



4393 Collins Road
Rochester, MI 48306
(248) 651-9260
Paintcreektrail.org

Paint Creek Trailways Commission Meeting

Tuesday, February 21st, 2023 at 7:00 PM
Paint Creek Cider Mill, 4480 Orion Road, Rochester, MI 48306

MEETING AGENDA

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Approval of Agenda**
4. **Public Comment**
5. **Consent Agenda:**
 - a. Minutes: Regular Meeting, January 17th, 2023
 - b. Treasurers Report – January 2023
6. **Approval of Invoices**
7. **Public Hearing:** Transportation Alternatives Program (TAP) Grant Application
TA 2023037 – Paint Creek Trail Bridge 31.7 Renovation
8. **Approval:** Temporary Permit, Deanna Skelcy, Eastside Racing Company –
Train to Trails Half Marathon – September 10, 2023
9. **Report:** Licensing Committee
10. **Discussion/Approval:** Limited Use Permit Request, Bald Mountain
Recreation Area Bridge to PCT, Oakland Township
11. **Update:** Grant Opportunities & Trail Capital Improvement Projects
12. **Discussion/Direction:** Southeast Rochester Property
13. **Discussion:** Ad Hoc Committee Assignments
14. **Discussion:** 2023 Goals
15. **Manager's Report**
16. **Commissioner Reports**
17. **Adjournment of Regular Meeting**

Mission

The Paint Creek Trailways Commission provides trail users a natural, scenic, and educational recreation experience while preserving the natural integrity of the Paint Creek Trail for the enjoyment of present and future generations.

Next Regular Meeting:

March 21, 2023 – Paint Creek Cider Mill, 4480 Orion Road, Rochester, MI 48306

Enclosures: Agenda Summary
January 17th, 2023 Regular Meeting Draft Minutes
January 2023 Treasurer's Report
Paint Creek Trailways Commission TAP Grant Application
Temporary Permit Application: Eastside Racing Company Train to Trails Half Marathon –
September 10, 2023
Report: Licensing Committee
Memo: Bald Mountain Recreation Area Bridge to PCT
Application for Limited Use Permit – Bald Mountain Recreation Area Bridge to PCT
Memo: Grant Opportunities & Trail Capital Improvement Projects
Memo: Southeast Rochester Property
Ad Hoc Committee Descriptions
Memo: 2023 Goals & Objectives
February Manager's Report
2023 Paint Creek Trailways Commission Operations Budget – Amended January 17, 2023

Mission

The Paint Creek Trailways Commission provides trail users a natural, scenic, and educational recreation experience while preserving the natural integrity of the Paint Creek Trail for the enjoyment of present and future generations.

Agenda Summary February 21, 2023

1. **Call to Order**
2. **Pledge of Allegiance**
3. **Approval of Agenda**
4. **Public Comment**
5. **Consent Agenda:**
 - a. Minutes: Regular Meeting, January 17th, 2023
 - b. Treasurers Report – January 2023
6. **Approval of Invoices**
7. **Public Hearing:** Transportation Alternatives Program (TAP) Grant Application TA 2023037 – Paint Creek Trail Bridge 31.7 Renovation
Summary: As part of the city of Rochester/Trailways Commission's application to Transportation Alternatives Program, we are required to receive public comment on our application. A public hearing notice was printed in the Lake Orion Review on February 8th and the Rochester Post on February 9th and on the trail website and social media. The application and supplemental materials were posted online and hard copies were made available at the Trail office and Rochester City Hall.
Desired Action: Receive comment on Grant Application TA 2023037
Budget Impact: None
8. **Approval:** Temporary Permit, Deanna Skelcy – Eastside Racing Company – Train to Trails Half Marathon – September 10, 2023
Summary: Temporary permit application for first-time applicant Eastside Racing Company for half marathon on September 10, 2023.
Desired Action: Approval
Budget Impact: None
9. **Report:** Licensing Committee
Summary: The Licensing Committee will provide a report on some of the licensing/encroachment issues that they have been reviewing.
Desired Action: Discussion
Budget Impact: None
10. **Discussion/Approval:** Limited Use Permit Request, Bald Mountain Recreation Area Bridge to PCT, Oakland Township
Summary: The DNR plans to construct a bridge connecting Bald Mountain Recreation Area to the PCT in Oakland Township. A memo is included in your packet with updated answers from the project engineer to the Licensing Committee's questions.
Desired Action: Approval
Budget Impact: None
11. **Update:** Grant Opportunities & Trail Capital Improvement Projects
Summary: Trail Manager Ford will provide an update on the upcoming grant opportunities for the Bridge 31.7 project.
Desired Action: Discussion/Direction
Budget Impact: TBD
12. **Discussion/Direction:** Southeast Rochester Property

Summary: Trail Manager Ford will provide an update on developments with the Southeast Rochester Property and its feasibility.

Desired Action: Discussion/Direction

Budget Impact: TBD

13. **Discussion:** Ad Hoc Committee Assignments
Summary: Discuss and finalize Ad Hoc Committee assignments.
Desired Action: Approval
Budget Impact: None
14. **Discussion:** 2023 Goals
Summary: A compiled 2023 Goal rankings is included in your packet.
Desired Action: Approval
Budget Impact: None
15. **Manager's Report:** Included in your packet.
16. **Commissioner Reports**
17. **Adjournment of Regular Meeting**

Next Regular Meeting:

March 21, 2023 – Paint Creek Cider Mill, 4480 Orion Road, Rochester, MI 48306



4393 Collins Road
Rochester, MI 48306
(248) 651-9260
Paintcreektrail.org

REGULAR MEETING of the PAINT CREEK TRAILWAYS COMMISSION
Paint Creek Cider Mill
4480 Orion Road, Rochester, MI 48306

CALL TO ORDER: The Tuesday, January 17, 2023 Regular Meeting was called to order by Chairperson Olijnyk at 7:00 p.m.

Voting Members Present: Ken Elwert, Linda Gamage, Steve Sage, David Walker, Aaron Whatley

Voting Alternates Present: Dave Mabry, Martha Olijnyk

Non-Voting Alternates Present: David Becker, Carol Morlan

Voting Members Absent: Brian Blust, Robin Buxar

Alternates Absent: Julia Dalrymple, Russell George, Ann Peterson, Patrick Ross

Village of Lake Orion Non-Voting Member Absent: Jason Peltier

Village of Lake Orion Non-Voting Alternate Absent: Jerry Narsh

Others Present: Melissa Ford, Trail Manager, Eryn Grupido, Administrative Assistant, Louis Carrio, Friends Group, Sandi DiSipio, Recording Secretary

PLEDGE OF ALLEGIANCE: All rose and recited the Pledge.

APPROVAL OF AGENDA:

MOTION by Elwert, seconded by Gamage, ***Moved***, to approve the January 17, 2023 agenda as presented.

Ayes: All Nays: None

MOTION CARRIED.

PUBLIC COMMENT: None

CONSENT AGENDA:

a. Minutes – December 13, 2022 Regular Meeting, approve and file

b. Treasurers Report – December 2022, receive and file

Chairperson Olijnyk noted her name is incorrectly spelled on page 2; this typo will be rectified.

MOTION by Sage, seconded by Elwert, ***Moved***, to approve the Consent Agenda as presented with the correction noted above.

Ayes: All Nays: None

MOTION CARRIED.

APPROVAL OF INVOICES: Ms. Ford presented the list of invoices totaling \$4,136.00. In addition to the recorder's fee, this amount includes credit card charges for GoToMeeting monthly fee and refreshments for the December meeting; reimbursement to Rochester for Bridge 31.7 engineering review fees, and an invoice for attorney fees for review of Solaronics and Dillman & Upton license issues. Estimated unrestricted fund balance is \$93,000.

MOTION by Mabry, seconded by Gamage, ***Moved***, that the invoices presented for payment are approved as presented in the amount of \$4,136.00 and orders be drawn for payment.

Ayes: All Nays: None

MOTION CARRIED.

APPROVAL: Temporary Permit, Abigail Carmos – Grace Centers of Hope 5k, October 7,

2023: Ms. Abigail Carmos the assistant special events coordinator at Grace Centers of Hope in Pontiac came forward, introduced herself and summarized the event and what Grace Centers of Hope does. Their center is a one-year life skills program focusing on homelessness and addiction for men, women and children. The majority of their residents come from Oakland County and surrounding areas; but are not limited to this area as people come from all over the country. During the first year, people receive three meals a day, clean clothing, safe shelter and life skills classes from finance to parenting. They are cared for through personal accountability, counseling and work-related programs. The children are cared for by a licensed daycare center. Upon completion of the one-year program, they have the opportunity to move into one of their 54 houses all within walking distance from the campus. During these two years, they can use the skills they learned to become productive citizens. After two years, they can then qualify to purchase one of the homes. So, the center sees homelessness to home ownership in 3-4 years. Grace Centers operates each day throughout the year without any government funding, everything provided for the residents is from donations. Ms. Carmos is hoping for approval on their first 5k event on the trail. Insurance paperwork and application fees have been submitted. Since the event will start from Flagstar Bank, Ms. Carmos was asked to coordinate parking at the Cider Mill with Oakland Township, a contact will be provided. The event will be timed running from Flagstar towards Adams Road half-way, then turning around and returning to Flagstar. The timer will just be at the start and finish, and the strips will be on the path, not the trail. A water table is planned at the turnaround point. Ms. Carmos has been working with Hanson's Running Shop on event guidance; they will be providing the start/finish line and timer. The Commission thanked Ms. Carmos for what Grace Centers does, hopes the event is successful and asked for feedback after completion.

MOTION by Mabry, seconded by Gamage, *Moved*, to approve the application for Grace Centers of Hope to hold their 5k event on the trail October 7th, with a rain date of October 21st.

Ayes: All Nays: None

MOTION CARRIED.

DISCUSSION: Limited Use Permit Request, Bald Mountain Recreation Area Bridge to PCT, Oakland Township:

Mr. Adam Lepp from the DNR, came forward and summarized the history of the project. The project has been in the works for at least 10 years; the first hurdle was to gain the property in order to get next to the trail. There was a land swap between Orion Township and the DNR about five years ago, which resulted in 40 feet of access to the trail – but they still need to get across the creek. A question was asked about why this bridge is necessary when it's so close to another bridge. Mr. Lepp explained the benefit of this connection is that it connects the Bald Mountain Recreation area to the trail, enabling access to the cabins and future yurts where the organization campground used to provide overnight lodging opportunities right off the trail. Another benefit is making the connection between Bald Mountain North trails and the South trails and eventually to Addison Oaks so users don't have to stay on Lake George Road for so long. There was a legal question previously posed by the Licensing Committee about liability; Mr. Lepp's understanding of the response is that the bridge is DNR's responsibility, not the PCT, so maintenance is handled by the State. Mr. Mabry noted the bridge is 600' from the Archery and asked if it is 600' from where the boards are. Mr. Lepp explained if you're on the trail, the boards are located at the middle of the bridge. Mr. Becker noted the section of the trail north and south of the bridge location would require closure of the trail during the four-week installation period for safety reasons, and asked if this would be a full four-week closure. Mr. Lepp indicated no, it would be intermediate closures, but can't answer for how many days as equipment needs to be brought in. They wanted to use the trail for the entrance of a crane to set the bridge. Mr. Becker asked if they use the trail for the crane, will the trail be restored to how it

was. Mr. Lepp responded yes. Mr. Becker added that trail users are very clever about going around equipment, and asked if there will be someone present to stop people. Mr. Lepp will notify the consultants about this issue; someone could possibly be there when operating equipment. Mr. Whatley asked if the project is funded. Mr. Lepp stated the project will use capital outlay money. Since the consultant is in place and money has already been spent to start, it will continue. Ms. Olijnyk asked what other equipment will be used on the trail other than a crane. Mr. Lepp said there might be a loader to move product, but on the trail side nothing additional other than a truck. Ms. Olijnyk referred to the drawings where it shows a concrete abutment between the bridge and the trail and asked if this is correct. Mr. Lepp said yes, and wished the engineer consultant was present to explain. Ms. Olijnyk then asked if any railings are proposed and where. Mr. Lepp said he can ask the engineer to come to a meeting or if the Commission wants to generate specific questions that he could answer. Mr. Walker asked what the benefit is to the trail with the project. Mr. Lepp said people who use Bald Mountain amenities can commute to the PCT, there's plenty of parking off Kern Road. Ms. Ford indicated the trail has parking at Clarkston/Kern and at Paint Creek Junction, the new trailhead just north of the proposed bridge. Mr. Elwert added it's a benefit to the trail for people using the Iron Belle Trail for an overnight camping spot, and also for grant writing. Mr. Becker commented this connection is something the Commission has wanted for a long time and is happy it's getting done. Ms. Gamage suggested the Licensing Committee compile questions relative to engineering issues and have them answered. She sees the benefit of the project, but some of the details need to be worked out to protect trail property. Mr. Elwert asked if there is a concern if this is not approved tonight, will it delay the bid process? Mr. Lepp said it will be bid out soon, and suggested a list of questions could be asked of the consultant or he could come to the next meeting; a month's time should be fine. Mr. Walker said the Licensing Committee is meeting next Monday. The consensus is to submit any questions to the engineering consultant and get answers, and then discuss/approve the request at our next meeting.

UPDATE: Grant Opportunities & Trail Capital Improvement Projects: Ms. Ford said the Spark Grant application was submitted; the first-round grantees will be announced the week of January 30th. The Commission's pre-proposal for the Fisheries Habitat grant was not selected to move forward in the process. Ms. Ford spoke with the program manager for feedback on why we were not selected; the answers are included in the summary memo included in the packet. We can apply next year if needed. No new information on the Ralph C. Wilson, Jr. Trails Maintenance Fund, the Michigan Natural Resources Trust Fund or the Land and Water Conservation Fund. Relative to the TAP Grant, AEW submitted the SHPO application in mid-December and anticipates hearing back in February – the main question is whether or not the bridge is going to be designated as historic. That will determine how we proceed with this project. Without that information, Ms. Ford does not know if we will be applying for TAP funding, but is working under the assumption that we're going to be, is working on the grant application right now and has a meeting with Mr. Mizikar next week, as the city of Rochester will be applying for the grant on behalf of the Commission. She also needs to talk to Rochester about the 20% cash match of construction costs for the project. The next item on the agenda is the Resolution of Support for the TAP Grant Application which is required from the Commission. Ms. Ford also has a Sponsorship Agreement with the city of Rochester that needs to be signed for this grant application.

APPROVAL: Resolution #2023-001 – Resolution in Support of the city of Rochester's TAP Grant Application for PCT Bridge 31.7 Renovation:

MOTION by Sage, seconded by Walker, *Moved*, to accept and approve Resolution #2023-001 as presented.

RESOLUTION #2023-001 In support of the City of Rochester's Application to the Transportation Alternatives Program for Paint Creek Trail Bridge 31.7 Renovation

WHEREAS, the Paint Creek Trailways Commission, an intergovernmental agency, owns, manages, and operates the 8.9-mile Paint Creek Trail in Oakland County, Michigan; and

WHEREAS, the Paint Creek Trailways Commission supports the submission of an application titled "Paint Creek Trail Bridge 31.7 Renovation" to the Transportation Alternatives Program, for the development of a 70' long pedestrian bridge between Ludlow Avenue and Tienken Road in Rochester, Michigan; and

WHEREAS, the location of the proposed project is within the jurisdiction of the Paint Creek Trailways Commission; and

WHEREAS, the City of Rochester Department of Public Works maintains the portion of the Paint Creek Trail within their jurisdiction and will continue maintaining Bridge 31.7; and

WHEREAS, the proposed project, if completed, will be a benefit to the community and the thousands of trail users annually; and

WHEREAS, the proposed development application is supported by the approved 2020-2024 Paint Creek Trail Recreation Master Plan and the city of Rochester's 2019-2023 Parks & Recreation Master Plan; and

WHEREAS, with this resolution of support it is acknowledged that the Paint Creek Trailways Commission is not committing any of their own funds to any financial obligations; and

NOW, THEREFORE, BE IT HEREBY RESOLVED THAT the Paint Creek Trailways Commission of Oakland County, Michigan, hereby supports the submission of a Transportation Alternatives Program Grant Application for the "Paint Creek Trail Bridge 31.7 Renovation" project for the total project cost of \$958,800.

Ayes: Elwert, Gamage, Mabry, Olijnyk, Sage, Walker Whatley
Nays: None

MOTION CARRIED.

