

Regular Meeting of the Mt. Pleasant City Commission
Monday, March 13, 2023
7:00 p.m.

AGENDA

CALL TO ORDER:

PLEDGE OF ALLEGIANCE:

LAND ACKNOWLEDGEMENT STATEMENT:

ROLL CALL:

PROCLAMATIONS AND PRESENTATIONS:

1. Introduction of new Records Office Professional Terrie House.
2. Introduce and swear in Mt. Pleasant Police Officer Dave Coffman.

ADDITIONS/ DELETIONS TO AGENDA:

PUBLIC INPUT ON AGENDA ITEMS:

RECEIPT OF PETITIONS AND COMMUNICATIONS:

3. Monthly report on police related citizen complaints received.
4. Minutes of the Parks and Recreation Commission (January).
5. Minutes of the Planning Commission (February).
6. 2022 Annual Report.
7. 2022 Planning Commission Annual Report.

CONSENT ITEMS:

8. Approval of the minutes from the regular meeting held February 27, 2023.
9. Approval of the minutes from the special meeting held March 6, 2023.
10. Consider authorization of an adjustment to accommodate a price increase for (2) police vehicles.
11. Consider resolution to purchase, acquire and construct improvements to the Water Resource Recovery System and to publish notice of intent to issue revenue bonds.
12. Consider approval of contract for reimbursement with Isabella County Road Commission for the Pickard-Bradley traffic signal.
13. Consider approval of a contract with G. A. Hunt Excavating, LLC for the 2023 storm sewer extension project.

All interested persons may attend and participate. Persons with disabilities who need assistance to participate may call the Human Resources Office at 989-779-5313. A 48-Hour advance notice is necessary for accommodation. Hearing or speech impaired individuals may contact the City via the Michigan Relay Service by dialing 7-1-1.

City Commission Agenda

March 13, 2023

Page 2

14. Consider approval of a contract with PlanIT Geo, Inc. for tree inventory services.
15. Consider approval of the purchase of Aktivov Asset Management Software and budget amendment on the same.
16. Receive City requests for Saginaw Chippewa Indian Tribe 2% allocations.
17. Consider approval of Payrolls and Warrants.

PUBLIC HEARINGS:

NEW BUSINESS:

18. Consider waiver of audit requirement for Mid-Michigan Aquatic Recreation Authority.
19. Consider approval of a proposal for comprehensive analysis of fire services from the Center for Public Safety Management and budget amendment for the same.

ANNOUNCEMENTS ON CITY-RELATED ISSUES AND NEW BUSINESS:

PUBLIC COMMENT ON AGENDA AND NON-AGENDA ITEMS:

RECESS:

WORK SESSION:

CLOSED SESSION:

ADJOURNMENT:

All interested persons may attend and participate. Persons with disabilities who need assistance to participate may call the Human Resources Office at 989-779-5313. A 48-Hour advance notice is necessary for accommodation. Hearing or speech impaired individuals may contact the City via the Michigan Relay Service by dialing 7-1-1.

TO: MAYOR AND CITY COMMISSION

MARCH 13, 2023

FROM: AARON DESENTZ, CITY MANAGER

SUBJECT: CITY MANAGER REPORT ON AGENDA ITEMS

Proclamations and Presentations:

Receipt of Petitions and Communications:

Consent Items:

10. Consider authorization of an adjustment to accommodate a price increase for (2) police vehicles.
 - a. The City Commission is requested to authorize the adjustment of the Police Capital Purchase budget to accommodate the price increase for two (2) 2023 Ford Police Interceptors from \$42,820 to \$47,805 per vehicle for a total of \$95,610. Previously, during the May 23, 2022, City Commission meeting the Commission approved the purchase for these vehicles at a price of \$85,640 from Krapohl Ford. The total difference in pricing is \$9,970.
11. Consider resolution to purchase, acquire and construct improvements to the Water Resource Recovery System and to publish notice of intent to issue revenue bonds.
 - a. In order to move forward with Phase II of the WRRF reconstruction and upgrade project, the City Commission will need to approve the included Resolution which declares the City's intent to issue bonds. Phase II is an estimated \$18 million and includes upgrades to the sludge system, towers, and clarifiers. As part of the CWSRF program, the City will receive an anticipated \$9 million in principal forgiveness from the State. These upgrades and reconstruction efforts will improve the City's water resource recovery system and make the plant more energy efficient. We anticipate the project will be bid in May and be awarded in July.
12. Consider approval of contract for reimbursement with Isabella County Road Commission for the Pickard-Bradley traffic signal.
 - a. The ICRC will install a new traffic signal at the intersection of Pickard and Bradley in 2023. As the intersection is under the jurisdiction of both the City and County, the City is obligated to pay for ½ of the project. The County estimates the cost at \$403,474.61. The State share is \$200,000 and the County is paying for extra components such as pedestrian signaling. The City's share of the project is \$84,100 and is included in the fiscal year 2023 budget.
13. Consider approval of a contract with G. A. Hunt Excavating, LLC for the 2023 storm sewer extension project.
 - a. Staff is proposing the addition of storm sewer infrastructure to several parts of the City as detailed in the 2023-2028 Capital Improvements Plan. The 2023 project includes Anna Street from Broadway South to dead end. G.A. Hunt was the low bidder at \$165,102. This is below the budgeted \$198,000.
14. Consider approval of a contract with PlanIT Geo, Inc. for tree inventory services.
 - a. Staff is requesting approval of funds to conduct a full inventory and health assessment of all City owned trees. Staff received bids and is recommending the contract is awarded to PlanIT Geo given their successful track record and reputation. The City received a \$15,000 grant from the Michigan Department of Natural Resources (MDNR) for this project. The bid total is \$29,645 and is below the budgeted \$30,000.

15. Consider approval of the purchase of Aktivov Asset Management Software and budget amendment on the same.
 - a. Staff is requesting approval to purchase Aktivov Asset Management software for \$38,000 and is requesting a General Fund budget amendment of \$15,000 for use in the Water, WRRF, and Parks departments. The software will be a significant improvement to Parks and Cemetery operations. It will allow the department to generate work orders, streamline maintenance, and increase efficiency. It will also allow online access to cemetery records on the website.
16. Receive City requests for Saginaw Chippewa Indian Tribe 2% allocations.

Public Hearings:

New Business:

18. Consider waiver of audit requirement for Mid-Michigan Aquatic Recreation Authority.
 - a. The Mid-Michigan Aquatic Recreation Authority was created by Union Township, Mt. Pleasant Public Schools, and the City for the purpose of moving forward with a proposal for an Aquatic Recreation Center. The State of Michigan allows for these groups to have an annual audit every two (2) years while the Articles of Incorporation require an annual audit. The Recreation Authority is requesting that the three (3) creating entities waive the annual audit requirement and allow the Authority to conduct the audit next year while providing a copy of the 2022 financial reporting to each entity.

In your City Commission packet, you will find a report from the Authority discussing the issue as well as their year-end statements. A representative will be at our meeting to answer any questions.

Recommended Action: A motion to waive the annual audit requirement from the Mid Michigan Aquatic Recreation Authority and to authorize the Authority to conduct the audit every two years as required by State law.

19. Consider approval of a proposal for comprehensive analysis of fire services from the Center for Public Safety Management and budget amendment for the same.
 - a. Staff is requesting that the City Commission consider the authorization to engage the Center for Public Safety Management to conduct a comprehensive review of the Fire Department and Emergency Medical Services in the City of Mount Pleasant. The cost of the study is \$49,760 and would require a budget amendment in the General Fund.

The City of Mount Pleasant Fire Department is currently staffed for ten (10) full-time fire personnel and sixteen (16) paid on-call firefighters. The business of a fire department has changed dramatically over the last couple of decades. However, the structure of our organization has not adapted. For instance, most of the calls to the fire department are non-fire related. Recruitment and retention of paid on-call firefighters has also been challenging. Other concerns include the cost of future equipment replacement, and community risk and service needs.

Addressing this changing environment is something that internal staff needs assistance in doing. The CPSM has conducted department analysis since 2014. The organization has a great depth of expertise from the fire service as well as other public safety service agencies. We anticipate the study would be completed in Q4 2023.

Recommended Action: A motion to approve the proposal from the Center for Public Safety Management for \$49,760 and a budget amendment for the same.

Work Session:

Closed Session:

[illegible]

APPROVED MINUTES

Mt. Pleasant Parks and Recreation Commission

SPECIAL MEETING

Tuesday, January 31, 2023

City Hall Chambers, 6:00 p.m.

CALL TO ORDER – 6:00 pm

PLEDGE OF ALLEGIANCE

ATTENDANCE/DECLARATION OF QUORUM

- A. Commission Members Present: Batcheller, Little, Hamel, Mitchell, Sponseller
- B. Parks and Recreation Staff: Biscorner, Longoria, Moody, Way

APPROVAL OF AGENDA/MINUTES & COMMISSION BUSINESS

- A. Changes/Approval of Agenda – Motion by Mitchell, second by Batcheller to move Old/New Business under Public Comments, and move Election of Officers under Department Reports. All Ayes.
- B. Approval of Minutes – Motion by Mitchell, second by Batcheller to approve the meeting minutes from Tuesday, November 22, 2022. All Ayes.

PUBLIC COMMENTS

Tanja Dunn, 962 E. Beal City Rd., spoke in support of pickleball court expansion.

Lucia Elden, 1414 Orchard, spoke in support of keeping tennis courts.

Bob Sommerville, 3678 St. Andrews Dr., spoke in support of keeping tennis courts.

Steve Powers, 1875 Scully Dr., spoke in support of keeping tennis courts.

Adam Grifka, 628 W. Broomfield, Apt, 8, spoke in support of conceptual plan for Indian Pines and the economic impact that this would bring to the community.

Mike Ring, Owner, Motorless Motion, 121 S. Main Street, spoke in favor of bike trails in Indian Pines.

Jack Bunker, 4465 S. Monroe, spoke in favor of pickleball court expansion.

Mary Montoye, 1212 Forest Lane, spoke in favor of a combined effort in order to find a resolution to meet the needs of both pickleball and tennis groups.

Malcolm Fox, representing the Central Michigan Mountain Bike Assn., offered up fundraising and design help for the proposed Indian Pines concept.

Lily Boutwell, Gratiot-Isabella RESD, offered assistance for the community garden in Horizon Park.

OLD/NEW BUSINESS

- A. Island Park Tennis Courts – Director Biscorner addressed the group. Parks Dept. was originally tasked to build pickleball courts at Horizon Park, but the project was cost prohibitive. (\$115,000 budgeted; project was estimated at \$300,000 for six courts). The easiest way to meet the pickleball group's needs is to convert the tennis courts in Island Park as there are other places within Mt. Pleasant to play tennis.
Comm. Mitchell – has concerns with the "there are other facilities" to play tennis, it is not fair to put our community's tennis needs on the backs of the high school or CMU.
Comm. Batcheller – Island Park is the crown jewel of our parks' system, and he has concerns about eliminating the tennis courts. Can we add courts elsewhere, perhaps in cooperation with the township, use crowdfunding or create a "friends" group to seek other sources of funding?
After discussion, motion by Batcheller, second by Mitchell to put the current plan to convert the tennis courts to pickle ball courts on hold and recommend that Parks & Public Spaces Director Biscorner create a focus group to come up with a potential solution for use of facilities. All Ayes.

- B. Community Garden Horizon Park – with vandalism and theft issues in this area of town, this will be a unique opportunity to engage the community to create ownership and investment in their park. After discussion, motion by Sponseller, second by Hamel in support of a community garden in Horizon Park. All Ayes.
- C. Juvenile Court Garden Mill Pond Leaton Street – this a renewal of a previous agreement. The garden is located in a fenced in area that the city no longer uses. The group has done a nice job with the gardens over the summer months.
Motion by Batcheller, second by Hamel in support of a three-year agreement with the Isabella County Juvenile Court for a garden on Leaton Street near Mill Pond Park. All Ayes.
- D. Zonta Signage Mill Pond Shelter- Zonta Club would like to replace their sign in Mill Pond shelter as it has weathered.
Motion by Mitchell, second by Hamel in support of the Zonta Club's new signage. All Ayes.
- E. Indian Pines Update – conceptual drawings were shared with the commission. Parking spaces were discussed (how many may be needed). After further discussion, motion by Batcheller, second by Sponseller to recommend that Parks staff move forward with the design concept for Indian Pines.

DEPARTMENT REPORTS

- A. Parks – Director Biscorner reported on the following:
- Island Park restroom project moving along, few delays with materials; looking at spring completion.
 - Nelson Park maintenance building project – completion mid-February.
 - M-20 Bridge replacement – Fall 2023
 - Parks maintenance plan – Director Biscorner to pick a consultant.
 - North trail loop grant – did not receive MDNR Trust Fund Grant, applied for SPARK grant through MDNR.
 - Megan Bair from For Arts Sake was awarded an \$8,000 grant from the CVB to paint the outside features of the Skate Park.
- B. Recreation – Director Longoria reported on the following:
- PEAK Summer Camp – dates and sites are finalized; registration open Feb. 28.
 - Youth basketball league at Morey Courts has started with approx. 265 participants.
 - Daddy Daughter Date Night was held Sunday, Feb. 26 at the Comfort Inn.
 - Chili Challenge 5K race to be held Saturday, Feb. 4. starting at Island Park.
 - Under the Big Top event, in partnership with WCZY radio, to be held Friday, Feb. 10th at Morey Courts.
 - Spring soccer & tee ball registration has opened for 2023 season.
 - Seasonal hiring (will need all new Recreation Assistants this spring).

ELECTION OF OFFICERS

- A. Nominations of Chair and Vice-Chair – floor opened by Chair Little.
For the Chair position, Mitchell nominates Little, second by Batcheller. There were no other nominations. For the Vice-Chair position, Little nominates Sponseller, second by Mitchell. There were no other nominations.
- B. Elections – Voting took place and members unanimously elected Pete Little as Chair, and Brian Sponseller as Vice Chair.

OTHER BUSINESS/COMMISSIONER COMMENTS - The commission is currently down two members. The board has asked suggested we advertise on social media, (Facebook & Instagram)

ADJOURNMENT – 7:10 p.m.

**Mt. Pleasant Planning Commission
Minutes of the Regular Meeting
February 2, 2023**

I. Mrdeza called the meeting to order at 7:01 p.m.

Present: Devenney, Friedrich, Haveles, Hoenig, Irwin, Liesch, Nicholas, Ortman
Absent: Kingsworthy

Staff: William Mrdeza, Laura Delamater, Manuela Powidayko (via Zoom)

II. Elections:

Mrdeza reviewed the election procedures for electing officers and opened nominations for Chair. Mrdeza opened nominations. Commissioner Friedrich nominated Commissioner Hoenig. There being no other nominations, nominations were closed and there was a majority vote to elect Commissioner Hoenig as Chair.

Hoenig then opened nominations for Vice Chair. Commissioner Friedrich nominated Commissioner Ortman. There being no other nominations, nominations were closed and there was a majority vote to elect Commissioner Ortman as Vice Chair.

III. Approval of the Agenda:

Motion by Ortman, support by Liesch to approve the Agenda as presented.

Motion passed unanimously.

IV. Approval of the Minutes:

A. January 5, 2023 Regular Meeting

Motion by Friedrich, support by Haveles to approve the minutes from the January 5, 2023 regular meeting as presented.

Motion approved unanimously.

V. Zoning Board of Appeals report for January:

Commissioner Friedrich reported that the Zoning Board of Appeals did not meet in January.

VI. Communications:

Mrdeza reported that there were several communications received after the packets were delivered. Copies of the letters were on the dais for the commissioners.

VII. Public Hearings:

A. SUP-23-01 & SPR-23-02 – 1012 N. Lansing – Rio’s Happy Tree, LLC –
Request for a Special Use Permit & Site Plan Review for an Adult-Use Grower & Retail Establishment.

Mrdeza introduced SUP-23-01 & SPR-23-02, a request for a Special Use Permit & Site Plan Review for an Adult-Use Grower & Retail Establishment.

Mrdeza reviewed the current and prior uses of the property. Mrdeza provided an overview of the property including current zoning, future, current and prior land use. Mrdeza reviewed photos showing current conditions of the property.

Mrdeza reviewed Special Use Conditions regarding adult-use marihuana. Mrdeza reviewed the Specific Retailer Requirements and the Specific Grower Requirements.

Mrdeza reviewed the site plan.

Mrdeza closed his presentation with the recommendation to approve SUP-23-01 & SPR-23-02 subject to conditions.

Discussion took place.

Chair Hoenig invited the applicant to speak.

Steve Timmerman, of Rio’s Happy Tree, LLC was on hand to address the board and answer any questions.

Discussion took place.

Chair Hoenig opened the public comment.

George Tolas, 1205 N. Lansing, also representing Vern Hoag, spoke regarding odor control.

Chris Puhlman, 105 N. Fancher, spoke about crime, dust from the unpaved road, and odor.

Mrdeza noted that there were no emails regarding this case and no one on Zoom who wished to speak.

Hoenig closed public comment.

Discussion took place.

Motion by Friedrich, support by Haveles to approved SUP-23-01 & SPR-23-02 subject to the following conditions:

1. The applicant must obtain the marihuana state licenses from the State and maintain compliance with all applicable state statues and rules at all times, including those specific to co-located establishments.
2. The county's mechanical inspector approves the building's air handling system and finds it in compliance with Section 154.410.B.4(b)(vii).
3. The applicant shall comply with the requirements of Building Safety, Public Safety and Public Works.

Discussion took place.

Ayes: Devenney, Friedrich, Haveles, Hoenig, Irwin, Liesch, Nicholas, Ortman
Nays: None

Motion approved unanimously.

B. SUP-23-02 & SPR-23-03 – 1006 Bruce – McGuire Family Investments, LLC – Request for Special Use Permit for a two-family dwelling(duplex).

Mrdeza introduced SUP-23-02 & SPR-23-03, a request for a Special Use Permit & Site Plan Review for a two-family dwelling. (duplex).

Mrdeza reviewed the current and prior uses of the property. Mrdeza provided an overview of the property including current zoning, future, current and prior land use. Mrdeza reviewed photos showing current conditions of the property.

Mrdeza reviewed Special Use Standards for two-family dwellings.

Mrdeza reviewed the site plan.

Mrdeza noted that there were several correspondences received regarding this case after packets had been delivered. Copies of the correspondences were on the dais when commissioners arrived.

Mrdeza closed his presentation with the recommendation to approve SUP-23-02 & SPR-23-03 subject to conditions.

Discussion took place.

Chair Hoenig invited the applicant to speak.

David McGuire, owner of McGuire Family Investments, LLC was on hand to address the commission and answer questions.

Discussion took place.

Hoenig opened public comment.

Mark Anderson, (1005 Elm) spoke in opposition of the request for SUP-23-02 & SPR-23-03.

Carol Anderson, (1005 Elm) spoke in opposition of the request for SUP-23-02 & SPR-23-03.

Scott Webber, 1016 Bruce, spoke in opposition of the request for SUP-23-02 & SPR-23-03.

Mrdeza noted that there was one email received regarding this case from Shaeler Lund 1006 Elm Street in opposition of the request for SUP-23-02 & SPR-23-03. Mrdeza noted that there was no one on Zoom seeking to comment on this case.

Discussion took place.

Motion by Liesch support by Haveles to approve SUP-23-02 & SPR-23-03 subject to the following conditions:

1. The applicant shall ensure that the proposed landscape covers at least 30% of the First Lot Layer as defined in the Zoning Ordinance, and that such landscape complies with Section 154.413.
2. The applicant shall comply with the requirements of Building Safety, Public Safety and Public Works.

Discussion took place.

Ayes: Friedrich, Haveles, Hoenig, Irwin, Liesch

Nays: Devenney, Nicholas, Ortman

Motion approved 5-3.

C. SUP-23-03 – 1707 S. Mission – Mint Mt. Pleasant, LLC – Request for Special Use Permit for an Adult-Use Marihuana Establishment.

Mrdeza introduced SUP-23-03, a request for a Special Use Permit for an Adult-Use Retail Establishment.

Mrdeza reviewed the current and prior uses of the property. Mrdeza provided an overview of the property including current zoning, future, current and prior land use. Mrdeza reviewed photos showing current conditions of the property.

Mrdeza reviewed Special Use Conditions regarding Adult-Use Marihuana Establishments.

Mrdeza closed his presentation with the recommendation to approve SUP-23-03 subject to conditions.

Discussion took place.

Chair Hoenig invited the applicant to speak.

Fadi Kenaya, one of the partners of Mint Mt. Pleasant, LLC was on hand via telephone & Zoom to address the board and answer any questions.

Discussion took place.

Hoenig opened public comment.

George Tolas, 1205 N. Lansing, spoke regarding the number of marihuana establishments in the City..

Mrdeza noted that there were no emails regarding this case and no one else on Zoom who wished to speak.

Hoenig closed public comment.

Discussion took place.

Motion by Ortman, support by Haveles to approve SUP-23-03 subject to the following conditions:

1. The applicant must obtain an adult-use marihuana state license from the State and maintain compliance with all applicable state statutes and rules at all times.
2. The applicant shall:
 - a. Comply with the specific special use signage requirements that prohibit depicting marihuana, marihuana-infused products or related paraphernalia:
 - b. Comply with the specific special use signage requirements and post a sign stating the consumption of marihuana products is prohibited on the premises;
 - c. Ensure that no consumption of alcohol or tobacco will be allowed on the premises.
3. The county's mechanical inspector approves the building's air handling system and finds it in compliance with Section 154.410.B.4(b)(vii).

4. The applicant shall comply with the requirements of Public Safety and Public Works.

Discussion took place.

Ayes: Devenney, Friedrich, Haveles, Hoenig, Irwin, Liesch, Nicholas, Ortman

Nays: None

Motion unanimously passed.

VIII. Site Plan Reviews:

- A. None.

IX. Public Comments:

Hoenig opened the public comment.

George Tolas, 1205 N. Lansing, spoke regarding the number of marihuana establishments.

Mrdeza noted that there were no public comments submitted via email or on Zoom. There being no one else who wished to speak, public comment was closed.

X. Unfinished Business:

- A. None

XI. New Business:

- A. **MAP Conference.**

Mrdeza provided the commission with information regarding an upcoming MAP conference to be held on March 1st at The City of Mt. Pleasant, City Hall Commission Chambers and the 2 sessions being offered. Any commissioners who are interested in attending should contact Manuela Powidayko as soon as possible.

- B. **Recommend a Planning Commission Crossover to the ZBA**

Hoenig opened nominations for the Crossover member to the ZBA.

Commissioner Ortman nominated Commissioner Friedrich, support by Commissioner Haveles. There being no other nomination, nominations were closed and there was a

majority vote to recommend to the City Commission that Commission Friedrich be the Crossover Planning Commission Member to the Zoning Board of Appeals.

XII. Other:

A. None

XIII. Adjournment:

Motion by Haveles, support by Friedrich to adjourn.

Motion approved unanimously.

Meeting adjourned at 8:46 p.m.

lkd



Mt. Pleasant
[meet here]



Annual Report
2022

A message from City Manager



Aaron Desentz

For the City of Mt. Pleasant, 2022 can be summarized by the great success in the areas of economic development and infrastructure. The City welcomed a number of new businesses in 2022. To highlight the efforts made in encouraging economic growth, the City launched a video campaign featuring three multi-decade businesses, and why they chose to do business in Mt. Pleasant.

To address unfunded and aging infrastructure, the City is investing more than \$20 million in improvements to the Water Resource Recovery Facility. This massive undertaking will take place in two phases over the next several years. Phase I, which began in 2022, is an \$8.5 million investment to upgrade vital components of our wastewater treatment process. The City also continues to maintain our roads and improve our storm sewer system. Details on those projects can be found in the following pages.

Public safety is arguably one of the most important services that local government provides. The City is proud to report on the continued partnership with Recovery Independence Safety and Empowerment (R.I.S.E.) which provides crisis and trauma response clinician services. The Division of Public Safety also conducts a variety of outreach programs to foster relationships with the City's youth.

In an effort by the State of Michigan to support affordable childcare, the Partners Empowering All Kids (PEAK) program received \$1.3 million in state grant funding. This financial support enables the City to maintain tuition rates, and offer a number of valuable enrichment opportunities and field trips, despite increased costs.

The City is in a good position to carry this positive momentum into 2023. We will continue to focus on economic and community development, improving and maintaining infrastructure, and providing excellent parks and recreational offerings. I always want to take the opportunity to thank our residents for your trust and support. A special thank you to the City Commission for their hard work in guiding the City. Lastly, a big thank you to the City staff and volunteers who work hard to make Mt. Pleasant a special home for us all.

2022 City Commission

2022 City Commission :

*Bryan Chapman, Mayor Amy Perschbacher, Elizabeth Busch,
Maureen Eke, Vice Mayor Mary Alsager, Brian Assmann*

Not Pictured: George Ronan



Table of Contents

- 3 - Economic Development & Stable Funding
- 5 - Housing & Neighborhoods
- 7 - Infrastructure
- 9 - Public Safety
- 13 - Civic & Recreational Life

Photo & Media Credits :
Dan Pulver - *Guys & Dolls Photography*
Steve Jessmore Photography
Zach Huffman - *Hyvion*

Economic Development & Stable Funding



Why Do Business in Mt. Pleasant? Business Owners Say, 'Why Not?'

In a newly produced video, local business owners shared their views on why they have been conducting business in Mt. Pleasant for multiple decades. Gray's Furniture & Boutique (close to five decades), Hunter Brands Restaurant Group (four decades) and American MITSUBA Corporation (three decades) gave several reasons. They revealed that our community's varied customer base, talented workforce, central location and the city's responsiveness to businesses needs, have allowed their enterprises to grow.

The video highlighting these success stories was released in Summer 2022. To view this message, visit the City of Mt. Pleasant's Facebook page or YouTube channel.

City of Mt. Pleasant Welcomes New Businesses in 2022

- **Absolute Royale**
- **Abundant Health Chiropractic and Wellness**
- **Burlington**
- **Creation Coffee**
- **El Jinete Mexican Grill & Bar**
- **Fresenius Kidney Care**
- **Keller Williams of NM Signature Group**
- **Lash Babe**
- **Lowkey Properties, LLC (White Ash)**
- **Mid-Mitten Montessori**
- **Noble Appliance**
- **Sleepy Dog Books**
- **The Little Red Wagon Daycare**
- **Wood Shop Social**

Grand Opening of Broadway Lofts/GreenTree

Broadway Lofts, a new-mixed-use, four-story building located at 410 West Broadway Street, held its grand opening celebration in February 2022. Mayor Amy Perschbacher was among the speakers acknowledging this milestone. The project marks the largest new development in 40 years in downtown Mt. Pleasant. The 50,000 square foot building created by Michigan Community Capital, features 48 studio, one-bedroom and two-bedroom apartment units on the three upper floors, and GreenTree Grocery on the main floor.

City Commission Removed License Caps for Marihuana Businesses

In May 2022, the City Commission adopted amendments to Chapter 112 (Medical Marihuana Facilities) and Chapter 115 (Recreational Marihuana Establishments) of the Mt. Pleasant City Code. These amendments eliminated caps on the number of medical marihuana facilities and recreational establishments eligible for licensing by the city. These amendments went into effect June 8, 2022.

City Awarded Financial Certificate of Achievement for 34th Consecutive Year

For the 34th consecutive year, the Government Finance Officers Association (GFOA) awarded the City of Mt. Pleasant the Certificate of Achievement for Excellence in Financial Reporting. The award acknowledges municipalities that clearly communicate their financial story while motivating potential users and user groups to read the Annual Comprehensive Financial Reports (ACFR). The Certificate of Achievement is the highest form of recognition in governmental accounting and financial reporting. The ACFR was prepared by the highly focused Finance Division staff. Budget preparations that led to this award were spearheaded by Mary Ann Kornexl, Director of Finance and Chris Saladine, Assistant Director of Finance.

Mt. Pleasant Municipal Airport Helps Drive Local Economy

The Mt. Pleasant Municipal Airport is currently ranked in the top third among the state’s 300+ general aviation airports while contributing approximately 7 million dollars to the local economy. It provides convenient accessibility for athletic teams, corporate and entertainment business, as well as general aviation.

- 5,000 Total Flights
- 218 corporate aircraft landings (turbo prop & jets)
- Fuel sales totaling 62,720 gallons (3,684-gallon increase from 2021)
- 111 after hour callouts
- 49 ramp fees
- 40 overnight hangar rentals
- 40 courtesy car uses
- 100 rental cars

City Projects Receive Saginaw Chippewa Indian Tribe Funding

Five separate city projects received funding from the Saginaw Chippewa Indian Tribe’s 2% Revenue Sharing Fund in 2022. The city is appreciative of the ongoing support from the Saginaw Chippewa Indian Tribe. The projects awarded funding are as follows:

Airport Operational Funding	\$ 80,000
Water Resource Recovery Facility’s Grit System Upgrade	\$200,000
Mill Pond Dam Replacement	\$ 25,000
Fire Rescue Apparatus	\$290,000
1303 N. Franklin Former Landfill Remediation/Monitoring	\$ 10,000



Housing & Neighborhoods



Assessing Team Earns Perfect Score

The city was recognized by the Michigan State Tax Commission for its perfect score on the 2022 Audit of Minimum Assessing Requirements (AMAR) Review, and its continued efforts in providing fair and equitable assessing in the State of Michigan.

City Adopts PILOT Policy

In 2022, the city adopted a PILOT (Payment in Lieu of Taxes) policy, authorizing city staff to solicit proposals for affordable housing projects during the first quarter of 2023. A PILOT is an effective financial incentive related to low-income housing construction.

Authorized under the Michigan State Housing Development Authority Act of 1966, a PILOT agreement is a negotiable legal document that allows the owner to pay a defined percentage of net shelter rent (or total owner revenue) instead of the local property tax rate. PILOT policies also help developers be competitive in securing state financing.

The adoption of this policy increases affordable housing opportunities for new and current residents, provides improved housing amenities, and attracts and retains affordable housing developments.



Greeks Clean the Streets

A record-breaking 300 student members of the Greek community at Central Michigan University joined the City of Mt. Pleasant's Neighborhood Resource Unit (NRU) to clean the neighborhood streets north of campus. This "Greeks Clean the Streets" event was established in 2012 and creates volunteer opportunities for Greek students to get involved in the community.

Division of Public Works Receives Community Forestry Grant

The Michigan Department of Natural Resources awarded a \$15,000 Community Forestry Grant to the City of Mt. Pleasant to conduct a right-of-way tree inventory. The city's previous inventory was completed more than 20 years ago. Since that time, many trees have been removed due to storm damage, age or disease. In response, 50-100 new trees have been planted each year.

This grant-funded inventory and report enables the city to conduct a citywide right-of-way tree assessment in Summer 2023. Over time, the city will have a comprehensive method to track plantings, removals, species, and the overall health of its right-of-way trees.

Free Tree Planting Program

The City of Mt. Pleasant plants a variety of trees in the city's right-of-way as part of the Urban Forestry Plan. Residential and commercial property owners are eligible for one free tree per year, to be planted in the right of way in front of their property.

The goal is to establish a diverse population of trees to guard against disease and pests which may damage or kill an entire tree species, and to enhance the aesthetic appeal of the streets. Tree applications and a complete tree brochure are available from the Division of Public Works, located at City Hall.

City Receives High Achiever Grant Funds for Home Exterior Projects

In 2022, there was \$65,543.48 available for home exterior improvement projects. Of this sum, \$15,543.48 was provided by the city and \$50,000 was funded by a Michigan State Housing Development Authority (MSHDA) high achiever grant. Due to Mt. Pleasant's previous success with this program, the 'high achiever' bonus was awarded by MSHDA so additional projects could be funded.

Since the program's inception in 2020, 27 household improvement projects, totaling \$233,511.41 have been accomplished: 20 in the city's west side neighborhood bordered by the Chippewa River; Pickard Street, High Street/M-20 and the western city limit; and seven in other areas of the city.

Awarded projects include roof repairs, porch and deck replacements, as well as window and door installations.



Infrastructure



Brown Street Receives Make Over; *Completed Ahead of Schedule*

The Brown Street reconstruction project (North Drive to High Street) was completed ahead of schedule and consisted of the removal and replacement of asphalt pavement, curbs and gutters. Partial sidewalk replacements were also completed and sidewalk ramps upgraded. A new storm sewer sump pump drain was installed behind the curb between South Drive and High Street, and was connected to existing storm sewer structures.

Crapo Street Reconstruction Project Completed

The Crapo Street reconstruction project (between Broadway and High Street), resulted in a roadway with many new amenities. These include: a new water main, asphalt pavement, curbs and gutters and a section of entirely new sidewalk. Partial sidewalk replacements were also completed. Restriping and on-street parking was shifted to the west side of the street to allow vehicles to now park safely on the street without encroaching into travel lanes.

Local Street Projects

- Illinois Street between Fancher and Main was reconstructed. Replaced asphalt, road base, curb and sidewalk, replaced handicap access ramps and installed storm sewers and pedestrian lighting on the north side of the roadway.
- New street scape (benches, trash receptacles, stamped and colored concrete bands and trees) were installed between Main and Franklin on Illinois Street.

Downtown Alley Reconstruction

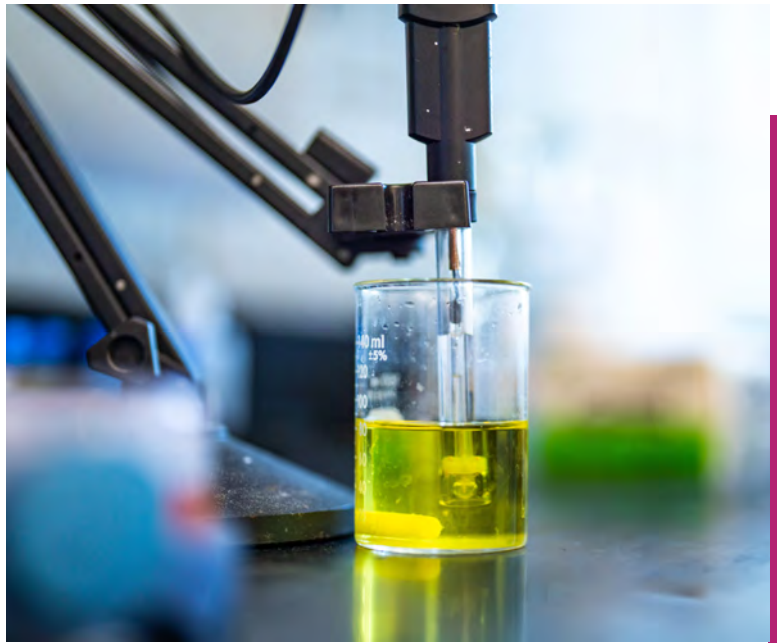
- Reconstructed the Downtown alleys between University Street and Parking Lot 8.

Additional New Sidewalk Installations

- Southmoor Drive between Crawford and Watson Street.
- Bellows Street from CMU Parking Lot 1 to Douglas Street.

City, CMU and MDHHS Join Forces to Monitor SARS-CoV-2 in Wastewater

The city's Wastewater Resource Recovery Facility (WRRF) has continued their collaboration with Central Michigan University (CMU) and the Michigan Department of Health and Human Services (MDHHS) to monitor wastewater samples for SARS-CoV-2. Results from this sampling has provided useful data regarding the spread of COVID-19 across our community and the State of Michigan. The city was recognized by the State for its continued work, commitment and dedication in the fight against COVID-19.



Water Resource Recovery Facility Upgrades

In 2022, the Water Resource Recovery Facility's (WRRF) multi-phase upgrade project began. The \$8.5 million first phase of this project includes; replacing the retention basin liner, installing a check valve to prevent floodwaters from entering the basin, replacing the aerated grit system, adding new grit vortexes, improving both the primary and secondary digesters, and installing a septage receiving system to remove debris, and monitor and record flow. Together these upgrades will improve the overall treatment process and energy consumption of the facility.



Public Safety



Benefits Stem from R.I.S.E. and Public Safety Partnership

The city has sustained its successful and valuable partnership with Recovery, Independence, Safety and Empowerment (R.I.S.E.) This agency provides support services for survivors of both domestic violence and sexual assault.

With an overwhelming need for mental health support, in March 2022, R.I.S.E. and the city added a Crisis and Trauma Response Clinician position, housed within the Division of Public Safety. This program went from serving 9 clients a month in March 2022, to 41 clients in December 2022, and this caseload is expected to grow. In total, more than 98 clients were served ranging from 8-90 years old.

Police and fire personnel have worked closely with the R.I.S.E. Crisis and Trauma Response Clinician and are therefore better equipped to effectively, safely and compassionately interact with individuals in need. At times, this clinician is also on scene to provide additional mental health resources.

Through this partnership, clients are now being supported on multiple levels and across agencies.



Free Smoke Alarms and Carbon Monoxide Detectors

Thanks to the State of Michigan's Fire Prevention Group, the Mt. Pleasant Fire Department distributed and installed free smoke alarms and carbon monoxide detectors to qualified private area residences.

Smoke alarms and carbon monoxide detectors save lives. According to the NFPA, the risk of dying in home structure fires is 55% lower in homes with working smoke alarms. This program is ongoing and residents interested in receiving a free detector assessment for their residence should email fire@mt-pleasant.org.

Mt. Pleasant Youth Police Academy Graduates 21st Class

"The Youth Police Academy made me a better person due to its discipline and challenges it provided. The police officers teaching the academy are very considerate and caring and are here to help us in so many ways."

-2022 Youth Police Academy Cadet

For three summer weeks, area youth going into grades 6-8 learned what it takes to become a law enforcement official: integrity, trust, leadership, compassion, and the ability to quickly assess a situation. Cadets also participated in physical training and completed the same agility tests given to police academy recruits.

The curriculum included demonstrations by specialized units such as the SWAT Team, K-9 Unit, DNR and the Mt. Pleasant Fire Department. Classroom topics encompassed crime scene investigations, traffic stops, marine patrol activities, firearm safety, first aid/CPR, and more. At the end of the academy, cadets earned their boater safety certificate, and were honored at a Graduation Ceremony.

In May of each year, applications for this free program are distributed through the schools, or can be picked up at the Division of Public Safety Building.



MPPD Awarded the Toys for Tots Law Enforcement Trophy

Toys for Tots personnel presented the Mt. Pleasant Police Department (MPPD) with the Law Enforcement Challenge trophy for collecting the most toys of all law enforcement agencies.

MPPD received close to 1,000 toys thanks to Krapohl Ford Lincoln hosting a collection event, and numerous community members who stopped by one of the (3) Cram-a-Cruiser events to donate high-quality toys. These cumulative efforts helped make the 2022 holiday season special for our community's youth.



Youth Services Unit Adds Second Officer Through Mt. Pleasant Public Schools Grant Funding

In existence since 1996, the Youth Services Unit (YSU) is a valuable program which involves police positively interacting with youth at an early age. YSU Officers spend considerable time in the Mt. Pleasant Public Schools (MPPS) to provide guidance and support for students. This ultimately forms lifelong bonds. The popular Youth Police Academy as well as Shop with a Cop, are just a few of the programs YSU hosts.

Originally, YSU consisted of 12 officers on staff from several law enforcement agencies. Unfortunately, funding challenges reduced the unit to only one officer from the Mt. Pleasant Police Department (MPPD). This sole officer serviced more than 3,000 (K-12) students in the MPPS. Finally, in 2022, another MPPD officer was added, doubling the unit's staff to two. This enhancement was a result of MPPS receiving State of Michigan grant funding.

The two MPPD YSU Officers are primarily housed in the high school and middle school, visiting elementary schools when able. The officers perform a wide variety of duties. They lead lockdown drills, provide presentations and present lectures to classes and groups, organize alcohol and tobacco sting operations, respond to calls for assistance, investigate complaints, attend sporting events, ensure orderly school drop off and pick up, refer students in crisis to mental health advocates, and help kids and parents find the programs and assistance needed to resolve family issues, among other duties.

YSU Officer Josh Theisen (Left) - 2022 Youth Police Academy



YSU Officer Chris Leonard - 2022 Shop with a Cop



Civic & Recreational Life



Clerks Office and CMU Share Valuable Election Information

During the month of October, City Clerk Heather Bouck was on CMU’s campus helping students locate their polling precinct, request an absentee ballot, or register to vote in Mt. Pleasant. This was part of CMU’s Vote Early Day which was funded by grants from MTV’s Early Voting is Easier Campus Challenge. CMU’s Mary Ellen Brandell Volunteer Center applied for the MTV grants.

Clerk’s Office Conducts Three Elections	Voter Turnout
May – Mt. Pleasant City Commissioner Election and Gratiot Isabella RESD proposal.	9%
August – Primary Election and Medical Care Facility’s Millage.	19%
November – Gubernatorial, Senate, House, City Commission Races and City Commissioner term lengths.	46%

November voters passed the Charter Amendment increasing the length of City Commissioner terms from 3 years to 4 years. In addition, the amendment requires City Commission elections to take place in November on even years, coinciding with presidential and gubernatorial races.

Citizens’ Academy Graduates New Class



Participants of the city-hosted Citizens’ Academy graduated after completing a seven-session program. This course engaged members of the community and expanded their knowledge of the structure and functions of local government. This is an annual course offering.

Island Park Ice Rink

Winter 2022 brought the return of the Island Park Ice Rink, after many years. Located in Island Park on the south softball field the 54' x 95' rink was open daily during the months of January and February from 8 a.m. – 9 p.m., weather permitting. There was no charge to use this facility, which is maintained by the City of Mt. Pleasant Parks Department.

PEAK Program Thrives in 2022

Since its inception in 2001, the PEAK program has provided all K-8 children with educational, enrichment and recreational activities in a fun and safe environment. PEAK enjoyed a busy and successful 2022, beginning with the receipt of two Childcare Stabilization Grants, totaling more than \$1.3 million. An additional \$657,162 was previously awarded in the fourth quarter of 2021. This state-funded grant was available to all Michigan licensed child care providers in good standing. Thanks to this grant funding, PEAK tuition rates were able to remain at the same rate since 2016. Scholarship opportunities were also expanded, awarding 217 summer camp and 122 after-school program scholarships.

PEAK summer camp was attended by 378 children, with a free breakfast and hot lunch provided to all camp participants. The after-school program served 304 children, and provided a healthy snack to all students.

PEAK attendees were able to go on a variety of field trips which included, but were not limited to: Potter Park Zoo, Dow Gardens, Morey Courts, the Discovery Museum, Island Park Splash Pad, and the CMU SAC swimming pool. The students were also able to attend the Saginaw Chippewa Indian Tribe's Elijah Elk Cultural Center for Living Culture and Traditions Seventh Generation Program.

In addition to PEAK's one full-time staff member and 48-55 part-time staff members, 90 students from Central Michigan University's Education department assisted with art, music, health and physical education lessons during the school year.



Mt. Pleasant Farmers Market Awarded Grant for Food Safety Educational Programming

The Mt. Pleasant Farmers Market was one of ten markets statewide to receive a food safety programming grant from the Michigan Farmers Market Association.

During Summer 2022, Mt. Pleasant Farmers Market staff and the MSU Extension Office hosted free educational food safety sessions. The once-a-month classes were offered during both the Thursday and Saturday markets in June, July and August. Sessions featured cooking demonstrations, recipes and food safety education.

Mt. Pleasant
[meet here]

320 W. Broadway Street
Mt. Pleasant, MI 48858

Phone: (989) 779-5300

www.mt-pleasant.org

Memorandum



TO: Aaron Desentz
City Manager

CC: William R. Mrdeza
Director of Community Services & Economic Development

FROM: Manuela Powidayko
Director of Planning & Community Development

DATE: March 3, 2023

SUBJECT: Planning Commission Annual Report

The Planning Commission approved the attached Annual Report for 2022 at their meeting on March 2, 2023.

Requested Action:

Receive the Annual Report.

Attachment:

1. Planning Commission Annual Report

2022 annual report

MT. PLEASANT PLANNING COMMISSION

Mt. Pleasant
[meet here]

CITY OF MT. PLEASANT PLANNING COMMISSION - 2022

Lesley Hoenig, Chair
Christine Ortman, Vice-Chair
Corey Friedrich
Yannis Haveles
Glen Irwin II
David Kingsworthy
Matthew Liesch
Andrew Devenney
Kelli Nicholas

STAFF

Manuela Powidayko, Director of Planning and Community Development
Laura Delamater, Office Professional

INTRODUCTION

This report is provided in accordance with the Michigan Planning Enabling Act, Public Act 33 of 2008. It reports the Commission's operations during the 2022 calendar year and the status of planning activities.

APPLICATION SUMMARY

The following table and chart provide a summary of the number of planning applications processed by the City in 2022, as well as the previous five years.

Planning Commission Applications by Type

Application Type	2017	2018	2019	2020	2021	2022
Special Use Permits (SUPs)	21	14	13	14	19	19
Site Plan Reviews (SPRs)	19	12	18	15	17	19
Map Amendments (Rezoning)	1	0	2	1	1	0
Text Amendments	1	3	6	2	5	7
Total Applications	42	29	39	32	42	45

In 2022, the Planning Commission held fourteen meetings and three work sessions.

PROJECT ACTIVITY

The Planning Commission recommended adoption of seven text changes in 2022, all of which were ultimately approved by the City Commission. The text changes included:

- An improvement to the zoning review process through the creation of a “minor site plan review” category, in which small changes to buildings and sites can be approved administratively. Additional flexibility for group day care homes and child care centers was also provided so those uses can be approved as-of-right within residential and commercial districts, without the need of a special use permit. Child care centers are also now allowed within a greater area of the city.
- Certain uses that required a special regulated use permit (such as palm readers, pool and billiard halls) are now considered a “commercial amusements” use, which is permitted as-of-right within Commercial and Industrial Districts.

- Amendment to provide clarification on how Registered Student Organizations were to be classified in the event they should lose their standing with Central Michigan University office of student life. In which case, these dwellings are to be categorized as rooming dwellings.
- Last, the ordinance now provides additional options for the placement of band signage on the building's facades. A couple of clarifications were also made, such as:
 - Adding a cross reference to the City Code Chapters that regulate adult-use marihuana establishments and medical marihuana facilities to ensure that the ordinance is automatically updated when there are changes adopted at the municipal-level, such as when the City removed the cap regulating the maximum number of licenses in Spring of 2022.
 - The definition of a liquor store was also clarified to exclude circumstances where a SDD or SDM license is used in conjunction with a license for on premise alcohol consumption.

The Planning Department worked with the Department of Public Works to develop a neighborhood traffic calming program. As a first step, two portable radar speed signs were purchased and installed at two locations to analyze traffic behavior during the first year of deployment.

The City also partnered with Central Michigan University to develop a sustainability self-assessment tool to improve the sustainability of City operations and improve the City's resiliency to climate change and other risks. Implementation tasks were developed across different Departments for implementation.

DEVELOPMENT ACTIVITY

The Little Red Wagon Daycare opened up in 2022 within a vacant existing building located at 1510 West High Street. Approved by the Planning Commission in January of 2022 (SUP and SPR), this project offered the opportunity for the City to re-evaluate its policy regarding childcare centers and group day care homes.

As a response to the current childcare crisis and the experience that this daycare had as a tenant trying to navigate the City's discretionary approval process, the City Commission approved a text amendment later in the summer of 2022, which made these uses allowed as-of-right within residential and commercial districts, without needing to pursue special approval by the Planning Commission.

The new tenant also increased the existing building's compliance with current zoning rules by providing bicycle parking, a dumpster enclosure and landscaping. The property owner was also tasked with building a new sidewalk facing the back of the property which will take place in 2023 and will provide pedestrian access to the residential neighborhood.



The Little Red Wagon Daycare at 1510 West High Street

The renovation of the old Pizza Hut building located at 1216 South Mission Street will be replaced by China Master, a high-end Chinese restaurant that is locally owned. The façade renovations have been successful in giving the existing structure its own architectural character. The restaurant was approved by the Planning Commission (SUP) as a Class-I restaurant so it can provide alcoholic beverages to its customers.



China Master Restaurant at 1216 South Mission Street

Also, on S. Mission Street, as a result of the impacts that the pandemic had on the restaurant industry, Jimmy Johns decided to relocate from being within the strip mall located at 1901 S. Mission Street to a vacant building previously used as a bank with drive-through at 2013 South Mission Street. The project was approved by the Planning Commission in June (SUP and SPR).

The renovations brought the existing structure into compliance with current rules for drive-through establishments as it included the relocation of the drive-through window and removal of the canopy, vehicular and bicycle parking upgrades, private landscaping and dumpster enclosure.



Jimmy Johns Restaurant at 2013 South Mission Street

Approved as-of-right, the private art studio located at 111 North Russell Street is an astonishing addition to the residential neighborhood.



Art Studio at 111 North Russell Street

2022 was another active year of construction related to the marihuana industry. JARS, a marihuana retailer, relocated its business from 1005 Corporate Drive to 1207 East Pickard Street, within the old Cranker's restaurant building. A marihuana grower also opened up within an existing building located at 1110 North Fancher Street.



JARS Marijuana retailer at 1207 East Pickard Street



Marijuana grower at 1110 North Fancher Street

COMMUNITY IMPROVEMENT AWARDS

Since 1979, the Planning Commission has presented Community Improvement Awards annually to recognize projects for their outstanding contributions to improving our community. For 2022, the following properties were recognized.

**Residential
Award**
502 S.
University
Ken Williams



Commercial Award

214 N.
Franklin
Jib Bob
Restaurant
Jung, LLC



MASTER PLAN IMPLEMENTATION

Mt. Pleasant 2050 – the City of Mt. Pleasant’s Master Plan adopted in November 2020 – includes an Action Plan in book 5 which outlines specific goals and objectives for implementation of the plan. A list of those objectives, and progress to date, is included below.

Objective		Progress
GOAL 1: Strive to ensure viable land uses that secure neighborhoods, enhance parks, and encourage vital businesses through sensible infill, complementary services, and targeted preservation.		
1.1	Encourage redevelopment that locates people within walkable and bikeable distances from essential services, jobs, and recreation. » Refer to Future Land Use Map during site plan review. » Continue to provide preliminary application meetings to developers. » Update housing market study periodically to maintain current perspective on housing needs.	The future land use map is referenced in all site plan reviews. Staff continues to hold pre-application meetings with interested developers prior to application to the Planning Commission or Zoning Board of Appeals.
1.2	Encouraged mixed uses and neighborhoods-scale business development to serve residential areas and complement Mission Street and Downtown. » Consider flexible business guidelines including home occupation rules for residential neighborhoods.	Prioritized for work session discussion by the Planning Commission in 2023.
1.3	Require new structures to harmonize with architectural precedents of highly-valued historical structures and landmarks.	No update.
1.4	Preserve neighborhood character through property maintenance requirements and code enforcement. » Pursue adoption of a property maintenance code for all residential properties in the City. » Periodically reevaluate code enforcement staffing levels to determine if those levels are sufficient to provide the level of service expected by the community.	An ordinance amendment to adopt property maintenance requirements was introduced to the City Commission. Staff continued to implement the Neighborhood Enhancement Program grant to help with owner-occupied exterior home improvements. The City was

	» Continue to utilize the Neighborhood Resource Unit to identify and prioritize neighborhood preservation and support activities.	able to secure a higher amount (\$75,000) from MSHDA.
1.5	<p>Improve landscape aesthetics and entryways within neighborhoods and business areas.</p> <p>» Consider a pilot program to fund neighborhood identity signage and neighborhood beautification.</p> <p>» Establish an annual tree planting goal.</p> <p>» Implement a tree planting program for commercial corridors and gateways.</p> <p>» Increase compliance of private landscaping with approved site plans.</p>	<p>The DDA is in the third year of a three-year grounds keeping contract which expires in 2023.</p> <p>Continue to inspect all sites prior to Certificate of Occupancy for landscape compliance.</p>
1.6	<p>Incentivize investment that addresses non-conforming land uses and blighted properties consistent with City codes and Zoning Ordinance.</p> <p>» Implement an incentive program which targets the conversion of non-conforming rooming dwellings in residential areas into conforming residential uses.</p> <p>» Explore establishment of a Neighborhood Enterprise Zone(s) to encourage neighborhood revitalization, owner occupied housing, and stimulate new investment.</p> <p>» Evaluate existing standards for improvement of nonconforming properties and determine if additional improvement opportunities should be permitted.</p>	<p>Staff updated the City Commission with new housing data that shows the current owner-occupancy vs. rental-occupancy rates (based on the number of properties as opposed to number of units within the City). This new analysis allowed for the dataset to not be skewed by student rentals within large apartment complexes. Based on the newly introduced numbers, the City Commission approved that staff introduce a draft policy for the adoption of Neighborhood Enterprise Zones in small targeted areas in 2023 to focus more on the improvement of the building stock and creation of the missing middle housing typologies as opposed to using the tool to incentivize the conversion of rentals into owner-occupied housing.</p>
1.7	<p>Encourage greater variety and mix of housing types within neighborhoods that provide opportunities for assisted living, downsizing, families, students, and first-time homebuyers.</p> <p>» Eliminate existing district density requirements to permit more missing-middle housing types to be developed citywide.</p> <p>» Reconsider the City's prohibition on PILOTs (payment in lieu of taxes).</p> <p>» Permit overnight on-street parking on City streets.</p>	<p>The City Commission adopted a PILOT Policy (payment in lieu of taxes) and will potentially select one affordable housing project in 2023</p>
1.8	<p>Enable adaptive reuse of structure to preserve historic buildings, particularly within the Downtown. Require new structures to be of similar quality and designed to be easily used for multiple purposes.</p>	<p>Consistent with standards within the current zoning ordinance.</p>
GOAL 2: Encourage smart, inviting, and attractive streets through infrastructure and operational investments that link people to places by walking, biking, driving and transit.		
2.1	<p>Support neighborhood traffic calming measures to ensure safety and improve right-of-way aesthetics.</p> <p>» Ensure that all local street reconstruction projects are designed for a target speed of 25 MPH.</p> <p>» Pursue funding to implement a neighborhood traffic calming program.</p> <p>» Utilize the Traffic Control Committee to identify potential traffic calming interventions.</p> <p>» Continue to utilize the traffic count program to annually evaluate traffic volume and speed on local streets.</p> <p>» Adopt standards for traffic calming measures on City streets.</p>	<p>The pilot program to utilize radar speed signs to increase awareness of speeding and compliance with speed limits was tested in the 2022 at two locations on W. Broadway and E. Preston. Unfortunately, there were no changes in speed. The City will relocate such speed signs into two other locations to continue to test the technology in 2023.</p>
2.2	<p>Maintain the roadway network and consistently evaluate system operations to ensure service objectives are met for all modes.</p>	<p>PASER data was collected for all roadways and sidewalks in 2020. This was utilized to plan maintenance and capital projects, such as road and sidewalks, which will be redone in 2023.</p>
2.3	<p>Partner with MDOT and CMU to reimagine Mission Street as a vital business district and front door to the community and university.</p> <p>» Establish quarterly meetings with MDOT and CMU to monitor project implementation.</p> <p>» Work with MDOT and CMU to scope a traffic feasibility analysis that prioritized pedestrian travel in all alternatives evaluated.</p> <p>» Identify funding strategy and design approval procedures and timeline for completing construction documents.</p>	<p>Quarterly meetings with MDOT and CMU began in 2021 and are ongoing. MDOT will conduct a modeling study for Mission Street in 2023 to test a few design options to reduce speed and increase multimodal services along the corridor.</p> <p>The Downtown Development Authority approved to enable \$60,000 to assist with the cost of closing and combining driveways within private properties along Mission Street in compliance with MDOT's Access Management Plan.</p>
2.4	<p>Retrofit the roadway network to provide safe accommodations for pedestrians and bicyclists.</p> <p>» Continue to consider bicycle and pedestrian accommodations in the design of all resurfacing and restriping projects as required by the City Complete Streets Ordinance</p> <p>» Explore collaborating with other local units of government to update the Mt. Pleasant Area Non-Motorized Transportation Plan.</p> <p>» Continue to require sidewalk installation where gaps exist in the network.</p>	<p>Pedestrian lighting, bike racks and benches were added on Illinois Street between Main and Fancher.</p> <p>The City has been installing sidewalks where gaps exist in the network along school routes, such as by closing the sidewalk gap at Crapo Street. A new sidewalk on the south side of Southmoor Street (a</p>

		walking route to Vowles Elementary School) was also built. Staff has also been requiring private properties located within Commercial Districts to build sidewalks when projects come forward to the Planning Commission for approval.
2.5	Improve wayfinding between neighborhoods, districts, and parks in and around the City. » Develop a Mt. Pleasant area wayfinding plan. » Consider use of the MUTCD approved bicycle route signage.	The Parks Department is working on a wayfinding plan and maps for the city's trails.
2.6	Expand public transit opportunities in the City and implement innovative mobility policies to improve choice and access for system users. » Work with I-Ride to increase transit service in the community. » Work with I-Ride to develop bus stop standards that are compatible with the City's complete streets ordinance.	No update.
2.7	Ensure that the Mt. Pleasant Municipal Airport continues to be utilized as a regional nexus, and link to the local transportation system. » Continue to partner with local units of government and businesses to financially support airport operations.	Formed a Joint Operations Board with Isabella County, Saginaw Chippewa Indian Tribe, Union Township, and Middle Michigan Development Corporation. Meetings held monthly.
2.8	Continue to evaluate parking assets and requirements to make sure that current and future technologies and travel patterns are encouraging the highest and best use of land. » Consider developing a parking management plan and continually updating it based upon current best practices.	No update.
GOAL 3: Activate the City's most underutilized sites to realize the value of nearby public and private assets through adaptable, durable, and future facing structures and landscapes.		
3.1	Promote economic vitality that is consistent with the City's form-based code and aesthetic values. » Consider participation in national conferences like NCSC to market the Mission corridor to potential developers. » Work with DDA to identify and develop a beautification strategy for the corridor and community gateways. » Continue to evaluate utility and infrastructure needs for future construction projects. » Maintain certification as a Redevelopment Ready Community.	The DDA is working with MDOT and other corridor stakeholders to further analyze current design conditions and suggest improvements based on that assessment. Certification maintenance activities are ongoing for the RRC program. Staff kicked-off an outreach process to assess ways in which the City's zoning ordinance can better accommodate economic opportunity and investment. The one-year recertification process will begin in March 2023.
3.2	Improve multimodal accessibility along and across major corridors. » Incorporate a dedicated pedestrian signal phase at every signalized intersection. » Evaluate opportunities to reduce crossing distances including installation of pedestrian refuge islands and beacons. » Install enhanced pedestrian signs and markings at existing and planned pedestrian crossing.	MDOT will conduct a modeling study for Mission Street in 2023 to test a few design options to reduce speed and increase multimodal services along the corridor. This analysis can then assist the City in considering similar design options to other corridors.
3.3	Promote a compatible relationship between commercial developments and adjacent land uses. » Enforce buffer standards through site development procedures. » Evaluate special use standards to ensure that those with light, noise, odor, or other adverse impacts are appropriately regulated to minimize impact.	Both items will be recommended for discussion by the Planning Commission in 2023. Uses requiring Special Use Permits will also be assessed if some of them could be approved administratively, on an as-of-right basis, in an effort to remove unnecessary barriers to development.
3.4	Continue to identify site development priorities and work to foster public private partnerships to create new places in the City. » Develop a strategy to market property at the former Mt. Pleasant Center for taxable development. » Continue to partner with the Michigan Economic Development Corporation to facilitate the redevelopment of priority sites.	Planning and future marketing of the Mt. Pleasant Center is currently on hold until deed language has been clarified through legislative action. Priority redevelopment site flyers and lists are maintained quarterly and advertised on the City's website.
3.5	Promote culturally sensitive, responsible, sustainable, and accessible site design throughout the City.	The character-based code is being implemented to promote these values.
3.6	Promote a vital mix of businesses and uses within the Downtown, including uses that have flexible hours of operation, provide entertainment, and events.	Staff conducts year-round promotion of businesses, activities and hours of operation via social media and radio.
3.7	Improve pedestrian access and walkability within the Downtown and the connections to surrounding neighborhoods and parks. » Develop a plan for the replacement of the Downtown streetscape. » Explore the feasibility of provided a more direct pedestrian connection between downtown and Island Park.	Pedestrian lighting was installed on the north side of Illinois between Main and Fancher in 2022.

