

Financial Services Audit Committee Communication

Date: March 27, 2020

To: Great Lakes Water Authority Audit Committee

From: Andrew Sosnoski, Manager, Construction Accounting & Financial Reporting

Re: FY 2020 Q2 Construction Work-in-Progress Report through December 31, 2019

(Unaudited)

Background: The quarterly construction work-in-progress (CWIP) provides information and analysis related to the execution of the Great Lakes Water Authority capital improvement program (CIP).

Analysis: The attached documents summarize the FY 2020 Q2 CWIP activity and provides a detailed snapshot to inform decision makers and stakeholders.

Proposed Action: Receive and file this report.



Construction Work-in-Progress Quarterly Report (Unaudited)

As of December 31, 2019

For questions, please contact:

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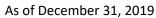




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December 20, 2019

To Our Stakeholders:

The contents of this report represent the financial presentation of construction work-in-progress activity for the Great Lakes Water Authority (GLWA) as of December 31, 2019. The information in this report presents a detailed snapshot and is important as we track the execution of the FY 2020–2024 Capital Improvement Plan (CIP) and look to inform decision makers as we finalize the FY 2021–2025 CIP.

As we continue to refine this report to better communicate pertinent information to inform decision makers and stakeholders, content and formatting may be changed. With the summary of active projects now regularly being reported to the Capital Planning Committee the project highlights previously being reported have been removed from this report.

Report Contents and Organization

This report is divided into two sections: one for the Water System and one for the Wastewater System as identified in the table of contents. Each section includes analysis and reporting of the following:

Executive Summary: Presentation of spend information is necessary to report our progress on CIP projects.

Construction Work-in-Progress Rollforward: This table provides a list of all projects in the CIP along with financial activity. This table may be used to revisit priorities, workload, and phasing.

Project Amendment Summary: The award of CIP contracts and the related execution thereof may result in deviations from the amount and timing of project activity. Project amendments are prepared to fund the related increase or decrease with either an adjustment to Capital Reserve or Program / Allowance accounts to amend the board approved fiscal year CIP accordingly and to inform decision makers in the development of future Capital Improvement Plans.



Financial Information

All project amounts are unaudited. This means that direct contractor costs are generally included in these totals with most pay estimates entered through December 31, 2019. There may, however, be some pay estimates that lag. The totals do not include indirect overhead.

Budget vs. Plan

Generally, GLWA's CIP projects span two or more fiscal years. The GLWA Board of Directors adopts a biennial "budget" and a five-year capital improvement "plan".

- ✓ The adopted **budget** relates to operations and maintenance expense, annual fixed commitments such as debt service, and incremental adjustments to reserves. The budget provides authority to spend within defined amounts. The budget is also referred to as the "revenue requirement" for the utility.
- ✓ After contracts are awarded at amounts variant from the CIP plan and more reliable anticipated spend data becomes available, the amended budget for the current fiscal year may increase or decrease by way of "Capital Reserve" budget amendments.
- ✓ The five-year capital improvement **plan** is a rolling plan that is updated at an administrative tracking level as projects move from estimated to actual bid numbers. An updated mid-cycle CIP would be presented to the Board for approval if the prioritization strategy was revised and/or the plan was in need of material revisions.
- ✓ In addition, the Board of Directors adopts a capital spending ratio assumption (SRA) which allows the realities of capital program delivery to align with the financial plan. The SRA is an analytical approach to bridge the total dollar amount of projects in the CIP with what can realistically be spent due to limitations beyond GLWA's control and/or delayed for nonbudgetary reasons. Those limitations, whether financial or non-financial, necessitate the SRA for budgetary purposes, despite the prioritization established.



WATER SYSTEM

Executive Summary

The rate of spend is a key performance indicator. The development of the FY 2020-2024 and related CIP Plan for FY 2020 were based on anticipation of FY 2020 activity resulting in 75% of planned spend. The Water System spend for the period ending December 31, 2019 is 41.7% of the FY 2020 prorated board approved CIP, 46.4% of the FY 2020 prorated board approved CIP with project amendments, and 55.6% of the FY 2020 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2020 Board Approved CIP was amended from \$143,247,000 to \$128,871,025 is provided in the subsequent Project Amendment Summary section of this report.

Water System Projects	FY 2019 CIP	FY 2019 Activity	FY 2019 Percentage			FY 2020 Prorated (Six Months)	FY 2020 Activity (Unaudited)	FY 2020 Percentage
FY 2019 Board Approved CIP FY 2019 Board Approved CIP With Project Amendments	\$ 66,038,000 72,348,044	\$ 61,583,574 61,583,574	93.3% 85.1%					
FY 2020 Board Approved CIP FY 2020 Board Approved CIP With Project Amendments FY 2020 Capital Spend Rate Assumption (SRA)				\$ 143,247,000 128,871,025 107,435,250	\$ \$ \$	71,623,500 64,435,513 53,717,625	\$ 29,887,218 29,887,218 29,887,218	41.7% 46.4% 55.6%





Construction Work-in-Progress Rollforward

The purpose of the construction work-in-progress (CWIP) rollforward is to analyze the current year activity for each project in relation to the overall capital improvement program as well as the project portfolio overall.

As part of our project life cycle review the CA&FR team identifies when it is appropriate for projects to be capitalized. Projects are to be capitalized when they have been completed in totality or are inclusive of identifiable assets that have been placed in service. Capitalization of project cost occurred in the FY 2020 2nd quarter for the following projects:

<u>Project</u>	<u>Contract</u>	<u>Description</u>
122001	WS-681	42-Inch Parallel Water Main
122009	WS-691	Water System Improvements in Joy Road from Southfield Road to Trinity

\$171.6 million is in CWIP as of December 31, 2019 as shown in the table beginning on the next page.

The order of the report on the subsequent pages is in ascending order by CIP project number.