UPDATE/DISCUSSION: Solaronics: Ms. Ford explained our attorney received a response from Solaronics' attorney; they said they are still using the property, it's not abandoned, the property is under contract for sale and the buyer is going through due diligence. The buyer is scheduled to meet with City Council and the Planning Commission in February with modifications to the project to address the concerns raised, and are anticipating approval. With respect to our proposal about amending the agreement so it terminates with the sale of property – they appreciate the offer, but instructed their attorney to wait on modifying the existing agreement for the time being. Ms. Hamemeh thinks we have to wait to see how everything shakes out before we move on it; Ms. Ford agrees with her but wants to hear from the Commission. Mr. Elwert asked if we have an obligation once we've identified we think it's vacant to take action – how long do we wait? Ms. Ford indicated our attorney said under Michigan law vacant and abandoned are two different things, so just because it's vacant doesn't mean it's abandoned. Ms. Gamage commented this issue demonstrates our need to be careful in future license agreements and ensure we can reclaim our property when we need to. In reading the minutes from last meeting, there was a statement that even if the Planning Commission approves the plan, it still has to go before City Council and the Master Plan currently does not have this property zoned for multifamily use. However, Ms. Gamage has also heard that the Master Plan is being looked at for modification as well to rezone some of these properties to put something in place so it wouldn't need to go through the Planning Commission for a plan like what is proposed. We need to keep in mind that Master Plans and zoning can change which is out of our control – but what is in our control is the agreement we made with property owners and moving forward. Ms. Gamage feels we should reclaim our property and have it used the way that matches our mission. Regarding Mr. Elwert's comment, Ms. Olijnyk feels we are protecting our rights, and it doesn't mean we have to go forward now – as long as we continue to maintain our

rights under the agreement, we're ok. But the Commission needs to decide if we think it's really abandoned and go after it, or wait a little longer and see what happens. Ms. Ford indicated Ms. Hamemeh asked if they were still maintaining the property, which they are doing. Mr. Walker feels our property is going to be returned to us eventually. Mr. Sage stated at the February Planning Commission meeting, they will consider whatever new plan they bring forward to develop the property and decide at that time whether they will move it to March for a public hearing to consider the new site plan and whatever zoning ordinance change will be needed. The Planning Commission would approve both, and the zoning goes back to Council in April to decide whether or not to change the zoning. It is currently not zoned for multifamily; it's zoned industrial with the provision of single family. Mr. Becker feels it would be imprudent to move forward with any legal action and wants to see what happens. The consensus is to keep an eye on what evolves.

INFORMATION/DISCUSSION: Dillman & Upton: Ms. Ford indicated she was contacted by Nik Banda, Rochester's City Manager, in late December to say Rochester has been working with Dillman & Upton about extending the existing cedar fence along the trail edge with a new step-down section that would screen the parking lot. Their thought was that it would give them more storage room and clean up the view from the road and the trail. Rochester is in support of the project, wanted to let the Commission know about it and solicit our thoughts. Ms. Ford reached out to the Licensing Committee and they had questions included in the memo in the packet. On the drawings provided there is a fuel tank located on part of trail property. Ms. Ford went out and measured it, and it's about four feet on our property which is in violation of the license agreement as no flammable liquids are supposed to be on our property. She reached out to Dillman & Upton about this and Mr. Upton let Ms. Ford know he's going to look at the fuel shed and report back, but she hasn't heard anything yet. They are also reworking the drawings as there were also some questions about the fence. There is no new information other than what's included in Ms. Ford's memo, so we are waiting on the new drawings because what they were proposing did not match the schematics provided to the Commission. The proposal shows a step-down fence starting from 12' down, when the license agreement calls for a 10' fence. Mr. Walker said the earlier renderings from the license agreement show a box (probably the fuel shed) drawn much further away from trail property, and the new engineer accurately reflected where the fuel shed is. Ms. Ford said this fuel shed will not be easily moved. Mr. Elwert said this is a liability problem for us as it's on our property. Mr. Walker said we need to bring attention to the fuel shed issue and either negotiate separately or as part of the new license agreement. Mr. Becker asked what's the purpose of the step-down fence. Ms. Ford said aesthetics and maybe the sight line from the road, and added they are not replacing the existing fence, only extending it. Ms. Gamage reminded the Commission that the existing fence was previously leaning and propped up on our property with tree branches and 2x4's. Also, when Rochester was working on Ludlow, they took out several trees that were on trail property adjacent to Dillman & Upton's parking lot, and for a few years, Rochester promised they were going to replant the trees. When we inquired about the trees, Rochester said they needed Dillman & Upton to promise to stop plowing the snow and salt into the trees. Finally, three trees were planted there. Ms. Gamage's concern is that we didn't ask Dillman & Upton to extend the fence and would prefer to see natural barrier between their parking lot and the trail rather than another fence that requires maintenance. She's not sure what the property owner is trying to accomplish with the fence. Chairperson Olijnyk said there are a number of items the Licensing Committee is considering about this and how to move forward, whether it's negotiation with the agreement as it exists or having something separate. Mr. Walker said we've had this license agreement for 30+ years and have never increased the rate, so we've been collecting a nominal amount that probably hasn't been adjusted even for inflation, so we're allowing them real property to store material for low cost. Mr. Elwert strongly reinforced that with the licensing agreement, the fuel shed must be moved as we have established that we have

something hazardous on our property that's not allowable – it's potentially explosive. Ms. Ford brought this to the property owner's attention, and his response was that the renderings are being redrawn, he would go out and look at the fuel shed and report back. Ms. Gamage said if anyone has questions about this project to get them to the Licensing Committee as they are meeting next Monday. Ms. Olijnyk asked if the fuel shed was shown on the survey we had done for trail property in preparation for the lawsuit. Ms. Ford will bring the survey down for review after the meeting. Ms. Gamage also suggested checking Rochester's ordinances relative to fuel tanks.

DISCUSSION/DIRECTION: Paint Creek Trailways Commission Fund at the Community Foundation of Greater Rochester:

A comment was made last month about transferring some funds from the Fund Balance over to the Community Foundation so we reach the \$10,000 minimum they require in order to keep a fund there. Ms. Ford indicated at the end of last year, we had \$5,691.89 in our account and personally feels it's worthwhile to keep the account active as it provides people a tax write-off if they donate. She indicated we had some donations from private individuals last year, and asked for feedback from the Commission. Mr. Becker thinks it's a good idea and suggested depositing \$4,500 into our account from Fund Balance. A question was posed if our bank's interest rate is higher, and Ms. Ford will check into that. Moving the funds would require a budget amendment – this can be done in conjunction with the next agenda item. The consensus is to move \$4,500 into the Community Foundation.

APPROVAL: Budget Amendment: Ms. Ford explained there was an increase in rent for the office this year that she was not aware of when the budget was prepared, so she is requesting the Commission approve a budget amendment to move \$900 from the Fund Balance to the Operations Budget to cover the difference.

MOTION by Elwert, seconded by Mabry, *Moved*, to approve moving \$900 from the Unrestricted Fund Balance into the Operations Budget for rent, and also moving \$4,500 from the Unrestricted Fund Balance into the Trailways Commission Fund at the Community Foundation of Greater Rochester.

Ayes: All

Nays: None

MOTION CARRIED.

DISCUSSION: Ad Hoc Committee Assignments: Ms. Ford said there are some vacancies on committees due to Ms. Steele moving on. There is no new Orion Township Commissioner yet, they will be appointed February 6th. Mr. Ross will be assigned to the Personnel Committee. Ms. Olijnyk said she would be agreeable to move to the Licensing Committee and resign from the Fundraising Committee. Ms. Ford commented the Licensing Committee historically has had one representative from each community, and right now Ms. Buxar is on from Oakland Township. Ms. Olijnyk rescinded her seat to allow someone from Orion Township to serve on the Licensing Committee. The Fundraising Ad Hoc Committee was removed from the roster. It was suggested that the Memorial Program be incorporated into the Trail Improvements/Resurfacing Committee. This item will be brought back next month to secure Orion Township's representative to the Licensing Committee.

DISCUSSION: 2023 Goals: Ms. Ford indicated she will send the document to everyone after the meeting and asked that it be reviewed, ranked, edited and sent back to her by February 14th. Ms. Ford will compile a document with the averages for the next meeting. She asked if anyone wants to eliminate, add or change anything tonight. Mr. Elwert commented it would be helpful to have a specific date, rather than a one-year time frame for the additional goals, like the bridge review. Ms. Ford said Oakland Township will inspect their bridges in 2024 and Orion Township completed their review in 2022 and Rochester Hills will be done this year. Mr. Elwert thought the idea was to get these inspections done near the same time. Mr. Whatley will check to see if the bridge comparison can be accomplished with this gap.

MANAGER'S REPORT: Ms. Ford summarized her written report included in the packet. All invoices for 2023 have been sent out, and all invoices for 2022 have been paid. AEW has reviewed the geotechnical report and are finalizing the depth of the foundations that needs to be set for Bridge 31.7. She is still working on getting an updated cost estimate from Rochester's engineering firm for the Southeast Rochester Property. Regarding the beach encroachment, Ms. Ford reached out to EGLE for the revised plans from the homeowner which were due January 8th, and hopes to have an update next month. Staff submitted the Pure Michigan application this week, approvals will be announced in March/April. Ms. Ford reported she received an email from Consumers relative to the Dutton Road Bridge Replacement – they need to relocate the 6" gas main that runs under the trail. The old main will remain and they need to bore under the trail to put in the new main. There may already be an agreement in place for the main, Consumers will verify. Closure of the trail will not be required and no equipment will be on trail surface.

COMMISSIONER REPORTS: In connection with the Dutton Road Bridge project, Mr. Elwert said a crosswalk is proposed as part of the bridge project, details are being worked out.

ADJOURNMENT OF REGULAR MEETING:

MOTION by Mabry, seconded by Gamage, *Moved*, to adjourn the Regular Meeting at 8:45 p.m.
Ayes: All Nays: None

MOTION CARRIED.

NEXT REGULAR MEETING: February 21, 2023 at 7:00 p.m. – Paint Creek Cider Mill

Respectfully submitted,

MELISSA FORD, Trail Manager

DAVID BECKER, Secretary

Paint Creek Trailways Commission Treasurer's Report - Flagstar Bank January 2023

Balance:	31-Dec-22		
	Checking Balance	\$	170,501.85
	Outstanding Checks (3620,3623,3626,3631,3632,3640)	\$	978.55
	TRAILWAYS COMMISSION BALANCE		\$ 169,523.30
Revenues:			
	Cash Donation	\$	15.00
	License Fee 2022: Solaronics	\$	1,500.00
	Temporary Permit Fee: Grace Centers of Hope	\$	10.00
	License Fee 2023: Sunoco Pipeline, partial payment	\$	127.00
	Interest Income - January 2023 Interest Income		108.51
	Total Revenues	\$	1,760.51
			\$ 171,283.81
Expenditures:			
	3648- Chase Card Services	\$	125.00
	3649 - Sandi DiSipio - Records Fee - January 17, 2023	\$	240.00
	3650 - City of Rochester - Engineering Review Fees: Brdg 31.7	\$	3,646.00
	3651 - Rosati, Schults, Joppich & Amtsbuechler, P.C.	\$	125.00
	Total Expenditures	\$	4,136.00
			\$ 167,147.81
Balance:	31-Jan-23		
	Checking Balance	\$	167,802.81
	Outstanding Checks (3623,3640,3649)	\$	655.00
	TRAILWAYS COMMISSION BALANCE		\$ 167,147.81

Signed By: _____	_____
Trailways Commission Treasurer	Trail Manager

Date: _____	_____
-------------	-------

Applicant Information

Application Number: 2023037
 Section: 01
 Applicant Agency: City/Village
 Grant Applicant: Rochester

Project Description

Project Name: Paint Creek Trail Bridge 31.7 Renovation
 Type of Work: Replacement of Paint Creek Trail Pedestrian Bridge on Iron Belle Trail
 Length (miles): 0.1

Project Location

County: Oakland
 Region: Metro
 Prosperity Region: Detroit Metro Prosperity Region
 City/Village or Township: Rochester
 Zip Code: 48306
 Route/Street Name/Facility Name: Paint Creek Trail
 Project Limits (use nearest cross streets): Ludlow Avenue to Tienken Road
 MPO (Metropolitan Planning Organization): Southeast Michigan Council of Governments
 TMA (Transportation Management Area): Detroit

Legislative Information

State Senator: Paul Wojno (9)
 State Representative: Felicia Brabec (55)
 U.S. Representative: Lisa McClain (10)

Project Category

Facilities for pedestrians and bicyclists, including traffic calming and other safety improvements

Contacts

Prefix Contact Type	Name Title	Phone Organization	Cell	Email
Ms Application Preparer	Melissa Ford Trail Manager	(248) 651-9260 Paint Creek Trailways Commission		manager@paintcreektrail.org
Mr Chief Administrative Official	Nik Banda City Manager	(248) 733-3700 City of Rochester		nbanda@rochestermi.org
Mayor Chief Elected Official	Stuart Bikson Mayor	(248) 733-3700 City of Rochester		sbikson@rochestermi.org
Ms Contact Person	Melissa Ford Trail Manager	(248) 651-9260 Paint Creek Trailways Commission		manager@paintcreektrail.org
Mr Sponsor	Nik Banda City Manager	(248) 733-3700 City of Rochester		nbanda@rochesermi.org

Mr Other	Anthony Moggio Finance Director	(248) 733-3700 City of Rochester	amoggio@rochestermi.org
-------------	------------------------------------	-------------------------------------	-------------------------

Narrative

1. In a brief narrative, describe the proposed work and how the project will benefit the affected community(ies):

This project proposes the renovation of 46? long pedestrian Bridge 31.7 on the Paint Creek Trail, a regional rail trail included in the Iron Belle Trail. A structural inspection of the nearly 100-year-old timber railroad bridge documented extensive decay of its structural components which compromise the safety of the bridge. The renovation of Bridge 31.7 will greatly improve accessibility for both Paint Creek Trail users as well as emergency and maintenance vehicles, increasing the clear width from less than 8? to 14? and ensuring the ability to support a 10-ton emergency vehicle.

The non-motorized Paint Creek Trail is part of the Oakland County Oak Routes Trail Network, as well as the Iron Belle Trail. The Trail is 8? feet wide and surfaced with crushed limestone. The trail is 8.9 miles long, with 0.6 miles in the city of Rochester. Bridge 31.7 provides access across Paint Creek for pedestrians, cyclists, and skiers.

The Paint Creek Trailways Commission is committed to providing universal access to recreation. The Paint Creek Trail does NOT have a ?residents only? policy. It is completely free and open to the public. It welcomes a wide variety of users from throughout the metro-Detroit region and beyond. The Trail receives over 100,000 users annually and connects the business districts of Rochester, Goodison, and Lake Orion, and connects directly to Dinosaur Hill Nature Preserve in Rochester and Bald Mountain State Recreation Area in Orion Township. Amenities include picnic areas, benches, restrooms, drinking fountains, nature observation decks, interpretative signage, free little libraries, and bicycle repair stations. Existing recreation opportunities which will continue with this bridge?s renovation include fishing, cycling, walking and running, cross-country skiing, and nature observation.

During the project, the existing bridge will be replaced with a keystone style prefabricated truss bridge in weathered steel with corrosion allowance and IPE timber decking. The new bridge will be 70? feet in length, spanning the entire stream and eliminating both the piers from restricting the stream flow as well as the log jams that currently occur. A GRS (Geosynthetic Reinforced Soil) abutment wall construction will be used in which alternating layers of compacted granular fill and geosynthetic reinforcement provide support for the bridge. With this system, the closely spaced reinforcement and granular soil create an efficient composite material that is internally stable and capable of carrying significantly higher bridge loads with predictable and reliable performance. Based on these specifications, the expected lifespan of the bridge is seventy-five years and requires almost no maintenance during its lifespan. The design was selected due to its long lifespan and minimal ongoing maintenance costs. Aesthetically, this bridge will look similar to Paint Creek Trail bridge 33.7, which is also steel truss bridge, and was constructed in 2019.

The bridge?s universal design provides minimum clear bike/multi-use path width of 14? and supports 20 mph bicycle speed. These standards were developed to provide the safest traveled way for pedestrians on multi-use paths of both walking and riding individuals. The fourteen-foot path width is to provide adequate shy distance between a walking individual and a bicyclist meeting at the same location on the pathway. The bridge slope is less than 2% allowing easy access for those using wheelchairs or other power-driven mobility devices. The 54? tall railings will provide a safe vantage point for nature observation.

2. Describe how this project is competitive for funding:

Support of Regional & Statewide Nonmotorized Transportation Network: The Paint Creek Trail, a popular regional rail trail, is a key link in Oakland County?s Oak Routes Network, as well as the Iron Belle Trail. Bridge 31.7 provides access across the Paint Creek for pedestrians, bicyclists, & skiers.

Appropriate for Targeted Need & User Types: The Paint Creek receives over 100,000 users annually & they are comprised of cyclists, pedestrians, equestrians, nature enthusiasts, & anglers. Existing recreation opportunities which will continue with this bridge?s renovation include fishing, bicycling, walking & running, cross-country skiing, & nature observation.

