City of Marquette, MI

Meeting Agenda
City Commission

Monday, February 12, 2024
6:00 PM
Commission Chambers

300 West Baraga Ave
Marquette, Michigan 49855

Call to Order, Pledge of Allegiance and Roll Call

Approval of the Agenda

Announcements

Public Comments - Comments may not exceed three minutes per person. Please state your name and physical address when making public comments.

Presentation(s)

1. Peter White Public Library Board, by Library Director Andrea Ingmire

2. **Consent Agenda - Roll Call Vote**

- **2.a.** Approve the minutes of the January 29, 2024 regular Commission meeting
- **2.b.** Approve the total bills payable in the amount of $ 3,620,359.66
- **2.c.** Environmental Review Certifying Officer- Roll Call Vote
- **2.d.** KBIC Funding for The Marquette Maritime Museum Association, Inc.
- **2.e.** Marquette Housing Commission Agreement
- **2.f.** Moosewood Nature Center, Inc. - Lease Agreement Amendment
- **2.g.** Sale of Surplus Equipment
- **2.h.** Sault Ste. Marie Tribe of Chippewa Indians Funding for The Marquette Maritime Museum Association, Inc.
- **2.i.** The Marquette Maritime Museum Association, Inc. - Use Agreement

New Business

3. Lake Superior Shoreline Restoration Project - Contract Approval

4. PIDP - Protecting Critical Infrastructure and Improving Efficiency Dredging Project - Contract Approval

Public Comments - Comments may not exceed three minutes per person. Please state your name and physical address when making public comments.

Comments from the Commission

Comments from the City Manager

Adjournment

Kyle Whitney, City Clerk

If you require assistance to participate in any meeting, program or activity offered by the City of Marquette, please provide advanced notice to City of Marquette ADA Coordinator Eric Stemen at 906-225-8978 or via email at estemen@marquettemi.gov.

Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote

Approve the minutes of the January 29, 2024 regular Commission meeting

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- Jan. 29 minutes

City of Marquette, MI

300 West Baraga Ave
Marquette, Michigan 49855

Meeting Minutes
City Commission

Monday, January 29, 2024
6:00 PM
Commission Chambers

Call to Order, Pledge of Allegiance and Roll Call

Present: Davis, Hanley, Larson, Mayer, Ottaway, Schloegel, Smith

Approval of the Agenda

Commissioner Jennifer Smith moved to Approve the agenda as presented, seconded by Commissioner Paul Schloegel and Carried Unanimously.

Announcements

Mayor Davis talked about the upcoming 175th anniversary (the demisemiseptcentennial) of the incorporation of the City of Marquette.

She also noted that the City Commission's February meeting schedule will be a bit different, due to the Presidential Primary election and the Presidents' Day holiday, with the month's two regular meetings held on February 12 and 20.

Boards and Committees

1. Appointment(s)

Kevin Clegg, Board of Zoning Appeals as the Planning Commission Representative, for a term ending 2-15-25

Commissioner Michael Larson moved to Approve the appointment as listed, seconded by Commissioner Paul Schloegel and Carried Unanimously.

2. Reappointment(s)

Callie New, Marquette Brownfield Redevelopment Authority, for a term ending 2-1-27
James Rankin, Marquette Brownfield Redevelopment Authority, for a term ending 2-1-27
Jamie Glenn, Parks and Recreation Advisory Board, for a term ending 1-29-27
George Patrick, Board of Zoning Appeals, for a term ending 2-15-27

Commissioner Michael Larson moved to Approve the reappointments as listed, seconded by Commissioner Paul Schloegel and Carried Unanimously.

Public Comments - Comments may not exceed three minutes per person. Please state your name and physical address when making public comments.

Craig Patterson, on behalf of the Woda Group, offered an update on the Blackrock Crossing development being planned on West Ridge. He said the plan now includes project-based vouchers, which has resulted in a need additional due diligence and paperwork. He said additional documents were recently delivered to the city for review and endorsement.

Margaret Brumm spoke about the Enterprise vehicle lease agreement on tonight's agenda. She said she hoped that this agreement allows for flexibility for the city fleet to shift to become more green-friendly moving forward.

Presentation(s)

3. Marquette Employee Recognition, by City Manager Karen Kovacs

City Manager Karen Kovacs offered an update on a dangerous situation that took place near the City Police Department last week. She praised the response of the police and emergency responders, but also highlighted the forward-thinking actions from staff throughout the building -- from the IT Department to the Senior Center and Human Resources offices. She said the responses by various employees helped to share vital information and maintain the safety of city staff.

4. Marquette Police Service Awards, by Police Chief Ryan Grim

Police Chief Ryan Grim and Captain Greg Kinonen stood to present awards.

Chief Grim made a brief statement, indicating that last week, an individual with a loaded handgun entered the Police Department hallway, confronted a citizen with the weapon and demanded to speak with officers. Grim said that following a lengthy negotiation, an opportunity to end the threat presented itself and the three officers being recognized tonight were able to disarm and subdue the subject. He said the incident was resolved without injury and said he was extremely proud of his entire staff and lucky to work with such dedicated officers.

He presented Officer Czarny with the Meritorious Service Award and Officer Braun received the Accommodation Award. He also honored the actions of Officer Takala, who was not able to attend the meeting. Finally, Chief Grim recognized the City Fire Department for their efforts during the incident.

Mayor Sally Davis then thanked the staff, the Police and the members of Fire Department. She said the bravery and professionalism of those involved led to a safe resolution of a tenuous and dangerous circumstance.

5. Consent Agenda

Commissioner Jennifer Smith moved to Approve the Consent Agenda as presented, seconded by Commissioner Michael Larson and Carried Unanimously.

5.a. Approve the minutes of the January 8, 2024 regular Commission meeting

5.b. Approve the total bills payable in the amount of $2,540,098.30

5.c. 2024 Mejier State Games Fireworks Display

5.d. Camera Server and Storage Replacement

5.e. FEMA Grant Application for Fire Department Ladder Truck

5.f. Noquemanon Trails Network - Office and Storage Lease Agreement

5.g. Schedule Public Hearing - Downtown Development Authority TIF Plan

New Business

6. Enterprise Vehicle Lease Agreement

Commissioner Jermey Ottaway moved to Approve the lease agreements with Enterprise FM Trust, authorize the City Clerk and Mayor to sign the agreements, and authorize the City Manager or her designee to approve all motor vehicle lease documents, seconded by Commissioner Jennifer Smith and Carried Unanimously.

7. Firefighters Labor Agreement

Commissioner Paul Schloegel moved to Approve the Marquette Firefighters Association Labor Agreement effective October 1, 2023 through September 30, 2025, and authorize the Mayor and City Clerk to sign the Agreement, seconded by Commissioner Jermey Ottaway and Carried Unanimously.

8. City Manager and City Attorney Evaluation Subcommittee

Mayor Pro Tem Jessica Hanley moved to Approve three Commissioners to serve on the City Manager and City Attorney Evaluation Subcommittee for calendar year 2024 with an immediate charge to review the City Manager's and City Attorney's compensation and bring back a recommendation at the City Commission's March 11th regular meeting and continue serving on the subcommittee for the year including conducting their evaluations in the fall, seconded by Commissioner Jermey Ottaway and Carried Unanimously.

Mayor Davis said she will make a decision of who to appoint to this group in the coming days.

Public Comments - Comments may not exceed three minutes per person. Please state your name and physical address when making public comments.

City Fire Department employee Pete Windsor, president of Local 643, thanked the City Commission for approving the proposed contract at tonight's meeting. He said it should help tremendously with recruiting and retention for the department.

Comments from the Commission

Commissioner Smith thanked the staff for the response to last week's incident in City Hall.

Commissioner Larson thanked the Police Department. He talked about the Marquette 2049 discussion last week and said things like the Enterprise agreement approved tonight help to give the City flexibility moving forward.
Commissioner Mayer said he also attended last week's task force meeting mentioned by Commissioner Larson. He also praised staff about the emergency response last week and said he was happy to see the new labor agreement approved tonight.
Commissioner Ottaway praised the staff involved in last week's incident. He also mentioned the tragic death of Tara Gluski, who died recently in a car accident. He said Tara was very involved in the community, including as chair of the City's Presque Isle Park Advisory Committee, and we be sorely missed.
Mayor Pro Tem Hanley thanked the professionalism of staff and said it struck her that the situation could have gone far differently if different people had been involved in the response. She said she wanted to point out that there was a huge grant application on the consent agenda. She said the purchase of a fire truck is a large expense but is an absolute necessity for the city and this grant could be a way to offset some of the high cost.
Commissioner Schloegel praised the staff response last week and also mentioned the passing of Tara Gluski, which he said was a tragic loss.
Mayor Davis talked about the Marquette 2049 climate adaptation task force. She said the Enterprise lease should allow for the integration of electric vehicles, once that's a feasible shift for the City. She said the commission is excited about the Blackrock Crossing project, and that staff is working through the specifics.

Comments from the City Manager

City Manager Karen Kovacs talked about the Blackrock Crossing project and the ongoing staff review of the requested documents. She also praised the City motor pool staff, regarding their ability to extend the life of the current fleet, including a fire truck, while still planning for replacement.

Adjournment

Mayor Davis adjourned the meeting at 6:40 p.m.

_____ _____

Sally Davis, Mayor **Kyle Whitney, City Clerk**

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Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote
Environmental Review Certifying Officer- Roll Call Vote

BACKGROUND:

The City of Marquette has been approached by Woda Cooper Companies, Inc. (Woda) to support a development located at 1502 W. Ridge Street, and identified as Black Rock Crossing, utilizing the Low Income Housing Tax Credit (LIHTC) program. LIHTC provides tax incentives to encourage developers to create affordable, low-income housing targeting renters earning less than 80% of the Area Median Income.

Due to the integral use of project based vouchers in the development issued by the Marquette Housing Commission, the City is required to be a party to the State Historic Preservation Office (SHPO) Section 106 Review and National Environmental Protection Act (NEPA) environmental review relating to the development.

A component of these reviews is authorization of the related forms by a Certifying Officer as approved by the City Commission. City Manager Karen Kovacs is the recommended Certifying Officer.

FISCAL EFFECT:

None by this action.

RECOMMENDATION:

Approve the Resolution authorizing the City Manager as the Certifying Officer for the appropriate forms related to the Black Rock Crossing development.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description
- Resolution
- SHPO Application

Resolution Designating Certifying Officer

WHEREAS, Woda Cooper Companies, Inc. is developing a low-income housing project, identified as Black Rock Crossing, in the City of Marquette utilizing, in part, project based vouchers issued by the Marquette Housing Commission; and

WHEREAS, a component of the approval process for this development is an Section 106 review that ensures compliance in multiple categories; and,

WHEREAS, the review has associated forms that requires the designation of a Certifying Officer, through formal resolution, by the governing body.

NOW, THEREFORE, be it resolved that the City Commission of the City of Marquette designates City Manager Karen Kovacs as the Certifying Officer for necessary forms related to the Black Rock Crossing Development.

Dated this 12th Day of February, 2024.

_____

Sally Davis
Mayor
City of Marquette

APPLICATION FOR SHPO SECTION 106 CONSULTATION

Submit one application for each project for which comment is requested. Consult the *Instructions for the Application for SHPO Section 106 Consultation Form* when completing this application.

Submit application materials online at www.michigan.gov/shposection106 or mail to: Michigan State Historic Preservation Office, 300 North Washington Square, Lansing, MI 48913

I. GENERAL INFORMATION

☒ New submittal
☐ More information relating to SHPO ER# SHPO Project #
☐ Submitted under a Programmatic Agreement (PA)
PA Name/Date: PA name/date, if applicable

a. **Project Name:** **Black Rock Crossing**

b. **Project Location(s):**

If there is more than one location for your project, additional rows may be added to the table below. Township, Range, Section/Private Claim refer to the public land survey sections. Each Township/Range group must have its own row in the table below and must include the corresponding county and municipal unit.

County	Municipality	Street Address	Township (N/S)	Range (E/W)	Section(s) or Private Claim
Marquette	Marquette	1303 and 1400 Grant Ave; 1502 West Ridge St.	T48N	R25W	Section 22

II. FEDERAL AGENCY INVOLVEMENT AND RESPONSE CONTACT INFORMATION

a. **Federal Agency:** Housing and Urban Development
Contact Name: Name of federal contact
Contact Address: Federal contact mailing address **City:** Federal contact city **State:** Federal contact state **Zip:** Federal contact zip code
Email: Federal contact email
Specify the federal agency involvement in the project: 9% MSHDA Reservation and Project-Based Vouchers

b. **If HUD is the Federal Agency: 24 CFR Part 50** ☐ **or Part 58** ☒
Responsible Entity (RE): City of Marquette
Contact Name: Karen Kovacs, City Manager
Contact Address: City Hall, 300 W. Baraga Ave. **City:** Marquette **State:** MI **Zip:** 49855
RE Email: kkovacs@marquettemi.gov **Phone:** 906-228-0435

c. **State Agency Contact (*if applicable*):** Name of state agency
Contact Name: Name of state agency contact
Contact Address: State agency contact's mailing address **City:** State contact's city **Zip:** State contact's zip code
Email: State contact's email **Phone:** State contact's phone #

d. **Applicant (if different than federal agency):** Woda Cooper Companies
Contact Name: Alex Keller
Contact Address: 500 South Front Street, 10th Floor **City:** Columbus **State:** Ohio **Zip:** 43215
Email: akeller@wodagroup.com **Phone:** 614-499-3278

e. **Consulting Firm (if applicable):** The Mannik & Smith Group, Inc.
Contact Name: Dr. Robert Chidester, RPA
Contact Address: 607 Shelby St., Suite 300 **City:** Detroit **State:** MI **Zip**: 48226
Email: rchidester@manniksmithgroup.com Phone: 313-961-9500 x2062

III. PROJECT INFORMATION

a. **Project Work Description**
Describe all work to be undertaken as part of the project:
Two existing buildings within the Project Area (one residential, one commercial) will be demolished. Two three-story, multi-unit apartment buildings will be constructed along the west and north ends of the Project Area, along with two parking lots (74 total parking spaces) and two driveways leading out to North McClellan Ave. and West Ridge St. Other site features will include a community building attached to one of the apartment buildings, a picnic area with tables, a playground, a trash enclosure for two dumpsters, and a maintenance shed. The proposed site plan and architectural renderings are included in Attachment B.

b. **Project Location and Area of Potential Effect (APE)**

i. **Maps.** Please indicate all maps that will be submitted as attachments to this form.
☒ Street map, clearly displaying the direct and indirect APE boundaries
☒ Site map
☒ USGS topographic map Name(s) of topo map(s): Marquette, MI
☒ Aerial map
☒ Map of photographs
☐ Other: Soil Probe Map

ii. **Site Photographs**

iii. **Describe the APE:**
The area of potential effects (APE) occupies parts of N. McClellan Ave., Grant Ave., and W. Ridge St. The APE includes parcels adjacent to the Project Area on the south and west, a small wooded portion of Trowbridge Park to the north, and properties directly across from the Project Area on the east side of N. McClellan Ave.

iv. **Describe the steps taken to define the boundaries of the APE:**
Direct effects will include the demolition of one vacant commercial building and one vacant single-family home, and the construction of two new apartment buildings. All ground-disturbing work will occur within the Project Area. Anticipated indirect effects from the redevelopment of the site will be visual in nature. Any auditory effects will be temporary, being limited to the period of construction, and the undertaking is not anticipated to result in significant changes to patterns of traffic circulation in the vicinity of the Project Area, which has already experienced a high degree of commercial development. MSG conducted a site visit on October 16, 2023 to observe extant conditions within the Project Area and to photographically document the limits of visibility of the proposed new construction, travelling around the Project Area and noting the maximum distance from which the proposed buildings will be visible. Photos of the Project APE can be found in Attachment D.

IV. IDENTIFICATION OF HISTORIC PROPERTIES

a. **Scope of Effort Applied**

i. **List sources consulted for information on historic properties in the project area** (including but not limited to SHPO office and/or other locations of inventory data).

- Hinsdale's Archaeological Atlas of Michigan (1931)
- Aerial Photographs (1939-2020)

- SHPO files – Architectural Properties and Districts, Archaeological Sites, Previous Surveys
- USGS 15" topographic map (1907)
- General Land Office Plat Map (1846)

ii. Provide documentation of previously identified sites as attachments.
iii. **Provide a map** showing the relationship between the previously identified properties and sites, your project footprint and project APE.
iv. Have you reviewed existing site information at the SHPO: ☒ Yes ☐ No
v. Have you reviewed information from non-SHPO sources: ☒ Yes ☐ No

b. **Identification Results**

i. **Above-ground Properties**

A. **Are you submitting above-ground identification information?** ☒ Yes ☐ No

B. **If yes, please indicate level:**

☐ Literature Review ☒ Reconnaissance Survey Report ☐ Intensive Survey Report

C. **Total number of properties surveyed** 4

D. **Total number of previously identified Historic Properties in your APE** 0

E. **Total number of newly identified properties recommended eligible for listing in the National Register of Historic Places** 0

F. **Summarize, briefly, your findings for above-ground resources.**

The literature review revealed that there are three previously recorded above-ground resources within a 1-mile study area around the Project Area. These include two properties listed on the NRHP and one property listed on the Michigan State Register of Historic Sites (SRHS). The SRHS property is listed as a contributing resource within the potential Dollar Bay Historic District, though no other information about this district was found during the literature review. None of the three properties are within the APE for the current Project. Details about these properties can be found in Attachment C.

During MSG's site investigation, four architectural properties over 40 years of age were identified within the APE. These include a c. 1926 vernacular residence, a c. 1947 Minimal Traditional residence, and two c. 1970s office buildings. None of these properties appear to meet the criteria for listing on the NRHP, either individually or as part of a district. These properties have been recorded on MISHPO Architectural Properties Identification Forms, which can be found in Attachment E.

G. **Attach the appropriate Michigan SHPO Architectural Identification Form for each resource or site 50 years of age or older in the APE.** Refer to the *Instructions for the Application for SHPO Section 106 Consultation Form* for guidance on this.

H. **Provide the name and qualifications of the person who made recommendations of eligibility for the above-ground identification forms.**

Name Mollie Olinyk, M.S. **Agency/Consulting Firm:** The Mannik & Smith Group, Inc.

Is the individual a 36CFR Part 61 Qualified Historian or Architectural Historian ☒ Yes ☐ No

Are their credentials currently on file with the SHPO? ☒ Yes ☐ No

If NO attach this individual's qualifications form and resume.

ii. **Archaeology**
Submit the following information using attachments, as necessary.

A. **Are you submitting archaeological information?** ☒ Yes ☐ No

B. **If yes, please indicate:** ☐ Assessment (Desktop Review) ☒ Archeological Report

C. **Width(s), length(s), and depth(s) of proposed ground disturbance(s):** Variable dimensions. The proposed apartment buildings will be built slab on grade, with excavation to a depth of approximately 42 inches for footings. Excavation and grading for the parking lots and driveways will be a maximum of 3 feet below current grade. Utility installations will be a maximum of 7 feet below current grade. The total area disturbed will be approximately 3.18 ac of the total 5.6-acre parcel.

D. **Is a portion of the APE underwater?** ☐ Yes ☒ No
If the assessment did not include the underwater portions of the APE, please briefly justify:
Justification for not assessing the potential for submerged historic resources:

E. **Potential to adversely affect significant archaeological resources**:
☐ Low ☒ Moderate ☐ High

Is fieldwork recommended? ☒ Yes ☐ No
Briefly justify the recommendation:
Aerial photographs from 1939-2020 indicate that, except for the existing buildings within it, the Project Area has never been developed. Five soil probes were taken across the property during MSG's site visit (see Attachment A, Figure A3). One probe at the eastern end of the site (Soil Probe 5) encountered an impenetrable gravel layer at a depth of 13 cm (5 in) below ground surface, but three of the other four probes revealed an apparently intact soil profile consisting of a dark brown to black sandy loam A horizon overlying a reddish gray silt loam E horizon, below which was a reddish brown Bhs/Bs subsoil horizon. The fifth soil probe (Soil Probe 2) was located in an area where the A and E horizons appear to have eroded away. Based on these results, it appeared that the majority of the Project Area retains undisturbed soils.

F. **Have you attached an Archaeological Sensitivity Map?** ☒ Yes ☐ No

G. **Summary of previously reported archaeological sites and surveys:**
No archaeological sites have been previously recorded within the 1-mile literature review study area. One Phase I archaeological survey – ER-950012 – was conducted previously in 2020, but did not cover any portion of the current Project Area. More information regarding this survey can be located in Attachment C.

H. **Summarize past and present land use:**
The General Land Office plat map for Township 48 North, Range 25 West, dated 1846, shows that the area of Marquette had yet to be heavily settled by Euro-Americans. Within Sections 15-16, 21-22 and 27-28, numerous areas of augitic trap rock were noted. By 1907 the 15' Marquette, Michigan topographic quadrangle shows that the city had become a major settlement, though it only extended as far west as modern-day Lincoln Ave. The current Project Area was located to the west, adjacent to the South Arm Lumber Co. Railroad. No structures were depicted within the Project Area, though two structures were located immediately to the south of it on Ridge Street.

Historical sources document that the current dwelling located in the southwest corner of the Project Area was constructed in 1926. Two outbuildings (e.g., garage, shed, or barn) associated with the dwelling were present by at least 1952. It is unclear when these outbuildings were demolished, but they were no longer present by 1986. The commercial building at 375 N. McClellan Ave., within the

Project Area, was built between 1973 and 1986. Up through 2006 the Project Area was wooded, but by 2009 it had been cleared of most trees. Reproductions of the maps and aerial photographs discussed here can be found in the attached Phase I archaeological survey report (Attachment F).

I. **If archaeological fieldwork has been conducted, please attach a copy of the report copy and provide full report reference here**:
Hickle, E., M. Olinyk, M. Bell, J. Joblinski, R. Chidester, and K. Hayfield
2023 *Results of a Phase I Archaeological Survey for the Black Rock Crossing Project in the City of Marquette (Township 48 North, Range 25 West, Section 22), Marquette County, Michigan*. Report submitted to PM Environmental, Inc. by The Mannik & Smith Group, Inc.

J. **Provide the name and qualifications of the person who provided the information for the Archaeology section:**
Name: Dr. Robert Chidester, RPA **Agency/Firm:** The Mannik & Smith Group, Inc.
Is the person a 36CFR Part 61 Qualified Archaeologist? ☒ Yes ☐ No
Are their credentials currently on file with the SHPO? ☒ Yes ☐ No
If NO, attach this individual's qualifications form and resume.

Archaeological site locations are legally protected.
This application may not be made public without first redacting sensitive archaeological information.

V. IDENTIFICATION OF CONSULTING PARTIES

a. **Provide a list of *all* consulting parties,** including Native American tribes, local governments, applicants for federal assistance/permits/licenses, parties with a demonstrated interest in the undertaking, and public comment:
The City of Marquette has been involved in the project as the HUD-designated Responsible Entity. Woda Cooper Companies is the applicant for federal assistance.

b. **Provide a summary of consultation with consultation parties:**
See next question.

c. **Provide summaries of public comment and the method by which that comment was sought:**
The proposed development was discussed at three public meetings in Marquette:
- City Council Meeting, March 13, 2023
- City Planning Commission Meeting, March 21, 2023
- City Council Meeting, March 27, 2023

Agenda attachments and meeting minutes from these meetings can be found in Attachment G. No comments specific to potential cultural resource impacts were received.

VI. DETERMINATION OF EFFECT

Guidance for applying the Criteria of Adverse Effect can be found in *the Instructions for the Application for SHPO Section 106 Consultation Form*.

a. **Basis for determination of effect**:
MSG delineated the APE for the project based on the maximum distance from which the proposed new apartment buildings will be visible. Within the APE there are four architectural properties over 40 years of age, none of which appear to meet the criteria for NRHP listing either individually or as part of a district. Additionally, a Phase I archaeological survey failed to identify any archaeological resources within the Project Area.

b. **Determination of effect**
☒ **No historic properties will be affected**
☐ **Historic properties will be affected** and the project will (check one):

☐ have **No Adverse Effect** on historic properties within the APE.

☐ have an **Adverse Effect** on one or more historic properties in the APE and the federal agency, or federally authorized representative, will consult with the SHPO and other parties to resolve the adverse effect under 800.6.

☐ **More Information Needed:** We are initiating early consultation. A determination of effect will be submitted to the SHPO at a later date, pending results of survey.

Federally Authorized Signature:_____ Date:_____

Type or Print Name: _____

Title: _____

ATTACHMENT CHECKLIST

Identify any materials submitted as attachments to the form:

☐ Additional federal, state, local government, applicant, consultant contacts

☒ Maps of project location

Number of maps attached: 3

☒ Site Photographs

☒ Map of photographs

☒ Plans and specifications

☐ Other information pertinent to the work description: Identify the type of materials attached

☐ Updated documentation of previously identified historic properties

☒ New Architectural Properties Identification Forms

☒ Map showing the relationship between identified historic properties, your project footprint, and project APE

☐ Above-ground qualified person's qualification form and resume

☐ Above-ground survey report

☒ Archaeological sensitivity map

☒ Archaeology survey report

☐ Archaeologist and Historian qualifications and resume- if not on file already.

☒ Other: Public meeting agendas and minutes

Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote
KBIC Funding for The Marquette Maritime Museum Association, Inc.

BACKGROUND:

Recently staff from The Marquette Maritime Museum Association, Inc. asked the City to serve as the fiscal pass-through agent for funding from the Keweenaw Bay Indian Community (KBIC). They plan to ask the Tribe for $5,000 to help repair the roof of their museum building in order to continue operating. In addition to regular operations, the museum provides free fieldtrips for school groups and programming for children. In consideration of the City agreeing to act as a pass-through, The Marquette Maritime Museum Association, Inc. agrees to dedicate any funds received from the KBIC Tribe to the purposes set forth in the attached agreement prepared by the City Attorney.

Proceeds from the Tribe's 2% gaming revenue would be used to fund the request; gaming regulations require that a local municipality serve as the fiscal agent for such awards. This payment is not allocated to the City of Marquette, but is a contribution to The Marquette Maritime Museum Association, Inc.

FISCAL EFFECT:

No direct cost to the City.

RECOMMENDATION:

Approve the request to act as the fiscal intermediary for KBIC funding of $5,000 to assist The Marquette Maritime Museum Association, Inc. with funding to repair the roof of their museum building.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- Maritime Museum KBIC Request
- Maritime Museum Agreement

Marquette Maritime Museum

Preserving Marquette's Maritime History Since 1984

Mail: PO Box 1096
Location: 300 N. Lakeshore Blvd
Marquette, MI 49855

mqtmaritimemanager@gmail.com
www.mqtmaritimemuseum.com
906-226-2006

February 1, 2024

Karen Kovacs, City Manager
City of Marquette
300 W Baraga Ave.
Marquette MI 49855

Dear Ms. Kovacs,

The Marquette Maritime Museum is requesting that the City of Marquette act as the fiscal intermediary for a $5,000 request to the Keweenaw Bay Indian Community from their 2% funding to help with the cost of a new roof for the Museum building.

The Museum building (City of Marquette's 1891 Waterworks) houses our archival collections, a museum gallery, a gift shop, and administrative offices. Both the north and east-facing sides of the Museum roof have sustained damage over the years, resulting in missing and faulty shingles. Unfortunately, the roof is composed of asbestos shingles that need to be removed with proper asbestos abatement practices. The current roof was installed sometime in the 1940s, and in the last few years, the old shingles having been rapidly deteriorating, especially on the north side and around a large patch on the lake-side. We have been informed by our insurance company that we must replace the roof to keep our current coverage.

The 2% funds will be used to continue to support the Museum as a recreation program for the citizens of Marquette. We offer free school field trips and free children's art/history workshops and replacing the roof is necessary for us to continue to provide these services.

We are asking the City of Marquette to act as the fiscal agent and forward our request to the Keweenaw Bay Indian Community. Thank you for your consideration.

Sincerely,

Hilary Billman

Hilary Billman,
Director

AGREEMENT

This Agreement is entered into this _____ day of _____, 2024, between the CITY OF MARQUETTE, a municipal corporation, with offices located at 300 W. Baraga Avenue, Marquette, MI 49855 (hereinafter referred to as the "City"), and THE MARQUETTE MARITIME MUSEUM ASSOCIATION, INC., a Michigan nonprofit corporation, with offices located at 300 N. Lakeshore Blvd, Marquette, MI 49855 (hereinafter referred to as "MMM");

WHEREAS, the MMM operates a historical maritime museum, which provides a recreation program for the citizens of Marquette via free school fieldtrips and children's art and history workshops, which is vital in supporting youth development in our community,

WHEREAS, the MMM is seeking funding to repair the roof of their museum building in order to continue operating,

WHEREAS, Marquette City Charter Section 2-14 states: "The city commission shall provide for a public recreation program for the residents of the city;" and

WHEREAS, the Marquette City Commission having determined that the activities of the MMM are a valid purpose under the Charter and is willing to enter into this Agreement with MMM for the support of its program, upon certain terms and conditions.

NOW, THEREFORE, the parties agree:

1. That for and in consideration of the payment by the City to the MMM of the sum of $5,000 from the Keweenaw Bay Indian Community, the MMM will accept said money from the City to assist the City in carrying out its obligation to provide a public recreation program for its residents.

2. That the parties further understand and agree that the payment of the sum of $5,000 by the City to the MMM as above-described is contingent upon the prior receipt by the City of the amount from the Keweenaw Bay Indian Community, and that if said payment is not received by the City, the City shall have no obligation to make the payment herein described to the MMM.

The signatories hereto certify that they are authorized to execute this document on behalf of the respective parties.

Dated: _____

By: Karen M. Kovacs
Marquette City Manager

Dated: February 5, 2024

By: Hilary Billman
Director
THE MARQUETTE MARITIME
MUSEUM ASSOCIATION, INC.

Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote
Marquette Housing Commission Agreement

BACKGROUND:

The City of Marquette has been approached by Woda Cooper Companies, Inc. (Woda) to support a development located at 1502 W. Ridge Street, and identified as Black Rock Crossing, utilizing the Low Income Housing Tax Credit (LIHTC) program. LIHTC provides tax incentives to encourage developers to create affordable, low-income housing targeting renters earning less than 80% of the Area Median Income.

Due to the integral use of project based vouchers in the development issued by the Marquette Housing Commission, the City is required to be a party to the State Historic Preservation Office (SHPO) Section 106 Review and National Environmental Protection Act (NEPA) environmental review relating to the development

In order for the City to participate in this process, an agreement was negotiated with the Marquette Housing Commission outlining the respective parties' obligations related to the environmental review process.

FISCAL EFFECT:

None by this action.

RECOMMENDATION:

Approve the agreement with the Marquette Housing Commission, and authorize the Mayor and City Manager to sign.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- MHC Agreement

Agreement regarding Black Rock Crossing Environmental Reviews
Between the City of Marquette and the Marquette Housing Commission

THIS AGREEMENT is made on this _____ day of _____, 2024 by and between the City of Marquette, a Michigan municipal corporation of 300 W. Baraga Avenue, Marquette, Michigan 49855, acting as the Responsible Entity ("RE") and the Marquette Housing Commission, of 316 Pine Street, Marquette, Michigan 49855 ("MHC").

WHEREAS, the MHC maintains public housing under Section 9 of the United States Housing Act of 1937, and may elect to pursue housing projects and/or activities with federal financial assistance subject to environmental reviews pursuant to the National Environmental Policy Act of 1969 (NEPA) and implementing regulations of the Council on Environmental Quality, including but not limited to the regulations at 40 CFR Parts 1500-1508, and implementing regulations of the U.S. Department of Housing and Urban Development ("HUD"), including but not limited to HUD's regulations at 24 CFR Part 58; and

WHEREAS, as the recipient of federal financial assistance, the MHC may secure assistance for completing environmental reviews by the unit of general local government where the project is located as the RE authorized to assume environmental review obligations pursuant to 24 CFR 58.2(a)(7)(ii)(B); and

WHEREAS, the RE certifies it is authorized to: (1) assume responsibility for environmental review, decision making and action under NEPA and each provision of law designated in 24 CFR 58.5 applicable to any and all of the HUD financial assistance awarded to the MHC; (2) accept jurisdiction of the Federal courts for enforcement of these environmental responsibilities; and (3) execute the certification portion of HUD's Request for Release of Funds ("RROF") and certifications as set forth in 24 CFR 58.4, 58.13, and 58.71; and

WHEREAS, the MHC requested the RE to complete the environmental review record with respect to the MHC's Black Rock Crossing project ("Project") pursuant to the conditions and provisions set forth in this Agreement and the RE accepts responsibility to act as the responsible Federal agency under NEPA and the laws and authorities in 24 CFR 58.5 with respect to said Project.

NOW THEREFORE, in consideration of the mutual promises and the terms and conditions set forth below, the MHC and RE hereby agree as follows:

1. Incorporation of recitals: The recitals set forth above are incorporated by reference as if fully set forth herein and made a part hereof.

2. Duties and Responsibilities of RE:

a. RE will perform and/or manage all environmental reviews and prepare all necessary documentation in support of the environmental review record for all activities pursuant to the Project and any accompanying documents necessary to be submitted to HUD, in full compliance with:

i. HUD's "Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities" (24 CFR Part 58);

ii. Section 102 of NEPA;

iii. Related provisions of the Council on Environment Quality regulations contained in 40 CFR Parts 1500 through 1508; and

iv. All other applicable Federal and State regulations.

b. Where appropriate and necessary in the environmental review process, RE will issue findings of no significant impact (FONSIs) or findings of significant impact, determine whether to hold public hearings, prepare environmental impact statements and records of decision, issue notices of FONSIs and notices of intent to request release of funds, and prepare requests for release of funds.

c. RE may retain consultants and experts for special reviews or investigations and obtain other outside services deemed necessary by RE to its functions hereunder. Prior to retaining any such experts, consultants or outside services, RE shall discuss the need for and scope of such work or services with the MHC. The MHC shall pay the cost of any such experts, consultants or outside services as eligible Capital Fund activities.

3. Duties and Responsibilities of the MHC

a. MCH will procure at the MHC's expense and will provide RE with all available project and environmental information needed by RE in connection with activities pursuant to this Agreement, including, without limitation, existing relevant information and any reports of investigation or study required to conduct an environmental review consistent with law and regulations.

b. MHC will provide RE with documentation that adequately describes the full scope, purpose, and interrelationships of the subject HUD-assisted Project, which may include privately financed or non-federally assisted MHC financing, and any other documents and/or information requested by RE that RE reasonably believes is necessary to perform services required under this Agreement and that are within MHC's possession or control.

c. MHC will serve as liaison with local community groups and residents regarding all aspects of RE services under this Agreement, including, but not limited to, scheduling meetings and participating in public meetings. The MHC will provide the RE with prior written notice of all meetings related to Agreement-related services in order to allow the RE the opportunity to participate in such meetings.

d. MHC will reimburse RE for expenses incurred for performing services under this Agreement, including, but not limited to:

i. costs of publishing notices;

ii. necessary travel expenses;

iii. postage and express package delivery charges;

iv. fees and expenses of experts, consultants and outside services retained by RE;

v. RE's staff time devoted to performance of Agreement-related services; and

vi. actual costs incurred associated with any surveys or investigations.

e. MHC will monitor environmental mitigation or procure such services to ensure compliance with environmental conditions specified in the authorization to use HUD funds or HUD approvals.

f. MHC will provide the Five Year and Annual Plans to the RE.

g. MHC will communicate to stakeholders the requirements for environmental reviews before any partner or stakeholder in the development makes a choice-limiting action upon submission of an application for HUD financial assistance.

4. Agreement terms

a. This Agreement is effective for a period of ___ years from the date of execution, or until terminated as set forth below.

b. The MHC may terminate this Agreement at any time by giving 30 days written notice to RE.

c. RE may terminate this Agreement for cause upon 30 days written notice to the MHC, including a statement of the reason(s) therefore. As used herein, cause shall include any failure of the MHC to promptly reimburse RE for costs, any other non-performance by the MHC under this Agreement or any material failure by the MHC to comply with any term of this Agreement.

5. Conditions

a. No official, employee or agent of either party shall be charged personally by the other or by an assignee or subcontractor with any liability or expenses of defense or be held personally liable under any term or provision of this Agreement, because of such party's execution or attempted execution of this Agreement, or because of any breach thereof.

b. This Agreement constitutes the entire agreement between the parties with respect to the subject matter hereof, and no other warranties, inducements, considerations, promises, or interpretations shall be implied or impressed upon this Agreement that are not expressly addressed herein.

c. No changes to or modifications of this Agreement are binding unless made in writing and executed by the duly authorized officers of both the MHC and the RE.

d. The MHC and RE shall at all times observe and comply with all applicable laws, ordinances, rules, regulations and executive orders of the federal, state and local government now existing or hereinafter in effect, which may in any manner affect the performance of this Agreement.

e. Whenever under this Agreement either party, by a proper authority, waives either party's performance in any respect or waives a requirement or condition of either party's performance, the waiver so granted, whether express or implied, shall only apply to the particular instance and shall not be deemed a waiver forever for subsequent instances of the performance, requirement or condition. No such waiver shall be construed as a modification of the Agreement regardless of the number of times either party may have waived the performance, requirement or condition.

6. Authority and notice

a. Each person signing this Agreement represents and warrants that such person has the requisite power and authority to enter into, execute, and deliver this Agreement and that this Agreement is a valid and legally binding and enforceable obligation in accordance with its terms.

b. All verbal and written communication, including required reports and submissions, shall be transmitted between RE and the MHC as noted below.

i. Any notices sent to the RE shall be transmitted to:

Karen M. Kovacs, City Manager
City of Marquette
300 W. Baraga Avenue
Marquette, Michigan 49855

ii. Any notices sent to the MHC shall be transmitted to:

Sharon Maki, Executive Director
Marquette Housing Commission
316 Pine Street
Marquette, Michigan 49855

The City of Marquette and the Marquette Housing Commission have executed this Agreement as of the date first written above and under the laws of the State of Michigan.

MARQUETTE HOUSING COMMISSION

Dated:_____ _____
By:
Its:

Dated:_____ _____
By:
Its:

CITY OF MARQUETTE

Dated:_____ _____
Sally Davis, Mayor

Dated:_____ _____
Kyle Whitney, City Clerk

APPROVED AS TO SUBSTANCE:

_____
Karen M. Kovacs, City Manager

APPROVED AS TO FORM:

_____
Suzanne C. Larsen, City Attorney

Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote
Moosewood Nature Center, Inc. - Lease Agreement Amendment

BACKGROUND:

In February of 2022 the City Commission approved lease of space at 1 Peter White Drive to the Moosewood Nature Center, Inc. An error with the utility section of the lease was recently discovered requiring an amendment. Staff worked with the City Attorney and Moosewood Nature Center, Inc. to draft an amended lease agreement which corrects the terms and conditions of the agreement.

Due to the public restroom attached to the facility, the City will pay the first $75 of electricity and cover water during the months of May through October. Moosewood Nature Center, inc. is responsible for all other utilities.

The term of this amended agreement is 10 years from the date of the original lease, dated February 14, 2022.

Per City Charter, lease of city property requires two reads. This is the first read.

FISCAL EFFECT:

The General fund will realize $1/year with this agreement.

RECOMMENDATION:

Move the amended lease agreement with Moosewood Nature Center, Inc. for space at 1 Peter White Drive to the next regular City Commission meeting.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- Amended Lease, Exhibit A and Insurance

AMENDED LEASE AGREEMENT

THIS AGREEMENT, made and entered into this ____ day of _____, 2023 by and between the **CITY OF MARQUETTE**, a Michigan municipal corporation, of 300 W. Baraga Avenue, Marquette, Michigan 49855, hereinafter ("Lessor"), and **Moosewood Nature Center, Inc.**, a Michigan corporation, of 2 Peter White Drive, Marquette, Michigan 49855, hereinafter ("Lessee").

Recitals

A. Lessor is the owner and operator of Presque Isle Park at 1 Peter White Drive, Marquette, Michigan.

B. Lessee desires to lease and Lessor is willing to lease to Lessee the area and building as outlined in red on Exhibit "A" in the area known as the Shiras Pool ("Premises") at Presque Isle Park ("Park") in accordance with the terms and conditions contained herein.

NOW, THEREFORE, in consideration of the mutual promises of the parties and other good and valuable consideration, the receipt of which is hereby acknowledged, it is agreed as follows:

1. Leased Premises

1.1 Lessor leases to Lessee the space shown in Exhibit "A", known as the "Shiras Pool" and located within Presque Isle Park. Lessee shall the space in which the cooler/freezer are located with the owner and/or operator of Ice Cream Store lease.

1.2 In the event Lessor desires to lease the remaining portions of "Shiras Pool" that are not included in the Premises as shown on Exhibit "A", Lessee shall be given the first option to lease said portions under the same terms and conditions as set forth in this Lease Agreement.

1.3 Lessee agrees to develop architectural and engineering plans for renovations to the Premises required to meet the specific needs of Lessee for Lessee's intended uses. Lessee shall be responsible for constructing all renovations as developed by Lessee, and Lessee shall obtain Lessor's written approval of all such plans and specifications prior to beginning any construction activity.

2. Term of Lease

2.1 The term of this lease is ten (10) years from the date of the original lease, dated February 14, 2022.

2.2 Lessee may request the term of this lease be extended for an additional ten (10) year period, upon providing a written request to Lessor no later than 12 months prior to the termination of the original lease term. Lessor has sole discretion to approve or deny such

request, and if approved, all terms and conditions shall be agreed upon by the parties in writing.

3. Rent

3.1 Lessee shall pay rent in the amount of $1.00 per year to Lessor, due by the 1st day of each calendar year. Rent shall not be prorated for partial years.

In lieu of additional monetary rent, Lessee shall provide the following services:

a. Perform two Deer Censuses at Presque Isle Park during the term of the lease.

b. Provide the City with a quarterly report of hours of operation, staff & board directory, schedule & details of programming, and other pertinent information to operations and partnering with the City.

c. Assist park visitors with information and assist in monitoring violations of ordinances including feeding of wildlife, dogs in the park, or other violations as noted. Lessee shall not act as enforcement offices for ordinance violations.

d. Grant support as needed.

e. Provide two educational programs for Tourist Park.

3.2 The following utilities shall be paid by the following parties:

City of Marquette:	Storm water fees. First $75.00 billed each month in electricity expenses. Water during the months of May through October.
Moosewood:	Telephone (directly billed to Moosewood). Internet (directly billed to Moosewood). Propane (directly billed to Moosewood). Garbage—Moosewood to pay the residential/small commercial rate. Water during the months November through April. All electricity after the first $75.00 billed each month.

No City of Marquette water source shall be used for irrigation for any portion of the Premises.

Lessee shall be entitled to the use of all common washrooms.

Lessee shall be responsible for telephone service.

4. Use of Leasehold Premises

4.1 Lessee shall use the Premises only as a Nature Center, and not for any purpose that would:

a) be deemed hazardous to the public or adjoining premises, including but not necessarily limited to fire, and environmental type hazards;

b) constitute a violation of any public law or requirement;

c) cause damage or injury to the Premises or any part of it (ordinary wear and tear excepted);

d) interfere with normal operations of the Premises' heating, air conditioning, ventilating, plumbing, or other mechanical or electrical systems;

e) constitute a public or private nuisance;

f) interfere with other Park uses;

g) alter the appearance of the Premises, except as provided herein, without prior written approval of the Lessor;

h) permit noise or odors to be unreasonably dispelled from the Premises;

i) place merchandise, materials, supplies, signs, or other thing of any kind on the sidewalks or other common areas without written approval;

j) permit refuse to accumulate in or around Premises; or

k) obstruct entryways.

5. Use of Common Areas by Lessee

5.1 Lessee and its invitees shall have the right in common with Lessor, its invitees, and others to use the public restrooms, public parking, sidewalks, and surrounding area, subject, however, to all rules and regulations regarding the use of those areas.

6. Maintenance and Repair

6.1 Lessee shall be responsible for all cleaning of the Premises and all repairs of any nature, including but not limited to heating and cooling, roof and structural systems, of the Premises. All major repairs must be pre-approved by Lessor's facilities director.

6.2 Lessee shall be solely responsible for the maintenance and repair of all of Lessee's fixtures, furniture and equipment and keep them in a safe condition and good repair.

6.3 Lessee must obtain written consent of Lessor for all signage used by Lessee in the Premises and adjoining premises. All signage approved by Lessor shall be maintained in good condition and repair.

6.4 Lessor reserves the right to make any repairs or alterations that it deems necessary and desirable to the common areas.

6.5 All storage spaces, including shared spaces, must remain clear and free of hazards at all times. A 6 foot clear space shall be maintained around the freezer at all times.

7. Insurance and Indemnity

7.1 Lessee shall not permit any activity on the Premises which would invalidate or be in conflict with Lessor's fire, boiler, sprinkler, water damage, and extended coverage insurance policies covering the Premises and contents therein. Lessor will provide Lessee with a copy of any and all relevant insurance policies.

7.2 Lessee shall not permit any activity on the Premises which would cause Lessor's rate for the insurance described herein to be increased. Lessor will provide Lessee with a list of any such activities.

7.3 Lessee at its sole expense shall be responsible for insuring its own tangible personal property, equipment, and fixtures from loss from fire and other casualty and shall at all times provide Lessor with a certificate evidencing such coverage.

7.4 Lessee at its sole expense shall maintain liability insurance protecting and insuring Lessee and Lessor from all claims for injury or damage to persons or property arising out of the use of the Premises and any common area by Lessee, its employees, agents invitees, and licensees. The amount of the insurance shall be not less than One Million Dollars ($1,000,000.00) per occurrence for accident, bodily injury, or death and not less than Five Hundred Thousand Dollars ($500,000.00) for property damage. Lessee shall provide Lessor with a copy of said policies with proof of payment of premium thereon. The insurance policies shall bear endorsements to the effect that the insurer agrees to notify Lessor not less than thirty (30) days in advance of any modification or cancellation thereof. Lessor shall be named as an additional insured on all insurance policies required by this lease.

7.5 Lessee will indemnify and hold Lessor harmless from and against all loss, cost, expense and liability whatsoever (including Lessor's cost of defending against the foregoing; such cost to include attorneys' fees) resulting or occurring by reason of Lessee's construction on, use of, or occupancy of the Premises.

8. Damage by Fire or Other Causes

8.1 If the Premises is partially damaged by fire or other peril without the fault or neglect of Lessee or of its servants, employees, agents, visitors, invitees or licenses, the damage shall be repaired by Lessor at Lessor's expense. If the Premises is substantially damaged (herein defined as fifty percent (50%) or more of the cost of replacement), Lessor may elect either to repair or rebuild the leasehold or the pool building, as the case may be, or to terminate this lease upon giving notice of such election in writing to Lessee within ninety (90) days after the event causing the damage. If Lessor elects to rebuild instead of terminating the lease, Lessor will rebuild something substantially similar to the current Premises, and Lessee shall in a timely manner repair or replace its fixtures, furniture, equipment and improvements to at least the condition of same prior to the damage.

9. Assignment/Subletting

9.1 Lessee shall not assign or sublet the Premises or any part thereof without the express prior written consent of the Lessor.

9.2 In no event shall a sublease be allowed that would jeopardize the tax-exempt status of the City.

9.3 Lessor may freely assign its rights and obligations under this Lease Agreement to any third party pursuant to a Purchase and Sale Agreement, Land Contract or similar instrument.

10. Use of Premises by Lessor

10.1 Lessor reserves for itself and its contractors and agents the right to enter the Premises at reasonable times for the purpose of inspecting, maintaining, installation, operation and repair services.

11. Covenant of Quiet Enjoyment

11.1 Lessor warrants and represents that it has full authority to execute this lease for the above term. Lessor covenants that upon Lessee paying the rents and performing its covenants and duties prescribed herein, Lessee may, except as otherwise described herein, have the exclusive and reasonable right to have, hold and enjoy the leasehold.

12. Lessor's Right to Perform Lessee's Obligation

12.1 If Lessee defaults in any term of this lease, Lessor may, without thereby waiving the default, remedy the default at Lessee's expense. If, in connection therewith, Lessor makes any expenditure or incurs any obligation for the payment of money or in instituting, prosecuting, or defending any action or proceeding commenced before or during the term of this lease, or after the expiration or termination of this lease including, but not necessarily limited to, legal expenses and attorneys' fees, Lessee shall pay to Lessor on demand the sums paid or obligations incurred together with legal fees and costs.

13. Default by Lessee

13.1 If the Lessee fails to pay rent when due; if the Lessee fails to perform any other obligations under this agreement within 30 days after receiving written notice of the default from the Lessor; if the Lessee makes any assignment for the benefit of creditors or a receiver is appointed for the Lessee or its property; or if any proceedings are instituted by or against the Lessee for bankruptcy (including reorganization) or under any insolvency laws, the Lessor may terminate this lease, reenter the Premises, and seek to relet the Premises on whatever terms the Lessor thinks advisable. Notwithstanding reentry by the Lessor, the Lessee shall continue to be liable to the Lessor for rent owed under this lease and for any rent deficiency that results from reletting the premises during the term of this lease. Notwithstanding any reletting without termination, the Lessor may at any time elect to terminate this lease for any default by the Lessee by giving the Lessee written notice of the termination.

13.2 In addition to the Lessor's other rights and remedies as stated in this lease, and without waiving any of those rights, if the Lessor deems necessary any repairs that the Lessee is required to make or if the Lessee defaults in the performance of any of its obligations under this lease, the Lessor may make repairs or cure defaults and shall not be responsible to the Lessee for any loss or damage that is caused by that action. The Lessee shall immediately pay to the Lessor, on demand, the Lessor's costs for curing any defaults, as additional rent under this lease.

13.3 The rights and remedies of Lessor shall be cumulative as more particularly provided at law or in equity pursuant to the laws of the State of Michigan.

14. Surrender of Leasehold Upon Termination of Lease

14.1 All renovations and improvements shall be at Lessee's expense and shall be considered fixtures and owned by Lessor upon termination of lease. Upon the expiration or termination of the lease, Lessee shall surrender the Premises in good order and condition, ordinary wear and tear excepted, and shall remove all of its property, fixtures, and equipment from the Premises. In removing its equipment, Lessee shall be solely liable for repairing any and all damages to the Premises. In the event that the Lessee fails to remove its equipment, and Lessor is required to do so, all costs and expenses incurred by Lessor in removing same and restoring the leasehold to useable condition shall be the financial responsibility of the Lessee.

14.2 If upon termination of the lease, Lessee has failed to remove its furniture, equipment, and fixtures, Lessor reserves the right to deem them abandoned and shall have the legal right to dispose of same, and costs incurred in disposing of same shall be the financial responsibility of Lessee.

15. Miscellaneous

15.1 This agreement shall be binding on the parties and inure to the benefit of the Lessor and Lessee and their respective successors and assigns.

15.2 This agreement shall be governed by and construed in accordance with the laws of the State of Michigan.

15.3 This agreement shall constitute the entire agreement between the parties. Any prior understanding or representation of any kind preceding the date of this agreement shall not be binding upon either party except to the extent incorporated herein.

15.4 Any modification of this agreement or additional obligations assumed by either party in connection with this agreement shall be binding only if evidenced in a writing signed by each party or an authorized representative of each party.

15.5 Waiver by Lessor of any breach of any covenant of duty of Lessee under this lease is not a waiver of a breach of any other covenant of duty of Lessee or any subsequent breach of the same covenant or duty.

15.6 The invalidity of any portion of this agreement will not and shall not be deemed to affect the validity of any other provision. In the event that any provision of this agreement is held to be invalid, the parties agree that the remaining provisions shall be deemed to be in full force and effect as if they had been executed by both parties subsequent to the expungement of the invalid provision.

15.7 All notices to be given under this lease shall be in writing and mailed, postage prepaid, or by certified or registered mail, return receipt requested, or delivered personally or by courier delivery, or sent by telecopy (immediately followed by one of the preceding methods) to Lessor's address and Lessee's address as above stated or any other place that Lessor or Lessee may designate in a written notice given to the other parties. Notices shall be deemed served on the earlier of receipt or three (3) working days after the date of mailing.

The parties have set their hands on the day and year first above written.

MOOSEWOOD NATURE CENTER

Scot Stewart

By:
Its: Board chair

By:
Its:

CITY OF MARQUETTE,

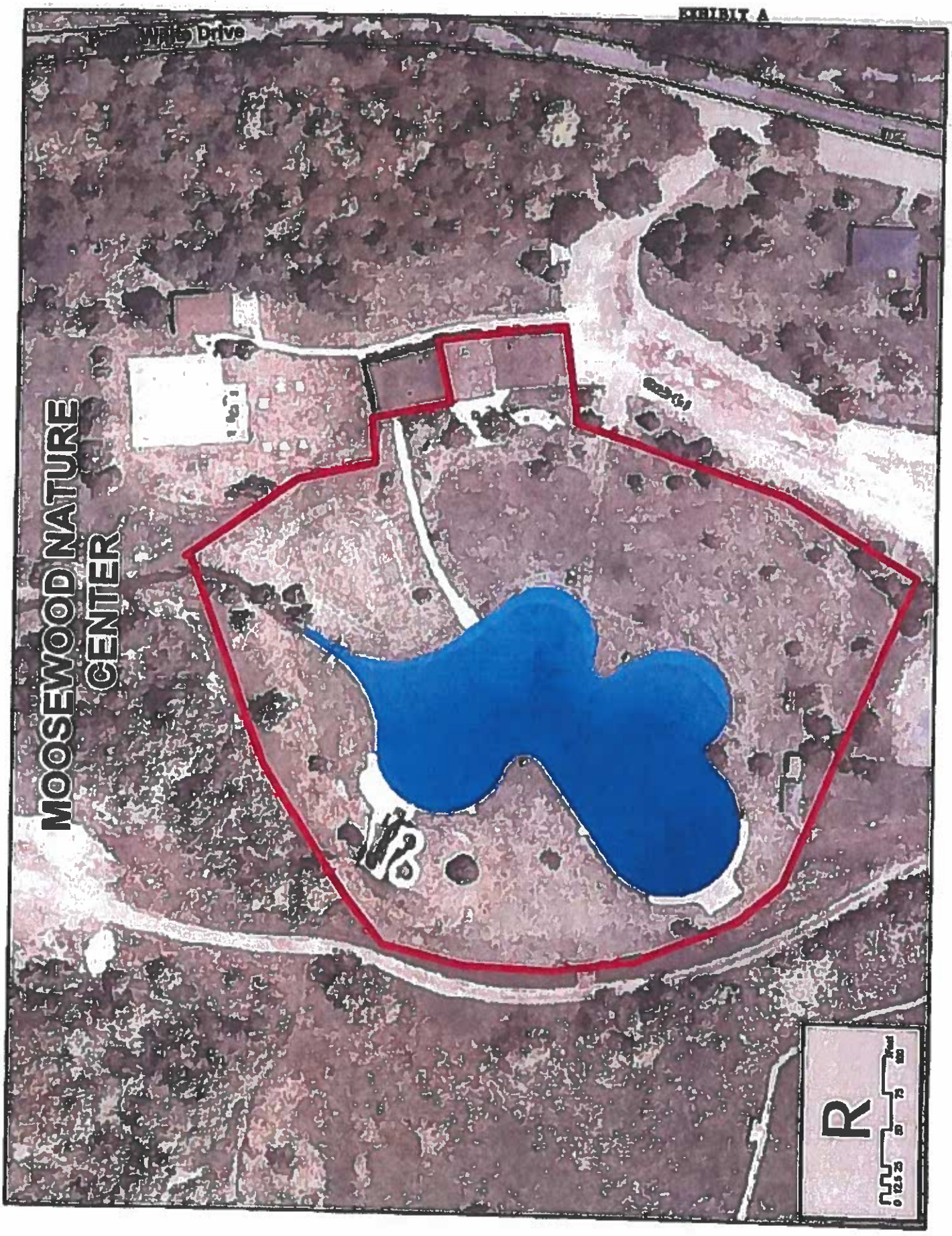
, Mayor

Kyle Whitney, Clerk

APPROVED AS TO FORM

Karen M. Kovacs, City Manager

Suzanne C. Larsen, City Attorney


EXHIBIT A
Drive
MOOSEWOOD NATURE CENTER
R

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 12/14/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	**CONTACT NAME:** IBU IBU
Vast	**PHONE (A/C, No, Ext):** (906) 228-7500 **FAX (A/C, No):** (906) 228-5385
300 South Front Street	**E-MAIL ADDRESS:** katrinam@vastsolution.com
Marquette MI 49855	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A:** West Bend Mutual 15350
INSURED	**INSURER B:**
Moosewood Nature Center, Inc.	**INSURER C:**
P.O. Box 773	**INSURER D:**
	INSURER E:
Marquette MI 49855	**INSURER F:**

COVERAGES **CERTIFICATE NUMBER:** 23-24 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:	Y		0776780	10/23/2023	10/23/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 500,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] N/A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						[ ] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate holder is additional insured in regards to the general liability per form CG 20 11.

CERTIFICATE HOLDER

CITY OF MARQUETTE
300 W BARAGA AVE
MARQUETTE MI 49855

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote
Sale of Surplus Equipment

BACKGROUND:

City staff auctions or sells and trades obsolete equipment based on operational needs. A 2018 Titan Pro Mark 98:2 Paint Striper has been recommended for sale due to the safety hazards associated with the paint and cleaning supplies needed for operation.

FISCAL EFFECT:

Proceeds from the sale of this vehicle will be credited to the City's Motor Pool Fund - Sale of Fixed Assets

RECOMMENDATION:

Declare a 2018 Titan Pro Mark 98:2 Paint Striper and paint as surplus, and authorize City staff to prepare equipment for auction.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

No Attachments Available

Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote
Sault Ste. Marie Tribe of Chippewa Indians Funding for The Marquette Maritime Museum Association, Inc.

BACKGROUND:

Recently staff from The Marquette Maritime Museum Association, Inc. asked the City to serve as the fiscal pass-through agent for funding from the Sault Ste. Marie Tribe of Chippewa Indians. They plan to ask the Tribe for $5,000 to help repair the roof of their museum building in order to continue operating. In addition to regular operations, the museum provides free fieldtrips for school groups and programming for children. In consideration of the City agreeing to act as a pass-through, The Marquette Maritime Museum Association, Inc. agrees to dedicate any funds received from the Sault Ste. Marie Tribe to the purposes set forth in the attached agreement prepared by the City Attorney.

Proceeds from the Tribe's 2% gaming revenue would be used to fund the request; gaming regulations require that a local municipality serve as the fiscal agent for such awards. This payment is not allocated to the City of Marquette, but is a contribution to The Marquette Maritime Museum Association, Inc.

FISCAL EFFECT:

No direct cost to the City.

RECOMMENDATION:

Approve the request to act as the fiscal intermediary for Sault Ste. Marie Tribe funding of $5,000 to assist The Marquette Maritime Museum, Inc. with funding to repair the roof of their museum building.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- Maritime Museum Sault Tribe Request
- Maritime Museum Agreement

Marquette Maritime Museum

Preserving Marquette's Maritime History Since 1984

Mail: PO Box 1096
Location: 300 N. Lakeshore Blvd
Marquette, MI 49855

mqtmaritimemanager@gmail.com
www.mqtmaritimemuseum.com
906-226-2006

February 1, 2024

Karen Kovacs, City Manager
City of Marquette
300 W Baraga Ave.
Marquette MI 49855

Dear Ms. Kovacs,

The Marquette Maritime Museum is requesting that the City of Marquette act as the fiscal intermediary for a $5,000 request to the Sault Ste. Marie Tribe of Chippewa Indians from their 2% funding to help with the cost of a new roof for the Museum building.

The Museum building (City of Marquette's 1891 Waterworks) houses our archival collections, a museum gallery, a gift shop, and administrative offices. Both the north and east-facing sides of the Museum roof have sustained damage over the years, resulting in missing and faulty shingles. Unfortunately, the roof is composed of asbestos shingles that need to be removed with proper asbestos abatement practices. The current roof was installed sometime in the 1940s, and in the last few years, the old shingles having been rapidly deteriorating, especially on the north side and around a large patch on the lake-side. We have been informed by our insurance company that we must replace the roof to keep our current coverage.

The 2% funds will be used to continue to support the Museum as a recreation program for the citizens of Marquette. We offer free school field trips and free children's art/history workshops and replacing the roof is necessary for us to continue to provide these services.

We are asking the City of Marquette to act as the fiscal agent and forward our request to the Sault Ste. Marie Tribe of Chippewa Indians. Thank you for your consideration.

Sincerely,

Hilary Billman

Hilary Billman,
Director

AGREEMENT

This Agreement is entered into this _____ day of _____, 2024, between the CITY OF MARQUETTE, a municipal corporation, with offices located at 300 W. Baraga Avenue, Marquette, MI 49855 (hereinafter referred to as the "City"), and THE MARQUETTE MARITIME MUSEUM ASSOCIATION, INC., a Michigan nonprofit corporation, with offices located at 300 N. Lakeshore Blvd, Marquette, MI 49855 (hereinafter referred to as "MMM");

WHEREAS, the MMM operates a historical maritime museum, which provides a recreation program for the citizens of Marquette via free school fieldtrips and children's art and history workshops, which is vital in supporting youth development in our community,

WHEREAS, the MMM is seeking funding to repair the roof of their museum building in order to continue operating,

WHEREAS, Marquette City Charter Section 2-14 states: "The city commission shall provide for a public recreation program for the residents of the city;" and

WHEREAS, the Marquette City Commission having determined that the activities of the MMM are a valid purpose under the Charter and is willing to enter into this Agreement with MMM for the support of its program, upon certain terms and conditions.

NOW, THEREFORE, the parties agree:

1. That for and in consideration of the payment by the City to the MMM of the sum of $5,000 from the Sault Ste. Marie Tribe of Chippewa Indians, the MMM will accept said money from the City to assist the City in carrying out its obligation to provide a public recreation program for its residents.

2. That the parties further understand and agree that the payment of the sum of $5,000 by the City to the MMM as above-described is contingent upon the prior receipt by the City of the amount from the Sault Ste. Marie Tribe of Chippewa Indians, and that if said payment is not received by the City, the City shall have no obligation to make the payment herein described to the MMM.

The signatories hereto certify that they are authorized to execute this document on behalf of the respective parties.

Dated: _____

_____
By: Karen M. Kovacs
Marquette City Manager

Dated: February 5, 2024

Hilary Billman
By: Hilary Billman, Director
THE MARQUETTE MARITIME
MUSEUM ASSOCIATION, INC.

Agenda Date: 2/12/2024

Consent Agenda - Roll Call Vote
The Marquette Maritime Museum Association, Inc. - Use Agreement

BACKGROUND:

The Marquette Maritime Museum Association, Inc. has requested the City Commission renew an agreement to allow them to conduct tours of the lighthouse on the property previously owned by the U.S. Coast Guard. The Marquette Maritime Museum Association, Inc. and City have been partnering under a similar agreement since 2017. Staff has worked with the City Attorney and The Marquette Maritime Museum Association, Inc. to draft a standard Use Agreement which provides for the terms and conditions of the request. The monthly payment will be one-half of The Marquette Maritime Museum Associations, Inc.'s gross revenue derived from lighthouse tours. The term of the agreement shall be from January 1, 2024 through December 31, 2027.

The City of Marquette Lighthouse Property Land Use Plan supports this agreement.

FISCAL EFFECT:

The Lakeshore and Lighthouse Park Fund will receive one-half of the gross monthly revenue derived from lighthouse tours. Last year the City received $15,350.

RECOMMENDATION:

Approve the Agreement for Use of the Marquette Lighthouse with The Marquette Maritime Museum Association, Inc. for the purpose of conducting lighthouse tours, and authorize the Mayor and Clerk to sign the agreement.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- Use Agreement, Insurance and Exhibit A

AGREEMENT FOR USE OF MARQUETTE LIGHTHOUSE

This Agreement, made and entered into this _____ day of _____, 2024, by and between the City of Marquette, a municipal corporation, of 300 W. Baraga Avenue, Marquette, MI 49855 (hereinafter referred to as the "City"), and The Marquette Maritime Museum Association, Inc., (hereinafter referred to as the "MMM") of PO Box 1096, Marquette, MI 49855.

WHEREAS, the City is the owner and operator of the Marquette Lighthouse adjacent boathouse, catwalks and grounds at 300 N. Lakeshore Blvd., Marquette, Michigan ("Lighthouse"); and

WHEREAS, the City is willing to allow MMM use of the Lighthouse in accordance with the terms and conditions contained herein from January 1, 2024 through December 31, 2027.

NOW, THEREFORE, in consideration of the mutual promises of the parties and other good and valuable consideration, it is agreed as follows:

1. MMM will pay to City a monthly fee equal to half of MMM's gross revenue derived from docent-lead lighthouse and grounds tours. MMM will make each payment no later than the 15 days following the end of each month, and shall provide to City, with payment, a financial statements verifying all revenue for tours for the month immediately proceeding.

2. City grants access and use of the Lighthouse, including adjacent boathouse, catwalks and surrounding grounds, to MMM during the term of this agreement. This access shall be to the Lighthouse and adjacent boathouse only and not to any other buildings or facilities located on the Lighthouse grounds, and access shall be for pedestrian and storage usage only. Access to other buildings or facilities on the Lighthouse grounds may be granted by the City's Community Services Director or by his/her specified designee. MMM shall be issued an access code for the Lighthouse and two keys for any gate for the duration of this term, which may not be copied and

which must be returned to the City upon expiration of this agreement. As part of its use, MMM may create and maintain historic displays and related items in the Lighthouse, however all such items shall be kept in such a way as to not violate local health and safety codes.

3. MMM's access and use of the Lighthouse shall only be for the purposes of maintaining displays, training employees and conducting guided tours. MMM shall limit tours to normal park hours (7:00 a.m. until 11:00 p.m.) unless MMM notifies Community Services Director or his/her designee of special tour dates and times.

4. Maintenance of the Lighthouse shall be the responsibility of the City, and such maintenance will be performed based on the Historic Structure Report commissioned January 28, 2013, a copy of which is on file at the City. Such maintenance will be done to the extent needed to ensure safety, well being and maintenance of aesthetics of the Lighthouse. MMM shall be responsible for notifying City of needed maintenance within seven (7) days of discovery. City shall provide a minimum of twenty-four (24) hours notice of performance of maintenance and all maintenance will be performed in a reasonable time frame.

5. The City shall be notified in writing of any damage to the Lighthouse or grounds resulting from a tour within twenty-four (24) hours after the damage occurs. The City is responsible for all repairs resulting from MMM's use, at MMM's expense. MMM shall pay City no later than seven (7) days after repairs are made.

6. MMM agrees to indemnify and hold harmless the City, its officials, employees, volunteers and others working on behalf of the City against any and all claims, demands, suits or loss, including all costs connected therewith and for any damages which may be asserted, claimed or recovered against or from the City, its officials, employees, volunteers and others working on behalf of the City by reason of personal injury, including bodily injury or death and/or property

damage, including loss of use thereof, which arises out of or is in any way connected or associated with this Agreement.

7. MMM shall procure and maintain insurance for the duration of this Agreement against liability claims for injuries to persons or damages to property which may arise from or in connection with MMM's use of the Lighthouse. All required insurance policies shall name the City as an additional insured. The insurance required by this Agreement shall be in amounts acceptable to the City and shall be endorsed to state that coverage shall not be reduced or canceled except after thirty (30) days notice to the City by certified mail, return receipt requested. MMM shall have a continuing obligation to provide City with a copy of its valid insurance policies, and shall promptly provide City an updated copy upon renewal.

8. The City has the right to inspect the Lighthouse at any time, and will make reasonable efforts to have MMM staff available, as may be deemed necessary. Any violation noted in any inspection, which does not result from US Coast Guard or City use of the Lighthouse, shall be corrected by MMM within twenty-four (24) hours. The City may close the Lighthouse at any point and for any period of time if violations are not corrected as required or if such violation provides imminent health and safety concerns. City will provide immediate notice to MMM of such closure.

9. Upon written consent of the City's Community Services Department, MMM may construct temporary structures on the Lighthouse grounds.

10. The occurrence of any of the following shall constitute a default by the User Group:

a. Failure to perform any provision of this Agreement, if the failure to perform is not cured within thirty (30) days after the City provides written notice to MMM.

b. Failure to maintain insurance as required by this Agreement, which shall be

cause for immediate termination of this Agreement by the City.

c. MMM files a petition in bankruptcy or insolvency or for reorganization, or involuntary proceedings are filed against the User Group under applicable bankruptcy laws.

d. MMM modifies its corporate structure without providing notice to the City.

e. MMM fails to uphold any obligation set forth herein.

11. In the event of default, the City shall provide MMM written notice of default. MMM shall have thirty (30) days after notice is provided to cure said default. MMM may request a meeting to discuss the default notice with the City Manager and City staff, within the thirty (30) day period. No notice shall be deemed a forfeiture or termination of this Agreement unless the City specifies such in the notice. In the event MMM does not cure the default within the allowed thirty (30) day time period, the City shall have the following remedies, which shall not be exclusive and shall be in addition to any other remedies now or later allowed by law:

a. The City may elect to continue this Agreement.

b. The City may terminate this Agreement, by providing specific written notice to this effect.

c. The City shall be entitled to recover all amounts, including any attorney fees incurred by the City in pursuit of the default.

12. Any notice required under this Agreement shall be in writing and served by prepaid, first class mail to the address listed on the first page of this Agreement, or any other address as either party may provide to the other in writing.

13. No delay or omission in the exercise of any right or remedy of the City on any default by MMM shall impair such right or remedy or be construed as a waiver of the right to pursue such remedy.

14. Nothing in this agreement shall render the City in any way a partner, in joint ventureship with MMM.

15. Upon expiration or termination of this agreement, and without any extensions or renewals of this Agreement, MMM shall either renew this Agreement, enter into a new agreement, or at its sole expense:

a. Remove all of its goods, effects, and equipment.

b. Return the keys to the Lighthouse to the City.

c. Return the keys to the gates to the City.

Any goods, effects or equipment owned by the MMM that are not removed shall be deemed to have been abandoned and shall become the property of the City.

This Agreement may be extended for future terms, subject to the outcome and objectives of the land use plan currently being performed by the City.

16. This Agreement contains the entire agreement of the parties with respect to its subject matter. This Agreement may not be modified except by a written document signed by the parties.

17. This Agreement shall bind and benefit the parties and their successors and permitted assigns.

18. This contract is executed in the City of Marquette, State of Michigan, and shall be construed under the laws of the State of Michigan, and the parties agree that any action relating to this contract shall be instituted and prosecuted in the courts of the County of Marquette, State of Michigan, and each party waives the right to change of venue.

19. MMM's primary contact with the City shall be through the City of Marquette Community Services Director, or any person designated by him/her.

20. The MMM may terminate the agreement with 30 days notice, in writing, to the City

Manager.

CITY OF MARQUETTE

Sally Davis, Mayor

Kyle Whitney, City Clerk

MARQUETTE MARITIME MUSEUM ASSOCIATION, INC.

By: Hilary Dillman
Its: Director

By:
Its:

APPROVED AS TO SUBSTANCE:

Karen M. Kovacs, City Manager

APPROVED AS TO FORM:

Suzanne C. Larsen, City Attorney

EXHIBIT A



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 1/29/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Shelly Malay	
Elder Agency 500 S Third St Marquette MI 49855	PHONE (A/C, No, Ext): (906) 228-9292	FAX (A/C, No):
	E-MAIL ADDRESS: smalay@elderagency.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : FREMONT INS CO	13994
INSURED	INSURER B :	
Marquette Maritime Museum Association Inc PO Box 1096 Marquette MI 49855	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:	Y		CPP 0051834 08	08/01/2023	08/01/2024	EACH OCCURRENCE	$ 2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 2,000,000
							GENERAL AGGREGATE	$ 4,000,000
							PRODUCTS - COMP/OP AGG	$ 4,000,000
								$
	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident)	$
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE	$
							AGGREGATE	$
								$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N [ ] (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		WCP 0019152 08	07/27/2023	07/27/2024	[ ] PER STATUTE [ ] OTH-ER	
							E.L. EACH ACCIDENT	$ 100,000
							E.L. DISEASE - EA EMPLOYEE	$ 100,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

City of Marquette is listed as additional insured
All Premiums are paid to date

CERTIFICATE HOLDER

City of Marquette
300 W. Baraga Ave
Marquette MI 49855

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
Shelly Malay

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Agenda Date: 2/12/2024

New Business
Lake Superior Shoreline Restoration Project - Contract Approval

BACKGROUND:

Plans have been developed for the restoration of the Lake Superior shoreline adjacent to Lakeshore Boulevard between Hawley Street and Pine Street. This proposed project includes shoreline armoring and stabilization, habitat restoration and the creation of enhanced public areas. Baird Engineering was the consulting engineer utilized for this project. This project is partially funded by a grant from the National Fish and Wildlife Foundation.

The City publicly advertised a request for construction bids for this project and four bidders responded. A bid opening occurred on May 5, 2022 and results are summarized below.

Contractor	Bid
Smith Construction, Inc.	$4,312877.60
Payne and Dolan, Inc. - Milwaukee	$6,248,763.95
A. Lindberg & Sons	$6,291,840.70
Bacco Construction Company	$6,345,920.20
Engineers Estimate (Baird)	$7,360,000.00

At their May 31, 2022 meeting, the City Commission tentatively selected Smith Construction as the contractor pending final approval of permits from EGLE and the US Army Corps of Engineers. This bid was set to expire 120 days after bid opening and was extended by mutual agreement. Due to unique circumstances, the project permits were not issued until November 15, 2023. Some modifications were made to the design to allow for permitting.

The City recently requested updated costs from Smith Construction, Inc. to account for design modifications and construction cost increases. Smith provided the City with an updated proposal to complete the revised project at a cost of $5,817,941.26.

FISCAL EFFECT:

Sufficient funds were approved in the FY 2022 budget and were part of the FY 2022 bond package.

RECOMMENDATION:

Approve a contract with Smith Construction for the Lake Superior Shoreline Restoration Project at cost of $5,817,941.26 based on quantities and unit prices in the proposal, allow the City Manager to use a 10 percent contingency for any unknown circumstances, and authorize the Mayor and Clerk to sign the contract.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- Construction Contract
- Construction Cost Proposal
- Construction Plans
- Certificate of Insurance
- Construction Cost Information

CITY OF MARQUETTE
CHAPTER 3
CONSTRUCTION CONTRACT

PROJECT NAME: Lake Superior Shoreline Restoration

PROJECT NUMBERS: MQ13-502

THIS AGREEMENT, made this _____, between the City of Marquette, a Michigan Municipal Corporation, hereinafter called the "City" of 300 W. Baraga Avenue, Marquette, MI 49855, and Smith Construction, Inc. of Marquette Michigan, a Domestic Profit Corporation, holding license number 800021195, hereinafter called "Contractor".

WITNESSETH: That for and in consideration of the payments and Agreements hereinafter mentioned, the parties hereby agree as follows:

ARTICLE 1

CONTRACT DOCUMENTS

The "Contract Documents" consist of, but are not necessarily limited to, this Agreement, the invitation to Bid, Information for Bidders, Bidders Proposal, Addenda, Specifications, Supplemental Specifications, Special Provisions, Construction Drawings, Notice to Proceed, Allowances, Finish Schedules and any additional documentation issued prior to execution of this Agreement and all Change Orders as approved by the City. These Contract Documents represent the entire Agreement and understanding between the parties hereto.

ARTICLE 2

SCOPE OF WORK

Contractor will furnish all the materials, supplies, tools, equipment, labor and other services necessary for the construction and completion of the project described in the Contract Documents.

ARTICLE 3

MATERIALS, APPLIANCES, and EMPLOYEES

Except as otherwise noted, the Contractor shall provide and pay for all materials, labor, tools and other items necessary to complete the work. Unless otherwise specified, all materials shall be new, and both workmanship and materials shall be of good quality. All workmen shall be skilled in their trades.

ARTICLE 4

TIME OF COMPLETION

The commencement date of this project is February 19, 2024, and the completion date of this project is October 19, 2025. The Contractor shall be penalized in the amount of $2,650 per day if the project is not completed by the contract completion date unless the period for completion is extended by change order.

ARTICLE 5

CONTRACT SUM

The Contractor agrees to perform all of the work described in the Contract Documents and comply with the terms therein for the sum of $5,817,941.26, subject to additions and deductions pursuant to authorized change orders and allowances.

ARTICLE 6

PAYMENTS

The City will pay to the Contractor in the manner and at such times as set forth in the Specifications such amounts as required by the Contract documents.

ARTICLE 7

CONTRACTOR'S OBLIGATIONS

1. All work shall be in accordance to the provisions of the Contract Documents. All systems shall be in good working order.
2. All work shall be completed in a workmanlike manner and shall comply with all applicable laws.
3. Contractor shall obtain all necessary permits for the work to be completed.
4. Contractor shall remove all construction debris and leave the project in a "broom clean" condition.
5. Upon satisfactory payment being made for the work performed by Contractor, Contractor shall furnish a full and unconditional Release of Lien for the work of which payment has been made.
6. Safety and Fire Protection:
   The Contractor shall be responsible for safety at the construction site. The Contractor will further comply with all applicable laws, rules and regulations of the Michigan Department of State Police, Fire Marshall Division, the State Fire Safety Board, Michigan Occupational Safety and Health Administration, and Local Agencies. Precaution shall be exercised at all times for the protection of persons and of property. The safety provisions of applicable laws, rules, regulations, building and construction codes shall be followed. Safety Hazards shall be guarded in accordance with safety provisions of the Manual of Accident Prevention in Construction published by The Associated General Contractors of America to the extent that such provisions are not in conflict with applicable laws.

ARTICLE 8

CONTRACTOR'S STATUS AS INDEPENDENT ENTITY

The City shall not assume any liability for the Contractor in the performance of the construction project, methods, techniques, sequences or programs in connection with the project since these are solely the Contractor's responsibility.

ARTICLE 9

CHANGE ORDERS AND PAYMENT

A change order is any change to the original plans and/or specifications. All change orders need to be agreed upon between the parties hereto, and address additional costs, time, consideration and dates when the work will begin and be completed. Change orders are not effective unless signed by both parties who shall not unreasonably withhold approval of the same. However, should the Contractor unreasonably refuse to approve a change order reasonably and in good faith submitted by the City, the City Engineer shall be empowered to make a final and fair determination as to the necessity for the change order and the fair and equitable cost to the Contractor and shall further be empowered to issue a final payment to the Contractor. Should the Contractor refuse to accept said final payment, the funds may be deposited in an Escrow Account by the City for the benefit of the Contractor.

ARTICLE 10

INSURANCE

The Contractor shall purchase and maintain Workman's Compensation and Liability Insurance coverage as required by law and deemed necessary for its own protection. Said insurance shall be written by an insurance carrier having at least an "A, VII" rating. The Contractor shall further name the City as an additional insured on all applicable insurance policies covering the project. Said insurance shall be in minimum limits of at least $5,000,000.00 for both general liability and automobile liability. The Contractor shall further maintain such insurance as will protect it from claims under worker's compensation acts and other employee benefits acts, from claims for damages because of bodily injury, including death, and from claims for damages to property which may arise both out of and from claims for damages to property which may arise both out of and during operations under this contract, whether such operations are by Contractor or by anyone directly or indirectly employed by the Contractor. This insurance shall be written for not less than any limits of liability specified as part of the Contract Documents. Certificates of such insurance shall be filed with the City.

ARTICLE 11

INDEMNIFICATION

To the extent allowed by MCL 691.991, the Contractor shall indemnify and hold harmless the City, the City's officers, directors, members, partners, agents, and employees against all liability claims and judgments or demands for damages arising from accidents to persons or property occasioned by the Contractor, its agents or employees, and against all claims or demands for damages arising from accidents to the Contractor, its agents or

employees, whether occasioned by said Contractor or its employees or by City or its employees or any other person or persons, and the said Contractor will defend any and all suits that may be brought against the City on account of any such accidents and will make good to, and reimburse, the City for any expenditures that said City may make by reason of such accidents; provided, however, that the Contractor shall not be responsible to the City on indemnity for damages caused by or resulting from the City's sole negligence.

ARTICLE 12

CITY'S RIGHT TO TERMINATE THE CONTRACT

Should the Contractor neglect to perform the work properly or fail to perform any provision of the Contract, the City, after seven (7) days' written notice to the Contractor, and its surety, if any, may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor or, at its option, may terminate the Contract and take possession of all materials, tools and appliances and finish the work by such means as it sees fit, and if the unpaid balance of the contract price exceeds the expense of finishing the work, such excess shall be paid to the Contractor, but if such expense exceeds such unpaid balance, the Contractor shall pay the difference to the City.

ARTICLE 13

CONTRACTOR'S RIGHT TO TERMINATE CONTRACT

Should the work be stopped by any public authority for a period of ninety (90) days or more, through no fault of the Contractor, or should the work be stopped through act or neglect of the City for a period of ninety (90) days, then the Contractor, upon seven (7) days' written notice to the City, may stop work or terminate the Contract and recover from the City payment for all work executed and any loss sustained and reasonable profit and damages.

ARTICLE 14

ACCESS TO WORK

The Contractor shall permit and facilitate observation of the work by the City and its agents and public authorities at all times.

ARTICLE 15

ARBITRATION OF DISPUTES

Any disagreement arising out of this contract or from the breach thereof shall be submitted to arbitration, and judgment upon the award rendered may be entered in the court of the forum, state or federal, having jurisdiction. It is mutually agreed that the decision of the arbitrators shall be a condition precedent to any right of legal action that either party may have against the other. The arbitration shall be held under the Rules of the American Arbitration Association.

ARTICLE 16

WARRANTY

At the completion of this project, Contractor shall execute an instrument to City warranting the project for two (2) years against defects in workmanship or materials utilized. In addition the warranty shall specifically include the replacement of concrete that spalls more than 30% per 10 foot section of curb and gutter, the replacement of concrete that spalls more than 30% per driveway apron square or sidewalk square, and the replacement of stamped concrete that spalls more than 30% of the area between each sidewalk square and the curb. The manufacturer's warranty shall prevail.

At the time of completion, the Contractor shall furnish to the City material containing complete operation and maintenance instructions for all equipment in the project. The Contractor shall also furnish to the City at the time of completion all documents, warranties and guarantees on all equipment and services provided.

