



CITY OF HASTINGS

**CAPITAL  
IMPROVEMENT  
PLAN**

March 2023 Edition



## Introduction

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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.

The City of Hastings is actively managing the needs of these systems. The needs have been evaluated and financial strategies have been considered. This Capital Improvement Plan presents the City of Hastings' infrastructure priorities that have been established within a 10-year planning period for streets and utilities, and a 6-year planning period for all other types of public structures and improvements.

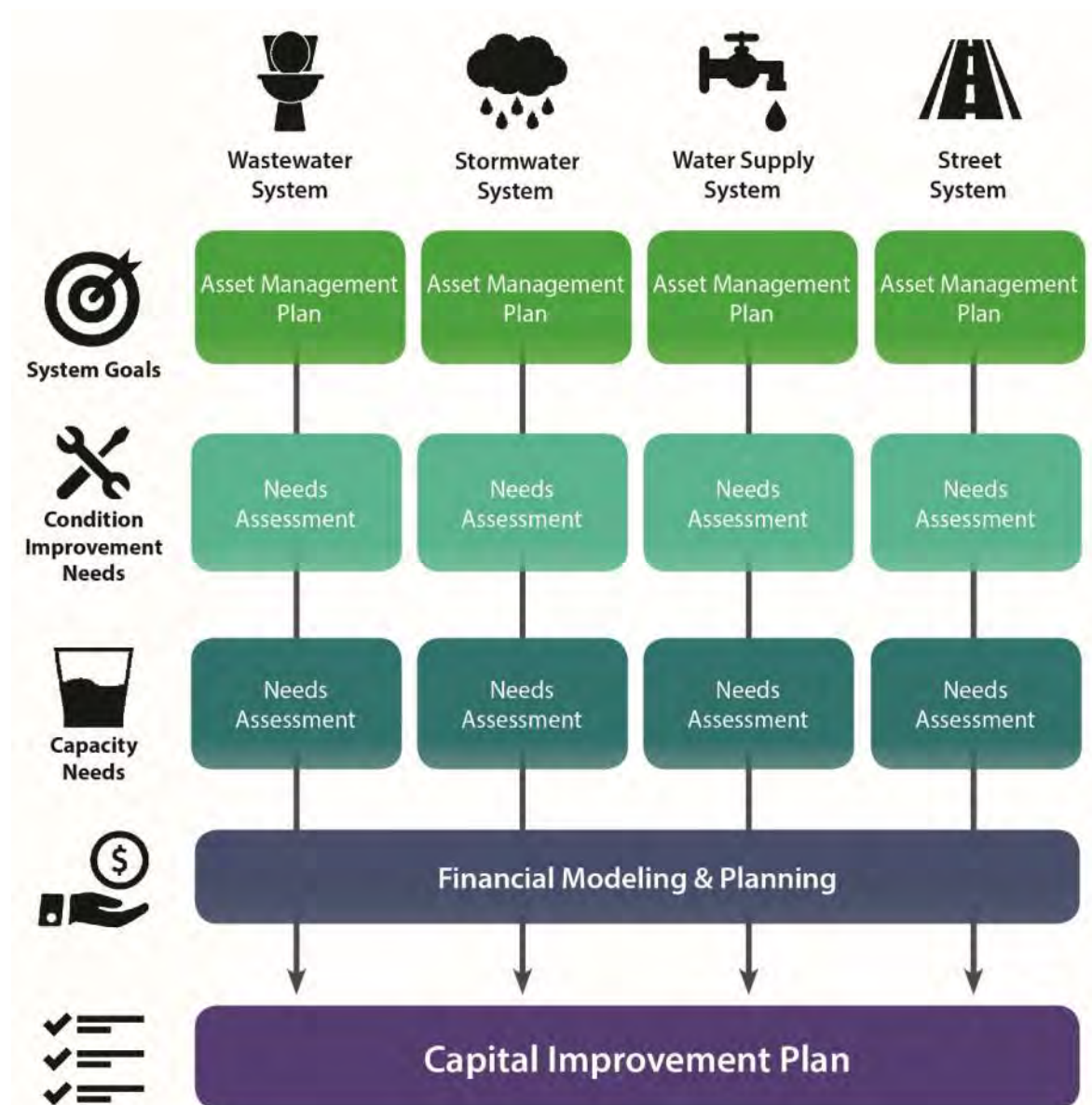
The next step for the City of Hastings is to further develop and refine financial strategies to fund the planned work over the anticipated timeline. This can be done through annual budgeting discussions, leveraging state and federal grant/loan resources, and rate studies. A financial strategy is necessary to fully implement the plan.

## Planning Framework

Asset management is a programmatic way of managing the needs of the infrastructure. The asset management plan for each system guides the program and establishes goals for the system. By implementing the asset management program, the needs of each system are determined and prioritized. Each system has two kinds of needs: condition improvement needs and capacity needs.

**Condition improvements** may be needed to repair aging and deteriorated parts of the system.

**Capacity** may be needed to ensure the infrastructure will meet the needs of the people.



## Current Needs Assessments

The City of Hastings has completed the following needs assessments upon which this Capital Improvement plan has been developed:

<b>System</b>	<b>Condition Improvement Needs Assessments</b>	<b>Capacity Improvement Needs Assessments</b>
Wastewater System	Wastewater System Asset Management Plan, HRC Report- 2019 (SAW)  2018 CCTV in GIS & Observation Point Data. P&N CCTV Review Memo- 2022  P&N Lift Station Assessment Memo- 2022	Sewer Flow Study, P&N Report- 2019 (SAW)
Stormwater System	Stormwater System Asset Management Plan, HRC Report- 2019 (SAW)  2018 CCTV in GIS & Observation Point Data. P&N CCTV Review Memo- 2022	
Water Supply System	Water System Asset Management Plan, HRC Report- 2020 (WAMP)  Preliminary Distribution System Material Inventory, by City 2020  Water Main Break History (GIS), By City 2022	Water System Reliability Study, P&N Report- 2018
Street System	Pavement Analysis (PASER), ROWE Report- 2021 (GIS)  Street Asset Management Plan, P&N Report- 2018 (GIS/PASER)	No Current Traffic Studies (not typical for local streets)  'Bike Hastings' Bike Master, W&W Report- 2016
Parks & Recreation	5-Year Parks and Recreation Master Plan Update, Viridis Design Report- 2019	
All City Departments	Review of Prior Year Capital Improvement Plan Spreadsheet  2022 Project Application Form Request process	



## **Coordinating the Systems to Minimize Cost**

When capital improvements are planned considering both kinds of needs across all infrastructure systems the potential for tearing up good streets to work on underground utilities can be reduced and overall cost can be minimized. This requires financial planning for all infrastructure systems together and a capital improvement plan that is coordinated across all infrastructure systems.

## **Ongoing Capital Improvement Planning**

Capital improvement planning is an ongoing process. Plans are expected to change as new information becomes available and economic conditions change. While the various studies to determine the needs may be updated at differing times, this Capital Improvement Plan is intended to be updated annually to always reflect the current plan moving forward.

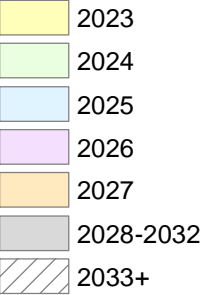
CITY OF HASTINGS  
BARRY COUNTY, MICHIGAN  
2023 CAPITAL IMPROVEMENT PLAN

March 2023

LEGEND

CIP Projects

Year



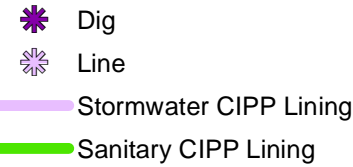
Sanitary Spot Repairs

Type



Storm Spot Repairs

Type

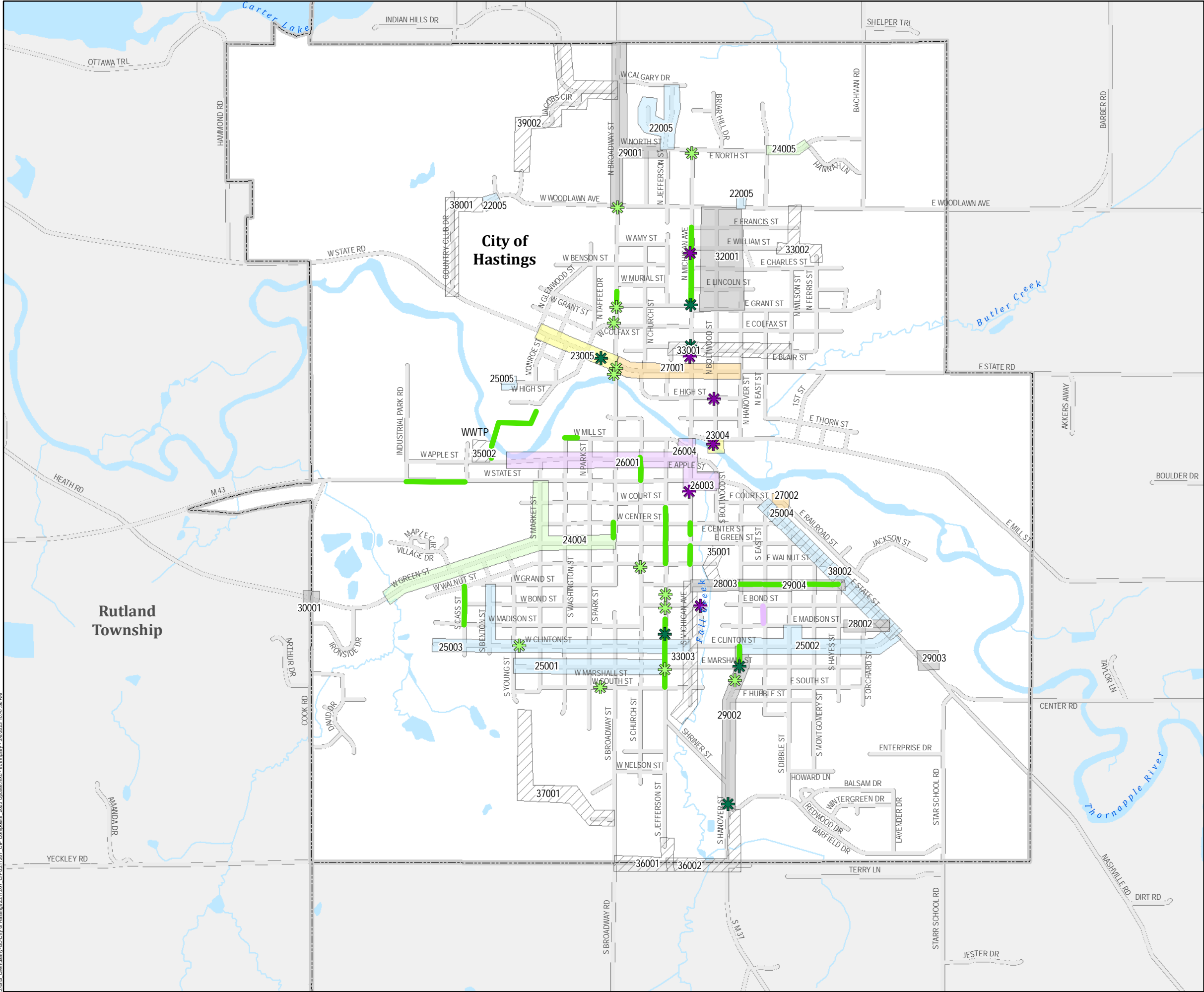


Note:  
Refer to Implementation Timeline and  
Future Planning Project lists for additional  
information. Some projects are not shown  
on this map.



Prein&Newhof

2211207





CITY OF HASTINGS  
BARRY COUNTY, MICHIGAN  
**SANITARY SEWER DEFICIENCIES**  
January 2022

Note:  
21.7 miles (46%) of sanitary sewers were  
televised in 2018 under SAW project.  
This map is only showing 4 & 5 structural  
rated pipes. Refer to GIS data for full PACP  
observation data including specific  
observations points added to GIS in 2022  
as part of the CIP project.

LEGEND

▲ Lift Station

Force Main

Sanitary Deficiencies

4 (poor)

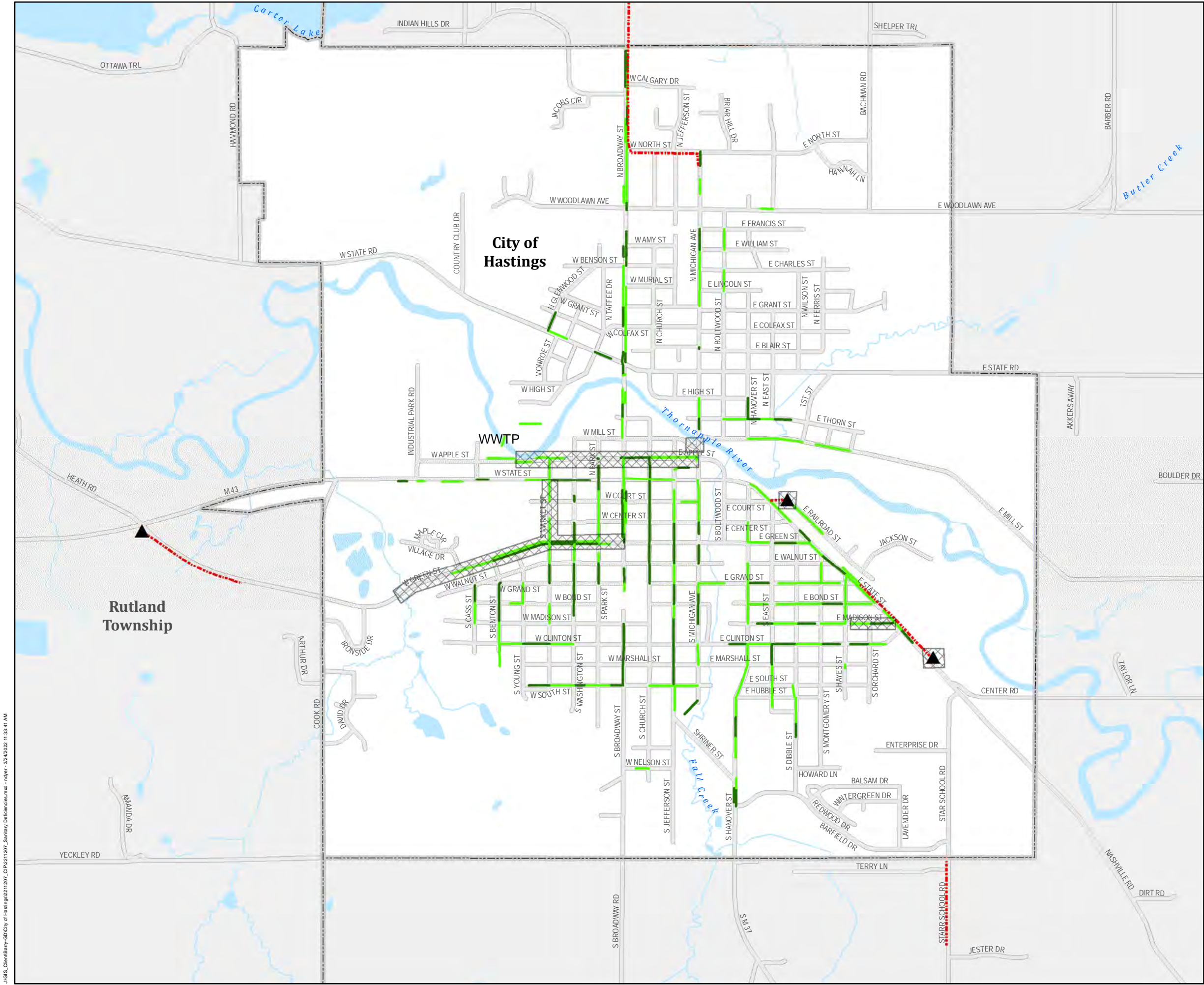
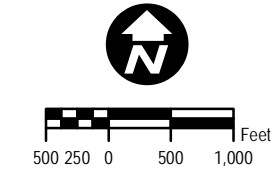
5 (failing)

Municipal Boundary

CityBoundary

Sanitary Capital Projects through 2031

Note:  
Refer to Implementation Timeline for  
additional CIP projects including spot  
repairs, sewer lining, smoke testing,  
and additional televising.



CITY OF HASTINGS  
BARRY COUNTY, MICHIGAN  
STORM SEWER DEFICIENCIES

January 2022

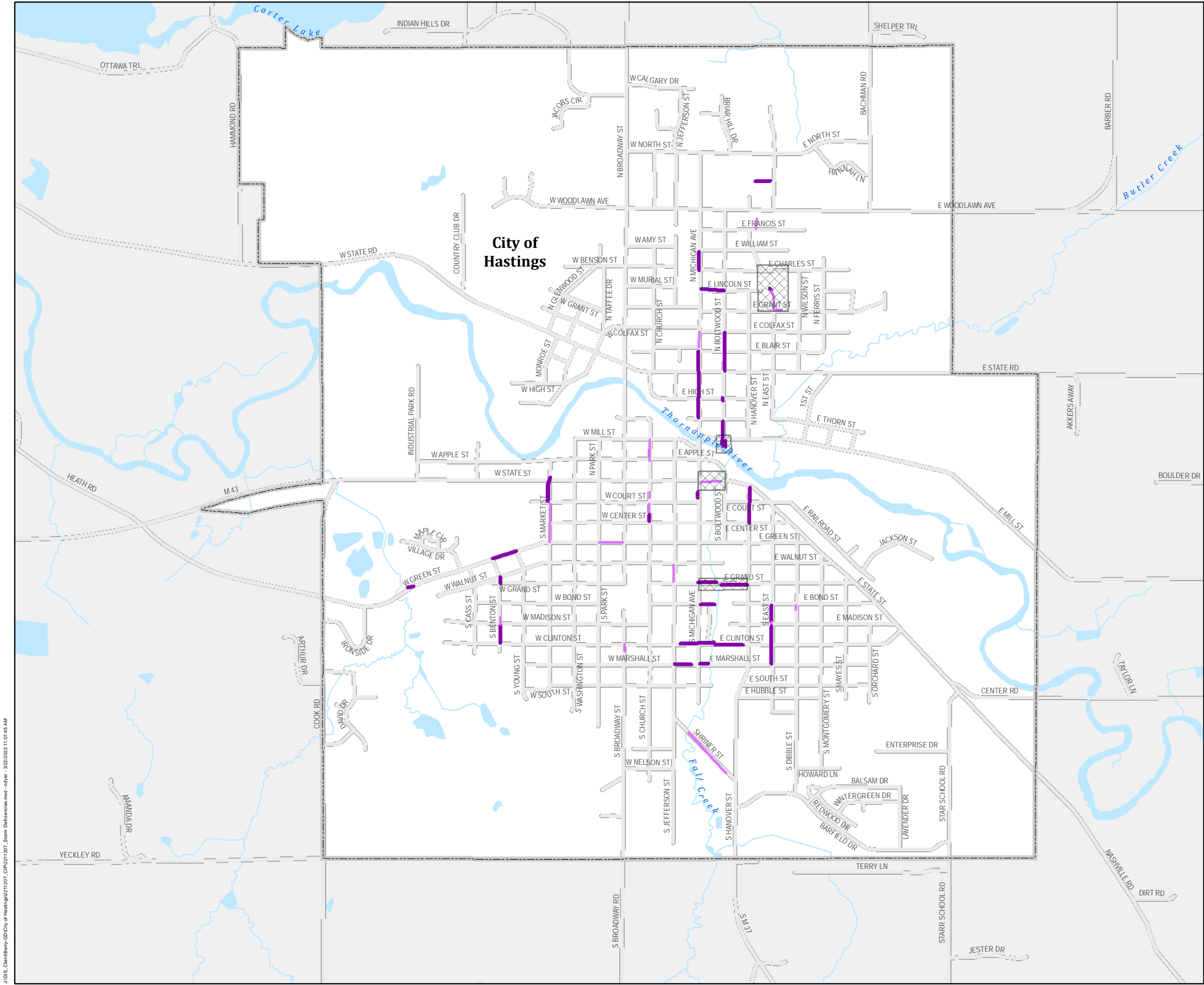
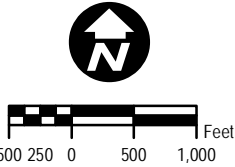
Note:  
5.0 miles (12%) of storm sewers were  
televised in 2018 under SAW project.  
This map is only showing 4 & 5 structural  
rated pipes. Refer to GIS data for full PACP  
observation data including specific  
observations points added to GIS in 2022  
as part of the CIP project.

