



Memo

To: Honorable Mayor Armitage; City Council
From: Amy E. Gilson, PE - Director of Public Works
Date: April 12, 2022
Re: Staff report on Island Highway Reconstruction

Background

Island Highway from Lansing Road to the I-69 bridge approach is a Major Street maintained by the City. The Eaton County Drain Commissioner is in the process of replacing the Cummings Drain that runs along Island Highway for approximately 600 feet. As part of that project, they will be replacing approximately 75% of those 600 feet of the road. They have approached us about participating in the additional 25% of that road so the entire width of the road can be reconstructed. They also asked if we would be interested in reconstructing the entire portion of Island Highway as part of their project. The limits would be from Lansing Road to the approach to the I-69 bridge, approximately 1,500 linear feet. The last PASER rating on that road was a 2, which is at the bottom of the 1-10 scale used to rate roads.

All of the work would be done by the consultant in charge of the project for the Drain Commissioner, LRE Engineers and Surveyors. Attached is a boiler plate agreement allowing them to perform this work for us through the Drain Office. Please note that these costs represent the City's supplemental benefit amount and not the total cost of the project. Cost estimates for the City's road benefits are attached.

Estimated Construction Cost

600-foot section: \$ 81,100.00
Entire Section: \$ 490,000.00

Recommendation

Island Highway is one of the gateways to the City and gives visitors a first impression of Charlotte. After reviewing the cost estimates, I am recommending that the City move forward with the reconstruction of the entire section of Island Highway under City jurisdiction at an estimated cost of \$ 490,000.00, with the understanding that the final cost will be based on actual unit prices and quantities constructed.

Financial Impacts

The project would be paid for out of the Major Street Fund and will have no effect on the General Fund. It has not in the current budget, but a budget amendment can be processed for the work. Additionally, ARPA funds can be used for this project.

Suggested Motion

City Council approves the contract with LRE and the Drain Commissioner for the reconstruction of City's portion of Island Highway pending attorney approval of the contract.

**AGREEMENT
CUMMINGS DRAIN**

THIS AGREEMENT, made and entered this _____ day of _____, 20__, by and between the Cummings Drain Drainage District (“Drainage District”) under the jurisdiction of the Eaton County Drain Commissioner (“Drain Commissioner”), and the City of Charlotte, Michigan (“City”).

WHEREAS, the Drainage District is an established body corporate in the County of Eaton, State of Michigan, pursuant to Act 40 of the Public Acts of 1956 of the State of Michigan, as amended (“Drain Code”); and

WHEREAS, the Cummings Drain (“Drain”) is being maintained and improved pursuant to the Drain Code (“Project”); and

WHEREAS, the City desires that the Project be expanded to include additional pavement/road replacement work as described and depicted in **Exhibit A** (“Road Replacement”).

WHEREAS, pursuant to Section 281 of the Drain Code, MCL 280.281, the City agrees to pay the additional costs related to Road Replacement, consistent with the final cost terms described in the attached **Exhibit A** (“Supplemental Assessment Amount”), in addition to its at large assessment for public health and City road benefits for the Project.

NOW, THEREFORE, the parties hereto agree as follows:

1. The Drainage District shall include the additional Road Replacement as a part of the Project to maintain and improve the Drain pursuant to the Drain Code.
2. City agrees to pay the Supplemental Assessment Amount, in addition to its at large assessment for public health and City road benefits for the Project.
3. An estimate of the Supplemental Assessment Amount is included in **Exhibit A**. However, the finalized Supplemental Assessment Amount shall be determined after the Project’s bid letting occurs. The finalized Supplemental Assessment Amount shall be based on applying the final cost terms contained in **Exhibit A** to the applicable bid totals of the Drainage District’s accepted bid for Project.
4. After the Project is bid and the finalized Supplemental Assessment Amount is determined, consistent with the cost sharing terms set forth in **Exhibit A**, the Drainage District shall submit a final accounting of said costs to the City.
5. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, with the same effect as if the signatures thereto and hereto were upon the same instrument.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by the duly authorized officers as of the day and year first above written.