	» Continue to evaluate opportunities to improve pedestrian lighting between neighborhoods and Downtown.	Trail around Broadway lofts installed in 2021 between Broadway Street and Island Park pedestrian bridge. Sidewalk was replaced on the south side of Broadway Street by the Painted Turtle. A settled area of brick pavers was also fixed on Main Street near Michigan Street.
3.8	Encourage incremental new development projects in outlying neighborhoods on the North, West, and East that are compatible with walkable neighborhoods form.	No updates.
GOAL 4: Build the value of the City's expansive park system beyond site borders to achieve synergy between ecological environments and programmed spaces while elevating the systems appeal to residents and visitors.		
4.1	Continue to develop facilities that serve Mt. Pleasant families and provide activities for all stages of life.	Island Park South Restroom began being updated to accommodate families and provide changing rooms for the splashpad in 2022.
4.2	Develop a City-wide bike/hike/path system that connects parks to neighborhoods, CMU, Downtown, Mission Street, and regional pathways.	Design of the GKB/Mid-Michigan Pathway North and South Connections was completed in 2022 and will be completed in 2023.
4.3	Improve pedestrian and bicycle access within the park system and provide recreation opportunities that are oriented towards non-motorized park access.	Design of the GKB/Mid-Michigan Pathway North and South Connections was completed 2022.
4.4	Continue and enhance park development, improvements, and maintenance.	Master Planning phase for Indian Pines began in 2022. Design and Engineering of Canal Street Park was completed in 2022.
4.5	Continue, expand and improve recreation programs.	Expanded farmer's market offerings by adding a health fair, Cook the Kit program with the Chippewa River District Library, and food safety demos made possible by a grant from the Michigan Farmer's Market Association. Added an Outdoor Adventure Explorers program for youth in our parks. Held the first Fishing 101 event on the State's Free Fishing Day.
4.6	Develop recreation-based partnerships with County, townships, CMU, schools, and the tribe.	Partnered with CMU Outdoor Recreation Department on Outdoor Adventure Explorers program for youth; partnered with the Tribe and CMU's Outdoor Recreation Department to offer a Fishing 101 event at the Tribe's large pond at their local campground; assisted with the planning of multiple CMU Recreation, Parks, and Leisure Department's Event Management program's community-events.
4.7	Improve and support river access and stewardship.	Worked with the Central Michigan Cooperative Invasive Species Management Area to place informational signage in the Parks regarding invasive exotic species.
4.8	Provide expanded recreation opportunities to residents that live east of Mission Street through development of new parkland.	No update.
4.9	Market City parks and recreation facilities to new and existing City residents to foster greater awareness.	No update.
GOAL 5: Foster collaboration in attaining a safe, healthy, fiscally solvent, and accessible City that is reflective of community culture, proactive to community preferences, and equitable in community resources.		
5.1	Increase tourism and marketing of the City to draw more people to the Downtown. » Consider establishing an annual marketing budget to be managed by the Downtown Development Director.	CBD-TIFA one-time funds were utilized, funding request for on-going marketing efforts were reduced to cover social media efforts and website maintenance.
5.2	Enhance and improve employment opportunities and training for higher paying/non-service sector jobs. » Continuing to partner with Middle Michigan Development Corporation to retain and attract employers to the region. » Continue to collaborate with Central Michigan University on the development of University Park.	Staff of the City, Middle Michigan Development Corporation (MMDC), and Central Michigan University Research Corporation meet monthly to discuss strategies for attracting development to the Smart Zone. City, MMDC, and Michigan Economic Development Corporation staff conduct retention calls with local manufacturers.
5.3	Encourage greater community involvement and coordination with public safety to help identify community issues, reduce crime, and increase safety. » Utilize the Neighborhood Resource Unit to promote the creation of neighborhood groups and associations.	No update.

	» Continue to maintain police visibility at public venues and events to provide opportunities for interactions between officers and members of the public.	
5.4	Increase cooperation and coordination between government and other organizations.	This effort will be continued every year as relationship building requires constant effort. The City continues to participate in regular meetings with county, CMU, tribal, and non-profit partners.
5.5	Improve neighborhood services and encourage creation of neighborhood organizations, particularly to strengthen the relationship between the City, local neighborhoods, CMU, and its students.	No update.
5.6	<p>Improve environmental services and regulations in City, particularly recycling opportunities.</p> <p>» Consider the formation of a climate change task force and development of a climate change action plan.</p> <p>» Continue to expand the type of materials accepted by the City recycling program.</p> <p>» Evaluate City operations to identify opportunities reduce environmental impact.</p>	The Water Resource Recovery staff partnered with CMU to pilot receiving food waste into the anaerobic digesters. Through the success of the pilot study, plans to construct a food waste receiving station became feasible. The WRRF team participated in a Next Cycle I2P3 challenge track through which \$500,000 in funding from EGLE was pledged to move forward with the project. The Food Waste Receiving Station is anticipated to be construction at the end Phase 2 of the WRRF Plant Upgrade.
5.7	<p>Continue to develop public facilities to serve the needs of City residents and visitors.</p> <p>» Develop a plan for the creation of an improved civic space at Town Center.</p>	Staff hired consultant services to create a design concept for the Town Center. Due to budget constraints, the City's engineering department created two design alternatives to reconstruct the Town Center while enhancing the space to better accommodate large events and a more accessible design. Staff continues to explore grant opportunities to fund improvements at Town Center.

Minutes of the regular meeting of the City Commission held Monday, February 27, 2023, at 7:00 p.m., in the City Commission Room, 320 W. Broadway St., Mt. Pleasant, Michigan with virtual options.

Mayor Perschbacher called the meeting to order.

The Pledge of Allegiance was recited.

Land Acknowledgement statement was recited.

Commissioners Present: Mayor Amy Perschbacher and Vice Mayor Mary Alsager; Commissioners Brian Assmann, Liz Busch, Bryan Chapman, Maureen Eke & Boomer Wingard

Commissioners Absent: None

Others Present: City Manager Aaron Desentz and City Clerk Heather Bouck

Proclamations and Presentations

Public Works Director Jason Moore gave a presentation on Drinking Water State Revolving Fund (DWSRF).

Moved by Commissioner Eke and seconded by Commissioner Busch to approve the Agenda as presented. Motion unanimously adopted.

Receipt of Petitions and Communications

Received the following petitions and communications:

2. Airport Joint Operations and Management Board January Meeting Minutes.
3. Downtown Development Authority October Meeting Minutes.

Moved by Commissioner Eke and seconded by Commissioner Chapman to approve the following items on the Consent Calendar:

4. Minutes of the special meeting of the City Commission held February 6, 2023.
5. Minutes of the regular meeting of the City Commission held February 13, 2023.
6. Minutes of the closed session of the City Commission held February 13, 2023.
7. Re-appoint Corey Friedrich as the representative of the Planning Commission to the Zoning Board of Appeals.
8. Bid of Central Asphalt, Inc. of Mt. Pleasant, Michigan for the 2023 Thin Overlay Project in the amount of \$594,082.95.
9. Bid of M & M Pavement Marking of Grand Blanc, Michigan for the 2023 Pavement Marking Project in the amount of \$27,435.40 as well as a budget amendment of \$4,640.
10. Acceptance of \$75,000 from the Michigan State Housing Development Authority (MSHDA) for a neighborhood enhancement grant, authorize the Mayor to execute the necessary documents, approve program guidelines and allocation of additional funds.

11. Purchase of AMI-equipped residential water meters from Metron-Farnier, LLC of Boulder, Colorado at a cost not-to-exceed \$60,000.
 12. Amendment to the Professional Services Contract with Fishbeck Engineering of Grand Rapids, Michigan as part of the Drinking Water State Revolving Fund (DWSRF) program application and budget amendment.
 13. Contract extension with The Mannik Smith Group of Canton, Michigan for Professional Environmental Consulting Services and Groundwater Analysis in an amount not-to-exceed \$26,700.
 14. Warrants dated February 13 & 23, 2023 all totaling \$337,720.86.
- Motion unanimously adopted.

Moved by Commissioner Eke and seconded by Commissioner Busch to approve contract with F & M Concrete of Dimondale, Michigan for the 2023 Sidewalk Project in the amount of 154,158.00, and approve a budget amendment of \$17,640 to cover the alternate locations, for a total project cost of \$165,638.00. Motion unanimously adopted.

Moved by Commissioner Eke and seconded by Commissioner Wingard to approve budget amendments for projects carried forward from 2022 as follows:

General Fund

- City Hall Building - \$50,000 for Borden Building Security
- Downtown/Public Spaces - \$5,000 for artwork at Illinois/University pedestrian island
- Downtown/Public Spaces - \$44,950 for engineering of parking lots 4 & 5
- Downtown/Public Spaces - \$43,370 for signage and fencing
- Police - \$100,600 for two patrol vehicles and upfit
- Fire - \$50,000 for admin vehicle and upfit
- Public Relations - \$67,100 for new website
- Parks - Canal Street - \$67,350
- Parks - GKB/MMPP Engineering - \$17,720
- Parks - Island Park Restrooms Upgrade - \$60,760
- Parks - Nelson Park Shop Remodel - \$62,710
- Parks - M-20 Bridge Design - \$17,990

Airport

- Truck - \$22,000
- Taxiway design - \$155,800

Water Resource Recovery Facility

- Meter reading equipment - \$20,000
- Oak Street lift station generator - \$25,000

Water

- Interconnection study - \$25,000
- Recarb Rehabilitation - \$55,000
- Flow Meter replacement - \$20,000
- Distribution replacement - \$40,000
- Transmission Main replacement - \$23,000

Motor Pool

- Airport Truck - \$14,000

Motion unanimously adopted.

Announcements on City-Related Issues And New Business

Commissioner Wingard expressed his support for the tiny homes organization and asked others to share information regarding the cause and provide community support for the project.

Mayor Perschbacher added that her office has a coin collection box available in which the funds collected go toward the project.

WORK SESSION – Discussion on Downtown parking.

Downtown Development Director Michelle Sponseller led a discussion on Downtown parking and presented the survey results.

Moved by Commissioner Chapman and seconded by Commissioner Eke to adjourn the meeting at 8:14 p.m. Motion unanimously adopted.

Amy Perschbacher, Mayor

Heather Bouck, City Clerk

Minutes of the special meeting of the City Commission held Monday, March 6, 2023 at 6:03 p.m. at the Mt. Pleasant Division of Public Safety, 804 E. High St.

Mayor Perschbacher called the meeting to order.

The Pledge of Allegiance was recited.

Land Acknowledgement statement was recited.

Commissioners Present: Mayor Amy Perschbacher; Commissioners Brian Assmann, Liz Busch, Bryan Chapman, Maureen Eke & Boomer Wingard

Commissioners Absent: Vice Mayor Mary Alsager

Others Present: City Manager Aaron Desentz, City Clerk Heather Bouck, Directors Mary Ann Kornexl, Paul Lauria, Jason Moore and William Mrdeza, Interim Fire Chief Doug Lobsinger, Assistant Finance Director Chris Saladine and Facilitator Lew Bender

Moved by Commissioner Eke and seconded by Commissioner Busch to approve the agenda as presented. Motion unanimously adopted.

Public Comment on Agenda and Non-Agenda Items

Kate Martin, 401 E. Palmer, commented that more people should attend meetings. She feels that many would volunteer and that many resources go untapped.

Work Session: Follow-up discussion on 2024 goals and objectives

Lew Bender led a follow-up discussion on 2024 goals and objectives.

Moved by Commissioner Eke and seconded by Commissioner Busch to adjourn the meeting at 8:17 p.m.

Amy Perschbacher, Mayor

Heather Bouck, City Clerk



City of Mount Pleasant, Michigan
DEPARTMENT OF PUBLIC SAFETY



MEMORANDUM

DATE: February 22, 2023
TO: Aaron Desentz, City Manager
FROM: Paul Lauria, Director of Public Safety
SUBJECT: Price Adjustment on 2023 Police Interceptor Vehicles

Request:

City Commission is requested to authorize the adjustment of the Police Capital Purchase authorization to accommodate the price increase for two (2) 2023 Ford Police Interceptors from \$42,820 to \$47,805 per vehicle for a total of \$95,610. Previously, during May 23, 2022 City Commission meeting the Commission approved the purchase for these vehicles at a price of \$85,640 from Krapohl Ford. Krapohl Ford recently made us aware of the pricing increase and indicated that we are on the order list and availability is limited. A budget amendment for the carryover of the 2022 budget was approved at the February 27, 2023 City Commission meeting.

Recommendation:

City Commission is requested to authorize the \$9,970 increase to the Police Capital Purchase authorization for the continued purchase (2) two 2023 Ford Police Interceptors from Krapohl Ford.

Memorandum



TO: Aaron Desentz, City Manager

FROM: Mary Ann Kornexl, Finance Director

DATE: March 1, 2023

SUBJECT: WRRF Bond

At the April 12, 2021 City Commission meeting a worksession was held regarding the improvements necessary to the Water Resource Recovery Facility identified in the plant master plan. This plan was incorporated into the 2022-2027 Capital Improvement Plan. It was noted that a project of this size would require a bond issue. Issuance of bonds for this project was anticipated in the demand rate approved by the City Commission for 2022 & 2023.

At the May 24, 2021 City Commission meeting, contracts were approved for a financial advisor, Bobby Bendzinski and bond counsel, Roger Swets. The next step was to contract with an engineering firm, Fishbeck. This was approved at the August 9, 2021 City Commission meeting. Upon completion of the construction cost estimates it was decided to split the project into two phases. Phase I bonds of \$8.5 million were sold in May 2022. Also, in May 2022 a contract with RCL Construction was approved for the work for \$7.7 million. Construction of Phase I is underway and is expected to be completed by the end of 2023.

We have been awarded Clean Water State Revolving Funds CWSRF for Phase II in the amount of \$18 million. The award includes a \$9million ARP Grant and a \$9 million bond issue at a discounted interest rate of 1.875%. The financial advisor and bond counsel have proposed we sell junior lien revenue bonds through the CWSRF program. The first step in the CWSRF bond process is for the City Commission to declare the intent to issue bonds. Once this is completed, it will be published in the newspaper and citizens will have 45 days right to a referendum on the bond issue. The notice of intent requires a maximum amount of the bond issue be set. The exact amount of the CWSRF bond issue will be determined at the time the bids are approved by the City Commission. It is anticipated the project will be bid in in May and awarded in July 2023.

Requested Action

Please include the following resolution, prepared by Roger Swets, for consideration of adopting on the March 13th City Commission agenda.

**CITY OF MT. PLEASANT
Isabella County, Michigan**

RESOLUTION NO. _____

**RESOLUTION TO PURCHASE, ACQUIRE AND CONSTRUCT
IMPROVEMENTS TO THE WATER RESOURCE RECOVERY SYSTEM
AND TO PUBLISH NOTICE OF INTENT TO ISSUE REVENUE BONDS**

Minutes of a regular meeting of the City Commission of the City of Mt. Pleasant, Isabella County, Michigan, held at the City Hall, on _____, 2023, at _____ p.m., local time.

PRESENT: _____

ABSENT: _____

The following preamble and resolution were offered by Member _____ and supported by Member _____:

WHEREAS, the City Commission deems it to be in the best interests of the City of Mt. Pleasant (the "City") to design, purchase, acquire and construct certain improvements to the City's Water Resource Recovery System and the wastewater treatment facility, including without limitation, equalization improvements, septage screen unit and building improvements, grit vortex tank improvements, grit handling building improvements, digester improvements, site grading and restoration work, upgrade and replace primary, biological, and final filtration treatment processes, encompassing the existing primary tanks, tertiary towers, rotating biological contactors, and final tanks with new treatment technology, design and implement new processes to better handle loading demands more efficiently, as well as all work, equipment, and appurtenances necessary or incidental to these improvements and such other improvements to the Water Resource Recovery System as the City may determine to make (the "Improvements"), and to finance the Improvements by the issuance of bonds pursuant to Act 94, Public Acts of Michigan, 1933, as amended ("Act 94"); and

WHEREAS, pursuant to Section 33 of Act 94, it is necessary to publish a Notice of Intent to Issue Bonds for the Improvements; and

WHEREAS, the City may proceed with the Improvements prior to the issuance of the bonds; and

WHEREAS, the City may incur substantial capital expenditures for the Improvements prior to the issuance of the bonds, and desires to be reimbursed for such expenditures from the proceeds of the bonds.

NOW, THEREFORE, BE IT RESOLVED that:

1. The City Commission determines to design, purchase, acquire, and construct the Improvements and to pay the cost through the issuance of one or more series of revenue bonds pursuant to Act 94 for the Improvements in an amount not to exceed \$18,000,000 (the “Bonds”).

2. A Notice of Intent to issue the Bonds be published in accordance with Section 33 of Act 94, and the Clerk of the City is authorized and directed to publish the Notice of Intent to Issue Bonds in a newspaper of general circulation in the City, which Notice shall be substantially in the form on the attached Exhibit A, with such changes as may be approved by the City Manager of the City.

3. The City may proceed to acquire and construct the Improvements using available funds of the City from the Water Resource Recovery Fund, which is a fund for the Water Resource Recovery System of the City, and other funds of the City.

4. At such time as the City issues the Bonds for the long-term financing of the Improvements, the City shall be reimbursed for its expenditures for the Improvements out of the proceeds of the Bonds.

5. This resolution and the expression of intent to seek reimbursement from future proceeds of the Bonds is intended to satisfy the requirements of Section 150 of the Internal Revenue Code of 1986, as amended.

6. The firm of Dickinson Wright PLLC is hereby employed as bond counsel to the City to prepare the documents for the issuance of the Bonds for financing acquisition of the Improvements and the officers of the City are authorized to enter into an engagement letter with bond counsel with fees as shown in the reports of the City’s municipal advisor.

7. All resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are rescinded.

YEAS: _____

NAYS: _____

ABSTAIN: _____

RESOLUTION DECLARED ADOPTED.

Heather Bouck, Clerk

CERTIFICATION

I certify that the foregoing is a true and complete copy of a Resolution adopted by the City Commission of the City of Mt. Pleasant, Isabella County, Michigan, at a regular meeting held on _____, 2023, and that public notice of that meeting was given pursuant to Act 267, Public Acts of Michigan, 1976, as amended.

_____, 2023

Heather Bouck, Clerk

[NOTE TO PUBLISHER – PUBLICATION MUST BE 1/4 PAGE SIZE]

EXHIBIT A

**NOTICE OF INTENT TO ISSUE
WATER RESOURCE RECOVERY SYSTEM REVENUE BONDS
TO THE ELECTORS OF THE CITY OF MT. PLEASANT**

PLEASE TAKE NOTICE that the City Commission of the City of Mt. Pleasant (the “City”) intends to issue bonds, in one or more series, in an amount of not to exceed \$18,000,000 (the “Bonds”).

The Bonds shall be issued to pay the cost to design, purchase, acquire and construct improvements to the City’s Water Resource Recovery System and the wastewater treatment facility, including without limitation, equalization improvements, septage screen unit and building improvements, grit vortex tank improvements, grit handling building improvements, digester improvements, site grading and restoration work, upgrade and replace primary, biological, and final filtration treatment processes, encompassing the existing primary tanks, tertiary towers, rotating biological contactors, and final tanks with new treatment technology, design and implement new processes to better handle loading demands more efficiently, as well as all work, equipment, and appurtenances necessary or incidental to these improvements and such other improvements to the Water Resource Recovery System as the City may determine to make, and to pay the costs of issuing the Bonds and capitalized interest, if any.

The Bonds of this issue shall mature within the maximum terms permitted by law with interest on the unpaid balance at a rate not to exceed the maximum rate permitted by law payable over not more than forty (40) years from the date of issuance of the Bonds. The Bonds shall be issued pursuant to Act 94, Public Acts of Michigan, 1933, as amended.

SOURCE OF PAYMENT

The principal of and interest on the Bonds shall be payable from the net revenues derived from the operation of the Water Resource Recovery System. In addition, the Bonds may be secured by the full faith and credit of the City as limited by applicable constitutional, statutory and charter limitations on the taxing power of the City.

RIGHT OF REFERENDUM

The Bonds will be issued without a vote of the electors approving such Bonds, unless, within 45 days from the date of publication of this Notice of Intent, a petition requesting a referendum, signed by not less than 10% or 15,000 of the registered electors residing within the limits of the City, whichever is lesser, shall have been filed with the Clerk of the City or other recording officer of the City requesting a referendum upon the question of the issuance of the Bonds. If such a petition is filed, the Bonds shall not be issued until approved by the vote of a majority of the electors residing within the City qualified to vote and voting thereon at a general or special election.

This Notice is published pursuant to the requirements of Section 33 of Act 94.

Heather Bouck, Clerk

Memorandum



TO: Aaron Desentz, City Manager

FROM: Stacie Tewari, City Engineer

DATE: February 27, 2023

SUBJECT: Approve Agreement with Isabella County Road Commission for the
Pickard-Bradley Traffic Signal

Based on public requests and the results of a traffic study, the Isabella County Road Commission (ICRC) will be installing a new traffic signal at the intersection of Pickard Road and Bradley Street in 2023. This intersection is under the jurisdiction of both the City and the ICRC, as it falls on a borderline at the city limits. The project is funded partially by a grant awarded by the State of Michigan. The City Commission authorized a city share on the project as part of the 2023 operating budget for \$84,100.00.

The ICRC will bid and award the project and pay the contractors with reimbursement of the funds by the city to the ICRC. We recommend approval of the attached city participation contract for reimbursement of the city share of the project for \$84,100 and authorization of the city manager to sign the contract.

CITY PARTICIPATION CONTRACT

This Agreement is made and entered into by and between the Board of County Road Commissioners for the County of Isabella, hereinafter referred to as the “**Road Commission**” and **City of Mt. Pleasant**, hereinafter referred to as the “**City**”, for the following improvements:

Project No. 465-14-031413 Bradley/Pickard Traffic Signal

Estimated Cost	\$403,474.61
Less State Funding	<u>- 200,000.00</u>
Local Share	\$203,474.61
Less ICRC Share	<u>- 119,374.61</u>
City of Mt. Pleasant Share	\$ 84,100.00

Payment as stated above will be due upon receipt of invoice. The Road Commission is hereby authorized to add to the unpaid balance a service charge of one percent (1%) per month on the unpaid balance of any and all of said sums remaining unpaid after thirty (30) days. Projects which carryover between fiscal years may be billed as the ratio of costs incurred to date. Carryover projects are those which require extensive work to be deemed complete.

The undersigned City officials, by executing this agreement, certify they are authorized to enter into this agreement on behalf of the City.

CITY OF MT. PLEASANT

By: _____
Manager

By: _____

City Commission
Approval on: _____

ISABELLA COUNTY ROAD COMMISSION

By: _____
Manager

By: _____
Board Secretary

Board Approval on: _____

Memorandum



TO: Aaron Desentz, City Manager

FROM: Stacie Tewari, City Engineer

DATE: February 28, 2023

SUBJECT: Award Contract for the 2023 Storm Sewer Extension Project Bid

Request:

The City Commission is requested to award the contract for the 2023 Storm Sewer Extension Project to G.A. Hunt Excavating, LLC of St. Johns, MI for \$164,102.00

Location:

The Storm Sewer Extension Project is planned for the area of Anna Street, from Broadway Street South to Dead End.

Reason:

State law dictates that sump pumps cannot be connected to the sanitary sewer system. When owners in the city upgrade or renovate their properties, many times it requires plumbing to be brought up to current codes. In recent years, there have been a number of residential properties that have had sump pump effluent run from front yards to the street in areas where homeowners have no other place to get rid of the groundwater. This can cause varying degrees of icing in the winters depending on conditions and can also lead to degradation of the street.

Sump pumps connected to the sanitary sewer system can cause backups of the sanitary sewer system in storm events. The project provides a drain for the storm and ground water to be disposed of as residents disconnect sump pumps from the sanitary drains in areas where storm drains are not currently available. This will be a multiyear project to add drains in various locations throughout the city.

On February 14, 2023, the following bids were received.

G. A. Hunt Excavating, St. Johns	\$164,101.04
The Isabella Corporation, Mt. Pleasant	\$240,743.00

Current Budget:

Storm Sewer Extension	\$198,000.00
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Recommendation:

I recommend the City Commission award the contract for the 2023 Storm Sewer Extension Project to G. A. Hunt Excavating, LLC for \$164,102.00.

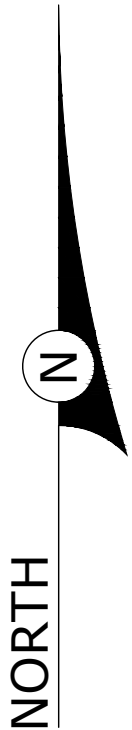
CITY OF MT. PLEASANT

DIVISION OF PUBLIC WORKS

2023 STORM SEWER EXTENSION PROJECT

SHEET INDEX

1. COVER SHEET
2. DETAIL SHEET
3. STA. 0+00 - 5+00 PLAN
4. STA. 5+00 - 10+00 PLAN
5. STA. 10+00 - 13+50 PLAN
6. STA. 13+50 - 16+50 PLAN
7. STA.16+50 - 20+00 PLAN
8. STA. 20+00 - 23+25 PLAN
9. SOIL EROSION AND SEDIMENTATION CONTROL KEY



CITY OF MT. PLEASANT, MICHIGAN

MAYOR
AMY PERSCHBACHER

COMMISSIONERS
BOOMER WINGARD
BRIAN ASSMANN
BRYAN CHAPMAN
MARY ALSAGER
MAUREEN EKE
ELIZABETH BUSCH

CITY MANAGER
AARON DESENTZ

DIRECTOR OF PUBLIC WORKS
JASON MOORE

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

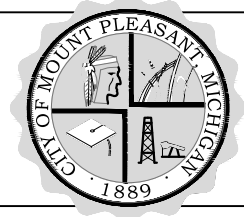
THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH THE AASHTO, A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 2011, & 2009 MMUTCD.

MISS DIG: CALL TOLL FREE 1-800-482-7171 MINIMUM OF THREE WORKING DAYS BEFORE STARTING THIS PROJECT, OR ANY DIGGING.

UTILITIES:
THE FOLLOWING UTILITIES ARE LOCATED IN OR NEAR THE RIGHT-OF-WAY OF THIS PROJECT.

UTILITY	OWNER	CONTACT
GAS	DTE/MICHCON 609 BJORNSON BIG RAPIDS, MI 49307	LARRY BOURKE (231) 349-2364 (CELL) (231) 592-3244 (DESK)
ELECTRIC	CONSUMERS ENERGY 1 CONSUMERS ENERGY PKWY CLARE, MI 48617	ERICA BAUMANN (517) 285-4629
TELEPHONE	FRONTIER COMMUNICATION 345 PINE STREET ALMA, MI 48801	DOUG HOVEY (989) 285-5192 (CELL) (989) 463-5497 (DESK)
TELEPHONE	WINNTEL COMMUNICATIONS 402 N MISSION ST, SUITE 1 MT. PLEASANT, MI 48858	MONTIE SMITH (989) 289-8455 (CELL) (989) 953-9800 (OFFICE)
CABLE	CHARTER COMMUNICATION 915 E. BROOMFIELD RD. MT. PLEASANT, MI 48858	BYRON CARROLL (989) 621-0505
CABLE	CMS INTERNET 131 S MAIN ST MT. PLEASANT, MI 48858	BRETT HALLIHAN (989) 330-9140
SEWER & WATER	CITY OF MT. PLEASANT 1303 N. FRANKLIN ST. MT. PLEASANT, MI 48858	ROBYN LIPTOW (989) 779-5407
CMU CONTACT	CMU PLANT ENGINEERING AND PLANNING MT. PLEASANT, MI 48858	JEN FLACHS (989) 774-6404

CALL MISS DIG
BEFORE DIGGING UNDERGROUND OR
WORKING NEAR OVERHEAD WIRES.
CALL MISS DIG AT LEAST 3 BUSINESS
DAYS IN ADVANCE OF STARTING YOUR
PROJECT. (800) 482-7171
IT'S THE LAW



CITY OF MOUNT PLEASANT
DIVISION OF PUBLIC WORKS
320 W. BROADWAY
MT. PLEASANT, MICHIGAN 48858
(989)-779-5401
WWW.MT-PLEASANT.ORG

COVER SHEET
2023 STORM SEWER EXTENSION
ANNA STREET

DESIGN BY **ES**
DRAWN BY **ES**
CHECKED BY **ST**
APPROVED BY **JM**

CONSTRUCTED
DATE OF PLAN **JAN 2023**
SCALE **NTS**
SHEET **1** OF **9** SHEETS

REVISIONS
DATE/INITIALS

CONTROL SECT. JOB NO. FED. PROJECT FED. ITEM NO.

PLOT DATE:

DRAWING PATH: J:\Construction\22 Const\Sidewalk\2022 SIDEWALK\DWG\2022 NEW SIDEWALK.dwg

FED. ITEM NO.

FED. PROJECT:

JOB NO.: 203-488-000-703.000

CONTROL SECTION: CAPITAL

2023 STORM SEWER EXT PROJECT

Memorandum



TO: Aaron Desentz, City Manager
FROM: Jason Moore, DPW Director
DATE: March 3, 2023
SUBJECT: Award Contract for Tree Inventory Services

Request

The City Commission is requested to award a contract for tree inventory services to PlanIT Geo, Incorporated, of Arvada, Colorado, for \$29,645.

Reason

Public Works desires to obtain a full inventory and health assessment of City-owned trees. This project includes species identification, health/condition, height, diameter, GPS coordinates of each tree, and the software to maintain this information. The City's last tree inventory was completed more than 20 years ago. The report is outdated and inaccurate due to the number of trees removed and replaced over time, and the absence of health assessment information of the entire inventory. The new inventory will help us better understand the composition, structure, and tree maintenance needs; plan for both short- and long-term resource allocation; and develop risk management strategies to maintain a healthy urban canopy.

The project includes a city-wide tree inventory, health assessment, and management plan of approximately 7,700 trees within the rights-of-way and park system; Privately-owned trees will not be included. Upon completion, the inventory data will be integrated into the City's geographic information system (GIS).

Proposals were requested from qualified companies staffed with certified arborists and a proven track record of completing similar projects. Three proposals were received.

	Wiregrass Ecological Lexington, SC	PlanIT GEO, Inc. Arvada, CO	ArborPro, Inc. Yorba Linda, CA
Kick-Off Meeting	\$500	Included	Included
Inventory	\$26,000	\$29,645	\$35,805
Narrative Report	\$2,000	Included	Included
Data Management Software	Included	\$3,500/Yr., first six months included	1 Yr. license and training included
Total Base Price	\$28,500	\$29,645	\$35,805
Tree Re-Inventory, per request	\$4.00	N/A	N/A

After a thorough review of the proposals, staff recommends award of the contract to PlanIT Geo. They have a proven track record of completing similar projects successfully, and possess the necessary resources, including equipment

and personnel, to complete the project within the stipulated timeframe and budget. Their arborists are knowledgeable in species native to the Midwest, having completed tree inventories in Indiana and Ohio.

Earlier this year, the City received grant funds of \$15,000 from the Michigan DNR Urban and Community Forestry Program for this project.

Recommendation

I recommend the City Commission award the contract for tree inventory services to PlanIT Geo, Inc., for \$29,645. Funds of \$30,000 are available in the 2023 Local and Major Street Department Budgets.

Memorandum



TO: Aaron Desentz, City Manager

FROM: Phil Biscorner, Director of Parks and Public Spaces
Tim Middleton, Deputy DPW Director

DATE: March 3, 2023

SUBJECT: Approve Purchase of Aktivov Asset Management Software and Budget Amendment

Request

The City Commission is requested to approve the purchase of Aktivov Asset Management software for \$38,000, and a budget amendment of \$15,000 for the Parks budget.

Reason for Purchase

For a number of years, the Water Department and Water Resource Recovery Facility have used MP2, an asset management software program used for preventative maintenance management. At the time MP2 was implemented, it was comparable to other asset management programs, but it never truly met all of our needs. The software is antiquated compared to newer cloud-based programs. The version we are using is no longer supported by the company without purchasing a costly upgrade, but the program's drawbacks outweigh that option.

1. Limited functionality: MP2 software lacks some of the advanced features that are available in other asset management software. Its focus is maintenance management, but is better suited for the manufacturing industry rather than the Public Works sector.
2. User interface: The MP2 software is not very intuitive, which makes it difficult for new users to learn and navigate. Some users find it confusing and time-consuming to perform basic tasks.
3. Limited reporting options: The software has limited reporting options, which means users are unable to generate customized reports or access detailed analytics to help them make informed decisions.
4. No cloud-based option: MP2 is not cloud-based, so users cannot access it remotely. Staff in the field are unable to access it with a tablet or phone.
5. Limited customer support: The customer support for MP2 is limited, and for our version, no longer available without upgrading to a new version.

Staff researched various other asset management systems and determined that Aktivov, a cloud-based, customizable program specifically designed for Public Works, is a better option. Some of the advantages include:

1. Improved and Centralized Asset Tracking: Organizations can track assets more accurately and efficiently through real-time data tracking all in one place.
2. Customizable and Scalable: Aktivov is highly customizable and can be tailored to meet our specific needs. It can also grow as our needs change.
3. Streamlined Maintenance Management: By providing a centralized, cloud-based platform, Aktivov can help reduce maintenance and labor costs by streamlining maintenance activities, manage work orders, track maintenance history, etc.

4. User Friendly: The software offers a range of customizable options, allowing users to tailor the interface and functionality to their specific needs. Users can access the program from any computer, tablet or phone, anytime and from anywhere, allowing staff in the field to record maintenance activities in real-time.

Aktivov also features modules built specifically for cemetery management. Currently, the City's cemetery records are available in an Access database, which was developed in-house. The database is difficult to use and not able to be used in the field by cemetery staff. Cemetery information is available on the City's website, but is not real-time or user friendly. Many people frequent this data for genealogy study. The new cemetery modules will provide a cloud-based, centralized data management system and interface it with our existing GIS program. A citizen-side portal will be available on the City's website.

In addition, Aktivov will enable the Parks Department to generate work orders, streamline maintenance activities and increase efficiency.

The following is a quote provided by Aktivov and represents a 14-20% discount off the regular software pricing.

A. Enterprise license and Professional Services Water and Water Resource Recovery, one year license (Includes: Both plants, 15 lift stations, and 7 wells)	\$25,000.00
B. Enterprise license and Professional Services Cemetery Module – City-Side, one-year license	\$6,000.00
C. Enterprise license and Professional Services Cemetery Module – Citizen Portal, one-year license	\$6,000.00
D. Enterprise license and Professional Services Parks Department, one-year license	\$2,960.00
5% Bulk Discount Provided	(\$1,998.00)
Total Cost for Software and One-Year Licenses	\$37,962.00

Approval of a budget amendment of \$15,000 from the General Fund is required for the purchase of the Parks and cemetery modules (Items B, C and D).

The annual maintenance and support costs beginning in year two are \$14,000, \$3,100 and \$3,500 respectively. These amounts will be included in the 2024 operational budgets for each department.

Recommendation

We recommend the City Commission approve the purchase of the Aktivov Asset Management software for the prices stated above and a budget amendment of \$15,000 for the General Fund portion. Funds for the Public Works software is available in the Water Plant and Water Resource Recovery Facility Reserve Funds, with \$6,250 from DWAM grant funding.



SEMI-ANNUAL TWO PERCENT ALLOCATION
CITY OF MT. PLEASANT REQUESTS
SPRING 2023

<u>DEPARTMENT/PROJECT NAME</u>	<u>AMOUNT</u>	<u>PRIORITY</u>
<i>Community Services</i>		
Mid Michigan/GKB Riverwalk Pathway Northern Connection	\$ 200,000	H
Design and Engineering, Bidding and Construction Services		
M-20 Pedestrian Bridge Replacement	\$ 138,000	H
Town Center Civic Space	\$ 430,000	M
<i>Public Safety</i>		
Aerial Fire Apparatus	\$ 100,000	H
Axon Vehicle and Body Camera System	\$ 130,005	C
iRecord Interview Room System	\$ 35,426	C
Mid-Michigan Investigative Narcotics Team	\$ 62,400	C
Youth Services Unit Tahoe	\$ 58,000	C
<i>Public Works</i>		
1303 N Franklin Former Landfill Remediation & Monitoring	\$ 50,000	L
Automatic Water Meters	\$ 59,940	M
Airport Operations	\$ 80,000	C
City Hall Retaining Walls-Broadway Street Sidewalk Replacement	\$ 122,000	M
City ROW Tree Inventory	\$ 15,000	M
Close Sidewalk Gaps	\$ 89,000	M
Food Waste/Organics Receiving	\$ 300,000	M
Lime Disposal	\$ 215,000	H
Overlays and Street Resurfacing	\$ 577,000	M
Pickard and Bradley Traffic Signal	\$ 84,100	H
Pickard Storm Sewer	\$ 208,500	H
Screening and Debris Removal Odor Control and Rehabilitation	\$ 16,000	C
Sidewalk Replacement	\$ 150,000	L
Storm Sewer Extensions	\$ 82,050	M
Total Requested	\$ 3,202,421	

Overview

Project Name

Mid-Michigan/GKB Pathway North Connection Design and Engineering, Bidding, and Constructions services

Total Requested

\$200,000.00

(amount based on the Itemized Budget total)

Applicant Project Priority

High

Reoccurring Need?

Not Reoccurring

Applicant Information

Applicant Name

pbiscorner@mt-pleasant.org

Applicant Email

Phil Biscorner

Organization

City of Mt. Pleasant

Address

320 West Broadway

Mt. Pleasant , 48858

Phone Number

989-779-5328

Organization Information

Primary Organization

City of Mt. Pleasant

Authorizers

adesentz@mt-pleasant.org

Status

Review

Address

320 W. Broadway

Mount Pleasant, Michigan 48858

Phone

(989) 779-5300

Fax

Project Partners

Partnered With

Union Township

Authorizers

Mark Stuhldreher mstuhldreher@uniontownshipmi.com

Status

Review

Address

2010 S Lincoln Road

Mount Pleasant, Michigan 48858

Phone

989-772-4600

Fax

989-773-1988

Categories

- Infrastructure
- Park Improvements
- Transportation

Project Description

The Project request is for funds to secure Design, Engineering, Bidding, and Construction services for the 2024 Mid-Michigan Pathway and GKB Riverwalk North Connection.

Benefit Description

This pathway would add additional community-wide pedestrian access to the GKB Riverwalk Trail, connect Mission Creek Park to the GKB Riverwalk Trail and connect the City of Mt. Pleasant dog park to the pathway system. The dog park is a partnership between the City, Union Township, and the Friends of the Dog Park citizen’s group. The trail addition would also create a northerly connection point for the Mid-Michigan Community Pathway to connect to Clare in the future. Connection points to regional pathway systems have been shown to increase the ability to obtain grant funding for pathway projects and increase the number of visitors to a community having positive economic benefits. Pathway projects also contribute to a reduction in obesity and provide an overall positive health benefit to the community. This project also supports the philosophy and many of the recommendations contained in the Greater Mt. Pleasant Area Non-Motorized Plan.

Funding Requirements

Partnerships with area agencies will be a focus along with pursuit and leveraging of available grant resources to design the trail in 2022 and construct in 2024.

Project Timeline

This project is proposed to be complete in Spring/Summer 2024

Budget Items

Name	Cost	Quantity	Total	Category
Mid-Michigan/GKB Pathway North Connection Design and Engineering, Bidding, and Constructions services	\$200,000.00	1	\$200,000.00	Infrastructure
AmountRequested	\$200,000.00			

Matching Funds

Name	Cost	Quantity	Total
Union Township	\$200,000.00	1	\$200,000.00
TAP Grant	\$400,000.00	1	\$400,000.00
Mt. Pleasant	\$500,000.00	1	\$500,000.00
AmountMatched	\$1,100,000.00		

Budget Summary

Amount Requested

\$200,000.00

Amount Matched

\$1,100,000.00

Total Amount

\$1,300,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
M-20 Pedestrian Bridge Replacement

Total Requested
\$138,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
High

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
pbiscorner@mt-pleasant.org

Applicant Email
Phil Biscorner

Organization
City of Mt. Pleasant

Address
320 West Broadway
Mt. Pleasant , 48858

Phone Number
989-779-5328

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure
- Park Improvements
- Transportation

Project Description

The Project request is for funds to hire a firm to provide Design, Engineering and bidding services and acquire a replacement for the M-20 Pedestrian Bridge which is a major connection point for the GKB Riverwalk Trail System over the Chippewa River. The GKB Riverwalk Trail System is also part of the greater Mid-Michigan Pathway which is proposed to extend from Ithaca to Clare.

Benefit Description

In Spring of 2021 the City requested and received \$15,100 from the Saginaw Chippewa Indian Tribe 2% grants and provided an additional \$6,900 from the Capital Improvement Fund for a total of \$22,000 to repair and repaint the pedestrian bridge that is part of the Mt. Pleasant Riverwalk Trail that crosses the Chippewa River at High Street (M-20 West). The request was based on a verbal quote from a paint contractor. This wood and steel foot bridge is located alongside the concrete MDOT vehicular bridge that crosses the River and is owned and maintained by the City of Mt. Pleasant after being transferred to City ownership by MDOT. This footbridge and trail along High St. from Watson St. to Chipp-A-Waters Park was built in 2003 as a joint venture between the City of Mt. Pleasant and the Michigan Department of Transportation (MDOT). MDOT was originally responsible for the bidding and construction management of the project. After the project was complete, operation and maintenance of the bridge and trail became the responsibility of the City Parks Department and is an important link in the overall Mt. Pleasant Riverwalk trail.

The City received concerns from a third-party consultant that there were issues with the original paint system, splice plates, and additional unknown damage that will be visible only after sandblasting. Based on those concerns, the consultant recommended that the bridge needs to either be replaced or repainted in the next two years. Because of difficulty finding a MDOT certified bridge painter, combined with the cost of painting and additional concerns over the quality of the existing bridge, staff has determined that a new bridge is the proper way to move forward.

The replacement of this pedestrian bridge not only would allow for the continued use of the community-wide pedestrian access to the GKB Riverwalk Trail, it would also allow for a more typical structure lifespan of 50-75 years. Connection points to regional pathway systems have been shown to increase the ability to obtain grant funding for pathway projects and increase the number of visitors to a community, which would have positive economic benefits. Pathway projects also contribute to a reduction in obesity and provide an overall positive health benefit to the community. This project also supports the philosophy and many of the recommendations contained in the 2011 Greater Mt. Pleasant Area Non-Motorized Plan as previously adopted by the City and Union Township.

Funding Requirements

Partnerships with area agencies will be a focus along with pursuit and leveraging of available grant resources to replace the bridge in 2023.

Project Timeline

This project is proposed to be completed in Fall 2023

Budget Items

Name	Cost	Quantity	Total	Category
Design, Engineering and bidding services	\$138,000.00	1	\$138,000.00	Infrastructure
AmountRequested	\$138,000.00			

Matching Funds

Name	Cost	Quantity	Total
Replacement Bridge	\$550,000.00	1	\$550,000.00
AmountMatched	\$550,000.00		

Budget Summary

Amount Requested

\$138,000.00

Amount Matched

\$550,000.00

Total Amount

\$688,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
Town Center Civic Space Upgrades

Total Requested
\$430,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
msponseller@mt-pleasant.org

Applicant Email
Michelle Sponseller

Organization
City of Mt. Pleasant

Address
320 West Broadway
Mt. Pleasant , 48858

Phone Number
9897795348

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Economic development
- Infrastructure
- Park Improvements

Project Description

The Town Center Civic Space Upgrades project is a key initiative by the City of Mt. Pleasant to create a dynamic community space that is accessible and inclusive to all members of the community. The project will involve the reconstruction of parking lot #3, the small existing green space and by closing Mosher Street. The proposed design will increase the green space by 4 ½ times, add more parking spaces to the existing parking lot, upgrade electrical for special events, install electrical car charging stations and incorporate Universal Accessibility design principles. The total cost of these upgrades is estimated at \$430,000.

The total project estimated cost is \$1,139,890, and is intended to be a long-term investment in the city's economic development. The

proposed Town Center Civic Space will be an attractive destination for tourists and will help to create a vibrant business district in the heart of Mt. Pleasant. More importantly, the project will be a community gathering space, providing year-round entertainment for all ages and abilities, and an outdoor venue for art, music, and other events.

Benefit Description

The primary objectives of the Town Center Civic Space Upgrades are:

- Create an accessible and inclusive community gathering space that will be a family-friendly attraction and a hub for year-round entertainment.
- Improve the aesthetic appeal of the city's downtown area, creating a more vibrant and inviting environment for residents and visitors.
- Create additional parking spaces that will help to alleviate parking issues in the downtown area and support local businesses.
- Incorporate Universal Accessibility design principles into the project, ensuring that all members of the community can access and enjoy the space.
- Support the city's economic development goals by creating a vibrant business district and attracting more tourists to the area.

Funding Requirements

The estimated cost for the Town Center Civic Space Upgrades is \$430,000. The budget breakdown is as follows:

- Demo and site work to close Mosher street, expansion of green space, (7) additional parking spaces, engineering and design: \$355,000
- Electrical for special events: \$40,000
- Dual car charging station: \$35,000

Project Timeline

The proposed timeline for the Town Center Civic Space Upgrades project is as follows:

- May - August 2023: Project planning and design phase, including community engagement and public consultation phase
- October 2023: Final design
- December 2023: Project bid
- May 2024: Construction phase begins
- October 2024: Project completion

Budget Items

Name	Cost	Quantity	Total	Category
• Demo and site work to close Mosher street, expansion of green space, (7) additional parking spaces, engineering and design: \$355,000	\$355,000.00	1	\$355,000.00	Infrastructure
• Electrical for special events	\$40,000.00	1	\$40,000.00	Infrastructure
• Dual car charging station	\$35,000.00	1	\$35,000.00	Infrastructure
AmountRequested	\$430,000.00			

Matching Funds

Name	Cost	Quantity	Total
Reconstruction of parking lot	\$709,890.00	1	\$709,890.00
AmountMatched	\$709,890.00		

Budget Summary

Amount Requested

\$430,000.00

Amount Matched

\$709,890.00

Total Amount

\$1,139,890.00

Uploaded Files

Name
Parking Lot 3 Reconstruction and Civic Space Budget
Concept for Parking Lot 3 Reconstruction and Town Center Civic Space

There are no comments to display.

City of Mt. Pleasant, Michigan
Town Center Reconstruction - Eliminate Mosher Street Between Main and Broadway. Combine
lots 3 and 10.
1/9/2023

Base Items - Remove Mosher Street and New Parking Lot Construction

ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Preconstruction Audio/Video Recording	1	LS	\$ 2,000.00	\$ 2,000.00
Minor Traf Devices	1	LS	\$ 10,000.00	\$ 10,000.00
Relocate Flag Pole	1	LS	\$ 5,000.00	\$ 5,000.00
Light Std Fdn, Rem	4	Ea	\$ 500.00	\$ 2,000.00
Light Pole, Rem	4	Ea	\$ 500.00	\$ 2,000.00
Planter, Rem (Large)	5	Ea	\$ 500.00	\$ 2,500.00
Planter, Rem (Small)	7	Ea	\$ 100.00	\$ 700.00
Tree, Rem	20	Ea	\$ 900.00	\$ 18,000.00
Steps, Rem	1	LS	\$ 1,000.00	\$ 1,000.00
Signs, Rem	1	LS	\$ 1,000.00	\$ 1,000.00
Curb and Gutter, Rem	2,700	Ft	\$ 5.00	\$ 13,500.00
Pavt, Rem	4,500	Syd	\$ 12.50	\$ 56,250.00
Sidewalk, Rem	1,020	Syd	\$ 10.00	\$ 10,200.00
Sidewalk, Clay Brick Paver, Rem	356	Sft	\$ 5.00	\$ 1,780.00
Dr Structure, Rem	8	Ea	\$ 300.00	\$ 2,400.00
Sewer, Rem, Less than 24 inch	500	Ft	\$ 20.00	\$ 10,000.00
Sewer, 12 Inch, Cap	4	Ea	\$ 100.00	\$ 400.00
Dr Structure, Tap, 12 inch	2	Ea	\$ 500.00	\$ 1,000.00
Excavation, Earth (Grading)	1	LS	\$ 40,000.00	\$ 40,000.00
Underground Detention System	1	LS	\$ 70,000.00	\$ 70,000.00
Subgrade Undercutting, Type II	200	Cyd	\$ 20.00	\$ 4,000.00
Erosion Control, Filter Bag	5	Ea	\$ 125.00	\$ 625.00
Dr Structure, 48 inch dia	8	Ea	\$ 2,400.00	\$ 19,200.00
Dr Structure, cover, CB, Modified	8	Ea	\$ 900.00	\$ 7,200.00
Sewer, CI A, 12 inch, Tr Det B	700	Lft	\$ 60.00	\$ 42,000.00
Subbase, CIP, Min. \$5.00	1,700	Cyd	\$ 22.00	\$ 37,400.00
Aggregate Base, 8 Inch	5,000	Syd	\$ 12.00	\$ 60,000.00
HMA, 13A (3")	850	Ton	\$ 117.00	\$ 99,450.00
Hand Patching	50	Ton	\$ 250.00	\$ 12,500.00
Curb and Gutter, Conc, Det F4, Modified	1,500	Lft	\$ 28.00	\$ 42,000.00
Driveway Opening, Conc, Det M	80	Lft	\$ 24.00	\$ 1,920.00
Driveway, Nonreinf, Conc, 6 Inch	180	Syd	\$ 100.00	\$ 18,000.00
Slope Restoration	2,200	Syd	\$ 10.00	\$ 22,000.00
Sidewalk, Conc, 4 inch	6,300	Sft	\$ 5.50	\$ 34,650.00
Sidewalk, Conc, 6 inch	600	Sft	\$ 6.50	\$ 3,900.00
Stamped and Colored Concrete	500	Sft	\$ 20.00	\$ 10,000.00
Detectable Warning Surface, Modified	60	Ft	\$ 60.00	\$ 3,600.00
Furnish Light Pole, Double Fixture and Accessories	4	Ea	\$ 12,000.00	\$ 48,000.00
Install Light Pole	4	Ea	\$ 1,500.00	\$ 6,000.00
Replace existing wiring for light poles	1	LS	\$ 10,000.00	\$ 10,000.00
Tree, 2.5"	14	Ea	\$ 600.00	\$ 8,400.00
Parking signs and posts	1	LS	\$ 10,000.00	\$ 10,000.00
Pavt Mrkg, Waterborne, 4 inch, White	2,200	Ft	\$ 1.00	\$ 2,200.00
Pavt Mrkg, Waterborne, 4 inch, Blue	500	Ft	\$ 1.00	\$ 500.00
Pavt Mrkg, Waterborne, Blue, ADA Parking Symbol	4	Ea	\$ 100.00	\$ 400.00
Pavt Mrkg, Crosswalk, 4 inch White	400	Ft	\$ 1.00	\$ 400.00
Hanging Planter Baskets	4	Ea	\$ 400.00	\$ 1,600.00
Misc Removals and Cover Adjusts	1	LS	\$ 15,000.00	\$ 15,000.00
Irrigation	1	LS	\$ 20,000.00	\$ 20,000.00
Testing (Allowance)	1	LS	\$ 15,000.00	\$ 15,000.00
Contractor Staking (Allowance)	1	LS	\$ 20,000.00	\$ 20,000.00

Subtotal	\$825,675.00
Inflation (3%)	\$24,770.25
Contingency (10%)	\$85,044.53
Engineering (15%)	\$127,566.79
Total	\$1,063,056.56

Notes:

1. Estimate does not include masonry walls or decorative aluminum fencing (parking lot 8 costs for walls and fence - \$125,000)
2. Estimate includes new wiring for light poles, but does not include electrical upgrades for town center or new receptacles.
3. Estimate does not include parallel parking lanes on Main or Broadway.
4. Estimate includes hanging baskets, but no other planters.
5. Estimate does not include pedestrian lighting.

ADD ALTERNATE OPTIONS**Alternate - Dumpster Enclosure**

ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Dumpster Enclosure with Gates (12' x 18.6' for 2 dumpsters)	1	Ea	\$ 30,000.00	\$ 30,000.00
Conc Pavt, Reinf, 8 inch for dumpster enclosure	1	Ea	\$ 3,000.00	\$ 3,000.00

Total \$ 33,000.00

Alternate - Electrical and Receptacles for Town Center Events

ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Event electrical upgrade - new panel, receptacles	1	LS	\$ 40,000.00	\$ 40,000.00

Total \$ 40,000.00

Alternate - Add One Dual Car Charging Station

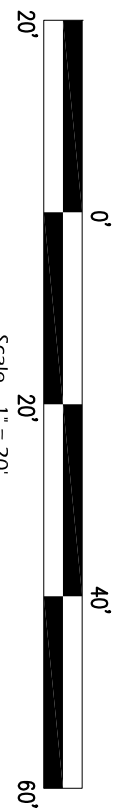
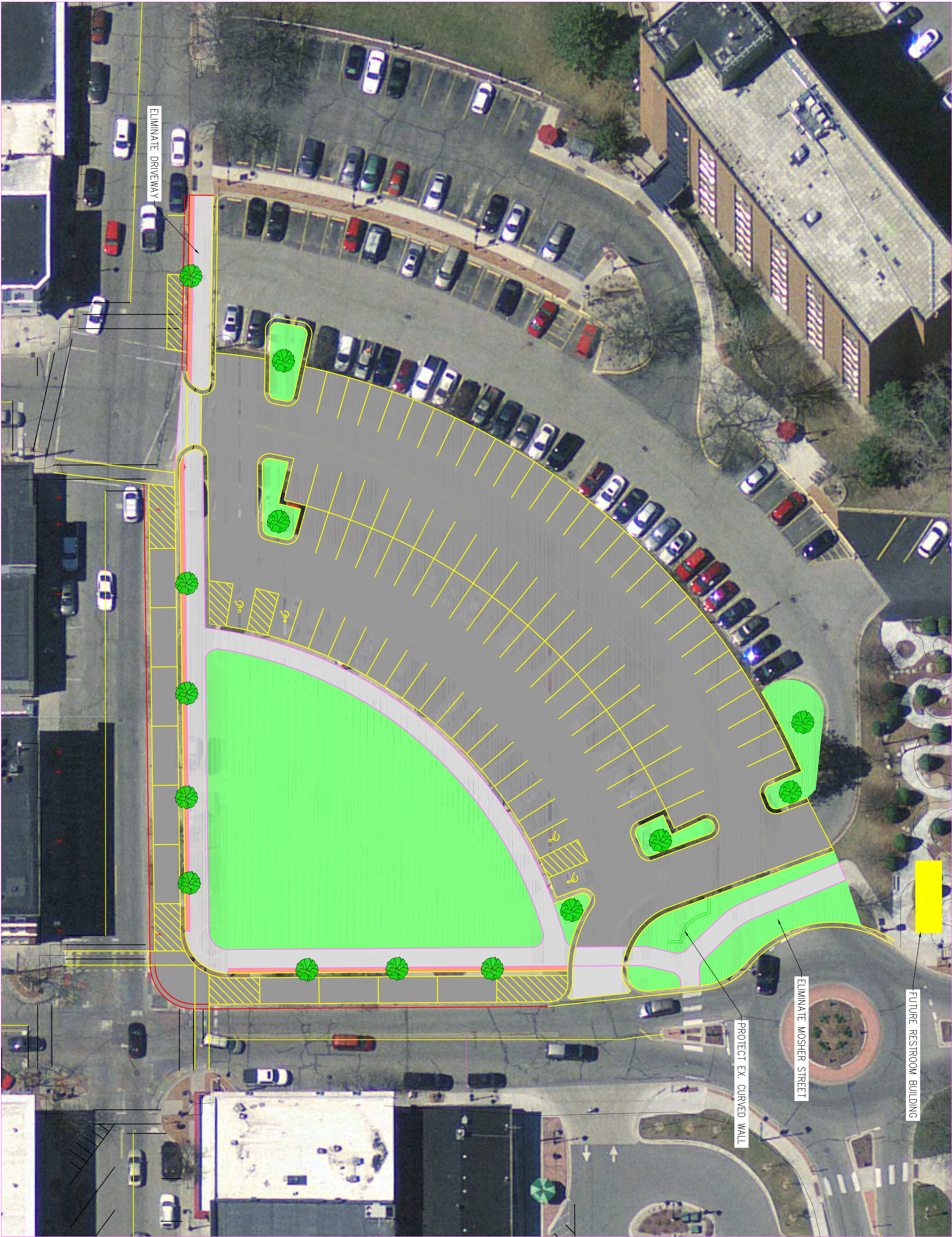
ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Dual Car Charging Station	1	Ea	\$ 35,000.00	\$ 35,000.00

Total \$ 35,000.00

Alternate - Remove Curbs and Add Parallel Parking With Streetscape and Ped. Lights
West Side of Main and North Side of Broadway
 (Assumes standard streetscape to match Michigan and Illinois)
 (Assumes removal and replacement of 2 decorative street lights. Roundabout lights to remain)

ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Curb and Gutter, Rem	500	Ft	\$ 5.00	\$ 2,500.00
Pavt, Rem	200	Syd	\$ 12.50	\$ 2,500.00
Light Std Fdn, Rem	5	Ea	\$ 500.00	\$ 2,500.00
Light Pole, Rem	5	Ea	\$ 500.00	\$ 2,500.00
Dr Structure, Tap, 12 inch	2	Ea	\$ 500.00	\$ 1,000.00
Excavation, Earth and Embankment (Grading work)	1	LS	\$ 5,000.00	\$ 5,000.00
Dr Structure, 48 inch dia	2	Ea	\$ 2,400.00	\$ 4,800.00
Dr Structure, cover, CB, Modified	2	Ea	\$ 900.00	\$ 1,800.00
Sewer, CI A, 12 inch, Tr Det B	100	Lft	\$ 60.00	\$ 6,000.00
Subbase, CIP, Min. \$5.00	250	Cyd	\$ 22.00	\$ 5,500.00
Aggregate Base, 8 Inch	700	Syd	\$ 12.00	\$ 8,400.00
HMA, 13A (3")	120	Ton	\$ 117.00	\$ 14,040.00
Hand Patching	22	Ton	\$ 250.00	\$ 5,500.00
Curb and Gutter, Conc, Det F4, Modified	500	Lft	\$ 28.00	\$ 14,000.00
Driveway Opening, Conc, Det M	500	Lft	\$ 24.00	\$ 12,000.00
Stamped and Colored Concrete	900	Sft	\$ 20.00	\$ 18,000.00
Tree Grates	8	Ea	\$ 2,000.00	\$ 16,000.00
Electrical Risers at Trees	8	Ea	\$ 500.00	\$ 4,000.00
Traffic/Parking signs and posts	1	LS	\$ 5,000.00	\$ 5,000.00
Pavt Mrkg, Waterborne, 4 inch, White	700	Ft	\$ 1.00	\$ 700.00
Pavt Mrkg, Crosswalk, 4 inch White	100	Ft	\$ 1.00	\$ 100.00
Misc Removals and Cover Adjusts	1	LS	\$ 5,000.00	\$ 5,000.00
Trash Receptacles	3	Ea	\$ 1,500.00	\$ 4,500.00
Benches on concrete pads	3	Ea	\$ 3,000.00	\$ 9,000.00
Bike Racks	2	Ea	\$ 1,300.00	\$ 2,600.00
Ped Lights Furnished and Installed	4	Ea	\$ 7,000.00	\$ 28,000.00
Street Lights Furnished and Installed	2	Ea	\$ 16,000.00	\$ 32,000.00
Hanging Planter Baskets	6	Ea	\$ 400.00	\$ 2,400.00
Banner Brackets	6	Ea	\$ 400.00	\$ 2,400.00
Replace existing wiring for light poles	1	LS	\$ 5,000.00	\$ 5,000.00
Irrigation	1	LS	\$ 7,500.00	\$ 7,500.00
Testing (Allowance)	1	LS	\$ 7,500.00	\$ 7,500.00
Contractor Staking (Allowance)	1	LS	\$ 7,500.00	\$ 7,500.00

Subtotal	\$245,240.00
Inflation (3%)	\$7,357.20
Contingency (10%)	\$25,259.72
Engineering (15%)	\$37,889.58
Total	\$315,746.50



LEGEND

- SOIL BORING LOCATION
- SEWERY MANHOLE
- STORM MANHOLE
- TREE
- WATER SHUT OFF VALVE
- FIRE HYDRANT
- CURB STOP
- CATCH BASIN
- TRAFFIC CONTROL SIGN
- LIGHT POLE

- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED GRASS



85 PARKING SPACES REMOVED
92 NEW PARKING SPACES
(INCLUDES 4 BARRIER FREE SPACES)
7 SPACES ADDED

NOTE – CAN ADD AN ADDITIONAL
11 SPACES WITH ON-STREET
PARKING ADDITIONS ON MAIN AND
BROADWAY AS SHOWN



CITY OF MOUNT PLEASANT
DIVISION OF PUBLIC WORKS
1303 N. FRANKLIN ST.
MT. PLEASANT, MICHIGAN 48858
(889) 779-5401
WWW.MT-PLASANT.ORG

2023 PARKING LOT 3 RECONSTRUCTION

PLAN CONCEPT

DESIGN BY: ST
DRAWN BY: ST
DATE OF PLAN: JANUARY 2023
SCALE: 1"=40'
APPROVED BY: JZ
SHEET 1 OF 1 SHEETS
REVISIONS
DATE/INITIALS

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.