LEGEND

**Stormwater Deficiencies**

- 4 (poor)
- 5 (failing)
- CityBoundary
- Storm Capital Projects through 2031

Note:  
Refer to Implementation Timeline for  
additional CIP projects including spot  
repairs, sewer lining, smoke testing,  
and additional televising.
















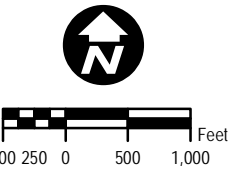
CITY OF HASTINGS  
BARRY COUNTY, MICHIGAN  
WATER SYSTEM DEFICIENCIES

January 2022

LEGEND

-  Production Well
-  Hydrant
-  Water Main Break (2011-2018)
-  Water Main Breaks (2018-2022)
-  Storage Tank
-  Water Main
-  Short-Term (0-5 Years)
-  Long-Term (6-20 Years)
-  High Pressure District Boundary
-  Municipal Boundary
-  Water Capital Projects through 2031

Note:  
Refer to Implementation Timeline for  
additional CIP projects including lead  
service line verification and replacement.



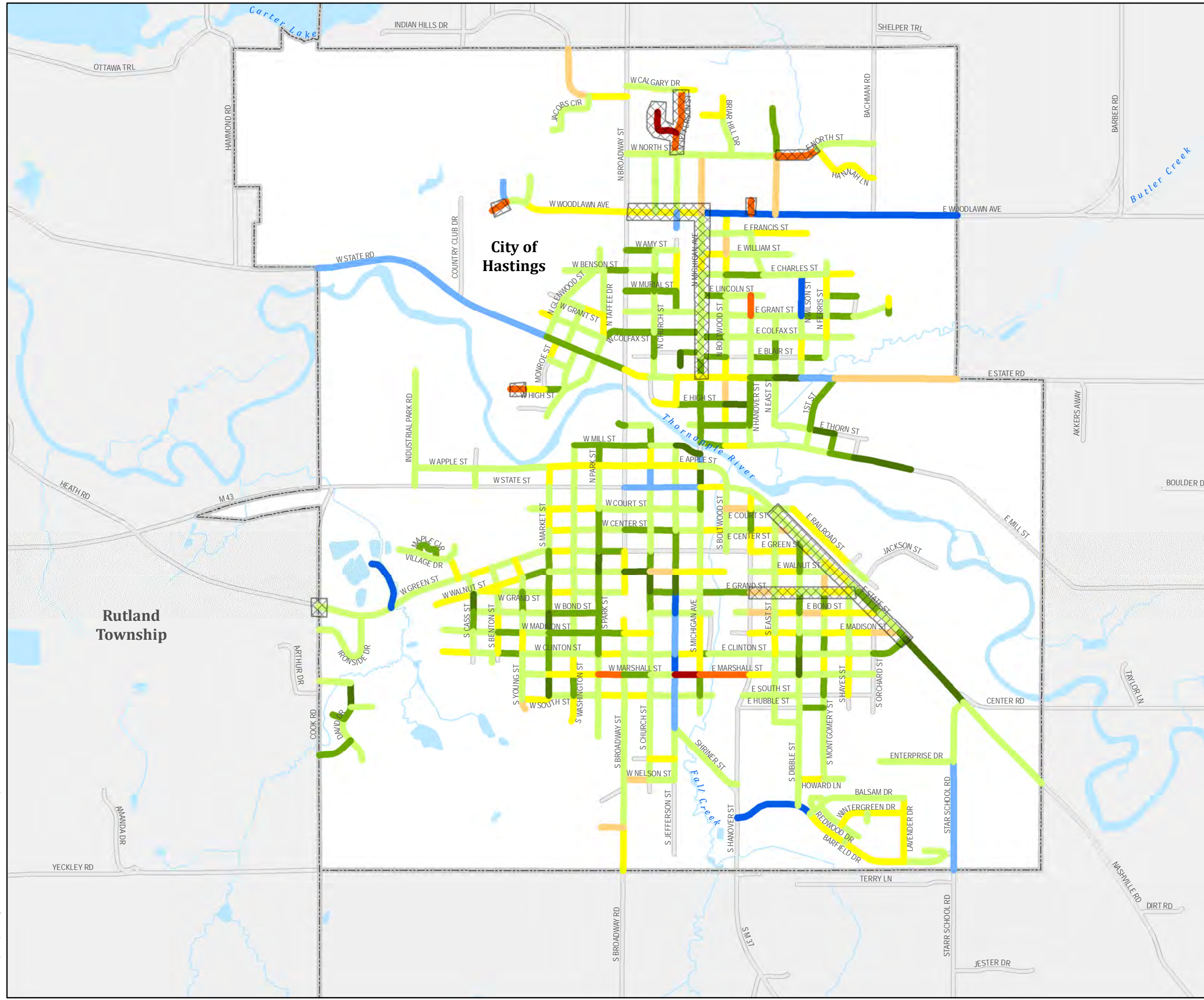
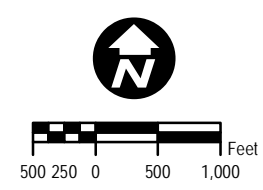


CITY OF HASTINGS  
BARRY COUNTY, MICHIGAN  
**ROAD DEFICIENCIES**  
January 2022

LEGEND

- 2021 PASER**
- 1 (failing)
  - 2
  - 3
  - 4
  - 5
  - 6
  - 7
  - 8
  - 9 (good)
- Municipal Boundary
  - Road Capital Projects through 2031

**Note:**  
Refer to Implementation Timeline for additional CIP projects. Many utility CIP projects include full street reconstruction or partial resurfacing.



		2023	2024	2025	2026	2027	2028	Total
<b>General Services</b>								
CH-2	City Hall Parking Lot Lights	26,500						26,500
CH-3	Replace Phone System			45,000				45,000
CH-4	City Hall First Floor Renovation	25,000						25,000
CH-5	Pedestrian Design Improvements	50,000						50,000
DPS-1	Screening of Compost Facility	10,000	10,000	10,000	20,000	10,000		60,000
<b>Total General Services</b>		111,500	10,000	55,000	20,000	10,000	0	206,500
<b>Parks &amp; Recreation</b>								
P-1	Fish Hatchery Restrooms		400,000					400,000
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	185,000						185,000
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			125,000				125,000
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				20,000			20,000
P-12	Hammond Hills Green Restroom Construction				80,000			80,000
P-13	Pickleball at Bob King Park	15,000						15,000
<b>Total Parks &amp; Recreation</b>		260,000	580,000	245,000	100,000	0	100,000	1,285,000
<b>Library</b>								
L-1	Window/HVAC Replacement	1,200,000						1,200,000
<b>Total Library</b>		1,200,000	0	0	0	0	0	1,200,000

		2023	2024	2025	2026	2027	2028	Total
<b>Water/Sewer Department</b>								
WS-1	Well 4 Building Repair		35,000					35,000
WS-2	Chlorine Detector at Water Plant	13,800						13,800
WS-3	Well 3 Upgrade	80,000						80,000
WS-4	Water Plant HVAC Improvements	50,000	50,000					100,000
WS-5	Chlorinator 2 Upgrade		40,000					40,000
WS-6	VFD Programming Upgrade		18,000					18,000
WS-7	Water System Radio Upgrades	19,000					20,000	39,000
WS-8	Water Plant Ground Storage Fill Flow Meter Replacement	10,000						10,000
WS-9	Booster Station Upgrade	16,500						16,500
WS-10	Water Reliability Study		20,000					20,000
WS-11	Construct new elevated storage tank						3,000,000	3,000,000
WS-12	Air Scrubber Media Replacement	14,000						14,000
WS-13	North Primary Clarifier Mechanism Replacement		100,000					100,000
WS-14	Add press to SCADA controls			50,000				50,000
WS-15	Screw Addition to Sludge Press				150,000			150,000
WS-16	Increase Thickener Capacity			300,000				300,000
WS-17	Additional Blower		60,000					60,000
WS-18	Railroad St Lift Station Engineering & Replacement Green/Market St. Sanitary Sewer Replacement (Broadway to Fish Hatchery Park/State St to Green St)	60,000				524,000		584,000
WS-19			4,772,242					4,772,242
WS-20	Sanitary Sewer Televising Program	47,000		50,000	50,000	52,000	53,000	252,000
WS-21	Marshall St. Water Main Replacement & LSLR Project (Jefferson to West End)			2,122,171				2,122,171
WS-22	Clinton St. (east)/Dibble Water Main Replacement/Transmission Improvements (Hanover/M37 to State St)			3,396,314				3,396,314
WS-23	Clinton St. (west) Water Main & LSL Replacement Project (Michigan to West End), and S Benton St. Sanitary & Storm Sewer Replacement (Clinton to Walnut)			4,163,670				4,163,670
WS-24	Apple Street Sanitary Trunk Sewer Replacement (600' W of Market to Michigan)				2,491,947			2,491,947
WS-25	Lead Service Line Replacements				15,068,000			15,068,000
WS-26	Mill Street Sanitary Replacement (Michigan to Jefferson)				93,143			93,143
WS-27	E. Madison Sanitary Replacement						432,319	432,319
WS-28	Smoke Testing for Sanitary Sewer I&I					61,000		61,000
WS-29	Water Meter Replacement Program	200,000		200,000	200,000			600,000
WS-30	Sanitary Sewer Spot Repairs						78,000	78,000
<b>Total Water/Sewer</b>		510,300	5,095,242	10,282,155	18,053,090	637,000	3,583,319	38,161,106



		2023	2024	2025	2026	2027	2028	Total
<b>Streets</b>								
MS-1	State Rd Resurfacing	274,954						274,954
MS-2	Michigan Ave Bridge Maintenance		50,000					50,000
MS-3	E. Grand Street mill & resurface						700,000	700,000
MS-4	State St Storm Sewer Replacement				400,000			400,000
LS-1	Road Gravel	10,000						10,000
LS-5	Mill St (Michigan to Jefferson)				10,388			10,388
MS-5	Boltwood Storm Sewer Replacement	30,000						30,000
MS-6	E. Grand Street storm sewer replacement						210,000	210,000
MS-7	Green/Market St. (Broadway to Fish Hatchery Park/State St to Green St)		1,351,587					1,351,587
LS-1	Marshall St. (Jefferson to West End)			193,194				193,194
MS-9	Clinton St. (east)/Dibble (Hanover/M37 to State St)			431,846				431,846
MS-10	Clinton St. (west) (Michigan to West End), and S Benton Storm Sewer Replacement (Clinton to Walnut)			267,062				267,062
S-1	Storm Sewer Televising Program	69,000		71,000	73,000	75,000	78,000	366,000
S-2	Storm Sewer Spot Repairs						38,807	38,807
<b>Total Streets</b>		383,954	1,401,587	963,102	483,388	75,000	1,026,807	4,333,838
<b>Cemetery</b>								
RC-2	Riverside Cemetery Reflective Area	100,000						100,000
<b>Total Cemetery</b>		100,000	0	0	0	0	0	100,000
<b>TIF Funds</b>								
DDA-1	Parking Lot 8 Reconstruction	200,000						200,000
DDA-2	State Streetscape Reconstruction	2,800,000						2,800,000
DDA-3	Thornapple Plaza & Spray Plaza Stage Maintenance	15,000						15,000
LDFA-1	Semi-Parking Lot Mill & Reshape	30,000						30,000
LDFA-2	Mill & Resurface Enterprise Drive	150,000						150,000
<b>Total TIF</b>		3,195,000	0	0	0	0	0	3,195,000

		2023	2024	2025	2026	2027	2028	Total
<b>Emergency Services</b>								
PD-3	Patrol Vehicle Replacement (#41)			45,000				45,000
PD-4	Patrol Vehicle Replacement (#43)			45,000				45,000
PD-5	Patrol Vehicle Replacement (#42)				45,000			45,000
PD-6	Patrol Vehicle Replacement (#47)				45,000			45,000
PD-7	Replacement of Police Chief's Vehicle		50,000					50,000
PD-8	Replacement Portable Radios		80,000					80,000
F-2	Replace SCBA (4 units)	27,342						27,342
F-3	Replacement tanks for SCBAs (12 units)	13,500						13,500
F-4	Replacement VHF Radios (4 units)	4,500		4,500				9,000
F-5	Turnout Gear (4 sets)	10,000	10,000	12,500	13,500	13,500		59,500
F-6	800 Radios (2 units)	8,500		9,000				17,500
F-8	New Class A Pumper Truck (half cost)				625,000			625,000
ES-1	Emergency Services Building Construction		12,000,000					12,000,000
<b>Total Emergency</b>		63,842	12,140,000	116,000	728,500	13,500	0	13,061,842
<b>Equipment/Motor Pool</b>								
MP-4	6-Yd Dump Truck Replacement (#130)	210,000						210,000
MP-5	Front End Loader (#220)			265,000				265,000
MP-6	3-Yd 2008 Dump Truck Replacement (#350)	100,000						100,000
MP-7	3-Yd 2008 Dump Truck Replacement (#80)	100,000						100,000
MP-8	1996 Super Duty Bucket Truck Replacement (#290)	205,000						205,000
MP-9	Claw/Tink bucket (#253)	20,000						20,000
MP-31	Claw/Tink bucket (#224)	20,000						20,000
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)			355,000				355,000
MP-14	Cat Skid Steer 2014 (#430)					135,000		135,000
MP-15	Salt Spreader Replacement 6.9 yds (#62)			20,000				20,000
MP-16	Salt Spreader Replacement 6.9 yds (#92)			20,000				20,000
MP-17	Vactor Truck Replacement (on rotation)				525,000			525,000
MP-18	Pull behind Air Compressor (#160)		20,000					20,000
MP-20	Front End Loader (#250)					325,000		325,000
MP-21	Excavator Replacement (#180)					265,000		265,000
MP-24	Street Supervisor Truck #20 (Rotation schedule)	53,000	54,000	54,500	55,000	55,000		271,500
MP-25	Utility Supervisor Truck #30 (Rotation schedule)	53,000	54,000	54,500	55,000	55,000		271,500
MP-29	Service Truck (#40)	90,000						90,000
<b>Total Equipment/Motor Pool</b>		851,000	553,000	769,000	635,000	835,000	0	3,643,000
<b>GRAND TOTAL 2023 - 2028</b>								<b>65,186,286</b>

## Future Planning Projects 10-20 Year - City of Hastings 2023 CIP - rev. 03/06/23

2211207

### Water/Sewer/Storm/Streets Projects

2210635

Planned FY <sup>(1,2)</sup>	Project No.	Project Title
2032	32001	North Boltwood Neighborhood Water Main Replacement
2032	32002	Sanitary Sewer Televising Program (continue through 2034)
2032	32003	Storm Sewer Televising Program (continue through 2034)
2033	33001	Blair Street Water Main Replacement/Transmission Improvements
2033	33002	Francis/William Street Water Main Extension/Loop
2033	33003	Michigan Ave. Sanitary Replacement (Grand to Shriner) include storm/water main
2035	35001	Sanitary Sewer Upsize in Easement (N of Grand, E of Michigan by Fall Creek)
2036	36001	S. Broadway/Jefferson Street Water Main Extension/Loop
2036	36002	S. Hanover Street (M37) Water Main Extension/Loop (Barfield to Jefferson)
2037	37001	Market Street Water Main Extension (S Broadway/Westfield to Market St.)
2037	37002	Smoke Testing (North) Districts 2&3, Sanitary Sewer Inflow & Infiltration Inv.
2038	38001	Country Club Dr. Water Main Extension/Loop (State Rd. to Woodlawn)
2038	38002	E. State Street Sanitary Upsize/Replacement (Railroad to Clinton)
2039	39001	Elevated Water Tank in High Pressure District (EGLE Count Limits)
2039	39002	Inidan Hills/Jacob Circle Watermain Extension (Broadway to W. Woodlawn)
2041		All lead water service lines must be replaced.

#### Notes:

<sup>(1)</sup> Unplanned repairs or system demands may necessitate adjustments in priority.

<sup>(2)</sup> City Fiscal Year is "FY23" is FY23/24 July 1, 2023 to June 30, 2024. Note some costs may overlap engineering/construction over 2 years.



		Total
<b>General Services</b>		
CH-2	City Hall Parking Lot Lights	26,500
CH-3	Replace Phone System	45,000
CH-4	City Hall First Floor Renovation	25,000
CH-5	Pedestrian Design Improvements	50,000
DPS-1	Screening of Compost Facility	60,000
<b>Total General Services</b>		206,500

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of Parking Lot Lights at City Hall

Project ID #: \_\_\_\_\_ CIP ID #: CH-2

Department: Administration Anticipated Start Date: 07/2023

Date Prepared: 02/20/2023

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

Replace the light poles in the parking lot at city hall (5 light poles).

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

The lights are old and rusting. Opportunity to upgrade to LEDs.

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

bid out last year, deemed too expensive to proceed

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

Streetscape Project adjacent

**Project Cost:** \$ 26,500.00

**Potential Funding Sources:**

General Fund

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"

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

Photos of existing lightpoles





# 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 Improvements

Project ID #: \_\_\_\_\_

CIP ID #: CH-4

Department: multiple

Anticipated Start Date: 07/2023

Date Prepared: 02/20/2023

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

- modify the current layout to make better use of existing square footage
- improve security & accessibility for people with disabilities
- replace flooring material on first floor and mayor's office

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

The existing flooring material is well worn. It is not clear to customers and guests where they should go. Without clear direction where guests should go, they sometimes "wander". No accessible restroom on the first floor. It would be difficult to accommodate an employee with disabilities on the first floor. There is a lot of underutilized floor space yet the work areas are very small.

