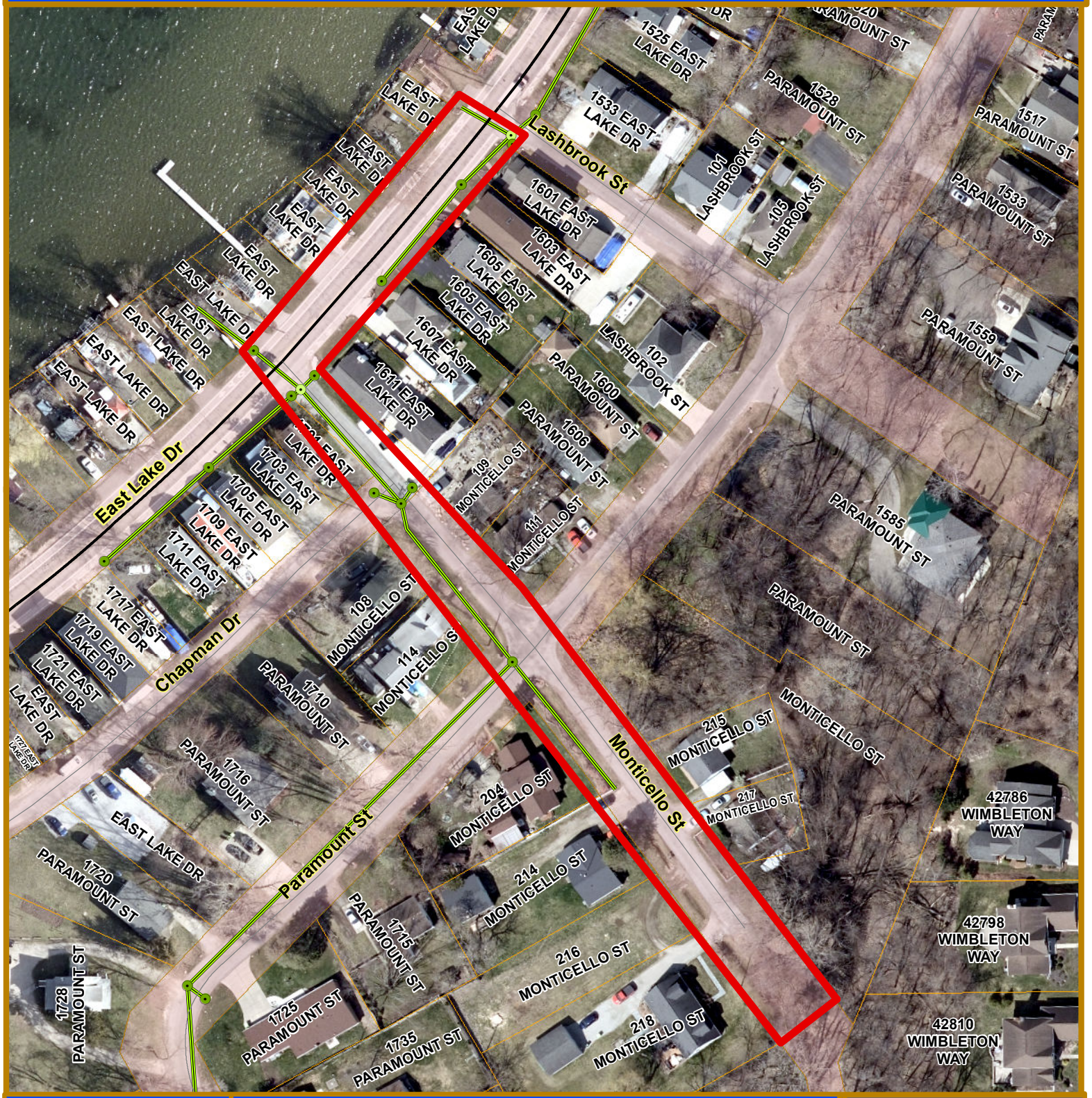
East Lake Drive Drainage Improvements

Location Map



Map Author: Runkel
Date: 9-17-24
Version #: 1.0

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

Legend

- Project Area
- Stormwater Inlet
- Storm Sewer
- Stormwater Manhole
- Right of Way - Novi Edits

City of Novi
Engineering Division
Department of Public Works
26300 Lee BeGole Drive
Novi, MI 48375
cityofnovi.org

0 20 40 80 120
Feet
1 inch = 96 feet

SPALDING DEDECKER
Engineering & Surveying Excellence since 1954

September 10, 2024

Mr. Ben Croy
City Engineer
City of Novi
26300 Lee Begole Drive
Novi, MI 48375

Re: East Lake Drive - Storm Sewer Design
City of Novi
SDA No. NV23007

Dear Mr. Croy,

Spalding DeDecker (SD) is pleased to have this opportunity to present this proposal for engineering design services based on the recommendations from our previous investigation into the stormwater issues along East Lake Drive where a culvert and outlet are failing near Monticello Street.

Project Understanding

SD understands that to improve drainage along Monticello Drive, the existing stormwater system and outlet into Walled Lake needs to be upsized to 24"-30" pipes to handle the large contributing drainage area which includes the detention pond discharge from the neighborhood south of 13 Mile. A proposed pipe was preliminarily sized at 24 inches and was modeled to confirm the reduction in surcharging during a 10-year event.