PLOT DATE: SPATES

2023 PARKING LOT 3 RECONSTRUCTION

CONTROL SECTION:

JOB NO.:

FED. PROJECT:

FED. ITEM NO.

DRAWING PATH:

Overview

Project Name
Aerial Fire Apparatus

Total Requested
\$100,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
High

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
dlobsinger@mt-pleasant.org

Applicant Email
Doug Lobsinger

Organization
Mt. Pleasant Fire Dept.

Address
804 E. High St.
Mount Pleasant , 48858

Phone Number
9897795152

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Safety/Security

Project Description

In 1997 The City of Mt Pleasant along with funding from the Saginaw Chippewa Indian Tribe purchased a 102 foot Aerial Fire Apparatus more commonly known as a ladder truck. Our current Aerial Apparatus is 26 years old and in need of replacement. The Aerial apparatus allows firefighters to reach tall buildings, such as high-rise buildings, large commercial buildings, multi-story buildings in our downtown area and on CMU campus and on Tribal properties when requested. They can provide a high vantage point for supplying water to elevated master streams, utilized for ventilation, providing an access route for firefighters and an escape route for firefighters and people they have rescued.

Benefit Description

Currently the Mt. Pleasant Fire Department is available to assist the Tribal community in any fire or rescue situation. The purchase of this new Aerial Apparatus would enable us to maintain a level of response for fire suppression and enhance our ability to provide mutual aid to the Tribal community assisting in protecting its infrastructure such as the Soaring Eagle Casino, Hotel and Water Park while increasing our capabilities. Also, our department has mutual aid agreements with all other department within the county, as well as Clare and Alma. The purchase of this Aerial Apparatus would enable us to maintain that level of service to the citizens of Mt. Pleasant and Union Township, as well as providing mutual aid to the other communities in the surrounding area.

Funding Requirements

The maintenance and operation of this Aerial Apparatus would be maintained by Mt. Pleasant Fire Department.

Project Timeline

Not Entered

Budget Items

Name	Cost	Quantity	Total	Category
Aerial Fire Apparatus	\$100,000.00	1	\$100,000.00	Safety/Security
AmountRequested	\$100,000.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$100,000.00

Amount Matched

\$0.00

Total Amount

\$100,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name

Axon Vehicle and Body Camera System

Total Requested

\$130,005.00

(amount based on the Itemized Budget total)

Applicant Project Priority

Critical

Reoccurring Need?

This Request is Reoccurring

Applicant Information

Applicant Name

plauria@mt-pleasant.org

Applicant Email

Paul Lauria

Organization

Mt. Pleasant Police and Fire Department

Address

804 E. High St

Mount Pleasant , 48858

Phone Number

9893304378

Organization Information

Primary Organization

City of Mt. Pleasant

Authorizers

adesentz@mt-pleasant.org

Status

Review

Address

320 W. Broadway

Mount Pleasant, Michigan 48858

Phone

(989) 779-5300

Fax

Categories

- Safety/Security

Project Description

This project is for the replacement of 9 patrol vehicle camera systems. Our current vehicle camera system, L3 Mobile Vision was installed in 2014 and is past its service life. Many of the components are broken and are no longer available. In addition, this system cannot be upgraded to include body worn cameras that are used by police officers. Having a totally integrated vehicle and body worn camera system is the most effective and seamless way to implement a comprehensive system. For this reason, Axon Inc was chosen as the system to meets this need. This project will be broken up into 2 phases. The first phase of this project is to implement patrol vehicle cameras. Axon Inc is a leading manufacturer of a comprehensive vehicle and body worn camera system. The Axon vehicle cameras come with the latest technology of LPR (license plate readers), body microphone for audio recordings and tamperproof automatic downloading of video evidence. The recorded events are stored in the "cloud" and access is only given to authorized personnel. This video evidence in then used in court proceedings and other matters such as citizens' complaints to verify what did or did not occur.

The second phase includes integration of 30 body worn cameras. However, considerable examination has to be completed before this is done. Currently, we process approximately 700 Freedom of Information Requests per year. With the addition of 30 body worn cameras the number of requests is going to increase significantly. It becomes too much for the current coordinator to handle and may require the addition of a full-time employee. This position, if needed will have to be funded by the City at significant annual expense of wages and benefits. Doing this in 2 phases provides the time to do a thorough assessment of what is needed.

Benefit Description

The benefits of this project are vast. Having up-to-date high quality video equipment provides the community with the transparency it demands. Video evidence is the first aspect that is requested when a police officers' actions are being questioned. This video evidence provides an unbiased look at what took place during a specific incident. It eliminates the bias of the facts given by the officer and the other party involved. It allows the viewer to make their own assessment of the events that took place. The video of an incident can then be used by the police department for training officers, officer accountability, policy development and changes, civil and criminal court proceedings, as well as to build confidence and credibility with the entire community.

Funding Requirements

Maintenance of the vehicle cameras will be covered within the annual police department's budget.

Description of Reoccurring Need

Phase 1 of this project is the implementation of the 9 vehicle camera systems into patrol vehicles.

Phase 2 will be the integration of 30 body worn cameras into the new system. A one-time reoccurring Two-Percent Request will be completed at that time. The major consideration for doing this in two phases is to examine the impact of requests for videos to determine if an additional person is needed solely to process those requests. If necessary, this position would have to be funded by the city budget and could cost as much as \$75,000 per year.

Project Timeline

The first phase of implementing vehicle cameras will be started as soon as funding is secured.

Budget Items

Name	Cost	Quantity	Total	Category
Axon Patrol Vehicle Cameras	\$14,445.00	9	\$130,005.00	Safety/Security
AmountRequested	\$130,005.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$130,005.00

Amount Matched

\$0.00

Total Amount

\$130,005.00

Uploaded Files

Name
MPPDQuote 2023-03-07.pdf
AxonFleet3ProductCard 2023-03-07.PDF

There are no comments to display.



Axon Enterprise, Inc.
17800 N 85th St.
Scottsdale, Arizona 85255
United States
VAT: 86-0741227
Domestic: (800) 978-2737
International: +1.800.978.2737

Q-426041-44831.813KU

Issued: 01/27/2023



Quote Expiration: 07/01/2023

EST Contract Start Date: 07/01/2023

Account Number: 323132

Payment Terms: N30

Delivery Method:

SHIP TO	BILL TO
Business;Delivery;Invoice-804 E High St 804 E High St Mount Pleasant, MI 48858-3595 USA	Mount Pleasant Police Dept. - MI 804 E High St Mount Pleasant, MI 48858-3595 USA Email:

SALES REPRESENTATIVE	PRIMARY CONTACT
Keith Utter Phone: Email: kutter@axon.com Fax:	Paul Lauria Phone: (989) 779-5108 Email: plauria@mt-pleasant.org Fax: (989) 773-4020

Program Length	
TOTAL COST	\$130,000
ESTIMATED TOTAL W/ TAX	Exempt

PLAN NAME	INVOICE DATE	AMOUNT DUE
Mt. Pleasant Police Department	As Fulfilled	\$130,000.00

BILLED ON FULFILLMENT		
PLAN NAME	INVOICE DATE	AMOUNT DUE
None	As Fulfilled	\$130,000.00

Quote Details

Summary		
Item	Description	QTY
Core+	2022 Core+	30
Fleet3A	Fleet 3 Advanced	9

Fleet 3 Advanced Quantity: 9 Start: 7/1/2023 End: 11/30/2027 Total: \$130,000 USD			
Category	Item	Description	QTY
Bundle Scaler	999999	BUNDLE SCALER	1
Storage	80410	FLEET, UNLIMITED STORAGE, 1 CAMERA	18
E.com License	80400	FLEET, VEHICLE LICENSE	9
ALPR License	80401	FLEET 3, ALPR LICENSE, 1 CAMERA	9
Respond License	80402	RESPOND DEVICE LICENSE - FLEET 3	9
Camera Kit & Warranty	72036	FLEET 3 STANDARD 2 CAMERA KIT	9
Vehicle Installation	73391	FLEET 3 NEW INSTALLATION (PER VEHICLE)	9
Camera Refresh	72040	FLEET REFRESH, 2 CAMERA KIT	9
Axon Signal Unit	70112	AXON SIGNAL UNIT	9
Other	80495	EXT WARRANTY, FLEET 3, 2 CAMERA KIT	9
Other	80379	EXT WARRANTY, AXON SIGNAL UNIT	9

Standard Terms and Conditions

Axon Enterprise Inc. Sales Terms and Conditions

Axon Master Services and Purchasing Agreement:

This Quote is limited to and conditional upon your acceptance of the provisions set forth herein and Axon's Master Services and Purchasing Agreement (posted at www.axon.com/legal/sales-terms-and-conditions), as well as the attached Statement of Work (SOW) for Axon Fleet and/or Axon Interview Room purchase, if applicable. In the event you and Axon have entered into a prior agreement to govern all future purchases, that agreement shall govern to the extent it includes the products and services being purchased and does not conflict with the Axon Customer Experience Improvement Program Appendix as described below.

ACEIP:

The Axon Customer Experience Improvement Program Appendix, which includes the sharing of de-identified segments of Agency Content with Axon to develop new products and improve your product experience (posted at www.axon.com/legal/sales-terms-and-conditions), is incorporated herein by reference. By signing below, you agree to the terms of the Axon Customer Experience Improvement Program.

Acceptance of Terms:

Any purchase order issued in response to this Quote is subject solely to the above referenced terms and conditions. By signing below, you represent that you are lawfully able to enter into contracts. If you are signing on behalf of an entity (including but not limited to the company, municipality, or government agency for whom you work), you represent to Axon that you have legal authority to bind that entity. If you do not have this authority, please do not sign this Quote.

Signature

Date Signed

7/01/2023

FLEET STATEMENT OF WORK BETWEEN AXON ENTERPRISE AND AGENCY

Introduction

This Statement of Work ("SOW") has been made and entered into by and between Axon Enterprise, Inc. ("AXON"), and Mount Pleasant Police Dept. - MI the ("AGENCY") for the purchase of the Axon Fleet in-car video solution ("FLEET") and its supporting information, services and training. (AXON Technical Project Manager/The AXON installer)

Purpose and Intent

AGENCY states, and AXON understands and agrees, that Agency's purpose and intent for entering into this SOW is for the AGENCY to obtain from AXON deliverables, which used solely in conjunction with AGENCY's existing systems and equipment, which AGENCY specifically agrees to purchase or provide pursuant to the terms of this SOW.

This SOW contains the entire agreement between the parties. There are no promises, agreements, conditions, inducements, warranties or understandings, written or oral, expressed or implied, between the parties, other than as set forth or referenced in the SOW.

Acceptance

Upon completion of the services outlined in this SOW, AGENCY will be provided a professional services acceptance form ("Acceptance Form"). AGENCY will sign the Acceptance Form acknowledging that services have been completed in substantial conformance with this SOW and the Agreement. If AGENCY reasonably believes AXON did not complete the professional services in conformance with this SOW, AGENCY must notify AXON in writing of the specific reasons within seven (7) calendar days from delivery of the Acceptance Form. AXON will remedy the issues to conform with this SOW and re-present the Acceptance Form for signature. If AXON does not receive the signed Acceptance Form or written notification of the reasons for rejection within 7 calendar days of the delivery of the Acceptance Form, AGENCY will be deemed to have accepted the services in accordance to this SOW.

Force Majeure

Neither party hereto shall be liable for delays or failure to perform with respect to this SOW due to causes beyond the party's reasonable control and not avoidable by diligence.

Schedule Change

Each party shall notify the other as soon as possible regarding any changes to agreed upon dates and times of Axon Fleet in-car Solution installation-to be performed pursuant of this Statement of Work.

Axon Fleet Deliverables

Typically, within (30) days of receiving this fully executed SOW, an AXON Technical Project Manager will deliver to AGENCY's primary point of contact via electronic media, controlled documentation, guides, instructions and videos followed by available dates for the initial project review and customer readiness validation. Unless otherwise agreed upon by AXON, AGENCY may print and reproduce said documents for use by its employees only.

Security Clearance and Access

Upon AGENCY's request, AXON will provide the AGENCY a list of AXON employees, agents, installers or representatives which require access to the AGENCY's facilities in order to perform Work pursuant of this Statement of Work. AXON will ensure that each employee, agent or representative has been informed or and consented to a criminal background investigation by AGENCY for the purposes of being allowed access to AGENCY's facilities. AGENCY is responsible for providing AXON with all required instructions and documentation accompanying the security background check's requirements.

Training

AXON will provide training applicable to Axon Evidence, Cradlepoint NetCloud Manager and Axon Fleet application in a train-the-trainer style method unless otherwise agreed upon between the AGENCY and AXON.

Local Computer

AGENCY is responsible for providing a mobile data computer (MDC) with the same software, hardware, and configuration that AGENCY personnel will use with the AXON system being installed. AGENCY is responsible for making certain that any and all security settings (port openings, firewall settings, antivirus software, virtual private network, routing, etc.) are made prior to the installation, configuration and testing of the aforementioned deliverables.

Network

AGENCY is responsible for making certain that any and all network(s) route traffic to appropriate endpoints and AXON is not liable for network breach, data interception, or loss of data due to misconfigured firewall settings or virus infection, except to the extent that such virus or infection is caused, in whole or in part, by defects in the deliverables.

Cradlepoint Router

When applicable, AGENCY must provide AXON Installers with temporary administrative access to Cradlepoint's [NetCloud Manager](#) to the extent necessary to perform Work pursuant of this Statement of Work.

[Evidence.com](#)

AGENCY must provide AXON Installers with temporary administrative access to Axon Evidence.com to the extent necessary to perform Work pursuant of this SOW.

Wireless Upload System

If purchased by the AGENCY, on such dates and times mutually agreed upon by the parties, AXON will install and configure into AGENCY's existing network a wireless network infrastructure as identified in the AGENCY's binding quote based on conditions of the sale.

VEHICLE INSTALLATION

Preparedness

On such dates and times mutually agreed upon by the parties, the AGENCY will deliver all vehicles to an AXON Installer less weapons and items of evidence. Vehicle(s) will be deemed 'out of service' to the extent necessary to perform Work pursuant of this SOW.

Existing Mobile Video Camera System Removal

On such dates and times mutually agreed upon by the parties, the AGENCY will deliver all vehicles to an AXON Installer which will remove from said vehicles all components of the existing mobile video camera system unless otherwise agreed upon by the AGENCY.

Major components will be salvaged by the AXON Installer for auction by the AGENCY. Wires and cables are ~~not~~ considered expendable and will not be salvaged. Salvaged components will be placed in a designated area by the AGENCY within close proximity of the vehicle in an accessible work space.

Prior to removing the existing mobile video camera systems, it is both the responsibility of the AGENCY and the AXON Installer to test the vehicle's systems' operation to identify and operate, documenting any existing component or system failures and in detail, identify which components of the existing mobile video camera system will be removed by the AXON Installer.

In-Car Hardware/Software Delivery and Installation

On such dates and times mutually agreed upon by the parties, the AGENCY will deliver all vehicles to an AXON Installer, who will install and configure in each vehicle in accordance with the specifications detailed in the system's installation manual and its relevant addendum(s). Applicable in-car hardware will be installed and configured as defined and validated by the AGENCY during the pre-deployment discovery process.

If a specified vehicle is unavailable on the date and time agreed upon by the parties, AGENCY will provide a similar vehicle for the installation process. Delays due to a vehicle, or substitute vehicle, not being available at agreed upon dates and times may result in additional fees to the AGENCY. If the AXON Installer determines that a vehicle is not properly prepared for installation ("Not Fleet Ready"), such as a battery not being properly charged or properly up-fit for in-service, field operations, the issue shall be reported immediately to the AGENCY for resolution and a date and time for the future installation shall be agreed upon by the parties.

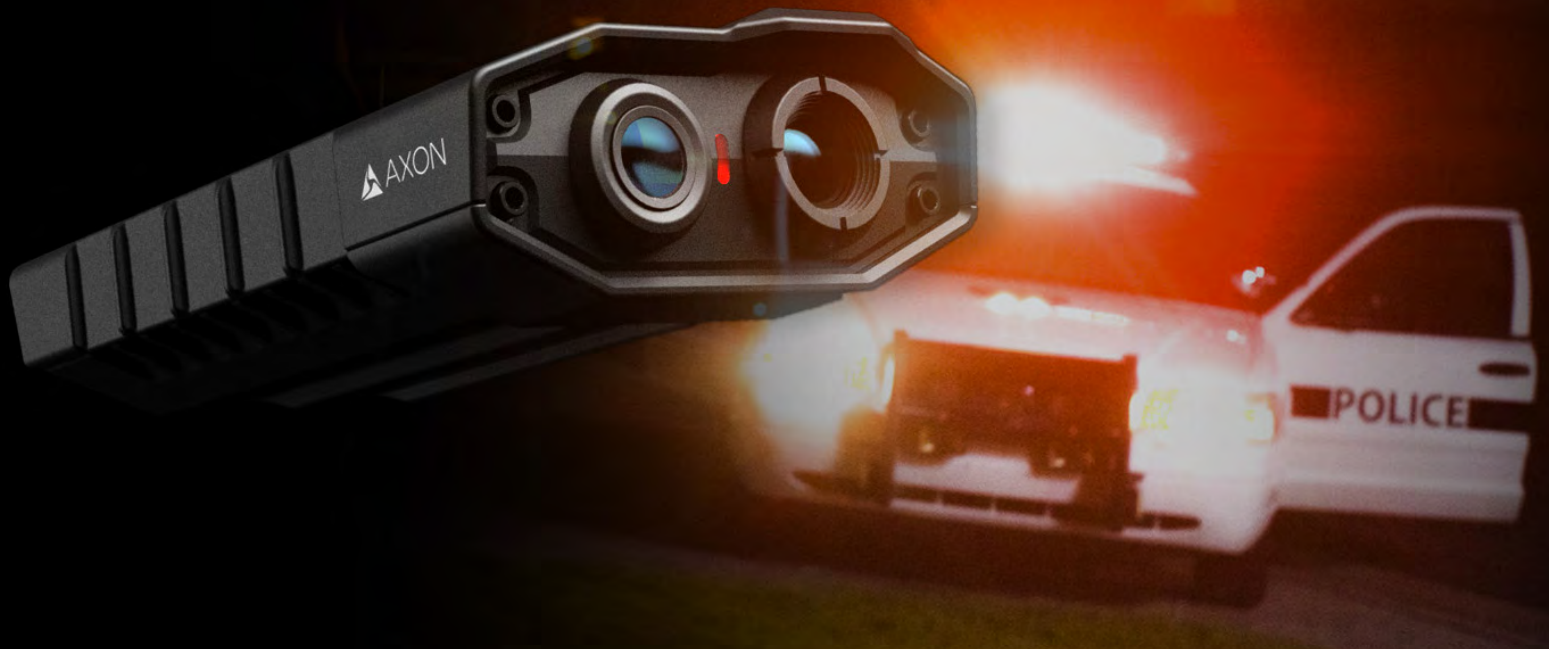
Upon completion of installation and configuration, AXON will systematically test all installed and configured in-car hardware and software to ensure that ALL functions of the hardware and software are fully operational and that any deficiencies are corrected unless otherwise agreed upon by the AGENCY, installation, configuration, test and the correct of any deficiencies will be completed in each vehicle accepted for installation.

Prior to installing the Axon Fleet camera systems, it is both the responsibility of the AGENCY and the AXON Installer to test the vehicle's existing systems' operation to identify, document any existing component or vehicle systems' failures. Prior to any vehicle up-fitting the AXON Installer will introduce the system's components, basic functions, integrations and systems overview along with reference to AXON approved, AGENCY manuals, guides, portals and videos. It is both the responsibility of the AGENCY and the AXON Installer to agree on placement of each components, the antenna(s), integration recording trigger sources and customer preferred power, ground and ignition sources prior to permanent or temporary installation of an Axon Fleet camera solution in each vehicle type. Agreed placement will be documented by the AXON Installer.

AXON welcomes up to 5 persons per system operation training session per day, and unless otherwise agreed upon by the AGENCY, the first vehicle will be used for an installation training demonstration. The second vehicle will be used for an assisted installation training demonstration. The installation training session is customary to any AXON Fleet installation service regardless of who performs the continued Axon Fleet system installations.

The customary training session does not 'certify' a non-AXON Installer, customer-employed Installer or customer 3rd party Installer, since the AXON Fleet products does not offer an Installer certification program. Any work performed by non-AXON Installer, customer-employed Installer or customer 3rd party Installer is not warrantied by AXON, and AXON is not liable for any damage to the vehicle and its existing systems and AXON Fleet hardware.

/ FLEET 3



DRIVE THE FUTURE WITH INNOVATIVE, INTEGRATED IN-CAR VIDEO

ALPR in every vehicle | Situational awareness with livestreaming | Dual-View Camera

Instead of two independent vehicle camera systems for siloed ALPR and evidence capture, why not centralize powerful capabilities into one in-car video system? Meet Fleet 3. Yes, it records the best-quality evidence from its Dual-View Camera. It also gives every vehicle ALPR capabilities, which means 8X more coverage for the same spend as traditional systems. Plus, real-time situational awareness features including alerts, live maps and video/audio streaming help leaders and dispatchers maintain visibility into what officers are facing in the field. It's a 3-in-1 that will change how you think about in-car solutions, all part of the Axon network.

FEATURES & BENEFITS

/ DUAL-VIEW CAMERA

Panoramic video camera captures clear video evidence, and 4k ALPR camera with edge AI processing covers 3 lanes of traffic

/ INTERIOR CAMERA

Capture from below occupant's knee to above their head, with color in well-lit conditions and infrared illumination for night view

/ ALPR HOTLIST ALERTS

Configurable MDC alerts help officers get notified about important plates without losing focus

/ LIVESTREAMING AND LOCATION UPDATES

Axon Respond for devices enables leaders to receive alerts, and view vehicle location and livestreams in real-time

/ FLEET HUB

Includes secure solid-state storage, wireless communications, and garage- and tunnel-friendly location system. Footage is uploaded even without the MDC over LTE or Wi-Fi

/ FLEET DASHBOARD APP

One simple interface for ALPR alerts, camera control, preview and tagging of evidence, and zoom

FEATURES & BENEFITS CONTINUED

/ WIRELESS ACTIVATION

Compatible with Axon Signal, which activates cameras based on certain events including light bar activation, speed threshold, and other configurable triggers

/ WIRELESS MIC

Capture clear audio up to 1,000 feet away from the vehicle with one or two Wireless Mics per vehicle

/ BWC PAIRING & UPLOAD

Pairs wirelessly with any Axon body camera, and router connection can upload footage wirelessly

/ VIDEO RECALL

Retains last 24 hours of video for each camera so critical footage can be retrieved remotely and no evidence is missed

/ MULTI-CAM PLAYBACK

Watch up to four in-car or BWC videos recorded at a scene using Axon Evidence, with videos automatically associated based on device proximity

SPECIFICATIONS

DUAL-VIEW CAMERA: Up to 1080p resolution, 160° field-of-view (FOV) for evidence, 16:9 or 5:2 panoramic aspect ratio, 12x digital zoom, 360° swivel mount

INTERIOR CAMERA: Up to 1080p resolution, 160° FOV, 4:3 aspect ratio (occupant knee to head), color in light conditions, IR illumination in low-light

HUB: 240GB video storage, 5 PoE ports for devices, 10 inputs for 12V triggers, Wi-Fi, BLE, GNSS

ALPR COVERAGE: Up to three traffic lanes with one camera using 4k resolution

VIDEO RECALL: 24 hours per camera

THE NEW IN-CAR EXPERIENCE

Officer J is on patrol, with ALPR active from the Dual-View Camera. He gets a stolen vehicle alert, and quickly confirms it via the Fleet Dashboard app. He flips on the lightbar, which starts the recording from the Dual-View Camera and his BWC.

The suspect begins speeding away, and Officer J does too. His supervisor receives an alert in Axon Respond and pulls up the livestream, with views from the front camera and BWC. The suspect parks and flees, but Officer J tracks him down and makes the arrest, with the supervisor having awareness the entire time. The Interior Camera begins recording once the rear door is opened. Later, Officer J reviews the video, and the footage is automatically uploaded to Axon Evidence from the Fleet 3 Hub. In Axon Evidence, authorized users view a synced playback of all video, including a tagged moment when the suspect tossed a baggie of drugs on the side of the road. Charges filed, case closed.

SECURITY: Firmware updates and all evidence encrypted on Hub

FLEET DASHBOARD APP: Windows 10 or Windows 7 required; Android and iOS forthcoming

CAMERA AND HUB OPERATING TEMPERATURE: -40°C to +85°C

WIRELESS MIC OPERATING TEMPERATURE: -40°C to +70°C

HUB INGRESS RATING: IP52 when mounted in console

CAMERA INGRESS RATING: IP54

WIRELESS MIC INGRESS RATING: IP67



Overview

Project Name
iRecord Interview Room System

Total Requested
\$35,426.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Critical

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
plauria@mt-pleasant.org

Applicant Email
Paul Lauria

Organization
Mt. Pleasant Police and Fire Department

Address
804 E. High St
Mount Pleasant , 48858

Phone Number
9893304378

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Safety/Security

Project Description

This would replace the recording equipment in the Mt. Pleasant Police Department's Interview Rooms to the cloud-based version of the iRecord System.

IRecord sets the standards of quality, ease of use, and most importantly service. The newest version of the iRecord system is “cloud” based and has no additional “back-end” hardware that needs to be maintained. In progress and stored interviews will be able to be reviewed at any computer throughout our building by a person with the proper credentials. This updated system also includes high definition cameras and improved microphones.

Our current recording system was purchased in 2013 to comply with Michigan's Public Act 479. At that time, we selected the “iRecord” system. This high quality, easy to use system has worked flawlessly throughout the years. Set up similar to a desktop computer with

special software, cameras, and microphones an officer only has to flip a switch in any of the interview rooms to start a recording. Duplicating the recording for court proceedings and/or investigative purposes is easy and efficient. Over the years we have received many acknowledgments about the quality and capabilities of our system from the prosecutor’s office, court judges, and even defense attorneys.

As with any computer hardware and software time becomes its enemy. Recently we have had issues with the computer hardware. Our current system was built to run on Windows 7 Operating System. Microsoft discontinued all support on Windows 7 in January 2020. The duplicating drives on this system have also started to fail. iRecord has also issued an end-of-life notice (end of 2022) for our version of their software.

Benefit Description

Our iRecord System has been made available to all police agencies in Isabella County since 2013 and that will not change. In addition, the Mt. Pleasant Police Department houses the office for the Mid-Michigan Investigative Narcotics Team (MINT). This team is consists of officers from the Michigan State Police, Mt. Pleasant Police, Saginaw Chippewa Tribal Police and the Central Michigan University Police Departments. Having this system available to officers and detectives to record victim, witness, and suspect interviews is invaluable. The evidentiary value of exactly what was said cannot be measured for all parties involved. During this critical time when law enforcement credibility is under scrutiny and the public's demand of transparency has never been greater, recordings are fundamental to help address these issues.

Funding Requirements

Annual software maintenance will be funded through the annual Mt. Pleasant Police Department Budget.

Project Timeline

This project will be implemented as soon as funding becomes available.

Budget Items

Name	Cost	Quantity	Total	Category
iRecord Software and Camera	\$35,426.00	1	\$35,426.00	Safety/Security
AmountRequested	\$35,426.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$35,426.00

Amount Matched

\$0.00

Total Amount

\$35,426.00

Uploaded Files

Name
WSliRecordQuoteMtPleasantPDUpgrade5yearssupport_2023-03-06_1.pdf

There are no comments to display.





WORD SYSTEMS, LLC
LEADERS IN VOICE, VIDEO & DATA CAPTURE SOLUTIONS

iRecord

iRecord Digital Video/Audio Recording System for Interviews

Quote Date: 1/18/2023

Prepared For: Mt. Pleasant Police Department

Prepared By: Jim Hansen

QTY	DESCRIPTION	PART #	UNIT PRICE	EXTENDED
iRecord Universe IP Recording System - Configured IR-Universe Systems				
	iRecord Universe Software includes: Redaction, Multi-Department security, Chain of Evidence Audit Report, Export to DVD+USB, Remote Control On/Off, Universe Desktop, Local Evidence Vault, 10x iRecord Thick Client Licenses, Remote Live Viewing, RTSP Live Monitoring (Additional hardware required), File import, Picture-in-picture One Year Hardware and Software Warranty			
1	iRecord Universe IP Turnkey Recording System (3 Room)	IR-Universe (3)	\$15,945	\$15,945.00
iRecord Dry Contact Switches (On/Off Switches)				
3	Single Gang Switch Plate w/ Push-Button - Stainless Steel	SM-SGSPL7-SS	\$95.00	\$285.00
1	Optical Breakout Card - Dry Contact <i>One breakout box supports four switches</i>	SM-WBC1	\$295.00	\$295.00
1	Relay Output with Digital Input Ethernet Module <i>One relay supports four switches</i>	ADAM6060	\$395.00	\$395.00
System Accessories				
6	Axis F41 Main Unit (Requires AX-F8001)	AX-F41	\$645.00	\$3,870.00
1	Axis F1015 Verifocal Sensor Unit for F41 (3-6mm, 12m Cable)	AX-F1015	\$445.00	\$445.00
1	Recessed In-Wall Cameras Mounts for Axis F1015 (White. Clear) <i>One required with every AX-F1015</i>	FL-1GM-KIT-W-CLR	\$125.00	\$125.00
5	Axis F1025 Pinhole Sensor Unit for F41 (3.7mm, 12m cable)	AX-F1025	\$405.00	\$2,025.00
3	PIR Enclosure (For Axis F1025)	AX-F1025-PIRENCL	\$35.00	\$105.00
2	Thermostat Enclosure (For Axis F1025)	AX-F1025-THENCL	\$35.00	\$70.00
3	AKG Professional Weather Resistant Wall-Mount Boundary Mic	CN-PZM11LLWR	\$285.00	\$855.00
1	Keyboard and Mouse - Wireless Bluetooth	KBDMOU-BT	\$139.00	\$139.00
1	Uninterruptible Power Supply 1000VA - For Single Workstation	UPS1000	\$235.00	\$235.00
1	Viewsonic 22" LCD Monitor	MON22	\$235.00	\$235.00
1	Computer Speakers	COMPSPKRS	\$45.00	\$45.00
1	10 Port Managed Network Switch 62w - 8x PoE + 2x Combo Gigabit SFP (8 devices max / 6 cameras max)	CI-SG350-10P	\$649.00	\$649.00
			SUB-TOTAL	\$25,718.00
Discounts				
3	iRecord Vi Professional to Universe Upgrade Discount - Per Room <i>Upgrade discount expires 12/31/2022</i>	DISCOUNT	-\$1,500.00	(\$4,500.00)
Installation and Training Services				
1	On Site Installation, Includes DSG and Training	Inst-On-Sie	\$4,950.00	\$4,950.00
Digital Share/Collaboration				
1	iRecord Digital Share	IR-CL01-0025 Express		\$0.00
1	Evertel 5 User	EVR		\$0.00
Service Agreements				
REMOTE COVERAGE				
1	FOUR YEAR Pre-Paid Extended Warranty Option- Total of FIVE Years Coverage	TSAR	\$9,258.00	\$9,258.00
			SYSTEM TOTAL	\$35,426.00
Terms and Conditions				

QTY	DESCRIPTION	PART #	UNIT PRICE	EXTENDED
A	<p>ADDITIONAL AGREEMENTS: Please see the separate documents iRecord Scope of Work (to be reviewed at pre-installation meeting), Warranty Agreement, and Technical Services Agreement if applicable.</p> <p>TAXES: This quote does not include State and Local taxes. Customer to provide tax exempt certificate or taxes will be added to the invoice.</p> <p>IR-CLOUD SUBSCRIPTION PAYMENT TERMS: Subject to anything in the Services Agreement to the contrary, Customer shall pay to Word Systems all amounts due hereunder in U.S. Dollars, and in full within thirty (30) days following Customer's receipt of Word Systems' invoice for cloud services. With respect to any amount due to Word Systems, which is not paid within thirty (30) days following the date of Customer's receipt of Customer's invoice, Word Systems may, in addition to any other rights it may have hereunder, apply interest at the rate of one and one-half percent (1½%) per month, or such lesser amount required by law, assessed from the due date through the date of payment. In addition to the rights Word Systems has under this Agreement, if any amounts, which are not the subject of a good faith dispute, remain unpaid for ten (10) days after the invoice date due, Word Systems may, at its option, suspend access to, and cease providing the SaaS Solution until such time as Customer's account is made current.</p> <p>USAGE: Word Systems monitors Customer's usage of the licensed SaaS Solution on a quarterly basis. If Customer's usage of the licensed SaaS Solution during any quarter exceeds such SaaS Solution's product usage limit, Word Systems reserves the right to (a) automatically upgrade Customer's licensed SaaS Solution product for the next renewal Subscription Term in accordance with Customer's actual usage, (b) invoice Customer on a quarterly basis for the excess usage, which shall be the difference between the prorated fees for the SaaS Solution product matching Customer's usage for the quarter and the prorated fees for the licensed SaaS Solution product and/or (c) suspend access to, or cease providing the SaaS Solution until such time as Customer's licensed SaaS Solution product is adjusted for Customer's actual usage.</p>			
B	<p><u>EQUIPMENT/HARDWARE TERMS AND CONDITIONS</u> - Notwithstanding anything herein to the contrary, the following terms and conditions shall apply to all purchases of [Hardware].</p> <p>DELIVERY: Please allow estimated 60-90 days from date of written purchase order (or date of first payment when applicable) for delivery.</p> <p>RETURNS: Custom equipment orders may not be returned. Stock merchandise and accessories may be returned if in the original packaging provided a restocking fee of not less than twenty-five percent (25%) or such greater restocking fee as determined by Word Systems' supplier is paid by customer.</p> <p>PAYMENT: Payment terms; 50% with order, 50% upon system installation. Special Payment Term requests need to submitted in writing.</p>			
C	<p>LIMITATION OF LIABILITY: IN NO EVENT SHALL EITHER PARTY BE LIABLE TO ANYONE FOR ANY INDIRECT, PUNITIVE, SPECIAL, EXEMPLARY, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING LOSS OF DATA, REVENUE, PROFITS, USE OR OTHER ECONOMIC ADVANTAGE) ARISING OUT OF, OR IN ANY WAY CONNECTED WITH THE SERVICES AGREEMENT, INCLUDING BUT NOT LIMITED TO THE USE OR INABILITY TO USE THE SAAS SOLUTION, OR FOR ANY CONTENT OBTAINED FROM OR THROUGH THE SAAS SOLUTION, ANY INTERRUPTION, INACCURACY, ERROR OR OMISSION, REGARDLESS OF CAUSE IN THE CONTENT, EVEN IF THE PARTY FROM WHICH DAMAGES ARE BEING SOUGHT HAS BEEN PREVIOUSLY ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL WORD SYSTEMS' AGGREGATE LIABILITY ARISING FROM OR RELATING TO THE SERVICES AGREEMENT EXCEED THE AMOUNTS ACTUALLY PAID BY AND/OR DUE FROM CUSTOMER IN THE TWELVE (12) MONTH PERIOD IMMEDIATELY PRECEDING THE EVENT GIVING RISE TO SUCH LIABILITY.</p>			
D	<p>The Services Agreement, together with this price list and all of its attachments, license terms and conditions from the software manufacturer which are hereby incorporated by reference, constitutes the entire agreement with respect to its subject matter. No inconsistent or additional terms submitted by Customer in any purchase order or similar document will be binding on Word Systems.</p> <p>QUOTATION IS VALID FOR 90 DAYS.</p> <p>Please mail purchase orders to Word Systems, 9045 River Road, Suite 125, Indianapolis, IN 46240, FAX-to 317-544-2192 or email to your salesperson.</p>			

Overview

Project Name
Mid-Michigan Investigative Narcotics Team

Total Requested
\$62,400.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Critical

Reoccurring Need?
This Request is Reoccurring

Applicant Information

Applicant Name
frayrec@michigan.gov

Applicant Email
D/Lt. Chris Frayre

Organization
Mid-Michigan Investigative Narcotics Team

Address
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Mt. Pleasant , 48858

Phone Number
989-779-9697

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Baynet

Project Description

MINT is a continuing project which emphasizes the cooperation with its state, local and federal partners. MINT is a multi-jurisdictional narcotics task force servicing Clare & Isabella Counties. The priority is to identify, disrupt, and dismantle criminal and drug groups in our communities. The goal of MINT is to focus on heroin abuse, over prescribing opiates, and crystal methamphetamine.

The Mid-Michigan Investigative Narcotics Team (MINT) is a multijurisdictional task force (MJTF) that services Clare and Isabella Counties. MINT is managed by the Michigan State Police and has been in operation since April of 2019. The current task force partnering agencies that make up MINT are the Michigan State Police, Mt. Pleasant Police Department, Central Michigan University Police Department, Saginaw Chippewa Tribal Police Department, and Bureau of Indian Affairs, Clare, and Isabella Counties. MINT’s service area is 1200 square miles, the two counties have a combined population of approximately 95,878. The 2022 health rankings by county for the State of Michigan show that Isabella County is ranked 48 and Clare County is ranked at 79 (www.countyhealthrankings.org). Central Michigan

University and Mid-Michigan Community College are in MINT's service area, with a combined enrollment of 24,000 students a year. MINT's largest service areas are the 6.5 townships in Isabella County that make up a portion of the Federal Reservation Lands of the Saginaw Chippewa Indian Tribe and is home to the Soaring Eagle Casino, which draws in an average 517,000 patrons per year. There are 3,485 tribal members, who receive benefits and bi-weekly per cap payments based on Native American status. The steady flow of money entices drug traffickers from source cities to prey heavily on tribal members. There are several major highways that pass-through MINT's service area: US-127, US-10, M-20, M-46, M-61, M-66, and M-115, which feed the flow of drugs into MINT's area. MINT is the only drug task force covering this area and is instrumental in working with other agencies on joint law enforcement investigations, taking an active role in educating the community on current drug trends and dangers associated with narcotics traffickers.

Problem 1: Heroin abuse and opioid overdoses. The opioid epidemic is causing a significant health crisis nationwide and is a significant problem in MINT's service area resulting in increased overdoses. Drug traffickers continue to target MINT's service area. Beginning January 1, 2020, through December 2020 MINT seized 24.6 grams of heroin, and 26.9 grams of fentanyl. Since January 2021 to date, MINT has seized 44.7 grams of heroin, 151.8 grams of fentanyl, and 273.3 pills of fentanyl. Opioid seizures are up 109% for the 2022 grant cycle through 06-30-2022, compared to the 2021 grant cycle. The increase is a direct result of focusing on higher level suppliers and dismantling operations in the service area. Michigan saw an increase of overdose cases from 2,743 in 2020 to 2933 in 2021 an increase of 7%. During the 2022 grant cycle, MINT investigated and assisted local departments with multiple overdose investigations. MINT is the primary source for performing cellular telephone downloads for local agencies investigating overdoses. Clare County recorded 37 overdoses and 9 deaths in 2021. The 2020 Annual Drug Report published by Sparrow Hospital Department of Forensic Pathology servicing Isabella County, shows an increase in drug related overdoses in Isabella County increased by 33%, with 13 deaths. The victims ages ranged between 23 and 45. Seven of these were fentanyl related overdoses, three were a combination of fentanyl and other controlled substances, two were a combination of fentanyl and heroin. Preliminary data from Isabella County Central Dispatch indicates that from January 1st, 2021, to July 14, 2022, they have logged 151 overdoses with 66 uses of Narcan. MINT detectives are issued naloxone and are trained in using it. MINT conforms to an overdose response protocol set forth by the service area, by responding to the scene during active overdose investigations. In doing so, detectives gain real time information through suspect and victim interviews that points to a common drug source. During the 2021 and 2022 grant cycle MINT was able to prosecute several defendants stemming from overdose investigations. The Saginaw Chippewa Indian Tribe continues to see an increase in controlled substances on the reservation, and a large increase in opioid related overdose cases and overdose related deaths in 2021 and 2022. The Saginaw Chippewa Tribal Police has 16 sworn road officers. In 2020, they investigated 94 total drug cases, 64 of which were methamphetamine related, 18 were heroin related, 20 overdoses, and 3 resulting in deaths. In 2021, they investigated 261 total drug cases, 98 of which were methamphetamine related, 32 were heroin related, 24 resulted in overdoses, and 4 resulting in death. In 2022, they have investigated 109 total drug cases, 37 of which were methamphetamine related, 10 were heroin related, with 10 overdoses. MINT has developed a strategic relationship with Tribal Police by adding an additional detective to the MINT team in 2021 to specifically investigate and combat this increased methamphetamine and opioid related overdose problem. By providing an additional trained investigator to respond and assist in these investigations, MINT has provided valuable resources to local agencies who do not have the staffing or resources available to combat this increasing problem.

Problem 2: Rise of crystal methamphetamine. The influx of crystal methamphetamine in southwest Michigan, lower cost, and lesser penalties are believed to be contributing factors. During the 2021 grant cycle, MINT seized 800.6 grams of crystal methamphetamine. During the 2022 grant cycle, MINT has seized 1,797.9 grams of crystal methamphetamine, a 45% increase from the previous period. Local traffickers of crystal methamphetamine are traveling to Kalamazoo, Lansing, and Muskegon to purchase larger amounts for significantly less. During the 2022 grant cycle MINT initiated 158 investigations, with 66 of those cases involving crystal methamphetamine. Looking at MINT's arrest counts, purchases, and seizures over the current and past year's grant cycle, it is evident methamphetamine continues to be readily available and a threat to our communities. According to the DEA, Methamphetamine is available throughout the United States, with the highest availability in the West and Midwest regions of the country. The work done by MINT has led to significant seizures of crystal methamphetamine by bordering MJTF's with many ties to organized crime and drug trafficking organizations operating in the Lansing, Metro-Detroit, and Muskegon areas. Many of these DTO's have out of state nexus to source cities in Arizona and California. Individuals from MINT's service area continue to purchase crystal methamphetamine from source cities in Michigan.

Problem 3: Lack of Law enforcement resources and education/training. 7 law enforcement agencies operate in MINT's service area, the Isabella County Sheriff's Dept., Mt. Pleasant Police Dept., Central Michigan University Police Dept., Saginaw Chippewa Tribal Police Dept., Shepherd Police Dept., Clare County Sheriff's Dept., and the Clare City Police. The highest concentration of officers conducting patrols are in the City of Mt. Pleasant and Chippewa Township. The Michigan State Police Mt. Pleasant Post does provide coverage, but the service provided by Troopers is divided between four counties: Clare, Isabella, Mecosta, and Osceola Counties. The rural areas of Isabella and Clare County do not have sufficient road patrol coverage. Between both sheriff departments, there are 28 assigned to road patrols in the two counties and 4 detectives conducting investigations. Clare City Police Department consists of 6 officers and Shepherd Police Department has 2 officers. Agencies covering MINT's service area do not have the money, manpower, or resources to dedicate to narcotic investigations or the crimes that are a direct result of narcotic abuse and trafficking. Because most law enforcement authority, unlike criminal activity, is limited to specific jurisdictions, it is possible for large criminal enterprises to commit crimes beyond the scope of authority of a particular law enforcement agency. Addressing this problem requires cooperation among local, state, and federal law enforcement agencies; prosecutors; courts; corrections; service agencies; and the community. According to the State of Michigan multi-jurisdictional task forces (MJTFs) combine the talents and resources of a variety of organizations to eliminate jurisdictional/procedural

barriers and enhance problem-solving initiatives. MINT acts as a force multiplier for local agencies by being able to send a team of trained detectives with undercover vehicles to respond quickly to any rapidly evolving situation. MINT is able to assist the local agencies in this matter and is the only dedicated narcotics team servicing the area. During the 2022 grant cycle, MINT has assisted local agencies 40 times. This accounts for 25% of all investigations to date (158). During the grant year 2021, MINT conducted 105 investigations, with 68 felony, 18 misdemeanor and 25 fugitive arrests. During the 2022 grant cycle, MINT has already conducted 158 investigations, with 90 felony, 14 misdemeanor and 23 fugitive arrests. MINT is a relatively large rural service area with one medium sized city. Methamphetamine, Heroin, and Prescription Opiates continue to pose the greatest threat to the population of MINT's area. MINT has demonstrated an ability to address these threats through its investigations. Statistics have shown a direct connection between drugs and other crimes such as burglary, robbery, homicide, retail fraud and larceny. MINT's area shares this problem with the rest of the state. The MINT team regularly assists local agencies address these other crimes in their service area. The MINT team regularly assists local agencies by providing a highly trained and equipped group of detectives who were able to respond quickly and assist with high profile crimes such as homicide, kidnapping, human trafficking, larceny, and robbery.

Benefit Description

The Mid-Michigan Investigative Narcotics Team is a multi-jurisdictional narcotics task force that serves Clare and Isabella counties. The task force is comprised of local, federal, state, and tribal law enforcement agencies. MINT follows the command structure of the Michigan State Police, receiving support and leadership from commanders of the partnering agencies. MINT's partners strongly support the mission of the unit and benefit from the multi-jurisdictional approach to narcotic investigations. MINT is the only narcotics team that services both counties and is a vital tool in dismantling narcotic trafficking. The service area of MINT is unique in the fact that 6.5 townships in Isabella County fall within the exterior borders of the Federal Indian Reservation. MINT gains its enforcement ability on reservations lands through "cross- designation" from the Bureau of Indian Affairs "Special Law Enforcement Commissions Deputation Agreement". MINT is well versed in the enforcement of federal, state, and tribal laws and works with the respective prosecutor's offices to ensure individuals are appropriately prosecuted. Narcotics are coming into MINT's service area from source cities such as Flint, Grand Rapids, Kalamazoo, Lansing, Muskegon, and Saginaw. MINT works with MJTF's in those areas for further investigative support. MINT assists local law enforcement with investigations that require specific training, surveillance support, execution of high-risk search warrants, and general investigations that require plain cloths support. In past years MINT has successfully assisted in crimes such as homicide, felonious assault, robbery, and breaking and entering. MINT will focus on the following objectives for 2023. The objectives are identified in order of importance.

1. Reduce economic costs, threats to community safety and reduce deaths and serious injury caused by heroin and prescription opiates by disrupting the availability of heroin, and prescription opiates in the MINT service area.
2. Reduce economic costs, threats to community safety and reduce deaths and serious injury caused by methamphetamine abuse through preventive measures in the deterrence of abuse, sales and/or manufacturing of methamphetamine.
3. Reduce economic costs, threats to community safety by identifying and disrupting drug and other types of criminal activity through the cooperation with local law enforcement.
4. Reduce economic costs, threats to community safety by identifying and disrupting drug and other types of criminal activity through the cooperation with State and Federal law enforcement.
5. Provide training and resources to local municipalities regarding controlled substances with specific training regarding heroin and crystal methamphetamine.
6. Provide detectives and equipment to local agencies to assist with local crime issues, such as breaking and entering, homicide, larceny, arson, kidnapping, and fugitive apprehension.
7. Provide drug presentations for local schools, health workers, service workers, probation parole officers, and child protective service workers.

The Mid Michigan Investigative Narcotics Team uses the appropriate avenue of investigation in the pursuit of its' goals including but not limited to:

1. Undercover controlled buys
2. Intelligence from confidential informants
3. Silent observer tips
4. Search warrants
5. Knock and talk investigations
6. Asset seizure and forfeiture in accordance with federal, state, and tribal laws
7. Utilize social media to initiate or further investigations
8. Utilize NPLEX to identify methamphetamine targets
9. Collaboration with other state MJTF's to identify drug sources
10. Maintain strong partnerships with DHHS and other treatment/prevention organizations
11. Utilization of opioid and ephedrine drug analysts
12. Utilize and monitor Overdose Detection Mapping Application Program
13. Follow district wide overdose response protocol
14. Work with federal partners to monitor the "Dark Web" and identify drug sources

15.Utilization of a National guard drug analyst

Through these initiatives and investigative techniques, the citizens in MINT’s service area will benefit from treatment costs associated with narcotics addiction, overall medical costs to the community for first responder response, medicine being administered, the hospital costs and costs associated with support agencies such as DHHS. These investigations will have an impact on the related violent crimes in the area as well as property crimes. Many persons addicted to narcotics are committing offenses such as larcenies, breaking and entering, criminal sexual conduct, human trafficking, and fraud to obtain funds for narcotics purchases. Through these efforts, MINT will have an emotional and financial impact by working towards reducing the amount of overdose deaths.

The Mid Michigan Investigative Narcotics Team also partners with schools and community groups to educate citizens and solicit feedback on problem areas and drug trends. Examples include:

- 1. Partner with school administrators, Mt. Pleasant YSU, TEAM and MSP CST's to educate school age children on drug abuse.
- 2. Conduct educational presentations for community groups on trends such as opiate abuse and crystal methamphetamine trends.
- 3. Attend monthly Opiate Task Force meetings in both counties, as well as partner with drug free coalitions in the service area.
- 4. Provide training and resources to local municipal and township governments reference heroin and other drugs.

The MDHHS currently estimates that the population of Clare County is 31,065 and Isabella County is 64,813. This population is spread over 1200 square miles. The region is mostly rural with the City of Mt. Pleasant being the most populated. Central Michigan University, Mid-Michigan Community College, and the Soaring Eagle Casino and Resort are in MINT’s service area. Approximately 517,000 people visit the casino each year. Several major highways pass through MINT’s area, which are all used as a conveyance for drug trafficking. MINT is the only narcotics task force in the service area and serves a vital role to local law enforcement. In grant year 2023, MINT will increase its focus on drug overdoses and criminal prosecution of overdose investigations. MINT has developed a strategic relationship with Tribal Police by continuing to specifically investigate and combat the increased methamphetamine and opioid related overdose problem. MINT provides a team of trained investigators to respond and assist in these investigations, MINT will provide valuable resources to local agencies who do not have the staffing or resources available to combat this increasing problem. In fiscal year 2023 MINT is expected to be comprised of 7 partnering agencies who are committed to the mission of the team and have provided support to the unit since 2019. The MINT unit commander is a Detective Lieutenant from the Michigan State Police that is responsible for the day-to- day operations of MINT and the supervision of the unit. The MINT unit commander coordinates intelligence sharing, serves as a liaison with area law enforcement, attends monthly professional meetings, performs the administration of the BYRNE grant, manages the budgetary controls of the unit, and assists with street operations, reviewing reports, maintaining equipment, managing confidential sources, and working with the team on coordinating investigations. The MINT unit has an administrative assistant that is responsible for managing multiple bank accounts, maintaining forfeiture files, LEIN Tac and Laso, entering statistical information into tracking systems, preparing reimbursements, paying bills, drafting quarterly reports, attending meetings, and recording minutes, managing grant reporting, and managing general office concerns. The support of the administrative assistant allows MINT detectives to spend more time conducting investigations. Below is a breakdown of the current commitments to MINT.

- (1) D/Lieutenant from the Michigan State Police
- (1) D/Tpr/Specialist from the Michigan State Police
- (1) Detective from the Mt. Pleasant Police Department
- (1) Detective from the Central Michigan University Police Department
- (1) Detective from the Saginaw Chippewa Tribal Police Department
- (1) Special Agent from the Bureau of Indian Affairs
- (1) Opioid Analyst from the Michigan National Guard
- (1) Administrative Assistant

The following is a list of team activity generated for FY21/22 (10/01/2021 – 9/30/2022).

- 158 investigations opened
- 129 individuals arrested for a total of 251 arrest counts
- 57 search warrants executed (soft entry/hard entry/cell phone download/GPS Trackers/Vehicles/Phone (PING)
- 12 exigent circumstances
- 20 consent searches
- 107.9 grams of fentanyl
- 334.3 fentanyl pills seized
- 83.7 grams of heroin seized
- 1,797.9 grams of crystal methamphetamine seized

Funding Requirements

MINT is requesting \$62,400.00 from the 2% grant to cover costs associated with conducting investigations for FY22/23. Federal guidelines dictate that BYRNE grant dollars can’t be used for investigations, such as buy money and informant fees, which are a critical component to conducting narcotic investigations.

The MINT budget for FY22/23 is \$155,285.00. In October of 2022 MINT received funding through the BYRNE Justice Assistance Grant (BYRNE JAG), in the amount of \$92,885.00. for FY22/23. BYRNE JAG grant dollars will be used for administrative support, communications, and vehicles. This leaves a shortfall of \$62,400.00.

Description of Reoccurring Need

Reoccurring costs to operate MINT for FY22/23 include, but are not limited to:

- 7 Detectives/Analyst \$805,600.00
- Fuel and vehicle leases \$43,250.00
- Forfeiture Manager/Administrative support \$43,305.00
- Communications \$6,330.00
- Supplies \$8,000.00
- Investigations \$47,400.00
- Training \$7,000.00

The anticipated annual reoccurring cost to operate MINT is \$960,885.00. MINT is requesting the support from the Saginaw Chippewa Tribe in the amount of \$62,400.00 to cover investigative, training and supply costs. The generous gift of 2% money will assist MINT in conducting crucial investigations in the service area.

Project Timeline

MINT will begin using grant dollars immediately with the intent to have the full distribution used in FY23.

Budget Items

Name	Cost	Quantity	Total	Category
Supplies	\$8,000.00	1	\$8,000.00	Baynet
Investigative Funds	\$47,400.00	1	\$47,400.00	Baynet
Training	\$1,000.00	7	\$7,000.00	Baynet
AmountRequested	\$62,400.00			

Matching Funds

Name	Cost	Quantity	Total
7 Detectives/Analyst	\$805,600.00	1	\$805,600.00
Fuel and Vehicle Leases	\$43,250.00	1	\$43,250.00
Forfeiture Manager/Administrative Support	\$43,305.00	1	\$43,305.00
Communication	\$6,330.00	1	\$6,330.00
AmountMatched	\$898,485.00		

Budget Summary

Amount Requested

\$62,400.00

Amount Matched

\$898,485.00

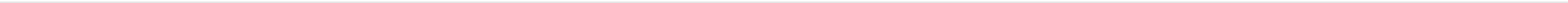
Total Amount

\$960,885.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.



Overview

Project Name
Youth Services Police Officer Tahoe

Total Requested
\$58,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Critical

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
plauria@mt-pleasant.org

Applicant Email
Paul Lauria

Organization
Mt. Pleasant Police and Fire Department

Address
804 E. High St
Mount Pleasant , 48858

Phone Number
9893304378

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Project Partners

Partnered With
Mt. Pleasant Public Schools

Authorizers
jverleger@mtpleasant.edzone.net

Status
Review

Address
720 N Kinney Ave
Mount Pleasant, Michigan 48858

Phone
(989) 775-2300

Fax

Categories

- Education
- Safety/Security

Project Description

The purchase of a 2023 Chevrolet Tahoe to provide the additional Youth Services Officer with an emergency response vehicle. This vehicle would be fitted with emergency response equipment to include lights, sirens and mobile radio. This up-fit would allow for emergency response when required. Additionally the vehicle will be used to transport juveniles during investigations, emergency needs and during the Youth Police Academy. The larger size of the SUV would provide extra occupancy and storage equipment.

Benefit Description

The benefits of providing an emergency vehicle to the school resource officer would be expedited response to schools in emergency situations, securing equipment and transport of juveniles. Mt. Pleasant High School has an enrollment of more than 1400 students with nearly 150 being Native American. Safety of every student is paramount in today's world. The vehicle would also be used to shuttle Youth Police Academy cadets during the academy, the academy is open to all 7th and 8th grade children living in Isabella County, free of cost. Further this vehicle may be used in the transport of students during the school day that do not have the means of getting to their destination. Finally, the SUV would be used to secure equipment needed for various incidents and investigations.

Funding Requirements

None

Project Timeline

Would order and purchase the vehicle immediately if fortunate enough to receive 2% funding.

Budget Items

Name	Cost	Quantity	Total	Category
Police Tahoe	\$58,000.00	1	\$58,000.00	Safety/Security
AmountRequested	\$58,000.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$58,000.00

Amount Matched

\$0.00

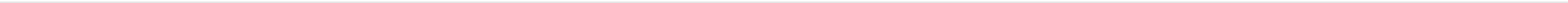
Total Amount

\$58,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.



Overview

Project Name
1303 N Franklin Former Landfill Remediation

Total Requested
\$50,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Low

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Environmental

Project Description

This request is for funding to continue work at 1303 N Franklin Street (a City-owned property). We would continue work according to the advisement of our environmental consultant and the Michigan Department of Environment Great Lakes and Energy (EGLE). We are expecting to be able to begin remediation activities once the site assessment has been completed. This will be the remediation project.

Community landfills were common throughout the state and country for several decades for the disposal of local trash. This former landfill was operated until 1975 for placement of general refuse from residents and business owners throughout the community. In the early 1980s, the landfill was closed and capped with clean fill material, as appropriate with the regulatory requirements applicable at the time. The City is working in conjunction with the State and Federal regulatory agencies to evaluate the environmental condition of the former landfill.

Previous funding awarded during the 2020-2022 two-percent processes have allowed for further characterization of the site and refinement of the Conceptual Site Model (CSM). Deep wells were installed last spring and have been sampled. The environmental consultant compiled data and put together a report of work done. It has been determined that another deep well outside the landfill area should be installed and water tested to verify that the clay layer found during prior work is sufficient to eliminate the drinking water pathway. This work will be completed in the second quarter of 2023.

Benefit Description

The retired municipal landfill at 1303 N Franklin was utilized by Mt. Pleasant and the surrounding area from some time in the 1950s to 1975 when it was closed. Shortly after closure, the area had a clay cap placed over it to limit the rainwater entering the landfill area.

Funding for this project will allow for future work at the site in accordance with the advisement of our environmental consultant and the Michigan Department of Environment Great Lakes and Energy (EGLE).

Funding Requirements

Future funding requirements are unknown and will depend on the type of remediation that may be required.

Project Timeline

Fall of 2023 to Summer of 2024

Budget Items

Name	Cost	Quantity	Total	Category
Remediation	\$50,000.00	1	\$50,000.00	Environmental
AmountRequested	\$50,000.00			

Matching Funds

Name	Cost	Quantity	Total
Remediation	\$50,000.00	1	\$50,000.00
AmountMatched	\$50,000.00		

Budget Summary

Amount Requested

\$50,000.00

Amount Matched

\$50,000.00

Total Amount

\$100,000.00

Uploaded Files

Name
Latest Report Regarding Site

There are no comments to display.

Overview

Project Name
Automatic Water Meters

Total Requested
\$59,940.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure

Project Description

Under our water meter replacement program that began in 1998, water meters that meet usage (total gallons registered) and age (years of service) criteria are replaced to ensure accuracy and proper operation. The Water Distribution Team is currently replacing existing water meters as they fail or are due for replacement with an Advanced Metering Infrastructure (AMI) enabled meters. Due to new technology that promises more cost-effectiveness and better industry standardization, the AMI system is an obvious choice. Installation of these AMI meters will help ensure correct and timely billing and will reduce time spent reading meters. Locations that greatly benefit from these meters include buildings with security systems designed to limit access to the public and large complexes with spread-out buildings. AMI allows utility billing to directly access the data from meters through wireless networks.

Funding of this project will allow the city to double the number of installations that we are able to do with current funding, allowing for efficiency benefits to be realized sooner for the water system.

Benefit Description

Savings will come from the attrition of the part time meter reader positions, elimination of touch pads, fewer final reads, along with real time data.

Funding Requirements

Meter replacement is a continuous and required process and will require perpetual funding that will be incorporated into users rates.

Project Timeline

2023-2024

Budget Items

Name	Cost	Quantity	Total	Category
Automatic Water Meters (5/8 Residential Meters)	\$370.00	162	\$59,940.00	Infrastructure
AmountRequested	\$59,940.00			

Matching Funds

Name	Cost	Quantity	Total
Normal Meter Replacements (Various Sizes)	\$60,000.00	1	\$60,000.00
AmountMatched	\$60,000.00		

Budget Summary

Amount Requested

\$59,940.00

Amount Matched

\$60,000.00

Total Amount

\$119,940.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
Airport Operational Funding

Total Requested
\$80,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Critical

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
bbrickner@mt-pleasant.org

Applicant Email
Bill Brickner

Organization
Mt. Pleasant Airport

Address
5453 E. Airport Rd
Mt. Pleasant , 48858

Phone Number
9897722965

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Economic development
- Infrastructure
- Safety/Security
- Transportation

Project Description

This funding request is to provide funds to support basic operations of the airport. Appropriate staffing levels to cover operational needs have, in the past, been covered in part by using airport fund balance. Staffing at the airport ensures that appropriate staff is available 7 days per week to service aircraft.

In order to provide the necessary funds for basic operation of the Mt. Pleasant Municipal Airport, the City has had to contribute \$81,600 per year from the general fund. The Saginaw Chippewa Tribe has provided funding for the airport operations on a regular basis. Without ongoing funding from the Tribal 2% allocations, the services at the airport could not be maintained.