Great Lakes Water Authority Water System Construction Work-in-Progress (CWIP) FY 2020 Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

		Total Project Plan Estimate From	CWIP Balance	FY 2020 Board	FY 2020 Board Approved CIP With Project	FY 2020 Activity through	Life to Date Capitalization Through December 31,	December 31,	Life to Date Activity through December 31,	Life to Date Activity / Total
Project	Project Name	FY 2020 - 2024 CIP	July 1, 2019	Approved CIP	Amendments	December 31, 2019	2019	2019	2019	Project Plan
	Energy Management: Lake Huron Water									
	Treatment Plant Low Lift Pumping									
111001	Improvements	\$ 52,388,000						\$ 34,581		0%
111002	LHWTP Backflow Replacement	8,324,000	6,836,980	1,882,000	1,882,000	1,443,750	155,348	8,280,730	8,436,078	101%
	Electrical Tunnel Rehabilitation at Lake									
111004	Huron WTP	4,749,000	2,768,607	4,296,000	1,275,214	1,056,798	-	3,825,405	3,825,405	81%
	Replacement of Filter Instrumentation and									
444004	Raw Water Flow Metering Improvements at	40 =00 000		0.000.000	0.000.000	0.00.000		4 0 4 0 0 4 0	4 0 4 0 0 4 0	100/
111006	Lake	10,789,000	777,960	3,333,000	3,333,000	262,882	-	1,040,842	1,040,842	10%
	Laladi MITTO Da Clalado Clado									
111007	Lake Huron WTP-Raw Sludge Clarifier and	0.700.000	(20.00)	4.660.000	2 720 260	2 117 (00		2757675	2757 (75	2007
111007	Raw Sludge Pumping System Improvements	9,799,000	639,986	4,660,000	3,738,368	2,117,689	-	2,757,675	2,757,675	28%
111008	LHWTP Architectural Programming - Lab	300,000	-	-	-	110	-	110	110	0%
111000	Lalas Harras M/TD 25 MCD HLD Flans Materia	26 106 000	25.064	0.020.000	9.030.000	44100		80.044	00.044	007
111009	Lake Huron WTP-35 MGD HLP, Flow Meters Low Lift Pumping Plant Caisson	26,106,000	35,864	9,030,000	9,030,000	44,180	-	80,044	80,044	0%
112002	Rehabilitation at Northeast WTP	1,565,000	1,134,767	203,000	203,000	21,786		1,156,553	1,156,553	74%
112002	NE WTP High Lift Pumping Electrical	62,234,000	1,134,707	203,000	203,000	21,700	<u> </u>	1,130,333	1,130,333	0%
112003	Northeast Water Treatment Plant -	02,234,000	-	-	-	-	-	-	-	070
	Replacement of Covers for Process Water									
112005	Conduits	813,000	13,356	166,000	310,000	2,022	_	15,378	15,378	2%
112003	Northeast Water Treatment Plant Flocculator	013,000	13,330	100,000	310,000	2,022	<u> </u>	13,370	13,370	2 70
112006	Replacements	2,718,000	2,891	1,356,000	1,356,000	28,643	_	31,534	31,534	1%
112000	High Lift Pump Discharge Valve Actuators	2,710,000	2,071	1,550,000	1,550,000	20,013		31,331	31,331	170
113002	Replacement at Southwest WTP	5.432.000	2,479,490	2,876,000	3,028,000	1,826,843	-	4,306,334	4,306,334	79%
113003	Replacement of Butterfly Valves	148,286,000	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	-	110	_	110	110	0%
110000	Residual Handling Facility's Decant Flow	110,200,000				110		110	110	070
113004	Modifications at Southwest WTP	898,000	_	380,000	380,000	1,822	853,219	1,822	855,041	95%
113006	SW WTP Chloring Scrubber	7,032,000	-	-	-	-,	-	-,	-	0%
113007	Architectural and Building Mechanical	37,336,000			-		-		-	0%
		27,000,000								3,0
	Springwells Water Treatment Plant 1958									
114001	Filter Rehabilitation and Auxiliary Facilities	97,288,000	73,955,623		1,255,609	3,550,074	22,738,455	77,505,698	100,244,153	103%
	Springwells Water Treatment Plant - Low Lift	, , , , , , , , , , , , , , , , , , , ,	. ,		, , , , , , , , , , , , , , , , , , , ,	, ,	, , , , , ,	, , , , , ,	, ,	
114002	and High Lift Pump Station	114,816,000	2,080,861	5,985,000	6,308,877	725,873	-	2,806,735	2,806,735	2%
	Water Production Flow Metering									
114003	Improvements at NE, SW, and SPW WTP	7,105,000	6,331,921	80,000	713,282	891,578	-	7,223,499	7,223,499	102%
	Springwells WTP Admin Building									
114005	Improvements	8,125,000	10,555	413,000	527,664	437,705		448,260	448,260	6%
	Replacement of Rapid Mix Units at									
114006	Springwells WTP 1958 Process Train	1,124,000	0	61,000	61,000	9,390	1,021,039	9,390	1,030,429	92%
114007	Powder Activated Carbon Systems	3,938,000	-	-	-	-	-	-	-	0%
	1930 Sedimentation Basin Sluice Gates,									
	Guides & Hoists Improvements at Springwells									
114008	WTP	17,125,000	195,644	4,153,000	2,185,000	615,597	-	811,240	811,240	5%
	Springwells Water Treatment Plant Service									
114009	Area Redundancy Study	311,000	-	-	-	-	-	-	-	0%
114010	Yard Piping Improvements	110,650,000	3,947	-	-	8,434	-	12,380	12,380	0%



Great Lakes Water Authority Water System Construction Work-in-Progress (CWIP) FY 2020 Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