Benefits State Tourism or Economic Development: The non-motorized Paint Creek Trail is part of the Oakland County Routes Trail Network, as well as the Iron Belle Trail. The trail connects the business districts of Rochester, Goodison, & Lake Orion & connects directly to Bald Mountain State Recreation Area in Orion

Township. With the Paint Creek Trail's connection to the Polly Ann Trail to the north & west, & the Clinton River Trail & Macomb Orchard Trail to the southeast, users of these three trails are able to enjoy a system of over sixty-five miles. Additionally, both the Clinton River Trail & the Macomb Orchard Trail are part of the Great Lake-to-Lake Trails Route #1 which is a 275-mile shared use trail across Michigan's southern Lower Peninsula that links Lake Michigan & Lake Huron.

Address Documented Safety Deficiencies: In 2016, a structural inspection of Bridge 31.7 documented extensive decay of its structural components which compromise the safety of the bridge. The bridge needs to be replaced due to its age & the deterioration of the bridge's timber superstructure, piers, & abutments. Furthermore, this project is a critical element in both Rochester's 2019-2023 Parks & Recreation Master Plan & in the Paint Creek Trail's 2020-2024 Recreation Master Plan. If Bridge 31.7 were to fail or be declared unsafe, the trail would be closed to through-movement. Its replacement is critical to the safe operations of the Paint Creek Trail & the Iron Belle Trail network.

Financial Factors: The level of match for this project is greater than 40% (47.39%) which is considered a high level of overmatch. 100% of non-participating work consists of construction engineering & observation necessary to the project. In the spring of 2022, the city of Rochester & the PCTC were awarded grants totaling \$75,000 which supported the design engineering & environmental services for the project.

Public Input from Multiple Partners: See attached Intergovernmental Agreement for the Paint Creek Trail which describes how the four member municipalities, including the city of Rochester, collaborate to improve, manage & operate the Paint Creek Trail. See attached Reaffirmation of Understanding of Maintenance Responsibilities & In-Kind Services which shows the collaboration among the five trail communities to provide maintenance & operational support of the Paint Creek Trail. Public input was received on this grant application at Rochester City Council & PCTC meetings held on February 13th & 21st after it was made available for review on three websites, social media, & at the trail office & at Rochester City Hall.

Project Use of Industry Design Standards & Ability to Obtain Approvals: The attached bridge design does adhere to ADA & AASHTO guidelines for bicycle & pedestrian facilities. The city of Rochester would apply for a Joint EGLE/USACE permit & can issue a temporary road closure permit if necessary.

Maintenance Plan: See attached maintenance plan that includes tasks, schedule, cost, source of maintenance funding & responsible parties.

Previous TE & TAP Funding: The city of Rochester has not previously received TE or TAP funding. The Road Commission of Oakland County received TAP funding on behalf of Oakland Township & the PCTC for the 2019 Paint Creek Trail Bridge 33.7 Renovation Project.

Documents

Document	Document Type	Description	User	Date
1	Engineer's Estimate	Engineer's Construction Cost Estimate for TA2023037.01	fordm4480	02/07/2023
2	Resolution	Paint Creek Trailways Commission TAP Grant Resolution	fordm4480	02/07/2023
3	Letter of Support	Della Torre Family Letter of Support	fordm4480	02/07/2023
4	Letter of Support	Mythili Srinivasan Letter of Support	fordm4480	02/07/2023
5	Letter of Support	Lake Orion DDA Letter of Support	fordm4480	02/07/2023
6	Other	Paint Creek Trail Intergovernmental Agreement	fordm4480	02/07/2023
7	Other	Reaffirmation of Understanding - Maintenance of Paint Creek Trail	fordm4480	02/07/2023
8	Other	City of Rochester Right of Way Letter	fordm4480	02/07/2023

Budget

Participating Items of Work

Item of Work	Quantity	Unit	Unit Cost	Item Cost
Embankment, CIP	400.00	CYD	\$25.00	\$10,000.00
Backfill, Structure, CIP	200.00	CYD	\$40.00	\$8,000.00
Excavation, Fdn	900.00	CYD	\$30.00	\$27,000.00
Cofferdams	1.00	LSUM	\$125,000.00	\$125,000.00
Substructure Conc	15.00	CYD	\$1,200.00	\$18,000.00
_GRS Abutment	900.00	SFT	\$75.00	\$67,500.00
_Reinforced Soil Foundation	135.00	CYD	\$150.00	\$20,250.00
_70'x14' Prefabricated Bridge	1.00	LSUM	\$330,000.00	\$330,000.00
_Riprap, Natural Stone	85.00	SYD	\$200.00	\$17,000.00
_Path Work	1.00	LSUM	\$130,000.00	\$130,000.00
Structures, Rem	1.00	LSUM	\$135,000.00	\$135,000.00
Total:				\$887,750.00

Non-Participating Items of Work:

Item of Work	Quantity	Unit	Unit Cost	Item Cost
Construction Administration & Observation	1.00	LSUM	\$71,050.00	\$71,050.00
Total:				\$71,050.00

Participating Match Details:

Source	Type	Amount	Match Percentage
MNRTF Grant	MDNR	\$300,000.00	33.79%
City of Rochester	City/Village	\$120,710.00	13.60%
Total:		\$420,710.00	47.39%

Source of Non-Participating Funds: City of Rochester: \$71,050.00

Project Summary

Participating Items: \$887,750.00
 Non-Participating Items: \$71,050.00
Project Total: \$958,800.00

Request Summary

Grant Funds: \$467,040.00 52.61%
 Match: \$420,710.00 47.39%
Participating Costs: \$887,750.00 100.00%

Schedule

Project Type: Construction

Milestones

Date

1. Plans and Estimate Complete: 05/19/2023
2. Grade Inspection Package submitted to MDOT: 12/12/2023
3. Right of Way Certified: 12/12/2023
4. Matching Funds Certified: 01/16/2024

5. Project Listed on Approved TIP/STIP: 02/10/2024
 6. Advertisement Start Date: 03/17/2024
 7. Construction Letting Date: 05/05/2024
 8. Construction Start Date: 06/15/2024
 9. Construction End Date: 11/15/2024

Will this project be paired with any future construction projects? No

Additional comments about the project schedule:

Environment/Community

1. Check all that apply:

- | | | |
|--|---|--|
| <input type="checkbox"/> ROW/Construction Access Permit | <input type="checkbox"/> Recreational Lands | <input checked="" type="checkbox"/> State Historic Preservation Office Clearance |
| <input checked="" type="checkbox"/> Inland Lakes or Streams Permit | <input type="checkbox"/> Tree Removal | <input type="checkbox"/> Contaminated Sites |
| <input checked="" type="checkbox"/> Wetlands Permit | <input type="checkbox"/> Endangered Species | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> Floodplains Permit | <input type="checkbox"/> Coastal Zone | <input type="checkbox"/> Other |

Please describe:

The bridge spans the Paint Creek, one of Michigan's premier cold-water streams. We expect to apply for and received a joint EGLE permit. A threatened and endangered species assessment was conducted in the project area in 2022. The project was evaluated for the presence or likely presence of MNFI documented species. Based on the site assessment findings by ASTI Environmental, the proposed project will not impact any documented protected species or natural community. Additionally, a mussel reconnaissance survey was also completed in 2022. Although Paint Creek has appropriate substrate and is classified by MDNR as Group 2, no evidence of lives mussels were found during the survey. The Michigan Department of Natural Resources has confirmed that no additional mussel survey activities will be required for this project. The bridge is nearly 100 years old, but is not listed in the register of historic places. We expect to get clearance from SHPO. We are unaware of any contamination at the site and do not expect to remove any trees.

2a. Describe the anticipated impact of the project on adjacent property owners, your efforts to inform them of the project, and responses to these efforts:

We do not expect any negative impact of the project on adjacent property owners. A public hearing notice was printed in two local newspapers and promoted on social media. Adjacent property owners were notified about the project and the public hearing via certified mail. Public input was received on the project and this application at Paint Creek Trailways Commission and Rochester City Council meetings held on February 13th and 21st after the application was made available for review on three websites, social media, and at the trail office and Rochester City Hall.

2b. Is property acquisition necessary? No

(Select all that apply and describe below.)

- | | | |
|--|---|--|
| <input type="checkbox"/> Donation | <input type="checkbox"/> Willing Seller | <input type="checkbox"/> Appraisal Completed |
| <input type="checkbox"/> Purchase Option | <input type="checkbox"/> Purchase Agreement | |

Please describe:

3a. How did you facilitate stakeholder engagement in the development of this project concept and what stakeholders were involved?

The project has been included in two recreation master plans. Local stakeholders were involved during the planning process. The Paint Creek Trailways Commission's current Recreation Master Plan lists replacement of Bridge 31.7 is listed as an Action Item. Public input was invited through several methods, including accessible information on the Trailways Commission website and social media accounts, a Master Plan survey that was completed by 958 people, an open house for trail stakeholders and formal public hearings.

Public input was received on the project and this grant application at Paint Creek Trailways Commission and Rochester City Council meetings held on February 13th and 21st after the application was made available for review on three websites, social media, and at the Trailways Commission office and Rochester City Hall. In addition to the public hearing notice printed in the local newspaper, the meeting was advertised at five municipal locations, two public libraries, and at the Paint Creek Trailways Commission office in satisfaction of the Michigan Open Meetings Act.

Letters of support for the project were received from our stakeholders and members of the public and have been uploaded for your review.

3b. Describe the stakeholder input you received. How did this input help shape this project concept?

We received letters of support from our organizational stakeholders and several residents. Our organizational stakeholders understood our justification of need and confirmed that our renovation of this bridge was necessary, and would have a positive impact on the communities and trail operations.

The project has also received support from non-profit, business, and user group organizations. Support from these groups for the project will be demonstrated with letters of support from Dinosaur Hill Nature Preserve (which is located adjacent to the bridge site), Polly Ann Trail Management Council, Clinton River Watershed Council, Trout Unlimited, Oakland County Trails, Water & Land Alliance, Friends of the Paint Creek Trail, Older Person's Commission, Six Rivers Land Conservancy, RARA, and the Lake Orion and Rochester DDAs.

Residents who spoke at our public hearings had the following comments: TBD - will be included after public hearing.

As part of the Paint Creek Trailways Commission's application to the Michigan DNR Spark grant program, it solicited feedback on the project from several area physical therapists and individuals who work directly with the disability community. Based on feedback currently received, trail staff plans to discuss with our engineers the feasibility of adding a hand rail at an accessible height along the bridge to allow people in wheelchairs with the ability to stand to use it for support in order to observe the Paint Creek. We will also work with our engineering firm to ensure that the transition from the trail surface to bridge surface is as seamless as possible and look into potential non-slip surfaces and/or surfaces that don't promote moss/algae/mold growth. The Trailways Commission anticipates that further features may be incorporated into the project's design following an in-person meeting with additional disability advocates scheduled for early this year.

4. If this project is identified in an adopted community, county, and/or region-wide plan, please describe (such as master plan, comprehensive plan, trail plan, downtown development plan, etc.):

This project is a critical element in reaching Goal 5: Continue to enhance the trail network in Rochester's 2019-2023 Parks & Recreation Master Plan (See page 56 at <http://rochestermi.org/DocumentCenter/View/2794>).

It is also a critical element in reaching several of the Goals and Objectives in Objective in the Paint Creek Trail's 2020-2024 Recreation Master Plan (See <http://paintcreektrail.org/wordpress/recreation-master-plan/>), including:

Objective 3: "Allow access for maintenance and emergency vehicles at designated locations on the trail while barring unauthorized motor vehicles" of Goal 2: Maintain Safety and Accessibility for All Trail Users. (Page 93)

Objective 8: "Ensure the safety of all bridges and all bridge approaches on the Trail" of Goal 2: Maintain Safety and Accessibility for All Trail Users. Included within this objective is the Action Item to "Replace Bridge 31.7 in the city of Rochester". (Page 94)

Objective 1: "Develop a stewardship program that optimizes the enjoyment of the Trail but protects adjacent natural areas and water resources" of Goal 3: Act as Good Stewards of the Trail by Maintaining Its Infrastructure and Preserving Its Natural Character, While Continuing to Facilitate Trail Users' Access. Included within this objective is the Action Item to "Work with other groups and stake-holders to maintain the integrity of Paint Creek and adjacent water resources via streambank stabilization projects". (Page 96)

5. Has your community adopted a Complete Streets policy?

No

a. What type of document is your policy? (Select all that apply.)

- | | | |
|-------------------------------------|--------------------------------------|--|
| <input type="checkbox"/> Policy | <input type="checkbox"/> Ordinance | <input type="checkbox"/> Capital Improvement Program |
| <input type="checkbox"/> Resolution | <input type="checkbox"/> Master Plan | <input type="checkbox"/> Other |

b. How does this project support this policy?

c. Describe what investment your community has made and/or activities you conducted to support your complete Streets policy.

Maintenance

1. What agency is responsible for operation and maintenance of the completed project and what source of funds will be used?

See attached Intergovernmental Agreement for the Paint Creek Trail which describes how the four member municipalities, including the city of Rochester, collaborate to improve, manage, and operate the Paint Creek Trail. Improvements and maintenance projects are funded and performed by the municipality in which they are located. See attached Reaffirmation of Understanding of Maintenance Responsibilities and In-Kind Services which shows the collaboration among the five trail communities to provide maintenance and operational support of the Paint Creek Trail.

The city of Rochester funds the improvements, operation, and maintenance of their 0.6 miles of Paint Creek Trail. Rochester's 2022-2023 budget for these services will total \$26,128 and is paid from the city's Facilities and Grounds Maintenance Fund.

2. Describe anticipated maintenance needs by task. (Indicate frequency of maintenance and estimated annual cost.)

Please see attached Maintenance Plan in the Documents section.

This bridge requires almost no maintenance during the life of the bridge. Once materials are delivered to the site, the speed of construction is relatively quick as the bridge is prefabricated, and the design eliminates piers within the waterway, thus eliminating the logjams that currently occur.

The attached maintenance plan includes details regarding the renovated bridge's annual maintenance cost and potential rehabilitation costs. The plan also lists the projected total life cycle cost including the design/construction, maintenance and rehabilitation of the bridge over its 75-year expected life.



Application Summary

Date: 2/7/23

Page: 1 of 1

Grant Number: 2023037

Grant Type: TA

Description

Section	Applicant	Project Name	MPO	Let Date
01	Rochester	Paint Creek Trail Bridge 31.7 Renovation	Southeast Michigan Council of Governments	05/05/2024

Budget

Section	Grant Funds	Match Amount	Match Percentage	Total	Match Source
01	\$467,040.00	\$420,710.00	47.39%	\$887,750.00	MNRTF Grant - \$300,000.00, City of Rochester - \$120,710.00
Total:	\$467,040.00	\$420,710.00	47.39%	\$887,750.00	



Paint Creek Trailways Commission
Application for Temporary Use Permit

Name of Applicant/Organization:

Eastside Racing Company

Address: 430 Nesbit

City/State/Zip: Rochester Hills MI 48309

Phone: (248) 321-9813 Fax: ()

Type of Organization:

☒ For-Profit ☐ Non-Profit with 501(c)(3) status ☐ Unofficial Non-Profit or Informal Fundraising Group

Contact Person Name:

Deanna Skelcy

Address: 430 Nesbit

City / State / Zip Code: Rochester Hills, MI 48309

Phone: (248) 321-9813 Fax: ()

Email Address: deeskelcy@gmail.com

1. Name of Event or Project: Train To Trails Half Marathon

2. Is this the first time your event will be held on the Trail? ☒ Yes ☐ No

If not, when was the last time your event was held on the Trail? _____

3. Describe intended use: Our planned start is near the Paint Creek Cider Mill. Runners will start the race at 8:30am in waves 1-2 min apart. The route will go through Rochester and intersect with the Clinton River trail. This is a point-point event with the finish at Stony Creek Metropark

4. Date of Event: 9-10-2023

5. Rain Date (if any): rain or shine

Start Time: 8:00 am End Time: 1:00 pm *will be setting course signage prior to 8am on race day.
Mark Skelcy 248-321-9814

6. Onsite Contact, Day of the Event: Deanna Skelcy (248) 321-9813

7. Is entire Trail (from Rochester to Lake Orion) to be used for event or project? If not, specify nearest cross streets to start and end points.

Start will be near Gallagher Rd. The route will leave the PCT at the intersection of the Clinton River Trail heading east towards Macomb Orchard Trail.

Specific Detail on Route or Locations: If attaching map or drawing, check this box: ☒

We will have a more detailed route closer to the event.

8. How many participants are expected? 400

9. Signs/Banners/Advertising on the Trail? ☒ Yes ☐ No

(All trail signage and locations must be approved by the Trailways Commission)

10. Applicant is required to complete and return the "Paint Creek Trail Temporary Use Permit Report Form" to the Commission within 30 days after the approved event.
11. The Paint Creek Trail is a non-motorized trail. If motorized access is absolutely required, please contact the Trail Manager.