In February 2024, SD provided the City with an exhibit with two potential options and associated construction cost estimates. As shown in the attached exhibit, the two options include enclosing the existing drainage system and either obtaining an easement to replace the existing outlet or rerouting the storm sewer to outlet at the City owned parcel near the intersection of East Lake Drive and Lashbrook Street. Because a drainage easement at the current outfall location cannot be confirmed, it is recommended that the stormwater be rerouted to the north to the adjacent outlet.

Proposed Scope of Services

SD's scope will include:

- Prepare a topographic survey of the tributary drainage area and storm sewer route to obtain all surface features and surface elevation information.
- Obtain geotechnical investigation and report of existing pavement and subsurface conditions.
- Review and implement current documentation for existing utilities into the design to minimize conflicts in construction.
- Prepare preliminary layout and cost estimate for review.
- Prepare 70% plans and specifications for review by the City of Novi.
- Prepare MDEQ permit applications for submittal.
- Prepare final plans and specifications for review.

- Prepare bid documents.
- Assist the City during the bidding process as needed.

Construction Cost Estimate and Proposed Fees
Based on our pre-qualification status with the City, engineering design fees are typically based on a pre-determined percentage of the pre-design construction cost estimate. A preliminary cost estimate for the project has been generated with an estimated cost of $581,150.00. Based on this estimated cost, the fee for this project will be:

Design Phase Services (8.75% of estimated cost) - **$50,851.00**

Project Schedule
The following summarizes the anticipated schedule for the project:

Milestone	Completed By
Design Project Award	Sep 2024
Initial Meetings and Site Visits	late Sep 2024
Survey Field Work	Oct 2024
70% Preliminary Plans	Dec 2024
MDEQ Permit Submittals	Dec 2024
90% Final Plans	Feb 2025
100% Bid Package & Advertising	Mar 2025
Bid Opening	Apr 2025
Award by Council	early May 2025
Construction Start	Jun 2025
Construction Completion	Sep 2025

Thank you for the opportunity to submit this proposal, and we look forward to continuing our work with the City on this effort. If you find this proposal acceptable, please sign and return one copy to our office and retain one for your records. If you wish to discuss this proposal or require additional information, please feel free to contact me.

Sincerely,
Spalding DeDecker

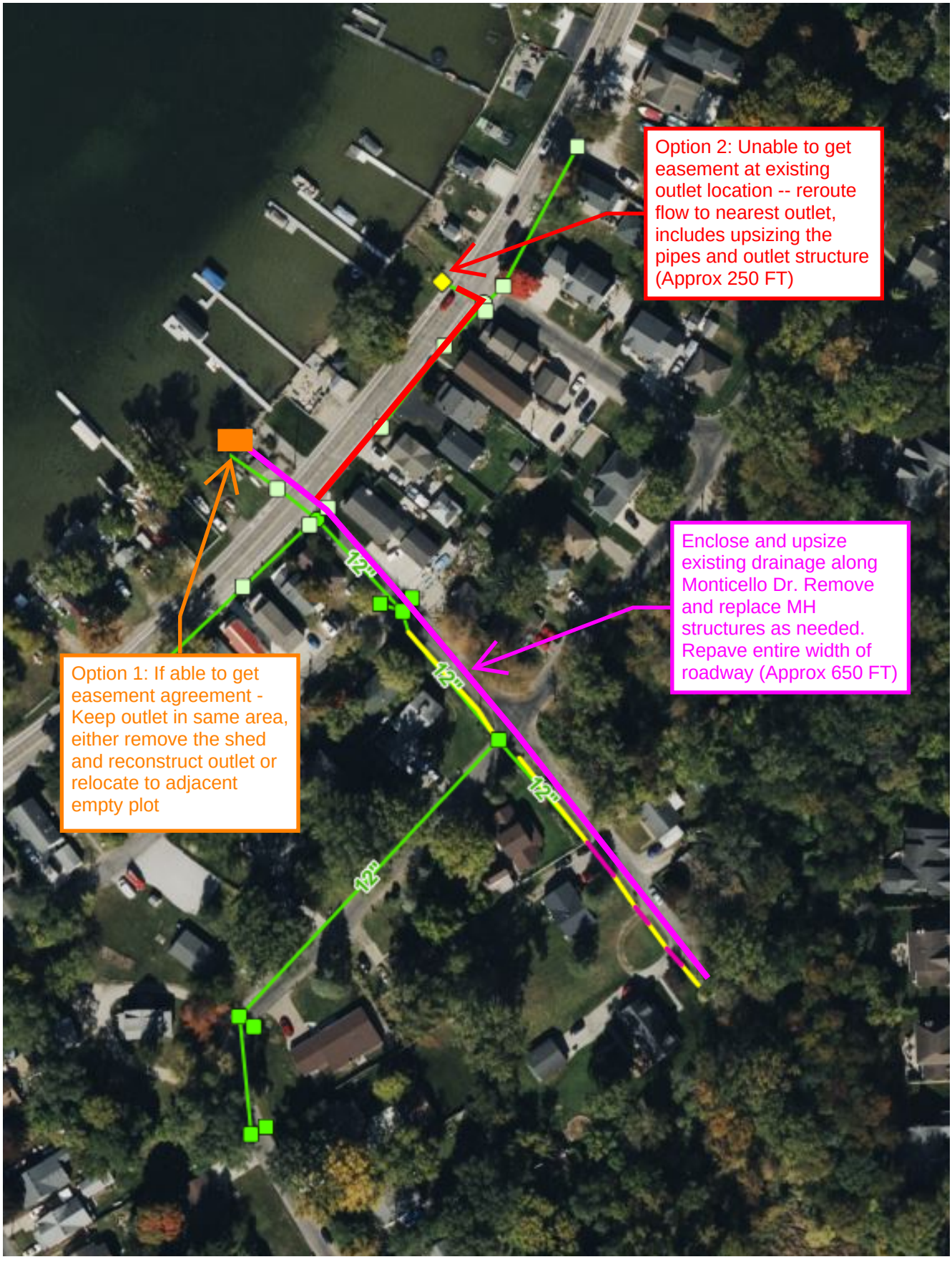
Jeremy Schrot, PE
Public Engineering Director