Benefit Description

The airport is an economic driver for economic development and business growth. The Mt. Pleasant Airport is a major gateway to the Tribal community's casino and resort operations. Many entertainers appreciate the convenience and service they experience at the airport when coming to preform at the resort. The ability to provide essential service to the Tribal community's visitors and business associates may be affected without adequate funding. A recent study by MDOT indicated that the economic benefit to the surrounding area is \$8 million per year.

Funding Requirements

A new partnership to share oversight and management with partners including Isabella County, Union Township, MMDC, and the Saginaw Chippewa Indian Tribe has recently been instituted. This partnership provides \$17,000 annually towards the operation of the airport.

Project Timeline

Ongoing operation, airport operates 7 days per week year around.

Budget Items

Name	Cost	Quantity	Total	Category
Airport Operational Funding	\$80,000.00	1	\$80,000.00	Transportation
AmountRequested	\$80,000.00			

Matching Funds

Name	Cost	Quantity	Total
Airport Fuel Revenue	\$150,660.00	1	\$150,660.00
Airport Rentals	\$50,060.00	1	\$50,060.00
Call outs	\$14,600.00	1	\$14,600.00
Contribution from general fund	\$81,600.00	1	\$81,600.00
AmountMatched	\$296,920.00		

Budget Summary

Amount Requested

\$80,000.00

Amount Matched

\$296,920.00

Total Amount

\$376,920.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
City Hall Retaining Wall - Broadway Street Sidewalk Replacement

Total Requested
\$122,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure

Project Description

The retaining walls along the front side of the Borden Building/City Hall are part of the original construction and were deemed as having historic significance during the redevelopment by the State Historic Preservation Office. As a result, the walls were repaired and underpinned during the project rather than being replaced. The walls, which have been patched and repainted on a semiannual basis, continue to show signs of severe cracking.

In late 2021, staff contracted with SME, who provided the recommendation/engineering work for the original restoration, to evaluate movement evident along the west side of the site along the public sidewalk. Staff received SME’s finding in early 2021 that outlined a number of options to improve the condition and overall appearance of the walls with updated drainage and coatings, along with a cost estimate to replace the wall/s in their entirety. The retaining walls that run along the west side of the site with a height of 2-4 feet above grade are leaning and were determined that they need to be replaced along with the sidewalk that is failing.

This project includes the reconstruction of the sidewalk and retaining wall as outline by SME in their report. The funding request is to cover the replacement of the public sidewalk along Broadway Street.

Benefit Description

The retaining walls are more than 100 years old and have been showing signs of cracking, spalling and areas where the wall is leaning causing the sidewalk to fail. This project will replace the wall and sidewalk and protect the street and streetscape from potential damage.

Funding Requirements

None

Project Timeline

Summer of 2023

Budget Items

Name	Cost	Quantity	Total	Category
Sidewalk Replacement	\$122,000.00	1	\$122,000.00	Infrastructure
AmountRequested	\$122,000.00			

Matching Funds

Name	Cost	Quantity	Total
Retaining Wall Replacement	\$250,000.00	1	\$250,000.00
AmountMatched	\$250,000.00		

Budget Summary

Amount Requested

\$122,000.00

Amount Matched

\$250,000.00

Total Amount

\$372,000.00

Uploaded Files

Name
FinalGeotechReport_2023-03-06.pdf
RetainingWallImage_2023-03-06.jpg

There are no comments to display.



856 E. Eighth Street, Suite 1
Traverse City, MI 49686-2784

T (231) 941-5200

www.sme-usa.com

February 2, 2023

Mr. Christopher Dombrowski, PE
Williams & Works, Inc.
549 Ottawa Avenue NW, Suite 310
Grand Rapids, Michigan 49503

Via E-mail: Dombrowski@williams-works.com

RE: Geotechnical Evaluation – Revised
Mt. Pleasant City Hall Retaining Walls
320 West Broadway Street
Mt. Pleasant, Michigan 48858
SME Project No. 091171.00

Dear Mr. Dombrowski:

We have completed the geotechnical evaluation for the proposed retaining wall replacement at Mt. Pleasant City Hall. This report presents the results of our observations and analyses, our geotechnical recommendations, and a discussion on general construction considerations based on the information disclosed by the borings.

This evaluation was conducted in general accordance with the scope of services outlined in SME Proposal No. P03459.22 dated December 21, 2022. We revised our report dated December 22, 2022 based on our conversations with Mr. Christopher Dombrowski, PE with Williams & Works. Williams & Works (W&W) authorized our services.

As input into this evaluation W&W provided SME with the following documents.

- A preliminary drawing titled “Existing Conditions” (Sheet No. 2) for the “City Hall Retaining Wall Replacement” project, prepared by W&W.
- A document titled “Request for Proposals” prepared by the City of Mt. Pleasant.
- Historic plan sheets nos. A2.1, A2.4, A2.5, A2.6, A6.1, A8.2, and S2.1 prepared by J.E. Johnson Design Group, LLC.
- A document titled “Discloser Statement” dated November 2006 and prepared by AKT Peerless Environmental Services.

SME previously prepared a Geotechnical Evaluation Report dated January 7, 2022 (SME Project No. 088030.00).

SITE CONDITIONS AND PROJECT DESCRIPTION

The site is located at Mt. Pleasant City Hall at 320 West Broadway Street. The site location is depicted on the Location Map on the attached Boring Location Diagram (Figure No. 1).

Existing retaining walls extend in a generally east-west direction across the site. The retaining walls provide grade separation between the City Hall parking area and the sidewalk and West Broadway Street. The project includes replacement of the existing walls that extend from the west end of the site to the existing City Hall building (i.e. the retaining walls east of the building are not included in this project). The subject retaining walls are about 1-foot high at the west end and about 12 feet high on east end at the existing building. The eastern retaining wall was underpinned and refurbished in 2008 when the building was remodeled and converted into City Hall.

The new cast-in-place concrete retaining walls will be located approximately along the same alignment and will be about the same height as the existing retaining walls. We understand the new retaining wall footings will have a design bearing elevation of 749 feet. Temporary and new permanent footings could be required to support the existing upper landing at the building entrance.

EVALUATION PROCEDURES

FIELD EXPLORATION

SME completed two borings (B101 and B102) on October 21, 2022. One boring extended 15 feet beneath the existing ground surface and one boring extended 25 feet beneath the existing ground surface. The approximate locations of the borings are shown on Figure No. 1. Figure No. 1 also depicts the approximate locations of previous borings B1 and B2.

The planned number, locations, and depths of the borings were determined by SME. SME located the borings in the field by referencing existing site features and estimated the existing ground surface elevations at the borings based on the referenced Existing Conditions drawing.

The borings were performed with a truck-mounted rotary drill rig and were advanced to the sampling depths using continuous-flight, hollow-stem augers. The borings included soil sampling based upon the Split-barrel Sampling Procedure. Recovered split-barrel samples were sealed in glass jars by the driller.

Groundwater observations were recorded during and upon completion of drilling at each boring. After completion of drilling and collection of groundwater observations, the boreholes were backfilled with auger cuttings and capped with similar material in paved areas.

Soil samples recovered from the field exploration were returned to the SME laboratory for further observation and testing.

LABORATORY TESTING

The laboratory testing program consisted of performing visual soil classification on recovered samples in general accordance with ASTM D2488. SME also performed moisture content and hand penetrometer tests on portions of recovered cohesive soil samples and moisture content tests on portions of organic soil samples. The attached Laboratory Testing Procedures provides descriptions of these laboratory tests. Based on the laboratory testing, we assigned a Unified Soil Classification System (USCS) group symbol to each of the various soil strata encountered.

Upon completion of the laboratory testing, boring logs were prepared that include information on materials encountered, penetration resistances, pertinent field observations made during the drilling operations, existing ground surface elevations as estimated by SME, and the results of the laboratory tests. The boring logs are attached to this report. Explanations of symbols and terms used on the boring logs are provided on the attached Boring Log Terminology sheet.

Soil samples retained over a long time, even sealed in jars, are subject to moisture loss and are no longer representative of the conditions initially encountered in the field. Therefore, we normally retain soil samples in our laboratory for 60 days and then dispose of them, unless instructed otherwise.

SUBSURFACE CONDITIONS

SOIL CONDITIONS

The soil conditions encountered at borings B101, B102, and B1 (western retaining wall borings) generally consist of surficial topsoil or pavement overlaying existing sand fill over organic soils, e.g., peat. The peat was underlain by natural sands overlying natural clay (at boring B102), that extended to the explored depths of the borings; however, natural soils were not encountered at boring B1 which terminated in organic soils.

The existing sand fill extended about 3.5 to 9 feet beneath the existing ground surface. The existing sand fill was encountered in a very loose to medium dense condition. Portions of the existing sand fill contained construction debris. Near boring B1 performed for our previous evaluation, potential buried pavement was encountered about 6 inches beneath the existing ground surface. Refer to the referenced Geotechnical Evaluation Report for additional information.

In borings B101 and B202, the peat extended to about 6 to 11 feet below the existing ground surface. In boring B1, organic soil, mostly silt, extended to the termination depth, 9.5 feet, of the boring; therefore, the organic soils may extend deeper in this area. The peat had moisture contents of about 122 to 141 percent.

The natural sands were encountered in a very loose to dense condition, and the natural clays encountered at boring B102 exhibited very stiff consistency.

The soil profile described above and included on the attached draft boring logs is a generalized description of the conditions encountered. The stratification depths described above and shown on the boring logs indicate a zone of transition from one soil type to another and do not show exact depths of change from one soil type to another. Soil conditions may vary between or away from the boring locations from those conditions noted on the logs. Please refer to the boring logs for the specific soil conditions at the boring locations.

Thickness measurements of surficial materials reported on the boring logs should be considered approximate since mixing of these materials with the underlying subgrade can occur while advancing the augers, and it is difficult to measure the thickness of surface materials in small-diameter boreholes. Shallow hand augers or test pits in topsoil areas and pavement cores in pavement areas should be performed if more accurate topsoil thicknesses are required.

GROUNDWATER CONDITIONS

In borings B101 and B102 groundwater was encountered about 7 to 8.5 feet beneath the existing ground surface during drilling, corresponding to approximate elevations 747 to 751.5 feet. Groundwater was not encountered above the borehole cave-in depth upon completion of drilling in borings B101 and B102. Groundwater was not encountered in boring B1 which terminated at a depth of 9.5 feet.

In organic soils and clays a long time may be required for the groundwater level in the borehole to reach an equilibrium position. Therefore, the use of groundwater observation wells (piezometers) is necessary to accurately determine the hydrostatic groundwater level within cohesive and organic soils.

Hydrostatic groundwater levels, perched groundwater conditions, and the rate of infiltration into excavations should be expected to fluctuate throughout the year, based on variations in precipitation, evaporation, run-off, and other factors. The groundwater observations recorded on the boring logs represent conditions at the time the readings were taken. The groundwater depths/elevations at the time of construction may vary from those conditions noted on the logs.

ANALYSIS AND RECOMMENDATIONS

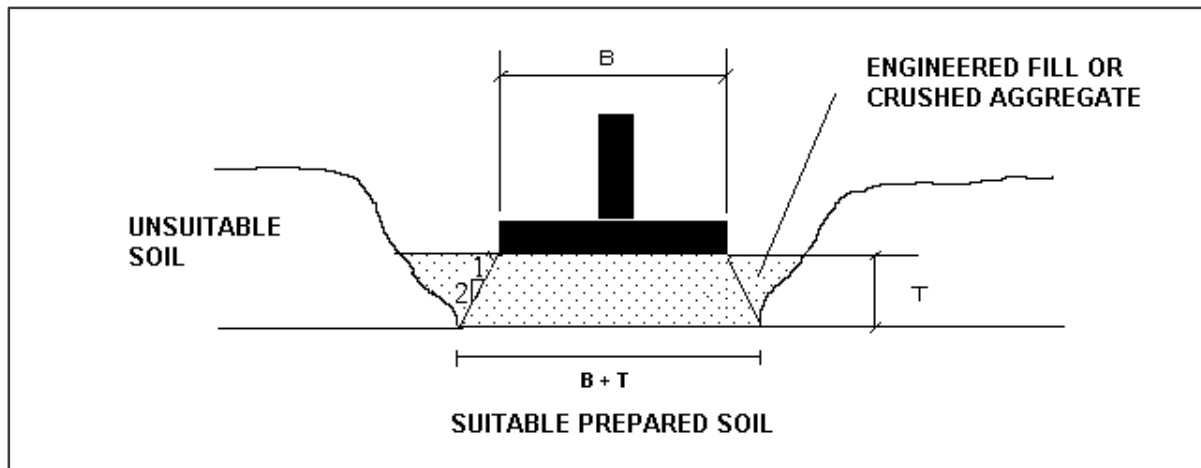
RETAINING WALLS AND DRAINAGE

WALL FOUNDATIONS

The new cast-in-place concrete retaining walls will vary from about 2 to 12 feet high. The existing fill and organic soils are not suitable for foundation support and must be removed beneath shallow foundations. Shallow foundations should bear on engineered fill overlying suitable natural soils or on suitable natural soils. Suitable bearing soils were encountered below the existing fill and organic soils between 6 and 11 feet beneath the existing ground surface, corresponding to approximate elevations 748 to 749 feet; however, the organic soils may extend deeper in the area of B1 that terminated in organic soils. Retaining wall foundations should be designed with a maximum net allowable soil bearing pressure of 3,000 pounds per square-foot (psf) bearing on suitable soils described above, except that retaining wall foundations with a non-uniform pressure distribution at their base may be designed using a maximum edge pressure of 3,500 psf, provided the average pressure below the foundation does not exceed 3,000 psf. The design maximum net allowable soil bearing pressure is based on a global safety factor of three or more (for general shear failure).

SME should evaluate foundation subgrades during construction to verify that the design soil bearing pressure is achieved. New footings must not bear on or above existing fill and organic soils. Where existing fills and organic soils are encountered, they must be undercut to expose suitable natural sands. Since groundwater was encountered as high as elevation 751.5 feet at the borings, we anticipate groundwater will be encountered in the undercuts to remove the existing fills and organic soils, and the contractor should be prepared to dewater the undercuts and footing excavations, as necessary. After undercutting unsuitable soils, the design bearing elevation can be reestablished using coarse-crushed aggregate consisting of a well graded crushed natural aggregate or crushed concrete ranging from one to three inches in size with no more than seven percent by weight passing the No. 200 sieve. The aggregate should be “tamped” into the subgrade using the excavator bucket until the subgrade is stable.

The foundation undercuts should be oversized laterally and backfilled with granular engineered fill or crushed aggregate as shown on the Typical Foundation Undercutting Diagram below.



The foundation subgrade soils at this site are susceptible to disturbance, especially where groundwater is encountered. To reduce the incidence and severity of subgrade disturbance, the contractor should prepare to place the coarse-crushed aggregate as soon the undercutting is performed.

The retaining wall foundations must be situated a minimum of 42 inches below final site grades for protection against frost action during normal winters.

We estimate total settlement for retaining wall foundations using the recommended maximum net allowable bearing pressures and bearing on suitable soils as described above and as verified in the field at the time of construction by SME should be 1 inch or less. Differential settlements are estimated to be about one-half the total settlement. The settlement estimates provided are based on the available boring information, recommended bearing pressure, our experience with similar structures and soil conditions, and field verification of suitable bearing soils by SME.

WALL BACKFILL

We recommend the retaining walls be backfilled with MDOT Class II granular material extending a minimum of two feet horizontally from the backside of the walls. Retaining wall backfill should be compacted to a minimum of 95 percent of the maximum dry density as determined by the Modified Proctor test. Care should be exercised during compaction of the wall backfill to avoid overstressing the walls. The retaining wall recommendations below are based on properly placed and compacted backfill that meets the gradational requirements of MDOT Class II granular material. For purposes of design, we recommend using a unit weight of 115 pounds per cubic-foot (pcf) and a friction angle of 30 degrees for the compacted backfill.

LATERAL EARTH PRESSURES AND SLIDING RESISTANCE

For the purpose of designing the retaining walls, we recommend a design groundwater elevation of 751.5 feet. For a drained granular backfill situated above the design groundwater level, and a level surface behind the walls, an active equivalent fluid pressure of 40 pcf should be used for the design of flexible walls. For below-grade walls below the design groundwater level, we recommended a combined lateral earth and hydrostatic (water) of 80 pcf for the active pressure condition. Additional lateral pressures due to surcharge loading, such as stored materials, sloping ground, or traffic loads, should be added to the above lateral earth pressures for design. We recommend using a horizontal coefficient of 0.33 for an active condition, to calculate loads on walls due to surcharges. Use of this value requires a granular wall backfill. Surcharge loads should be modeled as a uniform pressure distribution applied to the entire wall height. An outward movement away from the backfill equal to approximately 0.001 times the height of the wall is generally required to achieve the active earth pressure condition for granular backfill.

We recommend using an allowable passive equivalent fluid pressure to model the passive resistance of the soil wedge adjacent to retaining walls to resist sliding or overturning. To account for the full passive resistance, a horizontal surface is required for the soil mass extending at least 10 feet from the face of the wall foundation, or three times the height of the surface generating the passive pressure, whichever is greater. An allowable equivalent passive fluid pressure of 180 pcf can be considered for properly compacted MDOT Class II engineered fill, or natural soils, above the design groundwater level based on the ultimate equivalent passive fluid pressure divided by a factor of safety of about two. The allowable equivalent passive fluid pressure should be reduced to 100 pcf below the design groundwater level. The upper 12 inches of soil in areas not protected by pavement or other erosion resistant material should not be included in the design for passive resistance to lateral loads.

To evaluate the sliding of the wall, the sliding resistance at the base, and the passive (resisting) and active (driving) earth forces must be computed. The sliding resistance may be determined by using a recommended ultimate sliding coefficient of 0.35 for concrete footings cast directly on coarse-crushed aggregate or natural sands. Typically, a factor of safety of 1.5 is applied for sliding, and a factor of safety of 2.0 is often applied to overturning.

DRAINAGE

The earth pressures presented above are for a drained backfill. To reduce the potential for the build-up of hydrostatic pressure behind the retaining walls during construction and post construction we recommend drains be installed along the base of the retained soil side of the retaining walls. The drains should consist of a minimum six-inch-diameter perforated plastic drainpipe, wrapped with a filter fabric and surrounded by six inches of a filter material, such as pea gravel (MDOT 34G or MDOT 34R), wrapped with a filter fabric. The drains should be discharged to a gravity drainage outlet, if feasible. We recommend the design include provisions for access to the drains for cleaning and maintenance. Typically, annual checking and maintenance of the drains should be planned for.

EXTERNAL STABILITY

Based on the soil conditions, the retaining wall heights, and provided the recommendations above are followed, and considering final grades will approximately match existing grades, we do not expect external stability to control the wall design. Therefore, we do not judge a formal global stability analysis to be required.

DESIGN AND CONSTRUCTION CONSIDERATIONS

As indicated above, groundwater should be anticipated in undercuts to remove the existing fills and organic soils. Provided undercuts are performed in relatively small areas at a time, a coarse-crushed aggregate in placed as organic soils are removed, we anticipate conventional sump pit and pumping techniques will generally be suitable to control groundwater seepage in the foundation undercuts. Excavations that extend below the groundwater level in sands will require high capacity dewatering techniques.

Temporary footings to support the existing landing area can bear in the existing sand fill provided a maximum net allowable soil bearing pressure of 1,500 psf is used for design. New permanent footings should bear below the existing sand fill and organic soils using a maximum net allowable soil bearing pressure of 3,000 psf.

The contractor must provide a safely sloped excavation or an adequately constructed and braced shoring system in accordance with federal, state, and local safety regulations for individuals working in an excavation that may expose them to the danger of moving ground. If material is stored or heavy equipment is operated near an excavation, use appropriate shoring to resist the extra pressure due to the superimposed loads.

We understand the existing sidewalk will be removed during construction of the new retaining wall. Based on the proposed wall alignment and the required undercut depth to remove organic soils, we anticipate temporary earth retention may be required to protect the adjacent roadway along a portion of the retaining wall alignment. Excavations cannot extend below existing foundations without first properly underpinning or shoring the existing foundations. Based on the site conditions and anticipated excavation depths, we anticipate temporary earth retention (if required) will need to retain about 3 feet adjacent to the existing roadway. Therefore, we do not anticipate the temporary earth retention will need to consist of heavy steel sheeting or other similar system. Rather, we anticipate steel sheets that are pushed into the subgrade or precast blocks may be provide sufficient temporary earth retention. However, underpinning, shoring and earth retention systems should be designed by a qualified professional engineer, and installed by a contractor experienced with construction of these systems.

The contractor must protect adjacent existing buildings, utilities and roadways during demolition of the existing retaining walls and during construction of the proposed retaining walls. During the excavating and compacting operations, excessive vibrations should not cause settlement of the existing buildings, utilities and roadways, and the contractor should avoid undermining existing building, utilities, and roadways.

Handling, transportation, and disposal of excavated materials and groundwater should be performed in accordance with applicable regulations. Refer to the referenced Disclosure Document for information regarding environmentally impacted soils at this site.

We appreciate the opportunity to be of service. If you have questions regarding this report, or if you require additional information, please contact us.

Very truly yours,

SME

PREPARED BY:



Paul Anderson
Feb 2 2023 2:11 PM

Paul E. Anderson, PE
Senior Project Engineer

REVIEWED BY:



Andrew T. Bolton
Feb 2 2023 10:40 AM

Andrew T. Bolton, PE
Senior Consultant

Attachments: Boring Location Diagram (Figure No. 1)
Boring Log Terminology
Boring Logs (B101 and B102)
Previous Boring Logs (B1 and B2) – SME Project No. 088030.00
Important Information About This Geotechnical-Engineering Report
General Comments
Laboratory Testing Procedures

\\sme-inc\pz\WIP\091171.00\CAD\Design Files\BLD\Rev0\091171.00-BLD.dwg

PLOT DATE: Dec 21, 2022 - 12:00pm - julie.blake



LOCATION MAP
NOT TO SCALE



LEGEND

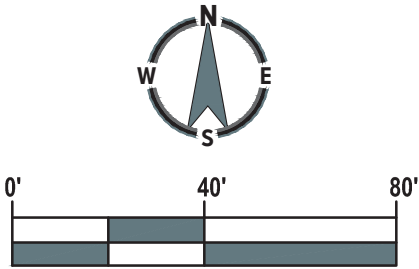


APPROXIMATE LOCATION OF 2021 BORING
SME PROJECT NO. 088030.00



APPROXIMATE CURRENT BORING LOCATION

NOTE:
BASE DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO
WITH IMAGE DATE 9/21/2015.



GRAPHIC SCALE: 1" = 40'



Project
**MT. PLEASANT
CITY HALL RETAINING
WALLS**

Project Location
**MT. PLEASANT,
MICHIGAN**

Sheet Name
**BORING LOCATION
DIAGRAM**

No.	Revision Date

Date
12-20-2022

CADD
JAB

Designer
PEA

















Scale
AS NOTED













Project
091171.00

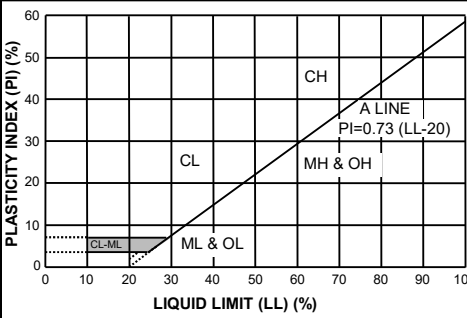
Figure No.
1

DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 11" X 17"
AND WILL SCALE INCORRECTLY IF PRINTED ON ANY
OTHER SIZE MEDIA
NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR
CONSENT OF SME
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BORING LOG TERMINOLOGY

UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART		
COARSE-GRAINED SOIL (more than 50% of material is larger than No. 200 sieve size.)		
Clean Gravel (Less than 5% fines)		
GRAVEL More than 50% of coarse fraction larger than No. 4 sieve size		GW Well-graded gravel; gravel-sand mixtures, little or no fines
		GP Poorly-graded gravel; gravel-sand mixtures, little or no fines
	Gravel with fines (More than 12% fines)	
		GM Silty gravel; gravel-sand-silt mixtures
		GC Clayey gravel; gravel-sand-clay mixtures
Clean Sand (Less than 5% fines)		
SAND 50% or more of coarse fraction smaller than No. 4 sieve size		SW Well-graded sand; sand-gravel mixtures, little or no fines
		SP Poorly-graded sand; sand-gravel mixtures, little or no fines
	Sand with fines (More than 12% fines)	
		SM Silty sand; sand-silt-gravel mixtures
		SC Clayey sand; sand-clay-gravel mixtures
FINE-GRAINED SOIL (50% or more of material is smaller than No. 200 sieve size)		
SILT AND CLAY Liquid limit less than 50%		ML Inorganic silt; sandy silt or gravelly silt with slight plasticity
		CL Inorganic clay of low plasticity; lean clay, sandy clay, gravelly clay
		OL Organic silt and organic clay of low plasticity
		MH Inorganic silt of high plasticity, elastic silt
SILT AND CLAY Liquid limit 50% or greater		CH Inorganic clay of high plasticity, fat clay
		OH Organic silt and organic clay of high plasticity
		PT Peat and other highly organic soil
		PT Peat and other highly organic soil

OTHER MATERIAL SYMBOLS		
		
Topsoil	Void	Sandstone
		
Asphalt Concrete	Glacial Till	Siltstone
		
Aggregate Base	Coal	Limestone
		
Portland Cement Concrete	Shale	Fill

LABORATORY CLASSIFICATION CRITERIA	
GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}^2}{D_{10} \times D_{60}}$ between 1 and 3
GP	Not meeting all gradation requirements for GW
GM	Atterberg limits below "A" line or PI less than 4
GC	Atterberg limits above "A" line with PI greater than 7
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_c = \frac{D_{30}^2}{D_{10} \times D_{60}}$ between 1 and 3
SP	Not meeting all gradation requirements for SW
SM	Atterberg limits below "A" line or PI less than 4
SC	Atterberg limits above "A" line with PI greater than 7
<p>Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:</p> <p>Less than 5 percent.....GW, GP, SW, SP More than 12 percent.....GM, GC, SM, SC 5 to 12 percent.....Cases requiring dual symbols</p> <ul style="list-style-type: none"> • SP-SM or SW-SM (SAND with Silt or SAND with Silt and Gravel) • SP-SC or SW-SC (SAND with Clay or SAND with Clay and Gravel) • GP-GM or GW-GM (GRAVEL with Silt or GRAVEL with Silt and Sand) • GP-GC or GW-GC (GRAVEL with Clay or GRAVEL with Clay and Sand) <p>If the fines are CL-ML:</p> <ul style="list-style-type: none"> • SC-SM (SILTY CLAYEY SAND or SILTY CLAYEY SAND with Gravel) • SM-SC (CLAYEY SILTY SAND or CLAYEY SILTY SAND with Gravel) • GC-GM (SILTY CLAYEY GRAVEL or SILTY CLAYEY GRAVEL with Sand) 	
PARTICLE SIZES	
Boulders	- Greater than 12 inches
Cobbles	- 3 inches to 12 inches
Gravel- Coarse	- 3/4 inches to 3 inches
Gravel- Fine	- No. 4 to 3/4 inches
Sand- Coarse	- No. 10 to No. 4
Sand- Medium	- No. 40 to No. 10
Sand- Fine	- No. 200 to No. 40
Silt and Clay	- Less than (0.074 mm)
PLASTICITY CHART	
	

VISUAL MANUAL PROCEDURE	
<p>When laboratory tests are not performed to confirm the classification of soils exhibiting borderline classifications, the two possible classifications would be separated with a slash, as follows:</p> <p>For soils where it is difficult to distinguish if it is a coarse or fine-grained soil:</p> <ul style="list-style-type: none"> • SC/CL (CLAYEY SAND to Sandy LEAN CLAY) • SM/ML (SILTY SAND to SANDY SILT) • GC/CL (CLAYEY GRAVEL to Gravelly LEAN CLAY) • GM/ML (SILTY GRAVEL to Gravelly SILT) <p>For soils where it is difficult to distinguish if it is sand or gravel, poorly or well-graded sand or gravel; silt or clay; or plastic or non-plastic silt or clay:</p> <ul style="list-style-type: none"> • SP/GP or SW/GW (SAND with Gravel to GRAVEL with Sand) • SC/GC (CLAYEY SAND with Gravel to CLAYEY GRAVEL with Sand) • SM/GM (SILTY SAND with Gravel to SILTY GRAVEL with Sand) • SW/SP (SAND or SAND with Gravel) • GP/GW (GRAVEL or GRAVEL with Sand) • SC/SM (CLAYEY to SILTY SAND) • GM/GC (SILTY to CLAYEY GRAVEL) • CL/ML (SILTY CLAY) • ML/CL (CLAYEY SILT) • CH/MH (FAT CLAY to ELASTIC SILT) • CL/CH (LEAN to FAT CLAY) • MH/ML (ELASTIC SILT to SILT) 	
DRILLING AND SAMPLING ABBREVIATIONS	
2ST	- Shelby Tube - 2" O.D.
3ST	- Shelby Tube - 3" O.D.
AS	- Auger Sample
GS	- Grab Sample
LS	- Liner Sample
NR	- No Recovery
PM	- Pressuremeter
RC	- Rock Core diamond bit. NX size, except where noted
SB	- Split Barrel Sample 1-3/8" I.D., 2" O.D., except where noted
VS	- Vane Shear
WS	- Wash Sample
OTHER ABBREVIATIONS	
WOH	- Weight of Hammer
WOR	- Weight of Rods
SP	- Soil Probe
PID	- Photo Ionization Device
FID	- Flame Ionization Device
DEPOSITIONAL FEATURES	
Parting	- as much as 1/16 inch thick
Seam	- 1/16 inch to 1/2 inch thick
Layer	- 1/2 inch to 12 inches thick
Stratum	- greater than 12 inches thick
Pocket	- deposit of limited lateral extent
Lens	- lenticular deposit
Hardpan/Till	- an unstratified, consolidated or cemented mixture of clay, silt, sand and/or gravel, the size/shape of the constituents vary widely
Lacustrine	- soil deposited by lake water
Mottled	- soil irregularly marked with spots of different colors that vary in number and size
Varved	- alternating partings or seams of silt and/or clay
Occasional	- one or less per foot of thickness
Frequent	- more than one per foot of thickness
Interbedded	- strata of soil or beds of rock lying between or alternating with other strata of a different nature
DESCRIPTION OF RELATIVE QUANTITIES	
<p>The visual-manual procedure uses the following terms to describe the relative quantities of notable foreign materials, gravel, sand or fines:</p> <p>Trace - particles are present but estimated to be less than 5%</p> <p>Few - 5 to 10%</p> <p>Little - 15 to 25%</p> <p>Some - 30 to 45%</p> <p>Mostly - 50 to 100%</p>	

CLASSIFICATION TERMINOLOGY AND CORRELATIONS			
Cohesionless Soils		Cohesive Soils	
Relative Density	N ₆₀ (N-Value) (Blows per foot)	Consistency	Undrained Shear Strength (kips/ft ²)
Very Loose	0 to 4	Very Soft	<2
Loose	5 to 10	Soft	2 - 4
Medium Dense	11 to 30	Medium	5 - 8
Dense	31 to 50	Stiff	9 - 15
Very Dense	51 to 80	Very Stiff	16 - 30
Extremely Dense	Over 81	Hard	> 30
<p>Standard Penetration 'N-Value' = Blows per foot of a 140-pound hammer falling 30 inches on a 2-inch O.D. split barrel sampler, except where noted. N60 values as reported on boring logs represent raw N-values corrected for hammer efficiency only.</p>			

12/22/22 10:20:15 AM



BORING B101

PAGE 1 OF 1

BORING DEPTH: 15 FEET

PROJECT NAME: Mt. Pleasant Retaining Walls

PROJECT NUMBER: 091171.00

CLIENT: Williams and Works LLC

PROJECT LOCATION: Mt. Pleasant, Michigan

DATE STARTED: 10/21/22

COMPLETED: 10/21/22

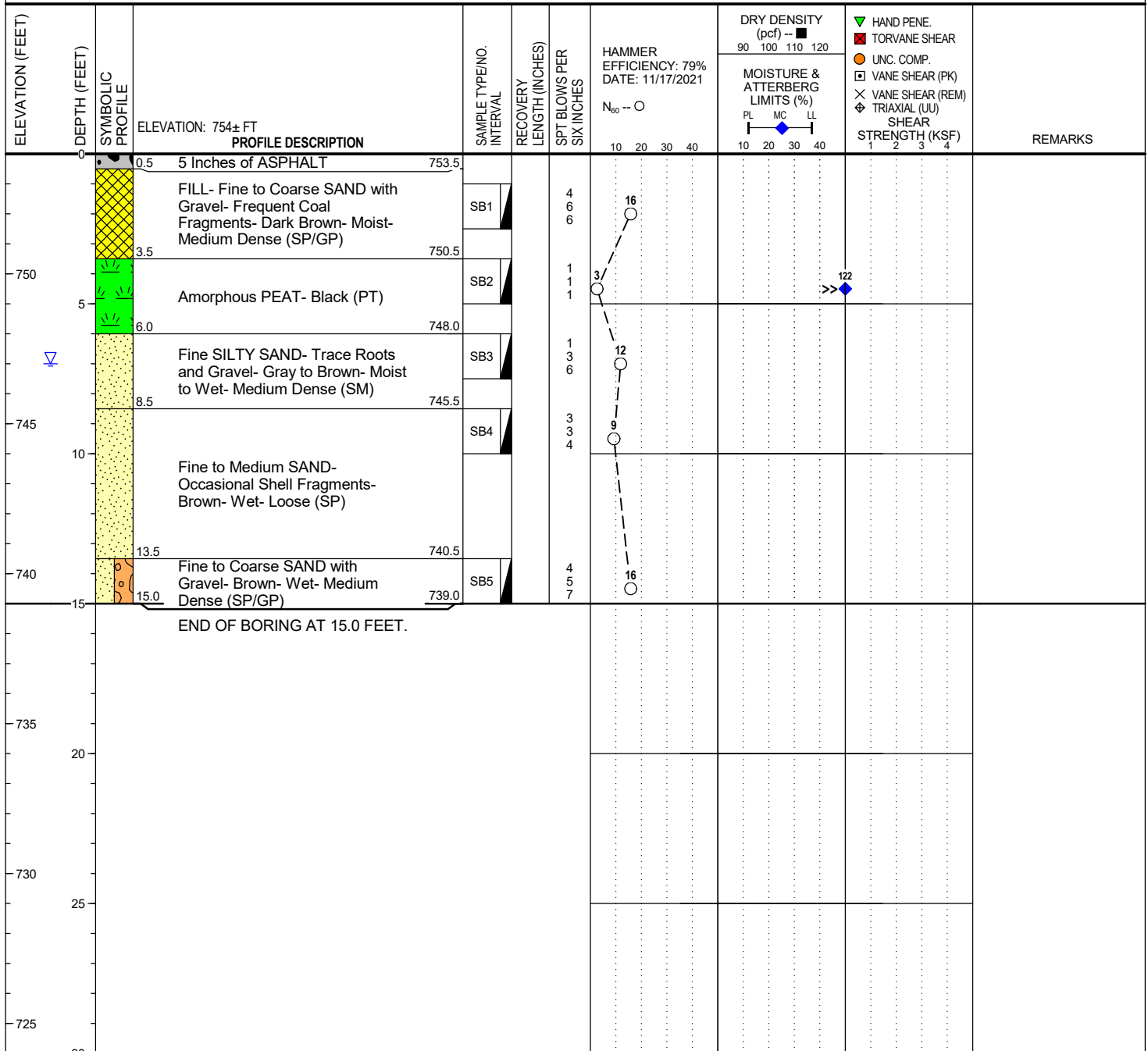
BORING METHOD: Hollow-stem Augers

DRILLER: AR (Brax Drilling)

RIG NO.: CME - Truck

LOGGED BY: MGJ

CHECKED BY: JLN



GROUNDWATER & BACKFILL INFORMATION

DEPTH (FT) ELEV (FT)
DURING BORING: 7.0 747.0
CAVE-IN OF BOREHOLE AT: 7.8 746.2
BACKFILL METHOD: Auger Cuttings

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

12/22/22 10:20:16 AM



BORING B102

PAGE 1 OF 1

BORING DEPTH: 25 FEET

PROJECT NAME: Mt. Pleasant Retaining Walls

PROJECT NUMBER: 091171.00

CLIENT: Williams and Works LLC

PROJECT LOCATION: Mt. Pleasant, Michigan

DATE STARTED: 10/21/22

COMPLETED: 10/21/22

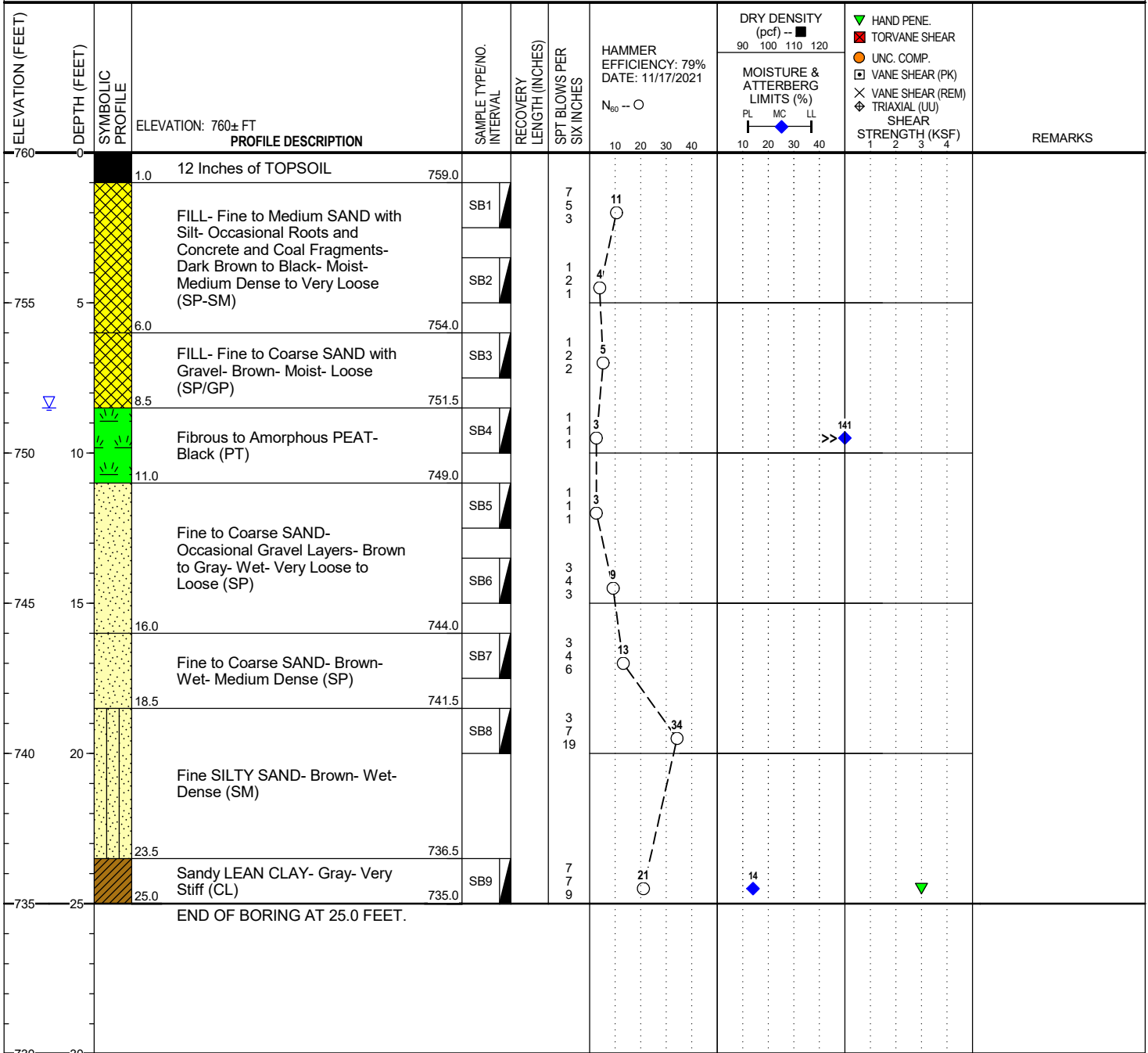
BORING METHOD: Hollow-stem Augers

DRILLER: AR (Brax Drilling)

RIG NO.: CME - Truck

LOGGED BY: MGJ

CHECKED BY: JLN



GROUNDWATER & BACKFILL INFORMATION

▼ DURING BORING: DEPTH (FT) 8.5 ELEV (FT) 751.5

CAVE-IN OF BOREHOLE AT: 12.1 747.9

BACKFILL METHOD: Auger Cuttings

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

1/7/22 3:56:15 PM



BORING B 1

PAGE 1 OF 1

BORING DEPTH: 9.5 FEET

PROJECT NAME: Mt. Pleasant City Hall Retaining Walls

PROJECT NUMBER: 088030.00

CLIENT: City of Mt. Pleasant

PROJECT LOCATION: Mount Pleasant, Michigan

DATE STARTED: 11/5/21

COMPLETED: 11/5/21

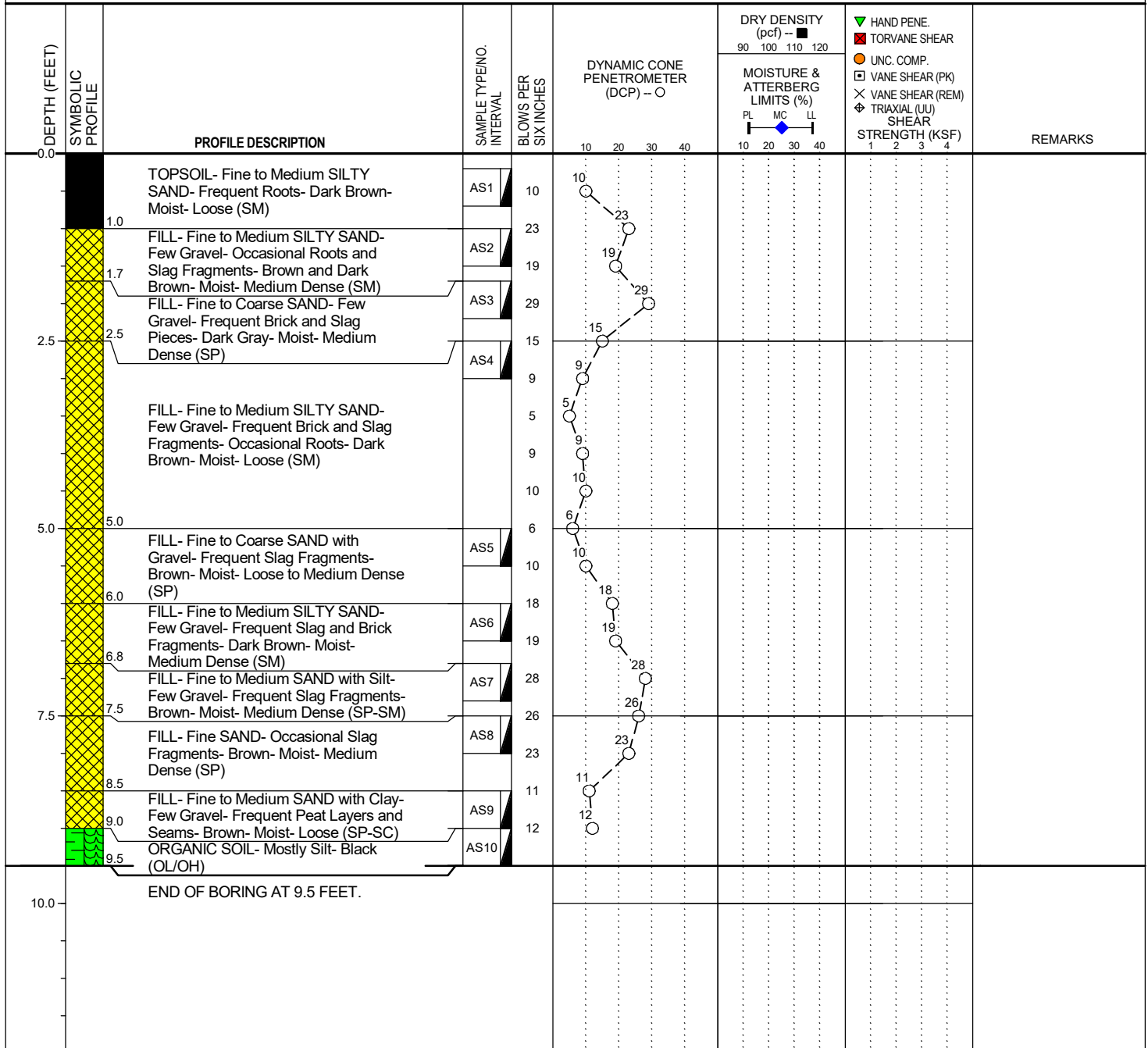
BORING METHOD: Hand Auger

FIELD REPRESENTATIVE: NBS

EQUIPMENT: Hand Auger

LOGGED BY: NBS

CHECKED BY: ATB



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Auger Cuttings

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

1/7/22 3:56:16 PM



BORING B 2

PAGE 1 OF 1

BORING DEPTH: 10 FEET

PROJECT NAME: Mt. Pleasant City Hall Retaining Walls

PROJECT NUMBER: 088030.00

CLIENT: City of Mt. Pleasant

PROJECT LOCATION: Mount Pleasant, Michigan

DATE STARTED: 11/5/21

COMPLETED: 11/5/21

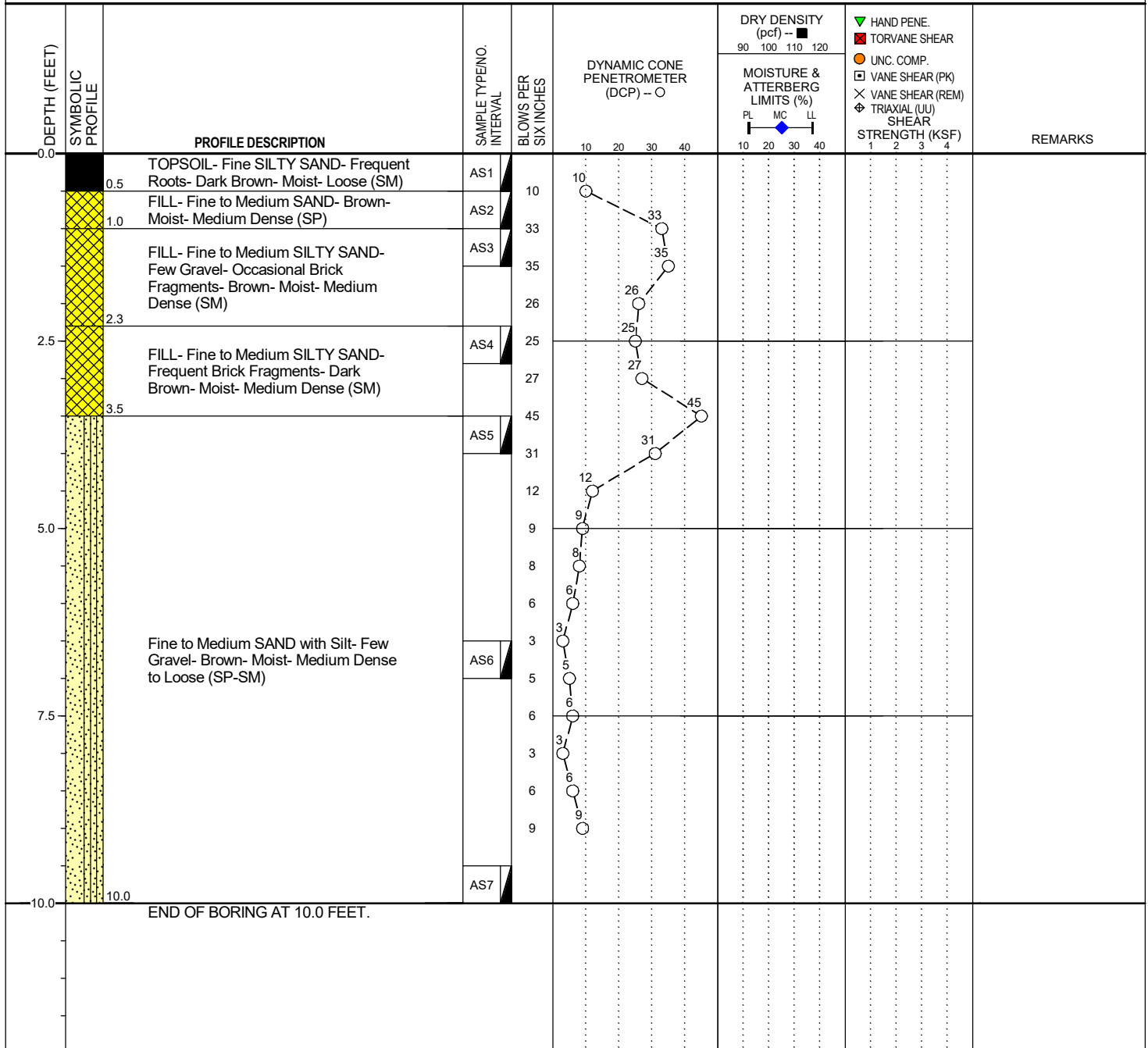
BORING METHOD: Hand Auger

FIELD REPRESENTATIVE: NBS

EQUIPMENT: Hand Auger

LOGGED BY: NBS

CHECKED BY: ATB



GROUNDWATER & BACKFILL INFORMATION

GROUNDWATER WAS NOT ENCOUNTERED

BACKFILL METHOD: Auger Cuttings

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual.
2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

Important Information about This Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way exposure to problems associated with subsurface conditions at project sites and development of them that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed herein, contact your GBA-member geotechnical engineer. Active engagement in GBA exposes geotechnical engineers to a wide array of risk-confrontation

everyone involved with a construction project.

Understand the Geotechnical-Engineering Services Provided for this Report

Geotechnical-engineering services typically include the planning, collection, interpretation, and analysis of exploratory data from widely spaced borings and/or test pits. Field data are combined with results from laboratory tests of soil and rock samples obtained from field exploration (if applicable), observations made during site reconnaissance, and historical information to form one or more models of the expected subsurface conditions beneath the site. Local geology and alterations of the site surface and subsurface by previous and proposed construction are also important considerations. Geotechnical engineers apply their engineering training, experience, and judgment to adapt the requirements of the prospective project to the subsurface model(s). Estimates are made of the subsurface conditions that will likely be exposed during construction as well as the expected performance of foundations and other structures being planned and/or affected by construction activities.

The culmination of these geotechnical-engineering services is typically a geotechnical-engineering report providing the data obtained, a discussion of the subsurface model(s), the engineering and geologic engineering assessments and analyses made, and the recommendations developed to satisfy the given requirements of the project. These reports may be titled investigations, explorations, studies, assessments, or evaluations. Regardless of the title used, the geotechnical-engineering report is an engineering interpretation of the subsurface conditions within the context of the project and does not represent a close examination, systematic inquiry, or thorough investigation of all site and subsurface conditions.

Geotechnical-Engineering Services are Performed

and Times

Geotechnical engineers structure their services to meet the specific needs, goals, and risk management preferences of their clients. A geotechnical-engineering study conducted for a given civil engineer

will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client.

Likewise, geotechnical-engineering services are performed for a specific project and purpose. For example, it is unlikely that a geotechnical-engineering study for a refrigerated warehouse will be the same as one prepared for a parking garage; and a few borings drilled during a preliminary study to evaluate site feasibility will not be adequate to develop geotechnical design recommendations for the project.

Do not rely on this report if your geotechnical engineer prepared it:

- for a different client;
- for a different project or purpose;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, the reliability of a geotechnical-engineering report can be affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If you are the least bit uncertain about the continued reliability of this report, contact your geotechnical engineer before applying the recommendations in it. A minor amount of additional testing or analysis after the passage of time – if any is required at all – could prevent major problems.*

Read this Report in Full

Costly problems have occurred because those relying on a geotechnical-engineering report did not read the report in its entirety. Do not rely on an executive summary. Do not read selective elements only. *Read and refer to the report in full.*

You Need to Inform Your Geotechnical Engineer About Change

Your geotechnical engineer considered unique, project-specific factors when developing the scope of study behind this report and developing the confirmation-dependent recommendations the report conveys. Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the elevation, configuration, location, orientation, function or weight of the proposed structure and the desired performance criteria;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project or site changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept*

responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.

Most of the “Findings” Related in This Report Are Professional Opinions

Before construction begins, geotechnical engineers explore a site’s subsurface using various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing is performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgement to form opinions about subsurface conditions throughout the site. Actual site-wide subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team through project completion to obtain informed guidance quickly, whenever needed.

This Report’s Recommendations Are

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, they are not final, because the geotechnical engineer who developed them relied heavily on judgement and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* exposed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

This Report Could Be Misinterpreted

Other design professionals’ misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a continuing member of the design team, to:

- confer with other design-team members;
- help develop specifications;
- review pertinent elements of other design professionals’ plans and specifications; and
- be available whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction-phase observations.

Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note*

conspicuously that you’ve included the material for information purposes only. To avoid misunderstanding, you may also want to note that “informational purposes” means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. This happens in part because soil and rock on project sites are typically heterogeneous and not manufactured materials with well-defined engineering properties like steel and concrete. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled “limitations,” many of these provisions indicate where geotechnical engineers’ responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a “phase-one” or “phase-two” environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually provide environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures.* If you have not obtained your own environmental information about the project site, ask your geotechnical consultant for a recommendation on how to find environmental risk-management guidance.

Obtain Professional Assistance to Deal with

While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, the engineer’s services were not designed, conducted, or intended to prevent migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, *proper implementation of the geotechnical engineer’s recommendations will not of itself be sufficient to prevent moisture infiltration.* Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. *Geotechnical engineers are not building-envelope or mold specialists.*



GEOPROFESSIONAL
BUSINESS
ASSOCIATION

Telephone: 301/565-2733

e-mail: info@geoprofessional.org www.geoprofessional.org

GENERAL COMMENTS

BASIS OF GEOTECHNICAL REPORT

This report has been prepared in accordance with generally accepted geotechnical engineering practices to assist in the design and/or evaluation of this project. If the project plans, design criteria, and other project information referenced in this report and utilized by SME to prepare our recommendations are changed, the conclusions and recommendations contained in this report are not considered valid unless the changes are reviewed, and the conclusions and recommendations of this report are modified or approved in writing by our office.

The discussions and recommendations submitted in this report are based on the available project information, described in this report, and the geotechnical data obtained from the field exploration at the locations indicated in the report. Variations in the soil and groundwater conditions commonly occur between or away from sampling locations. The nature and extent of the variations may not become evident until the time of construction. If significant variations are observed during construction, SME should be contacted to reevaluate the recommendations of this report. SME should be retained to continue our services through construction to observe and evaluate the actual subsurface conditions relative to the recommendations made in this report.

In the process of obtaining and testing samples and preparing this report, procedures are followed that represent reasonable and accepted practice in the field of soil and foundation engineering. Specifically, field logs are prepared during the field exploration that describe field occurrences, sampling locations, and other information. Samples obtained in the field are frequently subjected to additional testing and reclassification in the laboratory and differences may exist between the field logs and the report logs. The engineer preparing the report reviews the field logs, laboratory classifications, and test data and then prepares the report logs. Our recommendations are based on the contents of the report logs and the information contained therein.

REVIEW OF DESIGN DETAILS, PLANS, AND SPECIFICATIONS

SME should be retained to review the design details, project plans, and specifications to verify those documents are consistent with the recommendations contained in this report.

REVIEW OF REPORT INFORMATION WITH PROJECT TEAM

Implementation of our recommendations may affect the design, construction, and performance of the proposed improvements, along with the potential inherent risks involved with the proposed construction. The client and key members of the design team, including SME, should discuss the issues covered in this report so that the issues are understood and applied in a manner consistent with the owner's budget, tolerance of risk, and expectations for performance and maintenance.

FIELD VERIFICATION OF GEOTECHNICAL CONDITIONS

SME should be retained to verify the recommendations of this report are properly implemented during construction. This may avoid misinterpretation of our recommendations by other parties and will allow us to review and modify our recommendations if variations in the site subsurface conditions are encountered.

PROJECT INFORMATION FOR CONTRACTOR

This report and any future addenda or other reports regarding this site should be made available to prospective contractors prior to submitting their proposals for their information only and to supply them with facts relative to the subsurface evaluation and laboratory test results. If the selected contractor encounters subsurface conditions during construction, which differ from those presented in this report, the contractor should promptly describe the nature and extent of the differing conditions in writing and SME should be notified so that we can verify those conditions. The construction contract should include provisions for dealing with differing conditions and contingency funds should be reserved for potential problems during earthwork and foundation construction. We would be pleased to assist you in developing the contract provisions based on our experience.

The contractor should be prepared to handle environmental conditions encountered at this site, which may affect the excavation, removal, or disposal of soil; dewatering of excavations; and health and safety of workers. Any Environmental Assessment reports prepared for this site should be made available for review by bidders and the successful contractor.

THIRD PARTY RELIANCE/REUSE OF THIS REPORT

This report has been prepared solely for the use of our Client for the project specifically described in this report. This report cannot be relied upon by other parties not involved in the project, unless specifically allowed by SME in writing. SME also is not responsible for the interpretation by other parties of the geotechnical data and the recommendations provided herein.

LABORATORY TESTING PROCEDURES

VISUAL ENGINEERING CLASSIFICATION

Visual classification was performed on recovered samples. The appended General Notes and Unified Soil Classification System (USCS) sheets include a brief summary of the general method used visually classify the soil and assign an appropriate USCS group symbol. The estimated group symbol, according to the USCS, is shown in parentheses following the textural description of the various strata on the boring logs appended to this report. The soil descriptions developed from visual classifications are sometimes modified to reflect the results of laboratory testing.

MOISTURE CONTENT

Moisture content tests were performed by weighing samples from the field at their in-situ moisture condition. These samples were then dried at a constant temperature (approximately 110° C) overnight in an oven. After drying, the samples were weighed to determine the dry weight of the sample and the weight of the water that was expelled during drying. The moisture content of the specimen is expressed as a percent and is the weight of the water compared to the dry weight of the specimen.

HAND PENETROMETER TESTS

In the hand penetrometer test, the unconfined compressive strength of a cohesive soil sample is estimated by measuring the resistance of the sample to the penetration of a small calibrated, spring-loaded cylinder. The maximum capacity of the penetrometer is 4.5 tons per square-foot (tsf). Theoretically, the undrained shear strength of the cohesive sample is one-half the unconfined compressive strength. The undrained shear strength (based on the hand penetrometer test) presented on the boring logs is reported in units of kips per square-foot (ksf).

TORVANE SHEAR TESTS

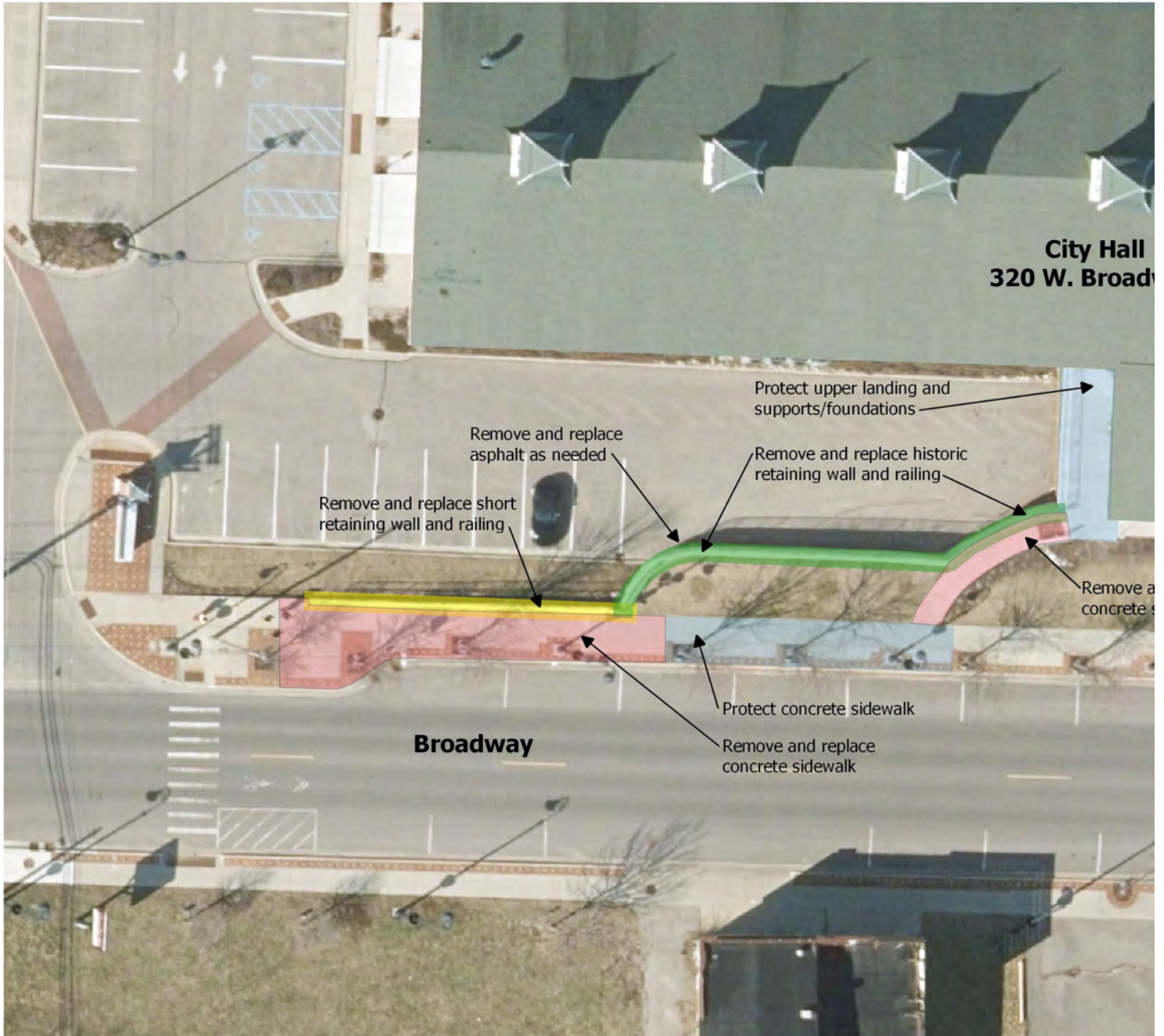
In the Torvane test, the shear strength of a low strength, cohesive soil sample is estimated by measuring the resistance of the sample to a torque applied through vanes inserted into the sample. The undrained shear strength of the samples is measured from the maximum torque required to shear the sample and is reported in units of kips per square-foot (ksf).

