City of Hastings

Capital Improvement Plan

March 2024

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INTRODUCTION

Capital Improvement Planning helps coordinate the needs and priorities of the City with sound fiscal management. The CIP includes all planned capital expenditures for the upcoming six-year period (upcoming fiscal year plus 5). Consideration is given to the City's adopted Master Plan, City Council defined goals & objectives, and various infrastructure plans and reviews when creating the annual CIP. Additionally, the coordination and timing of projects is critical to ensure an efficient and responsible use of public funds for capital improvements.

Some of the many benefits that the CIP provides the residents and stakeholders include:

- Use as a tool to optimize the use of revenue
- Focus attention on community goals, needs, and capabilities
- Guide future growth and development
- Encourage efficiencies
- Help maintain a sound and stable financial program
- Enhance opportunities for the participation in federal and/or state grant programs

A capital improvement for the purpose of this plan is any capital expense of at least $10,000 in value that has a useful life of three years or longer. This could include property acquisition, facility construction, non-recurring rehabilitation, major equipment purchase, or any planning, feasibility, or design study related to an individual capital improvement project.

The City of Hastings public infrastructure includes drinking water supply and delivery systems, wastewater collection and treatment systems, storm drainage systems, and public streets. These systems are aging, and certain parts need to be repaired or replaced to keep up with deterioration over time. In addition to the City's mostly linear (right-of-way related) infrastructure, this plan includes capital planning for at least 6 years of all types of public structures and assets including: public parks and recreation, city-owned buildings and parking lots, public works assets, cemeteries, public safety (police and fire), library, and other related city-owned assets.

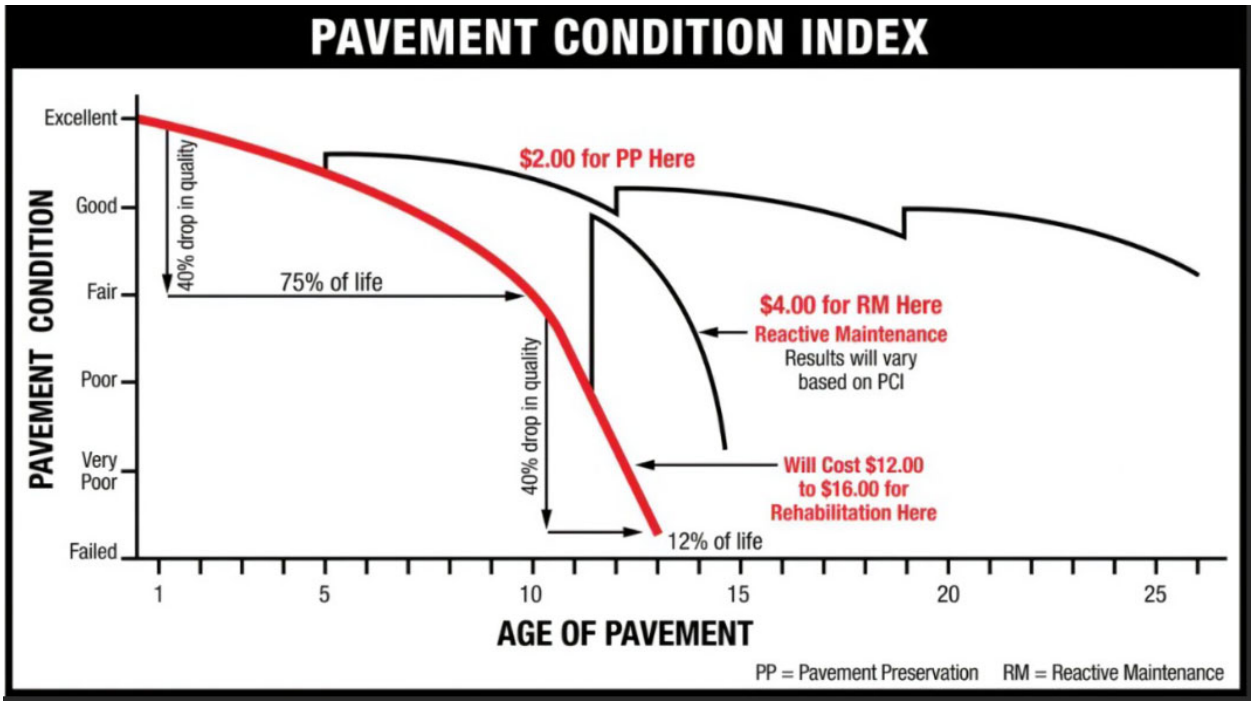
Waiting until something breaks to make emergency repairs is expensive and often leads to unexpected budget impacts. A more proactive approach can minimize life cycle costs using the following steps:

- Evaluate the condition and capacity of assets to determine the needs
- Implement a maintenance program for the small needs
- Implement a Capital Improvement Plan for the big needs
- Develop financial strategies to fund all planned work before needs become emergencies

PLANNING FRAMEWORK

The philosophy behind the capital improvement plan is rooted in asset management. Asset management is an ongoing process of maintaining, preserving, upgrading, and operating physical assets cost-effectively, based on a continuous physical inventory and condition assessment and investment to achieve established performance goals. Asset management minimizes the total cost of owning and operating systems while delivering services at a level desired by customers.

An example of asset management can be found by consulting a pavement condition index. The index demonstrates how making preventative maintenance a priority is more cost effective and lengthens the useful life of pavement relative to focusing on the worst condition roads and making expensive repairs.



Proper asset management for pavement would include routine condition assessments of the road system, consideration of the most cost-effective treatments, and consideration of the level of service the road provides residents and taxpayers. It also considers the timing of related infrastructure improvements, such as water and sewer, which may impact pavement quality and cost of a project. Another consideration is the criticality of the infrastructure – what would result if there was a failure?

Asset management principles can be used for any infrastructure system.

Project considerations without asset management	Project considerations based on asset management
• What system element is in the worst condition? • What do I think is the most important project? • What do we have funds to do? • How can we "fix" the most problems at one time?	• Where can we get the most bang for our buck? • How can we sustain the level of service our residents expect? • How can we use data to make informed decisions?

CIP Summary Table

		2025	2026	2027	2028	2029	2030	Total
General Services								
CH-1	City Hall Improvements			30,000	20,000	20,000	20,000	90,000
CH-2	Break Room Improvements		15,000					15,000
CH-3	Replace Phone System		45,000					45,000
CH-4	Elevator Modernization			175,000				175,000
DPS-1	Screening of Compost Facility	20,000		25,000		25,000		70,000
Total General Services		20,000	60,000	230,000	20,000	45,000	20,000	395,000
Parks & Recreation								
P-1	Fish Hatchery Restrooms	450,000						450,000
P-2	Fish Hatchery Softball Field		95,000					95,000
P-3	Fish Hatchery Walking Path Reconstruction			45,000				45,000
P-4	Tangle Town Renovation	650,800						650,800
P-5	Tyden Park Pavillion Restoration		20,000					20,000
P-6	Tyden Park Riverwalk Trail				65,000			65,000
P-7	Tyden Park Drive and Parking			75,000				75,000
P-8	Sweezy's Pond Improvements	10,000						10,000
P-9	Non-motorized Trail / McNair St					100,000		100,000
P-10	Bob King Park "tot lot"		60,000					60,000
P-11	River Access Improvements						25,000	25,000
P-12	Hammond Hills Green Restroom Construction			80,000				80,000
P-13	Hammond Hills Parking Lot Expansion				300,000			300,000
P-14	Pickleball at Bob King Park	15,000						15,000
Total Parks & Recreation		1,125,800	175,000	200,000	365,000	100,000	25,000	1,990,800
Library								
L-1	Library Lower Roof Replacement	10,500						10,500
L-2	Library Upper Roof Replacement				180,000			180,000
Total Library		10,500	0	0	180,000	0	0	190,500

CIP Summary Table

		2025	2026	2027	2028	2029	2030	Total
Water/Sewer Department								
W-1	Chlorinator 2 Upgrade	40,000						40,000
W-2	Water Reliability Study					25,000		25,000
W-3	Elevated Storage Tank Inspections			40,000				40,000
W-4	Water Plant High Service Pumps - Pull & Inspect	35,000		35,000		35,000		105,000
W-5	Well #1 - Pull and Inspect Pump	35,000						35,000
W-6	Water Asset Management Plan Update	15,000					15,000	30,000
W-7	Generator Enclosure	50,000						50,000
W-8	Filter Tank Painting	10,000						10,000
W-9	Iron Filter Media Inspection and Replacement						300,000	300,000
W-10	Ground Storage Fill Flow Valve Control		20,000					20,000
SS-2	Final Clarifier #2 - rotating mechanism replacement	350,000						350,000
SS-1	Final Clarifier #1 - rotating mechanism replacement				400,000			400,000
SS-3	Scum Collector/Separator						250,000	250,000
SS-4	4 New LDO Probes	40,000						40,000
W-11	Construct new elevated storage tank						3,000,000	3,000,000
SS-12	Air Scrubber Media Replacement		15,000		15,000		15,000	45,000
SS-13	North Primary Clarifier Mechanism Replacement					400,000		400,000
SS-17	Additional Blower				175,000			175,000
SS-18	Railroad St Lift Station Replacement						524,000	524,000
WS-33	North and Broadway Water and Sewer Improvements			6,666,805				6,666,805
WS-19	Green/Market St. Sanitary Sewer Replacement (Broadway to Fish Hatchery Park/State St to Green St)	7,302,060						7,302,060
SS-20	Sanitary Sewer Televising Program			50,000	50,000	50,000	50,000	200,000
W-21	Marshall St. Water Main Replacement & LSLR Project (Jefferson to West End)					1,785,070		1,785,070
W-22	Clinton St. (east)/Dibble Water Main Replacement/Transmission Improvements (Hanover/M37 to State St)		4,790,991					4,790,991
W-23	Clinton St. (west) Water Main & LSL Replacement Project (Michigan to West End), and S Benton St. Sanitary & Storm Sewer Replacement (Clinton to Walnut)				2,681,239			2,681,239
W-24	Hanover Improvements			549,975				549,975
SS-24	Apple Street Sanitary Trunk Sewer Replacement			4,609,744				4,609,744
W-25	Lead Service Line Replacements	350,000	0	350,000	88,750	177,500	357,000	1,323,250
SS-26	Mill Street Sanitary Replacement (Michigan to Jefferson)			175,000				175,000
SS-27	E. Madison Sanitary Replacement						450,000	450,000
SS-28	Smoke Testing for Sanitary Sewer I&I				65,000			65,000
WS-29	Water Meter Replacement Program	200,000	200,000					400,000
SS-30	Sanitary Sewer Spot Repairs			50,000	50,000			100,000
SS-31	sanitary sewer root treatment	25,000						25,000
SS-32	Wastewater Treatment Plant Aerator Tank Access Safety Improvement	20,000						20,000
Total Water/Sewer		8,472,060	5,025,991	12,526,524	3,524,989	2,472,570	4,961,000	36,983,134

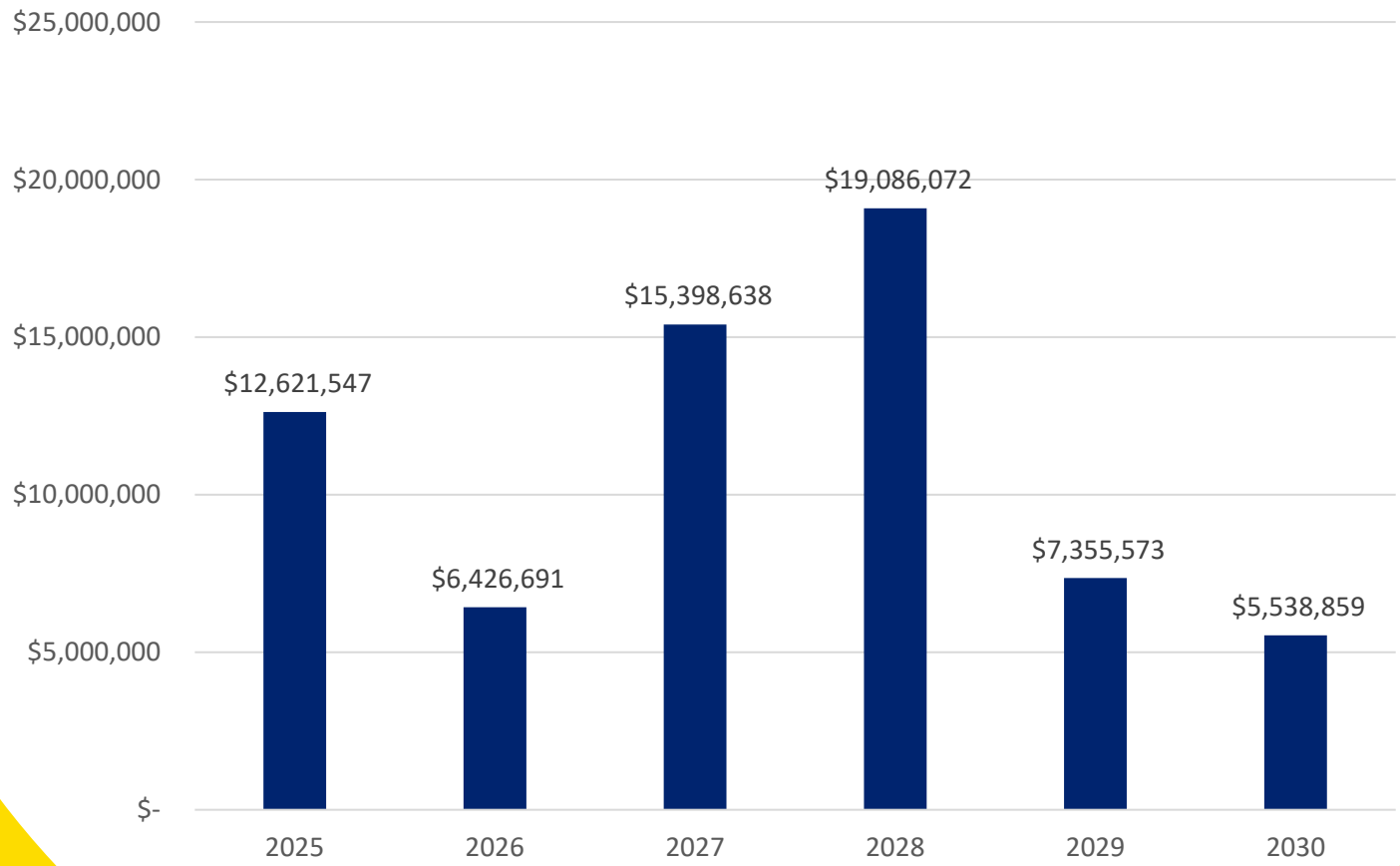
CIP Summary Table

		2025	2026	2027	2028	2029	2030	Total
Streets								
MS-1	Stop Sign Replacement	12,000						12,000
MS-2	Michigan Ave Bridge Maintenance	50,000						50,000
MS-3	Boltwood Storm Sewer Replacement	30,000						30,000
MS-4	State St Storm Sewer Replacement			345,000				345,000
MS-5	Chipsealing	175,000						175,000
MS-6	E. State Rd Mill and resurface			600,000				600,000
MS-7	E. Grand Street storm sewer replacement					210,000		210,000
MS-8	E. Grand Street mill & resurface					600,000		600,000
MS-9	concrete repairs - sidewalk, curb & gutter, drive approaches	50,000	50,000		50,000	50,000	50,000	250,000
MS-10	E. State Street - mill and resurface	600,000						600,000
MS-11	Woodlawn Sidewalk Install Broadway to Bob King Park			50,000				50,000
MS-13	Clinton St. (west) (Michigan to West End), and S Benton Storm Sewer Replacement (Clinton to Walnut)				1,649,137			1,649,137
MS-15	Hanover Improvements			373,404				373,404
LS-1	Road Gravel	10,000						10,000
LS-2	concrete repairs - sidewalk, curb & gutter, drive approaches	30,000	30,000	30,000	30,000	30,000	30,000	180,000
LS-3	Marshall St. (Jefferson to West End)					1,096,873		1,096,873
S-1	Storm Sewer Televising Program	69,000	71,000	73,000	75,000	78,000	81,000	447,000
S-2	Storm Sewer Spot Repairs					38,807		38,807
Total Streets		1,026,000	151,000	1,471,404	1,804,137	2,103,680	161,000	6,717,221
Cemetery								
RC-1	Riverside Cemetery Reflective Area	125,000	100,000	125,000				350,000
Total Cemetery		125,000	100,000	125,000	0	0	0	350,000
TIF Funds								
DDA-1	Downtown street light replacements				415,000			415,000
DDA-2	Downtown sidewalk improvements					200,000	200,000	400,000
DDA-3	Parking Lot 8	235,000						235,000
Total TIF		235,000	0	0	415,000	200,000	200,000	1,050,000

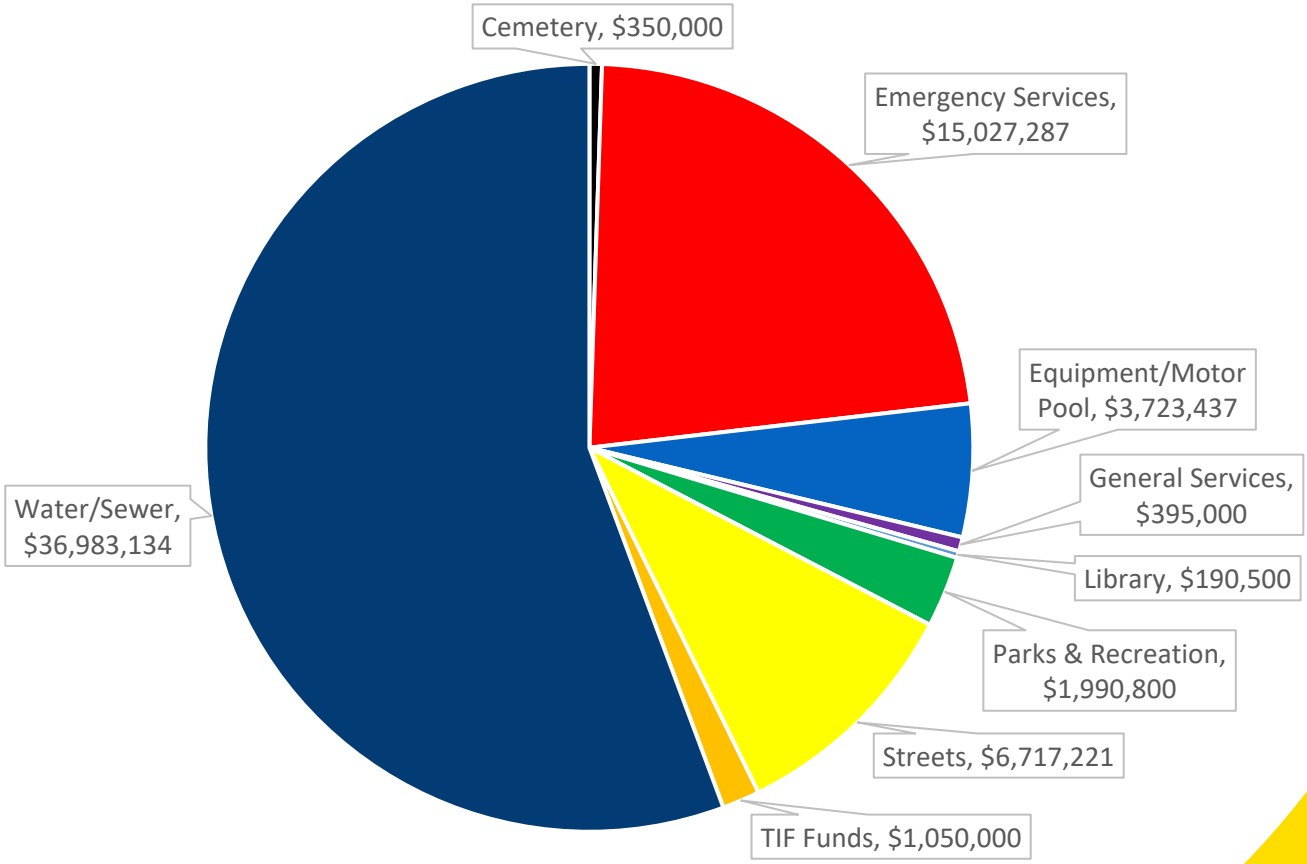
CIP Summary Table

		2025	2026	2027	2028	2029	2030	Total
Emergency Services								
PD-1	Patrol Vehicle Replacement (#41)					60,000		60,000
PD-2	Patrol Vehicle Replacement (#43)					60,000		60,000
PD-3	Patrol Vehicle Replacement (#42)			55,000				55,000
PD-4	Patrol Vehicle Replacement (#47)			55,000				55,000
PD-5	Duty Weapon Replacement		11,000					11,000
PD-6	Radar Trailer Replacement		15,000					15,000
PD-7	Replacement of Police Chief's Vehicle	65,000						65,000
PD-8	Police Department Workspace Update	45,000						45,000
PD-9	Enclosed Trailer	15,000						15,000
F-1	Replacement Nozzles	3,222	3,800	3,800	3,800			14,622
F-2	Chain Saws	3,365	3,100	3,100				9,565
F-4	Fire Fighting Hose		16,000					16,000
F-5	Turnout Gear (4 sets annually)	13,600	13,600	13,600	13,600	13,600	13,600	81,600
F-6	800 Radios	23,000	7,000	3,500				33,500
F-7	CPR chest compressor				26,000			26,000
F-8	*Engine Replacement (832) BIRCH OWNED*	*565,000*						565,000
F-9	Aerial Replacement (836)					1,900,000		1,900,000
ES-1	Emergency Services Building Construction				12,000,000			12,000,000
Total Emergency Services		733,187	69,500	134,000	12,043,400	2,033,600	13,600	15,027,287
Equipment/Motor Pool								
MP-1	Superintendent Vehicle (#20)	62,000	65,100	68,355	71,773	75,361	79,129	421,719
MP-2	Superintendent Vehicle (#30)	62,000	65,100	68,355	71,773	75,361	79,129	421,719
MP-3	Dust control attachment for swap loader truck					40,000		40,000
MP-4	3-sided storage bldg					75,000		75,000
MP-5	Front End Loader (#220)		265,000					265,000
MP-6	Service Truck (#40)	90,000						90,000
MP-7	Dump Truck Replacement (#130)	210,000						210,000
MP-10	John Park Mower Replacement (#300)		55,000					55,000
MP-11	C-7500 2000 GMC Replacement (#120)	185,000						185,000
MP-12	2014 International Dump Truck (#140)	185,000						185,000
MP-13	International Sweeper 2018 (#270)		395,000					395,000
MP-14	Cat Skid Steer 2014 (#430)					135,000		135,000
MP-15	Salt Spreader Replacement 6.9 yds (#62)	30,000						30,000
MP-16	Salt Spreader Replacement 6.9 yds (#92)	30,000						30,000
MP-17	Vactor Truck Replacement (#240)			575,000				575,000
MP-18	Pull behind Air Compressor (#160)	20,000						20,000
MP-19	Front End Loader (#250)				325,000			325,000
MP-20	Excavator Replacement (#180)				265,000			265,000
Total Equipment/Motor Pool		874,000	845,200	711,710	733,546	400,723	158,259	3,723,437
	GRAND TOTAL 2025 - 2030							**66,427,379**

Planned Spending By Year
FY 2025-2030
$66,427,379



Total Project Cost by Category
FY 2025-2030
$66,427,379



General Services

General Services		2025	2026	2027	2028	2029	2030	Total
CH-1	City Hall Improvements			30,000	20,000	20,000	20,000	90,000
CH-2	Break Room Improvements		15,000					15,000
CH-3	Replace Phone System		45,000					45,000
CH-4	Elevator Modernization			175,000				175,000
DPS-1	Screening of Compost Facility	20,000		25,000		25,000		70,000
Total General Services		20,000	60,000	230,000	20,000	45,000	20,000	395,000

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: City Hall Improvements

Project ID #: _____ CIP ID #: CH-1

Department: General Anticipated Start Date: 07/2026

Date Prepared: 12/27/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of carpet in hallway and council chambers. Paint hallways, stairwells, and elevator.

Project Need: Provide a brief explanation of why the project is necessary.

General disrepair.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 30,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

none

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Break Room Improvements

Project ID #: _____ CIP ID #: CH-2

Department: General Anticipated Start Date: 7/2025

Date Prepared: 12/27/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Update city hall break room including flooring, fixtures, furniture and similar improvements.

Project Need: Provide a brief explanation of why the project is necessary.

The break room has never had a significant update since the purchase of the building. A revision would make it a more appealing and suitable break location.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

no.

Does the project share space or overlap with other CIP projects? Please describe.

no.

Project Cost: $ 15,000.00

Please check one of the following for cost basis:

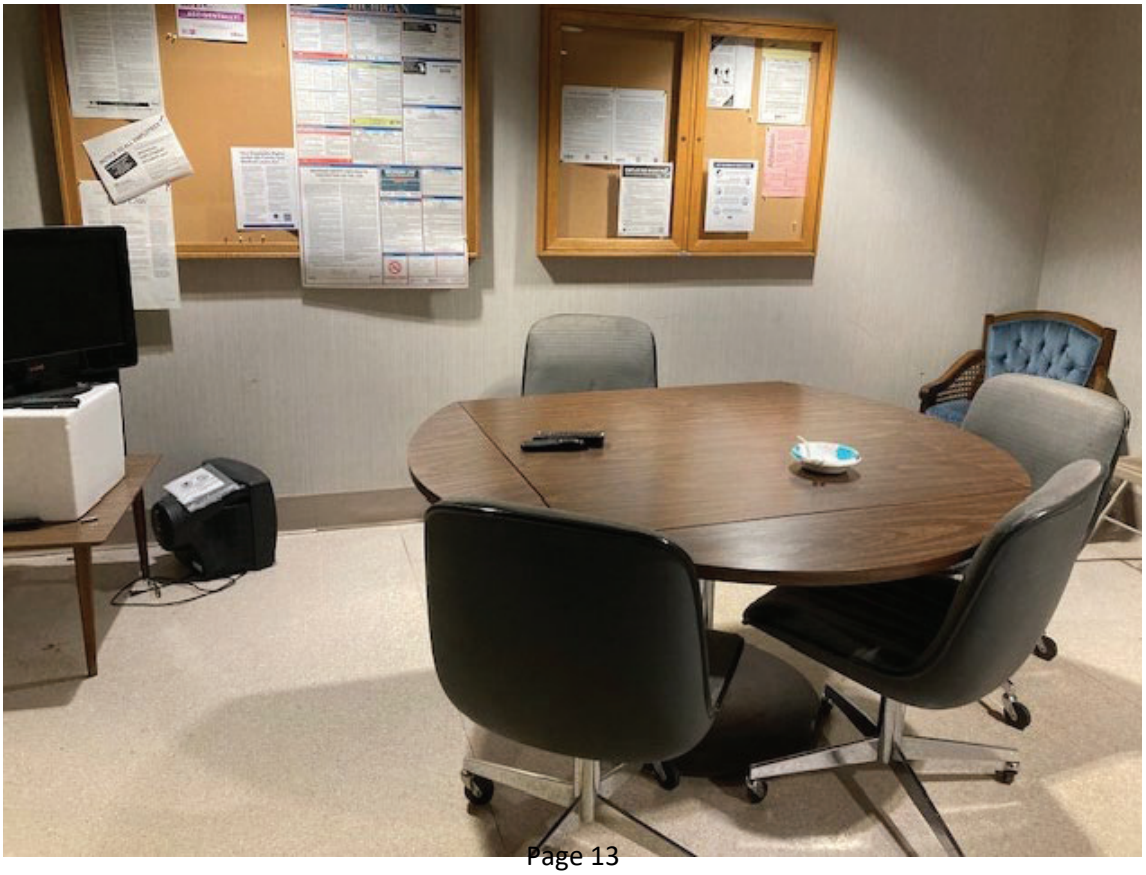
- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

Photos



City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replace Phone System

Project ID #: _____ CIP ID #: CH-3

Department: _____ Anticipated Start Date: 01/2025

Date Prepared: 03/06/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replace phones and software for telephonic system for the City.

Project Need: Provide a brief explanation of why the project is necessary.

Our existing phone system is old and limited in its capabilities. Last year, we updated the software to a more modern system and moved to VOIP rather than a direct copper line connection. This improvement allowed our phones to continue to function when Internet Explorer went offline but did not provide service improvement.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 45,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: City Hall Elevator Modernization

Project ID #: _____ CIP ID #: CH-4

Department: _____ Anticipated Start Date: 07/2026

Date Prepared: 02/19/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Upgrading City Hall's elevator by replacing existing equipment and replacing with new:
Soft starter, Power Unit, Controller, Special Emergency Service, Applied Car Operating Panel, Handsoff Phone, Hoist Operating Devices, and other misc. items.

Project Need: Provide a brief explanation of why the project is necessary.

There are changes to the building code that will come into effect in a few years which need to be applied to our elevator. The proposed upgrades would be to meet these upcoming requirements as well as update the overall elevator function. The original elevator manufacturer is no longer in production.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 175,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

Otis quote dated 01/25/24

Otis Service and Repair Order

1/25/2024

CUSTOMER NAME
Hastings City Hall
201 East State Street
Hastings, MI 49058

OTIS ELEVATOR COMPANY
77 E. MICHIGAN, SUITE 10
BATTLE CREEK, MI 49017

OTIS CONTACT
Kelli Shafley
Phone:
Email: Kelli.Shafley1@otis.com

PROJECT LOCATION
HASTINGS CITY HALL
201 EAST STATE STREET
HASTINGS, MI 49058

PROPOSAL NUMBER
QTE-001820777

OTIS SERVICE AND REPAIR ORDER

We propose to furnish the necessary material and labor on the following units:

Unit	Customer Designation
D54276	ELEVATOR 1

SCOPE OF WORK

Otis' HYDRO ACCEL ELEVATOR MODERNIZATION - BUDGET PRICING
We propose to furnish labor and material to provide a hydraulic microprocessor-based control system. It is specifically designed to meet the particular needs of modernizing hydraulic elevators. The system is integrated by communications over serial links and discrete wiring.

DUTY
The present capacity will be retained.

TRAVEL
The present travel will be retained.

STOPS AND OPENINGS
Present stops and openings will be retained.

POWER SUPPLY (RETAINED)
The present power supply will be retained and the new equipment will be arranged for this power supply.

SOFT STARTER (NEW)
A new solid-state starter will be provided. It will be of the same power requirement and starting configuration as presently exists.