**CUMMINGS DRAIN
DRAINAGE DISTRICT**

Dated: _____

Richard Wagner
Eaton County Drain Commissioner

CITY OF CHARLOTTE

Dated: _____

By: Michael Armitage
Its: Mayor

EXHIBIT A

EXHIBIT A

ESTIMATE OF ISLAND HWY RECONSTRUCTION

Cummings Drain Improvements

Date: December 9, 2021



Item	Description	Qty.	Unit	Price	Amount
1	Mobilization, Max 5%	1	LS	\$ 22,000.00	\$ 22,000.00
2	Traffic Control	1	LS	\$ 20,000.00	\$ 20,000.00
3	Roadway Grading	17	Sta	\$ 1,000.00	\$ 17,000.00
4	Cold Milling HMA Surface	6,400	Syd	\$ 3.50	\$ 22,400.00
5	12 inch Subbase, CIP (MDOT CL II)	2,200	Cyd	\$ 12.00	\$ 26,400.00
6	8" Aggregate Base (MDOT 22A)	6,400	Syd	\$ 13.00	\$ 83,200.00
7	Shoulder, CI II, 6 inch	1,200	Syd	\$ 15.00	\$ 18,000.00
8	HMA, 13A (6" total)	1,900	Ton	\$ 80.00	\$ 152,000.00
9	HMA Approach	300	Ton	\$ 110.00	\$ 33,000.00
10	Structure Adjustment	2	EA	\$ 250.00	\$ 500.00
11	Pavt Mrkg, Waterborne, 4 inch, Yellow	3,800	FT	\$ 0.50	\$ 1,900.00
12	Pavt Mrkg, Waterborne, 6 inch, White	3,800	FT	\$ 0.50	\$ 1,900.00
13	Underdrain, Subgrade, 6 inch	3,800	FT	\$ 6.00	\$ 22,800.00
14	Underdrain Outlet, 6 inch	300	FT	\$ 15.00	\$ 4,500.00
15	Underdrain Outlet Ending, 6 inch	12	Ea	\$ 200.00	\$ 2,400.00
16	Slope Restoration	4,000	Syd	\$ 4.25	\$ 17,000.00