TERMS of the PERMIT

1. The permit is issued for the dates and times listed above and for the purposes authorized and for no others. THE PERMIT CAN BE TERMINATED BY REPRESENTATIVES OF THE TRAILWAYS COMMISSION AT ANY TIME, WITHOUT NOTICE AND WITHOUT CAUSE. The permit holder agrees that in the event his/her permit is terminated, he/she will leave the Trail property and will have no claim against the Commission or any of its representatives.
2. The permit holder agrees and understands that this permit is not and shall not create a lease, easement, or other rights not specifically identified in this document. No changes are allowed unless submitted and approved in writing. THE PERMIT HOLDER CANNOT ASSIGN THIS PERMIT TO ANY ONE ELSE.
3. The Commission shall not be liable to the permit holder or anyone authorized under the permit for any loss, injury, or damage to persons or property while they are on or around trail property. All motor vehicles approved for use must be insured. The permit holder agrees to hold the Commission, governments, and representatives harmless and shall indemnify and defend them from all losses, injury, damage, or claims by anyone for any reason caused by or growing out of the use of this permit or activities authorized by this permit.
4. The permit holder must conform to all federal, state, and local laws, ordinances, rules and regulations. The permit holder may be required to obtain other governmental permits, or authorization of neighboring property owners, and if so, must do so at his/her own expense.
5. Notices, if any are needed, shall be sufficient if mailed by ordinary mail to the permit holder at the address above.
6. Permit holder or organization representative shall show identification and copy of the permit if requested to do so by a law enforcement officer, community representative, or commission representative.

THE UNDERSIGNED AGREES TO THE ABOVE TERMS:

Signature of Applicant/Contact: 

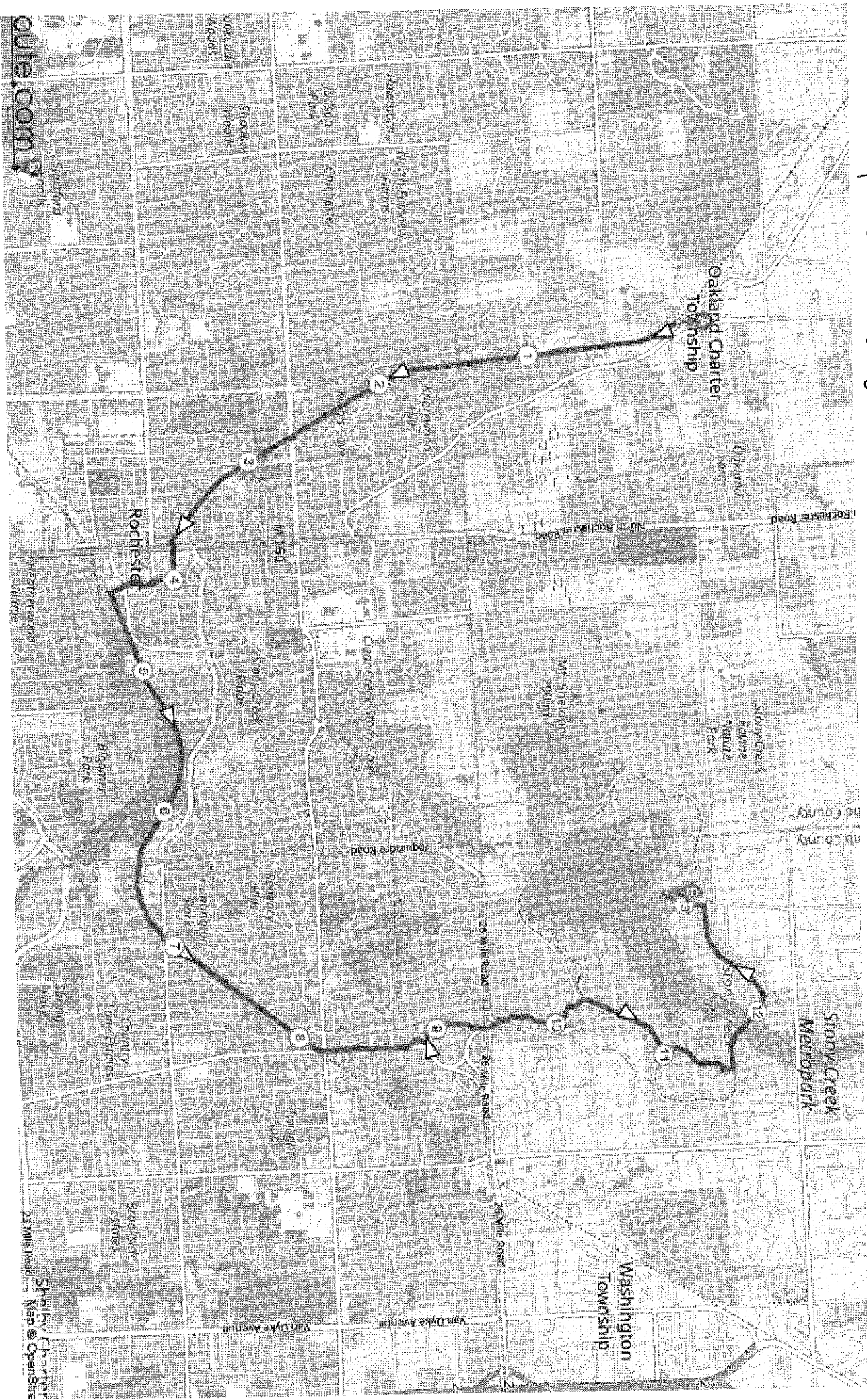
Print or Type Name: Deanna Skelley Date: 1-9-2023

Return Completed Application and supporting documents to:

**Paint Creek Trailways Commission
Attn: Temporary Permit Processing
4393 Collins Road
Rochester, MI 48306**

For Internal Use Only	
Date Application Received: <u>1/18/23</u>	Amount Received: <u>30.00</u>
Date Insurance Received: _____	_____
Commission Approval Date: _____	or Administrative Approval Date: _____
Website: _____	Social Media: _____

Train + 0 Trails Map -proposed



2/21/2023
PCTC Licensing Committee Report

Oakland Township beach encroachment - EGLE has followed up with responsible party and instructed them to restore the property via proper procedure. The sub-committee will continue to follow the progress.

Bald Mountain Bridge Connection - Because the subcommittee has many concerns and questions about this project, we have requested a presentation of the project by Nowak and Fraus at the meeting. Among the concerns that remain are:

- Mitigating erosion where the bridge abutment meets the trail
- Potential safety hazards of abrupt connection with the trail including limited sightlines, appropriate space for passing traffic on the trail adjacent to the structure and potential railings
- Appropriate signage
- Best practices implemented in the bridge design specifically where it connects to the trail

A recommendation regarding approval of the project may be possible after the presentation. A temporary use permit for construction will be necessary for review and approval. The subcommittee does recommend a license agreement to cover maintenance and liability if the project is approved.

Dillman and Upton - The subcommittee has the following recommendations for the commission to consider:

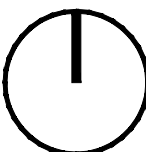
- That the Commission make a written request that Dillman & Upton conform to our License Agreement, including removing all hazardous material from PCTC property, including but not limited to the fuel tank that is currently partially on PCTC property, and that the hazardous material be removed in accordance with all local, state, and federal requirements.
- No additional structure on Trailways property, but encouragement of additional native natural plantings as a buffer between the parking lot and trailway proper.

Consumer's Energy Additional Gas Line Placement and Existing Pipe Abandonment - The subcommittee was unable to find clear documentation of an agreement for the existing pipeline to be abandoned. The subcommittee recommends:

- An application for limited use permit for construction
- A license agreement for the new pipeline including fair market value fee, specifics regarding location, size, material and content of pipeline, conditions for abandonment/discontinuing use (removal and restoration of the property)
- Request to remove pipeline to be abandoned, and restore property to original state (as we would do for any other structure on trail if an agreement was terminated). If this request is denied, an updated license agreement, or addendum to the new agreement, including the pipeline that will remain on trailways property.

General Recommendation of the Subcommittee - All license agreements should be reviewed and updated this year, including a fair market value fee structure when appropriate with the intent to put them in place 2024.



 **EXISTING SITE PLAN**
SCALE: 1/32" = 1'-0"



Oak Street Design

1135 N. Oak St.
Rochester, MI 48307

jenna@oakstdesign.com
Phone: (248) 891-1629

project

**Dillman & Upton
Site Layout**

607 Woodward Ave.
Rochester, MI 48307

zoning

ZONING: SETBACKS: FRONT YARD - xx'
REAR YARD - xx'
SIDE YARD - MIN. 0' (TOTAL 00')
MAX. HT.: 00' FROM GRADE TO ROOF MIDSPAN

LOT COVERAGE	
LOT SIZE	= 0000 SF
MAX. % COVERAGE	x 30%
MAX. ALLOWABLE	= 0000 SF
BUILDING FOOTPRINT	= 000 SF
COVER DECKS	= 000 SF
GARAGE	= 000 SF
ACTUAL COVERAGE	= 0000 SF

SQUARE FOOTAGE	
MAIN LEVEL EXIST.	= XXXX SF
SECOND LEVEL EXIST.	= XXX SF
TOTAL EXIST. SQ FT	= XXXXX SF
MAIN LEVEL PRPSD.	= XXXX SF
SECOND LEVEL PRPSD.	= XXX SF
TOTAL PROPOSED SQ FT=	XXXX SF

sheet title

EXISTING PLAN

date

11.26.2022	ARCH. SITE PLAN
12.06.2022	SITE PLAN DIMENSIONS
01.13.2023	SITE PLAN REV.

NOTE:
CONTRACTOR MUST VERIFY ALL
DIMENSIONS & NOTIFY DESIGN TEAM
OF ANY DISCREPANCIES



PROPOSED SITE PLAN
SCALE: 1/32" = 1'-0"



Oak Street Design

1135 N. Oak St.
Rochester, MI 48307

jenna@oakstdesign.com
Phone: (248) 891-1629

project

**Dillman & Upton
Site Layout**

607 Woodward Ave.
Rochester, MI 48307

zoning

ZONING: FRONT YARD - xx'
REAR YARD - xx'
SIDE YARD - MIN. 0' (TOTAL 00')
MAX. HT.: 00' FROM GRADE TO ROOF MIDSPAN

LOT COVERAGE	
LOT SIZE	= 0000 SF
MAX. % COVERAGE	x 30%
MAX. ALLOWABLE	= 0000 SF
BUILDING FOOTPRINT	= 000 SF
COVER DECKS	= 000 SF
GARAGE	= 000 SF
ACTUAL COVERAGE	= 0000 SF

SQUARE FOOTAGE	
MAIN LEVEL EXIST.	= XXXX SF
SECOND LEVEL EXIST.	= XXX SF
TOTAL EXIST. SQ FT	= XXXXX SF
MAIN LEVEL PRPSD.	= XXXX SF
SECOND LEVEL PRPSD.	= XXX SF
TOTAL PROPOSED SQ FT	= XXXXX SF

sheet title

PROPOSED PLANS

date

11.26.2022	ARCH. SITE PLAN
12.06.2022	SITE PLAN DIMENSIONS
01.13.2023	SITE PLAN REV.

NOTE:
CONTRACTOR MUST VERIFY ALL
DIMENSIONS & NOTIFY DESIGN TEAM
OF ANY DISCREPANCIES





4393 Collins Road
Rochester, MI 48306
(248) 651-9260
Paintcreektrail.org

MEMO

To: Commissioners, Alternates, & Staff
From: Melissa Ford, Trail Manager
Subject: Bald Mountain Recreation Area Bridge to Paint Creek Trail
Date: February 16, 2023

The Licensing Commission sent additional questions to the DNR and Nowak & Fraus regarding the Bald Mountain bridge project. The following responses in red are from Steve Sutton, Nowak & Fraus:

- Where is the access for heavy equipment, what heavy equipment will be needed? **The DNR will be creating an access to the site from the west, thru their property. There will also be a need to gain access to the east side, using the trail, beginning at the Royal Oak archer access to Orion Road.**
- Where will the side rails for the bridge be placed? **Right now, the design does not include side rails that project in the north-south direction. We can review with DNR if the commission would like to see side rails for the bridge.**
- Will there be visual safety features for the 3-way intersection with the trail? Will DNR pay for signage? **If the commission would like a cautionary sign placed, please let us know what size, text and style to propose.**
- What best practices were considered for the intersection and angle at which the bridge enters the trail? **The bridge was placed at a perpendicular alignment to the existing trail. This alignment was the most feasible for construction and promotes safe stopping to change directions from bridge and trail users.**
- During construction, how many days will the trail be disrupted? Will full closure be needed? **The expectation is that the trail would require full closure to allow for grading, foundation construction and restoration. This timeframe is expected to last for 30 days. To otherwise allow for trail traffic during this work would be difficult to safely maintain.**
- What will be in place to address safety while there is construction on the trail? **We would propose using Type III barricades, 50' north and south of the bridge intersection, with advance warning signs 100' north and south noting "Trail Closed Ahead".**
- Where will the concrete pad meet the trail? Does it abut the limestone? Best practices for this? **The concrete pads at each end of the bridge will extend 5' and generally terminate at the edge of existing gravel. This is shown on our sheet C-3. These pads would include recessed edges so that there wouldn't be exposed edges in the future as gravel moves around.**

Additionally, the Licensing Committee requested that Nowak & Fraus submit any further renderings that it had of the bridge, such as how it would fit into the site. Specifically, what the sight lines would be from the bridge and from the trail, and how the concrete apron will be integrated into the trail or its right of way. Those renderings follow this memo.



The **AASHTO EXPRESS**® bridge is a pre-engineered pedestrian steel truss bridge designed for owners, engineers and contractors who know "time is money." This standardized truss system designed in accordance with AASHTO and LRFD specifications provides stamped drawings in one (1) week after receipt of order and a bridge in six to eight (6-8) weeks or less, significantly reducing construction time. The speed, quality and value of **AASHTO EXPRESS**® bridges will ensure you receive the industry's best customer experience.

For over forty years, Contech's Truss Bridges have been known as premier steel truss structures - depended upon for strength and durability as well as aesthetic appeal and economical solutions.

Project Name: _____

Project City, State: _____

Project Application: _____

Client Name: _____



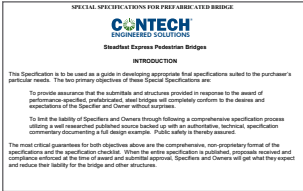
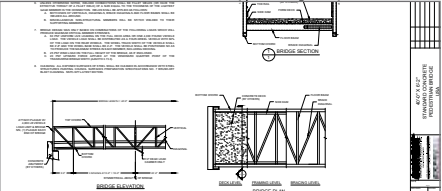

Client Firm: _____

Client Email: _____

Client Phone #: _____

Engineer's Estimate: _____

Select Your Bridge · Specify with Confidence · Satisfy Your Client

AASHTO COMPLIANT	1. SELECT	<input checked="" type="checkbox"/> Connector® Style Pedestrian Truss <input checked="" type="checkbox"/> Weathering Steel Finish <input checked="" type="checkbox"/> Horizontal Safety Rail System		
		Designed in accordance with AASHTO LRFD		
		Clear Width: <input type="checkbox"/> 6'** <input type="checkbox"/> 8' <input type="checkbox"/> 10' <input type="checkbox"/> 12' <input type="checkbox"/> 14' ** Only available in 40'-120' lengths		
		Length: <input type="checkbox"/> 40' <input type="checkbox"/> 50' <input type="checkbox"/> 60' <input type="checkbox"/> 70' <input type="checkbox"/> 80' <input type="checkbox"/> 90' <input type="checkbox"/> 100' <input type="checkbox"/> 110' <input type="checkbox"/> 120' <input type="checkbox"/> 130' <input type="checkbox"/> 140' <input type="checkbox"/> 150' <input type="checkbox"/> 160' <input type="checkbox"/> 170' <input type="checkbox"/> 180' ** 6' width only available with 40' - 120' lengths		
2. SPECIFY	3. SATISFY	Deck: <input type="checkbox"/> Pressure Treated Wood <input type="checkbox"/> Cast-in-Place Concrete (by Others)		
		<div style="display: flex; justify-content: space-around;">   </div>		
		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input checked="" type="checkbox"/> Bid Drawings <input checked="" type="checkbox"/> Specification <input checked="" type="checkbox"/> 10-Year Limited Warranty <input checked="" type="checkbox"/> Estimate </div> <div style="width: 35%; text-align: center;">  </div> <div style="width: 30%; text-align: center;">  </div> </div>		
		<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <input checked="" type="checkbox"/> Stamped Drawings in One Week <input checked="" type="checkbox"/> Bridge Delivery in 6-8 Weeks of Approved Drawings <input checked="" type="checkbox"/> Bridge Installation Support <input checked="" type="checkbox"/> Cost-Effective Solution </div> <div style="width: 35%; text-align: center;">  </div> </div>		





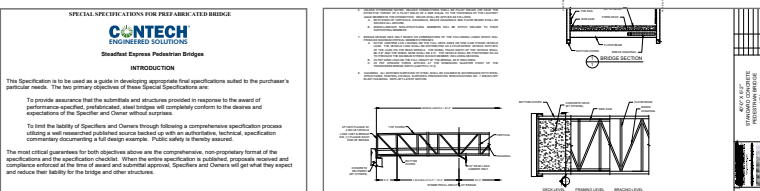



The **IBC EXPRESS**® bridge is a pre-engineered pedestrian steel truss bridge designed for owners, engineers and contractors who know "time is money." This standardized truss system designed in accordance with IBC (International Building Code) and AISC (American Institute of Steel Construction) specifications provides stamped drawings in three (3) business days after receipt of order and a bridge in six (6) weeks or less, significantly reducing construction time. The speed, quality and value of **IBC EXPRESS**® bridges will ensure you receive the industry's best customer experience.