LOSS-ON-IGNITION (ORGANIC CONTENT) TESTS

Loss-on-ignition (LOI) tests are conducted by first weighing the sample and then heating the sample to dry the moisture from the sample (in the same manner as determining the moisture content of the soil). The sample is then re-weighed to determine the dry weight and then heated for 4 hours in a muffle furnace at a high temperature (approximately 440° C). After cooling, the sample is re-weighed to calculate the amount of ash remaining, which in turn is used to determine the amount of organic matter burned from the original dry sample. The organic matter content of the specimen is expressed as a percent compared to the dry weight of the sample.

ATTERBERG LIMITS TESTS

Atterberg limits tests consist of two components. The plastic limit of a cohesive sample is determined by rolling the sample into a thread and the plastic limit is the moisture content where a 1/8-inch thread begins to crumble. The liquid limit is determined by placing a 1/2-inch thick soil pat into the liquid limits cup and using a grooving tool to divide the soil pat in half. The cup is then tapped on the base of the liquid limits device using a crank handle. The number of drops of the cup to close the gap formed by the grooving tool 1/2 inch is recorded along with the corresponding moisture content of the sample. This procedure is repeated several times at different moisture contents and a graph of moisture content and the corresponding number of blows is plotted. The liquid limit is defined as the moisture content at a nominal 25 drops of the cup. From this test, the plasticity index can be determined by subtracting the plastic limit from the liquid limit.



Overview

Project Name
City ROW Tree Inventory

Total Requested
\$15,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Environmental
- Infrastructure

Project Description

We would like to obtain a full inventory of the City's right-of-way trees. This inventory would include GPS coordinates for each tree, species, health/condition, height, diameter, and the software to maintain the inventory.

Benefit Description

A base knowledge of the City maintained trees would help with species diversification for future plantings and eliminate planting too many of the same varieties in order to help protect the current inventory from damage from invasive species, diseases and pests.

Funding Requirements

None

Project Timeline

Summer 2023

Budget Items

Name	Cost	Quantity	Total	Category
City ROW Tree Inventory	\$15,000.00	1	\$15,000.00	Environmental
AmountRequested	\$15,000.00			

Matching Funds

Name	Cost	Quantity	Total
MDNR Awarded Grant	\$15,000.00	1	\$15,000.00
AmountMatched	\$15,000.00		

Budget Summary

Amount Requested

\$15,000.00

Amount Matched

\$15,000.00

Total Amount

\$30,000.00

Uploaded Files

Name
CityofMountPleasant2022030320220901_2023-03-06.pdf

There are no comments to display.

ARBORPRO, INC.

Proposal for Tree Inventory Services

July 1, 2021

Matt Weaver
City of Mount Pleasant
Mount Pleasant, MI

OVERVIEW

ArborPro, Inc. is a full-service Urban Forestry consulting company. We provide municipalities, universities, and government agencies with an array of products and services. Our core services include; GPS tree inventories, GIS-based management software, Urban Forest Management Plans, Planting Plans, Hazardous Tree Assessments, and public education on the benefits of trees and tree inventories. We have been providing these services for over 15 years.

OUR PROPOSAL

We intend to send our ISA Certified Arborists to collect an estimated 7,500 trees within the City of Mount Pleasant. The cost outlined below is a per tree price. The final cost of the project will be determined by the actual number of sites collected and can be adjusted to accommodate additional data collection. A Geographic Information System (GIS)-based inventory of maintained trees, planting sites, and stumps located along public rights-of-way (ROW) and Parks will be performed based on American National Standards Institute (ANSI) A300 standards.

PRICING

The following table details the pricing for delivery of the services outlined in this proposal.

Fixed Fees	Unit	Number of Trees	Price	Total
Tree Inventory & Assessment Services	Per Tree	7,500	\$3.75	\$28,125
Total				\$28,125

Data collection will contain at a minimum the following attributes:

TREE INVENTORY DATA FIELDS

- GPS coordinates with sub-meter accuracy
- Tree location based on hierarchy – zone, address #, street
- Tree name: Common and Botanical
- Tree size: DBH (diameter at 4.5 feet above ground)
- Number of trunks
- Clearance issues (visibility issues to vehicles, pedestrians, signs)
- Overhead utilities (Y/N)
- Recommended Maintenance
- Condition (excellent, good, fair, poor, dead)
- Observations – Arborist will provide general observations
- Height
- Hardscape damage (Y/N)
- Additional notes when needed
- Date of assessment

SOFTWARE

ArborPro Inventory Data Collectors will record the required tree attributes onto our proprietary ArborPro software suite, which utilizes the latest in GIS (Geographic Information System) technology to offer users an immediate visual representation of any tree. The City's tree inventory data will be uploaded weekly into ArborPro's multi-purpose, Cloud based tree management software, and will also be provided as an Excel™ database and ESRI® shapefiles. ArborPro Enterprise gives the user the ability to access the database through any web enabled device; computer, smart phone, tablet, etc. While software is not a required component of this proposal, we are offering access to the system during the inventory project.

If the City chooses to continue using ArborPro's system after the project is completed, the following subscriptions are available.

Subscription Options

Term	Cost
One (1) Year	\$2,250
Three (3) Years	\$5,750
Five (5) Years	\$9,000

If you have questions on this proposal, feel free to contact me at your convenience by email at cconlee@arborprousa.com or by phone at (714) 357-7261.

Thank you for your consideration,

Chris Conlee
Division Manager
ArborPro, Inc.

Overview

Project Name
Close Sidewalk Gaps

Total Requested
\$89,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure
- Safety/Security
- Transportation

Project Description

This project is intended to close gaps in the existing sidewalk network to create a continuous sidewalk in various highly traveled pathways. The gaps in the sidewalk were the result of past developments that were not required to install sidewalks, or developments that are disconnected from existing sidewalks.

- There are three gap locations that would require new sidewalk to be constructed to close the gaps.
- 1) Crosslanes at East Drive - The sidewalk on the north side of the street has a gap where a future street crossing has yet to be completed, as development in this area is not currently planned.
 - 2) Burch Street - The sidewalk on the South side of Burch street has two gaps from Bradley St to Recker Motor Sports and from Recker

Motor Sports to Adams St.
3) Crawford Road south of Broomfield Road - There is a gap in the sidewalk from the WestPoint Village apartments to Broomfield Road. This apartment development is disconnected from existing sidewalk.

A 2% Tribal contribution of \$89,000 will allow us to fill in the gaps and complete these sidewalk locations in highly traveled pedestrian areas.

Benefit Description

The Crosslanes Street sidewalk section will benefit the community along with Mt. Pleasant Public Schools, as this sidewalk is a direct connection to Mary McGuire Elementary School. This section of sidewalk is highly traveled, especially by elementary students during the school year.

The Burch Street sidewalk section will benefit the community along with Mt. Pleasant Public Schools, as this sidewalk is near the Mill Pond Park and is a connecting path for students and West Intermediate school. It is also a connection to residential areas and businesses along High Street.

Crawford Road sidewalk section will benefit the community along with Central Michigan University, as this sidewalk is a direct connection from the WestPoint Village apartments and Central Michigan University. Crawford Road is a highly traveled roadway that also sees higher speeds, the addition of a sidewalk in this location would help to provide safety to the pedestrian traveling this stretch of road.

Funding Requirements

None

Project Timeline

Summer of 2023

Budget Items

Name	Cost	Quantity	Total	Category
Traffic Control	\$7,000.00	1	\$7,000.00	Safety/Security
Work Items	\$82,000.00	1	\$82,000.00	Safety/Security
AmountRequested	\$89,000.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$89,000.00

Amount Matched

\$0.00

Total Amount

\$89,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.



Overview

Project Name
Food Waste/ Organics Receiving

Total Requested
\$300,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Environmental
- Infrastructure

Project Description

The City of Mt. Pleasant, Water Resource Recovery Team, worked with professors and a senior design team from CMU to pilot receiving food waste into our anaerobic digesters to study the effects of increased organics on gas production. Based on this data and other research, the City of Mt Pleasant envisions constructing a food/organic waste receiving station to accept food waste from CMU and other establishments in the community. The food waste receiving station will properly prepare the food waste and pump it into our anaerobic digester for treatment.

In 2022, the WRRF team participated in a Next Cycle I2P3 challenge track through which \$500,000 in funding from EGLE was pledged to move forward with the project. Our engineering firm’s probable opinion was a total package price of \$800,000 for which we are seeking additional funding.

Benefit Description

This project will benefit the tribe and community by providing a local area for disposal of food and organic waste while contributing to a circular economy. Diverting food waste away from landfills and repurposing it as feedstock for our existing digesters reduces methane production from landfills, lowers natural gas usage, our carbon footprint, and produces a beneficially reusable bio-solid that can be directly applied to fields as a soil amendment.

Funding Requirements

None.

Project Timeline

Anticipated start date on this project is 3rd or 4th quarter of 2023.

Budget Items

Name	Cost	Quantity	Total	Category
Food Waste Receiving Equipment	\$300,000.00	1	\$300,000.00	Infrastructure
AmountRequested	\$300,000.00			

Matching Funds

Name	Cost	Quantity	Total
Food Waste Receiving Equipment (NextCycle Grant)	\$500,000.00	1	\$500,000.00
AmountMatched	\$500,000.00		

Budget Summary

Amount Requested

\$300,000.00

Amount Matched

\$500,000.00

Total Amount

\$800,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name

Lime Disposal

Total Requested

\$215,000.00

(amount based on the Itemized Budget total)

Applicant Project Priority

High

Reoccurring Need?

Not Reoccurring

Applicant Information

Applicant Name

jmoore@mt-pleasant.org

Applicant Email

Jason Moore

Organization

City of MtPleasant

Address

320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number

9897795405

Organization Information

Primary Organization

City of Mt. Pleasant

Authorizers

adesentz@mt-pleasant.org

Status

Review

Address

320 W. Broadway
Mount Pleasant, Michigan 48858

Phone

(989) 779-5300

Fax

Categories

- Environmental
- Infrastructure

Project Description

The water treatment plant softens water using a chemical precipitation process. Lime residual is produced as part of this treatment process. This is a required and ongoing project.

Benefit Description

This is a project that must be completed to ensure continued ability to produce softened drinking water. Lime residual removal is required every 3-5 years depending on the amount produced per year. Additional funding would allow us to remove an amount in 2023 to make up for the lack of removal caused by increased costs realized since 2019.

Funding Requirements

This project is apart of an ongoing Asset Management Program that is funded by the Capitol Improvement Planning process.

The city was previously awarded a 2% grant in 2021 for lime residual removal.

Project Timeline

Spring-summer of 2023

Budget Items

Name	Cost	Quantity	Total	Category
Lime Disposal	\$215,000.00	1	\$215,000.00	Environmental
AmountRequested	\$215,000.00			

Matching Funds

Name	Cost	Quantity	Total
Lime Disposal	\$429,000.00	1	\$429,000.00
AmountMatched	\$429,000.00		

Budget Summary

Amount Requested

\$215,000.00

Amount Matched

\$429,000.00

Total Amount

\$644,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
Asphalt Overlays and Street Resurfacing

Total Requested
\$577,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure
- Transportation

Project Description

Each year, the City’s Engineering Department completes an evaluation of all streets within the City limits. This evaluation determines the maintenance needed to restore the streets to a good quality surface. Many streets require preventative maintenance to improve their condition and prevent further deterioration. If the streets are left unattended, they will eventually need to be reconstructed. For every mile of street that must be reconstructed, nearly nine miles can be overlaid for the same cost. With a 2% contribution by the Saginaw Chippewa Indian Tribe, the City's overlay program can continue into the future.

Benefit Description

The City's thin overlay program allows us to stay on top of maintenance in our street system. Thin overlay are one of the most cost effect treatments in the "mix of fixes" that we use and being able to fund the program fully means that we can incorporate full reconstructs into our capital improvement plan as the need arises. Any funding provided helps ensure that our street maintenance program continues at a sustainable pace.

Funding Requirements

The City's thin overlay program is on going with projects of various size and location happening roughly every other year.

Project Timeline

Summer of 2023

Budget Items

Name	Cost	Quantity	Total	Category
Major Street Overlays	\$427,000.00	1	\$427,000.00	Transportation
Local Street Overlays	\$150,000.00	1	\$150,000.00	Transportation
AmountRequested	\$577,000.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$577,000.00

Amount Matched

\$0.00

Total Amount

\$577,000.00

Uploaded Files

Name
2023ThinOverlayProjectBidTab_2023-03-07.pdf
12023ThinOverlayCityWideMap_2023-03-07.pdf

There are no comments to display.

City of Mt. Pleasant, Michigan
2023 Thin Overlay Project

Central Asphalt, Inc.
900 S. Bradley St.
Mt. Pleasant, MI 48858

Accessibility Items

Division I - Major Streets

ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Minor Traffic Devices	1	LS	\$ 34,870.62	\$ 34,870.62
Pavt. Rem, Modified	81	Syd	\$ 20.00	\$ 1,620.00
Curb and Gutter, Rem	362	LFT	\$ 20.00	\$ 7,240.00
Sidewalk, Rem	456	Syd	\$ 15.00	\$ 6,840.00
Erosion Control, Inlet Protection, Filter Bag	9	Ea	\$ 150.00	\$ 1,350.00
Subbase, CIP	42	Cyd	\$ 15.00	\$ 630.00
Curb and Gutter, Conc, Det F4, Modified	178	Ft	\$ 40.00	\$ 7,120.00
Curb Ramp Opening, Conc, Modified	184	Ft	\$ 40.00	\$ 7,360.00
Detectable Warning Surface, Modified	216	Ft	\$ 80.00	\$ 17,280.00
Sidewalk Ramp, Conc, 6 inch	3,283	Sft	\$ 12.00	\$ 39,396.00
Sidewalk, Conc, 4 inch	690	Sft	\$ 8.50	\$ 5,865.00
Sidewalk, conc, 6 inch, CMU, Standard Duty	821	Sft	\$ 11.00	\$ 9,031.00
Aggregate Base, MDOT 22A CIP 6 inch CMU	91	Syd	\$ 15.00	\$ 1,365.00
Hand Patching	16	TON	\$ 400.00	\$ 6,400.00
Dr Structure Cover Adj. Case 1	50	Ea	\$ 394.99	\$ 19,749.50
Dr Structure Cover SAN, Modified	6	Ea	\$ 1,269.92	\$ 7,619.52
Dr Structure Cover STM, Modified	8	Ea	\$ 1,269.92	\$ 10,159.36
HMA, Ultra-Thin, Medium Volume	2,400	Ton	\$ 97.15	\$ 233,160.00
Pavt Mrkg, Waterborne, 4 inch, Yellow	7,040	Ft	\$ 0.10	\$ 704.00
Pavt Mrkg, Waterborne, 4 inch, White	15,967	Ft	\$ 0.10	\$ 1,596.70
Pavt Mrkg, Waterborne, 4 inch, Yellow, Restricted Area	180	Ft	\$ 2.00	\$ 360.00
Pavt Mrkg, Waterborne, 4 inch, White, Restricted Area	329	Ft	\$ 1.00	\$ 329.00
Pavt Mrkg, Waterborne, 12 inch, White, Crosswalk, Special				
Emphasis	814	Ft	\$ 2.00	\$ 1,628.00
Pavt Mrkg, Waterborne, 4 inch, White, Crosswalk	401	Ft	\$ 1.00	\$ 401.00
Pavt Mrkg, Waterborne, 24 inch, White, Stop Bar	205	Ft	\$ 3.00	\$ 615.00
Pavt Mrkg, Waterborne, Right and Thru Arrow	3	Ea	\$ 75.00	\$ 225.00
Pavt Mrkg, Waterborne, Right Arrow	3	Ea	\$ 50.00	\$ 150.00
Pavt Mrkg, Waterborne, Left Arrow	4	Ea	\$ 50.00	\$ 200.00
Pavt Mrkg, Waterborne, Shared Lane Symbol	10	Ea	\$ 40.00	\$ 400.00
Pavt Mrkg, Waterborne, Small Bike Lane Symbol (6 ft)	23	Ea	\$ 35.00	\$ 805.00
Pavt Mrkg, Waterborne, Smalle Bike Lane Arrow (6 ft)	23	Ea	\$ 35.00	\$ 805.00
Pavt Mrkg, Waterborne, STOP AHEAD	2	EA	\$ 150.00	\$ 300.00
Restoration, Modified	559	Ft	\$ 3.00	\$ 1,677.00
TOTAL - DIVISION I			\$	427,251.70

Division II - Local Streets

ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Dr Structure Cover Adj. Case I	26	EA	\$ 394.99	\$ 10,269.74
Dr Structure Cover SAN, Modified	1	EA	\$ 1,269.92	\$ 1,269.92
Dr Structure Cover STM, Modified	1	Ea	\$ 1,269.92	\$ 1,269.92
HMA, Ultra-Thin, Medium Volume	1,194	Ton	\$ 115.55	\$ 137,966.70

TOTAL - DIVISION II \$ **150,776.28**

Division III - Mission DDA Alleys

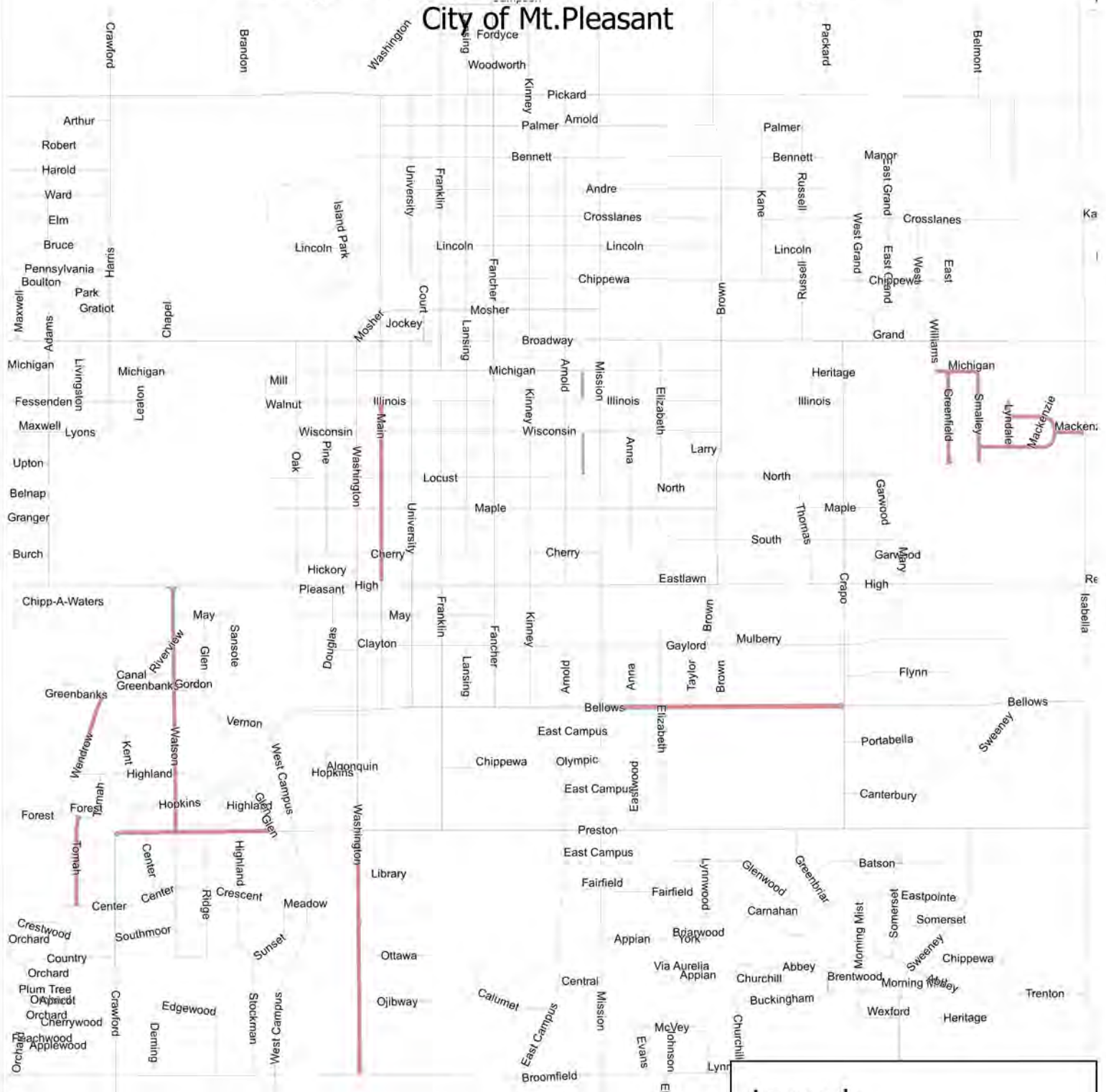
ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Dr Structure Cover SAN, Modified	1	EA	\$ 1,269.92	\$ 1,269.92
HMA, Ultra-Thin, Medium Volume	74	Ton	\$ 140.81	\$ 10,419.94
HMA, 13A (Scratch Coat)	31	Ton	\$ 140.81	\$ 4,365.11

TOTAL - DIVISION III \$ **16,054.97**


TOTAL BID \$ **594,082.95**

City Map of 2023 Overlays

City of Mt. Pleasant



Legend

 Overlay Locations



Public Works Mt. Pleasant
Engineering



Published: Dec-14-2022
\\comfile\GIS\Departmental

Overview

Project Name
Pickard and Bradley Traffic Signal

Total Requested
\$84,100.00
(amount based on the Itemized Budget total)

Applicant Project Priority
High

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Safety/Security

Project Description

This project will install a new traffic signal at the intersection of Bradley and Pickard Streets.

Benefit Description

Early in 2022 the Isabella County Road Commission received notice of grant funding available to install a traffic signal at the intersection of Pickard and Bradley Streets. The county engineer has determined that the intersection meets warrants and that a signal would be an appropriate upgrade for the intersection.

The grant will cover just over half the project cost. Since the intersection includes two city street segments, the City will be covering 50% of the excess costs. This expense was not in the City’s Capital Improvement Plan, so it is challenging to incorporate this cost share into our budget. Funding through a Tribal 2% grant will ensure that our portion of the project is covered.

Funding Requirements

Routine maintenance will be covered by the operations budget.

Project Timeline

Summer of 2023

Budget Items

Name	Cost	Quantity	Total	Category
Pickard and Bradley Traffic Signal	\$84,100.00	1	\$84,100.00	Safety/Security
AmountRequested	\$84,100.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$84,100.00

Amount Matched

\$0.00

Total Amount

\$84,100.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
Pickard Storm Sewer

Total Requested
\$208,500.00
(amount based on the Itemized Budget total)

Applicant Project Priority
High

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure

Project Description

This request is for funding to upsize large-diameter storm sewer structures at the Pickard and Brown Street intersection. A large trunk line storm sewer that serves much of the east side of the City of Mt. Pleasant runs down Brown Street and crosses Pickard Street. Based on the analysis provided by the Multi-Jurisdictional Stormwater Master Plan that was accomplished with a previous two-percent grant, this trunk line sewer will need upgrading to provide adequate service to the upstream areas.

MDOT will be reconstructing Pickard Street in 2023-2024 and incorporating storm work into the project at that time will save significant costs associated with traffic control and contractor mobilization. The engineering consultant has incorporated the upsizing into the plans and MDOT is prepared to do the work if provided funding from the City.

Benefit Description

This project will allow for future upgrades to the stormwater collection system in order to meet the demands of future storm events.

Funding Requirements

Future funding requirements for operations and maintenance of the stormwater infrastructure are roughly equal to that of the current infrastructure.

Project Timeline

Not Entered

Budget Items

Name	Cost	Quantity	Total	Category
Work Items	\$183,500.00	1	\$183,500.00	Infrastructure
Mobilization	\$20,000.00	1	\$20,000.00	Infrastructure
Traffic Control	\$5,000.00	1	\$5,000.00	Infrastructure
AmountRequested	\$208,500.00			

Matching Funds

Name	Cost	Quantity	Total
Work Items	\$183,500.00	1	\$183,500.00
Mobilization	\$20,000.00	1	\$20,000.00
Traffic Control	\$5,000.00	1	\$5,000.00
AmountMatched	\$208,500.00		

Budget Summary

Amount Requested

\$208,500.00

Amount Matched

\$208,500.00

Total Amount

\$417,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
Screening and Debris Removal Odor Control and Rehabilitation

Total Requested
\$16,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Critical

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Environmental
- Infrastructure

Project Description

The City of Mt. Pleasant Water Resource Recovery Facility utilizes a Flex Rake for screening and debris removal which occurs at the head of the plant. The screening removal equipment protects critical infrastructure from damages caused by blockages in pipes and pumps. Currently the flex rake, which also includes a washer/compactor to dewater the rags, is in need of rehabilitation to replace both gearboxes and motors that operate the equipment in each unit. Upon routine inspections, an obstruction which caused a hole in the drive assembly was discovered which could potentially lead to failure in the future. In addition, our goal is to purchase and install a bagger unit to help with odor control. These modifications and upgrades to the Flex Rake system will prolong the life of the equipment and help in the effort to reduce obnoxious odors at the treatment facility.

Benefit Description

Maintaining this critical infrastructure will benefit the local community by providing up to date processes critical to the treatment of water returned to the Chippewa Watershed, and by reducing the potential of sewer backups. Additionally, the community will benefit from odor reduction while protecting the health of the community, and environment in times of heavy flows and emergencies.

Funding Requirements

None.

Project Timeline

Project completion is anticipated in the summer of 2023.

Budget Items

Name	Cost	Quantity	Total	Category
Drive Assembly	\$14,000.00	1	\$14,000.00	Infrastructure
Bagger Unit	\$2,000.00	1	\$2,000.00	Infrastructure
AmountRequested	\$16,000.00			

Matching Funds

Name	Cost	Quantity	Total
Compactor Motor and Gearbox	\$8,000.00	1	\$8,000.00
Flex Rake Motor and Gearbox	\$8,000.00	1	\$8,000.00
AmountMatched	\$16,000.00		

Budget Summary

Amount Requested

\$16,000.00

Amount Matched

\$16,000.00

Total Amount

\$32,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
Sidewalk Replacement

Total Requested
\$150,000.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Low

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure

Project Description

Each year the City invests in maintenance of the sidewalk system. Focus is generally placed on identifiable hazards such as large obstacles and trees blocking sidewalk paths, small lips and cracks, pocketing water and spalling. Replacement sidewalks are built to coincide with planned street and water main replacement projects.

This project would replace sidewalk in various locations within the city.

Benefit Description

Since 1996, sidewalk has been replaced each year throughout the City. The Division of Public Works has created a sidewalk rating system so that the sidewalk replacement list can be prioritized and this project would address the worst sidewalk within the city.

Funding Requirements

Sidewalk replacement is an ongoing expense.

Project Timeline

Summer - 2023

Budget Items

Name	Cost	Quantity	Total	Category
Sidewalk Replacement - Various Locations	\$150,000.00	1	\$150,000.00	Infrastructure
AmountRequested	\$150,000.00			

Matching Funds

Name	Cost	Quantity	Total
No Matching Funds items have been added.			
AmountMatched	\$0.00		

Budget Summary

Amount Requested

\$150,000.00

Amount Matched

\$0.00

Total Amount

\$150,000.00

Uploaded Files

Name
No files have been uploaded.

There are no comments to display.

Overview

Project Name
Storm Sewer Extension

Total Requested
\$82,050.00
(amount based on the Itemized Budget total)

Applicant Project Priority
Medium

Reoccurring Need?
Not Reoccurring

Applicant Information

Applicant Name
jmoore@mt-pleasant.org

Applicant Email
Jason Moore

Organization
City of MtPleasant

Address
320 W Broadway St
MOUNT PLEASANT , 48858

Phone Number
9897795405

Organization Information

Primary Organization
City of Mt. Pleasant

Authorizers
adesentz@mt-pleasant.org

Status
Review

Address
320 W. Broadway
Mount Pleasant, Michigan 48858

Phone
(989) 779-5300

Fax

Categories

- Infrastructure
- Safety/Security
- Transportation

Project Description

This project will extend six-inch pipe to various properties around the city that do not currently have direct access to the storm water collection system. These pipes would be utilized for sump pump connections, alleviating strain on the sanitary sewer collection system, Water Resource Recovery Facility, and improving the streets.

A storm sewer extension project is currently planned for the 2023 construction season on Anna Street. Additional locations have been identified for future projects.

A 2% Tribal contribution of \$82,050, with matching funds from the City of Mt. Pleasant, will allow us to install the new storm sewer extension.

Benefit Description

State law dictates that sump pumps cannot be connected to the sanitary sewer system. When property owners in the city upgrade or renovate their properties, many times it requires plumbing upgrades to meet current codes. In recent years, there have been a number of residential properties that have had sump pump effluent run from front yards to the street, as there is no other mechanism to remove the groundwater. This results in varying degrees of street icing in the winter, depending on conditions.

Sump pumps connected to the sanitary sewer system can cause backups of the sanitary sewer system during storm events. A stormwater master plan was recently completed with funding from a previous 2% grant and verified that compacity exists within the stormwater collection system for sump pumps. This project provides for the extension of drains for storm and ground water so that residents can disconnect sump pumps from the sanitary sewer system.

Funding Requirements

None

Project Timeline

Summer 2023

Budget Items

Name	Cost	Quantity	Total	Category
Storm Sewer Extension	\$82,050.00	1	\$82,050.00	Infrastructure
AmountRequested	\$82,050.00			

Matching Funds

Name	Cost	Quantity	Total
Storm Sewer Extension	\$82,050.00	1	\$82,050.00
AmountMatched	\$82,050.00		

Budget Summary

Amount Requested

\$82,050.00

Amount Matched

\$82,050.00

Total Amount

\$164,100.00

Uploaded Files

Name
2023 Bid Tab
Design Drawings

There are no comments to display.

City of Mt. Pleasant, Michigan
2023 Storm Sewer Extension Project

G.A. Hunt Excavating, LLC
 1220 E. Taft Rd.
 St. Johns, MI 48879

The Isabella Corporation
 2201 Commerce St.
 Mt. Pleasant, MI 48858

ITEM	QTY	UNIT	UNIT PRICE	AMOUNT
Pavt, Rem, Modified	3	Syd	\$ 350.00	\$ 1,050.00
Curb and Gutter, Rem	10	Lft	\$ 24.20	\$ 242.00
Sidewalk, Rem	8	Syd	\$ 93.78	\$ 750.24
Erosion Control, Filter Bag	12	Ea	\$ 60.00	\$ 720.00
Curb Ramp Opening, Conc, Modified	10	Lft	\$ 30.47	\$ 304.70
Sidewalk Ramp, Conc, 6 inch	72	Sft	\$ 11.98	\$ 862.56
Detectable Warning Surface, Modified	5	Ft	\$ 170.00	\$ 850.00
Sewer, HDPE, 6 inch, Bored	1438	Lft	\$ 66.83	\$ 96,101.54
Sewer Service Lead, 6 inch, Bored	13	Ea	\$ 2,980.00	\$ 38,740.00
Cap, 6 inch	20	Ea	\$ 525.00	\$ 10,500.00
Sewer, Tap, 6 inch	5	Ea	\$ 1,340.00	\$ 6,700.00
Sewer Conn, 6 inch	2	Ea	\$ 1,550.00	\$ 3,100.00
Hand Patching	1	Ton	\$ 500.00	\$ 500.00
Restoration, Modified	23	Sta	\$ 160.00	\$ 3,680.00
TOTAL BID				\$ 164,101.04

UNIT PRICE	AMOUNT
\$ 50.00	\$ 150.00
\$ 50.00	\$ 500.00
\$ 50.00	\$ 400.00
\$ 150.00	\$ 1,800.00
\$ 50.00	\$ 500.00
\$ 20.00	\$ 1,440.00
\$ 150.00	\$ 750.00
\$ 110.00	\$ 158,180.00
\$ 5,000.00	\$ 65,000.00
\$ 200.00	\$ 4,000.00
\$ 1,000.00	\$ 5,000.00
\$ 1,000.00	\$ 2,000.00
\$ 1,000.00	\$ 1,000.00
\$ 1.00	\$ 23.00
	\$ 240,743.00

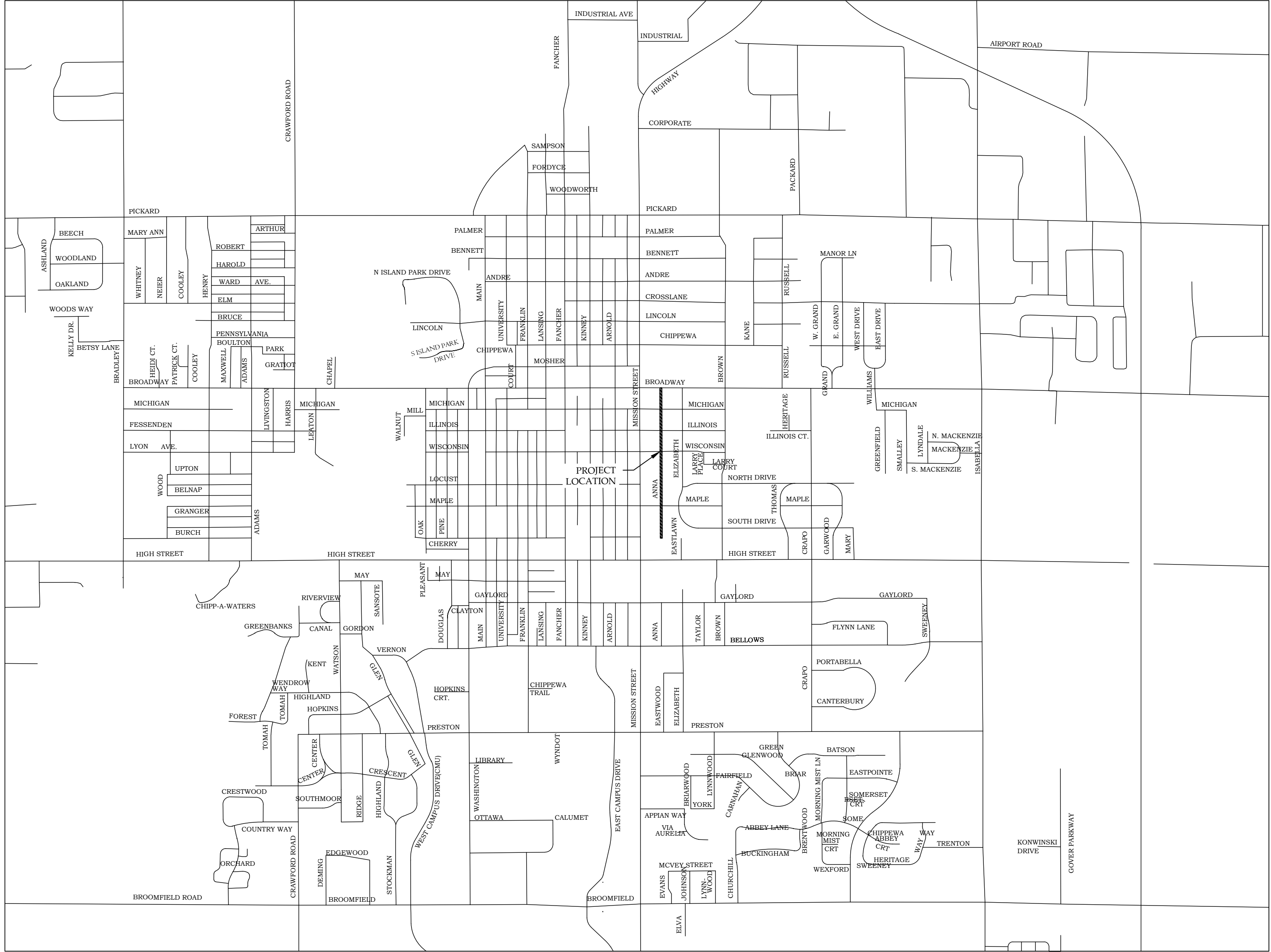
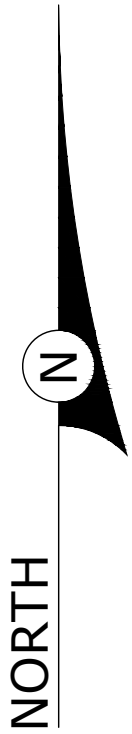
CITY OF MT. PLEASANT

DIVISION OF PUBLIC WORKS

2023 STORM SEWER EXTENSION PROJECT

SHEET INDEX

1. COVER SHEET
2. DETAIL SHEET
3. STA. 0+00 - 5+00 PLAN
4. STA. 5+00 - 10+00 PLAN
5. STA. 10+00 - 13+50 PLAN
6. STA. 13+50 - 16+50 PLAN
7. STA.16+50 - 20+00 PLAN
8. STA. 20+00 - 23+25 PLAN
9. SOIL EROSION AND SEDIMENTATION CONTROL KEY



CITY OF MT. PLEASANT, MICHIGAN

MAYOR
AMY PERSCHBACHER

COMMISSIONERS
BOOMER WINGARD
BRIAN ASSMANN
BRYAN CHAPMAN
MARY ALSAGER
MAUREEN EKE
ELIZABETH BUSCH

CITY MANAGER
AARON DESENTZ

DIRECTOR OF PUBLIC WORKS
JASON MOORE

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

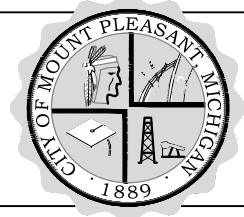
THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH THE AASHTO, A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 2011, & 2009 MMUTCD.

MISS DIG: CALL TOLL FREE 1-800-482-7171 MINIMUM OF THREE WORKING DAYS BEFORE STARTING THIS PROJECT, OR ANY DIGGING.

UTILITIES:
THE FOLLOWING UTILITIES ARE LOCATED IN OR NEAR THE RIGHT-OF-WAY OF THIS PROJECT.

UTILITY	OWNER	CONTACT
GAS	DTE/MICHCON 609 BJORNSON BIG RAPIDS, MI 49307	LARRY BOURKE (231) 349-2364 (CELL) (231) 592-3244 (DESK)
ELECTRIC	CONSUMERS ENERGY 1 CONSUMERS ENERGY PKWY CLARE, MI 48617	ERICA BAUMANN (517) 285-4629
TELEPHONE	FRONTIER COMMUNICATION 345 PINE STREET ALMA, MI 48801	DOUG HOVEY (989) 285-5192 (CELL) (989) 463-5497 (DESK)
TELEPHONE	WINNTEL COMMUNICATIONS 402 N MISSION ST, SUITE 1 MT. PLEASANT, MI 48858	MONTIE SMITH (989) 289-8455 (CELL) (989) 953-9800 (OFFICE)
CABLE	CHARTER COMMUNICATION 915 E. BROOMFIELD RD. MT. PLEASANT, MI 48858	BYRON CARROLL (989) 621-0505
CABLE	CMS INTERNET 131 S MAIN ST MT. PLEASANT, MI 48858	BRETT HALLIHAN (989) 330-9140
SEWER & WATER	CITY OF MT. PLEASANT 1303 N. FRANKLIN ST. MT. PLEASANT, MI 48858	ROBYN LIPTOW (989) 779-5407
CMU CONTACT	CMU PLANT ENGINEERING AND PLANNING MT. PLEASANT, MI 48858	JEN FLACHS (989) 774-6404

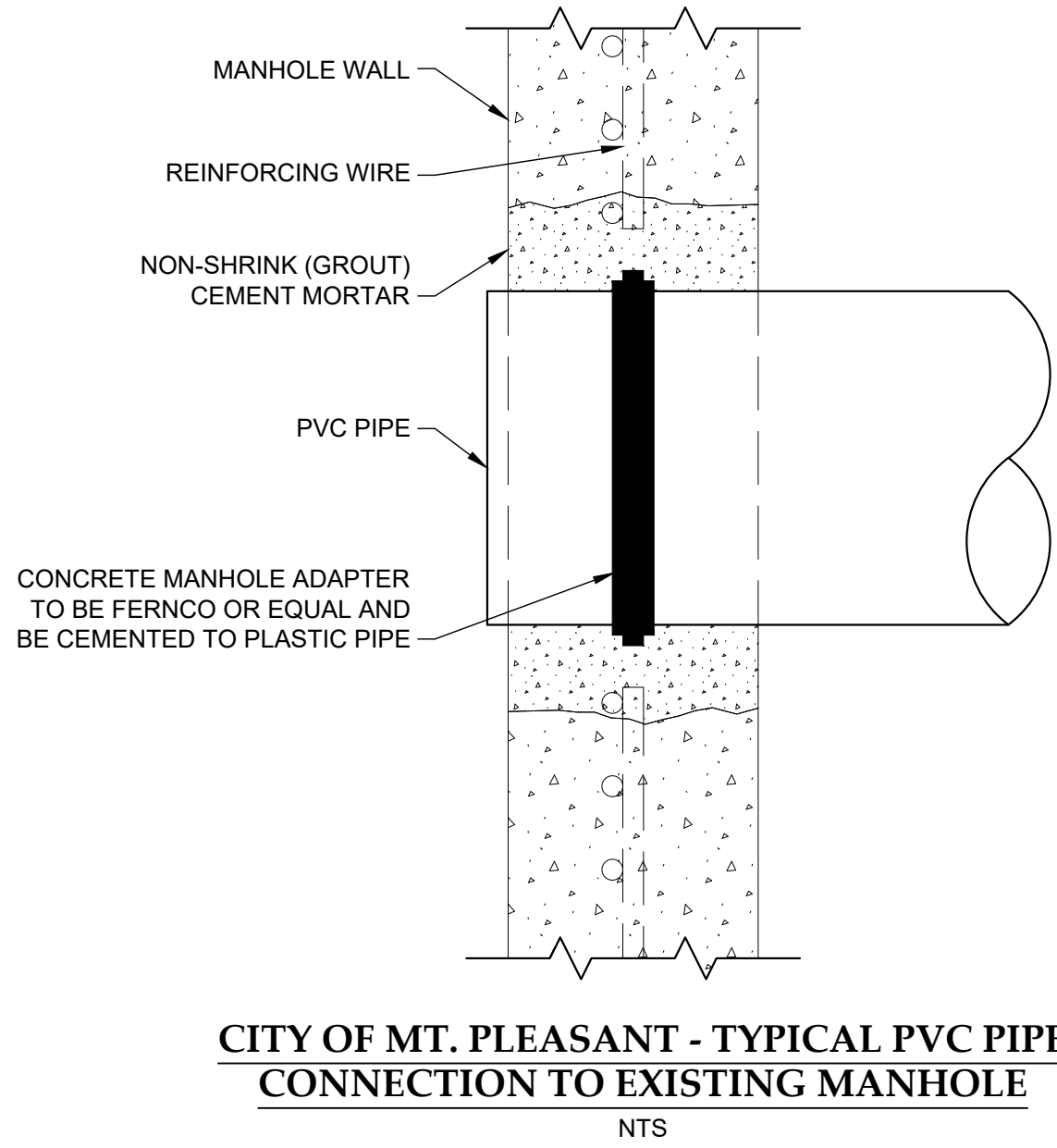
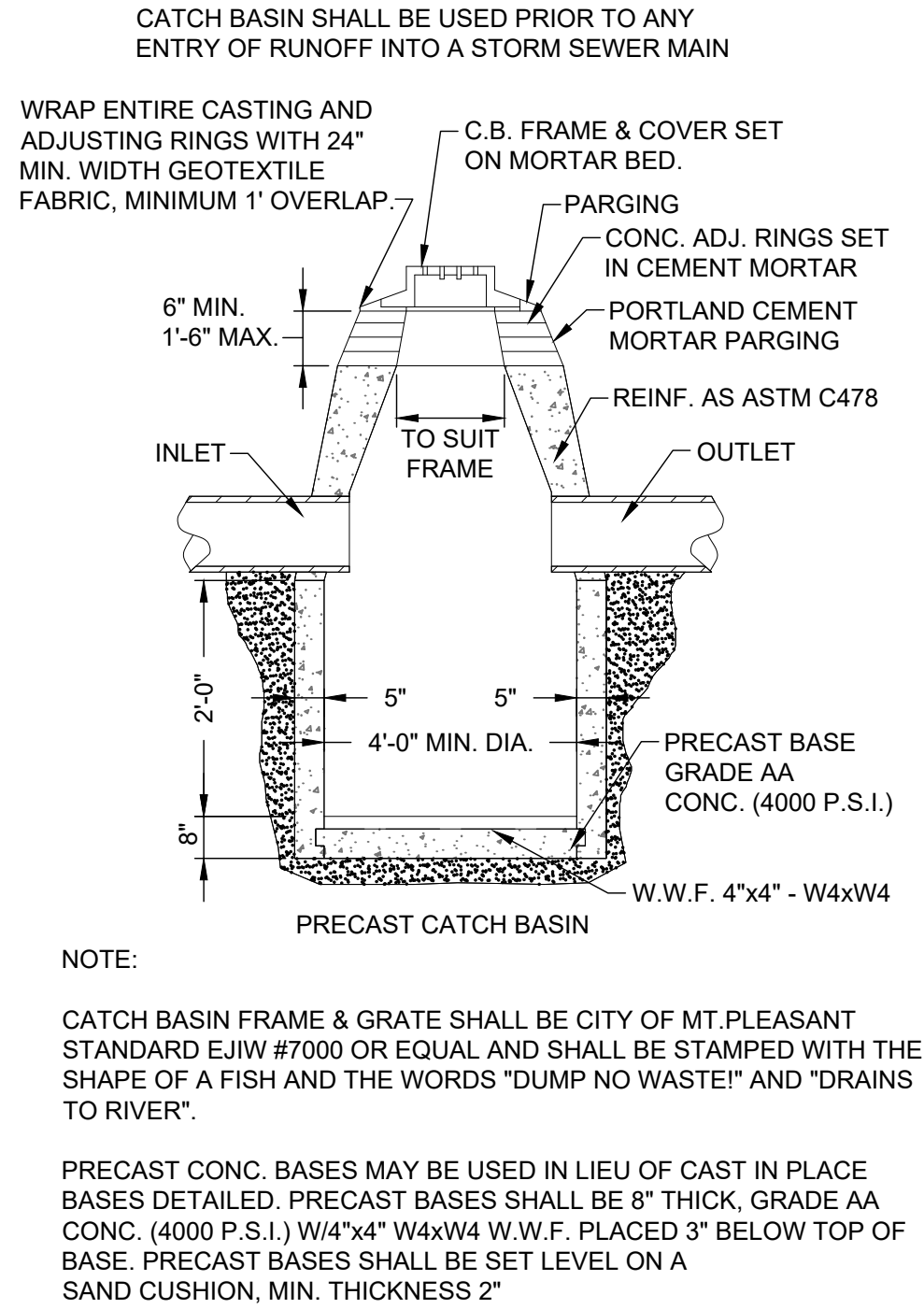
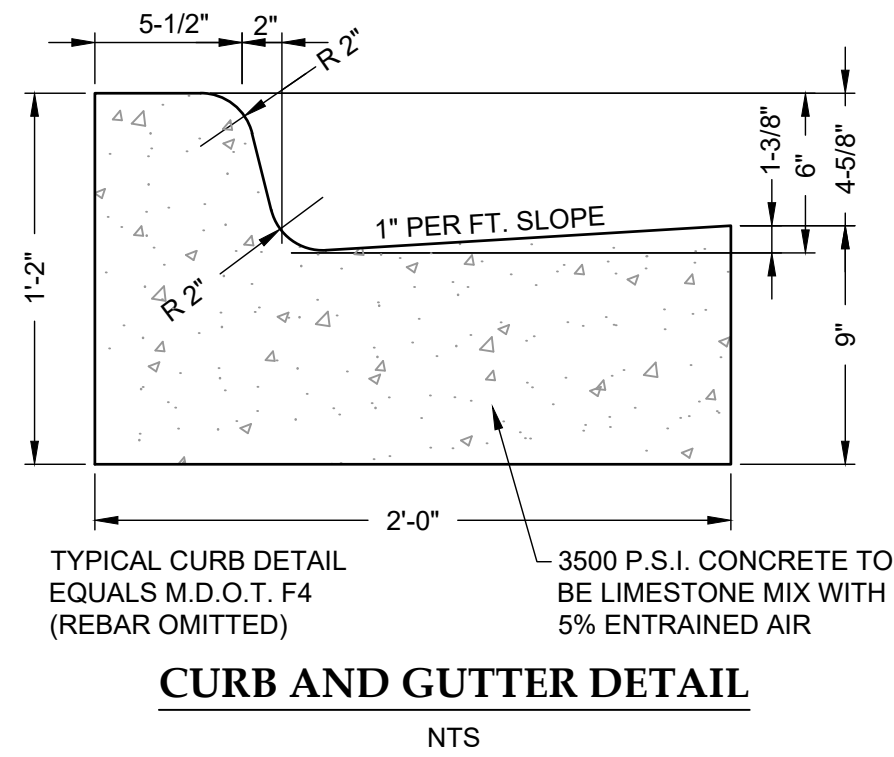
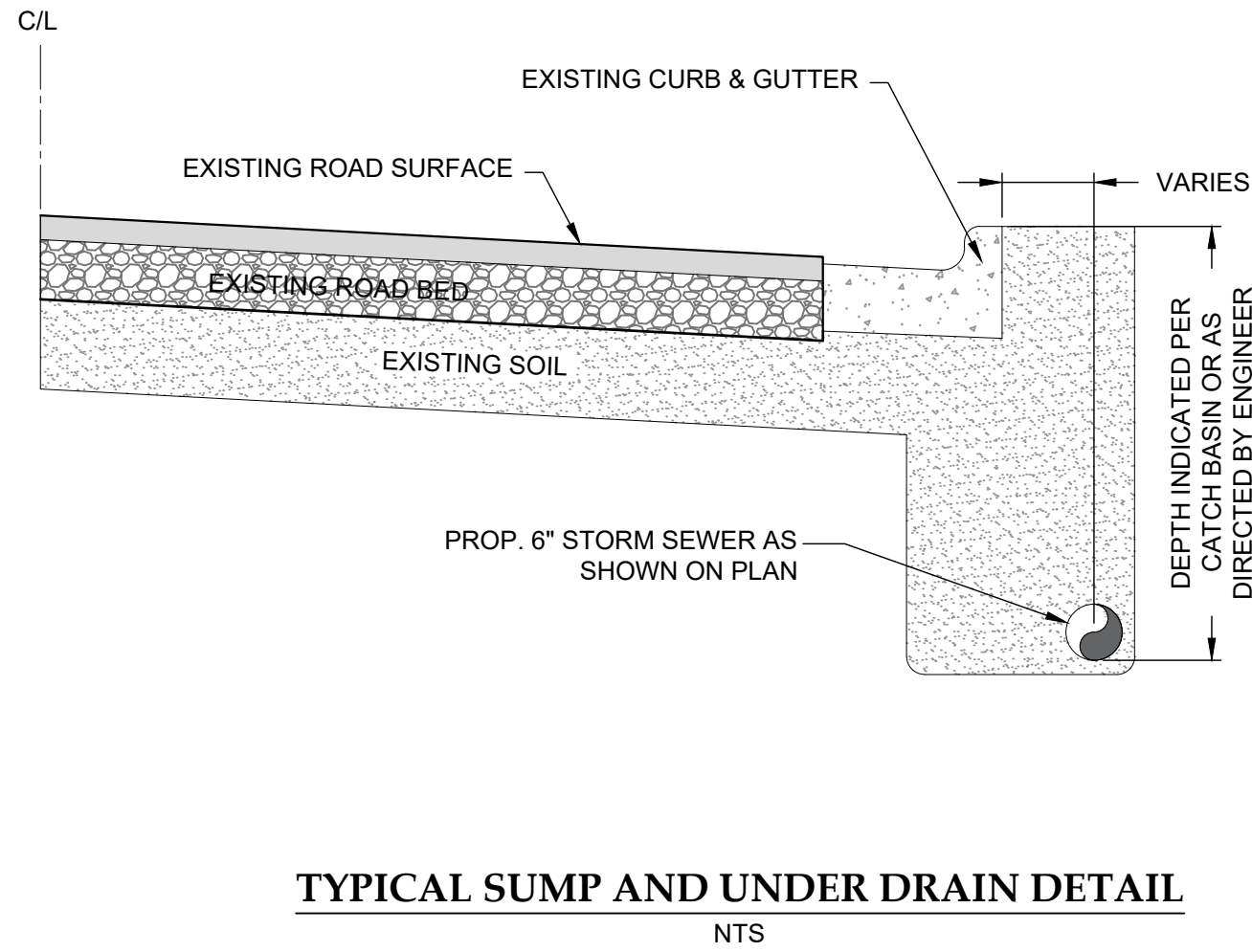
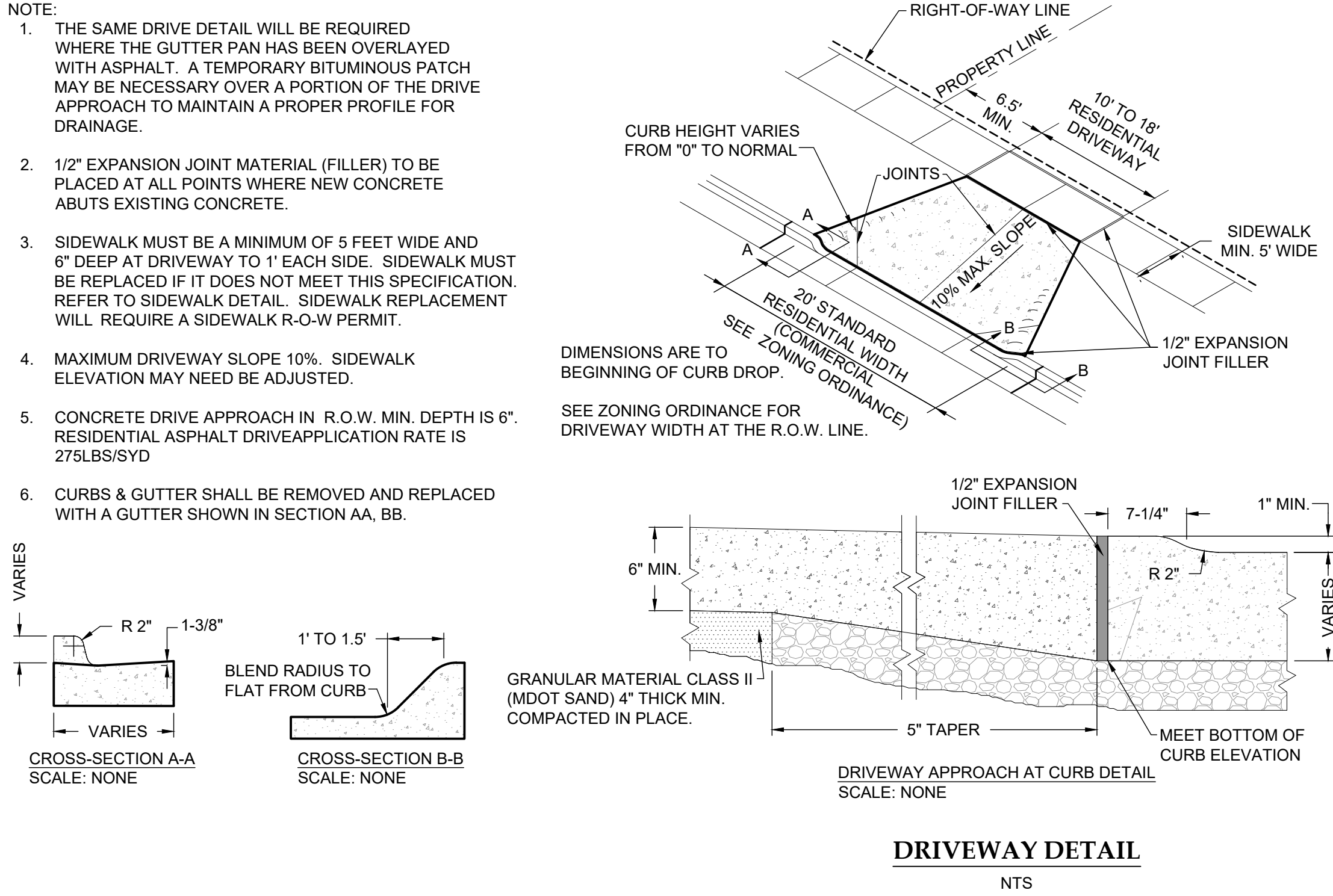
CALL MISS DIG
BEFORE DIGGING UNDERGROUND OR
WORKING NEAR OVERHEAD WIRES.
CALL MISS DIG AT LEAST 3 BUSINESS
DAYS IN ADVANCE OF STARTING YOUR
PROJECT. (800) 482-7171
IT'S THE LAW

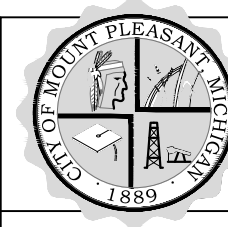


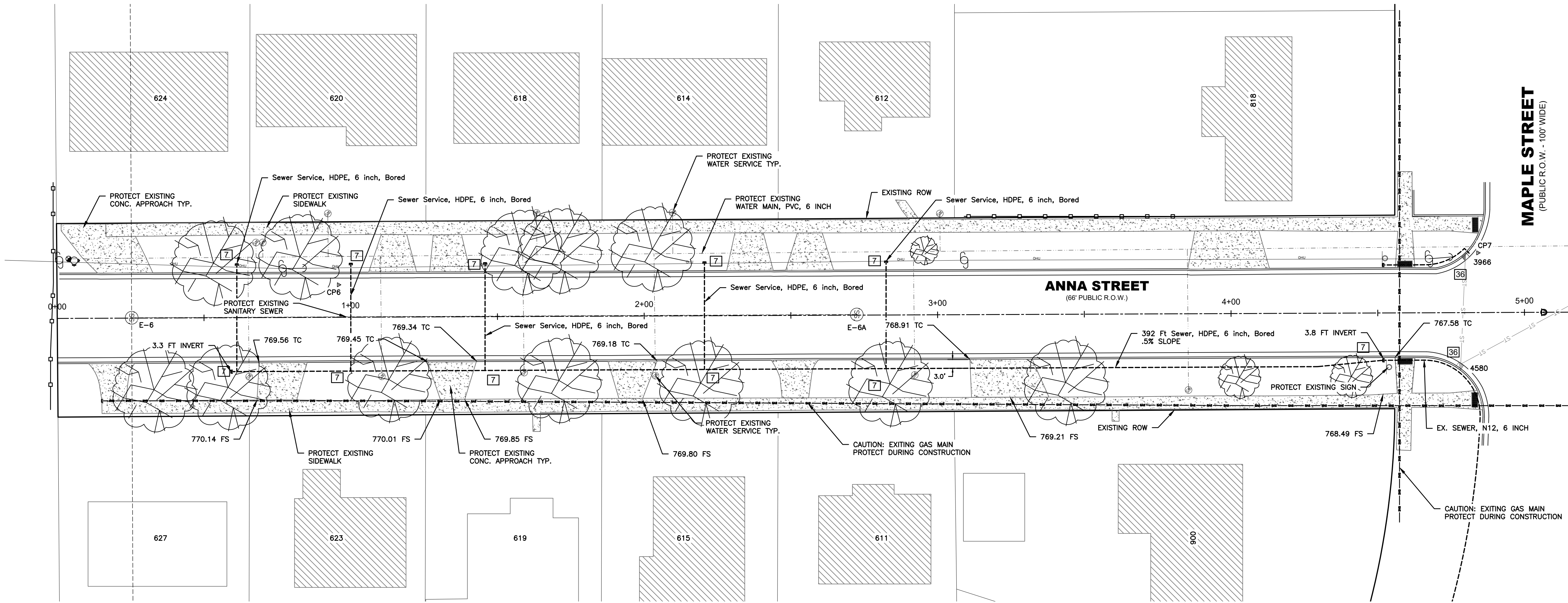
CITY OF MOUNT PLEASANT
DIVISION OF PUBLIC WORKS
320 W. BROADWAY
MT. PLEASANT, MICHIGAN 48858
(989)-779-5401
WWW.MT-PLEASANT.ORG

COVER SHEET			
2023 STORM SEWER EXTENSION			
ANNA STREET			
DESIGN BY ES	CONSTRUCTED		
DRAWN BY ES	DATE OF PLAN JAN 2023		
CHECKED BY ST	SCALE NTS		
APPROVED BY JM	SHEET 1 OF 9 SHEETS		
REVISIONS		DATE/INITIALS	
CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
PLOT DATE:			

- NOTE:
1. THE SAME DRIVE DETAIL WILL BE REQUIRED WHERE THE GUTTER PAN HAS BEEN OVERLAYED WITH ASPHALT. A TEMPORARY BITUMINOUS PATCH MAY BE NECESSARY OVER A PORTION OF THE DRIVE APPROACH TO MAINTAIN A PROPER PROFILE FOR DRAINAGE.
 2. 1/2" EXPANSION JOINT MATERIAL (FILLER) TO BE PLACED AT ALL POINTS WHERE NEW CONCRETE ABUTS EXISTING CONCRETE.
 3. SIDEWALK MUST BE A MINIMUM OF 5 FEET WIDE AND 6" DEEP AT DRIVEWAY TO 1' EACH SIDE. SIDEWALK MUST BE REPLACED IF IT DOES NOT MEET THIS SPECIFICATION. REFER TO SIDEWALK DETAIL. SIDEWALK REPLACEMENT WILL REQUIRE A SIDEWALK R-O-W PERMIT.
 4. MAXIMUM DRIVEWAY SLOPE 10%. SIDEWALK ELEVATION MAY NEED BE ADJUSTED.
 5. CONCRETE DRIVE APPROACH IN R.O.W. MIN. DEPTH IS 6". RESIDENTIAL ASPHALT DRIVEAPPLICATION RATE IS 275LBS/SYD
 6. CURBS & GUTTER SHALL BE REMOVED AND REPLACED WITH A GUTTER SHOWN IN SECTION AA, BB.