POWER UNIT (NEW)
The existing power unit will be replaced with a new power unit. The new power unit consists of a positive displacement pump, motor, integral 4-coil control valve, oil tank and muffler.
The pump and motor are submerged and are mounted to the tank with rubber isolators to reduce vibration and noise. A muffler is provided to dissipate pulsations and noise from the flow of hydraulic fluid. The valve consists of up, up leveling, down and down leveling controls along with manual lowering and a pressure relief valve.

AUTOMATIC SELF-LEVELING (WITH NEW HOISTWAY LEVELING DEVICE)

The elevator shall be provided with automatic self-leveling that shall bring the elevator car level with the floor landings, no more than +/- 1/2" assuming proper loading. The automatic self-leveling shall correct for over travel or under travel.

CONTROLLER

A microprocessor-based control system shall be provided to perform all the functions of safe elevator motion and elevator door control. This shall include all the hardware required to connect, transfer and interrupt power, and protect the motor against overloading. The system shall also perform group operational control.

Each controller cabinet containing memory equipment shall be properly shielded from line pollution. The microcomputer system shall be designed to accept reprogramming with minimum system downtime.

OPERATION - ONE CAR

Operation shall be automatic by means of the car and landing buttons. Stops registered by momentary actuation of the car or landing buttons shall be made in the order in which the landings are reached in each direction of travel after the buttons have been actuated. All stops shall be subject to the respective car or landing button being actuated sufficiently in advance of the arrival of the car at that landing to enable the stop to be made. The direction of travel for an idle car shall be established by the first car or landing button actuated.

“UP” landing, calls shall be answered while the car is traveling in the up direction and “DOWN” landing, calls shall be answered while the car is traveling down. The car shall reverse after the uppermost or lowermost car or landing call has been answered, then proceed to answer car calls and landing calls registered in the opposite direction of travel.

If the car without registered calls arrives at a floor where both up and down hall calls are registered, it shall initially respond to the hall call in the direction that the car was traveling. If no car call or hall call is registered for further travel in that direction, the car shall close its doors and immediately reopen them in response to the hall call in the opposite directions. Direction lanterns, if furnished, shall indicate the change of direction when the doors reopen.

An independent service switch shall be provided in the car operating panel which, when actuated, shall cancel previously registered car calls, disconnect the elevator from the hall buttons and allow operation from the car buttons only.

SPECIAL EMERGENCY SERVICE -FIRE SERVICE

Special Emergency Service operation shall be provided in compliance with the revision of the ASME/ANSI A17.1 Code. Special Emergency Service Phase I to return the elevator (s) non-stop to a designated floor shall be initiated by an elevator smoke detector system or a keyswitch provided in a lobby fixture. If required, the smoke detector system is to be furnished by others. The elevator contractor shall provide input connections on the elevator controller to receive signals from the smoke detector system. A keyswitch in the car shall be provided for in-car control of each elevator when on Phase II of Special Emergency Service. If an elevator is on independent service when the elevators are recalled on Phase I operation, a buzzer shall sound in the car and a jewel shall be illuminated, subject to applicable codes.

INSPECTION OPERATION

For inspection purposes, an enabling keyswitch shall be provided in the car operating panel to permit operation of the elevator from on top of the car and to make car and hall buttons inoperative

On top of the car an operating fixture shall be provided containing continuous pressure “UP” and “DOWN” buttons, an emergency stop button, and an inspection-initiating switch. This switch makes the fixture operable and, at the same time, makes the door operator and car and hall buttons inoperable

OTIS REM® MAINTENANCE

We will provide a microprocessor system that continuously monitors the Unit(s) on a 24-hour per day, year-round basis. The system will notify our OTISLINE® dispatching center that a Unit is inoperative by sending a message via telephone line. Upon the receipt of such message, we will either notify your on-site representative or initiate the dispatch of our personnel for emergency minor adjustment callback service during regular working hours of our regular working days for the mechanics that perform the service.

We will collect data on the equipment condition, including hydraulic tank oil level, door operation, leveling and whether the operation of a Unit has been interrupted. That information will be used to tailor the Otis Maintenance Management System™ preventive maintenance program for the Unit(s).

You will furnish us at your expense, one (1) outside telephone line to the elevator machine room that allows data calls to and from a toll-free number at our OTISLINE dispatching center. The telephone line may be a separate line dedicated to the REM® maintenance equipment or may be an existing line that is shared between another telephone and the REM maintenance equipment.

All of the REM maintenance monitoring equipment installed by us remains our property and if the Contract is terminated for any reason, we will be given access to your premises to remove the monitoring equipment at our expense.

ACCESSALERT HOISTWAY SAFETY DEVICE
Included in this scope of work we will furnish and install all of the necessary components, circuitry and wiring for a new AccessAlert system, which will operate on the elevator car top and pit. AccessAlert will be installed so the elevator can be controlled in a safe manner when an authorized person accesses the elevator hoistway.

APPLIED CAR OPERATING PANEL (NEW)
An applied car-operating panel shall be furnished. The panel shall contain a bank of illuminated buttons marked to correspond with the landings served, an emergency call button, emergency stop button or switch, door open and door close buttons, and a light switch. The emergency call button shall be connected to a bell that serves as an emergency signal. A fan switch, if optional fan is provided, shall also be located in the car-operating panel. All car operating panel lamps shall be the low-voltage long life lamps.

OTIS HANDSOFF® PHONE (NEW)
We propose to furnish and install the Otis HANDSOFF® phone. The HANDSOFF phone is a telephone that enables communication between persons in the elevator and a 24-hour answering service.

The HANDSOFF phone will be mounted in a telephone box or surface mounted in the elevator cab. It will automatically dial a preprogrammed number and will inform the answering service of the elevator location via prerecorded digital voice communication. After disclosing the elevator location, the phone will allow two-way voice communication. The HANDSOFF phone contains two light-emitting diodes -- one that indicates the call is in progress and another that indicates the call has been acknowledged. After receiving acknowledgment of the call from the answering service, a deaf/mute person can signal the answering service by reactivating the call button. The phone can be easily programmed and allows incoming calls to be received. The telephone will be furnished and installed in accordance with the ASME A17.1 Safety Code for Elevators and Escalators and is registered with the FCC.

CAR POSITION INDICATOR
A digital position indicator shall be provided and installed in car operation panel.

AUDIBLE SIGNAL (INDICATES PASSING OR STOPPING AT A LANDING) (NEW)
An audible signal shall sound in the car to tell passengers that the car is either stopping or passing a landing served by the elevator.

"IN-CAR" DIRECTION LANTERNS (NEW)

New direction lantern(s) shall be mounted in or near the car entrance jamb(s), visible from the corridor, which when the car stops and the doors are opening, shall indicate the direction in which the car will travel. A chime shall also be furnished on the car that will sound once for the "UP" direction and twice for the "DOWN" direction as the doors are opening.

EMERGENCY CAR LIGHTING (NEW)
An emergency power unit employing a 12-volt sealed rechargeable battery and a totally static circuit shall be provided. The power unit shall illuminate the elevator car and provide current to the alarm bell in the event of normal power failure. The equipment shall comply with the requirements of the latest revision of the ASME/ANSI A17.1 Code.

HALL BUTTONS (NEW)
New hall buttons shall be installed at each landing, an up and a down button at each intermediate landing and a single button at each terminal landing.

When a call is registered by momentary pressure on a landing button, that button shall become illuminated and remain illuminated until the call is answered. Hall button lamps shall be low-voltage, long life lamps.

HOISTWAY OPERATING DEVICES (NEW)
Normal terminal stopping devices shall be provided to slow down and stop the car automatically at the terminal landings and to automatically cut off the power and apply the brake, should the car travel beyond the terminal landings.

CAR GUIDES (RETAINED)
The existing car guides shall be retained. They shall be thoroughly inspected. Any worn parts will be replaced by the original manufacture parts or equal.

CAR FRAME (RETAINED)
The existing car frame shall be retained.

PLATFORM (RETAINED)
The current platform will be retained.

DOOR OPERATOR (NEW)
A new door operator shall be installed.

Doors on the car and at the hoistway entrances shall be power operated by means of the new door operator mounted on top of the car. The door operator is a closed-loop system designed to provide consistent door performance despite changes in temperature or wind and despite the presence of minor debris in the door track. The system continuously monitors door speed and position and adjusts them to match the predefined profile.

Door operation shall be automatic at each landing, with door opening initiated as the car arrives at the landing. Closing will take place after an adjustable time interval expires. An electric car door contact shall prevent the elevator from operating unless the car door is in the closed position.

Door close shall be arranged to start after a minimal time, consistent with ADA requirements. Doors shall be arranged to remain open for an adjustable time period sufficient to meet ADA requirements.

Elevator cars' door-open time intervals, when the car is at a landing, shall be adjustable independently for the cars' responses to car and hall calls.

INTERLOCKS (RETAINED)
The present interlocks will be retained. A thorough examination will be made of the interlocks. All replacement components will be the original manufacture replacement parts or equal.

OPTIGUARD ENTRANCE-PROTECTION DEVICE (NEW)
A solid-state, infrared passenger protection device shall be installed on the car door. This system uses 154 infrared emitters and detectors to create an invisible "net" across the elevator entrance.

The OPTIGUARD system continuously scans for interrupted beams. If any beam in the curtain is interrupted; the OPTIGUARD system will reopen the elevator door instantly.

OPTIGUARD helps reduce potential injury to passengers as they enter and exit the elevator.
The OPTIGUARD systems infrared beams will also detect approaching objects which reduces potential for damage to elevator doors caused by mail carts, stretchers or other moving equipment.

If these beams strike an object in the middle of the entryway, light reflects off the object into special photo-diode receivers mounted on the opposite side of the entrance, which scan into the entryway. If the receivers detect enough light, a reversal signal is generated to open the doors.

If any curtain beam is interrupted, a door-reversal signal will cause the elevator doors to reopen without touching the passenger. After a car stop is made, the door shall remain open for a predetermined interval before closing. If, while the door is closing, the matrix of invisible light beams is interrupted by a passenger entering or leaving the car, the door shall stop and reopen, after which the door shall again start closing.

CAR DOOR HANGER (RETAINED)
The present car door hanger will be retained and inspected for proper alignment. Any adjustment required will be accomplished.

HOISTWAY ENTRANCES (RETAINED)
The present hoistway entrances will be retained.

HOISTWAY DOOR HANGER (RETAINED)
The present hoistway door hanger will be retained and inspected for proper alignment. Any adjustment will be required.

PIT SWITCH (NEW)
An emergency stop switch shall be located in the pit accessible from the pit access door.

SPRING BUFFERS (RETAINED)
The existing spring buffers shall be retained.

WIRING
All new wiring and electrical interconnections shall comply with governing codes. Insulated wiring shall have flame-retardant and moisture-proof outer covering and shall be run in conduit, flexible tubing or electrical wire ways. Traveling cables shall be flexible and suitably suspended to relieve strain on individual conductors.

ENGINEERING DESIGN
All new material furnished will be specifically designed to operate with original elevator equipment being retained, to maximum performance and eliminate any divided responsibility.

SUPERSEDED MATERIAL
All material removed or unused, not required in the modification will become the property of Otis and we reserve the right to remove and retain it.

PERMITS AND INSPECTIONS
The elevator contractor shall furnish all licenses and permits and shall arrange for and make all required inspections and tests.

CODE
The elevator equipment shall be furnished and installed in accordance with the ASME/ANSI A17.1 Safety Code for Elevators and Escalators, An American National Standard, including the latest Supplement, and the Americans with Disabilities Act.

CODE (LOCAL)
The elevator equipment shall comply with all applicable local codes.

WORK BY OTHERS
The following items must be performed by others at no costs to us, and you agree to:
Provide suitable ventilation and cooling equipment, if required, to maintain the machine room ambient temperature between 32oF and 113oF. The relative humidity should not exceed 95 percent non-condensing.

Provide electrical power for light, tools, hoists, etc. during installation as well as electrical current for starting, testing and adjusting the elevator.

Provide a smoke detector system, located as required with wiring from the sensing devices to each elevator controller.

Do any required cutting, including cutouts to accommodate hall signal fixtures, patching and painting of walls, floors or partitions.

Provide a dedicated (non-PBX) touch-tone business telephone line terminated in the machine room.

Provide a fused disconnect switch or circuit breaker for each elevator per the applicable National Electrical Code with feeder or branch wiring to controller. Size to suit elevator contractor.

Provide a 120-volt AC, 20 amp, single-phase power supply with fused SPST disconnect switch for each elevator with feeder wiring to each controller for car lights.

Provide a separate 120-volt AC, 15 amp, single-phase power supply with fused SPST disconnect switch with duplex outlets in the machine room and lobby or other applicable location, for power to each elevator video display panel and controller when display system is provided.

Provide a 120-volt AC, 15 amp, single-phase power supply with fused SPST disconnect switch with duplex outlets in the machine room or other locations as required for information display terminal and controller of information display when provided. Also, provide one (1) pair of shielded/twisted conductors between the terminal and the machine room.

Provide a safe and dry on-site storage area for elevator material.

Any modification or installation of lights and/or electrical outlets in the machine room and/or pit to be performed by others.

LIMITATIONS
Under no circumstances shall Otis be liable for indirect, consequential, or special damages resulting from the installation or use of this product.
We will include all engineering, wiring, print, software, and control changes.

Material provided shall be installed in accordance with the ASME A17.1 Safety Code for Elevators and Escalators.

The customer will be responsible for paying local inspection fees if applicable.

A representative will contact you to schedule the work. All work will be performed during regular working days and hours of the Elevator Trade unless otherwise specified above.

OTIS SERVICE AND REPAIR ORDER

PRICE
$155,768.48
One hundred fifty-five thousand seven hundred sixty-eight and 48/100 dollars

This price is based on a one hundred percent (100%) downpayment in the amount of $155,768.48
Payment terms:

- The base proposal price is contingent upon receiving a downpayment of one hundred percent (100%) of the base contract amount.
- The downpayment amount is due in full prior to Otis ordering material and/or mobilizing.
- If you choose the alternative downpayment amount listed below, the corresponding adjustment shall be applied to the base contract amount.

Downpayment Percent	Price Adjustment Percentage	Authorization (Initial)
25%	+ 10%	
75%	+ 5%	

In the event 100% of the contract price is not paid up front, we must be paid the remaining balance no later than the completion of work. Final invoice will be submitted once work is scheduled.

This proposal, including the provisions printed on the pages following, shall be a binding contract between you, or the party identified below for whom you are authorized to contract (collectively referred to herein as "you"), and us when accepted by you through execution of this proposal by you and approved by our authorized representative; or by your authorizing us to perform work for the project and our commencing such work.

SUGGESTED BY: DAVID J WALLACE
TITLE: Mechanic

Accepted in Duplicate

Hastings City Hall	**Otis Elevator Company**
Date:_____	Date:_____
Signed:	Signed:
_____	_____
Print Name: _____	Print Name: Adam Drake
Title: _____	Title: Director & GM - Michigan
Email: _____	Email: _____

Company Name: Hastings City Hall

□ Principal, Owner or Authorized Representative of Principal or Owner

□ Agent _____
(Name of Principal or Owner)

TERMS AND CONDITIONS

1. This quotation is subject to change or withdrawal by us prior to acceptance by you.
2. The work shall be performed for the agreed price plus any applicable sales, excise or similar taxes as required by law. In addition to the agreed price, you shall pay to us any future applicable tax imposed on us, our suppliers or you in connection with the performance of the work described.
3. Payments shall be made as follows: A down payment of One Hundred percent (100.0%) of the price shall be paid by you upon your signing of this document. Full payment shall be made on completion if the work is completed within a thirty days period. If the work is not completed within a thirty day period, monthly progress payments shall be made based on the value of any equipment ready or delivered. We reserve the right to discontinue our work at any time until payments shall have been made as agreed and we have assurance satisfactory to us that subsequent payments will be made when due. Payments not received within thirty (30) days of the date of invoice shall be subject to interest accrued at the rate of eighteen percent (18%) per annum or at the maximum rate allowed by applicable law, whichever is less. We shall also be entitled to reimbursement from you of the expenses, including attorney's fees, incurred in collecting any overdue payments.
4. Our performance is conditioned upon your securing any required governmental approvals for the installation of any equipment provided hereunder and your providing our workmen with a safe place in which to work. Additionally, you agree to notify us if you are aware or become aware prior to the completion of the work of the existence of asbestos or other hazardous material in any elevator hoistway, machine room, hallway or other place in the building where Otis personnel are or may be required to perform their work. In the event it should become necessary to abate, encapsulate or remove asbestos or other hazardous materials from the building, you agree to be responsible for such abatement, encapsulation or removal, and in such event Otis shall be entitled to delay its work until it is determined to our satisfaction that no hazard exists and compensation for delays encountered if such delay is more than sixty (60) days. In any event, we reserve the right to discontinue our work in the building whenever in our opinion this provision is being violated.
5. Unless otherwise agreed in writing, it is understood that the work shall be performed during our regular working hours of our regular working days. If overtime work is mutually agreed upon and performed, an additional charge therefore, at our usual rates for such work, shall be added to the contract price. The performance of our work hereunder is conditioned on your performing the preparatory work and supplying the necessary data specified on the front of this proposal or in the attached specification, if any. Should we be required to make an unscheduled return to your site to begin or complete the work due to your request, acts or omissions, then such return visits shall be subject to additional charges at our then current labor rates.
6. Title to any material to be furnished hereunder shall pass to you when final payment for such material is received. In addition, we shall retain a security interest in all material furnished hereunder and not paid for in full. You agree that a copy of this Agreement may be used as a financing statement for the purpose of placing upon public record our interest in any material furnished hereunder, and you agree to execute a UCC -1 form or any other document reasonably requested by us for that purpose.
7. Except insofar as your equipment may be covered by an Otis maintenance or service contract, it is agreed that we will make no examination of your equipment other than that necessary to do the work described in this contract and assume no responsibility for any part of your equipment except that upon which work has been done under this contract.
8. Otis shall not be liable for any loss, damage or delay due to any cause beyond our reasonable control including, but not limited to, acts of government, strikes, lockouts, other labor disputes, fire, explosion, theft, floods, water damage, weather damage, extreme weather, traffic conditions, epidemic, pandemic, quarantine (including Covid-19), sabotage, cyber security, national emergency, act of terrorism, earthquake, riot, civil commotion, war or insurrection, vandalism, misuse, abuse, mischief, or acts of God or nature.
9. We warrant that all services furnished will be performed in a workmanlike manner. We also warrant that any equipment provided hereunder shall be free from defects in workmanship and material. Our sole responsibility under this warranty shall be at our option to correct any defective services and to either repair or replace any component of the equipment found to be defective in workmanship or material provided that written notice of such defects shall have been given to us by you within ninety (90) days after completion of the work or such longer period as may be indicated on the front of this form. All defective parts that are removed and replaced by us shall become our property. We do not agree under this warranty to bear the cost of repairs or replacements due to vandalism, abuse, misuse, neglect, normal wear and tear, modifications not performed by us, improper or insufficient maintenance by others, or any causes beyond our control. We shall conduct, at our own expense, the entire defense of any claim, suit or action alleging that, without further combination, the use by you of any equipment provided hereunder directly infringes any patent, but only on the conditions that (a) we receive prompt written notice of such claim, suit or action and full opportunity and authority to assume the sole defense thereof, including settlement and appeals, and all information available to you for such defense; (b) said equipment is made according to a specification or design furnished by us; and (c) the claim, suit or action is brought against you. Provided all of the foregoing conditions have been met, we shall, at our own expense, either settle said claim, suit or action or shall pay all damages excluding consequential damages and costs awarded by the court therein and, if the use or resale of such equipment is finally enjoined, we shall, at our option, (i) procure for you the right to use the equipment, (ii) replace the equipment with equivalent noninfringing equipment, (iii) modify the equipment so it becomes noninfringing but equivalent, or (iv) remove the equipment and refund the purchase price (if any) less a reasonable allowance for use, damage and obsolescence.
   THE EXPRESS WARRANTIES SET FORTH HEREIN ARE THE EXCLUSIVE WARRANTIES GIVEN; WE MAKE NO OTHER WARRANTIES EXPRESS OR IMPLIED, AND SPECIFICALLY MAKE NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE; AND THE EXPRESS WARRANTIES SET FORTH IN THIS ARTICLE ARE IN LIEU OF ANY SUCH WARRANTIES AND ANY OTHER OBLIGATION OR LIABILITY ON OUR PART.
10. Under no circumstances shall either party be liable for special, indirect, liquidated, or consequential damages in contract, tort, including negligence, warranty or otherwise, notwithstanding any indemnity provision to the contrary. Notwithstanding any provision in any contract document to the contrary, our acceptance is conditioned on being allowed additional time for the performance of the Work due to delays beyond our reasonable control. Your remedies set forth herein are exclusive and our liability with respect to any contract, or anything done in connection therewith such as performance or breach thereof, or from

the manufacture, sale, delivery, installation, repair or use of any equipment furnished under this contract, whether in contract, in tort (including negligence), in warranty or otherwise, shall not exceed the price for the equipment or services rendered.

11. To the fullest extent permitted by law, you agree to defend, indemnify, and hold Otis harmless against any claim or suit for personal injury or property damage alleged to arise out of this contract, except to the extent that such damage or injury has been adjudicated as having been caused by Otis' sole negligence. In the event that Otis is requested to provide hoistway cartop/pit access to you, and/or to third parties acting at your request, direction, or control, and which may be subject to additional charges at Otis' sole discretion, then in addition to the foregoing defense, indemnity and hold harmless obligations, you shall carry and maintain the following insurance throughout the duration of such work in the hoistway/cartop/pit areas, and will furnish to Otis a certificate of insurance evidencing the following: Commercial General Liability insurance, written on an occurrence basis, with limits on a per occurrence basis of at least $2,000,000 for personal injury or death, and $2,000,000 for property damage, naming Otis as additional insured. Such insurance shall be issued by an insurer authorized to do business in the state or province where the property is located and the equipment and/or services are to be rendered, shall contain a clause in the policy setting forth the insurer's acceptance of liability as set forth in this agreement, and a clause pursuant to which the insurer waives any right of subrogation as to Otis. This policy shall be written as a primary policy only, and not contributing to or in excess of any insurance carried by Otis. You shall provide Otis with at least thirty (30) days prior written notice of cancellation or material change in the coverage.
12. It is agreed that after completion of our work, you shall be responsible for ensuring that the operation of any equipment being furnished hereunder is periodically inspected. The interval between such inspections shall not be longer than what may be required by the applicable governing safety code.
13. In furtherance of OSHA's directive contained in 29 C.F.R. § 1910.147(f)(2)(i), which requires that a service provider (an "outside employer") and its customer (an "on-site employer") must inform each other of their respective lock out/tag out ("LOTO") procedures whenever outside servicing personnel are to be engaged in control of hazardous energy activities on the customer's site, Otis incorporates by reference its mechanical LOTO procedures and its electrical LOTO procedures. These procedures can be obtained at www.otis.com by clicking on "Tools & Resources" on the home page, selecting "Lockout Tagout Policy" under the "Safety Information" column and downloading the "Lockout Tagout Policy Otis 6.0" and "Mechanical Energy Policy Otis 7.0," or the then most current version, both of which are in .pdf format. You agree that you will disseminate these procedures throughout your organization to the appropriate personnel who may interact with Otis personnel while Otis personnel are working on site at your facility and will ensure that such personnel comply with these LOTO procedures while Otis personnel are working on site.
14. This Agreement constitutes the entire understanding between the parties regarding the subject matter hereof and may not be modified by any terms on your order form or any other document and supersedes any prior written or oral communication relating to the same subject. Any amendment or modifications to this Agreement shall not be binding upon either party unless agreed to in writing by an authorized representative of each party.
15. This Contract will be deemed voidable, even after execution, if it is determined by Otis that performance of the services and/or engagement in the contractual relationship/transaction will violate, or is otherwise restricted by, any and all laws, regulations and/or orders, including sanctions laws, that are applicable to Otis or otherwise apply to Otis' operations.
16. By accepting delivery of parts incorporating software, you agree that the transaction is not a sale of such software but merely a license to use such software solely for operating the unit(s) for which the part was provided, not to copy or let others copy such software for any purpose whatsoever, to keep such software in confidence as a trade secret, and not to transfer possession of such part to others except as a part of a transfer of ownership of the equipment in which such part is installed, provided that you inform us in writing about such ownership transfer and the transferee agrees in writing to abide by the above license terms prior to any such transfer.
17. Our work shall not include the identification, detection, abatement, encapsulation or removal of asbestos, polychlorinated biphenyl (PCB), or products or materials containing asbestos, PCBs, oil, or any hazardous substances in soil, water or elsewhere. In the event we encounter any such product or materials in the course of performing work, we shall have the right to discontinue our work and remove our employees from the project until you have taken the appropriate action to abate, encapsulate or remove such products or materials, and any hazards connected therewith, or until it is determined that no hazard exists (as the case may require). We shall receive an extension of time to complete the work hereunder and compensation for delays encountered as a result of such situation.
18. The disposal of the cylinders, underground piping, and any and all related materials shall be the sole responsibility of the Owner. Additionally, the Owner is solely responsible for the removal and/or disposal of oil, contaminated soil, water and or other by-products. In the event that any contaminated soil or groundwater is discovered during the performance of the work, Otis will notify the Owner in writing. During the time the Owner is performing any such removal or disposal, Otis is excused from its performance under this Agreement, and Owner will compensate Otis for any and all costs attributable to any such delay. Furthermore, Owner will indemnify and hold harmless Otis from any cost, liability or expense imposed upon, or incurred by, Otis under any state, provincial, federal or other law because of or arising out of any contamination, alleged contamination of the property (including reporting requirements with regard to same, if applicable), or removal or disposal of oil, contaminated soil or water or otherwise.

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Compost Screening

Project ID #: _____ CIP ID #: DPS-1

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 01/16/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Screening of composted natural material into black dirt.

Project Need: Provide a brief explanation of why the project is necessary.

We need to screen and partially remove topsoil each year as a condition of our EGLE permit. We are behind in our material screening. Topsoil is approximately $20-$30 per yard and is more cost effective to screen the product than it is to purchase.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 20,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

Parks & Recreation

Parks & Recreation		2025	2026	2027	2028	2029	2030	Total
P-1	Fish Hatchery Restrooms	450,000						450,000
P-2	Fish Hatchery Softball Field		95,000					95,000
P-3	Fish Hatchery Walking Path Reconstruction			45,000				45,000
P-4	Tangle Town Renovation	650,800						650,800
P-5	Tyden Park Pavillion Restoration		20,000					20,000
P-6	Tyden Park Riverwalk Trail				65,000			65,000
P-7	Tyden Park Drive and Parking			75,000				75,000
P-8	Sweezy's Pond Improvements	10,000						10,000
P-9	Non-motorized Trail / McNair St					100,000		100,000
P-10	Bob King Park "tot lot"		60,000					60,000
P-11	River Access Improvements						25,000	25,000
P-12	Hammond Hills Green Restroom Construction			80,000				80,000
P-13	Hammond Hills Parking Lot Expansion				300,000			300,000
P-14	Pickleball at Bob King Park	15,000						15,000
Total Parks & Recreation		1,125,800	175,000	200,000	365,000	100,000	25,000	1,990,800

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Fish Hatchery Restroom Replacement

Project ID #: _____ CIP ID #: P-1

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 02/22/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Demo existing and construct new primary restrooms at Fish Hatchery Park.

Project Need: Provide a brief explanation of why the project is necessary.

Restrooms were constructed with a DNR grant in 1985. They are dated and are very difficult to maneuver due to the shape of the building. Accessible restrooms are needed.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes - 5 Year Park and Rec Master Plan

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 450,000.00

Please check one of the following for cost basis:

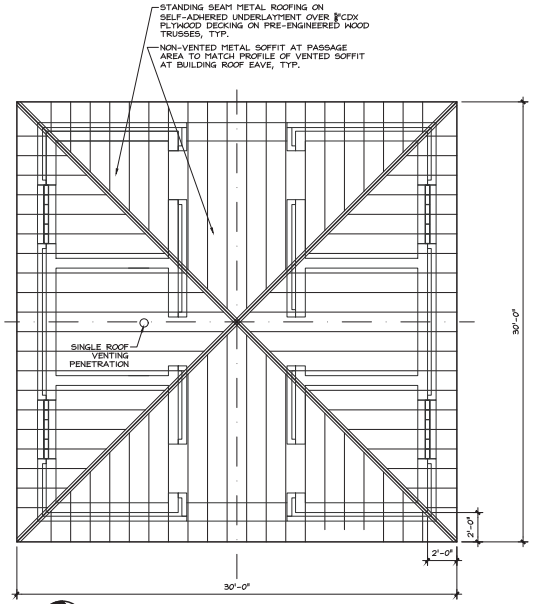
- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

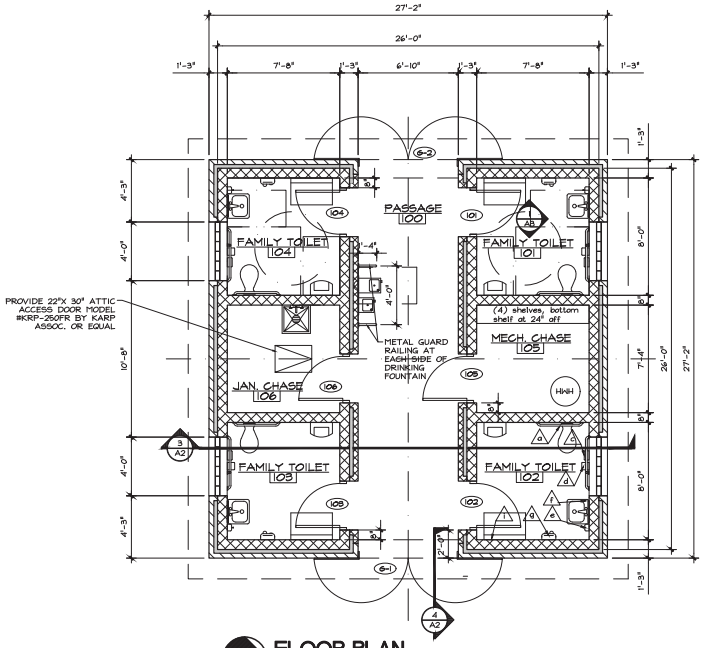
ARPA Funds
General Fund

List of Attachments (quotes, photos, etc.):

Photos
Possible Floor Plans



ROOF PLAN
SCALE: 1/4" = 1'-0"



FLOOR PLAN
SCALE: 1/4" = 1'-0"

ROOM FINISH SCHEDULE

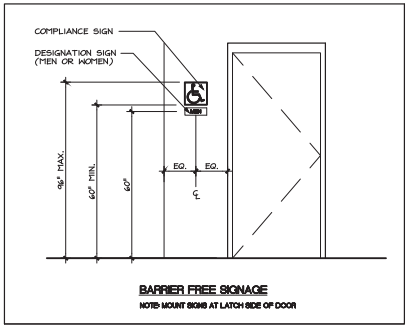
NO.	ROOM	FLOOR	BASE	WALLS	CEILING	HT.	REMARKS
100	PASSAGE - OPEN	CONCRETE	-	CMU, PAINT 4"	1X6 CEDAR, PAINT	9'-6"	PAINT 4" CMU
101	TOILET	EPOXY FLOORING	4"EPOXY COVE	CMU, PAINT	GYP. BD.#, PAINT	9'-6"	-
102	TOILET	EPOXY FLOORING	4"EPOXY COVE	CMU, PAINT	GYP. BD.#, PAINT	9'-6"	
103	TOILET	EPOXY FLOORING	4"EPOXY COVE	CMU, PAINT	GYP. BD.#, PAINT	9'-6"	
104	TOILET	EPOXY FLOORING	4"EPOXY COVE	CMU, PAINT	GYP. BD.#, PAINT	9'-6"	
105	MECHANICAL	SEALED CONC.	4"VINYL BASE	CMU, PAINT	GYP. BD.#, PAINT	9'-6"	
106	JANITORIAL	SEALED CONC.	4"VINYL BASE	CMU, PAINT	GYP. BD.#, PAINT	9'-6"	

NOTE#: HIGH-IMPACT GYPSUM BOARD CEILING ATTACHED TO BOTTOM OF TRUSSES

ACCESSORY SCHEDULE

a	**GRAB BARS:** HORIZONTAL BARS: TOP AT 33-36" AFF; VERTICAL BAR: CENTER LINE AT 39-41" AFF FROM BACK WALL & BOTTOM AT 39-41" AFF.	e	**SOAP DISPENSER:** MOUNTING HEIGHT: 40" MAX.
b	**TOILET TISSUE DISPENSER:** MOUNTING HEIGHT = 19" AFF (MIN.) 48" AFF MAX. TO CENTERLINE OF DISPENSER. REAR EDGE OF DISPENSER TO BE 8" IN FRONT OF WATER CLOSET (DISPENSER MUST BE 1 1/2" (MIN.) BELOW THE GRAB BAR.)	f	**MIRROR:** 24" WIDE x 36" HIGH MOUNTING HEIGHT: 38" AFF (MAX.)
		g	**HAND DRYER:** MOUNTING HEIGHT: 40" MAX. TO CONTROL
c	**SANITARY NAPKIN DISPOSAL:** MOUNTING HEIGHT = 34" AFF (TO TOP OF UNIT) B.F. MOUNTING HEIGHT = 27" AFF (TO TOP OF UNIT)	h	**BARRIER FREE SIGNAGE:** DESIGNATION SIGN: 60" A.F.F. COMPLIANCE SIGN: 60"-96" A.F.F. SEE DETAIL THIS SHEET
d	**COAT HOOK:** MOUNTING HEIGHT: 54" AFF	i	**BABY CHANGING STATION:** MOUNTING HEIGHT: 34" AFF TO SHELF

NOTE: INSTALL ALL TOILET FIXTURES AND ACCESSORIES IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF MICHIGAN BUILDING CODE (MBC 2012) AND ADOPTED ICC A117.1 - 2009 STANDARDS FOR BARRIER FREE ACCESSIBILITY STANDARDS.