For over forty years, Contech's Steadfast Bridges® have been known as premier steel truss structures - depended upon for strength and durability as well as aesthetic appeal and economical solutions.

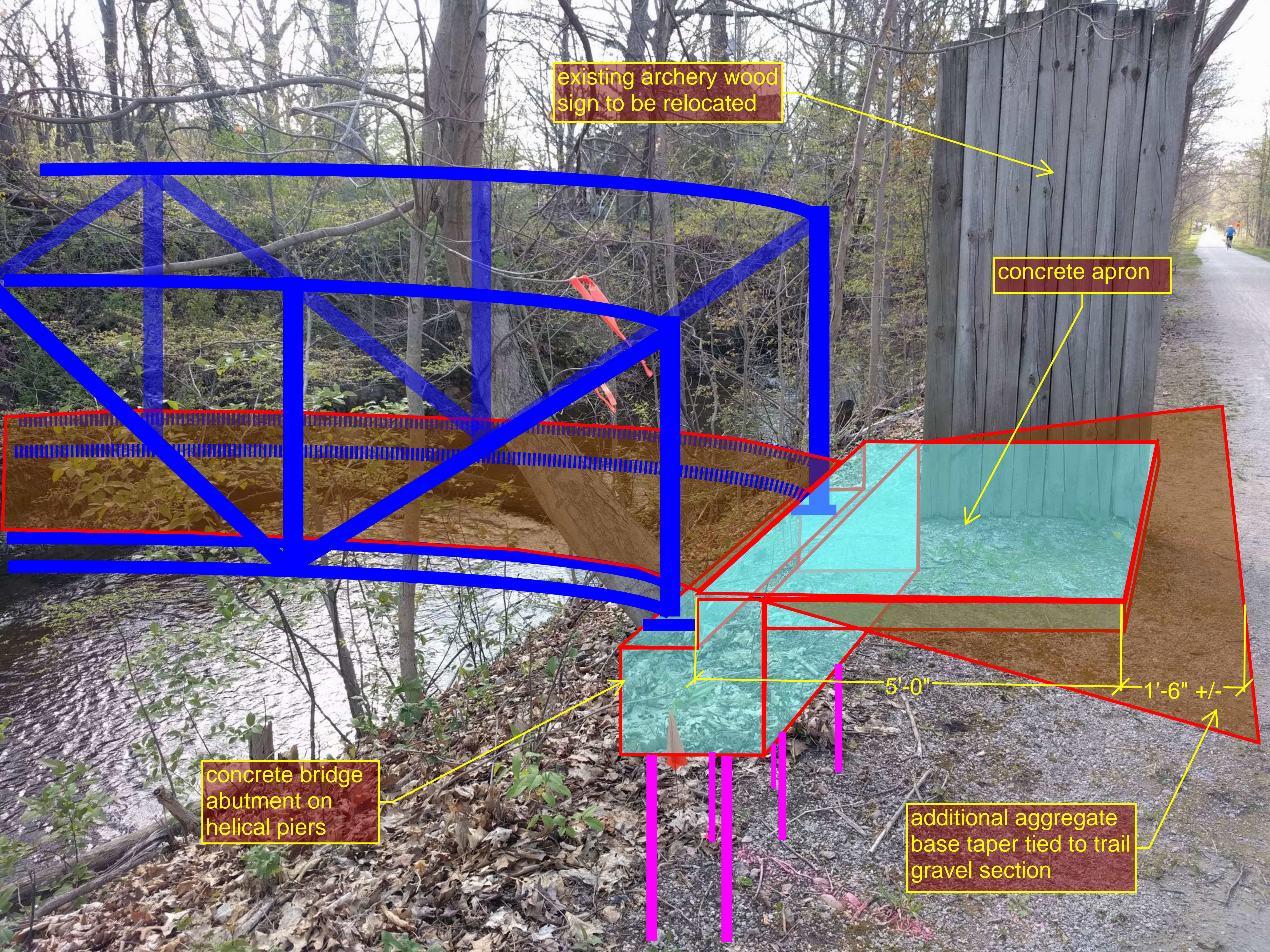
Project Name: _____
Project City, State: _____
Project Application: _____
Client Name: _____
Client Firm: _____
Client Email: _____
Client Phone #: _____
Engineer's Estimate: _____

Select Your Bridge · Specify with Confidence · Satisfy Your Client

IBC CODE COMPLIANT	1. SELECT	<input checked="" type="checkbox"/> Connector® Style Pedestrian Truss <input checked="" type="checkbox"/> Weathering Steel Finish	Designed in accordance with IBC & AISC		
		Clear Width: <input type="checkbox"/> 6' <input type="checkbox"/> 8' <input type="checkbox"/> 10' <input type="checkbox"/> 12'			
		Length: <input type="checkbox"/> 20' <input type="checkbox"/> 30' <input type="checkbox"/> 40' <input type="checkbox"/> 50' <input type="checkbox"/> 60' <input type="checkbox"/> 70' <input type="checkbox"/> 80' <input type="checkbox"/> 90' <input type="checkbox"/> 100'			
		Safety Rail: <input type="checkbox"/> Horizontal Safety Rails  <input type="checkbox"/> Vertical Picket Safety Rails 			
		Deck: <input type="checkbox"/> Pressure Treated Wood  <input type="checkbox"/> Cast-in-Place Concrete (by Others) 			
2. SPECIFY		<input checked="" type="checkbox"/> Bid Drawings <input checked="" type="checkbox"/> Specification <input checked="" type="checkbox"/> 10-Year Limited Warranty <input checked="" type="checkbox"/> Estimate			
	3. SATISFY	<input checked="" type="checkbox"/> Stamped Drawings in 3 Business Days <input checked="" type="checkbox"/> Bridge Delivery in 6 Weeks of Approved Drawings <input checked="" type="checkbox"/> Bridge Installation Support <input checked="" type="checkbox"/> Cost-Effective Solution			







existing archery wood
sign to be relocated

concrete apron

concrete bridge
abutment on
helical piers

additional aggregate
base taper tied to trail
gravel section

5'-0"

1'-6" +/-



Application for Limited Use Permit for Private Access to the Paint Creek Trail

Description of Limited Use Requested:

Limited use would include the need to utilize the trail for construction of the bridge and pathway repairs. Permanent use would include the bridge and landings within trail ROW.

Date Submitted: _____

Applicant: Steve Sutton on behalf of the MDNR - Bald Mountain

Mailing Address: 46777 Woodward Avenue City/Zip: 48342

Email Address: swsutton@nfe-engr.com Phone: 248-635-6571

Address or General Location: West side of trail, approximately 600' NW of Royal Oak Archers

Property

ID(s): _____

Reason for Request: Installation of pedestrian bridge crossing Paint Creek, for access into Bald Mountain State Recreation Area property

Application Submission Requirements:

- 1) Existing Site conditions;
- 2) Site Plan;
- 3) A landscape plan (if applicable)
- 4) Drawings of structures (if applicable)

Signature: Steven Sutton, P.E.
Date: _____

Digitally signed by Steven Sutton, P.E.
DN: C=US, E=swsutton@nfe-engr.com, O=NFE
Engineers, CN="Steven Sutton, P.E."
Reason: I agree to the terms defined by the
placement of my signature on this document
Date: 2022.12.30 10:04:26-05'00'

Please submit form with required
attachments to:

Paint Creek Trailways Commission
4393 Collins Road
Rochester, MI 48306

Or

Manager@paintcreektrail.org



Limited Use Permit Checklist

Paint Creek Trailways Commission (PCTC)

PROCEDURE

An application for a limited use permit shall be approved or denied within sixty (60) days from the date of its complete submission unless extended by the PCTC pursuant to a time waiver is granted to the applicant. Additional requirements are as follows:

A. Request for limited use permits shall be filed with the PCTC Manager on a PCTC application form. The request shall be considered as being completely submitted when all the information requirements are satisfied. In cases where an application is judged to be incomplete, the PCTC Manager or its designee shall, within fifteen (15) business days of the date of submission, notify the applicant, in writing, of what information must be provided for the application to be deemed completely submitted.

B. Upon receipt of a complete application, the PCTC Manager will submit the application to the Licensing committee. The Licensing committee will review the application, conduct a study (if deemed necessary or appropriate), and report its findings and make recommendations to the PCTC.

C. The PCTC shall consider possible effects of the proposed permit. It shall consider the following factors and it may consider other factors as well:

1. Whether the proposed use will be consistent with the specific policies and provisions of the PCTC and the character of the Paint Creek Trail.
2. Whether the proposed use is or will be compatible with present and future land uses of the area.
3. Whether the proposed use will conform with all performance standards contained within each City or Township's Code.
4. Whether the proposed use will be detrimental to or will promote the safety of trail users.

D. The PCTC and PCTC Manager shall have the authority to request additional information from the applicant.

E. Unless excused by the PCTC Chair, the applicant or a representative thereof shall appear before the PCTC in order to answer questions concerning the proposed request.

F. The PCTC shall approve, deny or request more information. The decision shall be entered in and made part of the permanent written record of the PCTC meeting.

G. The PCTC shall act upon the limited use permit within sixty (60) days from the date of submission of a complete application, unless an extension has been provided.

H. Upon receiving the report and recommendation of the Licensing Committee, the PCTC shall have the option to set and hold a public hearing if deemed necessary.

I. Approval of a request shall require passage by a majority vote of the PCTC.

J. Whenever an application for a limited use permit has been considered and denied by the PCTC, a similar application for a limited use permit affecting substantially the same property shall not be considered again by the PCTC for at least six (6) months from the date of its denial. If the second application is denied, a subsequent application affecting substantially the same property shall likewise not be considered again by the PCTC for an additional six (6) months from the date of the second denial unless a decision to reconsider such matter is made by a majority vote of the PCTC.

GENERAL PERFORMANCE STANDARDS

As may be applicable, the evaluation of any proposed limited use permit request shall be subject to and include, but not be limited to, the following general performance standards and criteria:

K. The site drainage system shall be subject to the review and approval of the City or Township Engineer if deemed necessary by the PCTC.

L. The landscaping appearance and functional design of the site shall not be so dissimilar to the existing area so as to cause a blighting influence.

M. The architectural appearance and functional design of any structure shall not be so dissimilar to the existing area so as to cause a blighting influence.

N. The use and site shall be in compliance with any federal, state county, or municipal law, code, ordinance, or regulation that are applicable and the Applicant shall obtain any related permits required by such government entity and provide the Licensing Committee and/or the PCTC with proof that such required permit(s) have been obtained..

O. Additional Stipulations. All conditions pertaining to a specific site are subject to change by the PCTC if the PCTC, upon investigation in relation to a formal request, finds that the general welfare and public betterment can be served as well or better by modifying or expanding the conditions set forth herein.

REVOCATION

The PCTC may, and may direct, the revocation of any limited use permit for cause upon determination that the actual use is not in conformance with the conditions of the permit, in an unsafe condition or is in continued violation of the Zoning Ordinance, City Codes, Township codes, or other applicable regulations. The PCTC shall direct the PCT Manager to notify the responsible person that they have an opportunity to explain why the permit should not be revoked. The PCT Manager shall provide the permit holder a copy of the proceedings and findings of the PCTC.

PERMIT MODIFICATIONS

Holders of a limited use permit may propose modifications to the permit at any time. No changes in the approved plans or scope of the limited use shall, however, be undertaken without prior approval of those changes by the PCTC.

EXPIRATION

Unless the PCTC specifically approves a different time when action is officially taken on the request, limited use permits which have been issued shall expire on the one year anniversary of the date the permit was issued without further action by the PCTC if the permit holder does not commence the authorized use within the one year period. However, before the expiration of the one (1) year period; the applicant may apply for an extension thereof by submitting a request for extension. The request for extension shall state facts showing a good faith attempt to complete or utilize the use permitted in the limited use permit. A request for an extension not exceeding one (1) year shall be subject to the review and approval of the PCT Manager. Should a second extension of time or any extension of time longer than one (1) year be requested by the applicant, it shall be presented to the PCTC for a decision.

SITE IMPROVEMENT PERFORMANCE AGREEMENT

Prior to PCTC consideration of a limited use permit request, the applicant, as may be applicable, shall guarantee to the PCTC the completion of all improvements as shown on the approved plan and as required by the limited use permit approval.

Information Requirement Checklist

The information required for all limited use permit applications generally consists of the following items and shall be submitted unless waived by the PCT Manager. Plans must be submitted in both hard copy and electronically.

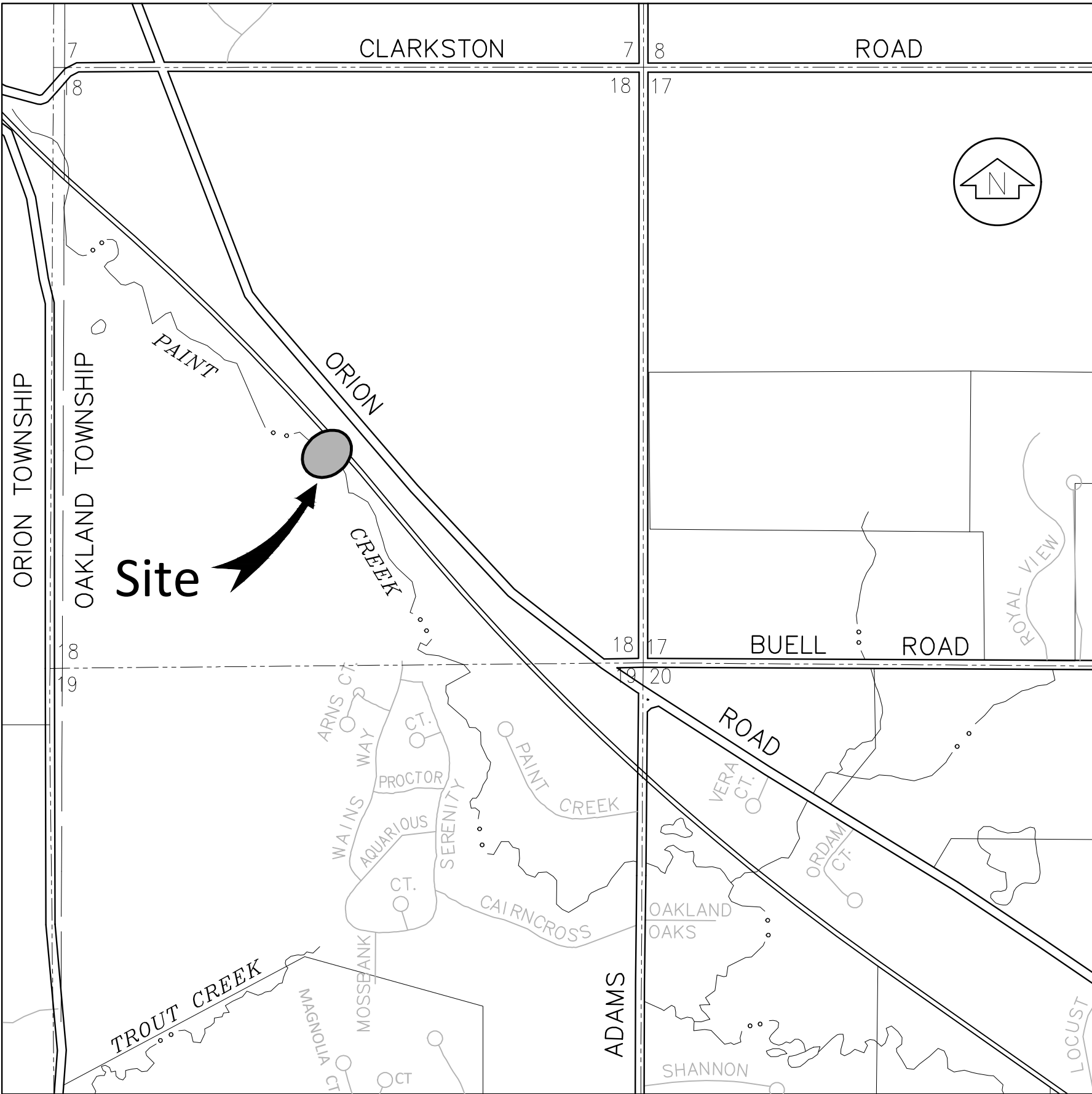
A. Site boundaries, buildings and structures shall be identified on site with a survey, depicting the following:

- _____ 1. Scale of plan (engineering scale only, at one (1) inch equals fifty (50) feet or less.
- _____ 2. North point indication.
- _____ 3. Existing boundaries with lot dimension and area.
- _____ 4. Existing site improvements.
- _____ 5. All encroachments.
- _____ 6. Easements of record.
- _____ 7. Legal description of the property.
- _____ 8. Ponds, lakes, springs, rivers or other waterways bordering on or running through the subject property.