The Contractor shall re-execute any work that fails to conform to the requirements of the Contract and that appears during the progress of the work and shall remedy any defects due to faulty workmanship, which appear within a period of two (2) years from the date of completion of the Contract or such longer period of time as may be prescribed by laws or regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents. All equipment and materials will be warranted and guaranteed under the original equipment manufacturer's warranties and guarantees.

The Contractor shall restore any work damaged in fulfilling the terms and conditions of this Article. After such repair or replacement has been satisfactorily completed, the Contractor's warranty with respect to such work repaired or replaced will be extended for an additional period of one (1) year beyond the warranty period described above. Contractor's obligations under this paragraph are in addition to any other obligation or warranty.

The terms of the Local Pavement Warranty Program adopted by the City of Marquette are hereby incorporated by reference into this contract and made a part hereof.

ARTICLE 17

FEDERAL-AID CONTRACTS

During the performance of every contract subject to Title VI of the Civil Rights Act of 1964 and Title 49, Code of Federal Regulations, Department of Federally-assisted programs of the Department of Transportation issued pursuant to the Act, the Contractor, for itself, its assignees and successors in interest agrees as follows:

1. **Compliance with Regulations**: The Contractor shall comply with Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
2. **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, sex or national origin in the selection, retention and treatment of Subcontractors, including procurements of materials in the discrimination prohibited by Section 21.5 of the Regulation, including employment practices when the Contractor covers a program set forth in Appendix B of the Regulations.

3. **Solicitation for Subcontracts, including Procurements of Materials and Equipment**: In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential Subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under the contract and the Regulations relative to nondiscrimination on the grounds of race, color or national origin.
4. **Information and Reports**:
   The Contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State Highway Department of the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the State Highway Department or the Federal Highway Administration, as appropriate, and shall set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance**:
   In the event the Contractor's noncompliance with the nondiscrimination provisions of this contract, the State Highway Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
   a) Withholding payments to the Contractor under the contract until the Contractor complies; and/or
   b) Cancellations, termination or suspension of the contract, in whole or in part.
6. **Incorporation of Provisions**:
   The Contractor shall include provisions of paragraphs (1) through (6) in every subcontract, including procurement of material and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the State Highway Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance; provided, however, that, in the event a Contractor becomes involved in, or is threatened with, litigation with a Subcontractor or supplier as a result of such direction, the Contractor may request the State Highway Department to enter into such litigation to protect the interests of the State, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

ARTICLE 18

INTEGRATION

This Agreement represents the entire understanding between the parties hereto and may not be amended, except in writing that is signed by both parties hereto.

ARTICLE 19

BINDING AGREEMENT

This Agreement will bind and inure to the benefit of the heirs, executors, administrators, successors and assigns of the parties.

ARTICLE 20

PURCHASING AGENT DESIGNATION AND AUTHORITY

Mikael H. Kilpela is designated as Purchasing Agent of City and is authorized to order minor changes in the work not involving adjustment in the Contract Sum or Time of Completion and not inconsistent with the intent of the Contract Documents. Such changes will be affected by written order signed by the Purchasing Agent and shall be binding on the City and Contractor.

IN WITNESS WHEREOF, the parties have made and executed this Agreement, the day and year first above written.

Signed this _____ day of _____, 20___.

THE CITY OF MARQUETTE

_____
Witness

_____
Sally Davis, Mayor
City of Marquette

_____
Witness

_____
Kyle L. Whitney, City Clerk
City of Marquette

Smith Construction, Inc.

Mikael Kilpela
Witness

Jeellen Vessels
Witness

Wyatt Smith
By: Wyatt Smith

Its: Vice President

Address: 4090 US 41 W Marquette MI 49855

Telephone#: 906 228 7285

APPROVED AS TO FORM:

_____
Suzanne C. Larsen
City Attorney

APPROVED AS TO SUBSTANCE:

_____
Karen M. Kovacs
City Manager

General Info

Total:

$5,817,941.26

Number

BP22-04 Updated Pricing Extension

Deadline

02/02/2024 12:00 PM EST

Vendor

Smith Construction, Inc

Submitted

01/31/2024 02:14 PM EST

Signed by

John Daavettila **Account Holder** John Daavettila

Opened

01/31/2024 02:20 PM EST **By** kwessels@marquettemi.gov

Description

Request for updated unit prices from Smith Construction.

Allows zero unit prices and labor

Yes

Allows negative unit prices and labor

Yes

Attachment List

01_Cover - ADD 6.pdf (299 KB)

02_Chapter 5-6 Specs - ADD6.pdf (1.01 MB)

03_Chapter 7 Drawing List - ADD6.pdf (57 KB)

05_App I - Wage Rates - ADD6.pdf (53.5 KB)

06_App II - Permits - ADD6.pdf (39.6 MB)

07_Bid Drawing Addenda - ADD6.pdf (48.1 MB)

04_Chapter 8 Schedule of Items ADD6 - Updated 1-26-24.pdf (227 KB)

Schedule of Items

$5,817,941.26

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
1	Mobilization	LS	1.0000	$502,750.00	$502,750.00
2	Demolition – Existing Bike Path	LF	2,875.0000	$6.00	$17,250.00
3	Demolition – Existing Roadway	LF	3,280.0000	$15.50	$50,840.00
5	Upland Excavation – Unsuitable Material (Non-Contaminated)	CY	1,724.0000	$15.50	$26,722.00
6	Upland Excavation – Unsuitable Material (Contaminated)	CY	987.0000	$10.00	$9,870.00
7	Removal of 73' existing 42" x 68" storm sewer	LS	1.0000	$12,000.00	$12,000.00
8	Removal of Existing Abandoned Sanitary Force Main	LF	970.0000	$2.50	$2,425.00
9	Construction Fencing	LF	10,233.0000	$3.35	$34,280.55
10	Silt Fence	LF	2,405.0000	$2.65	$6,373.25
11	Inlet Protection	EA	2.0000	$110.00	$220.00
12	Erosion Control Mat	SY	50,390.0000	$2.96	$149,154.40
13	Gravel Access Approach	EA	4.0000	$1,200.00	$4,800.00
14	Dust Control	LS	1.0000	$1,200.00	$1,200.00
15	Upland Excavation (Suitable Material)	CY	8,883.0000	$12.00	$106,596.00
16	Clean Fill (On-site soil)	CY	8,883.0000	$7.00	$62,181.00
17	Imported Clean Fill (In excess of available on-site soil)	CY	4,641.0000	$15.00	$69,615.00
18	Fine Grading	ACRE	10.4400	$4,100.00	$42,804.00
19	Upland Sand for Dune (6" depth)	CY	1,252.0000	$40.00	$50,080.00
20	Upland Sand for Side Slopes (avg. 3" depth)	CY	2,393.0000	$40.00	$95,720.00
21	Topsoil for Side Slopes (avg. 3" depth)	CY	2,393.0000	$48.00	$114,864.00
22	Topsoil for Fill Area Restoration (4” depth)	CY	762.0000	$48.00	$36,576.00
23	Topsoil for Swales (6" depth)	CY	1,788.0000	$48.00	$85,824.00
					Total: $5,817,941.26

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
24	Soil Mix for Backwater Wetland Areas (6" depth)	CY	207.0000	$55.00	$11,385.00
25	Shade Trees - 2 1/2" Cal.	EA	66.0000	$715.00	$47,190.00
26	Evergreen Trees - 6' Ht.	EA	27.0000	$630.00	$17,010.00
27	Tree Guard	EA	66.0000	$26.50	$1,749.00
28	Tree Staking	EA	93.0000	$65.00	$6,045.00
29	Shrubs - 5 Gal.	EA	210.0000	$64.00	$13,440.00
30	Shrubs - 3 Gal.	EA	374.0000	$41.50	$15,521.00
31	Shrubs - 1 Gal.	EA	79.0000	$26.50	$2,093.50
32	Perennials - Plugs	EA	7,084.0000	$5.15	$36,482.60
33	Emergent Plants - Plugs (4,543 SF @ 24" O.C.)	EA	1,716.0000	$6.80	$11,668.80
34	Dune Grass - Stolons (93,446 SF @ 24" O.C.)	EA	26,055.0000	$1.65	$42,990.75
35	Dune Seed Mix and Great Lakes Barrens Seed Mix A	ACRE	4.8100	$4,482.58	$21,561.21
36	Great Lakes Barrens Seed Mix B	ACRE	4.9200	$3,951.31	$19,440.45
37	Great Lakes Barrens Seed Mix C	ACRE	1.5500	$6,193.11	$9,599.32
38	Great Lakes Marsh Seed Mix	ACRE	0.7900	$6,143.96	$4,853.73
39	Vegetation Management – All Areas (including preserved areas) 3 years	ACRE	12.3700	$7,385.00	$91,352.45
40	Ramps and Deck Structures	SF	990.0000	$550.00	$544,500.00
41	Stone Aggregate (Supply, Transport & Placement)	CY	205.0000	$62.00	$12,710.00
42	LVSP Pavement	TON	90.0000	$400.00	$36,000.00
43	Roll Out Beach Walk	LF	55.0000	$180.00	$9,900.00
44	Signage	LS	1.0000	$1,500.00	$1,500.00
45	Installation of Monitoring Benchmarks	EA	10.0000	$500.00	$5,000.00
47	Living Revetment (Comprised of Stone) - Shoreline	CY	9,673.0000	$15.00	$145,095.00
					Total: $5,817,941.26

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
	Excavation (Suitable Material)				
48	Living Revetment (Comprised of Stone) - Armor Stone - 1-2 Ton (A1 Stone)	TON	700.0000	$10.00	$7,000.00
49	Living Revetment (Comprised of Stone) - Quarried Cobble Sized Stone 4-8 inches (R2 Stone)	TON	89,218.0000	$26.75	$2,386,581.50
50	Living Revetment (Comprised of Stone) - Quarried Stone - 6-18 inches (R1 Stone)	TON	10,540.0000	$46.00	$484,840.00
51	Living Revetment (Comprised of Stone) - Blinding Stone (D Stone)	TON	223.0000	$48.00	$10,704.00
60	North Outfall – Shoreline Excavation (Suitable Material)	CY	124.0000	$18.00	$2,232.00
61	North Outfall – Bedding Stone (D Stone)	TON	53.0000	$48.00	$2,544.00
62	North Outfall – Armor Stone – 1-2 Ton (A1 Stone)	TON	105.0000	$10.00	$1,050.00
63	South Outfall – Shoreline Excavation (Suitable Material)	CY	518.0000	$18.00	$9,324.00
64	South Outfall – Blinding Stone (D Stone)	TON	105.0000	$48.00	$5,040.00
65	South Outfall – Quarried Stone – 6-18 inches (R1 Stone)	TON	1,241.0000	$46.00	$57,086.00
66	South Outfall – Armor Stone – 1-2 Ton (A1 Stone)	TON	1,766.0000	$10.00	$17,660.00
67	South Outfall – Storm Sewer Headwall	LS	1.0000	$18,500.00	$18,500.00
68	Foredune Reinforcement – Beach Sand	CY	2,505.0000	$40.00	$100,200.00
69	Armor Stone Shoreline Stabilization - Quarried Stone - 6-18 inches (R1 Stone)	TON	408.0000	$46.00	$18,768.00
70	Armor Stone Shoreline Stabilization - Armor Stone - 1-2 Ton (A1 Stone)	TON	432.0000	$10.00	$4,320.00
71	Existing Armor Stone Re-Use	TON	750.0000	$40.00	$30,000.00
73	South Outfall – Geotextile	SY	456.0000	$5.75	$2,622.00
74	Armor Stone Shoreline Stabilization – Geotextile	SY	389.0000	$5.75	$2,236.75
					Total: $5,817,941.26

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
75	Turbidity Curtain Furnish	FT	3,500.0000	$15.00	$52,500.00
76	Turbidity Curtain Install and Maintain (paid once at each location)	FT	3,500.0000	$40.00	$140,000.00
77	Sand (supplied by City): Class 2 Sand	CYD	2,000.0000	-$8.00	-$16,000.00
78	Sand (supplied by City): Beach Sand - 2NS	CYD	2,100.0000	-$25.00	-$52,500.00
79	Sand (supplied by City): 2MS Sand	CYD	2,000.0000	-$28.00	-$56,000.00
					Total: $5,817,941.26

Bidder Signature Page

1. In compliance with the City's Invitation to Bid, Bidder hereby proposes to perform all work in accordance with the Plans and Specifications at the unit prices, as submitted herein, for the several parts of this contract.

2. The undersigned, as bidder, hereby declares the Proposal is made in good faith, without fraud or collusion with any person or persons bidding on the same contract, that he has read and examined the Advertisement, Invitation to Bid, Information for Bidders, Proposal, General Requirements, Agreement, Forms of Bonds, and Plans and Specifications as prepared by the Engineer, and understands all of the same; that he or his representative has made personal investigation at the site and has informed himself fully with regard to conditions to be met in executing this Contract, and the undersigned agrees to furnish all labor, materials, power, transportation and equipment necessary for the construction of the Project.

3. If the proposal establishes a maximum price for any of the following work items, and if you bid a price higher than that maximum price, your bid will be considered to have quoted the maximum price and your bid total will be adjusted to reflect that maximum price. If your bid is the lowest accepted bid, and if you refuse to accept the award of the contract due to the change in what you quoted as a maximum or specified price, you will forfeit your proposal guaranty.

4. Bidder acknowledges receipt of the following Addenda:

Acknowledge any addenda which have been issued by listing their number at date of issue below. If multiple addenda have been issued use the (+) to add additional fields. If an addendum has not been issued enter "N/A".

Addenda acknowledgement *

Addenda #6 11/21/2023

Signature *

John Daavettila

Date *

1/31/2024

Title *

Estimator

Contractor: *

Smith Construction, Inc

Address *

4090 US Highway 41 W, Marquette, MI 49855-9491

Phone Number *

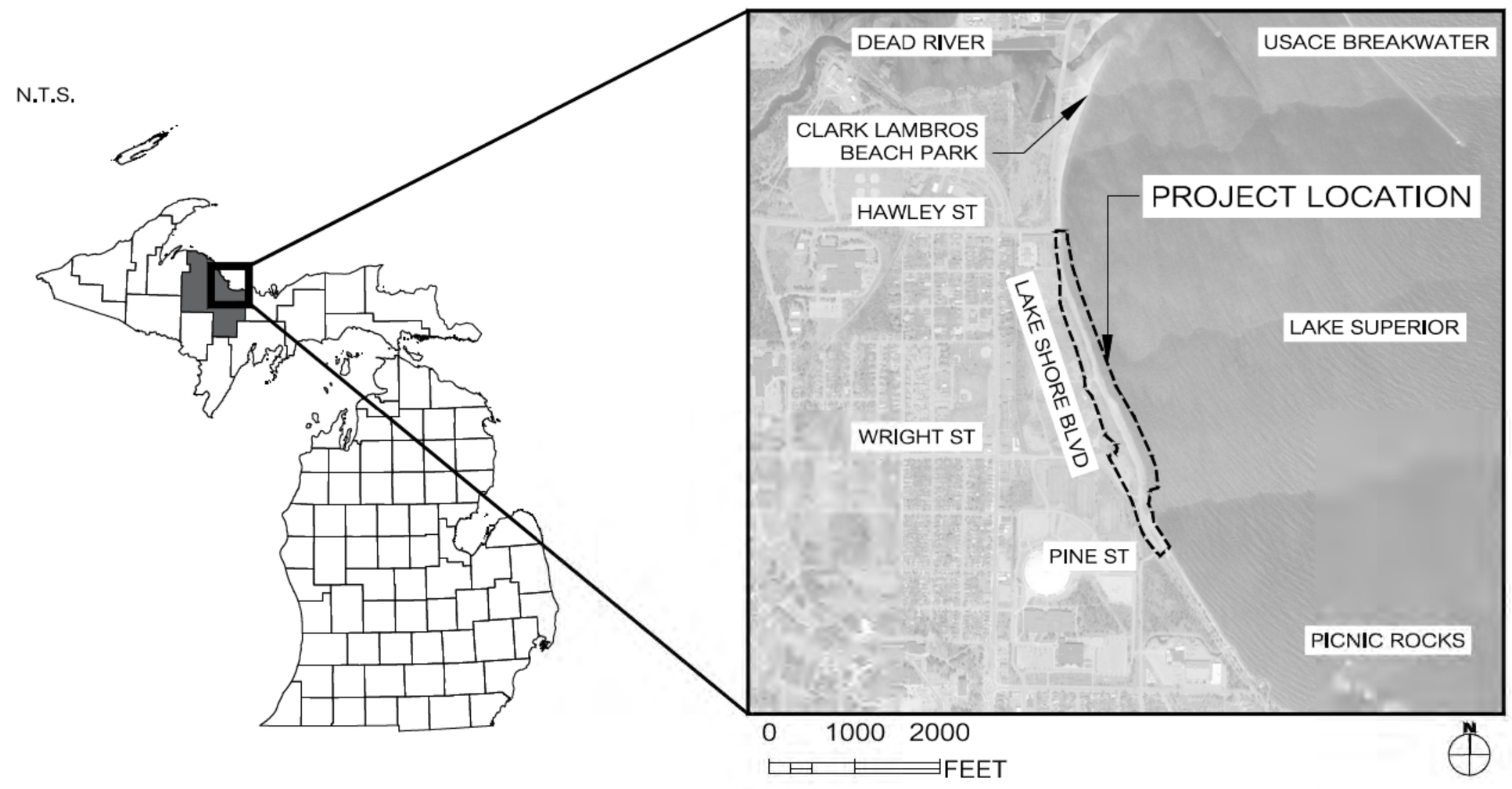
(906) 228-7285

City of Marquette, MI

Page 64 of 199

MARQUETTE, MI
LAKE SUPERIOR SHORELINE RESTORATION

BID DOCUMENTS



SHEET LIST

SHEET NO.	SHEET TITLE
G-001	TITLE SHEET
V-101	EXISTING CONDITIONS - TOPOGRAPHY & BATHYMETRY
V-102	EXISTING CONDITIONS - MAJOR FEATURES
V-103	PROJECT OVERVIEW PLAN
V-104	SURVEY CONTROL PLAN
V-105	MONITORING BENCHMARK PLAN
C-101	SITE STAGING AND ACCESS PLAN
C-102	SITE PREPARATION PLAN STA 0+00 TO 13+00
C-103	SITE PREPARATION PLAN STA 13+00 TO 29+00
C-104	SITE PREPARATION PLAN STA 29+00 TO 41+64
C-105	EXCAVATION FILL AREA 1 & 2 LAYOUT PLAN & SECTION
C-106	EXCAVATION FILL AREA 3 LAYOUT PLAN & SECTION
C-107	WATERFRONT LAYOUT PLAN STA 0+00 to 13+00
C-108	WATERFRONT LAYOUT PLAN STA 13+00 to 29+00
C-109	WATERFRONT LAYOUT PLAN STA 29+00 TO 41+64
~~C-110~~	~~POCKET BEACH LAYOUT PLAN~~
C-110	RECESS AT STA 15+41 TO STA 16+11 LAYOUT PLAN & PROFILE
C-111	RECESS AT STA 28+27 TO 28+96 LAYOUT PLAN & PROFILE
C-112	RECESS AT STA 33+75 TO 34+47 LAYOUT PLAN & PROFILE
C-113	NORTH OUTFALL PROTECTION PLAN & PROFILE
C-114	SOUTH OUTFALL PROTECTION PLAN & PROFILE
C-301	TYPICAL SECTIONS - LIVING REVETMENT
~~C-302~~	~~TYPICAL SECTIONS - POCKET BEACH & CONTROL STRUCTURES~~
C-302	LIVING REVETMENT CROSS-SECTION - STA 19+00 - 21+00
C-303	TYPICAL SECTIONS - SOUTH CONTROL STRUCTURE
C-304	DESIGN SECTIONS - FOREDUNE REINFORCEMENT
C-501	WATERFRONT DETAILS (SHEET 1 OF 2)
C-502	WATERFRONT DETAILS (SHEET 2 OF 2)
L-101	EROSION CONTROL PLAN
L-102	GRADING PLAN (SHEET 1 OF 5)
L-103	GRADING PLAN (SHEET 2 OF 5)
L-104	GRADING PLAN (SHEET 3 OF 5)
L-105	GRADING PLAN (SHEET 4 OF 5)
L-106	GRADING PLAN (SHEET 5 OF 5)
L-107	SOILS PLAN
~~L-108~~	~~LAYOUT PLAN - SOUTH~~
L-108	LANDSCAPE PLAN (SHEET 1 OF 5)
L-109	LANDSCAPE PLAN (SHEET 2 OF 5)
L-110	LANDSCAPE PLAN (SHEET 3 OF 5)
L-111	LANDSCAPE PLAN (SHEET 4 OF 5)
L-112	LANDSCAPE PLAN (SHEET 5 OF 5)
L-501	EROSION CONTROL DETAILS
L-502	SITE DETAILS
L-503	LANDSCAPE DETAILS
L-504	SEED SCHEDULES
L-505	PLANT SCHEDULES
S-101	PATH AND OVERLOOK SITE PLAN
S-102	PATH LAYOUT (SHEET 1 OF 2)
S-103	PATH LAYOUT (SHEET 2 OF 2)
S-301	TYPICAL PAVEMENT SECTIONS
S-401	PILE, PILE CAP AND CONCRETE FOUNDATION PLAN
S-402	FRAMING AND DECK PLAN VIEWS
S-403	BOARDWALK PLAN AND PROFILE (SHEET 1 OF 2)
S-404	BOARDWALK PLAN AND PROFILE (SHEET 2 OF 2)
S-405	PLATFORM PLAN AND ELEVATION
S-501	COMPOSITE BOARDWALK DETAILS (SHEET 1 OF 2)
S-502	COMPOSITE BOARDWALK DETAILS (SHEET 2 OF 2)
S-503	COMPOSITE STAIRS DETAILS
S-504	CONCRETE ABUTMENT DETAILS
S-505	FRAME CONNECTION DETAILS

STATE OF MICHIGAN — MATTHEW CLARK — ENGINEER — No. 44709 — REGISTERED PROFESSIONAL

MATTHEW CLARK, PE #44709
REFER TO SHEETS V-101 - V-105, C-101 - C-502, S-102-S-103

STATE OF MICHIGAN — RICHARD NATHANIEL REINEKE — LANDSCAPE ARCHITECT — No. 3901001625 — REGISTERED LANDSCAPE ARCHITECT

RICHARD N. REINEKE, PLA #3901001625
REFER TO SHEETS L-101 - L-505

STATE OF MICHIGAN — ALEX I. MORA — ENGINEER — No. 6201068427 — REGISTERED PROFESSIONAL

ALEX I. MORA, PE #6201068427
REFER TO SHEETS S-101, S-301 - S-505

PREPARED BY:

Baird.
W.F. BAIRD & ASSOCIATES LTD.
2924 MARKETPLACE DR
SUITE 200
MADISON, WI 53719

IN ASSOCIATION WITH:

res
RESOURCE ENVIRONMENTAL SOLUTIONS, INC.
17921 W SMITH ROAD
BRODHEAD, WI 53520

Foth
FOTH INFRASTRUCTURE & ENVIRONMENT, LLC
2121 INNOVATION COURT
P.O. BOX 5095
DE PERE, WI 54115-5095

PREPARED FOR:

CITY OF MARQUETTE, MI
300 W BARAGA AVE
MARQUETTE, MI 49855

SUPERIOR WATERSHED PARTNERSHIP
2 PETER WHITE DRIVE
MARQUETTE, MI 49855

BID DOCUMENTS

SHEET NUMBER: G-001
ISSUE NUMBER: 03
ISSUE DATE: 2023-11-21

KEY MAP



COORDINATE TABLE/NOTES

1. HORIZONTAL DATUM IS FEET RELATIVE TO THE MARQUETTE CITY DATUM. CONSULT CITY OF MARQUETTE/TRIMEDIA FOR ADDITIONAL INFORMATION.
2. VERTICAL DATUM IS IN FEET RELATIVE TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). IGLD85 ELEVATIONS CONVERSION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IS ELEVATION IGLD85 + 0.002 FEET = ELEVATION NAVD88. CONVERSION SOURCED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ONLINE VERTICAL DATUM TRANSFORMATION TOOL.
3. LOW WATER DATUM (LWD) FOR LAKE SUPERIOR IS EQUAL TO 601.1 FEET, IGLD85. ORDINARY HIGH WATER MARK IS DEFINED BY THE US ARMY CORPS OF ENGINEERS AS EQUAL TO 603.1 FEET IGLD85.
4. TOPOGRAPHIC DATA SURVEYED BY GEI CONSULTANTS, INC. BY sUAS AERIAL SURVEY, FLOWN NOVEMBER 13, 2020. BATHYMETRIC DATA SURVEYED BY RYBA MARINE CONSTRUCTION ON JUNE 1, 2020. WADING SURVEY CONDUCTED BY COLEMAN ENGINEERING COMPANY WEEK OF JULY 13, 2020.
5. AERIAL IMAGERY IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY, CITYWIDE IMAGE OBTAINED FROM GOOGLE EARTH. IMAGERY DATE: MAY 2019.
6. GROUNDWATER PLUME DEFINITION: AN APPROXIMATE SUBTERRANEAN PLAN AREA WHERE ONE OR MORE CONTAMINANTS SOMEWHERE IN THE GROUNDWATER COLUMN LIKELY EXCEED ONE OR MORE PART 201 CRITERIA.

LEGEND

EXISTING MAJOR CONTOUR — 590 —

EXISTING MINOR CONTOUR ———

GROUNDWATER PLUME



0 250 500 FEET

SCALE = 1:250

N

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21

PREPARED FOR: City of Marquette, Michigan

Superior Watershed Partnership and Land Conservancy

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

EXISTING CONDITIONS - TOPOGRAPHY & BATHYMETRY

ISSUE NUMBER: 1

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

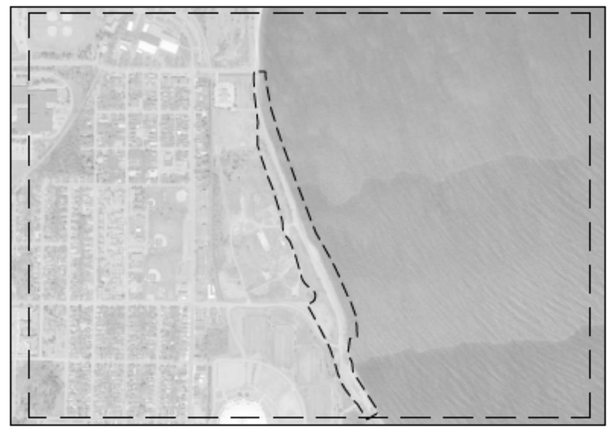
SHEET NUMBER: V-101

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\B-DESIGN\02_PRELIMINARY DESIGN\V-101.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



COORDINATE TABLE/NOTES

1. UTILITIES LINEWORK BASED ON PHASE 1 AS-BUILT DRAWINGS DATED 5/2/2020 PROVIDED BY THE CITY OF MARQUETTE. REFER TO SHEETS C-102, C-103, AND C-104 FOR DETAILED UTILITY INFORMATION.
2. THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" AT 1-800-482-7171, 72 HOURS (3 WORKING DAYS) IN ADVANCE OF ANY EXCAVATION OPERATIONS.

LEGEND

- GROUNDWATER PLUME
- EXISTING WETLAND
- ABANDONED ROADWAY & BIKE TRAIL
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE

HAWLEY ST

PRESQUE ISLE AVE

WRIGHT ST

PINE ST

CONSTRUCTION LIMITS

ABANDONED 12" SANITARY FORCEMAIN

LAKE SUPERIOR

ACTIVE 16" SANITARY FORCEMAIN

PARKING LOTS

EXISTING CLIFFS-DOW GROUNDWATER PLUME

MULTI-USE TRAIL

ABANDONED LAKE SHORE BLVD

STORMWATER DETENTION POND

LAKE SHORE BLVD

0 250 500 FEET

SCALE = 1:250

N

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	--	2022-02-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: CITY OF MARQUETTE, MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

EXISTING CONDITIONS - MAJOR FEATURES

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

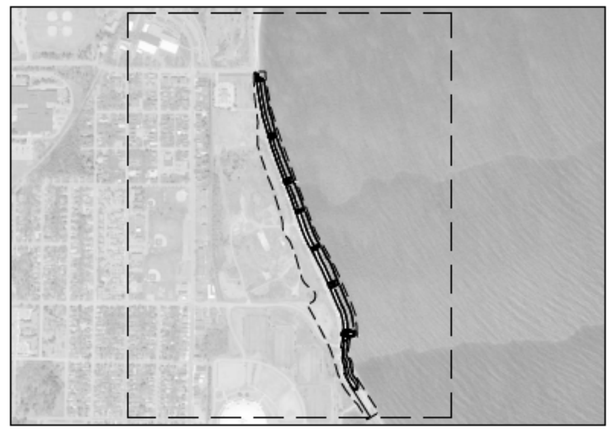
SHEET NUMBER: V-102

PROJECT NUMBER: 13290,101

P:\13290_101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\9-DESIGN\02_PRELIMINARY DESIGN\V-102.DWG

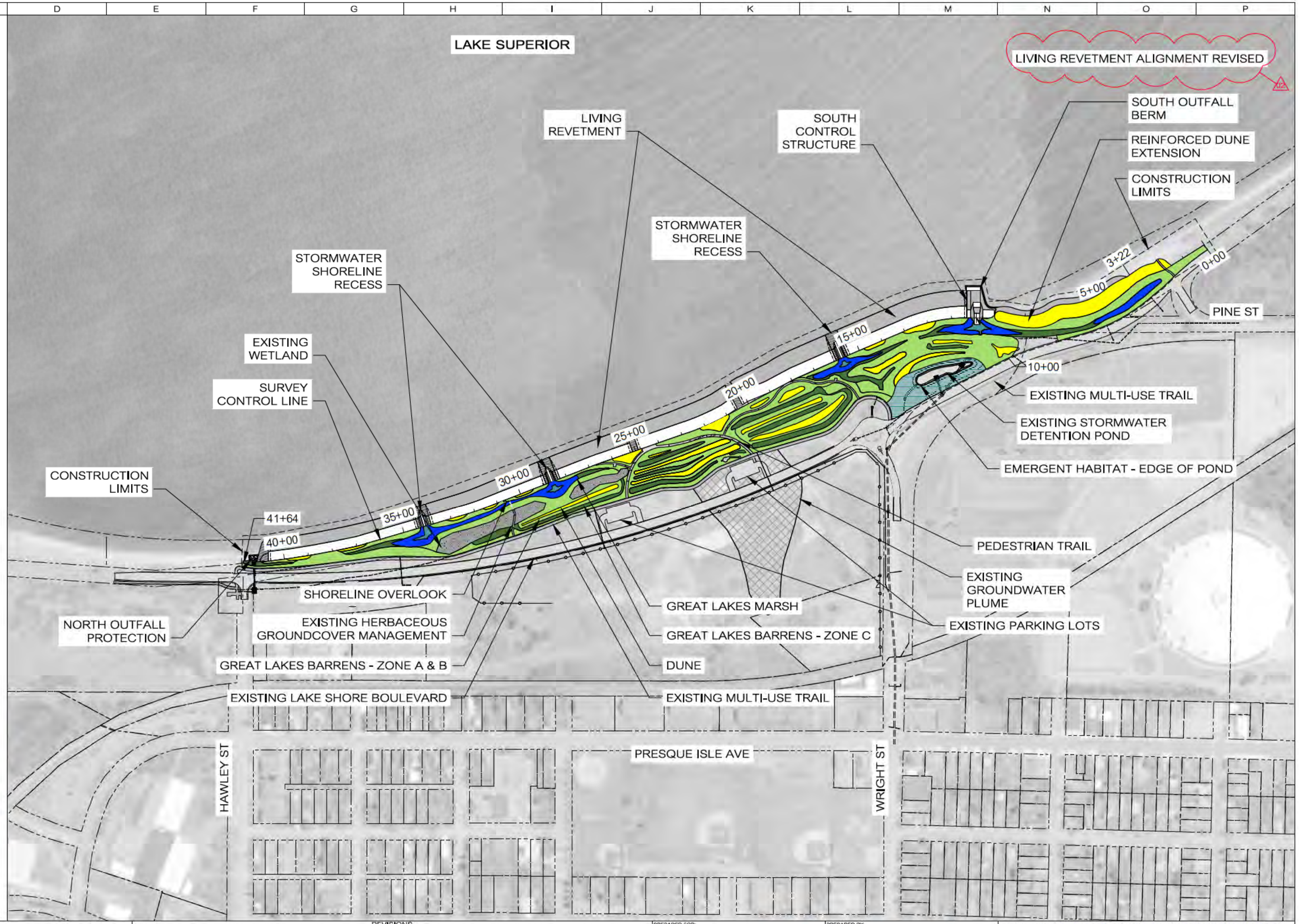
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



COORDINATE TABLE/NOTES

1. UTILITIES LINEWORK BASED ON PHASE 1 AS-BUILT DRAWINGS PROVIDED BY THE CITY OF MARQUETTE. REFER TO SHEETS C-102, C-103, AND C-104 FOR DETAILED UTILITY INFORMATION.
2. GROUNDWATER PLUME DEFINITION: AN APPROXIMATE PLAN AREA WHERE ONE OR MORE CONTAMINANTS SOMEWHERE IN THE GROUNDWATER COLUMN LIKELY EXCEED ONE OR MORE PART 201 CRITERIA.
3. HORIZONTAL DATUM IS IN FEET RELATIVE TO THE MARQUETTE CITY DATUM.
4. VERTICAL DATUM IS IN FEET RELATIVE TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). IGLD85 ELEVATIONS CONVERSION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IS ELEVATION IGLD85 + 0.002 FEET = ELEVATION NAVD88. CONVERSION SOURCED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ONLINE VERTICAL DATUM TRANSFORMATION TOOL.



LEGEND

GROUNDWATER PLUME		DUNE - RIDGES, OPEN DUNE	
EXISTING WETLAND		GREAT LAKES BARRENS - ZONES A & B	
EXISTING WATER MAIN		GREAT LAKES BARRENS - ZONES C	
EXISTING SANITARY SEWER		GREAT LAKES MARSH	
EXISTING STORM SEWER		EMERGENT HABITAT	
EXISTING PROPERTY LINE		EXISTING HERBACEOUS GROUNDCOVER MANAGEMENT	

0 200 400 FEET

SCALE = 1:200

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY		(B) DESIGN		(C) PERMIT		(D) TENDER		(E) CONSTRUCTION		(F) RECORD					
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	--	2022-02-21								
D	2	REVISED LAYOUT	MM	MJC	MJC	--	2023-11-01								

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

PROJECT OVERVIEW PLAN

ISSUE NUMBER: 2

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: V-103

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

P:\13290_101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADDWORKING\DESIGN\02_PRELIMINARY DESIGN\V-103.DWG

KEY MAP



COORDINATE TABLE/NOTES

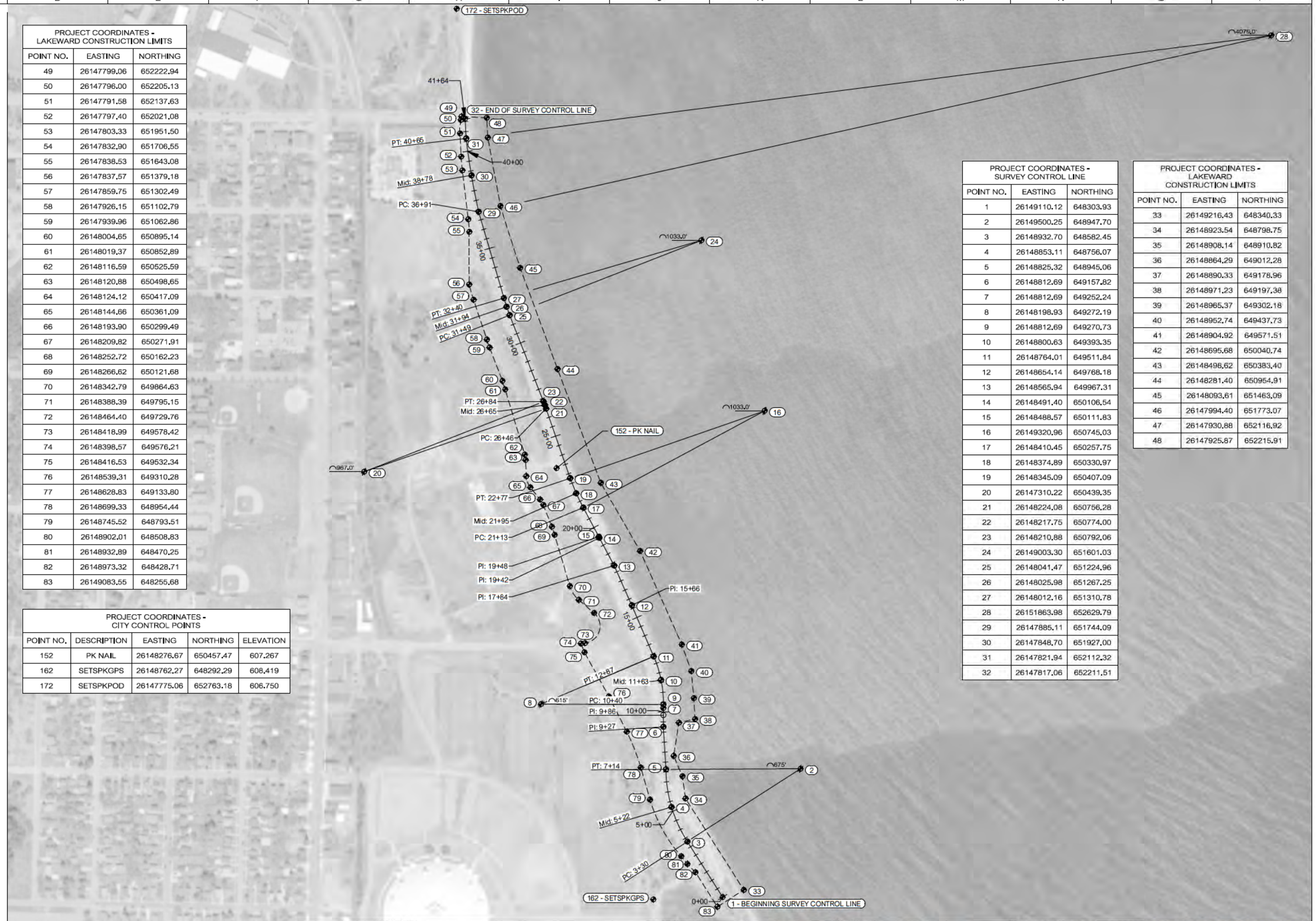
1. HORIZONTAL DATUM IS IN FEET RELATIVE TO THE MARQUETTE CITY DATUM.
2. VERTICAL DATUM IS IN FEET RELATIVE TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). IGLD85 ELEVATIONS CONVERSION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IS ELEVATION IGLD85 + 0.002 FEET = ELEVATION NAVD88. CONVERSION SOURCED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ONLINE VERTICAL DATUM TRANSFORMATION TOOL.
3. TO CALIBRATE SURVEY EQUIPMENT TO CITY OF MARQUETTE DATUM, FOLLOW THESE STEPS:
   - 3.1. CALIBRATE HORIZONTAL AND VERTICAL TO POINT 172 SPIKE
   - 3.2. CALIBRATE SECOND HORIZONTAL ONLY TO POINT 162 SPIKE
   - 3.3. STAKEOUT CHECK SHOT ON 152 PK NAIL
   - 3.4. NORTHING AND EASTING ARE ASSUMED GROUND COORDINATES
   - 3.5. ELEVATION IS BASED OFF NGS BENCHMARK PID RK0423, IGLD85 ADJUSTED ELEVATION = 610.09 FEET
   - 3.6. SET NEW CONTROL POINTS IF THE ABOVE POINTS MAY BE AT RISK OF BEING DISTURBED
   - 3.7. ANY SURVEY CALIBRATION QUESTIONS, CALL SVEN W. HOLMQUIST, CITY OF MARQUETTE STAFF SURVEYOR, AT 906-225-8989.

LEGEND

PROJECT COORDINATE (79)

PROJECT COORDINATES - LAKEWARD CONSTRUCTION LIMITS		
POINT NO.	EASTING	NORTHING
49	26147799.06	652222.94
50	26147796.00	652205.13
51	26147791.58	652137.63
52	26147797.40	652021.08
53	26147803.33	651951.50
54	26147832.90	651706.55
55	26147838.53	651643.08
56	26147837.57	651379.18
57	26147859.75	651302.49
58	26147926.15	651102.79
59	26147939.96	651062.86
60	26148004.65	650895.14
61	26148019.37	650852.89
62	26148116.59	650525.59
63	26148120.88	650498.65
64	26148124.12	650417.09
65	26148144.66	650361.09
66	26148193.90	650299.49
67	26148209.82	650271.91
68	26148252.72	650162.23
69	26148266.62	650121.68
70	26148342.79	649864.63
71	26148388.39	649795.15
72	26148464.40	649729.76
73	26148418.99	649578.42
74	26148398.57	649576.21
75	26148416.53	649532.34
76	26148539.31	649310.28
77	26148628.83	649133.80
78	26148699.33	648954.44
79	26148745.52	648793.51
80	26148902.01	648508.83
81	26148932.89	648470.25
82	26148973.32	648428.71
83	26149083.55	648255.68

PROJECT COORDINATES - CITY CONTROL POINTS				
POINT NO.	DESCRIPTION	EASTING	NORTHING	ELEVATION
152	PK NAIL	26148276.67	650457.47	607.267
162	SETSPKGPS	26148762.27	648292.29	608.419
172	SETSPKPOD	26147775.06	652763.18	606.750



PROJECT COORDINATES - SURVEY CONTROL LINE		
POINT NO.	EASTING	NORTHING
1	26149110.12	648303.93
2	26149500.25	648947.70
3	26148932.70	648582.45
4	26148853.11	648756.07
5	26148825.32	648945.06
6	26148812.69	649157.82
7	26148812.69	649252.24
8	26148198.93	649272.19
9	26148812.69	649270.73
10	26148800.63	649393.35
11	26148764.01	649511.84
12	26148654.14	649768.18
13	26148565.94	649967.31
14	26148491.40	650106.54
15	26148488.57	650111.83
16	26149320.96	650745.03
17	26148410.45	650257.75
18	26148374.89	650330.97
19	26148345.09	650407.09
20	26147310.22	650439.35
21	26148224.08	650756.28
22	26148217.75	650774.00
23	26148210.88	650792.06
24	26149003.30	651601.03
25	26148041.47	651224.96
26	26148025.98	651267.25
27	26148012.16	651310.78
28	26151863.98	652629.79
29	26147885.11	651744.09
30	26147848.70	651927.00
31	26147821.94	652112.32
32	26147817.06	652211.51

PROJECT COORDINATES - LAKEWARD CONSTRUCTION LIMITS		
POINT NO.	EASTING	NORTHING
33	26149216.43	648340.33
34	26148923.54	648798.75
35	26148908.14	648910.82
36	26148864.29	649012.28
37	26148890.33	649178.96
38	26148971.23	649197.38
39	26148965.37	649302.18
40	26148952.74	649437.73
41	26148904.92	649571.51
42	26148695.68	650040.74
43	26148498.62	650383.40
44	26148281.40	650954.91
45	26148093.61	651463.09
46	26147994.40	651773.07
47	26147930.88	652116.92
48	26147925.87	652215.91

0 250 500 FEET

SCALE = 1:250

N

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

SURVEY CONTROL PLAN

ISSUE NUMBER: 1

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: V-104

P:\13290_101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\09-DESIGN\02_PRELIMINARY DESIGN\V-104.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



PROJECT COORDINATES - MONITORING BENCHMARKS		
POINT NO.	EASTING	NORTHING
M1	26149687.69	647487.77
M2	26148859.64	648735.27
M3	26148812.68	649231.15
M4	26148680.19	649707.41
M5	26148463.95	650157.82
M6	26148271.92	650618.23
M7	26148095.81	651086.11
M8	26147938.96	651560.44
M9	26147830.13	652047.68
M10	26147922.07	653208.54

COORDINATE TABLE/NOTES

1. HORIZONTAL DATUM IS IN FEET RELATIVE TO THE MARQUETTE CITY DATUM.
2. VERTICAL DATUM IS IN FEET RELATIVE TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). IGLD85 ELEVATIONS CONVERSION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IS ELEVATION IGLD85 + 0.002 FEET = ELEVATION NAVD88. CONVERSION SOURCED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ONLINE VERTICAL DATUM TRANSFORMATION TOOL.
3. TO CALIBRATE SURVEY EQUIPMENT TO CITY OF MARQUETTE DATUM, REFER TO SHEET V-104.
4. CONTRACTOR SHALL INSTALL BENCHMARKS IN ACCORDANCE WITH NATIONAL COASTAL RESILIENCE FUND MONITORING GUIDANCE AS OUTLINED IN SPECIFICATIONS.
5. FOR BENCHMARKS OUTSIDE PROJECT FOOTPRINT, CONTRACTOR SHALL OBTAIN NECESSARY PERMISSIONS FROM ADJOINING PROPERTY OWNERS.
6. CONTRACTOR SHALL NOT PLACE BENCHMARKS IN CONFLICT WITH EXISTING OR PROPOSED UTILITIES, STRUCTURES, TREES, OR ANY OTHER SITE FEATURES. IF BENCHMARK LOCATION NOTED HEREIN IS FOUND TO BE IN CONFLICT WITH ANY OF THE ABOVE, THE CONTRACTOR SHALL PROPOSE A NEW LOCATION NEARBY FOR APPROVAL BY ENGINEER PRIOR TO INSTALLATION.

LEGEND

MONITORING BENCHMARK (79)



0 500 1000 FEET

SCALE = 1:500

N

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

MONITORING BENCHMARK PLAN

ISSUE NUMBER: 1

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

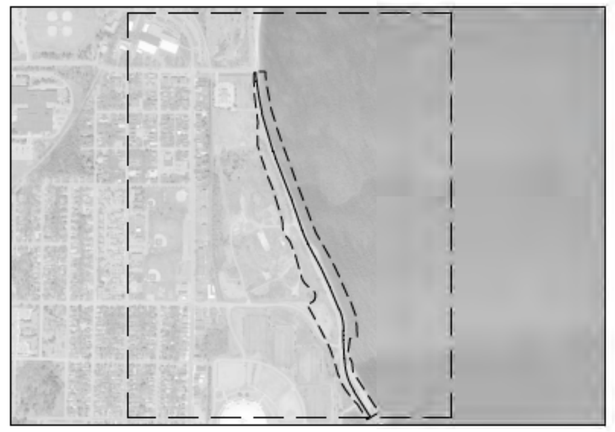
SHEET NUMBER: V-105

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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



COORDINATE TABLE/NOTES

1. HORIZONTAL DATUM IS FEET RELATIVE TO THE MARQUETTE CITY DATUM. CONSULT CITY OF MARQUETTE/TRIMEDIA FOR ADDITIONAL INFORMATION.
2. GROUNDWATER PLUME DEFINITION: AN APPROXIMATE SUBTERRANEAN PLAN AREA WHERE ONE OR MORE CONTAMINANTS SOMEWHERE IN THE GROUNDWATER COLUMN LIKELY EXCEED ONE OR MORE PART 201 CRITERIA. CONSULT CITY OF MARQUETTE/TRIMEDIA FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL NOT STAGE MATERIAL OR EQUIPEMENT ABOVE GROUNDWATER PLUME.
4. CONTRACTOR SHALL ACCESS THE SITE ONLY AT LOCATIONS SHOWN HEREON. CONTRACTOR SHALL INSTALL ACCESS APPROACH AS APPROPRIATE TO CONNECT EXISTING ROADWAY WITH CONTRACTOR ACCESS ROUTE.
5. CONTRACTOR SHALL AVOID MOVING EQUIPMENT OR MATERIALS ALONG LAKE SHORE BOULEVARD BETWEEN HAWLEY ST AND WRIGHT ST, OR ON THE MULTIUSE TRAIL. CONTRACTOR SHALL AVOID MOVING MATERIALS ALONG LAKE SHORE BOULEVARD BETWEEN WRIGHT STREET AND PINE STREET. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING ROADS OR PATHS.
6. CONTRACTOR SHALL AVOID SOIL COMPACTION AND SHALL USE ABANDONED ROADWAY AS MUCH AS PRACTICABLE PRIOR TO ITS DEMOLITION.
7. CONTRACTOR SHALL INSTALL NECESSARY EROSION CONTROLS AROUND STAGING AREA. REFER TO LANDSCAPE SHEETS.
8. THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" AT 1-800-482-7171, 72 HOURS (3 WORKING DAYS) IN ADVANCE OF ANY EXCAVATION OPERATIONS.
9. APPROPRIATE ADVANCED WARNING SIGNS SHALL BE PLACED ALONG THE ROADWAY AND PEDESTRIAN PATHWAY AT EACH CONSTRUCTION ENTRANCE PER THE REQUIREMENTS OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (AUGUST 2022 REVISION).

LEGEND

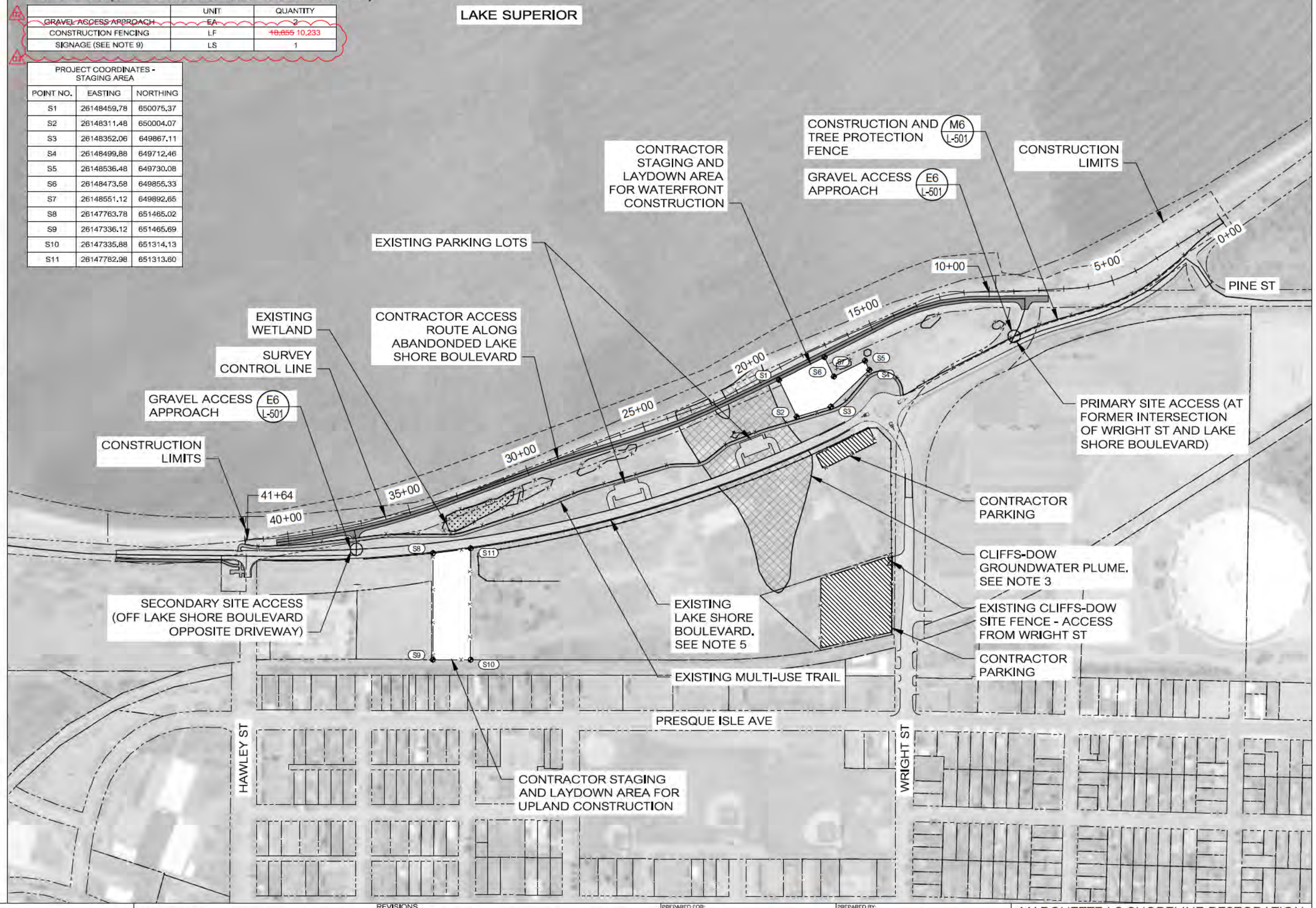
- CLIFFS-DOW GROUNDWATER PLUME
- STAGING & LAYDOWN AREA
- CONTRACTOR VEHICLE AND EQUIPMENT PARKING
- ABANDONED ROADWAY
- EXISTING PROPERTY LINE
- PROJECT COORDINATE (79)
- PROPOSED CONSTRUCTION FENCE
- EXISTING CLIFFS-DOW SITE FENCE
- EXISTING WETLAND

PAY ITEMS (SITE STAGING AND ACCESS SHEET)

	UNIT	QUANTITY
~~GRAVEL ACCESS APPROACH~~	~~EA~~	~~2~~
CONSTRUCTION FENCING	LF	~~18,855~~ 10,233
SIGNAGE (SEE NOTE 9)	LS	1

PROJECT COORDINATES - STAGING AREA

POINT NO.	EASTING	NORTHING
S1	26148459.78	650075.37
S2	26148311.48	650004.07
S3	26148352.06	649867.11
S4	26148499.88	649712.46
S5	26148536.48	649730.08
S6	26148473.58	649855.33
S7	26148551.12	649892.65
S8	26147763.78	651465.02
S9	26147336.12	651465.69
S10	26147335.88	651314.13
S11	26147782.98	651313.60



0 200 400 FEET

SCALE = 1:200

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JID	MJC	--	2022-02-21
D	2	REVISED PAY ITEM & NOTE FOR S2,	PST	JID	PST	--	2022-04-05
D	3	REVISED PAY ITEM & NOTE 9	NM	JID	MJC	--	2023-11-21

PREPARED FOR: MARQUETTE MICHIGAN

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

MARQUETTE LS SHORELINE RESTORATION

SITE STAGING AND ACCESS PLAN

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

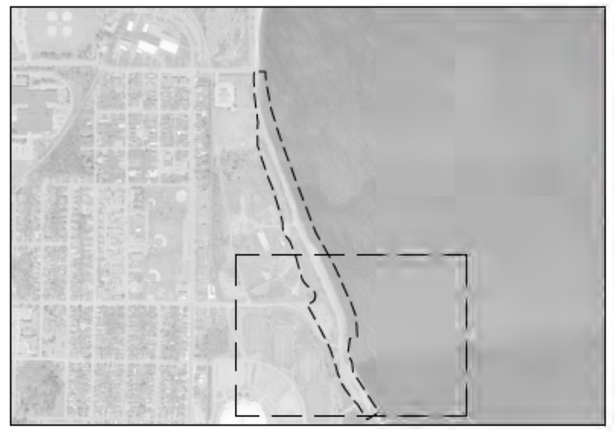
SHEET NUMBER: C-101

PLOT PAPER SIZE: ANSI D = 22,00 X 34,00 INCHES

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\DESIGN_PRELIMINARY DESIGN\C-101.DWG

City of Marquette, MI

KEY MAP



COORDINATE TABLE/NOTES

1. PROTECT EXISTING MONITORING WELLS OUTSIDE WATERFRONT CONSTRUCTION FOOTPRINT WITH CONSTRUCTION FENCING AND DO NOT DISTURB DURING CONSTRUCTION.
2. EXISTING MONITORING WELLS WITHIN WATERFRONT CONSTRUCTION FOOTPRINT TO BE PROTECTED AND EXTENDED BY OTHERS.
3. PROTECT EXISTING TREES AND ROOTS, AS IDENTIFIED BY THE ENGINEER, WITH FENCING AND DO NOT DISTURB DURING CONSTRUCTION.
4. FOR CONSTRUCTION LIMIT AND SURVEY CONTROL LINE COORDINATES, REFER TO SHEET V-104.
5. LOCATION OF MONITORING WELLS SHOWN ARE BASED ON DATA PROVIDED BY TRIMEDIA. FILES DATED NOVEMBER 24, 2020.
6. THERE ARE ADDITIONAL MONITORING WELLS OUTSIDE THE CONSTRUCTION LIMITS WHICH ARE NOT SHOWN ON THESE PLANS.
7. THERE ARE MISCELLANEOUS OBJECTS ALONG THE SHORELINE THAT WILL NEED TO BE REMOVED AT THE DIRECTION OF THE ENGINEER.
8. TREE STUMPS ARE PRESENT FROM CUTTING THAT OCCURRED PRIOR TO CONSTRUCTION. ALL EXISTING TREE STUMPS SHALL BE CUT FLUSH WITH THE EXISTING GROUND.
9. SUITABLE MATERIAL EXCAVATED TO CONSTRUCT THE LIVING REVETMENT CAN, WHERE POSSIBLE, BE PLACED 1) IN THE VOIDS CREATED BY PAVEMENT REMOVAL OF THE FORMER LAKE SHORE BOULEVARD AND BIKE PATH, AND 2) IN THE AREAS MARKED "EXCAVATION FILL AREA" BETWEEN THE CURRENT LAKE SHORE BOULEVARD AND MULTIUSE TRAIL.
10. THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" AT 1-800-482-7171, 72 HOURS (3 WORKING DAYS) IN ADVANCE OF ANY EXCAVATION OPERATIONS.

LEGEND

- EXISTING PROPERTY LINE
- EXCAVATION FILL AREA
- CONSTRUCTION FENCE
- MONITORING WELL
- TREES
- ARMOR STONE SALVAGE/ EXCAVATION
- ASPHALT REMOVAL

PAY ITEMS (SITE PREPARATION SHEETS)

	UNIT	QUANTITY
~~DEMOLITION - ASPHALT ROADWAY~~	LF	~~3,200~~
DEMOLITION - ASPHALT BIKE PATH	LF	2,875
~~EXCAVATION - SUITABLE MATERIAL~~	~~CY~~	~~1,375~~
EXCAVATION - UNSUITABLE MAT'L (NON-CONTAMINATED)	CY	1,724
EXCAVATION - UNSUITABLE MAT'L (CONTAMINATED)	CY	~~912~~ 987
EXISTING ARMOR STONE RE-USE	TON	~~1000~~

EXCAVATION FILL AREA 3
REFER TO SHEET C-106

EXISTING 8" CL 52 D.I.
WATER MAIN

EXISTING 12" R.C.P. STORM SEWER

EXISTING DRAINAGE DITCH

EXISTING 43" X 68" R.C.P STORM SEWER

CONSTRUCTION AND TREE PROTECTION FENCE (M6 / L-501)

EXISTING 43" X 68" R.C.P STORM SEWER

TREES
SEE NOTE 3

MANHOLE

EXISTING 12" R.C.P. STORM SEWER

12" ABANDONED SANITARY FORCEMAIN

EXISTING 16" D.I. SANITARY FORCEMAIN

EXISTING 12" R.C.P. STORM SEWER

19+00 18+00 17+00 16+00 15+00 14+00 13+00 12+00 11+00 10+00 9+00 8+00 7+62 7+00 6+00 5+00 4+00 3+00 2+00 1+00 0+00

SURVEY CONTROL LINE

CONSTRUCTION LIMITS

REFER TO SHEET C-103

SALVAGE AND SORT EXISTING ARMOR STONE AS SELECTED BY THE ENGINEER. REFER TO SPECIFICATIONS CHAPTER 6.02

FORCEMAIN CROSS-TIE (ASSUME TO BE LIVE)

STA 7+62 TO 40+48
DEMOLISH EXISTING ROADWAY PAVEMENT HARD SURFACING AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE. BETWEEN EXISTING REVETMENT AND ROADWAY, REMOVE TOP 6 IN. OF MATERIAL FROM SURFACE AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE.

02

REMOVE 73' OF EXISTING 43" X 68" R.C.P STORM SEWER.
END SECTION SHALL BE 43" X 68", 4 ON 1, 12 GAUGE GALVANIZED STEEL BY BRIDGE SUPPLY CO., SANDUSKY, MI, OR APPROVED EQUAL.

2

REMOVE EXISTING BIKE PATH PAVEMENT HARD SURFACING AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE

EXISTING ARMOR STONE REINFORCEMENT TO BE LEVELED OUT AS PART OF FOREDUNE REINFORCEMENT

162 - SETSPKGPS

0 100 200 FEET
SCALE = 1:100

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21
D	2	REVISED PAY ITEM & NOTE FOR S.S.	PST	JED	PST	--	2022-04-05
D	3	REVISED PAY ITEM	MM	JED	MJC	--	2023-11-21

PREPARED FOR: City of Marquette Michigan — Superior Watershed Partnership and Land Conservancy

PREPARED BY: Baird. IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

SITE PREPARATION PLAN STA 0+00 TO 13+00

ISSUE NUMBER: | ISSUE DATE: 2022-02-21 | SHEET NUMBER: C-102

PROJECT NUMBER: 13290.101

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\9-DESIGN\02_PRELIMINARY DESIGN\C-102.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



COORDINATE TABLE/NOTES

1. PROTECT EXISTING MONITORING WELLS OUTSIDE WATERFRONT CONSTRUCTION FOOTPRINT WITH CONSTRUCTION FENCING AND DO NOT DISTURB DURING CONSTRUCTION.
2. EXISTING MONITORING WELLS WITHIN WATERFRONT CONSTRUCTION FOOTPRINT TO BE PROTECTED AND EXTENDED BY OTHERS.
3. PROTECT EXISTING TREES AND ROOTS, AS IDENTIFIED BY THE ENGINEER, WITH FENCING AND DO NOT DISTURB DURING CONSTRUCTION.
4. FOR CONSTRUCTION LIMIT AND SURVEY CONTROL LINE COORDINATES, REFER TO SHEET V-104.
5. LOCATION OF MONITORING WELLS SHOWN ARE BASED ON DATA PROVIDED BY TRIMEDIA. FILES DATED NOVEMBER 24, 2020.
6. THERE ARE ADDITIONAL MONITORING WELLS OUTSIDE THE CONSTRUCTION LIMITS WHICH ARE NOT SHOWN ON THESE PLANS.
7. THERE ARE MISCELLANEOUS OBJECTS ALONG THE SHORELINE THAT WILL NEED TO BE REMOVED AT THE DIRECTION OF THE ENGINEER.
8. TREE STUMPS ARE PRESENT FROM CUTTING THAT OCCURRED PRIOR TO CONSTRUCTION. ALL EXISTING TREE STUMPS SHALL BE CUT FLUSH WITH THE EXISTING GROUND.
9. SUITABLE MATERIAL EXCAVATED TO CONSTRUCT THE LIVING REVETMENT CAN, WHERE POSSIBLE, BE PLACED 1) IN THE VOIDS CREATED BY PAVEMENT REMOVAL OF THE FORMER LAKE SHORE BOULEVARD AND BIKE PATH, AND 2) IN THE AREAS MARKED "EXCAVATION FILL AREA" BETWEEN THE CURRENT LAKE SHORE BOULEVARD AND MULTIUSE TRAIL.
10. THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" AT 1-800-482-7171, 72 HOURS (3 WORKING DAYS) IN ADVANCE OF ANY EXCAVATION OPERATIONS.

LEGEND

EXISTING PROPERTY LINE

EXCAVATION FILL AREA

CONSTRUCTION FENCE

MONITORING WELL

TREES

ARMOR STONE SALVAGE/ EXCAVATION

ASPHALT REMOVAL

PAY ITEMS (SITE PREPARATION SHEETS)

	UNIT	QUANTITY
~~DEMOLITION - ASPHALT ROADWAY~~	LF	~~3,200~~
DEMOLITION - ASPHALT BIKE PATH	LF	2,875
~~EXCAVATION - SUITABLE MATERIAL~~	~~CY~~	~~1,375~~
EXCAVATION - UNSUITABLE MAT'L (NON-CONTAMINATED)	CY	1,724
EXCAVATION - UNSUITABLE MAT'L (CONTAMINATED)	CY	~~912~~ 987
EXISTING ARMOR STONE RE-USE	TON	~~100~~

02 03

EXISTING CLIFFS-DOW SITE FENCE

MONITORING WELL SEE NOTE 1

EXISTING 12" R.C.P. STORM SEWER

EXCAVATION FILL AREA 1 & 2 REFER TO SHEET C-105

CONSTRUCTION AND TREE PROTECTION FENCE M6 L-501

MONITORING WELL SEE NOTE 1

ANGELI PARK

MONITORING WELL SEE NOTE 1

EXISTING 12" R.C.P. STORM SEWER

EXCAVATION FILL AREA 3 REFER TO SHEET C-106

MONITORING WELL SEE NOTE 1

CONTRACTOR PARKING

CONSTRUCTION LIMITS

REFER TO SHEET C-104

TREES SEE NOTE 3

REMOVE EXISTING BIKE PATH PAVEMENT HARD SURFACING AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE

SALVAGE AND SORT EXISTING ARMOR STONE AS SELECTED BY THE ENGINEER. REFER TO SPECIFICATIONS CHAPTER 6.02 16

STA 7+62 TO 40+48
DEMOLISH EXISTING ROADWAY PAVEMENT HARD SURFACING AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE.
BETWEEN EXISTING REVETMENT AND ROADWAY, REMOVE TOP 6 IN. OF MATERIAL FROM SURFACE AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE.

PROPOSED MONITORING WELL EXTENSION SEE NOTE 2

REFER TO SHEET C-102

TREES SEE NOTE 3

SURVEY CONTROL LINE

EXISTING 12" R.C.P. STORM SEWER

152 - PK NAIL

0 100 200 FEET

SCALE = 1:100

BID DOCUMENTS

REVISIONS

(PH)	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21
D	2	REVISED PAY ITEM	PST	JED	PST	--	2022-04-05
D	3	REVISED PAY ITEM	MM	JED	MJC	--	2023-11-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAKE CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

SITE PREPARATION PLAN STA 13+00 TO 29+00

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: C-103

P:\13290_101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\06_CADD\WORKING\B-DESIGN\02_PRELIMINARY DESIGN\C-103.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



COORDINATE TABLE/NOTES

1. PROTECT EXISTING MONITORING WELLS OUTSIDE WATERFRONT CONSTRUCTION FOOTPRINT WITH PROTECTIVE FENCING AND DO NOT DISTURB DURING CONSTRUCTION.
2. EXISTING MONITORING WELLS WITHIN WATERFRONT CONSTRUCTION FOOTPRINT TO BE PROTECTED AND EXTENDED BY OTHERS.
3. PROTECT EXISTING TREES AND ROOTS, AS IDENTIFIED BY THE ENGINEER, WITH FENCING AND DO NOT DISTURB DURING CONSTRUCTION.
4. FOR CONSTRUCTION LIMIT AND SURVEY CONTROL LINE COORDINATES, REFER TO SHEET V-104.
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8. TREE STUMPS ARE PRESENT FROM CUTTING THAT OCCURRED PRIOR TO CONSTRUCTION. ALL EXISTING TREE STUMPS SHALL BE CUT FLUSH WITH THE EXISTING GROUND.
9. SUITABLE MATERIAL EXCAVATED TO CONSTRUCT THE LIVING REVETMENT CAN, WHERE POSSIBLE, BE PLACED 1) IN THE VOIDS CREATED BY PAVEMENT REMOVAL OF THE FORMER LAKE SHORE BOULEVARD AND BIKE PATH, AND 2) IN THE AREAS MARKED "EXCAVATION FILL AREA" BETWEEN THE CURRENT LAKE SHORE BOULEVARD AND MULTIUSE TRAIL. MAINTAIN CHANNEL AT EXISTING GRADE BETWEEN EXISTING STORM SEWERS AND CULVERTS.
10. THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" AT 1-800-482-7171, 72 HOURS (3 WORKING DAYS) IN ADVANCE OF ANY EXCAVATION OPERATIONS.

LEGEND

EXISTING PROPERTY LINE

EXCAVATION FILL AREA

CONSTRUCTION FENCE

MONITORING WELL

TREES

ARMOR STONE SALVAGE/ EXCAVATION

ASPHALT REMOVAL

PAY ITEMS (SITE PREPARATION SHEETS)

	UNIT	QUANTITY
~~DEMOLITION - ASPHALT ROADWAY~~	LF	~~3,200~~
DEMOLITION - ASPHALT BIKE PATH	LF	2,875
~~EXCAVATION - SUITABLE MATERIAL~~	~~CY~~	~~1,375~~
EXCAVATION - UNSUITABLE MAT'L (NON-CONTAMINATED)	CY	1,724
EXCAVATION - UNSUITABLE MAT'L (CONTAMINATED)	CY	~~912~~ 987
EXISTING ARMOR STONE RE-USE	TON	~~100~~

02

03

EXSITING 38" BY 60" RCP CL IV STORM SEWER

CONSTRUCTION AND TREE PROTECTION FENCE (M6 / L-501)

SURVEY CONTROL LINE

REMOVE EXISTING BIKE PATH PAVEMENT HARD SURFACING AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE

EXISTING 12" R.C.P. STORM SEWER

EXISTING 8" CL 52 D.I. WATER MAIN

CONTRACTOR STAGING AND LAYDOWN AREA FOR UPLAND CONSTRUCTION

MONITORING WELL SEE NOTE 1

EXCAVATION FILL AREA 1 REFER TO SHEET C-105

172 - SETSPKPOD

41+64

41+00

40+48

40+00

39+00

38+00

37+00

36+00

35+00

34+00

33+00

32+00

31+00

30+00

CONSTRUCTION LIMITS

STA 7+62 TO 40+48
DEMOLISH EXISTING ROADWAY PAVEMENT HARD SURFACING AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE. BETWEEN EXISTING REVETMENT AND ROADWAY, EXCAVATE TOP 6 IN. OF MATERIAL FROM SURFACE AND RE-USE SUITABLE MATERIAL ON-SITE, OTHERWISE DISPOSE OFF-SITE.

SALVAGE AND SORT EXISTING ARMOR STONE AS SELECTED BY THE ENGINEER. REFER TO SPECIFICATIONS CHAPTER 6.02

REFER TO SHEET C-103

0 100 200 FEET

SCALE = 1:100

N

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY			(B) DESIGN			(C) PERMIT			(D) TENDER		(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD			
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21											
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D	3	REVISED PAY ITEM	MM	JED	MJC	--	2023-11-21											

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

SITE PREPARATION PLAN STA 29+00 TO 41+64

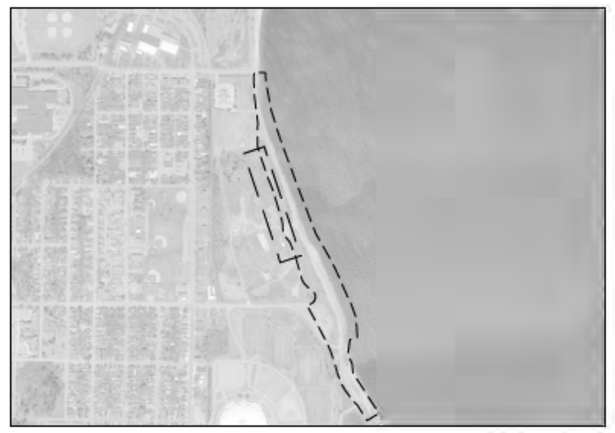
ISSUE NUMBER: | ISSUE DATE: 2022-02-21 | SHEET NUMBER: C-104

PROJECT NUMBER: 13290.101

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADDWORKING\B-DESIGN\02_PRELIMINARY DESIGN\C-104.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



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LEGEND

EXISTING PROPERTY LINE

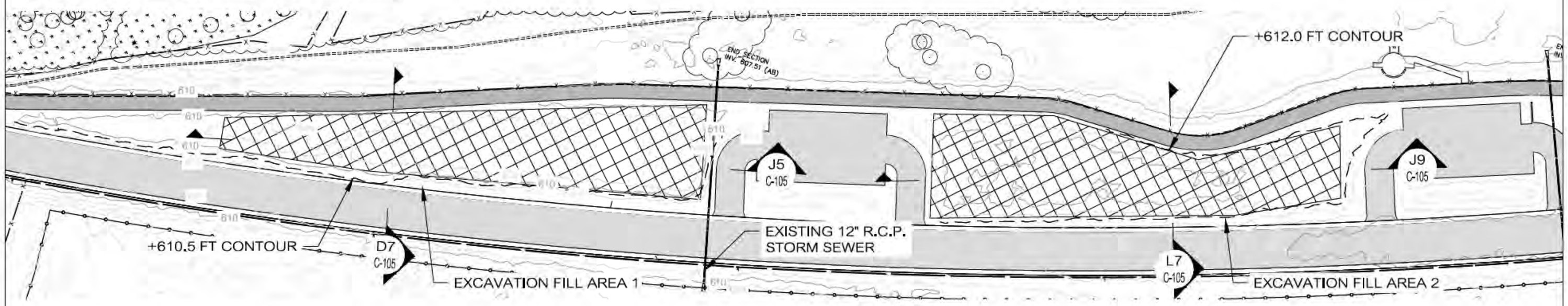
CONSTRUCTION FENCE

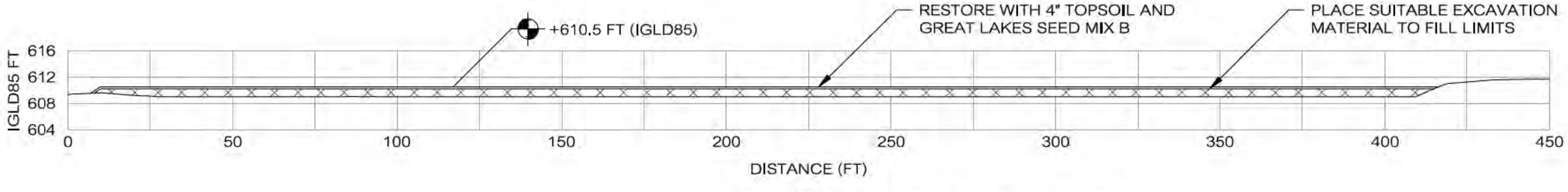
TREES

EXCAVATION FILL AREA

PAY ITEMS (EXCAVATION FILL AREA SHEETS)

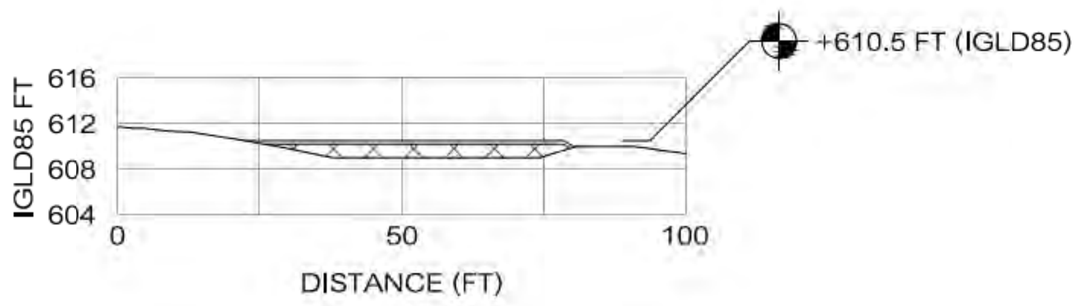
	UNIT	QUANTITY
TOPSOIL FOR FILL AREA RESTORATION	CY	762
GREAT LAKES BARRENS SEED MIX B	AC	1.41

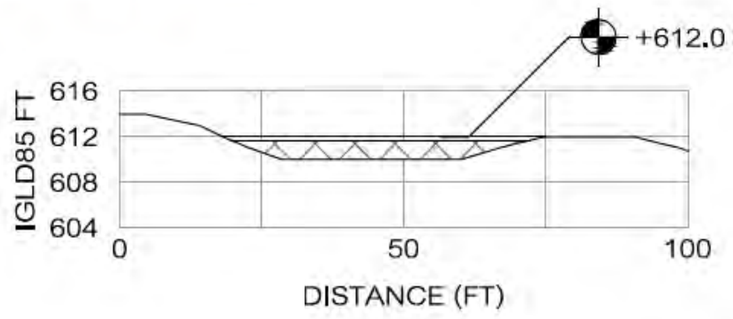




J5 C-105 EXCAVATION FILL AREA 1 SECTION

SCALE = H1:20 V1:10



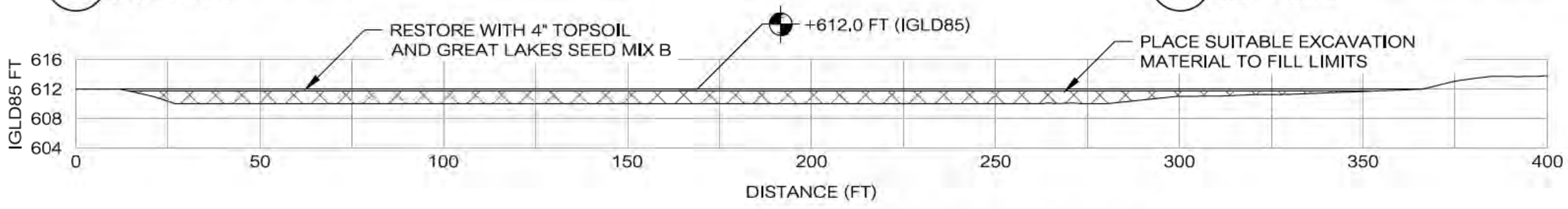


D7 C-105 EXCAVATION FILL AREA 1 CROSS-SECTION

SCALE = H1:20 V1:10

L7 C-105 EXCAVATION FILL AREA 2 CROSS-SECTION

SCALE = H1:20 V1:10



J9 C-105 EXCAVATION FILL AREA 2 SECTION

SCALE = H1:20 V1:10

0 50 100 FEET

SCALE = 1:50

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JID	MJC	--	2022-02-21

PREPARED FOR: City of Marquette, Michigan

Superior Watershed Partnership and Land Conservancy

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

EXCAVATION FILL AREA 1 & 2 LAYOUT PLAN & SECTION

ISSUE NUMBER: 1 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: C-105

PROJECT NUMBER: 13290.101

P:\13290\01\MARQUETTE LAKESHORE\PLOTS\SHORELINE\REVISIONS\CAD\WORKING\9-DESIGN\02_PRELIMINARY DESIGN\C-105.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



COORDINATE TABLE/NOTES

1. PROTECT EXISTING MONITORING WELLS OUTSIDE WATERFRONT CONSTRUCTION FOOTPRINT WITH PROTECTIVE FENCING AND DO NOT DISTURB DURING CONSTRUCTION.
2. EXISTING MONITORING WELLS WITHIN WATERFRONT CONSTRUCTION FOOTPRINT TO BE PROTECTED AND EXTENDED BY OTHERS.
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10. THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" AT 1-800-482-7171, 72 HOURS (3 WORKING DAYS) IN ADVANCE OF ANY EXCAVATION OPERATIONS.