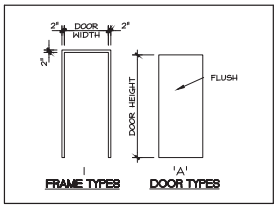


BARRIER FREE SIGNAGE
NOTE: MOUNT SIGNS AT LATCH SIDE OF DOOR

DOOR SCHEDULE

NO.	SIZE	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MAT.	FRAME FINISH	LABEL	HDW.	REMARKS
101	3'-0" X 7'-2" X 1-3/4"	A	H.M.	PAINT	I	H.M.	PAINT	-	1	
102	3'-0" X 7'-2" X 1-3/4"	A	H.M.	PAINT	I	H.M.	PAINT	-	1	
103	3'-0" X 7'-2" X 1-3/4"	A	H.M.	PAINT	I	H.M.	PAINT	-	1	
104	3'-0" X 7'-2" X 1-3/4"	A	H.M.	PAINT	I	H.M.	PAINT	-	1	
105	3'-0" X 7'-2" X 1-3/4"	A	H.M.	PAINT	I	H.M.	PAINT	-	2	
106	3'-0" X 7'-2" X 1-3/4"	A	H.M.	PAINT	I	H.M.	PAINT	-	3	

NOTE: USE HARDWARE SET 3 FOR STEEL GATES



FRAME TYPES DOOR TYPES

WALL TYPES

EXTERIOR 8" CMU WALL w/AIR BARRIER,2" RIGID INSULATION, 1" AIR SPACE AND FACE BRICK VENEER (OR 4" CMU AT PASSAGE)

INTERIOR 8" CMU WALL

Page 31

G:_Library\tblock\dwgnamestamp24x36.dwg - AUG. 21, 2019 @ 8:30 am

BEECHWOOD PARK PHASE 1 IMPROVEMENTS
Holland Charter Township, MI

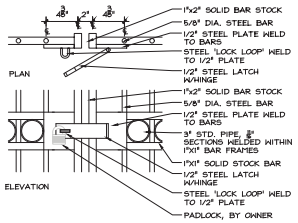
MCSA GROUP, INC.
Landscape Architecture • Park & Recreation Planning • Architecture
Downtown Planning • Interior Design • Sports Facility Planning
529 Greenwood Avenue S.E. • East Grand Rapids, MI 49506
616-451-3346 • FAX: 616-451-1935 • EMAIL: tas@mcsagroup.com

SCALE: as shown

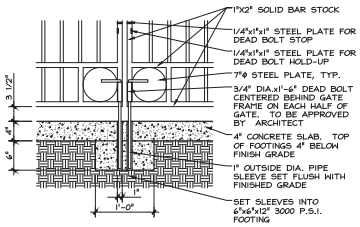
Floor/ Roof Plans, Schedules

DATE 08.30.2021
REVISIONS

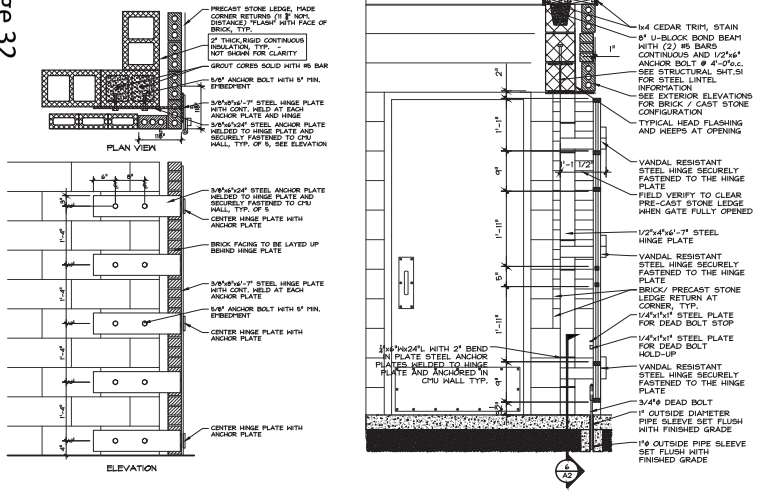
PROJECT NO. 2120
SHEET NO. A1



5 A2 LATCH DETAIL
SCALE: 1 1/2" = 1'-0"

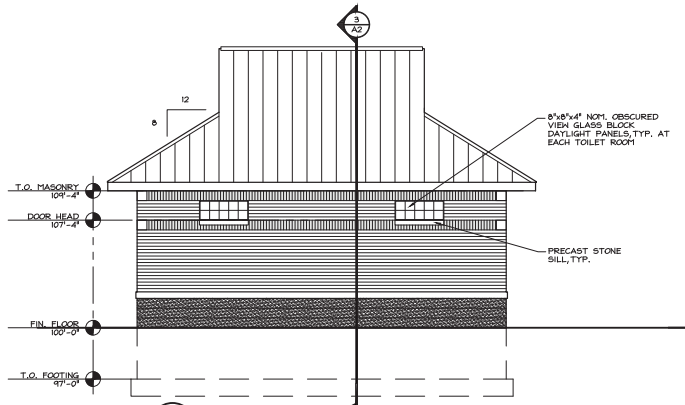


6 A2 DEAD BOLT DETAIL
SCALE: 1" = 1'-0"

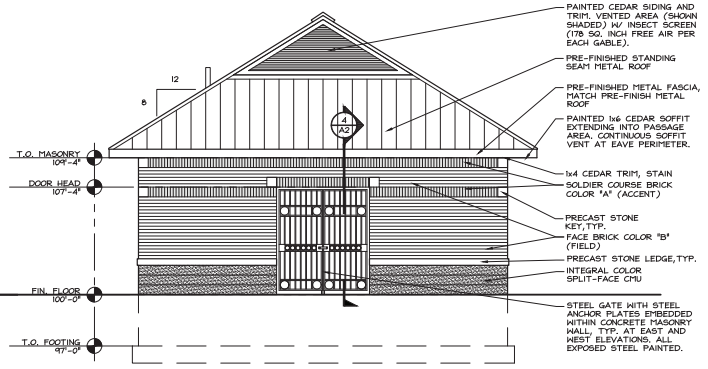


7 A2 GATE ANCHORE PLATES DETAIL
SCALE: 1" = 1'-0"

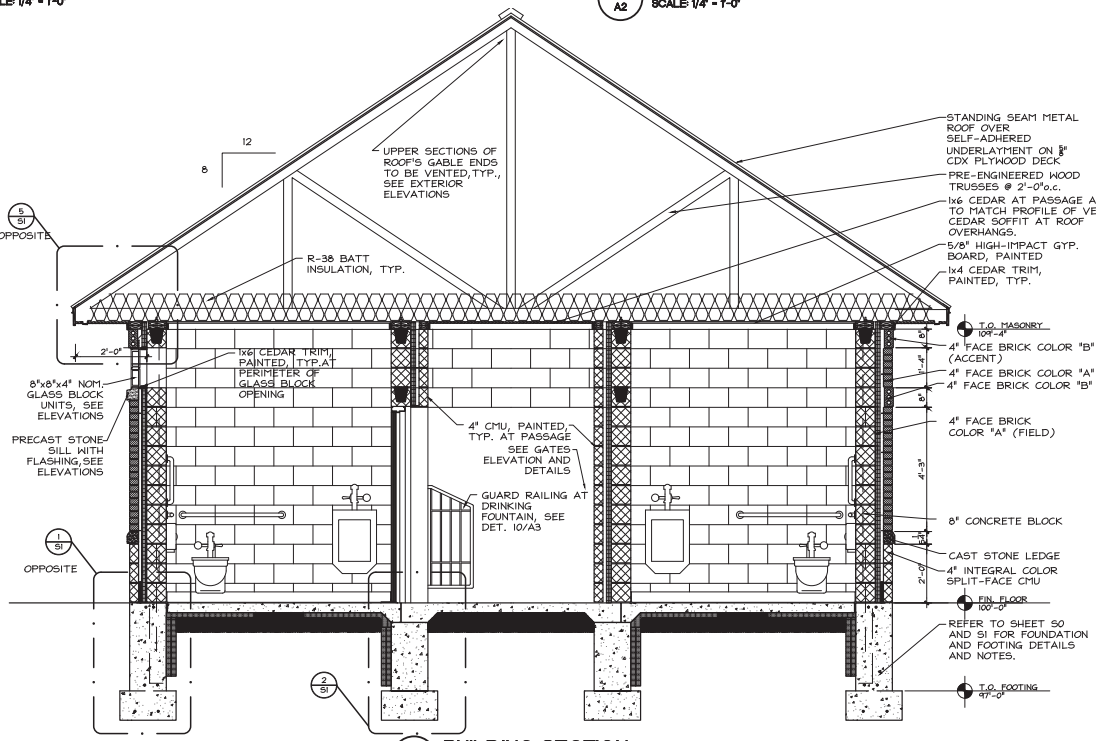
4 A2 WALL SECTION AT GATE
SCALE: 3/4" = 1'-0"



1 A2 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2 A2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



3 A2 BUILDING SECTION
SCALE: 1/2" = 1'-0"

BEECHWOOD PARK PHASE 1 IMPROVEMENTS
Holland Charter Township, MI

MCSA GROUP, INC.
Landscape Architecture ● Park & Recreation Planning ● Architecture
Downtown Planning ● Interior Design ● Sports Facility Planning
529 Greenwood Avenue S.E. ● East Grand Rapids, MI 49506
616-451-2346 ● FAX: 616-451-1935 ● EMAIL: tas@mcsagroup.com

SCALE: as shown

Exterior Elevations, Sections

DATE 08.30.2021
REVISIONS

PROJECT NO. 2120
SHEET NO. A2

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Fish Hatchery Softball Field

Project ID #: _____ CIP ID #: P-2

Department: DPS - Parks Anticipated Start Date: 07/2025

Date Prepared: 02/22/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Update the outfield fencing and backstop. Raise the right and center fields 8-12 inches so that they no longer hold water.

Project Need: Provide a brief explanation of why the project is necessary.

Fencing is dated and the fields are holding water. The softball field was constructed in the mid-1980s.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5 Year Park and Rec Master Plan

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 95,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Recreation Passport Grant

List of Attachments (quotes, photos, etc.):

D-K FENCE
BATTLE CREEK
965-3991

1227 W. Dickman RD. Battle Creek, MI 49037
PHONE: (269) 965-3991 FAX: (269)965-8627

February 3, 2023

City of Hastings
201 E. State St.
Hastings, MI 49058

Attn: Rob Neil
rneil@hastingsmi.org
269.838.8395

Re: **Fish Hatchery Park Ballfield**

Please consider this a formal quote to provide the materials, labor, and supervision necessary to complete the fence and backstop replacement at Fish Hatchery Park. Please find the items included in this quote, below:

Item	Description	Cost
Chain Link Fences and Gates	• To remove and replace approx. 980 LF of 6' tall, aluminized chain link fence with (2) 12' wide double swing gates. New fence includes new yellow safety top cap. Terminal posts to be 2-1/2" SS40 pipe. Line posts to be 2" SS40 Pipe. Top rail to be 1-5/8" SS20 pipe. Fence fabric to be 9GA. Bottom tension wire to be 7GA steel wire. • To remove (1) backstop. • To install (1) 20'x30'x20' backstop with a finished height of 20' above grade. Backstop to be 20' vertical, with no overhang.	**$85,020.00**

- **To install an additional 10' tall #36 net to the top of the backstop for a finished height of 30', Add: $4,895.00**
- **Turf restoration by others**

Thank you for considering D-K Fence Company for your project. If you have any questions regarding this or future projects, please do not hesitate to contact me.

Regards,

Brent Hartwell
Estimator

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Fish Hatchery Park Walking Path Reconstruction

Project ID #: _____ CIP ID #: P-3

Department: DPS - Parks Anticipated Start Date: 07/2026

Date Prepared: 01/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Repave the existing walking path throughout the park.

Project Need: Provide a brief explanation of why the project is necessary.

The walking path is significantly deteriorated in many areas. An upgraded path would improve safety and park accessibility.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5 Year Park and Recreation Master Plan

Does the project share space or overlap with other CIP projects? Please describe.

Yes, potential future exercise path

Project Cost: $ 45,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Potential Grant Funds

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: TangleTown Reconstruction

Project ID #: _____ CIP ID #: P-4

Department: DPS - Parks Anticipated Start Date: 07/2024

Date Prepared: 02/22/2024

Project Description: Provide a brief physical description of the project. Please be specific.

TangleTown is located within Bob King Park. This project includes the demolition and reconstruction of the play structure.

Project Need: Provide a brief explanation of why the project is necessary.

Tangle Town is well loved, but is of wood construction and was built in 1997. Most similar structure last approximately 20-25 years. The structure has become more difficult to maintain and is the subject of increasing complaints.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5 Year Park & Rec Master Plan

Does the project share space or overlap with other CIP projects? Please describe.

Yes, other improvements to Bob King Park.

Project Cost: $ 650,800.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

MDNR Recreation Passport Grant
Public Spaces Community Places
General Fund
Community Donations

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Tyden Park Pavillion Restoration

Project ID #: _____ CIP ID #: P-5

Department: DPS - Parks Anticipated Start Date: 07/2025

Date Prepared: 01/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Painting and restroom improvements, stain cedar beams

Project Need: Provide a brief explanation of why the project is necessary.

Minor improvements need to be made to the facility including painting, restroom improvements, and some exterior work.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5 Year Master Park & Rec Plan

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 20,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Tyden Park Riverwalk Trail

Project ID #: _____ CIP ID #: P-6

Department: DPS - Parks Anticipated Start Date: 07/2027

Date Prepared: 01/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Mill and repave trail around Tyden Park.

Project Need: Provide a brief explanation of why the project is necessary.

The trail has many cracks and raised areas due to tree roots. Paving this trail would improve safety and user access.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5 Year Park and Rec Master Plan

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 65,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Tyden Park Parking Lot and Access Drive

Project ID #: _____ CIP ID #: P-7

Department: DPS - Parks Anticipated Start Date: 07/2026

Date Prepared: 01/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Driveway and parking lot at Tyden Park needs to be milled and resurfaced. Parking area may also be somewhat expanded to eliminate vehicles from parking on the lawn.

Project Need: Provide a brief explanation of why the project is necessary.

The drive and parking lot have large cracks and holes. The existing pavement is only 1.5 - 2 inches thick.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5 Year Park and Rec Master Plan

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 75,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Sweezy's Pond Improvement

Project ID #: 11 CIP ID #: P8

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 02/22/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Preliminary engineering review of what would be necessary to achieve an improved dam or dam removal at Sweezy's Pond.

Project Need: Provide a brief explanation of why the project is necessary.

Currently, Sweezy's Pond is neither a pond nor functional wetland. The water is to shallow for a proper freshwater pond and the depth is too deep for a healthy wetland habitat. There are many invasive vegetative species that have inundated the pond that make it have poor aesthetics and out competes natural wetland vegetation for the area.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 10,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

DNR park or wetland grants
General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Non-Motorized Trail Along Undeveloped McNair Street Right of Way

Project ID #: _____ CIP ID #: P-9

Department: Public Services Anticipated Start Date: 07/2028

Date Prepared: 02/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Place an approximately 1,300 feet, 8 foot wide paved trail along an existing street ROW which has no street. The path would be adjacent to an existing farm field that will not be developed. The path would start at Green Street (Across from Pennock Hospital) and go south to Clinton Street. There would also be connector trails off of Walnut Street, and Madison Street. A four foot tall chain link fence would also be needed along the property lines on along the ROW lines.

Project Need: Provide a brief explanation of why the project is necessary.

This trail will help connect Fish Hatchery Park with Sweezy Pond with non-motorized traffic. This will also connect Cook Additions to Fish Hatchery Park, M-37/43, and Downtown. Would help expose trail users to wide open space inside the city limits and not by a busy road.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5-Year Park and Recreation Plan

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 100,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Bob King Park small children's play area

Project ID #: _____ CIP ID #: P-10

Department: DPS - Parks Anticipated Start Date: 07/2025

Date Prepared: 01/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of play area for small children

Project Need: Provide a brief explanation of why the project is necessary.

Current equipment is dated and ending its useful life

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 5 Year Master Park and Recreation Plan

Does the project share space or overlap with other CIP projects? Please describe.

Yes, other improvements planned to Bob King Park.

Project Cost: $ 60,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
MDNR Passport Recreation Grant

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: River Access Points Improvements

Project ID #: _____ CIP ID #: P11

Department: Parks Anticipated Start Date: 07/2029

Date Prepared: 02/22/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Improve water access at Bliss Park and Tyden Park to make it easier for users to enter/exit the river for recreation purposes.

Project Need: Provide a brief explanation of why the project is necessary.

Many visitors use the water access points

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 25,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Potential grants

List of Attachments (quotes, photos, etc.):

none

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: "Green" toilets at Hammond Hills

Project ID #: _____ CIP ID #: P-12

Department: DPS - Parks Anticipated Start Date: 07/2026

Date Prepared: 01/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Addition of "green" toilets or pit toilets at Hammond Hills Park.

Project Need: Provide a brief explanation of why the project is necessary.

Currently only a porta-john is used at Hammond Hills. This park is not located in an area where other public restrooms are accessible.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 80,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
MDNR Rec Passport Grant

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Hammond Hill Parking Lot Expansion

Project ID #: _____ CIP ID #: P-14

Department: Parks Anticipated Start Date: 07/2028

Date Prepared: 02/12/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Expansion of parking lot at Hammond Hill to accommodate numerous events and tournaments.

Project Need: Provide a brief explanation of why the project is necessary.

The existing lot is inadequate for the disc golf tournaments. Lot will need to be expanded to bid for larger tournaments and championships. The lot is also used by hikers and mountain bikers.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Master Park and Recreation Plan

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 300,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Donations

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Pickleball/Resurface courts at Bob King Park

Project ID #: _____ CIP ID #: _____

Department: Parks Anticipated Start Date: 07/2025

Date Prepared: 02/22/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Resurface existing tennis courts for use as pickleball and/or tennis courts.

Project Need: Provide a brief explanation of why the project is necessary.

Existing court needs some maintenance. There is a high demand for pickleball in the community.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes,

Does the project share space or overlap with other CIP projects? Please describe.

yes - other projects are in Bob King park. This project could be done together or independently.

Project Cost: $ 15,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

LIBRARY

Library		2025	2026	2027	2028	2029	2030	Total
L-1	Library Lower Roof Replacement	10,500						10,500
L-2	Library Upper Roof Replacement				180,000			180,000
Total Library		10,500	0	0	180,000	0	0	190,500

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: New Lower Library Roofs

Project ID #: _____ CIP ID #: L-1

Department: Library Anticipated Start Date: 07/2024

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

The project would replace the lower roofs of the Library. This would include the roofs over both public entrances and the drive thru window. The work would include: removing the the single ply membrane; installing 1/2" recovery board; installing fully adhered 60 ML EPDM rubber; flash all drains, scuppers, parapet walls, pipes and units with EPDM rubber; installing painted galvanized drip edge; and installing E curbs on structural braces.

Project Need: Provide a brief explanation of why the project is necessary.

The roofs were inspected fall of 2023. The inspector told us that we could do a repair that would cost about $3,500 and last 3-4 years or we could replace the roof at a cost of $10,500. We've had a leak that we believe is happening at the roof over the parking lot entrance. We've been unable to find its exact location. We want to get the work done on these roofs to be sure the leak is taken care of and save the $3,500.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 10,500.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Library Fund balance

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Library Upper Roofs Replacement

Project ID #: _____ CIP ID #: L-2

Department: Library Anticipated Start Date: 07/2027

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

The project would replace the main roof of the Library. The work would include: removing the the single ply membrane; installing 1/2" recovery board; installing fully adhered 60 ML EPDM rubber; flashing all drains, scuppers, parapet walls, pipes and units with EPDM rubber; and installing painted galvanized drip edge;

Project Need: Provide a brief explanation of why the project is necessary.

The roofs were inspected fall of 2023. Areas were found that need repair and the inspector from Quality Roofing estimated that with those repairs the roofs would last about four years. It seems wise to get the work done before we start having problems.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 180,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

The majority of the funds would be taken from the Library's fund balance. We would seek grants and possibly donations.

List of Attachments (quotes, photos, etc.):

Estimate

Date
12/6/2023

Estimate #
4430

Quality Roofing & Construction INC.
FAX 269-945-0622
P.O. Box 172
Hastings, MI 49058

Hastings Public Library
State St
Hastings Mi 49058

WE PROPOSE TO FURNISH ALL LABOR, MATERIALS, EQUIPTMENT AND INSURANCES TO COMPLETE THE FOLLOWING PROJECT AS FOLLOWS;

BUDGET COSTS FOR ROOF REPLACEMENT

UPPER ROOF;
SCOPE OF WORK
REMOVE EXISTING SINGLE PLY MEMBRANE
INSTALL 1/2" RECOVERY BOARD
INSTALL FULLY ADHERED 60 MIL EPDM RUBBER
FLASH ALL DRAIN'S, SCUPPER'S, PARAPET WALL'S, PIPE'S AND UNIT'S WITH EPDM RUBBER
INSTALL PAINTED GALVANIZED DRIP EDGE

$150,000.00

LOWER ROOFS;
SCOPE OF WORK
REMOVE EXISTING SINGLE PLY MEMBRANE
INSTALL 1/2" RECOVERY BOARD
INSTALL FULLY ADHERED 60 MIL EPDM RUBBER
FLASH ALL DRAIN'S, SCUPPER'S, PARAPET WALL'S, PIPE'S AND UNIT'S WITH EPDM RUBBER
INSTALL PAINTED GALVANIZED DRIP EDGE
INSTALL E CURBS ON STRUCTURAL BRACES

$10,500.00

NOTE ; ESTIMATE IS FOR BUDGET PURPOSES ONLY. ACTUAL COST TO BE DETERMINED AT THE TIME ON INSTALLATION

Signature _____

Total $160,500.00

WATER/SEWER

CONTINUED ON NEXT PAGE

Water/Sewer		2025	2026	2027	2028	2029	2030	Total
W-1	Chlorinator 2 Upgrade	40,000						40,000
W-2	Water Reliability Study					25,000		25,000
W-3	Elevated Storage Tank Inspections			40,000				40,000
W-4	Water Plant High Service Pumps - Pull & Inspect	35,000		35,000		35,000		105,000
W-5	Well #1 - Pull and Inspect Pump	35,000						35,000
W-6	Water Asset Management Plan Update	15,000					15,000	30,000
W-7	Generator Enclosure	50,000						50,000
W-8	Filter Tank Painting	10,000						10,000
W-9	Iron Filter Media Inspection and Replacement						300,000	300,000
W-10	Ground Storage Fill Flow Valve Control		20,000					20,000
SS-2	Final Clarifier #2 - rotating mechanism replacement	350,000						350,000
SS-1	Final Clarifier #1 - rotating mechanism replacement				400,000			400,000
SS-3	Scum Collector/Separator						250,000	250,000
SS-4	4 New LDO Probes	40,000						40,000
W-11	Construct new elevated storage tank						3,000,000	3,000,000
SS-12	Air Scrubber Media Replacement		15,000		15,000		15,000	45,000
SS-13	North Primary Clarifier Mechanism Replacement					400,000		400,000
SS-17	Additional Blower				175,000			175,000
SS-18	Railroad St Lift Station Replacement						524,000	524,000

WATER/SEWER CONTINUED

Water/Sewer		2025	2026	2027	2028	2029	2030	Total
WS-33	North and Broadway Water and Sewer Improvements			6,666,805				6,666,805
WS-19	Green/Market St. Sanitary Sewer Replacement (Broadway to Fish Hatchery Park/State St to Green St)	7,302,060						7,302,060
SS-20	Sanitary Sewer Televising Program			50,000	50,000	50,000	50,000	200,000
W-21	Marshall St. Water Main Replacement & LSLR Project (Jefferson to West End)					1,785,070		1,785,070
W-22	Clinton St. (east)/Dibble Water Main Replacement/Transmission Improvements (Hanover/M37 to State St)		4,790,991					4,790,991
W-23	Clinton St. (west) Water Main & LSL Replacement Project (Michigan to West End), and S Benton St. Sanitary & Storm Sewer Replacement (Clinton to Walnut)				2,681,239			2,681,239
W-24	Hanover Improvements			549,975				549,975
SS-24	Apple Street Sanitary Trunk Sewer Replacement			4,609,744				4,609,744
W-25	Lead Service Line Replacements	350,000	0	350,000	88,750	177,500	357,000	1,323,250
SS-26	Mill Street Sanitary Replacement (Michigan to Jefferson)			175,000				175,000
SS-27	E. Madison Sanitary Replacement						450,000	450,000
SS-28	Smoke Testing for Sanitary Sewer I&I				65,000			65,000
WS-29	Water Meter Replacement Program	200,000	200,000					400,000
SS-30	Sanitary Sewer Spot Repairs			50,000	50,000			100,000
SS-31	sanitary sewer root treatment	25,000						25,000
SS-32	Wastewater Treatment Plant Aerator Tank Access Safety Improvement	20,000						20,000
Total Water/Sewer		8,472,060	5,025,991	12,526,524	3,524,989	2,472,570	4,961,000	36,983,134

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Chlorinator #2 Upgrade

Project ID #: _____ CIP ID #: WS-1

Department: Water Anticipated Start Date: 07/2024

Date Prepared: 02/07/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Install electric solenoid valve and logic to allow chlorination of well water prior to aeration and allow the feeding of chlorine to resevoir suction line to boost chlorine residuals at the resevoir before pumping to the system.

Project Need: Provide a brief explanation of why the project is necessary.

This will allow us to get a better iron removal and reduce the smell of rotten egg/sulfur (hydrogen sulfide gas). We would also be able to boost chlorine levels from the ground storage resevoir as needed to ensure safe drinking water with effective levels of chlorine.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Previous CIP

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 40,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Water System Reliability Study

Project ID #: _____ CIP ID #: WS-2

Department: Water Anticipated Start Date: 07/2028

Date Prepared: 01/18/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Update to Water Reliability Study as required.

Project Need: Provide a brief explanation of why the project is necessary.

Required by EGLE every 5 years.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 25,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Elevated Storage Tank Inspections

Project ID #: _____ CIP ID #: W-3

Department: Water Anticipated Start Date: 07/2026

Date Prepared: 01/18/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Routine inspection of elevated storage tanks.

Project Need: Provide a brief explanation of why the project is necessary.

Inspections are required by EGLE every five years.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

Yes, other regular equipment service and maintenance timelines.

Project Cost: $ 40,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Water Plant High Service Pumps - Routine Maintenance

Project ID #: _____ CIP ID #: W-4

Department: Water Anticipated Start Date: 07/2024

Date Prepared: 03/06/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Routine pull and inspect - different pump every other year. This will cover the cost to pull and inspect the pump. The well company will then provide a quote on any necessary repairs that are needed.

Project Need: Provide a brief explanation of why the project is necessary.

We have scheduled routine maintenance on each of our pumps based on historical data. This is the most cost effective way maintain the well and the pump.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Reliability study and asset management plan

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 35,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Routine inspection - Well #1 Pump

Project ID #: _____ CIP ID #: W-5

Department: Water Anticipated Start Date: 07/2024

Date Prepared: 01/30/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Well 1 pump - routine pull and inspect. This will cover the cost to pull and inspect the well. The well company will then provide a quote on any necessary repairs that are needed (if any).

Project Need: Provide a brief explanation of why the project is necessary.