Total Project Plan Estimate From Project Project Name FY 2020 - 2024 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through December 31, 2019	Life to Date Capitalization Through December 31, 2019	CWIP Balance December 31, 2019	Life to Date Activity through December 31,	Life to Date Activity / Total Project Plan
rioject rioject name ri 2020 - 2024 Cir	July 1, 2019	Approved CIP	Amenuments	December 31, 2019	2019	2019	2019	Project Plan
Steam, Condensate Return, and Compressed								
114011 Air Piping Improvements at Springwells WTP 24,989,000	2,373,087	5,392,000	5,453,373	4,320,279	-	6,693,366	6,693,366	27%
Springwells Water Treatment Plant 1930								
114012 Filter Building-Roof Replacement 3,912,000	-	-	-	-	3,911,148	-	3,911,148	100%
Springwells Reservoir Fill Line 114013 Improvements 4,732,000	2,829,864	1,551,000	1,551,000	542,116	_	3,371,981	3,371,981	71%
Emergency Grating Replacement at	2,029,004	1,331,000	1,331,000	342,110		3,371,901	3,371,701	7 1 70
114015 Springwells WTP 3,466,000	-	-	_	_	3,365,903	-	3,365,903	97%
Springwells Water Treatment Plant 1958					, ,		, ,	
Settled Water Conduits Concrete Pavement								
114016 Replacement 862,000	802	206,000	206,000	2,271	-	3,072	3,072	0%
Springwells Water Treatment Plant								22/
114017 Flocculator Drive Replacement 2,328,000	-	-	-	-	-	-	-	0%
Yard Piping, Valves and Venturi Meters 115001 Replacement at Water Works Park 53,580,000	1,758,683	17,333,000	17,333,000	475,213	_	2,233,897	2,233,897	4%
Comprehensive Condition Assessment at	1,730,003	17,333,000	17,333,000	773,213	<u> </u>	2,233,077	2,233,077	770
115003 Waterworks Park WTP 855,000	513,538	153,000	153,000	55,898	-	569,437	569,437	67%
ater Works Park WTP Chlorine System	,	,	,	,		, .	,	
115004 Upgrade 8,771,000	6,685,754	2,047,000	2,047,000	207,182	-	6,892,936	6,892,936	79%
WWP WTP Building Ventilation								
115005 Improvements 5,071,000	-	507,000	507,000	517	-	517	517	0%
Pennsylvania, Springwells and Northeast Raw								
116002 Water Supply Tunnel Improvements based on 30,090,000	10,200,085	5,467,000	5,467,000	118,489	_	10,318,574	10,318,574	34%
Water supply runner improvements based on 50,000,000	10,200,000	5,107,000	3,107,000	110,107		10,510,571	10,510,571	3170
Parallel 42-Inch Main in 24 Mile Road from								
122001 Rochester Station to Romeo Plank Road 33,566,000	33,241,721	-	-	-	33,241,721	-	33,241,721	99%
Replacement of Five (5) PRV Pits of Treated								
122002 Water Transmission System 2,648,000	-	-	-	-	2,785,001	-	2,785,001	105%
New Waterworks Park to Northeast 122003 Transmission Main 133.272.000	2 (15 102	071 000	(F0.222	001 500	_	2 517 701	2 517 701	20/
122003 Transmission Main 133,272,000 96-inch Main Relocation, Isolation Valves	2,615,193	871,000	658,233	901,588	-	3,516,781	3,516,781	3%
122004 Installations, and New Parallel Main 132,666,000	1,787,389	5,000,000	5,000,000	13,133	_	1,800,523	1,800,523	1%
122005 Replacement Schoolcraft Watermain 18,062,000	141,171	8,100,000	2,328,644	10,589	-	151,760	151,760	1%
Transmission System Water Main Work-Wick	,	.,,	,,-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- ,	,	
122006 Road Parallel Water Main 31,918,000	416,882	18,028,000	8,401,361	754,646	-	1,171,527	1,171,527	4%
Design and Construction of a new Newburgh								
Road 24" Main along Newburgh Road								
122007 between Ch 5,239,000	783	-	-	802	=	1,585	1,585	0%
Water System Improvements in Joy Road 122009 from Southfield Road to Trinity 107,000	106,881			_	106,881	_	106,881	100%
122011 Park-Merriman Water Main-Final Phase 8,203,000	986.024	4,737,000	3.937.000	799,486	100,881	1,785,510	1,785,510	22%
122012 36-inch Water Main in Telegraph Road 9,573,000	-		3,737,000	7 7 7, 400	9,986,284	1,703,310	9,986,284	104%
Lyon Township Transmission Main Extension					.,,		.,,	
122013 Project 54,426,000	637,635	751,000	2,628,978	1,799,085	-	2,436,720	2,436,720	4%
122016 Downriver Transmission Loop 37,197,000	24,251	297,000	820,965	7,729	-	31,980	31,980	0%



Great Lakes Water Authority Water System Construction Work-in-Progress (CWIP) FY 2020 Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