LEGEND

EXISTING PROPERTY LINE

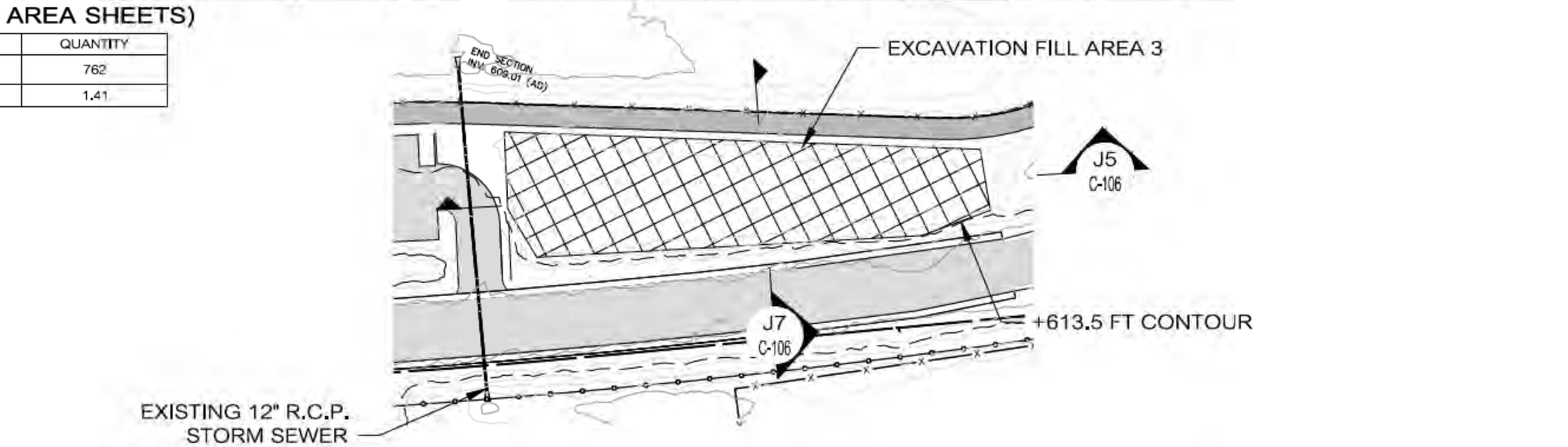
CONSTRUCTION FENCE

TREES

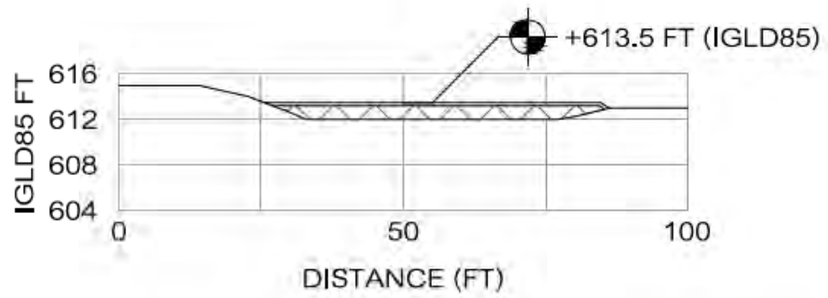
EXCAVATION FILL AREA

PAY ITEMS (EXCAVATION FILL AREA SHEETS)

	UNIT	QUANTITY
TOPSOIL FOR FILL AREA RESTORATION	CY	762
GREAT LAKES BARRENS SEED MIX B	AC	1.41



J5 / C-106 **EXCAVATION FILL AREA 3 SECTION**
SCALE = H1:20 V1:10



J7 / C-106 **EXCAVATION FILL AREA 3 CROSS-SECTION**
SCALE = H1:20 V1:10

0 50 100 FEET
SCALE = 1:50

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY			(B) DESIGN			(C) PERMIT			(D) TENDER			(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JID	MJC	--	2022-02-21																

PREPARED FOR: City of Marquette, Michigan

Superior Watershed Partnership and Land Conservancy

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

EXCAVATION FILL AREA 3 LAYOUT PLAN & SECTION

ISSUE NUMBER: 1 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: C-106

PROJECT NUMBER: 13290.101

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

I:\13290.101\MARQUETTE_LAKESHORE\PLOTS\SHOWLINE\[MISTOWNSTORE_EA3DWORKINGV8-DESIGN02_PRELIMINARY DESIGN.C-106.DWG

City of Marquette, MI

KEY MAP



COORDINATE TABLE/NOTES

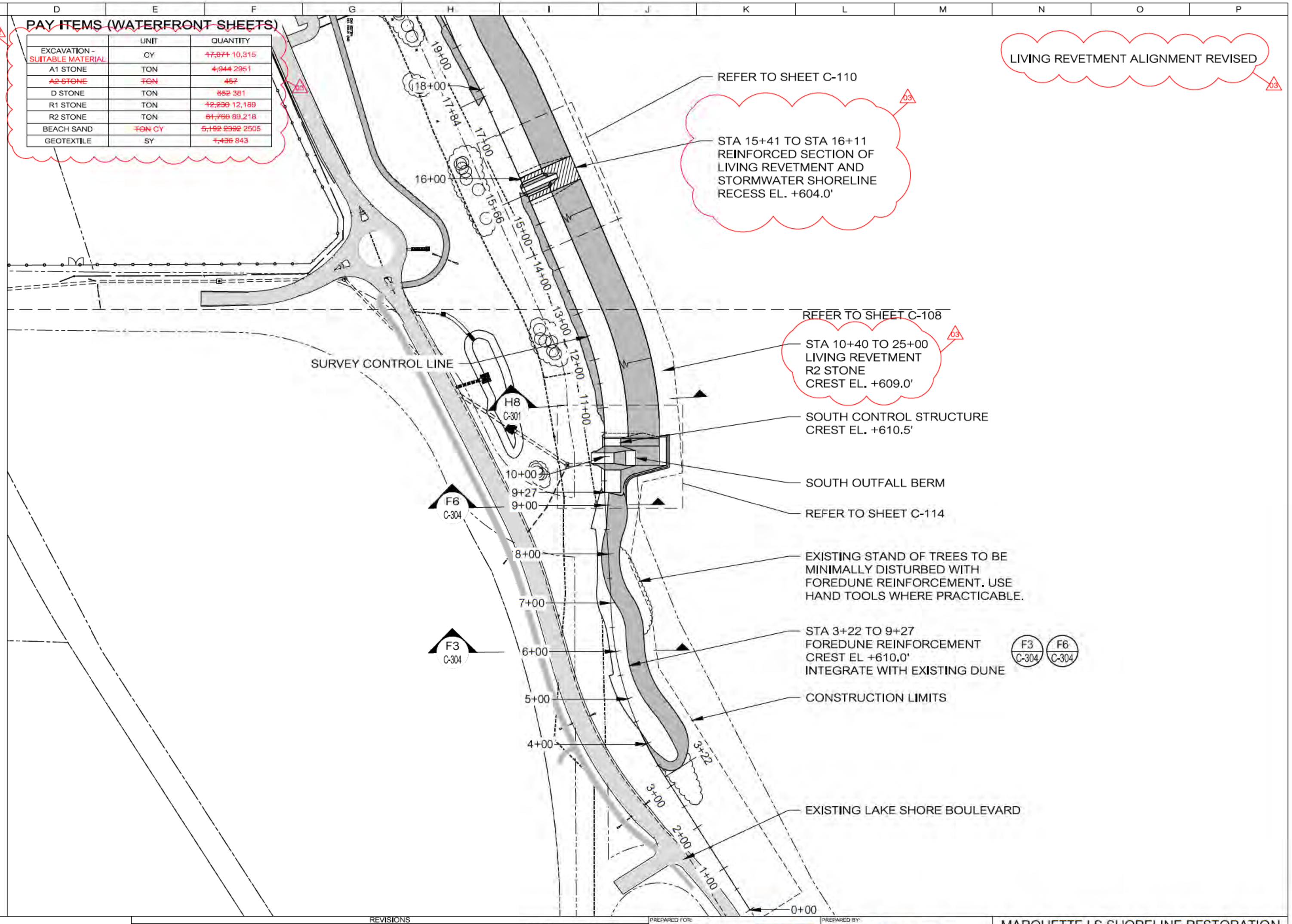
1. HORIZONTAL DATUM IS FEET RELATIVE TO THE MARQUETTE CITY DATUM. CONSULT CITY OF MARQUETTE/TRIMEDIA FOR ADDITIONAL INFORMATION.
2. VERTICAL DATUM IS IN FEET RELATIVE TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). IGLD85 ELEVATIONS CONVERSION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IS ELEVATION IGLD85 + 0.002 FEET = ELEVATION NAVD88. CONVERSION SOURCED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ONLINE VERTICAL DATUM TRANSFORMATION TOOL.
3. FOR CONSTRUCTION LIMIT AND SURVEY CONTROL LINE COORDINATES, REFER TO SHEET V-104.
4. FOR UTILITY INFORMATION, REFER TO SHEETS C-102, C-103 & C-104.

LEGEND

- STONE SLOPE
- STONE CREST
- REINFORCED SECTION
- EXISTING PROPERTY LINE

PAY ITEMS (WATERFRONT SHEETS)

	UNIT	QUANTITY
EXCAVATION - SUITABLE MATERIAL	CY	~~17,071~~ 10,315
A1 STONE	TON	~~4,944~~ 2951
~~A2 STONE~~	~~TON~~	~~457~~
D STONE	TON	~~652~~ 381
R1 STONE	TON	~~12,230~~ 12,189
R2 STONE	TON	~~81,760~~ 89,218
BEACH SAND	~~TON~~ CY	~~5,192~~ ~~2392~~ 2505
GEOTEXTILE	SY	~~1,436~~ 843



0 100 200 FEET
SCALE = 1:100

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JID	MJC	–	2022-02-21
D	2	REVISED PAY ITEM	PST	JID	PST	–	2022-04-05
D	3	REVISED LAYOUT AND QUANTITIES UPDATED	MM	MJC	MJC	–	2023-11-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

WATERFRONT LAYOUT PLAN STA 0+00 TO 13+00

ISSUE NUMBER:
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: C-107

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\9-DESIGN\02_PRELIMINARY DESIGN\C-107.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



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PAY ITEMS (WATERFRONT SHEETS)

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R2 STONE	TON	~~81,760~~ 89,218
BEACH SAND	~~TON~~ CY	~~5,192~~ ~~2392~~ 2505
GEOTEXTILE	SY	~~1,436~~ 843

LEGEND

- STONE SLOPE
- STONE CREST
- REINFORCED SECTION
- EXISTING PROPERTY LINE

LIVING REVETMENT ALIGNMENT REVISED

REFER TO SHEET C-109

REFER TO SHEET C-111

STA 28+27 TO STA 28+96
REINFORCED SECTION OF
LIVING REVETMENT AND
STORMWATER
SHORELINE RECESS
EL. +604.0'

LIVING REVETMENT
R2 STONE
CREST EL. +608.0'

STA 24+78 TO 25+21
REINFORCED SECTION OF
LIVING REVETMENT
R1 STONE
CREST EL. +609.0'

STA 25+00
END OF SOUTH TYP. SECTION

EXISTING MULTIUSE TRAIL

SURVEY CONTROL LINE

CONSTRUCTION LIMITS

STA 20+15 TO STA 20+58
REINFORCED SECTION OF
LIVING REVETMENT
R1 STONE
CREST EL. +609.0'

LIVING REVETMENT
R2 STONE
CREST EL. +609.0'

REFER TO SHEET C-107

EXISTING LAKE SHORE BOULEVARD

REFER TO SHEET C-110

0 100 200 FEET
SCALE = 1:100

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT								(D) TENDER (E) CONSTRUCTION (F) RECORD							
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JID	MJC	--	2022-02-21								
D	2	REVISED PAY ITEM	PST	JID	PST	--	2022-04-05								
D	3	REVISED LAYOUT AND QUANTITIES UPDATED	MM	MJC	MJC	--	2023-11-21								

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAKE EXPLORATORIUM

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

WATERFRONT LAYOUT PLAN STA 13+00 TO 29+00

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: C-108

P:\13290_101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\06_CADD\WORKING\B-DESIGN\02_PRELIMINARY DESIGN\C-108.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



COORDINATE TABLE/NOTES

1. HORIZONTAL DATUM IS FEET RELATIVE TO THE MARQUETTE CITY DATUM. CONSULT CITY OF MARQUETTE/TRIMEDIA FOR ADDITIONAL INFORMATION.
2. VERTICAL DATUM IS IN FEET RELATIVE TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). IGLD85 ELEVATIONS CONVERSION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IS ELEVATION IGLD85 + 0.002 FEET = ELEVATION NAVD88. CONVERSION SOURCED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ONLINE VERTICAL DATUM TRANSFORMATION TOOL.
3. FOR CONSTRUCTION LIMIT AND SURVEY CONTROL LINE COORDINATES, REFER TO SHEET V-104.
4. FOR UTILITY INFORMATION, REFER TO SHEETS C-102, C-103 & C-104.

PAY ITEMS (WATERFRONT SHEETS)

	UNIT	QUANTITY
EXCAVATION - SUITABLE MATERIAL	CY	~~17,071~~ 10,315
A1 STONE	TON	~~4,944~~ 2951
~~A2 STONE~~	~~TON~~	~~457~~
D STONE	TON	~~652~~ 381
R1 STONE	TON	~~12,230~~ 12,189
R2 STONE	TON	~~81,760~~ 89,218
BEACH SAND	~~TON~~ CY	~~5,192~~ ~~2392~~ 2505
GEOTEXTILE	SY	~~1,436~~ 843

LIVING REVETMENT ALIGNMENT REVISED

NORTH OUTFALL PROTECTION
REFER TO SHEET C-113

STA 40+65 TO 41+14
REINFORCED SECTION OF
LIVING REVETMENT
R1 STONE
CREST EL. +608.0'
REFER TO SHEET C-113

CONSTRUCTION LIMITS

SURVEY CONTROL LINE

STA 25+00 TO 40+65
LIVING REVETMENT
R2 STONE
CREST EL. +608.0'

STA 33+75 TO STA 34+47
REINFORCED SECTION OF
LIVING REVETMENT AND
STORMWATER SHORELINE
RECESS EL. +603.0'

REFER TO SHEET C-112

REFER TO SHEET C-108

41+64
41+00
40+65
40+00
39+00
38+00
37+00
36+00
35+00
34+00
33+00
32+00
31+00
30+00

EXISTING MULTIUSE TRAIL

EXISTING LAKE SHORE BOULEVARD

EXISTING WETLAND

H4
C-301

LEGEND

- STONE SLOPE
- STONE CREST
- REINFORCED SECTION
- EXISTING PROPERTY LINE
- WETLAND

0 100 200 FEET
SCALE = 1:100

N

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	–	2022-02-21
D	2	REVISED PAY ITEM	PST	JD	PST	–	2022-04-05
D	3	REVISED LAYOUT AND QUANTITIES UPDATED	MM	MJC	MJC	–	2023-11-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

WATERFRONT LAYOUT PLAN STA 29+00 TO 41+64

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: C-109

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

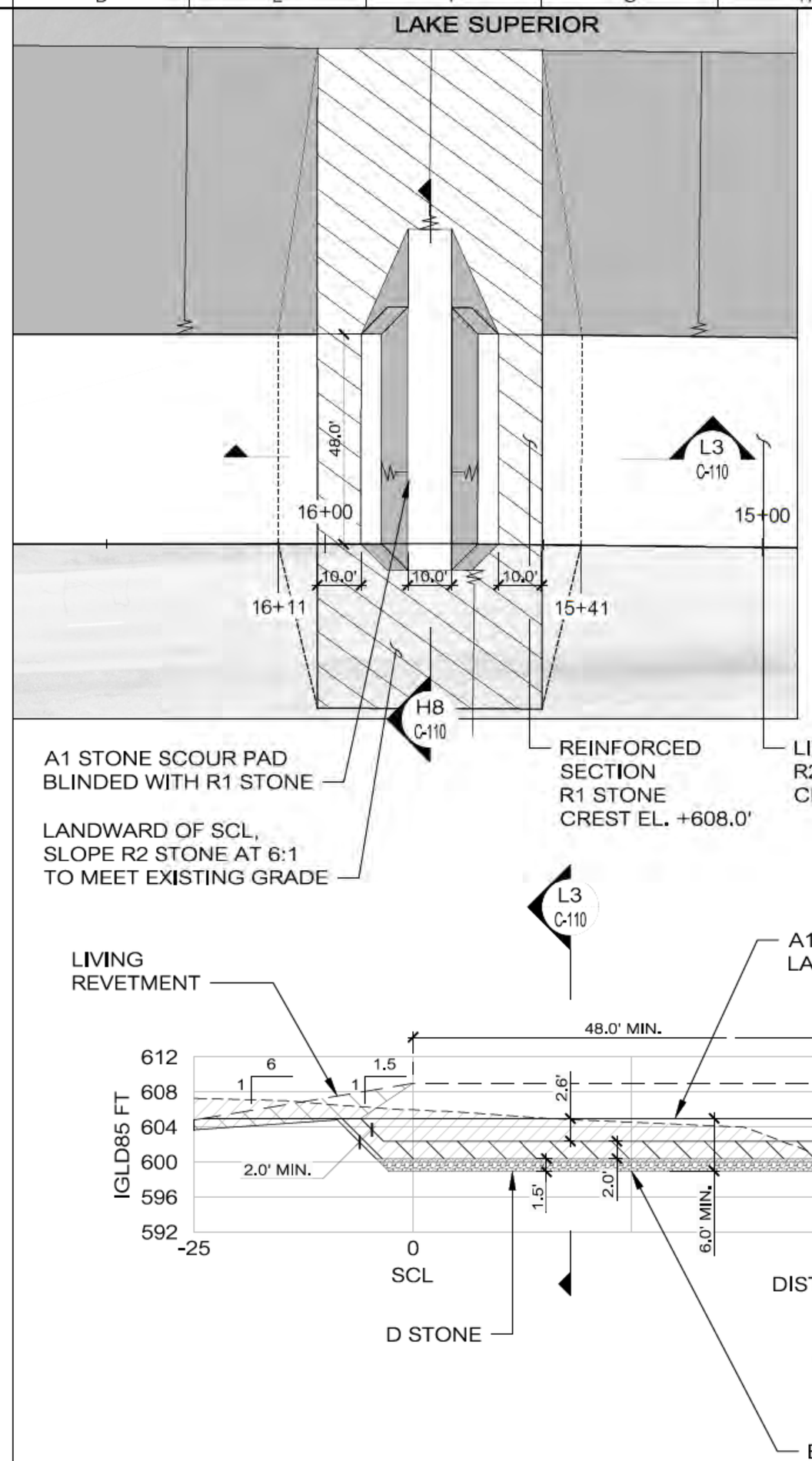
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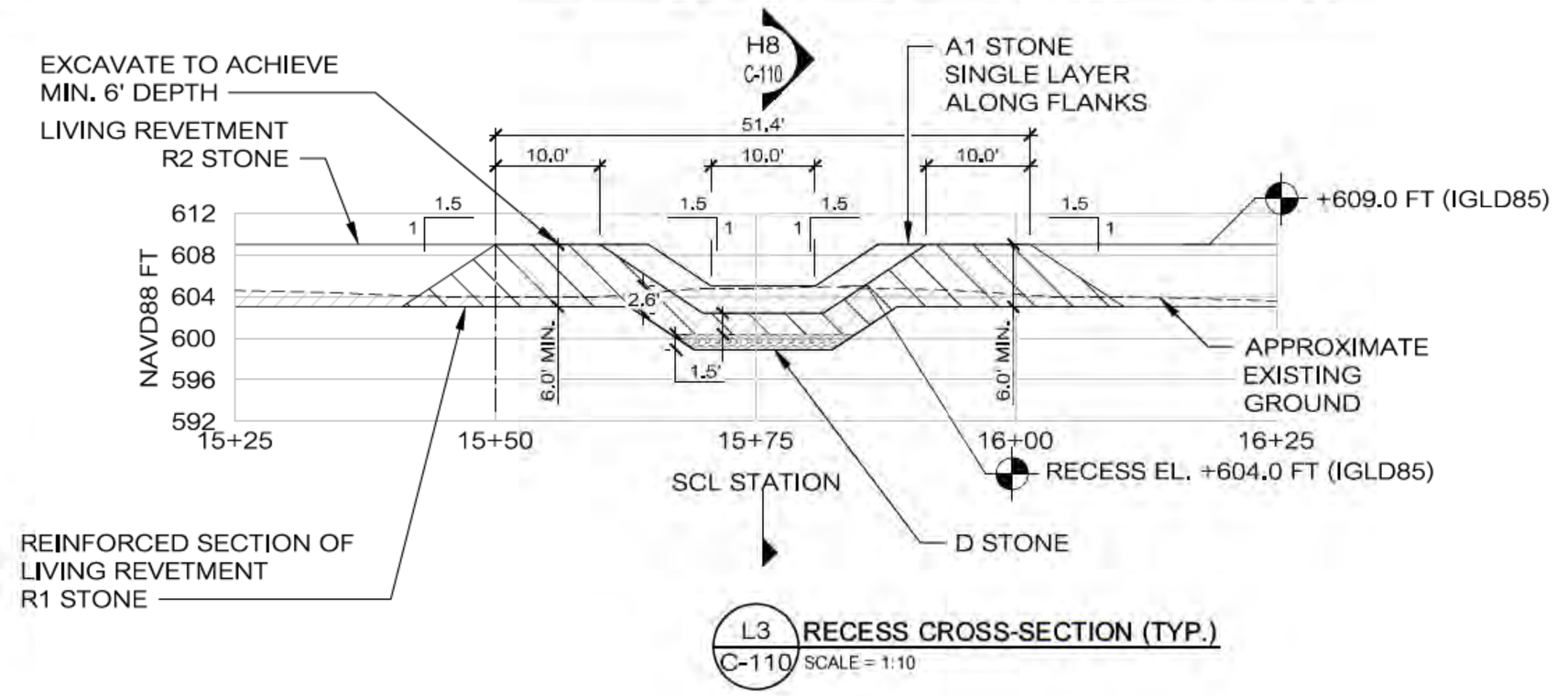
City of Marquette, MI

KEY MAP

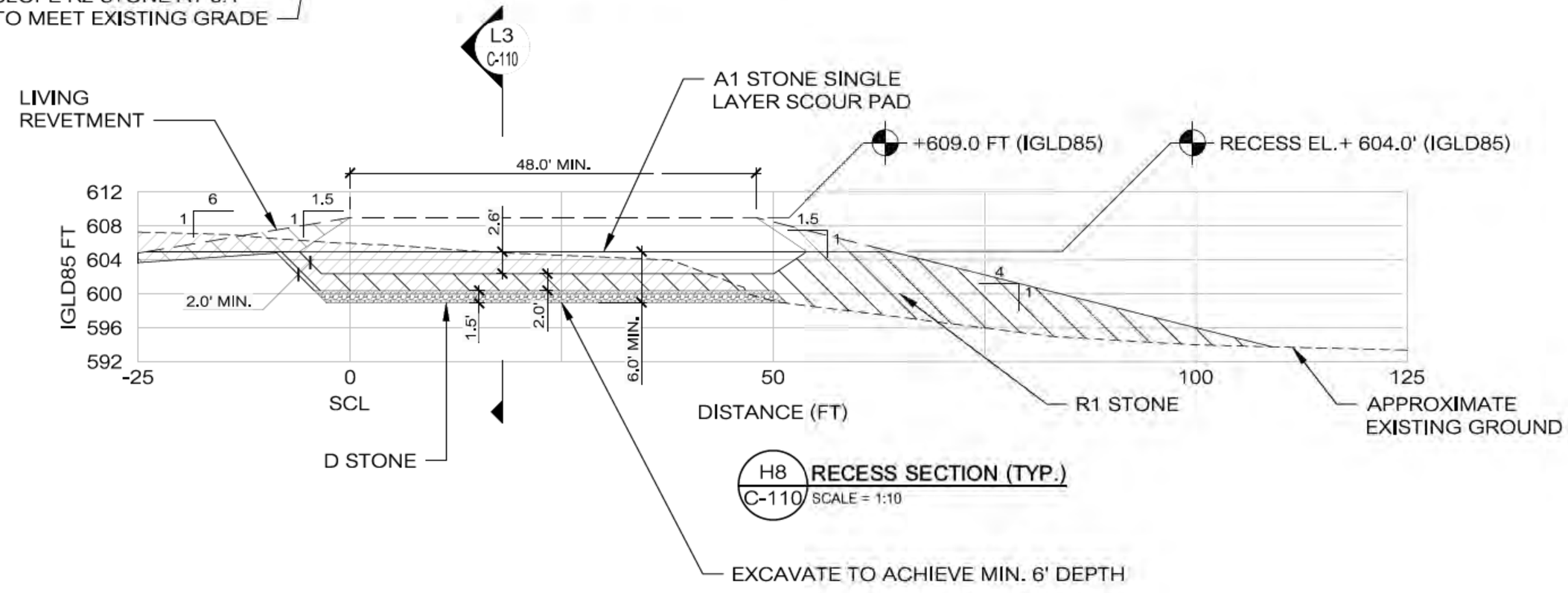


COORDINATE TABLE/NOTES





L3 C-110 RECESS CROSS-SECTION (TYP.)
SCALE = 1:10



H8 C-110 RECESS SECTION (TYP.)
SCALE = 1:10

LEGEND

- STONE SLOPE
- EXCAVATION
- D STONE
- REINFORCED SECTION (R1 STONE)

0 20 40 FEET
SCALE = 1:20

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
(A) PRELIMINARY							
(B) DESIGN							
(C) PERMIT	D	1 BID DOCUMENTS	PST	JED	MJC	–	2022-02-21
	D	2 NEW DRAWING	MM	JED	MJC	–	2023-11-21
(D) TENDER							
(E) CONSTRUCTION							
(F) RECORD							

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

RECESS AT STA 15+41 TO STA 16+11 LAYOUT PLAN & PROFILE

ISSUE NUMBER:
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: C-110

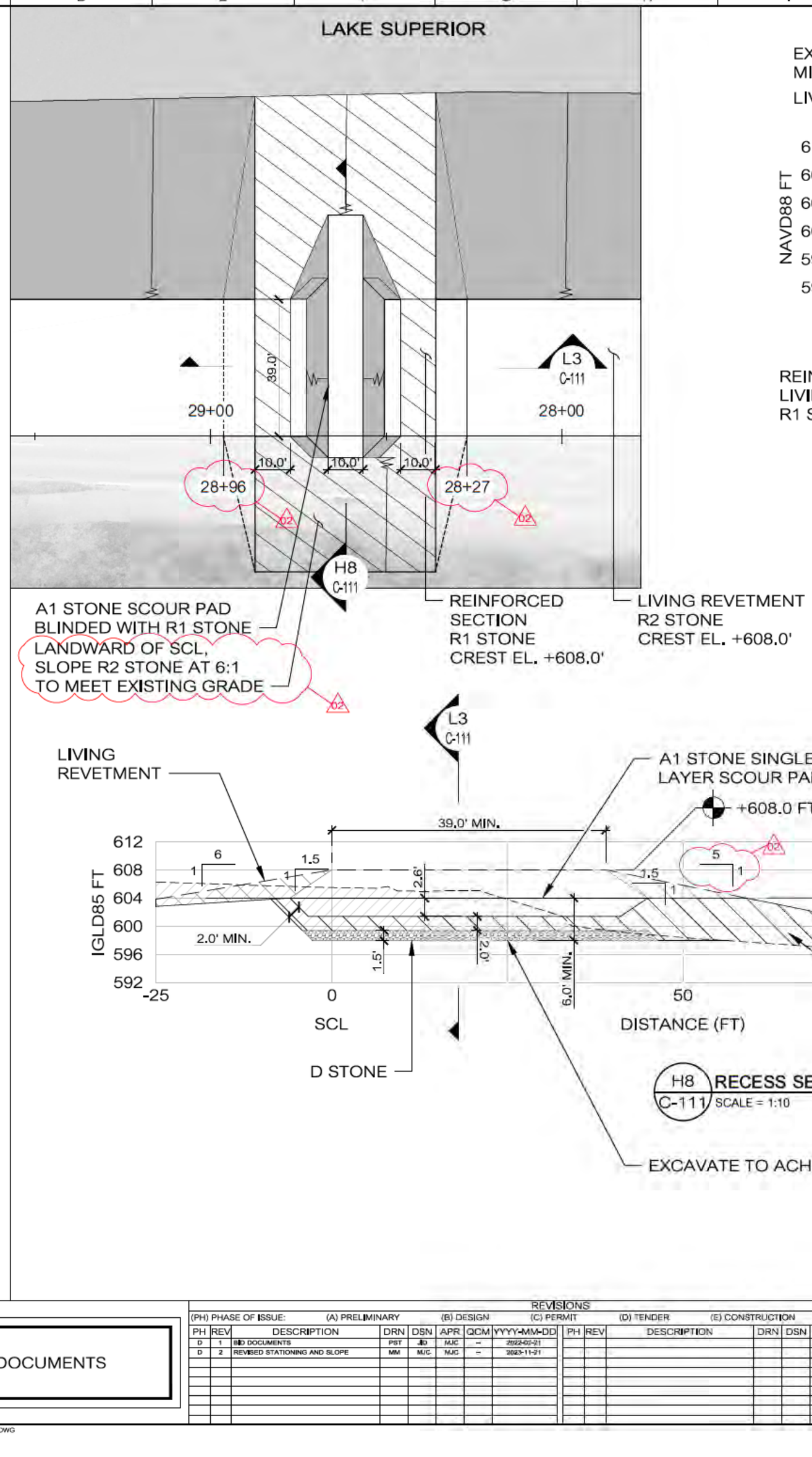
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

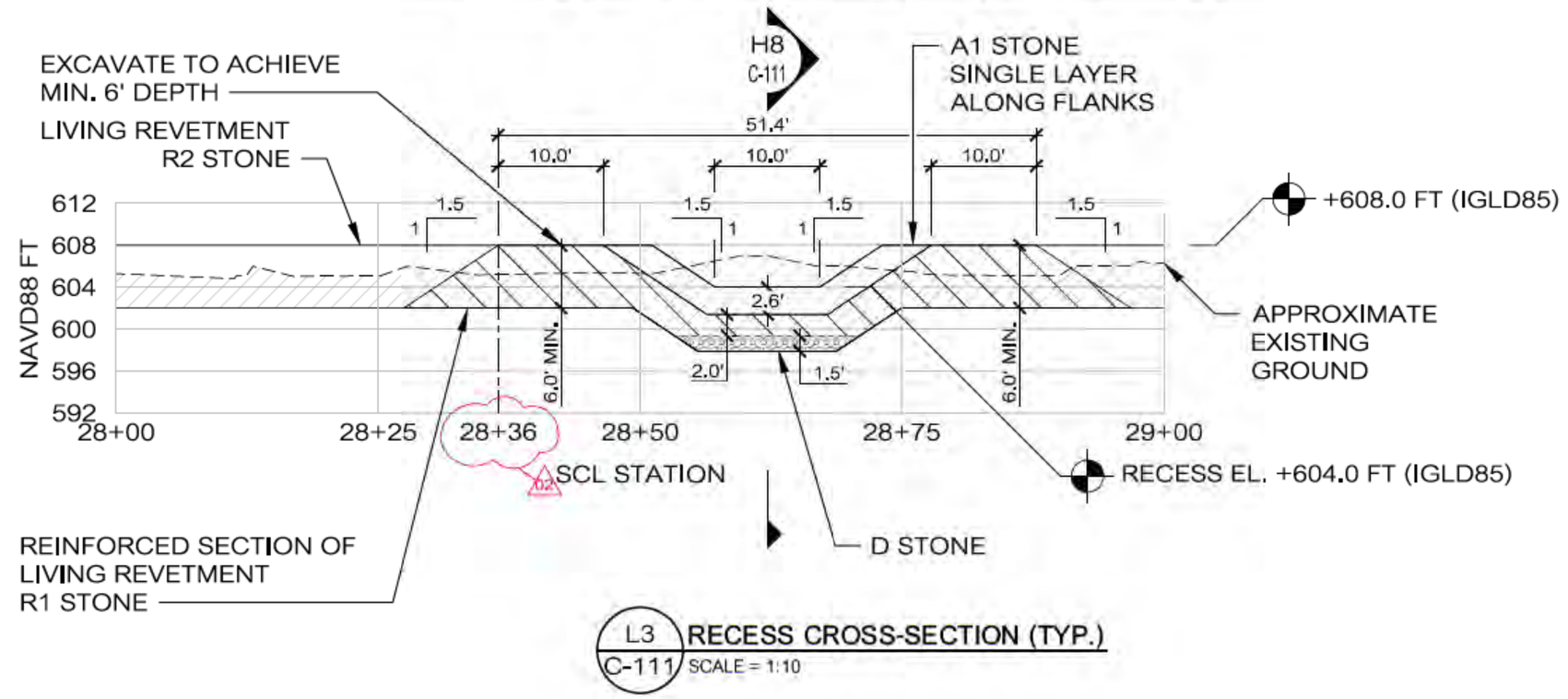
City of Marquette, MI

KEY MAP

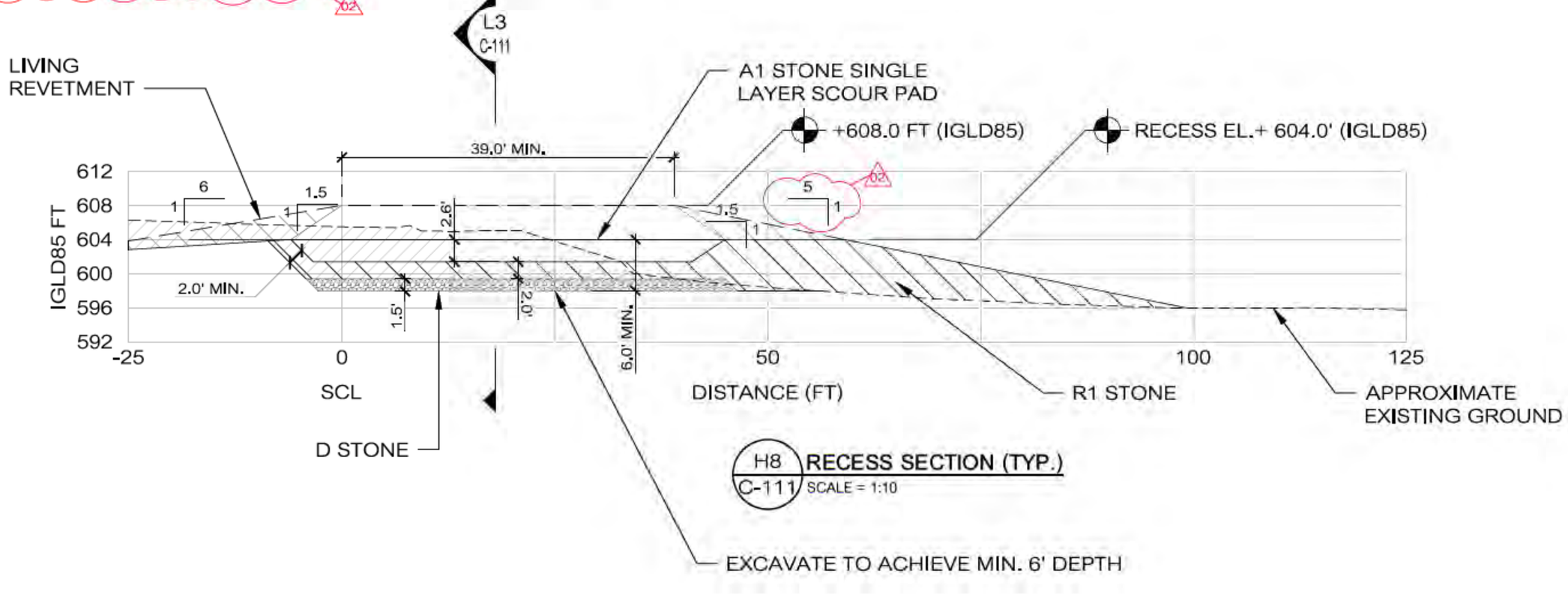


COORDINATE TABLE/NOTES





L3 C-111 **RECESS CROSS-SECTION (TYP.)**
SCALE = 1:10



H8 C-111 **RECESS SECTION (TYP.)**
SCALE = 1:10

LEGEND

- STONE SLOPE
- EXCAVATION
- D STONE
- REINFORCED SECTION (R1 STONE)

0 20 40 FEET
SCALE = 1:20

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	--	2022-02-21
D	2	REVISED STATIONING AND SLOPE	MM	MJC	MJC	--	2023-11-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.
IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

RECESS AT STA 28+27 TO 28+96 LAYOUT PLAN & PROFILE

ISSUE NUMBER:
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: C-111

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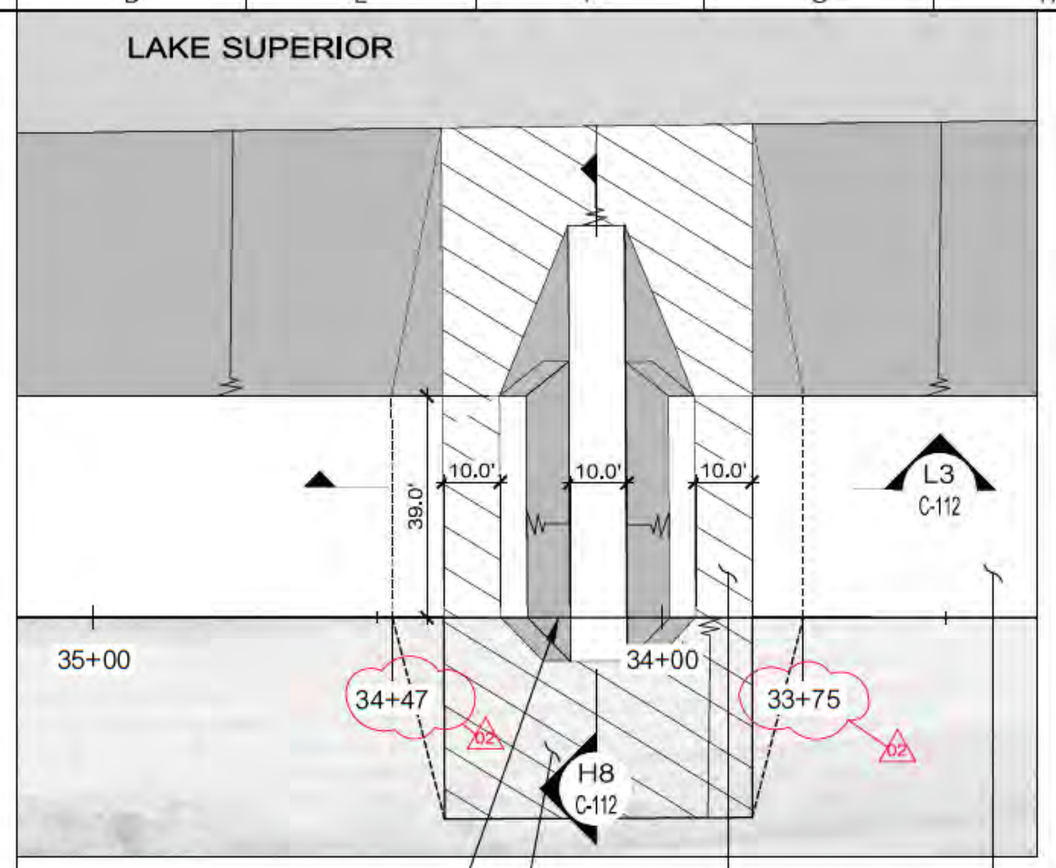
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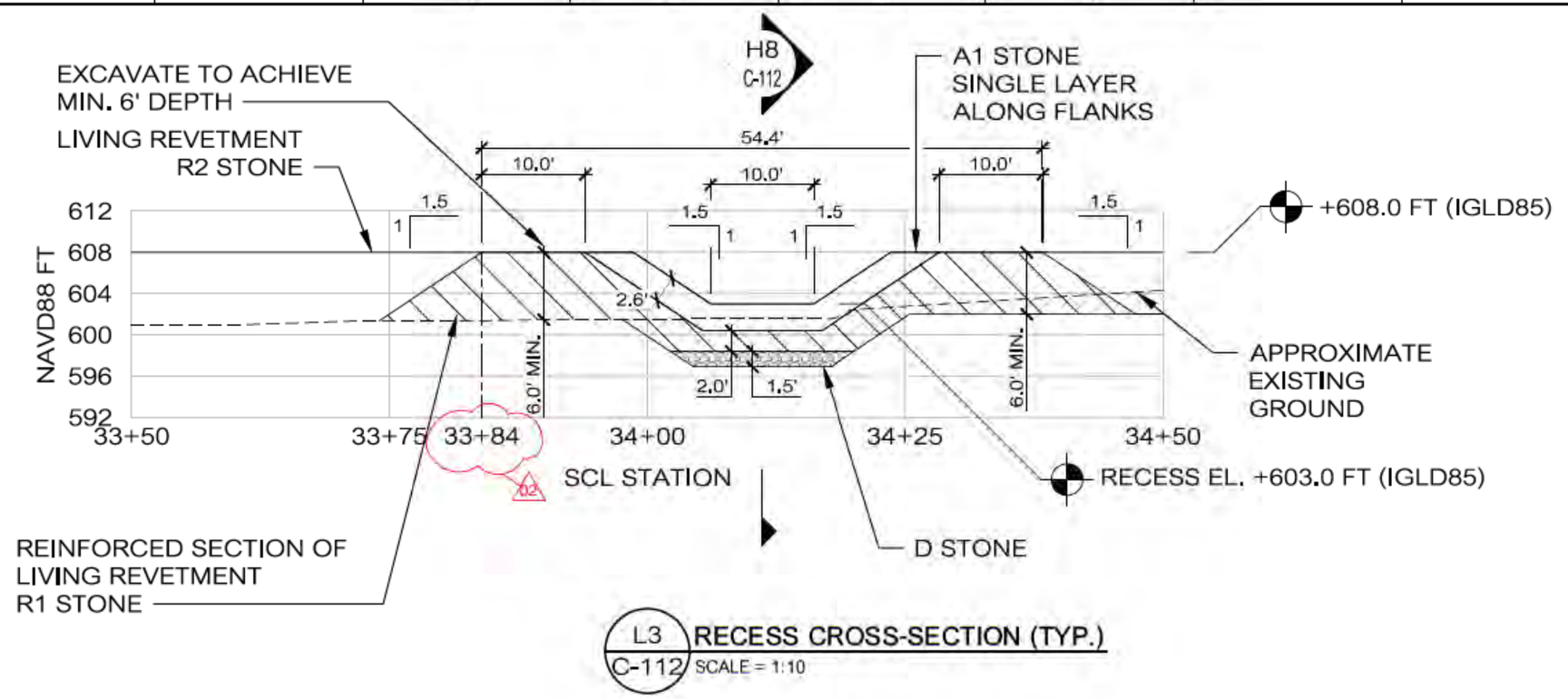
City of Marquette, MI

KEY MAP

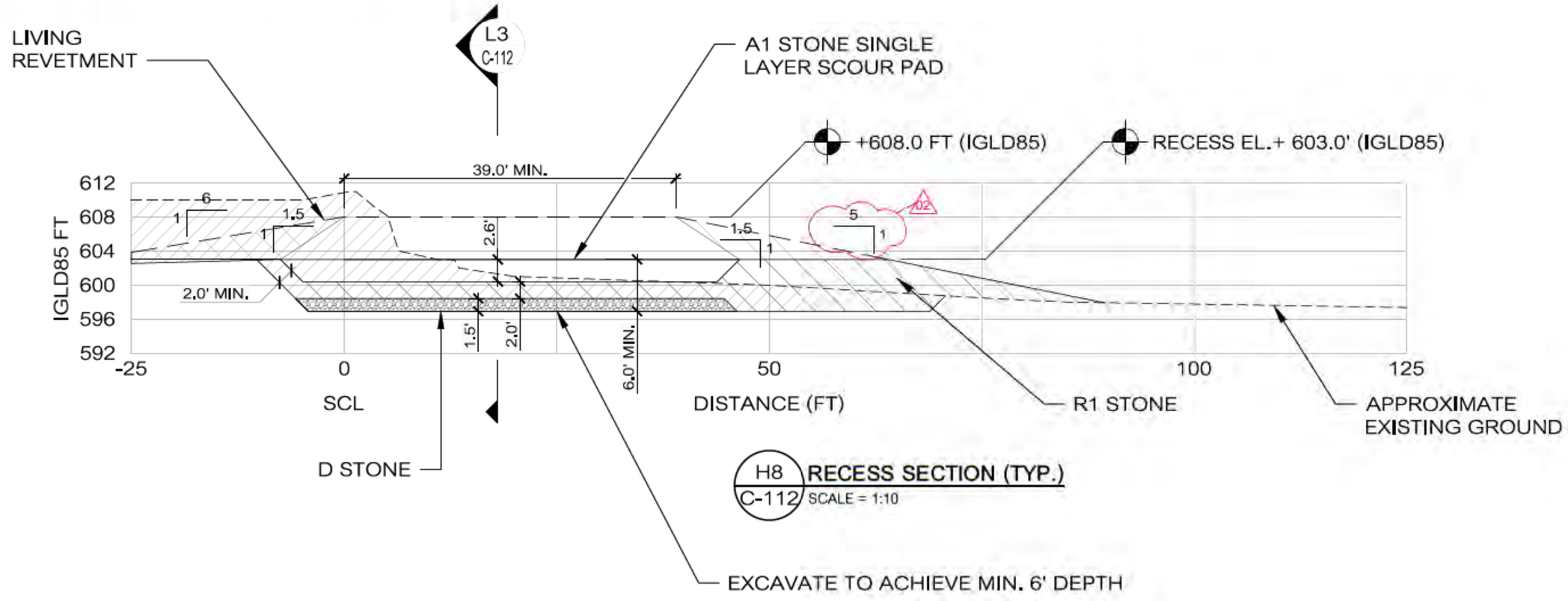


COORDINATE TABLE/NOTES





L3 C-112 **RECESS CROSS-SECTION (TYP.)**
SCALE = 1:10



H8 C-112 **RECESS SECTION (TYP.)**
SCALE = 1:10

LEGEND

- STONE SLOPE
- EXCAVATION
- D STONE
- REINFORCED SECTION (R1 STONE)

0 20 40 FEET
SCALE = 1:20

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY			(B) DESIGN			(C) PERMIT			(D) TENDER			(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	--	2022-02-21																
D	2	REVISED STATIONING AND SLOPE	MM	MJC	MJC	--	2023-11-21																

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

RECESS AT STA 33+75 TO 34+47 LAYOUT PLAN & PROFILE

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: C-112

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\03-DESIGN\02_PRELIMINARY DESIGN\C-112.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP

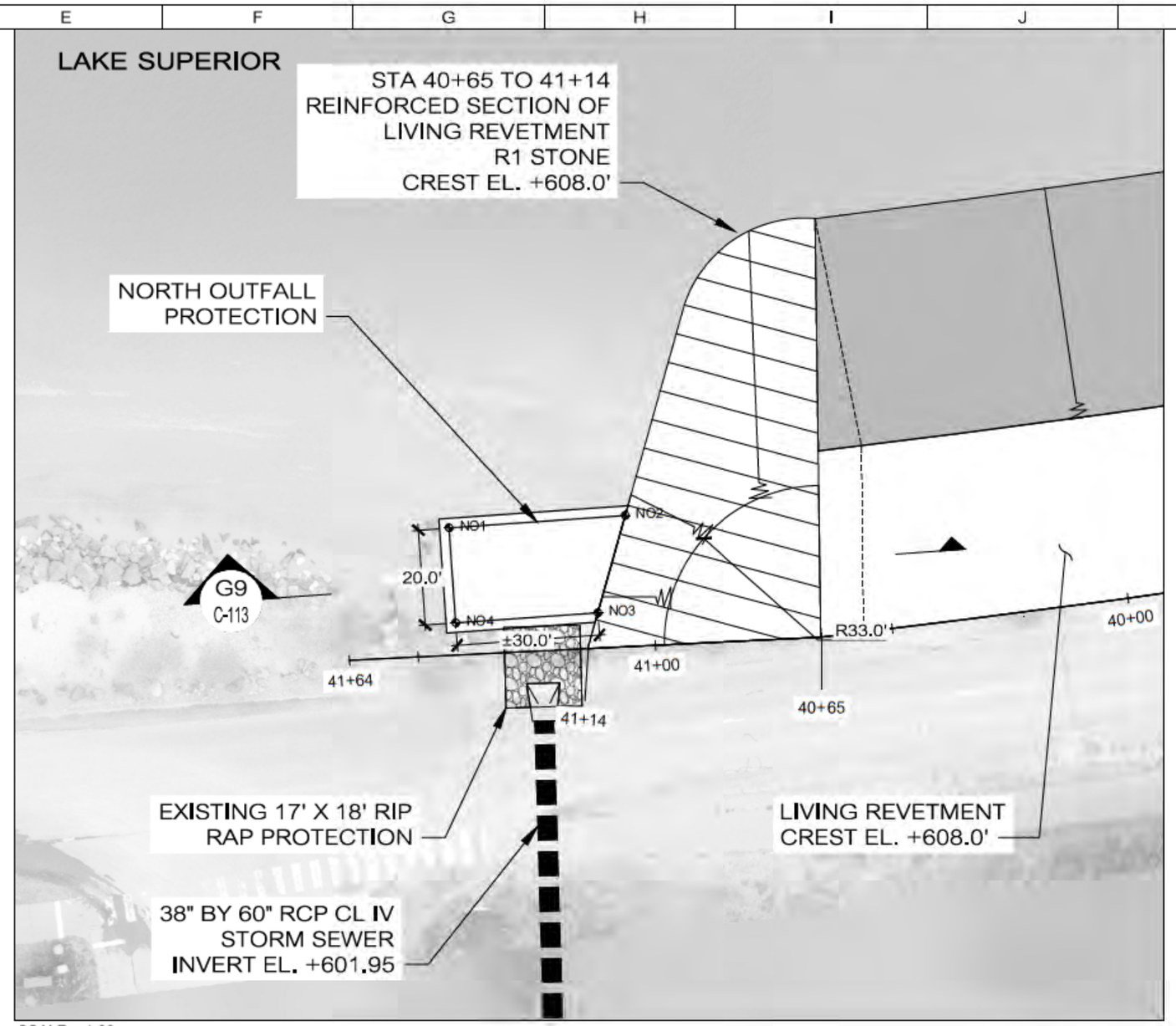


COORDINATE TABLE/NOTES

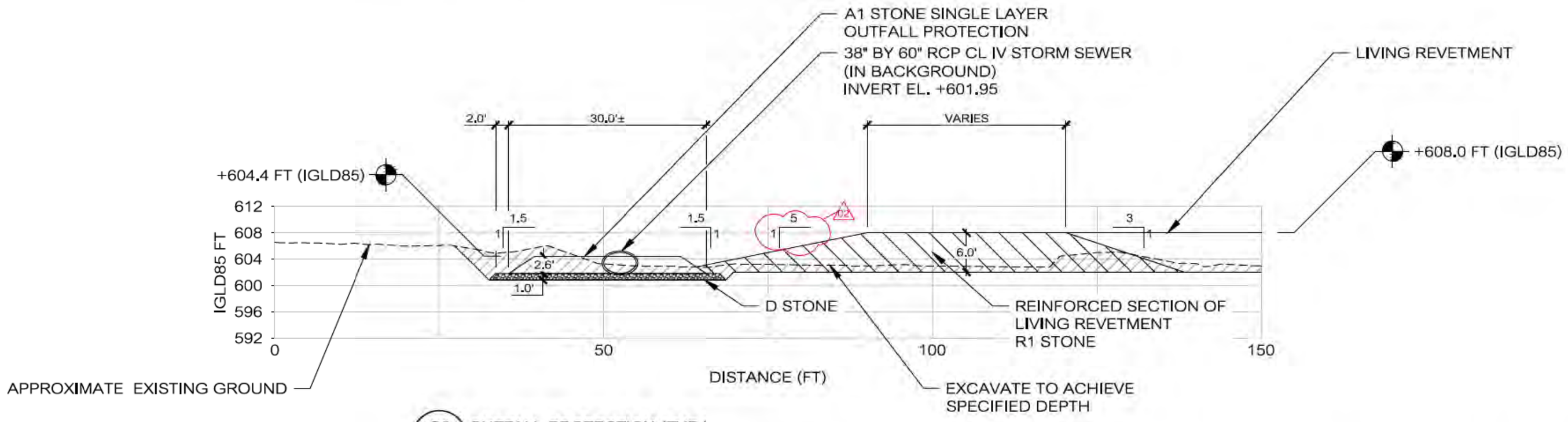
PROPOSED ALIGNMENT COORDINATES		
POINT NO.	EASTING	NORTHING
NO1	26147844.9	652190.6
NO2	26147847.5	652153.5
NO3	26147827.1	652159.2
NO4	26147825.0	652189.2

LEGEND

- STONE SLOPE
- STONE CREST
- D STONE
- REINFORCED SECTION (R1 STONE)



SCALE = 1:20



G9 / C-113 **OUTFALL PROTECTION (TYP.)**
SCALE = 1:10

0 20 40 FEET
SCALE = 1:20

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PBT	JEO	MJC	--	2022-02-21
D	2	REVISED SLOPE	MM	MJC	MJC	--	2023-11-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: City of Marquette, Michigan

PREPARED BY: Baird.
IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

NORTH OUTFALL PROTECTION PLAN & PROFILE

ISSUE NUMBER:
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: C-113

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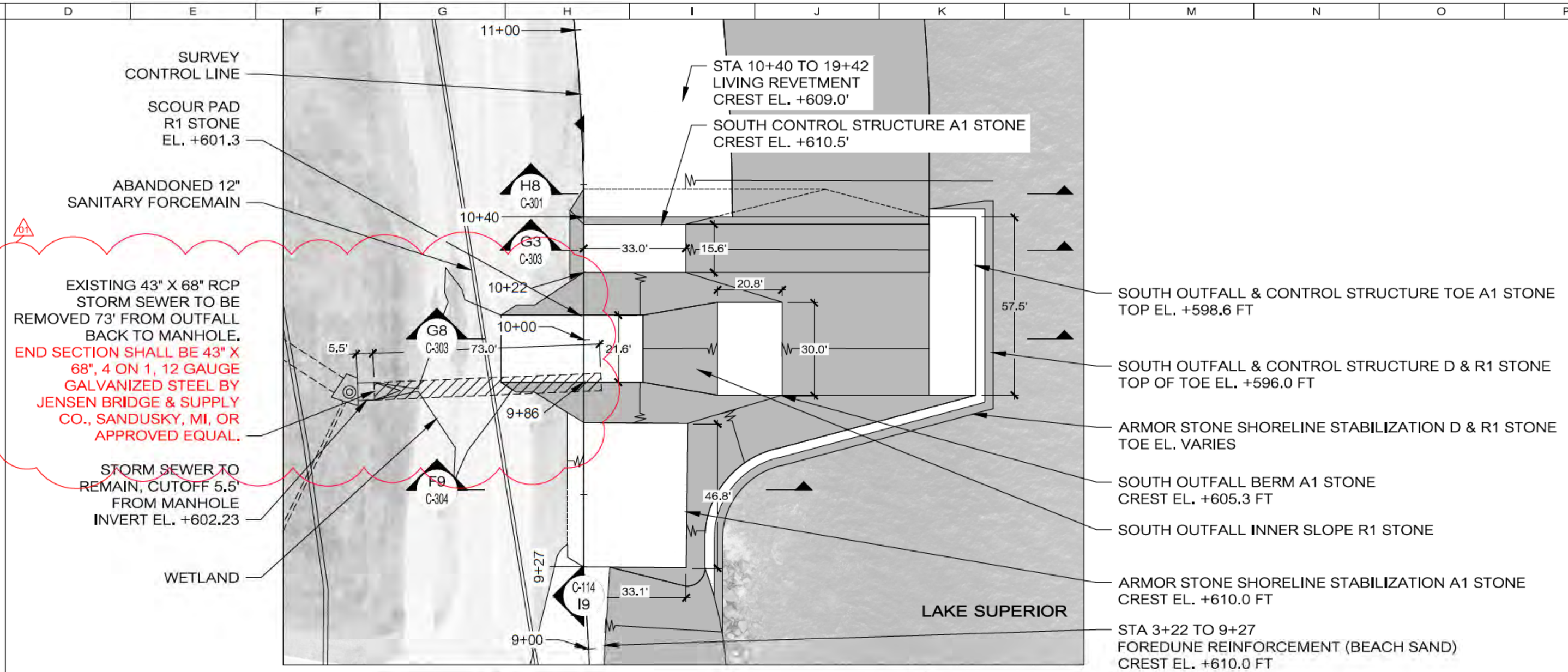
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

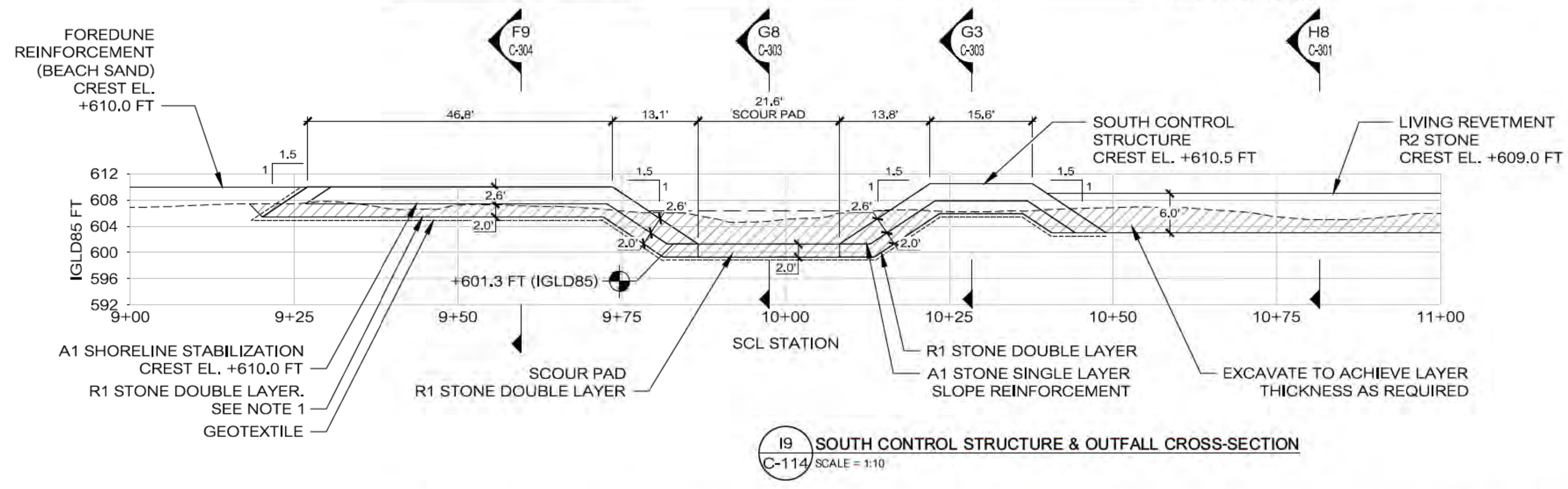
KEY MAP



COORDINATE TABLE/NOTES

1. EXTEND R1 STONE AND GEOTEXTILE AROUND A1 STONE ON EDGE BETWEEN SHORELINE STABILIZATION AND FOREDUNE TO DISCOURAGE MIGRATION OF SAND.





I9 / C-114 **SOUTH CONTROL STRUCTURE & OUTFALL CROSS-SECTION**
SCALE = 1:10

LEGEND

- STONE SLOPE
- STONE CREST
- A1 STONE
- R1 STONE
- REMOVAL/ EXCAVATION

0 20 40 FEET
SCALE = 1:20

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY			(B) DESIGN			(C) PERMIT			(D) TENDER			(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	--	2022-02-21																

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

SOUTH OUTFALL PROTECTION PLAN & PROFILE

ISSUE NUMBER: 1 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: C-114

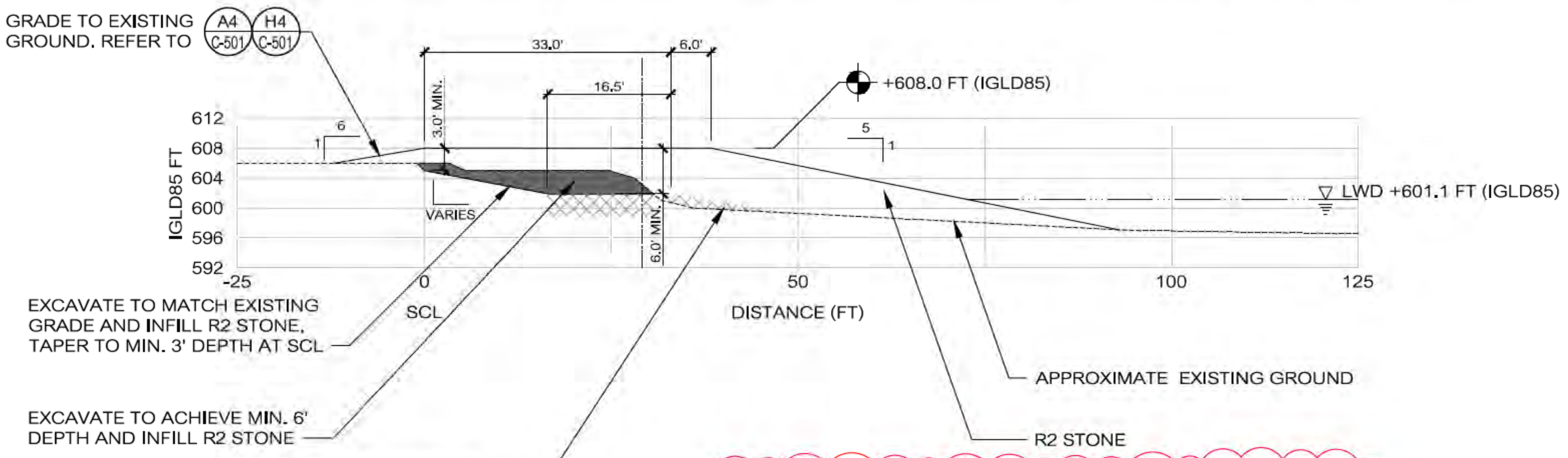
PROJECT NUMBER: 13290.101

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

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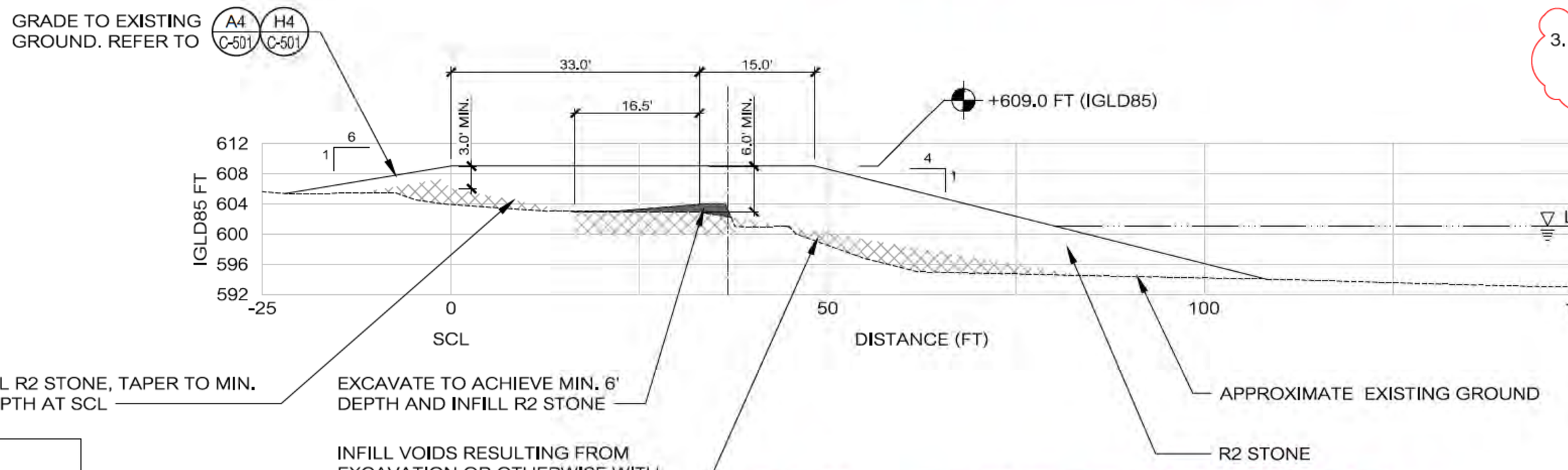
City of Marquette, MI

LIVING REVETMENT ALIGNMENT REVISED



H4 / C-301 **LIVING REVETMENT - NORTH (TYP.) - STA 25+00 TO 40+65**
SCALE = 1:10

NOTES:
1. FOR STA 19+00 TO STA 21+00, SEE C-302
2. SEE C-108 FOR TRANSITION: SOUTH (TYP) REVETMENT SECTION ENDS ON SOUTH SIDE OF REINFORCED SECTION. NORTH (TYP) SECTION BEGINS ON NORTH SIDE OF REINFORCED SECTION.
3. EXCAVATION IS NOT ALLOWED WATERWARD OF 602.6 FT(IGLD85)(EGLE OHWM) BETWEEN STA 19+00 AND STA 24+00.



H8 / C-301 **LIVING REVETMENT - SOUTH (TYP.) - STA 10+40 TO 25+00**
SCALE = 1:10

LEGEND

INFILL VOIDS

EXCAVATION

0 10 20 FEET
SCALE = 1:10

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
(A) PRELIMINARY							
(B) DESIGN	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21
(C) PERMIT	2	REVISED TYPICAL SECTIONS AND ADDED NOTE	MM	MJC	MJC	--	2023-11-21
(D) TENDER							
(E) CONSTRUCTION							
(F) RECORD							

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

TYPICAL SECTIONS - LIVING REVETMENT

ISSUE NUMBER: BID DOCUMENTS
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: C-301

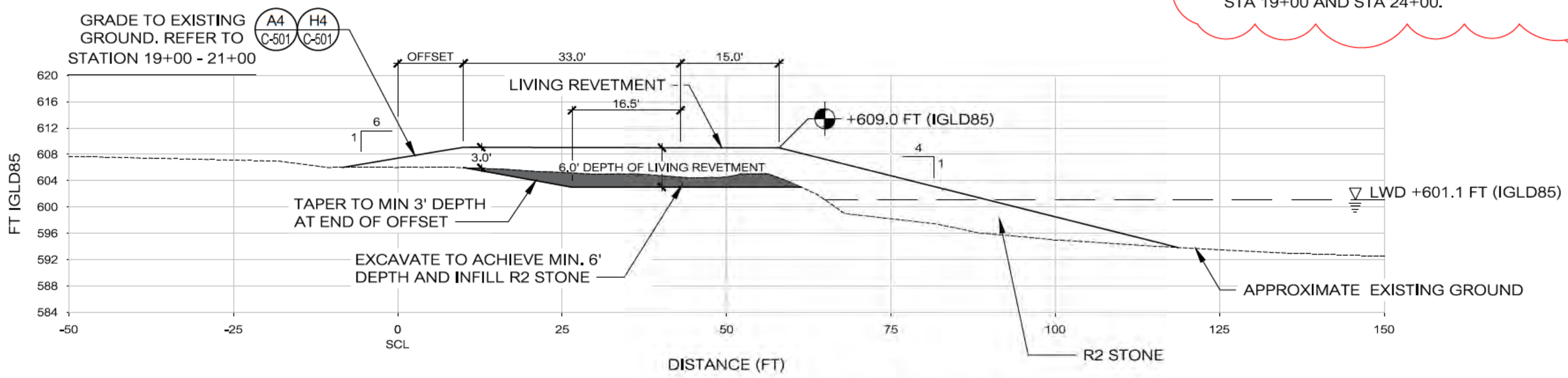
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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

STATION OFFSETS

	OFFSET
STATION 19+00	0'-0"
STATION 20+00	10'-0"
STATION 21+00	0'-0"

NOTE: MAINTAIN A STRAIGHT LINE TRANSITION OF THE OFFSET BETWEEN STATION 19+00 TO STATION 20+00 AND STATION 20+00 TO STATION 21+00.



H4 / C-302 LIVING REVETMENT CROSS-SECTION - STA 19+00 - 21+00
SCALE = 1:10

NOTES:
1. EXCAVATION IS NOT ALLOWED WATERWARD OF 602.6 FT (IGLD85)(EGLE OHWM) BETWEEN STA 19+00 AND STA 24+00.

02

LEGEND

INFILL VOIDS

EXCAVATION

0 10 20 FEET
SCALE = ####

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21
D	2	REVISED SECTION STA 19+00 - STA 21+00	MM	MJC	MJC	--	2023-11-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: CITY OF MARQUETTE MICHIGAN FOUNDED 1849

SUPERIOR WATERSHED PARTNERSHIP & LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

LIVING REVETMENT CROSS-SECTION - STA 19+00 - 21+00

ISSUE NUMBER:

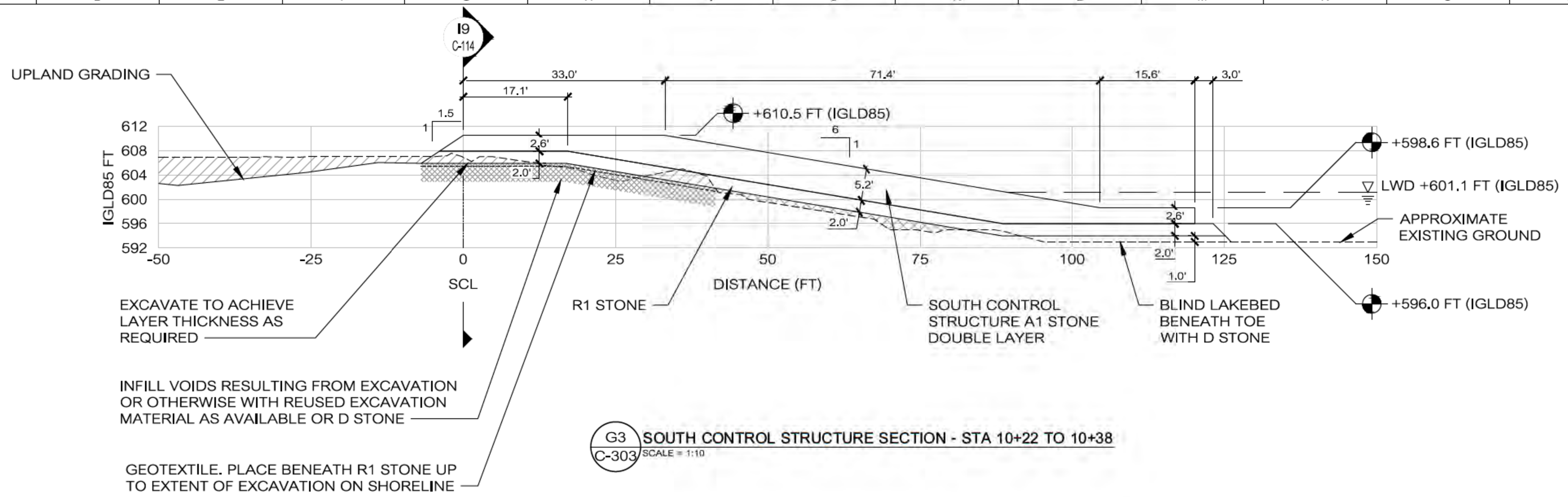
ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

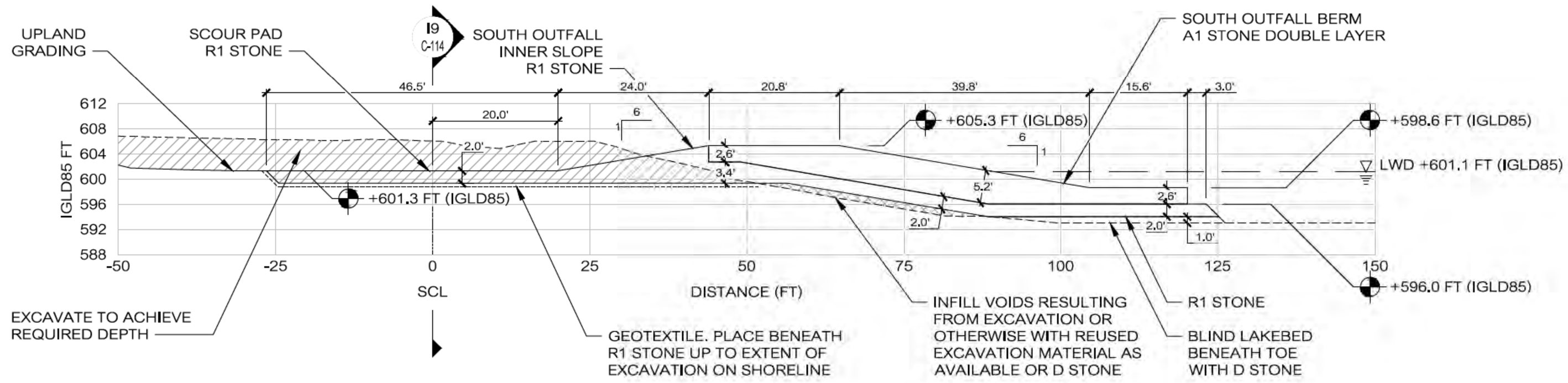
SHEET NUMBER: C-302

P:\13290_101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\WORKING\B-DESIGN\02_PRELIMINARY DESIGN\C-302 NEW.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES



G3 / C-303 **SOUTH CONTROL STRUCTURE SECTION - STA 10+22 TO 10+38**
SCALE = 1:10



G8 / C-303 **SOUTH OUTFALL BERM SECTION - STA 9+86 TO 10+08**
SCALE = 1:10

LEGEND

INFILL VOIDS

EXCAVATION

0 10 20 FEET
SCALE = 1:10

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY		(B) DESIGN		(C) PERMIT			(D) TENDER		(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21								

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP & LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

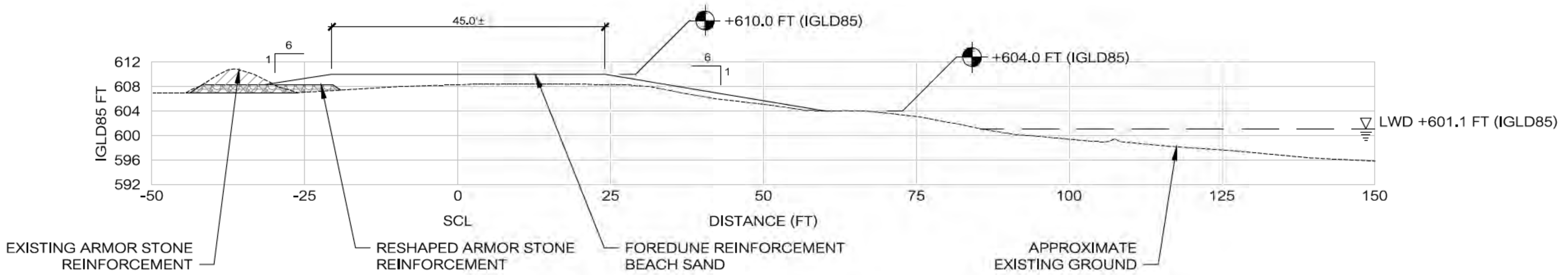
TYPICAL SECTIONS - SOUTH CONTROL STRUCTURE

ISSUE NUMBER: 1 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: C-303

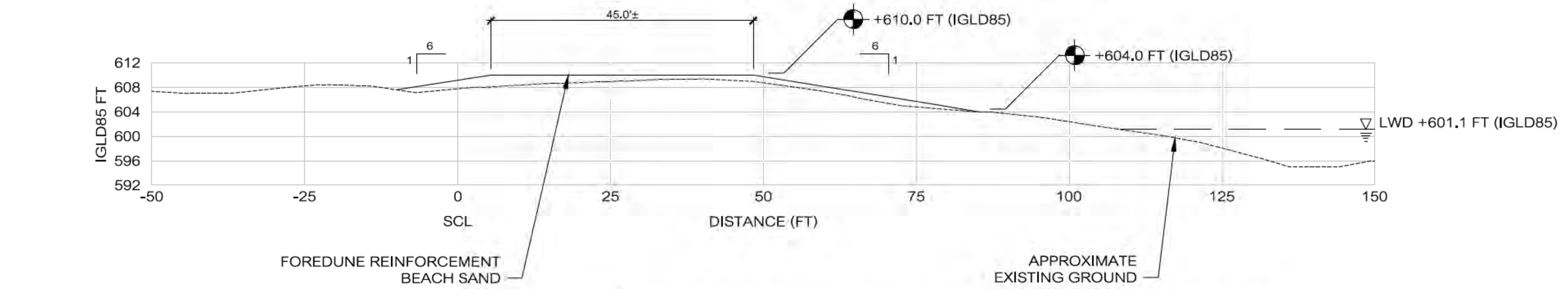
PROJECT NUMBER: 13290.101

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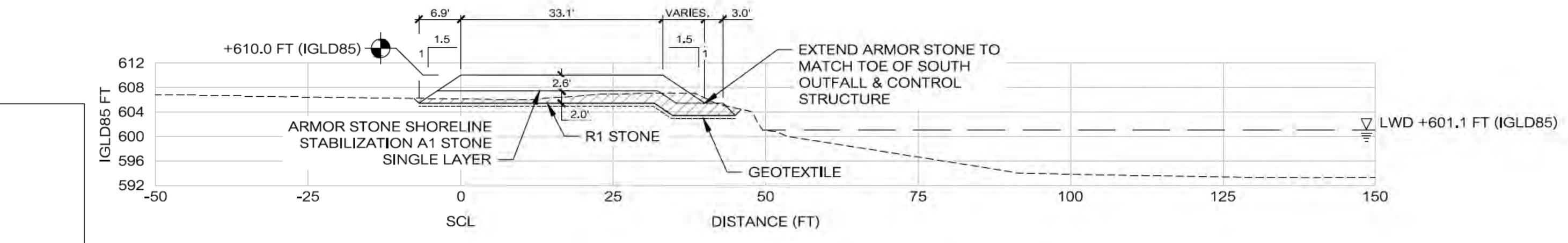
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES



F3 / C-304 **FOREDUNE REINFORCEMENT CROSS-SECTION - 5+57 TO 7+95**
SCALE = 1:10



F6 / C-304 **FOREDUNE REINFORCEMENT CROSS-SECTION - STA 3+22 TO 5+57 AND 7+95 TO 9+27**
SCALE = 1:10



F9 / C-304 **ARMOR STONE SHORELINE STABILIZATION CROSS-SECTION - STA 9+27 TO 9+86**
SCALE = 1:10

LEGEND

EXCAVATION

0 10 20 FEET
SCALE = 1:10

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY		(B) DESIGN		(C) PERMIT			(D) TENDER		(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	--	2022-02-21								

PREPARED FOR: City of Marquette, Michigan

Superior Watershed Partnership and Land Conservancy

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

DESIGN SECTIONS - FOREDUNE REINFORCEMENT

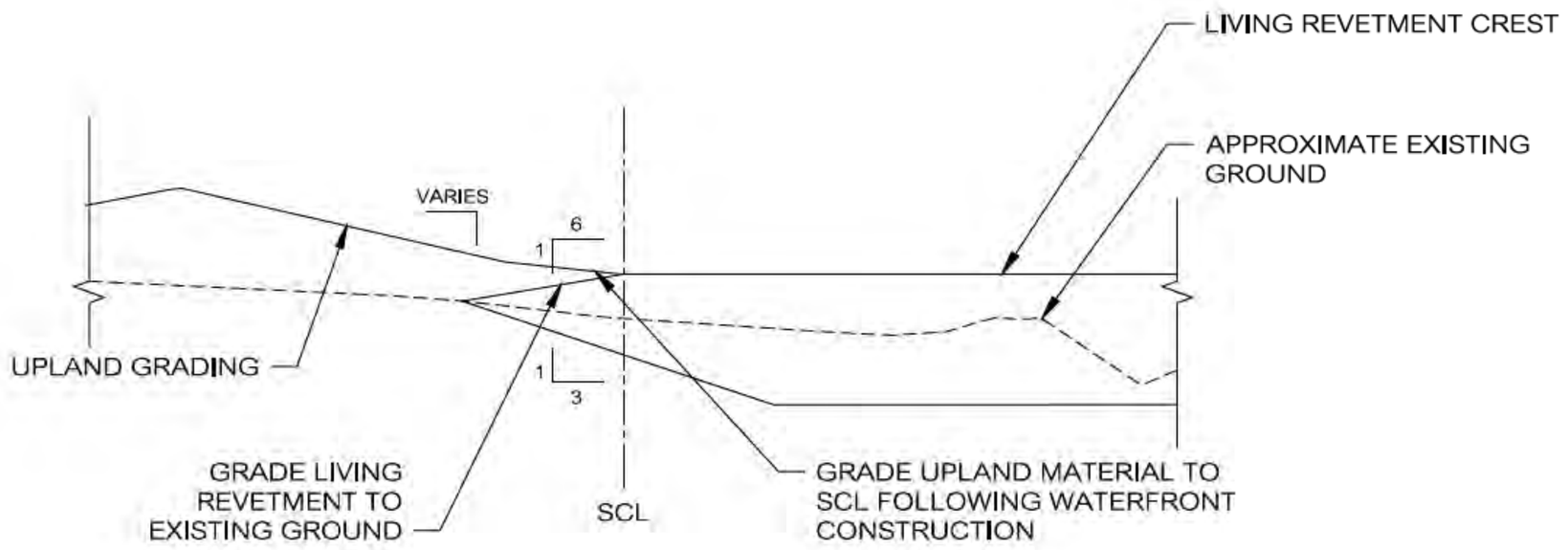
ISSUE NUMBER: 1 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: C-304

PROJECT NUMBER: 13290.101

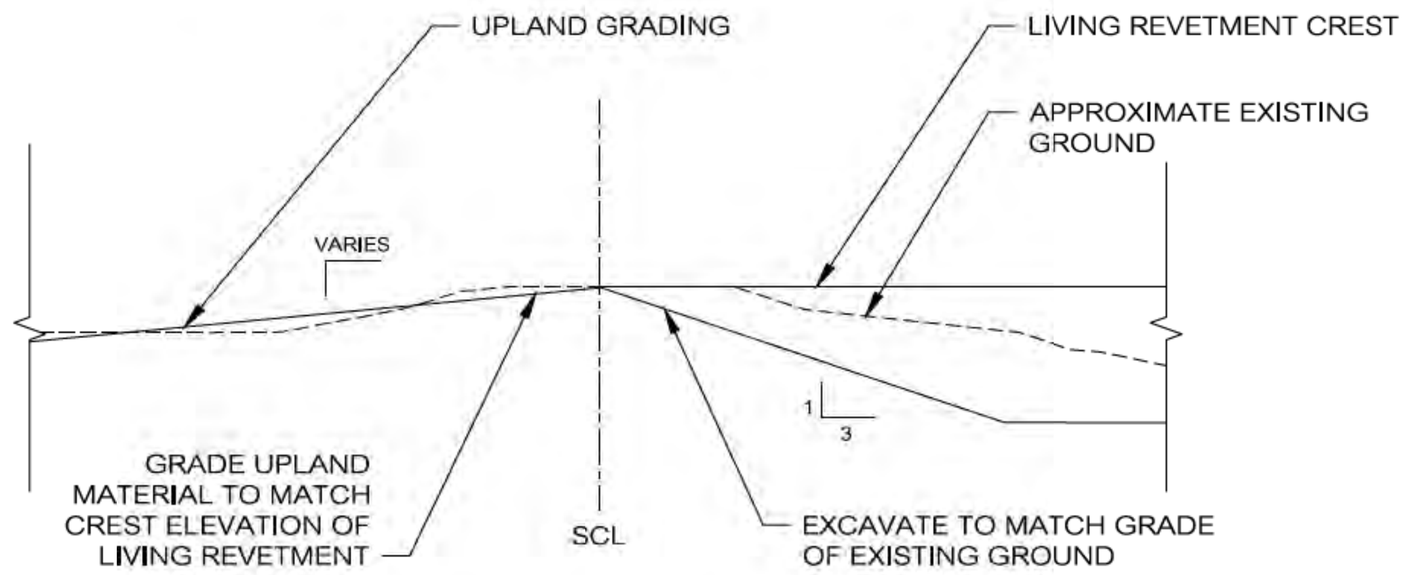
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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

City of Marquette, MI



A4 / C-501 **WATERFRONT-UPLAND INTERFACE ABOVE EXISTING GRADE**
SCALE = 1:5



H4 / C-501 **WATERFRONT-UPLAND INTERFACE BELOW EXISTING GRADE**
SCALE = 1:5

0 5 10 FEET
SCALE = 1:5

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JD	MJC	--	2022-02-21
D	2	REMOVED DETAILS IN LOWER HALF OF SHEET	MM	MJC	MJC	--	2023-11-21

PREPARED FOR: MARQUETTE MICHIGAN — FOUNDED 1849

SUPERIOR WATERSHED PARTNERSHIP & LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

WATERFRONT DETAILS (SHEET 1 OF 2)

ISSUE NUMBER: 2

ISSUE DATE: 2022-02-21

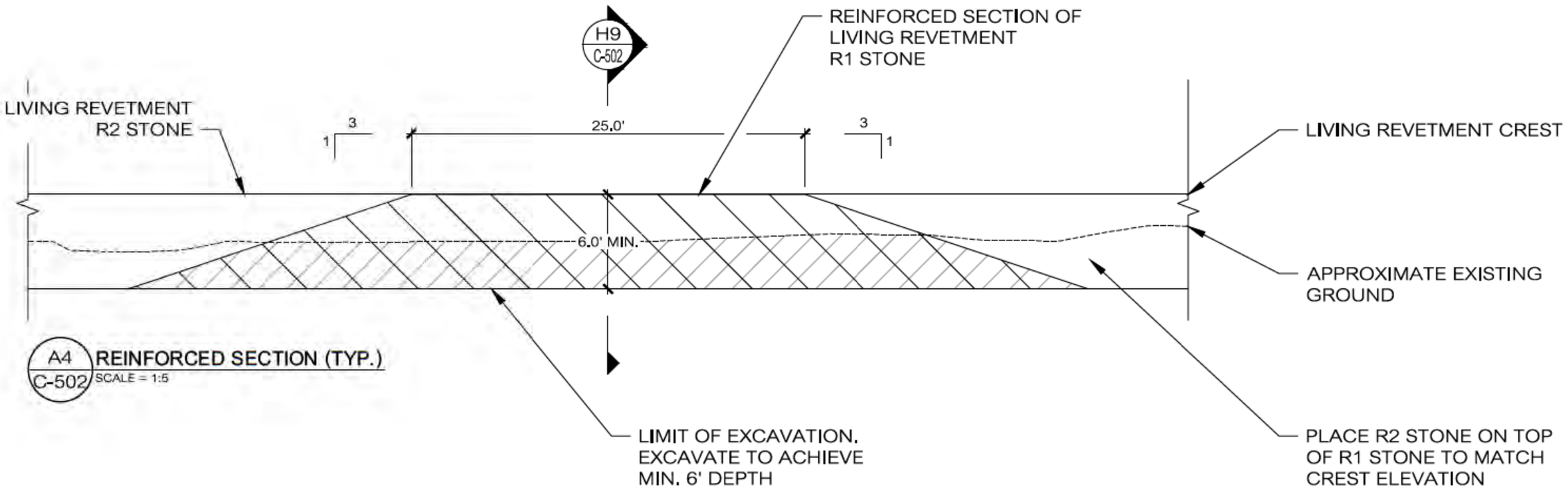
PROJECT NUMBER: 13290.101

SHEET NUMBER: C-501

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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

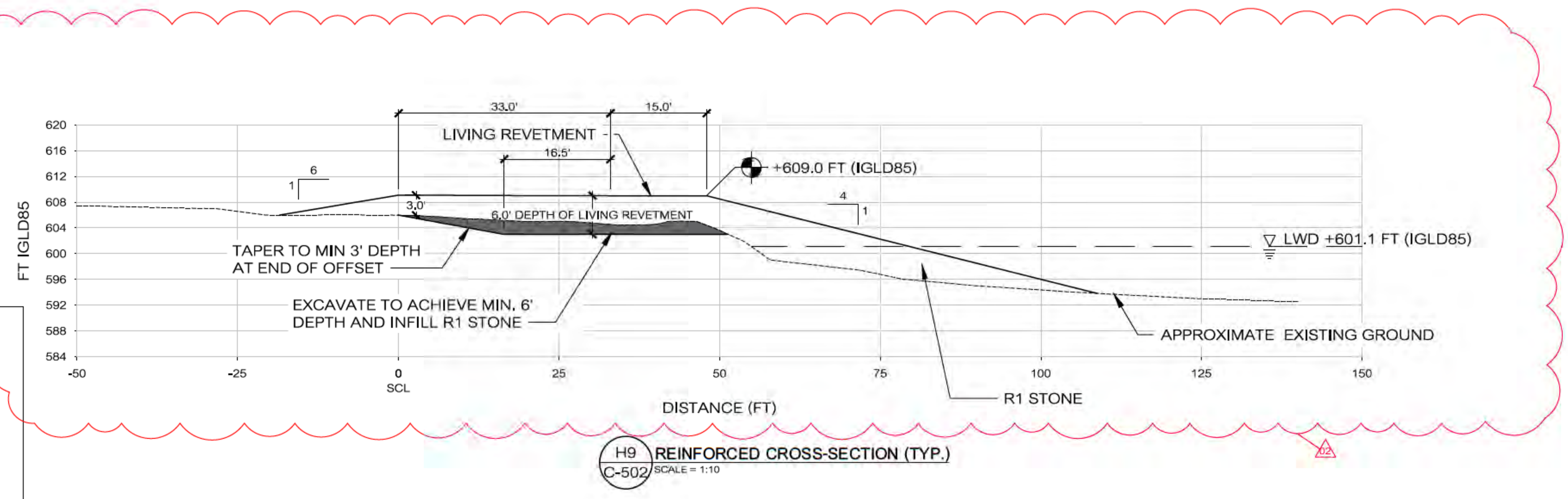
City of Marquette, MI



A4 C-502 **REINFORCED SECTION (TYP.)**
SCALE = 1:5

NOTES:
1. EXCAVATION IS NOT ALLOWED WATERWARD OF 602.6 FT (IGLD85)(EGLE OHWM) BETWEEN STA 19+00 AND STA 24+00.
2. FOR THE REINFORCED AREA AT STA 25+00, THE SLOPE OF THE R2 STONE SHOULD TRANSITION FROM 5:1 ON THE NORTH SIDE OF THE REINFORCED AREA TO 4:1 ON THE SOUTH SIDE OF THE REINFORCED AREA.