Prepared For:
MICHIGAN DEPARTMENT OF TECHNOLOGY, MANAGEMENT & BUDGET
IN COOPERATION WITH THE
MICHIGAN DEPARTMENT OF TRANSPORTATION

FOR THE
PAINT CREEK BRIDGE
POLLY ANN & PAINT CREEK TRAIL SYSTEM
BALD MOUNTAIN RECREATION AREA

MDOT JOB NUMBER: 216903 DTMB FILE NO.: 751/2101017 .BDW



Location Map
N.T.S.

Project Location:
South 1/2 of Section 18, T.4N., R. 11 E.
Oakland Township, Oakland County, Michigan

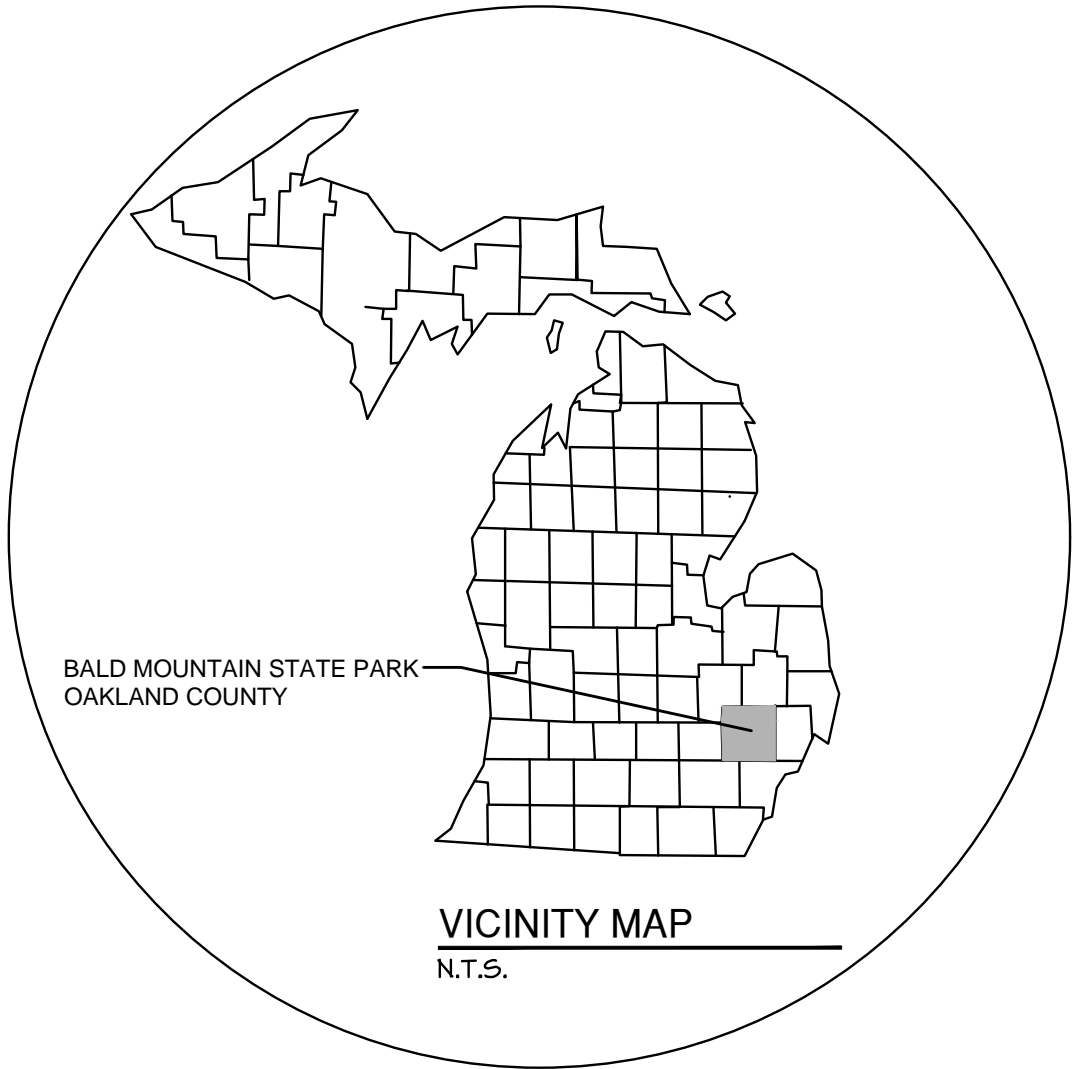
PROJECT PERMITS

SOIL EROSION CONTROL PERMIT
CONTRACTOR SHALL OBTAIN SESC PERMIT FROM THE DTMB PRIOR TO COMMENCEMENT OF ANY SOIL DISTURBANCE ON THE PROJECT.

EGLE/USACE JOINT PERMIT
A PERMIT FROM THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES AND ENERGY IS REQUIRED FOR PROPOSED DISTURBANCE WITHIN PAINT CREEK EMBANKMENT AND INSTALLATION OF PEDESTRIAN FOOTBRIDGE OVER THE STREAM/RIVER. CONTRACTOR SHALL COORDINATE WITH EGLE TO OBTAIN THIS PERMIT.

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (DLARA)
PERMITS FROM DLARA ARE REQUIRED FOR INSTALLATION OF PROPOSED FOOT BRIDGE. CONTRACTOR SHALL COORDINATE WITH DLARA TO OBTAIN THIS PERMIT, PAY ALL FEES AND COORDINATE INSPECTIONS.

RIGHT-OF-WAY PERMIT
A PERMIT FROM THE PAINT CREEK TRAILWAYS COMMISSION (PCTC) IS REQUIRED FOR ALL WORK PROPOSED WITHIN THE TRAIL RIGHT-OF-WAY. CONTRACTOR SHALL COORDINATE WITH THE PCTC TO OBTAIN THIS PERMIT, PAY ALL FEES AND COORDINATE INSPECTIONS.



THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD AND SPECIFICATIONS FOR CONSTRUCTION, THE 2020 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES THE AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 6TH EDITION, AND THE AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, 2020, 4TH EDITION.

REVISIONS:

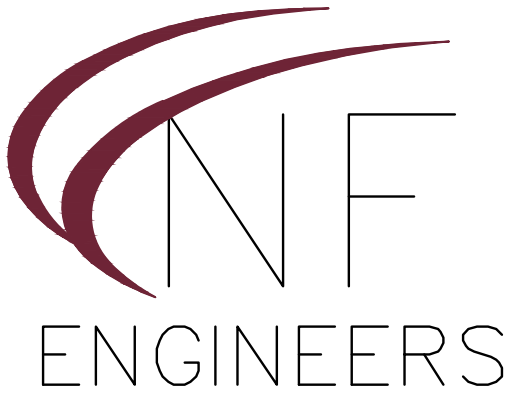
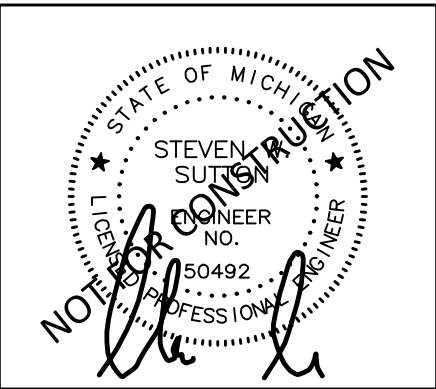
Civil Engineer

Nowak & Fraus Engineers
46777 Woodward Avenue
Pontiac, Michigan 48342

Contact: Mr. Steven Sutton, P.E.
Phone: (248) 332-7931
Fax: (248) 332-8257
E-mail: swsutton@nfe-engr.com



NFE JOB #E791-02



Civil Engineers
Land Surveyors
Land Planners

NOWAK & FRAUS ENGINEERS
46777 Woodward Ave.
Pontiac, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-8257
WWW.NOWAKFRAUS.COM



FLOOD HAZARD NOTE
THE LIMITS OF A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AND THE LIMITS OF 100-YEAR FLOODWAY HAVE BEEN DELINEATED ON THE SURVEY PER THE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 26125C0239F BEARING AN EFFECTIVE DATE OF 09-29-2006.

TREE SURVEY
A FULL TREE SURVEY WAS NOT COMPLETED FOR THIS SITE. THE CONTRACTOR SHALL FIELD VERIFY THE LIMITS OF ALL PROJECTED AREAS, FOR AN UNDERSTANDING OF THE TREE AND BRUSH COVERAGE.

TOPOGRAPHIC SURVEY NOTES
ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.
UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.
THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER.

BORING LEGEND

SB#1 B-1 TEST BORING

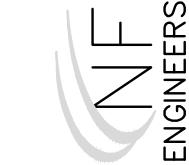
SURFACE LEGEND

EXISTING 100-YEAR FLOODWAY
EXISTING CONCRETE PAVEMENT
EXISTING GRAVEL SURFACE

LEGEND

MANHOLE EXISTING SANITARY SEWER
HYDRANT GATE VALVE EXISTING WATERMAIN
MANHOLE CATCH BASIN EXISTING STORM SEWER
EX. R. Y. CATCH BASIN
UTILITY POLE GUY POLE EXISTING BURIED CABLES
OVERHEAD LINES
EXISTING GAS MAIN
LIGHT POLE
SIGN
SRINKLER VALVE
EX. TREE TAG

CIVIL ENGINEER
Civil Engineers
Land Surveyors
Land Planners
46777 Woodward Avenue
Pentice, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-8257



STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATES FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR

11/17/2022	Phase 500 - 90% Review
05/10/2022	EGLE JPA Permit
08/27/2021	EGLE JPA Permit
08/08/2021	Phase 500 - 50% Review
DATE	Review

PROJECT DESCRIPTION
PAINT CREEK BRIDGE
POLLY ANN & PAINT CREEK TRIAL SYSTEM
BALD MOUNTAIN RECREATIONAL AREA

BOUNDARY AND TOPOGRAPHIC
SURVEY

PROJECT NO. 75121017.BDW	INDEX	PK	SWS
PCA	DRAWN BY	PK	
	DESIGNED BY	PK	
	JO/ENG BY	SWS	

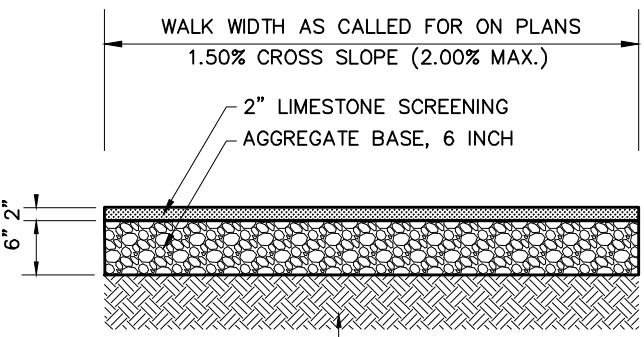
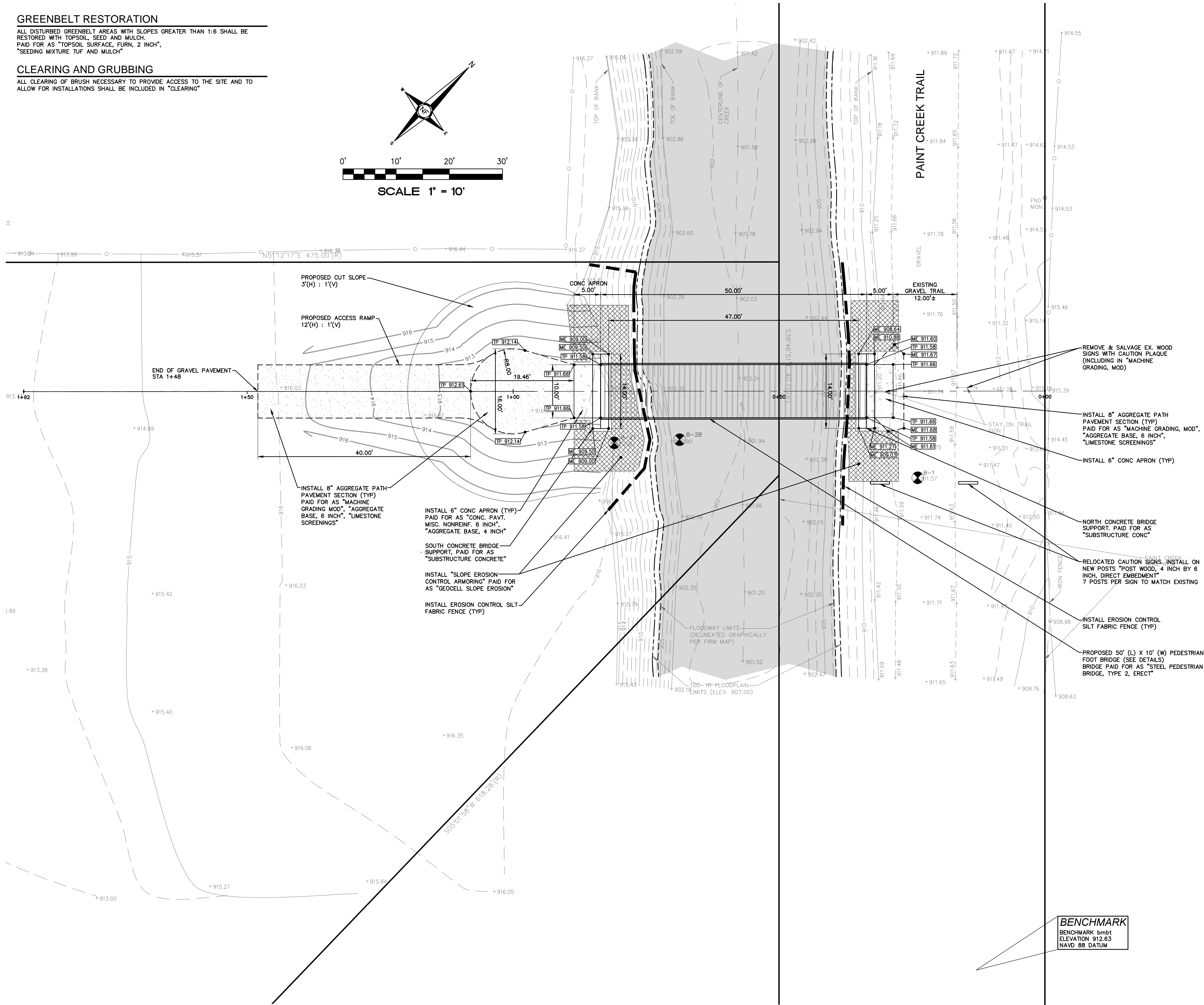
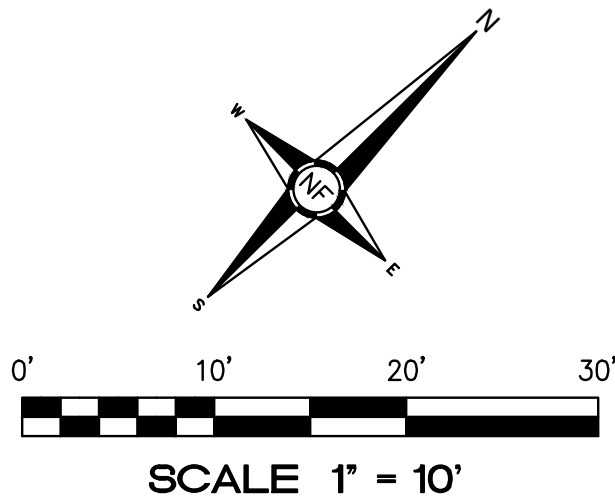
C-2