Water System Construction Work-in-Progress Quarterly Report

Project	Project Name	Total Project Plan Estimate From FY 2020 - 2024 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through December 31, 2019	Life to Date Capitalization Through December 31, 2019	CWIP Balance December 31, 2019	Life to Date Activity through December 31, 2019	Life to Date Activity / Total Project Plan
	7 Mile/Nevada Transmission Main Rehab and									
122017	Carrie/Nevada Flow Control Station	20,500,000	•	1,040,000	1,040,000	-	-	-	•	0%
132001	Wick Road Station Rehabilitation	165,000	135,073	-	-	-	-	135,073	135,073	82%
	Isolation Gate Valves for Line Pumps for West									
132003	Service Center Pumping Station	1,814,000	247,754	490,000	1,522,316	771,218	-	1,018,972	1,018,972	56%
	Hydraulic Surge Control for North Service									
132004	Center Pumping Station	215,000	214,771	-	-	-	-	214,771	214,771	100%
132006	Pressure and Control Improvements at the Electric, Ford Road, Michigan, and West Chica	2,929,000	289,594	2,515,000	2,399,138	296,487	-	586,081	586,081	20%
	Energy Management: Freeze Protection									
132007	Pump Installation at Imlay Pumping Station	2,160,000	97,185	592,000	592,000	19,837	_	117,022	117,022	5%
	Needs Assessment Study for all Water	_,_ ,_ ,, , , , ,	,	0.1_,0.00	,					270
132008	Booster Pumping Stations	1,677,000	1,838,406	_	_	1.881	_	1,840,287	1,840,287	110%
102000	West Service Center/Duval Rd Division Valve	1,077,000	1,000,100			1,001		1,010,20,	1,010,207	11070
132010	Upgrades	37,136,000	607,504	2,620,000	2,620,000	13,688	_	621,192	621,192	2%
132012	Ypsilanti PS Improvements	9,861,000	20,539	585,000	510,490	3,374	_	23,913	23,913	0%
102012	r ponunci i o improvemento	3,001,000	20,000	303,000	310,170	5,571		20,713	23,713	070
132014	Adams Road Booster Pumping Improvements	5,674,000	_	_	_	_	_	_	_	0%
132015	Newburgh BPS	12,169,000	2,811	16,000	458,245	1,726	_	4,537	4,537	0%
132016	North Service Center BPS Improvements	24,920,000	2,011	10,000	150,215	1,720		-1,557	1,337	0%
132017	North Service Center BPS - On-Site & Off	5,076,000	_	6.000	6.000	_	_	_	_	0%
132017	Schoolcraft BPS	10,564,000	_	-	- 0,000		_	_	_	0%
132019	Wick Road BPS - Switchgear	5,569,000	_	_	_	_	_		_	0%
132020	Franklin BPS - Isolation Gate Valves	10,109,000								0%
132020	Trankin bi 5 Isolation date valves	10,107,000								0 70
132021	Imlay BPS - Replace VFDs, Pumps & Motors	12,109,000	_	_	_	_	_	_	_	0%
132022	Joy Road BPS - Replace Reservoir Pumps	6,109,000	_	_			_	_	_	0%
132022	Northwest Booster Station Yard Piping	0,107,000		-	-	<u> </u>	_	-		0 70
132025	Improvements	5,500,000	971	_			_	971	971	0%
170100	Allowance: WTP/Pump Station	39,811,000	- 7/1	3,000,000	3,000,000		_	-	- 7/1	0%
170100	Water Production Plant Flow Mettering	37,011,000	-	3,000,000	3,000,000	<u> </u>	-	-		0 70
170102	Improvements at NE, SP & SW WTP		359.259			6.302		365,561	365,561	100%
170102	Belle Isle Water Supply Intake and Ice Boom	-	337,237		-	0,302		303,301	303,301	100 /0
170103	Improvements		3,278				286,596	3,278	289,874	100%
170103	Orion and Newburgh Pumping Stations	<u>-</u>	3,470	-	<u> </u>	<u> </u>	200,390	3,270	209,074	100%
170104	Improvements		170,664			7,104	1,907,825	177,768	2,085,593	100%
170104	mprovements	-	170,004	-	-	7,104	1,907,023	1//,/00	2,000,090	100%
170109	Inspection of Raw Water Intakes and Tunnels		3,102,765			38,396	_	3,141,161	3,141,161	100%
170109	Raw Water Sampling Improvements	<u> </u>	2,926	<u> </u>	<u> </u>	30,370	-	2,926	2,926	100%
170110	Franklin PS Valve Rehab	-	38,681	•	-	416,786	-	455,467	455,467	100%
170121	Meter Pit at Brownstown Township	<u> </u>	133,306	-	<u>-</u>	71,090	<u>-</u>	204,396	204,396	100%
1/0144	Meter Fit at Drownstown Township	-	133,300	-	-	/ 1,090	-	204,390	204,390	100%
	As Needed Construction Materials.									
170200	Environmental Media and Special Allowance	1,618,000		572,000	572,000					0%
170200	Construction & Environmental Testing	1,010,000	63,443	3/4,000	3/4,000	(24,045)	-	39,397	39,397	100%
1/0201	Construction & Environmental Testing	•	03,443	- · · · · · · · · · · · · · · · · · · ·		(24,045)	-	37,397	37,397	100%



Great Lakes Water Authority Water System Construction Work-in-Progress (CWIP) FY 2020 Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

Water System Construction Work-in-Progress Quarterly Report

Project	Project Name	Total Project Plan Estimate From FY 2020 - 2024 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through December 31, 2019	Life to Date Capitalization Through December 31, 2019	CWIP Balance December 31, 2019	Life to Date Activity through December 31, 2019	Life to Date Activity / Total Project Plan
170300	Water Treatment Plant Automation Program	7,740,000	_	1,561,000	1,561,000	-	_	-	_	0%
170301	Water Plant Automation	-	1,657,645	-	-	97,497	-	1,755,142	1,755,142	100%
170400	Water Transmission Improvement Program	110,656,000	-	1,500,000	1,500,000	-	-	-	-	0%
170401	Emergency Bypass Around Ypsilanti Station	-	1,643,165	-	-	15,800	-	1,658,965	1,658,965	100%
170500	Transmission System Valve Assessment and Rehabilitation/Replacement Program	36,704,000	-	4,000,000	4,000,000	-	-	_	-	0%
170502	Transmission System Valve Assessment and Rehabilitation/Replaceme		0	-	-	1,288,209	6,029,544	1,288,209	7,317,753	100%
170600	Water Transmission Main Asset Assessment Program	48,500,000	-	3,000,000	3,000,000	-	-	-	-	0%
170800	Reservoir Inspection, Design and Rehabilitation Program	59,164,000	-	5,128,000	632,000	-	-		-	0%
170801	Reservoir Inspection, Design and Rehabilitation Suburban Water Meter Pit Rehabilitation and	_	456,574	-	4,513,500	556,363	-	1,012,938	1,012,938	100%
170900	Meter Replacement Program Suburban Water Meter Pit Rehabilitation and	43,797,000	-	4,000,000	925,000	-	-	-	-	0%
170901	Meter Replacement	_	1.237.565	_	3.075.000	1.171.576	_	2.409.140	2.409.140	100%
171400	Energy Management Program	5,787,000	-	-	-	-,=:=,=:=	-	-	-,,	0%
171500	Roof Replacement - Var Facilities Program	6,707,000	-	2,657,000	-	-	-	-	-	0%
171501	Roof Replacement - Var Facilities Program	-	119,283	-	2,948,089	1,142,543	-	1,261,826	1,261,826	100%
331001	Roof Replacement - Var Water Facilities	5,425,000	-	-	-	-	-	-	-	0%
341001	Security Infrastructure Improvements	-	962,673	-	1,173,179	916,122	-	1,878,795	1,878,795	100%
351001	Water Facility Lighting Renovations Data Center Reliability/Availability	500,000	6,211	250,000	250,000	457	-	6,667	6,667	1%
361002	Improvements		16.080	_	_	_		16,080	16,080	100%
380600	General Engineering Services Allowance	95,000	10,000					10,000	10,000	0%
380601	General Engineering Services Allowance	-	674	-	-		-	674	674	100%
555551	As-needed Engineering Services for Concrete Testing, Geotechnical Soil Borings, other Testing Services, and Related Services		0, 1					0,1	0,1	10070
380700	Allowance	620,000	-	-	-	-	-	-	-	0%
381000	Energy Management: Electric Metering Improvement Program	2,500,000	-	-	_	-	-	_	-	0%
Grand Total		\$ 1,888,664,000	, ,	\$ 143,247,000 :	\$ 128,871,025	\$ 29,887,218	\$118,844,199	\$ 171,569,699	\$ 290,413,898	15%





FY 2020 Project Amendment Summary

The purpose of the Project Amendment Summary is to illustrate the amendments to the current fiscal year board approved CIP for each project with an amendment resulting from the use of allowance and program funding for a specific amount necessitated by contract award.