△2



H9 C-502 **REINFORCED CROSS-SECTION (TYP.)**
SCALE = 1:10

△2

LEGEND

EXCAVATION

REINFORCED SECTION

0 5 10 FEET
SCALE = 1:5

BID DOCUMENTS

REVISIONS

(PH)	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PRT	JD	MJC	--	2022-02-21
D	2	REVISED CROSS-SECTION AND NOTE ADDED	MM	MJC	MJC	--	2023-11-21

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

(PH)	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

WATERFRONT DETAILS (SHEET 2 OF 2)

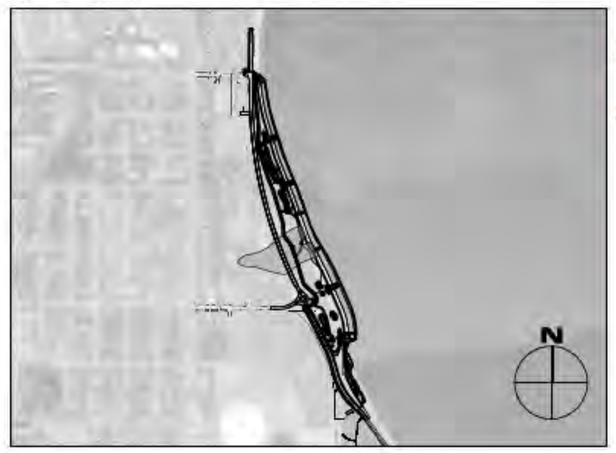
ISSUE NUMBER: 2
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: C-502

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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



PAY ITEMS (THIS SHEET)

	UNIT	QUANTITY
SILT FENCE	LF	~~2,192~~ 2,405
TURBIDITY CURTAIN	~~EA~~ LF	~~3~~ 10,200
EROSION CONTROL MAT	SY	~~49,442~~ 50,390
GRAVEL ACCESS APPROACH	EA	2
INLET PROTECTION	EA	2
DUST CONTROL	LS	1

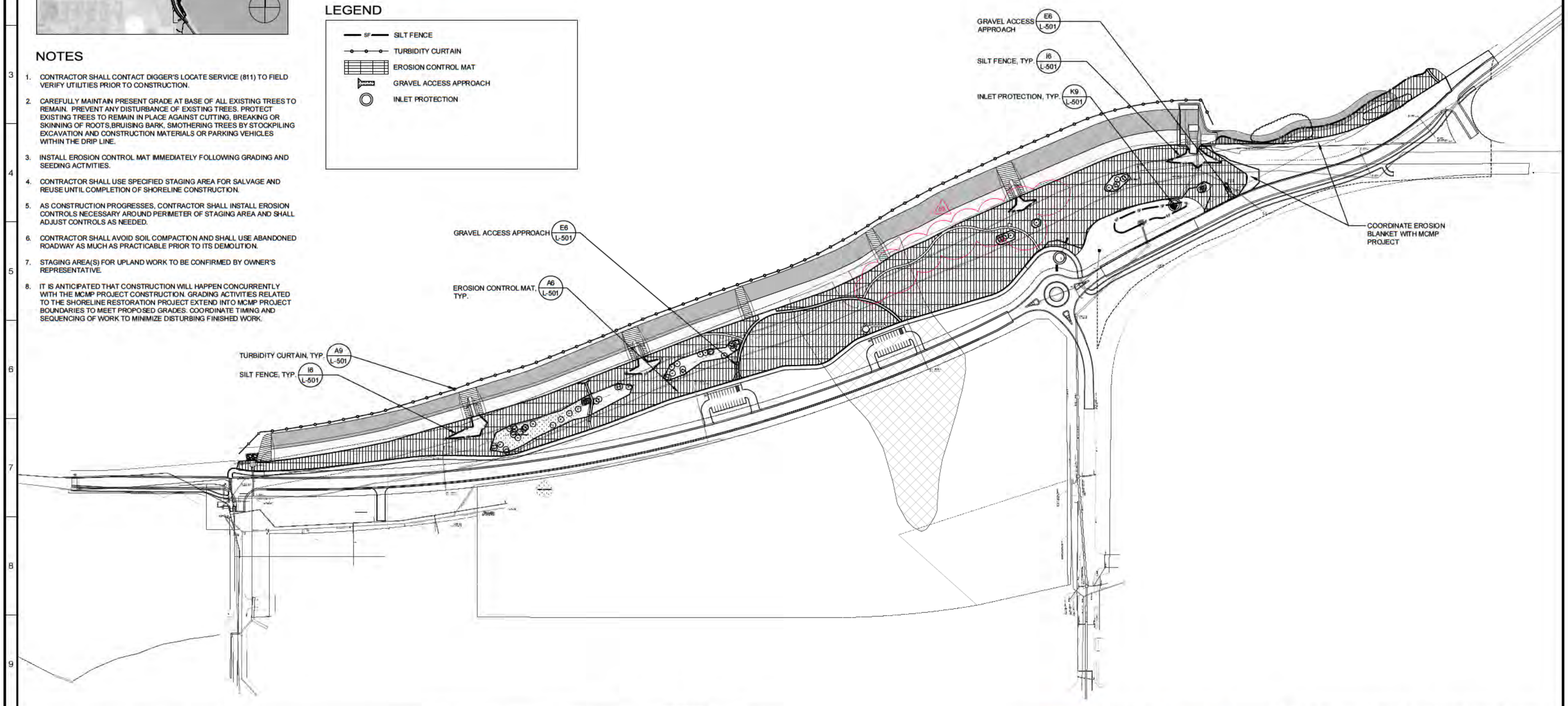
REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.

LEGEND

- SF — SILT FENCE
- TURBIDITY CURTAIN
- EROSION CONTROL MAT
- GRAVEL ACCESS APPROACH
- INLET PROTECTION

NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
2. CAREFULLY MAINTAIN PRESENT GRADE AT BASE OF ALL EXISTING TREES TO REMAIN. PREVENT ANY DISTURBANCE OF EXISTING TREES. PROTECT EXISTING TREES TO REMAIN IN PLACE AGAINST CUTTING, BREAKING OR SKINNING OF ROOTS,BRUISING BARK, SMOTHERING TREES BY STOCKPILING EXCAVATION AND CONSTRUCTION MATERIALS OR PARKING VEHICLES WITHIN THE DRIP LINE.
3. INSTALL EROSION CONTROL MAT IMMEDIATELY FOLLOWING GRADING AND SEEDING ACTIVITIES.
4. CONTRACTOR SHALL USE SPECIFIED STAGING AREA FOR SALVAGE AND REUSE UNTIL COMPLETION OF SHORELINE CONSTRUCTION.
5. AS CONSTRUCTION PROGRESSES, CONTRACTOR SHALL INSTALL EROSION CONTROLS NECESSARY AROUND PERIMETER OF STAGING AREA AND SHALL ADJUST CONTROLS AS NEEDED.
6. CONTRACTOR SHALL AVOID SOIL COMPACTION AND SHALL USE ABANDONED ROADWAY AS MUCH AS PRACTICABLE PRIOR TO ITS DEMOLITION.
7. STAGING AREA(S) FOR UPLAND WORK TO BE CONFIRMED BY OWNER'S REPRESENTATIVE.
8. IT IS ANTICIPATED THAT CONSTRUCTION WILL HAPPEN CONCURRENTLY WITH THE MCMP PROJECT CONSTRUCTION. GRADING ACTIVITIES RELATED TO THE SHORELINE RESTORATION PROJECT EXTEND INTO MCMP PROJECT BOUNDARIES TO MEET PROPOSED GRADES. COORDINATE TIMING AND SEQUENCING OF WORK TO MINIMIZE DISTURBING FINISHED WORK.



0 150 300 FEET
SCALE: 1"= 150'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2022-02-21
D	2	REVISED PAY ITEM	-	-	PST	-	2022-04-08
D	3	ADDENDUM 6	SLL	SLL	MJO	RR	2022-11-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP and LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

EROSION CONTROL PLAN

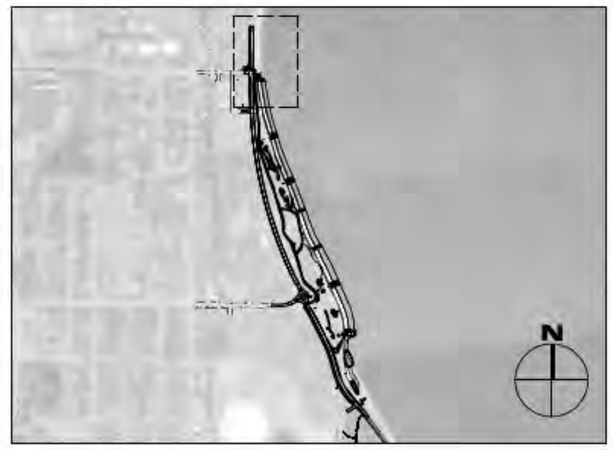
ISSUE NUMBER: –
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: L-101

P:\INDIGO ECOLOGICAL NAS\PROJECTS\23034 RES-SWP MARQUETTE\CAD\SHEETS\L-101 EROSION CONTROL PLAN.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

©by of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
2. CAREFULLY MAINTAIN PRESENT GRADE AT BASE OF ALL EXISTING TREES TO REMAIN. PREVENT ANY DISTURBANCE OF EXISTING TREES. PROTECT EXISTING TREES TO REMAIN IN PLACE AGAINST CUTTING, BREAKING OR SKINNING OF ROOTS, BRUISING BARK, SMOTHERING TREES BY STOCKPILING EXCAVATION AND CONSTRUCTION MATERIALS OR PARKING VEHICLES WITHIN THE DRIP LINE.
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4. FINISH GRADES SHALL MEET EXISTING GRADES AT LIMIT OF WORK.
5. MEET EXISTING GRADES AT ALL CULVERT OUTFALLS AND PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
6. ALL PEDESTRIAN TRAILS AND WALKWAYS SHALL HAVE A LONGITUDINAL SLOPE LESS THAN 5% AND A CROSS SLOPE LESS THAN 2%.
7. REFERENCE SOILS PLAN ON SHEET L-107 FOR SAND AND TOPSOIL DEPTHS FOR SUBGRADE ELEVATIONS.
8. EXISTING ARMORING WITH STEEL REINFORCEMENT TO BE DISPOSED OF OFF-SITE.

LEGEND

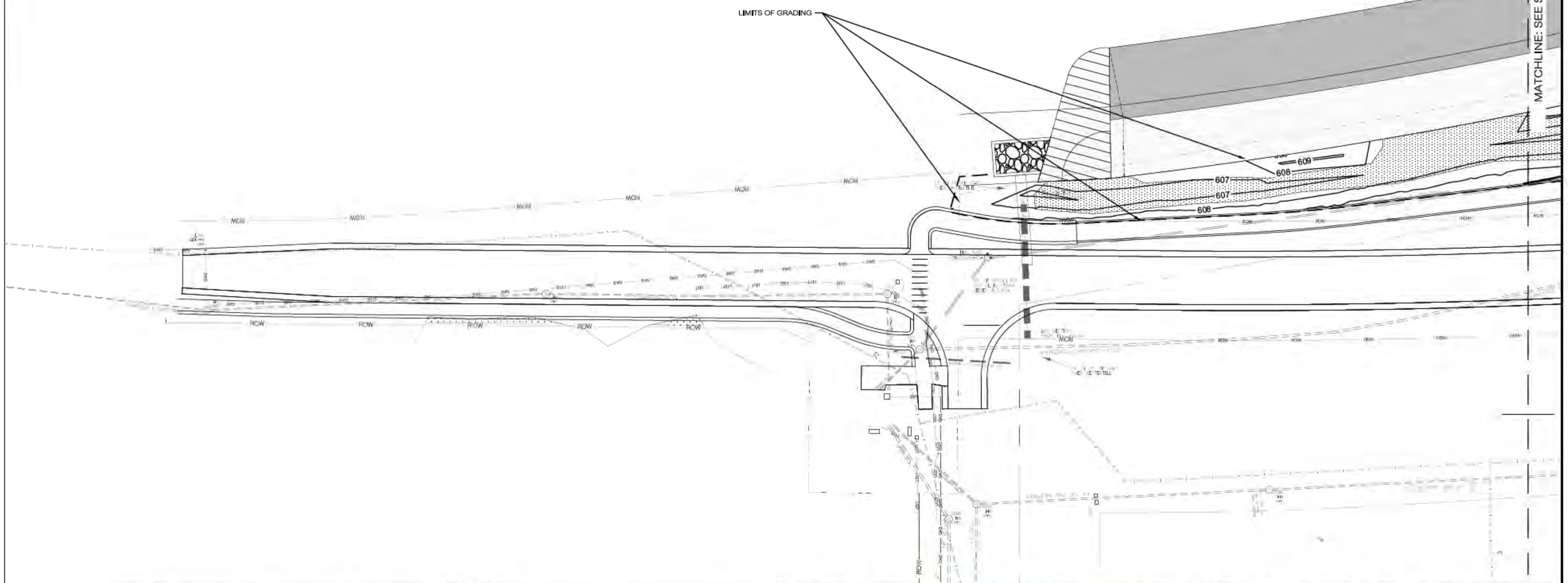
- PROJECT BOUNDARY
- LIMITS OF GRADING
- 610 EXISTING MAJOR CONTOUR
- 609 EXISTING MINOR CONTOUR
- 610 PROPOSED MAJOR CONTOUR
- 609 PROPOSED MINOR CONTOUR
- EXCAVATION AREA
- + 607.50 SPOT ELEVATION
- + ME MATCH EXISTING GRADE

PAY ITEMS
(TOTAL ALL GRADING SHEETS)

	UNIT	QUANTITY
UPLAND EXCAVATION - SUITABLE MATERIAL	CY	~~10,846~~ ~~9,122~~ 8,883
CLEAN FILL ~~(COORDINATE WITH MCMP PROJECT ON-SITE SOIL)~~	CY	~~2,584~~ ~~12,345~~ 8,883
IMPORTED FILL (IN EXCESS OF AVAILABLE ON-SITE SOIL)	CY	4,641
FINE GRADING	AC	~~10,19~~ 10,44
BEACH WALK	LF	55

02 03

03 REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.



0 40 80 FEET
SCALE: 1"= 40'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2022-02-21
D	2	REVISED PAY ITEM	-	-	PST	-	2022-04-05
D	3	ADDENDUM 6	SLL	SLL	MJO	RR	2022-11-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: MARQUETTE MICHIGAN FOUNDED 1849

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

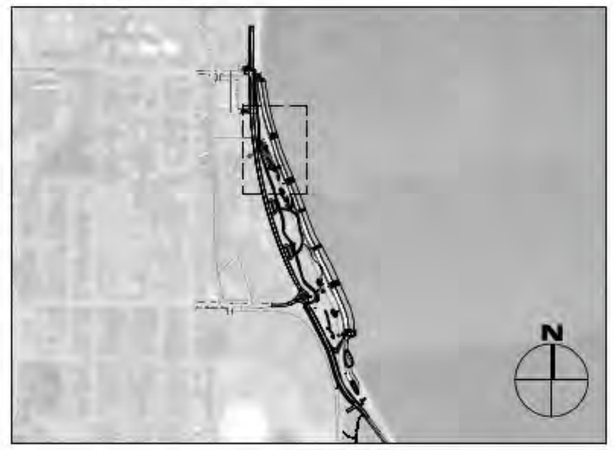
GRADING PLAN (SHEET 1 OF 5)

ISSUE NUMBER:	ISSUE DATE:	SHEET NUMBER:
—	2022-02-21	L-102

PROJECT NUMBER: 13290.101

©City of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
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7. REFERENCE SOILS PLAN ON SHEET L-107 FOR SAND AND TOPSOIL DEPTHS FOR SUBGRADE ELEVATIONS.
8. EXISTING ARMORING WITH STEEL REINFORCEMENT TO BE DISPOSED OF OFF-SITE.

LEGEND

- PROJECT BOUNDARY
- LIMITS OF GRADING
- 610 EXISTING MAJOR CONTOUR
- 609 EXISTING MINOR CONTOUR
- 610 PROPOSED MAJOR CONTOUR
- 609 PROPOSED MINOR CONTOUR
- EXCAVATION AREA
- + 607.50 SPOT ELEVATION
- + ME MATCH EXISTING GRADE

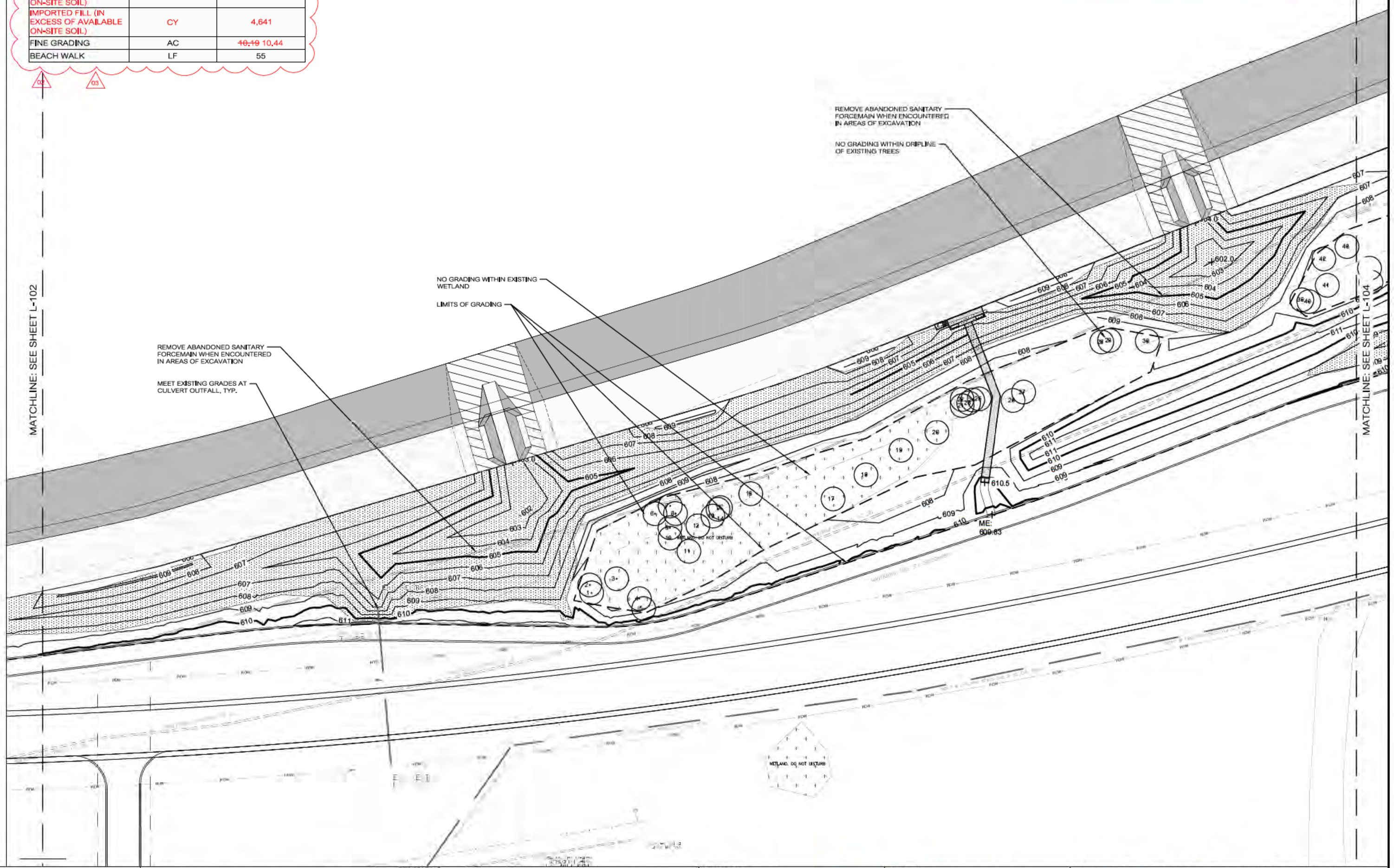
PAY ITEMS
(TOTAL ALL GRADING SHEETS)

	UNIT	QUANTITY
UPLAND EXCAVATION - SUITABLE MATERIAL	CY	~~10,846~~ ~~9,122~~ 8,883
CLEAN FILL ~~(COORDINATE WITH MCMP PROJECT ON-SITE SOIL)~~	CY	~~2,584~~ ~~12,345~~ 8,883
IMPORTED FILL (IN EXCESS OF AVAILABLE ON-SITE SOIL)	CY	4,641
FINE GRADING	AC	~~10,19~~ 10,44
BEACH WALK	LF	55

02 03

REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.

13



0 40 80 FEET
SCALE: 1"= 40'

2

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
(A) PRELIMINARY							
(B) DESIGN	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-02-21
(C) PERMIT	2	REVISED PAY ITEM	-	-	PST	-	2023-04-05
(D) TENDER	3	ADDENDUM 6	SLL	SLL	MJO	RR	2023-11-21
(E) CONSTRUCTION							
(F) RECORD							

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

GRADING PLAN (SHEET 2 OF 5)

ISSUE NUMBER: -

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

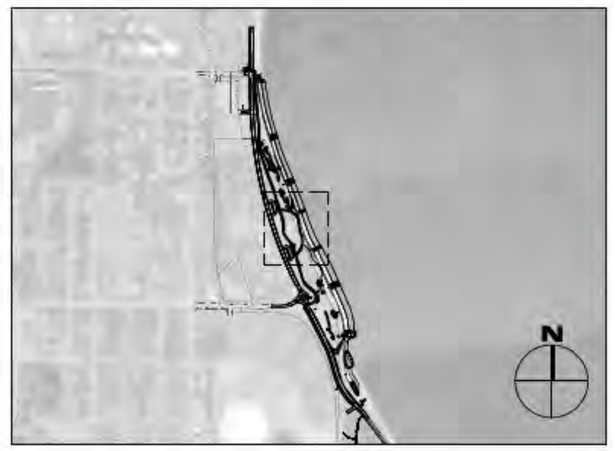
SHEET NUMBER: L-103

P:\NEGO ECOLOGICAL NAS\PROJECTS\2024 RES-GWP MARQUETTE\CAD\SHEETS\L-103 GRADING PLAN2.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

©City of Marquette, MI

KEY MAP



NOTES

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7. REFERENCE SOILS PLAN ON SHEET L-107 FOR SAND AND TOPSOIL DEPTHS FOR SUBGRADE ELEVATIONS.
8. EXISTING ARMORING WITH STEEL REINFORCEMENT TO BE DISPOSED OF OFF-SITE.

LEGEND

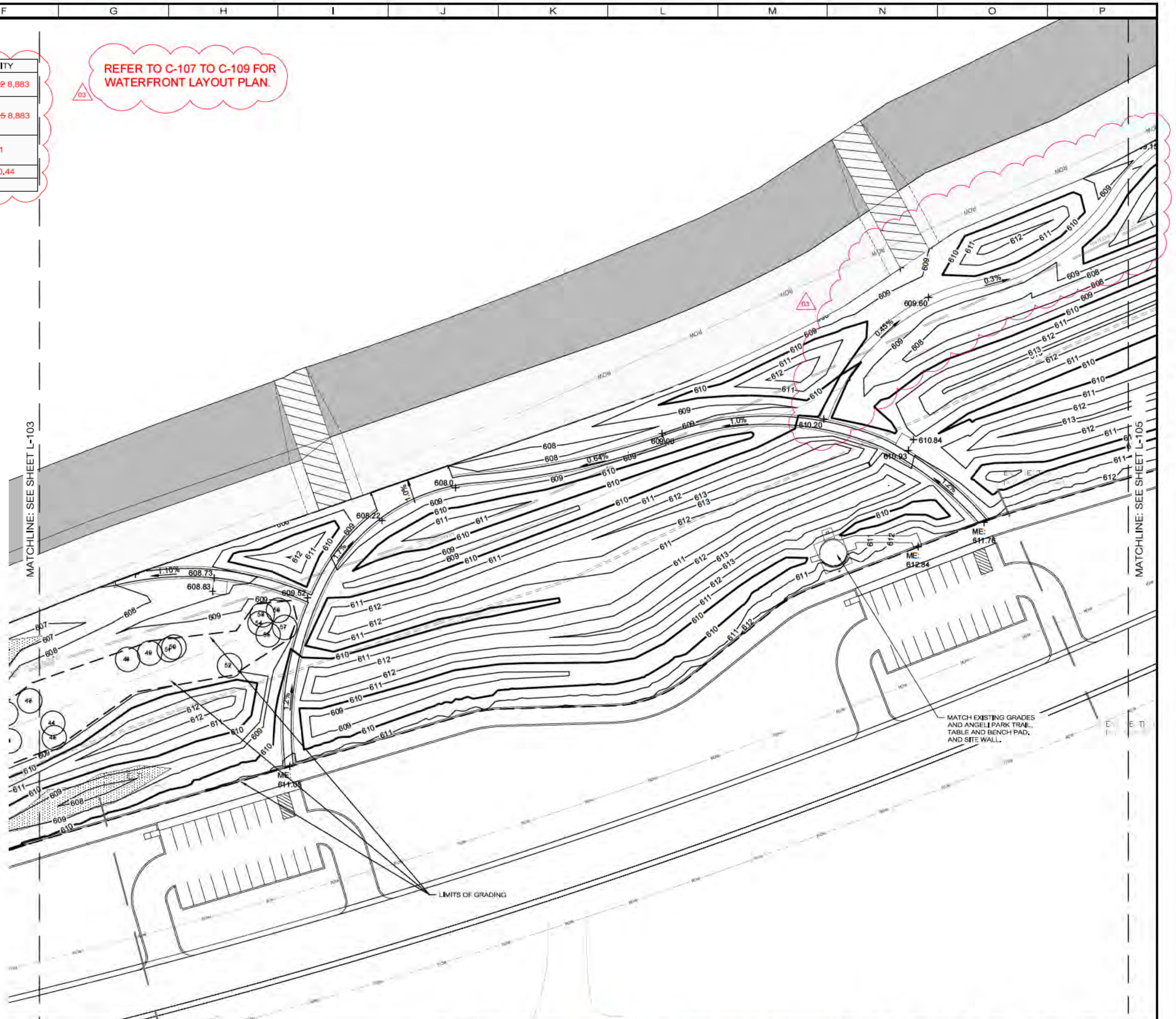
- PROJECT BOUNDARY
- LIMITS OF GRADING
- 610 EXISTING MAJOR CONTOUR
- 609 EXISTING MINOR CONTOUR
- 610 PROPOSED MAJOR CONTOUR
- 609 PROPOSED MINOR CONTOUR
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- + ME MATCH EXISTING GRADE

PAY ITEMS
(TOTAL ALL GRADING SHEETS)

	UNIT	QUANTITY
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IMPORTED FILL (IN EXCESS OF AVAILABLE ON-SITE SOIL)	CY	4,641
FINE GRADING	AC	~~10,19~~ 10,44
BEACH WALK	LF	55

02 03

03 REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.



0 40 80 FEET
SCALE: 1"= 40'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

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D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-02-21
D	2	REVISED PAY ITEM	-	-	PST	-	2023-04-05
D	3	ADDENDUM 6	SLL	SLL	MJO	RR	2023-11-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

GRADING PLAN (SHEET 3 OF 5)

ISSUE NUMBER: -
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: L-104

P:\NEGO ECOLOGICAL NAS\PROJECTS\2024 RES-SWP MARQUETTE\CAD\SHEETS\L-101 GRADING PLAN.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
2. CAREFULLY MAINTAIN PRESENT GRADE AT BASE OF ALL EXISTING TREES TO REMAIN. PREVENT ANY DISTURBANCE OF EXISTING TREES. PROTECT EXISTING TREES TO REMAIN IN PLACE AGAINST CUTTING, BREAKING OR SKINNING OF ROOTS, BRUISING BARK, SMOTHERING TREES BY STOCKPILING EXCAVATION AND CONSTRUCTION MATERIALS OR PARKING VEHICLES WITHIN THE DRIP LINE.
3. GRADES SHALL SLOPE TO DRAIN, BE FREE OF DEPRESSIONS OR OTHER IRREGULARITIES AFTER COMPACTION OF SOIL AND INSTALLATION OF PAVEMENT, AND SHALL BE UNIFORM IN SLOPE BETWEEN THE ELEVATIONS INDICATED.
4. FINISH GRADES SHALL MEET EXISTING GRADES AT LIMIT OF WORK.
5. MEET EXISTING GRADES AT ALL CULVERT OUTFALLS AND PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
6. ALL PEDESTRIAN TRAILS AND WALKWAYS SHALL HAVE A LONGITUDINAL SLOPE LESS THAN 5% AND A CROSS SLOPE LESS THAN 2%.
7. REFERENCE SOILS PLAN ON SHEET L-107 FOR SAND AND TOPSOIL DEPTHS FOR SUBGRADE ELEVATIONS.
8. EXISTING ARMORING WITH STEEL REINFORCEMENT TO BE DISPOSED OF OFF-SITE.

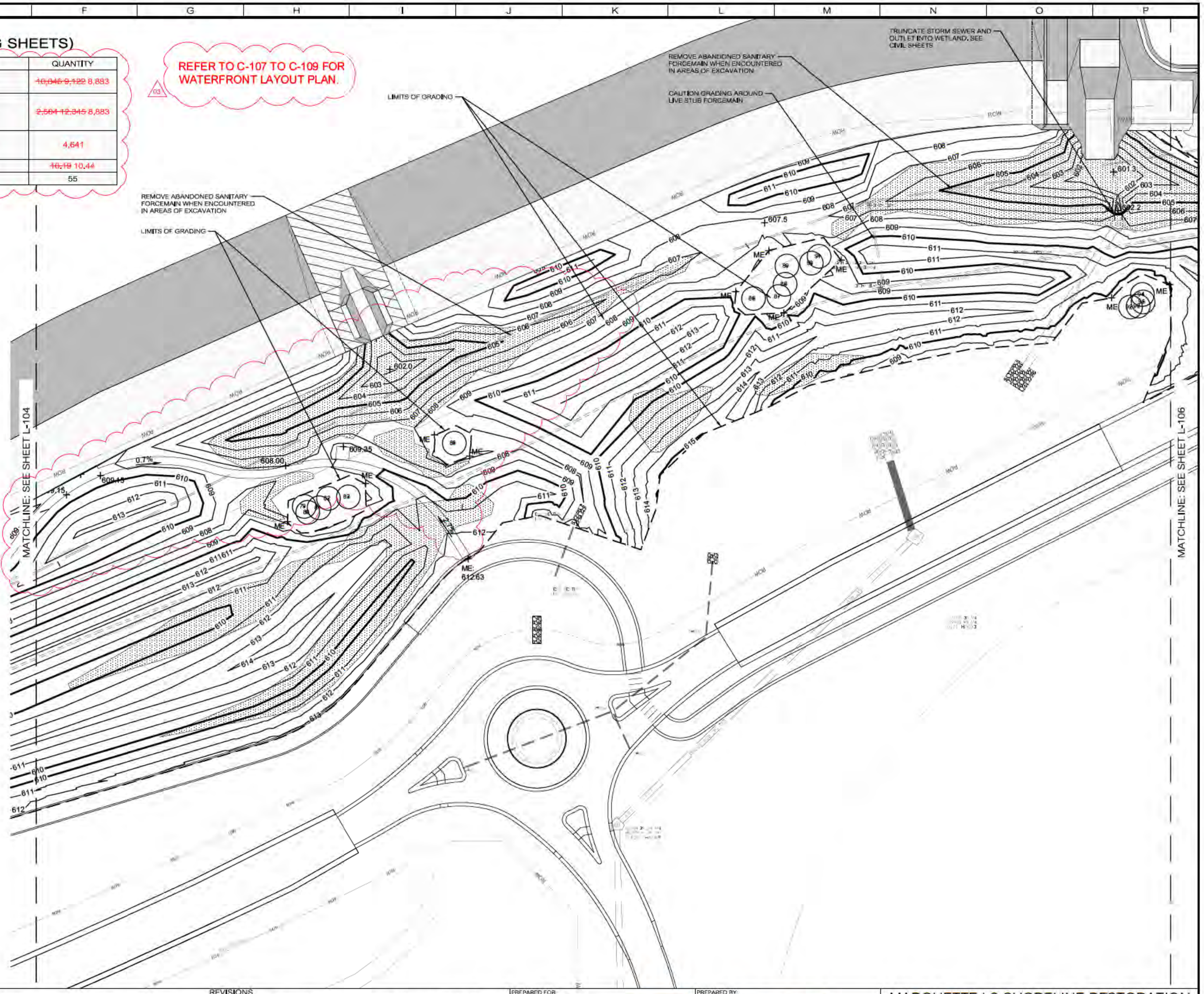
PAY ITEMS
(TOTAL ALL GRADING SHEETS)

	UNIT	QUANTITY
UPLAND EXCAVATION - SUITABLE MATERIAL	CY	~~10,046 9,122~~ 8,883
CLEAN FILL ~~(COORDINATE WITH MCMP PROJECT ON-SITE SOIL)~~	CY	~~2,504 12,345~~ 8,883
IMPORTED FILL (IN EXCESS OF AVAILABLE ON-SITE SOIL)	CY	4,641
FINE GRADING	AC	~~10.19~~ 10.44
BEACH WALK	LF	55

02 03

REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.

02



LEGEND

- PROJECT BOUNDARY
- LIMITS OF GRADING
- 610 EXISTING MAJOR CONTOUR
- 609 EXISTING MINOR CONTOUR
- 610 PROPOSED MAJOR CONTOUR
- 609 PROPOSED MINOR CONTOUR
- EXCAVATION AREA
- + 607.50 SPOT ELEVATION
- + ME MATCH EXISTING GRADE

0 40 80 FEET
SCALE: 1"= 40'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2021-10-21
D	2	REVISED PAY ITEM	-	-	PST	-	2022-04-05
D	3	ADDENDUM 6	SLL	SLL	MJO	RR	2021-11-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

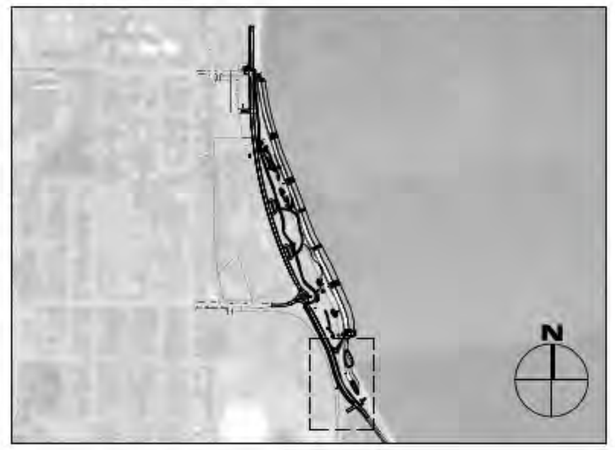
GRADING PLAN (SHEET 4 OF 5)

ISSUE NUMBER: —
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: L-105

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

©by of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
2. CAREFULLY MAINTAIN PRESENT GRADE AT BASE OF ALL EXISTING TREES TO REMAIN. PREVENT ANY DISTURBANCE OF EXISTING TREES. PROTECT EXISTING TREES TO REMAIN IN PLACE AGAINST CUTTING, BREAKING OR SKINNING OF ROOTS, BRUISING BARK, SMOTHERING TREES BY STOCKPILING EXCAVATION AND CONSTRUCTION MATERIALS OR PARKING VEHICLES WITHIN THE DRIP LINE.
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7. REFERENCE SOILS PLAN ON SHEET L-107 FOR SAND AND TOPSOIL DEPTHS FOR SUBGRADE ELEVATIONS.
8. EXISTING ARMORING WITH STEEL REINFORCEMENT TO BE DISPOSED OF OFF-SITE.
8. IT IS ANTICIPATED THAT CONSTRUCTION WILL HAPPEN CONCURRENTLY WITH THE MCMP PROJECT CONSTRUCTION. GRADING ACTIVITIES RELATED TO THE SHORELINE RESTORATION PROJECT EXTEND INTO MCMP PROJECT BOUNDARIES TO MEET PROPOSED GRADES. COORDINATE TIMING AND SEQUENCING OF WORK TO MINIMZE DISTURBING FINISHED WORK.

PAY ITEMS
(TOTAL ALL GRADING SHEETS)

	UNIT	QUANTITY
UPLAND EXCAVATION - SUITABLE MATERIAL	CY	~~10,846~~ ~~9,122~~ 8,883
CLEAN FILL ~~(COORDINATE WITH MCMP PROJECT ON-SITE SOIL)~~	CY	~~2,584~~ ~~12,345~~ 8,883
IMPORTED FILL (IN EXCESS OF AVAILABLE ON-SITE SOIL)	CY	4,641
FINE GRADING	AC	~~10,19~~ 10,44
BEACH WALK	LF	55

△02 △03

△13 REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.

55 LF ROLL OUT BEACH WALK TO BE LAID OUT IN FIELD BY OWNER (I5 / L-502)

MATCHLINE: SEE SHEET L-105

SEE CIVIL SHEETS FOR SHORELINE DUNE DESIGN

REMOVE ABANDONED SANITARY FORCEMAIN WHEN ENCOUNTERED IN AREAS OF EXCAVATION

COORDINATE GRADING AND EXCAVATION WITH THE MCMP PROJECT

LIMITS OF GRADING

MCMP PROJECT BOUNDARY

LEGEND

- PROJECT BOUNDARY
- LIMITS OF GRADING
- 610 EXISTING MAJOR CONTOUR
- 609 EXISTING MINOR CONTOUR
- 610 PROPOSED MAJOR CONTOUR
- 609 PROPOSED MINOR CONTOUR
- EXCAVATION AREA
- + 607.50 SPOT ELEVATION
- + ME MATCH EXISTING GRADE

0 40 80 FEET
SCALE: 1"= 40'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH)	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2022-02-21
D	2	REVISED PAY ITEM	-	-	PBT	-	2022-04-08
D	3	ADDENDUM 5	SLL	SLL	MJO	RR	2022-11-21

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

GRADING PLAN (SHEET 5 OF 5)

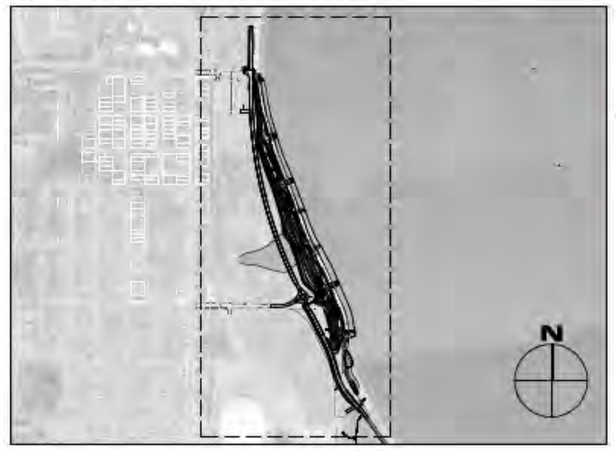
ISSUE NUMBER: –
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: L-106

P:\NOBGO ECOLOGICAL NAS\PROJECTS\23634 RES-GWP MARQUETTE\CAD\SHEETS\L-106 GRADING PLAN.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
2. CAREFULLY MAINTAIN PRESENT GRADE AT BASE OF ALL EXISTING TREES TO REMAIN. PREVENT ANY DISTURBANCE OF EXISTING TREES. PROTECT EXISTING TREES TO REMAIN IN PLACE AGAINST CUTTING, BREAKING OR SKINNING OF ROOTS, BRUISING BARK, SMOTHERING TREES BY STOCKPILING EXCAVATION AND CONSTRUCTION MATERIALS OR PARKING VEHICLES WITHIN THE DRIP LINE.
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PAY ITEMS (THIS SHEET)

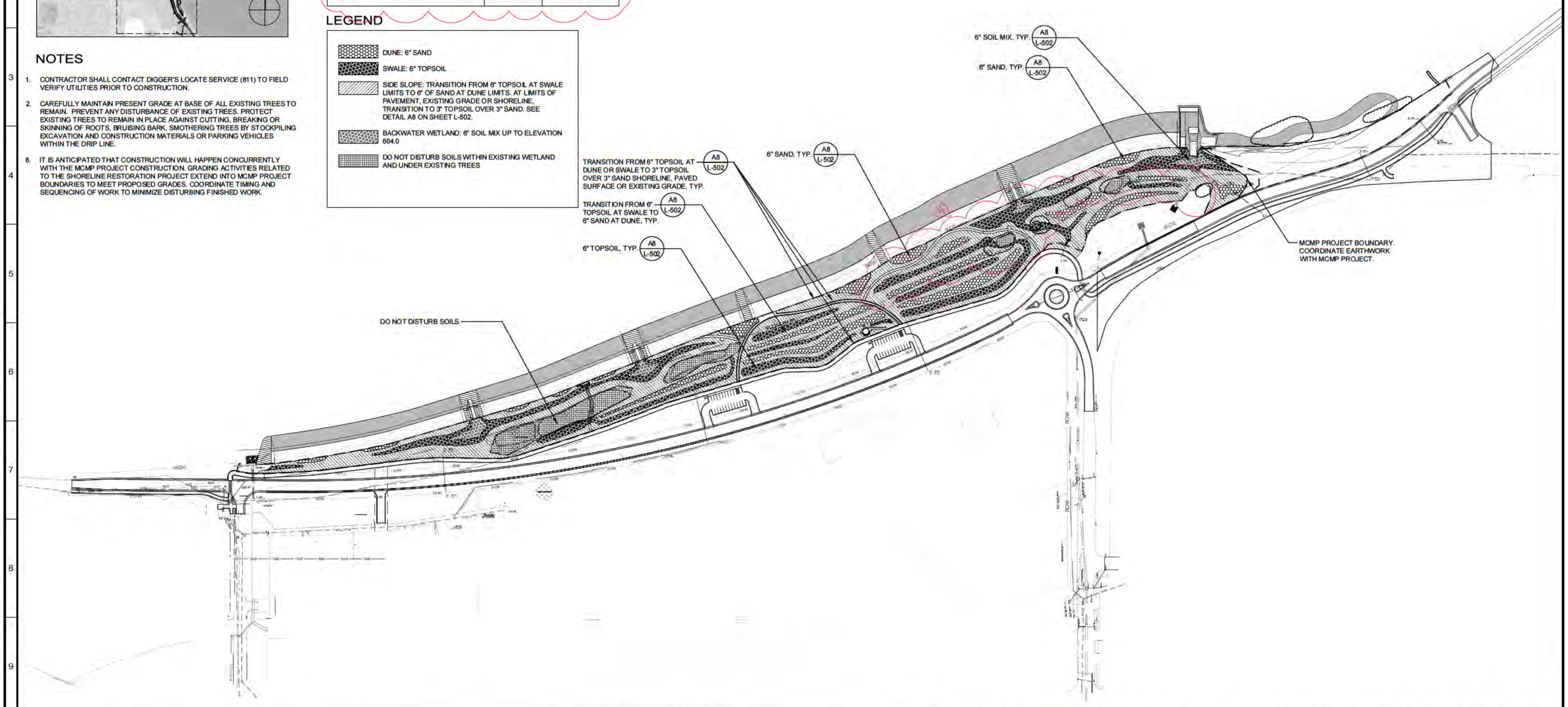
	UNIT	QUANTITY
SAND FOR DUNE (6" DEPTH)	CY	~~1,198~~ 1,252
SAND FOR SIDE SLOPES (AVG. 3" DEPTH)	CY	~~2,435~~ 2,393
TOPSOIL FOR SIDE SLOPES (AVG. 3" DEPTH)	CY	~~2,435~~ 2,393
TOPSOIL FOR SWALES (6" DEPTH)	CY	~~1,730~~ 1,788
SOIL MIX FOR BACKWATER WETLAND AREAS (6" DEPTH)	CY	~~177~~ 207

02

LEGEND

- DUNE: 6" SAND
- SWALE: 6" TOPSOIL
- SIDE SLOPE: TRANSITION FROM 6" TOPSOIL AT SWALE LIMITS TO 6" OF SAND AT DUNE LIMITS. AT LIMITS OF PAVEMENT, EXISTING GRADE OR SHORELINE, TRANSITION TO 3" TOPSOIL OVER 3" SAND. SEE DETAIL A8 ON SHEET L-502.
- BACKWATER WETLAND: 6" SOIL MIX UP TO ELEVATION 604.0
- DO NOT DISTURB SOILS WITHIN EXISTING WETLAND AND UNDER EXISTING TREES

02 REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.



0 150 300 FEET
SCALE: 1"= 150'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-02-01
D	2	ADDENDUM 6	SLL	SLL	MJO	RR	2023-11-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.
IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION
SOILS PLAN

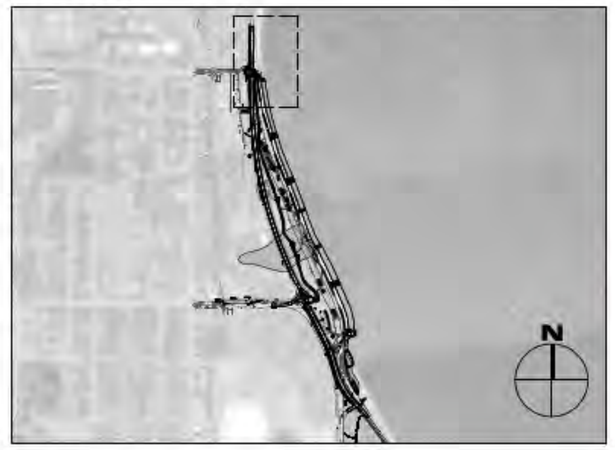
ISSUE NUMBER: –
ISSUE DATE: 2022-02-21
SHEET NUMBER: L-107
PROJECT NUMBER: 13290.101

P:\INDIGO ECOLOGICAL NAS\PROJECTS\23034 RES-SWP MARQUETTE\CAD\SHEETS\L-401 SOILS PLAN.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

©City of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SHEETS L-503, L-504, AND L-505 FOR PLANTING DETAILS, SEED SCHEDULES, AND PLANT SCHEDULE. 02
3. PLACE EROSION MAT IMMEDIATELY AFTER SEED PLACEMENT.
4. INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".
5. PRIOR TO INSTALLATION, DEMARCATE LAYOUT OF ALL SEED AREAS, AND INDIVIDUAL TREES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
6. SEEDING APPLIES TO ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES EVEN IF ACTIVITIES EXTEND BEYOND THE APPROXIMATED SEEDING LIMITS INDICATED ON THE DRAWINGS. REPAIR ANY DISTURBED AREAS TO THE SAME CONDITION AS ORIGINALLY FOUND AND TO THE OWNER'S SATISFACTION.
7. MINIMIZE CULTIVATION WITHIN THE DRIPLINES OF EXISTING TREES. PREPARE SOIL FOR SEEDING BY MINIMIZING DISTURBANCE TO 4-INCH DEPTH. HAND CULTIVATE WHEN ENCOUNTERING ROOTS. NO HEAVY EQUIPMENT ALLOWED WITHIN DRIPLINE OF EXISTING TREES.
8. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE.
9. SEE DETAIL J8 ON SHEET L-503 FOR EXAMPLE PLANTING PLAN OF PERENNIAL PLUGS AND SHRUBS. 02

LEGEND

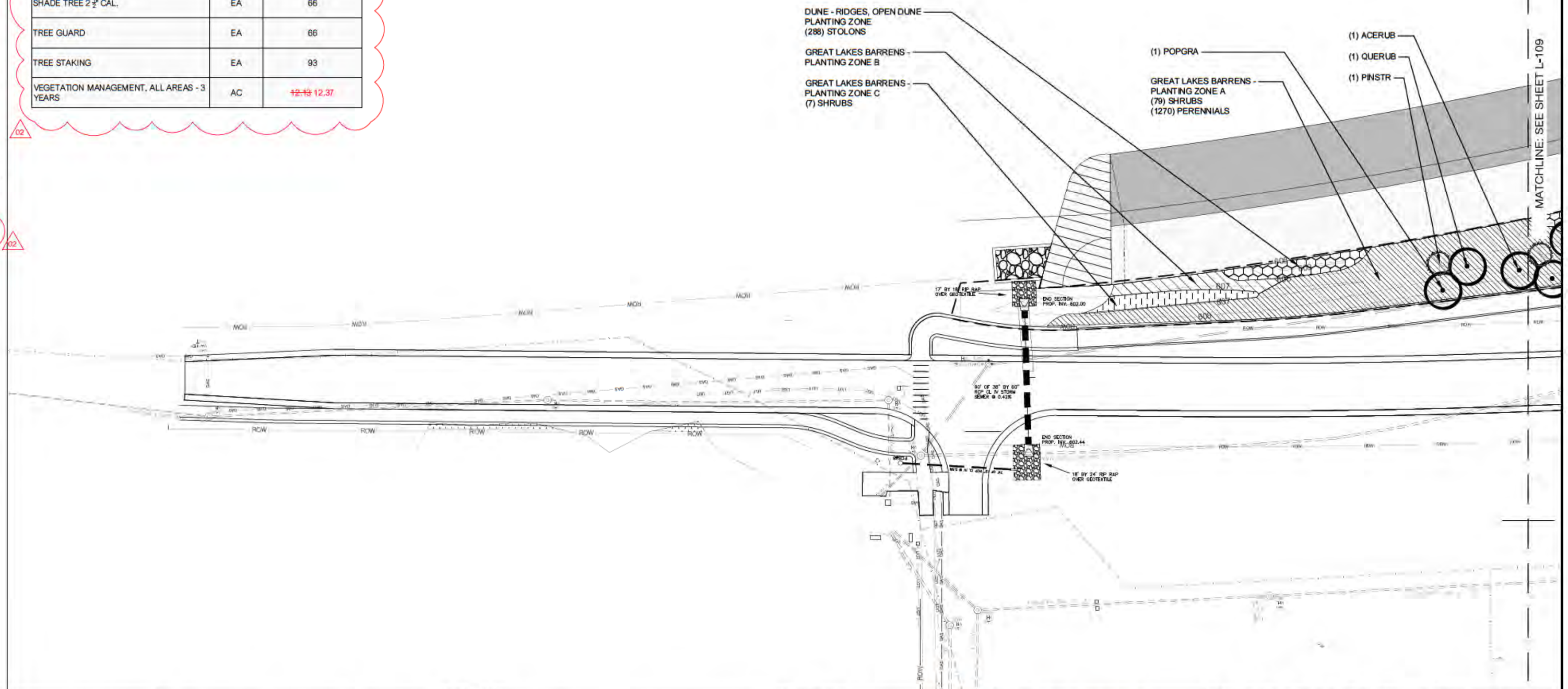
- DUNE - RIDGES, OPEN DUNE:
  - DUNE SEED MIX
  - MARRAM GRASS (STOLONS) @ 24" O.C.
- GREAT LAKES BARRENS - PLANTING ZONE A:
  - GREAT LAKES BARRENS SEED MIX A
  - GREAT LAKES BARRENS SHRUBS CLUSTERED IN GROUPS OF 3-7
  - PLUGS @ 5' O.C.
- GREAT LAKES BARRENS - PLANTING ZONE B:
  - GREAT LAKES BARRENS SEED MIX B
- GREAT LAKES BARRENS - PLANTING ZONE C:
  - GREAT LAKES BARRENS SEED MIX C
  - GREAT LAKES BARRENS SHRUBS CLUSTERED IN GROUPS OF 3-7
- GREAT LAKES MARSH:
  - GREAT LAKES MARSH SEED MIX
  - GREAT LAKES MARSH SHRUBS CLUSTERED IN GROUPS OF 3-7
  - GREAT LAKES MARSH PLUGS @ 5' O.C.
- EMERGENT PLUGS @ 24" O.C.
- EXISTING HERBACEOUS GROUNDCOVER MANAGEMENT
- .62 EXISTING TREE
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE

PAY ITEMS
(TOTAL ALL LANDSCAPE SHEETS)

	UNIT	QUANTITY
DUNE SEED MIX AND GREAT LAKES BARRENS SEED MIX A	AC	~~4.75~~ 4.81
GREAT LAKES BARRENS SEED MIX B	AC	~~3.55~~ 3.51
GREAT LAKES BARRENS SEED MIX C	AC	~~1.82~~ 1.55
GREAT LAKES MARSH SEED MIX	AC	~~0.83~~ 0.79
DUNE GRASS STOLONS	EA	~~25,542~~ 26,055
EMERGENT PLANT PLUGS	EA	1,716
PERENNIAL PLUGS	EA	~~6,710~~ 7,084
SHRUBS - 1 GAL.	EA	~~75~~ 79
SHRUBS - 3 GAL.	EA	~~343~~ 374
SHRUBS - 5 GAL.	EA	~~192~~ 210
EVERGREEN TREE - 6' HT.	EA	27
SHADE TREE 2 ½" CAL.	EA	66
TREE GUARD	EA	66
TREE STAKING	EA	93
VEGETATION MANAGEMENT, ALL AREAS - 3 YEARS	AC	~~12.13~~ 12.37

02

02 REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN.



0 40 80 FEET
SCALE: 1"= 40'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-02-21
D	2	ADDENDUM 6	SLL	SLL	MJO	RR	2023-11-21

PREPARED FOR: City of Marquette, Michigan; Superior Watershed Partnership and Land Conservancy

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

LANDSCAPE PLAN (SHEET 1 OF 5)

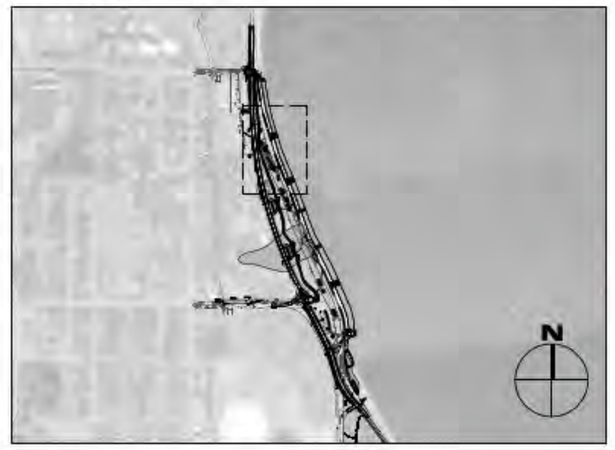
ISSUE NUMBER: —
ISSUE DATE: 2022-02-21
SHEET NUMBER: L-108
PROJECT NUMBER: 13290.101

P:\NDSG ECOLOGICAL NAS\PROJECTS\2304 RES-GWP MARQUETTE\CAD\SHEETS\L-108 LANDSCAPE PLAN.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

©City of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
2. SEE SHEETS L-503, L-504, AND L-505 FOR PLANTING DETAILS, SEED SCHEDULES, AND PLANT SCHEDULE. /02
3. PLACE EROSION MAT IMMEDIATELY AFTER SEED PLACEMENT.
4. INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".
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8. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE.
9. SEE DETAIL J8 ON SHEET L-503 FOR EXAMPLE PLANTING PLAN OF PERENNIAL PLUGS AND SHRUBS. /02

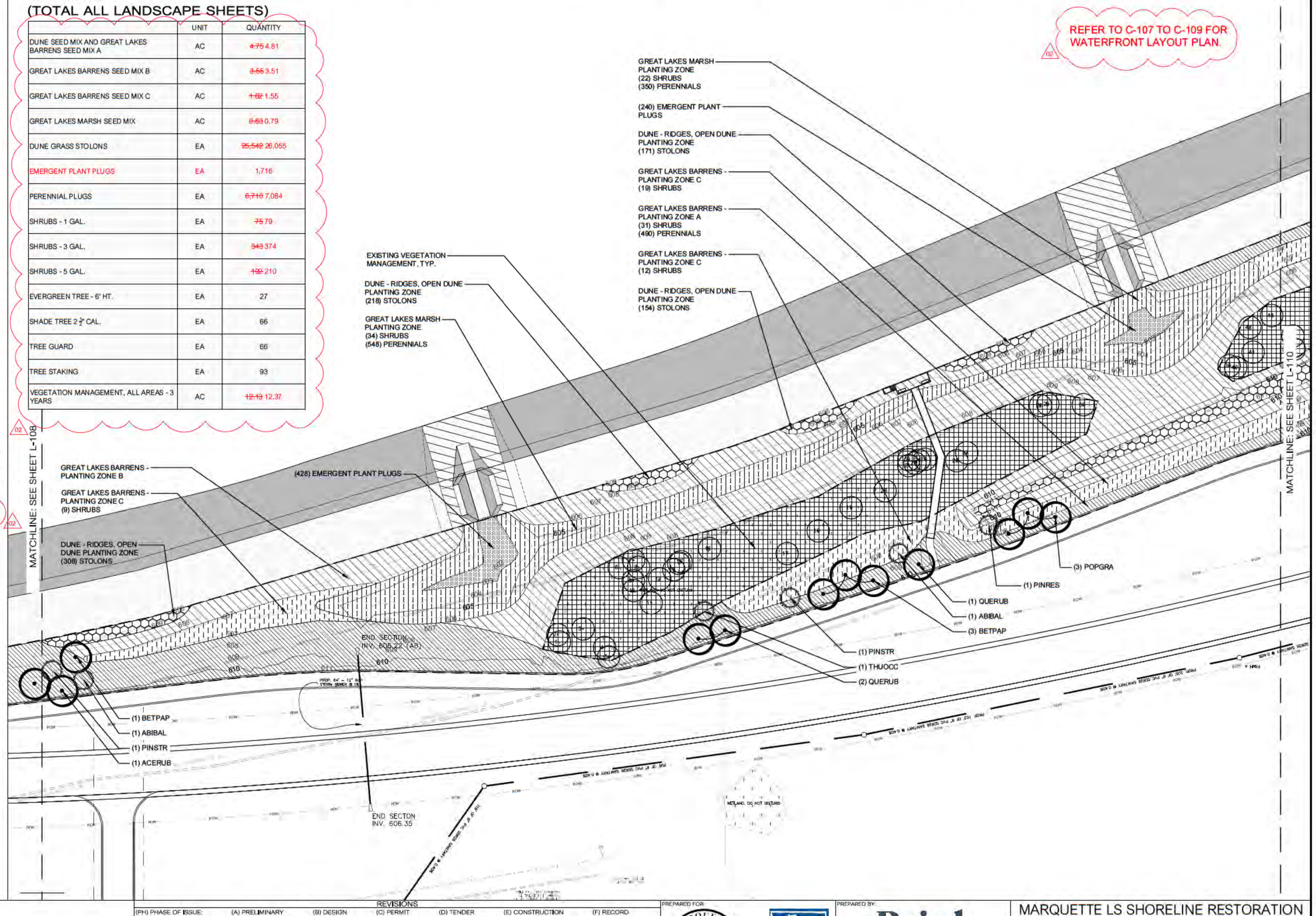
LEGEND

- DUNE - RIDGES, OPEN DUNE:
  - DUNE SEED MIX
  - MARRAM GRASS (STOLONS) @ 24" O.C.
- GREAT LAKES BARRENS - PLANTING ZONE A:
  - GREAT LAKES BARRENS SEED MIX A
  - GREAT LAKES BARRENS SHRUBS CLUSTERED IN GROUPS OF 3-7
  - PLUGS @ 5' O.C.
- GREAT LAKES BARRENS - PLANTING ZONE B:
  - GREAT LAKES BARRENS SEED MIX B
- GREAT LAKES BARRENS - PLANTING ZONE C:
  - GREAT LAKES BARRENS SEED MIX C
  - GREAT LAKES BARRENS SHRUBS CLUSTERED IN GROUPS OF 3-7
- GREAT LAKES MARSH:
  - GREAT LAKES MARSH SEED MIX
  - GREAT LAKES MARSH SHRUBS CLUSTERED IN GROUPS OF 3-7
  - GREAT LAKES MARSH PLUGS @ 5' O.C.
- EMERGENT PLUGS @ 24" O.C.
- EXISTING HERBACEOUS GROUNDCOVER MANAGEMENT
- EXISTING TREE
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE

PAY ITEMS
(TOTAL ALL LANDSCAPE SHEETS)

	UNIT	QUANTITY
DUNE SEED MIX AND GREAT LAKES BARRENS SEED MIX A	AC	~~4.75~~ 4.81
GREAT LAKES BARRENS SEED MIX B	AC	~~3.55~~ 3.51
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EVERGREEN TREE - 6' HT.	EA	27
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TREE STAKING	EA	93
VEGETATION MANAGEMENT, ALL AREAS - 3 YEARS	AC	~~12.13~~ 12.37

/02



0 40 80 FEET
SCALE: 1"= 40'

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-02-21
D	2	ADDENDUM 6	SLL	SLL	MJO	RR	2023-11-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP & LAND CONSERVANCY

PREPARED BY: Baird.
IN ASSOCIATION WITH: res, Foth

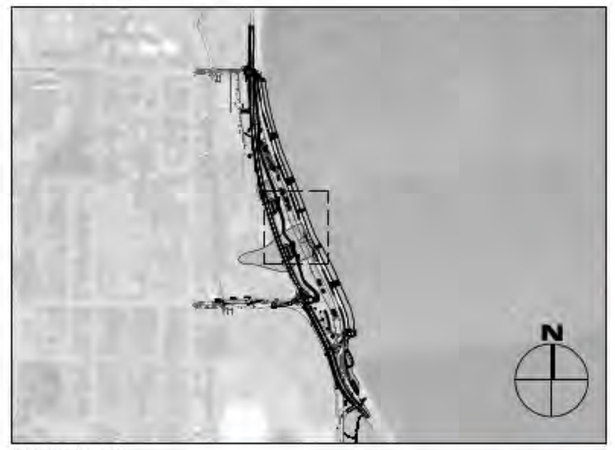
MARQUETTE LS SHORELINE RESTORATION
LANDSCAPE PLAN (SHEET 2 OF 5)

ISSUE NUMBER: –
ISSUE DATE: 2022-02-21
SHEET NUMBER: L-109
PROJECT NUMBER: 13290.101

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



NOTES

1. CONTRACTOR SHALL CONTACT DIGGER'S LOCATE SERVICE (811) TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.
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3. PLACE EROSION MAT IMMEDIATELY AFTER SEED PLACEMENT.
4. INDEPENDENT OF NUMERIC QUANTITIES ON DRAWINGS OR IN THE PLANT SCHEDULE, DETERMINE THE PLANT MATERIAL QUANTITIES REQUIRED BY THE PLANS. SPACE PLANT MATERIALS AS SHOWN ON PLANS AND INDICATED IN PLANT SCHEDULE. PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES AND SIZES SHALL BE THE MINIMUM INDICATED ON THE PLANT SCHEDULE OR LARGER. INSTALLATION OF LARGER PLANTS AT NO ADDITIONAL COST TO OWNER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANLA "STANDARDS FOR NURSERY STOCK".
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8. LEGALLY DISPOSE OF DEBRIS ASSOCIATED WITH PLANTING OFF-SITE.
9. SEE DETAIL J8 ON SHEET L-503 FOR EXAMPLE PLANTING PLAN OF PERENNIAL PLUGS AND SHRUBS. 02

LEGEND

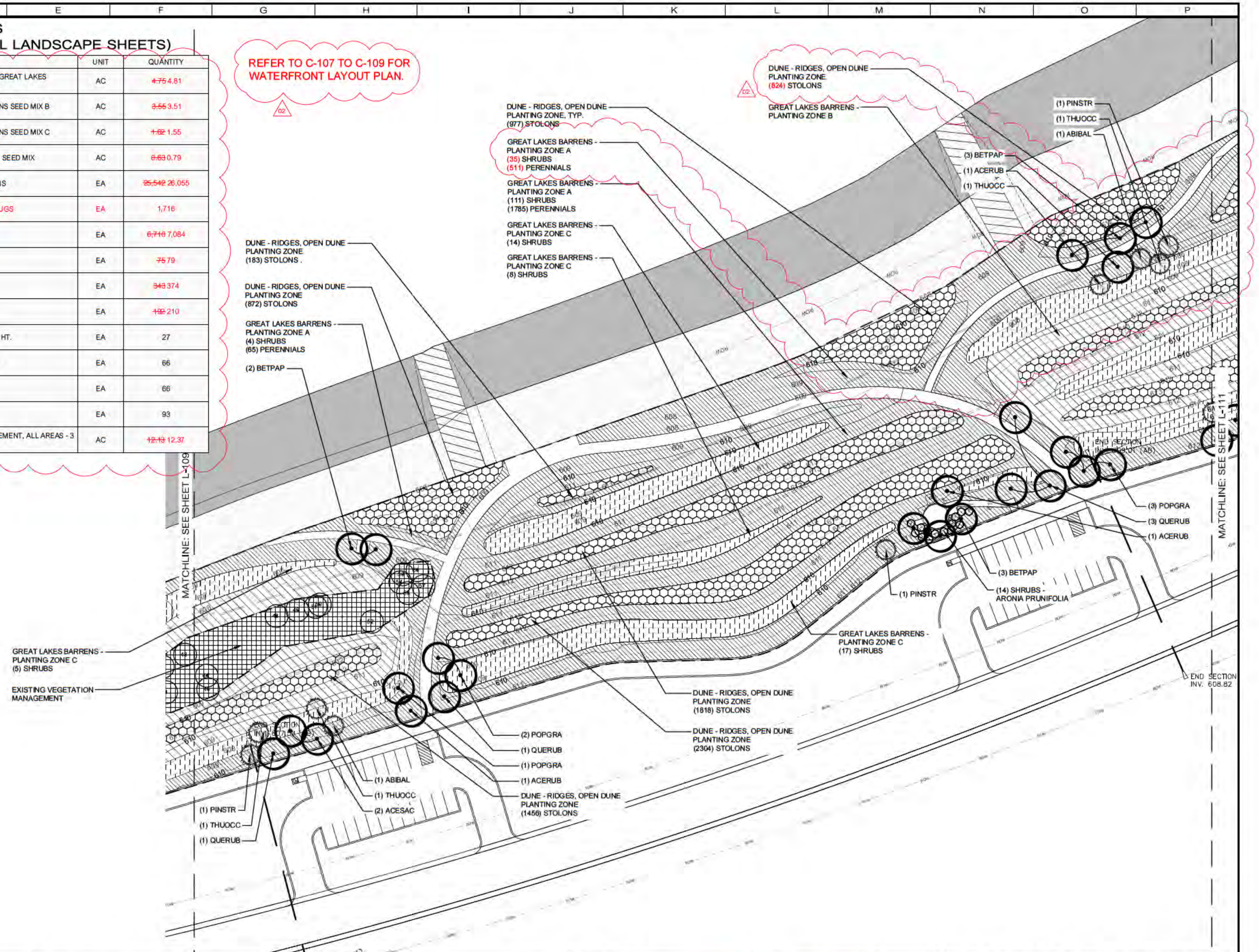
- DUNE - RIDGES, OPEN DUNE:
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  - MARRAM GRASS (STOLONS) @ 24" O.C.
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- EXISTING TREE
- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUB

PAY ITEMS (TOTAL ALL LANDSCAPE SHEETS)

	UNIT	QUANTITY
DUNE SEED MIX AND GREAT LAKES BARRENS SEED MIX A	AC	~~4.75~~ 4.81
GREAT LAKES BARRENS SEED MIX B	AC	~~3.55~~ 3.51
GREAT LAKES BARRENS SEED MIX C	AC	~~1.62~~ 1.55
GREAT LAKES MARSH SEED MIX	AC	~~0.83~~ 0.79
DUNE GRASS STOLONS	EA	~~25,542~~ 26,055
EMERGENT PLANT PLUGS	EA	1,716
PERENNIAL PLUGS	EA	~~6,710~~ 7,084
SHRUBS - 1 GAL.	EA	~~75~~ 79
SHRUBS - 3 GAL.	EA	~~343~~ 374
SHRUBS - 5 GAL.	EA	~~192~~ 210
EVERGREEN TREE - 6' HT.	EA	27
SHADE TREE 2 ½" CAL.	EA	66
TREE GUARD	EA	66
TREE STAKING	EA	93
VEGETATION MANAGEMENT, ALL AREAS - 3 YEARS	AC	~~12.13~~ 12.37

02

REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN. 02



0 40 80 FEET
SCALE: 1"= 40'

2

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY		(B) DESIGN			(C) PERMIT			(D) TENDER			(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD			
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2020-02-21											
D	2	ADDENDUM 1	SLL	SLL	MJO	RR	2020-11-21											

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND ECONOMY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

LANDSCAPE PLAN (SHEET 3 OF 5)

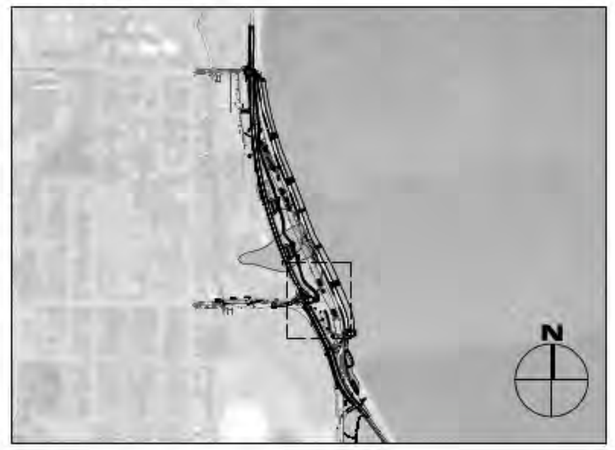
ISSUE NUMBER: —
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: L-110

P:\NEGO ECOLOGICAL NAS\PROJECTS\13290.4 RES-GWP MARQUETTE\CAD\SHEETS\L-110 LANDSCAPE PLAN.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



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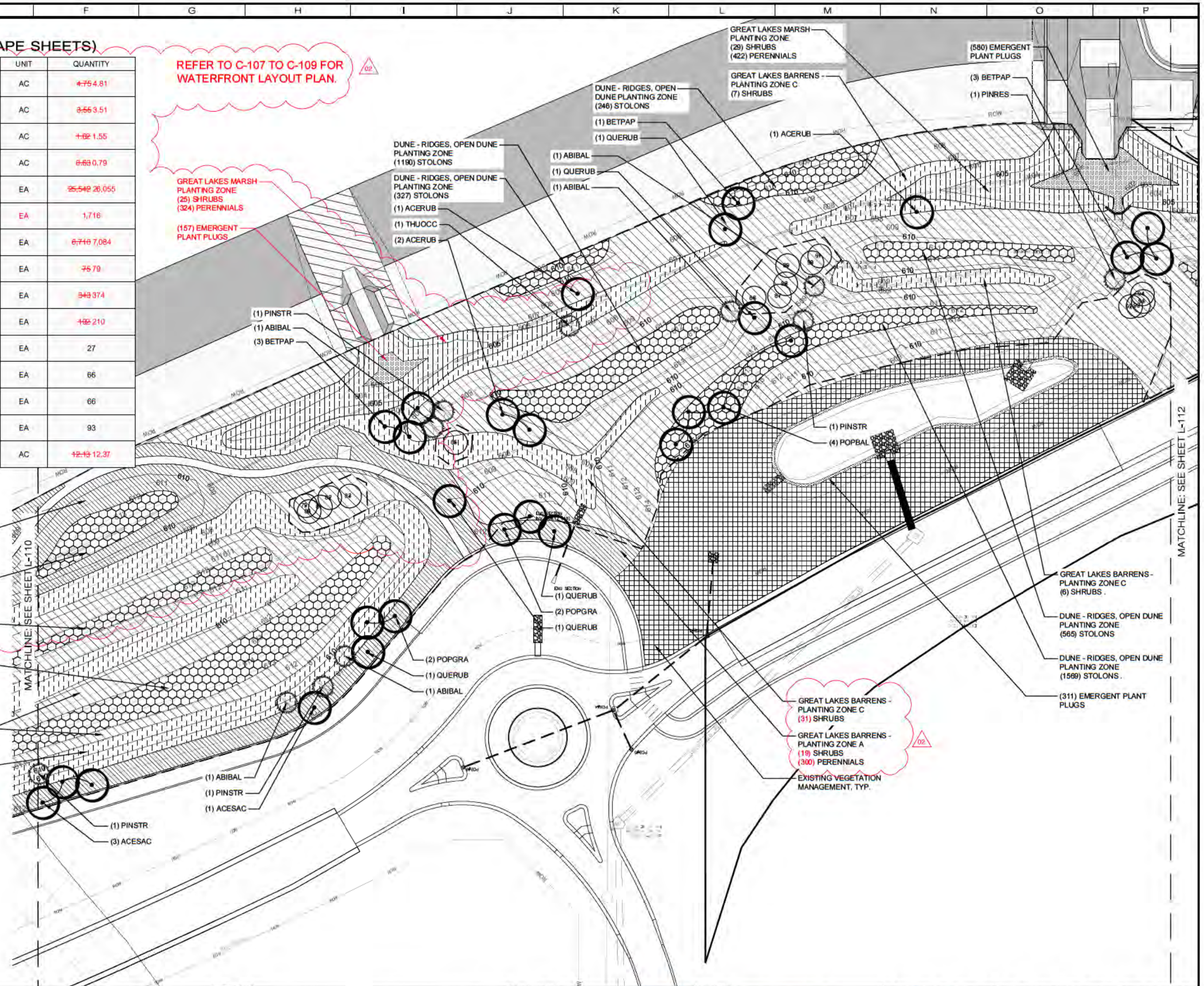
LEGEND

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PAY ITEMS
(TOTAL ALL LANDSCAPE SHEETS)

	UNIT	QUANTITY
DUNE SEED MIX AND GREAT LAKES BARRENS SEED MIX A	AC	~~4.75~~ 4.81
GREAT LAKES BARRENS SEED MIX B	AC	~~3.55~~ 3.51
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VEGETATION MANAGEMENT, ALL AREAS - 3 YEARS	AC	~~12.13~~ 12.37

REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN. 02



0 40 80 FEET
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BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-02-21
D	2	ADDENDUM 6	SLL	SLL	MJO	RR	2023-11-21

(A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PREPARED FOR: MARQUETTE MICHIGAN

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PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

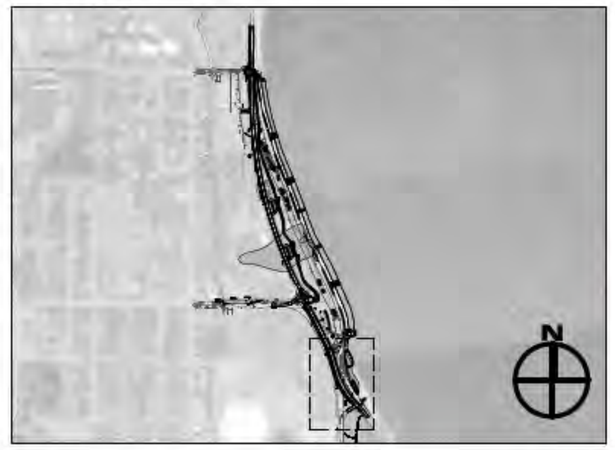
LANDSCAPE PLAN (SHEET 4 OF 5)

ISSUE NUMBER: —
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: L-111

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

©City of Marquette, MI

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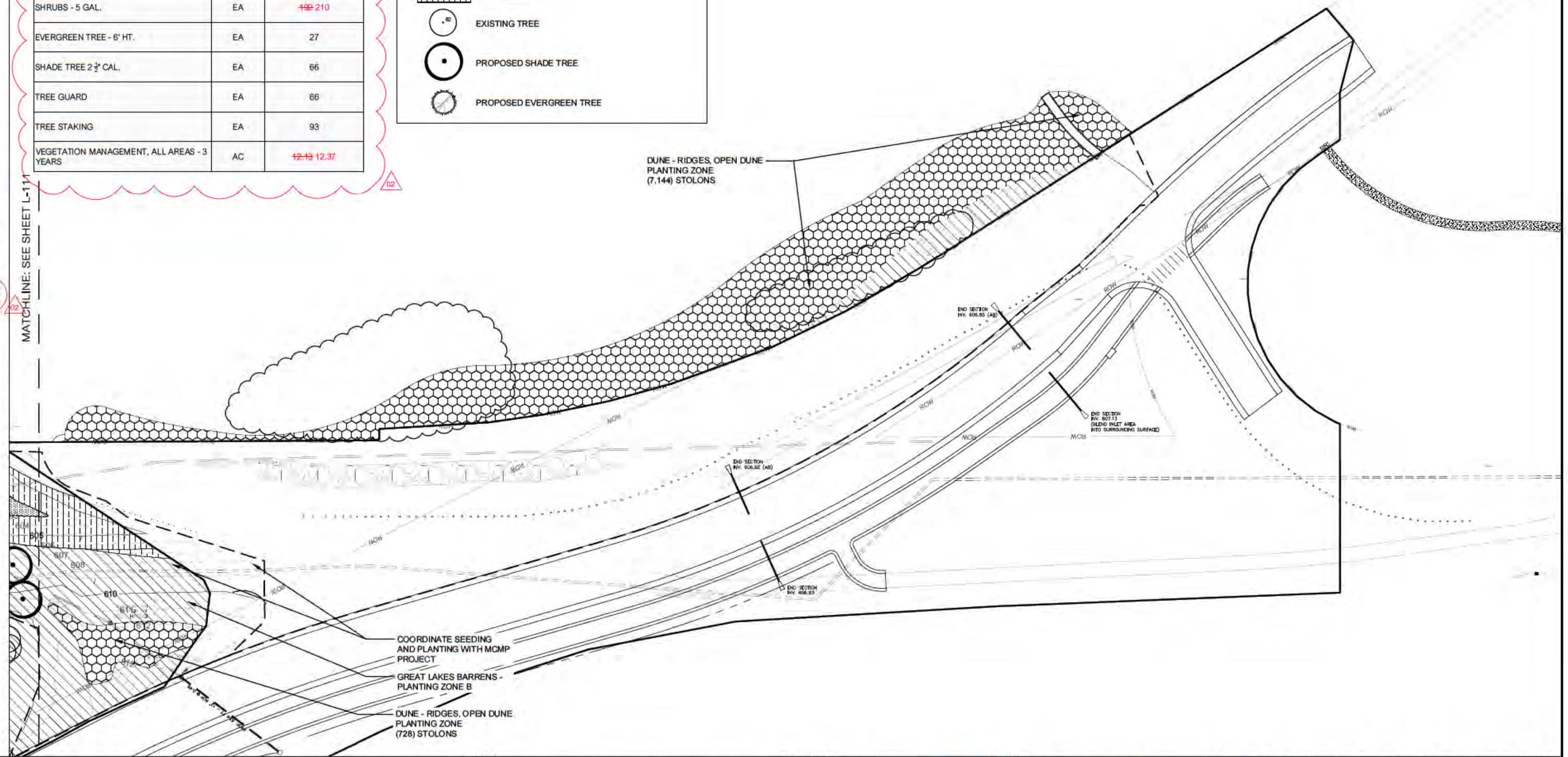
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02

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REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN. 02



0 40 80 FEET
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BID DOCUMENTS FOR CONSTRUCTION

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D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-03-21								
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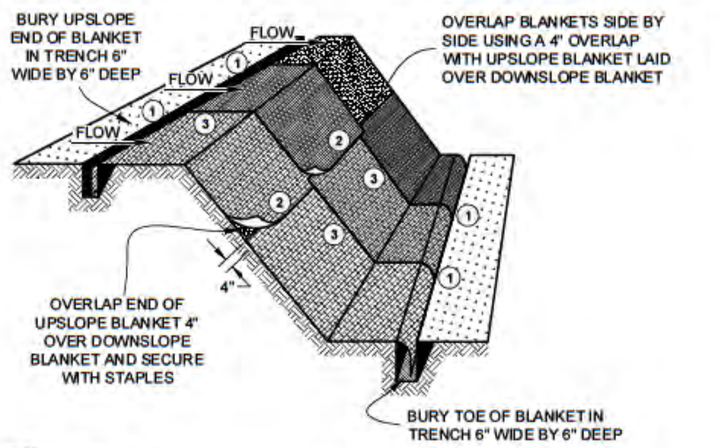
LANDSCAPE PLAN (SHEET 5 OF 5)

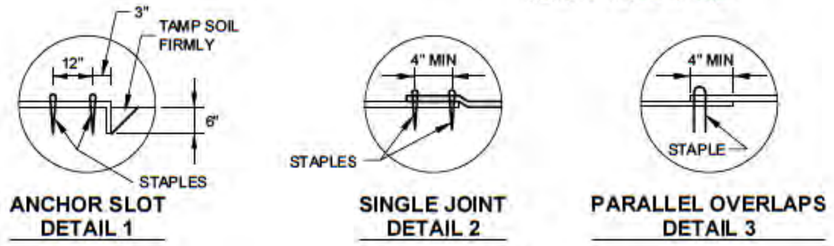
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ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: L-112

P:\DOGO ECOLOGICAL NAS\PROJECTS\2934 RES-GWP MARQUETTE\CAD\SHEETS\L-112 LANDSCAPE PLAN.DWG

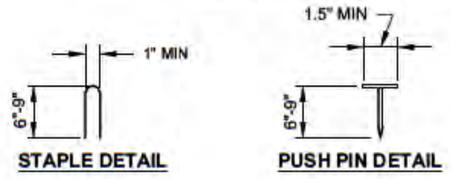
PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

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ANCHOR SLOT DETAIL 1 | SINGLE JOINT DETAIL 2 | PARALLEL OVERLAPS DETAIL 3

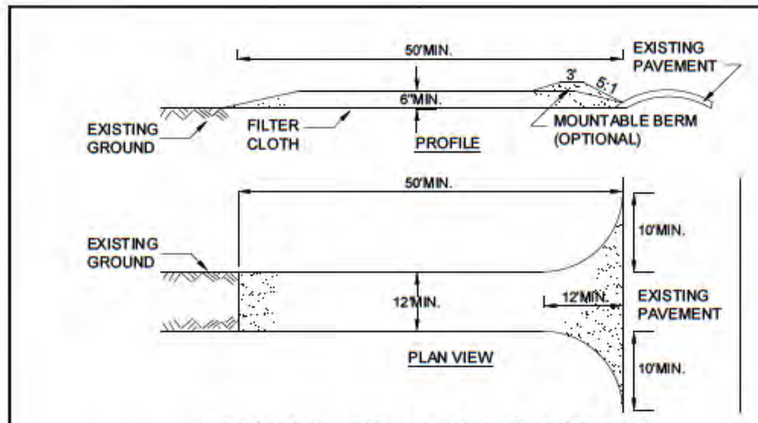


STAPLE DETAIL | PUSH PIN DETAIL

NOTES:

1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL.
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
3. EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
4. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

A6 / L-501 — EROSION CONTROL MAT — N.T.S.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

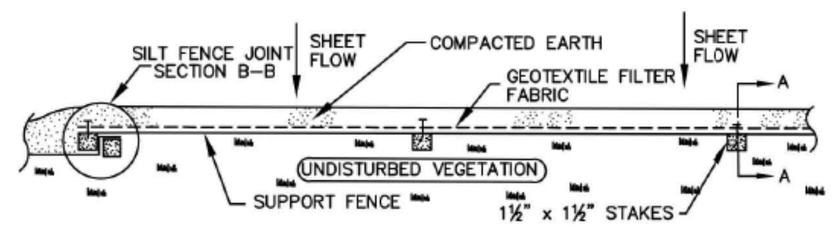
U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ENTRANCE

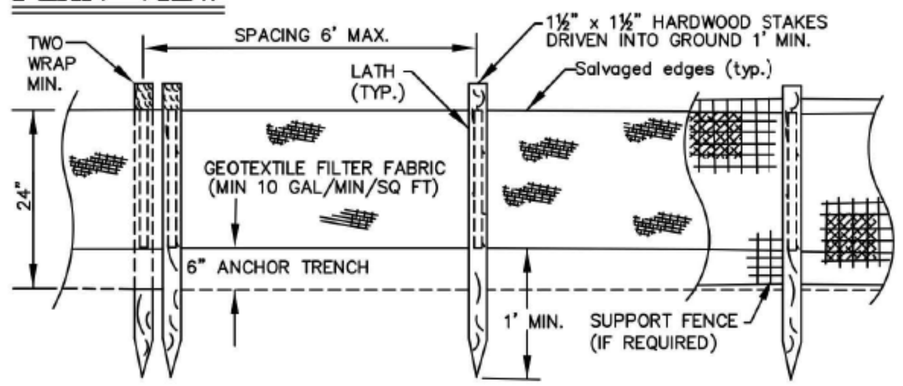
E6 / L-501 — GRAVEL ACCESS APPROACH — N.T.S.