**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

**Potential Funding Sources:**

General Fund

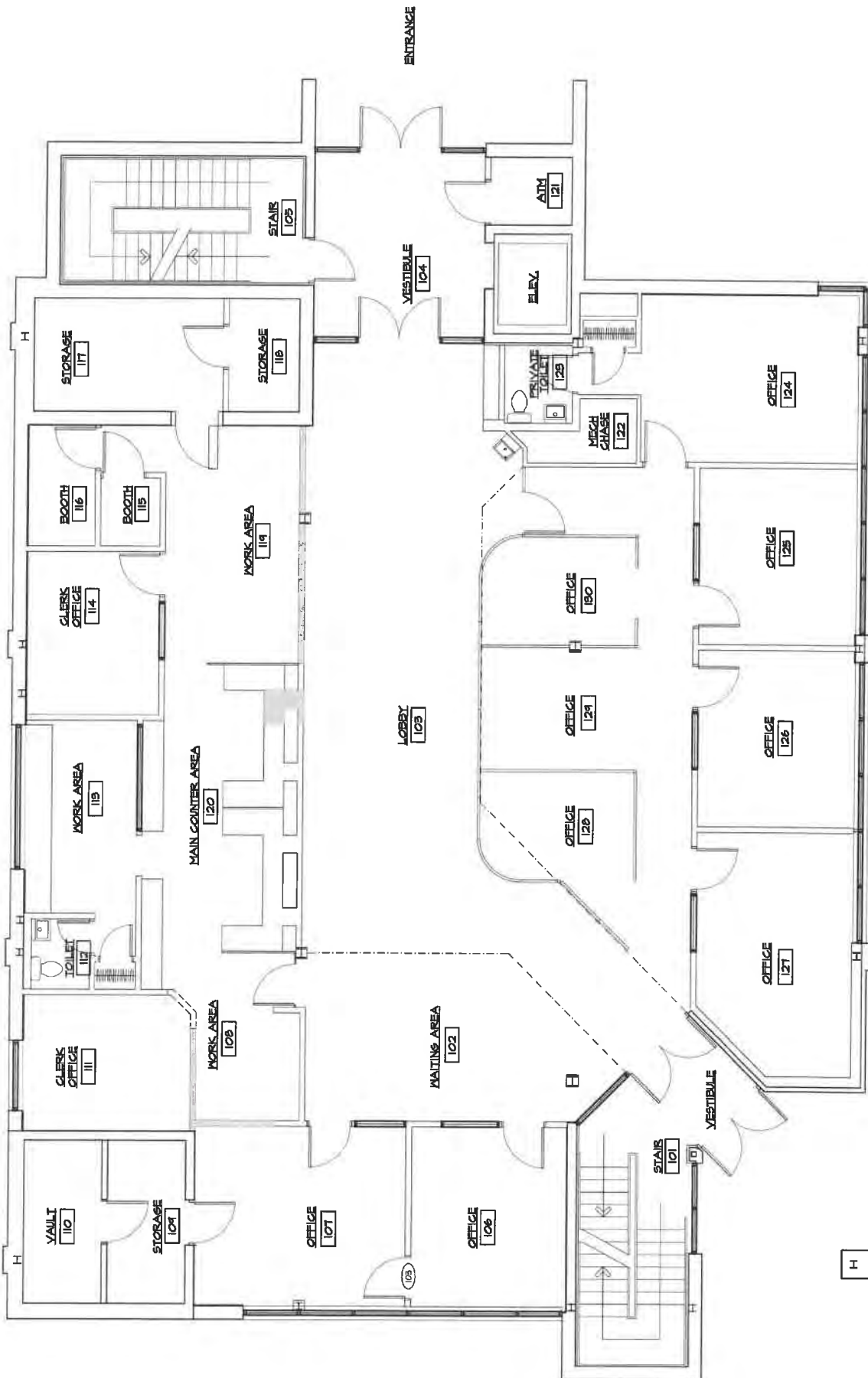
Please check one of the following for cost basis:

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

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

Photos





# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Pedestrian Design Improvements

Project ID #: \_\_\_\_\_ CIP ID #: \_\_\_\_\_

Department: City Manager Anticipated Start Date: 07/2023

Date Prepared: 01/30/2023

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

Identify and strategize how pedestrian crossings can be improved. Implement the strategy in cooperation with MDOT or other agencies as determined.

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

Past walking audit and publically identified areas where crossing safety can be improved (ie Tyden Park/M43 crossing)

**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  
Local Streets  
General Fund

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



# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Compost Screening

Project ID #: \_\_\_\_\_ CIP ID #: \_\_\_\_\_

Department: \_\_\_\_\_ Anticipated Start Date: 07/2023

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:

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

**Project Cost:** \$ 20,000.00

**Potential Funding Sources:**

General Fund

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"

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

**Parks & Recreation**

P-1	Fish Hatchery Restrooms	400,000
P-2	Fish Hatchery Softball Field	95,000
P-3	Fish Hatchery Walking Path Reconstruction	45,000
P-4	Tangle Town Renovation	185,000
P-5	Tyden Park Pavillion Restoration	20,000
P-6	Tyden Park Riverwalk Trail	65,000
P-7	Tyden Park Drive and Parking	75,000
P-8	Sweezy's Pond Improvements	125,000
P-9	Non-motorized Trail / McNair St	100,000
P-		
10	Bob King Park "tot lot"	60,000
P-		
11	River Access Improvements	20,000
P-		
12	Hammond Hills Green Restroom Construction	80,000
P-		
13	Pickleball at Bob King Park	15,000
<b>Total Parks &amp; Recreation</b>		<b>1,285,000</b>

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Fish Hatchery Restrooms

Project ID #: \_\_\_\_\_

CIP ID #: P-1

Department: DPS

Anticipated Start Date: 07/2024

Date Prepared: 03/02/2023

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

Replace restrooms at Fish Hatchery Park. The "Upper Restrooms" have a grant application for their replacement. The "lower restrooms" do not and may require additional design to replace because they are affixed to the pavilion.

**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:** \$ 400,000.00

**Potential Funding Sources:**

MDNR Natural Resources Trust Fund  
General Fund

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"

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

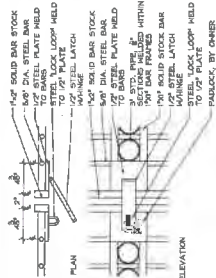
Photos  
Possible Floor Plans



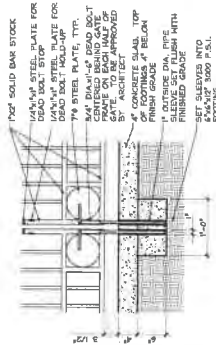




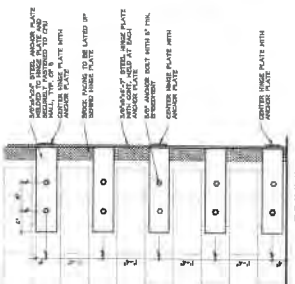
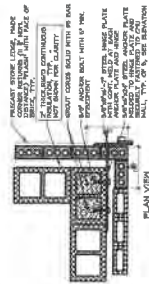




5 LATCH DETAIL  
SCALE 1/2" = 1'-0"

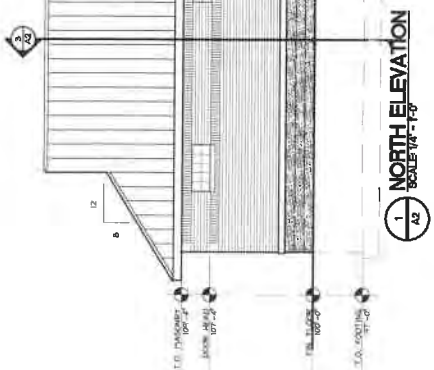


6 DEAD BOLT DETAIL  
SCALE 1/2" = 1'-0"

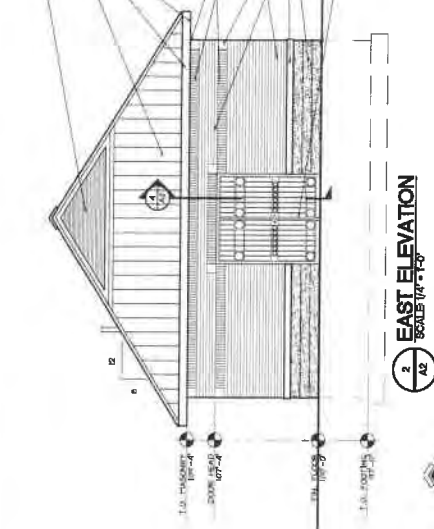


7 GATE ANCHOR PLATES DETAIL  
SCALE 1/2" = 1'-0"

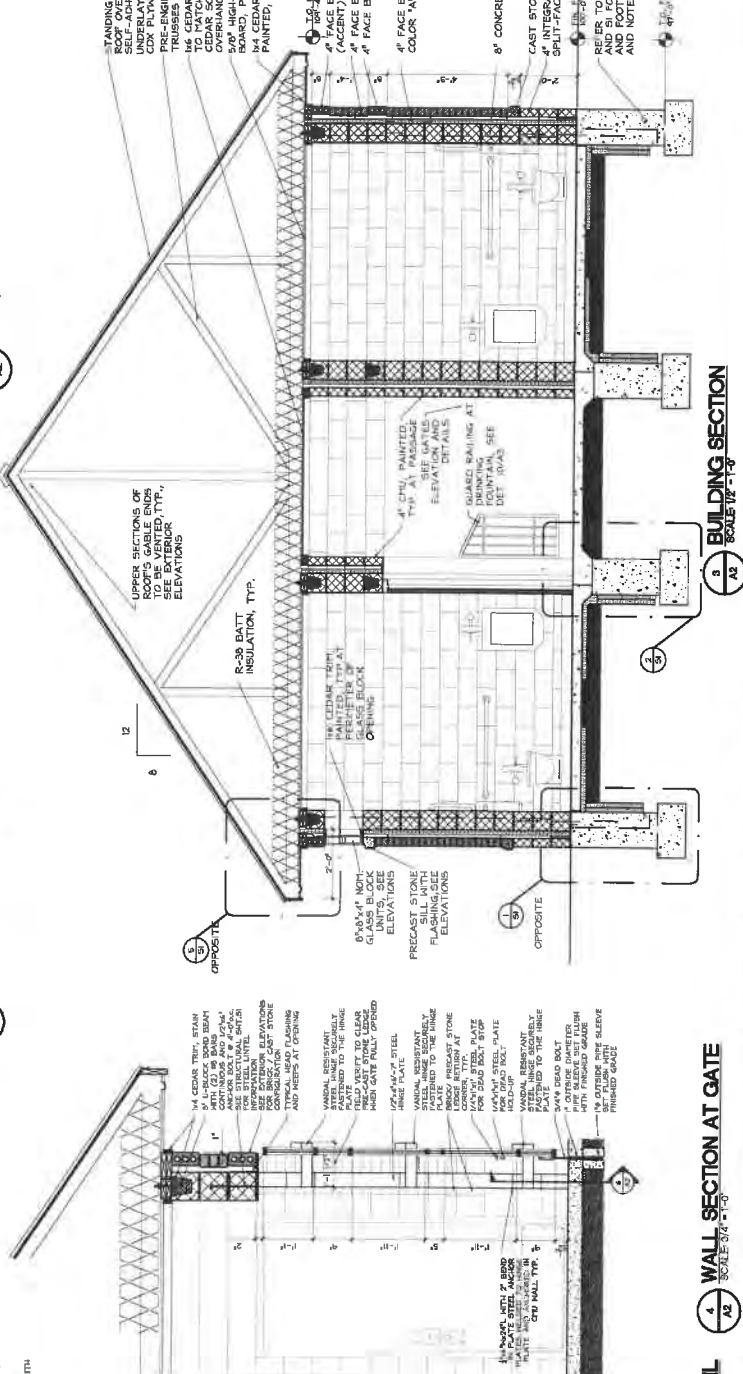
4 WALL SECTION AT GATE  
SCALE 1/2" = 1'-0"



1 NORTH ELEVATION  
SCALE 1/2" = 1'-0"



2 EAST ELEVATION  
SCALE 1/2" = 1'-0"



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

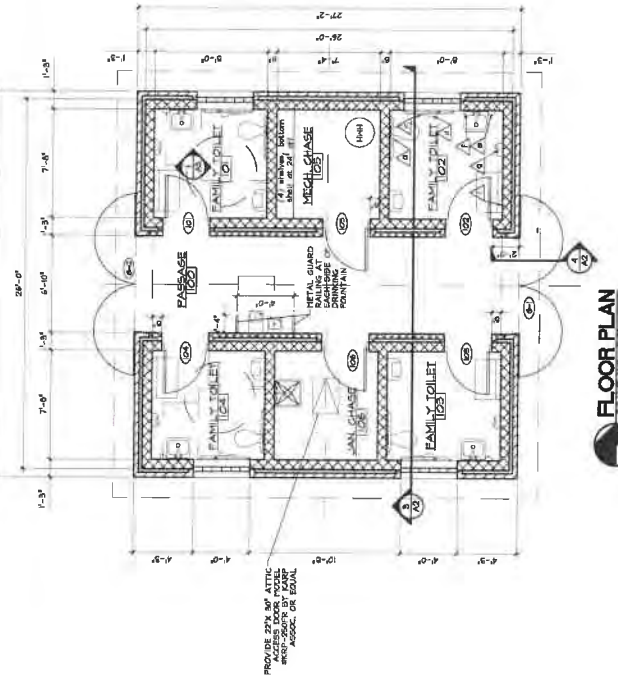
# BEECHWOOD PARK PHASE 1 IMPROVEMENTS

Holland Charter Township, MI

MCSA GROUP, INC.  
Landscape Architecture • Parks & Recreation Planning • Architecture  
4400 West 13th Street, Suite 200, Holland, MI 49424  
616.844.2242 • FAX 616.844.2241 • WWW.MCSAGROUP.COM

SCALE:  
AS SHOWN

## Exterior Elevations, Sections



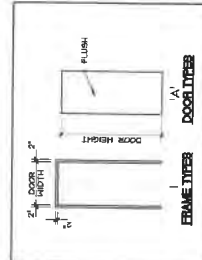
**ROOF PLAN**  
SCALE 1/4" = 1'-0"

## FLOOR PLAN


ACCESSORY SCHEDULE		
<p>▶ <b>CONCRETE SIGN</b></p> <p>HORIZONTAL BASES, TOP AT 36"-48" AFF, VERTICAL BASE CENTER LINE 36" FROM FACE OF CURB OR BACK WALL &amp; BOTTOM AT 36" AFF.</p>	<p>▶ <b>ROAD SIGN</b></p> <p>POINTING HEIGHT: 40" MAX.</p>	
<p>▶ <b>TOILET TRUNK DISPENSER</b></p> <p>40" AFF MAX. TO CENTERLINE OF DISPENSER. REAR EDGE OF DISPENSER TO CENTERLINE OF WATER CLOSET (DISPENSER MUST BE 12" (MIN.) BELOW THE GRAB BAR.)</p>	<p>▶ <b>DISPENSER</b></p> <p>40" AFF MAX. TO CENTERLINE OF DISPENSER</p>	
<p>▶ <b>SIGNAGE MOUNT (VERTICAL)</b></p> <p>POINTING HEIGHT = 36" AFF (TO TOP OF UNIT) HEIGHT = 27" AFF (TO TOP OF UNIT)</p>	<p>▶ <b>PAID DRIVER</b></p> <p>POINTING HEIGHT: 40" MAX. TO CENTERLINE OF SIGN</p>	
<p>▶ <b>CONTRIBUTOR</b></p> <p>POINTING HEIGHT: 64" AFF</p>	<p>▶ <b>PAID FREE RIDE</b></p> <p>DISPENSER SIGN 60"-64" A.F.F. COMPLIANCE SIGN 60"-64" A.F.F. SEE DETAIL THIS SHEET</p>	
<p><b>NOTE:</b> ALL TOILET DISPENSERS AND ACCESSORIES IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE OF CALIFORNIA'S 2004 A.D.A. AND ADOPTED ICC A117.1 - 2004 STANDARD FOR BARRIER FREE ACCESSIBILITY</p>	<p>▶ <b>PAID CHAIRMAN STATION</b></p> <p>POINTING HEIGHT: 34" AFF TO SHEET</p>	

[illegible][illegible]

DOOR SCHEDULE							
NO.	SIZE	DOOR		FRAME		TYPE	FINISH
		TYPE	MAT.	TYPE	MAT.		
01	0' 0" X 7' 2"	A	1 1/2"	PAINT	1 1/2"	PAINT	PAINT
02	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
03	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
04	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
05	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
06	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
07	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
08	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
09	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT
10	0' 0" X 7' 2"	X	1-3/4"	A	1 1/2"	PAINT	PAINT



WALL TYPE8


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

# BEECHWOOD PARK PHASE 1 IMPROVEMENTS

**MCSA GROUP, INC.**  
Landmark Architecture • Mark & Associates Planning • Architects  
Development Planning • Interior Design • Sports Facility Planning  
180 Commercial Avenue S.E. • West Grand Rapids, MI 49508  
(616) 941-0044 • FAX: (616) 941-1958 • TELEX: 251444

**SCALE:**

## Floor/ Roof Plans, Schedules

DATE	PROJECT NO.
08.30.2024	2120
REV/ISSUES	SHEET NO.
	A1

# 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: 07/2024

Date Prepared: 01/17/2023

**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.

**Project Cost:** \$ 95,000.00

**Potential Funding Sources:**

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"

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



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	<ul style="list-style-type: none"><li>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.</li><li>To remove (1) backstop.</li><li>To install (1) 20'x30'x20' backstop with a finished height of 20' above grade. Backstop to be 20' vertical, with no overhang.</li></ul>	\$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



FENCING THE "Wright" WAY





# 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: 07/2025

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, other park projects planned for Fish Hatchery Park.

**Project Cost:** \$ 45,000.00

**Potential Funding Sources:**

General Fund  
Grant funds if combined with other projects

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Tangle Town Rehab or Reconstruction

Project ID #: \_\_\_\_\_ CIP ID #: P-4

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.

Tangle Town is located within Bob King Park. This project would include significant rehab of the structure or replacement.

**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 years. The structure has become more difficult to maintain and residents complain of splintering wood.

**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.

No

**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:**

MDNR Recreation Passport Grant  
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: 07/2024

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:

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

**Project Cost:** \$ 20,000.00

**Potential Funding Sources:**

General Fund

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"

**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: 07/2024

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

**Potential Funding Sources:**

General Fund

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"

**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: 07/2025

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:** \$ 125,000.00

**Potential Funding Sources:**

General Fund

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"

**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: 08/2025

Date Prepared: 02/17/2023

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

Includes wetland study, engineering and construction of open channel outlet to creek north, with a non-motorized bridge

**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 too 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:** \$ 150,000.00

**Potential Funding Sources:**

DNR park or wetland grants

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"

**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 #: 4 CIP ID #: P-15

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:

No.