The award of CIP contracts and the related execution thereof may result in deviation from the amount and timing of planned spend. Acknowledging the aforementioned deviation, project amendments are prepared to fund the related increase or decrease either to or from the Capital Reserve to amend the current fiscal year board approved Capital Improvement Plan accordingly and to inform decision makers in the development of future Capital Improvement Plans. Similar to the project amendments prepared for the Capital Reserve, project amendments are also prepared for contracts that are planned or funded by way of the CIP Program and Allowance accounts. As additional contracts are awarded and other project information becomes available additional project amendments to and from the Capital Reserve will be prepared to amend the board approved FY 2020 Capital Improvement Plan.

\$14.4 million of Capital Reserve project amendments have been prepared as of December 31, 2019 as shown in the table on the next page along with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of the report on the subsequent page is in ascending order by CIP project number.





As of December 31, 2019

Great Lakes Water Authority Water System Project Amendment Summary Unaudited Activity For the Fiscal Year Ended December 31, 2019

		Program /		
Project	Project	Allowance	Capital Reserve G	rand Total
111001	Energy Management: Lake Huron Water Treatment Plant Low Lift Pumping Improvements		\$ 92,500	92,500
111004	Electrical Tunnel Rehabilitation at Lake Huron WTP		(3,020,786)	(3,020,786)
111007	Lake Huron WTP-Raw Sludge Clarifier and Raw Sludge Pumping System Improvements		(921,633)	(921,633)
112005	Northeast Water Treatment Plant - Replacement of Covers for Process Water Conduits		144,000	144,000
113002	High Lift Pump Discharge Valve Actuators Replacement at Southwest WTP		152,000	152,000
114001	Springwells Water Treatment Plant 1958 Filter Rehabilitation and Auxiliary Facilities		1,255,609	1,255,609
114002	Springwells Water Treatment Plant - Low Lift and High Lift Pump Station		323,877	323,877
114003	Water Production Flow Metering Improvements at NE, SW, and SPW WTP		633,282	633,282
114005	Springwells WTP Admin Building Improvements		114,664	114,664
114008	1930 Sedimentation Basin Sluice Gates, Guides & Hoists Improvements at Springwells WTP		(1,968,000)	(1,968,000)
114011	Steam, Condensate Return, and Compressed Air Piping Improvements at Springwells WTP		61,373	61,373
122003	New Waterworks Park to Northeast Transmission Main		(212,767)	(212,767)
122005	Replacement Schoolcraft Watermain		(5,771,356)	(5,771,356)
122006	Transmission System Water Main Work-Wick Road Parallel Water Main		\$ (9,626,639)	(9,626,639)
122011	Park-Merriman Water Main-Final Phase		(800,000)	(800,000)
122013	Lyon Township Transmission Main Extension Project		1,877,978	1,877,978
122016	Downriver Transmission Loop		523,965	523,965
132003	Isolation Gate Valves for Line Pumps for West Service Center Pumping Station		1,032,316	1,032,316
132006	Pressure and Control Improvements at the Electric, Ford Road, Michigan, and West Chica		(115,862)	(115,862)
132012	Ypsilanti PS Improvements		\$ (74,510)	(74,510)
132015	Newburgh BPS		442,245	442,245
170800	Reservoir Inspection, Design and Rehabilitation Program	(4,496,000)		(4,496,000)
170801	Reservoir Inspection, Design and Rehabilitation	4,496,000	17,500	4,513,500
170900	Suburban Water Meter Pit Rehabilitation and Meter Replacement Program	(3,075,000)		(3,075,000)
170901	Suburban Water Meter Pit Rehabilitation and Meter Replacement	3,075,000		3,075,000
171500	Roof Replacement - Var Water Facilities Program		(2,657,000)	(2,657,000)
171501	Roof Replacement - Var Water Facilities		2,948,089	2,948,089
341001	Security Infrastructure Improvements		\$ 1,173,179	1,173,179
Grand Total		\$ -	\$ (14,375,974)	(14,375,974)



WASTEWATER SYSTEM

Executive Summary

The rate of spend is a key performance indicator. The development of the FY 2020-2024 and related CIP Plan for FY 2020 were based on anticipation of FY 2020 activity resulting in 75% of planned spend. The Water System spend for the period ending December 31, 2019 is 37.1% of the FY 2020 prorated board approved CIP, 38.2% of the FY 2020 prorated board approved CIP with project amendments, and 49.4% of the FY 2020 Capital Spending Rate Assumption (SRA). Detailed analysis of the projects for which FY 2020 Board Approved CIP was amended from \$161,480,000 to \$156,584,005 is provided in the subsequent Project Amendment Summary section of this report.

					FY 2020	FY 2020	
		FY 2019	FY 2019		Prorated	Activity	FY 2020
Wastewater System Projects	FY 2019 CIP	Activity	Percentage	FY 2020 CIP	(Six Months)	(Unaudited)	Percentage
FY 2019 Board Approved CIP	\$ 105,183,000	82,133,532	78.1%				
FY 2019 Board Approved CIP With Project Amendments	100,264,934	82,133,532	81.9%				
FY 2020 Board Approved CIP			\$	161,480,000	80,740,000	29,924,759	37.1%
FY 2020 Board Approved CIP With Project Amendments				156,584,005	78,292,003	29,924,759	38.2%
FY 2020 Capital Spend Rate Assumption (SRA)				121,110,000	60,555,000	29,924,759	49.4%





Construction Work-in-Progress Rollforward

The purpose of the construction work-in-progress (CWIP) rollforward is to analyze the current year activity for each project in relation to the overall capital improvement program as well as the project portfolio overall.