		CITY OF MOUNT PLEASANT DIVISION OF PUBLIC WORKS 320 W. BROADWAY MT. PLEASANT, MICHIGAN 48858 (989)-779-5401 WWW.MT-PLEASANT.ORG	
DETAIL SHEET 2023 STORM SEWER EXTENSION ANNA STREET			
DESIGN BY ES	CONSTRUCTED		
DRAWN BY ES	DATE OF PLAN JAN 2023		
CHECKED BY ST	SCALE NTS		
APPROVED BY JM	SHEET 2 OF 9 SHEETS		
REVISIONS		DATE/INITIALS	
CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
PLOT DATE:			



- LEGEND**
- △ CONTROL POINT
 - ⊕ SANITARY MANHOLE
 - ⊕ STORM MANHOLE
 - CATCH BASIN
 - ⊕ FIRE HYDRANT
 - WATER SHUT OFF VALVE
 - CURB STOP
 - UTILITY POLE
 - ⊕ TRAFFIC CONTROL SIGN
 - ⊕ TREE
 - ▨ EX. CONCRETE SURFACE
 - EX. ASPHALT SURFACE
 - ▨ EX. GRAVEL SURFACE
 - ▨ BASEMENT FOUNDATION
 - xxx.xx FS EX. FINISH SURFACE ELEVATION
 - xxx.xx TC EX. TOP OF CURB ELEVATION
 - ⊕ SOIL EROSION KEY NUMBER
 - 7 HYDROSEEDING IN DISTURBED AREAS (TYP)
 - 36 FILTER BAG REQUIRED
 - BM1
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 769.770
STA. 5+48.27
 - BM2
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 768.927
STA. 20+28.50
 - CP1
ELEVATION 766.028
 - CP2
ELEVATION 767.762
 - CP3
ELEVATION 767.561
 - CP4
ELEVATION 767.793
 - CP5
ELEVATION 768.599
 - CP6
ELEVATION 769.168
 - CP7
ELEVATION 766.738

GENERAL CONSTRUCTION NOTES

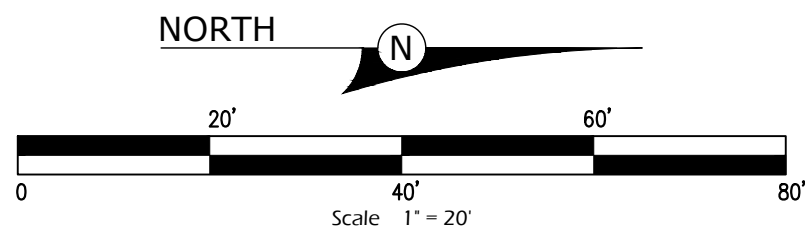
- MOBILIZATION, TRAFFIC CONTROL, TESTING AND OTHER WORK NECESSARY TO COMPLETE THE WORK SHOWN ON THE PLANS AND SPECIFICATIONS ARE INCIDENTAL TO THE UNIT PRICES LISTED ON THE BID PROPOSAL AND WILL NOT BE PAID FOR SEPARATELY.
- CONTRACTOR TO MAINTAIN DRIVEWAY ACCESS EVERY NIGHT, AND THROUGH THE WEEKEND.
- CONTRACTOR TO INSTALL BARRICADES PRIOR TO REMOVALS.
- CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND UTILITY DEPTHS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROTECT EXISTING FENCES, PAVERS, TREES, LIGHTS AND POLES.
- CONTRACTOR TO MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL SEEDING IS ESTABLISHED.
- ALL PAVEMENT, CURB AND DRIVEWAY REMOVALS SHALL BE SAW CUT. PAYMENT INCLUDED IN REMOVAL ITEMS.
- CONTRACTOR TO VERIFY EXISTING STORM INVERTS PRIOR TO CONSTRUCTION.
- ALL STORM INLETS SHALL BE PROTECTED FROM SEDIMENT BY THE USE OF FILTER BAGS DURING THE CONSTRUCTION PROCESS UNTIL ADEQUATE STABILIZATION OF DISTURBED AREAS.
- PROTECT EXISTING WATER, STORM AND SANITARY STRUCTURES.
- CONTRACTOR TO PROTECT THE EXISTING IRRIGATION SYSTEM NEAR THE CURB, IN THE GRASS AND UNDER SIDEWALKS.
- CONTRACTOR MUST WORK WITHIN THE ROAD RIGHT-OF-WAY. SHOULD THE NEED ARISE TO DO WORK OUTSIDE OF THE RIGHT-OF-WAY, THE CONTRACTOR IS RESPONSIBLE FOR GETTING PERMISSION FROM THE PROPERTY OWNER, IN WRITING, AND REPAIR ALL DAMAGE AS A RESULT OF CONSTRUCTION.
- SEWER CAP TO BE INSTALLED PERMANENTLY AND BE AIR TIGHT.
- SEWER LINE MUST HAVE POSITIVE DRAINAGE AT ALL LOCATIONS.

STORM SEWER QUANTITIES

392 FT	Sewer, HDPE, 6 inch, Bored
5 EA	Sewer Service, 6 inch, Bored
6 EA	Cap, 6 inch
1 EA	Sewer Connection, 6 inch
2 EA	Erosion Control, Filter Bag

ANNA STREET STORM SEWER EXTENSION

SCALE: 1" = 20'



EXISTING DRAINAGE STRUCTURES

E-6 EX. SSMH
RIM = 769.51
8" PVC N = 761.06
12" VCP W = 760.91
8" RCP S = 761.21
12" VCP E = 760.91

E-6A EX. SSMH
RIM = 768.76
8" PVC S = 762.01

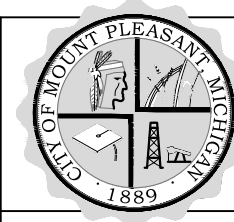
3966 EX. CB
RIM = 766.62
12" N12 E = 762.87
6" PVC SW = 763.37
4' DIA. STRUC.

4580 EX. CB
RIM = 766.54
12" N12 NW = 762.69
12" N12 W = 762.69
6" PVC SE = 763.24
4' DIA. STRUC.

CALL MISS DIG

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IT'S THE LAW



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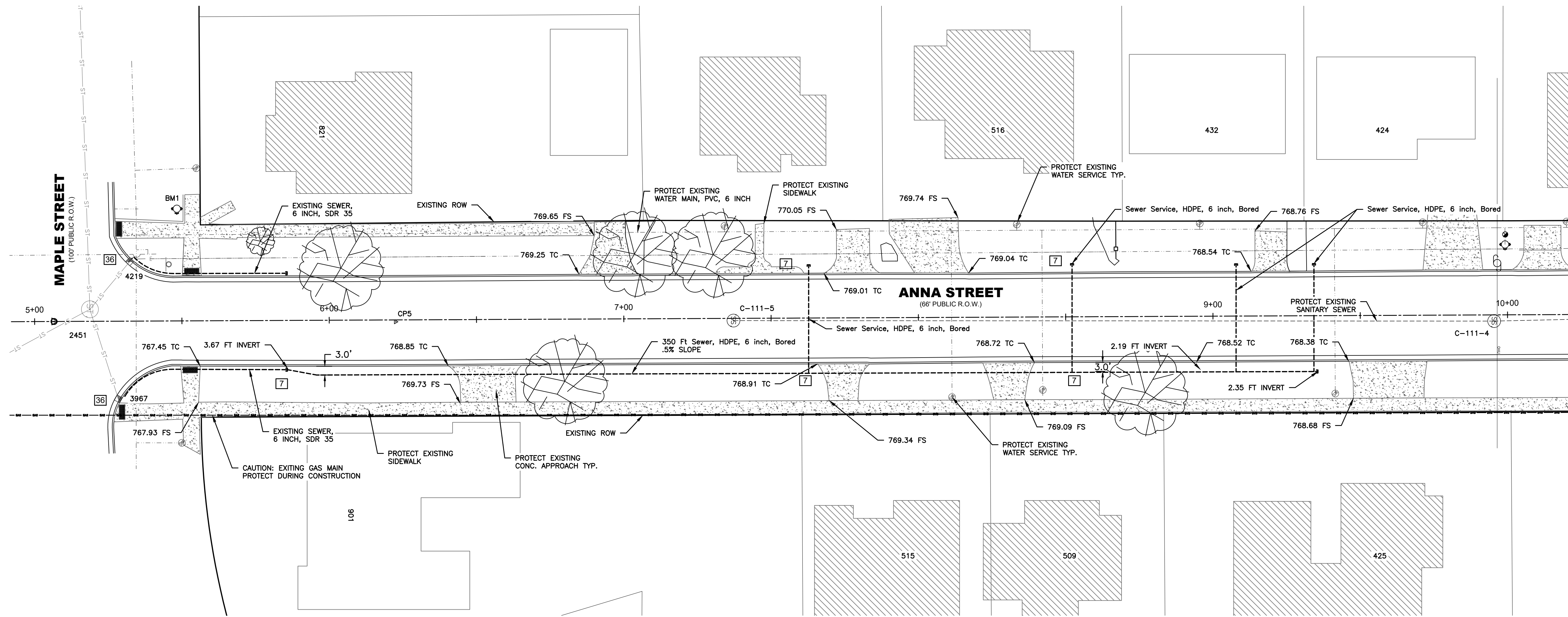
CONSTRUCTION SHEET
2023 STORM SEWER EXTENSION
ANNA STREET (Sta. 0+00 - 5+00)

DESIGN BY ES	CONSTRUCTED
DRAWN BY ES	DATE OF PLAN JAN 2023
CHECKED BY ST	SCALE 1" = 20'
APPROVED BY JM	SHEET 3 OF 9 SHEETS

REVISIONS _____ DATE/INITIALS _____

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
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PLOT DATE:



- LEGEND**
- △ CONTROL POINT
 - ⊕ SANITARY MANHOLE
 - ⊕ STORM MANHOLE
 - CATCH BASIN
 - ⊕ FIRE HYDRANT
 - ⊕ WATER SHUT OFF VALVE
 - ⊕ CURB STOP
 - ⊕ UTILITY POLE
 - ⊕ TRAFFIC CONTROL SIGN
 - ⊕ TREE
 - EX. CONCRETE SURFACE
 - EX. ASPHALT SURFACE
 - EX. GRAVEL SURFACE
 - BASEMENT FOUNDATION
 - XXX.XX FS EX. FINISH SURFACE ELEVATION
 - XXX.XX TC EX. TOP OF CURB ELEVATION
 - XX SOIL EROSION KEY NUMBER
 - 7 HYDROSEEDING IN DISTURBED AREAS (TYP)
 - 36 FILTER BAG REQUIRED

BM1
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 769.770
STA. 5+48.27

BM2
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 768.927
STA. 20+28.50

CP1
ELEVATION 766.028

CP2
ELEVATION 767.762

CP3
ELEVATION 767.561

CP4
ELEVATION 767.793

CP5
ELEVATION 768.599

CP6
ELEVATION 769.168

CP7
ELEVATION 766.738

ANNA STREET STORM SEWER EXTENSION

SCALE: 1" = 20'

STORM SEWER QUANTITIES

350 FT	Sewer, HDPE, 6 inch, Bored
4 EA	Sewer Service, 6 inch, Bored
5 EA	Cap, 6 inch
1 EA	Sewer Connection, 6 inch
2 EA	Erosion Control, Filter Bag

EXISTING DRAINAGE STRUCTURES

2451 EX. STMH
RIM = 767.03
12" N12 NW = 763.18
30" RCP W = 760.03
12" N12 SE = 761.33
12" N12 NE = 761.81

3967 EX. CB
RIM = 766.47
12" N12 SW = 762.47
6" PVC NE = 763.30
4' DIA STRUCTURE

4219 EX. CB
RIM = 766.69
12" N12 SE = 763.19
6" PVC NW = 763.24
4' DIA. STRUCTURE

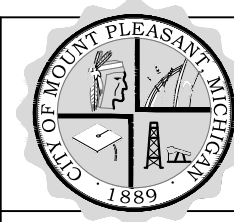
C-111-5 EX. SSMH
RIM = 768.85
8" PVC N = 761.25

C-111-4 EX. SSMH
RIM = 768.16
8" PVC S = 760.41
8" PVC N = 760.41

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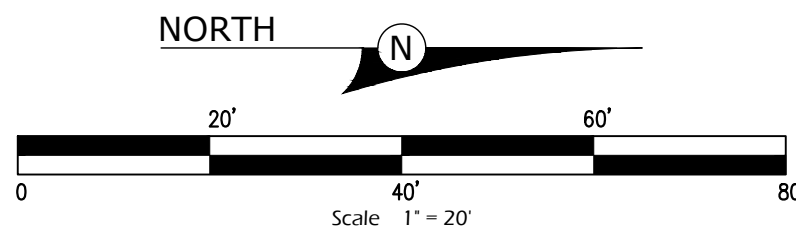
CONSTRUCTION SHEET 2023 STORM SEWER EXTENSION ANNA STREET (Sta. 5+00-10+00)

DESIGN BY ES	CONSTRUCTED
DRAWN BY ES	DATE OF PLAN JAN 2023
CHECKED BY ST	SCALE 1" = 20'
APPROVED BY JM	SHEET 4 OF 9 SHEETS

REVISIONS DATE/INITIALS

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
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PLOT DATE:



DRAWING PATH: J:\Construction\23 Const\2023 STORM SEWER EXT\DRAWINGS\2023 STORM SEWER EXT - ANNA STREET.dwg

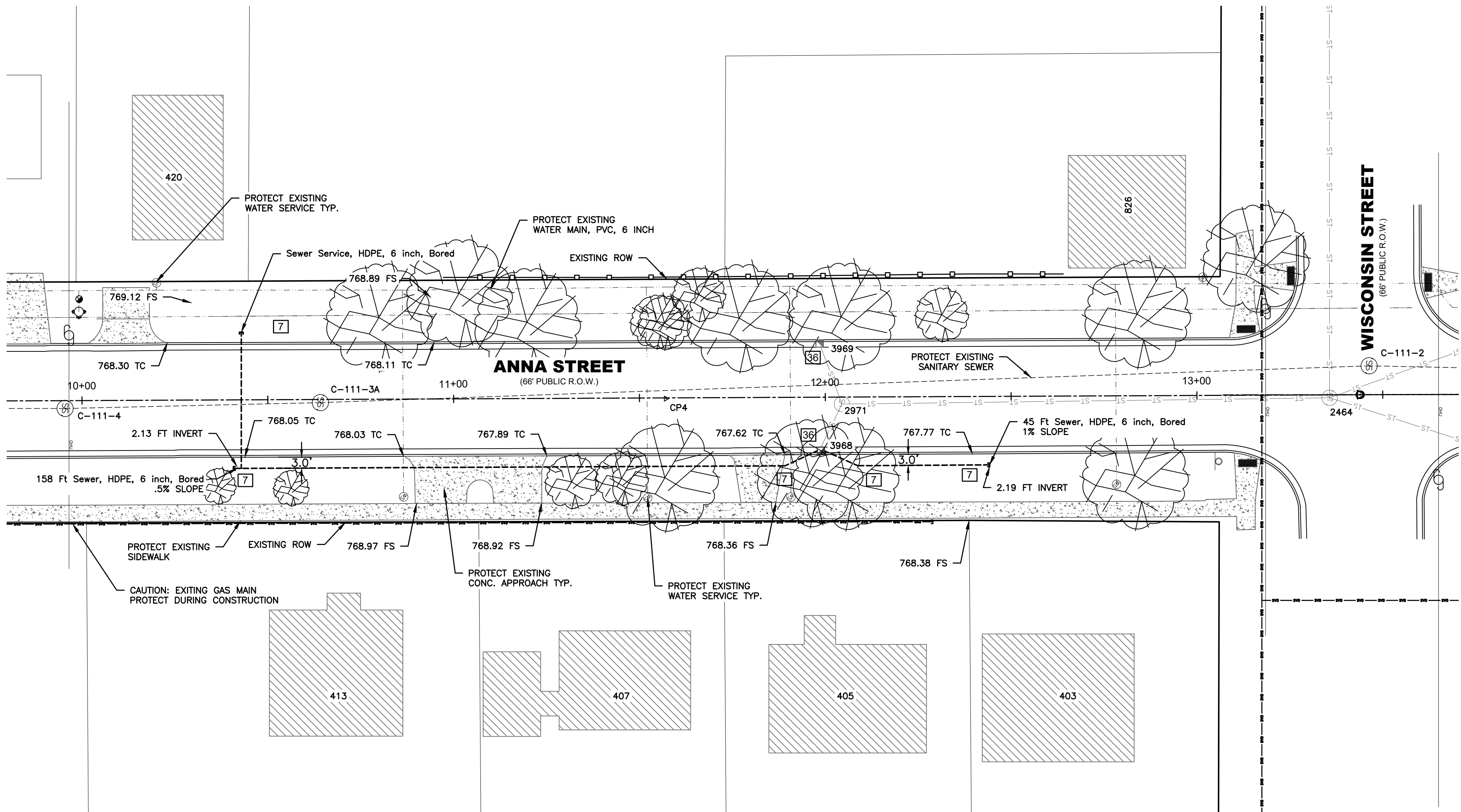
FED. ITEM NO.

FED. PROJECT:

JOB NO.: 203-468-000-703.000

CONTROL SECTION: CAPITAL

2023 STORM SEWER EXT PROJECT



ANNA STREET STORM SEWER EXTENSION

SCALE: 1" = 20'

STORM SEWER QUANTITIES

195 FT	Sewer, HDPE, 6 inch, Bored
1 EA	Sewer Service, 6 inch, Bored
3 EA	Cap, 6 inch
2 EA	Sewer Tap, 6 inch
2 EA	Erosion Control, Filter Bag

EXISTING DRAINAGE STRUCTURES

C-111-4 EX. SSMH
RIM = 768.16
8" PVC S = 760.41
8" PVC N = 760.41

C-111-3A EX. SSMH
RIM = 767.98
8" PVC N = 760.25
8" PVC W = 760.38
8" PVC S = 760.25

3968 EX. CB
RIM = 767.24
8" VCP NW = 765.03
6" PROPOSED HDPE S = 765.13
6" PROPOSED HDPE N = 765.13
2' DIA STRUCTURE

3969 EX. CB
RIM = 767.34
6" VCP NE = 765.19
2' DIA. STRUCTURE

2971 EX. STMH
RIM = 767.79
12" RCP N = 763.89
6" VCP SW = 764.89
8" VCP SE = 764.99
4' DIA. STRUCTURE

2464 EX. STMH
RIM = 768.34
12" RCP NW = 763.74
12" RCP W = 763.44
12" RCP S = 763.54
10" RCP NE = 763.74
4' DIA. STRUCTURE

C-111-2 EX. SSMH
RIM = 768.25
8" PVC S = 769.15

LEGEND

- △ CONTROL POINT
- ⊙66 SANITARY MANHOLE
- ⊙67 STORM MANHOLE
- ▣ CATCH BASIN
- ⦿ FIRE HYDRANT
- ⦿ WATER SHUT OFF VALVE
- ⦿ CURB STOP
- ⦿ UTILITY POLE
- ⦿ TRAFFIC CONTROL SIGN
- ⦿ TREE
- ▨ EX. CONCRETE SURFACE
- ▨ EX. ASPHALT SURFACE
- ▨ EX. GRAVEL SURFACE
- ▨ BASEMENT FOUNDATION
- xxx.xx FS EX. FINISH SURFACE ELEVATION
- xxx.xx TC EX. TOP OF CURB ELEVATION
- ⦿ SOIL EROSION KEY NUMBER
- 7 HYDROSEEDING IN DISTURBED AREAS (TYP)
- 36 FILTER BAG REQUIRED

BM1
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 769.770
STA. 5+48.27

BM2
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 768.927
STA. 20+28.50

CP1
ELEVATION 766.028

CP2
ELEVATION 767.762

CP3
ELEVATION 767.561

CP4
ELEVATION 767.793

CP5
ELEVATION 768.599

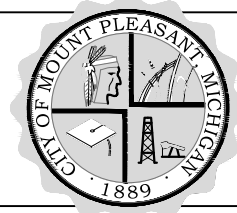
CP6
ELEVATION 769.168

CP7
ELEVATION 766.738

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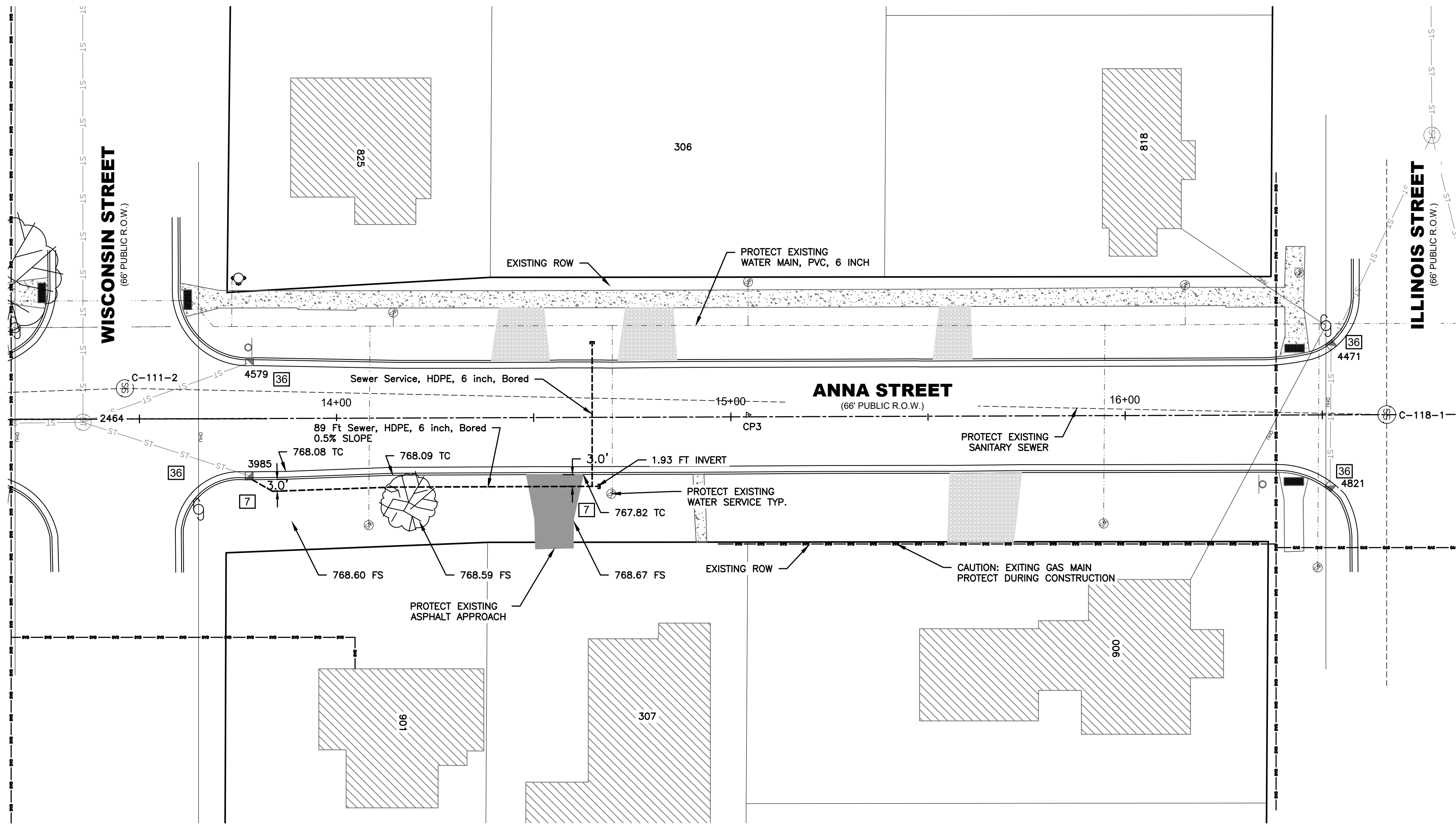
CONSTRUCTION SHEET
2023 STORM SEWER EXTENSION
ANNA STREET (Sta. 10+00-13+50)

DESIGN BY ES	CONSTRUCTED
DRAWN BY ES	DATE OF PLAN JAN 2023
CHECKED BY ST	SCALE 1" = 20'
APPROVED BY JM	SHEET 5 OF 9 SHEETS

REVISIONS DATE/INITIALS

CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
---------------	---------	--------------	---------------

PLOT DATE:



ANNA STREET STORM SEWER EXTENSION

SCALE: 1" = 20'

STORM SEWER QUANTITIES

89 FT	Sewer, HDPE, 6 inch, Bored
1 EA	Cap, 6 inch
1 EA	Sewer Tap, 6 inch
2 EA	Erosion Control, Filter Bag

EXISTING DRAINAGE STRUCTURES

2464 EX. STMH
RIM = 768.34
12" RCP NW = 763.74
12" RCP W = 763.44
12" RCP S = 763.54
10" RCP NE = 763.74
4' DIA. STRUCTURE

C-111-2 EX. SSMH
RIM = 768.25
8" PVC S = 759.15
8" PVC N = 759.15

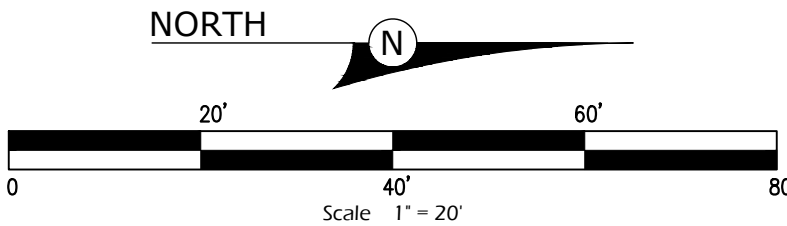
3985 EX. CB
RIM = 767.55
8" RCP W = 765.35
6" PROPOSED HDPE N = 765.45
2' DIA. STRUCTURE

4579 EX. CB
RIM = 767.57
10" RCP SE = 765.22
2' DIA. STRUCTURE

4821 EX. CB
RIM = 766.50
8" RCP W = 763.75
2' DIA STRUCTURE

4471 EX. CB
RIM = 766.29
8" RCP E = 763.69
8" RCP SW = 762.69
2' DIA. STRUCTURE

C-118-1 EX. SSMH
RIM = 767.19
8" PVC S = 758.29
8" PVC N = 758.296



- LEGEND**
- △ CONTROL POINT
 - ⊕66 SANITARY MANHOLE
 - ⊕ST STORM MANHOLE
 - CATCH BASIN
 - ⊕ FIRE HYDRANT
 - ⊕ WATER SHUT OFF VALVE
 - ⊕ CURB STOP
 - ⊕ UTILITY POLE
 - ⊕ TRAFFIC CONTROL SIGN
 - ⊕ TREE
 - EX. CONCRETE SURFACE
 - EX. ASPHALT SURFACE
 - EX. GRAVEL SURFACE
 - BASEMENT FOUNDATION
 - xxx.xx FS EX. FINISH SURFACE ELEVATION
 - xxx.xx TC EX. TOP OF CURB ELEVATION
 - ⊕ SOIL EROSION KEY NUMBER
 - 7 HYDROSEEDING IN DISTURBED AREAS (TYP)
 - 36 FILTER BAG REQUIRED

BM1
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 769.770
STA. 5+48.27

BM2
LOCATION ON NW BOLT ON FIRE HYD.
ELEVATION 768.927
STA. 20+28.50

CP1
ELEVATION 766.028

CP2
ELEVATION 767.762

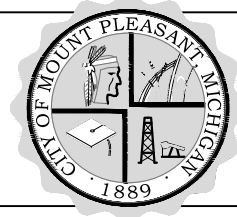
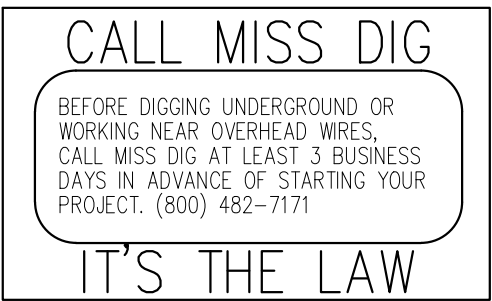
CP3
ELEVATION 767.561

CP4
ELEVATION 767.793

CP5
ELEVATION 768.599

CP6
ELEVATION 769.168

CP7
ELEVATION 766.738



CITY OF MOUNT PLEASANT
DIVISION OF PUBLIC WORKS
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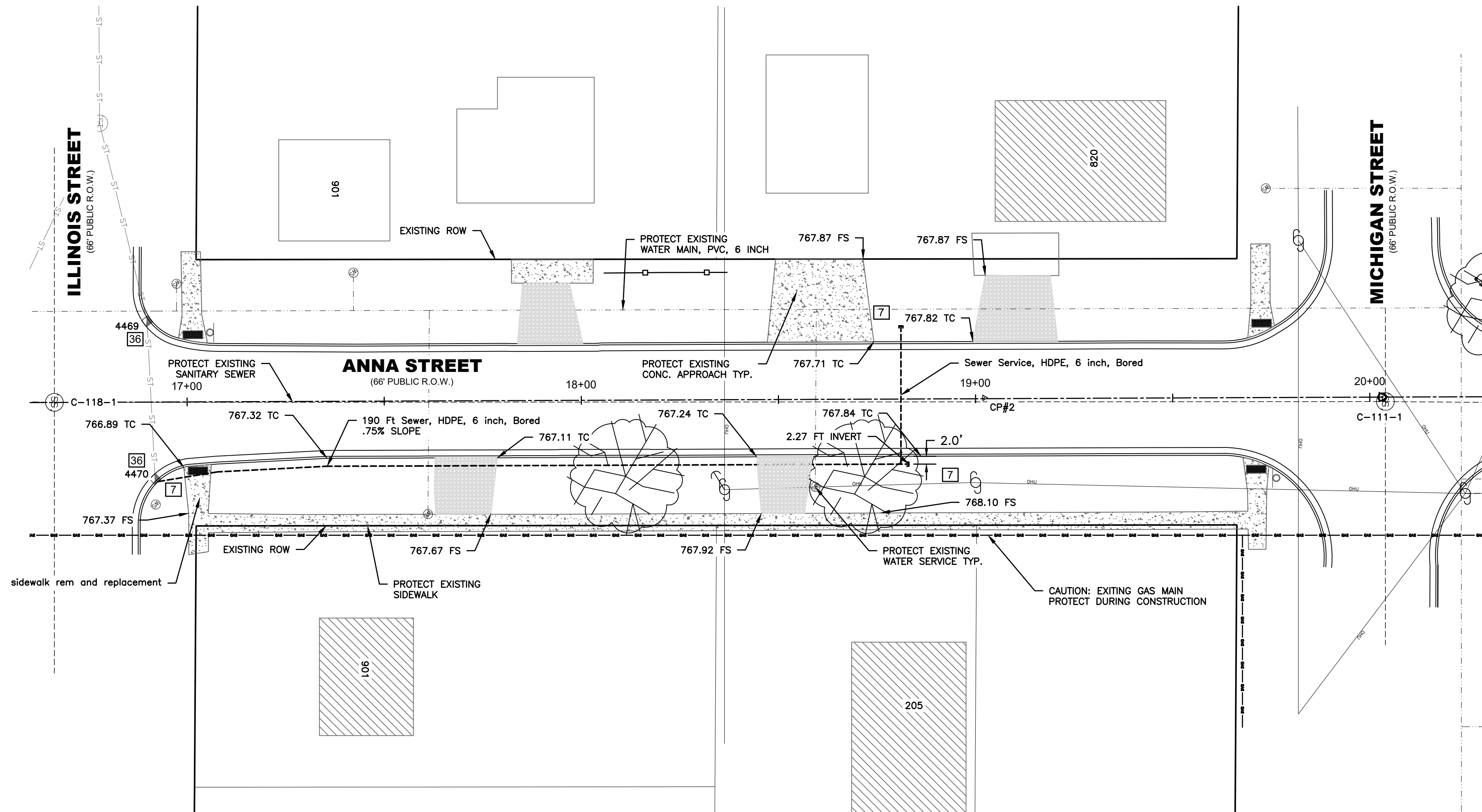
CONSTRUCTION SHEET
2023 STORM SEWER EXTENSION
ANNA STREET (Sta.13+50-16+50)

DESIGN BY ES	CONSTRUCTED
DRAWN BY ES	DATE OF PLAN JAN 2023
CHECKED BY ST	SCALE 1" = 20'
APPROVED BY JM	SHEET 6 OF 9 SHEETS

REVISIONS	DATE/INITIALS
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CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
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PLOT DATE:



ANNA STREET STORM SEWER EXTENSION

SCALE: 1" = 20'

STORM SEWER QUANTITIES

190 FT	Sewer, HDPE, 6 inch, Bored
1 EA	Sewer Service, 6 inch, Bored
2 EA	Cap, 6 inch
1 EA	Sewer Tap, 6 inch
2 EA	Erosion Control, Filter Bag

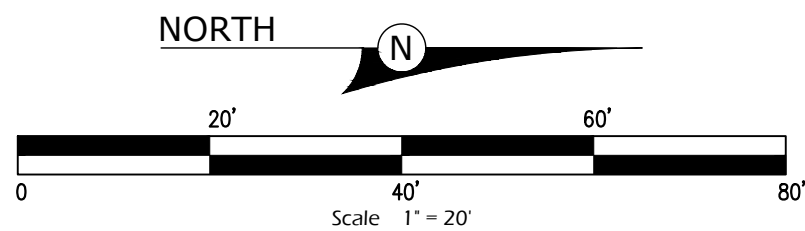
EXISTING DRAINAGE STRUCTURES

C-118-1 EX. SSMH
RIM = 767.19
8" PVC S = 758.29
8" PVC N = 758.296

4469 EX. CB
RIM = 766.39
8" RCP E = 763.69
8" RCP SW = 763.39
2' DIA. STRUCTURE

4470 EX. CB
RIM = 766.34
8" RCP W = 764.14
6" PROPOSED HDPE N = 764.24
2' DIA. STRUCTURE

C-111-1 EX. SSMH
RIM = 768.18
8" PVC S = 757.33
8" PVC N = 757.33



- LEGEND**
- △ CONTROL POINT
 - ⊕ SANITARY MANHOLE
 - ⊕ STORM MANHOLE
 - CATCH BASIN
 - ⊕ FIRE HYDRANT
 - ⊕ WATER SHUT OFF VALVE
 - ⊕ CURB STOP
 - ⊕ UTILITY POLE
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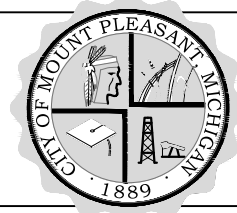
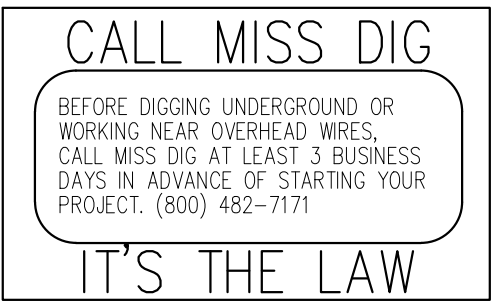
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ELEVATION 767.561

CP4
ELEVATION 767.793

CP5
ELEVATION 768.599

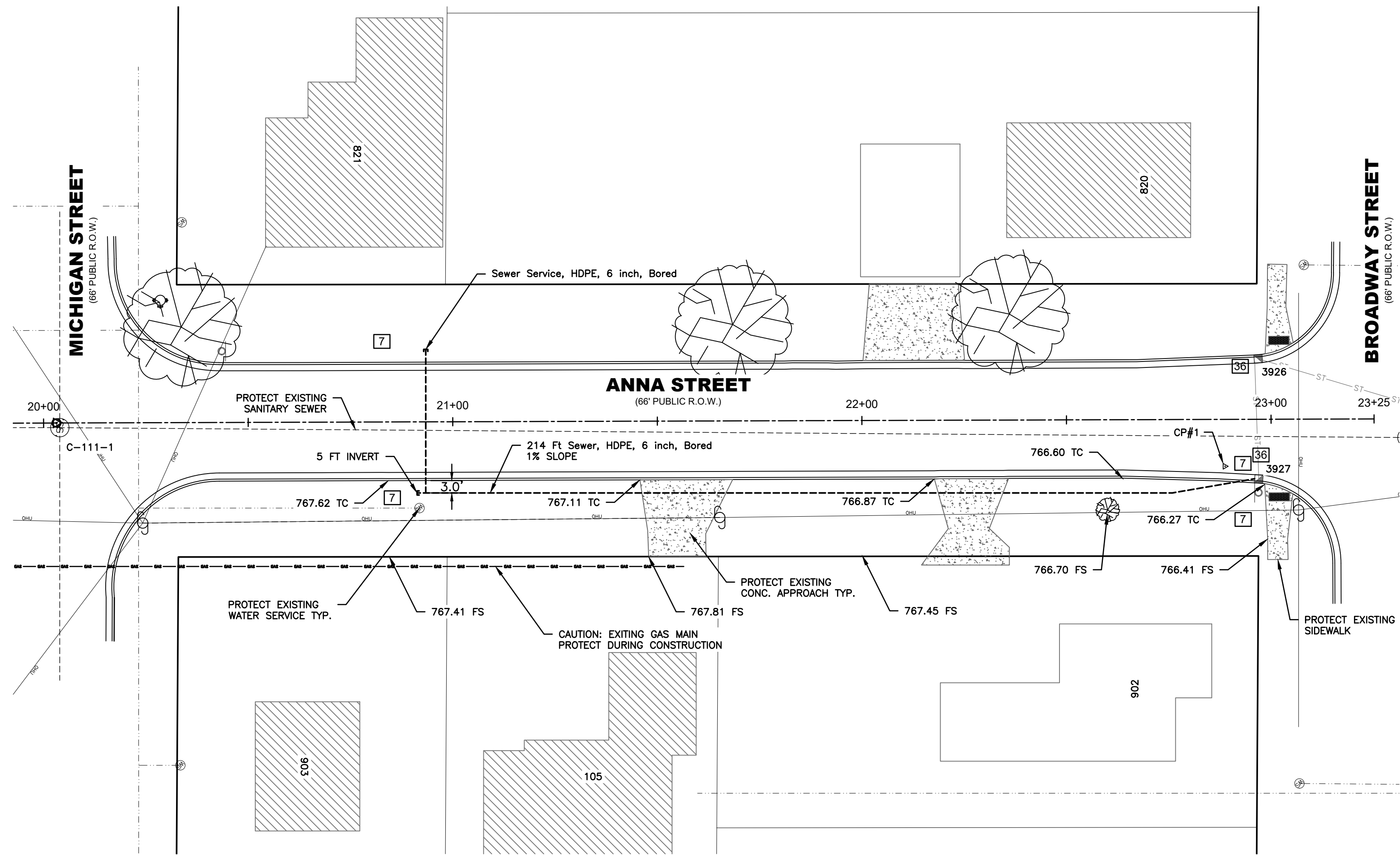
CP6
ELEVATION 769.168

CP7
ELEVATION 766.738



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CONSTRUCTION SHEET			
2023 STORM SEWER EXTENSION			
ANNA STREET (Sta. 16+50-20+00)			
DESIGN BY ES	CONSTRUCTED		
DRAWN BY ES	DATE OF PLAN JAN 2023		
CHECKED BY ST	SCALE 1" = 20'		
APPROVED BY JM	SHEET 7 OF 9 SHEETS		
REVISIONS		DATE/INITIALS	
CONTROL SECT.	JOB NO.	FED. PROJECT	FED. ITEM NO.
PLOT DATE:			



ANNA STREET STORM SEWER EXTENSION

SCALE: 1" = 20'

STORM SEWER QUANTITIES

214 FT	Sewer, HDPE, 6 inch, Bored
1 EA	Sewer Service, 6 inch, Bored
2 EA	Cap, 6 inch
1 EA	Sewer Tap, 6 inch
2 EA	Erosion Control, Filter Bag

EXISTING DRAINAGE STRUCTURES

C-111-1 EX. SSMH
RIM = 768.18
8" PVC S = 757.33
8" PVC N = 757.33

3926 EX. CB
RIM = 765.77
12" RCP NE = 760.57
12" RCP E = 760.67
4' DIA STRUCTURE

3927 EX. CB
RIM = 765.78
12" RCP 4 = 760.68
6" PROPOSED HDPE S = 760.78
2' DIA. STRUCTURE

LEGEND

- △ CONTROL POINT
- ⊙66 SANITARY MANHOLE
- ⊙57 STORM MANHOLE
- ▣ CATCH BASIN
- ⦿ FIRE HYDRANT
- ⦿ WATER SHUT OFF VALVE
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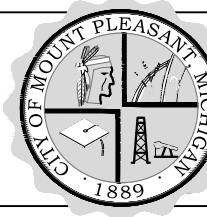
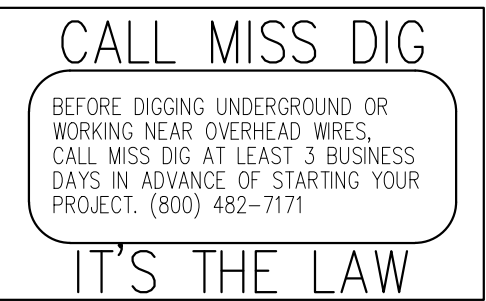
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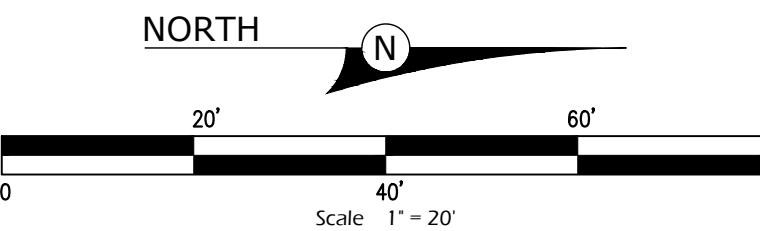
**CONSTRUCTION SHEET
2023 STORM SEWER EXTENSION
ANNA STREET (Sta. 20+00-23+25)**

DESIGN BY ES	CONSTRUCTED
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CHECKED BY ST	SCALE 1" = 20'
APPROVED BY JM	SHEET 8 OF 9 SHEETS

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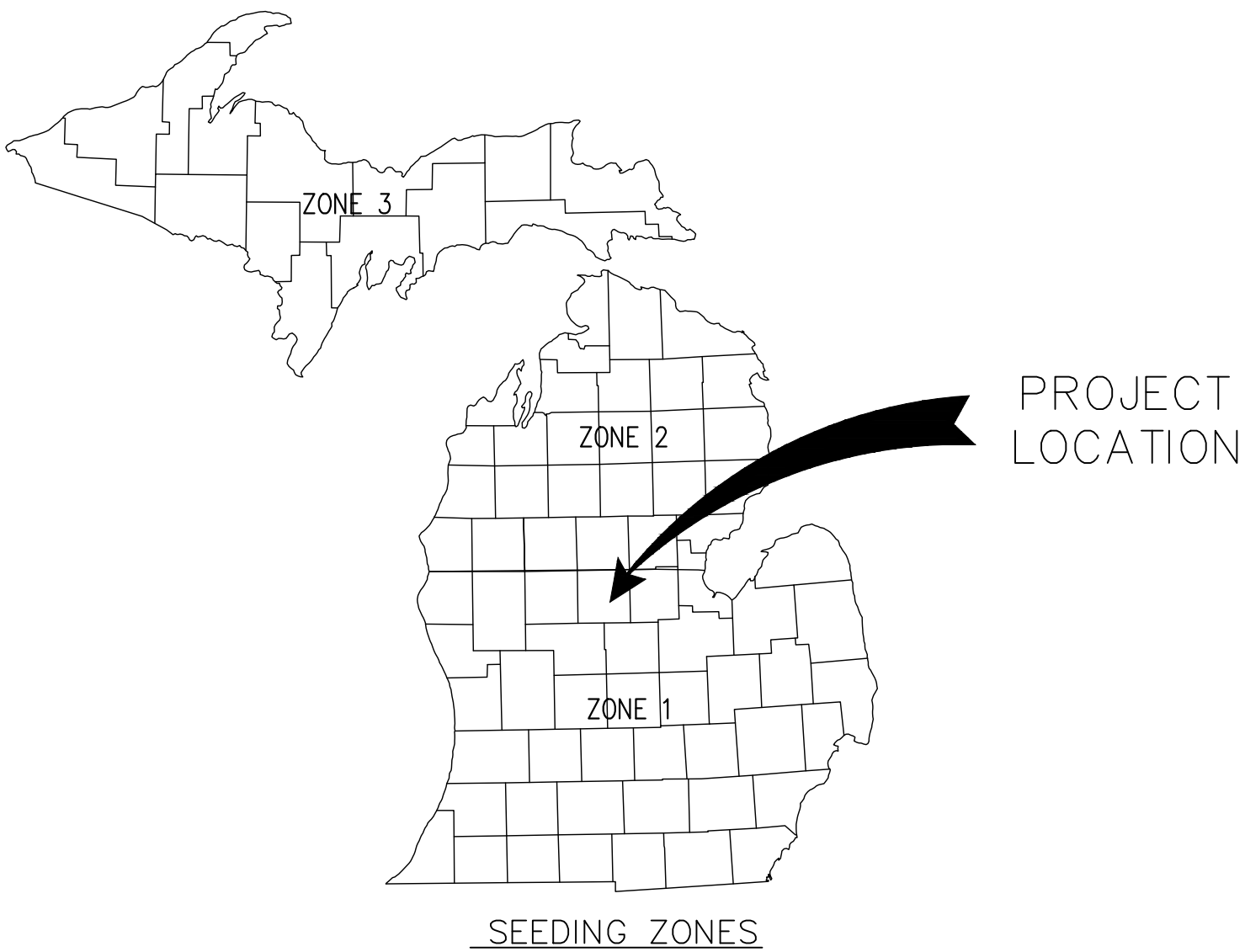


MICHIGAN UNIFIED KEYING SYSTEM

SOIL EROSION SEDIMENTATION CONTROL MEASURES

* INDICATES APPLICABILITY OF A SPECIFIC CONTROL MEASURE TO ONE OR MORE OF THE SEVEN PROBLEM AREAS

			SLOPES STREAMS AND WATERWAYS SURFACE DRAINAGEWAYS ENCLOSED DRAINAGE (Inlet & Outfall Control) LARGE FLAT SURFACE AREAS BORROW AND STOCKPILE AREAS ADJACENT PROPERTIES										SLOPES STREAMS AND WATERWAYS SURFACE DRAINAGEWAYS ENCLOSED DRAINAGE (Inlet & Outfall Control) LARGE FLAT SURFACE AREAS BORROW AND STOCKPILE AREAS ADJACENT PROPERTIES						
KEY	DETAIL	CHARACTERISTICS	A	B	C	D	E	F	G	KEY	DETAIL	CHARACTERISTICS	A	B	C	D	E	F	G
1	STRIPPING & STOCKPILING TOPSOIL	TOPSOIL MAY BE STOCKPILED ABOVE BORROW AREAS TO ACT AS A DIVERSION. STOCKPILE SHOULD BE TEMPORARILY SEED.	*				*	*		28	DROP SPILLWAY	SLOWS VELOCITY OF FLOW, REDUCES EROSION CAPACITY		*	*				
2	SELECTIVE GRADING & SHAPING	WATER CAN BE DIVERTED TO MINIMIZE EROSION. FLATTER SLOPES EASE EROSION PROBLEMS.	*				*	*	*	29	PIPE DROP	REDUCES RUNOFF VELOCITY. REMOVES SEDIMENT AND TURBIDITY. CAN BE DESIGNED TO HANDLE LARGE VOLUMES OF FLOW			*				
3	GRUBBING OMITTED	SAVES COST OF GRUBBING, PROVIDES NEW SPROUTS, RETAINS EXISTING ROOT MAT SYSTEM, REDUCES WIND FALL AT NEW FOREST EDGE. DISCOURAGES EQUIPMENT ENTRANCE	*				*		*	30	PIPE SPILLWAY	REMOVES SEDIMENT AND TURBIDITY FROM RUNOFF. MAY BE PART OF PERMANENT EROSION CONTROL PLAN			*				
4	VEGETATIVE STABILIZATION	MAY UTILIZE A VARIETY OF PLANT MATERIAL. STABILIZES SOIL. SLOWS RUNOFF VELOCITY. FILTERS SEDIMENT FROM RUNOFF	*	*	*		*	*	*	31	ENERGY DISSIPATER	SLOWS RUNOFF VELOCITY TO NON-EROSIVE LEVEL. PROMPTS SEDIMENT COLLECTION FROM RUNOFF	*		*	*			
5	SEEDING	INEXPENSIVE AND VERY EFFECTIVE. STABILIZES SOIL. THUS MINIMIZING EROSION. PERMITS RUNOFF TO INFILTRATE SOIL. REDUCES RUNOFF VOLUME. SHOULD INCLUDE PREPARED TOPSOIL BED	*		*		*	*	*	32	LEVEL SPREADER	CONVERTS COLLECTED CHANNEL, OR PIPE FLOW BACK TO SHEET FLOW. AVOIDS CHANNEL EROSION AND CONSTRUCTION OFF PROJECT SITE. SIMPLE TO CONSTRUCT			*				
6	SEEDING WITH MULCH AND/OR MATTING	FACILITATES ESTABLISHMENT OF VEGETATIVE COVER. EFFECTIVE FOR DRAINAGEWAYS WITH LOW VELOCITY. EASY TO PLACE IN SMALL QUANTITIES BY UNEXPERIENCED PERSONNEL. SHOULD INCLUDE PREPARED TOPSOIL BED	*		*		*	*	*	33	SEDIMENTATION TRAP	MAY BE CONSTRUCTED OF A VARIETY OF MATERIALS. TRAPS SEDIMENT AND TURBIDITY. EASY TO CONSTRUCT AND EXPANDED AS NEEDED		*	*				
7	HYDRO-SEEDING	EFFECTIVE ON LARGE AREAS. MULCH TENDING ABOUT USED TO PROVIDE IMMEDIATE PROTECTION UNTIL GRASS IS ROOTED. SHOULD INCLUDE PREPARED TOPSOIL BED	*				*	*	*	34	SEDIMENT BASIN	TRAPS SEDIMENT. RELEASES RUNOFF AT NON-EROSIVE RATES. CONTROLS RUNOFF AT SYSTEM OUTLETS. CAN BE VERTICAL, HORIZONTAL		*	*	*			
8	SODDING	PROVIDES IMMEDIATE PROTECTION. CAN BE USED IN STEEP SLOPES WHERE SEED MAY BE DIFFICULT TO ESTABLISH. EASY TO PLACE. MAY BE REPAIRED IF DAMAGED. SHOULD INCLUDE PREPARED TOPSOIL BED	*		*		*	*	*	35	STORM SEWER	SYSTEM REMOVES COLLECTED RUNOFF FROM SITE, PARTICULARLY FROM PAVED AREAS. CAN ACCEPT LARGE CONCENTRATIONS OF RUNOFF. CONDUCTS RUNOFF TO MUNICIPAL SEWER SYSTEM OR STABILIZED OUTFALL LOCATION. USE CATCH BASINS TO COLLECT SEDIMENT					*		*
9	VEGETATIVE BUFFER STRIP	SLOWS RUNOFF VELOCITY. FILTERS SEDIMENT FROM RUNOFF. REDUCES VOLUME OF RUNOFF ON SLOPES	*	*					*	36	CATCH BASIN, DRAIN INLET	COLLECTS HIGH VELOCITY CONCENTRATED RUNOFF. MAY USE FILTER OR CATCH BASIN					*		*
10	MULCHING	USED ALONE TO PROTECT EXPOSED AREAS FOR SHORT PERIODS. PROTECTS SOIL FROM IMPACT OF FALLING RAIN. PRESERVES SOIL MOISTURE AND PROTECTS GERMINATING SEED FROM TEMPERATURE EXTREMES	*				*	*		37	SOD FILTER	INEXPENSIVE AND EASY TO CONSTRUCT. PROVIDES IMMEDIATE PROTECTION. PROTECTS AREAS AROUND INLETS FROM EROSION				*			
11	ROUGHENED SURFACE	REDUCES VELOCITY AND INCREASES INFILTRATION RATES. COLLECTS SEDIMENT. HOLDS WATER, SEED, AND MULCH BETTER THAN SMOOTH SURFACES	*				*		*	38	STRAW BALE FILTER	INEXPENSIVE AND EASY TO CONSTRUCT. MAY BE USED IN CONJUNCTION WITH SNOW FENCE FOR ADDED STABILITY				*			*
12	COMPACTION	HELPS HOLD SOIL IN PLACE, MAKING EXPOSED AREAS LESS VULNERABLE TO EROSION	*				*			39	ROCK FILTER	CAN UTILIZE MATERIAL FOUND ON SITE. EASY TO CONSTRUCT. FILTERS SEDIMENT FROM RUNOFF				*			*
13	RIPPRAP, RUBBLE, CAGIONS	USED WHERE VEGETATION IS NOT EASILY ESTABLISHED. EFFECTIVE FOR HIGH VELOCITIES OR HIGH CONCENTRATIONS. PERMITS RUNOFF TO INFILTRATE SOIL. DISSIPATES ENERGY FLOW AT SYSTEM OUTLETS	*	*	*					40	INLET SEDIMENT TRAP	EASY TO SHAPE. COLLECTS SEDIMENT. MAY BE CLEANED AND EXPANDED AS NEEDED				*			
14	AGGREGATE COVER	STABILIZES SOIL SURFACE, THUS MINIMIZING EROSION. PERMITS CONSTRUCTION TRAFFIC IN ADVERSE WEATHER. MAY BE USED AS PART OF PERMANENT BASE CONSTRUCTION OF PAVED AREAS	*				*	*		41	STONE AND ROCK CROSSING	MAY BE ROCK OR CLEAN RUBBLE. MINIMIZES STREAM TURBIDITY. WEEDPROOF. MAY ALSO SERVE AS DITCH CHECK OR SEDIMENT TRAP		*					
15	PAVING	PROTECTS AREAS WHICH CANNOT OTHERWISE BE PROTECTED, BUT INCREASES RUNOFF VOLUME AND VELOCITY. IRREGULAR SURFACE WILL HELP SLOW VELOCITY	*				*			42	TEMPORARY CULVERT	ELIMINATES STREAM TURBULENCE AND TURBIDITY. PROVIDES UNOBSTRUCTED PASSAGE FOR FISH AND OTHER WATER LIFE. CAPACITY FOR NORMAL FLOW CAN BE PROVIDED WITH STORM WATER FLOWING OVER ROADWAY		*					
16	CURB & GUTTER	KEEPS HIGH VELOCITY RUNOFF ON PAVED AREAS FROM LEAVING PAVED SURFACE. COLLECTS AND CONDUCTS RUNOFF TO ENCLOSED DRAINAGE SYSTEM OR PREPARED DRAINAGEWAY					*	*	*	43	CULVERT SEDIMENT TRAP	EASY TO INSTALL AT INLET. KEEPS CULVERT SLOW AND FREE FLOWING. MAY BE CONSTRUCTED OF LUMBER OR LOGS		*				*	
17	BENCHES	REDUCES RUNOFF VELOCITY BY REDUCING EFFECTIVE SLOPE LENGTH. COLLECTS SEDIMENT. PROVIDES ACCESS TO SLOPES FOR SEEDING, MULCHING AND MAINTENANCE	*					*		44	CULVERT SEDIMENT TRAP	DEFLECTS CURRENTS AWAY FROM STREAMBANK AREAS		*					
18	DIVERSION BERM	DIVERTS WATER FROM VULNERABLE AREAS. COLLECTS AND DIVERTS WATER TO PREPARED DRAINAGEWAYS. MAY BE SLACED AS PART OF NORMAL CONSTRUCTION OPERATION	*				*	*	*	45	TEMP. STREAM CHANNEL CHANGE	NEW CHANNEL KEEPS NORMAL FLOWS AWAY FROM CONSTRUCTION. REQUIRES STATE PERMIT		*					
19	DIVERSION DITCH	COLLECTS AND DIVERTS WATER TO REDUCE EROSION POTENTIAL. MAY BE INCORPORATED IN PERMANENT PROJECT DRAINAGE SYSTEMS	*				*	*	*	46	SHEET PILING	PROTECTS ERODIBLE BANK AREAS FROM STREAM CURRENTS DURING CONSTRUCTION. MANUAL DISRUPTION WHEN REMOVED		*					
20	BERM & DITCH	DIVERTS WATER TO A PREPARED DRAINAGEWAY. MAY BE USED AT INTERSECTIONS ACROSS SLOPE FACE TO REDUCE EFFECTIVE SLOPE LENGTH	*				*	*	*	47	COFFERDAM	WORK CAN BE CONTINUED DURING MOST ANTICIPATED STREAM CONDITIONS. CLEAR WATER CAN BE PUMPED DIRECTLY BACK INTO STREAM		*					
21	FILTER BERM	CONSTRUCTED OF GRAVEL OR STONE. INTERCEPTS AND DIVERTS RUNOFF TO STABILIZED AREAS OR PREPARED DRAINAGE SYSTEMS. SLOWS RUNOFF AND COLLECTS SEDIMENT	*	*					*	48	CONSTRUCTION DAM	PERMITS WORK TO CONTINUE DURING NORMAL STREAM STAGES. CONTROLLED FLOODING CAN BE ACCOMPLISHED DURING PERIODS OF INACTIVITY		*					*
22	BRUSH FILTER	USES SLASH AND LOGS FROM CLEARING OPERATIONS. CAN BE COVERED AND SEEDED. WATER THAN REMOVED. ELIMINATES NEED FOR BURNING OR REMOVAL OF MATERIAL FROM SITE						*		49	CHECK DAMS	REDUCES FLOW VELOCITY. CATCHES SEDIMENT. CAN BE CONSTRUCTED OF LOGS, STRAW, HAY ROCK, LUMBER, MASONRY, OR SAND BAGS		*	*				
23	BARE CHANNEL	LEAST EXPENSIVE FORM OF DRAINAGEWAY. MAY BE USED ONLY WHERE GRADIENT IS VERY LOW AND WITH SOILS OF MINIMAL EROSION POTENTIAL			*					50	WEIR	CONTROLS SEDIMENTATION IN LARGE STREAMS. CAUSES MINIMAL TURBIDITY		*	*				
24	GRASSSED WATERWAY	MUCH MORE STABLE FORM OF DRAINAGEWAY THAN BARE CHANNEL. GRASS TENDS TO SLOW RUNOFF AND FILTER OUT SEDIMENT. USED WHERE BARE CHANNEL WOULD BE ERODED			*					51	RETAINING WALL	REDUCES GRADIENT WHERE SLOPES ARE EXTREMELY STEEP. PROMPTS RESTORATION OF EXISTING VEGETATION, KEEPING SOIL STABLE IN CRITICAL AREAS. MINIMIZES MAINTENANCE		*					*
25	SLOPE DRAIN (SURFACE PIPE)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT. CAN BE CONSTRUCTED OR EXTENDED AS GRADING PROGRESSES	*							52	SEEPAGE CONTROL	PREVENTS PIPING AND SOIL SLIPPAGE ON OUT SLOPES		*					*
26	SLOPE DRAIN (PIPE CHUTE)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT. CAN BE CONSTRUCTED OR EXTENDED AS GRADING PROGRESSES	*							53	WINDBREAK	MINIMIZES WIND EROSION. MAY BE SNOW FENCE					*		
27	SLOPE DRAIN (SUBSURFACE PIPE)	PREVENTS EROSION ON SLOPES WHEN RUNOFF CANNOT BE DIVERTED TO EDGE OF SLOPE AREA. USUALLY PERMANENT. CAN BE CONSTRUCTED AS GRADING PROGRESSES	*							54	SILT FENCE	USES GEOTEXTILE FABRIC AND POSTS OR POLES. EASY TO CONSTRUCT AND LOCATE AS NECESSARY.			*				*



SEEDING ZONES

PERMANENT SEEDING GUIDE											
	APR	MAY	JUN	JUL	AUG	SEP	OCT				
IRRIGATED AND/OR MULCH											
WITHOUT IRRIGATION OR MULCH											
IRRIGATED AND/OR MULCH											
WITHOUT IRRIGATION OR MULCH											
IRRIGATED AND/OR MULCH											
WITHOUT IRRIGATION OR MULCH											

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE											
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
STRIP & STOCKPILE TOPSOIL											
ROUGH GRADE SEDIMENT CONTROL											
TEMP. CONTROL MEASURES											
STORM FACILITIES											
TEMP. CONSTRUCTION ROADS											
SITE CONSTRUCTION											
PERM. CONTROL MEASURES											
FINISH GRADING											

SOIL EROSION & SEDIMENTATION CONTROL

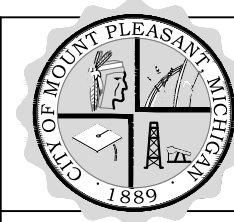
- DEVELOPER/PROPERTY OWNER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN AND OBTAIN A SOIL EROSION & SEDIMENTATION CONTROL PERMIT PRIOR TO ANY EARTH CHANGES.
- CONSTRUCTION OPERATION SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING AND/OR GRADING OPERATIONS.
- BORROW AND FILL DISPOSAL AREAS WILL BE SELECTED AND APPROVED AT TIME OF PLAN REVIEW. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE DEVELOPER WITHIN 24 HOURS.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE COMPLETELY REMOVED BY THE DEVELOPER UPON ESTABLISHMENT OF PERMANENT CONTROL MEASURES.
- ALL TEMPORARY SOIL EROSION CONTROL MEASURES MUST BE REMOVED FROM ROAD RIGHT-OF-WAY AREAS PRIOR TO ACCEPTANCE OF STREETS FOR ROUTINE MAINTENANCE.
- VEGETATION MUST BE ACCEPTABLY ESTABLISHED PRIOR TO FINAL RELEASE OF THE CONSTRUCTION GUARANTEE BY THE DESIGNATED SOIL EROSION SEDIMENTATION CONTROL AGENT.