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

**Project Cost:** \$ 100,000.00

**Potential Funding Sources:**

General Fund

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"

**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:

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

**Project Cost:** \$ 60,000.00

**Potential Funding Sources:**

General Fund  
MDNR Grant

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"

**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: 07/2026

Date Prepared: 03/02/2023

**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:** \$ 20,000.00

**Potential Funding Sources:**

General Fund  
Potential grants

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"

**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

**Potential Funding Sources:**

General Fund  
MDNR Rec Passport Grant

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"

**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: 07/2023

Date Prepared: 01/30/2023

**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:

no

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

**Potential Funding Sources:**

General Fund

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"

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

<b>Library</b>		
L-1	Window/HVAC Replacement	1,200,000
<b>Total Library</b>		1,200,000

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Window Replacement Project

Project ID #: \_\_\_\_\_

CIP ID #: L1

Department: Library

Anticipated Start Date: 09/2023

Date Prepared: 02/13/2023

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

All 336 windows will be replaced with highly efficient triple pane windows. The whole interior of the building will be painted after the installation. Much of the landscaping around the building will need to be removed to allow access to the windows. It will be replace/repared after the windows are in place.

As part of the project the HVAC system will be evaluated as to how much of it needs to be



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

The exterior windows have become foggy/discolored because of a design flaw. They continue to worsen including allowing moisture to condensing on the outer pane inside the windows and run down to the base of the windows. This is not repairable.

Since the drywall and paint will be damaged when the windows are removed, we will need to paint once the windows are in place and the drywall is repaired. The building hasn't been painted



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

The project has been include on the CIP for at least five years.

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

No

**Project Cost:** \$ 1,200,000.00

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:**

Committed fund balance  
Family foundation grants  
Corporate donations  
State grant(s)  
Private donations

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

Christman construction quote  
Painting quote  
Landscaping quote  
These documents were attached to the  
Library CIP application for 2022.



## Library Window Project, Continued

### Project Description:

All 336 windows will be replaced with highly efficient triple pane windows. The whole interior of the building will be painted after the installation. Much of the landscaping around the building will need to be removed to allow access to the windows. It will be replace/repared after the windows are in place.

As part of the project the HVAC system will be evaluated as to how much of it needs to be replaced to meet the increased demand, since the new windows will not insulate as well as the old ones. The two roof top units will definitely be replaced.

### Project Need:

The exterior windows have become foggy/discolored because of a design flaw. They continue to worsen including allowing moisture to condensing on the outer pane inside the windows and run down to the base of the windows. This is not repairable.

Since the drywall and paint will be damaged when the windows are removed, we will need to paint once the windows are in place and the drywall is repaired. The building hasn't been painted in fifteen years. There are a many nicks and dents in the walls, so we want to take this opportunity to paint the whole building, so the color will be the same all over.

The HVAC roof top unites have reached their life expectancy. They break down fairly regularly and need to be replaced. More efficient new units will meet the building's demands for many years to come.

## Scapes

4390 W. Hickory Rd.  
Hickory Corners, Mi. 49060

## Estimate

Date	Estimate #
11/3/2021	411

Name / Address
Hastings City Library 227 E State St. Hastings, MI 49058

			Project
Description	Qty	Cost	Total
<p>Landscape Update - Includes installation of (4) Limelite Hydrangea trees, (2) 10' Blue Point Juniper, (11) Dark Pink Knock Out Rose, (12) May Night Salvia, (5) Wine and Roses Weigela, (6) Stella De Oro Daylillies, (10) Pink Creeping Phlox, (2) yards of garden soil, (18) yards of shredded hardwood mulch to uniformly cover previously mulched area, and watering in new plantings.</p> <p>The Hydrangea trees will replace the (4) Crabapple trees. The roses will replace the small evergreen Yews. The Blue Point Junipers will replace the large upright Arborvitae. The Salvia and Daylilies will accent the roses. The Weigela will replace the large Viburnum and small shrubs between the upright Arborvitae, tying the look together. The Creeping Phlox will add another slow growing, pretty addition in the Spring.</p>		4,830.00	4,830.00
Please sign and return with 50% deposit to schedule work and reserve materials.		<b>Total</b>	\$4,830.00

Customer Signature \_\_\_\_\_



# H & H Painting Company, Inc.

Commercial – Institutional – Industrial

1738 N. Westnedge Avenue, Kalamazoo, MI 49007-1715

Phone: 269.342.2465 Fax: 269.342.2052

Kalamazoo – Grand Rapids

August 20, 2021

Brian Crissman  
The Christman Company

RE: Hastings Public Library  
Painting Budget

Dear Brian:

Following is budget pricing for patching and repainting all walls only on the interior of the library.

Paint (1) coat to match existing colors	\$24,000.00
---	-------------

Paint (2) coats color change	\$37,600.00
------------------------------	-------------

I have not figured painting any ceilings, doors, frames or stair steel.

Please contact me with any questions.

Sincerely,

H & H Painting Co., Inc.

Chad Sisco

*Applied with Pride*

[www.hhpaintingco.com](http://www.hhpaintingco.com)

PROJECT COST SUMMARY

**Hastings Public Library**

Budget Summary

Hastings, MI

Concept

Revision No.: 00

July 19, 2021

Discipline		6,432 GSF	\$	122.67 /GSF	\$	788,999
WC 18 Window Glazing	A.G.M.		\$	101.06 /GSF	\$	650,000
WC 27 HVAC & Plumbing	B&V Mech		\$	21.61 /GSF	\$	139,000
<b>Direct Trade Cost Total:</b>		<b>6,432 BGSF</b>	<b>\$</b>	<b>122.67 /GSF</b>	<b>\$</b>	<b>789,000</b>
CM Construction Contingency:		10.00%			\$	78,000
CM Fee:		10.00%			\$	78,000
	<i>Subtotal CM Services:</i>	6,432 BGSF	\$	24.25 /GSF	\$	156,000
CGL Insurance:		0.75%			\$	7,088
	<i>Subtotal Insurances:</i>	6,432 BGSF	\$	1.10 /GSF	\$	7,088
Building Permit & Plan Review Fee's:		LSUM			\$	3,000
	<i>Subtotal Permits:</i>	6,432 BGSF	\$	0.47 /GSF	\$	3,000
<b>Services, Insurance, and Permit Total:</b>		<b>6,432 BGSF</b>	<b>\$</b>	<b>25.82 /GSF</b>	<b>\$</b>	<b>166,088</b>
<b>Total Construction Estimate:</b>		<b>6,432 BGSF</b>	<b>\$</b>	<b>148.49 /GSF</b>	<b>\$</b>	<b>955,088</b>
<b>WC Notes</b>						

**WC 18**

Approximately 4,000 SF of high performance (Triple-Glazed) CW system, i.e. "Best"

Approximately (6) new aluminum entrance doors w/ new hardware

Approximately (4) concealed vent windows

Remove / salvage and re-install (11) aluminum sunshades

**WC 27**

RTU-I 30 ton Rtu - \$62,000

RTU-I 15 ton Rtu - \$36,000

Boiler replacment - \$45,000

Rough cost, would need to make site visit for a more accuret budget number

<b>Water/Sewer Department</b>		
WS-1	Well 4 Building Repair	35,000
WS-2	Chlorine Detector at Water Plant	13,800
WS-3	Well 3 Upgrade	80,000
WS-4	Water Plant HVAC Improvements	100,000
WS-5	Chlorinator 2 Upgrade	40,000
WS-6	VFD Programming Upgrade	18,000
WS-7	Water System Radio Upgrades	39,000
WS-8	Water Plant Ground Storage Fill Flow Meter Replacement	10,000
WS-9	Booster Station Upgrade	16,500
WS-10	Water Reliability Study	20,000
WS-11	Construct new elevated storage tank	3,000,000
WS-12	Air Scrubber Media Replacement	14,000
WS-13	North Primary Clarifier Mechanism Replacement	100,000
WS-14	Add press to SCADA controls	50,000
WS-15	Screw Addition to Sludge Press	150,000
WS-16	Increase Thickener Capacity	300,000
WS-17	Additional Blower	60,000
WS-18	Railroad St Lift Station Engineering & Replacement	584,000
WS-19	Green/Market St. Sanitary Sewer Replacement (Broadway to Fish Hatchery Park/State St to Green St)	4,772,242
WS-20	Sanitary Sewer Televising Program	252,000
WS-21	Marshall St. Water Main Replacement & LSLR Project (Jefferson to West End)	2,122,171
WS-22	Clinton St. (east)/Dibble Water Main Replacement/Transmission Improvements (Hanover/M37 to State St)	3,396,314
WS-23	Clinton St. (west) Water Main & LSL Replacement Project (Michigan to West End), and S Benton St. Sanitary & Storm Sewer Replacement (Clinton to Walnut)	4,163,670
WS-24	Apple Street Sanitary Trunk Sewer Replacement (600' W of Market to Michigan)	2,491,947
WS-25	Lead Service Line Replacements	15,068,000
WS-26	Mill Street Sanitary Replacement (Michigan to Jefferson)	93,143
WS-27	E. Madison Sanitary Replacement	432,319
WS-28	Smoke Testing for Sanitary Sewer I&I	61,000
WS-29	Water Meter Replacement Program	600,000
WS-30	Sanitary Sewer Spot Repairs	78,000
<b>Total Water/Sewer</b>		<b>38,161,106</b>

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Well 4 Building Repair

Project ID #: \_\_\_\_\_ CIP ID #: WS-1

Department: Water Anticipated Start Date: 07/2024

Date Prepared: 03/06/2023

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

Repair the brick and mortar on the exterior of the building.

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

The bricks and mortar on the outside of this building are crumbling and showing signs of failure.

**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:** \$ 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: Chlorine Detector - WTP Basement

Project ID #: \_\_\_\_\_

CIP ID #: WS-2

Department: Water

Anticipated Start Date: 07/2023

Date Prepared: 03/02/2023

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

Install a chlorine detector with remote alarm and readout in the basement of the water plant.

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

Provide additional safety for employees and service workers that will enter the basement. A gas chlorine line runs across the ceiling. This system would alert staff to any leaks.

**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:** \$ 13,800.00

**Potential Funding Sources:**

Water & Sewer Fund

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"

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

Quote



# QUOTATION

Quote #: CO- 18005

## RS Technical Services, Inc.

695 Lincoln Lake Ave.  
Lowell, Michigan 49331  
(616)-897-7041 Fax (616)-897-3015

Date: 9/7/2022

Job No:

To: HASTINGS WTP (Ship to City Hall)

Ship To:

101 MILL STREET

HASTINGS MI 49058

Attn:

Attn:

Phone: (269) 945-233

Fax: (269) 948-387

Shipping Options: ☐ No Partials ☐ Partials FOB SHIPPING POINT

Item#	Qty	Part Number	SAP	Description	Unit Price	Amount
1	1	W2T11702		BASE,DUAL POINT ACUTEC 35 ; 85-255 VAC	716.49	716.49
2	1	U29361	W2T11692	WALLACE & TIERNAN ACUTEC-35 Chlorine Gas Monitor includes monitor module showing PPM concentration, and remote Chlorine sensor/transmitter	1663.00	1663.00
3	1	8002.14		Gemini Control Panel w/ (2) Gravity Mount Terminator Actuators with 6 ft. Cables. Also Includes (2) wall mount storage brackets, (1) remote emergency shutoff switch (panic button), and (1) Operation & Maintenance Manual.	10355.00	10355.00
4	4	LABOR		INCLUDES: FIELD SERVICE HOURS, TRAVEL TIME, AND MILEAGE	142.00	568.00
5	1	NOTE		Maintenance/Electrician will install and we will start up system	0.00	0.00

Subtotal: \$13,302.49

Estimated Shipping Charges \$100.00

Sales tax: \$0.00

Total: \$13,402.49

Net 30 Day Customers: Please email / fax us your purchase order or indicate your PO #, SIGN and email sales@rstechnicalservices.com or fax back to us so we can proceed with your order.

YOUR PURCHASE ORDER NO.:

Visa/MC Customers: Please complete the form below, SIGN, and fax back to us so we can proceed with your order.

Name on Card:	3-Digit Security Code:	<input type="checkbox"/> Visa
Card Number:	<input type="checkbox"/> Master Card	
Exp. Date:		

PLEASE REFERENCE THIS CO NUMBER WHEN PLACING ORDER - MINIMUM ORDER \$25.00 - EXCLUDING SHIPPING

This quotation is valid for 30 days and subject to the attached terms and conditions. Thereafter it is subject to change without notice. Quoted pricing and discounts are predicated on receiving a single order for the quantities as listed. Order deviations may result in price or discount changes. All freight is prepaid and added to invoices. "Destination" customers: add freight charge to any parts price before issuing your purchase order. All returns subject to 25% restocking fee. Credit Card Order minimum is \$100.00. Thank you for this opportunity to quote.

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Authorized  
Signature:

Date:

Quoted By: Jared Roberts

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Well 3 Upgrade

Project ID #: \_\_\_\_\_ CIP ID #: WS-3

Department: Water Anticipated Start Date: 07/2023

Date Prepared: 02/07/2023

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

Well 3 complete tear down and service. Upgrade to VFD and Install Meter to monitor water usage. upgrade SCADA Controls. We maintain our wells on a 5 year basis. This well needed to be serviced in 2020. We were waiting on EGLE permit approval.

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

Project is needed to increase design flow capacity of the well from 1000 gpm to 1400 gpm. This will match the flows of our plant high service pumps allowing this well to maintain without the need to call another well online to maintain wet well level. This will also install a meter on the well providing flow monitoring for EGLE. Upgrading the SCADA controls to add functionality of maintaining a consistent wet well level and monitoring temperature of the water and the building. +

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

This project was approved by council in early 2020.

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

No

**Project Cost:** \$ 80,000.00

**Potential Funding Sources:**

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Water Plant HVAC and Mechanical Improvements

Project ID #: 14 CIP ID #: WS-4

Department: DPS Anticipated Start Date: 07/2023

Date Prepared: 02/17/2023

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

Develop a list of furnaces, air conditioners, fans, etc. for the building that require replacement.

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

Many components to the building (non-water operation) are original or old, leading to costly repairs. They need to be replaced with more efficient and modern equipment.

**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.

**Project Cost:** \$ 100,000.00

**Potential Funding Sources:**

water sewer fund

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Chlorinator #2 Upgrade

Project ID #: \_\_\_\_\_

CIP ID #: WS-5

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 reservoir suction line to boost chlorine residuals at the reservoir 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 reservoir 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:

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

**Project Cost:** \$ 40,000.00

**Potential Funding Sources:**

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: VFD Programming Upgrades

Project ID #: \_\_\_\_\_

CIP ID #: WS-6

Department: Water Plant

Anticipated Start Date: 07/2024

Date Prepared: 02/15/2023

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

Create logic to monitor and control the VFD's on each plant pump.

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

This would allow us to utilize the VFD's to manipulate the pump runs start and stops to improve efficiency and effectiveness of our pumps. Allowing us to designate a specific flow or increase and decrease capacity due to specific needs (fireflows, tank demands, hydrant flushing, water main breaks). Will enable the pumps to not exceed our filter capacity even when demand is increased.

**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:** \$ 18,000.00

**Potential Funding Sources:**

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Radio Upgrades for Water System

Project ID #: \_\_\_\_\_ CIP ID #: \_\_\_\_\_

Department: Water Anticipated Start Date: 07/2023

Date Prepared: 02/15/2023

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

Upgrade all radios to new Series GE radios (8 units).

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

Current radios are no longer supported. parts are limited and will become hard to find for replacements.

**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:** \$ 19,000.00

**Potential Funding Sources:**

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"

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



# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replace Water Plant Ground Storage Fill Flow Meter

Project ID #: \_\_\_\_\_ CIP ID #: \_\_\_\_\_

Department: \_\_\_\_\_ Anticipated Start Date: 07/2023

Date Prepared: 02/15/2023

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

Replacement of non-functioning flow meter.

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

This meter measures the flow of water into our ground storage reservoir. The meter is no longer functional and needs to be replaced. The meter is used to monitor the water flow between the distribution system and the reservoir to maintain water tower levels and fill the reservoir at the same time. Without this meter, we do not have readings on how much water is put into the ground storage reservoir.

**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:** \$ 10,000.00

**Potential Funding Sources:**

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Booster Station Upgrade

Project ID #: \_\_\_\_\_

CIP ID #: WS-9

Department: Water

Anticipated Start Date: 07/2023

Date Prepared: 03/02/2023

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

Replace two, low flow pumps with new, HP pumps, VFDs, and programming to maintain a specific pressure and alternate use between the pumps.

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

Will allow us to maintain pressure instead of each pump cycling on and off constantly. This would improve efficiency and be less pressure on the pumps. The pump has already had to be replaced twice. The VFDs will allow us to maintain more consistent pressure and increase the longevity of the motor.

**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:** \$ 16,500.00

**Potential Funding Sources:**

Water/Sewer Fund

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"

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



QUOTATION

City of Hastings  
Water Department  
Attn: Verne Robbins

QUOTE # RWM 2022-0330

DATE March 30, 2022

REFERENCE **Booster Station Small Booster Pump and VFD addition**

Prepare and submit EGLE Act 399 permit to increase pump size and add VFDs plans and specs as required by EGLE. \$350.00

**Replacement Pump:**

New pump to replace small booster: Paco (formerly Grundfos) end suction pump Paco cat# 10-20501-130001-1681P, size 2" x 2.5" NPT, BF close coupled end suction pump w/ std. mech seal and 5HP 3/60/230-460V 3500 RPM ODP prem eff motor. Rated 200 gpm @ 52 ft. TDH. Nickel Aluminum impeller for chlorinated water pumping. \$2,777.83

Labor and materials for mechanical to modify piping and pipe in new pump (allowance, not to exceed), megaflanges, pipe spool, pipe nipples, companion flanges. \$3,750.00

**VFD additions to small booster pumps:**

For two(2) 5 HP pumps: Supply 5 HP 460 Volt Allen Bradley Powerflex 400 VFDs, line reactors, motor protector breaker, ethernet cards, ethernet switch, cables, etc. \$7,074.00

Labor and programing to remove old equipment, install VFD, startup and test \$2,500.00

**Total: \$16,451.83**

ACCEPTED BY \_\_\_\_\_  
TITLE \_\_\_\_\_  
DATE \_\_\_\_\_

PEERLESS-MIDWEST, INC.

  
Bob Masters, Project Manager

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Water Reliability Study

Project ID #: 12 CIP ID #: WS-10

Department: DPS Anticipated Start Date: 07/2024

Date Prepared: 03/02/2023

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

Water Reliability Study to analyze the capacity and condition of the entire water system.

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

This study is useful for capital planning. It is required by EGLE every five years.

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

Required by EGLE every five years.

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

No

**Project Cost:** \$ 20,000.00

**Potential Funding Sources:**

Water/Sewer Fund

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"

**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 #: 13

CIP ID #: WS-12

Department: DPS

Anticipated Start Date: 07/2028

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

**Potential Funding Sources:**

Water & Sewer Fund  
Federal & State Loans

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Air Makeup Media Replacement

Project ID #: \_\_\_\_\_

CIP ID #: WS-12

Department: Wastewater

Anticipated Start Date: 07/2023

Date Prepared: 02/17/2023

**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:** \$ 14,000.00

**Potential Funding Sources:**

Water/Sewer Fund

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"

**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 #: WS-13

Department: Wastewater Anticipated Start Date: 01/2024

Date Prepared: 02/16/2023

**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:** \$ 100,000.00

**Potential Funding Sources:**

Water/Sewer Fund

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Add press to SCADA controls and third screw

Project ID #: \_\_\_\_\_

CIP ID #: WS-14

Department: WWTP

Anticipated Start Date: 07/2025

Date Prepared: 03/03/2023

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

Addition of SCADA controls for alternate control.