SILT FENCE (SP-2)

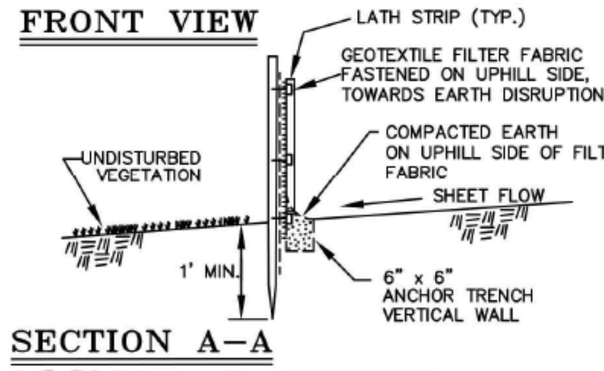
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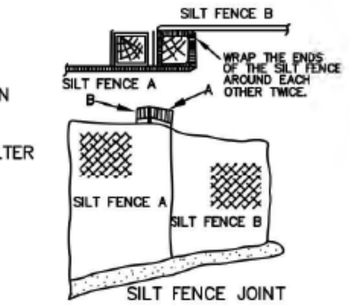
PLAN VIEW



FRONT VIEW

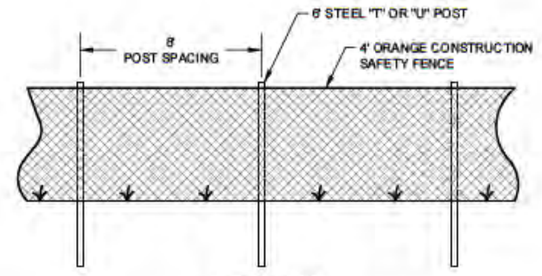


SECTION A-A

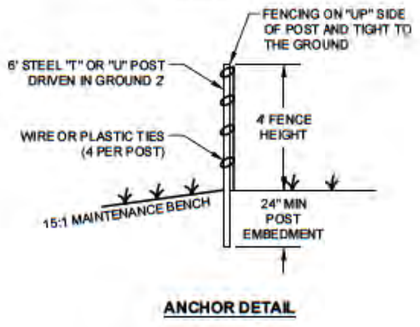


SECTION B-B

I6 / L-501 — SILT FENCE — N.T.S.



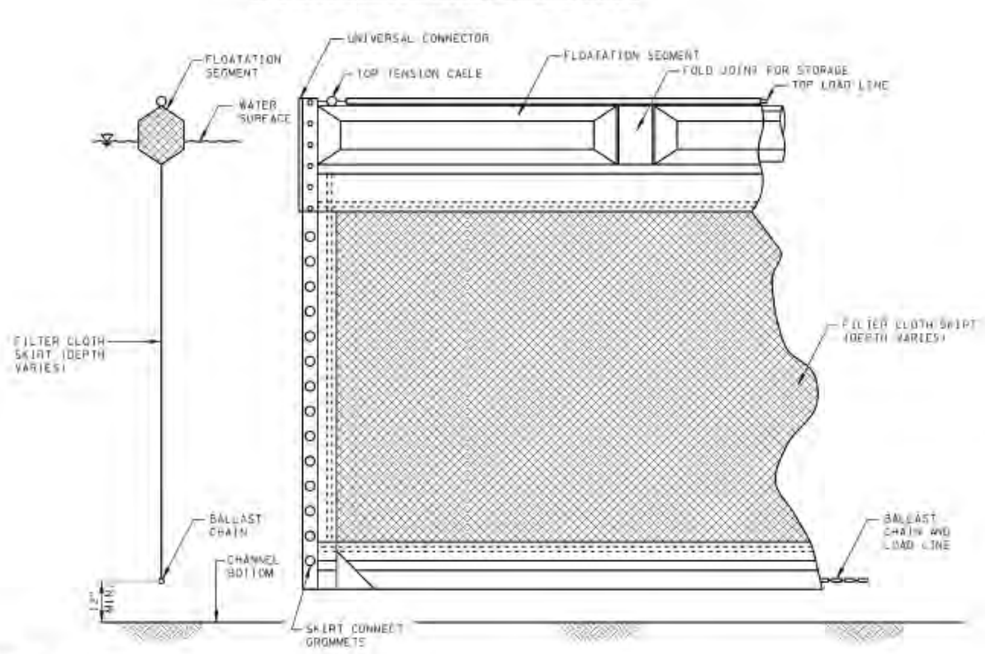
ELEVATION



ANCHOR DETAIL

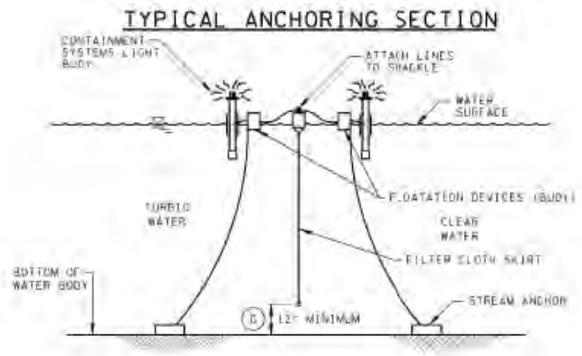
M6 / L-501 — CONSTRUCTION AND TREE PROTECTION FENCE — N.T.S.

FLOATING TURBIDITY CURTAIN



PHYSICAL PROPERTIES OF TURBIDITY CURTAIN FABRIC	
PHYSICAL PROPERTY	MINIMUM REQUIREMENT
THICKNESS, MILS	45
WEIGHT, OZ. / SQ. YD.	18
GRAB TENSILE STRENGTH, LBS.	300
UV INHIBITOR	MUST BE INCLUDED
APPARENT OPENING SIZE (AOS)	FINER THAN OR EQUAL TO #70 U.S. STANDARD SIEVE

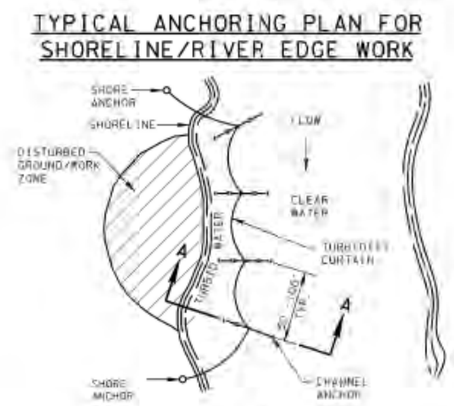
TYPICAL ANCHORING SECTION



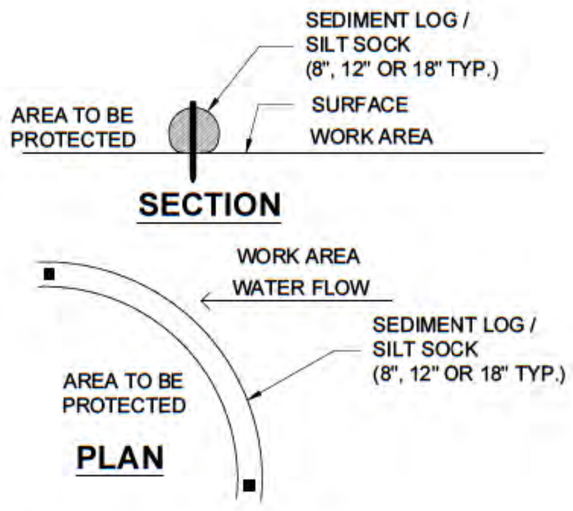
SECTION A-A

AUTOMATIC FLASHING LIGHT BOOY (ON AT DUSK-OFF AT DAWN) 100' ON CENTER SHALL BE USED IN NAVIGABLE CHANNELS ONLY

TYPICAL ANCHORING PLAN FOR SHORELINE/RIVER EDGE WORK



PLAN VIEW



A9 / L-501 — TURBIDITY CURTAIN — N.T.S.

K9 / L-501 — INLET PROTECTION — N.T.S.

SCALE: VARIES

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2022-02-21

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

PREPARED BY: Baird. IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

EROSION CONTROL DETAILS

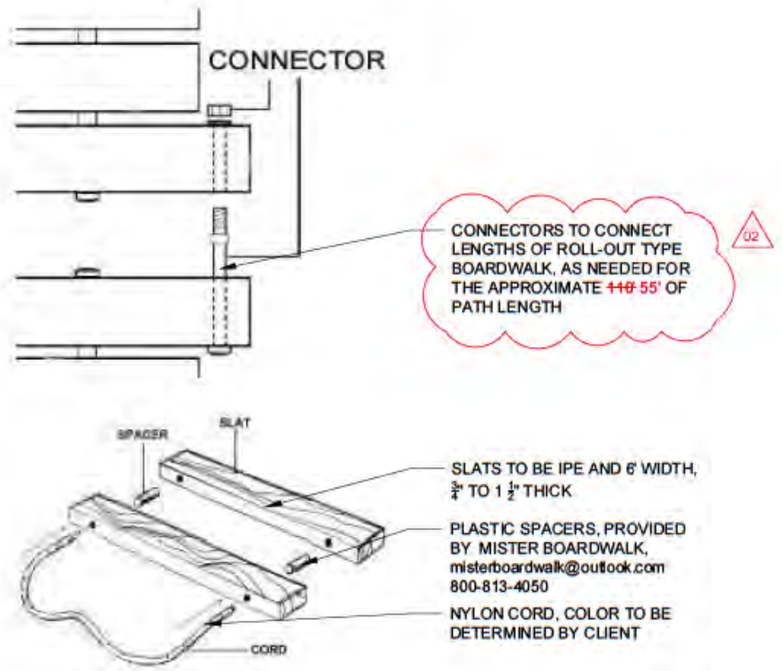
ISSUE NUMBER: – | ISSUE DATE: 2022-02-21 | SHEET NUMBER: L-501

PROJECT NUMBER: 13290.101

P:\13290 ECOLOGICAL NAS\PROJECTS\2024 RES-SWP MARQUETTE\CAD\SHEETS\L-502 EROSION CONTROL DETAILS.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

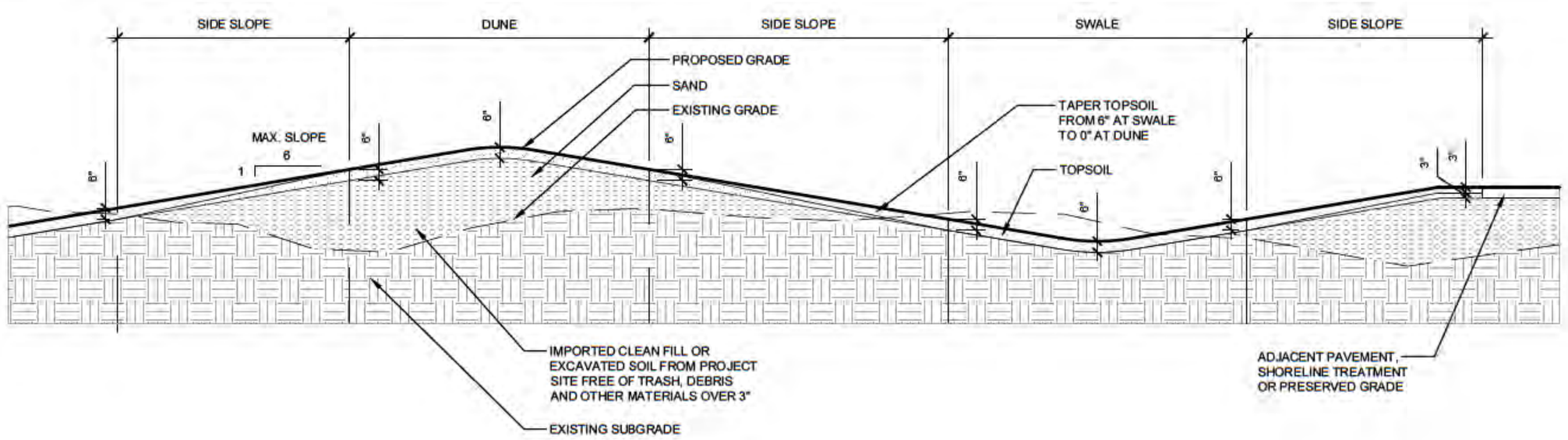
City of Marquette, MI



A5 / L-502 NOT USED N.T.S.

E5 / L-502 NOT USED N.T.S.

I5 / L-502 ROLL OUT BEACH WALK DETAIL N.T.S.



A8 / L-502 GRADING AND SOILS TYPICAL SECTION SCALE: ½" = 1'-0"

SCALE: VARIES

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2022-02-21
D	2	ADDENDUM 5	SLL	SLL	MJO	RR	2022-04-27

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird. IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

SITE DETAILS

ISSUE NUMBER: —

ISSUE DATE: 2022-02-21

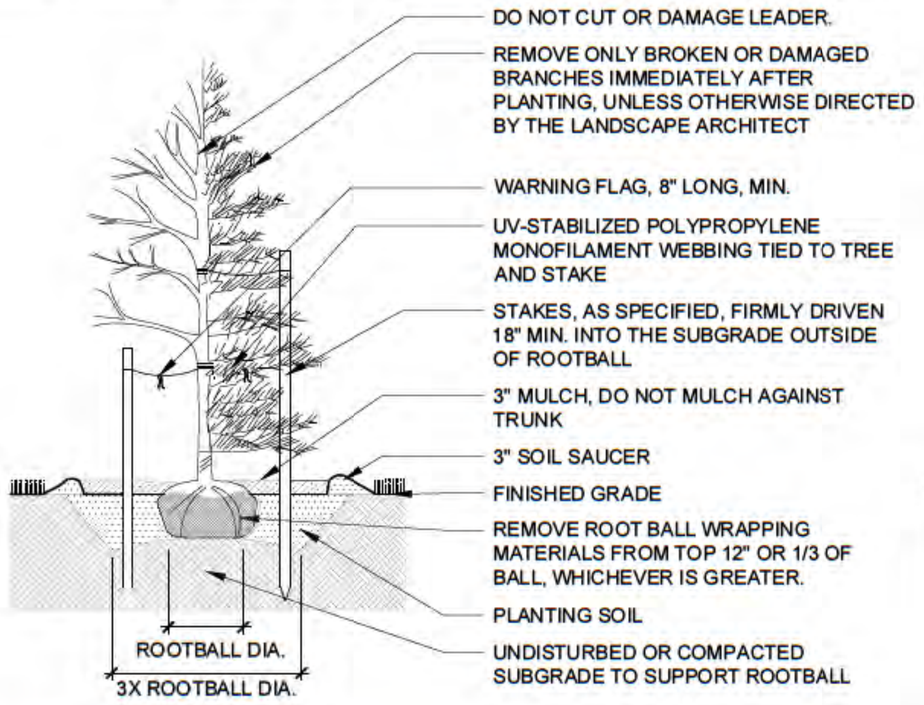
PROJECT NUMBER: 13290.101

SHEET NUMBER: L-502

P:\HOGO ECOLOGICAL NAS\PROJECTS\2020 RES-GWP MARQUETTE\CAD\01 ECTPL-01 LANDSCAPE DETAILS.DWG

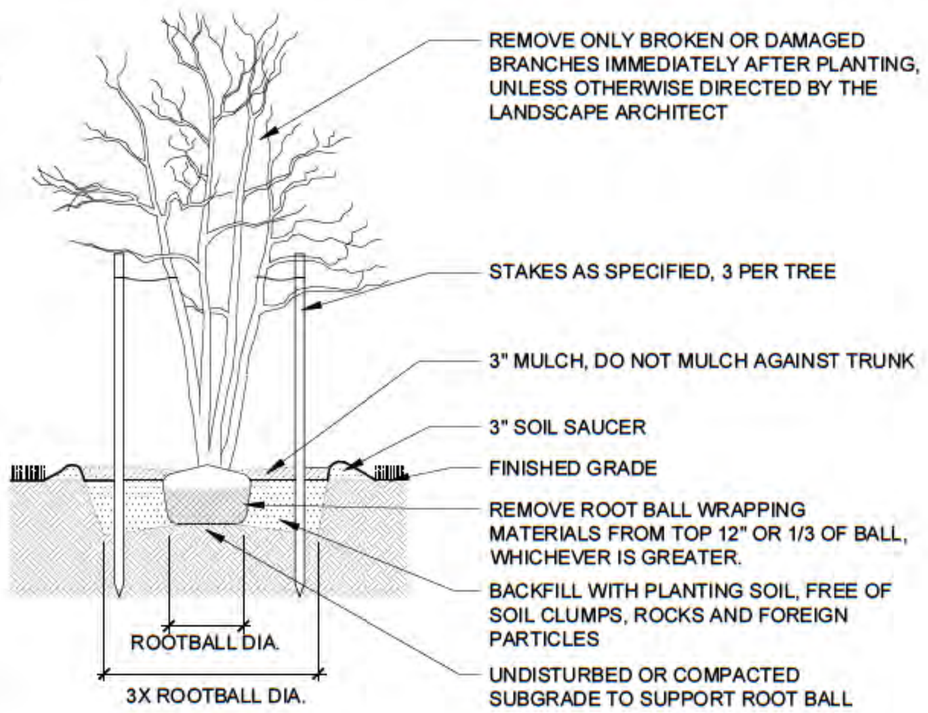
PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

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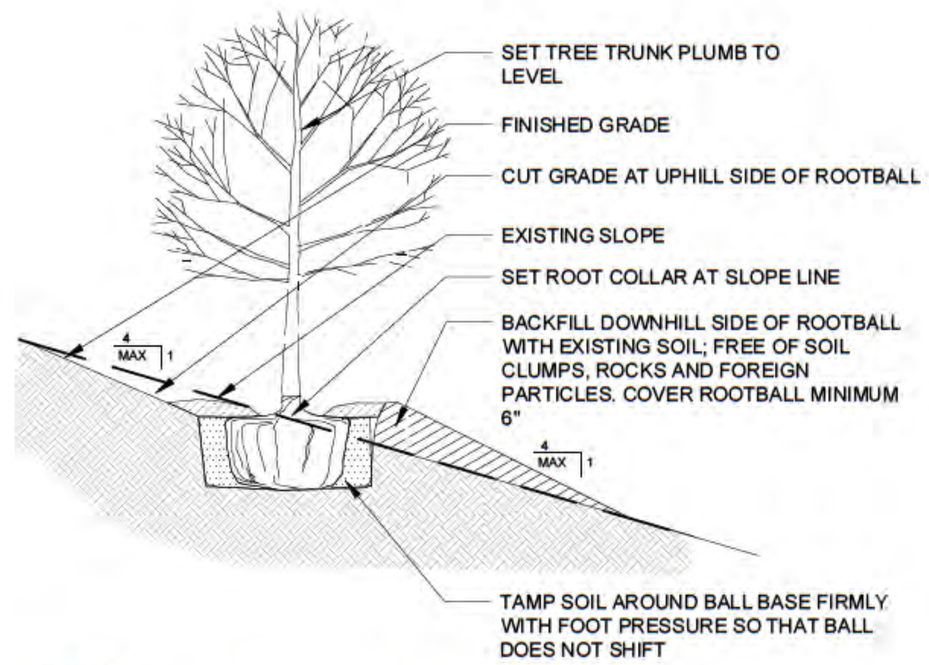
NOTES:
1. EXCAVATE TREE PIT AND SCARIFY EDGES TO ASSIST ROOT DEVELOPMENT.
2. SET TOP OF BALL 2"- 3" ABOVE FINISHED GRADE. DO NOT BACKFILL OVER TOP OF ROOTBALL.
3. REMOVE ROOT BALL WRAPPING MATERIALS (BURLAP, TWINE, WIRE BASKET, ETC) AFTER TREE IS SET IN PLACE. REMOVE SYNTHETIC WRAPPING COMPLETELY.
4. LEAVE MONOFILAMENT WEBBING SLIGHTLY SLACK TO ALLOW TREE TO SWAY IN THE WIND.

A5 / L-503 CANOPY / EVERGREEN TREE PLANTING N.T.S.



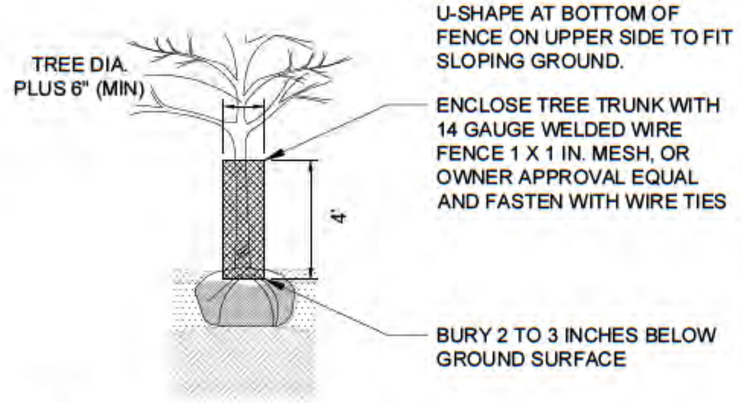
NOTES:
1. EXCAVATE TREE PIT AND SCARIFY EDGES TO ASSIST ROOT DEVELOPMENT.
2. SET TOP OF ROOT BALL 2 - 3" ABOVE FINISH GRADE. DO NOT BACKFILL OVER TOP OF BALL.
3. REMOVE ROOT BALL WRAPPING MATERIALS (BURLAP, TWINE, WIRE BASKET, ETC) AFTER TREE IS SET IN PLACE. REMOVE SYNTHETIC WRAPPING COMPLETELY.

E5 / L-503 ORNAMENTAL TREE PLANTING N.T.S.



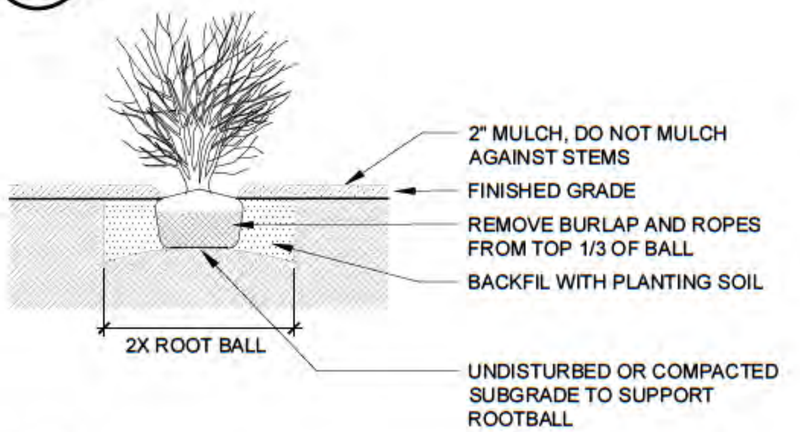
NOTES:
1. REFER TO VARIOUS SPECIFIC TREE INSTALLATION DETAILS FOR STAKING, GUYING MULCHING, ETC.
2. THIS INSTALLATION SHALL APPLY TO ALL TREE TYPES AND SIZES PLANTED ON SLOPES TO A MAXIMUM OF 3:1.

I5 / L-503 PLANTING ON SLOPES (TREES AND SHRUBS) N.T.S.



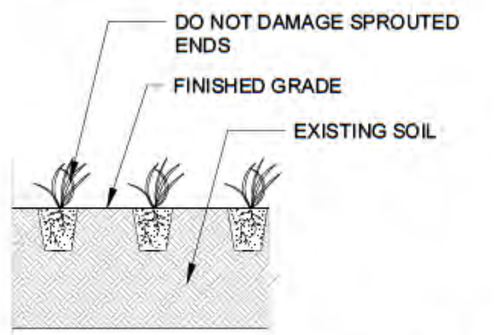
NOTE:
1. FOR TREES ON SLOPE, CUT U-SHAPE AT BOTTOM OF FENCE ON UPPER SIDE TO FIT SLOPING GROUND.

M5 / L-503 TREE TRUNK PROTECTION N.T.S.



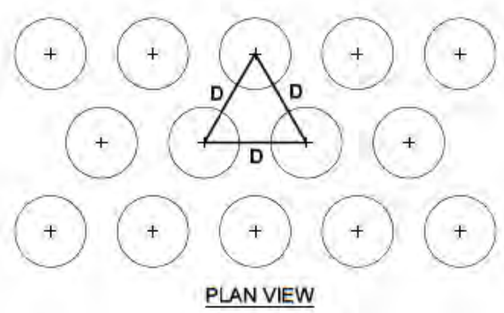
NOTES:
1. REMOVE ROOT BALL CONTAINER. PLANT EACH SHRUB SUCH THAT THE ROOT COLLAR IS VISIBLE AT THE TOP OF THE ROOTBALL. DO NOT COVER THE TOP OF THE ROOTBALL WITH SOIL.
2. FOR B&B SHRUBS, REMOVE ROOT BALL WRAPPING MATERIALS (BURLAP, TWINE, WIRE BASKET, ETC).
3. SCARIFY EDGES OF PLANTING PIT.

A8 / L-503 SHRUB PLANTING N.T.S.



NOTE:
1. PLANT SPACING AS PER PLANTING PLAN AND PLANT SCHEDULE.
2. INSTALL AQUATIC PLANTS FIRMLY INTO THE SOIL.
3. PLANT EACH PLUG OR ROOTSTOCK INTO THE SOIL UP TO THE SHOOT COLLAR OF THE PLANT. DO NOT BURY THE ENTIRE PLANT OR DAMAGE SPROUTED VEGETATION.

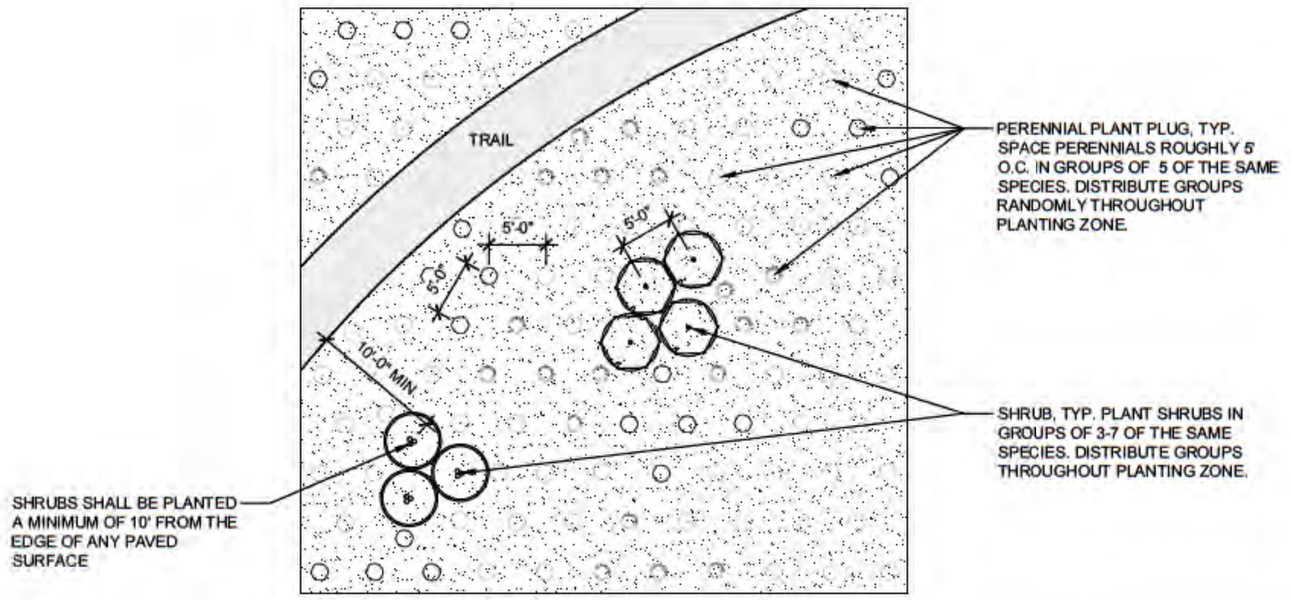
E8 / L-503 HERBACEOUS PLUG PLANTING N.T.S.



PLAN VIEW

NOTES:
1. D = DIMENSION OF PLANT SPACING AS INDICATED ON PLANT LIST

H8 / L-503 PLANT SPACING N.T.S.



J8 / L-503 PLANTING PLAN EXAMPLE SCALE: 1"=10'

SCALE: VARIES

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY		(B) DESIGN		(C) PERMIT		(D) TENDER		(E) CONSTRUCTION		(F) RECORD					
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2022-02-21								

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

LANDSCAPE DETAILS

ISSUE NUMBER: –

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: L-503

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

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DUNE SEED MIX & GREAT LAKES BARRENS SEED MIX A

SCIENTIFIC NAME	COMMON NAME	PLS Oz/Acre
Grasses, Sedges & Rushes		
Bouteloua curtipendula	Side-oats Grama	20.00
Bromus kalmii	Prairie Brome	4.00
Calamovilfa longifolia	Prairie Sand Reed	0.50
Elymus canadensis	Canada Wild Rye	16.00
Koeleria cristata	June Grass	0.50
Schizachyrium scoparium	Little Bluestem	35.00
Sporobolus heterolepis	Prairie Dropseed	0.50
Grasses, Sedges & Rushes Subtotal		**76.50**
SCIENTIFIC NAME	**COMMON NAME**	**PLS Oz/Acre**
Forbs		
Anemone virginiana	Tall Thimbleweed	0.20
Asclepias tuberosa	Butterfly Milkweed	1.50
Aster laevis	Smooth Blue Aster	1.00
Aster sagittifolius	Arrow-leaved Aster	0.75
Baptisia lactea	White Wild Indigo	2.50
Chamaecrista fasciculata	Partridge Pea	4.50
Coreopsis lanceolata	Lance-leaf Coreopsis	4.50
Desmodium illinoense	Prairie Tick Trefoil	0.20
Echinacea purpurea	Purple Coneflower	4.50
Eryngium yuccifolium	Rattlesnake Master	1.25
Kuhnia eupatorioides	False Boneset	1.20
Liatris aspera	Rough Blazingstar	0.20
Lupinus perennis	Lupine	2.50
Monarda fistulosa	Wild Bergamot	2.50
Penstemon digitalis	Foxglove Beardtongue	2.50
Dalea purpureum	Purple Prairie Clover	4.50
Potentilla arguta	Prairie Cinquefoil	1.25
Ratibida pinnata	Yellow Coneflower	2.40
Rudbeckia hirta	Black-eyed Susan	4.00
Solidago rigida	Stiff Goldenrod	1.50
Tradescantia ohiensis	Common Spiderwort	0.75
Verbena stricta	Hoary Vervain	3.00
Zizia aptera	Prairie Golden Alexander	0.80
Forbs Subtotal		**48.00**
Total All Species		**124.50**
Temporary Cover Crop		
Lolium multiflorum	Annual Ryegrass	80.00
Avena sativa	Oats	320.00

GREAT LAKES BARRENS SEED MIX B

SCIENTIFIC NAME	COMMON NAME	PLS Oz/Acre
Grasses, Sedges & Rushes		
Bouteloua curtipendula	Side-oats Grama	8.00
Carex bicknellii	Bicknell's Sedge	0.25
Carex molesta	Field Oval Sedge	1.00
Elymus canadensis	Canada Wild Rye	4.00
Koeleria cristata	June Grass	1.50
Schizachyrium scoparium	Little Bluestem	16.00
Sporobolus heterolepis	Prairie Dropseed	5.30
Grasses, Sedges & Rushes Subtotal		**36.05**
SCIENTIFIC NAME	**COMMON NAME**	**PLS Oz/Acre**
Forbs		
Agastache scrophulariaefolia	Purple Giant Hyssop	0.25
Amorpha canescens	Leadplant	1.50
Asclepias syriaca	Common Milkweed	1.50
Asclepias tuberosa	Butterfly Milkweed	1.00
Aster laevis	Smooth Blue Aster	0.50
Aster novae-angliae	New England Aster	0.25
Chamaecrista fasciculata	Partridge Pea	10.00
Coreopsis lanceolata	Lance-leaf Coreopsis	8.00
Echinacea purpurea	Purple Coneflower	8.00
Eryngium yuccifolium	Rattlesnake Master	1.00
Liatris aspera	Rough Blazingstar	0.50
Liatris spicata	Marsh Blazingstar	1.50
Lupinus perennis	Lupine	1.50
Monarda fistulosa	Wild Bergamot	2.00
Penstemon digitalis	Foxglove Beardtongue	1.00
Dalea purpureum	Purple Prairie Clover	6.50
Pycnanthemum tenuifolium	Slender Mountain Mint	0.50
Ratibida pinnata	Yellow Coneflower	4.00
Rudbeckia fulgida	Orange Coneflower	1.50
Rudbeckia hirta	Black-eyed Susan	4.50
Silphium terebinthinaceum	Prairie Dock	1.00
Solidago rigida	Stiff Goldenrod	0.50
Vernonia gigantea	Tall Ironweed	1.50
Zizia aurea	Golden Alexander	1.50
Forbs Subtotal		**60.00**
Total All Species		**96.05**
Temporary Cover Crop		
Lolium multiflorum	Annual Ryegrass	80.00
Avens sativa	Oats	320.00

GREAT LAKES BARRENS SEED MIX C

SCIENTIFIC NAME	COMMON NAME	PLS Oz/Acre
Grasses, Sedges & Rushes		
Bouteloua curtipendula	Side-oats Grama	8.00
Calamagrostis canadensis	Bluejoint Grass	0.50
Carex comosa	Bristly Sedge	2.00
Carex molesta	Field Oval Sedge	1.00
Carex vulpinoidea	Fox Sedge	1.50
Elymus canadensis	Canada Wild Rye	4.00
Elymus virginicus	Virginia Wild Rye	32.00
Juncus effusus	Soft Rush	0.25
Koeleria cristata	June Grass	1.50
Leersia oryzoides	Rice Cut Grass	0.25
Panicum virgatum	Switchgrass	3.00
Schizachyrium scoparium	Little Bluestem	16.00
Scirpus atrovirens	Dark Green Bulrush	0.75
Scirpus cyperinus	Wool Grass	0.25
Spartina pectinata	Prairie Cordgrass	2.50
Sporobolus heterolepis	Prairie Dropseed	5.30
Grasses, Sedges & Rushes Subtotal		**65.50**
SCIENTIFIC NAME	**COMMON NAME**	**PLS Oz/Acre**
Forbs		
Asclepias incarnata	Swamp Milkweed	1.00
Aster laevis	Smooth Blue Aster	0.50
Aster novae-angliae	New England Aster	0.25
Bidens cernua	Nodding Bur Marigold	0.25
Boltonia asteroides	False Aster	0.25
Cassia hebecarpa	Wild Senna	6.00
Chamaecrista fasciculata	Partridge Pea	10.00
Coreopsis lanceolata	Lance-leaf Coreopsis	8.00
Dalea purpurea	Purple Prairie Clover	6.50
Echinacea purpurea	Purple Coneflower	8.00
Eryngium yuccifolium	Rattlesnake Master	1.00
Eupatorium maculatum	Joe Pye Weed	0.50
Helenium autumnale	Sneezeweed	1.25
Helianthus grosserratus	Saw-toothed Sunflower	0.25
Hypericum pyramidatum	Great St. John's Wort	1.00
Iris virginica	Southern Blue Flag Iris	3.00
Liatris spicata	Marsh Blazingstar	1.50
Lobela siphilitica	Great Blue Lobelia	0.50
Lupinus perennis	Lupine	1.50
Lycopus americanus	Water Horehound	0.25
Mimulus ringens	Monkey Flower	0.10
Monarda fistulosa	Wild Bergamot	0.25
Penstemon digitalis	Foxglove Beardtongue	0.75
Pycnanthemum virginianum	Mountain Mint	0.50
Ratibida pinnata	Yellow Coneflower	4.00
Rudbeckia hirta	Black-eyed Susan	4.50
Silphium terebinthinaceum	Prairie Dock	1.00
Solidago riddellii	Riddell's Goldenrod	1.00
Verbena hastata	Blue Vervain	3.00
Zizia aurea	Golden Alexander	1.50
Forbs Subtotal		**68.10**
Total All Species		**133.60**
Temporary Cover Crop		
Lolium multiflorum	Annual Ryegrass	112.00
Avens sativa	Oats	320.00

GREAT LAKES MARSH SEED MIX

SCIENTIFIC NAME	COMMON NAME	PLS Oz/Acre
Grasses, Sedges & Rushes		
Bromus ciliatus	Fringed Brome	8.00
Calamagrostis canadensis	Bluejoint Grass	0.50
Carex bebbii	Bebb's Oval Sedge	1.00
Carex comosa	Bristly Sedge	2.00
Carex hystericina	Porcupine Sedge	2.00
Carex vulpinoidea	Fox Sedge	1.50
Elymus virginicus	Virginia Wild Rye	32.00
Juncus effusus	Soft Rush	0.25
Leersia oryzoides	Rice Cut Grass	0.25
Panicum virgatum	Switchgrass	3.00
Poa palustrus	Fowl Bluegrass	0.50
Scirpus atrovirens	Dark Green Bulrush	0.75
Scirpus cyperinus	Wool Grass	0.25
Spartina pectinata	Prairie Cordgrass	2.50
Grasses, Sedges & Rushes Subtotal		**54.50**
SCIENTIFIC NAME	**COMMON NAME**	**PLS Oz/Acre**
Forbs		
Actinomeris alternifolia	Wingstem	0.25
Angelica atropurpurea	Angelica	4.00
Asclepias incarnata	Swamp Milkweed	1.00
Aster novae-angliae	New England Aster	0.25
Aster puniceus	Swamp Aster	0.50
Bidens cernua	Nodding Bur Marigold	0.25
Boltonia asteroides	False Aster	0.25
Cassia hebecarpa	Wild Senna	6.00
Eupatorium maculatum	Joe Pye Weed	0.50
Eupatorium perfoliatum	Boneset	0.25
Helenium autumnale	Sneezeweed	1.25
Helianthus grosserratus	Saw-toothed Sunflower	0.25
Hypericum pyramidatum	Great St. John's Wort	1.00
Iris virginica	Southern Blue Flag Iris	3.00
Liatris spicata	Marsh Blazingstar	2.00
Lobela siphilitica	Great Blue Lobelia	0.50
Ludwigia alternifolia	Seedbox	0.25
Lycopus americanus	Water Horehound	0.25
Mimulus ringens	Monkey Flower	0.10
Monarda fistulosa	Wild Bergamot	0.25
Penstemon digitalis	Foxglove Beardtongue	0.75
Physotegia virginiana	Obedient Plant	0.50
Pycnanthemum virginianum	Mountain Mint	0.50
Rudbeckia hirta	Black-eyed Susan	5.25
Rudbeckia laciniata	Golden Glow	0.40
Rumex orbiculatus	Green Water Dock	1.00
Silphium terebinthinaceum	Prairie Dock	2.00
Solidago riddellii	Riddell's Goldenrod	1.00
Verbena hastata	Blue Vervain	3.00
Zizia aurea	Golden Alexander	4.00
Forbs Subtotal		**40.50**
Total All Species		**95.00**
Temporary Cover Crop		
Lolium multiflorum	Annual Ryegrass	112.00
Avens sativa	Oats	320.00

SCALE: VARIES

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2022-02-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP and LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

SEED SCHEDULES

ISSUE NUMBER: —

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: L-504

P:\PROJECTS\13290.101 - MARQUETTE LS SHORELINE RESTORATION\PRE-DESIGN\CAD\SHEETS\L-501 LANDSCAPE DETAILS.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

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PLANT LIST

CODE	SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	QTY
Trees					
ABIBAL	*Abies balsamea*	Balsam Fir	6' Ht.	B&B	9
ACERUB	*Acer rubrum*	Red Maple	2 1/2" Cal.	B&B	9
ACESAC	*Acer saccharum*	Sugar Maple	2 1/2" Cal.	B&B	6
BETPAP	*Betula papyrifera*	Paper Birch	10-12' Multi-stem	B&B	19
PINRES	*Pinus resinosa*	Red Pine	6' Ht.	B&B	2
PINSTR	*Pinus strobus*	Eastern White Pine	6' Ht.	B&B	10
POPBAL	*Populus balsamifera*	Balsam Poplar	2 1/2" Cal.	B&B	4
POPGRA	*Populus grandidentata*	Bigtooth Aspen	2 1/2" Cal.	B&B	14
QUERUB	*Quercus rubra*	Northern Red Oak	2 1/2" Cal.	B&B	14
THUOCC	*Thuja occidentalis*	Eastern White Cedar	6' Ht.	B&B	6

DUNE

02

SCIENTIFIC NAME	COMMON NAME	ROOT	QTY	SPACING
Perennials				
Ammophila breviligulata	Dune Grass	Stolon	26,055	24" O.C.

GREAT LAKES BARRENS - PLANTING ZONE A

02

SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	QTY	SPACING
Shrubs					
Arctostaphylos uva-ursi	Kinnikinnick Bearberry	#1	Container	49	5' O.C.
Aronia prunifolia	Purple Chokeberry	#5	Container	49	5' O.C.
Corylus americana	Hazelnut	#5	Container	49	5' O.C.
Gaylussacia baccata	Black Huckleberry	#3	Container	49	5' O.C.
Juniperus horizontalis	Creeping Juniper	#3	Container	49	5' O.C.
Prunus pumila	Sand Cherry	#3	Container	49	5' O.C.
Salix cordata	Sand Dune Willow	#3	Container	49	5' O.C.
Perennials					
Arabis lyrata	Lyrate Rockcress	11 cubic inches soil min.	Plug	544	5' O.C.
Artemisia ludoviciana	White Sage	11 cubic inches soil min.	Plug	544	5' O.C.
Asclepias tuberosa	Butterfly Milkweed	11 cubic inches soil min.	Plug	544	5' O.C.
Calamovilfa longifolia	Prairie Sandreed	11 cubic inches soil min.	Plug	544	5' O.C.
Coreopsis lanceolata	Lance-leaf Coreopsis	11 cubic inches soil min.	Plug	544	5' O.C.
Echinacea purpurea	Purple Coneflower	11 cubic inches soil min.	Plug	544	5' O.C.
Lathyrus japonicus	Beach Pea	11 cubic inches soil min.	Plug	544	5' O.C.
Liatris aspera	Liatris	11 cubic inches soil min.	Plug	544	5' O.C.
Pteridium aquilinum	Western Brackenfern	11 cubic inches soil min.	Plug	544	5' O.C.
Schizachyrium scoparium	Little Bluestem	11 cubic inches soil min.	Plug	544	5' O.C.

Plant shrubs in groups of 3-7 of the same species, spaced 5' O.C. distributed randomly throughout the planting zone.
Plant perennial plugs in groupings of 5 of the same speices at 5' O.C., evenly distributed throughout the planting zone.

GREAT LAKES BARRENS - PLANTING ZONE C

02

SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	QTY	SPACING
Shrubs					
Amelanchier alnifolia	Saskatoon Serviceberry	#5	Container	30	5' O.C.
Arctostaphylos uva-ursi	Kinnikinnick Bearberry	#1	Container	30	5' O.C.
Aronia prunifolia	Purple Chokeberry	#5	Container	30	5' O.C.
Corylus americana	Hazelnut	#5	Container	30	5' O.C.
Potentilla fruticosa	Shrubby Cinquefoil	#3	Container	30	5' O.C.
Salix cordata	Sand Dune Willow	#3	Container	30	5' O.C.
Vaccinium myrtilloides	Velvet Leaf Huckleberry	#3	Container	30	5' O.C.

Plant shrubs in groups of 3-7 of the same species, spaced 5' O.C. distributed randomly throughout the planting zone.

GREAT LAKES MARSH

02

SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	QTY	SPACING
Shrubs					
Betula pumila	Bog Birch	#5	Container	22	5' O.C.
Cornus stolonifera	Red Osier Dogwood	#3	Container	22	5' O.C.
Myrica gale	Sweetgale	#3	Container	22	5' O.C.
Salix serissima	Autumn Willow	#3	Container	22	5' O.C.
Vaccinium macrocarpon	Cranberry	#3	Container	22	5' O.C.
Perennials					
Carex stricta	Tussock Sedge	11 cubic inches soil min.	Plug	137	5' O.C.
Carex lasiocarpa	Woollyfruit Sedge	11 cubic inches soil min.	Plug	137	5' O.C.
Cladium mariscoides	Smooth Sawgrass	11 cubic inches soil min.	Plug	137	5' O.C.
Comptonia peregrina	Sweet Fern	11 cubic inches soil min.	Plug	137	5' O.C.
Hierochloe hirta	Northern Sweetgrass	11 cubic inches soil min.	Plug	137	5' O.C.
Iris lacustris	Dwarf Lake Iris	11 cubic inches soil min.	Plug	137	5' O.C.
Juncus balticus	Baltic Rush	11 cubic inches soil min.	Plug	137	5' O.C.
Schoenoplectus acutus	Hardstem Bulrush	11 cubic inches soil min.	Plug	137	5' O.C.
Sparganium natans	Small Bur-reed	11 cubic inches soil min.	Plug	137	5' O.C.
Spiraea alba	Meadowsweet	11 cubic inches soil min.	Plug	137	5' O.C.
Thelypteris palustris	Marsh Fern	11 cubic inches soil min.	Plug	137	5' O.C.
Triglochin maritima	Seaside arrowgrass	11 cubic inches soil min.	Plug	137	5' O.C.

Plant shrubs in groups of 3-7 of the same species, spaced 5' O.C. distributed randomly throughout the planting zone.
Plant perennial plugs in groupings of 5 of the same speices at 5' O.C., evenly distributed throughout the planting zone.

EMERGENT PLUGS

02

SCIENTIFIC NAME	COMMON NAME	SIZE	ROOT	QTY	SPACING
Perennials					
Calamagrostis canadensis	Bluejoint Grass	11 cubic inches soil min.	Plug	286	24" O.C.
Iris lacustris	Dwarf Lake Iris	11 cubic inches soil min.	Plug	286	24" O.C.
Schoenoplectus acutus	Hardstem Bulrush	11 cubic inches soil min.	Plug	286	24" O.C.
Schoenoplectus americanus	Chainmaker's Bulrush	11 cubic inches soil min.	Plug	286	24" O.C.
Spiraea alba	Meadowsweet	11 cubic inches soil min.	Plug	286	24" O.C.
Sparganium natans	Small Bur-reed	11 cubic inches soil min.	Plug	286	24" O.C.

SCALE: VARIES

BID DOCUMENTS FOR CONSTRUCTION

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SLL	SLL	MJO	RR	2023-02-21
D	2	ADDENDUM 6	SLL	SLL	MJO	RR	2023-11-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

PLANT SCHEDULES

ISSUE NUMBER: —

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: L-505

P:\HOGO ECOLOGICAL NAS\PROJECTS\13290.101 RES-SWP MARQUETTE\CAD\SHEETS\L-501 LANDSCAPE DETAILS.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

City of Marquette, MI

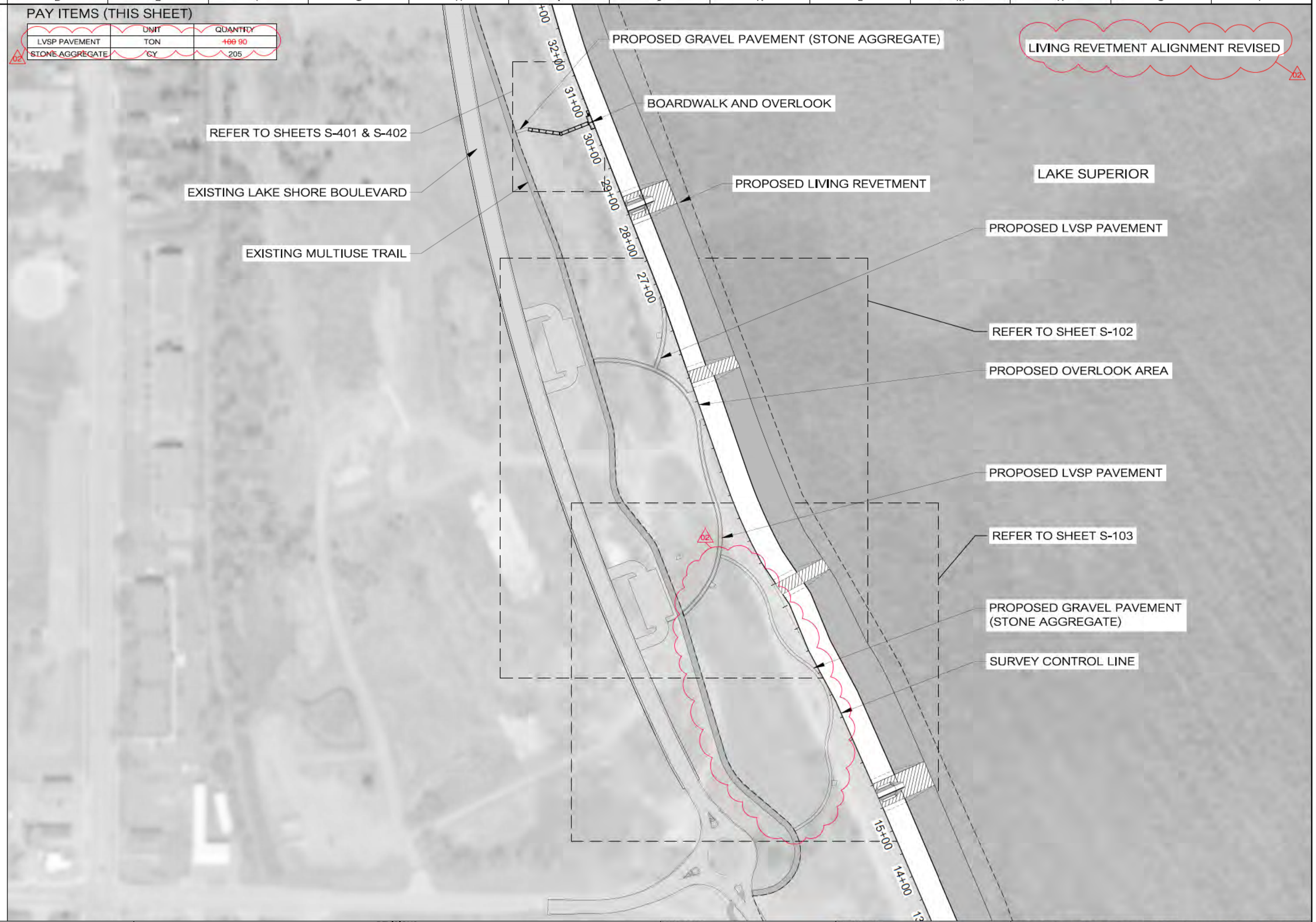
KEY MAP



PAY ITEMS (THIS SHEET)

	UNIT	QUANTITY
LVSP PAVEMENT	TON	~~100~~ 90
STONE AGGREGATE	CY	205

02



0 100 200 FEET

SCALE = 1:100

N

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	AIM	MRS	--	2022-02-21
D	2	REVISED PATH LAYOUT AND QUANTITIES UPDATED	SM	AIM	MRS	--	2023-11-21

PREPARED FOR:

PREPARED BY:

Baird.

IN ASSOCIATION WITH:

res

Foth

MARQUETTE LS SHORELINE RESTORATION

PATH AND OVERLOOK SITE PLAN

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

SHEET NUMBER: S-101

P:\13290_101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\06_CADD\INCOMING\20220309_FINAL DESIGN CAD (FROM FOTH)\MARQUETTE_PROP_SXM.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



COORDINATE TABLE/NOTES

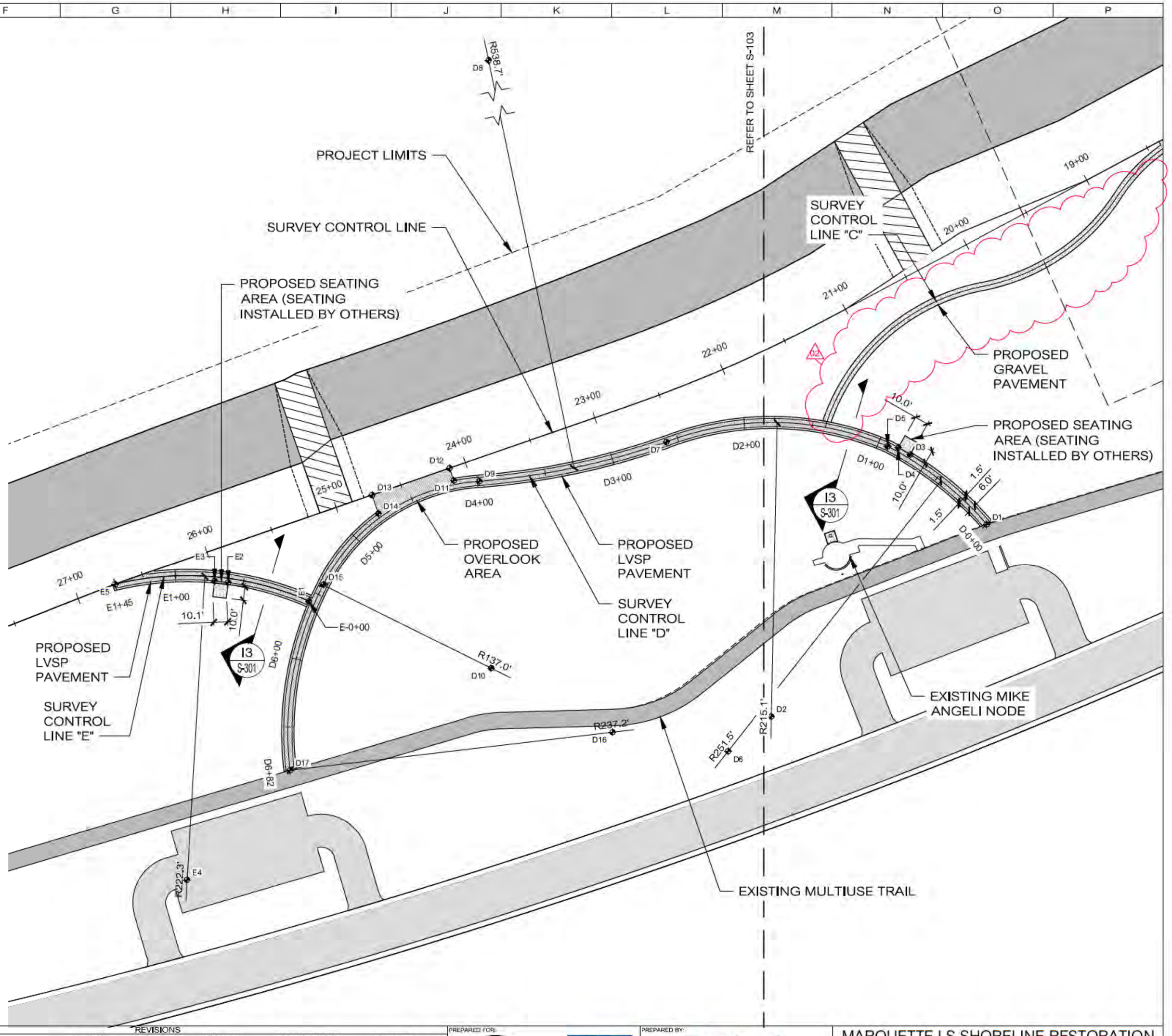
PROJECT COORDINATES

POINT NO.	EASTING	NORTHING	ELEV.
D1	26148259.38	650142.69	611.9
D2	26148118.83	650300.07	0.0
D3	26148310.54	650198.75	610.2
D4	26148315.60	650207.38	609.9
D5	26148316.47	650215.25	609.7
D6	26148093.56	650331.88	0.0
D7	26148319.68	650376.98	607.7
D8	26148828.13	650555.09	0.0
D9	26148290.98	650513.68	606.5
D10	26148154.28	650504.93	0.0
D11	26148291.57	650532.24	606.0
D12	26148300.63	650535.38	605.4
D13	26148280.98	650592.08	605.5
D14	26148267.40	650587.37	606.7
D15	26148215.31	650627.56	608.8
D16	26148107.46	650416.32	0.0
D17	26148079.68	650651.87	611.2
E1	26148203.26	650638.16	609.1
E2	26148216.82	650697.19	607.8
E3	26148217.96	650707.12	607.7
E4	26147999.60	650727.22	0.0
E5	26148215.59	650779.75	606.1

LEGEND

- LVSP PAVEMENT
- GRAVEL PAVEMENT
- PROJECT COORDINATE B7

REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN



0 40 80 FEET

SCALE = 1:40

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	PST	JED	MJC	--	2022-02-21
D	2	REVISED PATH	SM	AIM	MRS	--	2023-11-21

PREPARED FOR: City of Marquette, Michigan; Superior Watershed Partnership (LAKE SUPERIOR)

PREPARED BY: Baird.

IN ASSOCIATION WITH: res; Foth

MARQUETTE LS SHORELINE RESTORATION

PATH LAYOUT (SHEET 1 OF 2)

ISSUE NUMBER: 1

ISSUE DATE: 2022-02-21

PROJECT NUMBER: 13290.101

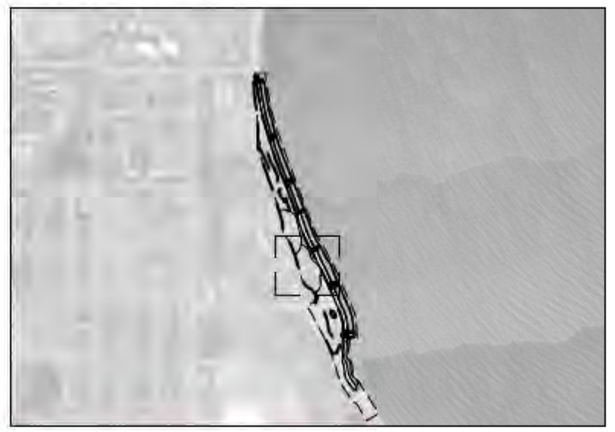
SHEET NUMBER: S-102

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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

City of Marquette, MI

KEY MAP



REFER TO C-107 TO C-109 FOR WATERFRONT LAYOUT PLAN

COORDINATE TABLE/NOTES

PROJECT COORDINATES

POINT NO.	EASTING	NORTHING	ELEV.
C1	26148482.47	649708.72	612.6
C2	26148502.75	649721.31	612.0
C3	26148447.85	649813.64	0.0
C4	26148557.27	649798.82	609.3
C5	26148567.23	649797.92	609.4
C6	26148568.12	649807.89	609.3
C7	26148558.16	649808.78	609.1
C8	26148550.76	649844.41	608.0
C9	26148648.17	649873.53	0.0
C10	26148551.28	649904.34	608.5
C11	26148500.20	650046.83	609.2
C12	26148432.42	649942.13	0.0
C13	26148551.13	649989.26	609.1
C14	26148553.51	649990.54	0.0
C15	26148539.35	650016.98	0.0
C16	26148536.86	650015.65	609.0
C17	26148433.42	650145.75	609.5
C18	26148582.99	650174.71	0.0
C19	26148330.31	650260.93	610.2
C20	26148285.56	650117.12	0.0

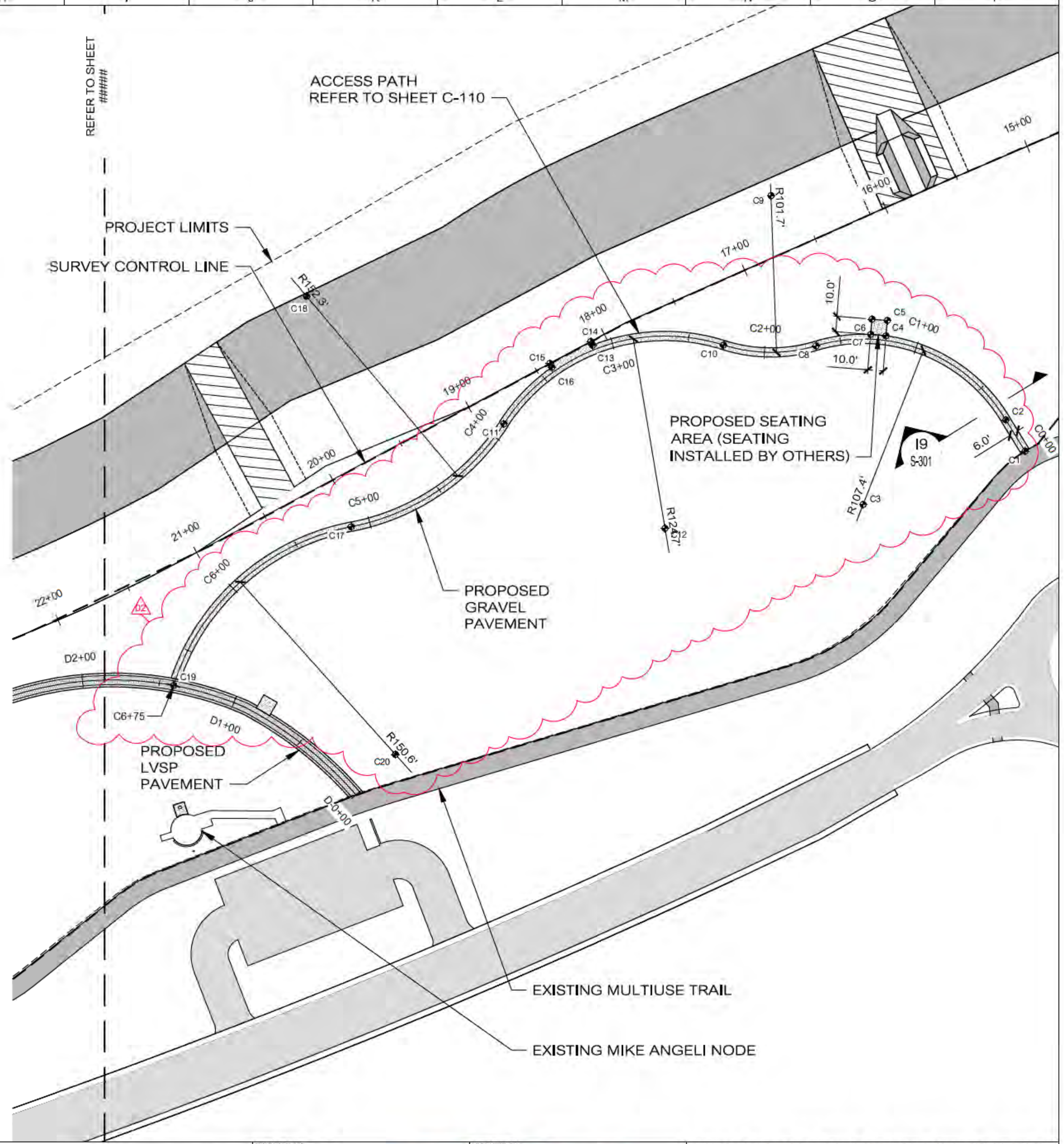
01

LEGEND

GRAVEL PAVEMENT

LVSP PAVEMENT

PROJECT COORDINATE B7



0 40 80 FEET

SCALE = 1:40

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
(A) PRELIMINARY							
(B) DESIGN							
(C) PERMIT	D	1 BID DOCUMENTS	PST	JED	MJC	--	2022-02-21
	D	2 REVISED PATH LAYOUT	SM	AIM	MRS	--	2023-11-21
(D) TENDER							
(E) CONSTRUCTION							
(F) RECORD							

PREPARED FOR: MARQUETTE MICHIGAN; SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res; Foth

MARQUETTE LS SHORELINE RESTORATION

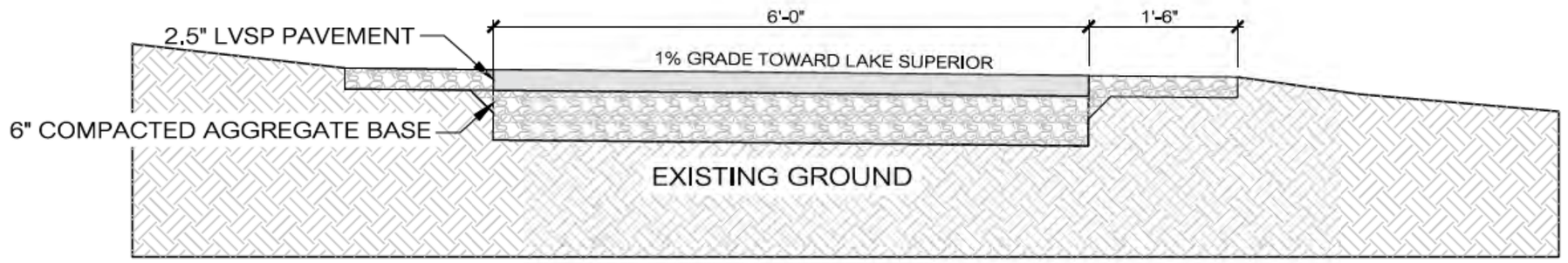
PATH LAYOUT (SHEET 2 OF 2)

ISSUE NUMBER: | ISSUE DATE: 2022-02-21 | SHEET NUMBER: S-103

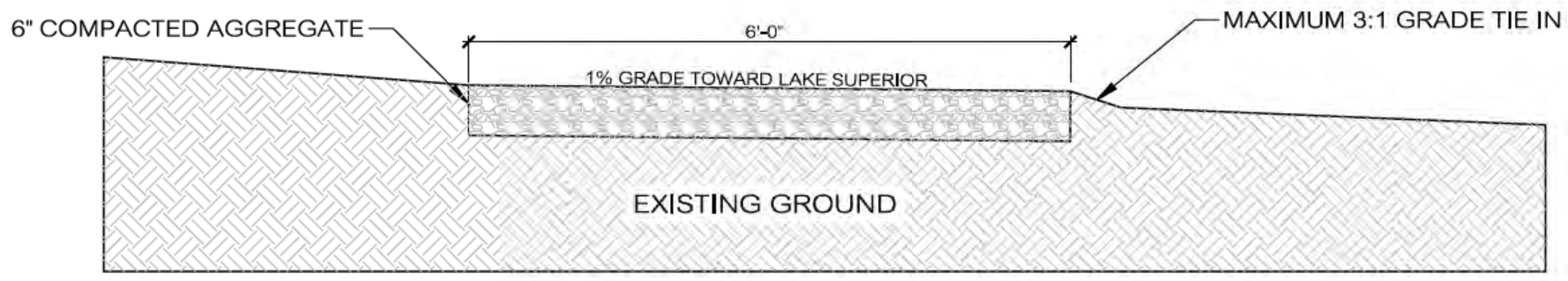
PROJECT NUMBER: 13290.101

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADDWORKING\B-DESIGN\02_PRELIMINARY DESIGN\S-103.DWG



I3 / S-301 TYPICAL LVSP PAVEMENT SECTION
SCALE = 1:4



I9 / S-301 TYPICAL GRAVEL PAVEMENT SECTION
SCALE = 1:4

LEGEND

- EXISTING GROUND
- LVSP PAVEMENT
- AGGREGATE

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	AM	MRS	--	2022-02-21

(A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PREPARED FOR: City of Marquette, Michigan

Superior Watershed Partnership & Land Conservancy

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

TYPICAL PAVEMENT SECTIONS

ISSUE NUMBER: 1 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: S-301

PROJECT NUMBER: 13290.101

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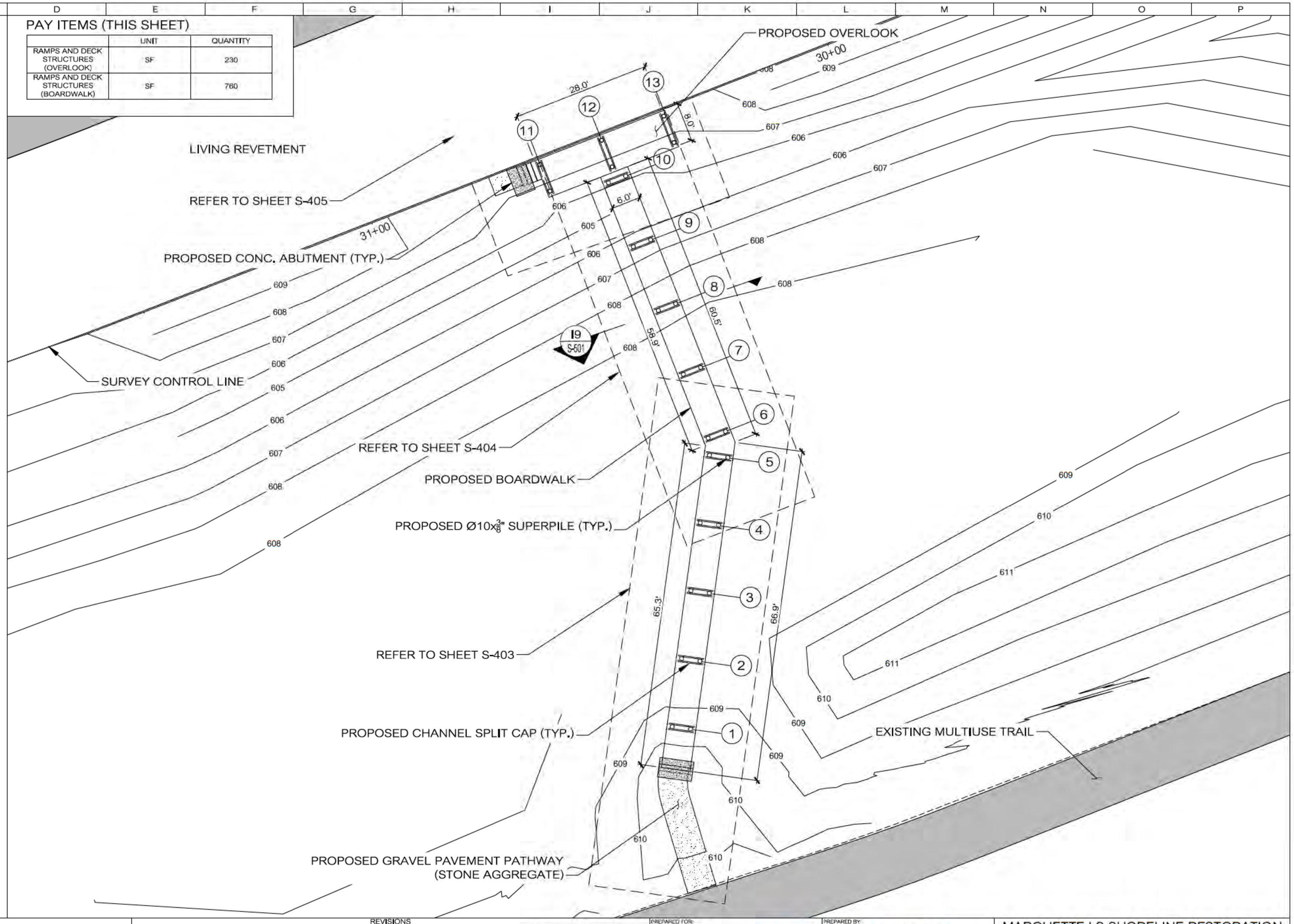
PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

KEY MAP



PAY ITEMS (THIS SHEET)

	UNIT	QUANTITY
RAMPS AND DECK STRUCTURES (OVERLOOK)	SF	230
RAMPS AND DECK STRUCTURES (BOARDWALK)	SF	760



LEGEND

- GRAVEL PAVEMENT
- CONCRETE
- STONE SLOPE
- STONE CREST

0 10 20 FEET

SCALE = 1:10

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	AM	MRS	--	2022-02-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP & LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

PILE, PILE CAP AND CONCRETE FOUNDATION PLAN

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

SHEET NUMBER: S-401

PROJECT NUMBER: 13290.101

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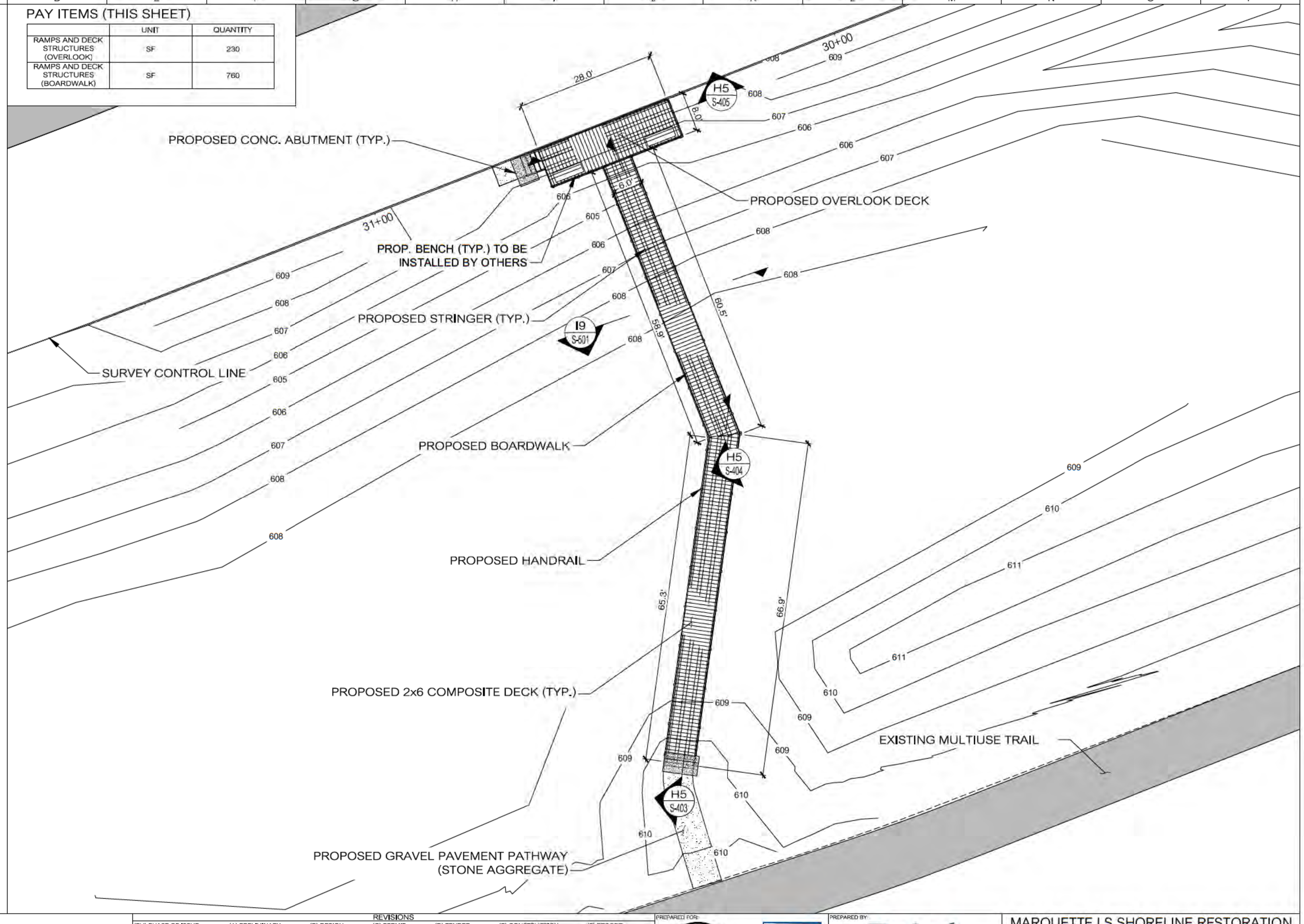
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