STREAM CROSSING NOTES

- CONSTRUCTION OF STREAM CROSSINGS SHALL BE SUBJECT TO THE SPECIFICATIONS FOR PROTECTION OF NATURAL RESOURCES AT UTILITY CROSSINGS AS GIVEN IN THE ADMINISTRATIVE RULES FOR ACT 346(RULES 24-29).
- A SILTATION BARRIER SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CONSTRUCTION SITE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. (SEE MICHIGAN UNIFIED KEYING SYSTEM FOR SPECIFIED BARRIER) THE SILTATION BARRIER SHALL BE MAINTAINED IN GOOD WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT.
- BACKFILL SHALL CONSIST OF INERT MATERIALS WHICH WILL NOT CAUSE SILTATION NOR CONTAIN SOLUBLE CHEMICALS OR ORGANIC MATTER WHICH IS BIODEGRADABLE. ALL FILL SHALL BE CONTAINED IN SUCH A MANNER SO AS NOT TO ERODE INTO ANY WATERCOURSE.
- ALL RAW BANKS SHALL BE STABILIZED WITH RIPRAP TO THREE FEET ABOVE THE ORDINARY HIGH WATERMARK, THEN SEED, FERTILIZED AND MULCHED, OR SODDED TO PREVENT EROSION.
- UPON PROJECT COMPLETION THE EXCESS SPOILS SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED UPLAND SITE.
- SILTATION BARRIER MAY BE REMOVED UPON PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.

CONSTRUCTION SEQUENCE

- EXCAVATION AND STOCKPILING OF SOIL.
- IMPLEMENTATION OF TEMPORARY EROSION CONTROL MEASURES; SELECTIVE GRADING.
- PERIODIC MAINTENANCE OF AFFECTED EROSION CONTROL MEASURES.
- PERMANENT MEASURES; FINAL GRADING, SEEDING AND MULCHING.



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SOIL EROSION CONTROL KEY 2023 STORM SEWER EXTENSION ANNA STREET

DESIGN BY **ST**
DRAWN BY **ES**
CHECKED BY **ST**
APPROVED BY **JM**

CONSTRUCTED
DATE OF PLAN **JAN 2023**
SCALE **NTS**
SHEET **9** OF **9** SHEETS

REVISIONS _____ DATE/INITIALS _____

CONTROL SECT. _____ JOB NO. _____ FED. PROJECT _____ FED. ITEM NO. _____

PLOT DATE: _____

CHECK REGISTER FOR CITY OF MT PLEASANT

CHECK DATE FROM 2/24/2023-3/09/2023

Check Date	Vendor Name	Description	Amount
Bank COMM	COMMON CASH		
03/02/2023	CITY TREASURER - UTILITIES	WATER/SEWER	\$3,378.79
03/08/2023	AARON DESENTZ	REIMBURSEMENT	124.99
03/08/2023	ABC FASTENER GROUP, INC	SUPPLIES	34.86
03/08/2023	ADAM POMPILIUS	REFEREE PAY	30.00
03/08/2023	ALL PRO EXERCISE	SUPPLIES/CONTRACT SVCS	454.97
03/08/2023	ALMA ABSTRACT & TITLE	REFUND	34.24
03/08/2023	ALMA TIRE SERVICE INC	SUPPLIES/VEHICLE MAINT	1,192.19
03/08/2023	ANDY KEEHBAUCH	REIMBURSEMENT	84.49
03/08/2023	AVFUEL CORPORATION	FUEL/SUPPLIES	20.00
03/08/2023	AXIOM WIRING SERVICE, LLC	CONTRACT SVCS	1,120.08
03/08/2023	BARBARA MCCOLLOM	REFUND	75.00
03/08/2023	BLOCK ELECTRIC COMPANY	CONTRACT SVCS	360.00
03/08/2023	BLUE BAY CAPITAL	REFUND	47.35
03/08/2023	BO ELLIOT	REFEREE PAY	45.00
03/08/2023	BOUND TREE MEDICAL, LLC	SUPPLIES	338.84
03/08/2023	BRANDON BLISS	REIMBURSEMENT	147.00
03/08/2023	BSN SPORTS LLC	SUPPLIES	38.96
03/08/2023	CARMEUSE AMERICAS	CHEMICALS	9,753.91
03/08/2023	CMU MAILROOM	POSTAGE/HANDLING	3,277.03
03/08/2023	CMU	CONTRACT SVCS	735.00
03/08/2023	CMU	CONTRACT SVCS	183.00
03/08/2023	CMU	CONTRACT SVCS	183.00
03/08/2023	CRDL	REFUND	675.00
03/08/2023	COLDWELL BANKER	REFUND	300.00
03/08/2023	COMMERCE CONTROLS INC	CONTRACT SVCS	1,080.00
03/08/2023	CONSUMERS ENERGY	UTILITIES	3,402.68
03/08/2023	COYNE OIL CORPORATION	FUEL	11,165.68
03/08/2023	DTE ENERGY	UTILITIES	14,006.28
03/08/2023	ELIZABETH PROUT	REFEREE PAY	30.00
03/08/2023	ERA	CONTRACT SVCS	332.42
03/08/2023	ERICA ERVIN	REFUND	75.00
03/08/2023	ERIN FRANCISCO	REFUND	104.00
03/08/2023	ERVIN, ERICA	REFUND	46.24
03/08/2023	ETNA SUPPLY	SUPPLIES	3,096.20
03/08/2023	FERGUSON WATERWORKS	METER REPLACEMENT	326.00
03/08/2023	FISHBECK	CONTRACT SVCS	79,952.40
03/08/2023	FLEX ADMINISTRATORS	FSA ADMINISTRATIVE FEE	247.80
03/08/2023	FRONT LINE SERVICES, INC	CONTRACT SVCS	3,558.40
03/08/2023	GALGOCI OIL COMPANY	FUEL	884.25
03/08/2023	GARY MESSING	REFUND	375.00
03/08/2023	GOUDREAU ASSOCIATES	REFUND	75.00
03/08/2023	GREEN SCENE LANDSCAPING	CONTRACT SVCS	11,820.00
03/08/2023	HANK MCDONALD	REFEREE PAY	60.00
03/08/2023	HCC LIFE INS. CO	ADMIN - STOP LOSS INS	21,174.24
03/08/2023	HEADLINER'S	REFUND	1,050.00
03/08/2023	HIRERIGHT	CONTRACT SVCS	119.90
03/08/2023	INFOSEND, INC	CONTRACT SVCS	5,594.74

CHECK REGISTER FOR CITY OF MT PLEASANT

CHECK DATE FROM 2/24/2023-3/09/2023

Check Date	Vendor Name	Description	Amount
Bank COMM	COMMON CASH		
03/08/2023	I-RIDE	CONTRACT SVCS	13.50
03/08/2023	ISABELLA BANK	CAPITAL IMPROVEMENT BOND	117,725.00
03/08/2023	JONATHON STRAUS	REIMBURSEMENT	56.00
03/08/2023	JUSTIN NAU	REIMBURSEMENT	147.00
03/08/2023	KARLIE KENNY	REFUND	75.00
03/08/2023	KEITH FEIGHT	REFUND	450.00
03/08/2023	KEVIN KEATING	REFUND	75.00
03/08/2023	KOPY KORNER	CONTRACT SVCS	380.00
03/08/2023	KOSTA POVICH	REFUND	150.00
03/08/2023	KRAPOHL FORD	SUPPLIES/VEHICLE MAINT	1,710.37
03/08/2023	LARRY GILLIS	REFUND	75.00
03/08/2023	LAURA FOX	MILEAGE	23.38
03/08/2023	MAEGAN LONG	REIMBURSEMENT	131.36
03/08/2023	MARGO HEINTZ	REFUND	75.00
03/08/2023	MARK KARIMI	REFEREE PAY	90.00
03/08/2023	MARNIE BASENY	REFUND	75.00
03/08/2023	MEDIA IMAGE INC	REFUND	75.00
03/08/2023	MEDLER ELECTRIC COMPANY	SUPPLIES	6.70
03/08/2023	MICHIGAN CAT	CAPITAL ACQUISITIONS	104,400.00
03/08/2023	MMTA	TRAINING	599.00
03/08/2023	MICHIGAN SECTION-AWWA	TRAINING	690.00
03/08/2023	MID MICHIGAN AREA CABLE	CONTRACT SVCS	450.00
03/08/2023	MIDLAND DAILY NEWS	CONTRACT SVCS	331.52
03/08/2023	MIKA MEYERS	CONTRACT SVCS	1,400.00
03/08/2023	MT PLEASANT AGENCY, INC.	REFUND	825.00
03/08/2023	MT PLEASANT KIWANIS CLUB	DUES	84.00
03/08/2023	MP FENCE SASH & DOOR	CONTRACT SVCS	6,437.02
03/08/2023	NRPA	MEMBERSHIP	180.00
03/08/2023	NCL OF WISCONSIN	SUPPLIES/CHEMICALS	2,437.15
03/08/2023	NYE UNIFORM COMPANY	UNIFORMS	315.59
03/08/2023	OFFICE DEPOT	SUPPLIES	1,500.41
03/08/2023	OLIVIERI MANAGEMENT	REFUND	21.75
03/08/2023	O'NEIL & DUSO PLLC	PROSECUTORIAL SVCS	7,785.98
03/08/2023	PAMELA RZEPECKI	REFUND	75.00
03/08/2023	PARTLO PROPERTY MGT	REFUND	450.00
03/08/2023	PAT MCGUIRK EXCAVATING	CONTRACT SVCS	5,746.25
03/08/2023	PEPPERBALL	SUPPLIES	122.00
03/08/2023	PIYUSH SARAIYA	REFEREE PAY	30.00
03/08/2023	PLEASANT GRAPHICS, INC	SUPPLIES	1,482.00
03/08/2023	PRO COMM, INC	SUPPLIES	275.00
03/08/2023	PROGRESSIVE AE, INC.	CONTRACT SVCS	390.00
03/08/2023	PVS TECHNOLOGIES, INC	CHEMICALS	9,670.92
03/08/2023	R & T MURPHY TRUCKING, LLC	CONTRACT SVCS	1,888.00
03/08/2023	REID REGENFUSS	REFEREE PAY	30.00
03/08/2023	ROBERT W LAMSON, PHD	CONTRACT SVCS	465.00
03/08/2023	SAFE CRACKER LLC	REFUND	16.39
03/08/2023	STACI BIGELOW	REFUND	90.00

CHECK REGISTER FOR CITY OF MT PLEASANT
CHECK DATE FROM 2/24/2023-3/09/2023

Check Date	Vendor Name	Description	Amount
Bank COMM COMMON CASH			
3/8/2023	STERICYCLE, INC.	CONTRACT SVCS	358.58
03/08/2023	SUN BADGE COMPANY	UNIFORMS	75.00
03/08/2023	THOMAS RUDERT	REFUND	150.00
03/08/2023	TIARA RAND	REFEREE PAY	45.00
03/08/2023	TOLAS LAND DEVELOPMENT	REFUND	600.00
3/8/2023	TOM KIRCHOFER	TRAINING	190.00
3/8/2023	TRACE ANALYTICAL LABS	CONTRACT SVCS	1,560.75
3/8/2023	TRAVIS WELSH	REIMBURSEMENT	54.10
3/8/2023	UNIFIRST CORPORATION	CONTRACT SVCS	60.88
3/8/2023	USABBLUEBOOK	CHEMICALS	150.85
3/8/2023	VALLEY TRAVEL	REFUND	150.00
3/8/2023	YEO & YEO CONSULTING, LLC	CONTRACT SVCS	900.00
COMM TOTALS:			
Total of 106 Checks:			\$455,026.38
Less 0 Void Checks:			0.00
Total of 106 Disbursements:			<u>\$455,026.38</u>

Mid-Michigan Aquatic Recreation Authority

Audit

Background:

Public Act 321 of 2000 (Recreational Authorities Act) is the State law that provided for the Mid-Michigan Aquatic Recreation Authority to be created. In instances when the Authority does not levy or collect a tax and annual revenues are less than \$100,000, the State law requires an audit every two years.

The Articles of Incorporation drafted by the Recreation Authority Study Committee and ultimately approved by the Mt. Pleasant Public School Board, Charter Township of Union Board of Trustees, and City of Mt. Pleasant City Commission includes a requirement for an annual audit.

The revenues of the Recreation Authority for 2022 are estimated to be \$30,000, which is comprised of the \$10,000 contributed by each of the three (3) founding entities. The funds are being used for legal assistance, accounting assistance, consultant expenses, and marketing.

Preliminary estimates for a governmental audit are \$5,000 to \$10,000 for the 2022 fiscal year.

Concern:

The cost of an audit would be 16% to 30% of the total 2022 revenues of the Authority. This expense was not factored into the first year operational funding requests submitted. To cover the cost of an audit would require fundraising for money specific to that use or a request for an additional allocation from each of the founding entities.

Suggested Alternative:

Since State law does not require an annual audit, the Authority could provide financial statements approved by the Mid-Michigan Aquatic Recreation Authority to each of the founding entities and request that this 2022 financial reporting be sufficient for the initial year of operation.

Mid-Michigan Aquatic Recreation Authority

Balance Sheet

As of December 31, 2022

		TOTAL
ASSETS		
Current Assets		
Bank Accounts		
Cash		7,807.82
Total Bank Accounts		\$7,807.82
Accounts Receivable		
Accounts Receivable (A/R)		0.00
Total Accounts Receivable		\$0.00
Total Current Assets		\$7,807.82
TOTAL ASSETS		\$7,807.82
LIABILITIES AND EQUITY		
Liabilities		
Total Liabilities		
Equity		
Fund Balance		
Net Income		7,807.82
Total Equity		\$7,807.82
TOTAL LIABILITIES AND EQUITY		\$7,807.82

Mid-Michigan Aquatic Recreation Authority

Profit and Loss

January - December 2022

	TOTAL
Income	
Services	30,000.00
Total Income	\$30,000.00
GROSS PROFIT	\$30,000.00
Expenses	
Advertising & marketing	75.80
General business expenses	
Bank fees & service charges	51.52
Total General business expenses	51.52
Insurance	670.00
Legal & accounting services	2,542.50
Consultants	16,705.14
Legal fees	2,150.97
Total Legal & accounting services	21,398.61
Total Expenses	\$22,195.93
NET OPERATING INCOME	\$7,804.07
Other Income	
Other income	3.75
Total Other Income	\$3.75
NET OTHER INCOME	\$3.75
NET INCOME	\$7,807.82

PROPOSAL FOR

COMPREHENSIVE ANALYSIS OF FIRE SERVICES

Mount Pleasant, Michigan



CPSM[®]

CENTER FOR PUBLIC SAFETY MANAGEMENT, LLC
475 K STREET NW, SUITE 702 • WASHINGTON, DC 20001
WWW.CPSM.US • 616-813-3782

ICMA

Exclusive Provider of Public Safety Technical Services for
International City/County Management Association



Center for Public Safety Management, LLC

September 16, 2022

Aaron Desentz
City Manager
320 W. Broadway Street
Mt. Pleasant, MI 48858

Dear Mr. Desentz:

The *Center for Public Safety Management, LLC*, (CPSM) as the exclusive provider of public safety technical assistance for the International City/County Management Association, is pleased to submit this proposal to the City of Mt. Pleasant, Michigan for an analysis of fire and EMS services. The CPSM approach is unique and more comprehensive than ordinary accreditation or competitor studies.

In general, our analysis involves the following major outcomes:

- Conduct a data-driven forensic analysis to identify actual workload of stations, equipment, and personnel. We will quantify the Unit Hour Utilization rates for your EMS department. This forms the basis for determining what is driving overtime; workloads; and service demands.
- Identify and recommend appropriate staffing and deployment levels for every discrete operational and support function in the department.
- Conduct a risk analysis of your community and for the department.
- Examine the department's organizational structure and culture.
- Perform gap analysis, comparing the "as is" state of the department to the industry's best practices.
- Recommend a management framework to ensure accountability, increased efficiency, enhanced safety for responders and the community, and improved performance.
- Determine staffing analysis using workload and performance for fire and EMS departments.

From our discussions, the Director of Public Safety and you had interest in looking at equipment (notably a ladder truck), deployment models, staffing, and response protocols for EMS.

Mt. Pleasant is the county seat for Isabella County and is surrounded by Union Charter Township which also receives services through the Mt. Pleasant Fire Department for fire and EMS (first responders). Mt. Pleasant is home to Central Michigan University and boasts a population of 26,000 residents. In addition, the Isabella Indian Reservation is adjacent to Mt. Pleasant with the Saginaw Chippewa Tribal Nation operating the Soaring Eagle Resort.

EMS is provided through the West Michigan Regional Medical Control Consortium with Mobile Medical Response (MMR) providing transport services. MMR is owned by Ascension St. Mary's, Covenant Healthcare, and Munson Healthcare.

The fire department has a chief, assistant chief, fire lieutenant and three fire sergeants in command. It oversees six full time Fire Equipment Operators who are supported by 13 paid on call and 33 fire responders.

This proposal is specifically designed to provide the local government with a thorough and unbiased analysis of emergency services in your community. We have developed a unique approach by combining the experience of dozens of emergency services subject matter experts. The team assigned to the project will have hundreds of years of practical experience managing emergency service agencies, a record of research, academic, teaching and training, and professional publications, and extensive consulting experience from hundreds of projects completed for municipalities nationwide. The team we assemble for you will be true "subject matter experts" with hands-on emergency services experience, not research assistants or interns.

ICMA has provided direct services to local governments worldwide for almost 100 years, which has helped to improve the quality of life for millions of residents in the United States and abroad. My colleagues at CPSM and I greatly appreciate this opportunity and would be pleased to address any comments you may have. I can be reached at 616-813-3782 or via email at twieczorek@cpsm.us.

Sincerely,



Thomas J. Wieczorek
Director
Center for Public Safety Management. LLC

TABLE OF CONTENTS

The Association and CPSM LLC	2
International City-County Management Association	2
Center for Public Safety Management LLC	2
Meet Your Team	3
Project Managers	4
Data Team	5
GIS	6
Operations Assessment.....	7
Strategic Planning/Master Planning	12
EMS.....	14
Project Schedule	19
The CPSM Approach	20
Importance of Data.....	20
Begins at Dispatch	21
Operations Review.....	23
Risk Assessment.....	23
Presentation of data and GIS.....	25
EMS.....	29
Fire and EMS Resource Exhaustion.....	31
Strategic Planning.....	35
Proposed Fees	37
Conclusion	37
Past and Current Projects.....	38

THE ASSOCIATION & THE COMPANY

International City/County Management Association (ICMA)

The [International City/County Management Association \(ICMA\)](#) is a 108-year-old, non-profit professional association of local government administrators and managers, with approximately 13,000 members located in 32 countries.

Since its inception in 1914, ICMA has been dedicated to assisting local governments and their managers in providing services to their citizens in an efficient and effective manner. ICMA advances the knowledge of local government best practices with its website, www.icma.org, publications, research, professional development, and membership.

Center for Public Safety Management (CPSM)

The ICMA [Center for Public Safety Management \(ICMA/CPSM\)](#) was launched by ICMA to provide support to local governments in the areas of police, fire, and Emergency Medical Services.

The Center also represents local governments at the federal level and has been involved in numerous projects with the Department of Justice and the Department of Homeland Security. In 2014 as part of a restructuring at ICMA, the Center for Public Safety Management (CPSM) spun out as a separate company and is now the exclusive provider of public safety technical assistance for ICMA. CPSM provides training and research for the Association's members and represents ICMA in its dealings with the federal government and other public safety professional associations such as CALEA, PERF, IACP, IFCA, IPMA-HR, DOJ, BJA, COPS, NFPA, etc.

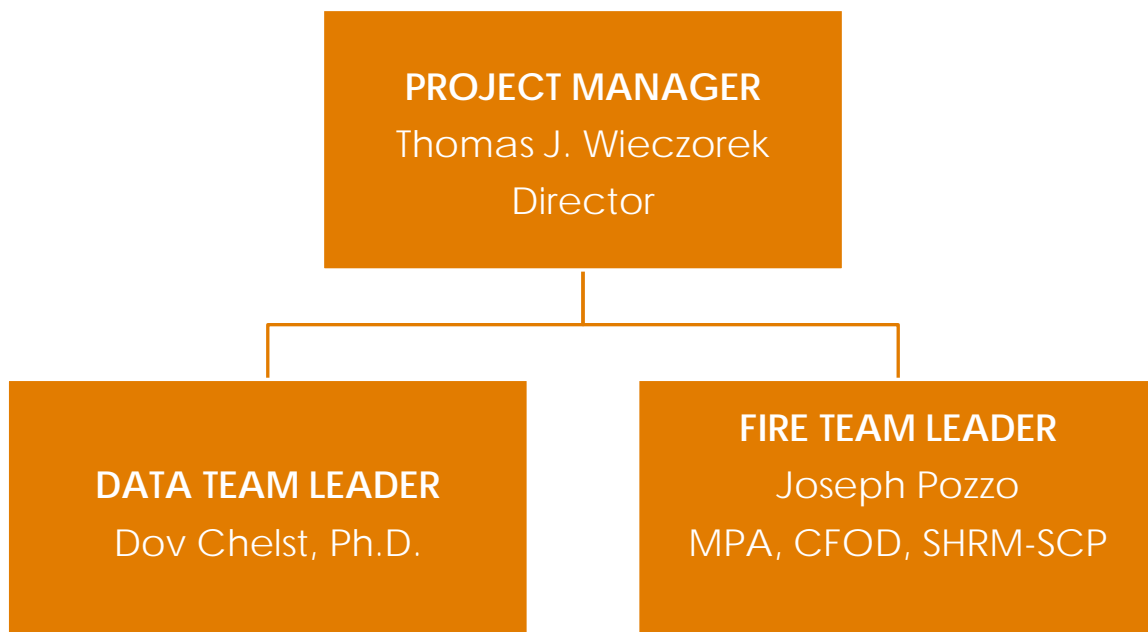
The [Center for Public Safety Management, LLC](#) maintains the same team of individuals performing the same level of service that it had for ICMA. CPSM's local government technical assistance experience includes workload and deployment analysis, using our unique methodology and subject matter experts to examine department organizational structure and culture, identify workload and staffing needs as well as industry best practices. The CPSM website can be found at: www.cpsm.us

We have conducted over 400 such studies in 46 states and provinces and more than 275 communities ranging in population size 3,300 (Lewes, DE) to 800,000 (Indianapolis, IN).

MEET YOUR TEAM -- FIRE

For this project, CPSM will assemble a premier team of experts from a variety of disciplines from across the United States. The goal is to develop recommendations that will produce the outcomes necessary to provide critical emergency services consistent with the community's financial capabilities. The team will consist of a project manager, one Operations Leader and several senior public safety experts selected from our staff to meet the specific needs of the municipality.

The management organizational chart for the project includes the following key team members



PROJECT MANAGER

THOMAS WIECZOREK

Director, Center for Public Safety Management; retired City Manager Ionia, MI; former Executive Director Center for Public Safety Excellence



BACKGROUND

Thomas Wieczorek is an expert in fire and emergency medical services operations. He has served as a police officer, fire chief, director of public safety and city manager, and is former Executive Director of the Center for Public Safety Excellence (formerly the Commission on Fire Accreditation International, Inc.).

He has taught numerous programs for the International City-County Management Association, Grand Valley State University, the National Highway Traffic Safety Administration (NHTSA), State of Michigan's Transportation Asset Management Council, and Grand Rapids

Community College. He often testified for the Michigan Municipal League before the legislature and in several courts as an expert in the field of accident reconstruction and fire department management. He is the past-president of the Michigan Local Government Manager's Association (MLGMA, now MME); served as the vice-chairperson of the Commission on Fire Officer Designation; served as ICMA's representative on the International Accreditation Service (IAS), a wholly owned subsidiary of the International Code Council (ICC); and currently serves on the NFPA 1710 and 1730 committee.

He worked with the National League of Cities and the Department of Homeland Security to create and deliver a program on emergency management for local officials titled, "Crisis Leadership for Local Government Officials." It has been presented in 43 states and has been assigned a course number by the DHS. He represents ICMA on the Emergency Management Assistance Compact (EMAC) Board and other fire service participation areas. In 2022 he worked with ICMA to create a FEMA program on economic recovery from disasters for local government managers. It has been delivered via webinar and in person across the United States.

He received the Mark E. Keane "Award for Excellence" in 2000 from the ICMA, the Association's highest award and was honored as City Manager of the Year (1999) and Person of the Year (2003) by the Rural Water Association of Michigan, and distinguished service by the Michigan Municipal League in 2005.

MANAGING PARTNER

LEONARD A. MATARESE, MPA, ICMA-CM, IPMA-CP

Director of Research and Project Development, Center for Public Safety Management



BACKGROUND

Mr. Matarese is a specialist in public sector administration with expertise in public safety issues. He has 44 years' experience as a law enforcement officer, police chief, public safety director, city manager and major city Human Resources Commissioner. He was one of the original advisory board members and trainer for the first NIJ/ICMA Community Oriented Policing Project which has subsequently trained thousands of municipal practitioners on the techniques of the community policing philosophy over the past 18 years. He has managed several hundred studies of emergency services agencies with attention to matching staffing issues with calls for service workload.

Recognized as an innovator by his law enforcement colleagues, he served as the Chairman of the SE Quadrant, Florida, Blue Lighting Strike Force, a 71 agency, U.S. Customs Service anti-terrorist and narcotics task force and as president of the Miami-Dade County Police Chief's Association – one of America's largest regional police associations. He represents ICMA on national projects involving the United States Department of Homeland Security, The Department of Justice, Office of Community Policing and the Department of Justice, Office Bureau of Justice Assistance. He has also served as a project reviewer for the National Institute of Justice and is the subject matter expert on several ICMA / USAID police projects in Central America. As a public safety director, he has managed fire / EMS systems including ALS transport. He was an early proponent of public access and police response with AEDs.

Mr. Matarese has presented before most major public administration organizations annual conferences on numerous occasions and was a keynote speaker at the 2011 annual PERF conference. He was a plenary speaker at the 2011 TAMSEC Homeland security conference in Linköping, Sweden and at the 2010 UN Habitat PPUD Conference in Barcelona, Spain.

He has a master's degree in Public Administration and a bachelor's degree in Political Science. He is a member of two national honor societies and has served as an adjunct faculty member for several universities. He holds the ICMA Credentialed Manager designation, as well as Certified Professional designation from the International Public Management Association-Human Resources. He also has extensive experience in labor management issues, particularly in police and fire departments. Mr. Matarese is a life member of the International Association of Chiefs of Police and of ICMA.

DATA ASSESSMENT TEAM – PROJECT LEADER

DOV CHELST, PH.D.

Director of Quantitative Analysis



BACKGROUND

Dr. Chelst is an expert in analyzing public safety department's workload and deployment. He manages the analysis of all public safety data for the Center. He is involved in all phases of The Center's studies from initial data collection, on-site review, large-scale dataset processing, statistical analysis, and designing data reports. To date, he has managed over 140 data analysis projects for city and county agencies ranging in population size from 8,000 to 800,000.

Dr. Chelst has a Ph.D. Mathematics from Rutgers University and a B.A. Magna Cum Laude in Mathematics and Physics from Yeshiva University. He has taught mathematics, physics, and statistics, at the university level for 9 years. He has conducted research in complex analysis, mathematical physics, and wireless communication networks and has presented his academic research at local, national, and international conferences, and participated in workshops across the country.

PUBLIC SAFETY DATA ANALYST

XIANFENG LI, PH.D.



BACKGROUND

Dr. Xianfeng Li is a professional computational scientist and certified SAS programmer with a wealth of knowledge and research experience in Complex System Modeling, Data Analysis, and Statistical Physics. He is highly qualified in various coding programs and has earned numerous data science certifications. He previously worked as a Research Associate and Postdoctoral Fellow. Dr. Li earned his Ph.D. and master's degree in Polymer Science within the Institute of Chemistry from the Chinese Academy of Sciences in Beijing. He earned his bachelor's degree in Chemistry at Jilin University in Changchun.

SENIOR PUBLIC SAFETY SUBJECT MATTER EXPERT -- GIS

DAVID MARTIN, PH.D.

Senior Researcher in the Center for Urban Studies, Wayne State University



BACKGROUND

Dr. Martin specializes in public policy analysis and program evaluation. He has worked with several police departments to develop crime mapping and statistical analysis tools. In these projects, he has developed automated crime analysis tools and real-time, dashboard-style performance indicator systems for police executive and command staff. Dr. Martin teaches statistics at Wayne State University. He is also the program evaluator for four Department of Justice Weed and Seed sites. He is an expert in the use of mapping technology to analyze calls for service workload and deployments.

PUBLIC SAFETY DATA ANALYST-GIS

Monicque Lee, MS, BS

BACKGROUND

Ms. Lee has extensive experience in the areas of data and geospatial analysis, hydrographic data processing, mapping platforms, and project management. She has worked as a GIS consultant, and with the U.S. Army Corps of Engineers where she received a U.S. Army commendation, and the United States Geological Survey, Grand Canyon Monitoring and Research Center. Ms. Lee has a Master of Science in Geographic Information Science & Technology.

OPERATIONS ASSESSMENT TEAM – FIRE AND EMS TEAM

SENIOR MANAGER: FIRE AND EMS

Retired Fire Chief, JOSEPH E. POZZO, MPA, CFOD, SHRM-SCP

Former Director of Public Protection for Volusia County, Florida; Former Assistant Director of Human Resources, Volusia County, FL; Former Deputy Director, Volusia County Department of Public Protection; former Director and Fire Chief, Volusia County, Florida, former Fire Chief, Loudon County, Virginia, former Fire Chief Portsmouth, Virginia.



BACKGROUND

Joe has a forty (40) year career in public service, and most recently served as the Director of Public Protection for Volusia County, Florida where he provided executive leadership to the Fire, EMS, Emergency Management, Corrections, Animal Control, and Beach Safety divisions. The Public Protection Department is the largest department in Volusia County and includes 945+ employees, an EMS Division that handles over 50,000 transports per year and utilizes Florida's first ever Nurse Triage system in the 911 Center, an all-hazards Emergency Management Division that specializes in coastal storm preparation and response, and a Fire Division that responds to 23,000 calls/year utilizing ALS staffed apparatus.

From March 2015 to September of 2018, Joe served as the Assistant Director of Human Resources for Volusia County, Florida (3,200 employees), where he managed the employee relations, benefits administration, and occupational health services functions and teams, as well as assist in the management and negotiation of six collective bargaining agreements/units. Joe was also involved in developing and implementing the County's Diversity and Inclusion initiative.

Joe has also served as the Deputy Director of the Department of Public Protection Volusia County, Florida, where he was responsible for the day-to-day operations of Fire, EMS, Emergency Management, Medical Examiner, Beach Safety, Corrections, and Animal Services. He was formerly Fire Chief of Volusia County Fire Services, where he developed and implemented a service model designed to introduce EMS transport into the agency, incorporate fleet efficiencies, and enhance the wild land/urban interface efforts.

Prior to Chief Pozzo's appointment in Volusia County in 2010, he served as the Chief of the Loudoun County Department of Fire and Rescue. This agency is a combination fire and rescue system providing fire, rescue, and emergency management services in one of the fastest growing counties in the nation. The fire and rescue system during Chief Pozzo's tenure provided these services to over 275,000 permanent residents living in 520 square miles of diverse suburban and rural area located within the National Capital Region. Services were executed through 450+ career staff 1400+ volunteer members operating out of 19 stations.

Prior to his appointment with Loudoun County, Chief Pozzo served as Chief of the Portsmouth Fire, Rescue and Emergency Services Department. This agency is one of the oldest professional departments on the eastern seaboard and served over 100,000 residents during Chief Pozzo's tenure. Chief Pozzo also served in the City of Virginia Beach, Va. Fire Department for 19 years reaching the level of Deputy Fire Marshal and then Battalion Chief prior to embarking on his career as a Fire Chief/Director.

Joe holds a Master of Public Administration degree from Troy University, a B.A. in Public Administration from Saint Leo University, and numerous public safety technical certifications. He holds the **Chief Fire Officer Designation** from the Center for Public Safety Excellence and is a **Senior Certified Professional in Human Resources** through the Society of Human Resource Management (SHRM).

SENIOR ASSOCIATE: FIRE SERVICES

CHIEF PETER J. FINLEY, JR. (RET.), BA, EFO

Retired Chief of Department City of Vineland Fire Department and Winslow Township Fire Department. Past President NJ Career Fire Chiefs Association.



BACKGROUND

Pete Finley's 36-year career in the fire and emergency services includes 28 in a career capacity with several different fire departments. He has served as Chief of Department for two New Jersey Fire Departments, most recently the Winslow Township Fire Department where, significant among other accomplishments, he was responsible for the planning, establishment, and initial deployment of the career component of the department as it transitioned from fully volunteer to combination status. Prior to that he served for more than 20 years with the City of Vineland Fire Department holding every operational rank (Firefighter, Fire Prevention Specialist, Captain, Deputy Chief, Fire Chief) including 4 ½ years as Chief of Department.

In this position he initiated significant changes within the department including implementing numerous improved operational and safety initiatives, updating and modernizing equipment, providing the department's first ever formal officer training and development program, and significantly increasing the capabilities of the regional hazardous materials and special operations response team. During his tenure, the department received more than one million dollars in various grants. He formerly commanded the Vineland Rescue Squad gaining significant EMS operations and command experience and completing a complete overhaul of that organization's operations.

Chief Finley currently serves as an Adjunct Professor in the Fire Science Program at Camden County College. In addition, since his retirement, he has been involved in conducting numerous fire department operational readiness and organizational evaluations including several under the auspices of the United State Coast Guard related to domestic port security assessments. He has also been involved in the development and administration of several fire service promotional examinations and assessment processes.

Chief Finley received his Associate in Applied Science degree from Atlantic Community College in New Jersey and earned his Bachelor of Science degree in Fire Science/Administration from the University of Maryland. He is a 2003 graduate of the National Fire Academy's Executive Fire Officer Program earning an Outstanding Research Award for his 2002 paper titled, "Residential Fire Alarm Systems: The Verification and Response Dilemma". He has earned more than two dozen state and national fire service certifications, most of them the highest level attainable. Chief Finley has been a member of several fire service organizations and served on numerous committees throughout his career. In 2008 and 2009 he served as President of the New Jersey Career Fire Chiefs Association, a professional association that represents and advocates for the interests of the state's full-time professional fire chiefs and the fire service in general. From 2003–2005 he was a member of the Training and Education Committee of the Governor's Fire Service and Safety Task Force.

SENIOR ASSOCIATE: FIRE SERVICES

Chief Mark I. Piland, MPH, EFO

Fire Chief, City of Frisco, Texas



BACKGROUND

Mark I. Piland is the Fire Chief for the City of Frisco, Texas, one of the fastest growing cities in the United States. Previously, Piland served as the Fire Chief for Volusia County Fire Services in Volusia County, Florida and as Shift Commander in Operations for the Virginia Beach Fire Department in Virginia Beach, VA. He also served on Virginia Task Force 2, a FEMA Urban Search and Rescue Team as Task Force Leader, East Coast Task Force Leader Representative, and Incident Support Team Leader with deployments to the Pentagon, Katrina, and Haiti.

Piland also served as a Principal Member on NFPA Technical Committee 1981 *Standard on Open Circuit Self Contained Breathing Apparatus* for seven years. Piland was recently selected to represent the International Association of Fire Chiefs (IAFC) at the NFPA Forum, a think tank of fire service leaders brought together to discuss and make recommendations for the protection of the fire service as well as the life and safety protection needs of society.

Piland possess a Master of Public Health from Eastern Virginia Medical School, and a Bachelor of Psychology from Old Dominion University and is a graduate of the National Fire Academy's Executive Fire Officer Program, The Executive Leaders Program at the Post Naval Graduate School, Center for Homeland Defense, and Senior Executives in State and Local Government from The Kennedy School at Harvard.

ASSOCIATE: FIRE SERVICES

Retired Deputy Fire Chief, Matt Gustafson

Former Deputy Chief for Sonoma County Fire District; Former Battalion Chief and Fire Marshal for Central Fire Authority of Sonoma County (Windsor and Rincon Valley Fire Districts); Former Acting Assistant Fire Chief for Central Fire Authority of Sonoma County; Former Battalion Chief and Fire Marshal for Windsor Fire Protection District; Former Assistant Chief and Director of Security for Lucasfilm LTD / Skywalker Ranch Fire Brigade. Currently serving as adjunct fire technology instructor at the Santa Rosa Jr. College.



BACKGROUND

Matt has a forty-year career in public and private fire service, and most recently retired as a Deputy Chief with the Sonoma County, CA Fire District. Deputy Chief Matt Gustafson started his career as a volunteer Firefighter for the City of Larkspur (CA). Matt was later hired at Lucasfilm LTD to help create a new fire, safety, and security division for the Skywalker Ranch / Lucasfilm complexes. Matt gained extraordinary experience and education in private emergency services as well as motion-picture film and TV entertainment safety. Matt worked his way up to Assistant Fire Chief and Head of

Safety/Security for the Skywalker Ranch complex.

In 1998, Matt was hired with Windsor Fire Protection District as a Battalion Chief / Fire Marshal. As Battalion Chief, Matt managed fire station crews, administrative staff and respond to greater

alarm incidents ultimately for two fire districts under a Joint Powers Agreement (JPA). Matt managed employee performance and relations, facilities, and policy development. During this time, Matt founded the Sonoma County Fire Chief Operation section which lead to more common county-wide tactics and strategies, strike team and county-wide resource management. As Fire Marshal, Matt performed plan review and fire and life safety inspections for new building projects and events for a rapidly growing community. Matt managed fire investigations, public relations, and community risk reduction programs. Matt worked closely effectively with the public, building officials, planners, developers, other fire officials, city officials, and elected officials. Matt served as president of the Sonoma County Fire Prevention Officers and facilitated the "single-code" (one fire code for the entire county) project. Matt also served as acting assistant fire chief for several years and routinely filled in for the fire chief. Matt managed a LEED/Green certified new fire station project, added staffing, built employee relations, created strategic plans, team building programs, fee schedules, mitigation revenues, and a career succession program.

In most recent years, Matt has helped managed complexed annexations and mergers resulting in five struggling agencies to become one cohesive agency and increasing services from BLS to ALS. Matt has also spent a great deal of time helping the district and the community regain footing after four back-to-back large incidents, namely the Tubbs (2018), Kincade (2019), Walbridge, Glass, Lightening Complex (2020) fires.

In August 2021, Matt retired as the district continued to blossom with a solid budget, high employee morale, very good public relations, robust loss-prevention program and with the district overall poised for additional expansions. Matt is currently an adjunct fire officer instructor and oversees firefighter and EMT internships for the Santa Rosa Jr. College.

Matt has an associate degree in Fire Science Technology, a Bachelor of Science degree in Fire Administration and Prevention (Magna Cum Laude), Fire Officer Certification, and is a Master Instructor within the California State Fire Service Training and Education System.

ASSOCIATE: FIRE SERVICES

Director of Public Safety-Fire Chief, SCOTT V. HECHLER, MBA, CFO

Current Director of Public Safety – Fire Chief for Hernando County, Florida; Former Interim Director of Human Resources for Hernando County, Florida; Former Assistant County Administrator for Hernando County Florida, Former Deputy Fire Chief for Spotsylvania County, Virginia, Former Interim Fire Chief for Spotsylvania County, Virginia; Former Director of Public Safety & Emergency Management for Campbell County, Virginia; Former Fire, EMS, and Emergency Management contract subject-matter-expert for the U.S. Navy CNIC HQ N37, Washington Navy Yard; Former Chief Deputy Executive Director for the Virginia Department of Fire Programs.



BACKGROUND

Chief Scott Hechler has a nearly forty (40) year career in public service, and currently serves as the Director of Public Safety – Fire Chief for Hernando County, Florida since June 2014. As the Chief of Hernando County Fire and Emergency Services (HCFES), he leads an all-hazards department that provides fire protection, advanced life support (ALS) first responder EMS services, ALS emergency transport services, ALS inter-facility transport services, ARFF, HAZ-Mat, and Technical Rescue Teams, and emergency management services that specializes in both coastal preparedness and inland river related community risks.

HCFES' 292 members responded to nearly 38,000 emergency incidents in 2021 protecting 195,000 citizens and thousands of tourists from around the world. Scott led the newly merged countywide fire department to develop its first strategic plan, standards of response coverage, and guiding principles documents. He co-founded the Nature Coast Fire Chiefs Association. While still responsible for the county's largest department, Scott also provided executive leadership to mosquito control, animal services, facilities maintenance, facilities custodial services, fleet management, building official's office, parks & recreation, human resources, and risk management.

From June 2012 to his retirement in June 2014, Scott served as the Deputy Fire Chief for Spotsylvania County, Virginia. He was responsible for the operations, EMS, and emergency management divisions. He was appointed Interim Fire Chief for six months and assembled the department's first strategic planning executive committee consisting of all ranks, civilian staff, and volunteer fire and rescue officers. Scott helped lead the transition of the career staff from weekday staffing to twenty-four (24) shifts. He also led emergency management staff in preparations for weather related emergencies and events such as large-scale civil war re-enactments. He also mentored a chief officer to aspire for and become the county Fire Chief. Prior to his appointment in Spotsylvania County, he served as the Director of Public Safety and Emergency Management for Campbell County, Virginia.

He was responsible for the career fire, EMS, and emergency management divisions. He also led animal services and 911 Communications Center as well as served as the county risk manager. Scott united the career fire/EMS staff and the fourteen-volunteer fire and rescue departments into one County Department of Public Safety that preserved organizational independence. He led the development of the first countywide fire EMS strategic plan. He also led the emergency preparedness plan for a two-day Regional Air Show that included the U.S. Navy Blue Angels. He also mentored his Deputy Director to become the first female Director of Public Safety for Campbell County.

Prior to his appointment in Campbell County, Scott was recruited by Battelle Memorial Institute, where he served as a fire and emergency services subject matter expert assigned to the U.S. Navy CNIC HQ N37 Director of Naval Fire & Emergency Services. He worked in a full-time and part-time capacity from August 2007 to March 2013. He analyzed Naval Installation fire/EMS program assessments, apparatus specifications and procurement, Congressional inquiries, and special projects. He served on CNIC HQ Emergency Management Naval Installation Emergency Response Team assessment project team. He improved DoD firefighter safety worldwide as project manager for an interactive web-based firefighter safety and injury risk-reduction training course. He also developed an International Association of Continuing Education and Training (IACET) recognized NIMS Compliance and Instructional Program in collaboration with the U.S. Department of Homeland Security, National Fire Academy, FEMA Emergency Management Institute, and AFCESA / DoD Certification Program staff.

Prior to his recruitment by Battelle, Scott was appointed in March 2004 by Governor Warner of Virginia to join his executive leadership team as the Chief Deputy Executive Director of the Virginia Department of Fire Programs. He directed VDFP's statewide accreditation, certification, training and response programs for all firefighters within the Commonwealth of Virginia. He provided leadership along with Executive Director for reciprocity agreement between VDFP and Virginia's community colleges. He served as a liaison to the Governor's Office, Secretary of Public Safety, General Assembly, local governments, organizations, and federal entities. He partnered with the Executive Director and senior division staff to gain Pro Board accreditation for numerous VDFP firefighter NFPA certifications.

Prior to his appointment by the Governor, Scott began his fire EMS career with Chesterfield County, Virginia in October of 1982. He soon became the youngest lieutenant in the department's history and rose through the ranks as an assistant fire marshal (fire investigator & fire inspector), captain, administrative officer, and interim battalion chief. He led the creation and implementation of a firefighter health & fitness program. He also was a State Certified Adjunct Fire Instructor III since 1988 and a Virginia Fire Marshal Academy Instructor since 1996. Scott holds a Master of Business Administration degree from Liberty University, a dual major B.A. in Labor Safety & Health / Labor Studies from the National Labor College. He has completed the VCU Center for Public Policy Virginia Executive Institute, the UVA Weldon Cooper Center for Public Service LEADS program, and the John Tyler Community Center Total Quality Management Institute program. He has been a member of numerous emergency preparedness, public safety, NIMS, and community readiness workgroups at the regional, state, national levels. He also holds the **Chief Fire Officer Designation** from the Center for Public Safety Excellence.

STRATEGIC AND MASTER PLANNING

ASSOCIATE: STRATEGIC PLANNING AND PUBLIC SAFETY ANALYSIS

RANDA MATUSIAK, Ph.D.

Currently the Special Projects Coordinator for the Department of Public Protection in Volusia County, Florida. In this role, Dr. Matusiak manages data related projects and is responsible for and specializes in data analysis for divisions such as the Volusia County Division of Corrections, Volusia County Emergency Medical Services, and Volusia County Fire Rescue. Data analysis projects encompass current performance measurement, operational resource assignment and management, and service level planning.



BACKGROUND

Dr. Matusiak holds a B.A. in Psychology from the University of Texas at Austin, an M.A. in Criminal Justice and Criminology from Sam Houston State University (Huntsville, TX), and a Ph.D. in Criminal Justice from Sam Houston State University. After completing her Ph.D., Dr. Matusiak held the position of Assistant Professor at the University of Central Missouri (UCM). While at UCM, she also served as Graduate Program Coordinator for several years. Additionally, Dr. Matusiak served as an Adjunct Instructor for the Department of Criminal Justice at the University of Central Florida.

Dr. Matusiak has been engaged in working with practitioners in a variety of fields since her time at the Texas Regional Center for Policing Innovation (TRCPI) at Sam Houston State University. At TRCPI she was involved with organizing, facilitating, and/or reporting on several trainings to include topics ranging from community engagement and community policing to intensive human trafficking task force training. Dr. Matusiak's original research has been published in peer-reviewed scholarly journals such as *The Prison Journal*, *Women in Criminal Justice*, and *Policing: An International Journal of Police Strategies & Management*.

ASSOCIATE: FIRE SERVICES AND EMERGENCY MANAGEMENT

DEPUTY CHIEF JAMES L. MAUNEY, (RET.)

Former Deputy Fire Chief, Volusia County, Florida; Former Deputy Operations Supervisor, Volusia County Emergency Management; Former Fire Chief, Lake County Fire & Rescue, Former Director of the Emergency Services Institute; Volusia County Fire Services.



BACKGROUND

Jim has a thirty (30) year career in public safety, beginning as a State Trooper with the Florida Highway Patrol. Since his retirement from Volusia County, Jim has embarked on a post-retirement career where he develops and conducts specialized training that includes incident command and management; wild land/urban interface suppression and defensible communities; design, development, implementation, and evaluation of emergency response exercises; firefighter principles and practices; fire company officer leadership, continuity of operations planning, and hazardous materials. Jim is certified in the Homeland Security Exercise Evaluator Program (HSEEP), and conducts training

supported by the Department of Justice, State of Florida, National Wildfire Coordinating Group, FEMA, NIMS.

As an Assistant Chief with Volusia County, FL, Jim trained Florida's first wildland fire crew in 1994; the Volusia County Fire Service Firewalkers. These 30 certified firefighters were trained in wildland firefighting tactics, Florida fuels topography, and weather. In 1998 the team was instrumental in saving lives, businesses, and homes in Volusia County during what is still recognized as "*the most complex fire in America's history*". During this incident, Jim served as the Area Commander for the 6 weeks, managing resources for 968 individual wildland fires totaling 147,000 acres.

Jim is a subject matter expert in the concepts for determining the risks associated with the wild land/urban interface and Firewise Community development. Jim also has extensive experience in the principles and practices of Emergency Management. During Jim's career in Emergency Management, he coordinated operations with sixteen (16) municipalities to incidents within the County during fifty (50) plus federally declared disasters. Jim maintains his Florida Department of Law Enforcement certifications and serves as a law enforcement Reserve Sergeant in Lake Helen, Florida.

Jim has completed coursework at the National Emergency Training Center in Emmitsburg, MD, and holds numerous technical and instructor certifications in fire, emergency medical services, law enforcement, emergency management, incident command, Homeland Security, and firearms.

EMS TEAM

SENIOR ASSOCIATE-EMERGENCY MEDICAL SERVICES

Matt Zavadsky, MS, BA

Chief Transformation Officer, MedStar Mobile Healthcare



BACKGROUND

Matt Zavadsky currently serves as the Chief Transformation Officer at MedStar Mobile Healthcare, the Public Utility Model EMS agency that provides exclusive emergency and non-emergency EMS and Mobile Integrated Healthcare services for Fort Worth and 14 other cities in North Texas. MedStar provides advanced life support ambulance service to 436 square miles and more than 1 million residents and responds to over 178,000 calls a year with a fleet of 65 ambulances. MedStar is a dual-accredited, high-performance, high-value EMS system, providing clinical care with high economic efficiency with no taxpayer subsidy and is one of the most recognized EMS agencies in America.

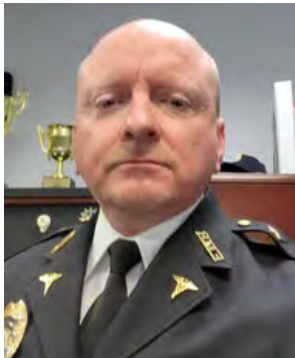
Joining MedStar in 2008 as the Operations Director, Matt has helped guide the continued development and implementation of numerous innovative programs with healthcare partners that have transformed MedStar fully as a Mobile Integrated Healthcare (MIH) provider, including high utilizer, CHF readmission reduction, observational admission reduction, hospice revocation avoidance, 9-1-1 nurse triage programs and partnerships with home health agencies. He is also the co-author of the book "Mobile Integrated Healthcare – Approach to Implementation" published by Jones and Bartlett Publishing.

Matt has 42 years' experience in EMS and holds a master's degree in Health Service Administration with a graduate certificate in Health Care Data Management. He is a frequent speaker at national conferences and has done consulting in numerous EMS issues, specializing in mobile integrated healthcare, high-performance EMS system operations, public/media relations, public policy, EMS economic models and EMS research. Matt is the Immediate Past President of the National Association of EMTs and chairs their EMS Economics Committee. He is also Adjunct Faculty for the University of North Texas Health Science Center, Department of Health Management and Policy, as well as an appointed committee member to the NFPA 450 and 451 Committees, the Joint Commission's Home Care Professional and Technical Advisory Committee (PTAC), the Lewin Group's Hospital Outpatient Quality Reporting (HOQR) Program Stroke and AMI Expert Work Group, developing metrics for use in value-based purchasing measures for emergency departments.

ASSOCIATE: EMERGENCY MEDICAL SERVICES

Executive Director, JASON BRADY, MBA, MICP, NRP, CCEMT-P, CSSBB

Executive Director, Emergency Medical Services for University Hospital – Newark, NJ;
Former Director of EMS for Volusia County, Florida; Former Director of Emergency Medical Services, Macon, GA; Former Special Operations Paramedic Grady EMS, Atlanta GA
Former Deputy Fire Chief, Lawrenceville, VA; Former Senior Paramedic, Brunswick County, VA
Former Chief Flight Paramedic West Chicago, IL; Former Director of Operations, RMT Schaumburg, IL.



BACKGROUND

Director Brady has a thirty (30) year career in public service, and currently serves as the Executive Director of EMS for University Hospital – Newark, NJ where he provides executive leadership to ground ALS / BLS 911 operations, NJ State Police Medivac program (JEMSTAR), FBI-Newark SWAT Blue Team – medical coordination unit, New Jersey Task Force Operations, EMS Urban Heavy & Technical Rescue Operations, New Jersey Port Authority Operations for both Liberty International Airport and the Newark Seaport. Additionally, Director Brady oversees The Northern New Jersey Medical Coordinating Center (MCC) which involves medical surveillance activities for over 35 hospitals, and lastly

Director Brady oversees the UHEMS Special Operations Group (SOG) with special emphasis on preparedness, emergency operational strike teams that are multidisciplinary. The city of Newark is 26 square miles with a population of approximately 300K residents and is Home to Rutgers University & The New Jersey Institute of Technology. University Hospital EMS has approximately 300 Full-Time Staff Members, forty-five (45) Ambulances, and answers over 110K calls for service annually.

From July of 2019 through July of 2021 Director Brady served as the Director of EMS for Volusia County Florida. In this roll Director Brady modernized fleet operations, championed for advanced equipment, training and employee engagement. Director Brady's time made a lasting impact with significant innovative practices to allow Volusia County EMS to reach both operational and clinical high performance that meets best practices nationally. Volusia County's service area includes 1200 Square Miles with both Urban, Rural and Wildland interfaces. Volusia County operates approximately 55 ambulances, has nearly 250 uniformed personnel and responses to approximately 75K calls for service annually.

Prior to Director Brady's appointment in Volusia County in 2019, he served as the EMS Director of Navicent Health (formerly known as The Medical Center of Central Georgia). This agency is a hospital Based 911 EMS agency. Navicent Health is the second largest Hospital in Georgia and is a primary tertiary center with Level 1 Trauma Center. Navicent EMS provided coverage to an area of just over 1200 square miles that encompassed four (4) counties. Navicent Health EMS answers approximately 80K calls for service a year with a fleet size of 37 ambulances including three Neonatal Specialty Transport ambulances in support of Navicent's Children's Hospital which responded to calls for service for twenty-Six counties across Central and South GA. During his Seven Years as Director of EMS Director Brady working in collaboration with the Mercer University School of Medicine championed Telemedicine for Rural Counties with little access to direct primary care that resulted in state legislation to allow Ambulances within the State to be considered a presentation cite for the purpose of state Medicaid reimbursement.

Prior to his appointment with Navicent Health, Director Brady served as Deputy Chief of the Lawrenceville Fire Department & Senior Paramedic for Brunswick County EMS. This agency is over 100 years old and has a rich history in Southern Virginia. During Chief Brady's time he helped to

elevate and modernize the first responder program and served as a senior Paramedic for Brunswick County Residents.

Prior to his appointment in Brunswick County Director Brady served as a Critical Care Flight Paramedic, eventually being promoted to Chief Flight Medic, and overseeing his own HEMS base of operations in Eastern and Central Illinois.

ASSOCIATE: FIRE AND EMS

CHIEF RONDALL L. EARLY, MPA, EFO, NREMT-P

Fire Chief, Wake Forest, North Carolina



BACKGROUND

Chief Early has more than 30 years of fire and EMS experience as a practitioner, middle manager, and Chief Officer in the planning, organizing, leading, and administration of Fire and EMS department operations. Since 2008, Chief Early has commanded the Town of Wake Forest, NC Fire Department. The Town of Wake Forest fire department is a combination fire department that provides fire suppression, basic life support emergency medical services first response, hazardous material response, fire prevention, emergency management oversight, and fire and emergency medical services training programs. The department serves the Town of Wake Forest and a surrounding unincorporated fire

district.

Prior to his appointment in Wake Forest, Chief Early served the Portsmouth, VA Fire and EMS Department for twenty years. In Portsmouth, Chief Early rose through the ranks from firefighter to Chief Officer, working in all areas of this department as a practitioner, company officer, and middle manager assigned to engine and ladder companies, EMS transport, and professional development. Chief Early's final assignment in Portsmouth prior to leaving for Wake Forest was as the Division Commander for Emergency Medical Services, where he oversaw the department's EMS transport operation, EMS billing, training, and administration of this departmental division.

Chief Early holds a Master of Public Administration degree from Troy University, is a 2011 graduate of the National Fire Academy's Executive Fire Officer Program, holds the certification of Nationally Registered Emergency Medical Technician-Paramedic, and holds the rank of 2nd Lieutenant with the North Carolina Civil Air Patrol in charge of Emergency Services.

PROJECT SCHEDULE

Milestone 1 – Full execution of the agreement

Agreement will identify Project Launch date.

Milestone 2 – Project Launch

We will conduct an interactive telephone conference with local government contacts. Our project leads will launch the project by clarifying and confirming expectations, detailing study parameters, identifying agency point of contacts and commencing information gathering.

Milestone 3a – Information Gathering and Data Extraction – 30 Days

Immediately following project launch, the operations leads will deliver an information request to the department. This is an extensive request which provides us with a detailed understanding of the department's operations. Our experience is that it typically takes an agency several weeks to accumulate and digitize the information. We will provide instructions concerning uploading materials to our website. When necessary, the lead will hold a telephone conference to discuss items contained in the request. The team lead will review this material prior to an on-site visit.

Milestone 3b – Data Extraction and Analysis – 14 Days

Also, immediately following the project launch the Data Lead will submit a preliminary data request, which will evaluate the quality of the Computer Aided Dispatch (CAD) system data. This will be followed by a comprehensive request for data from the CAD system to conduct the response and workload analysis. This request requires a concerted effort and focused response from your department to ensure the timely production of required for analysis. Delays in this process will likely extend the entire project and impact the delivery of final report. The data team will extract one year's worth of Calls for Service (CFS) from the CAD system. Once the Data Team is confident the data are accurate, they will certify that they have all the data necessary to complete the analysis.

Milestone 3c – Data Certification – 14 days

Milestone 4a – Data Analysis and Delivery of Draft Data Report – 30 days

Within thirty days of data certification, the analysis will be completed and a draft, unedited data report will be delivered to the department for review and comment. After the data draft report is delivered, an on-site visit by the operations team will be scheduled.