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

This will provide an alternate control for the sludge press in case of failure of the current PLC failure.

**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

**Potential Funding Sources:**

Water & Sewer Fund

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Third Screw addition to Sludge Press

Project ID #: \_\_\_\_\_ CIP ID #: WS-15

Department: Wastewater Anticipated Start Date: 07/2026

Date Prepared: 03/03/2023

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

Install third screw in press.

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

This would give us redundancy on our press if we had a failure in one of the two screws. Our press is already designed for a third screw. This will allow us to shut down and pull maintenance on each screw without losing capacity.

**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:** \$ 150,000.00

**Potential Funding Sources:**

Water & Sewer Fund

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Increase Thickener Capacity

Project ID #: \_\_\_\_\_ CIP ID #: WS-16

Department: \_\_\_\_\_ Anticipated Start Date: 07/2025

Date Prepared: 02/16/2023

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

Replace existing thickener tank with a larger one that has greater capacity.

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

Our current thickener has less than optimal capacity. The capacity may need to be approximately doubled. The thickener is 80% full at most times; ideally it would be about 50% full. This would improve the functionality of the wastewater 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:** \$ 300,000.00

**Potential Funding Sources:**

Water & Sewer Fund

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Additional Blower

Project ID #: \_\_\_\_\_ CIP ID #: WS-17

Department: Wastewater Anticipated Start Date: 01/2024

Date Prepared: 02/16/2023

**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:** \$ 60,000.00

**Potential Funding Sources:**

Water/Sewer Fund

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Railroad Street Lift Station Engineering

Project ID #: \_\_\_\_\_ CIP ID #: \_\_\_\_\_

Department: Wastewater Anticipated Start Date: 07/2023

Date Prepared: 03/07/2023

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

Engineering review for replacement or railroad st lift station.

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

Dilapidated lift station has outlived its useful life and needs to be replaced.

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

This project was included in previous CIP from Prein and Newhoff for 2027.

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

**Project Cost:** \$ 60,000.00

**Potential Funding Sources:**

Water & Sewer Fund

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"

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



# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Green/Market St Sanitary Sewer Replacement & Improvements

Project ID #: \_\_\_\_\_ CIP ID #: WS19 & MS7

Department: DPS Anticipated Start Date: 08/2024

Date Prepared: 03/08/2023

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

Replacement of sanitary sewer on Green Street from Broadway to Fish Hatchery Park. Replace lead service lines. Resurface road.

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

Capacity in the sewer main needs to be increased from 10 inches to 12 inches. Sewer main has numerous defects and high consequence of failure. 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 CIPs

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

Yes - multiple infrastructure improvements to be completed as a part of this project.

**Project Cost:** \$ 6,123,829.00

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  
SRF Loan  
USDA-RD Loan  
EDF-B Grant

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

## Project Summary: Green St. and Market St. Sanitary Sewer Replacement

Project No: 23003

### Project Scope:

Primarily sanitary sewer replacement with full storm and street reconstruction. Install 5,000 feet of 12-inch sanitary sewer. Replace 1,000 feet of 8-inch water main in Market Street. Replace 6,000 feet of storm sewer. Full street reconstruct with curb & gutter. Water service line replacements (69 assumed). Rebuild



intersection on Green/Market for traffic safety. Review for additional pedestrian mobility and tree impacts.

**Need:** Replace old clay sanitary sewer with structural failures and infiltration/inflow issues. Insufficient sewer diameter and slope per 2018 flow study. Potential to consolidate parallel sewers on Green Street to improve solids deposition and reduce future system replacement cost. Sanitary failures include cracks, fractures, holes, large roots, exposed aggregate indicating wall corrosion, grease/debris buildup, and velocity/solids deposition. Storm sewer replacement with road reconstruction due to age and condition, but some storm pipes in the project area have not had CCTV inspection. Storm failures found in CCTV'd pipes include utility penetrations, cracks, fractures, and deformed pipe. Replace old cast iron water pipes on Market Street at the end of their useful lifecycle with breaks noted. Water main on Green is assumed in good condition and 1970's ductile iron. All water service lines are assumed to require replacement per State of Michigan requirements. City's 2016 Bike Master Plan recommended 10.5' drive lines with 4' bike lanes with road reconstruction.

**Planned Year: 2023**

**Anticipated Project Costs:**

Local Street Fund	\$1,313,000
Sanitary Fund	\$3,004,000
Water Fund	\$1,373,000

### Potential Funding Sources:

City Sanitary/Water/Storm/Street Funds.  
Low interest loans CW/DWSRF or USDA-RD  
programs. Street grants MDOT Small  
Urban or TEDF-B programs.

# 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: 07/2023

Date Prepared: 03/08/2023

**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:** \$ 252,000.00

**Potential Funding Sources:**

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

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"

**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 #: WS-21 and LS-1

Department: DPS Anticipated Start Date: 07/2025

Date Prepared: 03/09/2023

**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:** \$ 2,316,000.00

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  
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 #: WS-22 and MS-9

Department: DPS Anticipated Start Date: 07/2025

Date Prepared: 03/09/2023

**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:** \$ 3,828,160.00

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.):**



## Project Summary: Clinton St. (East)/Dibble Water Main Improvements

Project No: 25002

### Project Scope:

Water main extension/replacement with full street reconstruction and sanitary sewer replacement. Install 1,100 feet 12-inch and 3,200 feet 8-inch water main. Extend water main on Dibble from Madison to Clinton. Replace 2,500 feet 8-inch sanitary sewer and 2,800 feet storm sewer. Full street reconstruct with curb & gutter and sidewalk. Water service line replacements (45 assumed).



**Need:** Replace old cast iron water pipes with insufficient diameter and frequent breaks at the end of their useful lifecycle. Finish a transmission loop partially completed in 2020 as recommended in the 2018 Water System Reliability Study. Increasing pipe diameter will greatly improve available fire flow and system reliability. Existing water mains (8"/6"/4") are undersized and experience frequent breaks. The 1926 clay sanitary sewer is in poor to failing condition with broken pipes, holes, fractures, and cracks. All water service lines are assumed to require replacement per State of Michigan requirements. City's 2016 Bike Master Plan recommended 10' drive lanes with 4' bike lanes and an 8' parking lane with road reconstruction. Project to fill gaps in the existing sidewalk network on north side of Clinton.

**Planned Year: 2025**

### Anticipated Project Costs:

Local Street Fund	\$432,000
Sanitary Fund	\$998,000
Water Fund	\$2,221,000

### Potential Funding Sources:

City Sanitary/Water/Storm/Street Funds. Low interest loans DWSRF or USDA-RD programs. MEDC utility grants. MDOT Small Urban or TEDF-B programs.

# 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 #: WS-23 and MS-10

Department: DPS Anticipated Start Date: 07/2025

Date Prepared: 03/09/2023

**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:** \$ 4,431,000.00

**Potential Funding Sources:**

Water/Sewer Funds  
DW/CWSRF  
USDA Loan

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Apple Street Sanitary Truck Sewer Replacement

Project ID #: \_\_\_\_\_

CIP ID #: WS-24

Department: Sewer

Anticipated Start Date: 07/2026

Date Prepared: 03/09/2023

**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:** \$ 2,491,947.00

**Potential Funding Sources:**

MEDC infrastructure grant  
Water/Sewer Funds

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Lead Service Line Replacements

Project ID #: \_\_\_\_\_ CIP ID #: WS-25

Department: Water Anticipated Start Date: 07/2026

Date Prepared: 03/08/2023

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

System wide lead service line replacements to comply with state standards

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

Replacement of all lead service lines is required within the next 17 years. The city must average 5% replacement per year.

**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:** \$ 15,068,000.00

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 loan  
Water/Sewer Funds

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

# City of Hastings – Capital Improvement Plan Project Application Form



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

Project ID #: \_\_\_\_\_

CIP ID #: WS-26 and LS-5

Department: Sewer

Anticipated Start Date: 07/2026

Date Prepared: 03/09/2023

**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:** \$ 93,143.00

**Potential Funding Sources:**

Water/Sewer Funds  
Local Streets Fund

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"

**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 #: WS-27

Department: Sewer Anticipated Start Date: 07/2028

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:** \$ 433,000.00

**Potential Funding Sources:**

Water/Sewer Funds

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"

**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: 03/08/2023

**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:** \$ 61,000.00

**Potential Funding Sources:**

Water/Sewer Fund

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"

**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: 07/2023

Date Prepared: 03/08/2023

**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:** \$ 600,000.00

**Potential Funding Sources:**

Water/Sewer Funds  
(200K per 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"

**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 #: WS-30

Department: Sewer

Anticipated Start Date: 07/2028

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:** \$ 78,000.00

**Potential Funding Sources:**

Water/Sewer Fund

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"

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

**Streets**

MS-1	State Rd Resurfacing	274,954
MS-2	Michigan Ave Bridge Maintenance	50,000
MS-3	E. Grand Street mill & resurface	700,000
MS-4	State St Storm Sewer Replacement	400,000
LS-1	Road Gravel	10,000
LS-5	Mill St (Michigan to Jefferson)	10,388
MS-5	Boltwood Storm Sewer Replacement	30,000
MS-6	E. Grand Street storm sewer replacement	210,000
	Green/Market St. (Broadway to Fish Hatchery Park/State	
MS-7	St to Green St)	1,351,587
LS-1	Marshall St. (Jefferson to West End)	193,194
MS-9	Clinton St. (east)/Dibble (Hanover/M37 to State St)	431,846
	Clinton St. (west) (Michigan to West End), and S Benton	
MS-10	Storm Sewer Replacement (Clinton to Walnut)	267,062
S-1	Storm Sewer Televising Program	366,000
S-2	Storm Sewer Spot Repairs	38,807
<b>Total Streets</b>		<b>4,333,838</b>



## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: State Road Resurface

Project ID #: 3

CIP ID #: MS-1

Department: DPS

Anticipated Start Date: 07/2023

Date Prepared: 02/17/2023

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

Mill and Pave 3.5" of HMA from Glenwood to Broadway Avenue. Also replace miscellaneous curb and gutter and paint striping.

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

Road surface deterioration. High traffic road/main thoroughfare to the City.

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

Yes - local TIP

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

No

**Project Cost:** \$ 274,954.00

**Potential Funding Sources:**

Small Urban Grant (\$231,204)  
Local match is (\$43,750)

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"

**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 #: \_\_\_\_\_

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

**Potential Funding Sources:**

Major Streets Fund

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: East Grand Street (Hanover to State)

Project ID #: 11

CIP ID #: MS-3

Department: DPS

Anticipated Start Date: 07/2028

Date Prepared: 02/17/2023

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

Mill and pave 3.5" of HMA, replace curb and gutter and sidewalk ramps.

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

Existing roadway is deteriorated. Road experiences relatively high traffic volumes including truck traffic.

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

Yes, engineering was started but the project was shelved due to expense.

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

No

**Project Cost:** \$ 700,000.00

**Potential Funding Sources:**

Small Urban Grant (\$375,000)  
Major Streets Fund (remaining balance)

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"

**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 #: 9

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

**Potential Funding Sources:**

Major Street Fund  
Potential DDA Funds

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"

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: 07/2023

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

**Potential Funding Sources:**

Local Streets Fund

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"

**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-5

Department: MS-5 Anticipated Start Date: 07/2023

Date Prepared: 03/10/2023

**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:

Prior CIP

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

No

**Project Cost:** \$ 30,000.00

**Potential Funding Sources:**

Major Streets Fund

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"

**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-6

Department: Major Streets 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

**Potential Funding Sources:**

Major Street Fund

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"

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

# 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: 07/2023

Date Prepared: 03/10/2023

**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:

Prior CIP

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

No

**Project Cost:** \$ 366,000.00

**Potential Funding Sources:**

Major and Local Streets Funds

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"

**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

**Potential Funding Sources:**

Major and Local Streets

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"

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

<b>Cemetery</b>		
RC-2	Riverside Cemetery Reflective Area	100,000
<b>Total Cemetery</b>		100,000



# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Riverside Cemetery Reflective Area

Project ID #: \_\_\_\_\_ CIP ID #: RC-2

Department: Cemetery Administration Anticipated Start Date: 04/2023

Date Prepared: 02/20/2023

**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.

**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.

**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:** \$ 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:**

Cemetery millage  
Committed fund balance

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

none

<b>TIF Funds</b>		
DDA-1	Parking Lot 8 Reconstruction	200,000
DDA-2	State Streetscape Reconstruction	2,800,000
DDA-3	Thornapple Plaza & Spray Plaza Stage Maintenance	15,000
LDFA-1	Semi-Parking Lot Mill & Reshape	30,000
LDFA-2	Mill & Resurface Enterprise Drive	150,000
<b>Total TIF</b>		<b>3,195,000</b>

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Parking Lot 8 Reconstruction

Project ID #: \_\_\_\_\_

CIP ID #: DDA1

Department: DDA

Anticipated Start Date: 07/2023

Date Prepared: 02/20/2023

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

Reconstruct Parking lot #8 consisting of +/- 15,000 sqft.

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

Parking lot 8 was never completed after the purchase of the former Ace Building. The opening of the lofts at 128 increases the need to enhance the parking lot to City zoning standards. A portion of the lot has not ever been paved.

**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:** \$ 200,000.00

**Potential Funding Sources:**

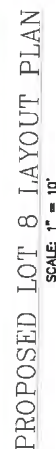
DDA Funds  
General Fund

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"

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

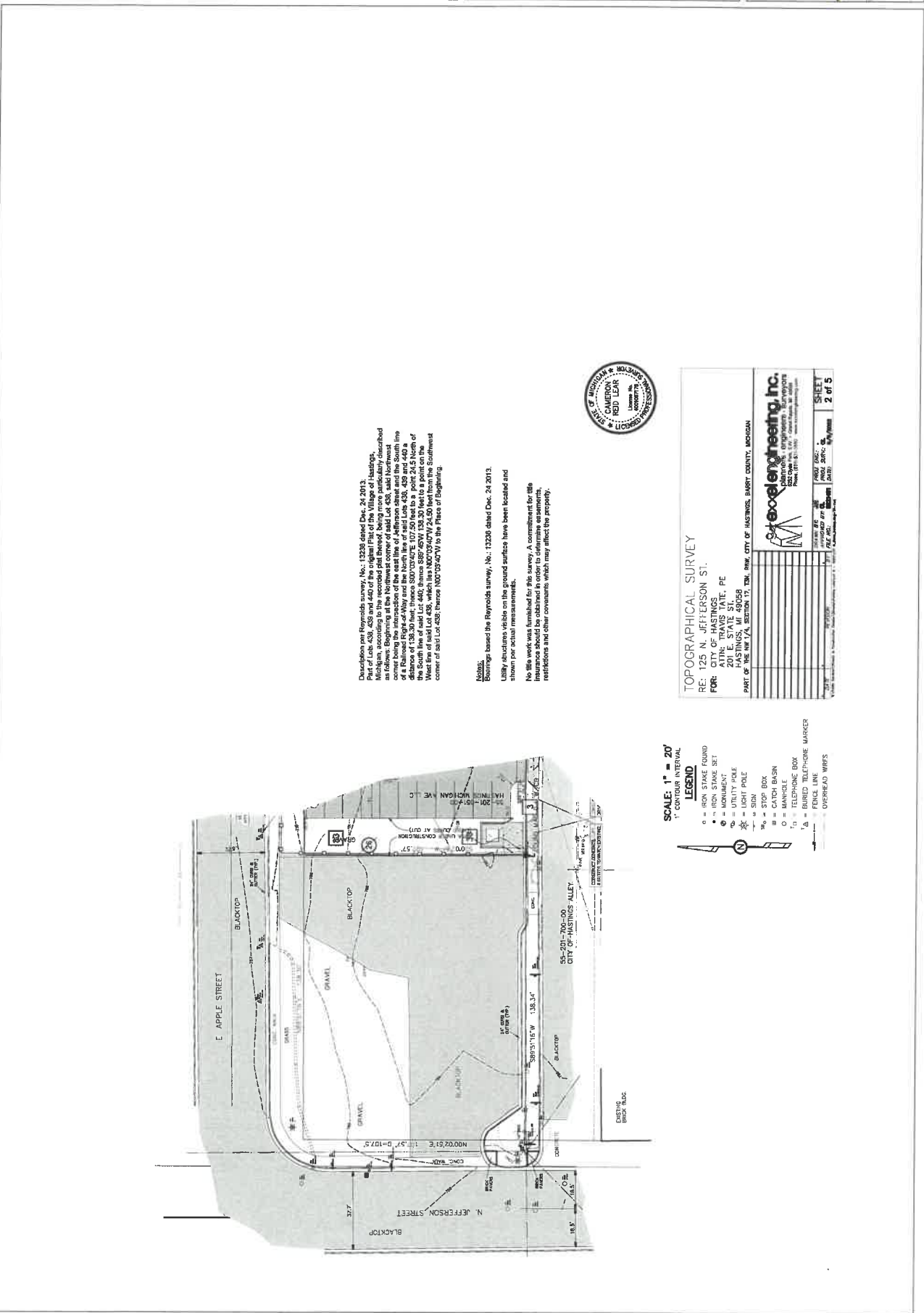
Plan Set



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PROPOSED PARKING LOT & RECONSTRUCTION  
 125 N. JEFFERSON STREET  
 CITY OF HASTINGS  
 201 E. STATE STREET  
 HASTINGS, MICHIGAN 49058  
 EXISTING CONDITIONS



**Notes:**  
 Bearings based on the Raynolds survey, No. 13226 dated Dec. 24, 2013.  
 Utility structures visible on the ground surface have been located and shown per actual measurements.  
 No file work was furnished for this survey. A commitment for title insurance should be obtained in order to determine easements, restrictions and other constraints which may affect the property.