We have scheduled routine maintenance on each of our pumps based on historical data. This is the most cost effective way maintain the well and the pump.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Reliability study and asset management plan

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 35,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Water Asset Management Plan (WAMP)

Project ID #: _____ CIP ID #: W-6

Department: DPS Anticipated Start Date: 09/2025

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

The WAMP is a plan that identifies the desired level of service at the lowest life cycle cost for rehabilitation, repairing, or replacing the assets associated with the waterworks system.

Project Need: Provide a brief explanation of why the project is necessary.

Required by State of Michigan (EGLE) last updated in 2019-2020.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

Water reliability study.

Project Cost: $ 15,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water and Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Water Plant Generator Enclosure

Project ID #: _____ CIP ID #: W-7

Department: Public Services Anticipated Start Date: 07/2024

Date Prepared: 03/04/2024

Project Description: Provide a brief physical description of the project. Please be specific.

To place wall or barrier partially or fully around the water treatment plant's generator. The wall will have to be 12' high either mason block, poured concrete, precast concrete, or plastic sound panels. Poured concrete foundation with steel reinforcement will also be required.

Project Need: Provide a brief explanation of why the project is necessary.

The generator causes sound and exhaust complaints from a neighboring property owner. This project will allow us to be a better neighbor while using the generator.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 50,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water and Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Water Plant Pressure Filter Tank Painting

Project ID #: _____ CIP ID #: W-8

Department: Water Anticipated Start Date: 07/2024

Date Prepared: 02/01/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Clean and paint the exterioir surface of both pressure filters at the water plant.

Project Need: Provide a brief explanation of why the project is necessary.

Both pressure tanks are showing rust and paint flaking. Refinishing the tanks will prolong the life of the tanks. This will also maintain a clean, sanitary look for the water plant.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

no

Does the project share space or overlap with other CIP projects? Please describe.

no

Project Cost: $ 10,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Iron Filter Media Replacement and Inspection

Project ID #: _____ CIP ID #: W-9

Department: Water Anticipated Start Date: 07/2029

Date Prepared: 01/18/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Removal of sand and gravel from inside the filters. Inspect inside of filter and repair any deficiencies. Install new media and return to service.

Project Need: Provide a brief explanation of why the project is necessary.

The filters and the media is 30 years old and the filters have never been inspected internally. The media is tested every 5 years and remains in good condition.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 300,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Ground Storage Fill Flow Control Valve

Project ID #: _____ CIP ID #: W-10

Department: Water Anticipated Start Date: 07/2025

Date Prepared: 01/17/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Install a flow control valve on the ground storage reservoir fill line.

Project Need: Provide a brief explanation of why the project is necessary.

Allow us to regulate the fill flow for the ground storage reservoir. The old valve is no longer functioning and we are regulating through a ball valve which creates a turbulence in the fill flow line.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 20,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Final Clarifier 2 Rotating Mechanism

Project ID #: _____ CIP ID #: SS-2

Department: WWTF Anticipated Start Date: 07/2024

Date Prepared: 02/21/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Removal of the entire final clarifier 2 mechanical drive, support structure and appurtenances. Replace with new units.

Project Need: Provide a brief explanation of why the project is necessary.

This item is over fifty years old, has recently had a structural failure along with severe deterioration over the years of the bridge decking and the submerged portion of the mechanical structure. The manufacturer of the unit is unknown and due to it's age as well, availability of major replacement components is seriously in doubt. This unit also lacks the features of present day units to protect it from certain types of mechanical malfunctions and subsequent damage.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 350,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Final Clarifier 1 Rotating Mechanism

Project ID #: _____ CIP ID #: SS-1

Department: WWTF Anticipated Start Date: 07/2027

Date Prepared: 02/22/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Removal of the entire final clarifier 1 mechanical drive, support structure and appurtenances. Replace with new units.

Project Need: Provide a brief explanation of why the project is necessary.

This item is of the same vintage, design and construction as final clarifier 2 which had a structural failure. The manufacturer is unknown and shows substantial deterioration of the bridge decking in the same manner as final clarifier 2. There is a high potential for critical failure due to age and lacks the features of present day units to protect it from certain types of mechanical malfunctions and subsequent damage as well.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 400,000.00

Please check one of the following for cost basis:

- ☒ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: WWTF Scum Collector/Separator

Project ID #: _____ CIP ID #: SS-3

Department: WWTF Anticipated Start Date: 07/2029

Date Prepared: 02/14/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Installation of a scum collector/separator to remove scum from the facility treatment process.

Project Need: Provide a brief explanation of why the project is necessary.

Currently the scum skimmed from the primary and final clarifier's is collected in scum wells/pits and pumped to the gravity thickener where it is then skimmed into a shared scum well/pit at the final clarifier's and pumped to the gravity thickener. This circuitous (merry-go-round) process is continuous with the hope the scum eventually breaks down, which is an extremely slow and incomplete process. It needs to be completely removed from the treatment process stream.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 250,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

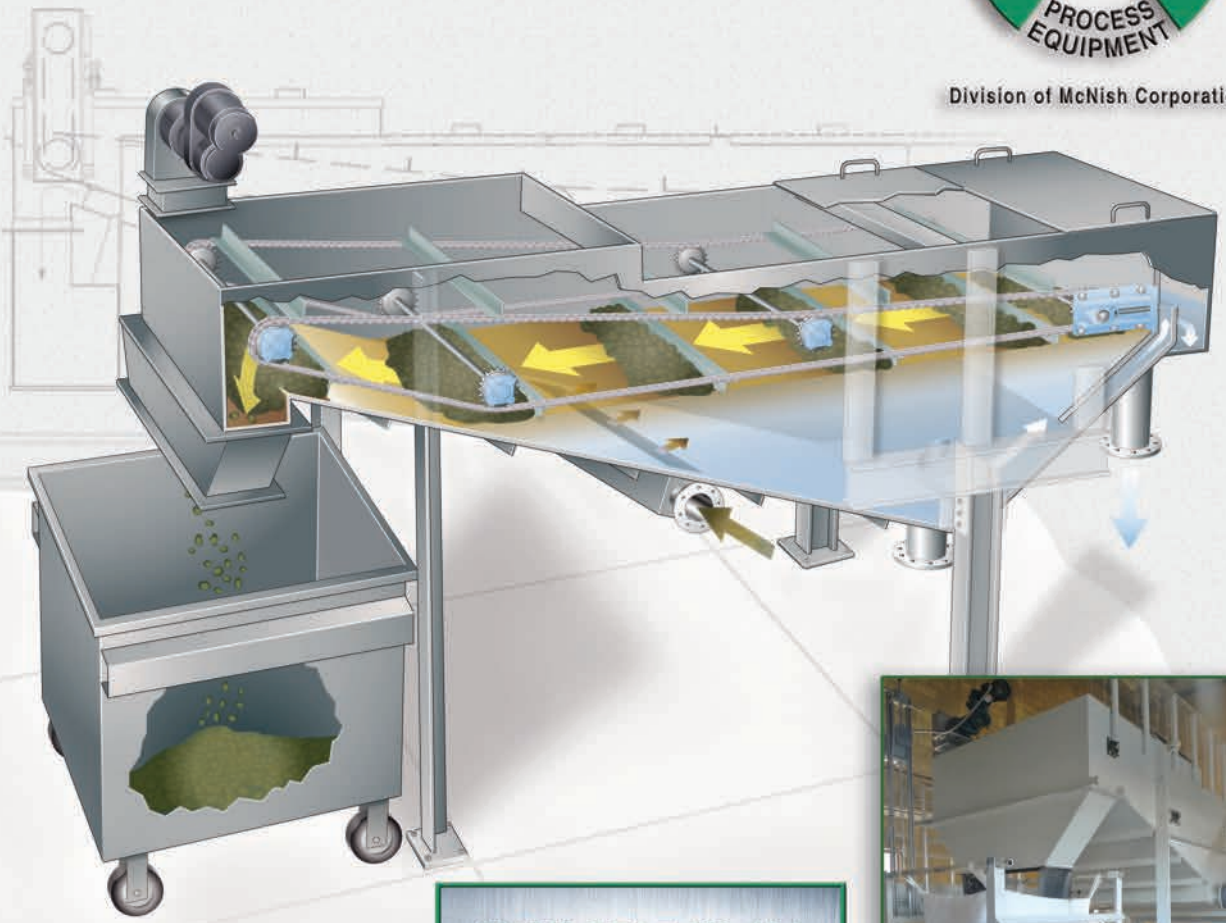
List of Attachments (quotes, photos, etc.):

Walker process unit for illustration purpose only.

Scum Separator

WALKER PROCESS EQUIPMENT

Division of McNish Corporation



AVAILABLE IN ALL STAINLESS-STEEL CONSTRUCTION

Dewater Clarifier Skimmings with a Walker Process Scum Separator

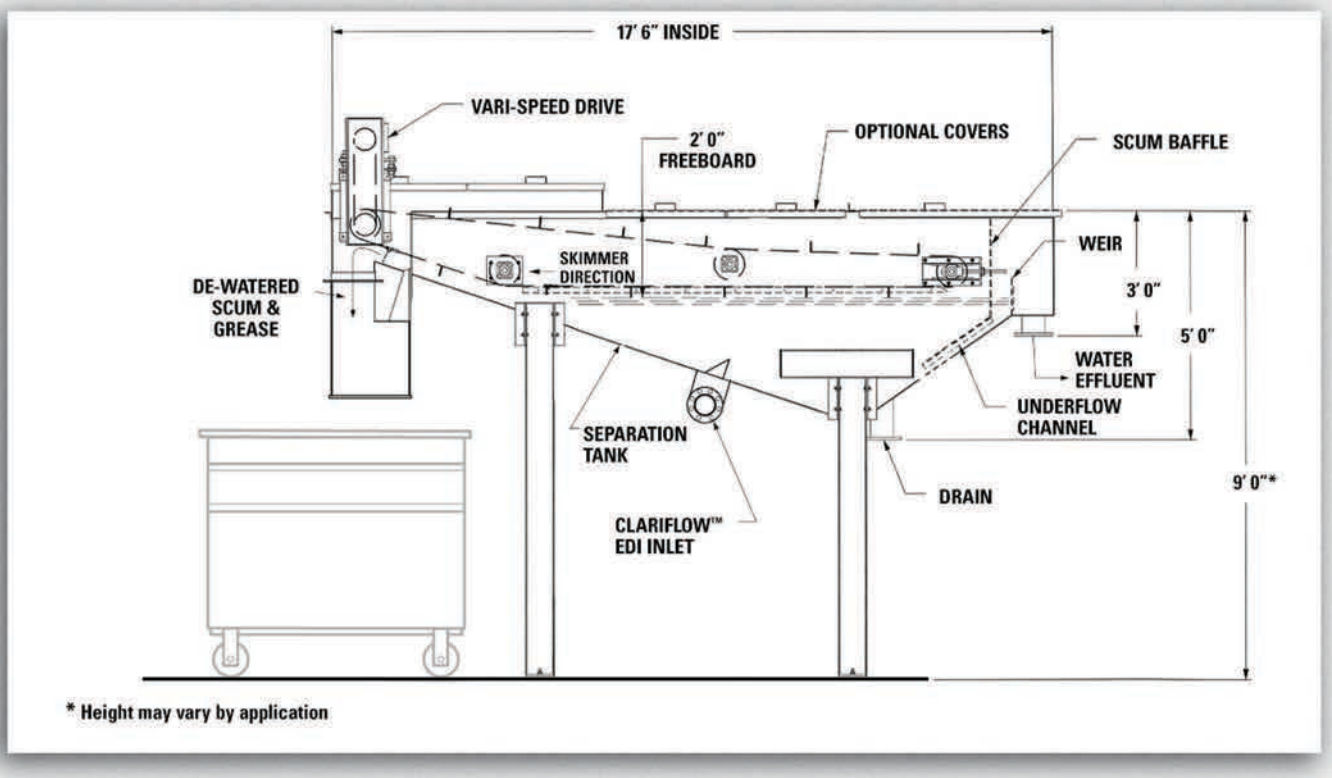
Clarifier skimmings need to be removed from wastewater processing and often are disposed of as solid waste. That disposal cost can be minimized by de-watering the solids to allow easier collection, handling and clean disposal.

The **Walker Process Scum Separator** provides an economical means to de-water clarifier skimmings to the maximum practical degree with the flexibility to collect the solids in standard portable bins, flexible bulk bags or other containers of your choice.

The Separation Tank is designed to provide optimal residence time for separation of the floatable material from the carrying water but not allow sufficient time for settleable solids to accumulate.

Scum Separator:

- **Effectively separates clarifier skimmings into floatable material and carrying water.**
- **Eliminates re-introduction of skimmings to downstream treatment steps.**
- **Enhance Anaerobic Digester operation by eliminating flow to the Digester:**
  - **Skimmings from clarifiers**
  - **Fats, oils, grease and other floatable material.**



Design for Effective Performance

Walker Process Equipment Scum Separators are designed to dewater skimmings from clarifiers.

The system consists of a flotation (separation) tank with an enhanced Energy Dissipating Inlet, non-corrosive chain and flight skimming system with variable speed operation, optional tank cover for odor control, appropriate detention time to allow floatables to surface but short enough to discourage settling of any settleable material.

Enhanced Energy Dissipating Inlet that prevents splashing and re-mixing of floating material

Small Footprint and volume allows easier indoor installation.

Variable speed skimmer to provide process control.

Flow Capacity from 100 to 300 gpm per tank.

Separation Tank

Specifically designed for separation of floatable material from carrying water
4'-0", 5'-0" or 6'-0" wide by 17'-6" long by 5'-0" deep.
Fabricated with 1/4" thick carbon steel or stainless steel plate.

Skimming Mechanism

Flights - Type 304 stainless steel
Shafting - 1 7/16" cold rolled steel
Bearings - Ball bearings, flanged, self-aligning, sealed and grease-lubricated.
Chain - Polymeric (Plastic)
Sprockets - Polymeric (Plastic)
Drive - 1/3 HP
Speed – Variable 2 - 9 fpm

Corrosion Protection

Units constructed with carbon steel are completely shop finish painted.

Cover

Optional removable panels
- Aluminum
- Stainless steel
- Fiberglass

Shop Assembly

All Scum Separators are fabricated and completely shop assembled and tested in the Walker Process Equipment plant in Aurora, IL

Walker Process has continuously provided and improved Scum Separators and Grease Concentration Systems since 1966.

For high FOG skimmings see the Walker Process Scum and Grease Concentration System.

Walker Process Equipment
Division of McNish Corporation
840 N. Russell Ave. • Aurora, IL 60506 • 1-800-992-5537
www.walker-process.com

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: LDO Probes for the Remaining Mixed Liquor Aeration Basins

Project ID #: _____ CIP ID #: SS-4

Department: WWTF Anticipated Start Date: 08/2024

Date Prepared: 02/14/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Of the six basins, there are currently only two probes that monitor and send the dissolved oxygen levels to the SCADA. Four more are needed for the remaining basins in order to provide accurate monitoring and better control of the secondary treatment process.

Project Need: Provide a brief explanation of why the project is necessary.

It is very cumbersome to determine the overall secondary treatment viability and control by relying on only two of the mixed liquor aeration basins. If one is out of service for any length time, there is only one left to continuously monitor the dissolved oxygen levels which is critical to the treatment process.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 40,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: New 200,000 Gallon Elevated Water Storage Tank - North Pressure District

Project ID #: _____ CIP ID #: WS-11

Department: DPS Anticipated Start Date: 07/2029

Date Prepared: 03/02/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Construction of new elevated storage tank in the north pressure district. The City would need to secure a 1 acre parcel of land, engineering, design, and construction of an approximately 200,000 gallon spheroidal elevated storage tank.

Project Need: Provide a brief explanation of why the project is necessary.

Our booster station is unable to meet all parameters set by the ten state standards. Although this is not a permit requirement at this time, it may be in the future. Potential development in this area could be delayed if the tank is not included in near future plans.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

In progress.

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 3,000,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☒ Ballpark "guesstimate"

Potential Funding Sources:

Water & Sewer Fund
Federal & State Loans

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Air Makeup Media Replacement - Press Room

Project ID #: _____ CIP ID #: WS-12

Department: Wastewater Anticipated Start Date: 07/2025

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Charcoal media replacement for the air scrubber in the press room.

Project Need: Provide a brief explanation of why the project is necessary.

The charcoal in this unit is old and broken down. The unit was unused for many years and is now repaired and functional. We believe we will get 2 years out of this media. We received a verbal price from the manufacturer on the cost of the charcoal media. We will do the removal and installation ourselves.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 15,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: North Primary Clarifier Mechanism

Project ID #: _____ CIP ID #: SS-13

Department: Wastewater Anticipated Start Date: 07/2028

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace the outdated mechanism on the north primary tank. The skimmer scrapper and stilling well.

Project Need: Provide a brief explanation of why the project is necessary.

This would update our North Primary tank with a new mechanism that would tie into our SCADA and create more efficiency in settling.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 400,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Additional Blower

Project ID #: _____ CIP ID #: SS-17

Department: Wastewater Anticipated Start Date: 07/2027

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Add a positive displacement blower in addition to the existing blowers.

Project Need: Provide a brief explanation of why the project is necessary.

This blower will allow for a reduced blowing speed to better match the current flows at the treatment plant. This will greatly improve efficiency and allow us to have greater system redundancy.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 175,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Railroad Street Lift Station Replacement

Project ID #: _____ CIP ID #: SS-18

Department: Public Services Anticipated Start Date: 07/2029

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Lift station replacement and improvement including pump replacement, control equipment, refurbishing equipment.

Project Need: Provide a brief explanation of why the project is necessary.

Lift station was built in the 1960's. Over 20 years past replacement life.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes.

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 524,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

CWSRF
Water and Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: North and Broadway Water and Sanitary Sewer Improvements

Project ID #: _____ CIP ID #: WS-33

Department: DPS Anticipated Start Date: 07/2026

Date Prepared: 03/06/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Approximately 782 feet of North St (From Broadway to Jefferson St.) of road reconstruction which involves storm sewer, sanitary sewer, and water main replacement, HMA resurfacing, Sidewalk, Driveway and ADA improvements. On Braodway, approximately 2,696 feet (from Woodlawn Ave to North City Limits) of road reconstruction which involves sanitary sewer, and lead service line replacement, HMA resurfacing, Driveway and ADA sidewalk improvements.

Project Need: Provide a brief explanation of why the project is necessary.

Infrastructure deterioration identified in city plans

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Previous CIP and state funding applications

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 6,666,805.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund
USDA Loan

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Green and Market Street Improvements

Project ID #: _____ CIP ID #: WS-19

Department: DPS Anticipated Start Date: 04/2025

Date Prepared: 03/06/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Reconstruction of Green and Market Streets, replacement and increased capacity of sanitary sewer main, approximately 90 lead service line replacements.

Project Need: Provide a brief explanation of why the project is necessary.

Sewer main has numerous defects and high consequence of failure; capacity is deficient. Adjacent properties have lead service lines that require replacement under EGLE rules. Road surface is deteriorated.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, previous CIP plans. Design engineering already authorized by City Council.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 7,302,060.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water and Sewer Fund
Loan

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Sanitary Sewer Televising Program

Project ID #: _____ CIP ID #: WS-20

Department: Sewer Anticipated Start Date: 07/2027

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Televising additional sanitary sewer lines throughout the collection system.

Project Need: Provide a brief explanation of why the project is necessary.

46% sanitary sewer has been televised to date, SAW BRE methodology did not prioritize many failing ROF 4/5 pipe issues, recommend additional review of CCTV results and additional televising on 5 yr or 10 year cycle is recommended by our engineers.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Prior CIP

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 300,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water & Sewer Fund
Cost to be spread out over a six year period.

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Marshall Street Water Main Replacement (including LSLRs and road improvements)

Project ID #: _____ CIP ID #: W-21 and LS-3

Department: DPS Anticipated Start Date: 07/2028

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace 2,500 ft water main and approximately 40 lead service lines. Full street to be reconstructed with 4inch HMA, minimal storm repairs.

Project Need: Provide a brief explanation of why the project is necessary.

History of water main breaks, aging service, lead service lines. Significant road deterioration.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Previous CIP

Does the project share space or overlap with other CIP projects? Please describe.

Yes, as described above

Project Cost: $ 2,881,943.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water & Sewer Fund
DWSRF or USDA Loan
Local Streets Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Clinton St. (east)/Dibble Water Main Replacement/Transmission Improvements (Hanover/M37 to State St)

Project ID #: _____ CIP ID #: W-22

Department: DPS Anticipated Start Date: 07/2026

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Transmission loop per WRS/City, Replace ex. 8" cast 1940's (breaks) with 12" on Clinton, New 12" extension on Dibble (1,200 ft total), reliability, fire flow, approximately 15 lead service lines need replacing. Sanitary sewer - ROF 5 spot repairs or pipe replacement 1940's VC

Project Need: Provide a brief explanation of why the project is necessary.

Improve service and replace aging infrastructure

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Previous CIP

Does the project share space or overlap with other CIP projects? Please describe.

As described above

Project Cost: $ 4,790,991.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund
DWSRF Loan
USDA Loan

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Clinton St (west) Water Main & LSLR(Michigan to West End) and S Benton Sanitary & Storm Replacement (Clinton to Walnut)

Project ID #: _____ CIP ID #: W-23 and MS-13

Department: DPS Anticipated Start Date: 07/2027

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace 4,000 ft main 8"/12" (breaks), and approximately 65 lead service line replacements. Full street reconstruct with 4" HMA/C&G, minimal storm, no sanitary.

Project Need: Provide a brief explanation of why the project is necessary.

Aging infrastructure, numerous water main breaks, deteriorated pavement condition. Lead service lines to be replaced.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, prior CIP

Does the project share space or overlap with other CIP projects? Please describe.

Yes, with projects WS-22 and MS-9

Project Cost: $ 4,430,376.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Funds
DW/CWSRF
USDA Loan

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: South Hanover Street(M-37) Lead Service Replacement

Project ID #: _____ CIP ID #: W-24 and MS-15

Department: Public Services Anticipated Start Date: 07/2026

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace lead service lines along South Hanover Street from Barfield Drive to Clinton Street. Includes road improvements.

Project Need: Provide a brief explanation of why the project is necessary.

Required by State of Michigan (EGLE).

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes.

Does the project share space or overlap with other CIP projects? Please describe.

Green and Market Street, Clinton & Marshall Street, E. Clinton Street, S. Hanover St., Apple Street, and N. Broadway Avenue.

Project Cost: $ 923,380.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

DWSRF
Water and Sewer Fund
Future Grants for Lead Line Replacements

List of Attachments (quotes, photos, etc.):

M&B 2024 DWSRF Estimate.

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Apple Street Sanitary Truck Sewer Replacement

Project ID #: _____ CIP ID #: SS-24

Department: Sewer Anticipated Start Date: 07/2026

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace 1950 feet of 15 inch sewer and upsize 850 feet of sewer to 24 inches.

Project Need: Provide a brief explanation of why the project is necessary.

Will improve capacity. Line has multiple fractures and I/I concerns.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Included in Previous CIPs. Applied in 2022 for MEDC funding.

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 4,609,744.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Funds
Loan

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Lead Line Replacement Program

Project ID #: _____ CIP ID #: W-25

Department: Public Services Anticipated Start Date: 07/2024

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of approximately 90 lead services a year starting north of the Thornapple River, west of Michigan Avenue, and South of State Road. The cost includes plumbing contractor and materials.

Project Need: Provide a brief explanation of why the project is necessary.

Required by State of Michigan (EGLE).

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes.

Does the project share space or overlap with other CIP projects? Please describe.

Green and Market Street, Clinton & Marshall Street, E. Clinton Street, S. Hanover St., Apple Street, and N. Broadway Avenue (lead services already included in cost of these projects).

Project Cost: $ 15,068,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

DWSRF
Water and Sewer Fund
Future Grants for Lead Line Replacements

List of Attachments (quotes, photos, etc.):

Plumbing Contractor = $2,500 per service
Total(90 each) per year = $225,000
Material Costs per year = $125,000.00

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Mill Street Sanitary Replacement (Michigan to Jefferson)

Project ID #: _____ CIP ID #: SS-26

Department: Sewer Anticipated Start Date: 07/2026

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Probable replacement of 150 ft of sewer main. Large sag was found in the line and a camera couldn't get through. Flow was not blocked in 2018. Additional investigation is needed to fully determine the project scope. Road repairs.

Project Need: Provide a brief explanation of why the project is necessary.

Damage found in the line.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Previous CIP

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 175,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Funds
Local Streets Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: E. Madison Sanitary Replacement

Project ID #: _____ CIP ID #: SS-27

Department: Sewer Anticipated Start Date: 07/2029

Date Prepared: 03/09/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replace 730 ft of sanitary sewer line

Project Need: Provide a brief explanation of why the project is necessary.

Aging infrastructure

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Prior CIP

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 450,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Funds

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Smoke Testing for Sanitary Sewer

Project ID #: _____ CIP ID #: WS-28

Department: Sewer Anticipated Start Date: 07/2027

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Smoke testing to detect areas of inflow and infiltration (I&I) into the sewer system.

Project Need: Provide a brief explanation of why the project is necessary.

2018 televising/flow study found I&I issues. Smoke testing the high I&I districts will identify sources of I&I.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Previous CIP

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 65,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Water Meter Replacements

Project ID #: _____ CIP ID #: WS-29

Department: Water Anticipated Start Date: 07/2024

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace 25% of water meters for four years until all the old meters are replaced.

Project Need: Provide a brief explanation of why the project is necessary.

Meters slow down as they age leading to lower revenue for the water system.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 400,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Funds
(200K per year)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Sanitary Sewer Spot Repairs

Project ID #: _____ CIP ID #: SS-30

Department: Sewer Anticipated Start Date: 07/2027

Date Prepared: 03/09/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Repair various portions of sewer main throughout the collection system.

Project Need: Provide a brief explanation of why the project is necessary.

Repair of defects found during camera investigations.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Prior CIPs

Does the project share space or overlap with other CIP projects? Please describe.

Unknown.

Project Cost: $ 100,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Sanitary line root treatment

Project ID #: _____ CIP ID #: SS-31

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 02/01/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Sanitary sewer root control treatment

Project Need: Provide a brief explanation of why the project is necessary.

Apply treatment to slow and reduce roots in sewer mains at various locations.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 25,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Water/Sewer Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: WWTP - Aerator Tank Access - Safety Improvements

Project ID #: _____ CIP ID #: SS-32

Department: Public Services Anticipated Start Date: 07/2025

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Safety Improvements to access aerator tanks for staff and contractors for maintenance and repair.

Project Need: Provide a brief explanation of why the project is necessary.

Now only use a ladder to enter several concrete tanks about 15 to 20 feet deep. The surface at the bottom of the tank is slippery, along with the ledge of the tank potentially.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 20,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Water and Sewer Fund

List of Attachments (quotes, photos, etc.):

Streets

Streets		2025	2026	2027	2028	2029	2030	Total
MS-1	Stop Sign Replacement	12,000						12,000
MS-2	Michigan Ave Bridge Maintenance	50,000						50,000
MS-3	Boltwood Storm Sewer Replacement	30,000						30,000
MS-4	State St Storm Sewer Replacement			345,000				345,000
MS-5	Chipsealing	175,000						175,000
MS-6	E. State Rd Mill and resurface			600,000				600,000
MS-7	E. Grand Street storm sewer replacement					210,000		210,000
MS-8	E. Grand Street mill & resurface					600,000		600,000
MS-9	concrete repairs - sidewalk, curb & gutter, drive approaches	50,000	50,000		50,000	50,000	50,000	250,000
MS-10	E. State Street - mill and resurface	600,000						600,000
MS-11	Woodlawn Sidewalk Install Broadway to Bob King Park			50,000				50,000
MS-13*	Clinton St. (west) (Michigan to West End), and S Benton Storm Sewer Replacement (Clinton to Walnut)				1,649,137			1,649,137
MS-15*	Hanover Improvements			373,404				373,404
LS-1	Road Gravel	10,000						10,000
LS-2	concrete repairs - sidewalk, curb & gutter, drive approaches	30,000	30,000	30,000	30,000	30,000	30,000	180,000
LS-3*	Marshall St. (Jefferson to West End)					1,096,873		1,096,873
S-1	Storm Sewer Televising Program	69,000	71,000	73,000	75,000	78,000	81,000	447,000
S-2	Storm Sewer Spot Repairs					38,807		38,807
Total Streets		1,026,000	151,000	1,471,404	1,804,137	2,103,680	161,000	6,717,221

***MS-13, MS-15, and LS-3 Project Descriptions are included in the Water/Sewer section**

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Stop Sign Replacement

Project ID #: _____ CIP ID #: MS-1

Department: Garage Anticipated Start Date: 07/2024

Date Prepared: 02/15/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace stop and yield signs within the city limits as needed.

Project Need: Provide a brief explanation of why the project is necessary.

Signs fail to meet standards for prismatic reflectivity as required

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

None.

Does the project share space or overlap with other CIP projects? Please describe.

None.

Project Cost: $ 12,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Major Streets Fund
Local Streets Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Michigan Ave Bridge Maintenance

Project ID #: _____ CIP ID #: MS-2

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 03/07/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Sandblasting and repainting of the Michigan Ave bridge

Project Need: Provide a brief explanation of why the project is necessary.

The bridge was constructed and painted in 2011. Paint is starting to flake off and is starting to create small pits that may start to deteriorate the surface if not maintained.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 50,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Major Streets Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Boltwood Storm Sewer Replacement (South of Mill St)

Project ID #: _____ CIP ID #: MS-3

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 02/15/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace storm sewer on Boltwood, south of Mill Street.

Project Need: Provide a brief explanation of why the project is necessary.

Known hole in bottom of storm pipe

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 30,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Major Streets Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: State Street Storm Replacement (Boltwood to Michigan)

Project ID #: _____ CIP ID #: MS-4

Department: DPS Anticipated Start Date: 08/2026

Date Prepared: 02/17/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replace existing storm sewer under State Street from Michigan Avenue to Boltwood. Repave section of road over trench and mill and pave 2" over rest of street.

Project Need: Provide a brief explanation of why the project is necessary.

Deterioration of the storm sewer in this area has led to street deformation.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 345,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Major Street Fund
Potential DDA Funds

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Chip Sealing

Project ID #: _____ CIP ID #: MS-5

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 01/30/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Chip sealing of various streets

Project Need: Provide a brief explanation of why the project is necessary.

There has not been any chip sealing done in the last 10 years. This would start to preserve the roads that are currently 5 or above according to the PASER rating.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 175,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Major and local street fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: E. State Road Improvement - From 1st St. to East City Limits

Project ID #: _____ CIP ID #: MS-

Department: DPS Anticipated Start Date: 04/2027

Date Prepared: 02/19/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Mill and pave aprox. 3 inches of HMA pavement, along with replace curb & gutter, sidewalk ramps, and drive approaches as needed. Also, restripe pavement markings.