GREENBELT RESTORATION

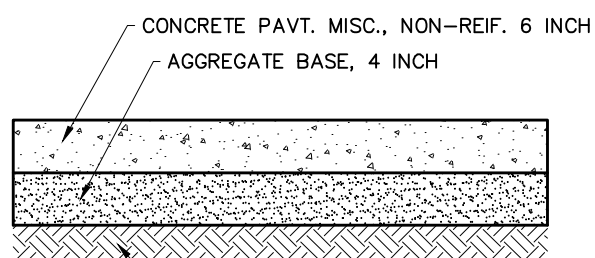
ALL DISTURBED GREENBELT AREAS WITH SLOPES GREATER THAN 1:6 SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH.
PAID FOR AS "TOPSOIL SURFACE, FURN, 2 INCH",
"SEEDING MIXTURE TUF AND MULCH"

CLEARING AND GRUBBING

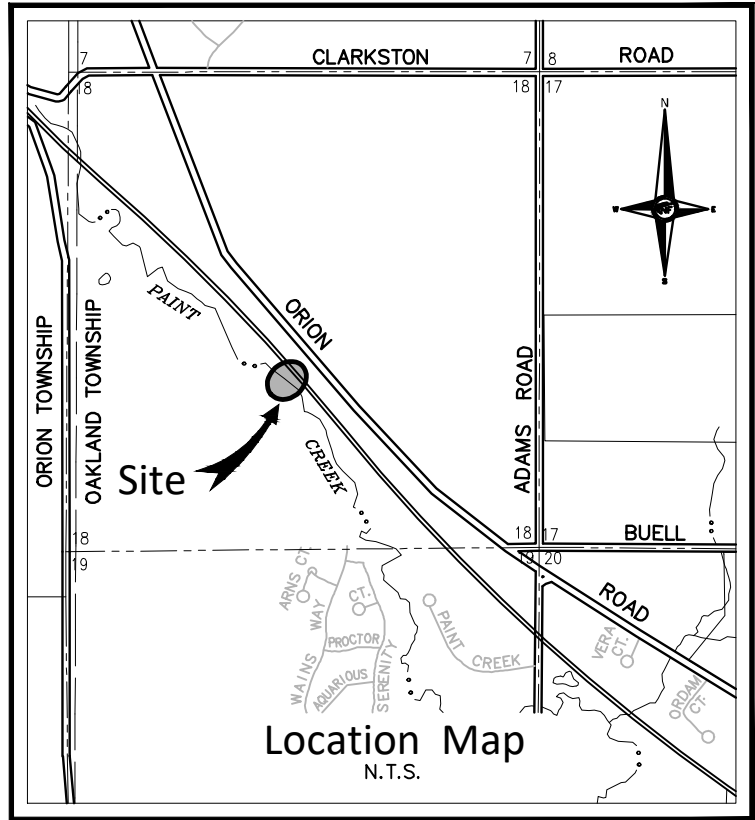
ALL CLEARING OF BRUSH NECESSARY TO PROVIDE ACCESS TO THE SITE AND TO ALLOW FOR INSTALLATIONS SHALL BE INCLUDED IN "CLEARING"



AGGREGATE PATHWAY SECTION
N.T.S.



6" NON-REINFORCED CONCRETE SECTION
N.T.S.



CIVIL ENGINEER

46777 Woodward Avenue
Poncha, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-8257

Civil Engineers
Land Surveyors
Land Planners

ENGINEERS

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATES FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR

11/17/2022	Phase 500 - 90% Review
05/10/2022	EGL E JPA Permit
08/27/2021	EGL E JPA Permit
08/06/2021	Phase 500 - 50% Review
DATE	Review

PROJECT DESCRIPTION
PAINT CREEK BRIDGE
POLLY ANN & PAINT CREEK TRIAL SYSTEM
BALD MOUNTAIN RECREATIONAL AREA

SITE, GRADING AND
SOIL EROSION PLAN

PROJECT NO. 75121017.BDW	INDEX	PK	DESIGNED BY	SWS
PCA	DRAWN BY	PK	JO/ENG BY	

C-3

FLOOD HAZARD NOTE

THE LIMITS OF A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AND THE LIMITS OF 100-YEAR FLOODWAY HAVE BEEN DELINEATED ON THE SURVEY PER THE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 26125C0239F BEARING AN EFFECTIVE DATE OF 09-29-2006.

PAVING LEGEND

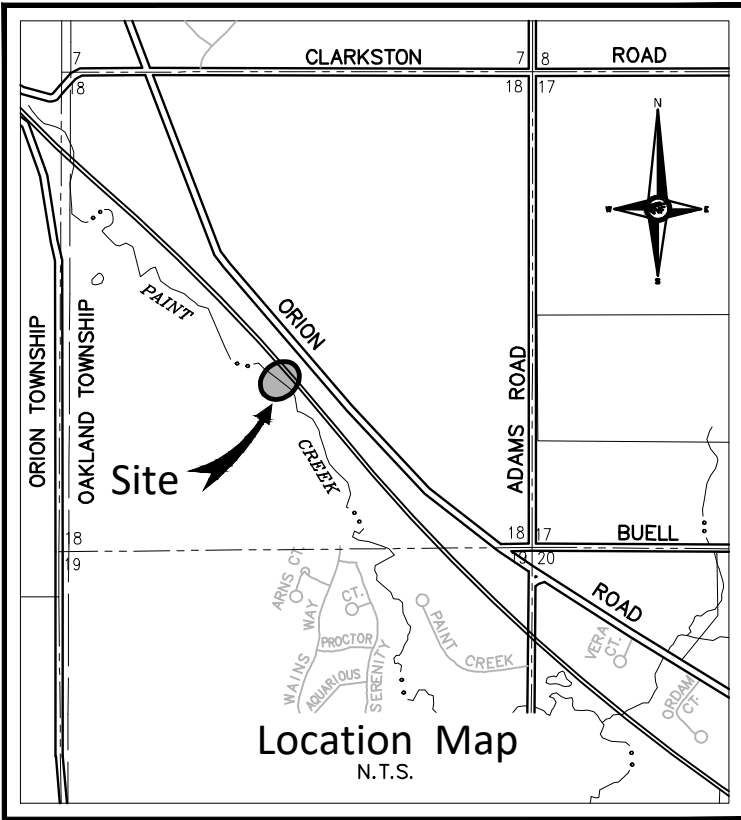
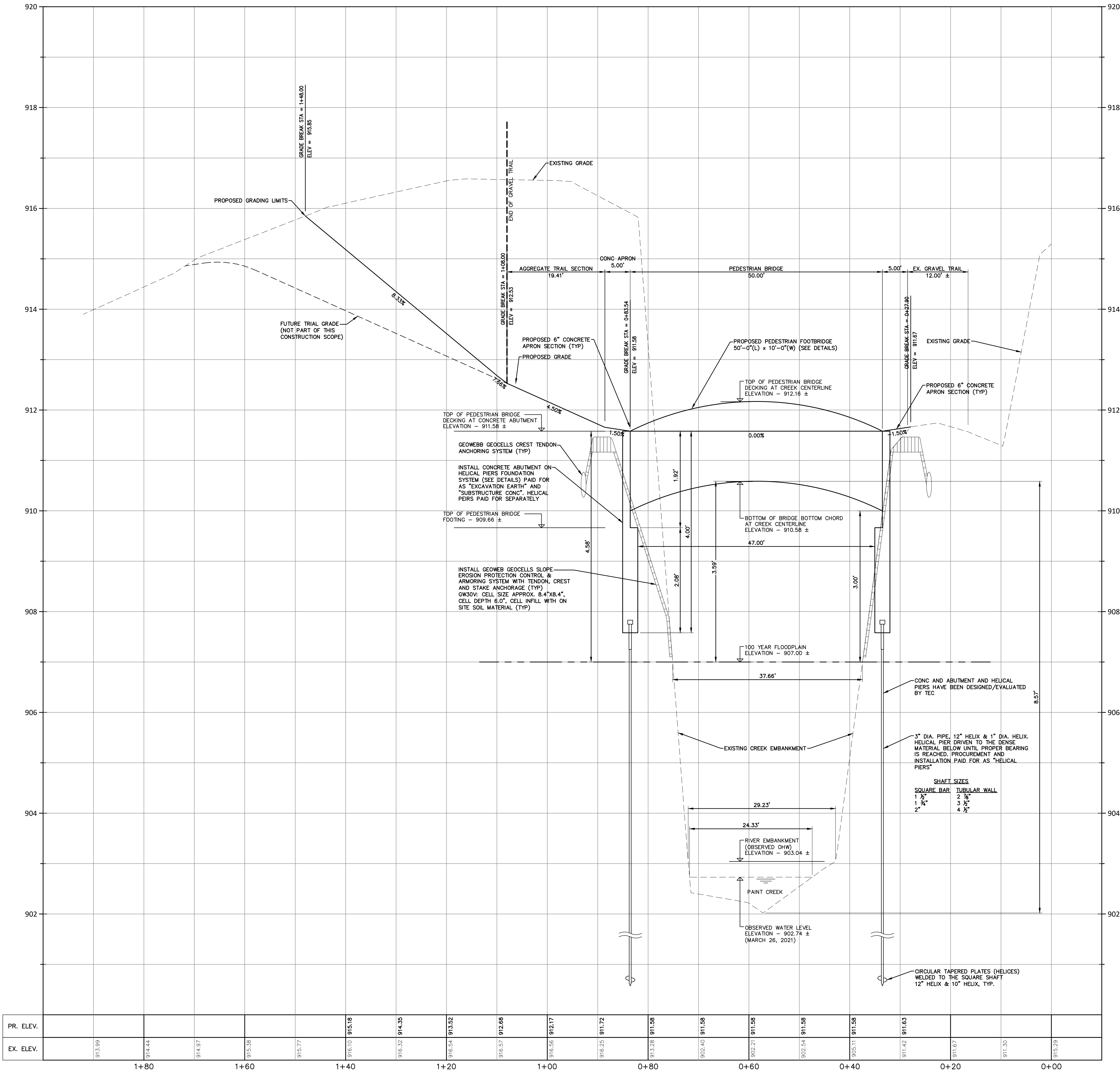
	PROPOSED CONCRETE PAVEMENT
	PROPOSED GRAVEL PAVEMENT

LEGEND

MANHOLE	EXISTING SANITARY SEWER
HYDRANT	SAN. CLEAN OUT
GATE VALVE	EXISTING WATERMAIN
MANHOLE CATCH BASIN	EXISTING STORM SEWER
EX. R. Y. CATCH BASIN	EXISTING BURIED CABLES
UTILITY POLE	OVERHEAD LINES
GUY WIRE	SIGN
EXISTING GAS MAIN	PR. SANITARY SEWER
PR. SANITARY SEWER	PR. WATER MAIN
PR. WATER MAIN	PR. STORM SEWER
PR. STORM SEWER	PR. R. Y. CATCH BASIN
PR. R. Y. CATCH BASIN	PROPOSED LIGHT POLE
PR. TOP OF CURB ELEVATION	PR. GUTTER ELEVATION
PR. TOP OF WALK ELEVATION	PR. TOP OF P.V.M.T. ELEVATION
PR. TOP OF P.V.M.T. ELEVATION	FINISH GRADE ELEVATION
FINISH GRADE ELEVATION	MATCH EX. GRADE

ARCHEOLOGICAL NOTE

IF ANY ARTIFACTS ARE DISCOVERED DURING THE CONSTRUCTION PROCESS ALL WORK IS TO STOP AND THE OWNER'S REPRESENTATIVE/PROJECT MANAGER SHALL BE NOTIFIED. ARTIFACTS OR ARCHEOLOGICAL MATERIALS ARE DEFINED AS: ABORIGINAL ANTIQUITIES AND OTHER RECORDS ON ANTIQUITY, INCLUDING MOUNDS, MINES, EARTHWORKS, VILLAGE SITES, CAMP SITES, BURIALS, HUMAN OR OTHER BONES, SHELLS, STONE IMPLEMENTS, BONE OR COPPER IMPLEMENTS, POTTERY OR SHARD OF POTTERY, OR OTHER OBJECTS RELATING TO NATIVE AMERICAN OCCUPATION; AND MORE MODERN ARTIFACTS, SUCH AS FORTS, RELICS AND OTHER ARTIFACTS RELATING TO THE HISTORIC, COLONIAL, TERRITORIAL, AND EARLY STATEHOOD PERIODS.



0' 10' 20' 30'
SCALE 1" = 10' (H), 1" = 1' (V)

CIVIL ENGINEER
NF ENGINEERS
46777 Woodward Avenue
Pentagon, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-8257

STATE OF MICHIGAN
DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATES FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR

11/17/2022	Phase 500 - 90% Review	
05/10/2022	EGL - JPA Permit	
08/27/2021	EGL - JPA Permit	
08/08/2021	Phase 500 - 50% Review	
DATE	Review	

PROJECT DESCRIPTION
PAINT CREEK BRIDGE
POLLY ANN & PAINT CREEK TRIAL SYSTEM
BALD MOUNTAIN RECREATIONAL AREA

PAINT CREEK CROSSING
SECTIONS & DETAILS

PROJECT NO. 75121017.BDW				
INDEX				
PCA				
DRAWN BY				
DESIGNED BY				
JO/ENG BY				

FLOOD HAZARD NOTE
THE LIMITS OF A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AND THE LIMITS OF 100-YEAR FLOODWAY HAVE BEEN DELINEATED ON THE SURVEY PER THE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 26125C0239F BEARING AN EFFECTIVE DATE OF 09-29-2006.

SOIL BORING INFORMATION
A SOILS REPORT HAS BEEN INCLUDED IN THE PROJECT SPECIFICATION BOOK.