**TOPOGRAPHICAL SURVEY**  
 RE: 125 N. JEFFERSON ST.  
 FOR: CITY OF HASTINGS  
 201 E. STATE ST.  
 HASTINGS, MI 49058  
 PART OF THE NW 1/4, SECTION 17, T2N, R2W, CITY OF HASTINGS, BART COUNTY, MICHIGAN

**Legend:**  
 1" = 20'  
 1" CONTOUR INTERVAL  
 o = IRON STAKE FOUND  
 \* = IRON STAKE SET  
 o = MONUMENT  
 o = UTILITY POLE  
 o = SIGHT POLE  
 o = STOP BOX  
 o = CATCH BASIN  
 o = MANHOLE  
 o = TELEPHONE BOX  
 o = BURIED TELEPHONE MARKER  
 o = FENCE LINE  
 o = OVERHEAD WIRING

**Scale:** 1" = 20'

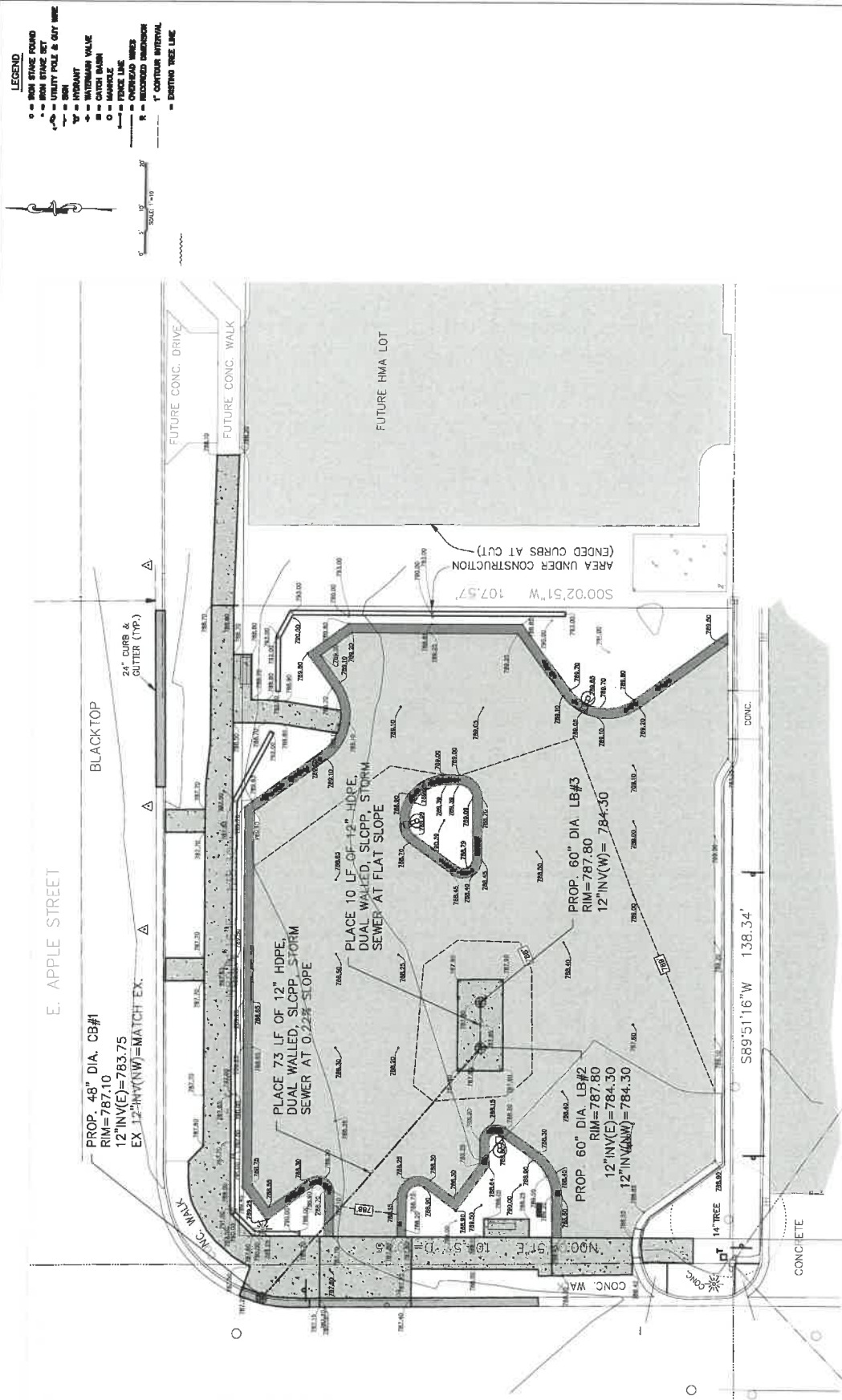
**Legend:**  
 1" CONTOUR INTERVAL  
 o = IRON STAKE FOUND  
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 o = UTILITY POLE  
 o = SIGHT POLE  
 o = STOP BOX  
 o = CATCH BASIN  
 o = MANHOLE  
 o = TELEPHONE BOX  
 o = BURIED TELEPHONE MARKER  
 o = FENCE LINE  
 o = OVERHEAD WIRING

**Sheet:** 2 of 5





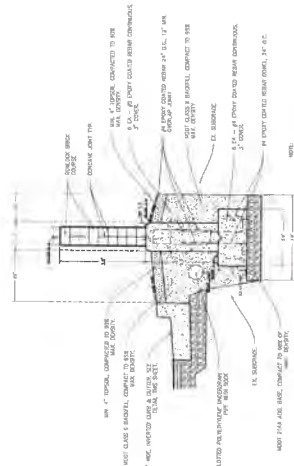




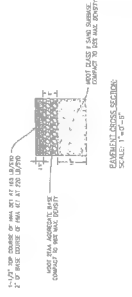
PROPOSED LOT 8 GRADING AND STORM SEWER PLAN  
SCALE: 1" = 10'

- 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 OF CONSTRUCTION OR CONTINUATION OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES IN A MANNER TO MINIMIZE INCONVENIENCE TO ADJACENT BUSINESS AND RESIDENCE.
- 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.
- CONTRACTOR SHALL KEEP ALL FIRE LANES OPEN & ACCESSIBLE DURING CONSTRUCTION AT ALL TIMES.
- 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 ROAD DAMAGE ON THE EXISTING PAVEMENT SYSTEM TO THE SATISFACTION OF THE ENGINEER AND DIRECTOR OF PUBLIC SERVICES.
- CONSTRUCTION ACTIVITIES SHALL BE STAKED AND GRADED UNDER THE SUPERVISION OF A LICENSED SURVEYOR.
- STORM SEWER PIPE SHALL CONFORM TO THE CITY OF HASTINGS STANDARDS, UNLESS APPROVED BY THE DIRECTOR OF PUBLIC SERVICES.
- A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE CONTRACTED TO MONITOR EARTHWORK & PAVING ACTIVITIES.
- STORMWATER SHALL BE COLLECTED AND DISCHARGED TO THE CITY OF HASTINGS STORM SEWER SYSTEM.
- 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.
- ALL DISTURBED AREAS TO BE SEEDDED WITHIN 5 CALENDAR DAYS OF ACHIEVING FINAL GRADE.

DUAL LEACHING USING S N:  
SCALE: 1"=0'-6"



BRICK WALL - CONC. FOUNDATION WALL SECTION:

PAVEMENT CROSS SECTION:  
GRADE: 1.000' - 5.0'

PROPOSED PARKING LOT & RECONSTRUCTION  
125 N. JEFFERSON STREET  
CITY OF HASTINGS  
201 E. STATE STREET  
HASTINGS, MICHIGAN 49058  
DETAIL SHEET



# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: State Street Streetscape Reconstruction

Project ID #: \_\_\_\_\_ CIP ID #: DDA-2

Department: DDA Anticipated Start Date: 03/2023

Date Prepared: 02/20/2023

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

Design & Construction for State St streetscape improvements from Broadway to Boltwood. Improvements to include new light poles, mid-block crosswalks, fireplace, sidewalks, seating, landscaping, and similar amenities.

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

The streetscape was last updated approximately 30 years ago. Approximately half of the trees in the project area have died, sidewalk has heaved, crossings are deteriorated, and a streetlight has blown down in a wind storm. A new streetscape will improve safety and pedestrian oriented infrastructure as well as assist in placemaking and economic development efforts to the core downtown.

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

Master Plan and past CIPs. Currently in development.

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

No.

**Project Cost:** \$ 2,800,000.00

**Potential Funding Sources:**

DDA Fund Balance  
Bonds

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"

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

Cost Estimate  
Concept Plans



Landscape Architecture  
Park & Recreation Planning  
Architecture • Urban Design  
Sports Facility Planning

# CITY OF HASTINGS

## STREETSCAPE IMPROVEMENTS

### ORDER OF MAGNITUDE COST ESTIMATE

November 16, 2022

Description	Unit	No. of Units	Price	Extension
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#### GENERAL CONDITIONS

Mobilization	LS	1	\$40,000.00	\$40,000.00
Insurance, Permits, and Bonds	LS	1	\$12,000.00	\$12,000.00
Layout and Staking	LS	1	\$15,000.00	\$15,000.00
General Conditions (M, O & P@5%)	LS	1	\$98,501.00	\$98,501.00
<b>SUBTOTAL</b>				<b>\$165,501.00</b>

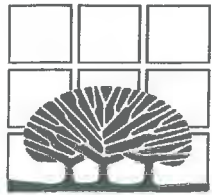
#### REMOVALS/SITE PREPARATION

Paving Removal	SF	46,034	\$3.00	\$138,102.00
Light Removal	EA	62	\$500.00	\$31,000.00
Grading, Soil Erosion, & Sedimentation Control	SY	7,307	\$3.30	\$24,113.10
<b>SUBTOTAL</b>				<b>\$193,215.10</b>

#### PAVING

Concrete Paving	SF	14,836	\$10.00	\$148,360.00
Concrete Sculpture Pedestals	EA	4	\$450.00	\$1,800.00
Colored Concrete	SF	15,640	\$15.00	\$234,600.00
Exposed Aggregate Paving	SF	5,300	\$15.00	\$79,500.00
Concrete Curb and Gutter	LF	473	\$33.00	\$15,609.00
Remove and Replace Planter Curb	LF	559	\$33.00	\$18,447.00
Brick Pavers	LF	1,015	\$45.00	\$45,675.00
Colored Concrete Crosswalks	SF	3,940	\$15.00	\$59,100.00
Truncated Domes	SF	192	\$40.00	\$7,680.00
Bituminous Patch	LS	1	\$20,000.00	\$20,000.00
<b>SUBTOTAL</b>				<b>\$630,771.00</b>





**MCSA**  
GROUP, Inc.

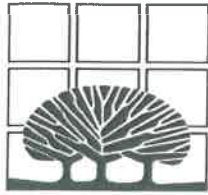
Landscape Architects and Architects  
EAST GRAND RAPIDS • MICHIGAN

Landscape Architecture  
Park & Recreation Planning  
Architecture • Urban Design  
Sports Facility Planning

Description	Unit	No. of Units	Price	Extension
<b>SITE STRUCTURES/AMENITIES</b>				
2' x 6' Planters (with pedestal, soil and irrigation)	EA	16	\$2,235.00	\$35,760.00
4' Diameter Planters (with pedestal, soil and irrigation)	EA	50	\$3,000.00	\$150,000.00
Brick Accent Walls	LF	172	\$250.00	\$43,000.00
Covered Bench	EA	2	\$8,000.00	\$16,000.00
Swing Bench	EA	1	\$10,000.00	\$10,000.00
Repaint/ Replace Trash and Bollards	LS	1	\$25,000.00	\$25,000.00
Picnic Tables	EA	10	\$3,000.00	\$30,000.00
Table and Chair Set with Umbrella	EA	14	\$1,000.00	\$14,000.00
Bike Racks	EA	4	\$300.00	\$1,200.00
Benches	EA	16	\$2,500.00	\$40,000.00
Bollards	EA	20	\$3,000.00	\$60,000.00
Traffic Control Signage	LS	1	\$10,000.00	\$10,000.00
Outdoor Fireplace	LS	1	\$40,000.00	\$40,000.00
Shade Structure	EA	1	\$25,000.00	\$25,000.00
Screen Panels	EA	12	\$5,000.00	\$60,000.00
<b>SUBTOTAL</b>				<b>\$559,960.00</b>

#### SITE UTILITIES

Tall LED Streetlights	EA	12	\$5,000.00	\$60,000.00
Short LED Streetlights	EA	27	\$4,500.00	\$121,500.00
Commercial String Lights	EA	5	\$500.00	\$2,500.00
Electrical Distribution	LF	3,139	\$25.00	\$78,475.00
Electrical Connections	LS	1	\$30,000.00	\$30,000.00
Trench Drain	LF	187	\$110.00	\$20,570.00
Irrigation System and Connections	LS	1	\$75,000.00	\$75,000.00
Gasline to Fireplace	LF	95	\$30.00	\$2,850.00
<b>SUBTOTAL</b>				<b>\$390,895.00</b>



**MCSA**  
GROUP, Inc.

Landscape Architects and Architects  
EAST GRAND RAPIDS • MICHIGAN

Landscape Architecture  
Park & Recreation Planning  
Architecture • Urban Design  
Sports Facility Planning

Description	Unit	No. of Units	Price	Extension
<b>LANDSCAPING</b>				
Deciduous Trees	EA	38	\$700.00	\$26,600.00
Planting Soil for Planters	LS	1	\$8,000.00	\$8,000.00
<b>SUBTOTAL</b>				<b>\$34,600.00</b>
<b>SUBTOTAL</b>				<b>\$1,974,942.10</b>
Design Contongency @ 10%				\$197,494.21
Construction Contingency @ 10%				\$217,243.63
Professional Fees				\$220,000.00
<b>STREETSCAPE TOTAL</b>				<b>\$2,609,679.94</b>

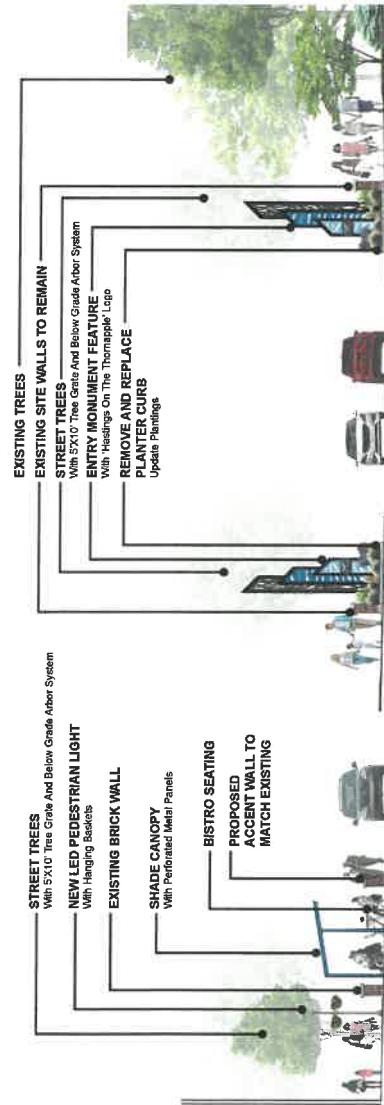
\* Does not include fencing at Resturaunt Area

Evaluations of the Project Budget and Estimates of Construction Cost prepared by MCSA Group, Inc. represents their judgment as design professionals. It is recognized, however, MCSA Group, Inc. has no control over the cost of labor, materials or equipment, nor a contractor's methods of determining bid prices, or over competitive bidding, or market conditions. Accordingly, MCSA Group, Inc. cannot and does not warrant or represent that bids or negotiated prices will not vary from the Project Budget or from any estimate of construction cost or evaluation prepared by MCSA Group, Inc..