As part of our project life cycle review the CA&FR team identifies when it is appropriate for projects to be capitalized. Projects are to be capitalized when they have been completed in totality or are inclusive of identifiable assets that have been placed in service. Capitalization of project cost occurred in the FY 2020 2nd quarter for the following projects:

<u>Project</u>	<u>Contract</u>	<u>Description</u>
213005	CON-229	Complex I Incineration Heating
260606	1802791	Puritan Fenkell Roof Replacement
331002	1803227	Dewatering Complex II Roof Replacement

\$186.7 million is in CWIP as of December 31, 2019 as shown in the table beginning on the next page.

The order of the report on the subsequent pages is in ascending order by CIP project number.



Great Lakes Water Authority
Wastewater System Construction Work-in-Progress (CWIP) FY 2020 Rollforward
Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

Project	Project Name Roof Replacement - Var Facilities	Total Project Plan Estimate From FY 2020 - 2024 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through December 31, 2019	Life to Date Capitalization Through December 31, 2019	CWIP Balance December 31, 2019	Life to Date Activity through December 31, 2019	Life to Date Activity / Total Project Plan
171501	Program	\$ - \$	- \$	- \$	83,000	\$ 83,000	\$ -	\$ 83,000	\$ 83,000	100%
211001	Rehabilitation of Primary Clarifiers Rectangular Tanks, Drain Lines, Electrical/Mechanical Building and Pipe Gallery	54,858,000	45,368,717	7,982,000	7,982,000	5,645,273	-	51,013,990	51,013,990	93%_
	Pump Station No. 2 Pumping									
211002	Improvments Pump Station 1 Rack & Grit and MPI Sampling Station 1	3,812,000	1,911,850	1,222,000	1,222,000	51,227	-	1,963,077	1,963,077	51%
211004	Improvements	27,198,000	26,502,582	869,000	869,000	809,970	-	27,312,552	27,312,552	100%
		, ,	-,,	,	,			, , , , , , , , , , , , , , , , , , , ,	,- ,	
211005	Pump Station No. 2 Improvements	21,599,000	1,002	-	-	(1,002)	-	0	0	0%
211006	Pump Station No. 1 Improvements	22,315,000	6,307	1,803,000	1,803,000	833,334	-	839,641	839,641	4%
	Replacement of Bar Racks and Grit Collection System at Pump Station									
211007	No. 2	17,836,000	628	269,000	269,000	133	-	761	761	0%
211008	Rehabilitation of Ferric Chloride Feed systems at the Pump Station - 1 and Complex B Sludge Lines Rehabilitation of the Circular Primary Clarifier Scum Remoyal	10,566,000	200,048	2,950,000	3,950,000	876,828		1,076,877	1,076,877	10%
211009	System	11,394,000	30	-	_	_	-	30	30	0%
212002	Study, Design, & Construction, Management Services for Modified Detroit River Outfall No. 2 - WRRF	-	10,821,153		-	(1,853)	-	10,819,300	10,819,300	100%
212003	Aeration System Improvements	16,682,000	16,356,789	_	_	162,620	_	16,519,409	16,519,409	99%
	ProjectChlorination/Dechlorinatio n Process Equipment			2245.000	2.000.000	·				
212004	Improvements PC-797 Rouge River Outfall Disinfection and CS-1781 Oversight Consulting Services	5,045,000	192,917	2,345,000	2,903,000	87,859	-	280,776	280,776	6%
212006	Contract	48,033,000	41,691,377	4,583,000	4,731,155	1,013,560	-	42,704,937	42,704,937	89%
212007	Rehabilitation of the Secondary Clarifiers	30,118,000	-		-	_		-		0%
	WRRF Rehabilitation of	, ,								
212008	Intermediate Lift	20,833,000	-	229,000	229,000	-	-	-	-	0%
212002	Rehabilitation of Central Offload	16 170 000		7 (0(000	7 (0(000					001
213002	Facility Complex I Incinerators	16,179,000	<u>.</u>	7,696,000	7,696,000	<u> </u>		<u>.</u>	<u>-</u>	0%
213005	Decommissioning and Reusability	4,452,000	369,648	-	-	22	369,671	-	369,671	8%



Great Lakes Water Authority Wastewater System Construction Work-in-Progress (CWIP) FY 2020 Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