KEY MAP



PAY ITEMS (THIS SHEET)

	UNIT	QUANTITY
RAMPS AND DECK STRUCTURES (OVERLOOK)	SF	230
RAMPS AND DECK STRUCTURES (BOARDWALK)	SF	760



LEGEND

- GRAVEL PAVEMENT
- CONCRETE
- STONE SLOPE
- STONE CREST
- COMPOSITE DECK

0 10 20 FEET

SCALE = 1:10

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	ABM	MRS	--	2022-02-21

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

FRAMING AND DECK PLAN VIEW

ISSUE NUMBER: 1

ISSUE DATE: 2022-02-21

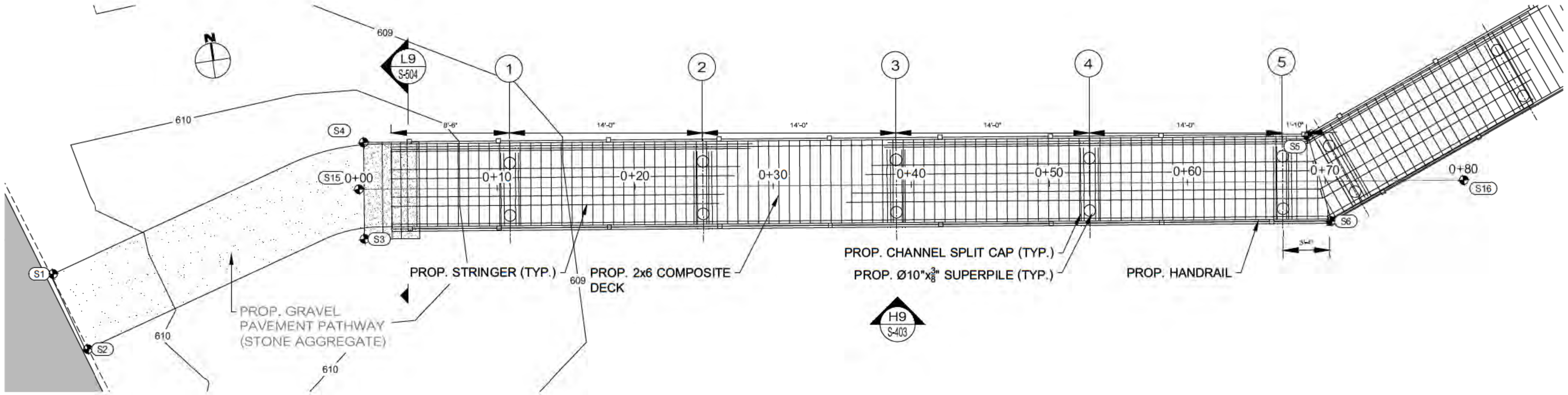
PROJECT NUMBER: 13290.101

SHEET NUMBER: S-402

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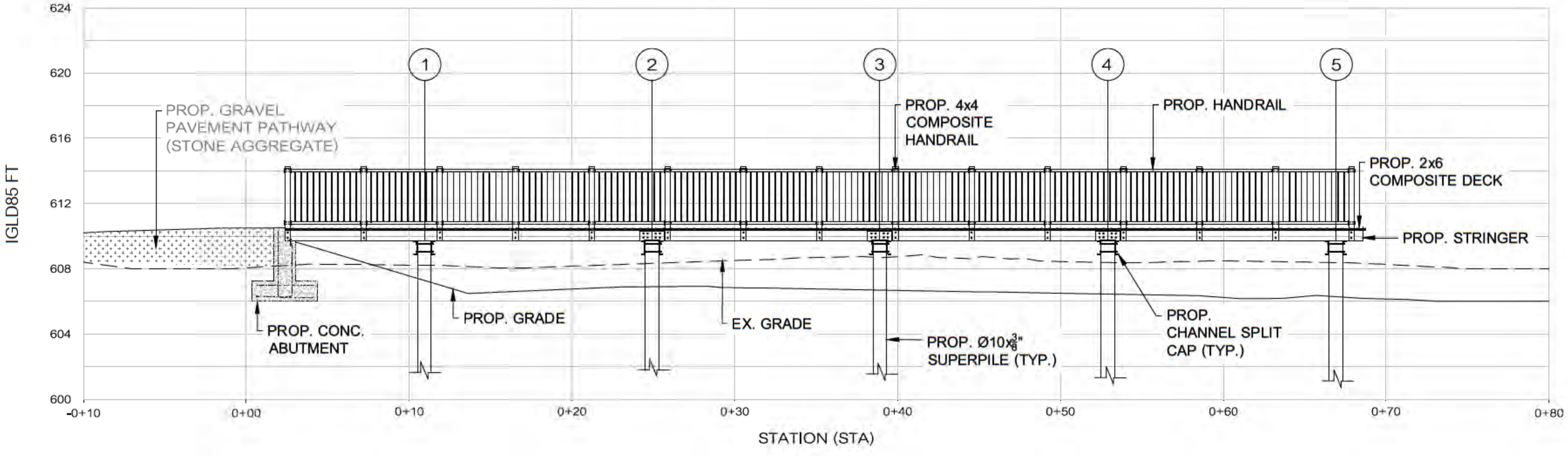
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

City of Marquette, MI



H5 / S-403 **BOARDWALK PLAN VIEW 1 OF 2**
SCALE = 1:4

PROPOSED STRUCTURE COORDINATES		
POINT NO.	EASTING	NORTHING
S1	26147922.37	651114.65
S2	26147924.09	651108.90
S3	26147945.07	651113.90
S4	26147946.02	651120.83
S5	26148013.79	651111.40
S6	26148014.54	651105.08
S7	26148068.59	651132.85
S8	26148070.78	651127.26
S9	26148074.79	651117.02
S10	26148082.24	651119.94
S11	26148072.03	651146.01
S12	26148070.58	651149.74
S13	26148066.85	651148.28
S14	26148064.58	651143.10
S15	26147945.19	651117.52
S16	26148024.45	651106.63
S17	26148013.67	651107.64
S18	26148069.54	651129.51
S19	26148078.59	651117.57
S20	26148067.65	651145.51



H9 / S-403 **BOARDWALK PROFILE VIEW 1 OF 2**
SCALE = 1:4

0 4 8 FEET
SCALE = 1:4

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE: (A) PRELIMINARY (B) DESIGN (C) PERMIT (D) TENDER (E) CONSTRUCTION (F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	ABH	MRB	--	2022-02-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res Foth

MARQUETTE LS SHORELINE RESTORATION

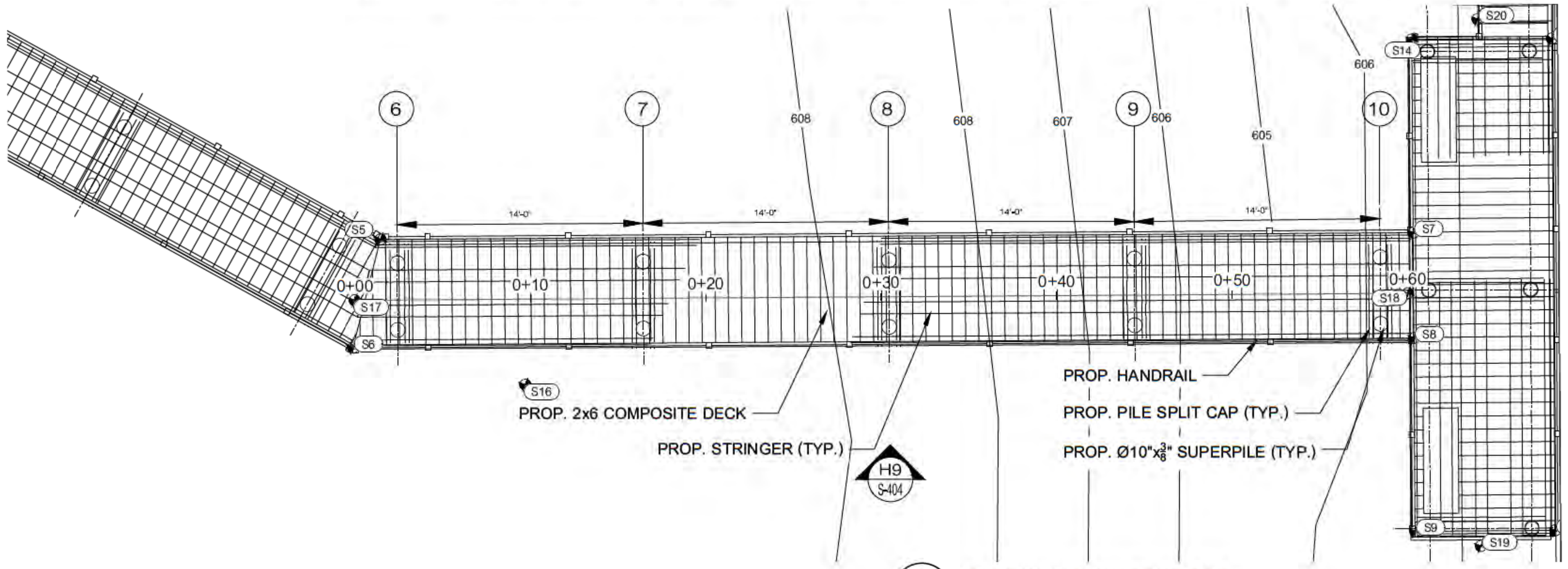
BOARDWALK PLAN AND PROFILE (SHEET 1 OF 2)

ISSUE NUMBER: 1 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: S-403

PROJECT NUMBER: 13290.101

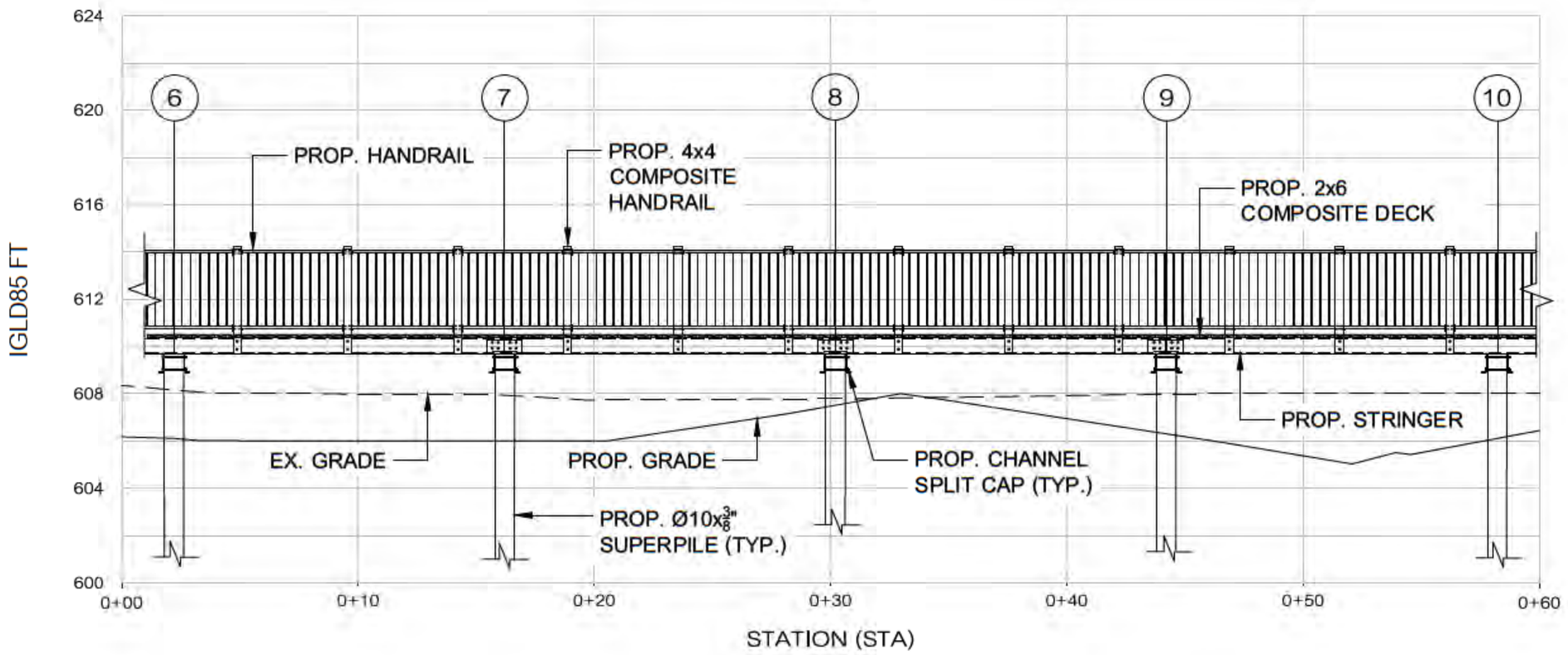
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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES



H5 / S-404 **BOARDWALK PLAN VIEW 2 OF 2**
SCALE = 1:4

PROPOSED STRUCTURE COORDINATES		
POINT NO.	EASTING	NORTHING
S1	26147922.37	651114.65
S2	26147924.09	651108.90
S3	26147945.07	651113.90
S4	26147946.02	651120.83
S5	26148013.79	651111.40
S6	26148014.54	651105.08
S7	26148068.59	651132.85
S8	26148070.78	651127.26
S9	26148074.79	651117.02
S10	26148082.24	651119.94
S11	26148072.03	651146.01
S12	26148070.58	651149.74
S13	26148066.85	651148.28
S14	26148064.58	651143.10
S15	26147945.19	651117.52
S16	26148024.45	651106.63
S17	26148013.67	651107.64
S18	26148069.54	651129.51
S19	26148078.59	651117.57
S20	26148067.65	651145.51



H9 / S-404 **BOARDWALK PROFILE VIEW 2 OF 2**
SCALE = 1:4

0 4 8
FEET
SCALE = 1:4

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	BM	ABM	MRS	--	2022-02-21

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

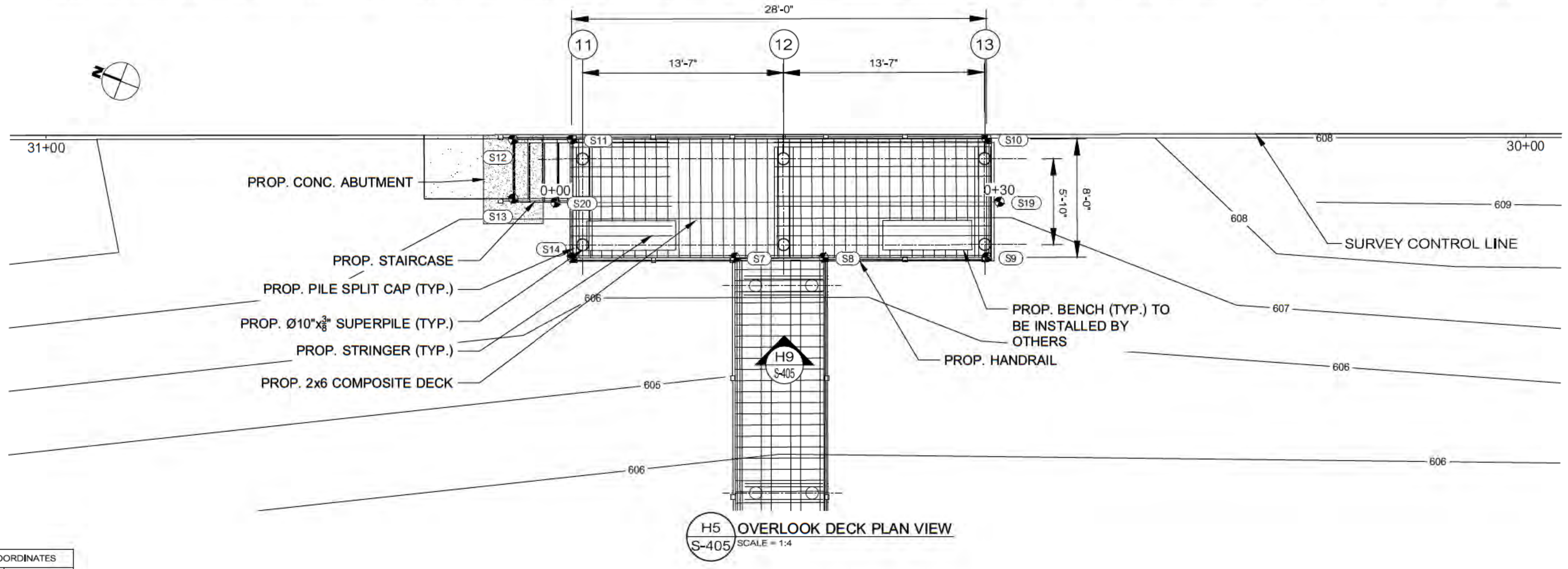
PREPARED BY: Baird.
IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION
BOARDWALK PLAN AND PROFILE (SHEET 2 OF 2)

ISSUE NUMBER:
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: S-404

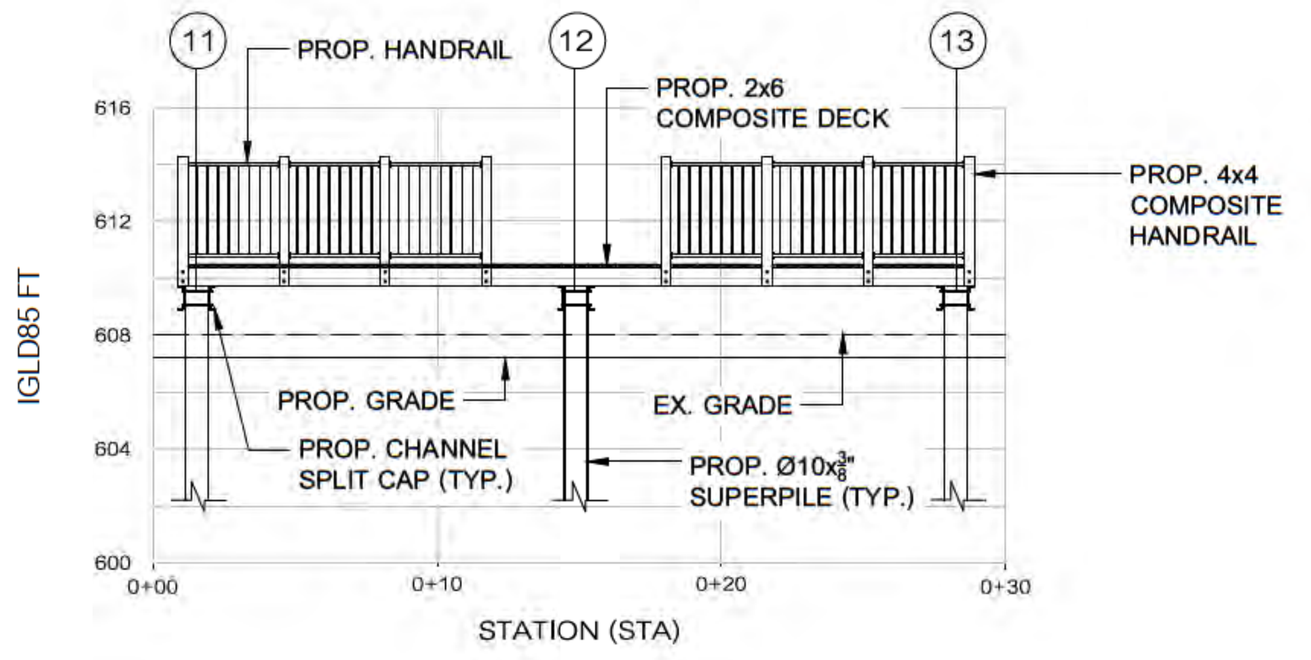
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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES



H5 / S-405 OVERLOOK DECK PLAN VIEW
SCALE = 1:4

PROPOSED STRUCTURE COORDINATES		
POINT NO.	EASTING	NORTHING
S1	26147922.37	651114.65
S2	26147924.09	651108.90
S3	26147945.07	651113.90
S4	26147946.02	651120.83
S5	26148013.79	651111.40
S6	26148014.54	651105.08
S7	26148068.59	651132.85
S8	26148070.78	651127.26
S9	26148074.79	651117.02
S10	26148082.24	651119.94
S11	26148072.03	651146.01
S12	26148070.58	651149.74
S13	26148066.85	651148.28
S14	26148064.58	651143.10
S15	26147945.19	651117.52
S16	26148024.45	651106.63
S17	26148013.67	651107.64
S18	26148069.54	651129.51
S19	26148078.59	651117.57
S20	26148067.65	651145.51



H9 / S-405 OVERLOOK DECK ELEVATION VIEW
SCALE = 1:4

0 4 8 FEET
SCALE = 1:4

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	(A) PRELIMINARY	(B) DESIGN	(C) PERMIT	(D) TENDER	(E) CONSTRUCTION	(F) RECORD

PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	ABH	MRB	--	2022-02-21

PREPARED FOR: CITY OF MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

PLATFORM PLAN AND ELEVATION

ISSUE NUMBER:

ISSUE DATE: 2022-02-21

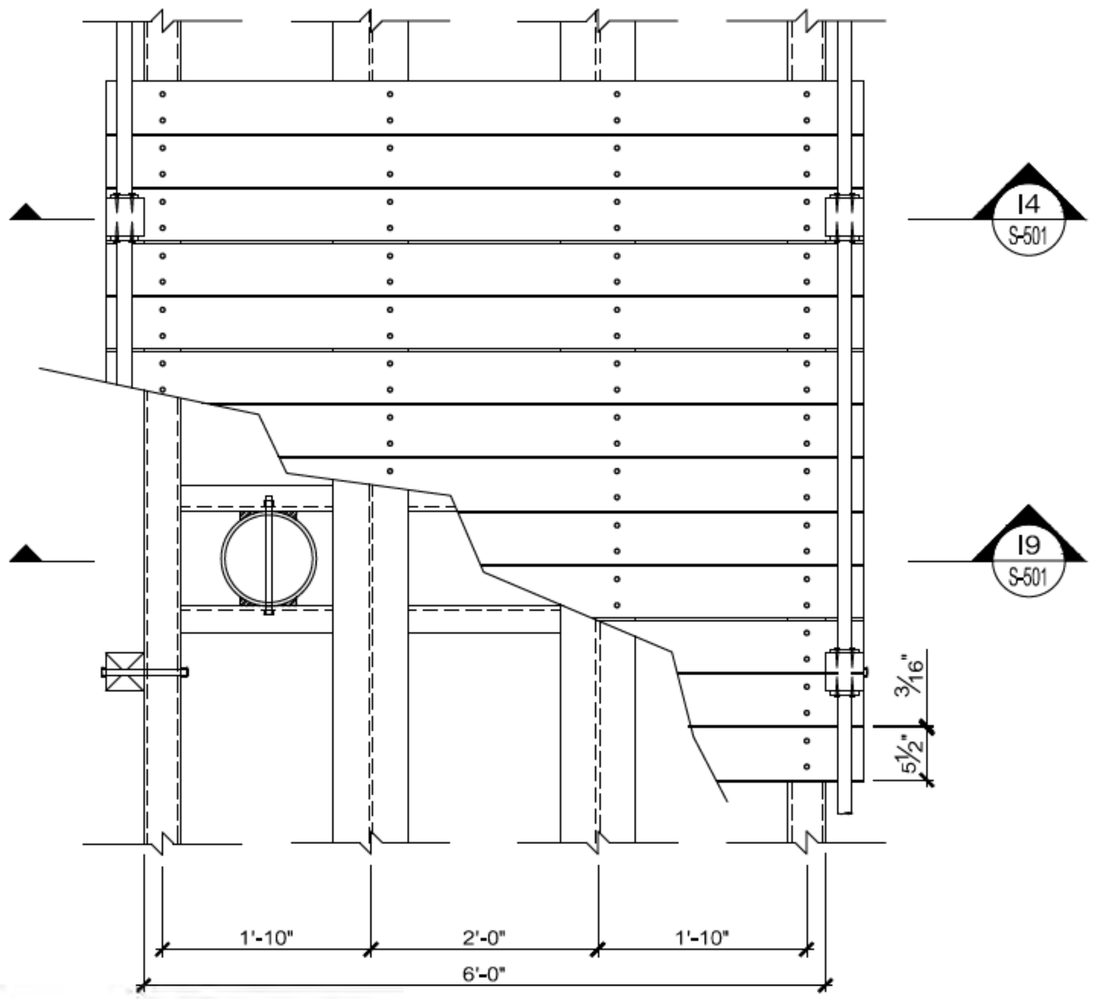
SHEET NUMBER: S-405

PROJECT NUMBER: 13290.101

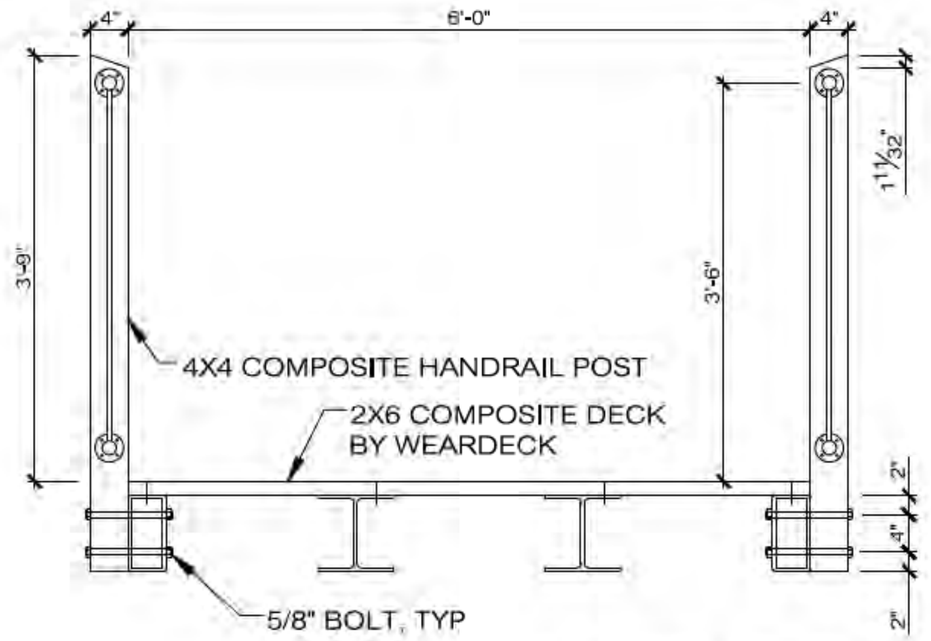
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PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

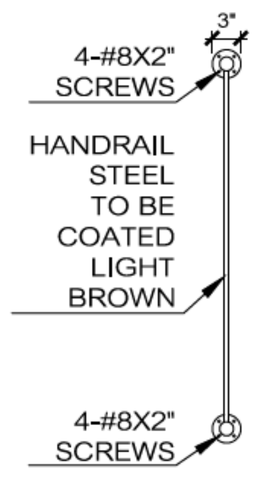
City of Marquette, MI

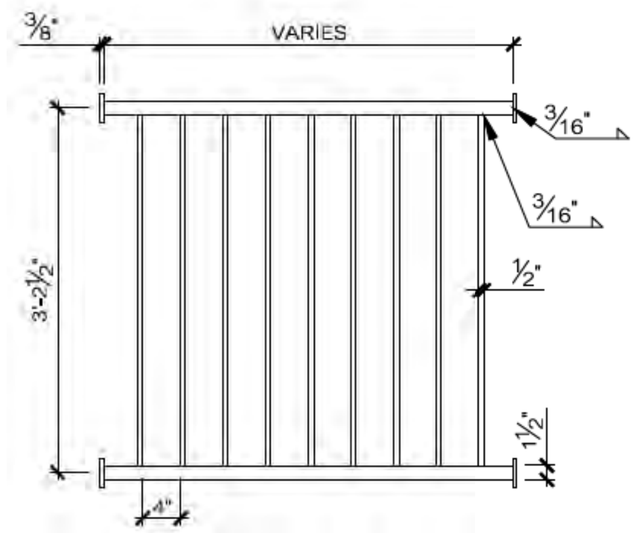


C6 S-501 **BOARDWALK PLAN**
SCALE = 1:1

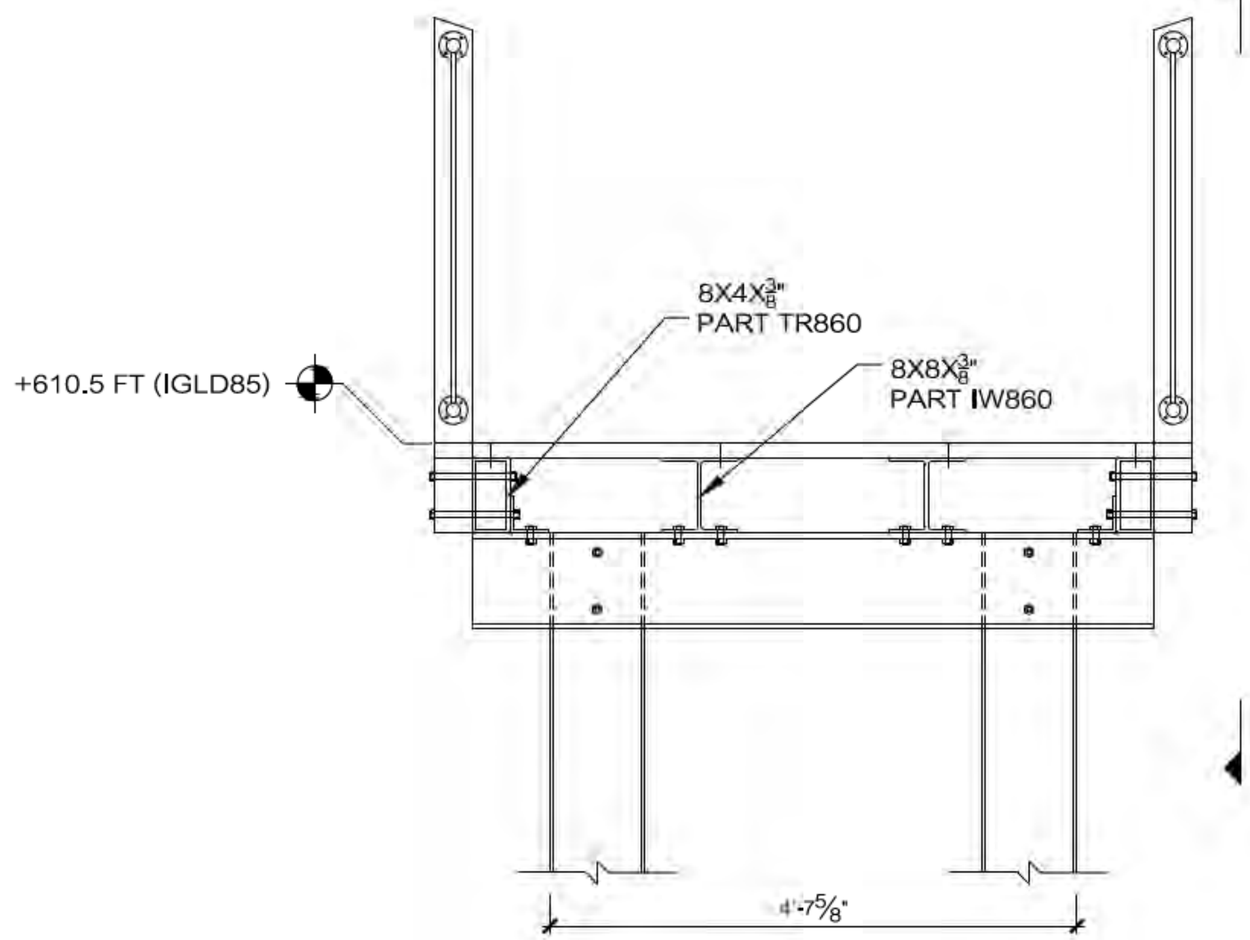


I4 S-501 **BOARDWALK SECTION BETWEEN PILES**
SCALE = 1:1

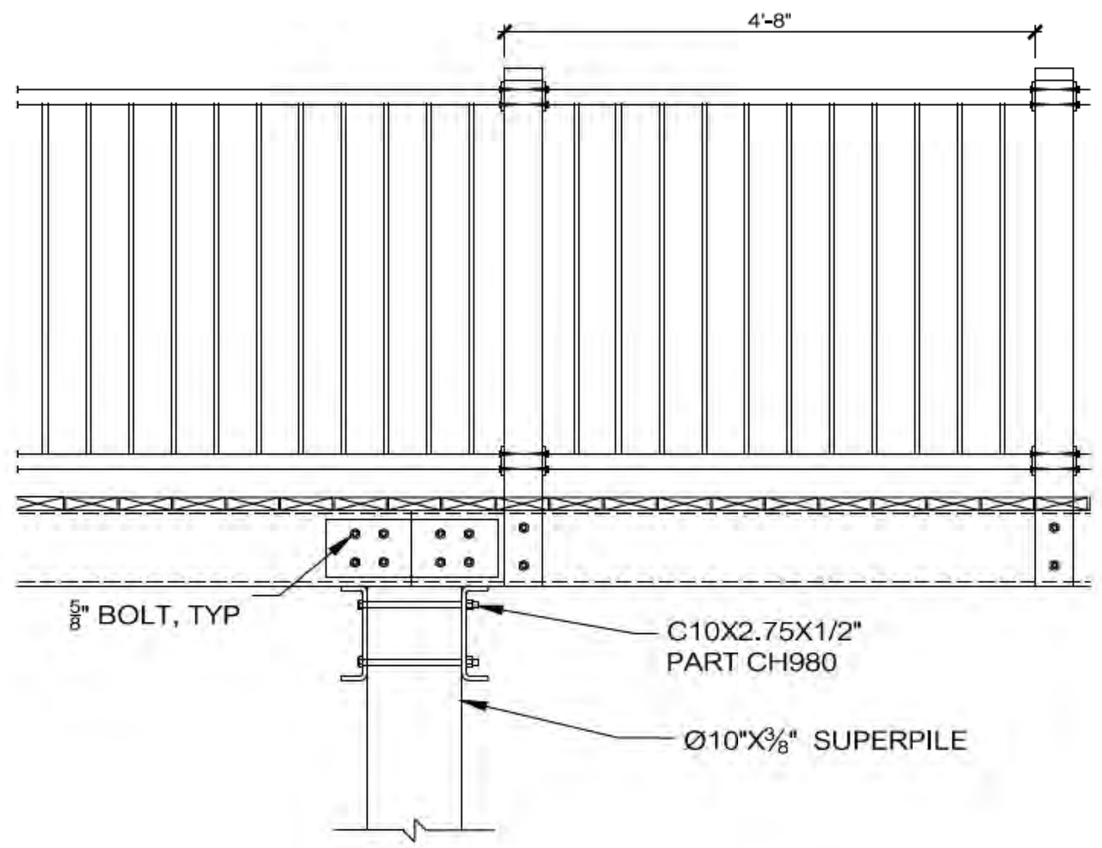




N3 S-501 **HANDRAIL DETAIL**
SCALE = 1:1



I9 S-501 **BOARDWALK SECTION AT PILE SUPPORT**
SCALE = 1:1



M9 S-501 **CROSS SECTION AND RAILING**
SCALE = 1:1

NOTES:
1. BOLTS SHALL BE GALV. ASTM A325 GRADE FIVE COARSE THREADED BOLTS WITH GRADE 8 OVERSIZED WASHERS.
2. DECK BOARDS TO BE FASTENED USING 2-2.5" STAINLESS STEEL COMPOSITE DECK SCREWS AT EACH SUPPORT.
3. STRUCTURAL MEMBERS ARE PULTEX SUPERSTRUCTURAL COMPOSITE PROFILES.

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY			(B) DESIGN		(C) PERMIT		(D) TENDER		(E) CONSTRUCTION			(F) RECORD		
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	ABI	MRE	--	2022-02-21								

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND INITIATIVE

PREPARED BY: Baird.

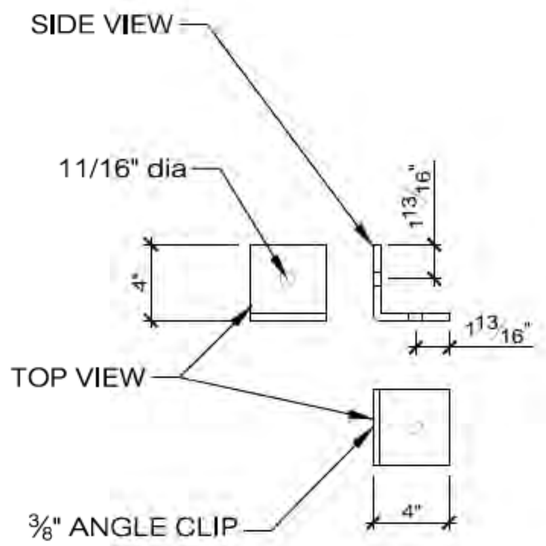
IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION
COMPOSITE BOARDWALK DETAILS (SHEET 1 OF 2)

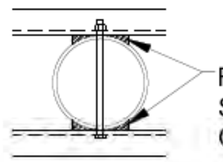
ISSUE NUMBER:
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: S-501

P:\13290\101 MARQUETTE SHORELINE RESTORATION_CAD\INCOMING\20220309_FINAL DESIGN CAD (FROM FOTH)\FOTH BOARDWALK PLATFORM DESIGN.DWG

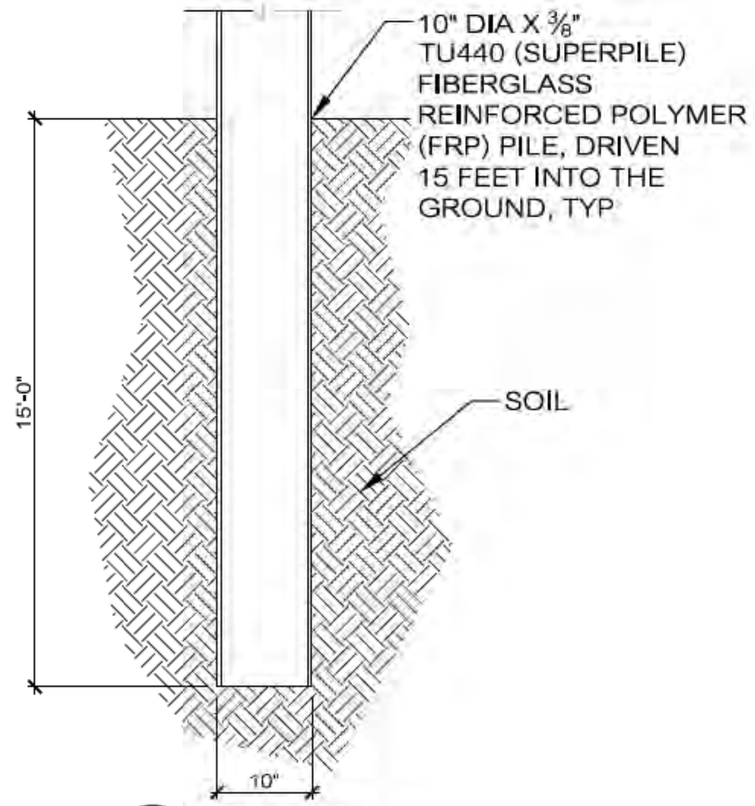
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES



I2 S-502 **CLIP DETAIL**
SCALE = 1:1/2



C8 S-502 **SHEAR WASHER DETAIL**
SCALE = 1:1



I9 S-502 **PILE DETAIL**
N.T.S.

NOTES:
1. BOLTS SHALL BE GALV. ASTM A325 GRADE FIVE COARSE THREADED BOLTS WITH GRADE 8 OVERSIZED WASHERS.
2. DECK BOARDS TO BE FASTENED USING 2-2.5" STAINLESS STEEL COMPOSITE DECK SCREWS AT EACH SUPPORT.
3. STRUCTURAL MEMBERS ARE PULTEX SUPERSTRUCTURAL COMPOSITE PROFILES.
4. OBSTRUCTIONS MAY BE ENCOUNTERED DURING THE INSTALLATION OF PILES, GIVEN THE PREVIOUS LAND USES OF THE SITE

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY					(B) DESIGN				(C) PERMIT					(D) TENDER				(E) CONSTRUCTION					(F) RECORD				
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
D	1	BID DOCUMENTS	SM	AM	MRB	--	2022-02-21																								

PREPARED FOR: City of Marquette, MI

PREPARED BY: Baird.
IN ASSOCIATION WITH: res, Foth

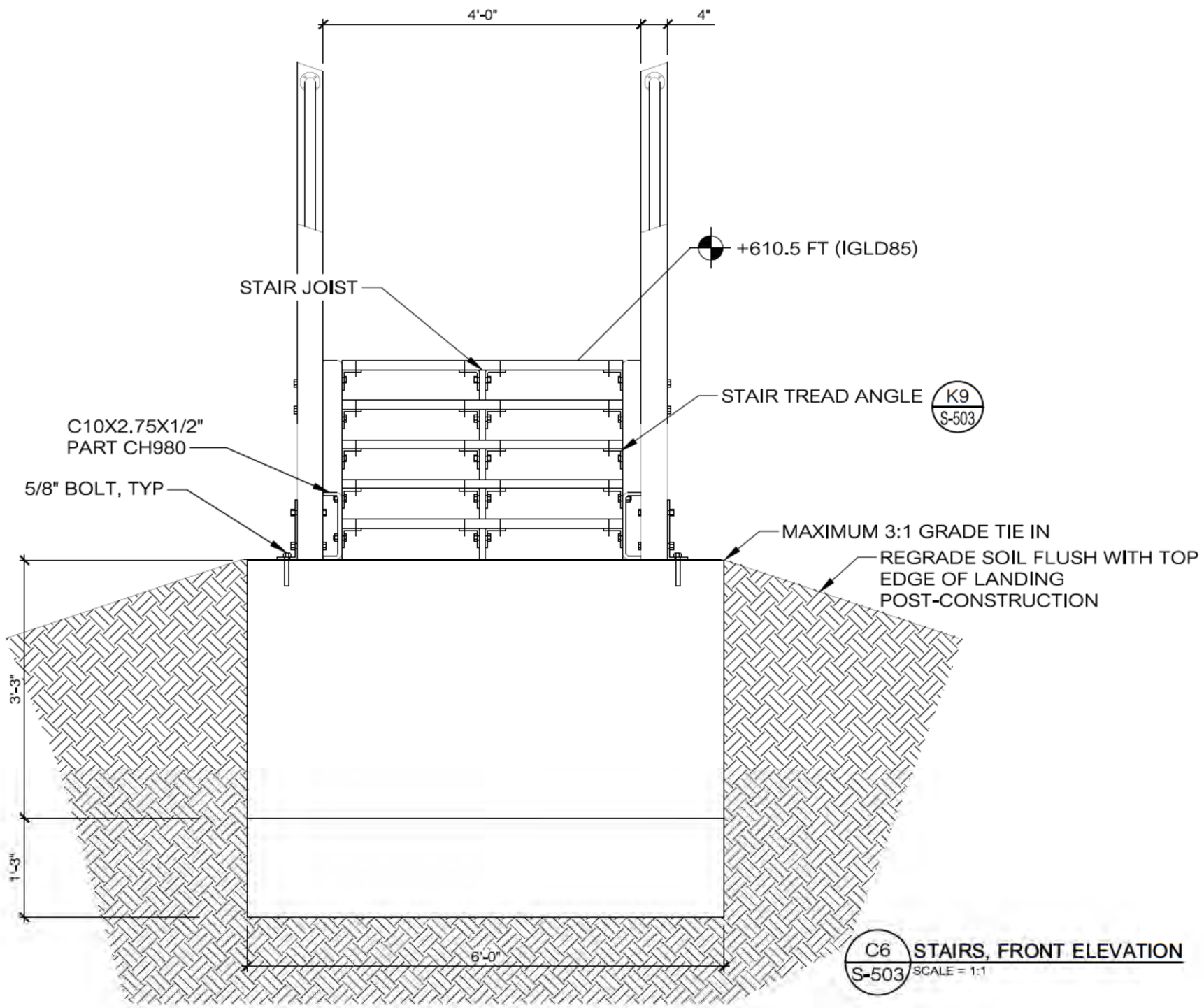
MARQUETTE LS SHORELINE RESTORATION
COMPOSITE BOARDWALK DETAILS (SHEET 2 OF 2)

ISSUE NUMBER: | ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: S-502

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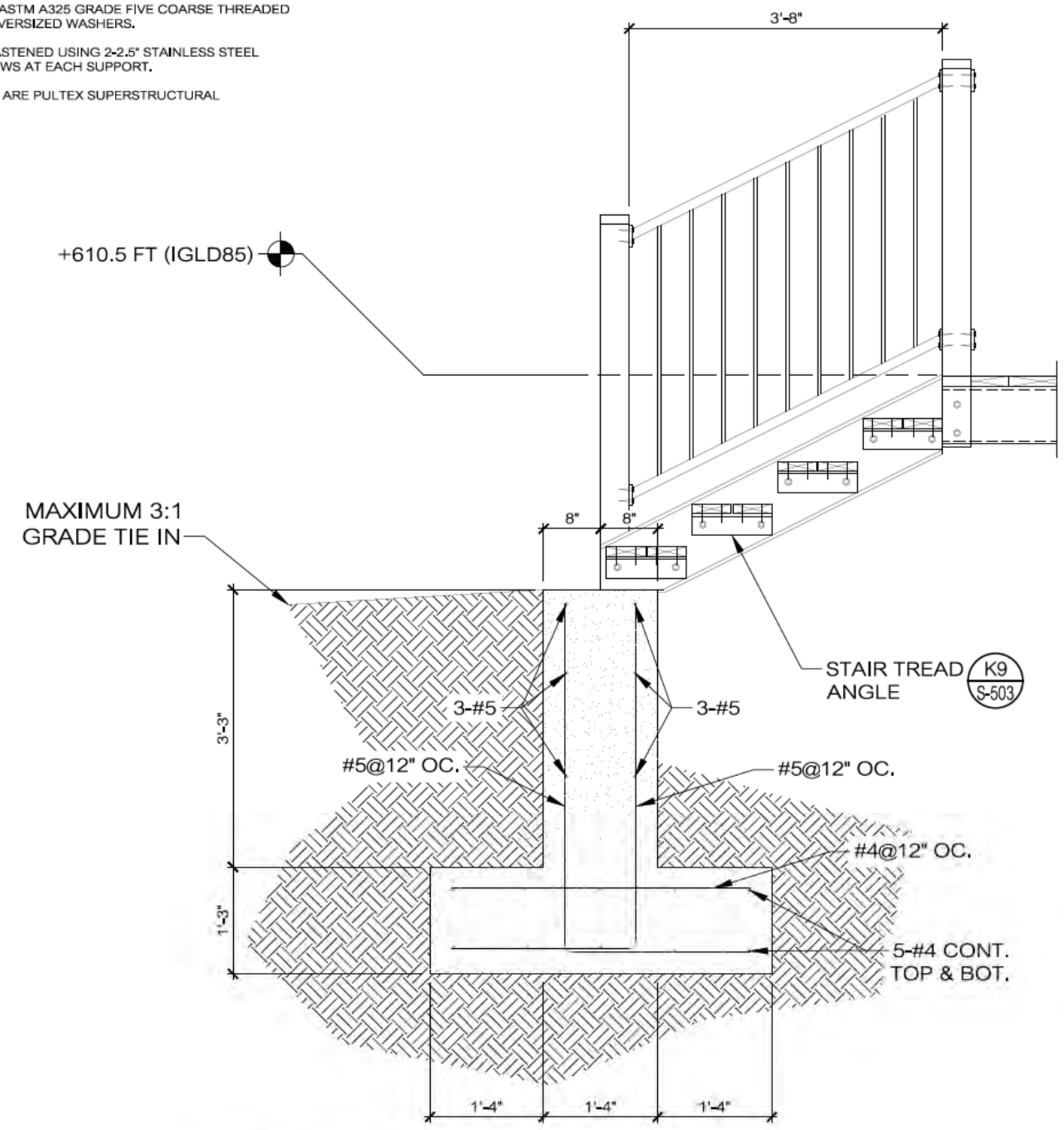
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES

City of Marquette, MI

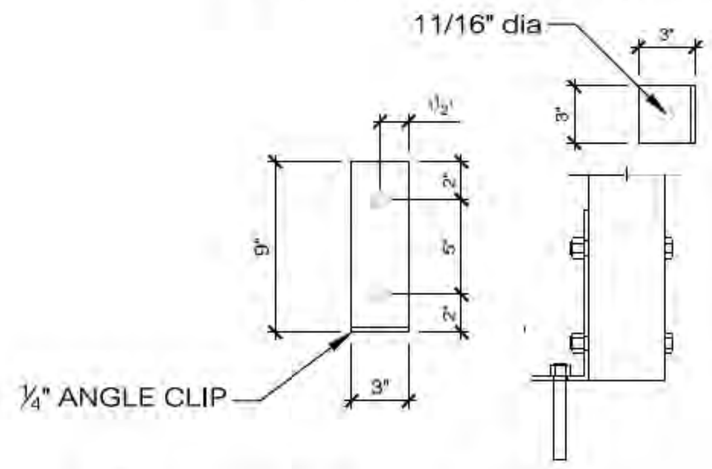


C6 S-503 STAIRS, FRONT ELEVATION
SCALE = 1:1

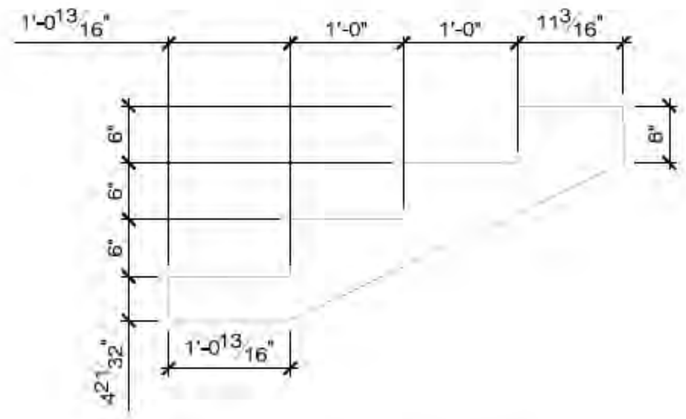
NOTES:
1. BOLTS SHALL BE GALV. ASTM A325 GRADE FIVE COARSE THREADED BOLTS WITH GRADE 8 OVERSIZED WASHERS.
2. DECK BOARDS TO BE FASTENED USING 2-2.5" STAINLESS STEEL COMPOSITE DECK SCREWS AT EACH SUPPORT.
3. STRUCTURAL MEMBERS ARE PULTEX SUPERSTRUCTURAL COMPOSITE PROFILES.



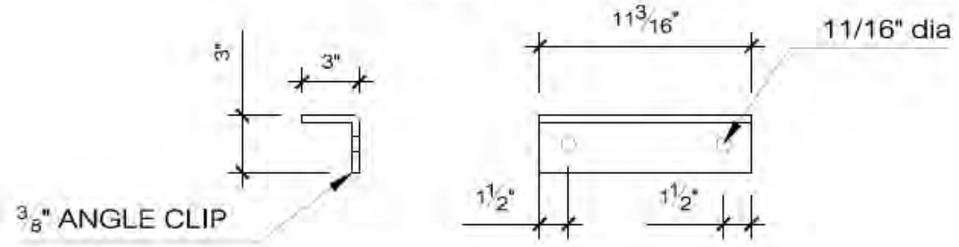
I2 S-503 STAIRS, SIDE ELEVATION
SCALE = 1:1



B9 S-503 HANDRAIL POST ANGLE PLATE
SCALE = 1:1/2



K9 S-503 CENTER STAIR JOIST
SCALE = 1:1



K9 S-503 STAIR TREAD ANGLE
SCALE = 1:1/2

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY			(B) DESIGN		(C) PERMIT		(D) TENDER		(E) CONSTRUCTION		(F) RECORD				
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
0	1	BID DOCUMENTS	SM	AM	MRE	--	2022-02-21								

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

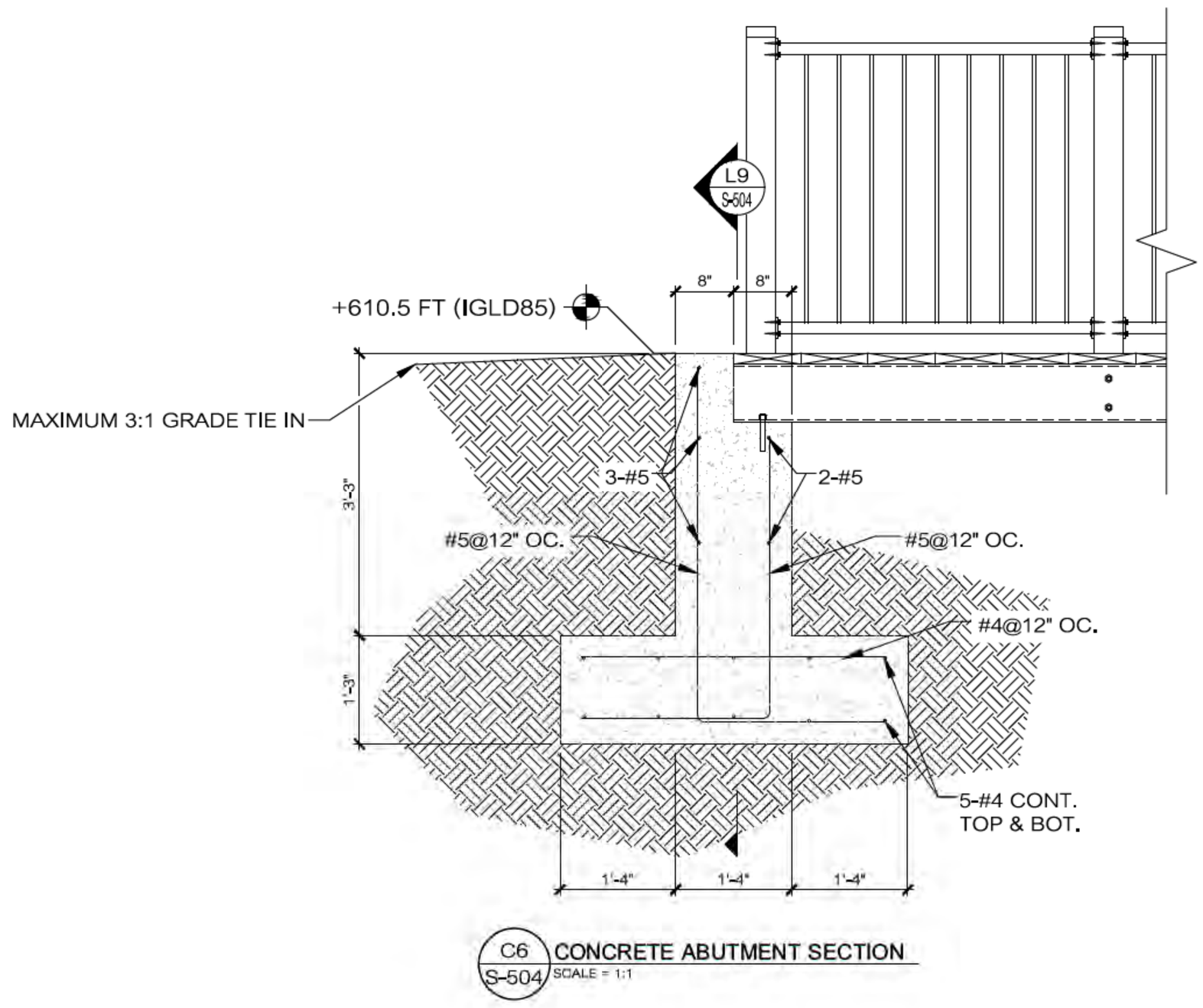
PREPARED BY: Baird.
IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION
COMPOSITE STAIRS DETAILS

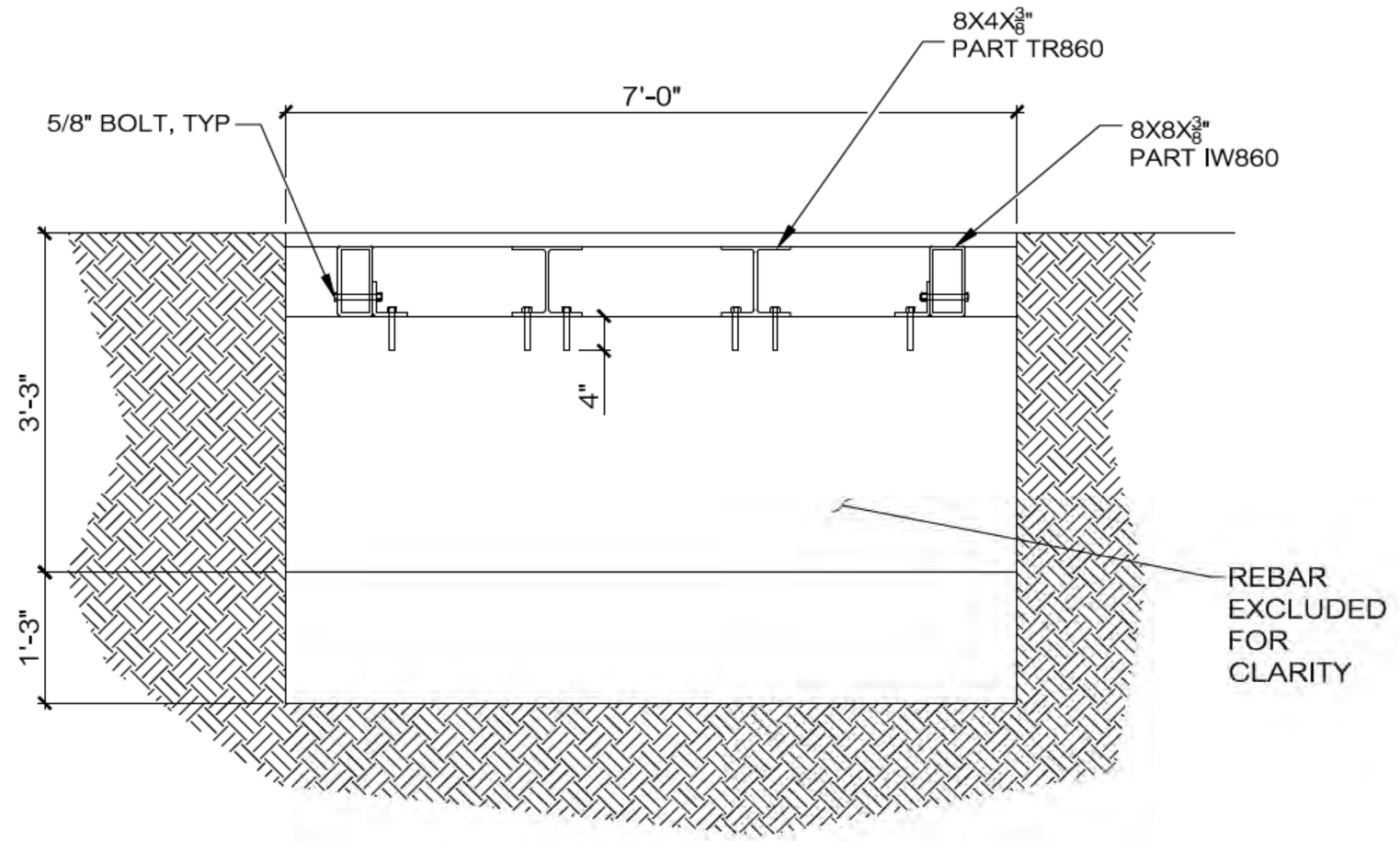
ISSUE NUMBER:
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: S-503

P:\13290_CITY MARQUETTE\2 DRAWINGS\PRESENTATIONS\RESTORATIONS\CAD\INCOMING\20220203_INAE DESIGN CAD (FROM OTHERS)\FOTH BOARDWALK PLATFORM DESIGN.DWG

PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES



C6 / S-504 **CONCRETE ABUTMENT SECTION**
SCALE = 1:1



L9 / S-504 **FRAMING TO CONCRETE CONNECTION**
SCALE = 1:1

NOTES:
1. BOLTS SHALL BE GALV. ASTM A325 GRADE FIVE COARSE THREADED BOLTS WITH GRADE 8 OVERSIZED WASHERS.
2. DECK BOARDS TO BE FASTENED USING 2-2.5" STAINLESS STEEL COMPOSITE DECK SCREWS AT EACH SUPPORT.
3. STRUCTURAL MEMBERS ARE PULTEX SUPERSTRUCTURAL COMPOSITE PROFILES.

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
(A) PRELIMINARY	0	BID DOCUMENTS	SM	AM	MRB	--	2022-02-21
(B) DESIGN							
(C) PERMIT							
(D) TENDER							
(E) CONSTRUCTION							
(F) RECORD							

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

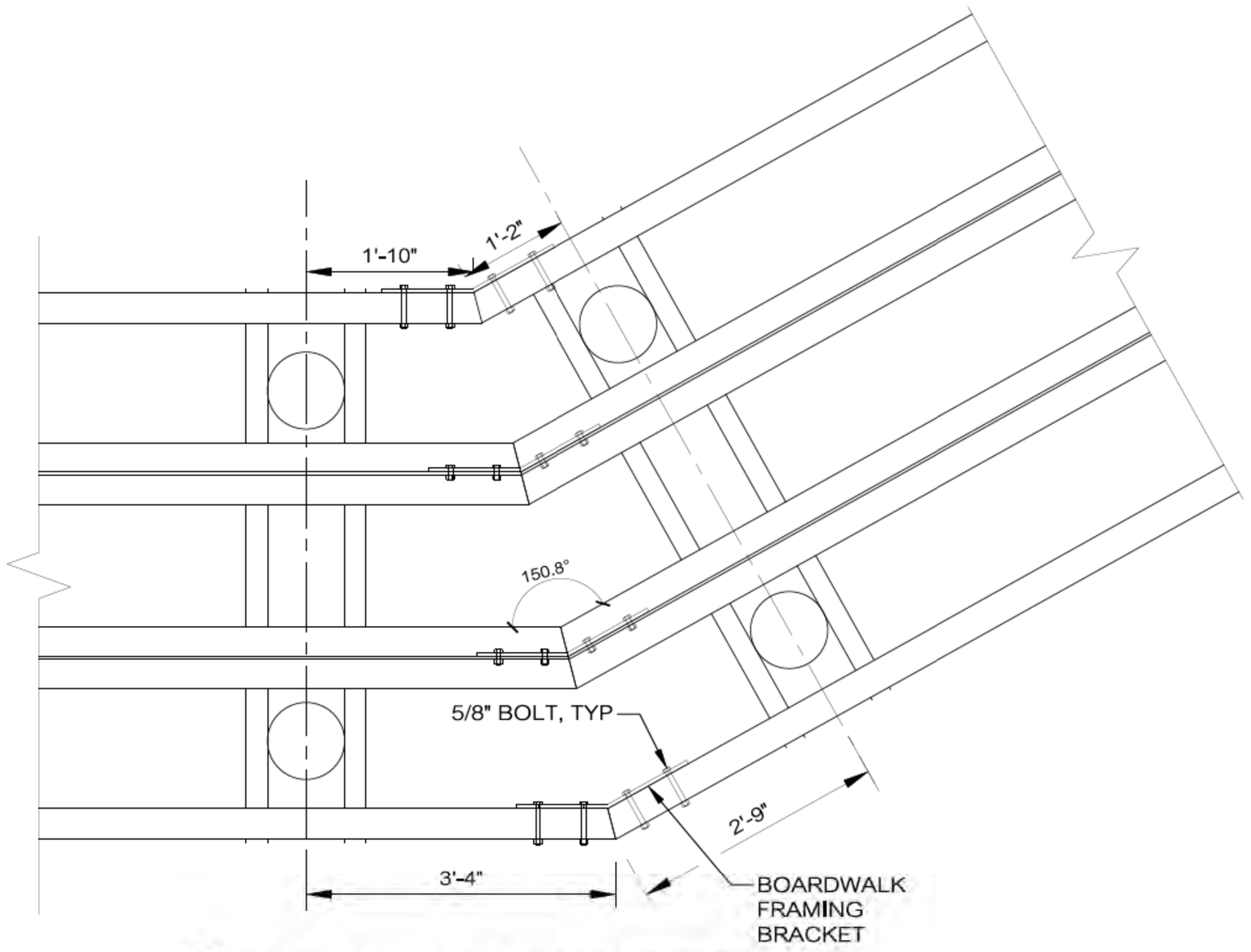
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ISSUE NUMBER: 0 | ISSUE DATE: 2022-02-21 | SHEET NUMBER: S-504

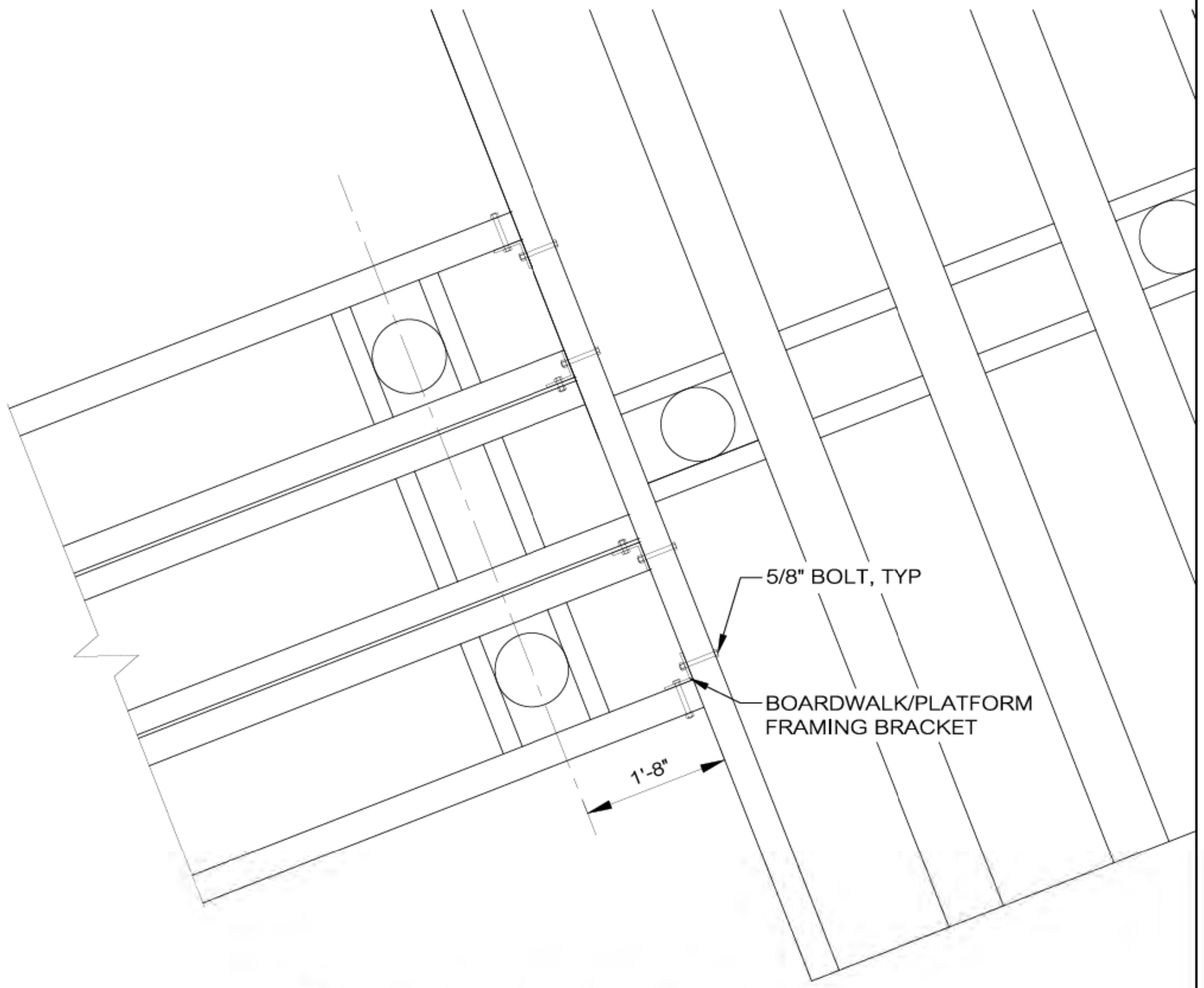
PROJECT NUMBER: 13290.101

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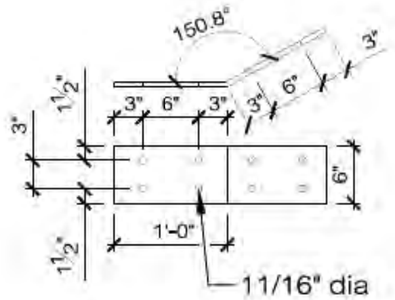
PLOT PAPER SIZE: ANSI D = 22.00 X 34.00 INCHES



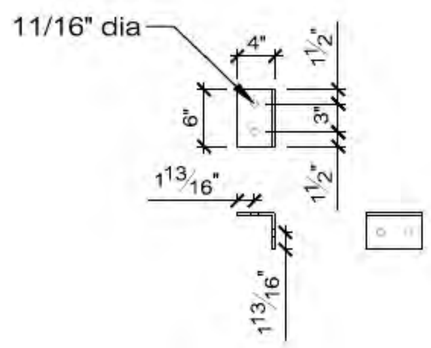
C6 S-505 **BOARDWALK FRAMING CONNECTION AT BEND**
SCALE = 1:1



L6 S-505 **BOARDWALK/PLATFORM FRAMING CONNECTION**
SCALE = 1:1



C8 S-505 **BOARDWALK FRAMING BRACKET**
SCALE = 1:1



L9 S-505 **BOARDWALK/PLATFORM FRAMING BRACKET**
SCALE = 1:1

NOTES:
1. BOLTS SHALL BE GALV. ASTM A325 GRADE FIVE COARSE THREADED BOLTS WITH GRADE 8 OVERSIZED WASHERS.
2. DECK BOARDS TO BE FASTENED USING 2-2.5" STAINLESS STEEL COMPOSITE DECK SCREWS AT EACH SUPPORT.
3. STRUCTURAL MEMBERS ARE PULTEX SUPERSTRUCTURAL COMPOSITE PROFILES.

BID DOCUMENTS

REVISIONS

(PH) PHASE OF ISSUE:		(A) PRELIMINARY			(B) DESIGN			(C) PERMIT				(D) TENDER		(E) CONSTRUCTION				(F) RECORD				
PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD	PH	REV	DESCRIPTION	DRN	DSN	APR	QCM	YYYY-MM-DD
0	1	BID DOCUMENTS	SM	AM	MRS	--	2022-02-21																

PREPARED FOR: MARQUETTE MICHIGAN

SUPERIOR WATERSHED PARTNERSHIP AND LAND CONSERVANCY

PREPARED BY: Baird.

IN ASSOCIATION WITH: res, Foth

MARQUETTE LS SHORELINE RESTORATION

FRAME CONNECTION DETAILS

ISSUE NUMBER: 1
ISSUE DATE: 2022-02-21
PROJECT NUMBER: 13290.101
SHEET NUMBER: S-505

P:\13290.101 MARQUETTE LAKE SUPERIOR SHORELINE RESTORATION\08_CADD\INCOMING\20220309_FINAL DESIGN CAD FILES FROM FOTH\FOTH BOARDWALK PLATFORM DESIGN.DWG

PLOT PAPER SIZE: ANSI D - 22.00 X 34.00 INCHES

CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
02/01/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Aon Risk Services Central, Inc.
Green Bay WI Office
1175 Lombardi Avenue
Suite 350
Green Bay WI 54304 USA

CONTACT NAME:
PHONE (A/C. No. Ext): (920) 437-7123 **FAX (A/C. No.):** (920) 431-6345
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A:	The Charter Oak Fire Insurance Company	25615
INSURER B:	St. Paul Mercury Ins Co	24791
INSURER C:	Travelers Casualty & Surety Company	19038
INSURER D:	Travelers Property Casualty Ins Co	36161
INSURER E:		
INSURER F:		

INSURED
Smith Construction, Inc.
4090 US 41 West
Marquette MI 49855-9491 USA

COVERAGES **CERTIFICATE NUMBER:** 570103814243 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

Limits shown are as requested

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC OTHER:			DTCO3X385982COF24	01/01/2024	01/01/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $300,000 $10,000 $1,000,000 $2,000,000 $2,000,000
B	**AUTOMOBILE LIABILITY** X ANY AUTO OWNED AUTOS ONLY X HIRED AUTOS ONLY SCHEDULED AUTOS NON-OWNED AUTOS ONLY			8103X3900402426G	01/01/2024	01/01/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000
D	X **UMBRELLA LIAB** X OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION			CUP3X4178432426	01/01/2024	01/01/2025	EACH OCCURRENCE AGGREGATE	$5,000,000 $5,000,000
C	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y/N ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB3X4148282426G	01/01/2024	01/01/2025	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	 $500,000 $500,000 $500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: HOLDING LICENSE #800021195 - PROJECT #MQ13-502 - LAKE SUPERIOR SHORELINE RESTORATION. CITY OF MARQUETTE IS INCLUDED AS ADDITIONAL INSURED IN ACCORDANCE WITH THE POLICY PROVISIONS OF THE GENERAL LIABILITY, AUTO AND UMBRELLA POLICIES.

CERTIFICATE HOLDER

CITY OF MARQUETTE
A MICHIGAN MUNICIPAL CORPORATION
300 W BARAGA AVENUE
MARQUETTE MI 49855 USA

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Aon Risk Services Central, Inc.