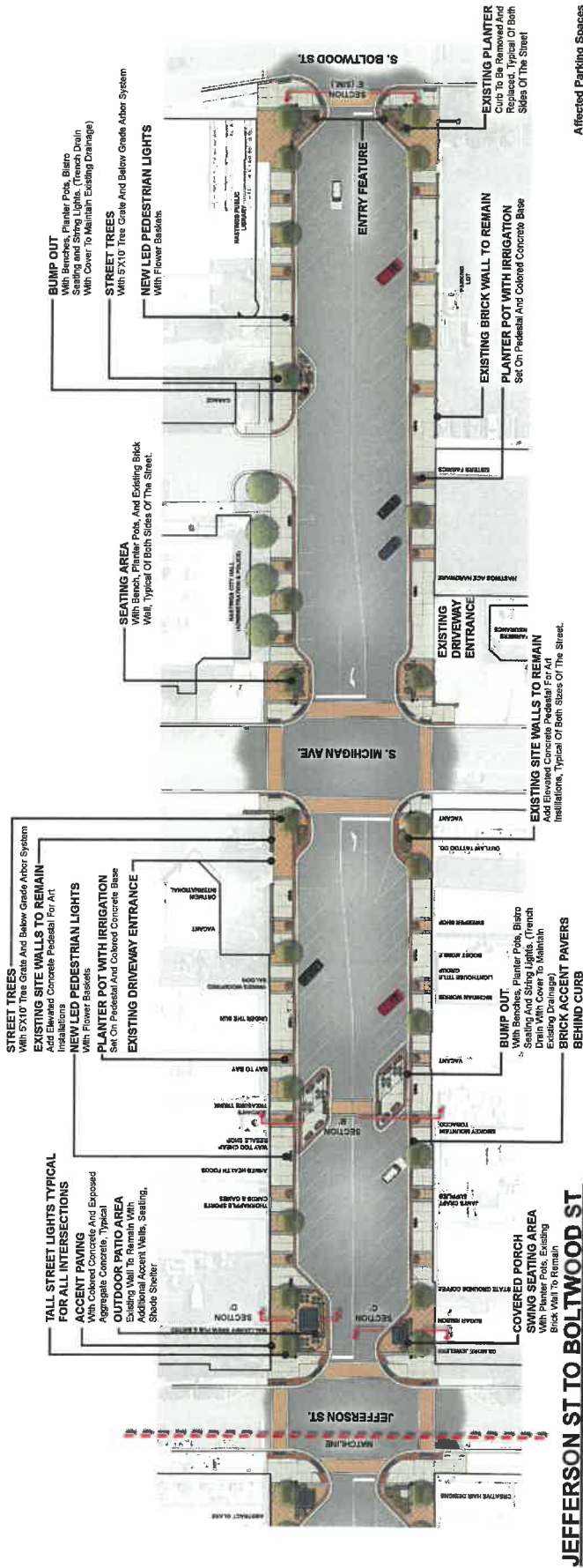


ENTRY FEATURE PERSPECTIVE



SECTION 'D' - ENTRY FEATURE

SECTION 'E' - ENTRY FEATURE



JEFFERSON ST TO BOLTWOOD ST

# MASTER PLAN STATE STREET - STREETSCAPE HASTINGS, MICHIGAN

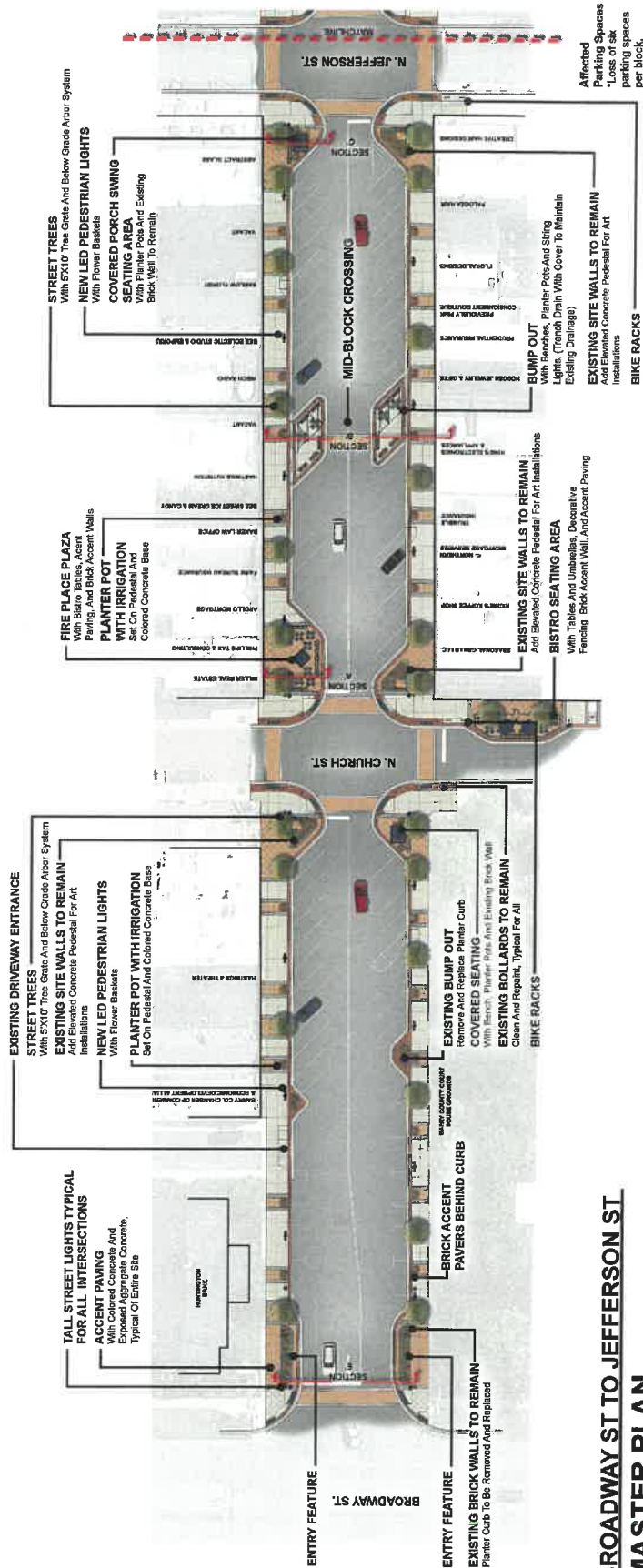
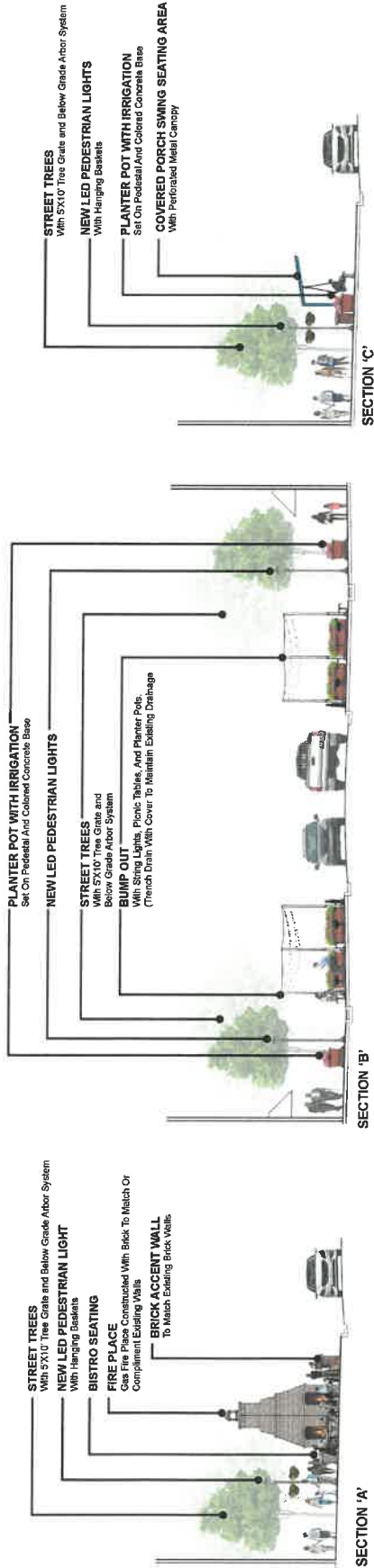
Affected Parking Spaces  
- Loss of six parking spaces  
per block.



DATE  
08/05/2019  
PROJECT NO.  
2142



SCALE: 1"=20'



DATE: 08/20/2022  
PROJECT NO: 2142



## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Thornapple & Spray Plaza Stage Maintenance

Project ID #: \_\_\_\_\_ CIP ID #: DDA-3

Department: DDA Anticipated Start Date: 07/2023

Date Prepared: 03/03/2023

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

Clean, prime, and paint both the Thornapple Plaza Stage and Spray Plaza stage structures.

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

Thornapple Plaza and the Spray Plaza are used for various events throughout the year. The structure is showing some signs of needed maintenance including rust. This project would clean and restore the structure and prevent further deterioration that would be more costly to 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:** \$ 15,000.00

**Potential Funding Sources:**

DDA funds

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Semi Parking Lot Mill and Reshape

Project ID #: \_\_\_\_\_

CIP ID #: LDFA-1

Department: LDFA

Anticipated Start Date: 07/2023

Date Prepared: 03/02/2023

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

Much of the asphalt has deteriorated leaving large areas of gravel. The City is working on transitioning the current zoning code regarding semi parking which could alleviate the need for this lot in the future.

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

Lot users are complaining that site deterioration is leading to low profile semis "bottoming out" in the parking lot.

**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

**Potential Funding Sources:**

LDFA Funds

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"

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



# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Enterprise Drive - Mill & Resurface

Project ID #: \_\_\_\_\_ CIP ID #: LDFA-2

Department: \_\_\_\_\_ Anticipated Start Date: 07/2023

Date Prepared: 03/02/2023

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

4.5 inch mill and resurface Enterprise Drive using funds collected through the LDFA TIF

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

Current pavement is spalling in highly used areas and cracks have become more extensive. Resurfacing the road will prevent further surface deterioration before more significant improvements are needed.

**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:** \$ 150,000.00

**Potential Funding Sources:**

LDFA Funds

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"

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

**Emergency Services**

PD-3	Patrol Vehicle Replacement (#41)	45,000
PD-4	Patrol Vehicle Replacement (#43)	45,000
PD-5	Patrol Vehicle Replacement (#42)	45,000
PD-6	Patrol Vehicle Replacement (#47)	45,000
PD-7	Replacement of Police Chief's Vehicle	50,000
PD-8	Replacement Portable Radios	80,000
F-2	Replace SCBA (4 units)	27,342
F-3	Replacement tanks for SCBAs (12 units)	13,500
F-4	Replacement VHF Radios (4 units)	9,000
F-5	Turnout Gear (4 sets)	59,500
F-6	800 Radios (2 units)	17,500
F-8	New Class A Pumper Truck (half cost)	625,000
ES-1	Emergency Services Building Construction	12,000,000
<b>Total Emergency</b>		<b>13,061,842</b>



## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of Patrol Cars #41 and #43

Project ID #: \_\_\_\_\_

CIP ID #: PD-3 and PD-4

Department: Police

Anticipated Start Date: 07/2025

Date Prepared: 02/06/2023

**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 41 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:** \$ 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:**

General Fund  
Sale of retired vehicle

**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-5 and PD-6

Department: Police

Anticipated Start Date: 07/2026

Date Prepared: 02/06/2023

**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.  
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:** \$ 45,000.00

**Potential Funding Sources:**

General Fund

Sale of retired vehicle

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"

**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: 02/06/2023

**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.

**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:** \$ 50,000.00

**Potential Funding Sources:**

General Fund

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of Portable 700/800 Megahertz Police Radios

Project ID #: \_\_\_\_\_

CIP ID #: PD-8

Department: Police

Anticipated Start Date: 07/2024

Date Prepared: 02/06/2023

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

Research and investigation regarding proper and reliable mission critical equipment is a must for all law enforcement officers. Motorola brand radios are at this time, the top of the line and most reliable solution. Research would also include other brand names such as Kenwood, and Viking/Johnson. Project to include exploring the possibility of any state or federal grants potentially reducing overall cost of the purchase.

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

Police Ban 700/800 mhz Motorola APX 6000 radios currently in use have reached and are past their life expectancy and are currently utilized by our certified officers. The 800 mhz Motorola STX 3000 radios carried by our reserve officers have been discontinued and parts are only available on Ebay or other like sources. The FCC is rapidly making changes and soon they will phase in more 700 mhz bands causing the STX3000 unable to communicate with certain talk groups.

**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:**

Currently, General fund with hopes of available grants

Aprox cost per unit is \$5,333 each (15 units)

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

Brochure

Quote from Chrouh Communications

# APX™ 6000 SINGLE-BAND PORTABLE RADIO



From day one, the single-band APX 6000 P25 portable radio has delivered legendary APX ruggedness and reliability, without compromising on the form factor or features required for routine activities and extreme emergencies. Now, as the ever-increasing needs of public safety personnel grow, we are evolving the APX 6000 to support newer technologies like Wi-Fi®, Adaptive Audio Engine, and Bluetooth® 4.0 wireless technology. These advances help improve the operational efficiency and response time of public safety agencies while enhancing the safety of personnel and communities.

## VOICE AND DATA, ALL AT ONCE

Update your radio fleet without interrupting voice communications with secure Wi-Fi. This dramatically improves the speed of configuring new codeplugs, firmware and software features over-the-air via Radio Management\*. Agencies can pre-provision up to 20 secure Wi-Fi hotspots so personnel can easily access updates at the facility or in the field.

## HEAR AND BE HEARD

The APX 6000 is equipped with a 3-watt speaker, 3 integrated microphones and the Adaptive Audio Engine. This changes the level of noise suppression, microphone gain, windporting and speaker equalization to produce clear and loud audio in any environment.

## SEAMLESS ON-SCENE COMMUNICATION

Ensure fast and seamless communication and collaboration across all responders arriving on a scene. Mission Critical Geofence automatically changes a radio's active talkgroup based on its GPS location and an agency-defined virtual barrier. For example, an incident commander can create a geofence around the 3-block radius of a burning building so that all arriving personnel are automatically placed in the same talkgroup.

## EMERGENCY FIND ME

Bluetooth 4.0 places a wide range of wireless accessories at your disposal and provides personnel with an added level of security by improving response time in emergencies. With Emergency Find Me, a Bluetooth-enabled beacon signal guides other Bluetooth-enabled APX radios within range to assist the user in distress.



\*Radio Management application simplifies APX radio configuration and management by programming up to 16 radios at one time and tracking which radios have been successfully programmed, providing a clear view of the entire radio fleet and a codeplug history for each radio.





## SPECIFICATIONS

### RF BANDS

- 700/800 MHz, VHF, UHF Range 1 & UHF Range 2
- 9600 Baud Digital APCO P25 Phase 1 FDMA and Phase 2 TDMA Trunking
- 3600 Baud SmartNet®, SmartZone®, SmartZone, Omnilink Trunking
- Digital APCO 25, Conventional, Analog MDC 1200, Quick Call II System Configurations Narrow and Wide Bandwidth Digital Receiver (6.25 kHz Equivalent/25/20/12.5 kHz)<sup>1</sup>

### STANDARD FEATURES

- Mission Critical Wireless Bluetooth® 4.0 (LE)<sup>2</sup>
- Emergency Find Me<sup>2</sup>
- ASTRO® 25 Integrated Voice & Data
- Integrated GPS/GLONASS for Outdoor Location Tracking
- Voice Announcements
- ISSI 8000 Roaming
- Radio Profiles
- Dynamic Zone
- Intelligent Lighting
- Single-Key ADP Encryption
- IP68 submersion (2 meters, 2 hours)
- IMPRES 2 Battery (PMNN4485)
- Text Message
- Software Key

### PROGRAMMING

- Utilizes Windows 7 & 8 Customer Programming Software (CPS) with Radio Management<sup>3</sup>

### ADAPTIVE AUDIO ENGINE (OPTIONAL)

- 3-W Speaker with Adaptive Equalization
- Adaptive Dual-Sided Operation
- Adaptive Noise Suppression Intensity
- Adaptive Gain Control
- Adaptive Windporting

### OPTIONAL FEATURES

- Wi-Fi 802.11 b/g/n
- LEX L10 Collaboration
- RFID Volume Knob
- Multi-key for 128 keys and Multi-Algorithm
- Programming Over Project 25 (OTAP)
- Over the Air Rekey (OTAR)
- Digital Tone Signaling
- Mission Critical Geofence
- P25 Authentication
- Man Down Capability
- High Impact Green and Public Safety Yellow Colored Housing Options
- Rugged Option: IP68 (2m/4hr), Mil Std 512.X Delta - T<sup>4</sup>
- Listed by UL to the standards ANSI/TIA 4950-A and CAN/CSA C22.2 NO. 157-92 Classification Rating: Class I, Division 1, Groups C, D; Class II, Division 1, Group E, F, G; Class III, Hazardous (Classified) Locations. ANSI/ISA 12.12.01-2015 and CAN/CSA C22.2 No. 213-15; Class I, Division 2, Groups A, B, C, D; T3C. Tamb = -25° C to +60° C. when used with Motorola Battery: NNTN8921A NNTN8930A 7.4V

<sup>1</sup> Per the FCC Narrowbanding rules, new products (APX6000 UHF1, UHF2 ) submitted for FCC certification after January 1, 2011 are restricted from being granted certification at 25 KHz for United States - State & Local Markets only.

<sup>2</sup> Compatible with BT 2.1, HSP, PAN, DUN and SPP Profiles found in off-the-shelf Bluetooth accessories and Bluetooth 4.x

<sup>3</sup> CPS version R12.00.00 and greater ordered after June 2014 will only support Windows 7 and 8

<sup>4</sup> Radios meet industry standards (IPx7) for submersion.

### TRANSMITTER - TYPICAL PERFORMANCE SPECIFICATIONS

		700/800	VHF	UHF Range 1	UHF Range 2
Frequency Range/Bandsplits	700 MHz	763-776, 793-806 MHz	136-174 MHz	380-470 MHz	450-520 MHz
	800 MHz	806-824, 851-870 MHz			
Channel Spacing		25/20/12.5 kHz	25/20/12.5 kHz	25/20/12.5 kHz	25/20/12.5 kHz
Maximum Frequency Separation		Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Rated RF Output Power Adj <sup>1</sup>		1-3 Watts Max	1-6 Watts Max	1-5 Watts Max	1-5 Watts
Frequency Stability <sup>1</sup> (-30°C to +60°C; +25°C Ref.)		±0.00010 %	±0.00010 %	±0.00010 %	±0.00010 %
Modulation Limiting <sup>1</sup>		±5 kHz / ±4 kHz / ±2.5 kHz	±5 kHz / ±4 kHz / ±2.5 kHz	±5 kHz / ±4 kHz / ±2.5 kHz	±5 kHz / ±4 kHz / ±2.5 kHz
Emissions (Conducted and Radiated) <sup>1</sup>		-75 dB	-75 dB	-75 dB	-75 dB
Audio Response <sup>1</sup>		+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB
FM Hum & Noise	25k	-52 dB	-55 dB	-52 dB	-52 dB
	25.5k	-47 dB	-50 dB	-47 dB	-46 dB
Audio Distortion <sup>1</sup>	700 MHz	1.00 %	1.00 %	1.00 %	1.00 %
	800 MHz				



# BATTERIES FOR APX 6000

Battery Capacity / Type	Dimensions (HxWxD)	Weight	Battery Part Number	Battery Capacity
Li-Ion IMPRES 2 2550mAh <sup>1</sup>	3.4" x 2.3" x 1.5"	5.0 oz	PMNN4485	2550 mAh
Li-Ion IMPRES 2 3400mAh	3.4" x 2.3" x 1.7"	6.5 oz	PMNN4486	3400 mAh
Li-Ion IMPRES 2 4850mAh	5" x 2.3" x 1.7"	11.0 oz	PMNN4487	4850 mAh
Li-Ion IMPRES 2 5100mAh	5" x 2.3" x 1.7"	11.0 oz	PMNN4494	5100 mAh
Li-Ion IMPRES 2 2650 mAh <sup>2</sup>	3.4" x 2.3" x 1.7"	5.7 oz	NNTN8930	2650 mAh
Li-Ion IMPRES 2 4500mAh <sup>2</sup>	5" x 2.3" x 1.7"	11.0 oz	NNTN8921	4500 mAh

<sup>1</sup> The standard shipping battery for the APX6000  
<sup>2</sup> HAZLOC approved.

# RADIO MODELS

MODEL 1.5



MODEL 2.5



MODEL 3.5



## Display

Full bitmap monochromatic LCD top display  
 1 line text x 8 characters  
 1 line of icons  
 No menu support  
 Multi-color backlight

none

## Keypad

Top display plus:  
 Full bitmap color LCD display  
 4 lines of text x 14 characters  
 2 lines of icons  
 1 menu line x 3 menus  
 White backlight

Backlit keypad  
 3 soft keys  
 4 direction Navigation key  
 Home and Data buttons

Top display plus:  
 Full bitmap color LCD display  
 4 lines of text x 14 characters  
 2 lines of icons  
 1 menu line x 3 menus  
 White backlight

Backlit keypad  
 3 soft keys  
 4 direction Navigation key  
 4x3 keypad  
 Home and Data buttons

## Channel Capacity<sup>1</sup>

96

1000

1000

## FLASHport Memory

64 MB

64 MB

64 MB

## 700/800 MHz (763-870 MHz)

H98UCD9PW5BN

H98UCF9PW6BN

H98UCH9PW7BN

## VHF (136-174 MHz)

H98KGD9PW5BN

H98KGF9PW6BN

H98KGH9PW7BN

## UHF Range 1 (380-470 MHz)

H98QDD9PW5BN

H98QDF9PW6BN

H98QDH9PW7BN

## UHF Range 2 (450-520 MHz)

H98SDD9PW5BN

H98SDF9PW6BN

H98SDH9PW7BN

## Buttons & Switches

Large PTT button ■ Angled On/Off volume control ■ Orange emergency button ■ 16 position top-mounted rotary switch  
 ■ 2-position concentric switch ■ Multi-color backlight ■ 3-position toggle switch ■ 3 programmable side buttons

## Regulatory Information

### FCC ID

### Industry Canada

## 700/800 (764-869 MHz)

AZ489FT7086

109U-89FT7086

## VHF (136-174 MHz)

AZ489FT7087

109U-89FT7087

## UHF Range 1 (380-470 MHz)

AZ489FT7077

109U-89FT7077

## UHF Range 2 (420-520 MHz)

AZ489FT7085

109U-89FT7085

## FCC Emissions Designators

## FCC Emissions Designators

11K0F3E, 16K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 20K0F1E<sup>2</sup>

## Power Supply

## Power Supply

One rechargeable Li-Ion IMPRES 2 2550mAh battery standard (PMNN4485), with alternate battery options available.