Project Need: Provide a brief explanation of why the project is necessary.

Street is deteriorated.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 600,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Small Urban Grant ($375,000)
Major Street Funds($225,000 20% Min.)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: E. Grand Storm Replacement (Michigan to Hanover)

Project ID #: _____ CIP ID #: MS-7

Department: DPS Anticipated Start Date: 07/2028

Date Prepared: 03/07/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of storm sewer under E. Grand between Michigan and Hanover.

Project Need: Provide a brief explanation of why the project is necessary.

Storm sewer deterioration

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

Yes - E. Grand resurface project

Project Cost: $ 210,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Major Street Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: E. Grand Street Improvement - From Hanover St. to E. State St.

Project ID #: _____ CIP ID #: MS-8

Department: DPS Anticipated Start Date: 04/2029

Date Prepared: 02/19/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Mill and pave aprox. 3 inches of HMA pavement, along with replace curb & gutter, sidewalk ramps, and drive approaches as needed. Also, restripe pavement markings.

Project Need: Provide a brief explanation of why the project is necessary.

Street is deteriorated.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

Yes, E. Grand Storm Sewer Replacement

Project Cost: $ 600,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Small Urban Grant ($375,000)
Major Street Funds($225,000, 20% minimum match)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Major Street Contracted Miscellaneous Sidewalk, Curb & Gutter, and Drive Approach

Project ID #: _____ CIP ID #: MS-9

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 02/19/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Bid proposals a concrete flatwork contractor to place new sidewalk, curb & gutter, and drive approach in prioritized locations through out the city. This will be for sections deemed to large for DPS to handle. DPS will remove existing concrete and prepare for rough grading. Planned annual expense.

Project Need: Provide a brief explanation of why the project is necessary.

There are many locations in the city of dangerous or insufficient sidewalk, curb & gutter, and drive approach. This must begin to be repaired to an acceptable level. I will develop a map (GIS) that we will prioritize and use to bid each year.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 50,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Major Street Funds

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: E.State Street Improvement - from Boltwood to Clinton

Project ID #: _____ CIP ID #: MS-10

Department: DPS Anticipated Start Date: 04/2025

Date Prepared: 02/19/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Mill and pave aprox. 3 inches of HMA pavement, along with replace curb & gutter, sidewalk ramps, and drive approaches as needed. Also, restripe pavement markings.

Project Need: Provide a brief explanation of why the project is necessary.

Street is deteriorated.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 600,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Small Urban Grant ($375,000)
Major Street Funds ($225,000, 20% Min.)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Woodlawn Avenue Sidewalk (From Broadway Avenue to Bob King Park Entrance)

Project ID #: _____ CIP ID #: MS-11

Department: DPS Anticipated Start Date: 07/2026

Date Prepared: 02/19/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Place 5' wide 4" thick concrete sidewalk from Broadway Avenue(M-43) to Bob King Park Entrance on the South side of Woodlawn Avenue.

Project Need: Provide a brief explanation of why the project is necessary.

This will connect popular Bob King Park to pedestrians that are coming from Broadway Avenue.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 50,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Major Street Funds

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Purchase of 22A Road Gravel

Project ID #: _____ CIP ID #: LS-1

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 01/16/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Purchase of road gravel specifically for dirt roads.

Project Need: Provide a brief explanation of why the project is necessary.

This would allow us to maintain our gravel roads better and would also allow our dust control to potentially last longer. It also has more of a clay base than the crushed concrete we currently use.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 10,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Local Streets Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Local Street Contracted Miscellaneous Sidewalk, Curb & Gutter, and Drive Approach

Project ID #: _____ CIP ID #: L-2

Department: Public Services Anticipated Start Date: 07/2024

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Bid proposals a concrete flatwork contractor to place new sidewalk, curb & gutter, and drive approach in prioritized locations through out the city. This will be for sections deemed to large for DPS to handle. DPS will remove existing concrete and prepare for rough grading.

Project Need: Provide a brief explanation of why the project is necessary.

There are many locations in the city of dangerous or insufficient sidewalk, curb & gutter, and drive approach. This must begin to be repaired to an acceptable level. I will develop a map (GIS) that we will prioritize and use to bid each year.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 30,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Local Street Funds

List of Attachments (quotes, photos, etc.):

$30,0000 per year.

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Storm Sewer Televising Program

Project ID #: _____ CIP ID #: S-1

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 02/15/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Continued storm sewer CCTV and review of results

Project Need: Provide a brief explanation of why the project is necessary.

Only 12% of storm sewer has been televised to date, SAW BRE methodology did not prioritize many failing pipe issues.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 447,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Major and Local Streets Funds

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Storm Spot Repairs

Project ID #: _____ CIP ID #: S-2

Department: DPS Anticipated Start Date: 07/2028

Date Prepared: 03/10/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Spot repair deficiencies found in system during review of CCTV results.

Project Need: Provide a brief explanation of why the project is necessary.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Prior CIP

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 38,807.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Major and Local Streets

List of Attachments (quotes, photos, etc.):

CEMETERY

Cemetery		2025	2026	2027	2028	2029	2030	Total
RC-1	Riverside Cemetery Reflective Area	125,000	100,000	125,000				350,000
Total Cemetery		125,000	100,000	125,000	0	0	0	350,000

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Riverside Cemetery Memorial

Project ID #: _____ CIP ID #: RC-1

Department: Cemetery Administration Anticipated Start Date: 05/2024

Date Prepared: 02/08/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Creation of a designated space within the Riverside Memorial Cemetery that will be for reflection with possible plan for memorial recognition. Potential improvements to include memorial wall, landscaping, memorial pavers, fountain, benches, etc. Access will be provided for people of all abilities. City Council has approved moving forward with Phase I of the plan designs, with design work to take place winter/spring 2024 with Phase I construction planned once all funding has been identified.

Project Need: Provide a brief explanation of why the project is necessary.

When the cemetery was acquired in 2014, a reflective space was included in the original plans for updating and improving the cemetery. The Riverside Cemetery Preservation Advisory Board has made this project a priority, and worked with a consultant to develop a concept for the memorial space. City Council has approved the conceptual design.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Cemetery Master Plan

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 350,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Cemetery millage, Committed Fund Balance. A total of $88,850 remains from the original $100,000 project budget as of 02/24.Total cost changed to $350,000 for all 3 phases of project, though only phase I has been approved by Council.

List of Attachments (quotes, photos, etc.):

City Council agenda item from November 13, 2023 with conceptual design.

Regular Council Agenda Item Memorandum

To: Hastings City Council

From: Christopher Bever, City Clerk/Treasurer/Finance Director

Subject: Riverside Cemetery Memorial Project

Meeting Date: November 13, 2023

Recommended Action:

Motion to approve the conceptual Riverside Cemetery Memorial design and authorize staff to proceed with an RFP for detailed construction documents associated with Phase I of the design.

Background Information:

On March 13, 2023, City Council approved a contract with Landscape Architects and Planners to develop a concept for a memorial at Riverside Cemetery. Landscape Architects and Planners have finished their work and attached is the concept for the Riverside Cemetery Memorial.

The Riverside Cemetery Preservation Advisory Committee has reviewed the concept and is recommending its approval to City Council. Due to current financial limitations, the committee is recommending advancing phase I of the project. Future phases will be considered for implementation as funding becomes available through fundraising efforts coordinated by the advisory committee.

As part of this project, the advisory committee discussed road access to the memorial. City staff is not yet prepared to make a recommendation regarding road access; however, the memorial design itself is not contingent on decisions regarding the road to be finalized at this time. Staff would expect to have a recommendation on road access to the memorial once a detailed cost estimate based on construction documents has been finalized.

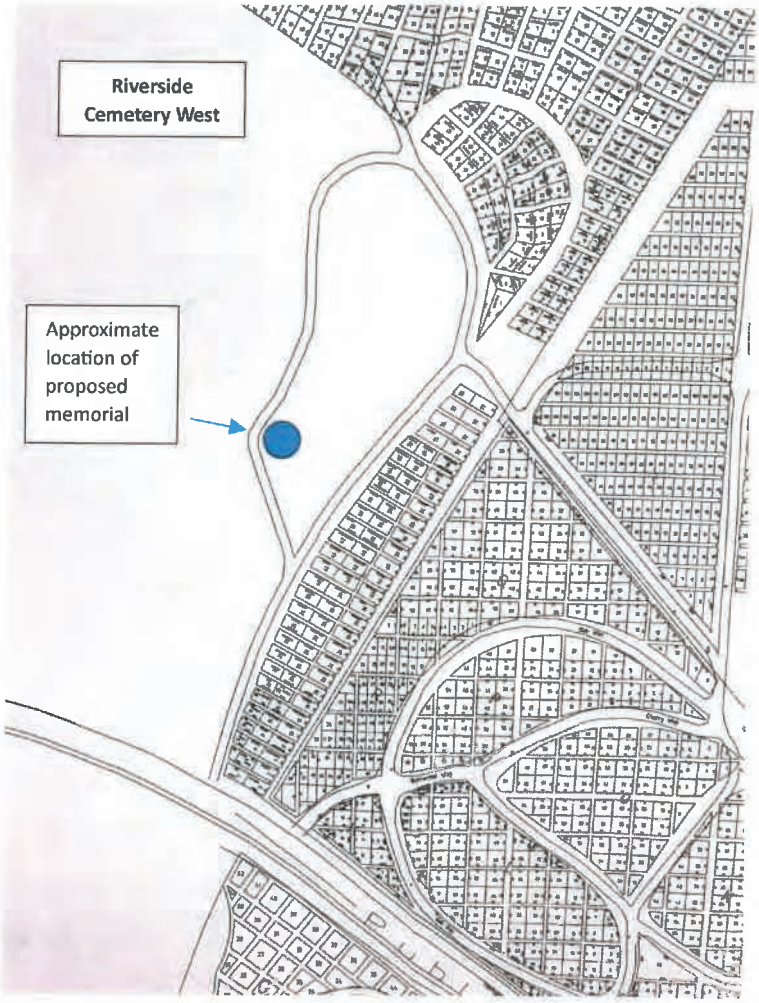
Financial Implications:

Phase I of the design is estimated to cost $90,269. Of the original $100,000 budgeted for the memorial, a balance of $88,850 remains. Staff will bring back for approval a contract for construction once a bid has been accepted.

The total estimated cost of the memorial (all three phases) is $288,315, excluding any potential costs to improve road access. Completion of additional phases will be dependent on fundraising efforts to support the project.

Attachments:

- Memorial Site Information
- Riverside Cemetery Memorial Conceptual Design
- Riverside Cemetery Memorial Estimate of Costs by Phase



View from back of proposed memorial site

View from cemetery road to proposed memorial site

RIVERSIDE MEMORIAL - PERSPECTIVE RENDERING

LAP + CREATIVE
Landscape Architects and Planners

OAKLAND CENTER
809 CENTER STREET
SUITE ONE
LANSING, MI 48906
P: (517) 485-5500
F: (517) 485-5576
info@lapinc.net

REVISIONS

INITIALS	DATE	COMMENTS
DP	07/10/23	REVISION OPTIONS (C) & (D)
NW	08/01/23	DESIGN UPDATES

CITY OF HASTINGS, MI

0000 STREET
HASTINGS, MI 49058
P: (000) 000-0000

HASTINGS RIVERSIDE CEMETEERY MEMORIAL GARDEN

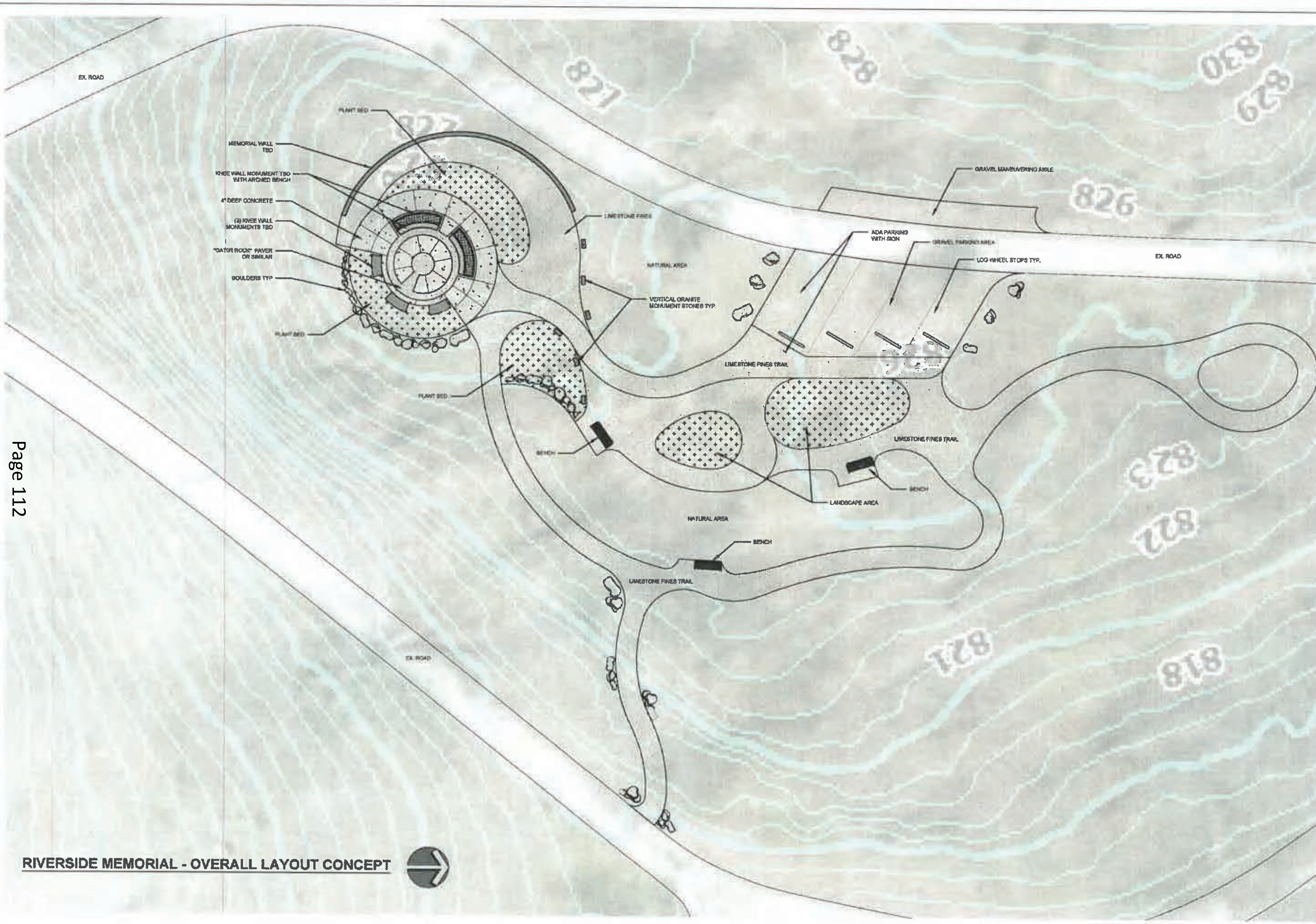
PERSPECTIVE RENDERING

STREET CITY, STATE ZIP

DATE: 07/26/2023
DESIGNED BY: DP
CHECKED BY: NW
DRAWN BY: --
PROJECT NO. 23011
SCALE
HORIZ.: NA
VERT.: NA

SHEET
4 OF 4

Plot Date: 8/2/2023 8:26 AM



RIVERSIDE MEMORIAL - OVERALL LAYOUT CONCEPT

Plot Date: 8/2/2023 9:26 AM

LAP + CREATIVE
Landscape Architects and Planners.

OAKLAND CENTER
809 CENTER STREET
SUITE ONE
LANSING, MI 48906
P: (517) 485-5500
F: (517) 485-5576
info@lapinc.net

REVISIONS

INITIALS	DATE	COMMENTS
DP	07/10/23	REDESIGN OPTIONS (C) & (D)
NW	08/01/23	DESIGN UPDATES

CITY OF HASTINGS, MI

0000 STREET
HASTINGS, MI 49058
P: (000) 000-0000

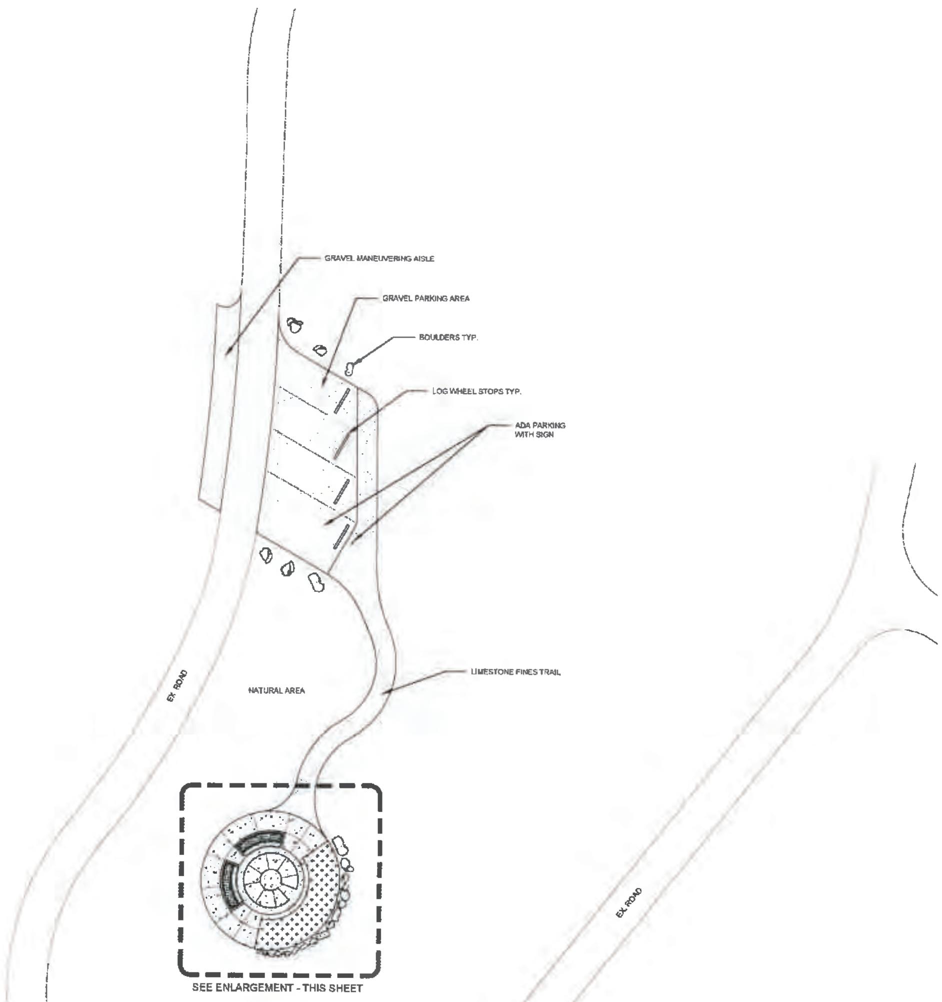
HASTINGS RIVERSIDE CEMETEERY MEMORIAL GARDEN

OVERALL CONCEPT PLAN

STREET, CITY STATE ZIP

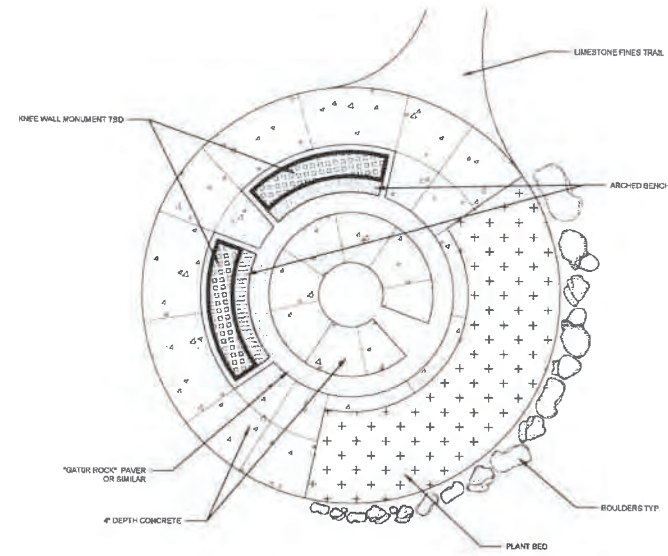
DATE: 07/20/2023
DESIGNED BY: DP
CHECKED BY: NW
DRAWN BY: —
PROJECT NO. 23511
SCALE:
HORIZ.: N/A
VERT.: N/A

SHEET 1 OF 4



RIVERSIDE MEMORIAL - PHASE 1

ESTIMATED COST: $90,300.00



MEMORIAL AREA ENLARGEMENT

Know what's below. Call before you dig.

LAP + CREATIVE
Landscape Architects and Planners

OAKLAND CENTER
809 CENTER STREET
SUITE ONE
LANSING, MI 48906
P: (517) 485-5500
F: (517) 485-5576
info@lapinc.net

REVISIONS

INITIALS	DATE	COMMENTS
DP	07/10/23	REDESIGN OPTIONS (C) & (D)
NW	08/01/23	DESIGN UPDATES

CITY OF HASTINGS, MI

0000 STREET
HASTINGS, MI 49058
P: (000) 000-0000

HASTINGS RIVERSIDE CEMETEERY MEMORIAL GARDEN

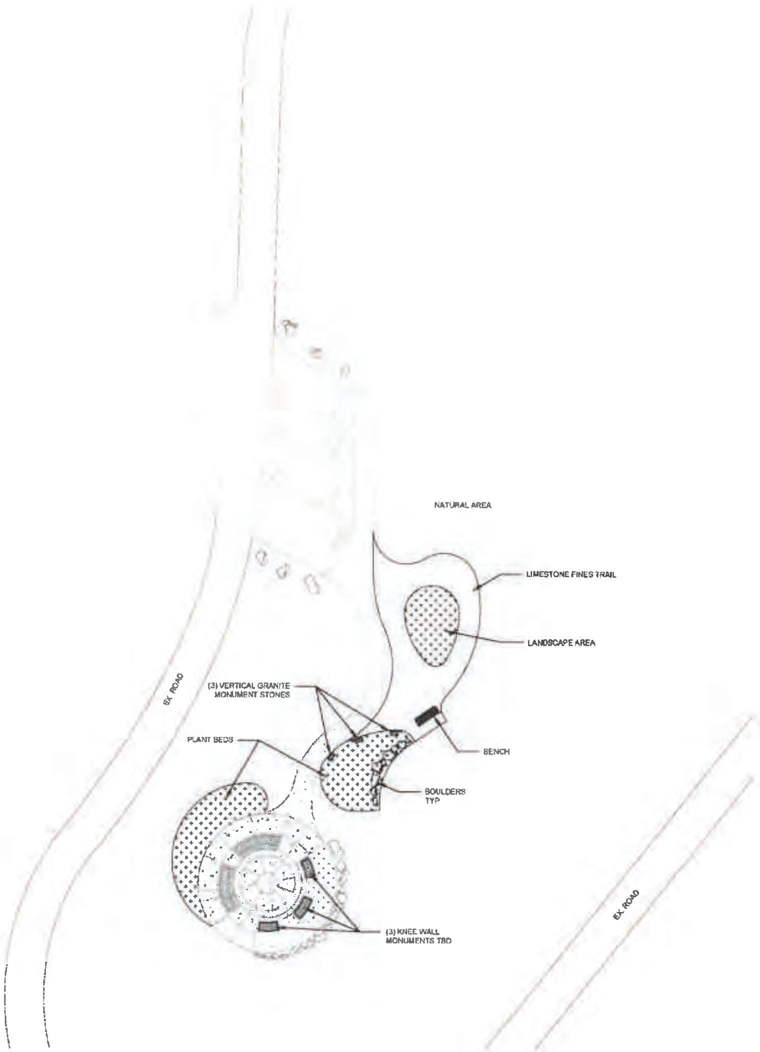
PHASE 1 LAYOUT

STREET, CITY, STATE ZIP

DATE: 07/20/22
DESIGNED BY: DP
CHECKED BY: NW
DRAWN BY: --
PROJECT NO. 23011
SCALE
HORIZ: N/A
VERT.: N/A

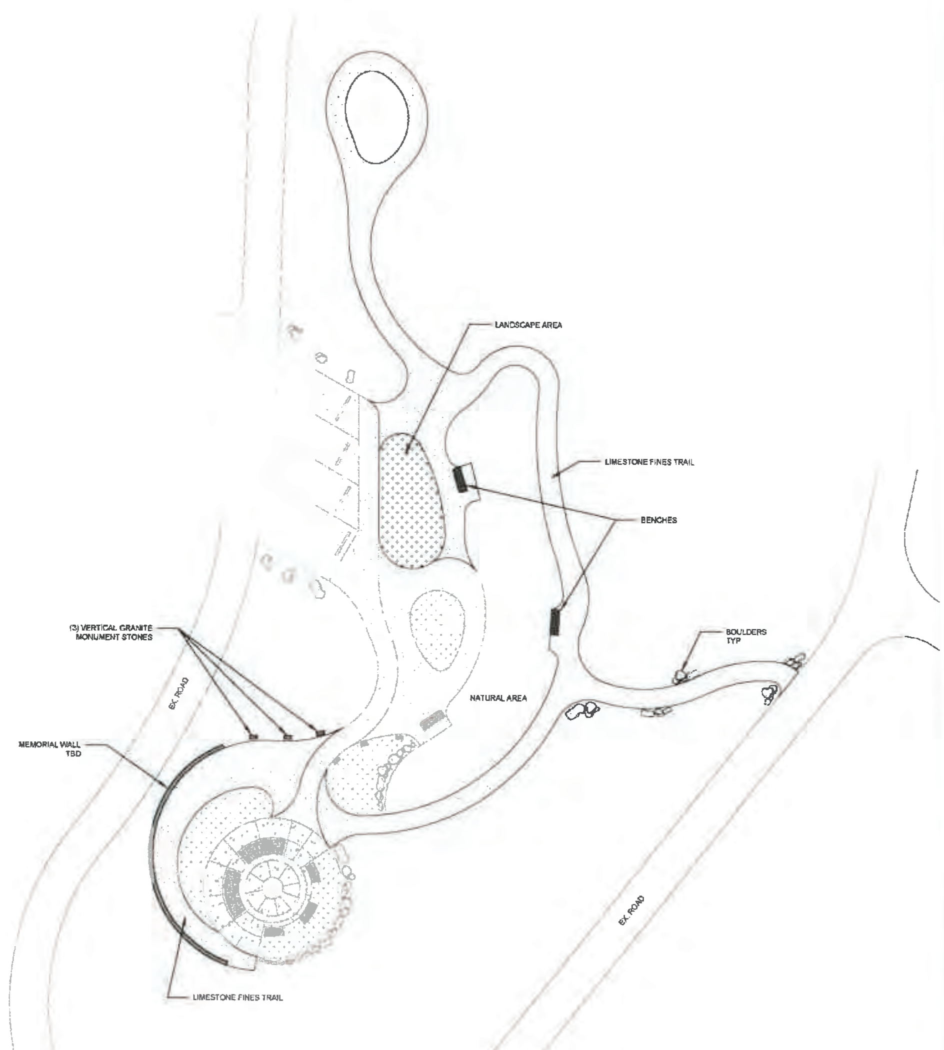
SHEET 2 OF 4

Plot Date: 8/2/2023 9:26 AM



RIVERSIDE MEMORIAL - PHASE 2

ESTIMATED COST: $53,800.00



RIVERSIDE MEMORIAL - PHASE 3

ESTIMATED COST: $144,300.00

Know what's below. Call before you dig.

LAP + CREATIVE
Landscape Architects and Planners
OAKLAND CENTER
809 CENTER STREET
SUITE ONE
LANSING, MI 48906
P: (517) 485-5500
F: (517) 485-5576
info@lapinc.net

REVISIONS

INITIALS	DATE	COMMENTS
DP	07/10/23	REDESIGN OPTIONS (C) & (D)
NW	08/01/23	DESIGN UPDATES

CITY OF HASTINGS, MI
0000 STREET
HASTINGS MI 49058
P: (000) 000-0000

HASTINGS RIVERSIDE CEMETEERY MEMORIAL GARDEN

PHASE 2 AND 3 LAYOUTS

STREET, CITY STATE ZIP

DATE: 07/20/23
DESIGNED BY: DP
CHECKED BY: NW
DRAWN BY: ---
PROJECT NO. 23011
SCALE
HORIZ: N/A
VERT: N/A

SHEET 3 OF 4

Plot Date: 8/2/2023 9:26 AM

HASTINGS RIVERSIDE CEMETERY MEMORIAL GARDEN

1003 W. State Rd.,Hastings MI

August 2, 2023

*"**Phase 1"** Opinion of Probable Cost*

Prepared By: Landscape Architects & Planners, Inc.

Scope Item	Qty	Unit	Unit Price	Amount
Site Preparation				
Staking and layout	1	LSUM	$ 2,000.00	$ 2,000.00
SESC Measures (*soil erosion and sedimentation control*)	1	LSUM	$ 1,500.00	$ 1,500.00
Excavation and grading	1	LSUM	$ 15,000.00	$ 15,000.00
Tree Removal/Clearing	1	LSUM	$ 12,000.00	$ 12,000.00
Topographic Survey	1	LSUM	$ 3,500.00	$ 3,500.00
				$ 34,000.00
Parking Area				
Compacted 21AA gravel (6" depth)	28	CY	$ 70.00	$ 1,960.00
Staked Log wheelstops	4	EA	$ 75.00	$ 300.00
ADA parking sign	1	EA	$ 200.00	$ 200.00
				$ 2,460.00
Memorial and Walks				
4" concrete	520	SF	$ 12.00	$ 6,240.00
1" Riverstone w/ "Gator Rock" Sealer	142	SF	$ 10.00	$ 1,420.00
6" 21AA subbase (below river rock)	3	CY	$ 70.00	$ 210.00
3" Limestone fines walk	8	CY	$ 90.00	$ 720.00
4" 21AA subbase (below fines)	10	CY	$ 70.00	$ 700.00
Boulders	40	EA	$ 100.00	$ 4,000.00
Metal edging	264	LF	$ 20.00	$ 5,280.00
Monument Knee Wall "Concrete Form"	26	LF	$ 285.00	$ 7,410.00
Arched Knee wall Bench	2	EA	$ 3,000.00	$ 6,000.00
				$ 31,980.00
Landscaping and Restoration				
Plant Beds (plantings and mulch)	200	SF	$ 8.00	$ 1,600.00
Restoration and Seeding	450	SY	$ 3.50	$ 1,575.00
				$ 3,175.00
Amenities				
Trash receptacle	1	EA	$ 600.00	$ 600.00
				$ 600.00
			Subtotal	**$ 72,215.00**
			Mobilization and General Conditions 5%	$ 3,610.75
			Contingency 5%	$ 3,610.75
			Engineering 15%	$ 10,832.25
			Total	**$ 90,268.75**
			Total Project (Phases 1-3)	**$ 288,315.00**

HASTINGS RIVERSIDE CEMETERY MEMORIAL GARDEN

1003 W. State Rd.,Hastings MI

August 2, 2023

*"**Phase 2"** Opinion of Probable Cost*

Prepared By: Landscape Architects & Planners, Inc.