Holder Identifier :

Certificate No : 570103814243

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Owner: The City of Marquette
Job Description: Lakeshore Shoreline Restoration

Item	Description	2022 Unit Price	2024 Quantity	Units	2022 Total w/ 2024 Quantity	2024 Unit Price	2024 Total
1	Mobilization	$ 410,000.00	1	LS	$ 410,000.00	$ 502,750.00	$ 502,750.00
2	Demoliton Existing Bike Path	$ 5.00	2875	LF	$ 14,375.00	$ 6.00	$ 17,250.00
3	Demoliton Existing Roadway	$ 13.00	3280	LF	$ 42,640.00	$ 15.50	$ 50,840.00
5	Upland Excavation - Unsuitable	$ 13.00	1724	CY	$ 22,412.00	$ 15.50	$ 26,722.00
6	Upland Excavation - Unsuitable	$ 8.00	987	CY	$ 7,896.00	$ 10.00	$ 9,870.00
7	Removal of 73' of existing 42" x	$ 10,000.00	1	LS	$ 10,000.00	$ 12,000.00	$ 12,000.00
8	Removal of existing abandoned	$ 2.00	970	lf	$ 1,940.00	$ 2.50	$ 2,425.00
9	Construction Fencing	$ 4.00	10233	LF	$ 40,932.00	$ 3.35	$ 34,280.55
10	Silt Fence	$ 2.60	2405	LF	$ 6,253.00	$ 2.65	$ 6,373.25
11	Inlet Protection	$ 110.00	2	EA	$ 220.00	$ 110.00	$ 220.00
12	Erosion Control Mat	$ 3.00	50390	SY	$ 151,170.00	$ 2.96	$ 149,154.40
13	Gravel Access Approach	$ 1,000.00	4	EA	$ 4,000.00	$ 1,200.00	$ 4,800.00
14	Dust Control	$ 1,000.00	1	LS	$ 1,000.00	$ 1,200.00	$ 1,200.00
15	Upland Excavation - Suitable M	$ 10.00	8883	CY	$ 88,830.00	$ 12.00	$ 106,596.00
16	Clean Fill - On Site Soil	$ 8.00	8883	CY	$ 71,064.00	$ 7.00	$ 62,181.00
17	Imported Fill - In excess of ava	$ 12.00	4641	CY	$ 55,692.00	$ 15.00	$ 69,615.00
18	Fine Grading	$ 3,200.00	10.44	ACRE	$ 33,408.00	$ 4,100.00	$ 42,804.00
19	Upland Sand for Dune (6" Dept	$ 25.00	1252	CY	$ 31,300.00	$ 40.00	$ 50,080.00
20	Upland Sand for Side Slopes (3	$ 25.00	2393	CY	$ 59,825.00	$ 40.00	$ 95,720.00
21	Topsoil for Side Slopes (3" Dep	$ 42.00	2393	CY	$ 100,506.00	$ 48.00	$ 114,864.00
22	Topsoil for Fill Area Restoratior	$ 42.00	762	CY	$ 32,004.00	$ 48.00	$ 36,576.00
23	Topsoil for Swales (6" Depth)	$ 42.00	1788	CY	$ 75,096.00	$ 48.00	$ 85,824.00
24	Soil Mix for Backwater Wetland	$ 45.00	207	CY	$ 9,315.00	$ 55.00	$ 11,385.00
25	Shade Trees - 3" Cal.	$ 800.00	66	EA	$ 52,800.00	$ 715.00	$ 47,190.00
26	Evergreen Trees - 6' Ht.	$ 650.00	27	EA	$ 17,550.00	$ 630.00	$ 17,010.00
27	Tree Guard	$ 13.75	66	EA	$ 907.50	$ 26.50	$ 1,749.00
28	Tree Staking	$ 49.00	93	EA	$ 4,557.00	$ 65.00	$ 6,045.00
29	Shrubs - 5 Gal	$ 67.00	210	EA	$ 14,070.00	$ 64.00	$ 13,440.00
30	Shrubs - 3 Gal	$ 56.00	374	EA	$ 20,944.00	$ 41.50	$ 15,521.00
31	Shrubs - 1 Gal	$ 35.00	79	EA	$ 2,765.00	$ 26.50	$ 2,093.50
32	Perennials - Plugs	$ 3.00	7084	EA	$ 21,252.00	$ 5.15	$ 36,482.60
33	Emergent Plants - Plugs (4543	$ 2.70	1716	EA	$ 4,633.20	$ 6.80	$ 11,668.80
34	Dune Grass - Stolons (93446 s	$ 1.40	26055	EA	$ 36,477.00	$ 1.65	$ 42,990.75
35	Dune Seed Mix and Great Lake	$ 2,222.00	4.81	ACRE	$ 10,687.82	$ 4,482.58	$ 21,561.21
36	Great Lakes Barrens Seed Mix	$ 2,200.00	4.92	ACRE	$ 10,824.00	$ 3,951.31	$ 19,440.45
37	Great Lakes Barrens Seed Mix	$ 2,500.00	1.55	ACRE	$ 3,875.00	$ 6,193.11	$ 9,599.32
38	Great Lakes Marsh Seed Mix	$ 2,700.00	0.79	ACRE	$ 2,133.00	$ 6,143.96	$ 4,853.73
39	Vegetation Management - All A	$ 7,800.00	12.37	ACRE	$ 96,486.00	$ 7,385.00	$ 91,352.45
40	Ramps and Deck Structures	$ 367.00	990	SF	$ 363,330.00	$ 550.00	$ 544,500.00
41	Stone Aggregate (Supply, Tran	$ 50.00	205	CY	$ 10,250.00	$ 62.00	$ 12,710.00
42	LVSP Pavement	$ 325.00	90	Ton	$ 29,250.00	$ 400.00	$ 36,000.00
43	Roll Out Beach Walk	$ 190.00	55	LF	$ 10,450.00	$ 180.00	$ 9,900.00
44	Signage	$ 1,000.00	1	LS	$ 1,000.00	$ 1,500.00	$ 1,500.00
45	Installation of Monitoring Bench	$ 250.00	10	EA	$ 2,500.00	$ 500.00	$ 5,000.00
47	Living Revetment Shoreline Ex	$ 12.00	9673	CY	$ 116,076.00	$ 15.00	$ 145,095.00

48	Living Revetment - Armor Stor	$ 10.00	700	Ton	$ 7,000.00	$ 10.00	$ 7,000.00
49	Living Revetment - R2 Stone (4	$ 19.00	89218	Ton	$ 1,695,142.00	$ 26.75	$ 2,386,581.50
50	Living Revetment - R1 Stone (6	$ 34.00	10540	Ton	$ 358,360.00	$ 46.00	$ 484,840.00
51	Living Revetment - D Stone (2.	$ 36.50	223	Ton	$ 8,139.50	$ 48.00	$ 10,704.00
60	North Outfall - Shoreline Exc -	$ 15.00	124	CY	$ 1,860.00	$ 18.00	$ 2,232.00
61	North Outfall - D Stone (2.5"-12	$ 36.50	53	Ton	$ 1,934.50	$ 48.00	$ 2,544.00
62	North Outfall - A1 Stone (1-2 T	$ 10.00	105	Ton	$ 1,050.00	$ 10.00	$ 1,050.00
63	South Outfall - Shoreline Exc -	$ 15.00	518	CY	$ 7,770.00	$ 18.00	$ 9,324.00
64	South Outfall - D Stone (2.5"-12	$ 36.50	105	Ton	$ 3,832.50	$ 48.00	$ 5,040.00
65	South Outfall - R1 Stone (6"-18	$ 34.00	1241	Ton	$ 42,194.00	$ 46.00	$ 57,086.00
66	South Outfall - A1 Stone (1-2 T	$ 10.00	1766	Ton	$ 17,660.00	$ 10.00	$ 17,660.00
67	South Outfall - Storm Headwall	$ 15,000.00	1	LS	$ 15,000.00	$ 18,500.00	$ 18,500.00
68	Foredune Reinforcement - Bea	$ 35.00	2505	CY	$ 87,675.00	$ 40.00	$ 100,200.00
69	Armor Stone Shoreline Stabiliz	$ 34.00	408	Ton	$ 13,872.00	$ 46.00	$ 18,768.00
70	Armor Stone Shoreline Stabiliz	$ 25.00	432	Ton	$ 10,800.00	$ 10.00	$ 4,320.00
71	Existing Armor Stone Re-Use	$ 10.00	750	Ton	$ 7,500.00	$ 40.00	$ 30,000.00
73	South Outfall - Geotextile	$ 4.00	456	SY	$ 1,824.00	$ 5.75	$ 2,622.00
74	Armor Stone Shoreline Stabiliz	$ 4.00	389	SY	$ 1,556.00	$ 5.75	$ 2,236.75
75	Turbidity Curtain, Furnish	$ 0.50	3500	LF	$ 1,750.00	$ 15.00	$ 52,500.00
76	Turbidity Curtain, Instal & Main	$ 0.50	3500	LF	$ 1,750.00	$ 40.00	$ 140,000.00
77	Sand (City): Class II	$ (9.00)	2000	CY	$ (18,000.00)	$ (8.00)	$ (16,000.00)
78	Sand (City): Beach Sand - 2NS	$ (9.00)	2100	CY	$ (18,900.00)	$ (25.00)	$ (52,500.00)
79	Sand (City): Upland - 2MS	$ (9.00)	2000	CY	$ (18,000.00)	$ (28.00)	$ (56,000.00)
					2022 Total =	**$ 4,334,465.02**	**2024 Total =**	**$ 5,817,941.25**

Summary of Cost Changes:

Other Cost Description	2022 Bid	2024 Bid		Cost Change	%
Bonds	$ 39,150.00	$ 53,050.00	$ -	$ 13,900.00	36%
Subtotals	$ 39,150.00	$ 53,050.00	$ -	**$ 13,900.00**	36%

Labor Rates Description	2024 Bid Hours	2022 Bid Rate	Total with 2022 Rates	2024 Bid Rate	Total with 2024 Rates	Cost Change	%
Superintendent	792	$ 60.00	$ 47,520.00	$ 65.00	$ 51,480.00	$ 3,960.00	8%
Surveyor/Foreman	384	$ 45.00	$ 17,280.00	$ 55.00	$ 21,120.00	$ 3,840.00	22%
Pit Loader Operator	262	$ 35.00	$ 9,170.00	$ 52.00	$ 13,624.00	$ 4,454.00	49%
Truck Driver	5443	$ 32.00	$ 174,171.88	$ 39.00	$ 212,271.97	$ 38,100.10	22%
Operator - ONSITE	4889	$ 70.00	$ 342,197.24	$ 77.00	$ 376,416.97	$ 34,219.72	10%
Laborer - ONSITE	2091	$ 43.00	$ 89,893.06	$ 46.00	$ 96,164.67	$ 6,271.61	7%
Subtotals			$ 680,232.18		$ 771,077.61	**$ 90,845.43**	13%

Equipment Rates Description	2024 Bid Hours	2022 Bid Rate	Total with 2022 Rates	2024 Bid Rate	Total with 2024 Rates	Cost Change	%
Pickup	2105	$ 15.00	$ 31,581.45	$ 20.00	$ 42,108.60	$ 10,527.15	33%
Lead Dump Truck	5386	$ 85.00	$ 457,771.03	$ 90.00	$ 484,698.74	$ 26,927.71	6%
Quad Dump Truck	13	$ 70.00	$ 933.07	$ 75.00	$ 999.72	$ 66.65	7%
Tractor w/Lowboy Trailer	44	$ 105.00	$ 4,620.00	$ 125.00	$ 5,500.00	$ 880.00	19%
Survey Equipment	384	$ 15.00	$ 5,760.00	$ 20.00	$ 7,680.00	$ 1,920.00	33%
Loader, 4 Cyd	1894	$ 75.00	$ 142,050.00	$ 90.00	$ 170,460.00	$ 28,410.00	20%
Pit Loader, 6 Cyd	262	$ 85.00	$ 22,270.00	$ 105.00	$ 27,510.00	$ 5,240.00	24%
Excavator, 90,000 Lb	1964	$ 95.00	$ 186,613.30	$ 125.00	$ 245,543.81	$ 58,930.51	32%
Dozer, w/GPS	511	$ 85.00	$ 43,406.66	$ 125.00	$ 63,833.32	$ 20,426.66	47%
Off Road Truck, 40 Ton	160	$ 135.00	$ 21,534.53	$ 165.00	$ 26,319.98	$ 4,785.45	22%
Roller	10	$ 65.00	$ 650.00	$ 70.00	$ 700.00	$ 50.00	8%
Grader, 12' Moldboard	20	$ 65.00	$ 1,300.00	$ 95.00	$ 1,900.00	$ 600.00	46%
Skidsteer	20	$ 65.00	$ 1,300.00	$ 65.00	$ 1,300.00	$ -	0%
Subtotals			$ 919,790.03		$1,078,554.17	**$ 158,764.13**	17%

Material Rates Description	Quantity (Ton)	2022 Bid Rate	Total with 2022 Rates	2024 Bid Rate	Total with 2024 Rates	Cost Change	%
Class II Sand	6962	$ 2.00	$ 13,924.00	$ 4.00	$ 27,848.00	$ 13,924.00	100%
Beach Sand - 2NS	3758	$ 10.00	$ 37,580.00	$ 12.00	$ 45,096.00	$ 7,516.00	20%
2MS Sand	5468	$ 15.00	$ 82,020.00	$ 18.00	$ 98,424.00	$ 16,404.00	20%
6AAA	510	$ 16.00	$ 8,160.00	$ 18.00	$ 9,180.00	$ 1,020.00	13%
Screened Topsoil	6125	$ 12.00	$ 73,500.00	$ 18.00	$ 110,250.00	$ 36,750.00	50%
A-1 Stone, 1-2 Ton Bould	3003	$ -	$ -	$ -	$ -	$ -	
R1 Riprap, 6" to 18"	12189	$ 11.45	$ 139,564.05	$ 18.12	$ 220,864.68	$ 81,300.63	58%
R2 Riprap, 4" to 8"	89218	$ 11.45	$ 1,021,546.10	$ 18.12	$ 1,616,630.16	$ 595,084.06	58%
D Stone, 2.5" to 12"	381	$ 11.45	$ 4,362.45	$ 18.12	$ 6,903.72	$ 2,541.27	58%
Subtotals			$ 1,380,656.60		$2,135,196.56	$ 754,539.96	55%
6% Sales Tax			$ 82,839.40		$ 128,111.79	$ 45,272.40	55%
Subtotals			$ 1,463,496.00		$2,263,308.35	**$ 799,812.36**	55%

Subcontracted Work Description	Quantity	2022 Bid Rate	Total with 2022 Rates	2024 Bid Rate	Total with 2024 Rates	Cost Change	%
GEI Consultants							
Rock QC	1	$ 69,016.00	$ 69,016.00	$ 73,966.50	$ 73,966.50	$ 4,950.50	7%
Plutchak Fabricating			$ -		$ -	$ -	
Ramps and Deck Structur	990	$ 367.00	$ 363,330.00	$ 542.00	$ 536,760.00	$ 173,430.00	48%

Payne and Dolan			$ -		$ -	$ -	
Mobilization	1	$ 8,320.00	$ 8,320.00	$ 10,400.00	$ 10,400.00	$ 2,080.00	25%
HMA, LVSP	90	$ 225.00	$ 20,250.00	$ 281.25	$ 25,312.50	$ 5,062.50	25%
G and J Site Solutions			$ -		$ -	$ -	
Mobilization	1	$ 36,500.00	$ 36,500.00	$ 45,650.00	$ 45,650.00	$ 9,150.00	25%
Construction Fence	10233	$ 3.72	$ 38,066.76	$ 3.35	$ 34,280.55	$ (3,786.21)	-10%
Silt Fence	2405	$ 2.40	$ 5,772.00	$ 2.65	$ 6,373.25	$ 601.25	10%
Inlet Protection	2	$ 100.00	$ 200.00	$ 110.00	$ 220.00	$ 20.00	10%
Erosion Blanket	50390	$ 2.70	$ 136,053.00	$ 2.96	$ 149,154.40	$ 13,101.40	10%
Fine Grading	10.44	$ 2,855.00	$ 29,806.20	$ 1,465.00	$ 15,294.60	$ (14,511.60)	-49%
Shade Trees	66	$ 735.00	$ 48,510.00	$ 715.00	$ 47,190.00	$ (1,320.00)	-3%
Evergreen Trees	27	$ 590.00	$ 15,930.00	$ 630.00	$ 17,010.00	$ 1,080.00	7%
Tree Guard	66	$ 12.50	$ 825.00	$ 26.50	$ 1,749.00	$ 924.00	112%
Tree Staking	93	$ 45.00	$ 4,185.00	$ 65.00	$ 6,045.00	$ 1,860.00	44%
Shrub, 5 gal	210	$ 61.25	$ 12,862.50	$ 64.00	$ 13,440.00	$ 577.50	4%
Shrub, 3 gal	374	$ 51.25	$ 19,167.50	$ 41.50	$ 15,521.00	$ (3,646.50)	-19%
Shrub, 1 gal	79	$ 32.35	$ 2,555.65	$ 26.50	$ 2,093.50	$ (462.15)	-18%
Perennials, plug	7084	$ 2.75	$ 19,481.00	$ 5.15	$ 36,482.60	$ 17,001.60	87%
Emergent Plant	1716	$ 2.45	$ 4,204.20	$ 6.80	$ 11,668.80	$ 7,464.60	178%
Dune Grass Stolons	26055	$ 1.30	$ 33,871.50	$ 1.65	$ 42,990.75	$ 9,119.25	27%
Dune Seed Mix	4.81	$ 2,025.00	$ 9,740.25	$ 4,482.58	$ 21,561.21	$ 11,820.96	121%
GLB Seed Mix B	4.92	$ 1,985.00	$ 9,766.20	$ 3,951.31	$ 19,440.45	$ 9,674.25	99%
GLB Seed Mix C	1.55	$ 2,245.00	$ 3,479.75	$ 6,193.11	$ 9,599.32	$ 6,119.57	176%
GLM Seed Mix	0.79	$ 2,450.00	$ 1,935.50	$ 6,143.96	$ 4,853.73	$ 2,918.23	151%
Vegetation Management	12.37	$ 7,150.00	$ 88,445.50	$ 7,385.00	$ 91,352.45	$ 2,906.95	3%
Roll Out Beach Walk	55	$ 175.50	$ 9,652.50	$ 180.00	$ 9,900.00	$ 247.50	3%
Subtotals			$ 922,910.01		$1,174,343.10	**$ 256,383.59**	28%

Smith Increase =	**$ 1,063,321.92**
10% Overhead =	**$ 106,332.19**
5% Profit =	**$ 58,482.71**
Smith Total Increase =	**$ 1,228,136.82**
Subcontract Increase =	**$ 256,383.59**
10% Markup =	**$ 25,638.36**
Subcontract Total Increase =	**$ 282,021.95**

Gmail

John Daavettila <johnd@smith49855.net>

Marq. Pedestrian Boardwalk

1 message

Tim Plutchak <tplutchak@plutchakfab.com> Mon, Jan 29, 2024 at 5:22 PM
To: "johnd@smith49855.net" <johnd@smith49855.net>
Cc: Chris Plutchak <cplutchak@plutchakfab.com>

Hello John,

Quoting the Attached Fiberglass materials for the Pile & Boardwalk. Also, includes the Steel Handrailing and labor to install the Piling and Assemble the Boardwalk framing and walk planks.

Includes: Mobilization of equip. to jobsite.

Fiberglass Pile per specification.

Fiberglass Structural members.

Composite handrail posts.

FRP deck planking.

Steel handrail panels painted per spec..

Fasteners for all connections.

Equip. and labor as needed.

Total cost for above work: $ 536,760.00

Terms: 25% ARO, Progress Payments.

Total does not include and Federal, State or local taxes.

No permit costs, if any are included.

Best Regards,

Chris Plutchak

Plutchak Fab., LLC

N1715 US 41

Menominee, Mi. 49858

O: 906-864-4650

C: 906-290-2750

2022 to 2024 Crushing Cost Comparison

Rip Rap Cost 2022:	Unit Price	Unit	Quantity	Total	
Great Lakes Minerals:					
- R1, R2 and D-Stone	$ 10.45	ton	93810	$ 980,314.50	
- Drill and Blast	$ -	ton	166773	$ -	
- Mobilization	$ -	LS	1	$ -	
Smith Loading Trucks	$ 1.00	ton	93810	$ 93,810.00	
				$ 1,074,124.50	
				$ 11.45	per ton total

Rip Rap Cost 2024:	Unit Price	Unit	Quantity	Total	
Great Lakes Minerals:					
- R1, R2 and D-Stone	$ 10.95	ton	101788	$ 1,114,578.60	
- Mobilization	$ 15,000.00	LS	1	$ 15,000.00	
SX Blasting					
- Drill and Blast	$ 2.32	ton	101788	$ 236,148.16	
Smith Sorting Blast Pile:				$ -	
- Excavator	$ 125.00	hour	905	$ 113,097.78	
- Off Road Truck	$ 165.00	hour	905	$ 149,289.07	
- Operator	$ 52.00	hour	1810	$ 94,097.35	
Smith Loading Trucks	$ 1.20	ton	101788	$ 122,145.60	
				$ 1,844,356.56	
				$ 18.12	per ton total
					58% crushing cost increase

Great Lakes MINERAL

46702 M-26 PO Box 393
Houghton MI 49931
P (906) 482.6808 F (906) 483.3511

QUOTE

Smith Construction
4090 US 41 West
Marquette, MI 49855

January 16, 2024

It is our pleasure to offer you the following rates to produce materials for the 2024 season.

Project Description: Crushing Service in US 41 Quarry location

Material		Processing Price
Plain Rip Rap	$	10.95 / ton
21AA	$	6.00 / ton
3" Minus	$	5.75 / ton
Mobilization	$	15,000

- *Purchase Order required in advance to insure schedule availability*
- *Fuel baseline of $5.00/gallon for clear diesel per DOE Midwest average*
- *Prices quoted are valid through 11.01.2024*
- *Price does not include drilling and blasting costs*
- *Mobilization Fee and any open balances must be paid prior to mobilization*

Thank you for the opportunity to quote this project. We look forward to working with you. Please feel free to call with any questions or concerns, or if we can be of assistance in any other way.

Respectfully Submitted by:

GREAT LAKES MINERAL WORKS, LLC
VALLEY VIEW QUARRY

AGGREGATE PRODUCTS
MDOT PREQUALIFIED
MANUFACTURER | SUPPLIER

Gary A. Moyle

SX Blasting, Inc.

N59 W14601 Bobolink Ave.
Menomonee Falls, WI 53051-5990
Cell 414-235-0898 / Office 262-252-3200

Quotation

Date: 01/09/24
Quotation #: 1
Customer ID:

DRILLING & BLASTING QUOTE:

PROJECT: **Kalkaska Drive Quarry Site. Negaunee, MI.**
2024 Drilling & Blasting Services

General Contractor to supply: Access, Traffic Control and a Safe and Secure Work Area.
SX Blasting will include Fuel and Stemming for this quote.

Subcontractor Scope of Work	AMOUNT
7x7 Pattern 3.5" Hole - Drill and Blast estimated 160,000 tons at $2.32 per ton. For Rip-Rap	$371,200.00
Permits, Inspections and Setup	$2,170.00
Mobilization	$5,940.00
SX Blasting will be supplying the Drilling and Blasting Services for this project.	
TOTAL	**$ 379,310.00**

By His or Her signature below, CONTRACTOR hereby accepts and agrees to SUBCONTRACTOR'S quotation as written. Price is valid 90 days from the date of this estimate.

CONTRACTOR: _____ DATE: _____
signature

_____
written/typed

SUBCONTRACTOR: _____ DATE: _____
signature

_____
written/typed

>We trust that you will find our quote satisfactory and look forward to working with you. If you have any concerning this quotation, contact Dick Boening at 414-235-0898 or email: dboening@sxblasting.com

THANK YOU FOR YOUR BUSINESS!!

Great Lakes MINERAL

46702 M-26 PO Box 393
Houghton MI 49931
P (906) 482.6808 F (906) 483.3511

QUOTE

Smith Construction
4090 US 41 West
Marquette, MI 49855

May 03, 2022

It is our pleasure to offer you the following rates for the production of materials for the 2022 season.

Project Description: Crushing Service in US 41 Quarry location

Material		Processing Price
Plain Rip Rap	$	10.45 / ton
21AA	$	6.40 / ton
3" Minus	$	6.40 / ton
Mobilization	$	12,000*

- *Purchase Order required in advance to insure schedule availability*
- *Fuel baseline of $4.00/gallon for off road diesel per DOE Midwest average*
- *Prices quoted are valid through 11.01.2022*
- *Prices include drilling and blasting costs*
- ** one time charge, waived at 60,000 ton processed*

Thank you for the opportunity to quote this project. We look forward to working with you. Please feel free to call with any questions or concerns, or if we can be of assistance in any other way.

Respectfully Submitted by:

GREAT LAKES MINERAL WORKS, LLC
VALLEY VIEW QUARRY

AGGREGATE PRODUCTS
MDOT PREQUALIFIED
MANUFACTURER | SUPPLIER

Gary A. Moyle

2022 Davis Bacon Wage Worksheet

Owner: City of Marquette
Project: Lakeshore Boulevard Shoreline Restoration
Location: Marquette

Revised 1/21/2022

LABOR CATEGORIES										
	Decision #	MI20220048								
	Class ID	ENGI0326-006				LABO0334-002				
	Group	Group 1				Laborer 4				
		Equipment Operator		Truck Driver		General Laborer		Restoration Laborer		Flagger
	Base Wage	$ 33.11		$ 24.00		$ 21.51				
	Fringe	$ 24.60				$ 12.85				
BASE WAGE RATE		Open Cut				Open Cut		Open Cut		
Payroll Taxes										
FICA	7.65%	$ 2.53		$ 1.84		$ 1.65		$ -		$ -
MESC		$ -		$ -		$ -		$ -		$ -
FUTA	6.00%	$ 1.99		$ 1.44		$ 1.29		$ -		$ -
SBT	6.00%	$ 1.99		$ 1.44		$ 1.29		$ -		$ -
Sub Total Payroll Taxes		$ 6.51		$ 4.72		$ 4.23		$ -		$ -
Work. Comp. Rates										
0042 Landscape Gardening	2.31%							$ -		$ -
1624 Quarry NOC	1.50%									
5221 Concrete Construction	2.99%									
5507 Subsurface	2.77%									
5506 Paving or Re Paving	2.34%									
5606 Contractor Executive	0.72%									
6217 Excavation	2.20%	$ 1.30								
6306 Sewer Construction	3.01%					$ 1.15				
6319 Water Mains	1.43%									
7380 Drivers	2.87%			$ -						
8227 Contractors Permanent Yard	1.90%									
8720 Salesperson	0.66%									
8810 Clerical Office Employees	0.07%									
9402 Street Cleaning & Drivers (Snow)	1.820%									
2022 Work Comp Exp. Factor	*1.78*									
General Liability	1.69%	$ 0.56		$ 0.41		$ 0.36		$ -		$ -
Sub Total Insurance		$ 1.86		$ 0.41		$ 1.52		$ -		$ -
Total Base Wage Labor Rates		**$ 66.07**		**$ 29.12**		**$ 40.10**		**$ -**		**$ -**
TIME & ONE HALF WAGE RATE										
Base Wage		$ 49.67		$ 36.00		$ 32.27		$ -		$ -
Payroll Taxes										
FICA	**7.65%**	$ 3.80		$ 2.75		$ 2.47		$ -		$ -
MESC	**12.7%**	$ 4.20		$ 3.05		$ 2.73		$ -		$ -
FUTA	**0.08%**	$ 0.04		$ 0.03		$ 0.03		$ -		$ -
SBT	**1.75%**	$ 0.87		$ 0.63		$ 0.56		$ -		$ -
Work Comp Insurance		$ 1.86		$ 0.41		$ 1.52		$ -		$ -
Total Time & One Half Labor Rates		**$ 85.03**		**$ 42.87**		**$ 52.42**		**$ -**		**$ -**

AVERAGE 10 HOURS PER DAY RATE

Equipment Operator	Truck Driver	Construction Laborer	Restoration Laborer	Flagger
$ 528.58	$ 232.97	$ 320.82	$ -	$ -
$ 170.07	$ 85.73	$ 104.84	$ -	$ -
$ 698.65	$ 318.71	$ 425.66	$ -	$ -
$ 69.86	**$ 31.87**	**$ 42.57**	**$ -**	**$ -**

2022 Davis Bacon Rates

"General Decision Number: MI20220048 02/25/2022

Superseded General Decision Number: MI20210048

State: Michigan

Construction Type: Heavy

Counties: Iron and Marquette Counties in Michigan.

Heavy, Includes Water, Sewer Lines and Excavation (Excludes Hazardous Waste Removal; Coal, Oil, Gas, Duct and other similar Pipeline Construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1	$ 35.92	24.85
GROUP 2	$ 31.03	24.85
GROUP 3	$ 30.53	24.85
GROUP 4	$ 30.25	24.85

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backhoe/ Excavator, Boring Machine, Bulldozer, Crane, Scraper, Loader, Trencher (over 8 ft. digging capacity)

GROUP 2: Trencher (8-ft digging capacity and smaller)

GROUP 3: Boom Truck (non-swinging, non- powered type boom)

GROUP 4: Broom/ Sweeper, Fork Truck, Tractor

ENGI0326-006 05/01/2021

EXCLUDES UNDERGROUND CONSTRUCTION

	Rates	Fringes
OPERATOR: Power Equipment		
Crane, main boom & jib 120' or longer	$ 36.41	24.60
Crane, main boom & jib 140' or longer	$ 37.23	24.60
Crane, main boom & jib 220' or longer	$ 37.52	24.60
GROUP 1 - Backhoe/Excavator; Bulldozer; Crane; Compactor; Scraper; Loader	$ 33.11	24.60
GROUP 2 - Boom truck (non-swing)	$ 29.86	24.60
GROUP 3 - Oiler	$ 28.46	12.10

FOOTNOTES: Premium rate: main boom and jib 300 feet or longer is $1.50 per hour above the 220 ft. boom and jib rate. Main boom and jib 400 feet or longer is $3.00 per hour above the 220 ft. boom and jib rate.

IRON0008-009 06/01/2021

	Rates	Fringes

IRONWORKER, REINFORCING AND
STRUCTURAL

Contracts $10,000,000 or greater	$ 36.45	27.65
Contracts less than $10,000,000	$ 36.45	27.65

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

LAB00334-002 09/01/2018

SCOPE OF WORK:
OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining)

	Rates	Fringes
LABORER		
(1) Common or General	$ 21.19	12.85
(2) Mason Tender-Cement/Concrete	$ 21.33	12.85
(4) Grade Checker	$ 21.51	12.85
(5) Pipelayer	$ 21.56	12.85

LAB01329-002 05/01/2021

EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
LABORER		
Common or General; Mason Tender - Cement/Concrete	$ 30.09	12.95
Pipelayer	$ 30.09	12.95

PLAS0016-035 04/01/2014

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 20.17	10.13

PLUM0111-009 05/27/2019

	Rates	Fringes
PLUMBER/PIPEFITTER	$ 34.48	25.18

TEAM0007-010 06/01/2020

2024 Davis Bacon Wage Worksheet

Revised *1/9/2024*

Owner: City of Marquette
Project: Lakeshore Boulevard Shoreline Restoration
Location: Marquette

LABOR CATEGORIES			Decision #	MI20220048								
			Class ID	ENGI0326-006			LABO0334-002					
			Group	Group 1			Laborer 4					
				Equipment Operator		Truck Driver		General Laborer		Restoration Laborer		Flag Person
			Base Wage	$ 35.71		$ 26.00		$ 21.51				
			Fringe	$ 25.00				$ 12.85				
BASE WAGE RATE				Open Cut				Open Cut		Open Cut		
Payroll Taxes												
FICA			7.65%	$ 2.73		$ 1.99		$ 1.65		$ -		$ -
MESC			3.0%	$ 1.07		$ 0.78		$ 0.65		$ -		$ -
FUTA			6.00%	$ 2.14		$ 1.56		$ 1.29		$ -		$ -
Sub Total Payroll Taxes				$ 5.95		$ 4.33		$ 3.58		$ -		$ -
Smith Health Insurance			$ 410.00	$ 2.44		$ 2.44		$ 2.44		$ 2.44		$ 2.44
Smith 401K Match			5%	$ 1.79		$ 1.30		$ 1.08		$ -		$ -
Vacation 1yr plan 1.85 hours per 40	$	1.65										
Vacation 2yr plan 2.62 hours per 40	$	2.34										
Vacation 5yr plan 3.38 hours per 40	$	3.02										
Vacation 10yr plan 4.15 hours per 40	$	3.70				$ 2.70						
Sub Total Smith Benefits				$ 4.23		$ 6.44		$ 3.52		$ 2.44		$ 2.44
Work. Comp. Rates												
0042 Landscape Gardening			3.18%									
1624 Quarry NOC			1.95%									
5221 Concrete Construction			3.03%									
5507 Subsurface			2.87%									
5506 Paving or Re Paving			2.77%									
5606 Contractor Executive			0.66%									
6217 Excavation			2.59%	$ 1.86								
6306 Sewer Construction			3.34%					$ 1.44				
6319 Water Mains			1.74%									
7380 Drivers			3.62%			$ 0.02						
8227 Contractors Permanent Yard			2.16%									
8720 Salesperson			0.73%									
8810 Clerical Office Employees			0.07%									
9402 Street Cleaning & Drivers (Snow)			1.970%									
2024 Work Comp Exp. Factor			*2.01*	$ 3.74		$ 0.03		$ 2.90		$ -		$ -
General Liability			1.80%	$ 0.64		$ 0.47		$ 0.39		$ -		$ -
Sub Total Insurance				$ 6.24		$ 0.52		$ 4.73		$ -		$ -
Total Base Wage Labor Rates				**$ 72.89**		**$ 37.29**		**$ 42.68**		**$ -**		**$ -**

TIME & ONE HALF WAGE RATE

Base Wage		$ 53.57		$ 39.00		$ 32.27		$ -		$ -
Payroll Taxes								
FICA	**7.65%**	$ 4.10		$ 2.98		$ 2.47		$ -		$ -
MESC	**3.0%**	$ 1.07		$ 0.78		$ 0.65		$ -		$ -
FUTA	**6.00%**	$ 3.21		$ 2.34		$ 1.94		$ -		$ -
Work Comp Insurance	**3.13%**	$ 6.24		$ 0.52		$ 4.73		$ -		$ -
Total Time & One Half Labor Rates		**$ 93.19**		**$ 45.62**		**$ 54.90**		**$ -**		**$ -**

AVERAGE 10 HOURS PER DAY RATE

Equipment Operator		Truck Driver		Construction Laborer		Restoration Laborer		Flagger	
$ 583.15		$ 298.29		$ 341.40		$ -		$ -	
$ 186.37		$ 91.24		$ 109.80		$ -		$ -	
$ 769.53		$ 389.53		$ 451.20		$ -		$ -	
$ 76.95		**$ 38.95**		**$ 45.12**		**$ -**		**$ -**	

2024 Davis Bacon Rates

"General Decision Number: MI20230048 09/01/2023

Superseded General Decision Number: MI20220048

State: Michigan

Construction Type: Heavy

Counties: Iron and Marquette Counties in Michigan.

Heavy, Includes Water, Sewer Lines and Excavation (Excludes Hazardous Waste Removal; Coal, Oil, Gas, Duct and other similar Pipeline Construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

ELECTRICIAN

Contracts $135,000 and under	$ 31.44	18.59
Contracts over $135,000	$ 33.44	18.67

ENGI0325-021 09/01/2022

POWER EQUIPMENT OPERATORS: Underground Construction (Including Sewer)

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1	$ 37.67	24.85
GROUP 2	$ 32.78	24.85
GROUP 3	$ 32.28	24.85
GROUP 4	$ 32.00	24.85

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backhoe/ Excavator, Boring Machine, Bulldozer, Crane, Scraper, Loader, Trencher (over 8 ft. digging capacity)

GROUP 2: Trencher (8-ft digging capacity and smaller)

GROUP 3: Boom Truck (non-swinging, non- powered type boom)

GROUP 4: Broom/ Sweeper, Fork Truck, Tractor

ENGI0326-006 05/01/2023

EXCLUDES UNDERGROUND CONSTRUCTION

	Rates	Fringes
OPERATOR: Power Equipment		
Crane, main boom & jib 120' or longer	$ 39.01	25.00
Crane, main boom & jib 140' or longer	$ 39.83	25.00
Crane, main boom & jib 220' or longer	$ 39.83	25.00
GROUP 1 - Backhoe/Excavator; Bulldozer; Crane; Compactor; Scraper; Loader.	$ 35.71	25.00
GROUP 2 - Boom truck (non-		

swing).....$ 32.46 25.00
GROUP 3 - Oiler.....$ 31.06 12.50

FOOTNOTES: Premium rate: main boom and jib 300 feet or longer is $1.50 per hour above the 220 ft. boom and jib rate. Main boom and jib 400 feet or longer is $3.00 per hour above the 220 ft. boom and jib rate.

IRON0008-009 06/01/2023

	Rates	Fringes
IRONWORKER, REINFORCING AND STRUCTURAL		
Contracts $10,000,000 or greater	$ 39.17	30.42
Contracts less than $10,000,000	$ 39.17	30.43

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

LABO0334-002 09/01/2018

SCOPE OF WORK:
OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining)

	Rates	Fringes
LABORER		
(1) Common or General	$ 21.19	12.85
(2) Mason Tender-Cement/Concrete	$ 21.33	12.85
(4) Grade Checker	$ 21.51	12.85
(5) Pipelayer	$ 21.56	12.85

LABO1329-002 05/01/2023

EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
LABORER		
Common or General; Mason		

G & J SITE SOLUTIONS

51811 Industrial Drive
Calumet, MI 49913
Phone: 906-369-3455 Fax 906-483-2455

Traverse City, Michigan
Phone: 231-941-4400 Fax 231-942-4404

Wednesday, May 4, 2022

City of Marquette
Lake Superior Shoreline Restoration
Marquette County, Mi

Item #	Item Description	Quantity	Unit	Unit Price	Item Price
0001	Mobilization	1.00	LS	$36,500.00	$36,500.00
0009	Contruction Fencing Installation and Removal	10,233.00	LF	$3.72	$38,066.76
0010	Silt Fence Installation and Removal	2,192.00	LF	$2.40	$5,260.80
0011	Inlet Protection	2.00	EA	$100.00	$200.00
0012	Erosion Blanket	49,442.00	Sy	$2.70	$133,493.40
0018	Fine Grading	10.19	ACRE	$2,855.00	$29,092.45
0025	Shade Trees - 3" Cal.	66.00	EA	$735.00	$48,510.00
0026	Evergreen Trees - 6' Ht.	27.00	EA	$590.00	$15,930.00
0027	Tree Guard	66.00	EA	$12.50	$825.00
0028	Tree Staking	93.00	EA	$45.00	$4,185.00
0029	Shrubs - 5 Gal.	192.00	EA	$61.25	$11,760.00
0030	Shrubs - 3 Gal.	343.00	EA	$51.75	$17,750.25
0031	Shrubs - 1 Gal.	75.00	EA	$32.35	$2,426.25
0032	Perrennials - Plugs	6,710.00	EA	$2.75	$18,452.50
0033	Emergent Plants - Plugs (4,543 SF @ 24" O.C.)	1,248.00	EA	$2.45	$3,057.60
0034	Dune Grass - Stolons (93,446 SF @ 24" O.C.)	25,542.00	EA	$1.30	$33,204.60
0035	Dune Seed Mix and Great Lakes Barrens Seed Mix A	4.75	ACRE	$2,025.00	$9,618.75
0036	Great Lakes Barrens Seed Mix B	4.97	ACRE	$1,985.00	$9,865.45
0037	Great Lakes Barrens Seed Mix C	1.62	ACRE	$2,245.00	$3,636.90
0038	Great Lakes Marsh Seed Mix	0.63	ACRE	$2,450.00	$1,543.50
0039	Vegetation Man. - All Areas (including preserved areas) 3 years	12.13	ACRE	$7,150.00	$86,729.50
	G & J has included the installation of an automatic Irrigation System to successful water the native plant areas.				
	Water and Power will need to be provided either along the lakeshore or at hydrant locations.				
0043	Roll Out Beach Walk	55.00	LF	$175.50	$9,652.50
0046	Turbidity Curtain (3 each at 3400 ft)	10,200.00	LF	$30.46	$310,692.00

Notes/Exclusions

The foregoing proposal is explicitly conditioned upon the fact that G & J Site Solutions, Inc. and its employees, officers, directors, affiliates, subsidiaries, or successors , is NOT subject to and DOES NOT assume any obligations relating to wages, hours, benefits or any other terms and conditions of any labor agreement the recipient of this proposal or any other contractor or entity associated with the quoted work may be party. RATHER, ANY SUCH OBLIGATIONS ARE SPECIFICIALLY DISCLAIMED

G & J assumes installating Turbidity barrier in 500' sections as work progresses and 10 Mobilizaitons. Mainteance is Responsible of the Prime Contractor

G & J is not responsible for Traffic Control and Flagging

SUBTOTAL $830,453.21

G & J Site solutions, Inc. hereby to furnish all qualified labor; material; tools; competent supervision; layout; temporary support facilities; final clean up and all other services required to professionally perform and timely complete the soil erosion items in strict accordance within the contract documents.

All unit prices will be evaluated at the completions of work. Any additional work incidental to the project will be billed per the contract unit prices or on a Time and Materials rate sheet.

Authorized Signature
By: Geoffrey Cutsy
President

Authorized Accepting Signature
By:

G & J SITE SOLUTIONS

51811 Industrial Drive
Calumet, MI 49913
Phone: 906-369-3455 Fax 906-483-2455

Traverse City, Michigan
Phone: 231-941-4400 Fax 231-942-4404

Thursday, January 18, 2024

City of Marquette

Lake Superior Shoreline Restoration

Marquette County, Mi

Item #	Item Description	Quantity	Unit	Unit Price	Item Price
0001	Mobilization	1.00	LS	$45,650.00	$45,650.00
0009	Contruction Fencing	10,233.00	LF	$3.35	$34,280.55
0010	Silt Fence Installation	2,405.00	LF	$2.65	$6,373.25
0011	Inlet Protection	2.00	EA	$110.00	$220.00
0012	Erosion Control Mat	50,390.00	Sy	$2.96	$149,154.40
0018	Fine Grading All Turf Areas	10.44	ACRE	$1,465.00	$15,294.60
0025	Shade Trees - 2-1 2" Cal.	66.00	EA	$715.00	$47,190.00
0026	Evergreen Trees - 6' Ht.	27.00	EA	$630.00	$17,010.00
0027	Tree Guard	66.00	EA	$26.50	$1,749.00
0028	Tree Staking	93.00	EA	$65.00	$6,045.00
0029	Shrubs - 5 Gal.	210.00	EA	$64.00	$13,440.00
0030	Shrubs - 3 Gal.	374.00	EA	$41.50	$15,521.00
0031	Shrubs - 1 Gal.	79.00	EA	$26.50	$2,093.50
0032	Perrennials - Plugs	7,084.00	EA	$5.15	$36,482.60
0033	Emergent Plants - Plugs (4,543 SF @ 24" O.C.)	1,716.00	EA	$6.80	$11,668.80
0034	Dune Grass - Stolons (93,446 SF @ 24" O.C.)	26,055.00	EA	$1.65	$42,990.75
0035	Dune Seed Mix and Great Lakes Barrens Seed Mix A	4.81	ACRE	$4,482.58	$21,561.19
0036	Great Lakes Barrens Seed Mix B	4.92	ACRE	$3,951.31	$19,440.44
0037	Great Lakes Barrens Seed Mix C	1.55	ACRE	$6,193.11	$9,599.32
0038	Great Lakes Marsh Seed Mix	0.79	ACRE	$6,143.96	$4,853.72
0039	Vegetation Management - All Areas (including preserved areas) 3 years	12.37	ACRE	$7,385.00	$91,352.45
0043	Roll Out Beach Walk	55.00	LF	$180.00	$9,900.00
0046	Turbidity Curtain (3 each at 3400 ft)	10,200.00	LF	$47.00	$479,400.00

G & J has included the installation of an automatic irrigation system to successfully water all native plants and trees

Water and power will need to be provided either aong the lakeshore or at the hydrant location

Notes/Exclusions

The foregoing proposal is explicitly conditioned upon the fact that G & J Site Solutions, Inc. and its employees, officers, directors, affiliates, subsidiaries, or successors , is NOT subject to and DOES NOT assume any obligations relating to wages, hours, benefits or any other terms and conditions of any labor agreement the recipient of this proposal or any other contractor or entity associated with the quoted work may be party. RATHER, ANY SUCH OBLIGATIONS ARE SPECIFCIALLY DISCLAIMED

G & J is not responsible for Traffic Control and Flagging

SUBTOTAL $1,081,270.58

G & J Site solutions, Inc. hereby to furnish all qualified labor; material; tools; competent supervision; layout; temporary support facilities; final clean up and all other services required to professionally perform and timely complete the soil erosion items in strict accordance within the contract documents.

All unit prices will be evaluated at the completions of work. Any additional work incidental to the project will be billed per the contract unit prices or on a Time and Materials rate sheet.

Authorized Signature
By: Geoffrey Cutsy
President

Authorized Accepting Signature
By:

Gmail

John Daavettila <johnd@smith49855.net>

Master Services Agreement and Shoreline Cost Estimate

2 messages

Abraham, Chris <cabraham@geiconsultants.com> Thu, Jan 18, 2024 at 3:44 PM
To: "johnd@smith49855.net" <johnd@smith49855.net>, Wyatt Smith <wasmith@smith49855.net>
Cc: "Roberts, Isaac" <iroberts@geiconsultants.com>, "Prentice, Samuel" <sprentice@geiconsultants.com>, "Helppi, Chad" <chelppi@geiconsultants.com>

Hi John and Wyatt,

Thank you for taking the time to meet with us on Tuesday. Per our discussion, attached you will find the Master Services Agreement for 2024 and also the Cost Estimate for the services requested related to the City of Marquette – Lakeshore Boulevard Shoreline Project.

Task A presents fees for the laboratory testing. Please note that we will use a partner in the industry for both the Wet-Dry and Freeze-Thaw tests. The fees presented on the spreadsheet include the cost to ship the samples to our partner. GEI will perform the remaining testing here in Marquette. As I mentioned in the meeting, I would suggest trying to have the City accept the materials without the laboratory testing. At least the materials that you will be reusing. If successful there could be some cost savings here.

Tasks B & C present fees associated with field services as we discussed in the meeting.

Lastly, Task D presents the fees associated with processing the pre and post construction survey data.

Please review the cost estimate and feel free to contact me if you have any questions.

Best regards,

CHRIS R. ABRAHAM, PE, (MI, WI)
Vice President / Branch Manager

GEI

cell: 906.284.9044

109 W. Baraga Avenue, Marquette, MI 49855

Estimated Budget Table - Revision 1
Construction Quality Assurance Observation and Testing Services
Lakeshore Boulevard Restoration Project
Marquette, Michigan

Task A - Laboratory Agrregate Testing

This task assumes 1 test will be required for the existing material that will be reused and 1 test will be required that represents the processed and imported materials. Test results will be submitted under transmittal.

Resource	Units	Unit Cost	Units		Cost
Relative Density, SSD, Absorption	test	$ 225	2	$	450
Wet-Dry	test	$ 2,100	2	$	4,200
Freeze-Thaw	test	$ 2,100	2	$	4,200
Soundness	test	$ 750	2	$	1,500
LA Abrasion	test	$ 275	2	$	550

Estimated Subtotal (Task A): $ 10,900

Task B - Site Observation and Testing of Re-Purposed Stone (A1)

This task assumes a Field Professional will be required on-site for 10 days averaging 10 hours per day to perform gradation testing on the existing material that will be re-used for this project. Test results will be submitted under transmittal.

Resource	Units	Unit Cost	Units		Cost
Senior Consultant - Grade 8	hour	$ 283	4	$	1,132
Project Professional - Grade 4	hour	$ 131	10	$	1,310
Field Professional	hour	$ 107	100	$	10,700
Administrative Staff	hour	$ 80	8	$	640
Mileage	mile	$ 0.75	100	$	75

Estimated Subtotal (Task B): $ 13,857

Task C - Site Observation and Testing of Quarry Stone (R1, R2 and D)

This task assumes a Field Professional will be required on-site for 45 days averaging 8 hours per day to perform gradation testing on the newly processed quarry material that will be used for this project. Test results will be submitted under transmittal.

Resource	Units	Unit Cost	Units		Cost
Senior Consultant - Grade 8	hour	$ 283	12	$	3,396
Project Professional - Grade 4	hour	$ 131	36	$	4,716
Field Professional	hour	$ 107	360	$	38,520
Administrative Staff	hour	$ 80	28	$	2,240
Mileage	mile	$ 0.75	450	$	338

Estimated Subtotal (Task C): $ 49,210

Task D - Pre and Post Construction Cross-Section Development

This task assumes an Project Engineer will spend approximately 2 hours each week over 34 weeks, during construction, to process survey data for quantity verification. This engineer will also develop AutoCAD Civl 3D base files for data processing as well and final record drawings of stone placement along the revetment area. Deliverables are anticipated to incorporate a cover sheet, plan of area of influence, and cross-sections at 25 foot intervals along the revetment area. Data will be submitted under transmittal.

Resource	Units	Unit Cost	Units		Cost
Senior Consultant - Grade 8	hour	$ 283	18	$	5,094
Senior Professional - Grade 5	hour	$ 148	50	$	7,400
Project Professional - Grade 3	hour	$ 121	132	$	15,972
Administrative Staff	hour	$ 80	36	$	2,880
				$	-

Estimated Subtotal (Task D): $ 31,346

Total = $ 105,312.50

Note: These costs should be considered an estimate of possible project costs based on broad assumptions regarding project schedule, quanitity of testing required, and our experience with projects similar in nature. Actual costs will be determined based on the level of effort and the quanitity of testing required. Furthermore, the amount of observation and/or testing required to meet the project specifications and to document the material quality must be determined by the owner and/or contractor, regardless of the quantities estimated herein.

GEI Consultants

Consulting Engineers and Scientists

May 5, 2022
Proposal No. 610043

John Daavettila
Smith Construction, Inc.
4090 US-41
Marquette, MI 49855
johnd@smith49855.net

RE: Lake Superior Shoreline Restoration, Marquette, Michigan

Dear Mr. Daavettila:

GEI Consultants of Michigan, P.C. (GEI) is pleased to provide the following proposal for the Lake Superior Shoreline Restoration in Marquette, Michigan. Proposed restoration and material testing scope and costs associated with the project have been provided below. All scope and costs are per the City of Marquette Bid Documents MQ13-502 BP22-04 and the five bid addendums.

Scope of Services and Assumptions

This section outlines GEI's proposed scope of services which includes the following pay items:

- 012 (Erosion Control Mat),
- 025-39 (evergreen and shade tree planting, shrub, plug, and dune grass planting, seeding, and vegetation management),
- 048-51 (Living Revetment Stone),
- 054-056 and 59 (Pocket Beach Stone),
- 061-62 and 064-66 (North and South Outfall Stone), and
- 069-71 (Armor Stone Shoreline Stabilization).

Pay items 025-39 will be a combination of field oversight of Superior Watershed Partnership's (SWP) Great Lakes Conservation Corps (GLCC) and installation and maintenance by GEI. These roles will be further detailed in the pay item descriptions below.

Please note mobilization fees are included within each bid item and are not itemized in the separate mobilization bid item. We assume all soil preparation will be completed by the prime contractor prior to SWP GLCC or GEI mobilizing to the site. The preparation of the Quarry Quality Control Program (QQCP) is also included, with fees spread across pay items 048-51, 054-056, 59, 061-62, 064-66, and 069-71.

We assume the prime contractor, or their subcontractors will complete the remainder of the project to the client's approval. Each of the following scope items follows the pay item form provided by the City of Marquette.

Pay Item 12 – Erosion Blanket

GEI will install forty-nine thousand four hundred forty-two (49,442) square yards of erosion blanket as specified in Section 6.11, Native Seeding. This material will meet the 100% biodegradable and double netting specification. GEI will source and order these materials and unloading and placement of ECM near the installation location by the Prime Contractor will be appreciated and increase efficiency of installation. Erosion Blanket will be installed in accordance with the specified manufacturer's instructions after seeding has been completed. To secure the blanket, natural-based plastic fasteners that are 100% biodegradable meeting ASTM D5338 and D5271 will be installed.

Pay Items 025 through 28 – Evergreen Trees, Shade Trees, Tree Guards, and Tree Staking

Evergreen and shade trees will be installed by GEI prior to seeding and blanketing. GEI assumes excavation of planting holes for evergreen and shade trees will be completed by Prime Contractor. Scarifying edges of planting holes and stockpiling of loose excavated material near the holes by the prime contractor will be appreciated and decrease hauling and installation time for the ninety-three (93) evergreen and shade trees included in the project.

After installation, hardwood mulch will be spread around the trees and a soil saucer will be constructed by GEI as shown on the project drawings. Tree stakes will be installed on all trees, with tree guards buried into the backfill around the trees and installed on only the sixty-six (66) shade trees. Species and sizes of all live material are subject to change due to nursery availability at time of shipping. Species substitutions will be subject to approval by the Owner/Engineer.

Pay Items 029 through 34 – Shrubs, Plugs, and Dune Grass Stolons

These pay items includes procurement, delivery, unloading, and observation by GEI. Installation of the shrubs, plugs, and dune grass stolons will be provided by SWP GLCC. GEI will be present at the project site to observe delivery and unload the plant material and will continue to remain onsite to observe the SWP GLCC crew during installation. We have assumed plant installation will take three to four (3-4) weeks and have estimated oversight for fifteen (15), 10-hour days. Following plant installation, GEI will perform final inspections and communicate with the Prime Contractor that planting work is complete.

Pay Items 035 through 38 – Dune Seed Mix, Great Lakes Barrens, and Great Lakes Marsh

This item includes all labor, materials, and equipment necessary for planting the dune seed mix, Great Lakes Barrens Seed Mixes A, B, and C, and the Great Lakes Marsh Seed Mix. The total seeding area is 11.97 acres. Seed mixes will be installed following grading and soil preparation by the prime contractor and herbicide application by a subcontracted organization of GEI.

Pay Item 39 – Vegetation Management

Following completion of all planting, seeding, and blanketing pay items, maintenance will be performed at the site on the entire 12.13 acres of planting area to meet the 3-year warranty requirement. Maintenance includes watering as many as one (1) time in 2022, four (4) times in 2023, four (4) times in 2024, and twice (2) in 2025. Mowing with a flail-type mower up to eight (8) times is included for the entire management period, and spot application of herbicide via wick or soaked gloved methods by a certified pesticide application until October 1, 2025. In addition, we have also included a single (1) replanting and seeding effort for the duration of the vegetation management period. We assume the division of responsibilities between GEI and SWP's GLCC will be the same as Pay Items 029 through 34.

Three (3) years of vegetation monitoring is also included in this Pay Item. This includes meeting the requirements of the vegetation performance standards within the National Fish and Wildlife Foundation (NFWF) Appendix D. Vegetation sampling transects will be performed each year and a summary report will be produced each year to be shared with the Prime Contractor, Owner, and Engineer. Field time for this item is estimated at one (1) week every year for three years and one (1) week every year for three years to complete the reporting requirements.

Pay Items 048, 055 through 56, 062, 066, and 070 through 71 – A1 and A2 Armor Stone

This item includes all labor to complete the QQCP and perform quality control inspections on all armor stones placed on the project site. This includes an estimated four-thousand nine-hundred and sixty-nine (4,969) tons of A1 and A2 stone sourced either from an approved quarry or from the existing shoreline adjacent to the project site. GEI will provide a draft of the QQCP to the Prime Contractor for review and it will be the contractor's responsibility to submit the final draft to the Engineer and Owner for approval. Following approval, GEI will complete pre-production responsibilities including selecting the set of Pre-Production Reference Stones that are free of cracks and collecting information on their corresponding size and aspect ratio. GEI will attend the Pre-production site visit and inspection and accompany the Engineer during their inspection. During the inspection, gradations for armor stone will be provided. We assume the quarry will be within 30 miles of the project site.

During construction, GEI will measure each armor stone in three dimensions, estimate the aspect ratio based on these measurements, and record the weight of each stone. GEI assumes armor stone will be laid out by the Prime Contractor with room in between to make inspection and measuring more efficient and safe. If necessary, the Prime Contractor will have an operator and heavy equipment available to roll the armor stones for measures and inspection of cracks. We assume the Prime Contractor chooses to salvage stone from the existing shoreline, therefore GEI will perform these testing services at the project site. This portion of the project is estimated to take twenty-seven (27) 10-hour workdays to complete.

GEI assumes the Prime Contractor will supply the remaining stone quality control requirements, including, but not limited to:

1. Drop tests during the pre-production inspection and construction, and
2. ASTM D 4992, ASTM C127, ASTM D 5313, ASTM D 5312, and ASTM D 5420 Compliance.

Pay Items 049 through 50, 054, 065, and 069 – R1 and R2 Riprap

This item includes all labor to complete the QQCP and perform quality control inspections on all riprap stones placed on the project site. This includes an estimated ninety-three thousand one-hundred forty-eight (93,148) tons of R1 and R2 stone sourced either from an approved quarry or from the existing shoreline adjacent to the project site. During production and hauling, GEI will complete a gradation test every 2,500 and 5,000 tons for R1 and R2 stone, respectively. This results in approximately 32 tests of R1 material and 3 tests for R2 material. GEI assumes R1 and R2 stone will be loaded and processed during the gradation by the Prime Contractor. If the Prime Contractor chooses to salvage R1 and R2 stone from the existing shoreline, GEI can perform these same testing services at no additional cost at the project site instead of at the quarry. This portion of the project is estimated to take thirteen (13) 10-hour workdays to complete.

GEI assumes the Prime Contractor will supply the remaining stone quality control requirements, including, but not limited to: ASTM D 4992, ASTM C127, ASTM D 5313, ASTM D 5312, and ASTM D 5420 Compliance.

Pay Items 051, 059, 061, and 064 – D Bedding Stone

This item includes all labor to complete the QQCP and perform quality control inspections on all bedding stone placed on the project site. This includes an estimated six-hundred fifty-two (652) tons of D stone sourced either from an approved quarry or from the existing shoreline adjacent to the project site. During production and hauling, GEI will complete a gradation test on two (2) samples. GEI assumes D stone will be loaded and processed during the gradation by the Prime Contractor. If the Prime Contractor chooses to salvage D stone from the existing shoreline, GEI can perform these same testing services at no additional cost at the project site instead of at the quarry. This portion of the project is estimated to take one (1) 10-hour day to complete.

GEI assumes the Prime Contractor will supply the remaining stone quality control requirements, including, but not limited to: ASTM D 4992, ASTM C127, ASTM D 5313, ASTM D 5312, and ASTM D 5420 Compliance.

Assumptions

- GEI assumes grading, soil preparation, assistance with unloading heavy materials, and tree hole excavation will be provided by the prime contractor.
- GEI will not be responsible for traffic control during the life of the contract.
- GEI assumes the contractor will finish grading enough area at a time to accommodate five (5) consecutive weekday workdays for SWP GLCC and GEI staff.
- Species and sizes of live plant material are subject to change due to nursery availability at time of shipping, Species substitutions will be subject to approval by the Owner/Engineer.

Project Fees

The proposed scope of services outlined above will be performed on a lump sum basis for restoration items, not to exceed $392,998 and for stone and quality control on an estimated time and materials basis of $69,016. This fee is broken down by bid item in the table below:

Base Bid Item No.	Description	Quantity	Unit	Bid Amount
12	Erosion Blanket	49,442	Syd	$113,191
25	Shade Trees- 3" Cal.	66	Each	$23,155
26	Evergreen Trees- 6' Height	27	Each	$7,701
27	Tree Guard	66	Each	$2,733
28	Tree Staking	93	Each	$3,842
29	Shrubs- 5 gal	192	Each	$4,196
30	Shrubs- 3 gal	343	Each	$9,889
31	Shrubs - 1 gal	75	Each	$7,271
32	Perennials - Plugs	6,710	Each	$14,762
33	Emergent Plants - Plugs (4,543 SF @ 24" O.C.)	1,248	Each	$4,691
34	Dune Grass (93,446 SF @ 24" O.C.)	22,542	Each	$34,470
35	Dune Seed Mix and Great Lakes Barrens Seed Mix A	4.75	Acre	$8,929
36	Great Lakes Barrens Seed Mix B	4.97	Acre	$9,210
37	Great Lake Barrens Seed Mix C	1.62	Acre	$4,910
38	Great Lakes Marsh Seed Mix	0.63	Acre	$841
39	Vegetation Management – All Areas (including preserved areas) 3 years	12.13	Acre	$143,207
48	Living Revetment (Comprised of Stone) - Armor Stone 1-2 Ton (A1 Stone)	365	Ton	$3,178
49	Living Revetment (Comprised of Stone) Quarried Cobble Sized Stone 4-8 inches (R2 Stone)	81,760	Ton	$4,131
50	Living Revetment Living Revetment (Comprised of Stone) Quarried Stone - 6-18 Inches (R1 Stone)	6,340	Ton	$6,991
51	Living Revetment Living Revetment (Comprised of Stone) - Blinding Stone D Stone	113	Ton	$976
54	Pocket Beach - Quarried Stone - 6-18 Inches (R1 Stone)	3,409	Ton	$4,121
55	Pocket Beach - Armor Stone - 1-2 Ton (A1 Stone)	2,276	Ton	$15,717
56	Pocket Beach - Armor Stone - 1-2 Ton (A2 Stone)	457	Ton	$9,990
59	Pocket Beach - Blinding Stone (D Stone)	381	Ton	$1,435
61	North Outfall - Bedding Stone (D Stone)	53	Ton	$874
62	North Outfall - Armor Stone 1-2 Ton (A1 Stone)	105	Ton	$1,472
64	South Outfall - Blinding Stone (D Stone)	105	Ton	$963
65	South Outfall - Quarried Stone – 6-18 inches (R1 Stone)	1,241	Ton	$1,998
66	South Outfall - Armor Stone - 1-2 Ton A1	1,766	Ton	$12,371

Base Bid Item No.	Description	Quantity	Unit	Bid Amount
	Stone 1766 Tons			
69	Armor Stone Shoreline Stabilization - Quarried Stone R1 Stone 408 Tons	408	Ton	$1,182
70	Armor Stone Shoreline Stabilization - Armor Stone - 1-2 Ton A1 Stone 432 Tons	432	Ton	$3,618
			Total Base Bid:	**$462,014**

Schedule of Unit Prices

The table below outlines unit prices that the prime contractor may include within their bid. We understand that these unit prices may or may not be incorporated into the Contract Documents based on the Prime Contractor's negotiations with the Owner.

Base Bid Item No.	Description	Unit	Unit Cost
12	Erosion Blanket	Syd	$2.29
25	Shade Trees- 3" Cal.	Each	$350.84
26	Evergreen Trees- 6' Height	Each	$285.24
27	Tree Guard	Each	$41.41
28	Tree Staking	Each	$41.31
29	Shrubs- 5 gal	Each	$37.87
30	Shrubs- 3 gal	Each	$28.83
31	Shrubs - 1 gal	Each	$55.94
32	Perennials - Plugs	Each	$2.20
33	Emergent Plants - Plugs (4,543 SF @ 24" O.C.)	Each	$3.76
34	Dune Grass (93,446 SF @ 24" O.C.)	Each	$1.35
35	Dune Seed Mix and Great Lakes Barrens Seed Mix A	Acre	$1,879.86
36	Great Lakes Barrens Seed Mix B	Acre	$1,853.11
37	Great Lake Barrens Seed Mix C	Acre	$3,031.04
38	Great Lakes Marsh Seed Mix	Acre	$1,334.39
39	Vegetation Management – All Areas (including preserved areas) 3 years	Acre	$11,806.02
48	Living Revetment (Comprised of Stone) - Armor Stone 1-2 Ton (A1 Stone)	Ton	$10.96
49	Living Revetment (Comprised of Stone) Quarried Cobble Sized Stone 4-8 inches (R2 Stone)	Ton	$0.05
50	Living Revetment Living Revetment (Comprised of Stone) Quarried Stone - 6-18 Inches (R1 Stone)	Ton	$1.10
51	Living Revetment Living Revetment (Comprised of Stone) - Blinding Stone D Stone	Ton	$8.64
54	Pocket Beach - Quarried Stone - 6-18 Inches (R1 Stone)	Ton	$1.21
55	Pocket Beach - Armor Stone - 1-2 Ton (A1 Stone)	Ton	$9.16
56	Pocket Beach - Armor Stone - 1-2 Ton (A2 Stone)	Ton	$29.80
59	Pocket Beach - Blinding Stone (D Stone)	Ton	$3.77
61	North Outfall - Bedding Stone (D Stone)	Ton	$16.49

62	North Outfall - Armor Stone 1-2 Ton (A1 Stone)	Ton	$16.28
64	South Outfall - Blinding Stone (D Stone)	Ton	$9.17
65	South Outfall - Quarried Stone – 6-18 inches (R1 Stone)	Ton	$1.61
66	South Outfall - Armor Stone - 1-2 Ton A1 Stone 1766 Tons	Ton	$9.26
69	Armor Stone Shoreline Stabilization - Quarried Stone R1 Stone 408 Tons	Ton	$2.90
70	Armor Stone Shoreline Stabilization - Armor Stone - 1-2 Ton A1 Stone 432 Tons	Ton	$10.63

Please review the proposal and call the GEI Project Manager, Sam Prentice, at 906-629-6069 or email sprentice@geiconsultants.com with any questions you may have. These costs remain valid for acceptance within sixty (60) days of the date on this proposal.

Sincerely,

GEI CONSULTANTS OF MICHIGAN, P.C.

Samuel H. Prentice, PE
Project Manager

George M. Meister
Senior Engineer

SHP/GMM:lmc

Agenda Date: 2/12/2024

New Business
PIDP - Protecting Critical Infrastructure and Improving Efficiency Dredging Project - Contract Approval

BACKGROUND:

The City of Marquette received a grant from the US Department of Transportation Maritime Administration for dredging at the mouth of the Dead River near the upper harbor ore dock. The proposed project will realign and buffer the river outlet to a more favorable location. Dredge sands will be beneficially reused for shoreline stabilization and restoration at various locations between Fair Avenue and Hawley Street. The City is partnering with Cliffs Natural Resources/LS&I Railroad on this project with LS&I funding the non-federal match portion as shown in the attached memorandum of understanding.

The City advertised this project for bids on December 19, 2023. A bid opening occurred on February 1, 2024 with five bidders responding. The results are summarized below.

Contractor	Bid
K&M Industrial, LLC	$980,496.43
Smith Construction, Inc.	$1,009,026.64
MJO Contracting, Inc.	$1,174.031.10
MAE	$1,190,950.00
Veit & Company	$1,199,042.50
Engineer's Estimate	$1,210,938.50

FISCAL EFFECT:

None. City expenses will be fully reimbursed by the Port Infrastructure Development Grant.

RECOMMENDATION:

Approve a contract with K&M Industrial, LLC of Gladstone, Michigan at a cost of $980,496.43 based on the quantities and unit prices bid, and authorize the City Manager to use remaining grant funding allocated toward construction with a total amount not-to-exceed $1,480,000 for any unknown circumstances and additional dredging if permitted, and authorize the Mayor and Clerk to sign the Contract.

ALTERNATIVES:

As determined by the Commission.

ATTACHMENTS:

Description

- Construction Contract
- Bid Tabulations
- Construction Plans
- PIDP Grant Agreement
- LS&I MOU

CITY OF MARQUETTE
CHAPTER 3
CONSTRUCTION CONTRACT

PROJECT NAME: Protecting Critical Infrastructure and Improving Efficiency Project

PROJECT NUMBERS: MQ13-504

THIS AGREEMENT, made this _____, between the City of Marquette, a Michigan Municipal Corporation, hereinafter called the "City" of 300 W. Baraga Avenue, Marquette, MI 49855, and K & M Industrial LLC of Gladstone Michigan, a Domestic Limited Liability Corporation, holding license number 801492675, hereinafter called "Contractor".

WITNESSETH: That for and in consideration of the payments and Agreements hereinafter mentioned, the parties hereby agree as follows:

ARTICLE 1

CONTRACT DOCUMENTS

The "Contract Documents" consist of, but are not necessarily limited to, this Agreement, the invitation to Bid, Information for Bidders, Bidders Proposal, Addenda, Specifications, Supplemental Specifications, Special Provisions, Construction Drawings, Notice to Proceed, Allowances, Finish Schedules, GENERAL TERMS AND CONDITIONS UNDER THE FISCAL YEAR 2021 PORT INFRASTRUCTURE DEVELOPMENT PROGRAM (PIDP) GRANTS Dated 10/27/23, U.S. DEPARTMENT OF TRANSPORTATION EXHIBITS TO MARAD GRANT AGREEMENTS UNDER THE FISCAL YEAR 2021 PORT INFRASTRUCTURE DEVELOPMENT PROGRAM (PIDP) GRANTS dated 7/14/22 and any additional documentation issued prior to execution of this Agreement and all Change Orders as approved by the City. These Contract Documents represent the entire Agreement and understanding between the parties hereto.

ARTICLE 2

SCOPE OF WORK

Contractor will furnish all the materials, supplies, tools, equipment, labor and other services necessary for the construction and completion of the project described in the Contract Documents.

ARTICLE 3

MATERIALS, APPLIANCES, and EMPLOYEES

Except as otherwise noted, the Contractor shall provide and pay for all materials, labor, tools and other items necessary to complete the work. Unless otherwise specified, all materials shall be new, and both workmanship and materials shall be of good quality. All workmen shall be skilled in their trades.

ARTICLE 4

TIME OF COMPLETION

The commencement date of this project is February 20, 2024, and the completion date of this project is November 30, 2024. The Contractor shall be penalized in the amount of $900 per day if the project is not completed by the contract completion date unless the period for completion is extended by change order.

ARTICLE 5

CONTRACT SUM

The Contractor agrees to perform all of the work described in the Contract Documents and comply with the terms therein for the sum of $980,496.43, subject to additions and deductions pursuant to authorized change orders and allowances.

ARTICLE 6

PAYMENTS

The City will pay to the Contractor in the manner and at such times as set forth in the Specifications such amounts as required by the Contract documents.

ARTICLE 7

CONTRACTOR'S OBLIGATIONS

1. All work shall be in accordance to the provisions of the Contract Documents. All systems shall be in good working order.
2. All work shall be completed in a workmanlike manner and shall comply with all applicable laws.
3. Contractor shall obtain all necessary permits for the work to be completed.
4. Contractor shall remove all construction debris and leave the project in a "broom clean" condition.
5. Upon satisfactory payment being made for the work performed by Contractor, Contractor shall furnish a full and unconditional Release of Lien for the work of which payment has been made.
6. Safety and Fire Protection:
   The Contractor shall be responsible for safety at the construction site. The Contractor will further comply with all applicable laws, rules and regulations of the Michigan Department of State Police, Fire Marshall Division, the State Fire Safety Board, Michigan Occupational Safety and Health Administration, and Local Agencies. Precaution shall be exercised at all times for the protection of persons and of property. The safety provisions of applicable laws, rules, regulations, building and construction codes shall be followed. Safety Hazards shall be guarded in accordance with safety provisions of the Manual of Accident Prevention in

Construction published by The Associated General Contractors of America to the extent that such provisions are not in conflict with applicable laws.

ARTICLE 8

CONTRACTOR'S STATUS AS INDEPENDENT ENTITY

The City shall not assume any liability for the Contractor in the performance of the construction project, methods, techniques, sequences or programs in connection with the project since these are solely the Contractor's responsibility.

ARTICLE 9

CHANGE ORDERS AND PAYMENT

A change order is any change to the original plans and/or specifications. All change orders need to be agreed upon between the parties hereto, and address additional costs, time, consideration and dates when the work will begin and be completed. Change orders are not effective unless signed by both parties who shall not unreasonably withhold approval of the same. However, should the Contractor unreasonably refuse to approve a change order reasonably and in good faith submitted by the City, the City Engineer shall be empowered to make a final and fair determination as to the necessity for the change order and the fair and equitable cost to the Contractor and shall further be empowered to issue a final payment to the Contractor. Should the Contractor refuse to accept said final payment, the funds may be deposited in an Escrow Account by the City for the benefit of the Contractor.

ARTICLE 10

INSURANCE

The Contractor shall purchase and maintain Workman's Compensation and Liability Insurance coverage as required by law and deemed necessary for its own protection. Said insurance shall be written by an insurance carrier having at least an "A, VII" rating. The Contractor shall further name the City as an additional insured on all applicable insurance policies covering the project. Said insurance shall be in minimum limits of at least $5,000,000.00 for both general liability and automobile liability. The Contractor shall further maintain such insurance as will protect it from claims under worker's compensation acts and other employee benefits acts, from claims for damages because of bodily injury, including death, and from claims for damages to property which may arise both out of and from claims for damages to property which may arise both out of and during operations under this contract, whether such operations are by Contractor or by anyone directly or indirectly employed by the Contractor. This insurance shall be written for not less than any limits of liability specified as part of the Contract Documents. Certificates of such insurance shall be filed with the City.

ARTICLE 11

INDEMNIFICATION

To the extent allowed by MCL 691.991, the Contractor shall indemnify and hold harmless the City, the City's officers, directors, members, partners, agents, and employees against all liability claims and judgments or demands for damages arising from accidents to

persons or property occasioned by the Contractor, its agents or employees, and against all claims or demands for damages arising from accidents to the Contractor, its agents or employees, whether occasioned by said Contractor or its employees or by City or its employees or any other person or persons, and the said Contractor will defend any and all suits that may be brought against the City on account of any such accidents and will make good to, and reimburse, the City for any expenditures that said City may make by reason of such accidents; provided, however, that the Contractor shall not be responsible to the City on indemnity for damages caused by or resulting from the City's sole negligence.

ARTICLE 12

CITY'S RIGHT TO TERMINATE THE CONTRACT

Should the Contractor neglect to perform the work properly or fail to perform any provision of the Contract, the City, after seven (7) days' written notice to the Contractor, and its surety, if any, may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor or, at its option, may terminate the Contract and take possession of all materials, tools and appliances and finish the work by such means as it sees fit, and if the unpaid balance of the contract price exceeds the expense of finishing the work, such excess shall be paid to the Contractor, but if such expense exceeds such unpaid balance, the Contractor shall pay the difference to the City.

ARTICLE 13

CONTRACTOR'S RIGHT TO TERMINATE CONTRACT

Should the work be stopped by any public authority for a period of ninety (90) days or more, through no fault of the Contractor, or should the work be stopped through act or neglect of the City for a period of ninety (90) days, then the Contractor, upon seven (7) days' written notice to the City, may stop work or terminate the Contract and recover from the City payment for all work executed and any loss sustained and reasonable profit and damages.

ARTICLE 14

ACCESS TO WORK

The Contractor shall permit and facilitate observation of the work by the City and its agents and public authorities at all times.

ARTICLE 15

ARBITRATION OF DISPUTES

Any disagreement arising out of this contract or from the breach thereof shall be submitted to arbitration, and judgment upon the award rendered may be entered in the court of the forum, state or federal, having jurisdiction. It is mutually agreed that the decision of the arbitrators shall be a condition precedent to any right of legal action that either party may have against the other. The arbitration shall be held under the Rules of the American Arbitration Association.

ARTICLE 16

WARRANTY

At the completion of this project, Contractor shall execute an instrument to City warranting the project for two (2) years against defects in workmanship or materials utilized. In addition the warranty shall specifically include the replacement of concrete that spalls more than 30% per 10 foot section of curb and gutter, the replacement of concrete that spalls more than 30% per driveway apron square or sidewalk square, and the replacement of stamped concrete that spalls more than 30% of the area between each sidewalk square and the curb. The manufacturer's warranty shall prevail.

At the time of completion, the Contractor shall furnish to the City material containing complete operation and maintenance instructions for all equipment in the project. The Contractor shall also furnish to the City at the time of completion all documents, warranties and guarantees on all equipment and services provided.

The Contractor shall re-execute any work that fails to conform to the requirements of the Contract and that appears during the progress of the work and shall remedy any defects due to faulty workmanship, which appear within a period of two (2) years from the date of completion of the Contract or such longer period of time as may be prescribed by laws or regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents. All equipment and materials will be warranted and guaranteed under the original equipment manufacturer's warranties and guarantees.

The Contractor shall restore any work damaged in fulfilling the terms and conditions of this Article. After such repair or replacement has been satisfactorily completed, the Contractor's warranty with respect to such work repaired or replaced will be extended for an additional period of one (1) year beyond the warranty period described above. Contractor's obligations under this paragraph are in addition to any other obligation or warranty.

The terms of the Local Pavement Warranty Program adopted by the City of Marquette are hereby incorporated by reference into this contract and made a part hereof.

ARTICLE 17

FEDERAL-AID CONTRACTS

During the performance of every contract subject to Title VI of the Civil Rights Act of 1964 and Title 49, Code of Federal Regulations, Department of Federally-assisted programs of the Department of Transportation issued pursuant to the Act, the Contractor, for itself, its assignees and successors in interest agrees as follows:

1. **Compliance with Regulations**: The Contractor shall comply with Regulations relative to nondiscrimination in Federally-assisted programs of the Department of Transportation, Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time (hereinafter refereed to as the Regulations), which are herein incorporated by reference and made a part of this contract.
2. **Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, sex or

national origin in the selection, retention and treatment of Subcontractors, including procurements of materials in the discrimination prohibited by Section 21.5 of the Regulation, including employment practices when the Contractor covers a program set forth in Appendix B of the Regulations.

3. **Solicitation for Subcontracts, including Procurements of Materials and Equipment**: In all solicitations either by competitive bidding or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential Subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under the contract and the Regulations relative to nondiscrimination on the grounds of race, color or national origin.
4. **Information and Reports**:
   The Contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the State Highway Department of the Federal Highway Administration to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the State Highway Department or the Federal Highway Administration, as appropriate, and shall set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance**:
   In the event the Contractor's noncompliance with the nondiscrimination provisions of this contract, the State Highway Department shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
   a) Withholding payments to the Contractor under the contract until the Contractor complies; and/or
   b) Cancellations, termination or suspension of the contract, in whole or in part.
6. **Incorporation of Provisions**:
   The Contractor shall include provisions of paragraphs (1) through (6) in every subcontract, including procurement of material and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontract or procurement as the State Highway Department or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance; provided, however, that, in the event a Contractor becomes involved in, or is threatened with, litigation with a Subcontractor or supplier as a result of such direction, the Contractor may request the State Highway Department to enter into such litigation to protect the interests of the State, and, in addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

ARTICLE 18

INTEGRATION

This Agreement represents the entire understanding between the parties hereto and may not be amended, except in writing that is signed by both parties hereto.

ARTICLE 19

BINDING AGREEMENT

This Agreement will bind and inure to the benefit of the heirs, executors, administrators, successors and assigns of the parties.

ARTICLE 20

PURCHASING AGENT DESIGNATION AND AUTHORITY

Mikael H. Kilpela is designated as Purchasing Agent of City and is authorized to order minor changes in the work not involving adjustment in the Contract Sum or Time of Completion and not inconsistent with the intent of the Contract Documents. Such changes will be affected by written order signed by the Purchasing Agent and shall be binding on the City and Contractor.

IN WITNESS WHEREOF, the parties have made and executed this Agreement, the day and year first above written.

Signed this _____ day of _____, 20___.

THE CITY OF MARQUETTE

_____
Witness

_____
Sally Davis, Mayor
City of Marquette

_____
Witness

_____
Kyle L. Whitney, City Clerk
City of Marquette

CONTRACTOR

_____
Witness

_____
Witness

By: Josh King

Its: President/owner

Address: 30 Delta Ave, Gladstone, MI 49837

Telephone#: 906-420-8770

APPROVED AS TO FORM:

_____
Suzanne C. Larsen
City Attorney

APPROVED AS TO SUBSTANCE:

_____
Karen M. Kovacs
City Manager

General Info

Total:

$1,199,042.50

Number

BP24-03

Deadline

02/01/2024 10:00 AM EST

Vendor

Veit & Company, Inc.

Submitted

02/01/2024 09:28 AM EST

Signed by

Brian Volk
Account Holder Brian Volk

Opened

02/01/2024 10:01 AM EST
By
kwessels@marquettemi.gov

Description

The work under this contract consists of dredging sand material from Lake Superior near the mouth of the Dead River. The dredged material will be used to reroute the existing river channel, for beach nourishment between Pine Street and Fair Avenue, with the remainder being placed either within the Cliffs Dow Site, or an area southeast of the intersection of Lakeshore Boulevard and Wright Street.

Allows zero unit prices and labor

No

Allows negative unit prices and labor

No

Attachment List

MQ13-504 Bid Set.pdf (29.2 MB)
Project Plans

MQ13-504 Final Specifications.pdf (42.7 MB)
Project Specifications

Addendum #1.pdf (274 KB)
Addendum #1

MQ13-504 BASE NORTH.dwg (36.6 MB)
Drawing File for Dredging Area

MQ13-504 BASE SOUTH.dwg (2.68 MB)
Drawing File for Beach Nourishment Area

Addendum #2.pdf (132 KB)
Addendum #2

Bidder Signature Page

---

1. In compliance with the City's Invitation to Bid, Bidder hereby proposes to perform all work in accordance with the Plans and Specifications at the unit prices, as submitted herein, for the several parts of this contract.

2. The undersigned, as bidder, hereby declares the Proposal is made in good faith, without fraud or collusion with any person or persons bidding on the same contract, that he has read and examined the Advertisement, Invitation to Bid, Information for Bidders, Proposal, General Requirements, Agreement, Forms of Bonds, and Plans and Specifications as prepared by the Engineer, and understands all of the same; that he or his representative has made personal investigation at the site and has informed himself fully with regard to conditions to be met in executing this Contract, and the undersigned agrees to furnish all labor, materials, power, transportation and equipment necessary for the construction of the Project.

3. If the proposal establishes a maximum price for any of the following work items, and if you bid a price higher than that maximum price, your bid will be considered to have quoted the maximum price and your bid total will be adjusted to reflect that maximum price. If your bid is the lowest accepted bid, and if you refuse to accept the award of the contract due to the change in what you quoted as a maximum or specified price, you will forfeit your proposal guaranty.

4. Bidder acknowledges receipt of the following Addenda:

Acknowledge any addenda which have been issued by listing their number at date of issue below. If multiple addenda have been issued use the (+) to add additional fields. If an addendum has not been issued enter "N/A".

Addenda acknowledgement *

1 - 1/22/24 and 2 - 1/24/24

Signature *

Brian Volk

Date *

2/1/24

Title *

Brian Volk

Contractor: *

Veit & Company, Inc.

Address *

14000 Veit Pl, Rogers, MN 55374-9583

Phone Number *

(763) 428-6749

Schedule of Items

$1,199,042.50

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
1100001	Mobilization, Max $60,000	LSUM	1.0000	$60,000.00	$60,000.00
2047021	_ Beach Nourishment	Cyd	13,100.0000	$20.25	$265,275.00
2047021	_ Dredging	Cyd	47,300.0000	$6.75	$319,275.00
2047021	_ Upland & Channel Material Placement, Dead River Mouth	Cyd	28,100.0000	$8.00	$224,800.00
2047021	_ Upland Material Placement, Cliffs Dow Site	Cyd	500.0000	$20.25	$10,125.00
2047021	_ Upland Material Placement, Lakeshore Boulevard/ Wright Street	Cyd	6,100.0000	$20.25	$123,525.00
2080016	Erosion Control, Gravel Access Approach	Ea	3.0000	$4,000.00	$12,000.00
2080036	Erosion Control, Silt Fence	Ft	2,700.0000	$5.00	$13,500.00
2080042	Erosion Control, Turbidity Curtain, Deep	Ft	3,000.0000	$35.00	$105,000.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.0000	$750.00	$7,500.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.0000	$400.00	$4,000.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	161.0000	$10.00	$1,610.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	161.0000	$25.00	$4,025.00
8127051	_ Temporary Access Road	LSUM	1.0000	$16,960.00	$16,960.00
8160041	Seeding, Mixture TSM	Lb	480.0000	$15.00	$7,200.00
8167012	_ Dune Seed Mix and Great Lakes Barrens Seed Mix A	Acre	5.3000	$4,575.00	$24,247.50
					Total: $1,199,042.50

Bid Surety Upload

Name	Omission Terms	Submitted File
Bid Surety	I have submitted cash as my bid surety.	Bid Bond.pdf
1 Required Document		

Name	Omission Terms	Submitted File
Upload a copy of your paper bid bond or cashier's check.		
1 Required Document		

General Info

Total:

$980,496.43

Number

BP24-03

Deadline

02/01/2024 10:00 AM EST

Vendor

K&M Industrial, LLC

Submitted

02/01/2024 09:36 AM EST

Signed by

Christine Szlamczynski
Account Holder Christine Szlamczynski

Opened

02/01/2024 10:01 AM EST
By
kwessels@marquettemi.gov

Description

The work under this contract consists of dredging sand material from Lake Superior near the mouth of the Dead River. The dredged material will be used to reroute the existing river channel, for beach nourishment between Pine Street and Fair Avenue, with the remainder being placed either within the Cliffs Dow Site, or an area southeast of the intersection of Lakeshore Boulevard and Wright Street.

Allows zero unit prices and labor

No

Allows negative unit prices and labor

No

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Addendum #1

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Drawing File for Dredging Area

MQ13-504 BASE SOUTH.dwg (2.68 MB)
Drawing File for Beach Nourishment Area

Addendum #2.pdf (132 KB)
Addendum #2

Bidder Signature Page

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3. If the proposal establishes a maximum price for any of the following work items, and if you bid a price higher than that maximum price, your bid will be considered to have quoted the maximum price and your bid total will be adjusted to reflect that maximum price. If your bid is the lowest accepted bid, and if you refuse to accept the award of the contract due to the change in what you quoted as a maximum or specified price, you will forfeit your proposal guaranty.

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Addenda acknowledgement *

#1

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Addenda acknowledgement *

#2

Signature *

Christine Szlamczynski

Date *

02/01/2024

Title *

Contracts Manager

Contractor: *

K&M Industrial, LLC

Address *

80 Delta Ave, Gladstone, MI 49837-1904

Phone Number *

(906) 420-8770

Schedule of Items

$980,496.43

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
1100001	Mobilization, Max $60,000	LSUM	1.0000	$20,000.00	$20,000.00
2047021	_ Beach Nourishment	Cyd	13,100.0000	$9.98	$130,738.00
2047021	_ Dredging	Cyd	47,300.0000	$10.19	$481,987.00
2047021	_ Upland & Channel Material Placement, Dead River Mouth	Cyd	28,100.0000	$4.78	$134,318.00
2047021	_ Upland Material Placement, Cliffs Dow Site	Cyd	500.0000	$9.52	$4,760.00
2047021	_ Upland Material Placement, Lakeshore Boulevard/ Wright Street	Cyd	6,100.0000	$8.67	$52,887.00
2080016	Erosion Control, Gravel Access Approach	Ea	3.0000	$733.33	$2,199.99
2080036	Erosion Control, Silt Fence	Ft	2,700.0000	$3.04	$8,208.00
2080042	Erosion Control, Turbidity Curtain, Deep	Ft	3,000.0000	$36.00	$108,000.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.0000	$360.00	$3,600.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.0000	$110.00	$1,100.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	161.0000	$43.16	$6,948.76
					Total: $980,496.43

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	161.0000	$13.66	$2,199.26
8127051	_ Temporary Access Road	LSUM	1.0000	$20,200.00	$20,200.00
8160041	Seeding, Mixture TSM	Lb	480.0000	$4.23	$2,030.40
8167012	_ Dune Seed Mix and Great Lakes Barrens Seed Mix A	Acre	5.3000	$249.06	$1,320.02
					Total: $980,496.43

Bid Surety Upload

Name	Omission Terms	Submitted File
Bid Surety Upload a copy of your paper bid bond or cashier's check.	I have submitted cash as my bid surety.	Bid Bond.pdf
1 Required Document		

General Info

Total:

$1,174,031.10

Number

BP24-03

Deadline

02/01/2024 10:00 AM EST

Vendor

MJO Contracting Inc.

Submitted

02/01/2024 07:12 AM EST

Signed by

Kyle Oja **Account Holder**
Kyle Oja

Opened

02/01/2024 10:01 AM EST
By
kwessels@marquettemi.gov

Description

The work under this contract consists of dredging sand material from Lake Superior near the mouth of the Dead River. The dredged material will be used to reroute the existing river channel, for beach nourishment between Pine Street and Fair Avenue, with the remainder being placed either within the Cliffs Dow Site, or an area southeast of the intersection of Lakeshore Boulevard and Wright Street.

Allows zero unit prices and labor

No

Allows negative unit prices and labor

No

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Addendum #1

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Drawing File for Dredging Area

MQ13-504 BASE SOUTH.dwg (2.68 MB)
Drawing File for Beach Nourishment Area

Addendum #2.pdf (132 KB)
Addendum #2

Bidder Signature Page

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Bidders, Proposal, General Requirements, Agreement, Forms of Bonds, and Plans and Specifications as prepared by the Engineer, and understands all of the same; that he or his representative has made personal investigation at the site and has informed himself fully with regard to conditions to be met in executing this Contract, and the undersigned agrees to furnish all labor, materials, power, transportation and equipment necessary for the construction of the Project.

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Addenda acknowledgement *

#1 January 22, 2024

Acknowledge any addenda which have been issued by listing their number at date of issue below. If multiple addenda have been issued use the (+) to add additional fields. If an addendum has not been issued enter "N/A". 1

Addenda acknowledgement *

#2 January 24, 2024

Signature *

Kyle T. Oja

Date *

January 29, 2024

Title *

President

Contractor: *

MJO Contracting Inc.