	D :	Total Project Plan Estimate From	CWIP Balance	FY 2020 Board	FY 2020 Board Approved CIP With Project	FY 2020 Activity through	Life to Date Capitalization Through December 31,	CWIP Balance	Life to Date Activity through December 31,	Life to Date Activity / Total
Project	Project Name Improvements to Sludge Feed	FY 2020 - 2024 CIP	July 1, 2019	Approved CIP	Amendments	December 31, 2019	2019	December 31, 2019	2019	Project Plan
213006	Pumps at Dewatering Facilities	3,726,000	4,856	_	_	_	_	4,856	4,856	0%
215000	Construction of the Improved	5,7 20,000	1,000					1,000	1,000	070
	Sludge Conveyance and Lighting									
213007	System at the WWTP	20,049,000	10,809,195	8,711,000	8,711,000	3,350,805	-	14,160,000	14,160,000	71%
	Rehabilitation of the Wet and Dry									
213008	Ash Handling Systems	18,505,000	85	111,000	111,000	31,192	-	31,276	31,276	0%
0.4.0.0.0	Phosphorous Recovery Facility at		(0.0)			00				1000/
213009	the WWRF Relocation of Industrial Waste	•	(99)	-	•	99	•	-	-	100%
	Division and Analytical Laboratory									
214001	Operations	10,968,000	17,017	7,567,000	8,367,000	926,845	2,282,260	943,863	3,226,122	29%
211001	Rehabilitation of Various Sampling	10,700,000	17,017	7,507,000	0,507,000	720,010	2,202,200	710,000	0,220,122	2370
	Sites and PS# 2 Ferric Chloride									
216004	System at WWTP	5,576,000	814,368	3,921,000	3,921,000	416,868	-	1,231,236	1,231,236	22%
	Rehabilitation of the Screened Final Effluent (SFE) Pump Station									
216006	and Secondary Water System	24,853,000	17,581	323,000	323,000	16,951	-	34,532	34,532	0%
24 (0.07	DTE Primary Electric 3rd Feed	7.447.000	2.104.160	1 201 000	1 201 000		E42 E00	2.104.160	2 727 ((0	270/
216007	Supply Line to the WRRF	7,447,000	2,194,169	1,381,000	1,381,000	-	543,500	2,194,169	2,737,669	37%
216008	Rehabilitation of Screened Final Effluent (SFE) Pump Station	24,948,000	-	1,091,000	1,091,000	-	-	-	-	0%
216009	Logistics & Material Facility		-	-	-	2,951	-	2,951	2,951	100%
	Intercommunity Relief Sewer									
000004	Modifications in Detroit Oakwood	22 221 222								201
222001	District Detroit River Interceptor	38,031,000	-	-	-	-	-	-	-	0%
222002	Evaluation and Rehabilitation	49,071,000	10,611,644	10,000,000	4,049,445	5,997,970		16,609,614	16,609,614	34%
222002	Evaluation and Renabilitation	49,071,000	10,011,044	10,000,000	4,049,443	3,777,770	-	10,009,014	10,009,014	3470
222003	North Interceptor East Arm (NIEA) Evaluation and Rehabilitation	30,000,000	-	15,000,000	15,000,000		-	-		0%
	Collection System Valve Remote									
222004	Operation Structures	07 022 000	4.246	2 500 000	2 500 000	22.072		20.100	20.100	00/
222004	Improvements Fairview Pumping Station -	87,033,000	4,246	3,500,000	3,500,000	23,863	-	28,109	28,109	0%
232001	Replace Four Sanitary Pumps	30,442,000	3,475,448	18,000,000	16,265,405	1,943,244	_	5,418,692	5,418,692	18%
232001	Freud and Connor Creek Pump	30,772,000	J, 1/J,TTU	10,000,000	10,203,703	1,773,477	-	3,710,072	5, 110,072	10 /0
232002	Station Improvements	162,429,000	5,573,334	17,029,000	17,229,000	318,622	57,734	5,891,956	5,949,691	4%
	Northeast Pump Station	, , , , , , , , , , , , , , , , , , , ,	, ,	, ,	, ,	,		, , , , , , , , , , , , , , , , , , , ,	, , ,	
232003	Improvements	31,500,000	-	7,000,000	7,000,000	-	-	-	-	0%
	Collection System In System Storage Devices(ISDs)									
233002	Improvements	-	235	-	-	-	-	235	235	100%
	Wastewater System Wide Instrumentation & Controls									
251002	Software and Hardware Upgrade	-	71	-	-	-	-	71	71	100%



Great Lakes Water Authority Wastewater System Construction Work-in-Progress (CWIP) FY 2020 Rollforward Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

Project	Project Name	Total Project Plan Estimate From FY 2020 - 2024 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through December 31, 2019	Life to Date Capitalization Through December 31, 2019	CWIP Balance December 31, 2019	Life to Date Activity through December 31, 2019	Life to Date Activity / Total Project Plan
Troject		112020 2024 (11	July 1, 2017	прргосси сп	menuments	Detember 31, 2017	2019	December 51, 2017	2017	110ject 1 iun
	Water Resource Recovery Facility (WRRF), Lift Station & Wastewater									
260100	Collection System Allowance	34,038,000	-	1,100,000	1,100,000	-	-	-	-	0%
260200	Sewer and Interceptor Evaluation	102 164 000		15 000 000	C 550 040					00/
260200	and Rehabilitation Program Conveyance System Interceptor	192,164,000		15,000,000	6,550,048	<u> </u>	<u> </u>	-		0%
260201	Rehab	_	4,810,116	_	7,400,000	3,388,808	9,176,553	8,198,924	17,375,476	100%
200201	Conveyance System Interceptor		1,010,110		7,100,000	3,300,000	7,170,333	0,170,721	17,373,170	10070
260202	Rehab	_	17,031	_	_	2,420	_	19,451	19,451	100%
	Conveyance System Interceptor		,			, · ·		.,	.,	
260203	Rehab	=	4,642,133	-	=	-	-	4,642,133	4,642,133	100%
	Energy Services for Rehabilitation									
260204	of Conveyance Sewer System	-	133	-	1,049,952	144,555	-	144,688	144,688	100%
260500	CSO Outfall Rehab	89,188,000	-	15,102,000	10,302,925	-	-	-	-	0%
260503	Collection System Backwater Gates		760					760	760	100%
200503	Collection System Backwater Gates	-	760	<u> </u>	<u> </u>	<u> </u>	<u> </u>	760	760	100%
260504	Rehabilitation of Outfalls - Phase II	_	_	_	3,000,000	252,114	_	252,114	252,114	100%
200501	Rehabilitation of Outfalls - Phase				3,000,000	202,111		202,111	202,111	10070
260505	IV	-	-	-	1,799,075	_	-	-	-	100%
260600	CSO Facilities Improvements	63,591,000	-	5,604,000	3,421,000	-	-	-	-	0%
	Oakwood Drain Valve									
260601	Improvements	-	539,857	-	33,000	75,429	-	615,286	615,286	100%
	CSO Fire Alarm System									
260602	Improvements	-	812,407	-		176,946	-	989,353	989,353	100%
260603	Conner Creek CSO Basin Rehab	-	4,404,704	-	775,000	1,299,834	-	5,704,538	5,704,538	100%
260605	CSO Faciliaties CA	-	16,914	-	-	(16,914)	-	-	-	100%
260606	Puritan Fenkell Roof Replacement		1,944	_		344,596	346,540	_	346,540	100%
200000	i di itali relikeli kool kepiatelilelit	•	1,744	<u> </u>	<u> </u>	344,370	540,540	-	340,340	10070
260607	Lieb SDF Electrical Improvements		241,513	_	450,000	753,668	_	995,181	995,181	100%
	Seven Mile RTB - Roof		, 0			. 22,300		,101	7.0,201	
260608	Replacement		12,451	<u>-</u>	300,000	375,548		387,999	387,999	100%
	Seven Mile RTB - Parking Lot /									
260609	Sitework	-	23,197	-	400,000	15,554	-	38,751	38,751	100%
260610	Baby Creek MAU Replacement	-	1,773	-	-	245,699	-	247,473	247,473	100%
20011			= 000		205.05	40.00		40	10.41	4000
260611	HVAC Improvements At Lieb SDF	-	5,283	-	225,000	13,381	-	18,665	18,665	100%
260612	Daha Cua al- IIVAC Immunasa		7.0			400		470	470	1000/
260613	Baby Creek HVAC Improvements CSO Facilities Structural	-	76	-	-	403	-	479	479	100%
260614	Improvements		335,143			(109,570)		225,573	225,573	100%
200014	PF & Lieb CSO Facilities Site &	•	333,143	•	•	(109,370)	•	223,373	223,373	10070
260615	Drainage Improvements	-	_	_	-	1,520	_	1,520	1,520	100%
_50010	St. Aubin Chemical Disinfection					1,520		1,020	2,520	10070
260617	Improvements		-	-	-	49,800	-	49,800	49,800	100%
						, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,	,	