Scope Item	Qty	Unit	Unit Price	Amount
Site Preparation				
Staking and layout	1	LSUM	$ 750.00	$ 750.00
SESC Measures (*soil erosion and sedimentation control*)	1	LSUM	$ 500.00	$ 500.00
Excavation and grading	1	LSUM	$ 5,000.00	$ 5,000.00
Clearing	1	LSUM	$ 4,000.00	$ 4,000.00
				$ 10,250.00
Memorial and Walks				
3" Limestone Fines	8	CY	$ 90.00	$ 720.00
4" 21AA subbase	10	CY	$ 70.00	$ 700.00
Boulders	8	EA	$ 100.00	$ 800.00
Edging	225	LF	$ 20.00	$ 4,500.00
Monument Knee Wall "Concrete Form"	17	LF	$ 285.00	$ 4,845.00
Uprite Granite Memorial Stones	3	EA	$ 3,500.00	$ 10,500.00
				$ 22,065.00
Landscaping and Restoration				
Plant Beds	860	SF	$ 9.00	$ 7,740.00
Restoration and Seeding	200	SY	$ 3.50	$ 700.00
				$ 8,440.00
Amenities				
Bench	1	EA	$ 2,250.00	$ 2,250.00
				$ 2,250.00
			Subtotal	**$ 43,005.00**
			Mobilization and General Conditions 5%	$ 2,150.25
			Contingency 5%	$ 2,150.25
			Engineering 15%	$ 6,450.75
			Total	**$ 53,756.25**

HASTINGS RIVERSIDE CEMETERY MEMORIAL GARDEN

1003 W. State Rd.,Hastings MI

August 2, 2023

*"**Phase 3"** Opinion of Probable Cost*

Prepared By: Landscape Architects & Planners, Inc.

Scope Item	Qty	Unit	Unit Price	Amount
Site Preparation				
Staking and layout	1	LSUM	$ 2,500.00	$ 2,500.00
SESC Measures (*soil erosion and sedimentation control*)	1	LSUM	$ 1,200.00	$ 1,200.00
Excavation and grading	1	LSUM	$ 15,000.00	$ 15,000.00
Clearing	1	LSUM	$ 10,000.00	$ 10,000.00
				$ 28,700.00
Memorial and Walks				
3" Limestone Fines	34	CY	$ 90.00	$ 3,060.00
4" 21AA subbase	45	CY	$ 70.00	$ 3,150.00
Boulders	10	EA	$ 100.00	$ 1,000.00
Edging	110	LF	$ 20.00	$ 2,200.00
Uprite Granite Memorial Stones	3	EA	$ 2,500.00	$ 7,500.00
Arched Memorial Wall	360	FF	$ 175.00	$ 63,000.00
				$ 79,910.00
Landscaping and Restoration				
Plant Beds	258	SF	$ 9.00	$ 2,322.00
Restoration and Seeding	1,000	SY	$ 3.50	$ 3,500.00
				$ 2,322.00
Amenities				
Benches	2	EA	$ 2,250.00	$ 4,500.00
				$ 4,500.00
			Subtotal	**$ 115,432.00**
			Mobilization and General Conditions 5%	$ 5,771.60
			Contingency 5%	$ 5,771.60
			Engineering 15%	$ 17,314.80
			Total	**$ 144,290.00**

TIF Funds

TIF Funds		2025	2026	2027	2028	2029	2030	Total
DDA-1	Downtown street light replacements				415,000			415,000
DDA-2	Downtown sidewalk improvements					200,000	200,000	400,000
DDA-3	Parking Lot 8	235,000						235,000
Total TIF		235,000	0	0	415,000	200,000	200,000	1,050,000

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Downtown Streetlight Replacement

Project ID #: _____ CIP ID #: DDA-1

Department: DDA Anticipated Start Date: 07/2027

Date Prepared: 02/15/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace remaining streetlights in core downtown area, exclusive of parking lots. Cost includes installation estimate.

Project Need: Provide a brief explanation of why the project is necessary.

Lights are aging and rusting. New lights would match the lights on State Street and unify the downtown theme.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 415,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

DDA Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Downtown Sidewalk Improvements

Project ID #: _____ CIP ID #: DDA-2

Department: DDA Anticipated Start Date: 07/2028

Date Prepared: 02/15/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace portions of sidewalk where needed on S. Jefferson, Church, and elsewhere in core downtown.

Project Need: Provide a brief explanation of why the project is necessary.

Sidewalks are aging and in need of repair.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 400,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

DDA Fund -

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Parking Lot 8 Reconstruction

Project ID #: _____ CIP ID #: DDA-3

Department: DDA Anticipated Start Date: 05/2024

Date Prepared: 02/14/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Reconstruct Parking Lot 8.

Project Need: Provide a brief explanation of why the project is necessary.

Parking Lot 8 was left unimproved after the City acquistion of the former Ace Building several years ago. The construction of the Lofts at 128 increased the need to enhance th parking lot to City standards.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Yes, 2023 CIP

Does the project share space or overlap with other CIP projects? Please describe.

Yes. Streetscape project and reclamation of 133 E. State Street.

Project Cost: $ 235,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

DDA funding approval

List of Attachments (quotes, photos, etc.):

Estimate dated September 19, 2023 provided by Katerberg VerHage.

KATERBERG VERHAGE
CREATE. GROW. PRESERVE.

September 19, 2023

City of Hastings
201 E. State St
Hastings, MI 49058

Project: Parking Lot 8 Reconstruction
RE: Bid Alternates

The costs below were requested to be removed from the base bid value for our bid for the City of Hastings Parking Lot 8 Reconstruction

Base bid as submitted on 8/16/2023 =	$251,771.00
Use a city recommended mason =	$(9,550.00)
Reduce the amount of 'Blue Point' Juniper to (14) and downsize landscape trees from 3" caliper to 2" caliper =	$(4,929.00)
Eliminate the mixed planting soil for the landscape beds and use onsite or imported topsoil, as needed =	$(2,000.00)
Time extension through spring 2024 =	$(2,000.00)

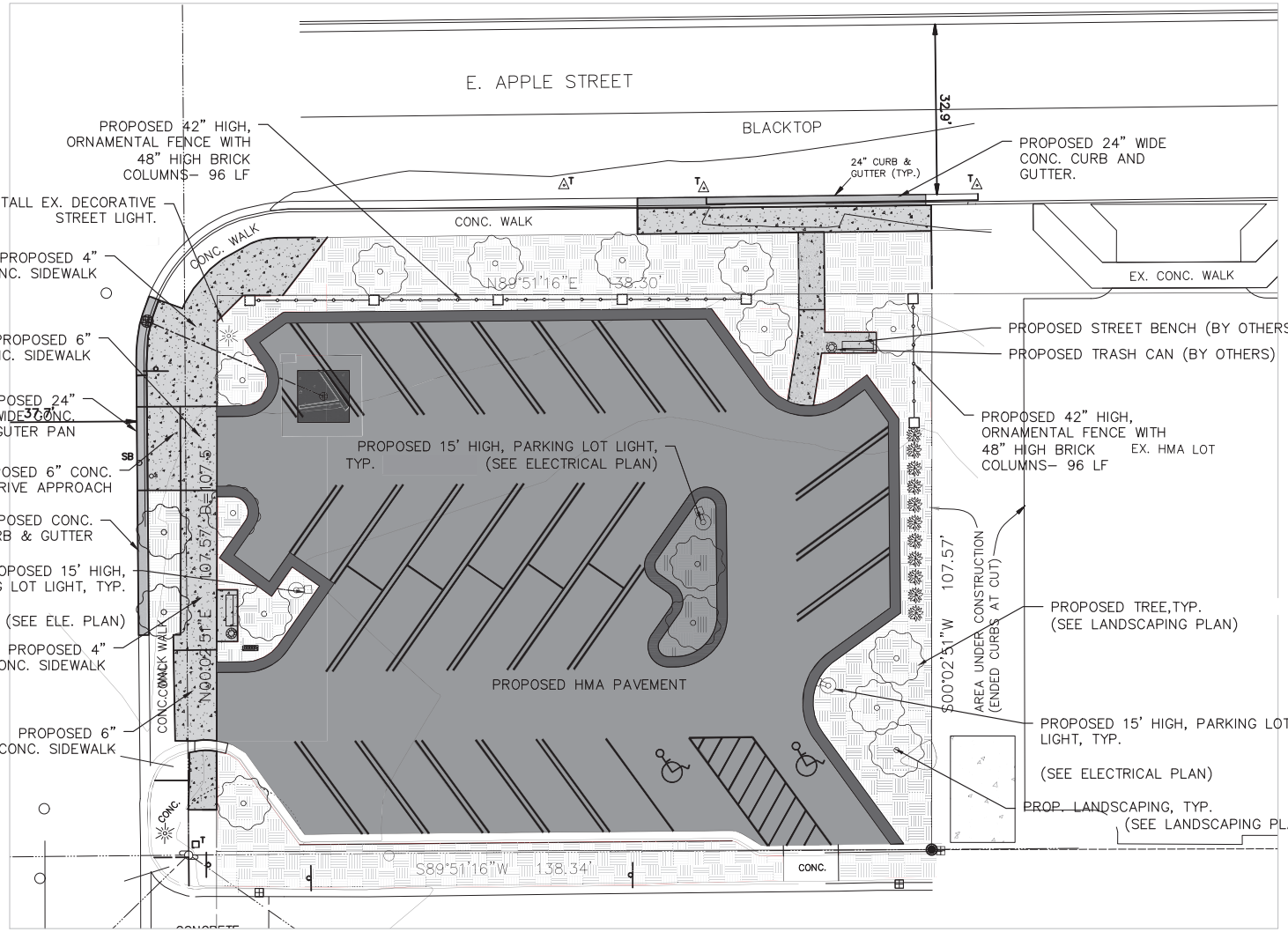
Revised Total = $233,292.00

Thank you,

Joel Franken

Project Manager
joelf@katerbergverhage.com

3717 Michigan NE Grand Rapids MI 49525 Phone: 616-949-3030 Fax: 616-949-3326 www.katerbergverhage.com



PROPOSED LOT 8 LAYOUT PLAN

SCALE: 1" = 10'

EXISTING LEGEND

- = IRON STAKE FOUND
- = IRON STAKE SET
- = UTILITY POLE & GUY WIRE
- = SIGN
- = HYDRANT
- = WATERMAIN VALVE
- = CATCH BASIN
- = MANHOLE
- = FENCE LINE
- = OVERHEAD WIRES
- R = RECORDED DIMENSION
- 1' CONTOUR INTERVAL
- = EXISTING TREE LINE

0 5' 13' 20' SCALE: 1"=10'

PROPOSED LEGEND

- CONC. CURB & GUTTER
- CONC. SIDEWALK
- HMA PARKING LOT PAVING
- BRICK WALL
- TREE
- LANDSCAPING OR RESTORATION
- BENCH
- TRASH CAN

SITE NOTES:

1. OVERAL AREA = **19,090** SF
2. PROP. IMPERVIOUS AREA = **13,466** SF
   - 2.1. HMA LOT AREA = **10,754** SF
   - 2.2. CURB & GUTTER =**1,090** SF
   - 2.3. SIDEWALK =**1,622** SF
3. LANDSCAPE AREA = **5,624** SF
4. PERCENT IMPERVIOUS AREA = **70%**
5. PARCEL NO. 55–201–050–20
6. ZONED B–1, CENTRAL BUSINESS DISTRICT
7. PARKING LOT SPACES:
   - 7.1. STANDARD SPACES = **31** EA
   - 7.2. HANDICAP SPACES = **2** EA
   - TOTAL = **33** EA

STATE OF MICHIGAN TRAVIS JAY TATE ENGINEER PROFESSIONAL ENGINEER

REVISIONS

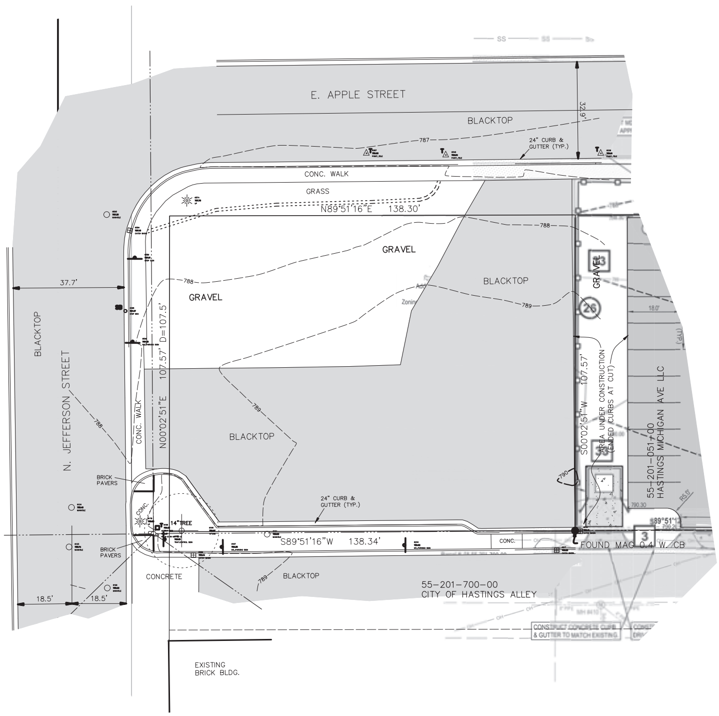
1	BID–07–17–23
2	
3	
4	
5	

PROPOSED PARKING LOT 8 RECONSTRUCTION
125 N. JEFFERSON STREET
CITY OF HASTINGS
201 E. STATE STREET
HASTINGS, MICHIGAN 49058

PROPOSED LAYOUT PLAN

DRAWN BY: TJT 01/23

Sheet No.: C1



Description per Reynolds survey, No.: 13238 dated Dec. 24 2013:
Part of Lots 438, 439 and 440 of the original Plat of the Village of Hastings, Michigan, according to the recorded plat thereof, being more particularly described as follows: Beginning at the Northwest corner of said Lot 438, said Northwest corner being the intersection of the east line of Jefferson street and the South line of a Railroad Right-of-Way and the North line of said Lots 438, 439 and 440 a distance of 138.30 feet; thence S00°03'40"E 107.50 feet to a point 24.5 North of the South line of said Lot 440; thence S89°45'W 138.30 feet to a point on the West line of said Lot 438, which lies N00°03'40"W 24.50 feet from the Southwest corner of said Lot 438; thence N00°03'40"W to the Place of Beginning.

Notes:
Bearings based the Reynolds survey, No.: 13238 dated Dec. 24 2013.

Utility structures visible on the ground surface have been located and shown per actual measurements.

No title work was furnished for this survey. A commitment for title insurance should be obtained in order to determine easements, restrictions and other covenants which may affect the property.

STATE OF MICHIGAN ★ CAMERON REID LEAR ★ License No. 4001067176 LICENSED PROFESSIONAL SURVEYOR

SCALE: 1" = 20'
1' CONTOUR INTERVAL

LEGEND

- ○ = IRON STAKE FOUND
- ● = IRON STAKE SET
- = MONUMENT
- = UTILITY POLE
- = LIGHT POLE
- = SIGN
- = STOP BOX
- = CATCH BASIN
- = MANHOLE
- = TELEPHONE BOX
- = BURIED TELEPHONE MARKER
- = FENCE LINE
- = OVERHEAD WIRES

TOPOGRAPHICAL SURVEY
RE: 125 N. JEFFERSON ST.
FOR: CITY OF HASTINGS
ATTN: TRAVIS TATE, PE
201 E. STATE ST.
HASTINGS, MI 49058
PART OF THE NW 1/4, SECTION 17, T3N, R8W, CITY OF HASTINGS, BARRY COUNTY, MICHIGAN

DATE	REVISION	BY

exxel engineering, Inc.
planners · engineers · surveyors
5252 Clyde Park, S.W. • Grand Rapids, MI 49509
Phone: (616) 531-3660 www.exxelengineering.com

DRAWN BY: JJS
APPROVED BY: CL
FILE NO.: S221461
PROJ. ENG.: -
PROJ. SURV.: CL
DATE: 6/9/2022
SHEET 2 of 5

T:\Public Services\Streets & Construction Division\Streets\Parking Lots\Lot 8 - 2022\LOT 8_Base_backup.dwg-TP-Hist

REVISIONS

1	PRELIM-08-17-22
2	BID-09-29-22
3	------
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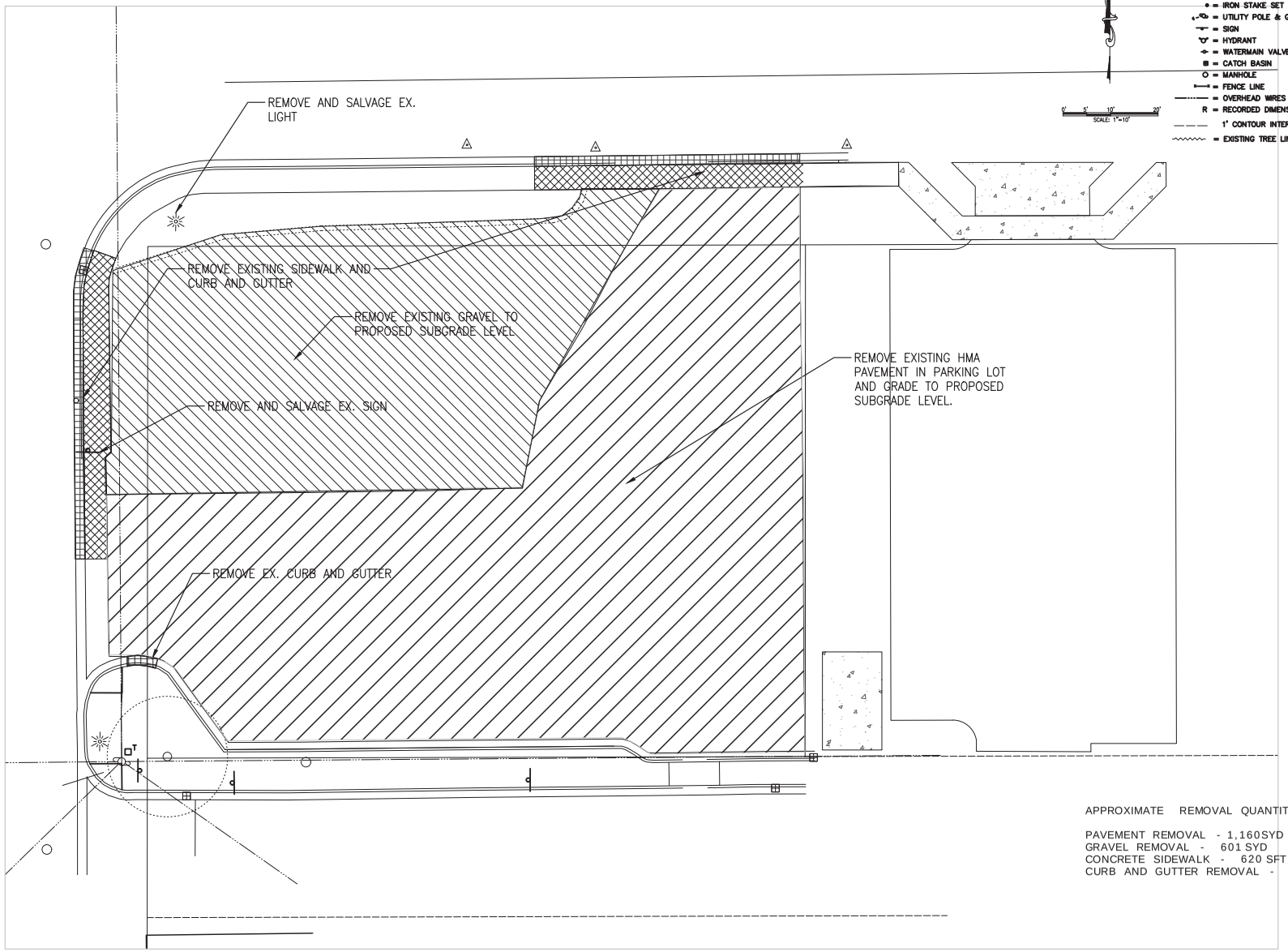
PROPOSED PARKING LOT 8 RECONSTRUCTION
125 N. JEFFERSON STREET
CITY OF HASTINGS
201 E. STATE STREET
HASTINGS, MICHIGAN 49058
EXISTING CONDITIONS

Sheet No.: C2



PROPOSED LOT 8 REMOVAL

SCALE: 1" = 10'

APPROXIMATE REMOVAL QUANTITIES THIS SHEET

PAVEMENT REMOVAL - 1,160SYD
GRAVEL REMOVAL - 601 SYD
CONCRETE SIDEWALK - 620 SFT
CURB AND GUTTER REMOVAL - 130 LF

STATE OF MICHIGAN
TRAVIS JAY TATE
ENGINEER
PROFESSIONAL ENGINEER

REVISIONS	
1	BID 07-13-23
2	
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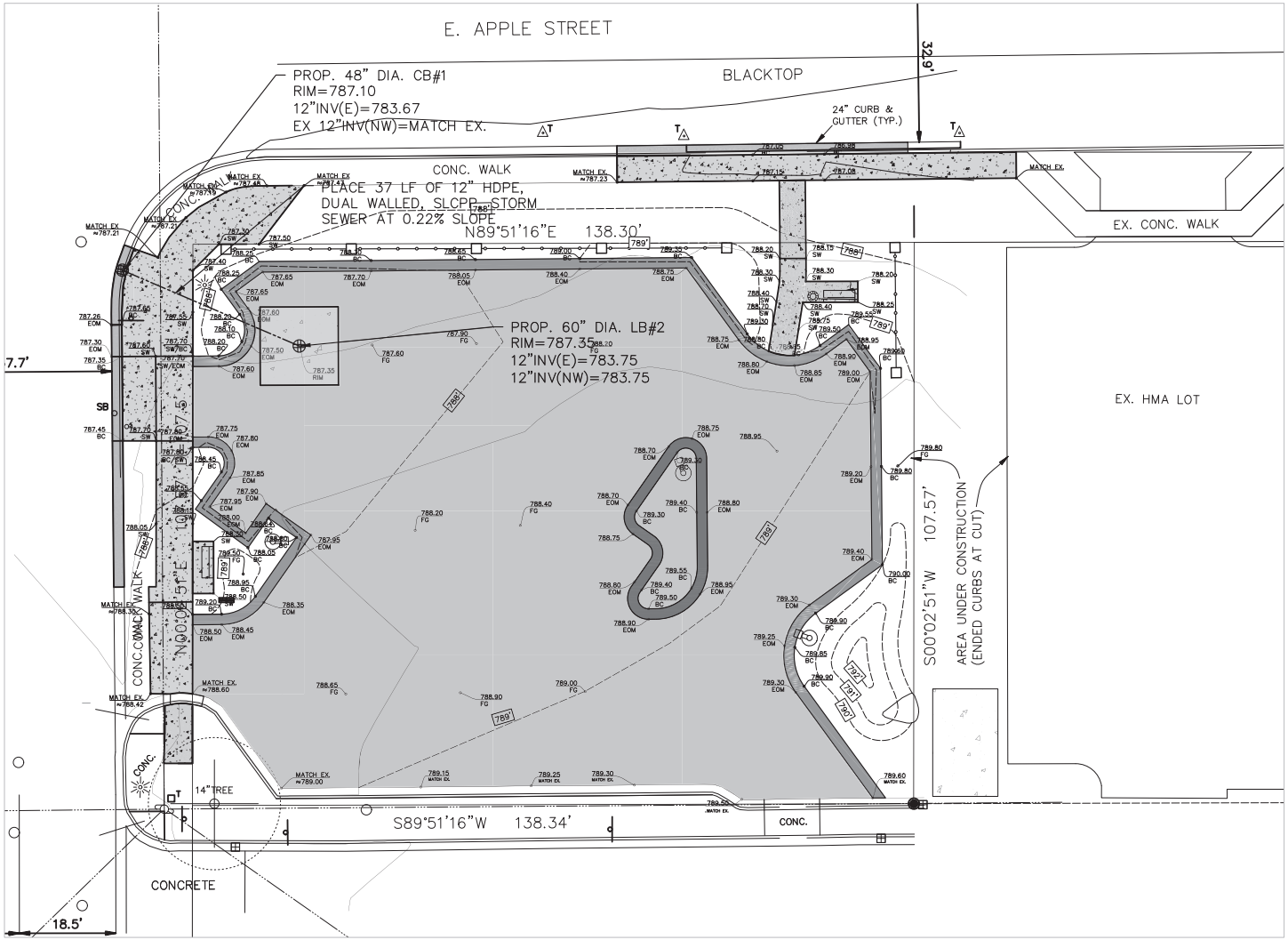
PROPOSED PARKING LOT 8 RECONSTRUCTION
125 N. JEFFERSON STREET
CITY OF HASTINGS
201 E. STATE STREET
HASTINGS, MICHIGAN 49058

REMOVAL PLAN

Sheet No.:
C3



LEGEND

- IRON STAKE FOUND
- IRON STAKE SET
- UTILITY POLE & GUY WIRE
- SIGN
- HYDRANT
- WATERMAIN VALVE
- CATCH BASIN
- MANHOLE
- FENCE LINE
- OVERHEAD WIRES
- R = RECORDED DIMENSION
- 1' CONTOUR INTERVAL
- EXISTING TREE LINE

0' 5' 10' 20'
SCALE: 1"=10'

PROPOSED LOT 8 GRADING AND STORM SEWER PLAN

SCALE: 1" = 10'

REVISIONS

1	BID 07-17-23
2	
3	
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5	

PROPOSED PARKING LOT & RECONSTRUCTION
125 N. JEFFERSON STREET
201 E. GRAHAM STREET
HASTINGS, MICHIGAN 49058

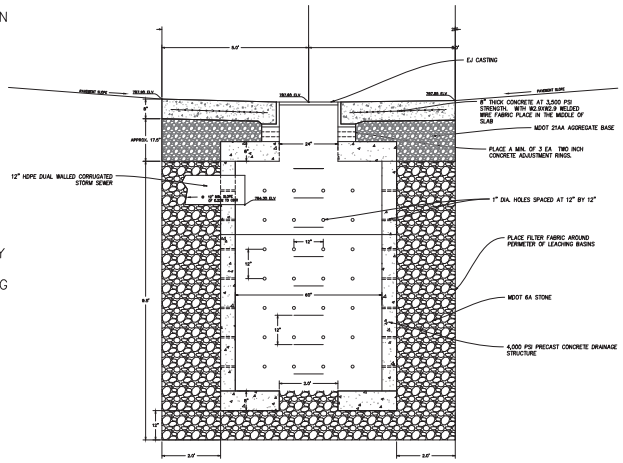
PROPOSED GRADING & STORM SEWER PLAN

STATE OF MICHIGAN
TRAVIS JAY TATE
ENGINEER
PROFESSIONAL ENGINEER

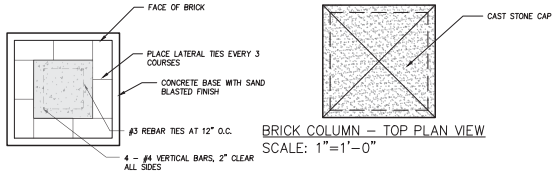
Sheet No.:
C4

GENERAL NOTES:

1. EXISTING UTILITIES SHOWN ARE FROM RECORD PLANS AND EVIDENCE IN THE FIELD. NO GUARANTEE IS MADE FOR ACCURACY OR THAT THE UTILITIES SHOWN ARE THE ONLY IN THE AREA. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FOUND ARE TO BE BROUGHT TO ENGINEER'S AND DIRECTOR OF PUBLIC SERVICES ATTENTION PRIOR TO COMMENCEMENT OR CONTINUATION OR CONTINUATION OF CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES IN A MANNER TO MINIMIZE INCONVENIENCE TO ADJACENT BUSINESS AND RESIDENCE.S.
3. ALL CONSTRUCTION METHODS AND MATERIALS SHALL COMPLY WITH CURRENT CITY OF HASTINGS AND CURRENT MDOT STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS HAVE BEEN ISSUED.
4. CONSTRUCTION TRAFFIC SHALL BE MINIMIZED ON ANY NEW PAVEMENT. THE CONTRACTOR SHALL REPAIR ANY DAMAGE OR FAILURE CAUSED BY CONSTRUCTION ACTIVITIES, AS WELL AS REPAIR ANY DAMAGE OR FAILURE CAUSED BY CONSTRUCTION ACTIVITIES, AS WELL AS REPAIRING LOAD DAMAGE ON THE EXISTING PAVEMENT SYSTEM TO THE SATISFACTION OF THE ENGINEER AND DIRECTOR OF PUBLIC SERVICES.
5. ALL CONSTRUCTION ACTIVITIES SHALL BE STAKED AND GRADED UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
6. STORM SEWER PIPE SHALL CONFORM TO THE CITY OF HASTINGS STANDARDS, UNLESS APPROVED BY THE DIRECTOR OF PUBLIC SERVICES.
7. A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE CONTRACTED TO MONITOR EARTHWORK & PAVING ACTIVITIES.
8. STORMWATER SHALL BE COLLECTED AND DISCHARGED TO THE CITY OF HASTINGS STORM SEWER SYSTEM.
9. CONTRACTOR SHALL BE REQUIRED TO PROVIDE CLEAN–UP OPERATIONS ALONG & ON ANY ADJACENT PAVED SURFACE WHERE DIRT AND/OR RELATED WORK AS A MINIMUM CLEANUP WILL BE DONE ON A DAILY BASIS.
10. ALL DISTURBED AREAS TO BE SEEDED WITHIN 5 CALENDAR DAYS OF ACHIEVING FINAL GRADE.