Accepted by:
City of Novi

_____

Date: _____

NV23007 - Eastlake Drive Drainage Improvement
Preliminary Plan to Address Drainage Issue



SPALDING DEDECKER
Engineering & Surveying Excellence since 1954

905 South Blvd. East
Rochester Hills, MI 48307
www.sda-eng.com
Phone (248) 844-5400 | Fax (248) 844-5404

Project: Eastlake Drive Drainage Improvements
Client: City of Novi
By: APL

Proj. No: NV23007
Date: 9/10/2024

OPINION OF PROBABLE CONSTRUCTION COST

		Unit	Qty	Unit Price	Item Cost
1	Bonds, Insurance and Mobilization (10% Max)	LS	1	$ 51,000.00	$ 51,000.00
2	Pre-Construction Audio-Visual	LS	1	$ 3,000.00	$ 3,000.00
3	Clearing	LS	1	$ 10,000.00	$ 10,000.00
4	Soil Erosion & Sediment Control	LS	1	$ 6,000.00	$ 6,000.00
5	Tree Protection Fencing	LF	100	$ 5.00	$ 500.00
6	Pavt, Rem	SYD	2000	$ 20.00	$ 40,000.00
7	Excavation, Earth	CYD	50	$ 50.00	$ 2,500.00
8	Embankment	CYD	100	$ 30.00	$ 3,000.00
9	8" Aggregate Base	SYD	2000	$ 20.00	$ 40,000.00
10	4" HMA	TON	470	$ 150.00	$ 70,500.00
11	Temporary Traffic Control	LS	1	$ 40,000.00	$ 40,000.00
12	Sewer, Rem, Less than 24 inch	FT	120	$ 20.00	$ 2,400.00
13	Sewer, Abandon (Fill with Grout)	CYD	12	$ 300.00	$ 3,600.00
14	Sewer, 12 inch	FT	200	$ 150.00	$ 30,000.00
15	Sewer, 24 to 30 inch	FT	880	$ 220.00	$ 193,600.00
16	Sewer Tap, 12 inch	EA	2	$ 500.00	$ 1,000.00
17	Dr Structure Tap, 12 inch	EA	3	$ 1,000.00	$ 3,000.00
18	Sewer Bulkhead, 12 inch	EA	8	$ 350.00	$ 2,800.00
19	Dr Structure, Rem	EA	3	$ 750.00	$ 2,250.00
20	Dr Struture, 48 inch dia	EA	2	$ 5,500.00	$ 11,000.00
21	Dr Structure, 60 inch dia	EA	5	$ 7,500.00	$ 37,500.00
22	Outlet Structure, Abandon	EA	1	$ 5,000.00	$ 5,000.00
23	Outlet Structure	EA	1	$ 10,000.00	$ 10,000.00
24	Permits	DLR	2500	$ 1.00	$ 2,500.00
25	Restoration	LS	1	$ 10,000.00	$ 10,000.00
				Construction Subtotal	**$ 581,150.00**
				ENGINEERING FEES (8.75%):	$ 50,851.00
				ROW ACQUISITION ($2700/PERMANENT EASEMENT):	$ -
				GEOTECHNICAL (2.5%):	$ 14,528.75
				DESIGN CONTINGENCY (20%):	$ 13,076.00
				CONSTRUCTION ADMINISTRATION (6.00%):	$ 34,869.00
25		Crew Days:	45	DAYS @ $ 800.00	$ 36,000.00
				CONSTRUCTION MATERIAL TESTING (2.5%):	$ 14,528.75
				CONSTRUCTION CONTINGENCY (10%):	$ 66,655.00
				Total Estimated Cost:	**$811,658.50**

OPINION OF PROBABLE CONSTRUCTION COST

In providing opinions of probable construction cost, the Client understands that the Consultant has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's opinions of probable construction costs are made on the basis of the Consultant's professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant's opinion of probable construction cost.