Great Lakes Water Authority
Wastewater System Construction Work-in-Progress (CWIP) FY 2020 Rollforward
Unaudited Activity For the Fiscal Quarter Ended December 31, 2019

Project	Project Name	Total Project Plan Estimate From FY 2020 - 2024 CIP	CWIP Balance July 1, 2019	FY 2020 Board Approved CIP	FY 2020 Board Approved CIP With Project Amendments	FY 2020 Activity through December 31, 2019	Life to Date Capitalization Through December 31, 2019	CWIP Balance December 31, 2019	Life to Date Activity through December 31, 2019	Life to Date Activity / Total Project Plan
	Roofing Systems Replacement at GLWA Wastewater Treatment Plant, CSO Retention Treatment Basins (RTB) and Screening									
331002	Disinfection Facilities (SDF)	9,709,000	802,470	1,092,000	1,092,000	320,586	1,123,056	-	1,123,056	12%
341001	Security Infrastructure Improvements	-	102,924	-	-	-	-	102,924	102,924	100%
380600	General Engineering Services Allowance	1,000	-	-			-		-	0%
380601	General Engineering Services Allowance	-	632	-	-	_	-	632	632	100%
381000	Energy Management: Electric Metering Improvement Program	2,500,000		-						0%
Grand Total		\$ 1,246,689,000		\$ 161,480,000 ect Amendments	\$ 156,584,005 \$ (4,895,995)	\$ 29,924,759	\$ 190,362,461	\$ 221,802,152	\$ 412,164,613	33%





FY 2020 Project Amendment Summary

The purpose of the Project Amendment Summary is to illustrate the amendments to the current fiscal year board approved CIP for each project with an amendment resulting from the use of allowance and program funding for a specific amount necessitated by contract award.

The award of CIP contracts and the related execution thereof may result in deviation from the amount and timing of planned spend. Acknowledging the aforementioned deviation, project amendments are prepared to fund the related increase or decrease either to or from the Capital Reserve to amend the current fiscal year board approved Capital Improvement Plan accordingly and to inform decision makers in the development of future Capital Improvement Plans. Similar to the project amendments prepared for the Capital Reserve, project amendments are also prepared for contracts that are planned or funded by way of the CIP Program and Allowance accounts. As additional contracts are awarded and other project information becomes available additional project amendments to and from the Capital Reserve will be prepared to amend the board approved FY 2020 Capital Improvement Plan.

\$4.9 million of Capital Reserve project amendments have been prepared as of December 31, 2019 as shown in the table on the next page along with project amendments detailing the assignment of funding within Program and Allowance accounts.

The order of the report on the subsequent page is in ascending order by CIP project number.



As of December 31, 2019

Great Lakes Water Authority Wastewater System Project Amendment Summary Unaudited Activity For the Fiscal Year Ended December 31, 2019

			Program /			
Project	Project	Allowance Capital Reserve Grand Total				
171501	Roof Replacement - Var Water Facilities			83,000		83,000
211008	Rehabilitation of Ferric Chloride Feed systems at the Pump Station -1 and Complex B Sludge Lines			1,000,000		1,000,000
212004	Chlorination/Dechlorination Process Equipment Improvements			558,000		558,000
212006	PC-797 Rouge River Outfall Disinfection and CS-1781 Oversight Consulting Services Contract			\$ 148,155	\$	148,155
214001	Relocation of Industrial Waste Division and Analytical Laboratory Operations			\$ 800,000	\$	800,000
222002	Detroit River Interceptor Evaluation and Rehabilitation			\$ (5,950,555)	\$	(5,950,555)
232001	Fairview Pumping Station - Replace Four Sanitary Pumps			\$ (1,734,595)	\$	(1,734,595)
232002	Freud and Connor Creek Pump Station Improvements			\$ 200,000	\$	200,000
260200	Sewer and Interceptor Evaluation and Rehabilitation Program		(8,449,952)			(8,449,952)
260201	Conveyance System Interceptor Rehab		7,400,000			7,400,000
260204	Energy Services for Rehabilitation of Conveyance Sewer System		1,049,952			1,049,952
260500	CSO Outfall Rehab		(4,799,075)			(4,799,075)
260504	Rehabilitation of Outfalls - Phase II		3,000,000			3,000,000
260505	Rehabilitation of Outfalls - Phase IV	\$	1,799,075		\$	1,799,075
260600	CSO Facilities Improvements	\$	(2,183,000)		\$	(2,183,000)
260601	Oakwood Drain Valve Improvements	\$	33,000		\$	33,000
260603	Conner Creek CSO Basin Rehab	\$	775,000		\$	775,000
260607	Lieb SDF Electrical Improvements	\$	450,000		\$	450,000
260608	Seven Mile RTB - Roof Replacement	\$	300,000		\$	300,000
260609	Seven Mile RTB - Parking Lot / Sitework	\$	400,000		\$	400,000
260611	HVAC Improvements At Lieb SDF	\$	225,000		\$	225,000
Grand Total		\$	- :	\$ (4,895,995)	\$	(4,895,995)