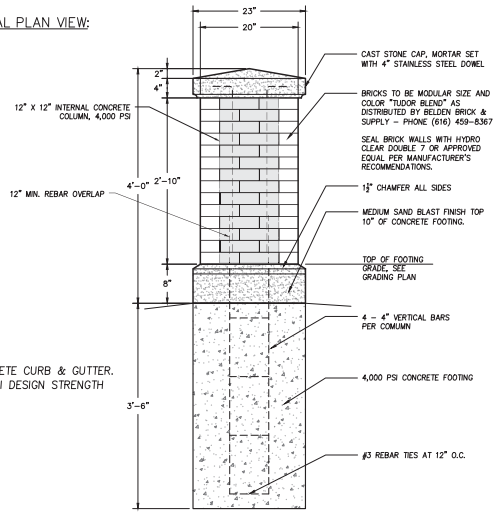


5' DIA. LEACHING BASIN SECTION:
SCALE: 1"=0'–6"

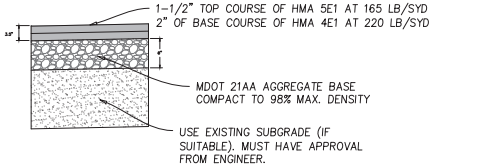


BRICK COLUMN – TOP PLAN VIEW
SCALE: 1"=1'–0"

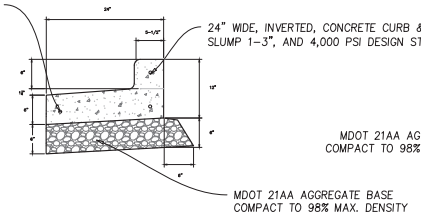
BRICK COLUMN – INTERNAL PLAN VIEW:
SCALE: 1"=1'–0"



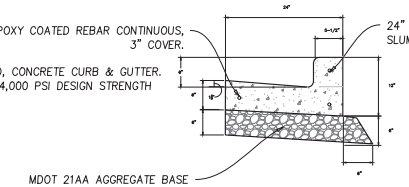
BRICK COLUMN – CROSS SECTION DETAIL:
SCALE: 1"=1'–0"



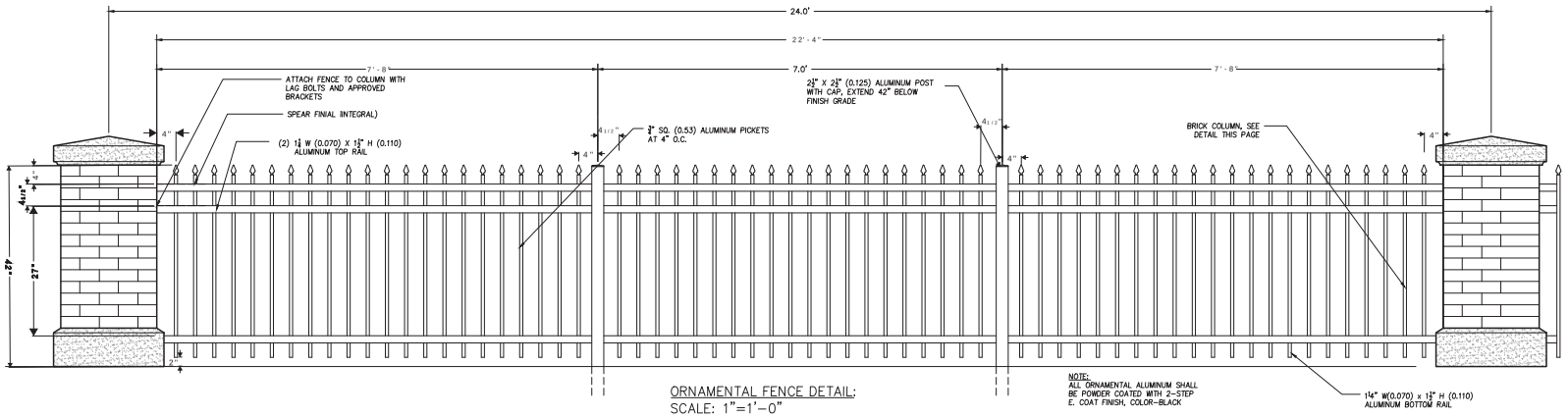
PAVEMENT CROSS SECTION:
SCALE: 1"=1'–0"



24" INVERTED CURB & GUTTER:
SCALE: 1"=1'–0"



24" CURB & GUTTER:
SCALE: 1"=1'–0"



NOTE:
ALL ORNAMENTAL ALUMINUM SHALL BE POWDER COATED WITH 2-STEP E. COAT FINISH, COLOR–BLACK

ORNAMENTAL FENCE DETAIL:
SCALE: 1"=1'–0"

REVISIONS

1	BID 07–17–23
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PROPOSED PARKING LOT & RECONSTRUCTION
125 N. JEFFERSON STREET
201 & 211 W. STATE STREET
HASTINGS, MICHIGAN 49058
DETAIL SHEET

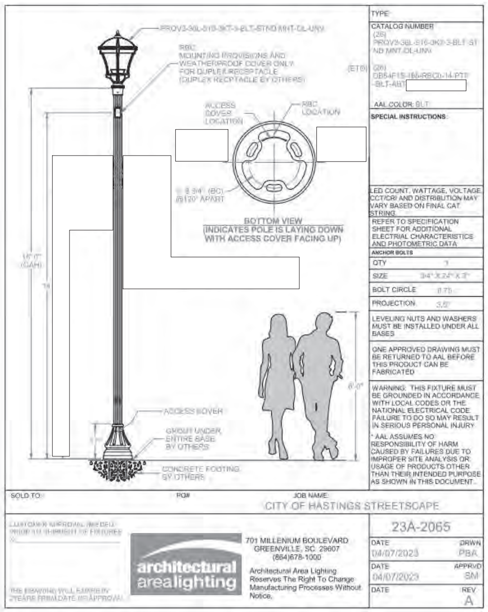
STATE OF MICHIGAN
TRAVIS JAY TATE
ENGINEER
PROFESSIONAL ENGINEER

Sheet No.:
C5

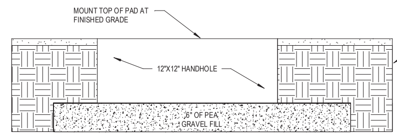
LIGHT FIXTURE SCHEDULE

ID	MANUFACTURER	MODEL NO.	VOLTAGE	REQUIRED LAMPS			DESCRIPTION	NOTES
				QTY	WATT	TYPE		
SA	CURRENT	OWNER PROVIDED POLE AND LIGHT FIXTURE	MVOLT	1	45 W	LED	NEW OWNER PROVIDED POLE AND LIGHT.	NOTE 1
SB	EXIST.	EXISTING RELOCATED POLE AND FIXTURE	MVOLT	1	38 W	LED BULB	EXISTING POLE TOP FIXTURE, RELOCATED	NOTE 1

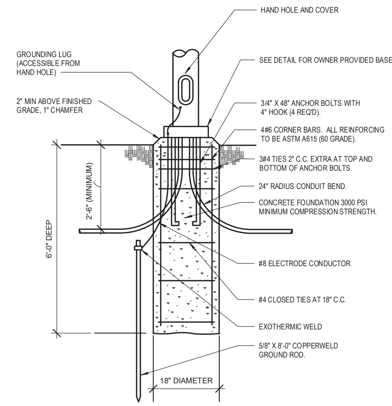
NOTE 1: CONTRACTOR TO PROVIDE AND INSTALL NEW FUSING IN BOTTOM OF POLE



3 E1.0 **OWNER PROVIDED POLE (TYP.)**
NOT TO SCALE



2 E1.0 **HANDHOLE DETAIL (TYPICAL)**
NOT TO SCALE



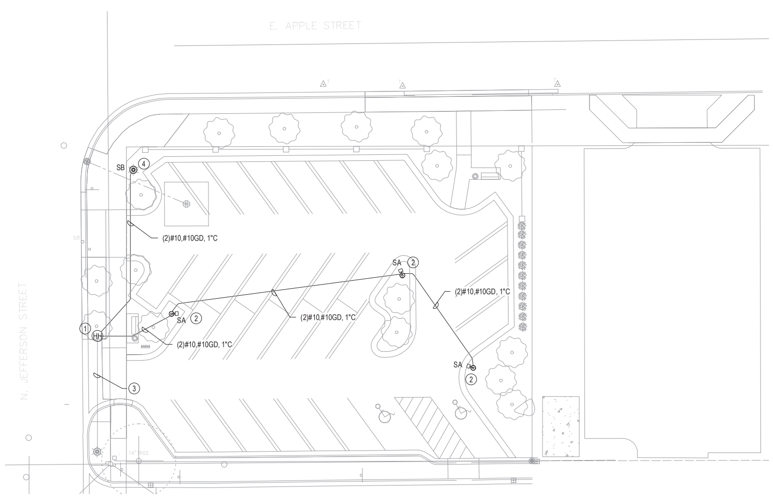
1 E1.0 **GROUNDING AND BONDING DETAIL (TYPICAL)**
SCALE = 3/16" = 1'-0"

 # KEYNOTES

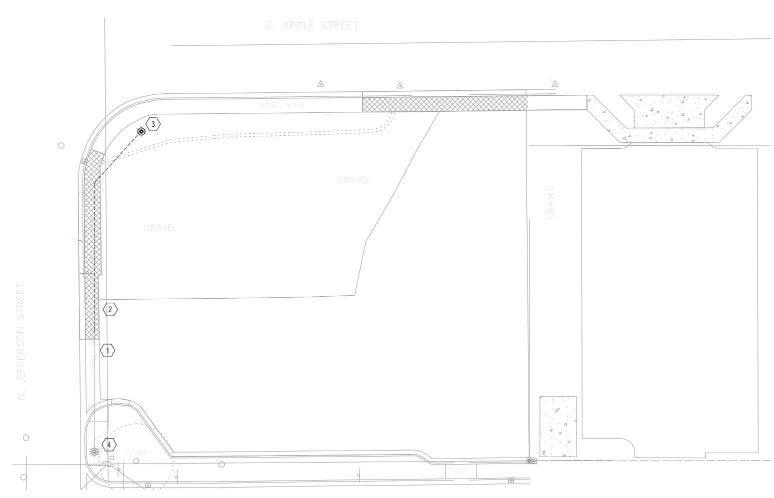
1. HANDHOLE IN LANDSCAPE AREA. FIELD VERIFY AND COORDINATE LOCATION IN FIELD WITH EXISTING LOCATION.
2. NEW OWNER PROVIDED POLE AND LIGHT FIXTURE. CONTRACTOR TO INSTALL POLE/ FIXTURE. CONTRACTOR TO PROVIDE POLE BASE AND FUSING.
3. REFEED EXISTING WITH (2)#10,#10GD AND FEED BACK TO EXISTING POLE.
4. RELOCATED EXISTING POLE FIXTURE. PROVIDE WITH NEW POLE BASE, SEE DETAIL.

 # DEMOLITION KEYNOTES:

1. MAINTAIN EXISTING SECTION OF CONDUIT FROM EXISTING LIGHT. FIELD VERIFY AND COORDINATE LOCATION FOR NEW HANDHOLE.
2. REMOVE EXISTING CONDUIT SECTION AND BRANCH CIRCUIT BETWEEN LIGHT FIXTURES.
3. REMOVE EXISTING POLE LIGHT AND BASE. CLEAN AND STORE FOR REINSTALLATION.
4. EXISTING LIGHT FIXTURE TO REMAIN.



SITE PLAN - ELECTRICAL
SCALE: 1" = 20'-0"



SITE PLAN - ELECTRICAL DEMOLITION
SCALE: 1" = 20'-0"

PROPOSED PARKING LOT 8 RECONSTRUCTION
125 N. JEFFERSON STREET
CITY OF HASTINGS

SITE PLAN - ELECTRICAL

Drawn	SOF
Checked	SOF
Scale	As indicated
Date	07.18.2023

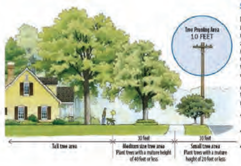
Rev.	Description	Date	By

STATE OF MICHIGAN SCOTT D. FLOYD

CLARK TROMBLEY RANDERS
CONSULTING ENGINEERS
504 S. Creyts Rd. Suite B Lansing, MI
131 S. Main St. Mt Pleasant, MI
2828 Kraft Ave. SE Suite 149 Grand Rapids, MI
(517) 886-0550 www.ctrmep.com

Job 22428.00
Sheet E1.0

7/27/2023 9:13:43 AM 22428.00 CITY OF HASTINGS PROPOSED PARKING LOT 8 RECONSTRUCTION

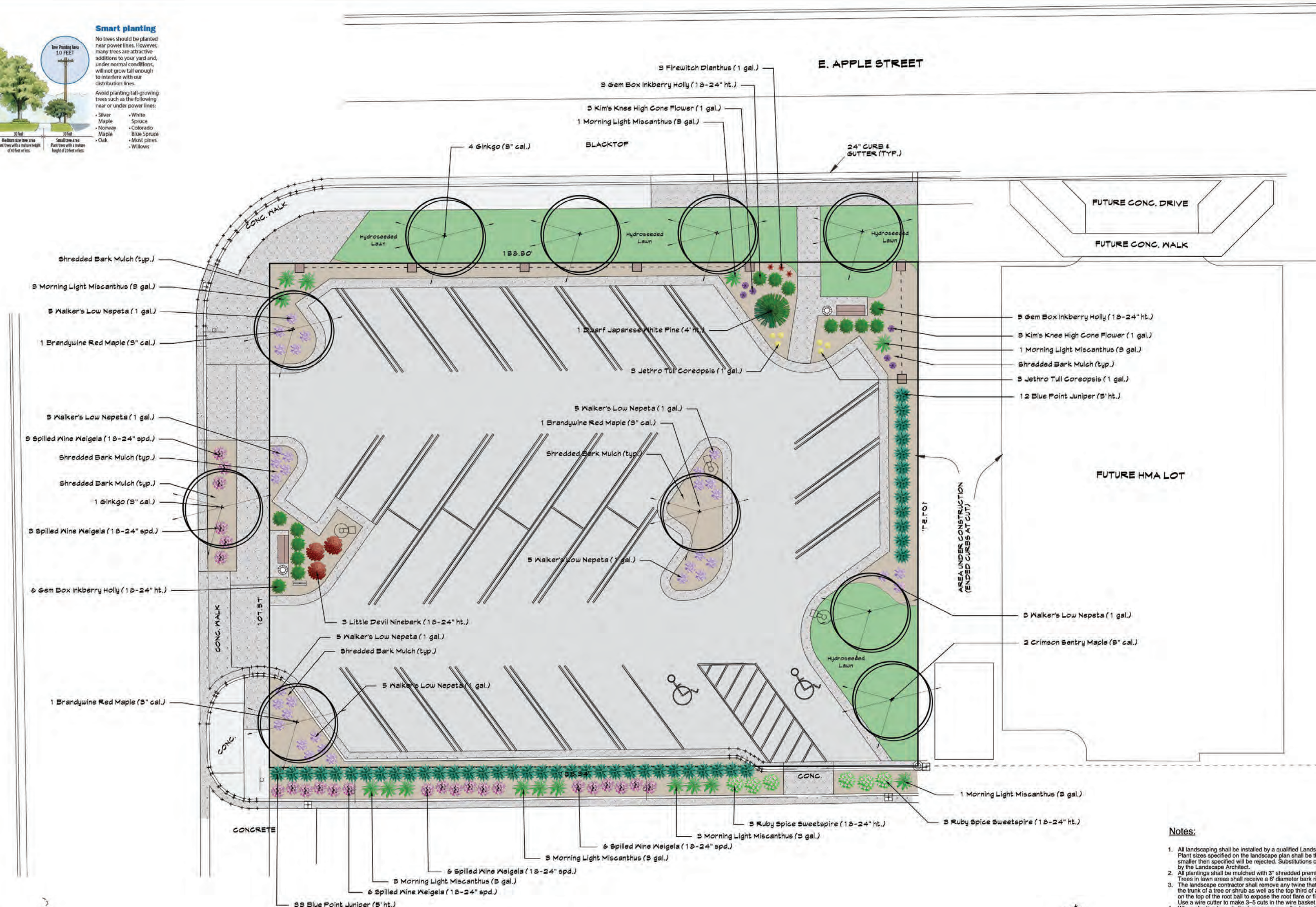


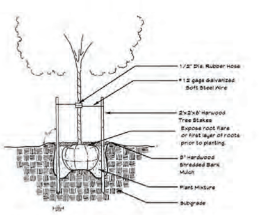
Smart planting

No trees should be planted near power lines. However, many trees are attractive additions to your yard and, under normal conditions, will not grow tall enough to interfere with our distribution lines.

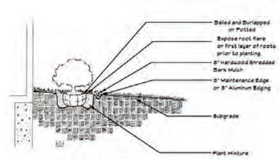
Avoid planting tall-growing trees such as the following near or under power lines:

- Silver Maple
- Norway Maple
- Oak
- White Spruce
- Colorado Blue Spruce
- Most pines
- Willows

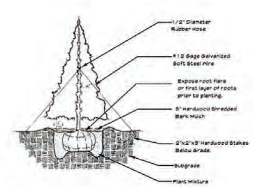




Deciduous Trees 3" Caliper and Smaller



Shrub Planting Detail



Evergreen Planting Detail-5' and Taller

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

Notes:

1. All landscaping shall be installed by a qualified Landscape Contractor. Plant sizes specified on the landscape plan shall be the size planted. Plants smaller then specified will be rejected. Substitutions of any kind must be approved by the Landscape Architect.
2. All plantings shall be mulched with 3" shredded premium hardwood bark mulch. Trees in lawn areas shall receive a 6' diameter bark ring 3" deep..
3. The landscape contractor shall remove any twine that is wrapped around the trunk of a tree or shrub as well as the top third of any burlap. Remove excess soil on the top of the root ball to expose the root flare or first layer of roots prior to planting. Use a wire cutter to make 3–5 cuts in the wire basket to allow roots to grow through.
4. When planting trees in the lawn area or on the berm the existing soil within a 10 foot diameter shall be loosened by tilling or similar and amended with composted manure or peat at a depth of 6–12".
5. Planting areas shall be edged with a mechanical bed edger to define a border for the shedded bark mulch.
6. Parking Islands shall be back filled with at least 24" of topsoil. Amend the topsoil with composted manure and mix into the topsoil at a depth of 6–12". Any aggregate or stone from the construction of the parking lot shall be removed prior to backfill.
7. Lawn areas shall recieve at least 4" of topsoil and hydroseeded. Check with specifications for topsoil availability or contact project manager. Topsoil for lawns shall be appropriate for growing and sustaining a healthy lawn. All lawns shall be hydroseeded with a seed blend consisting of 30% Kentucky Bluegrass, 20% Perennial Ryegrass, 10% Hard Fescue, 20% Creeping Red Fescue and 20% Chewings Fescue.
8. Maintenance of the landscape shall be provided for by the owner and include fertilizing of lawn and plant material, yearly pruning, top dressing of mulch areas every other year and provide 1" of water per week during the growing season.
9. Plant materials shall be chosen and installed in accordance with standards recommended by the County Cooperative Extension Service or American Nursery Association.

Design Scapes
Residential and Commercial Landscape Design

STATE OF MICHIGAN · JOYCE E. WEISE · LANDSCAPE ARCHITECT · No. 1202 · LICENSED LANDSCAPE ARCHITECT

Landscape Plan Drawn By:
Joyce E. Weise PLA, ASLA

PROPOSED LANDSCAPE PLAN FOR:

Proposed Parking Lot 8

125 N. Jefferson Street Hastings, Michigan

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

PROJECT NUMBER:	090222
DRAWN BY:	Joyce E. Weise PLA, ASLA
DRAWING DATE:	101422
ISSUED FOR:	10/18/22 Site Plan Approval; 07/28/23 Revision
SCALE	1"=10'
SHEET NUMBER	L-1

Emergency Services

Emergency Services		2025	2026	2027	2028	2029	2030	Total
PD-1	Patrol Vehicle Replacement (#41)					60,000		60,000
PD-2	Patrol Vehicle Replacement (#43)					60,000		60,000
PD-3	Patrol Vehicle Replacement (#42)			55,000				55,000
PD-4	Patrol Vehicle Replacement (#47)			55,000				55,000
PD-5	Duty Weapon Replacement		11,000					11,000
PD-6	Radar Trailer Replacement		15,000					15,000
PD-7	Replacement of Police Chief's Vehicle	65,000						65,000
PD-8	Police Department Workspace Update	45,000						45,000
PD-9	Enclosed Trailer	15,000						15,000
F-1	Replacement Nozzles	3,222	3,800	3,800	3,800			14,622
F-2	Chain Saws	3,365	3,100	3,100				9,565
F-4	Fire Fighting Hose		16,000					16,000
F-5	Turnout Gear (4 sets annually)	13,600	13,600	13,600	13,600	13,600	13,600	81,600
F-6	800 Radios	23,000	7,000	3,500				33,500
F-7	CPR chest compressor				26,000			26,000
F-8	Engine Replacement (832) BIRCH OWNED	565,000						565,000
F-9	Aerial Replacement (836)					1,900,000		1,900,000
ES-1	Emergency Services Building Construction				12,000,000			12,000,000
Total Emergency Services		733,187	69,500	134,000	12,043,400	2,033,600	13,600	15,027,287

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Patrol Cars #41 and #43

Project ID #: _____ CIP ID #: PD-1 and PD-2

Department: Police Anticipated Start Date: 07/2028

Date Prepared: 01/09/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Purchase of two new Ford SUV AWD Police Interceptors to replace patrol vehicles number 47 and 43. Includes transfer of all emergency equipment.

Project Need: Provide a brief explanation of why the project is necessary.

To maintain a safe and reliable fleet of patrol vehicles while keeping the cost of maintenance to a minimum.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 120,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Sale of retired vehicles

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Patrol Cars #42 and #47

Project ID #: _____ CIP ID #: PD-3 and PD-4

Department: Police Anticipated Start Date: 07/2026

Date Prepared: 01/09/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Purchase of two new Ford SUV AWD Police Interceptors to replace patrol vehicle number 42 and 41. Includes transfer of all emergency equipment

Project Need: Provide a brief explanation of why the project is necessary.

To maintain a safe and reliable fleet of patrol vehicles while keeping the cost of maintenance to a minimum.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 110,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

Sale of retired vehicles

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Duty Sidearm

Project ID #: _____ CIP ID #: PD-5

Department: Police Anticipated Start Date: 07/2025

Date Prepared: 01/25/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of all 20 Glock .40 caliber duty sidearms.

Project Need: Provide a brief explanation of why the project is necessary.

Duty weapons are the primary defense against active aggression towards officers and the public. The duty weapons we carry are exposed to all types of conditions from rain, snow, dirt and debris, and firing hundreds if not thousands of rounds of ammunition over their lifespan. The general rule of thumb is replacement of the sidearms every 7-10 years. The sidearms currently being carried by officers have been in service since 2014. The guns are approaching their end of law enforcement service life and should be replaced.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 11,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General fund
proceeds from trade in of current guns

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Radar trailer

Project ID #: _____ CIP ID #: PD-6

Department: Police Anticipated Start Date: 07/2025

Date Prepared: 01/25/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Purchase of new radar speed monitoring trailer

Project Need: Provide a brief explanation of why the project is necessary.

The current radar trailer is over twenty years old and repair costs are beginning to exceed the value of the unit. The unit is currently out of service requiring it to be serviced. New units have several different modes of use and could be used in different situations other than just monitoring speed.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

unknown

Project Cost: $ 15,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Chief's Vehicle

Project ID #: _____ CIP ID #: PD-7

Department: Police Anticipated Start Date: 07/2024

Date Prepared: 01/09/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of existing vehicle (2018 Ford Taurus) with a Ford F150 4x4 extended cab pickup truck. Will include transfer of all emergency lighting and other equipment. Current Chiefs vehicle will be rotated to the Deputy Chief, Current Deputy Chiefs Vehicle will be rotated to the School Resource Officer.

Project Need: Provide a brief explanation of why the project is necessary.

To maintain a safe and reliable fleet of vehicles while keeping the cost of maintenance to a minimum. The purchase of a truck as the chief's vehicle in order to facilitate hauling of items that are not able to be placed in the patrol SUVs. Also to enable hauling items associated with training and events occurring within the City.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Prior CIP

Does the project share space or overlap with other CIP projects? Please describe.

no

Project Cost: $ 65,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Sale of Dodge Charger

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Police Department Workspace Update

Project ID #: _____ CIP ID #: PD-8

Department: Police Anticipated Start Date: 07/2024

Date Prepared: 01/25/2024

Project Description: Provide a brief physical description of the project. Please be specific.

This project is being requested to promote a suitable working environment for staff and the citizens we serve. The front reception area is original to the the police department when it was moved in 1997-98. We have added equipment over the past 25 years causing work stations to be crowded and outdated. The structure of the front desk area is inadequate for present operational needs. New work station desks are needed in the patrol room and sergeant's office. The desk were used items 25 years ago and are covered with tape to prevent wood slivers and being held together with tape and screws. The patrol room area is too small leaving officers having to find an area to use when speaking with citizens. I believe we would be able to utilize some unused space to accommodate some of our spacing issues. Moving a couple walls and establishing a new interior design would allow us to continue to grow. Currently we have no space to process evidence. Purchase of all new thermal type window blinds to help regulate the temperature inside the office. In order to make changes to the interior of the PD, architectural consulting would likely be necessary.

Project Need: Provide a brief explanation of why the project is necessary.

PD has outgrown the space originally provided.
Work stations are inadequate and not suitable for staff ergonomics.
Heating/cooling system can not keep up with demands due to leakage of outside air through old windows.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

Potentially aligned with other City Hall Building Improvements

Project Cost: $ 45,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark “guesstimate”

Potential Funding Sources:

General fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Purchase of Enclosed Trailer

Project ID #: _____ CIP ID #: PD-9

Department: Police Anticipated Start Date: 07/2024

Date Prepared: 01/25/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Purchase of enclosed trailer

Project Need: Provide a brief explanation of why the project is necessary.

The PD was part of the Barry County Training Consortium (BCTC) that disbanded several years ago. The PD was able to store equipment in a building at the Barry County Conservation Club associated with firearms training. This building is no longer property of the BCTC. We need a place to put shooting stands and equipment for firearms training while still being able to transport it to areas when used. The trailer would be used to store our training equipment, and could also be used for events put on by or attended by the PD. We are out of room in our garage and office for storage, so the addition of the enclosed trailer would benefit us tremendously with storage, transportation, and public relation type events.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

Unknown

Project Cost: $ 15,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement Nozzles

Project ID #: _____ CIP ID #: F-1

Department: Fire Anticipated Start Date: 10/2024

Date Prepared: 01/09/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replace nine, 1.5 inch firefighting nozzles.

Replace 2 nozzles FY25, then spread remainder out though 2028

Project Need: Provide a brief explanation of why the project is necessary.

Properly functioning nozzles are a must when fighting fires to provide adequate water supply in any circumstance. The current nozzles are old and do not have the modem pistol grips needed to aid in fire fighting. The department's most recent nozzle purchase was in early 2000.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 14,500.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Chain Saw Replacement & Ventilation Saw Purchase

Project ID #: _____ CIP ID #: F-2

Department: Fire Anticipated Start Date: 07/2024

Date Prepared: 09/02/2024

Project Description: Provide a brief physical description of the project. Please be specific.

1 new K12 roof ventilation saw ($2,500)
Replacement of six chainsaws 1 chainsaw $865 2024/25, then $3,162 annually

Project Need: Provide a brief explanation of why the project is necessary.

The department does not own a K12 ventilation saw that is required by NFPA. The chain saws we have are very old (purchased in the early 2000s) and they do not have compression release making them hard to start quickly. The new saws will start more reliably when needed in an emergency.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $9,565.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Fire Fighting Hose

Project ID #: 15 CIP ID #: F9

Department: Fire Anticipated Start Date: 07/2025

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement fighter fighting hose

Project Need: Provide a brief explanation of why the project is necessary.

A large amount of our hose is in excess of 15/20 years old. Planning to start upgrading hose is critical . The goal will be to replace 1000ft annually.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No

Does the project share space or overlap with other CIP projects? Please describe.

No

Project Cost: $ 16,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Turnout Gear/PPE Replacements

Project ID #: _____ CIP ID #: F-5

Department: Fire Anticipated Start Date: 10/2024

Date Prepared: 01/11/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replace four sets of turn out gear annually (13,600/yr)

Project Need: Provide a brief explanation of why the project is necessary.

Turn out gear must be replaced every ten years. We need to continue replacing about four sets each year to replace aging gear and to accomodate new department members. Cost estimate is based on last year's purchase plus ten percent increase.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $81,600.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: 800 Radios (18 units, mobile & portable)

Project ID #: _____ CIP ID #: F-6

Department: Fire Anticipated Start Date: 07/2024

Date Prepared: 01/09/2024

Project Description: Provide a brief physical description of the project. Please be specific.

7 Mobile Truck 800 Mhz radio to be spread out over 3 years ($3,500/each, plus install and programming cost).
6 Portable 800 MHz radios to be purchased in 24/25 ($2,500/each, plus programming).

Project Need: Provide a brief explanation of why the project is necessary.

Only one truck-mounted mobile radio has been purchased since 2017. All current radios are on the end of life list with the state by the end of December 2024. The goal is for the department to be 100% 800 MHz by September 2024 including installation and programming.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $33,500.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Grant Funds if Available

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: CPR Chest Compressor

Project ID #: _____ CIP ID #: F7

Department: Fire Anticipated Start Date: 08/2027

Date Prepared: 02/16/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of the CPR Chest Compressor by 2027.

Project Need: Provide a brief explanation of why the project is necessary.

The current chest compressor was purchased in 2022 with a recommend life span of 5-6 years. By 2027, it will be time to replace with a newer model (estimated cost is based on today's pricing plus 6%).

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 26,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
Grants

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Engine Replacement (BIRCH)

Project ID #: _____ CIP ID #: F-8

Department: Fire Anticipated Start Date: 11/2024

Date Prepared: 01/24/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of 1999 Freightliner (832). This engine will be 25 years old which is when truck replacement is recommended by the NFPA.

Project Need: Provide a brief explanation of why the project is necessary.

This engine was purchased in 1999 and will be 25 years old. We intend to replace it with a 2024/2025 commercial cab similar to our purchase of the 2023 Freightliner. The new engine will have a 1500 GPM pump and 1000 gallon tank.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 565,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

BIRCH truck fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Aerial Replacement (836)

Project ID #: _____ CIP ID #: F-9

Department: Fire Anticipated Start Date: 09/2028

Date Prepared: 01/24/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of 1999 Aerial/Platform (City Owned). This is a timely and extensive project starting with design and implantation. The current lead time on an aerial is in excess of 18 months from start of the build.

Project Need: Provide a brief explanation of why the project is necessary.