Milestone 4b – Departmental Review of Draft Data Report – 14 days

The department will have 10 days to review and comment on the draft unedited data analysis. During this time, our Data team will be available to discuss the draft report. The Department must specify all concerns with the draft report at one time.

Milestone 4c – Final Data Report – 10 days

After receipt of the department's comments, the data report will be finalized within 10 days.

Milestone 5 – Conduct On-Site Visit – 30 days

Subject matter experts will perform a site visit within 30 days of the delivery of the draft data report.

Milestone 6 – Draft Operations Report – 30 days

Within 30 days of the last on-site visit, the operations team will provide a draft operations report to the department point of contact. Again, the department will have 10 days to review and comment.

Milestone 7 – Final Report 15 days

Once the [dDepartment](#)'s comments and concerns are received by CPSM the combined final report will be delivered to the city within 15 days.

TOTAL ELAPSED TIME: 105 – 170 days

THE CPSM APPROACH TO FIRE AND EMS

CPSM has used decades of research drawn from around the world to approach fire and EMS studies that engage our client team to deploy using standards and data, not tradition and collective memory.

Following a project commitment, the CPSM team will conduct a project launch with our client team members via Zoom. The purpose of this launch is to clarify expectations, identify key players, and begin the process of data collection and quantification. We will look at the dispatch or department personnel that can provide access to the raw Computer Aided Dispatch (CAD) data that underpins many of our findings and recommendations. We will look toward our client team to upload policies, procedures, past plans, standards of cover, risk assessments, and other relevant information.

CPSM will also establish when and how often regular contacts will be made with our client team and who should be involved. We want to make sure your expectations and our work product blend. Along the way, if situations change, we can use the data we begin gathering on the first day to drill down and perhaps identify problems before they negatively impact the department.

Data.... why data?

CPSM has found that there are tremendous amounts of data collected on a daily, even hourly basis on many departments. The challenge is how to access that data; how to clean that data; how to quantify that data; and how to present the product so that everyone understands.

CPSM does not use hypotheticals. We don't use "national averages" upon which to base our client team's individual recommendations and findings. We begin analyzing your data to establish your performance and paint a complete picture of how you are deploying with the accompanying results.

It is critical to have data and one of the biggest challenges for departments because rarely do they have the depth of our analytical team and its decades of research and trademarked processes. If we are going to recommend change and if our client team is going to make change – they need data to measure how it impacted their outcomes. It's not good enough to say, "this is what happens wherever." We need to provide you with the tools and launch point so that you can measure and report to your stakeholders – citizens, elected officials, appointed officials, and staff – how those changes affected the outcome.

No city, county or community ever imagines just skipping the annual audit. It's usually a mandate in the charter or state law. Yet we find few communities are willing to extend the same effort to delve into the operations of their largest emergency response departments whose actions can literally be life and death. Our process is the same for each community so that we can build national data reporting tables and compare you to like demographics, but we create our recommendations and findings based on your individual performance. The CAD system is also the official record of public safety services for communities. Like minute books for the city clerk, it is the record of times and actions taken by your response community. The information at dispatch needs to be collected; it needs to be correct; and it should be a resource to assist with decision making daily.

CPSM ensures this information and system is working and correct before we proceed to other facets of our work.

Begins at dispatch

Armed with the data and information we gather; we start your project at the dispatch center. Benchmarks have been established for dispatch centers across the country in National Fire Protection Association Standards (NFPA 1220, NFPA 1221, NFPA 1710, NFPA 1720, etc.). Many of those same benchmarks and standards have also been adopted by the Association of Public-Safety Communications Officials-International (APCO).

The dispatch protocols are continually being studied, particularly with the adoption of Priority Fire, Medical, and Police dispatch. The systems look at collecting what is happening, where, and alerting the right response to the right location for a positive outcome.

Time is critical when it comes to fire and EMS emergencies. Research has continued to show that most of the fire and EMS responses do not require lights and sirens. However, the information gathering component is the same whether it is a “Code” Emergency run or a non-emergency response. The alert must be answered, the information processed, and then the correct response mode determined using data gathering that has begun in the dispatch center.



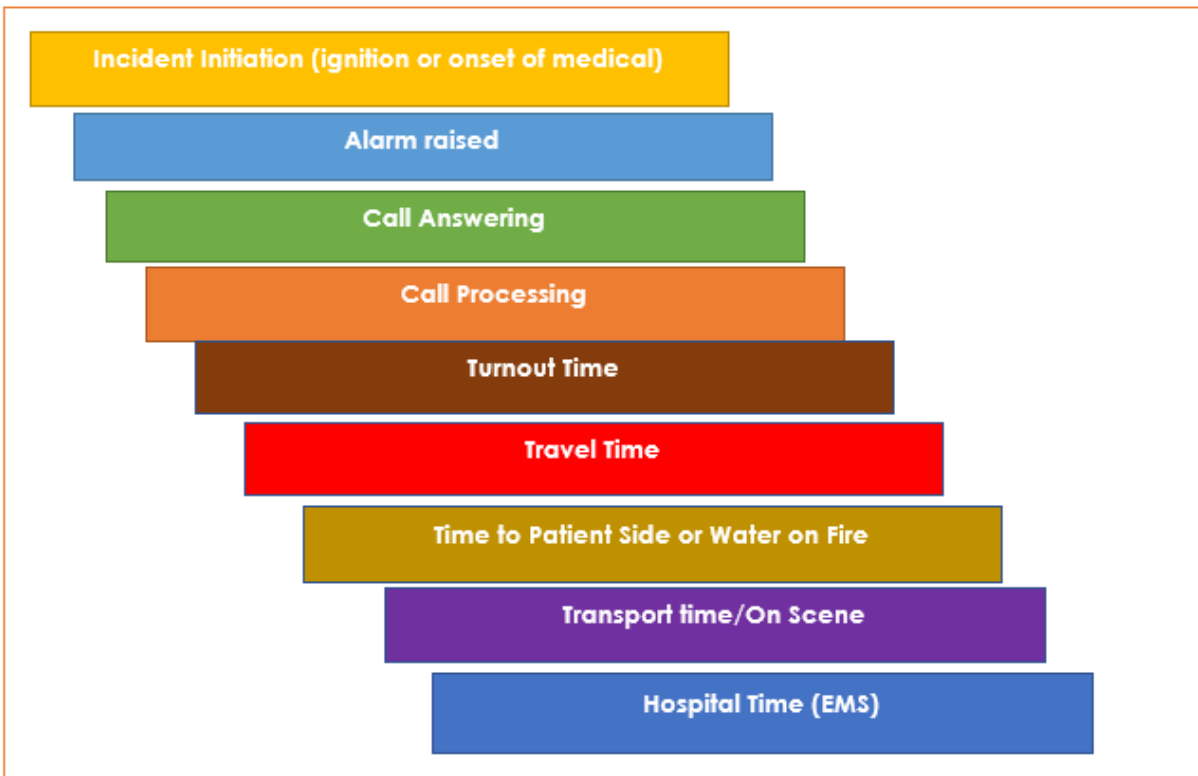
Adult Out-Of-Hospital Chain of Survival

The American Heart Association has looked at survival processes for Sudden Cardiac Arrest and quantified “beating, breathing, and bleeding” survival analytics. For each minute that passes after the onset of Sudden Cardiac Arrest (SCA), the chance of survival decreases for each minute that passes without intervention.

That is why we will look at your community training, your prevention in EMS and first response, how long the dispatch takes to process the call, how long it takes for turnout, and how long it takes for response. The key for SCA and emergency EMS responses is to arrive at the patient side or begin intervention via the dispatch center to the caller who has identified the onset of the medical issue within 10 minutes.

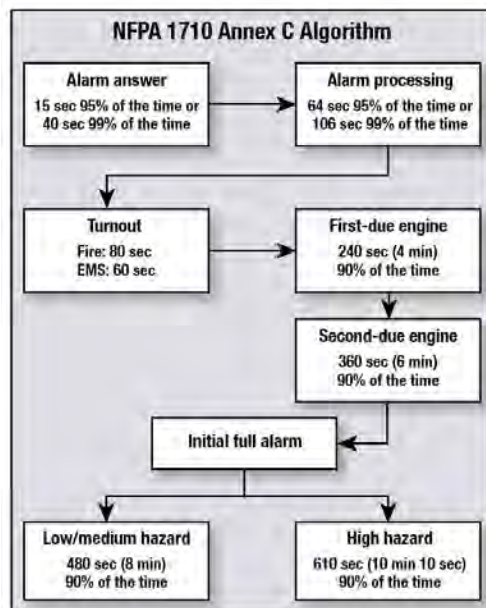
With fire response, “flashover” or the rapid combustion of all contents in a room of origin as they ignite – often producing explosive power – occurs within 8 to 10 minutes of ignition. Obviously, many factors can increase that time – particularly sprinkler ordinances, code inspection, code enforcement, use of non-combustible materials – and we will look at all of those. We will quantify how severe is the fire problem, how often is the fire confined to point, room, building, or area of origin and make recommendations how deployment and equipment might improve the outcomes.

Research has found, particularly with the pandemic, that businesses impacted by fire or disasters fail to survive and return to business in more than 30% of the incidents. If damage is severe or closure is prolonged, those numbers move towards 70, 90, and 100%. For that reason – NOT HAVING FIRES – is the best goal for a fire department. How a department achieves that goal is directly related to inspections, code enforcement, plan review, adherence to codes, sprinkler systems, and community engagement.



The time for a fire (or EMS) call to occur and for an alarm to be raised can vary from community to community. In urban, rural, and remote areas, it can be lengthy periods of time before a fire is noticed or a patient discovered. That time may significantly impact the outcome. So what could be done? This is where we will look at sprinklers, alarm systems, home alert devices and other tools as well as how they might be integrated into your system.

For call answering, we will benchmark your time against the latest editions of NFPA and APCO standards. In 2022, that time process changed. If your dispatch is not performing at these levels – or if they are not using metrics to constantly evaluate performance (particularly in emergencies requiring rapid response), your team needs to be able to intervene. CPSM finds many communities and dispatch centers do not regularly look at this critical step on the successful outcome matrix.



Our data team will next look at turnout time – is it excessive and then report to our operations team so that they can delve into the “whys.” The same for travel time which will be reviewed by our expert Geographic Information and Data division. Are your stations properly located? How might changes or new stations impact time? Why are key performance goals not being achieved and are there ways to positively improve deployment and response?

Dispatch and data – they establish the basic platform from which our other work and team members will engage.

Operations Review

Our operations team will be receiving the data report as will our client team. We want to ensure we have the information correct; the unit designation and other specifics in language understood and used by our client team; and that everyone is agreed on the interpretations of CAD factual performance.

Our operations SME's will be reviewing the information your upload while the data team performs its work. We will review your contracts, your agreements for mutual and automatic aid, your building codes, your enforcement reports, your standard of cover, risk assessment, and other documented policies.

Policy, procedure, Standard Operating Policies, and Standard Operating Guidelines direct the staffing and deployment of fire and EMS departments. However, many departments find it difficult to keep up with changes and demands while balancing calls for service and other tasks assigned to the department. Is your department keeping up with key personnel issues and are you conducting the necessary mandatory training required for emergency responders in fire and EMS?

Using information analyzed by the data team, an operational assessment by CPSM technical experts will be conducted to evaluate the deployment of emergency resources. We will quantify the workload – which is different from calls for service. Workload is the TIME it takes by all responders to manage a call for service. A call is simply an aggregate number that often lacks the detail to determine what demand it placed on an agency. We will quantify workload by station, by unit, by time of day, and by season.

The CPSM team will evaluate equipment, maintenance, records, policies, procedures, mapping, implemented technology and innovations, facilities, training, and staff to create recommendations for future service delivery.

The team may meet with elected and appointed officials as well as identified community leaders to determine the outcome they are seeking from deployment of resources.

Risk Assessment

Many agencies express a desire to benchmark and meet NFPA standards like 1710 and 1720. However, what they fail to conduct are all-hazard, all risk analysis. Both standards base deployment of resources on a linear approach to deployment of emergency resources.

A department needs to conduct an all-hazard, all risk assessment to locate stations, assemble the proper and necessary number of responders, and equip those responders with the proper tools to manage each hazard and risk.

The Operations team will look at the Community Risk Reduction (CRR) program that should be identifying and seeking solutions for all the emergencies for which a department has a high probability for a response. While the possibilities for emergency response by a department may be limitless, engaging in true Community Risk Reduction activities can “narrow” those possibilities to a more manageable list of probabilities.

Knowing and understanding those probable risks for your community is the key to a successful CRR program. What are the types of calls for service that have the greatest potential for causing harm in your community? That harm could be deaths or injuries or sickness for large groups of individuals, e.g., large apartment complexes or nursing homes or assisted living communities or entire communities. It could be adverse economic impact such as a devastating fire involving the primary employer for the community.

Increasingly, we're seeing the harm that comes to communities from a wide variety of sources such as flooding, wildfires, hazardous material accidents, earthquakes, severe weather events, and mass shooting events.



Where should your department be placing its Community Risk Reduction emphasis? Preventing fires is certainly a component of Community Risk Reduction, but it's not the only threat of harm to your community and it's not the only type of emergency to which your department will respond.

CPSM has worked with fire officials in the United Kingdom who have been researching the impact of CRR and change to "Standards of Response Coverage" (SOC) since 2000. The data shows that a robust CRR prevents fire (and EMS) incidents from occurring thereby improving the efficiency, effectiveness, and safety to the community as well as for responders.

Now, you might be asking yourself this question, "How are we supposed to do all of that and still is your department doing those activities because we have always done them, or because they make a difference?"

Is there a different way to do these activities that will provide at least the same result or maybe even a better one?

Obviously, a fire department cannot continue to add tasks to its workload without additional resources, e.g., time, money, and people. So, it's imperative that a department's Community Risk Reduction is focused on reducing the risk of harm for the greatest number of those probable situations for your community.

Best Practices

The CPSM Operations team review will incorporate best practices and analysis on each of the following for your department:

- Review each division and functional area of the department to include Fire Operations, Training, Community Risk Reduction, Emergency Management, EMS, fleet services, facilities, and provide planning recommendations based on NFPA and CPSE consensus standards.
- Analysis of each division and functional area of the department with a focus on the overall performance of the functional area and the management framework will include the following analysis areas:
 - Governance and Administration
 - Analyze Organizational Structure/Leadership Model
 - Analyze Organizational Guidelines, Policies and Procedures
 - Analyze Operational Staffing and Deployment
 - Analyze Programmatic Staffing and Deployment
 - Planning and Management Processes
 - Analyze Department Strategic Planning Process
 - Analyze performance measurements/goals.
 - Analyze Department Programs that support/link to Fire and EMS operations (to include administrative services, training and education, community risk reduction, emergency management, mutual aid, and other service delivery programs).

- Conduct a comprehensive review of the city's current Insurance Services Office, Public Protection Classification rating classification and accompanying Fire Suppression Rating Schedule.
- Analyze the current functional and operational service delivery model for fire and EMS services, contracted services, and provide planning recommendations on the fire and EMS service delivery model based on NFPA and CPSE consensus standards.
- Analyze current operational deployment of resources, the current operational staffing deployment model and provide recommendations based on NFPA and CPSE consensus standards.
- Conduct a Community Risk Assessment utilizing NFPA benchmarking and the 3-Axis Risk Calculation that links to the staffing and deployment of resources. If the department has current OVAP building scores, we will include those in the assessment.
- Evaluate the department's health and safety programs. Covid has shown the importance of comprehensive programs and a recent report by ICMA and the Center for Public Safety Excellence, Inc. (CPSE, Inc) showed this was of significant importance to responders.

Summary

The operations team will conduct an analysis of the Fire and EMS operational functions and guidelines of the department, the Fire and EMS operational service delivery model, review of contracted services in the unincorporate areas, and all internal and external factors influencing service delivery.

The internal information gathering process (work conducted during CPSM review of information provided through the document request, meetings, and the on-site visit) will include:

- Examination and analysis of the factors that enhance/impact the department's current service delivery model
- Examination and analysis of operational guidelines and their connection to the current service delivery model
- Discussion of the organization's strengths, weaknesses, opportunities, and threats as it relates to deployment of resources and response times
- Analysis of Fire Management Zones
- Analysis all-hazards that will lead to the completion of a Community Risk Assessment
- Analysis of Standard of Cover Concepts
- Exploration and analysis of various mission driven specialty fire protection and other response duties such as EMS ground transport, emergency management operations, and technical rescue

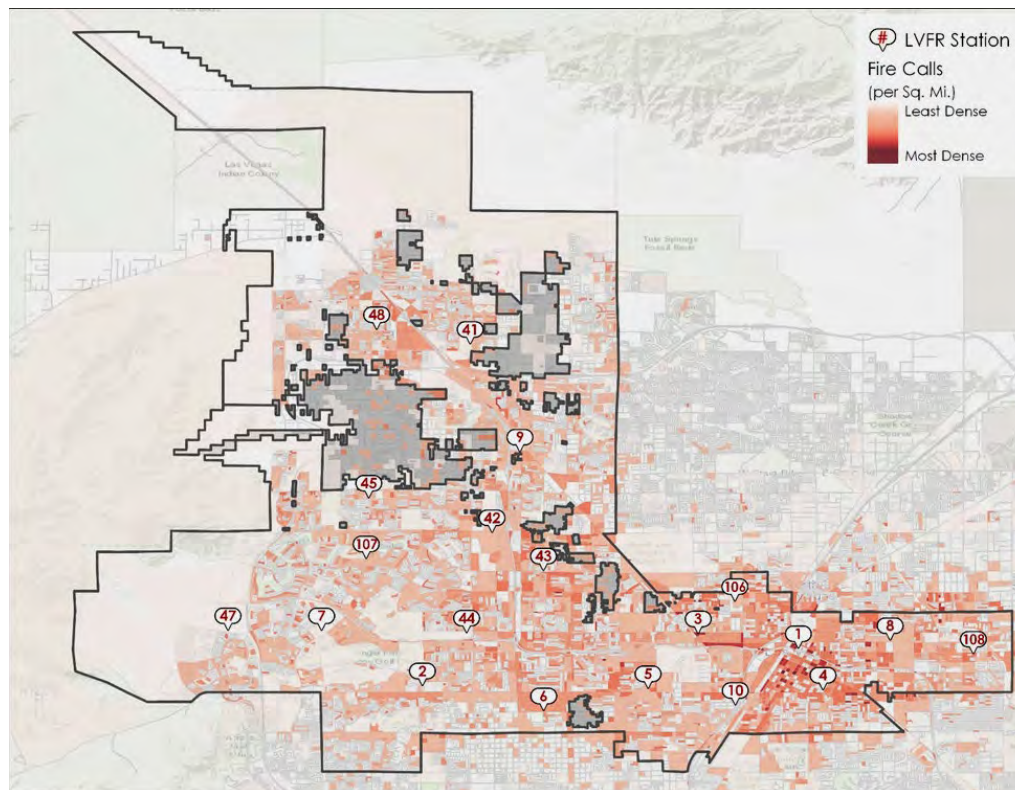
Presentation of Data and GIS Mapping

CPSM will present the data analysis in a series of tables and charts depicting the outcomes of the analysis. Using GIS we will conduct an analysis on call demand concentration of fire, EMS, and non-emergency calls. The results of the GIS analysis are presented in GIS mapping illustrations. Examples are identified in the following Tables and Figures:

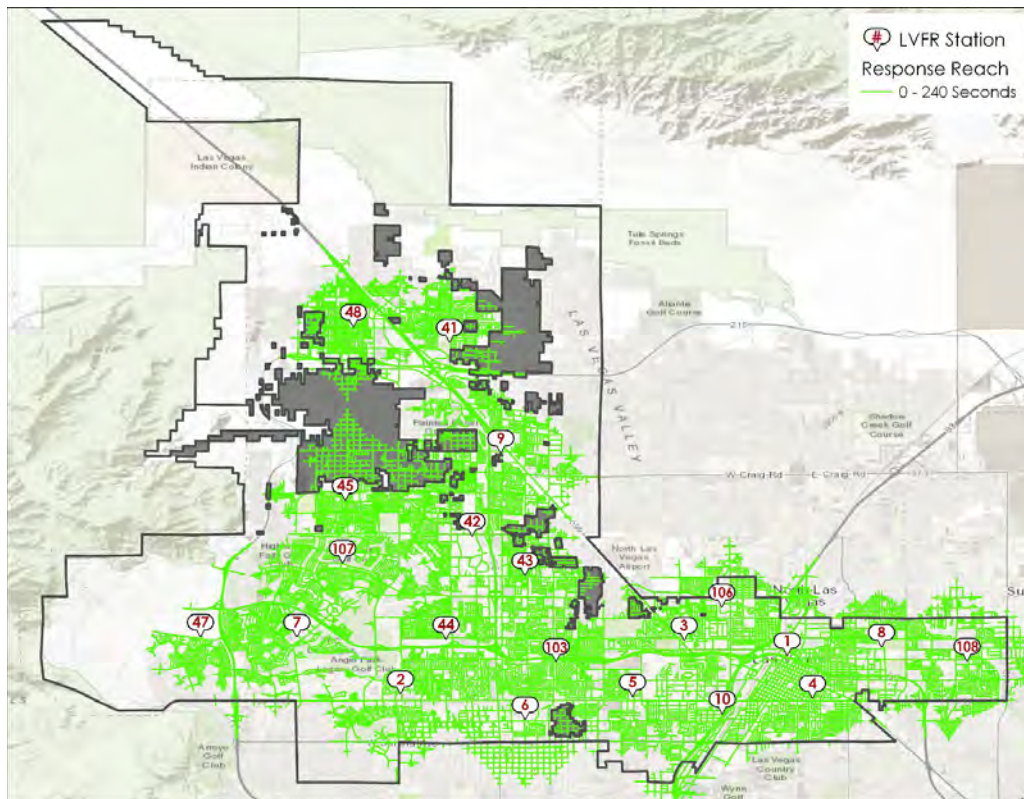
Call Types

Call Type	Number of Calls	Calls per Day	Call Percentage
Breathing difficulty	9,366	25.7	8.7
Cardiac and stroke	13,665	37.4	12.7
Fall and injury	14,747	40.4	13.7
Illness and other	29,426	80.6	27.3
MVA	7,280	19.9	6.7
Overdose and psychiatric	5,146	14.1	4.8
Seizure and unconsciousness	11,070	30.3	10.3
EMS Total	90,700	248.5	84.1
False alarm	1,646	4.5	1.5
Good intent	526	1.4	0.5
Hazard	893	2.4	0.8
Outside fire	2,101	5.8	1.9
Public service	1,815	5.0	1.7
Structure fire	993	2.7	0.9
Fire Total	7,974	21.8	7.4
Canceled	9,235	25.3	8.6
Total	107,909	295.6	100.0

Density of Fire and EMS Calls



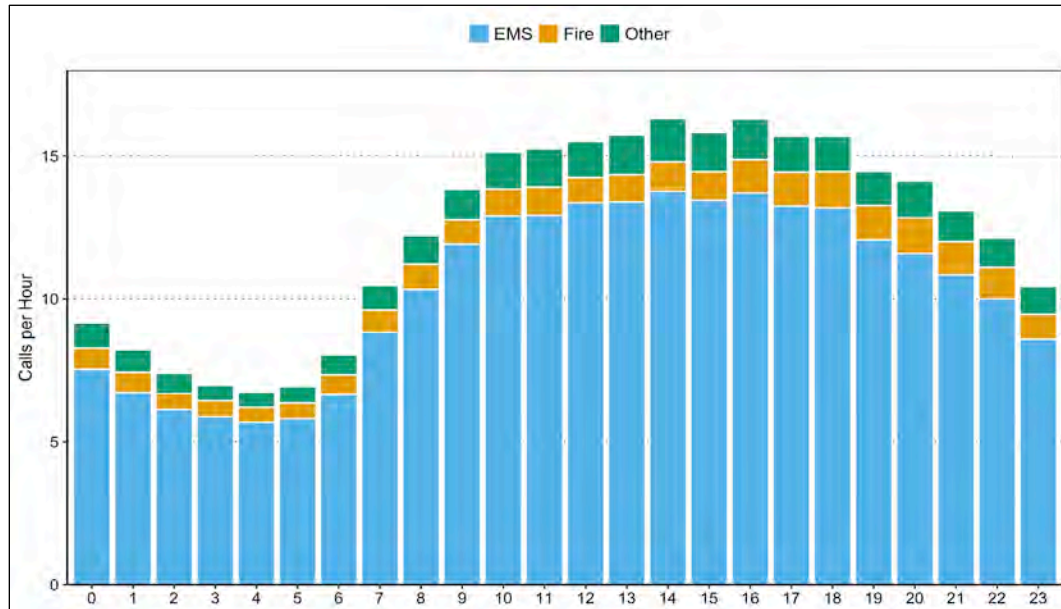
240-Second Travel Time Bleed Map, City-wide Analysis



90th Percentile Response Time of First Arriving Unit, by Call Type (Minutes)

Call Type	Dispatch	Turnout	Travel	Total	Number of Calls
Breathing difficulty	2.4	2.0	7.3	10.6	8,053
Cardiac and stroke	2.8	1.9	7.3	10.9	11,685
Fall and injury	3.3	2.0	9.0	13.0	12,304
Illness and other	3.1	2.0	9.2	12.8	23,551
MVA	2.2	1.7	7.1	10.1	6,116
Overdose and psychiatric	10.2	2.0	8.5	18.2	3,701
Seizure and unconsciousness	3.0	1.9	7.9	11.6	9,840
EMS Total	3.1	1.9	8.4	12.2	75,250
False alarm	2.7	1.9	9.8	13.2	1,495
Good intent	3.0	1.8	9.8	12.7	410
Hazard	3.1	1.8	9.8	14.1	630
Outside fire	2.3	1.6	7.4	10.4	1,723
Public service	3.0	1.9	9.1	12.7	1,044
Structure fire	2.9	1.6	6.0	9.2	639
Fire Total	2.8	1.8	8.9	12.2	5,941
Total	3.0	1.9	8.4	12.2	81,191

Call Demand by Hour of Day



EMS Transport Analysis

Call Type	Number of Calls			Conversion Rate
	Non-transport	Transport	Total	
EMS response	756	3,582	4,338	82.6
MVA	131	167	298	56.0
EMS Total	887	3,749	4,636	80.9
Fire & Other Total	1,504	197	1,701	11.6
Total	2,391	3,946	6,337	62.3

Call Type	Average Time Spent per Run				Number of Runs
	On Scene	Traveling to Hospital	At Hospital	Deployed	
EMS response	11.2	11.7	21.8	51.3	3,584
MVA	12.1	16.1	27.0	62.9	185
EMS Total	11.3	11.9	22.0	51.8	3,769
Fire & Other Total	12.4	18.1	29.5	71.7	201
Total	11.3	12.2	22.4	52.8	3,970

EMS

Emergency Medical Services

EMS agencies across the country are being stressed to the limit. Staffing shortages, skyrocketing expenses, rising response volumes - many for low-acuity responses - supply chain disruptions and economic models that only reimburse for ambulance transport are converging to cause failures for EMS systems in many communities.

CPSM's EMS subject matter experts are rising to these challenges since many are actively working through these issues every day! Some are internationally recognized for their approach to rationale, data-driven, and patient-centered approaches to effective and efficient service delivery.

We start each project with a detailed analysis of EMS call data to provide a comprehensive review of emergency medical services including a detailed analysis of workloads and response times. The analysis of the workloads begins with an in-depth study of the types of calls handled and their severity. The goal is to identify the fundamental nature of the emergency medical challenge faced by the community and the EMS agency. We pay special attention to the most critical emergencies such as heart attack and serious vehicular accidents. We also look at the clinical, operational, financial, and patient experiential performance of the EMS agency, whether it's fire-based, 3rd service governmental, hospital-based, or contracted. We provide and evaluate the options and impacts of providing EMS care at the EMT, Intermediate or Paramedic levels.

For each EMS call type, we determine the time spent on-scene and the number of personnel who worked the scene. The data is aggregated to determine an overall average total time spent on EMS calls. We also determine how much EMS calls contribute to the workload of first response and transport resources. We illustrate any dramatic variations by time of day and day of week, as well as seasonal variations.

While data related to responses, response times and clinical performance are important, in today's environment, they are not the only things to be considered for the delivery of EMS. Alternate delivery models such as community paramedicine, treat and non-transport programs, transport to alternate destinations, and resourceful economic models are solutions that CPSM's SME's have helped implement in many communities as mitigation factors to improve EMS delivery and effectiveness.

Our operations team for EMS will go beyond simply looking at the TIME your service took to respond and drill down to determine cost analytics. We would note that most requests for proposals do not include this step but it may be important to a full 360 degree review of your EMS services. Examples of those are:

Total Annual Cost

Cost per Unit Hour

Total costs ÷ *Produced* or *Scheduled* Unit Hours

Cost per Response

Total costs ÷ Responses

Cost per Transport

Total costs ÷ Transports

Cost per Capita

Total costs ÷ Population Served

Fixed vs. Variable Cost Categorization

Cost to manage the service | Stair step costs | Cost to run a call

Creating a clinical report card

Santa Cruz County First Responder Report Card				
Criterion	2016	Goal	Weighted Value	Score
Cardiac Arrest				
End-tidal CO2 monitored	38.9%	90.0%	4.0%	1.73
Complete documentation (see System QI P&P)	90.0%	90.0%	4.0%	4.00
Respiratory Distress				
Mental Status assessed/documented	90.9%	90.0%	4.0%	4.00
bronchodilator administration for wheezing within 10 minutes	72.0%	85.0%	4.0%	3.39
Airway Management				
End-tidal CO2 performed on any successful ET intubation	38.8%	90.0%	4.0%	1.72
Other confirmation techniques (e.g., visualize chords, chest rise, auscultation)	90.0%	90.0%	4.0%	4.00
Complete documentation (see System QI P&P)	90.0%	90.0%	4.0%	4.00
STEMI				
ASA administration within 5 minutes	56.7%	90.0%	4.0%	2.52
SpO2 recorded	98.3%	95.0%	4.0%	4.00
12 LEAD EKG acquired within 5 minutes	35.0%	80.0%	4.0%	1.75
Complete documentation (see System QI P&P)	90.0%	90.0%	4.0%	4.00
Stroke				
Time last seen normal	0.0%	90.0%	4.0%	-
Use of a prehospital BEFAST stroke scale	58.9%	90.0%	4.0%	2.42
Complete documentation (see System QI P&P)	90.0%	90.0%	4.0%	4.00
Trauma				
PAM scale recorded	60.8%	90.0%	4.0%	2.70
Complete documentation (see System QI P&P)	90.0%	90.0%	4.0%	4.00
Safety				
Protocol compliance rate per chart review (high acuity, AMA/RAS, & random)	90.0%	90.0%	10.0%	10.00
Patient Satisfaction (use standardized questions to allow inter-agency comparison)				
Degree to which the firefighters took your problem seriously	96.0%	94.0%	4.0%	4.00
How well the firefighters explained things in a way you could understand	95.5%	95.4%	4.0%	4.00
Skill of the firefighters	94.3%	94.1%	4.0%	4.00
Extent to which the firefighters cared for you as a person	96.0%	94.1%	4.0%	4.00
Professionalism of the firefighters	95.0%	94.1%	4.0%	4.00
ePCR Submission Compliance				
Transfer of Care (TOC) critical ePCR elements completed within 10 minutes of patient departure from scene	80.0%	90.0%	3.0%	2.67
Full ePCR completed within 24 hours	100.0%	100.0%	3.0%	3.00
Total Standards			100.0%	84.10
Green: Meet/Exceed Goal				
Orange: 0-20% Below Goal				
Red: >20% Below Goal				
Criteria				
1) Measurable				
2) Must be improvable				
3) Reflect value to the patient				

EMS is an expensive and challenging component of service delivery for communities. Like fire, finding employees is becoming more and more difficult. We will look at recruitment, retention, training, human resources, pay scales, and other information that may be impacting your team.

EMS is also about managing using key performance indicators (KPI's). As we identified in this section, just looking at response time fails to provide a complete picture of how your service is responding, how it will respond, and what investments need to occur to enable it to achieve a high performing status. Included in our review is a look at your payer mix, your collection process, and what are your costs for service.

FIRE/EMS ANALYSIS OF RESOURCE EXHAUSTION

Fire departments often speak of the “worst case scenario” or “resource exhaustion” when developing staffing and deployment plans. A comprehensive all-hazard Standard of Response Coverage plan requires resource exhaustion to be addressed. An agency can never staff for the worst-case scenario because whatever situation can be envisioned, there can always be a more serious event that can be planned.

What is needed to make staffing and apparatus decisions is a clear understanding of what levels of demand can reasonably be expected over specific periods of time in a specific jurisdiction. For example, what are the busiest calls for service times over a one-year period and what levels of staffing and apparatus were needed to handle this workload?

To answer this question requires a detailed analysis of calls for service, broken down minute by minute, identifying which units were busy and how many units remained available to respond to a new call for service. More sophisticated analysis can take into consideration available mutual aid resources.

There is significant variability in the number of calls from hour to hour and the frequency of simultaneous or overlapping calls. One special concern relates to the fire resources available for the highest workload hours. We tabulate the data for each of 8760 hours in the year. We identify how often the fire department will respond to more than a specified number of calls in an hour. In studying call totals, it is important to remember that an EMS run typically lasts, on average, a different amount of time than a fire category call and this will vary depending upon whether EMS transport is provided.

Example of “Resource Exhaustion Analysis”

What follows is an example of a CPSM study of a fire department with 17 units staffed all the time. For most of these high-volume hours, the total workload of all units combined is equivalent to 3 or fewer units busy the entire hour. For the ten highest volume hours, 0.1% of the hours, the total workload exceeded 3 hours. These high-volume hours occurred between 10 a.m. and 9 p.m.

The hour with the most work was between 1000 and 1100 on September 12, 2009. The 21 calls involved 34 runs (a “call” is an incident and a “run” is a unit response). The combined workload was 417 minutes. This is equivalent to 7 firefighting units being busy the entire hour. However, in the city there are 17 units staffed all the time. During the worst portion of the hour, there were always at least 5 units still available to respond immediately. Only 5 of the 17 units were busy more than 30 minutes during this hour.

The hour with the most calls was between 1400 and 1500 on October 13, 2009. The 23 calls involved 28 runs. The combined workload was 379 minutes. This is equivalent to between 6 and 7 firefighting units being busy the entire hour. However, in the city there are 17 units staffed all the time. During the worst portion of the hour, there were always at least 7 units still available to respond immediately. Only 3 of the 17 units were deployed more than 30 minutes during this hour.

Frequency Distribution of the Number of Calls

Number of Calls in an Hour	Frequency
0-5	6397
6-10	2263
11-15	98
16 or more	2

Observations:

- A total of 6,397 hours (73%) in a year have received 0-5 calls.
- A total of 2,263 hours (25.8%) in a year have received 6-10 calls.
- A total of 100 hours (1.2%) in a year have received 11 or more calls.

Top Ten Hours with the Most Calls Received

HOURS	Number of Calls	Number of Runs	Total Busy Deployed
13-Oct-2009 1400	23	28	379
12-Sep-2009 1000	21	34	417
20-Jun-2009 2000	15	16	252
02-Feb-2009 1900	15	16	213
10-Jul-2009 1000	14	15	226
15-Feb-2009 1900	14	20	317
29-Jul-2009 1700	14	18	274
23-Feb-2009 1100	14	15	180
17-Mar-2009 1500	14	17	193
01-Mar-2009 1800	13	14	185

Deployed Minutes by Unit for the Hour between 10 a.m. and 11 a.m. on 12-Sep-2009

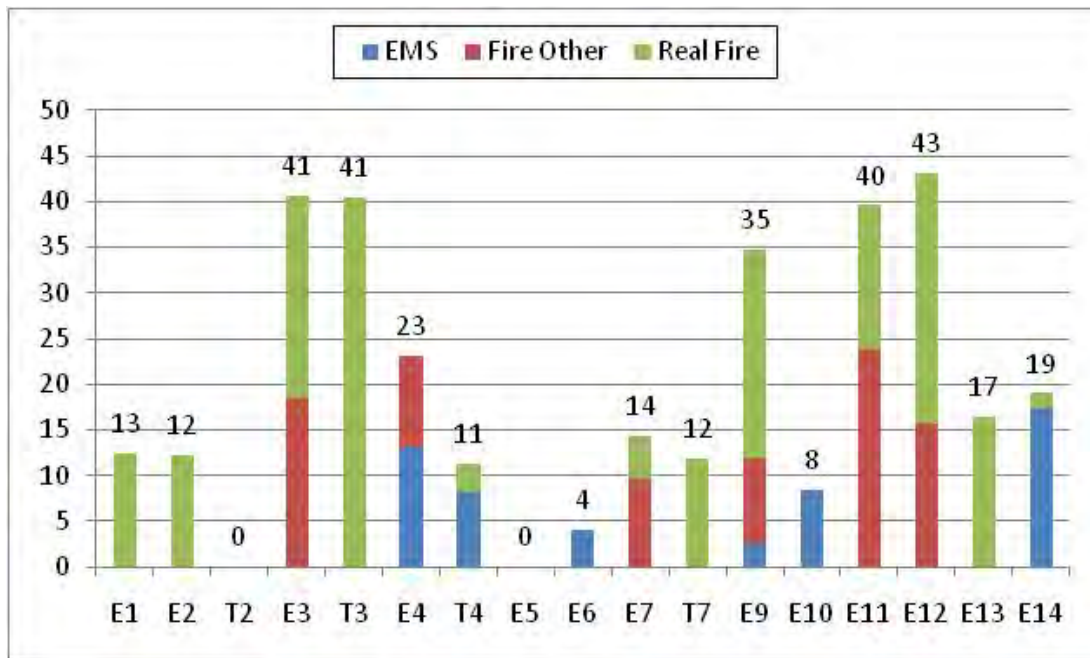
Station	1	2		3		4		5	6	7		9	10	11	12	13	14	Number of Units	
Unit	E1	E2	T2	E3	T3	E4	T4	E5	E6	E7	T7	E9	E10	E11	E12	E13	E14	Busy	Free
0-5																	3.3	1	16
5-10		1.9		0.7													5	3	14
10-15	3.1	5		5								3.7		0.6	4.8		5	7	10
15-20	5	4.3		5	0.5							5		5	4.4		4	8	9
20-25	4.4	1.1		4.4	5							3.8		5	5			7	10
25-30				5	5							5		5	5			5	12
30-35				4.6	5							5		5	2.7			5	12
35-40				5	5	3.1						5		5	1.3			6	11
40-45				5	5	5				1.2		0.7	0.7	4.9	5	1.6		9	8
45-50				5	5	5	1.8			5	1.8		1.9	1.6	5	4.9	1.7	11	6
50-55				0.9	5	5	4.5		3.3	5	5	2.5	0.8	2.5	5	5		12	5
55-60					5	5	5		0.8	3.1	5	4.1	5	5	5	5		11	6
Total	12.5	12.3	0.0	40.6	40.5	23.1	11.3	0.0	4.1	14.3	11.8	34.8	8.4	39.6	43.2	16.5	19.0		

Note: The numbers in the cells are the deployed minutes within the 5-minute block. The cell values greater than 2.5 are coded as red.

Observations:

- Between 10 a.m. and 11 a.m. on September 12, 2009, the fire department responded to 21 calls and dispatched 34 units to these calls.
- In the city, there are 17 units staffed all the time. During the worst portion of this hour, there were always at least 5 units still available to respond immediately. Only 5 of the 17 units were deployed more than 30 minutes during this hour.

Workload by Unit and Call Type for the Hour between 10 a.m. and 11 a.m. on 12-Sep-2009



Observations:

- Engine companies E3, E11 and E12 were deployed more than 40 minutes during this hour.
- Truck T3 was busy more than 40 minutes during this hour.
- Eleven units were busy less than 20 minutes. Two units responded to no calls.

Overlapped Call Analysis

Scenario	Frequency	Percent
No Overlapped Call	1,536	48.5
Overlapped with another call	1,113	35.2
Overlapped with two calls	388	12.3
Overlapped with three calls	102	3.2
Overlapped with four or more calls	26	0.8

Observations:

- 48.5 percent of emergency incidents had no overlapped call.
- 35.2 percent of emergency incidents overlapped with another call.
- 12.3 percent of emergency incidents overlapped with two calls.
- 4.0 percent of emergency incidents overlapped with three or more calls.

COMMUNITY FOCUSED PLANNING

Using the forensic data and operational analysis, CPSM can advance your department to the next level with a community focused, community engaged strategic plan development. While not part of our basic work, this next step directs your fire and EMS for the future. We can provide include a pricing for this additional step if requested.

A project team comprised of highly capable experts with developing strategic plans, particularly experienced with fire, rescue, EMS, and strategic plan development, will take the hand-off from our data and operations experts.

CPSM utilizes current and former fire, rescue, and EMS chief officers who have prior experience serving as practitioners, line officers, and middle managers. This ensures that our staff have extensive relevant knowledge, hands-on experience, and understanding of all aspects of fire, rescue, and EMS operations. Their expertise has been applied to similar projects that CPSM has performed for its clients. Our comprehensive fire, rescue, and EMS analyses have yielded thousands of recommendations for enhancing the effectiveness and efficiency of department management, operations, staffing, training, data management, fleet management, community relations, and more.

CPSM's proposed project professionals will be available to support the project as needed through completion. CPSM's subject matter experts have a long history with the firm, which means staff turnover is not a significant concern. Based on our experience, a dedicated, consistent project team works more efficiently and effectively, ensuring both continuity of project knowledge and budget management. Because we have a stable workforce, our project team members have a history of collaborating on similar projects.

CPSM performs all work using in-house resources and does not subcontract any portion of the work scope. The firm has adequate in-house subject matter experts to perform multiple concurrent public safety studies at any time.

- Establishment of near - and long-term goals (1-5 years).
- Exploration of various strategic alternative approaches to accomplish the goals in the identified plan years.

From the planning process, specific Core Strategies will be developed and are accompanied by several components that deliver overall strategies and key measurements and include:

- Core Strategies: necessary to help achieve goals and outcomes. The core strategies must be applied to all situations both when the organization is working externally within the Community (outward focus) and when we are working internally within the organization (inward focus).
- Desired Outcome: Describes where the organization wants to be.
- Success Indicators: Describes how the organization will know when they are moving toward achieving the strategy.
- Performance/Key Measures: Are the concrete actions that validate the indicators

Following the data and operations' team, our Strategic Plan Expert will arrange an initial virtual meeting with key staff of the department to discuss the scope of work of this project, as well as begin the stakeholder dialogue that will drive the project's success.

CPSM will utilize our earlier work with particular emphasis on key tables, charts, and further GIS analysis to expand on demand, concentration, resource exhaustion, and opportunities for improvement.

We will involve key community members (identified by our client team) to engage and extract knowledge. Elected officials, appointed officials, other departments, and community leaders will engage to ensure expectations and goals match.

PROPOSED FEES

The quotation of fees and compensation shall remain firm for a period of 90 days from this proposal submission.

CPSM will conduct the analysis of the fire/EMS department for \$49,760 exclusive of travel. The project would be billed in three installments: 40% upon contract signing; 40% with delivery of the draft fire data analysis; and the remaining 20% with delivery of the draft final report. Following delivery of the draft reports, the city will have 30 days to provide comments as to accuracy, and a final report will be delivered within 30 days of the comment period.

Because of the possibility of Covid restrictions, CPSM will bill travel expenses at actual cost with no overhead or administrative fees applied. Should travel be restricted, CPSM has found work can be done using web-based platforms if necessary but that charrettes and focus groups lose some of the robust participation developed through in-person interaction.

Deliverables

Draft reports will be provided for department review in electronic format.

To be ecologically friendly, CPSM will deliver the final report in computer readable material either by email, CD or both. The final reports will incorporate the operational findings? as well as data analysis. Should the municipality desire additional copies of the report, CPSM will produce and deliver whatever number of copies is requested, which will be invoiced at cost.

Should the local government desire additional support or in-person presentation of findings, CPSM will assign staff for such meetings at a cost of \$2,500 per day/per person plus travel expenses.

CONCLUSION

Part of ICMA's mission is to assist local governments in achieving excellence through information and assistance. Following this mission, Center for Public Safety Management, LLC acts as a trusted advisor, assisting local governments in an objective manner. CPSM's experience in dealing with public safety issues combined with its background in performance measurement, achievement of efficiencies, and genuine community engagement, makes CPSM a unique and beneficial partner in dealing with issues such as those being presented in this proposal. We look forward to working with you.

PAST & CURRENT ENGAGEMENTS

LOCALITY	ST	PROJECT DESCRIPTION
Edmonton	AB	Comprehensive Analysis of Fire Services.
Leduc	AB	Fire Consolidation Plan
Leduc	AB	Comprehensive Analysis of Fire Services.
Kenai	AK	Comprehensive Analysis of Fire Services
Anniston	AL	Comprehensive Analysis of Police Services
Auburn	AL	Comprehensive Analysis of Fire Services
Auburn	AL	Comprehensive Analysis of Police Services
Dothan	AL	Comprehensive Analysis of Police Services
Casa Grande	AZ	Comprehensive Analysis of Police Services
Florence	AZ	Comprehensive Analysis of Police Services
Lake Havasu City	AZ	Comprehensive Analysis of Police Services
Lake Havasu City	AZ	Comprehensive Analysis of Fire Services
Florence	AZ	Comprehensive Analysis of Police Services
Pinal County	AZ	Comprehensive Analysis of Sheriff's Office
Prescott	AZ	Comprehensive Analysis of Fire Services
Prescott	AZ	Comprehensive Analysis of Police Services
Queen Creek	AZ	Police Strategic Plan
Queen Creek	AZ	Comprehensive Analysis of Fire services
Scottsdale	AZ	Comprehensive Analysis of Police Services
Tucson	AZ	Comprehensive Analysis of Police Services
Youngtown	AZ	Comprehensive Analysis of Police Services
Alameda	CA	Comprehensive Analysis of Fire Services
Alameda	CA	Comprehensive Analysis of Police Services
Burbank	CA	Analysis of Investigations Workload / Staffing
Carlsbad	CA	Comprehensive Analysis of Police Services
El Centro	CA	Comprehensive Analysis of Police Services
Fairfield	CA	Comprehensive Analysis of Police Services
Greenfield	CA	Comprehensive Analysis of Police Services
Hermosa Beach	CA	Comprehensive Analysis of Fire services
Hermosa Beach	CA	Comprehensive Analysis of Police Services
Laguna Woods	CA	Review of Sheriff's Office Service
Milpitas	CA	Comprehensive Analysis of Police Services
Morgan Hill	CA	Comprehensive Analysis of Police Services
Morgan Hill	CA	Comprehensive Analysis of Fire Services
Palm Desert	CA	Comprehensive Analysis of Fire Services
Palo Alto	CA	Comprehensive Analysis of Fire Services

Placentia	CA	Comprehensive Analysis of Police Services
Rohnert Park	CA	Comprehensive Analysis of Police Services
San Diego County	CA	EMS Study
San Jose	CA	Fire Study Review
San Jose	CA	Police Study Review
San Mateo	CA	Dispatch Operations Review
Santa Ana	CA	Comprehensive Analysis of Police Services
Santa Clara	CA	Comprehensive Analysis of Police Services
Santa Cruz	CA	Comprehensive Analysis of Police Services
Santa Monica	CA	Police Chief Selection
Santa Rosa	CA	Performance Measurement Analysis
Stockton	CA	Comprehensive Analysis of Police Services
Stockton	CA	Comprehensive Analysis of Fire Services
Union City	CA	Comprehensive Analysis of Fire Services
Whittier	CA	Comprehensive Analysis of Police Services
Woodlands	CA	Police Chief Selection
Yuba City	CA	Comprehensive Analysis of Fire Services
Yuba City	CA	Comprehensive Analysis of Police Services
Federal Heights	CO	Comprehensive analysis of Police Services
Federal Heights	CO	Comprehensive analysis of Fire Services
Littleton	CO	Comprehensive Analysis of Fire Services
Steamboat Springs	CO	Comprehensive Analysis of Fire Services
Cheshire	CT	Police Management Review
Southington	CT	Comprehensive Analysis of Fire Services
Dover	DE	Comprehensive Analysis of Police Department
Dover	DE	Comprehensive Analysis of Fire Services
Alachua	FL	Expert Witness Law Enforcement Issues
Tamarac	FL	Analysis of Sheriff's Contract Services
Inverness	FL	Comprehensive Analysis of Fire Services
Delray Beach	FL	Comprehensive Analysis of Police Services
Delray Beach	FL	Comprehensive Analysis of Fire Services
Dunedin	FL	Police Consolidation Review
Hollywood	FL	Police Internal Affairs Review
Indian River Shores	FL	Public Safety Staffing Analysis
Indian River Shores	FL	Public Safety Study
Jacksonville Bch	FL	Police Chief Selection
Jupiter	FL	Police and Fire
Hobe Sound	FL	Public Safety Consolidation
Kenneth City	FL	Comprehensive Analysis of Police Services
Miami Beach	FL	Comprehensive analysis of Fire Services
Naples	FL	Presentation
North Port	FL	Comprehensive Analysis of Police Services

Orlando	FL	Expert Witness Law Enforcement Issues
Land O' Lakes	FL	Comprehensive analysis of Fire Services
New Port Richey	FL	Sheriff Budget Analysis
Pompano Beach	FL	Comprehensive Analysis of Police Services
Venice	FL	Comprehensive Analysis of Fire Services
Kingsland	GA	Comprehensive Analysis of Fire Services
Kingsland	GA	Fire Consolidation St Marys
Woodbine	GA	Police Consolidation Study
Garden City	GA	Preliminary Analysis Public Safety Merger
Johns Creek	GA	Analysis of Fire Services
Kingsland	GA	Fire Consolidation Study
Sandy Springs	GA	Comprehensive Analysis of Police Department
St. Marys	GA	Fire Consolidation Study
Boone	IA	Public Safety Consolidation
Boone	IA	Performance Measurement of Municipal
Hayden	ID	Comprehensive Analysis of Police Services
Jerome	ID	Analysis of Police Services
Algonquin	IL	Performance Measurement Analysis
Glenview	IL	Comprehensive Analysis of Police & Fire Services
Glenview	IL	Comprehensive Analysis of Police Services
Glenview	IL	Dispatch Operations Review
Highland	IL	Comprehensive Analysis of Fire Services
Highland Park	IL	Comprehensive Analysis of Fire Consolidation
Highwood	IL	Comprehensive Analysis of Fire Consolidation
Lake Bluff	IL	Analysis of Fire Consolidation
Lake Bluff	IL	Fire Data Review
Lake Forest	IL	Analysis of Fire Consolidation
Lake Zurich	IL	Comprehensive Analysis of fire services
Naperville	IL	Workload, Staffing & Schedule Design
Roseville	IL	Comprehensive Analysis of Police Services
Skokie	IL	Police Study
Western Springs	IL	Comprehensive Analysis of Police Services
Indianapolis	IN	Police Workload & Deployment Services
Plainfield	IN	Comprehensive Analysis of Police Services
Topeka	KS	Preliminary review of Fire Department
Northborough	MA	Comprehensive Analysis of Police Services
Northborough	MA	Comprehensive Analysis of Fire Services
Cambridge	MD	Performance Measurement Study
Annapolis	MD	Comprehensive Analysis of Police Services
Ocean City	MD	Dispatch Operations Review
Ann Arbor	MI	Comprehensive Analysis of Fire Services
Auburn Hills	MI	Comprehensive Analysis of Fire Services

Auburn Hills	MI	Comprehensive Analysis of Police Services
Benton Harbor	MI	Public Safety Consolidation
Chesterfield	MI	Comprehensive Analysis of Police Services
Lansing	MI	Comprehensive Analysis of Police Services
Lansing	MI	Comprehensive Analysis of Fire Services
Detroit	MI	Police Department Review
Douglas	MI	Comprehensive Analysis of Police Services
Flint	MI	Comprehensive Analysis of Fire Services
Flint	MI	Comprehensive Analysis of Police Services
Grand Rapids	MI	Comprehensive Analysis of Police Services
Grand Rapids	MI	Comprehensive Analysis of Fire Services
Kingsley	MI	Comprehensive Analysis of Fire Services
Interlochen	MI	Comprehensive Analysis of Fire Services
Grosse Pointe	MI	Public Safety Consolidation
Grosse Pointe	MI	Public Safety Consolidation
Hamtramck	MI	Police Study
Grand Rapids	MI	Comprehensive Analysis of Police & Fire Services
Grand Rapids	MI	Analysis of Police Services Consolidation
Kentwood	MI	Analysis of Fire Services Consolidation
Flint	MI	Comprehensive Analysis of Police Services
Flint	MI	Comprehensive analysis of Fire Services
Novi	MI	Comprehensive Analysis of Police Services
Novi	MI	Comprehensive analysis of Fire Services
Kalamazoo	MI	Police Workload / Contract for Services Analysis
Petoskey	MI	Public Safety Consolidation
Plymouth	MI	Fire Services Consolidation
Plymouth	MI	Fire Service Analysis
Royal Oak	MI	Comprehensive Analysis of Police Services
Royal Oak	MI	Comprehensive Analysis of Fire Services
Saginaw	MI	Comprehensive Analysis of Police Services
Saginaw	MI	Comprehensive Analysis of Fire Services
Vicksburg	MI	Financial Analysis of Fire Authority
Saint Joseph	MI	Public Safety Consolidation
Sturgis	MI	Public Safety Analysis
Troy	MI	Comprehensive Analysis of Police Services
Troy	MI	Review of Fire Administration and Inspections
Wyoming	MI	Comprehensive Analysis of Police Services 2012
Wyoming	MI	Comprehensive Analysis of Fire Services 2012
Wyoming	MI	Comprehensive Analysis of Police Services 2009
Wyoming	MI	Comprehensive Analysis of Fire Services 2009
Mankato	MN	Public Safety Study
Moorhead	MN	Comprehensive Analysis of Fire Services

Saint Cloud	MN	Police Strategic Planning Review
Saint Cloud	MN	Comprehensive Analysis of Police Services
Brentwood	MO	Comprehensive Analysis of Police Services
Saint Louis	MO	Comprehensive Analysis of Fire Services
Saint Louis	MO	Comprehensive Analysis of Police Services
Saint Louis	MO	Standard of Response / risk assessment
Bozeman	MT	Fire Protection Master Plan
Bald Head Island	NC	Public Safety Staffing Review
Bald Head Island	NC	Public Safety Consolidation
Chapel Hill	NC	Comprehensive Analysis of police services
Cornelius	NC	Fire Consolidation Study
Davidson	NC	Fire Consolidation Study
Greenville	NC	Comprehensive Analysis of Fire Services
Oxford	NC	Comprehensive Analysis of Fire Services
Oxford	NC	Comprehensive Analysis of Police Services
Rocky Mount	NC	AED Grant assistance
Rocky Mount	NC	Comprehensive Analysis of Police Services
Grand Island	NE	Comprehensive Analysis of Police Services
Grand Island	NE	Comprehensive Analysis of Fire Services
South Sioux City	NE	Fire Services Strategic Plan
East Brunswick	NJ	EMS Study
Oradell	NJ	Comprehensive Analysis of Police Services
Paterson	NJ	Comprehensive Analysis of Police Services
South Orange	NJ	Comprehensive Analysis of Police Services
Westwood	NJ	Comprehensive Analysis of Police Services
Bernalillo	NM	Comprehensive Analysis of Fire Services
Las Cruces	NM	Comprehensive Analysis of Fire Services
Las Cruces	NM	Comprehensive Analysis of Police Services
Ruidoso	NM	Comprehensive Analysis of Police Services
Boulder City	NV	Police Organizational Study
Henderson	NV	Comprehensive Analysis of Police Services
Las Vegas	NV	Comprehensive Analysis of Fire Services
North Las Vegas	NV	Fire Workload Analysis
Bria Cliff Manor	NY	Analysis of police consolidation
Garden City	NY	Comprehensive Analysis of Fire Services
Long Beach	NY	Comprehensive Analysis of Fire and EMS services
Armonk	NY	Comprehensive Analysis of Police Services
Oneonta	NY	Comprehensive Analysis of Fire and EMS services
Oneonta	NY	Fire Apparatus Review
Orchard Park	NY	Comprehensive Analysis of Police Services
Ossining	NY	Analysis of police consolidation
Ossining	NY	Analysis of police consolidation

Rye	NY	Police Chief Selection
Watertown	NY	Comprehensive Analysis of Fire Services
Cincinnati	OH	Police Dispatch Review
Dayton	OH	Police Internal Affairs Review
Huron	OH	Comprehensive Analysis of Police Services
Huron	OH	Comprehensive Analysis of Fire Services
Independence	OH	Comprehensive Analysis of Police Services
Independence	OH	Comprehensive Analysis of Fire Services
Sandusky	OH	Fire Study
Sandusky	OH	Police Study
Broken Arrow	OK	Comprehensive Analysis of Police Services
Broken Arrow	OK	Comprehensive Analysis of Fire Services
Edmond	OK	Comprehensive Analysis of Police Services
Jenks	OK	Comprehensive Analysis of Police Services
Jenks	OK	Comprehensive Analysis of Fire Services
Muskogee	OK	Comprehensive Analysis of Police Services
Tulsa	OK	Comprehensive Analysis of Fire Services
Bend	OR	Comprehensive Analysis of Police Services
Grants Pass	OR	Comprehensive Analysis of Fire Services
Grants Pass	OR	Comprehensive Analysis of Police Services
Grants Pass	OR	Public Safety Strategic Plan Development
Ontario	OR	Comprehensive Analysis of Police Services
Ontario	OR	Comprehensive Analysis of Fire Services
Mohnton	PA	Comprehensive Analysis of Police Services
Mohnton	PA	Police Chief Selection
Ephrata	PA	Comprehensive Analysis of Police Services
Farrell	PA	Comprehensive Analysis of Police Services
Jamestown	PA	Comprehensive Analysis of Police Services
Wrightsville	PA	Comprehensive Analysis of Police Services
Lancaster	PA	Police Study
Berwyn	PA	Comprehensive Analysis of Police Services
East Providence	RI	Comprehensive Analysis of Fire Services
East Providence	RI	Expert Witness Fire Issues
Beaufort	SC	Review of Fire Service Contract
Beaufort	SC	Comprehensive Analysis of Police Services
Beaufort	SC	Comprehensive Analysis of Fire Services
Walterboro	SC	Comprehensive Analysis of Public Safety Dept.
Rapid City	SD	Comprehensive Analysis of Fire Services
Germantown	TN	Comprehensive Analysis of Fire Services
Johnson City	TN	Comprehensive Analysis of Fire Services
Johnson City	TN	Comprehensive Analysis of Police Services
Smyrna	TN	Comprehensive Analysis of Police Services

Smyrna	TN	Comprehensive Analysis of Fire Services
Addison	TX	Comprehensive Analysis of Fire Services
Addison	TX	Comprehensive Analysis of Police Services
Baytown	TX	EMS Study
Belton	TX	Comprehensive Analysis of Police Services
Belton	TX	Comprehensive Analysis of Fire Services
Belton	TX	Police Chief Selection
Belton	TX	Fire Chief Selection
Buda	TX	Comprehensive Analysis of Police Services
Cedar Park	TX	Comprehensive Analysis of Police Services
Conroe	TX	Fire Services Analysis and Standard of Response
Frisco	TX	Comprehensive Analysis of Fire Services
Highland Village	TX	Fire Review
Hutto	TX	Comprehensive Analysis of Fire Services
Lucas	TX	Fire and EMS Analysis
New Braunfels	TX	Fire Study
New Braunfels	TX	Police Study
Prosper	TX	Comprehensive Analysis of Police Services
Round Rock	TX	Comprehensive Analysis of Fire Services
Sugarland	TX	Fire Department Overtime Analysis
Sugarland	TX	Comprehensive Analysis of Fire Services
Victoria	TX	Comprehensive Analysis of Police Services
Washington City	UT	Comprehensive Public Safety Analysis
Hampton	VA	Police Chief Selection
Leesburg	VA	Comprehensive Analysis of Sheriff Services
Leesburg	VA	Comprehensive Analysis of Fire Services
Bonney Lake	WA	Comprehensive Analysis of Police Services
Lacey	WA	Comprehensive Analysis of Fire Services
Snoqualmie	WA	Police Workload & Deployment Analysis
Spokane Valley	WA	Comprehensive Analysis of Police Services
Vancouver	WA	Comprehensive Analysis of Police Services
Vancouver	WA	Police Chief Selection
Menomonie	WI	Sheriff Office Study
Wauwatosa	WI	Comprehensive Analysis of Fire Services
Wauwatosa	WI	Comprehensive Analysis of Police Services
Jackson	WY	Police Consolidation Review
Laramie	WY	Comprehensive Analysis of Police Services
Jackson	WY	Police Consolidation Review