<sup>1</sup> Enhancement package available  
<sup>2</sup> Per the FCC Narrowbanding rules, new products (APX6000 UHFRT1, UHFRT2) submitted for FCC certification after January 1, 2011 are restricted from being granted certification at 25 kHz for United States - State & Local Use

# RECEIVER - TYPICAL PERFORMANCE SPECIFICATIONS

		700/800	VHF	UHF Range 1	UHF Range 2
Frequency Range/Bandsplits	700 MHz 800 MHz	763-776 MHz 851-870 MHz	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing		25/20/12.5 kHz	25/20/12.5 kHz	25/20/12.5 kHz	25/20/12.5 kHz
Maximum Frequency Separation		Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Audio Output Power at Rated <sup>1</sup>		500 mW	500 mW	500 mW	500 mW
Analog Sensitivity <sup>2</sup>	12 dB SINAD	0.25 $\mu$ V	0.17 $\mu$ V	0.224 $\mu$ V	0.203 $\mu$ V
Digital Sensitivity <sup>3</sup>	1% BER (800 MHz) 5% BER	0.375 $\mu$ V 0.24 $\mu$ V	0.243 $\mu$ V 0.15 $\mu$ V	0.298 $\mu$ V 0.200 $\mu$ V	0.296 $\mu$ V 0.204 $\mu$ V
Selectivity <sup>1</sup>	25 kHz channel 12.5 kHz channel	-76 dB -70 dB	-78 dB -73 dB	-77 dB -67 dB	-76 dB -67 dB
Intermodulation		-80.1 dB	-80.2 dB	-80.3 dB	-80.2 dB
Spurious Rejection		-75 dB	-78 dB	-80.5 dB	-80.8 dB
FM Hum and Noise	25 kHz 12.5 kHz	-54 dB -79 dB	-54.3 dB -50.1 dB	-53.5 dB -47.5 dB	-52.5 dB -47.3 dB
Audio Distortion at Rated <sup>1</sup>		0.90%	0.90%	0.70%	0.70%

<sup>1</sup> Measured in the analog mode per TIA / EIA 603 under nominal conditions

<sup>2</sup> Measured conductively in analog mode per TIA / EIA 603 under nominal conditions.

<sup>3</sup> Measured conductively in digital mode per TIA / EIA IS 102.CAAA under nominal conditions.



PORTABLE MILITARY STANDARDS 810 C, D, E, F & G

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Basic Hot	501.5	I/A1, II/A2
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II/C1
Temperature Shock	503.1	I	503.2	I/A1C3	503.3	I/A1C3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	1 Proc	507.5	II/Aggravated
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	1 Proc	509.5	1 Proc
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Blowing Sand	1 Proc	1 Proc	510.2	II	510.3	II	510.4	II	510.5	II
Immersion	512.1	I	512.2	I	512.3	I	512.4	I	512.5	I
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24
Shock	516.2	I, III, V	516.3	I, V, VI	516.4	I, V, VI	516.5	I, V, VI	516.6	I, V, VI
Shock (Drop)	516.2	II	516.2	IV	516.4	IV	516.5	IV	516.6	IV



#### DIMENSIONS OF THE RADIOS WITHOUT BATTERY

Length	5.47 in	139 mm
Width Push-To-Talk button	2.39 in	60.7 mm
Depth Push-To-Talk button	1.40 in	35.6 mm
Width Top	2.98 in	75.7 mm
Depth Top	1.58 in	40.1 mm
Depth Bottom of Battery	1.24 in	31.5 mm
Weight of the radios without battery	10.9 oz	309 g

#### ENCRYPTION

Supported Encryption Algorithms	ADP, 256-bit AES, DES, DES-XL, DES-OFB, DVP-XL
Encryption Algorithm Capacity	8
Encryption Keys per Radio	Module capable of storing 1024 keys. Programmable for 64 Common Key Reference (CKR) or 16 Physical Identifier (PID)
Encryption Frame Re-sync Interval	P25 CAI 300 mSec
Encryption Keying	Key Loader
Synchronization	XL – Counter Addressing OFB – Output Feedback
Vector Generator	National Institute of Standards and Technology (NIST) approved random number generator
Encryption Type	Digital
Key Storage	Tamper protected volatile or non-volatile memory
Key Erasure	Keyboard command and tamper detection
Standards	FIPS 140-2 Level 3 FIPS 197

#### GPS/GPS/GNSS SPECIFICATIONS

Constellations	GPS & GLONASS
Tracking Sensitivity	-164 dBm
Accuracy <sup>2</sup>	<5 meters (95%)
Cold Start	<60 seconds (95%)
Hot Start	<5 seconds (95%)
Mode of Operation	Autonomous (Non-Assisted)

#### RUGGED SPECIFICATIONS

Leakage (submersion)	MIL-STD-810 C, D, E, F and G Method 512.X Procedure I, IP68 (2 meters, 4 hours)
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#### HOUSING COLOR

Black (Standard), Public Safety Yellow, and High Impact Green

#### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature <sup>1</sup>	-30 °C to +60 °C
Storage Temperature <sup>1</sup>	-50 °C to +85 °C
Humidity Per MIL-STD	ESD IEC 801-2 KV
Water and Dust Intrusion	IP68 (2 meters, 4 hours)

<sup>1</sup> Temperatures listed are for radio specifications. Battery storage is recommended at 25 °C, ±5 °C to ensure best performance.

<sup>2</sup> Measured conductively with >6 satellites visible at a nominal -130 dBm signal strength. Specs provided are 95th percentile values.



#### EMISSION DESIGNATORS

LMR: 8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E, 20K0F1E

Bluetooth: 852KF1D, 1M17F1D, 1M19F1D, 1M04F1D

WLAN (Wi-Fi): 13M7G1D, 17M0D1D, 18M1D1D

#### WIRELESS CONNECTIVITY AND SECURITY

Frequency Range/Bandsplits:

Bluetooth: 2402 - 2480 MHz, WLAN (Wi-Fi): 2400 - 2483.5 MHz

WLAN (Wi-Fi) 802.11 b/g/n supports WPA-2, WPA, WEP security protocols; radio can be pre-provisioned with up to 20 SSIDs!

Mission Critical Wireless Bluetooth 2.1 uses 96 bit encryption for pairing & 128 bit encryption for voice, signaling and data. The radio BT supports up to 6 data connections and 1 audio connection

Bluetooth 4.0 Low Energy uses 128-bit AES-CCM encryption

1 2400 - 2483.5 MHz





02/03/2023

Hastings Police Department  
201 East State Street  
Hastings, MI 49058

RE: Motorola Quote for 15 APX6000 Portable Radios  
Dear Dale Boulter,

Motorola Solutions is pleased to present Hastings Police Department with this quote for quality communications equipment and services. The development of this quote provided us the opportunity to evaluate your requirements and propose a solution to best fulfill your communications needs.

This information is provided to assist you in your evaluation process. Our goal is to provide Hastings Police Department with the best products and services available in the communications industry. Please direct any questions to Kevin Yoder at [KevinY@Chrouch.com](mailto:KevinY@Chrouch.com).

We thank you for the opportunity to provide you with premier communications and look forward to your review and feedback regarding this quote.

Sincerely,

Kevin Yoder  
Chrouch Communications, Inc.

Motorola Solutions Manufacturer's Representative



**MOTOROLA SOLUTIONS**QUOTE-2036179  
15 APX6000 Portable RadiosBilling Address:  
Hastings Police Department  
201 East State Street  
Hastings, MI 49058  
USQuote Date:02/03/2023  
Expiration Date:04/04/2023  
Quote Created By:  
Kevin Yoder  
Chrouch Communications, Inc.  
KevinY@Chrouch.com  
(616) 642-3881End Customer:  
Hastings Police Department  
Dale BoulterContract: 35115 - STATE OF MICHIGAN,  
MA# 190000001544

Line #	Item Number	Description	Qty	List Price	Sale Price	Ext. Sale Price
	<b>APX™ 6000 Series</b>	<b>APX6000</b>				
1	H98UCF9PW6BN	APX6000 700/800 MODEL 2.5 PORTABLE	15	\$6,506.50	\$4,976.38	\$74,645.70
1a	QA09006AA	ADD: ADAPTIVE NOISE SUPPRESSION	15			
1b	HA00690AA	ADD: 7Y ESSENTIAL SERVICE HTP	15			
1c	QA01833AH	ADD: EXTREME 1-SIDED NOISE REDUCTION	15			
1d	Q667BB	ADD: ADP ONLY (NON-P25 CAP COMPLIANT) (US ONLY)	15			
1e	QA05570AA	ALT: LI-ION IMPRES 2 IP68 3400 MAH	15			
1f	Q361AR	ADD: P25 9600 BAUD TRUNKING	15			
1g	H38BT	ADD: SMARTZONE OPERATION	15			
1h	Q806BM	ADD: ASTRO DIGITAL CAI OPERATION	15			
2	PMNN4486A	BATT IMPRES 2 LIION R IP67 3400T	15	\$188.27	\$141.20	\$2,118.00



Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the "Underlying Agreement") that authorizes Customer to purchase equipment and/or services or license software (collectively "Products"). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.



Line #	Item Number	Description	Qty	List Price	Sale Price	Ext. Sale Price
3	PMMN4099CL	AUDIO ACCESSORY- REMOTE SPEAKER MICROPHONE,IP68 REMOTE SPEAKER MICROPHONE,3.5MM,UL	5	\$142.56	\$106.92	\$534.60
4	NNTN8860A	CHARGER, SINGLE-UNIT, IMPRES 2, 3A, 115VAC, US/NA	15	\$169.56	\$127.17	\$1,907.55

**Grand Total****\$79,205.85(USD)****Notes:**

- Customer is responsible for the \$250.00 per unit MPSCS activation fee.
- Unless otherwise noted, this quote excludes sales tax or other applicable taxes (such as Goods and Services Tax, sales tax, Value Added Tax and other taxes of a similar nature). Any tax the customer is subject to will be added to invoices.



Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the "Underlying Agreement") that authorizes Customer to purchase equipment and/or services or license software (collectively "Products"). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.



## Purchase Order Checklist

**Marked as PO/ Contract/ Notice to Proceed on Company Letterhead**  
**(PO will not be processed without this)**

**PO Number/ Contract Number**

**PO Date**

**Vendor = Motorola Solutions, Inc.**

**Payment (Billing) Terms/ State Contract Number**

**Bill-To Name on PO must be equal to the Legal/ Bill-To Name**

**Bill-To Address**

**Ship-To Address (If we are shipping to a MR location, it must be documented on PO)**

**Ultimate Address (If the Ship-To address is the MR location then the Ultimate Destination address must be documented on PO )**

**PO Amount must be equal to or greater than Order Total**

**Non-Editable Format (Word/ Excel templates cannot be accepted)**

**Bill To Contact Name & Phone # and EMAIL for customer accounts payable dept**

**Ship To Contact Name & Phone #**

**Tax Exemption Status**

**Signatures (As required)**

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of Self Contained Breathing Apparatus (4 units)

Project ID #: 14 CIP ID #: F-2

Department: Fire Anticipated Start Date: 07/2023

Date Prepared: 01/09/2023

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

Purchase of four Self Contained Breathing Apparatus (SCBA). An SCBA delivers breathable compressed air allowing a first responder to safely breathe through the duration of an operation.

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

Four additional units are needed to fill MIOSHA requirements.

**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:** \$ 27,342.00

**Potential Funding Sources:**

General Fund

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Tanks for Self Contained Breathing Apparatus (14 tanks)

Project ID #: 15

CIP ID #: F-3

Department: Fire

Anticipated Start Date: 07/2023

Date Prepared: 01/09/2023

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

Purchase 12 replacement tanks for our SCBA

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

This will complete the MOSHA requirement for the number of tanks that we need

**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:** \$ 13,500.00

**Potential Funding Sources:**

General Fund

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement VHF Radios (4 units)

Project ID #: \_\_\_\_\_ CIP ID #: F-4

Department: Fire Anticipated Start Date: 01/2023

Date Prepared: 01/09/2023

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

Purchase 4 VHF Radios

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

The VHF radios are used to communicate with Central Dispatch and other departments within the county that we work with. The ones that we currently have are beyond 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:** \$ 4,500.00

**Potential Funding Sources:**

General Fund

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"

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



## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Complete Turn Out Gear Sets (4 sets)

Project ID #: \_\_\_\_\_

CIP ID #: F-5

Department: Fire

Anticipated Start Date: 07/2023

Date Prepared: 01/09/2023

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

4 COMPLETE SETS OF TURNOUT GEAR FOR NEW MEMBERS

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

Hopefully we will get some new members for the department if we do we will have to outfit them with gear. Coats and bunkers are 2500 ea and boots are 490 a pair.

Cost estimate is based on last year's purchase plus 10 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:** \$ 10,000.00

**Potential Funding Sources:**

General Fund

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: 800 Radios (2 units)

Project ID #: \_\_\_\_\_

CIP ID #: F-6

Department: Fire

Anticipated Start Date: 07/2023

Date Prepared: 01/09/2023

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

2, 800 RADIOS

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

THESE RADIOS ARE USED TO COMMUNICATE WITH OTHER MEMBERS OF THE DEPARTMENT AND ALL TRUCKS.

Based on last year's purchase plus 10 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:** \$ 8,500.00

**Potential Funding Sources:**

General Fund

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"

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement Class A Pumper Truck

Project ID #: \_\_\_\_\_ CIP ID #: F-8

Department: Fire Anticipated Start Date: 07/2026

Date Prepared: 01/09/2023

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

Replacement of pumper truck (50%)

**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:

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

**Project Cost:** \$ 625,000.00

**Potential Funding Sources:**

General Fund  
BIRCH

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"

**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: 07/2024

Date Prepared: 01/09/2023

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

Replacement of Fire Barn with Emergency Services Building - Scope TBD

**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. The current direction is to construct police facilities in the same structure and share some areas of the building.

**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

**Potential Funding Sources:**

General Fund  
USDA Loan

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"

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

**Equipment/Motor Pool**

MP-4	6-Yd Dump Truck Replacement (#130)	210,000
MP-5	Front End Loader (#220)	265,000
MP-6	3-Yd 2008 Dump Truck Replacement (#350)	100,000
MP-7	3-Yd 2008 Dump Truck Replacement (#80)	100,000
MP-8	1996 Super Duty Bucket Truck Replacement (#290)	205,000
MP-9	Claw/Tink bucket (#253)	20,000
MP-31	Claw/Tink bucket (#224)	20,000
MP-10	John Park Mower Replacement (#300)	55,000
MP-11	C-7500 2000 GMC Replacement (#120)	185,000
MP-12	2014 International Dump Truck (#140)	185,000
MP-13	International Sweeper 2018 (#270)	355,000
MP-14	Cat Skid Steer 2014 (#430)	135,000
MP-15	Salt Spreader Replacement 6.9 yds (#62)	20,000
MP-16	Salt Spreader Replacement 6.9 yds (#92)	20,000
MP-17	Vactor Truck Replacement (on rotation)	525,000
MP-18	Pull behind Air Compressor (#160)	20,000
MP-20	Front End Loader (#250)	325,000
MP-21	Excavator Replacement (#180)	265,000
MP-24	Street Supervisor Truck #20 (Rotation schedule)	271,500
MP-25	Utility Supervisor Truck #30 (Rotation schedule)	271,500
MP-29	Service Truck (#40)	90,000
<b>Total Equipment/Motor Pool</b>		<b>3,643,000</b>

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of 6-yr dump truck #130

Project ID #: \_\_\_\_\_

CIP ID #: MP-4

Department: DPS - Motor Pool

Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

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

Replacement of large dump truck

**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

**Potential Funding Sources:**

Equipment Fund  
Trade in / sealed bid (est 3-10K)

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"

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



# 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: 01/10/2023

**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

**Potential Funding Sources:**

Equipment Fund  
Trade in / Sealed Bid for old equipment

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"

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of 2008 3-yd Dump Truck #350

Project ID #: \_\_\_\_\_ CIP ID #: MP-6

Department: DPS - Motor Pool Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

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

Replacement of 3-yd dump truck with 63,000 miles and 16,500 lb capacity.

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

Current truck is 14 years old and the dump box is rusting through. A new truck would allow a larger hauling capacity (19,500) and additional horsepower which would improve its use to the city. This truck has multiple uses in the field.

**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:** \$ 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:**

Equipment Fund  
Trade in / Sealed Bid for current truck

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of 2008 3-yd Dump Truck #80

Project ID #: \_\_\_\_\_

CIP ID #: MP-7

Department: DPS - Motor Pool

Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

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

Replacement of 3-yd dump truck

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

Current truck is 15 years old and the dump box is rusting through. A new truck would allow a larger hauling capacity (19,500) and additional horsepower which would improve its use to the city. This truck has multiple uses in the field.

**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:** \$ 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:**

Equipment Fund  
Trade in / Sealed Bid for current truck (est 3-10K)

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of 1996 Ford Super Duty Bucket Truck #290

Project ID #: \_\_\_\_\_

CIP ID #: MP-8

Department: DPS - Motor Pool

Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

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

Replacement of existing bucket truck.

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

This truck is used for putting up banners, holiday decorations, tree trimming, changing traffic lights and any other items that require heights greater than that which can be served by a ladder. A new truck would allow us to have a higher reach and to do more tree removals ourselves rather than contracting in some situations.

**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:** \$ 205,000.00

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 current truck (est  
1-5K)

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

# City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of 2010 930 Claw/Tink Bucket #253

Project ID #: \_\_\_\_\_ CIP ID #: MP-9

Department: DPS Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

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

Attachment for the front end loader

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

This attachment is used for spring and fall cleanup and has a lot of wear-and-tear. This attachment should be replaced approximately every 10 years or sooner.

**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 (est 1-5K)

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

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: Replacement of 2010 Claw/Tink Bucket #224

Project ID #: \_\_\_\_\_ CIP ID #: MP-31

Department: DPS Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

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

Attachment for the front end loader

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

This attachment is used for spring and fall cleanup and has a lot of wear-and-tear. This attachment should be replaced approximately every 10 years or sooner.

**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 (est 1-5K)

**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: 07/2024

Date Prepared: 01/10/2023

**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

**Potential Funding Sources:**

Equipment Fund  
Trade In / Sealed Bid (est 1-5K)

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"

**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: 01/10/2023

**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: 01/10/2023

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

Replacement of 10 year old dump truck

**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.

**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: 01/10/2023

**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 loses 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:** \$ 355,000.00

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.):**

# 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: 07/2027

Date Prepared: 01/10/2023

**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: 07/2025

Date Prepared: 01/10/2023

**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 11 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:** \$ 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 (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: 07/2025

Date Prepared: 01/10/2023

**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 11 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:** \$ 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 (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: 01/10/2023

**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:** \$ 525,000.00

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 (we are currently saving extra payments to make up the difference between the trade in value and total cost)

Trade in

**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: 01/10/2023

**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-20

Department: DPS - Motor Pool Anticipated Start Date: 07/2027

Date Prepared: 01/10/2023

**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-21

Department: DPS - Motor Pool Anticipated Start Date: 07/2027

Date Prepared: 01/10/2023

**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.):**

## City of Hastings – Capital Improvement Plan Project Application Form



Project Title: DPS Superintendent Vehicle #20

Project ID #: \_\_\_\_\_

CIP ID #: MP-24

Department: DPS

Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

**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:** \$ 53,000.00

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:**

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-25

Department: DPS

Anticipated Start Date: 07/2023

Date Prepared: 01/10/2023

**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:** \$ 53,000.00

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:**

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: Truck 40 Service Truck

Project ID #: \_\_\_\_\_ CIP ID #: MP-29

Department: WWTP Anticipated Start Date: 07/2023

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.):**