The current aerial was purchased in 1999 and will be 30 years old at time of replacement. NFPA recommends replacement at 25 years. We have spent significant money on the current aerial and as it continues to age, the maintenance and repair costs will continue to escalate. The current truck is also lacking updated technology for fire personnel safety and speed to deployment.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 1,900,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

BIRCH truck fund
General Fund

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Emergency Services Building Construction

Project ID #: _____ CIP ID #: ES-1

Department: Fire Anticipated Start Date: 07/2027

Date Prepared: 03/06/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of Fire Barn with new fire station.

Project Need: Provide a brief explanation of why the project is necessary.

The existing fire barn is in dire need of replacement. The facility is too small and new apparatus are unable to fit in the facility. A new facility is needed to house modern equipment and provide efficient service.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 12,000,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

General Fund
USDA Loan
Special Assessment Millage

List of Attachments (quotes, photos, etc.):

Equipment/Motor Pool

Equipment/Motor Pool		2025	2026	2027	2028	2029	2030	Total
MP-1	Superintendent Vehicle (#20)	62,000	65,100	68,355	71,773	75,361	79,129	421,719
MP-2	Superintendent Vehicle (#30)	62,000	65,100	68,355	71,773	75,361	79,129	421,719
MP-3	Dust control attachment for swap loader truck					40,000		40,000
MP-4	3-sided storage bldg					75,000		75,000
MP-5	Front End Loader (#220)		265,000					265,000
MP-6	Service Truck (#40)	90,000						90,000
MP-7	Dump Truck Replacement (#130)	210,000						210,000
MP-10	John Park Mower Replacement (#300)		55,000					55,000
MP-11	C-7500 2000 GMC Replacement (#120)	185,000						185,000
MP-12	2014 International Dump Truck (#140)	185,000						185,000
MP-13	International Sweeper 2018 (#270)		395,000					395,000
MP-14	Cat Skid Steer 2014 (#430)					135,000		135,000
MP-15	Salt Spreader Replacement 6.9 yds (#62)	30,000						30,000
MP-16	Salt Spreader Replacement 6.9 yds (#92)	30,000						30,000
MP-17	Vactor Truck Replacement (#240)			575,000				575,000
MP-18	Pull behind Air Compressor (#160)	20,000						20,000
MP-19	Front End Loader (#250)				325,000			325,000
MP-20	Excavator Replacement (#180)				265,000			265,000
Total Equipment/Motor Pool		874,000	845,200	711,710	733,546	400,723	158,259	3,723,437

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: DPS Superintendent Vehicle #20

Project ID #: _____ CIP ID #: MP-1

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 12/28/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Supervisor vehicle for transportation

Project Need: Provide a brief explanation of why the project is necessary.

Vehicle on replacement program (if selected)

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $62,000.00 (First Year)

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Vehicle is on replacement program - sale of existing vehicle planned to pay for new vehicle.

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: DPS Superintendent Vehicle #30

Project ID #: _____ CIP ID #: MP-2

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 12/27/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Supervisor vehicle for transportation

Project Need: Provide a brief explanation of why the project is necessary.

Vehicle on replacement program (if selected)

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $62,000.00 (First Year)

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Vehicle is on replacement program - sale of existing vehicle planned to pay for new vehicle.

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Dust Control Attachment to Swap Loader Truck

Project ID #: _____ CIP ID #: MP-3

Department: Public Services Anticipated Start Date: 07/2028

Date Prepared: 02/13/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Install CS630 Three-Channel Spreader Controller, new hydraulic components and plumbing, supply and install Monroe skid mounted single lane dust control unit.

Project Need: Provide a brief explanation of why the project is necessary.

Allows for dust control for gravel roads on an as needed basis, instead of depending on contractors to provide dust control at their schedule. This will pay for itself over time by using own staff and equipment instead of contractor. Public using the gravel roads should encounter less dust and improve quality of life.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

No.

Does the project share space or overlap with other CIP projects? Please describe.

No.

Project Cost: $ 40,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund or Streets

List of Attachments (quotes, photos, etc.):

Truck and Trailer Specialties Quote 11/29/23

Truck & Trailer Specialties

3286 Hanna Lake Ind. Park Dr.
Dutton, MI. 49316
Phone 616-698-8215, Fax 616-698-0972

City of Hastings
Attn: Rob Neil
Phone: 269-838-8395
November 29, 2023

Equipment Quotation DQO004577

Chassis info: 2023 S/A International HV507 SFA, VIN # 3HAEDTAR7PL677645,
Swap Loader Model SL2418

Truck & Trailer Specialties to complete the following:

Install CS630 three-channel spreader controller including the following:

- Remove existing CS420 two-channel spreader controller and install new CS630
- 5.5" organic LED display
- On-screen display of storm and season totals
- 3 frequency inputs (ground speed, conveyor, and liquid)
- 3 proportional, current compensated PWM outputs (programable dither frequency) for spinner, conveyor, and liquid
- 2 digital outputs (reverse, air gate, GS12V)
- USB key or password-protected calibration value
- Operating parameters and event data can be retrieved by a USB memory stick
- Automatic nulling and material calibration (with closed loop version only)
- Set up for closed loop
- Remote pause/blast, with adjustable blast setting
- Solenoid and cable failure detection
- Firmware upgradable via USB

Install new Hydraulic components/plumbing to include the following:

- Utilize existing conveyor valve section for use with dust control including:
  - Add an electric proportional coil to existing conveyor valve section, both coils/cables to be labeled for function
  - Both coils on conveyor section to be left unplugged by T&T
  - **City of Hasting to plug in either the dust control coil, <u>OR</u> conveyor coil on the valve at time of use, and to disconnect said coil wiring when attachment is unloaded to prevent accidental circuit activation when not in use**
- Fabricate and install stainless steel mounting plate at rear side of combo tank for use with housing hydraulic couplers and electrical plugs for use with non-dumping attachments
- Plumb Dust control, Conveyor, and Spinner hydraulic circuits to coupler mounting plate,
  - Stainless steel quick couplers to be installed for Dust control pressure and return circuits,
  - Conveyor and spinner lines to be capped off at coupler mounting plate for future use
- Install 7-way RV plug for non-dumping attachment body lighting at coupler mounting plate,
  - Wire jib shutoff into 7-way plug to disable the jib function when body lighting is plugged in
- Install feedback signal wiring for dust control with plug installed at the coupler mounting plate

Supply and install Monroe skid mounted single lane Dust Control unit including the following:

- 1,235gallon tank with center baffle system that is rated 1.7 specific gravity
- Tank includes 4 galvanized hoops and a 16" manhole dome cover with lanyards
- Hold down brackets on the street side to attach hydraulic plumbing and wiring
- Galvanized skid assembly with 54" hook height and front and 19" leg kit with rollers at rear
- Spray system includes a 2" full port electric ball valve

Boom valve shall open and close based on ground speed
Product pump is a 05008009 - 210 GPM Pentair Pump
Plumbing includes an in-line check valve
Dust control unit flow meter is Raven RFM 200
Dust control spray bar is 96 "wide 2" stainless steel pipe with 17 replaceable fan style nozzles
No boom busters are included
Hydraulic circuits plumbed to the rear of body in stainless steel pipe
Hydraulic circuits will be equipped with stainless quick connects and jumper hoses
Wiring for lights and flowmeter will be run down the side to a rear mounted junction box
Wiring for lights and flowmeter in the front of the body will include a 7-way plug
Two (2) stainless steel, two oval hole light boxes at rear, to house one each side:
Top position: SoundOff LED amber/green warning flashers
Bottom position: SoundOff LED stop/turn/taillights
No anti-ice components are included per City of Hastings

Above installed Price: $36,305.00 ea.

Credit for CS420 trade in.
Deduct $ 600.00

Lead time: 320 – 365 Days ARO

Payment Terms: Net 30

Pricing good for: 30 days

Thank you for the opportunity to quote.

Submitted by:
Chad Veenstra / Dan Bouwman

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Addition of Building at Compost Site

Project ID #: _____ CIP ID #: MP-4

Department: DPS Anticipated Start Date: 07/2028

Date Prepared: 01/19/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Three sided building with roof for Storage at Compost Facility approx 40x60

Project Need: Provide a brief explanation of why the project is necessary.

Currently the DPS has equipment stored out behind the DPS garage. If we add a building we can store multiple pieces of equipment and water appurtenances to keep them out of the elements as much. We currently have Approx. 80-100K in attachments out in the elements that would last longer if they were stored in a structure with a roof and sides

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 75,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☒ Ballpark "guesstimate"

Potential Funding Sources:

Equipment fund/Water fund

List of Attachments (quotes, photos, etc.):

Full Address (Street, State, Zip)

Pole Building Details

Send

Types Of 3-Sided Pole Buildings

There are actually three types of 3-sided pole barns. While they all function and appear very similar, they have different structural advantages. Essentially the main difference is the truss shape.

- **Lean-To 3 Sided Pole Barn:** This type of three-sided pole barn has the most "shed-like" appearance. Essentially the roof has a single angle and looks like an enclosed lean-to with the highest and largest eave wall open. This type of three-sided pole building is prevalent on small farms or as simple additional storage at townships.
- **Regular 3-Sided Pole Barn:** An ordinary three-sided pole barn is essentially a standard pole building with one wall completely open. Typically the one eave wall will be open, and the typical 8 foot spaced posts will be spaced 10-foot apart or more depending on the beams and headers used.
- **Modified Truss 3-Sided Pole Barn:** The modified three-sided pole building is one that stands out and is chosen by many businesses. Typically the truss has one side that is longer and at a shallow pitch, while the open side of the 3-sided pole building has a large overhang of the short side of the truss. The short side of the truss has a steep pitch and primarily serves to keep the weather from entering the structure.

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Front End Loader #220

Project ID #: _____ CIP ID #: MP-5

Department: DPS - Motor Pool Anticipated Start Date: 07/2025

Date Prepared: 12/28/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of 2008 Loader

Project Need: Provide a brief explanation of why the project is necessary.

Front end loader is used for loading material, picking up leaves, snow, and brush.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 265,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ■ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid for old equipment

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Truck 40 Service Truck

Project ID #: _____ CIP ID #: MP-6

Department: WWTP Anticipated Start Date: 07/2024

Date Prepared: 01/10/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replace 2012 Service Truck 40.

Project Need: Provide a brief explanation of why the project is necessary.

This truck is used in the township and city by the wastewater team for sampling and service. Truck 40 is aging and will begin to cost more in maintenance and upkeep.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 90,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid (est (6-10K)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of 6-yd dump truck #130

Project ID #: _____ CIP ID #: MP-7

Department: DPS - Motor Pool Anticipated Start Date: 07/2024

Date Prepared: 02/12/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of large dump truck with a side-wing, swap-loader, and underbody blade

Project Need: Provide a brief explanation of why the project is necessary.

This vehicle is aging and is difficult to find parts for when repairs are needed. This truck is used for leaf pickup, snow removal, and material hauling. This truck will be equipped with a sidewing and underbody plow

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 210,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ■ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / sealed bid (est 3-10K)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of John Park Mower #300

Project ID #: _____ CIP ID #: MP-10

Department: DPS - Motor Pool Anticipated Start Date: 07/2025

Date Prepared: 02/29/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of lawn mower used for roadside mowing

Project Need: Provide a brief explanation of why the project is necessary.

This mower is a 2010 and has approximately 3,000 hours. It is used for mowing roadside and city property that is not contracted out.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 55,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade In / Sealed Bid (est 1-5K)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of 2000 GMC C-7500 #120

Project ID #: _____ CIP ID #: MP-11

Department: DPS - Motor Pool Anticipated Start Date: 07/2024

Date Prepared: 12/27/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of 22 year old large dump truck with 50,000 miles.

Project Need: Provide a brief explanation of why the project is necessary.

The large dump truck is necessary for hauling. A truck with additional horsepower and increased capacity would be beneficial.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 185,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / sealed bid (1-5K est)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of 2014 International Dump Truck #140

Project ID #: _____ CIP ID #: MP-12

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 12/28/2022

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of 10 year old dump truck - this has already been ordered.

Project Need: Provide a brief explanation of why the project is necessary.

This large dump truck is used for hauling sludge from the wastewater plant. The truck operates in a harsh environment and needs to be replaced ever 10 years. Replacement with a truck with greater horsepower and capacity would be beneficial.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

this truck was moved up a year because of production rates and need at the WWTP. This truck will have to be moved to 2024 budget as build date is not expected to be until 9-4-24

Project Cost: $ 185,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / sealed bid (est 5-18K)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of 2018 International Street Sweeper #270

Project ID #: _____ CIP ID #: MP-13

Department: DPS - Motor Pool Anticipated Start Date: 07/2025

Date Prepared: 12/28/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of street sweeper with 1900 hours on both engines, approximately 10,000 miles

Project Need: Provide a brief explanation of why the project is necessary.

The street sweeper is used about 3 days/week during the summer. A sweeper's useful life is approximately five years and then it starts to cost more in parts and looses significant trade in value. Street sweepers keep the roads clean and reduce buildup from occurring in the storm sewers.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 395,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / sealed bid (est 60 - 85K)

List of Attachments (quotes, photos, etc.):

A7 Tornado SE

M2 106 Freightliner with sweeper body

Purchase Order Number	Special Option Request

SOLD TO: Fredrickson Supply		CUSTOMER NAME: City of Hastings	
Address:	3901 3 Mile Rd NW	Address:	201 E State St
	Grand Rapids, MI 49534		Hastings, MI 49058
			Hastings Sourcewell ID# 27945
Contact Name:	Todd Fredrickson	Contact Name:	
Contact Phone:	616-949-2385	Contact Phone:	

A7SE TORNADO STANDARD EQUIPMENT

SWEEPER ENGINE	PICKUP HEAD
Fuel water separator	90" x 36" Sweeping Head with Rubber Blast Orifice
Safety engine shutdown device	3/8" thick, 14" dia Pressure hose, 14" Suction Hose
Battery and 50 gallon fuel tank shared with chassis	Sweeps-in-Reverse
160 amp alternator	Doublewide full length carbide drag shoes Warranted against wear-out, two years/2000 hours, prorated.
High capacity air cleaner	
HYDRAULIC SYSTEM	**DUST CONTROL SYSTEM**
25 gallon vented hydraulic reservoir, w/shut-off valves	Twin Electric diaphragm water pumps with inlet restriction indicator
Tank mounted level and temperature indicator	Water tank capacity 480 gallons, polyethylene
Hydraulic pressure, 2500 psi	25-foot long fire hydrant fill hose
In-tank 10 micron return filter with in-cab indicator	50 mesh cleanable filter, with shut off valve
9000 BTU oil to air radiator type oil cooler	Water spray nozzles shall be provided as follows:
12-volt DC hydraulic backup system	Five at pickup head, two nozzles inside hopper
DUST SEPERATOR	Two at gutter broom, per option selected
Centrifugal dust separator, 29000 cu in. with 1680 sq in. door	Two nozzles in suction tube, two at front axle
	An air purge system for flushing water lines
HOPPER	**OPERATING CONTROLS**
Mild Steel, 8.4 CuYd, 7 CuYd usable Capacity	Sweeper power control, with auto throttle standby
Screens - 5615 square inches, saw tooth design	Broom deploy, tilt and speed
Twin dumping cylinders, 51 degrees	Head up/down or leaf bump, sweep in reverse
Rear door hydraulically opened, closed and locked	Dust control water by zone
Dual 20" X 32" watertight inspection doors, 1 left, 1 right	Hopper dump - in cab and at side broom
External weatherproof dump switches	Sweeper lighting and beacons
Shroud enclosing the blower system	**INSTRUMENTS**
BLOWER	Full color hi-res display with the following:
Closed face turbine 10 curved blades, 32.75" dia. by 5" wide	Water level, broom speed, hopper load, vacuum enhancer p
500 Brinell hardness abrasion resistant steel	Sweeper and drive system diagnostics
Fully balanced within 1.5 grams on both sides	Hopper tilted and door open indicator
Vacuum enhancer, w/indicator in cab	Swiveling console for left or right sweeping
Remote grease lines for fan bearing	Hyd. temp. & filter restriction
SWEEPER WARRANTY	**SAFETY EQUIPMENT**
Sweeper 12 Months, 1200 Hours	Two body props to lock hopper in raised position

VPD Device 36 months, unlimited hours	Rear Amber LED Strobe With Guard
Chassis sweeper engine 36 Months	2 rear yellow alternating LED flashing lights
Sweeper hydraulic pumps and fittings 5 years	Slow moving vehicle emblem, backup alarm, 5-lb fire extinguisher, and a warning triangle kit
Sweeper hydraulic motors and valves 2 years	
	Rear view camera

QTY	DESCRIPTION		PRICE
	POWER MODULE OPTIONS		**SIRGNSE**
1	**M2, 240 hp VPD sweeper drive**		$ 223,750.00
	Subtotal Auxiliary Engine Options		**$ 223,750.00**
	SWEEPING HEAD OPTIONS		
1	**Standard w/ rubber blast orifice**		$ -
	Sweep Head Deluge		
	Side Blast Head		
	Subtotal Sweeping Head Options		**$ -**
	GUTTER BROOM OPTIONS		
1	Gutter Broom, Dual W/Power Tilt and variable speed		$ 11,305.00
1	Gutter Broom, GEO Dual		$ 3,910.00
	Gutter Broom, RH W/Power Tilt and variable speed		
	Gutter Broom, GEO RH		
	Gutter Broom, GEO LH		
	Gutter Broom, Poly Segments, each		
	Gutter Broom, In-Cab Down Pressure	206C16	
1	**Standby, Full w/Throttle Ramp**		$ -
1	**Variable Speed Butter Broom(s)**		$ -
	Subtotal Gutter Broom Options		**$ 15,215.00**
	MISCELLANEOUS OPTIONS		
	Manual, Sweeper, Additional Copy *(Paper)*		$ 210.00
1	**14 Point Standard Remote Grease Manifold**		$ -
1	**Camera System, Single**		$ -
	Camera System, Dual *(Must list location of 2nd camera in Special Options)*		
	Camera System, Three *(Must list location of 2nd & 3rd camera in Special Optio*		
	Camera System, Four w/ Split Screen *(Location of camera 2, 3, 4 in Special O*		
	Alarm, Smart Backup, 97db-107db		
	Leak Detection Kit		
	Autolube, Vogel Body Only		
	Autolube, Vogel Body & Chassis		
	Autolube Fill Kit		
	Basic Sweeper Only Wrap	**SOR**	$ -
	Subtotal Miscellaneous Options		**$ -**
	WATER SYSTEM OPTIONS		
1	**Water Tank, Standard 470G**		$ -
1	**Water Tank Low Level Alarm & Ind.**		$ -
1	Spray Bar, Front		$ 1,060.00
	Spray Bar, Hopper Add. 4 Nozzles		
	Spray Bar, Hopper Add. 7 Nozzles		
	High Pressure Washdown Wand W/ Pump 2000 psi		

1	High Pressure Washdown W/ 50' Hose Reel 2000 psi		$ 6,890.00
	High Pressure Front Spraybar, Gun, Reel, Detergent Tank 3000 psi		
	Pressure Side Water Injector		
	Additional 80 gallon rear poly tank		
	Additional 100 gallon rear stainless steel tank		
	Water Fill Inline Y Strainer	206B28	
	Subtotal Water System Options		**$ 7,950.00**
	HOPPER OPTIONS		
1	**Hopper, 8.4 CuYd Carbon Steel, Drop Down Screens**		**$ -**
	Auto Drop Down Screens *(All Hoppers)*		
	Hopper, all materials, add Remote DD Screens		
	Hopper Sound Suppression		
	Hopper Dump Assist Shaker		
1	**Hand Hose - None**		**$ -**
	Hand Hose, 8" Spring Boom *(Remote Engine Throttle Included)*		
	Hand Hose, 8" Power Boom *(Remote Engine Throttle Included)*		
	Hand Hose, 8" Power Boom HD with extend *(Remote Engine Throttle Includ*		
	Pendant Control for Power Boom		
	Hand Hose Extension 4FT Long Rear Mount - 4 Max *(not compatible w/ rea*		
	Hand Hose Extension 4FT Front Bumper Mount - 2 Max (not compatible w/f		
	Hand Hose Water Nozzle		
	Rear Bumper Stow & Go - Rear Tube Holder		
1	**Hopper Deluge - None**		**$ -**
	Hopper Deluge, Conical Spray		
	Hopper Deluge, 4 Nozzle, Conical Spray		
1	**Load Weight Alarm & Indicator**		**$ -**
1	**Hopper Up Alarm & Indicator**		**$ -**
1	**Hopper Door Open Indicator**		**$ -**
	Hopper Dump Switches Exterior Right Side Only *(In Lieu of Standard Left)*		$ -
	Hopper Dump Switches Exterior , Both Sides		
1	**Hopper Drain - None or**		**$ -**
	Hopper Drain 6" (SS)		
	Dual Hopper Drain, 6" (SS)		
1	Hopper, High Strength Stainless Steel ***~LIFETIME WARRANTY~***		$ 9,790.00
	Hopper W/ Remote DD Screens High Strength Stainless Steel ***~LIFETIME WARRAN***		
	Hopper, 304 Stainless Steel ***~LIFETIME WARRANTY~***		
	Subtotal Hopper Options		**$ 9,790.00**
	REAR LIGHTING OPTIONS		
1	**Strobe, Rear W/Guard**		**$ -**
1	Strobe, Dual Rear LED		$ 745.00
	Strobe, Dual Rear W/Guard LED		
	Arrowboard, Traffic Guide, LED		
	Barlight, Rear LED		
	Barlight, Rear W/Guard LED		
	Floodlight, LED *(Must list location in Special Options)*		
	CAB LIGHTING OPTIONS		

	Strobe, Cab LED. SAE class 2		
	Strobe, Cab LED W/Guard. SAE class 2		
	Strobe, Dual, Cab LED W/Guard. SAE class 2		
	Barlight, 56" Cab Conventional LED. SAE class 1, Cal Title XIII		
	Barlight, 16" Cab W/Guard, Conventional, LED. SAE class 1, Cal Title XIII		
	Grill Mounted Strobes (2)	204J60	
	Grill Mounted Strobes (4)	204T21	
	Subtotal Lighting Options		**$ 745.00**
	SPECIAL PAINT OPTIONS		
1	**Paint, Standard**		$ -
	Paint, Special: Sweeper Unit Only		
	Paint, Special: Chassis Only		
	Special Paint Color: _____ **Special Paint Code:** _____		
1	**Decal Kit**		$ -
	Subtotal Special Paint		$ -
	CHASSIS MOUNTING OPTIONS		
1	FL M2+ 164" Dual Steer, 48 States, Non Carb	***#N/A***	$130,400.00
	***Please call Factory for Pricing and Availability in California**		
	M2 CHASSIS OPTIONS		
1	Mirror, 12" Parabolic, Set	203616	$ 590.00
	Air Filter Restrict Ind Chassis	203465	
	Tire & Rim, Spare M2	203468	
	Block Heater	203469	
	Rim, Spare M2	203620	
	Magnet, Bar, 90" FL M2	204A38	
	Magnet, Bar, 87" Self Dumping, FL M2	203X78	
	Magnet Bar 90" Anti-Swing		
	Subtotal M2 Chassis Options		**$ 590.00**

QTY	SOR #	SPECIAL OPTIONS REQUEST	PART #	PRICE
		Subtotal Special Options		**$ -**

	****SWEEPER EXTENDED WARRANTIES****		
1	**STANDARD- 1 Year or 1200 hours**	**STD**	$ -
	SILVER- 2 Years or 2400 Hours	SILVER	
	GOLD- 3 Years or 3600 Hours	GOLD	
	PLATINUM- 4 Years or 4800 Hours	PLATINUM	
	DIAMOND- 5 Years or 6000 Hours	DIAMOND	
	Subtotal Sweeper Extend Warranties		**$ -**

*****Chassis and auxiliary power are both separate, and need to be purchased through local dealer/distributors*****

FREIGHT OPTIONS			
LTL and Full Truck Rates are subject to truck availability. Step Deck rates are quoted based on dealer having an unloading dock. If Schwarze arranges for unloading on behalf of the dealer, dealer will be billed for additional unloading expense.			
1	**Dealer to arrange freight and PDI**	**DEALER**	**$ 4,000.00**
	Schwarze Arranged **LTL** Freight	LTL	
	Schwarze Arranged **FULL TRUCK** Freight	FULL	

Shipping Terms ~ Check 1	○ FOB ~ Huntsville, AL	◉ ExWorks ~ Huntsville, AL

Payment Terms: Place **X** in Appropriate Box		**SHIP TO: NAME** *(If different from sold to)*	
	C.O.D		
	Net 10	**Address:**	
	Net 30		
	Irrevocable Letter of Credit	**Contact Name:**	
	Other	**Contact Phone:**	

A7 TORNADO SE PURCHASE ORDER

Delivery ARO or ARC

If special chassis is provided, delivery quotation Is After Receipt of Customer Supplied Chassis

Purchase Order Number

RSM Approval Signature *Date*

Sales Manager Approval Signature *Date*

Subtotal Unit With Options		**$ 258,040.00**
Sourcewell Discount	4%	$ (10,321.60)
Subtotal After Sourcewell Discount		**$ 247,718.40**
Special Option Requests		$ 0.00
Chassis Price		$ 130,400.00
Sweeper Extended Warranty		$ 0.00
Subtotal		**$ 378,118.40**
SSA		$ 0.00
Freight+PDI		$ 4,000.00
TOTAL PURCHASE ORDER AMOUNT		**$ 382,118.40**

Buyer understands that this document is a binding purchase order and is a contract for the purchase of goods. This purchase order cannot be amended except in writing by both parties. Buyer agrees that by signing this Electronic Build Sheet and Purchase Order it has agreed to purchase the equipment and/or parts and attachments identified herein and has read and agreed to either: (i) Schwarze's terms and conditions in a validly executed dealer agreement if the Buyer is an authorized dealer or (ii) Schwarze's Standard Terms and Conditions of Sale located at www.schwarze.com/tc which are hereby incorporated by reference with the same force and effect as though fully set forth herein, if the Buyer is a direct customer.

Signature of Authorized Dealer Representative Submitting Purchase Order

Date

Make note of the following: All prices are subject to change without notice and are subject to surcharges. All pricing is quoted and to be paid in U.S. funds. Payment required before release of MSO. Warranties on chassis and auxiliary engine (if required) are provided by their manufacturer and are not covered by Schwarze Industries, LLC. Dealers are responsible for reviewing, and verifying, all quotes prior to submission in regards to the customers' bid requirements. Write-in options are subject to final approval concerning both structure and price by Schwarze Industries, LLC management. This Electronic Build sheet (EBS) is a communication tool between Schwarze Industries, LLC and it's authorized dealer. This EBS is proprietary to Schwarze Industries, LLC and may not be modified or used for any other purpose without the written consent of Schwarze Industries, LLC.

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Cat Skid Steer #430

Project ID #: _____ CIP ID #: MP-14

Department: DPS - Motor Pool Anticipated Start Date: 07/2028

Date Prepared: 02/29/2024

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of 2014 cat skid steer

Project Need: Provide a brief explanation of why the project is necessary.

This equipment is used for cleaning parking lots in the winter, tree removal, transferring black dirt, and removing sidewalk. It is replaced approximately every 10 years.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 135,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid (4-15K est)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of 6.9 yd salt spreader #62

Project ID #: _____ CIP ID #: MP-15

Department: DPS - Motor Pool Anticipated Start Date: 07/2024

Date Prepared: 12/27/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of v-box spreader for salt truck

Project Need: Provide a brief explanation of why the project is necessary.

This box will be approx 10 years old at time of replacement. This equipment is necessary for applying salt to the city streets. It would be advisable to include a liquid system in conjunction with the salt for better application during cold weather. An auger system would be more efficient and consistent in coverage.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 30,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid (est 1-4K)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of 6.9 yd salt spreader #92

Project ID #: _____ CIP ID #: MP-16

Department: DPS - Motor Pool Anticipated Start Date: 07/2024

Date Prepared: 12/28/2022

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of v-box spreader for salt truck.

Project Need: Provide a brief explanation of why the project is necessary.

This box will be approx 10years old at time of replacement. This equipment is necessary for applying salt to the city streets. It would be advisable to include a liquid system in conjunction with the salt for better application during cold weather. An auger system would be more efficient and consistent in coverage.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 30,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid (est 1-4K)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Vactor Truck #240

Project ID #: _____ CIP ID #: MP-17

Department: DPS - Motor Pool Anticipated Start Date: 07/2026

Date Prepared: 12/29/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of city vactor truck.

Project Need: Provide a brief explanation of why the project is necessary.

The vactor truck is used for sewers, water main repairs, and to service leaks in catch basins. It is one of the most used pieces of equipment in the garage. Vac truck will be approx 7 years old at time of replacement.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 575,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in
Installment Purchase Contract

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Pull Behind Air Compressor #160

Project ID #: _____ CIP ID #: MP-18

Department: DPS - Motor Pool Anticipated Start Date: 07/2024

Date Prepared: 12/29/2023

Project Description: Provide a brief physical description of the project. Please be specific.

This air compressor is used for blowout and air hammering

Project Need: Provide a brief explanation of why the project is necessary.

This unit is useful for blowing out valve boxes, service boxes, air hammering of pavement and cleaning lines for winter. This unit will be approx 20 years old at time of replacement.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 20,000.00

Please check one of the following for cost basis:

- ☐ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ■ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Front End Loader #250

Project ID #: _____ CIP ID #: MP-19

Department: DPS - Motor Pool Anticipated Start Date: 07/2027

Date Prepared: 12/29/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of Front End Loader that was purchased in 2015.

Project Need: Provide a brief explanation of why the project is necessary.

Front end loader is used for loading material, picking up leaves, snow, and brush.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 325,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid (est 25 - 45K)

List of Attachments (quotes, photos, etc.):

City of Hastings – Capital Improvement Plan
Project Application Form

Project Title: Replacement of Excavator #180

Project ID #: _____ CIP ID #: MP-20

Department: DPS - Motor Pool Anticipated Start Date: 07/2027

Date Prepared: 12/29/2023

Project Description: Provide a brief physical description of the project. Please be specific.

Replacement of Excavator

Project Need: Provide a brief explanation of why the project is necessary.

This vehicle is necessary for curb removal, water main breaks, heavy lifting, hydrant replacement, and other purposes within the city. This machine will be about 20 years old at time of proposed replacement.

Planning: Is the project included in a prior program, plan, or policy? If so, identify the plan here:

Does the project share space or overlap with other CIP projects? Please describe.

Project Cost: $ 265,000.00

Please check one of the following for cost basis:

- ■ Cost of comparable facility/equipment
- ☐ Cost estimate from engineer/architect
- ☐ Rule of thumb indicator/unit cost
- ☐ Preliminary estimate
- ☐ Ballpark "guesstimate"

Potential Funding Sources:

Equipment Fund
Trade in / Sealed Bid (est 25-45K)

List of Attachments (quotes, photos, etc.):