Address *

54560 State Highway M203, Hancock, MI 49930-9632

Phone Number *

(906) 482-8965

Schedule of Items

$1,174,031.10

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
1100001	Mobilization, Max $60,000	LSUM	1.0000	$59,892.00	$59,892.00
2047021	_ Beach Nourishment	Cyd	13,100.0000	$7.44	$97,464.00
2047021	_ Dredging	Cyd	47,300.0000	$11.41	$539,693.00
2047021	_ Upland & Channel Material Placement, Dead River Mouth	Cyd	28,100.0000	$4.11	$115,491.00
2047021	_ Upland Material Placement, Cliffs Dow Site	Cyd	500.0000	$14.20	$7,100.00
2047021	_ Upland Material Placement, Lakeshore Boulevard/ Wright Street	Cyd	6,100.0000	$8.09	$49,349.00
2080016	Erosion Control, Gravel Access Approach	Ea	3.0000	$9,000.00	$27,000.00
2080036	Erosion Control, Silt Fence	Ft	2,700.0000	$3.16	$8,532.00
2080042	Erosion Control, Turbidity Curtain, Deep	Ft	3,000.0000	$44.81	$134,430.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.0000	$212.75	$2,127.50
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.0000	$11.50	$115.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	161.0000	$5.75	$925.75
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	161.0000	$1.15	$185.15
8127051	_ Temporary Access Road	LSUM	1.0000	$110,600.00	$110,600.00
8160041	Seeding, Mixture TSM	Lb	480.0000	$7.19	$3,451.20
8167012	_ Dune Seed Mix and Great Lakes Barrens Seed Mix A	Acre	5.3000	$3,335.00	$17,675.50
					Total: $1,174,031.10

Bid Surety Upload

Name	Omission Terms	Submitted File
Bid Surety Upload a copy of your paper bid bond or cashier's check.	I have submitted cash as my bid surety.	Bid Bond - MJO Mqt Dredging.pdf
1 Required Document		

General Info

Total:

$1,190,950.00

Number

BP24-03

Deadline

02/01/2024 10:00 AM EST

Vendor

MAE

Submitted

01/31/2024 03:57 PM EST

Signed by

Matthew Brink
Account Holder matt Brink

Opened

02/01/2024 10:01 AM EST
By
kwessels@marquettemi.gov

Description

The work under this contract consists of dredging sand material from Lake Superior near the mouth of the Dead River. The dredged material will be used to reroute the existing river channel, for beach nourishment between Pine Street and Fair Avenue, with the remainder being placed either within the Cliffs Dow Site, or an area southeast of the intersection of Lakeshore Boulevard and Wright Street.

Allows zero unit prices and labor

No

Allows negative unit prices and labor

No

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Addendum #1

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Drawing File for Dredging Area

MQ13-504 BASE SOUTH.dwg (2.68 MB)
Drawing File for Beach Nourishment Area

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Addendum #2

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Addenda acknowledgement *

#1

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Addenda acknowledgement *

#2

Signature *

Matthew Brink

Date *

1-31-24

Title *

COO

Contractor: *

Midwest Amphibious Equipment LLC

Address *

1111 NW 4th St, PO Box 67, Grand Rapids, MN 55744

Phone Number *

(218) 232-2174

Schedule of Items

$1,190,950.00

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
1100001	Mobilization, Max $60,000	LSUM	1.0000	$60,000.00	$60,000.00
2047021	_ Beach Nourishment	Cyd	13,100.0000	$20.00	$262,000.00
2047021	_ Dredging	Cyd	47,300.0000	$10.00	$473,000.00
2047021	_ Upland & Channel Material Placement, Dead River Mouth	Cyd	28,100.0000	$5.40	$151,740.00
2047021	_ Upland Material Placement, Cliffs Dow Site	Cyd	500.0000	$16.00	$8,000.00
2047021	_ Upland Material Placement, Lakeshore Boulevard/ Wright Street	Cyd	6,100.0000	$12.00	$73,200.00
2080016	Erosion Control, Gravel Access Approach	Ea	3.0000	$2,500.00	$7,500.00
2080036	Erosion Control, Silt Fence	Ft	2,700.0000	$5.00	$13,500.00
2080042	Erosion Control, Turbidity Curtain, Deep	Ft	3,000.0000	$32.00	$96,000.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.0000	$1,000.00	$10,000.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.0000	$1,000.00	$10,000.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	161.0000	$20.00	$3,220.00
					Total: $1,190,950.00

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	161.0000	$20.00	$3,220.00
8127051	_ Temporary Access Road	LSUM	1.0000	$15,000.00	$15,000.00
8160041	Seeding, Mixture TSM	Lb	480.0000	$4.00	$1,920.00
8167012	_ Dune Seed Mix and Great Lakes Barrens Seed Mix A	Acre	5.3000	$500.00	$2,650.00
					Total: $1,190,950.00

Bid Surety Upload

Name	Omission Terms	Submitted File
Bid Surety Upload a copy of your paper bid bond or cashier's check.	I have submitted cash as my bid surety.	Bid Bond Marquette.pdf
1 Required Document		

General Info

Total:

$1,009,026.64

Number

BP24-03

Deadline

02/01/2024 10:00 AM EST

Vendor

Smith Construction, Inc

Submitted

02/01/2024 09:52 AM EST

Signed by

John Daavettila
Account Holder John Daavettila

Opened

02/01/2024 10:01 AM EST
By
kwessels@marquettemi.gov

Description

The work under this contract consists of dredging sand material from Lake Superior near the mouth of the Dead River. The dredged material will be used to reroute the existing river channel, for beach nourishment between Pine Street and Fair Avenue, with the remainder being placed either within the Cliffs Dow Site, or an area southeast of the intersection of Lakeshore Boulevard and Wright Street.

Allows zero unit prices and labor

No

Allows negative unit prices and labor

No

Attachment List

MQ13-504 Bid Set.pdf (29.2 MB)
Project Plans

MQ13-504 Final Specifications.pdf (42.7 MB)
Project Specifications

Addendum #1.pdf (274 KB)
Addendum #1

MQ13-504 BASE NORTH.dwg (36.6 MB)
Drawing File for Dredging Area

MQ13-504 BASE SOUTH.dwg (2.68 MB)
Drawing File for Beach Nourishment Area

Addendum #2.pdf (132 KB)
Addendum #2

Bidder Signature Page

1. In compliance with the City's Invitation to Bid, Bidder hereby proposes to perform all work in accordance with the Plans and Specifications at the unit prices, as submitted herein, for the several parts of this contract.

2. The undersigned, as bidder, hereby declares the Proposal is made in good faith, without fraud or collusion with any person or

persons bidding on the same contract, that he has read and examined the Advertisement, Invitation to Bid, Information for Bidders, Proposal, General Requirements, Agreement, Forms of Bonds, and Plans and Specifications as prepared by the Engineer, and understands all of the same; that he or his representative has made personal investigation at the site and has informed himself fully with regard to conditions to be met in executing this Contract, and the undersigned agrees to furnish all labor, materials, power, transportation and equipment necessary for the construction of the Project.

3. If the proposal establishes a maximum price for any of the following work items, and if you bid a price higher than that maximum price, your bid will be considered to have quoted the maximum price and your bid total will be adjusted to reflect that maximum price. If your bid is the lowest accepted bid, and if you refuse to accept the award of the contract due to the change in what you quoted as a maximum or specified price, you will forfeit your proposal guaranty.

4. Bidder acknowledges receipt of the following Addenda:

Acknowledge any addenda which have been issued by listing their number at date of issue below. If multiple addenda have been issued use the (+) to add additional fields. If an addendum has not been issued enter "N/A".

Addenda acknowledgement *

Addenda #1 1/22/2024

Acknowledge any addenda which have been issued by listing their number at date of issue below. If multiple addenda have been issued use the (+) to add additional fields. If an addendum has not been issued enter "N/A". 1

Addenda acknowledgement *

Addenda #2 1/24/2024

Signature *

John Daavettila

Date *

2/1/2024

Title *

Estimator

Contractor: *

Smith Construction, Inc

Address *

4090 US Highway 41 W, Marquette, MI 49855-9491

Phone Number *

(906) 228-7285

Schedule of Items

$1,009,026.64

Pay Item Code	Description	Units	Quantity	Unit Price	Extension
1100001	Mobilization, Max $60,000	LSUM	1.0000	$60,000.00	$60,000.00
2047021	_ Beach Nourishment	Cyd	13,100.0000	$9.25	$121,175.00
2047021	_ Dredging	Cyd	47,300.0000	$10.50	$496,650.00
2047021	_ Upland & Channel Material Placement, Dead River Mouth	Cyd	28,100.0000	$3.00	$84,300.00
2047021	_ Upland Material Placement, Cliffs Dow Site	Cyd	500.0000	$8.00	$4,000.00
2047021	_ Upland Material Placement, Lakeshore Boulevard/ Wright Street	Cyd	6,100.0000	$6.00	$36,600.00
2080016	Erosion Control, Gravel Access Approach	Ea	3.0000	$1,000.00	$3,000.00
2080036	Erosion Control, Silt Fence	Ft	2,700.0000	$2.75	$7,425.00
2080042	Erosion Control, Turbidity Curtain, Deep	Ft	3,000.0000	$48.25	$144,750.00
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	Ea	10.0000	$75.00	$750.00
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	Ea	10.0000	$10.00	$100.00
8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	161.0000	$5.00	$805.00
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	161.0000	$1.00	$161.00
8127051	_ Temporary Access Road	LSUM	1.0000	$31,000.00	$31,000.00
8160041	Seeding, Mixture TSM	Lb	480.0000	$6.25	$3,000.00
8167012	_ Dune Seed Mix and Great Lakes Barrens Seed Mix A	Acre	5.3000	$2,888.80	$15,310.64
					Total: $1,009,026.64

Bid Surety Upload

Name	Omission Terms	Submitted File
Bid Surety Upload a copy of your paper bid bond or cashier's check.	I have submitted cash as my bid surety.	20240201094015.pdf

1 Required Document

THE CITY OF MARQUETTE

IN COOPERATION WITH THE U.S. DEPARTMENT OF TRANSPORTATION MARITIME ADMINISTRATION

PIDP 2021 - CITY OF MARQUETTE - PROTECTING CRITICAL INFRASTRUCTURE AND IMPROVING EFFICIENCY PROJECT

DREDGING AND BENEFICIAL REUSE

MQ13-504

STANDARDS:

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 VERSION, AND THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED OUT ON THE PLANS, THEY ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

R-96-E SOIL EROSION & SEDIMENTATION CONTROL MEASURES

TRAFFIC AND SAFETY STANDARD PLANS

* WZD-125-E TEMPORARY TRAFFIC CONTROL DEVICES
0-MT-ALL-NONFWY FULL SET OF NON-FREEWAY MAINTAIN. TRAFFIC TYP.

* SPECIAL DETAIL

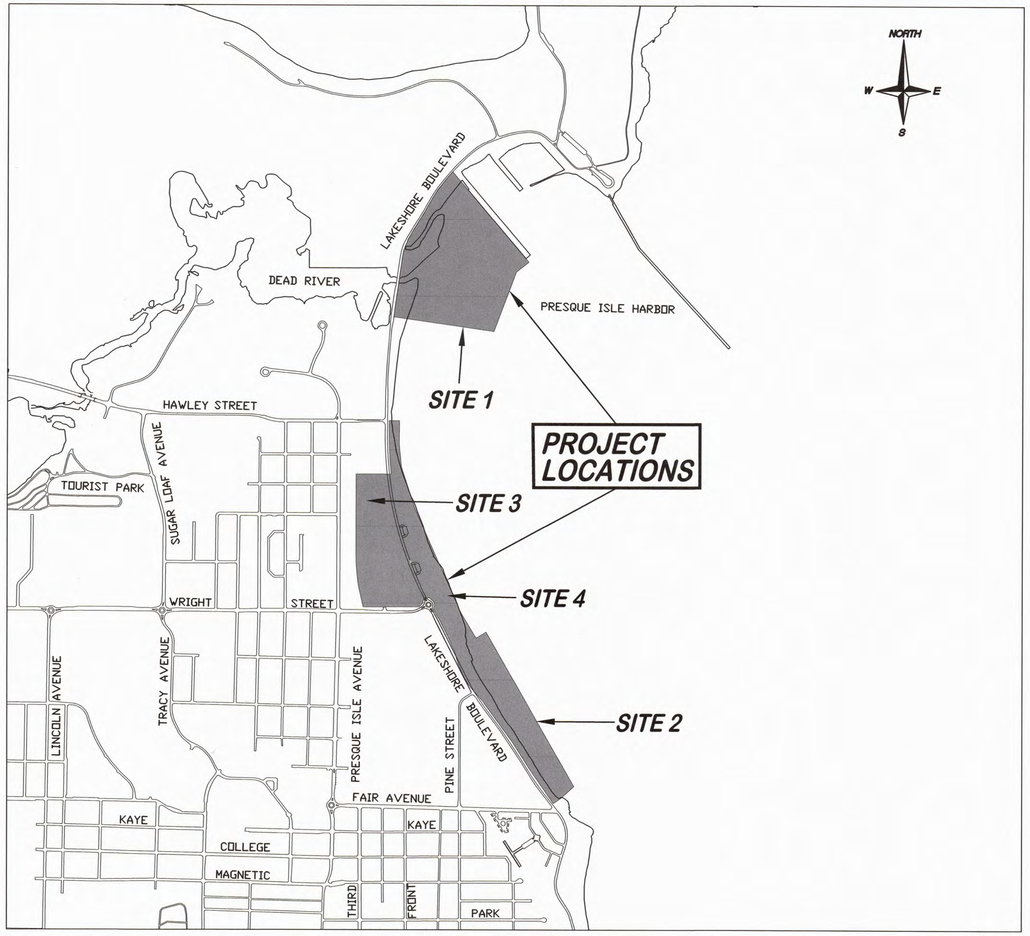
UTILITIES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL CALL MISS DIG AT 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED.

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

SANITARY SEWER MAIN AND LATERALS
WATERMAIN AND WATER SERVICES
STORM SEWER MAIN
GAS MAIN AND SERVICES
UNDERGROUND TELEPHONE, ELECTRICAL, CABLE TV, AND FIBER OPTICS
OVERHEAD TELEPHONE, ELECTRICAL, CABLE TV, AND FIBER OPTICS

LOCATION MAP



INDEX OF SHEETS

1	COVER SHEET
2	SITE 1 PLAN
3	SITE 1 CROSS SECTIONS
4	SITE 2 PLAN AND CROSS SECTIONS
5	SITE 3 PLAN AND CROSS SECTION
6	TRAFFIC CONTROL PLAN
7	SOIL EROSION AND SEDIMENTATION CONTROL AND SITE ACCESS PLAN
8	SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING GAS MAIN/SERVICE
- EXISTING TELECOMMUNICATION CABLE
- EXISTING ELECTRIC CABLE
- EXISTING LIGHT POLE
- EXISTING SANITARY/STORM SEWER MANHOLE
- EXISTING POWER POLE
- GUY ANCHOR
- EXISTING CATCH BASIN
- EXISTING TRAFFIC SIGN
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- SOIL BORING LOCATION AND NUMBER
- EXISTING WATER SHUT OFF
- EXISTING CLEAN OUT
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED STORM SEWER
- RIGHT OF WAY
- PROPERTY LINE, APPROXIMATE
- EXISTING CABLE TV CABLE
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED 6" SIDEWALK
- PROPOSED 4" SIDEWALK
- PROPOSED ADA RAMP (6")
- PROPOSED 4" STAMPED CONCRETE
- PROPOSED DETECTABLE SURFACE
- HMA, 13A OR LVSP

PUBLIC UTILITIES

MARQUETTE BOARD OF LIGHT AND POWER
2200 WRIGHT STREET
MARQUETTE, MICHIGAN 49855
PH. (906) 228-0300

SPECTRUM MID-AMERICA, LLC
359 US-41 EAST
NEGAUNEE, MICHIGAN 49866
PH. (906) 228-2900

MARQUETTE WATER AND SEWER DEPARTMENT
1100 WRIGHT STREET
MARQUETTE, MICHIGAN 49855
PH. (906) 228-0444

AT&T
3255 US-41 WEST
MARQUETTE, MICHIGAN 49855
PH. (906) 221-2121

SEMCO ENERGY
34 US-41 EAST
NEGAUNEE, MICHIGAN 49866
PH. (906) 475-9901

PENINSULA FIBER NETWORK
1901 WEST RIDGE STREET #2
MARQUETTE, MICHIGAN 49855
PH. (906) 226-7102

CONTRACT FOR:
PIDP - CITY OF MARQUETTE - PROTECTING CRITICAL INFRASTRUCTURE AND IMPROVING EFFICIENCY PROJECT

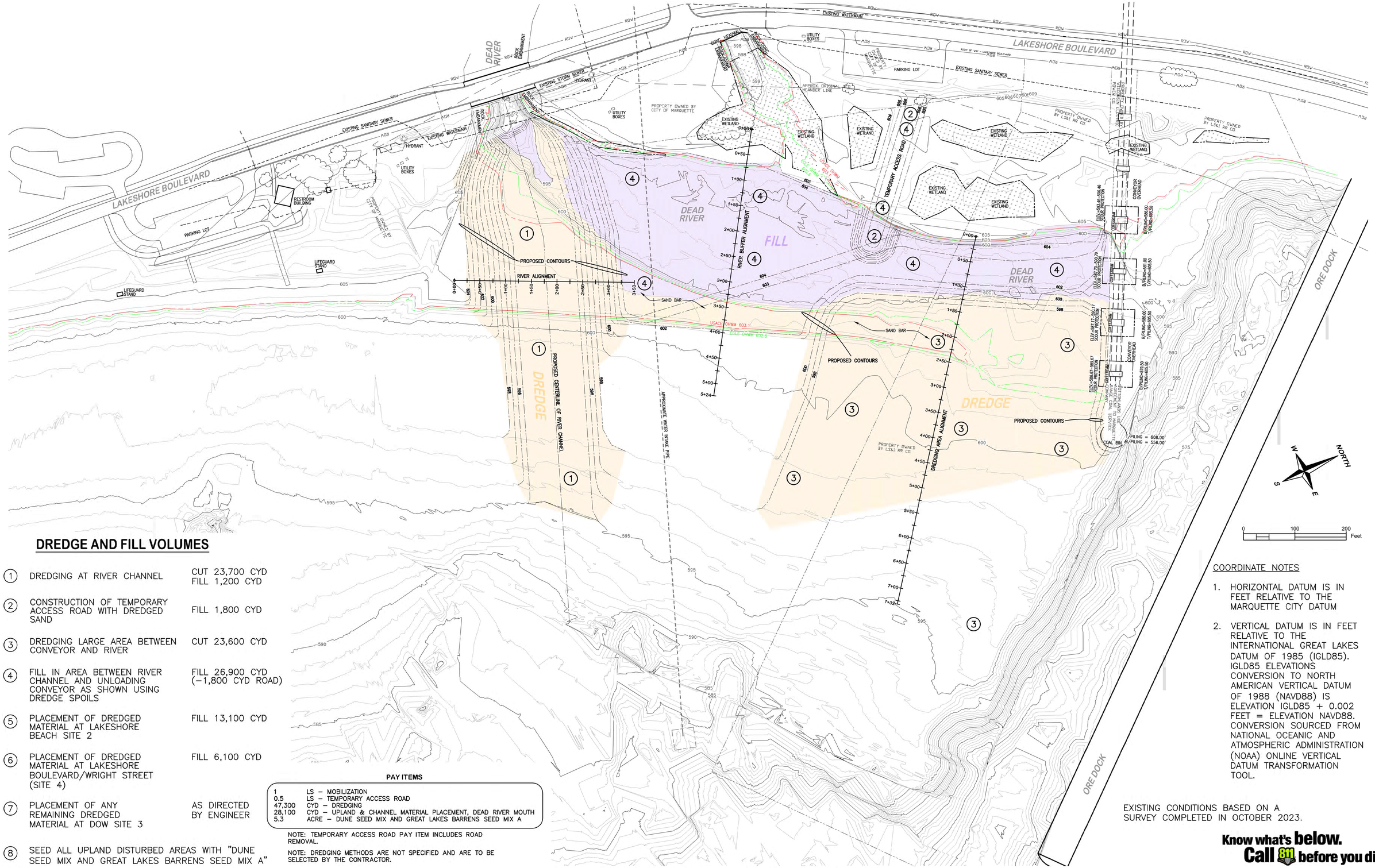
MUNICIPAL APPROVAL:
Karen Kovacs 12/19/2023
KAREN KOVACS, CITY MANAGER DATE

PREPARED UNDER THE SUPERVISION OF:
Mikael Kilpela 12/19/23
MIKAEL H. KILPELA, CITY ENGINEER DATE
P.E. NO. 6201056591

STATE OF MICHIGAN
Mikael Henrik Kilpela
License No. 6201056591
LICENSED PROFESSIONAL ENGINEER

CITY OF MARQUETTE
CITY ENGINEER'S OFFICE
1100 WRIGHT STREET
MARQUETTE, MICHIGAN 49855
PH. (906) 228-0440

PROJECT NO. MQ13-504



DREDGE AND FILL VOLUMES

(1)	DREDGING AT RIVER CHANNEL	CUT 23,700 CYD FILL 1,200 CYD
(2)	CONSTRUCTION OF TEMPORARY ACCESS ROAD WITH DREDGED SAND	FILL 1,800 CYD
(3)	DREDGING LARGE AREA BETWEEN CONVEYOR AND RIVER	CUT 23,600 CYD
(4)	FILL IN AREA BETWEEN RIVER CHANNEL AND UNLOADING CONVEYOR AS SHOWN USING DREDGE SPOILS	FILL 26,900 CYD (–1,800 CYD ROAD)
(5)	PLACEMENT OF DREDGED MATERIAL AT LAKESHORE BEACH SITE 2	FILL 13,100 CYD
(6)	PLACEMENT OF DREDGED MATERIAL AT LAKESHORE BOULEVARD/WRIGHT STREET (SITE 4)	FILL 6,100 CYD
(7)	PLACEMENT OF ANY REMAINING DREDGED MATERIAL AT DOW SITE 3	AS DIRECTED BY ENGINEER
(8)	SEED ALL UPLAND DISTURBED AREAS WITH "DUNE SEED MIX AND GREAT LAKES BARRENS SEED MIX A"	

PAY ITEMS

1	LS – MOBILIZATION
0.5	LS – TEMPORARY ACCESS ROAD
47,300	CYD – DREDGING
28,100	CYD – UPLAND & CHANNEL MATERIAL PLACEMENT, DEAD RIVER MOUTH
5.3	ACRE – DUNE SEED MIX AND GREAT LAKES BARRENS SEED MIX A

NOTE: TEMPORARY ACCESS ROAD PAY ITEM INCLUDES ROAD REMOVAL.

NOTE: DREDGING METHODS ARE NOT SPECIFIED AND ARE TO BE SELECTED BY THE CONTRACTOR.

COORDINATE NOTES

1. HORIZONTAL DATUM IS IN FEET RELATIVE TO THE MARQUETTE CITY DATUM
2. VERTICAL DATUM IS IN FEET RELATIVE TO THE INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85). IGLD85 ELEVATIONS CONVERSION TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) IS ELEVATION IGLD85 + 0.002 FEET = ELEVATION NAVD88. CONVERSION SOURCED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) ONLINE VERTICAL DATUM TRANSFORMATION TOOL.

EXISTING CONDITIONS BASED ON A SURVEY COMPLETED IN OCTOBER 2023.

Know what's below. Call 811 before you dig.

J:\PROJECTS\MQ13-504 DEAD RIVER MOUTH DREDGE\DESIGN AND DRAFTING\PROJECT DRAWINGS\MQ13-504 BASE NORTH.DWG

DEAD RIVER MOUTH DREDGE

CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
1100 WRIGHT STREET, MARQUETTE, MI 49855
PHONE (906)228-0440

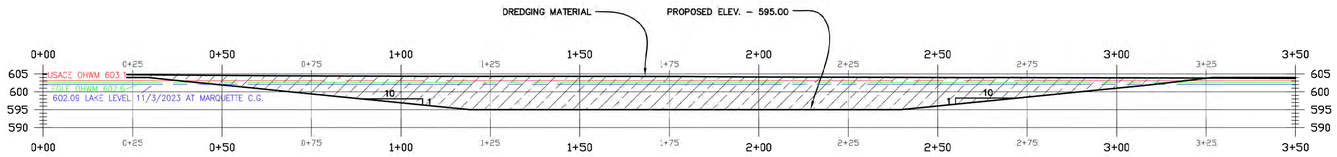
REVISIONS:	
PRELIMINARY	03-25-22
PERMIT REVIEW	11-28-22
PERMITTING	01-16-23
PERMITTING REVISION	03-27-23
UPDATED SURVEY	11-06-23

DESIGN BY: M. KILPELA P.E., CITY ENGINEER
DRAWN BY: D. SALMON
DATE: MARCH 27, 2023
FILE NAME: MQ13-504 BASE NORTH.dwg

HOR. SCALE: 1" = 80'
VERT. SCALE: N.A.

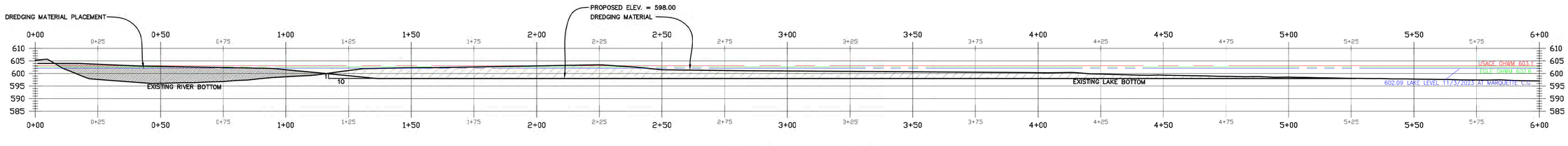
DEAD RIVER MOUTH DREDGING PROJECT
SITE 1

PROJECT MQ13-504
SHEET 2 OF 8



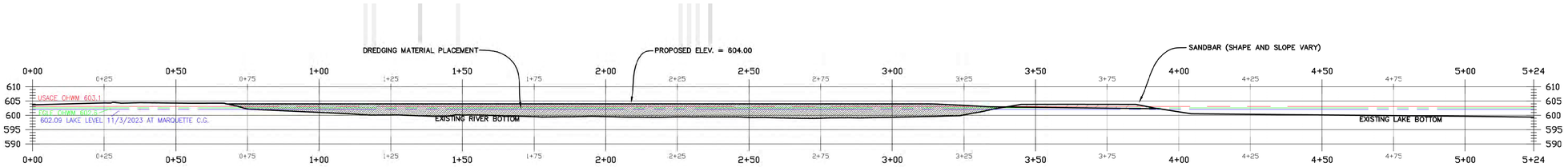
RIVER ALIGNMENT PROFILE

SCALE: 1" = 20'



DREDGING AREA ALIGNMENT PROFILE

SCALE: 1" = 20'



RIVER BUFFER ALIGNMENT PROFILE

SCALE: 1" = 20'

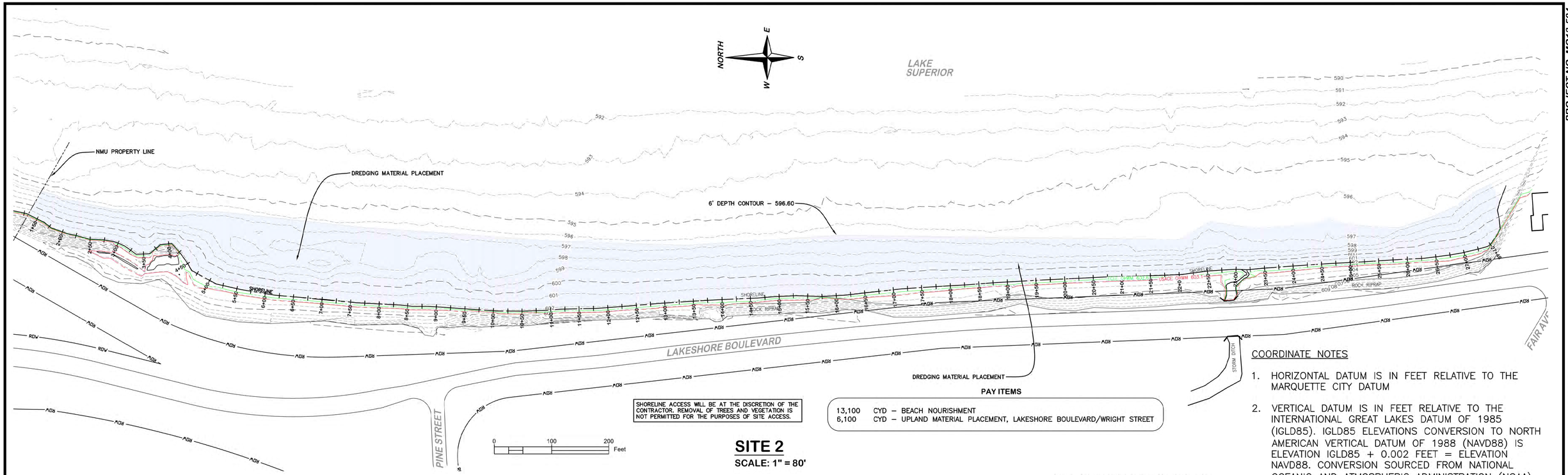
Know what's **below.**
Call 811 **before you dig.**

CITY ENGINEER'S OFFICE MARQUETTE, MICHIGAN 1100 WRIGHT STREET, MARQUETTE, MI 49855 PHONE (906)228-0440	REVISIONS:		DESIGN BY: M. KILPELA P.E., CITY ENGINEER DRAWN BY: D. SALMON DATE: APRIL 13, 2023 FILE NAME: MQ13-504 BASE NORTH.dwg	HOR. SCALE: 1" = 20' VERT. SCALE: 1" = 20'	DEAD RIVER MOUTH DREDGING PROJECT SITE 1 CROSS SECTIONS	PROJECT MQ13-504 SHEET 3 OF 8
	PRELIMINARY	03-25-22				
	PERMIT REVIEW	11-17-22				
	PERMITTING	01-16-23				
	PERMITTING REVISION	04-13-23				
	UPDATED SURVEY	11-06-23				

PROJECT NO. MQ13-504

J:\PROJECTS\MQ13-504 DEAD RIVER MOUTH DREDGE\DESIGN AND DRAFTING\PROJECT DRAWINGS\MQ13-504 BASE NORTH.DWG

DEAD RIVER MOUTH DREDGE



SITE 2

SCALE: 1" = 80'

PAY ITEMS

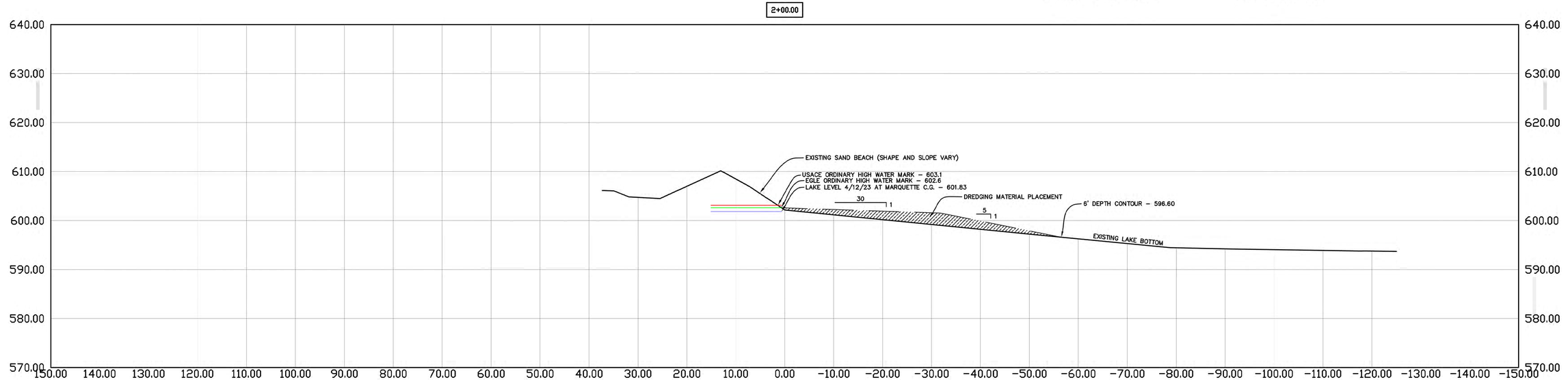
13,100	CYD	– BEACH NOURISHMENT
6,100	CYD	– UPLAND MATERIAL PLACEMENT, LAKESHORE BOULEVARD/WRIGHT STREET

COORDINATE NOTES

1. HORIZONTAL DATUM IS IN FEET RELATIVE TO THE MARQUETTE CITY DATUM
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DREDGING PLACEMENT

DREDGE FROM SITE 1 FILL 13,100 CYD



TYPICAL CROSS SECTION

SCALE: 1" = 10'

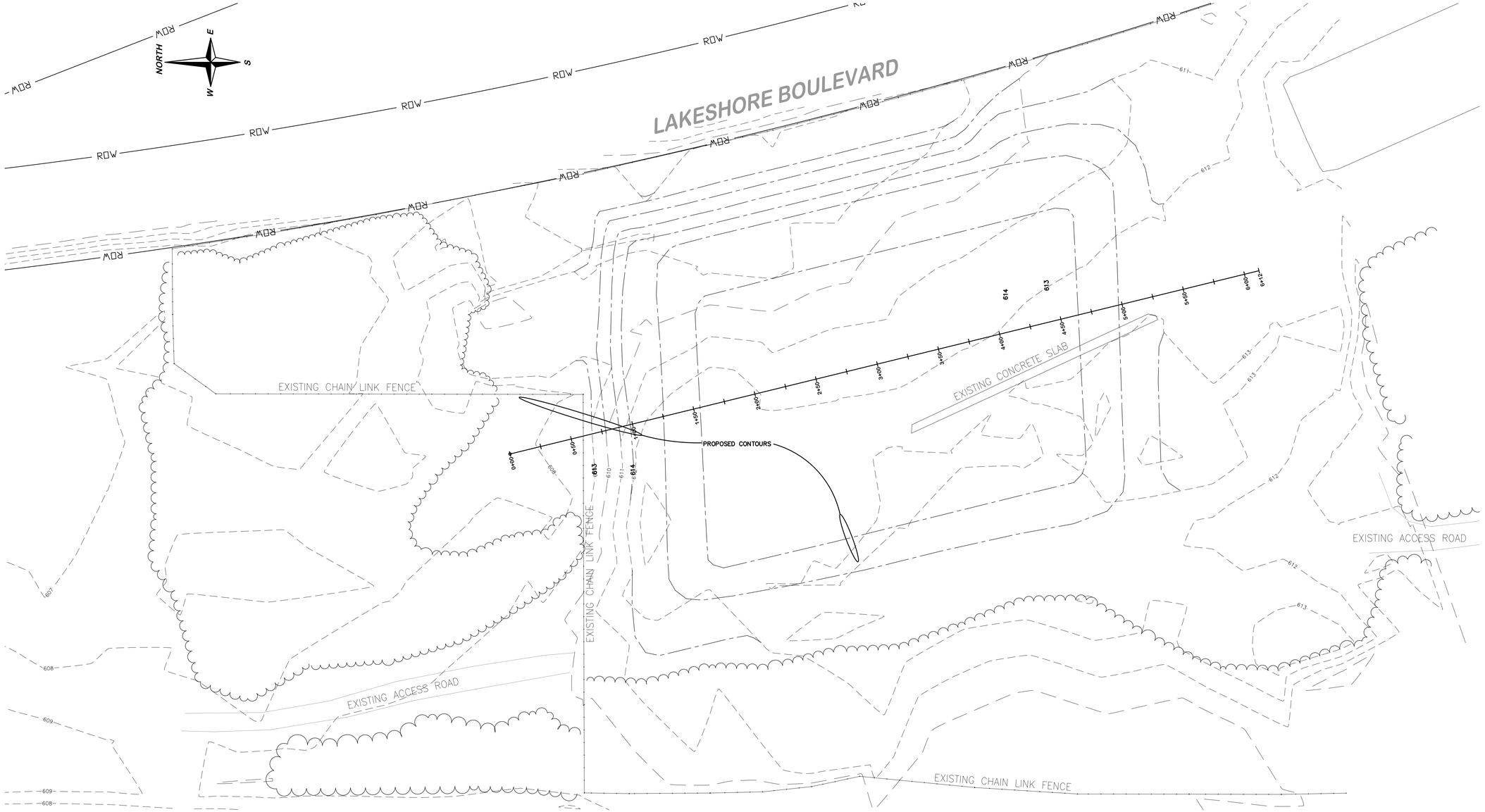
Know what's **below.** **Call** 811 **before you dig.**

CITY ENGINEER'S OFFICE MARQUETTE, MICHIGAN 1100 WRIGHT STREET, MARQUETTE, MI 49855 PHONE (906)228-0440	REVISIONS: PRELIMINARY 03-25-22 PERMIT REVIEW 11-17-22 PERMITTING 01-16-23 PERMITTING REVISION 04-13-23 UPDATED SURVEY 11-06-23	DESIGN BY: M. KILPELA P.E., CITY ENGINEER DRAWN BY: D. SALMON DATE: APRIL 13, 2023 FILE NAME: MQ13-504 BASE SOUTH.dwg	HOR. SCALE: N.A. VERT. SCALE: N.A.	DEAD RIVER MOUTH DREDGING PROJECT SITE 2 PLAN AND CROSS SECTIONS	PROJECT MQ13-504 SHEET 4 OF 8

PROJECT NO. MQ13-504

J:\PROJECTS\MQ13-504 DEAD RIVER MOUTH DREDGE\DESIGN AND DRAFTING\PROJECT DRAWINGS\MQ13-504 BASE SOUTH.DWG

DEAD RIVER MOUTH DREDGE



COORDINATE NOTES

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SITE 3

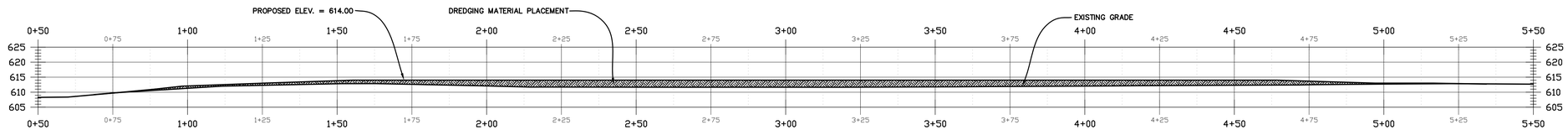
SCALE: 1" = 40'

0 100 200 Feet

PAY ITEMS

500 CYD* – UPLAND MATERIAL PLACEMENT, CLIFFS DOW SITE

*UNANTICIPATED



DREDGING PLACEMENT

SITE 3	FILL AS DIRECTED BY ENGINEER

SITE 3 PROFILE

SCALE: 1" = 20'

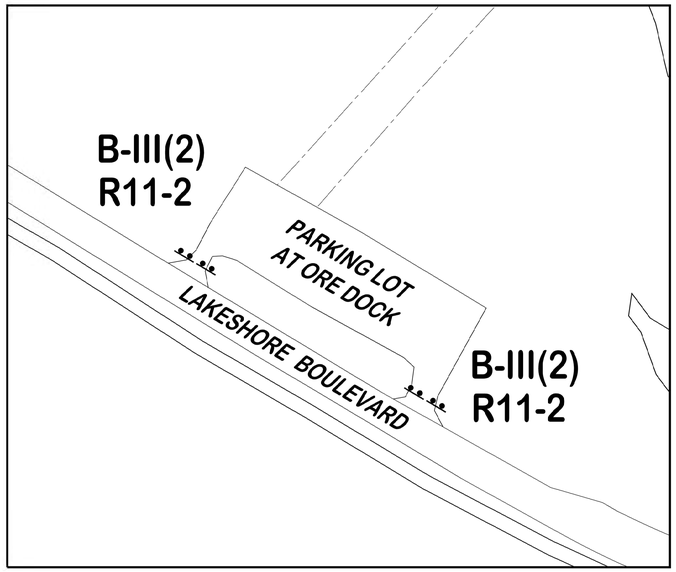
Know what's below. Call 811 before you dig.

CITY ENGINEER'S OFFICE MARQUETTE, MICHIGAN 1100 WRIGHT STREET, MARQUETTE, MI 49855 PHONE (906)228-0440	REVISIONS: PRELIMINARY 03-25-22 PERMIT REVIEW 11-17-22 PERMITTING 01-16-23 PERMITTING REVISION 03-27-23 UPDATED SURVEY 11-06-23	DESIGN BY: M. KILPELA P.E., CITY ENGINEER DRAWN BY: D. SALMON DATE: MARCH 27, 2023 FILE NAME: MQ13-504 BASE SOUTH.dwg	HOR. SCALE: N.A. VERT. SCALE: N.A.	DEAD RIVER MOUTH DREDGING PROJECT SITE 3	PROJECT MQ13-504 SHEET 5 OF 8

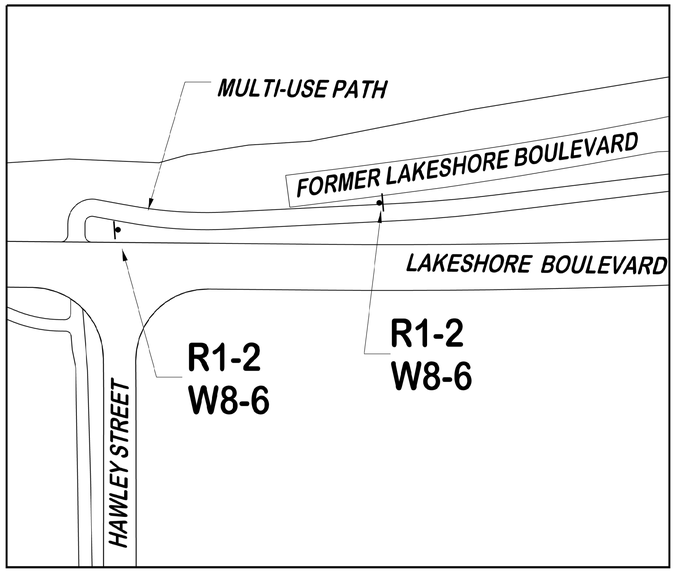
PROJECT NO. MQ13-504

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DEAD RIVER MOUTH DREDGE



DREDGING AREA
PARKING LOT CLOSURE
SCALE 1" = 50'



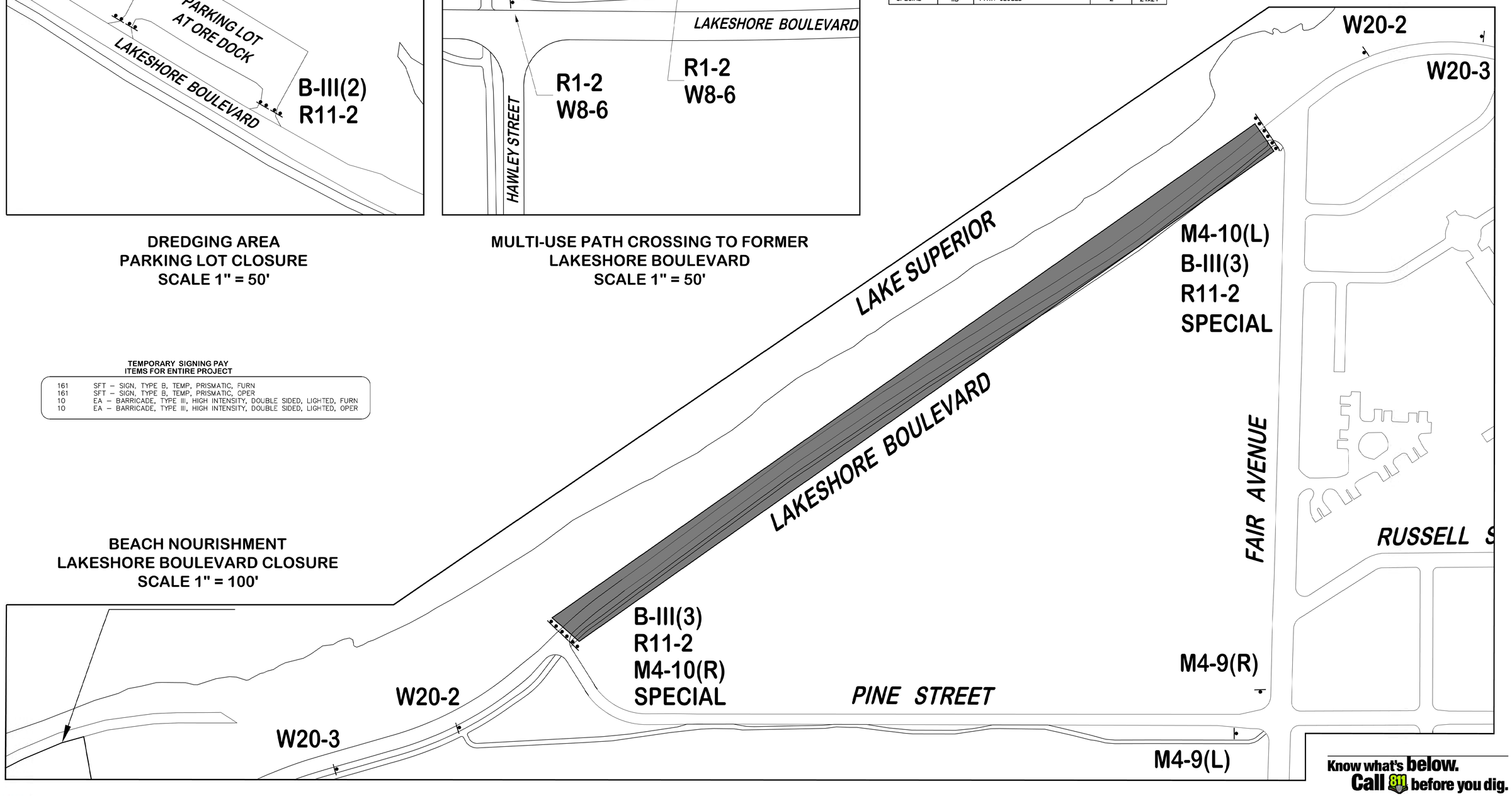
MULTI-USE PATH CROSSING TO FORMER
LAKESHORE BOULEVARD
SCALE 1" = 50'

TEMPORARY SIGNING FOR ENTIRE PROJECT

SIGN	TYPE	DESCRIPTION	MAX. NO. EACH	DIMENSIONS (INCHES)
B–III		BARRICADE, TYPE III, LIGHTED	10	
M4–9(L)	IIB	DETOUR (ARROW TO LEFT)	1	30x24
M4–9(R)	IIB	DETOUR (ARROW TO RIGHT)	1	30x24
M4–10(L)	IIB	DETOUR IN ARROW LEFT	1	48x18
M4–10(R)	IIB	DETOUR IN ARROW RIGHT	1	48x18
R11–2	IIB	ROAD CLOSED	4	48x30
W20–2	IIB	DETOUR AHEAD	2	48x48
W20–3	IIB	STREET CLOSED AHEAD	2	48x48
R1–2	IIB	YIELD	2	36x36x36
W8–6	IIB	TRUCK CROSSING	2	36x36
SPECIAL	IIB	PATH CLOSED	2	24x24

TEMPORARY SIGNING PAY ITEMS FOR ENTIRE PROJECT

161	SFT – SIGN, TYPE B, TEMP, PRISMATIC, FURN
161	SFT – SIGN, TYPE B, TEMP, PRISMATIC, OPER
10	EA – BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN
10	EA – BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER



BEACH NOURISHMENT
LAKESHORE BOULEVARD CLOSURE
SCALE 1" = 100'

Know what's below.
Call 811 before you dig.

CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
1100 WRIGHT STREET, MARQUETTE, MI 49855
PHONE (906)228-0440

REVISIONS:

INTERNAL REVIEW	11-18-2022
PERMITTING	01-16-2023
-	-
-	-

DESIGN BY: K. WESSELS
DRAWN BY: K. WESSELS
DATE: JANUARY 16, 2023
FILE NAME: MQ13-504 Traffic - SESC - Access.dwg

HOR. SCALE: VARIES
VERT. SCALE: N.A.

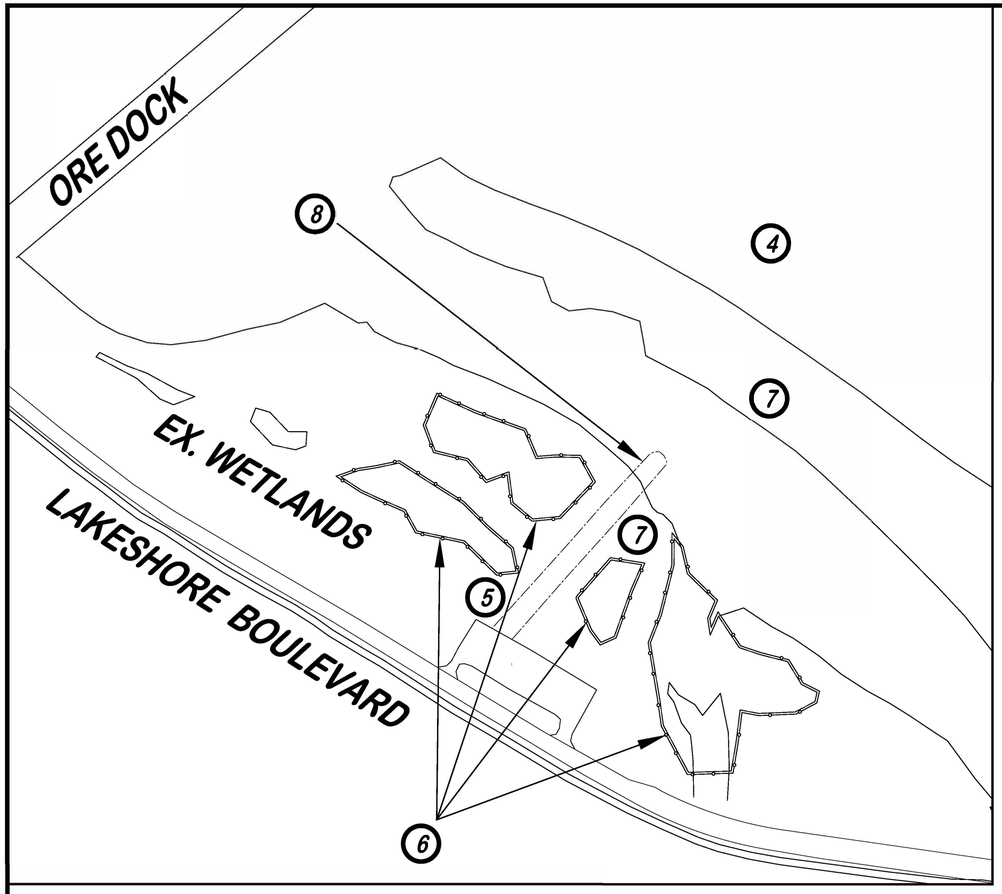
DEAD RIVER MOUTH DREDGING PROJECT
MARQUETTE UPPER HARBOR
TRAFFIC CONTROL PLAN

PROJECT MQ13-504
SHEET 6 OF 8

PROJECT NO. MQ13-504

J:\PROJECTS\MQ13-504 DEAD RIVER MOUTH DREDGE\DESIGN AND DRAFTING\PROJECT DRAWINGS\MQ13-504 TRAFFIC - SESC - SITE.DWG

DEAD RIVER MOUTH DREDGING PROJECT



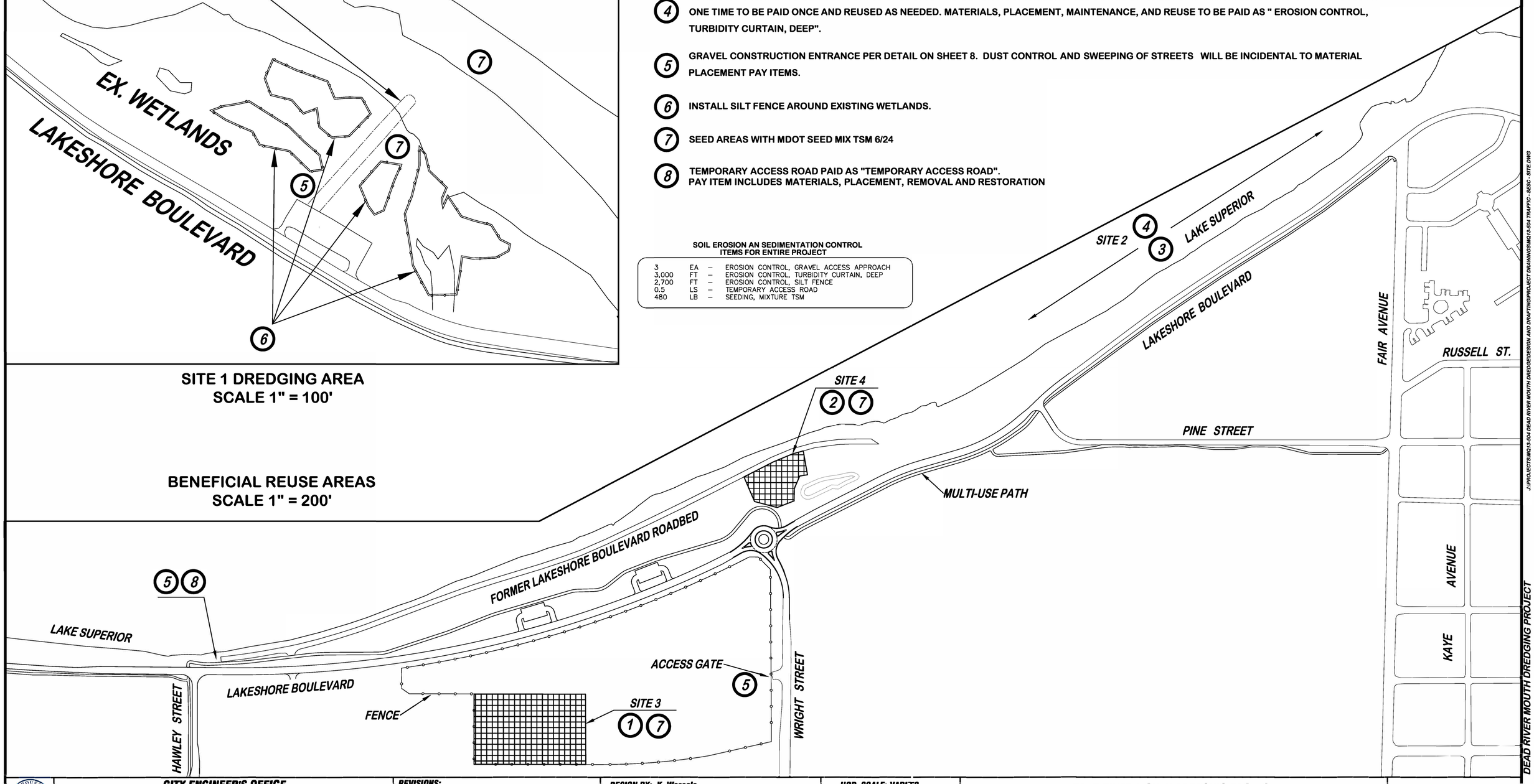
SITE 1 DREDGING AREA
SCALE 1" = 100'

1. CLIFFS DOW SITE DREDGED MATERIAL UPLAND PLACEMENT SITE TO BE ACCESS VIA GATE ON WRIGHT STREET. PLACEMENT TO BE PER SHEET 5. TRANSPORT FROM FROM DREDGING LOCATION, AND PLACEMENT TO BE PAID AS "UPLAND MATERIAL PLACEMENT, CLIFFS DOW SITE"
2. LAKESHORE BOULEVARD DREDGED MATERIAL PLACEMENT SITE TO BE ACCESS VIA FORMER LAKESHORE BOULEVARD AT HAWLEY STREET. EXACT SAND PLACEMENT TO BE DIRECTED BY ENGINEER. TRANSPORT FROM FROM DREDGING LOCATION, AND PLACEMENT TO BE PAID AS "UPLAND MATERIAL PLACEMENT, LAKESHORE BOULEVARD/WRIGHT STREET". MAX PLACEMENT HEIGHT OF 7 FT. FINAL UPLAND PLACEMENT BY OTHERS.
3. BEACH NOURISHMENT SITE TO BE ACCESSED VIA LAKESHORE BOULEVARD. TRANSPORT FROM DREDGING SITE AND PLACEMENT PER THE PLAN TO BE PAID AS "BEACH NOURISHMENT"
4. TURBIDITY CURTAIN TO BE USED DURING DREDGING AND BEACH NOURISHMENT. SEE DETAIL ON SHEET 8. MAXIMUM LENGTH OF CURTAIN USED AT ONE TIME TO BE PAID ONCE AND REUSED AS NEEDED. MATERIALS, PLACEMENT, MAINTENANCE, AND REUSE TO BE PAID AS " EROSION CONTROL, TURBIDITY CURTAIN, DEEP".
5. GRAVEL CONSTRUCTION ENTRANCE PER DETAIL ON SHEET 8. DUST CONTROL AND SWEEPING OF STREETS WILL BE INCIDENTAL TO MATERIAL PLACEMENT PAY ITEMS.
6. INSTALL SILT FENCE AROUND EXISTING WETLANDS.
7. SEED AREAS WITH MDOT SEED MIX TSM 6/24
8. TEMPORARY ACCESS ROAD PAID AS "TEMPORARY ACCESS ROAD". PAY ITEM INCLUDES MATERIALS, PLACEMENT, REMOVAL AND RESTORATION

SOIL EROSION AN SEDIMENTATION CONTROL ITEMS FOR ENTIRE PROJECT

3	EA	–	EROSION CONTROL, GRAVEL ACCESS APPROACH
3,000	FT	–	EROSION CONTROL, TURBIDITY CURTAIN, DEEP
2,700	FT	–	EROSION CONTROL, SILT FENCE
0.5	LS	–	TEMPORARY ACCESS ROAD
480	LB	–	SEEDING, MIXTURE TSM





BENEFICIAL REUSE AREAS
SCALE 1" = 200'

PROJECT NO. MQ13-504

J:\PROJECTS\MQ13-504 DEAD RIVER MOUTH DREDGEDESIGN AND DRAFTING\PROJECT DRAWINGS\MQ13-504 TRAFFIC - SESC - SITE.DWG

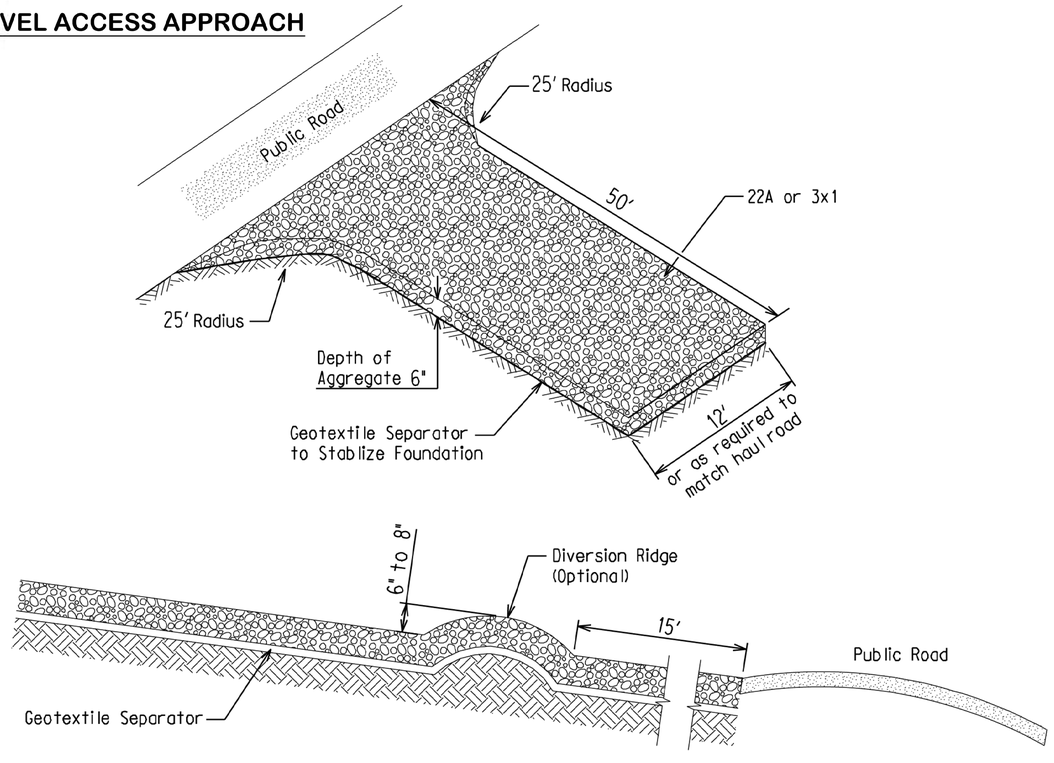
DEAD RIVER MOUTH DREDGING PROJECT

CITY ENGINEER'S OFFICE **MARQUETTE, MICHIGAN** 1100 WRIGHT STREET, MARQUETTE, MI 49855 PHONE (906)228-0440	**REVISIONS:** INTERNAL REVIEW 11-18-2022	DESIGN BY: K. Wessels DRAWN BY: K. Wessels DATE: DECEMBER 8, 2022 FILE NAME: MQ13-504 Traffic - SESC - Access.dwg	HOR. SCALE: VARIES VERT. SCALE: N.A.

DEAD RIVER MOUTH DREDGING PROJECT
MARQUETTE UPPER HARBOR
SOIL EROSION AND SEDIMENTATION CONTROL AND SITE ACCESS PLAN

PROJECT MQ13-504
SHEET 7 OF 8

GRAVEL ACCESS APPROACH



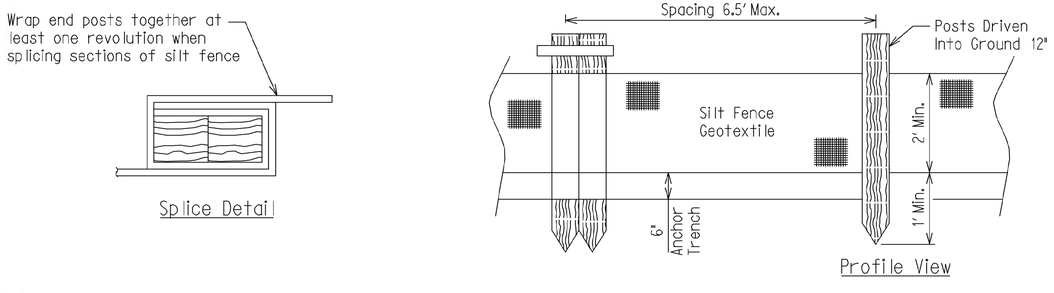
Use:
Providing a stable Gravel Access Approach, minimizes the tracking of loose materials from the construction site onto public roadways. Coarser aggregate is more effective in reducing tracking. Any materials tracked onto public roadways shall be removed as specified in the Standard Specifications for Construction, or as directed by the Engineer.

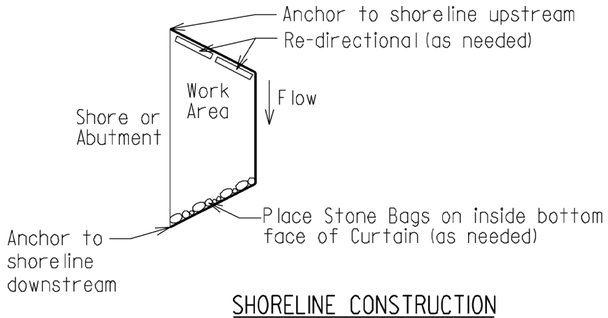
Installation and maintenance of Gravel Access Approach is effective in reducing sediment loading to inlet protection devices.

Installation and Maintenance:
The Gravel Access Approach should be located in accordance with the plans or as directed by the Engineer. All vegetation and other objectionable material shall be removed from the foundation area. Geotextile Separator must be placed beneath the aggregate to stabilize the foundation.

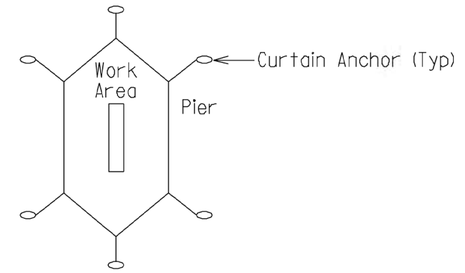
Replace or replenish aggregate if it is no longer preventing tracking.

SILT FENCE

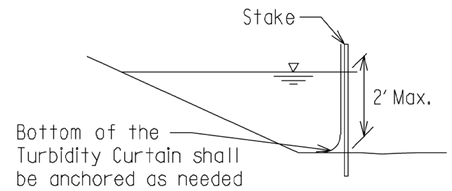




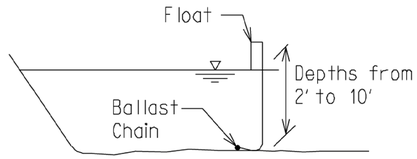
SHORELINE CONSTRUCTION

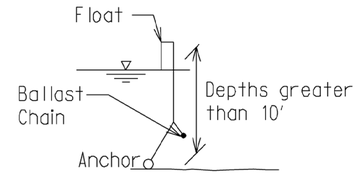


IN-STREAM CONSTRUCTION



TURBIDITY CURTAIN (SHALLOW)



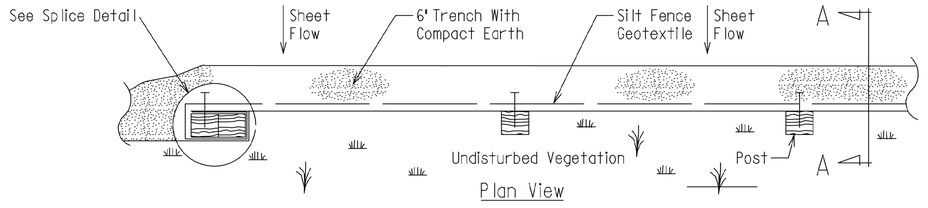


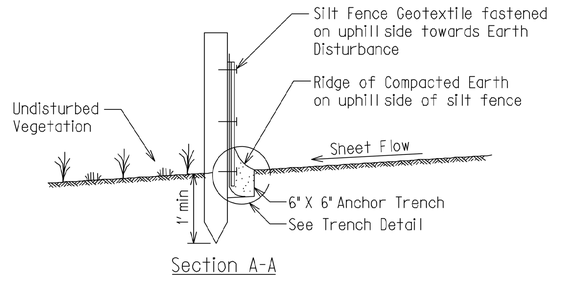
TURBIDITY CURTAIN (DEEP)

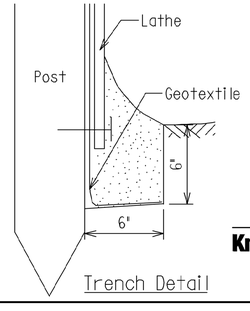
Use:
A Turbidity Curtain is used when slack water area is necessary to isolate construction activities from the watercourse.

The Turbidity Curtain system shall be designed to handle site specific drainage or flow patterns.

When water is less than 2 feet deep and has low flow, Turbidity Curtain (Shallow) may be used. Curtain shall be securely fastened to stakes. Water greater than 2 feet deep or where high flow exists requires the use of Turbidity Curtain (Deep).







TURBIDITY CURTAIN

Know what's below. Call 811 before you dig.

CITY ENGINEER'S OFFICE
MARQUETTE, MICHIGAN
1100 WRIGHT STREET, MARQUETTE, MI 49855
PHONE (906)228-0440

REVISIONS:	
INTERNAL REVIEW	11-18-2022
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.	.

DESIGN BY: K. WESSELS
DRAWN BY: K. WESSELS
DATE: DECEMBER 8, 2022
FILE NAME: MQ13-504 Traffic - SESC - Access.dwg

HOR. SCALE: N.A.
VERT. SCALE: N.A.

DEAD RIVER MOUTH DREDGING PROJECT
MARQUETTE UPPER HARBOR
SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

PROJECT MQ13-504
SHEET 8 OF 8

PROJECT NO. MQ13-504

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DEAD RIVER MOUTH DREDGING PROJECT

U.S. DEPARTMENT OF TRANSPORTATION
MARITIME ADMINISTRATION

GRANT AGREEMENT UNDER THE FISCAL YEAR 2021 PORT INFRASTRUCTURE DEVELOPMENT PROGRAM (PIDP) GRANTS

MARAD FY 2021 PIDP Grant No. 693JF72245018

70X1713D21 2024 1PM2245018 0000150002 41010 61006600 — $1,617,750

This agreement is between the United States Department of Transportation Maritime Administration ("**MARAD**") and the Marquette, City of[1] (the "**Recipient**").

This agreement reflects the selection of the Recipient to receive a PIDP Grant for the Protecting Critical Infrastructure and Improving Efficiency Project.

The parties therefore agree to the following:

ARTICLE 1
GENERAL TERMS AND CONDITIONS

1.1 General Terms and Conditions.

(a) In this agreement, "**General Terms and Conditions**" means the content of the document titled "General Terms and Conditions Under The Fiscal Year 2021 Port Infrastructure Development Program (PIDP) Grants," dated October 27, 2023, which is available at https://www.maritime.dot.gov/ports/port-infrastructure-development-program/fy-2021-pidp-general-terms-and-conditions-october-27. Articles 8–29 are in the General Terms and Conditions. The General Terms and Conditions are part of this agreement.

(b) The Recipient states that it has knowledge of the General Terms and Conditions.

(c) The Recipient acknowledges that the General Terms and Conditions impose obligations on the Recipient and that the Recipient's non-compliance with the General Terms and Conditions may result in remedial action, terminating of the PIDP Grant, disallowing costs incurred for the Project, requiring the Recipient to refund to MARAD the PIDP Grant, and reporting the non-compliance in the Federal-government-wide integrity and performance system.

[1] The Recipient is referred to here as "Marquette, City of" because that is how its name is listed as part of its unique entity identifier, as required by 2 C.F.R. 200.211(b)(1), but the rest of this agreement will refer to the Recipient by its legal name, the City of Marquette.

ARTICLE 2
APPLICATION, PROJECT, AND AWARD

2.1 Application.

Application Title: Protecting Critical Infrastructure and Improving Efficiency

Application Date: July 30, 2021

2.2 Award Amount.

PIDP Grant Amount: $1,617,750

2.3 Award Dates.

Budget Period End Date: July 22, 2027

Period of Performance End Date: July 21, 2030

2.4 Large Project or Small Project at a Small Port Designation.

Large-Small Project Designation: Small

2.5 Capital or Planning Designation.

Capital-Planning Designation: Capital

2.6 Federal Award Identification Number. MARAD identifies this award with the following federal award identification number:

693JF72245018

ARTICLE 3
SUMMARY PROJECT INFORMATION

3.1 Summary of Project's Statement of Work.

The Project will improve critical port infrastructure, dredge encroaching sediment to protect port infrastructure, and deposit dredge materials on shore to enhance coastal restoration and protect road infrastructure at the Port of Marquette.

3.2 Project's Estimated Schedule.

Milestone	Schedule Date
Planned City of Marquette Sponsored Dredging Start Date:	March 1, 2024
Planned City of Marquette Sponsored Dredging Substantial Completion Date:	September 20, 2026
Planned Cliffs Inc./ LS&I Sponsored Dredging Start Date:	March 1, 2024
Planned Cliffs Inc./ LS&I Sponsored Dredging Substantial Completion Date:	September 30, 2025

3.3 Project's Estimated Budget.

Eligible Project Costs	
PIDP Grant Amount:	$1,617,750
Local Funds:	$13,000
Other Funds:	$737,000
Total Eligible Project Cost:	$2,367,750

ARTICLE 4
CRITICAL MILESTONE DEADLINES

4.1 Critical Milestone Deadlines.

The Recipient acknowledges MARAD may terminate this award under Section 17.1(a) on some conditions related to the Project's estimated schedule, as listed in Section 3.2 and in the following table.

Milestone	Deadline Date
MARAD receives first reimbursement request	May 1, 2024

ARTICLE 5
PARTY INFORMATION

5.1 Recipient's Unique Entity Identifier.

Recipient's Unique Entity Identifier: NJTGBUGAVBF9

5.2 Recipient Contact(s).

Mikael Kilpela
City Engineer
City of Marquette
1100 Wright Street
Marquette, MI 49855
mkilpela@marquettemi.gov
(906) 225-8995

and

Kellen Wessels
Assistant City Engineer
City of Marquette
1100 Wright Street
Marquette, MI 49855
kwessels@marquettemi.gov
(906) 225-8990

and

Dennis Stachewicz
Director, Community Development
City of Marquette
1100 Wright Street
Marquette, MI 49855
dstachewicz@marquettemi.gov
(906) 225-8377

5.3 Recipient Key Personnel.

None. The parties have not identified any individuals as key personnel for this award.

5.4 MARAD Project Contact(s).

Kelly Mitchell-Carroll
Grants and Cooperative Agreements Officer
DOT – Maritime Administration
1200 New Jersey Ave, SE
Washington, DC 20590
MAR-380
W26-422
Mailstop 5
(202) 366-9714
k.mitchell-carroll@dot.gov

and

David Bohnet
Supervisory Grant Management Specialist
DOT – Maritime Administration
1200 New Jersey Ave, SE
Washington, DC 20590
MAR-510
W21-226
Mailstop 3
(202) 366-0586
david.bohnet@dot.gov

ARTICLE 6
MARAD ADMINISTRATIVE INFORMATION

6.1 Payment System.

MARAD Payment System: Delphi eInvoicing System

6.2 Office for Subaward and Contract Authorization.

MARAD Office for Subaward and Contract Authorization: None

ARTICLE 7
SPECIAL GRANT TERMS

7.1 Mitigation Measures.

(a) The Recipient shall complete the mitigation activities described in MARAD's Finding of No Significant Impact (FONSI) and accompanying Environmental Assessment (EA), dated September 18, 2023, including the terms and conditions contained in the required permits and authorizations for the Project.

(b) The Recipient shall complete the mitigation activities described in the Section 106 consultation correspondence with the Michigan State Historic Preservation Office (MI-SHPO), Ho-Chunk Nation, and Sokaogon Chippewa Community, dated March 6, 2023, December 15, 2022, and December 27, 2022. MI-SHPO and the Sokaogon Chippewa Community require that work be halted and they be contacted if any human remains or archaeological materials are encountered during construction activities. These remains and/or archaeological materials shall not be removed until appropriate consultations with MI-SHPO and the Sokaogon Chippewa Community are complete.

ATTACHMENT A
STATEMENT OF WORK

This Project will be broken down into two separate dredging components. Each component will be performed under two independent contracts, one initiated by the Recipient and the other by project partners, Cliffs Inc./ LS&I Railroad. Component 1 will be funded by the PIDP award and Cliffs Inc./ LS&I will fund Component 2 as a non-Federal match.

Component 1 – City of Marquette Sponsored Dredging

- Complete design.
- Dredge up to 54,100 cubic yards (CY) of material from the sediment plume at the outflow of the Dead River. The soils dredged from this location will be placed along the shoreline either at the mouth of the Dead River or to the south of the dredge area.
- Conduct coastal resiliency and shoreline stabilization projects with community partners.

Component 2 – Cliffs Inc./ LS&I Sponsored Dredging

- Dredge up to 22,900 CY of material from the boat loading and unloading areas on the south side of the ore dock. Soils located in the area of the ore dock have been found unsuitable for redistribution due to ore-pellet contamination and will be disposed of in a landside facility that is currently being used for dredge material disposal as part of annual maintenance dredging.

ATTACHMENT B
ESTIMATED PROJECT BUDGET

1. Supplementary Fund Source Table

The following table supplements the budget information in section 3.3.

	Eligible Costs		
	City of Marquette Sponsored Dredging	**Cliffs Inc./ LS&I Sponsored Dredging**	**Total**
PIDP Funds:	$1,617,750	$0	**$1,617,750**
Local Funds:	$13,000	$0	**$13,000**
Other Funds:	$0	$737,000	**$737,000**
Total:	$1,630,750	$737,000	**$2,367,750**

2. Cost Classification Table

Cost Classification	**PIDP Eligible Costs**
Administrative and legal expenses	$36,200
Architectural and engineering fees	$26,500
Other architectural and engineering fees	$75,050
Site work	$215,000
Construction	$2,015,000
Project Total	**$2,367,750**

ATTACHMENT C
OUTCOME PERFORMANCE MEASUREMENT INFORMATION

Study Area: LS&I Ore Dock

Baseline Measurement Date: March 1, 2023 - February 29, 2024

Baseline Report Date: May 1, 2024

Table 1: Outcome Performance Measure Table

Measure	Category and Description of Measure
Freight Movements	Economic Competitiveness Number of Railcars loaded with iron ore delivered to the ore dock.
Gross Tons	Economic Competitiveness Tons of material shipped to and from the ore dock.
Vessel Calls	Economic Competitiveness Vessel type and freight capacity of vessels loading/ unloading at the ore dock.

ATTACHMENT D
CHANGES FROM APPLICATION

Scope: After preliminary design, collection of bathometric data, and input from regulators, it has become evident that not all the proposed dredging material shown in the grant proposal is suitable for use in the proposed beneficial reuse areas. Additional areas to deposit dredged materials are described below:

1. The Cliffs Inc./ LS&I Sponsored dredging material (boat slip areas near the Ore Dock) will be placed at a site within the LS&I railyard. This site is currently being used for dredge material disposal as part of annual dredging. The Cliffs Inc./ LS&I Sponsored dredge spoils may contain deleterious materials that are not suitable for beneficial re-use.

2. Any remaining dredge materials will be placed west of Lakeshore Boulevard as shown in the Project design drawings.

Schedule: Due to delays in getting NEPA completed, the Project start and end dates have changed from that anticipated in the application.

Application:

Milestone	Schedule Date
Planned City of Marquette Sponsored Dredging Start Date:	July 1, 2022
Planned City of Marquette Sponsored Dredging Substantial Completion Date:	December 1, 2024
Planned Cliffs Inc./ LS&I Sponsored Dredging Start Date:	July 1, 2022
Planned Cliffs Inc./ LS&I Sponsored Dredging Substantial Completion Date:	December 1, 2024

Grant Agreement:

Milestone	Schedule Date
Planned City of Marquette Sponsored Dredging Start Date:	March 1, 2024
Planned City of Marquette Sponsored Dredging Substantial Completion Date:	September 20, 2026
Planned Cliffs Inc./ LS&I Sponsored Dredging Start Date:	March 1, 2024

Milestone	Schedule Date
Planned Cliffs Inc./ LS&I Sponsored Dredging Substantial Completion Date:	September 30, 2025

Additionally, the Cliffs Inc./ LS&I Sponsored Dredging component in the ore boat area is being proposed for a period of 2 construction seasons (generally March – September due to fish spawning in the fall and the port freezing over during winter) instead of 1 construction season as shown in the grant application. This will allow contractors to complete this work during the short construction seasons without causing shipping delays at the active port site, and not interfering with fish spawning requirements.

Budget: None.

ATTACHMENT E
APPROVED PRE-AWARD COSTS

The Recipient sent a written request to MARAD on January 26, 2023, for pre-award approval authority to begin incurring certain pre-award costs for Preliminary Engineering Design and NEPA Administration related to its Project. The Recipient requested pre-award costs authorization for $13,000.

On February 23, 2023, MARAD approved the Recipient's request to allow the following pre-award costs:

- Preliminary Engineering Design: $8,000
- NEPA Administration: $5,000

These pre-award costs will be eligible to count towards the Recipient's non-Federal cost share, assuming such costs would have been allowable if incurred after the date of the Federal award.

RECIPIENT SIGNATURE PAGE

The Recipient, intending to be legally bound, is signing this agreement on the date stated opposite that party's signature.

THE CITY OF MARQUETTE

Wendy Larsen
Witness

Sally Dawson
City Mayor
City of Marquette

Witness

Kyle L. Whitney, City Clerk
City of Marquette

APPROVED AS TO FORM:

Suzanne C. Larsen
City Attorney

APPROVED AS TO SUBSTANCE:

Karen M. Kovacs
City Manager

MARAD SIGNATURE PAGE

MARAD, intending to be legally bound, is signing this agreement on the date stated opposite that party's signature.

UNITED STATES DEPARTMENT OF
TRANSPORTATION MARITIME
ADMINISTRATION

December 19, 2023
Date

By: 
Signature of MARAD's Authorized Representative

Kelly Mitchell-Carroll
Name

Grants and Cooperative Agreements Officer
Title

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE CITY OF MARQUETTE, MICHIGAN
and
LAKE SUPERIOR & ISHPEMING RAILROAD CO.

1. **Parties.** The Memorandum of Understanding (hereinafter referred to as "MOU") is made by and between the City of Marquette ("City"), a Michigan municipal corporation whose address is 300 W Baraga Ave, Marquette, MI 49855, and Lake Superior & Ishpeming Railroad Co. ("LS&I"), a Michigan corporation, with an address of 200 Public Square, Suite 3300, Cleveland, Ohio 44114.

2. **Purpose.** This MOU, between the above-named parties, is entered into to provide some assurance that both parties will work together to provide matching up to $750,000 toward the required non-federal match for the Port Infrastructure Development Program ("PIDP") Dredging and Coastal Restoration project to dredge encroaching sediment to protect port infrastructure, and deposit dredge materials on shore at the Port of Marquette (the "Project") and collaborate to complete the required work once the PIDP funds have been received for the Project.

3. **Term of MOU.** This MOU shall commence upon the day last signed and executed by the duly authorized representative of the parties to this MOU and will remain in effect until canceled by either party.

4. **City's Responsibilities.** If PIDP funds are approved for the Project, the City will be responsible for applying for the PIDP grant, executing the grant agreement, obtaining necessary clearances (environmental, historical, etc.) and permits as required prior to beginning the project, and overseeing and executing the Project. The City will coordinate with LS&I on the scope of the dredging and location of dredging, permitting for the Project, and the timing of the required non-federal match.

5. **LS&I's Responsibilities.** If the PIDP funds are approved for the Project and LS&I has agreed to the scope and location of dredging, LS&I is willing to provide the required non-federal match, in the form of annual dredging of its ore dock in the amount of approximately $375,000/per year for two years, as deemed necessary and appropriate by LS&I. LS&I will assist the City with providing evidence of this match in the necessary form and timeframe to comply with the grant requirements.

6. **Scope of MOU.** Nothing in this agreement shall be construed to bind either party to the MOU to perform any dredging work, but reflects the parties intentions to coordinate on the dredging efforts contemplated herein and to coordinate on the PIDP grant requirements for non-federal matching.

7. **Signaturcs.** The parties to this MOU through their duly authorized representatives have entered into this MOU on the dates set out below.

Lake Superior & Ishpeming Railroad Co.

8-25-22

James M. Kochevar Date
President

City of Marquette

9-29-22

Jennifer A. Smith Date
Mayor

CITY OF MARQUETTE

Kyle Whitney
Clerk

Approved as to substance:

Karen M. Kovacs

Karen M. Kovacs, City Manager

Approved as to form

Suzanne C Larsen

Suzanne C. Larsen, City Attorney