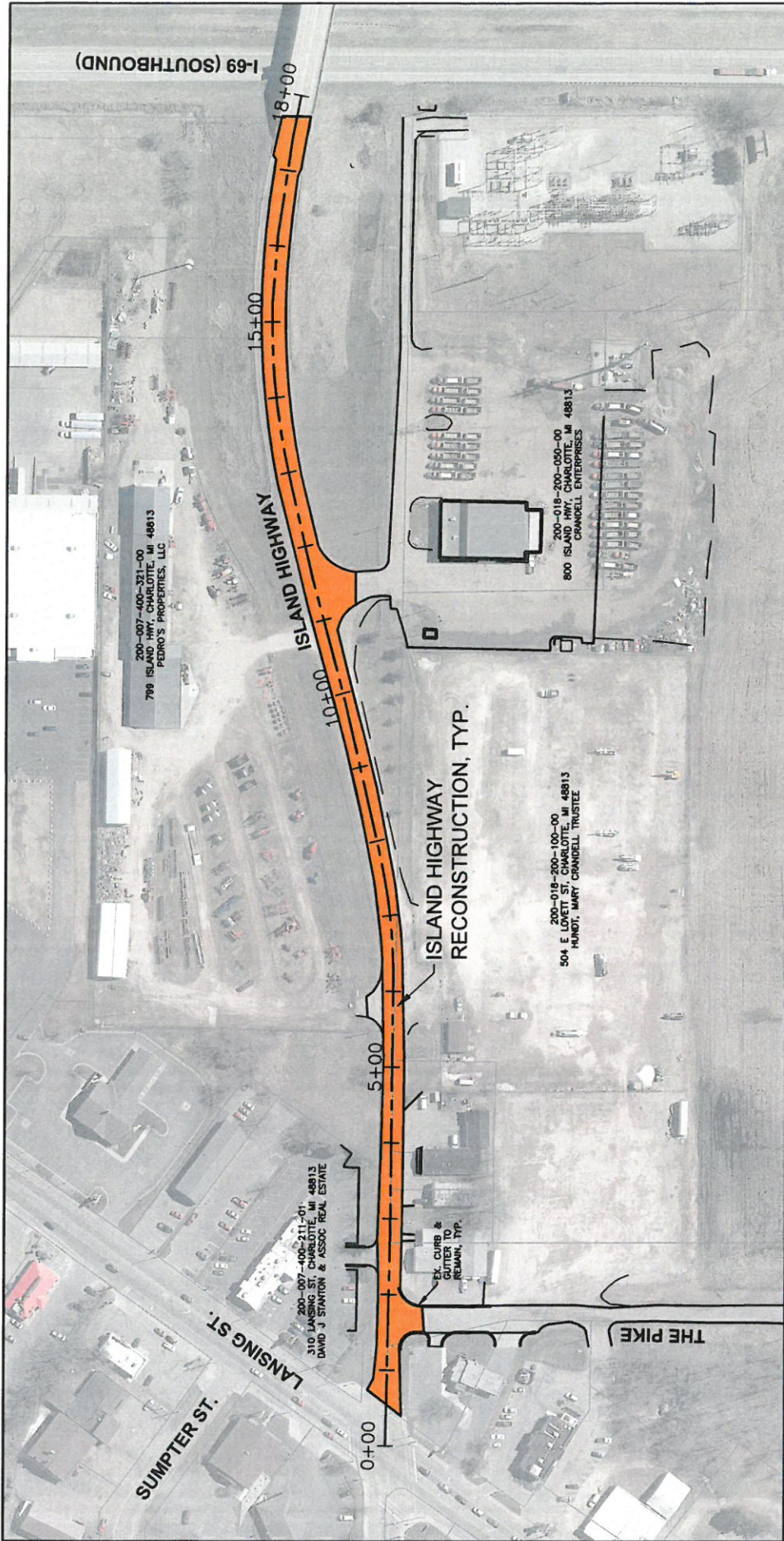
Sub-total \$ 445,000.00

Estimated Engineering, Survey, Testing and Inspection Costs (~10%) \$ 45,000.00

Estimate of Construction Costs \$ 490,000.00

Final Cost Terms

1. The City shall be responsible for and pay for all costs associated with the Road Replacement (Island Highway reconstruction) as described and depicted in this exhibit and consistent with final design plans developed and approved by the Eaton County Drain Commissioner.
2. Final costs shall be based on selected contractor's unit price bid and as accepted by the Eaton County Drain Commissioner, in his sole discretion



ISLAND HIGHWAY RECONSTRUCTION INCLUDES FULL DEPTH HMA RECONSTRUCTION, HMA SHOULDERS, AS NEEDED HMA APPROACH, PAVEMENT MARKINGS, UNDERDRAIN & SLOPE RESTORATION WITHIN HIGHLIGHTED AREA ABOVE. (APPROXIMATELY 1,700 LF)

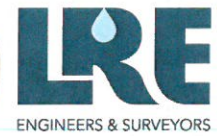
2121 3 Mile Rd. NW
Walker, MI 49544
Ph: 616-301-7888
www.LREMI.com

EXHIBIT A - CUMMINGS DRAIN	
PROJECT NUMBER: 19-084	DATE: 4/2022
DESIGNED BY: MPB	SHEET NUMBER: 1 of 1
DRAFTED BY: NDJ	

ESTIMATE OF ISLAND HWY RECONSTRUCTION

Cummings Drain Improvements

Date: February 22, 2022



Item	Description	Qty.	Unit	Price	Amount
1	Mobilization, Max 5%	1	LS	\$ 22,000.00	\$ 22,000.00
2	Traffic Control	1	LS	\$ 20,000.00	\$ 20,000.00
3	Roadway Grading	10	Sta	\$ 1,000.00	\$ 10,000.00
4	Sawcut Bit. Pavement	350	LF	\$ 2.00	\$ 700.00
5	Cold Milling HMA Surface	3,100	Syd	\$ 3.50	\$ 10,850.00
6	Stockpile Millings	600	Cyd	\$ 3.00	\$ 1,800.00
7	12 inch Subbase, CIP (MDOT CL II)	1,050	Cyd	\$ 12.00	\$ 12,600.00
8	8" Aggregate Base (MDOT 22A)	3,100	Syd	\$ 13.00	\$ 40,300.00
9	Shoulder, CI II, 6 inch	450	Syd	\$ 15.00	\$ 6,750.00
10	HMA, 13A (6" total)	1,000	Ton	\$ 90.00	\$ 90,000.00
11	HMA Approach	65	Ton	\$ 110.00	\$ 7,150.00
12	Place and Shape Millings	1,200	Syd	\$ 10.00	\$ 12,000.00
13	Structure Adjustment	2	EA	\$ 250.00	\$ 500.00
14	Pavt Mrkg, Waterborne, 4 inch, Yellow	900	FT	\$ 0.50	\$ 450.00
15	Pavt Mrkg, Waterborne, 6 inch, White	1,800	FT	\$ 0.50	\$ 900.00
16	Underdrain, Subgrade, 6 inch	1,800	FT	\$ 6.00	\$ 10,800.00
17	Underdrain Outlet, 6 inch	200	FT	\$ 15.00	\$ 3,000.00
18	Underdrain Outlet Ending, 6 inch	8	Ea	\$ 200.00	\$ 1,600.00
19	Slope Restoration	2,000	Syd	\$ 4.00	\$ 8,000.00

Sub-total \$ 259,400.00

Contingency (~15%) \$ 39,000.00

Estimated Engineering, Survey, Testing and Inspection Costs (~10%) \$ 26,000.00

Estimate of Construction Costs \$ 324,400.00

City of Charlotte Contribution (25%) \$ 81,100.00

*Note - Final Costs shall be based on Contractor's unit prices