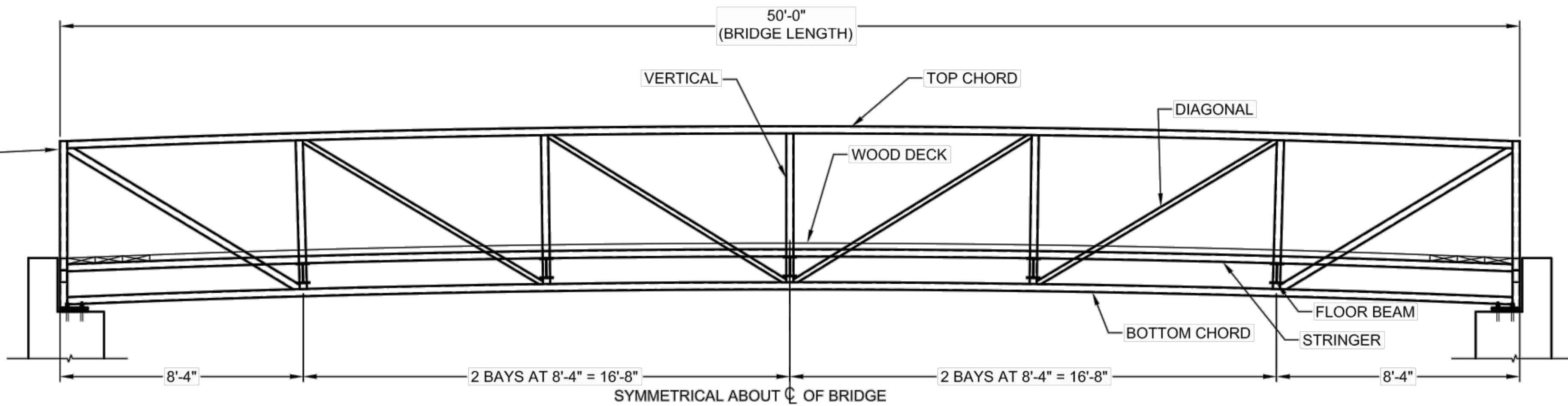
C-4

C:\USERS\CBRANDON\DESKTOP\FINAL CHECK\DIVISION\WOOD\97' X 10' WOOD H SALES.DWG 10/27/2015 3:07 PM

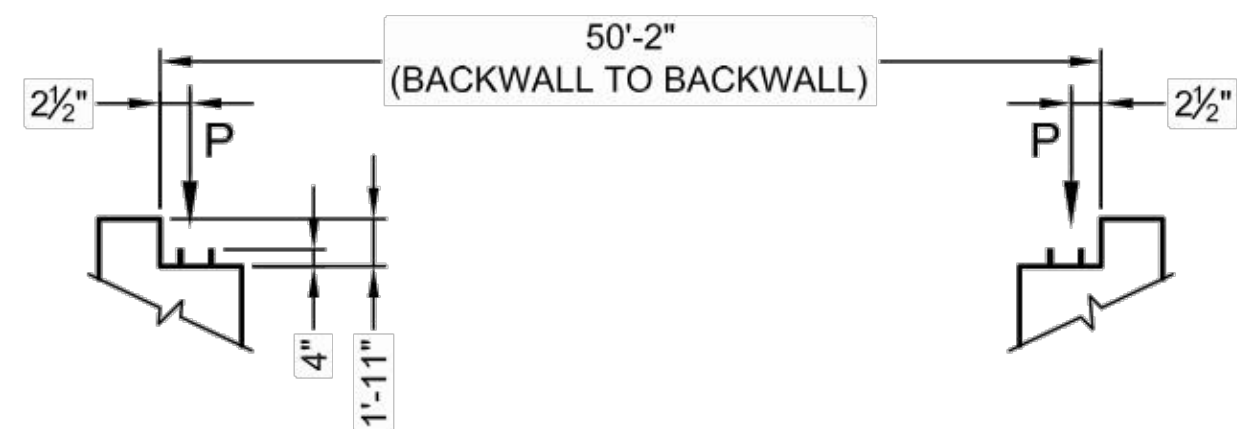
GENERAL NOTES

- DESIGN STRESSES ARE IN ACCORDANCE WITH "STANDARD SPECIFICATION FOR HIGHWAY BRIDGES" & "GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES" BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) 2009 EDITION.
- BRIDGE MEMBERS ARE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ENHANCED ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING, AND ASTM A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL SHAPES ($F_y=50,000$ PSI).
- BRIDGE DECKING NOMINAL 3 x 12 SELECT STRUCTURAL FIR ($F_b=1,400$ PSI min.) OR 3 x 10 SOUTHERN YELLOW PINE ($F_b=1,300$ PSI min.). ALKALINE COPPER QUATERNARY (ACQ) TO A 0.4 PCF RETENTION OR TO REFUSAL OR AZOLE BIOCIDES (MCA) TO A 0.06 PCF RETENTION OR TO REFUSAL.
- THE GAS METAL ARC WELDING PROCESS OR FLUX CORED ARC WELDING PROCESS WILL BE USED. WELDING TO BE IN ACCORDANCE WITH AWS D1.1.
- ALL TOP AND BOTTOM CHORD SHOP SPLICES TO BE COMPLETE PENETRATION TYPE WELDS. WELD BETWEEN TOP CHORD AND END VERTICAL SHALL BE AS DETAILED.
- UNLESS OTHERWISE NOTED, WELDED CONNECTIONS SHALL BE FILLET WELDS (OR HAVE THE EFFECTIVE THROAT OF A FILLET WELD) OF A SIZE EQUAL TO THE THICKNESS OF THE LIGHTEST GAGE MEMBER IN THE CONNECTION. WELDS SHALL BE APPLIED AS FOLLOWS:
 - BOTH ENDS OF VERTICALS, DIAGONALS, AND FLOOR BEAMS SHALL BE WELDED ALL AROUND.
 - BRACE DIAGONALS WILL BE WELDED ALL AROUND.
 - MISCELLANEOUS NON-STRUCTURAL MEMBERS WILL BE STITCH WELDED TO THEIR SUPPORTING MEMBERS.
- BRIDGE DESIGN WAS ONLY BASED ON COMBINATIONS OF THE FOLLOWING LOADS WHICH WILL PRODUCE MAXIMUM CRITICAL MEMBER STRESSES.
 - 90 PSF UNIFORM LIVE LOADING ON THE FULL DECK AREA OR ONE 10,000 LB VEHICLE LOAD. THE LOAD SHALL BE DISTRIBUTED AS A FOUR-WHEEL VEHICLE WITH 80% OF THE LOAD ON THE REAR WHEELS. THE WHEEL TRACK WIDTH OF THE VEHICLE SHALL BE 6'-0" AND THE WHEEL BASE SHALL BE 10'-0". THE VEHICLE SHALL BE POSITIONED SO AS TO PRODUCE THE MAXIMUM STRESSES IN EACH MEMBER, INCLUDING DECKING.
 - 35 PSF WIND LOAD ON THE FULL HEIGHT OF THE BRIDGE, AS IF ENCLOSED.
 - 20 PSF UPWARD FORCE APPLIED AT THE WINDWARD QUARTER POINT OF THE TRANSVERSE BRIDGE WIDTH (AASHTO 3.15.3).
- CLEANING: ALL EXPOSED SURFACES OF STEEL SHALL BE CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACES PREPARATION SPECIFICATIONS NO. 7 BRUSH-OFF BLAST CLEANING. SSPC-SP7-LATEST EDITION.
- MINIMUM MATERIAL THICKNESS OF 1/4" ON ALL STRUCTURAL MEMBERS.

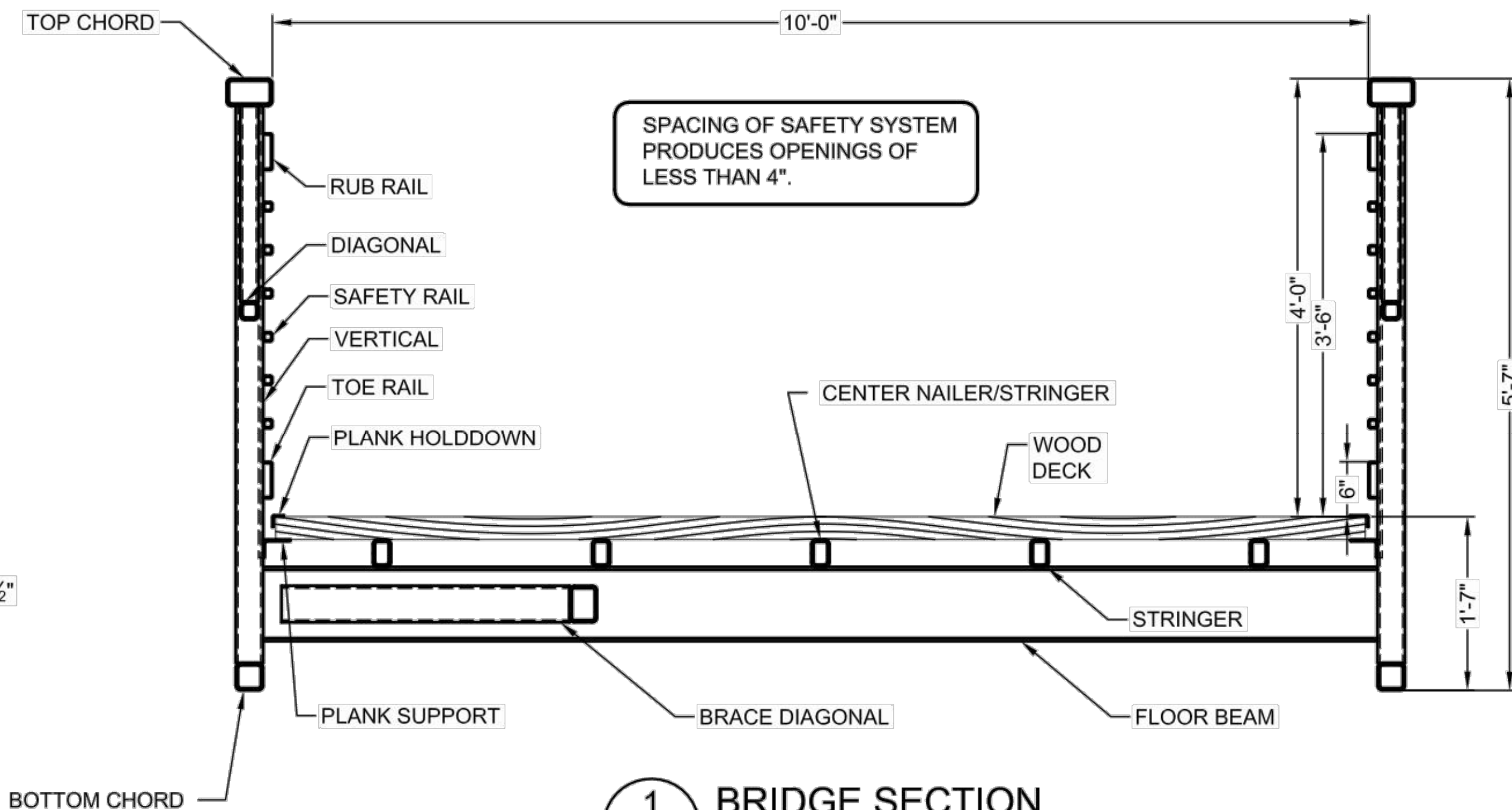
ATTACH PLAQUE W/
10,000 LB VEHICLE
LOAD LIMIT AND
SERIAL NO.
"?????-10". (1)
PLAQUE EACH END
OF BRIDGE.



BRIDGE ELEVATION



ANCHOR BOLT ELEVATION



1
2
BRIDGE SECTION

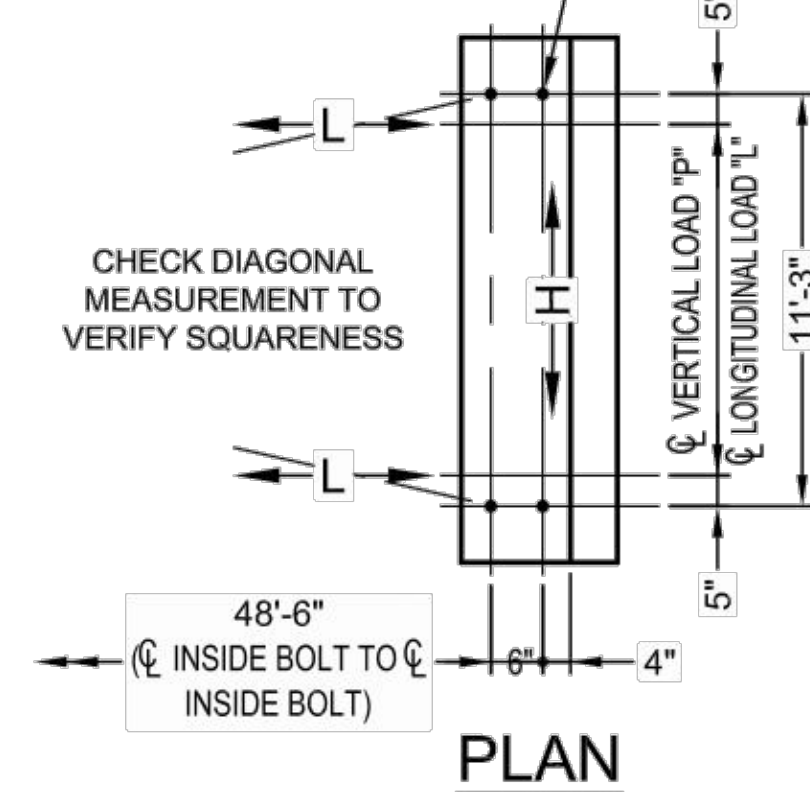
COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

BRIDGE REACTIONS	+ DOWNWARD LOAD - UPWARD LOAD		
	P (LBS)	H (LBS)	L (LBS)
DEAD LOAD	3,925		
UNIFORM LIVE LOAD	11,250		
VEHICLE LOAD	5,000		
WIND UPLIFT 20 PSF		-3,940	
WIND LEEWARD		-1,313	
WIND	±1,485	4,890	
THERMAL			590

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
"L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE)

BRIDGE LIFTING WEIGHT: 15,700 LBS

(8) Ø3/4" ASTM F1554 GRADE 36 GALV. ANCHOR RODS W/(2) NUTS AND (1) 2" O.D. WASHER EACH. (BY OTHERS)



PLAN

CONTECH
FABRICATION
DRAWING



The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC and its affiliates. It is not to be used, reproduced, or modified in any manner without the prior written consent of Contech Engineered Solutions LLC. Contech Engineered Solutions LLC expressly disclaims any liability or responsibility for such use.		If discrepancies between the supplied information and the information on this drawing are identified, these discrepancies must be reported to Contech Engineered Solutions LLC immediately. Contech Engineered Solutions LLC shall not be responsible for any design, fabrication, or construction errors or omissions, or for any incomplete or inaccurate information supplied by others.	
DATE	9/19/2014	DESIGNED:	XXX
DATE		DRAWN:	CLH
DATE		CHECKED:	XXX
DATE		APPROVED:	XXX
DATE		PROJECT NO.:	
DATE		SEQUENCE NO.:	
DATE		SHEET:	1 OF 3

50'-0" X 10'-0"
STANDRAD WOOD DECK
PEDESTRIAN BRIDGE
CITY, STATE



DATE:	9/19/2014
DESIGNED:	XXX
DRAWN:	CLH
CHECKED:	XXX
APPROVED:	XXX
PROJECT NO.:	
SEQUENCE NO.:	
SHEET:	1 OF 3

CIVIL ENGINEER
Civil Engineers
Land Surveyors
Land Planners
ENGINEERS

46777 Woodward Avenue
Pentice, WI 48542-5032
Tel. (248) 332-7931
Fax. (248) 332-8257

DATE	REVIEW
11/17/2022	Phase 500 - 90% Review
05/10/2022	EGL - JPA Permit
08/27/2021	EGL - JPA Permit
08/06/2021	Phase 500 - 50% Review

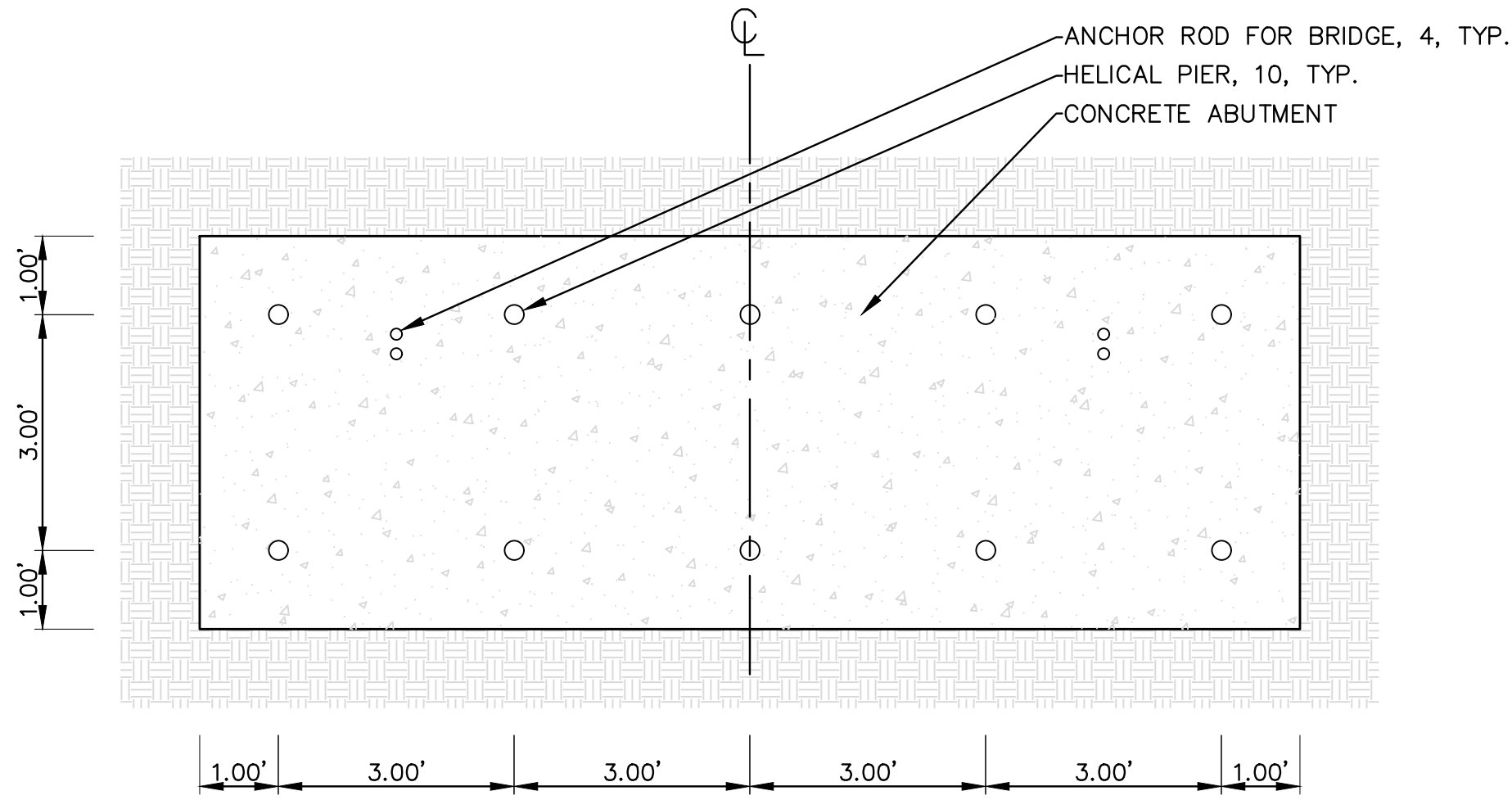
PROJECT DESCRIPTION
PAINT CREEK BRIDGE
POLLY ANN & PAINT CREEK TRIAL SYSTEM
BALD MOUNTAIN RECREATIONAL AREA

PEDESTRIAN BRIDGE DETAILS

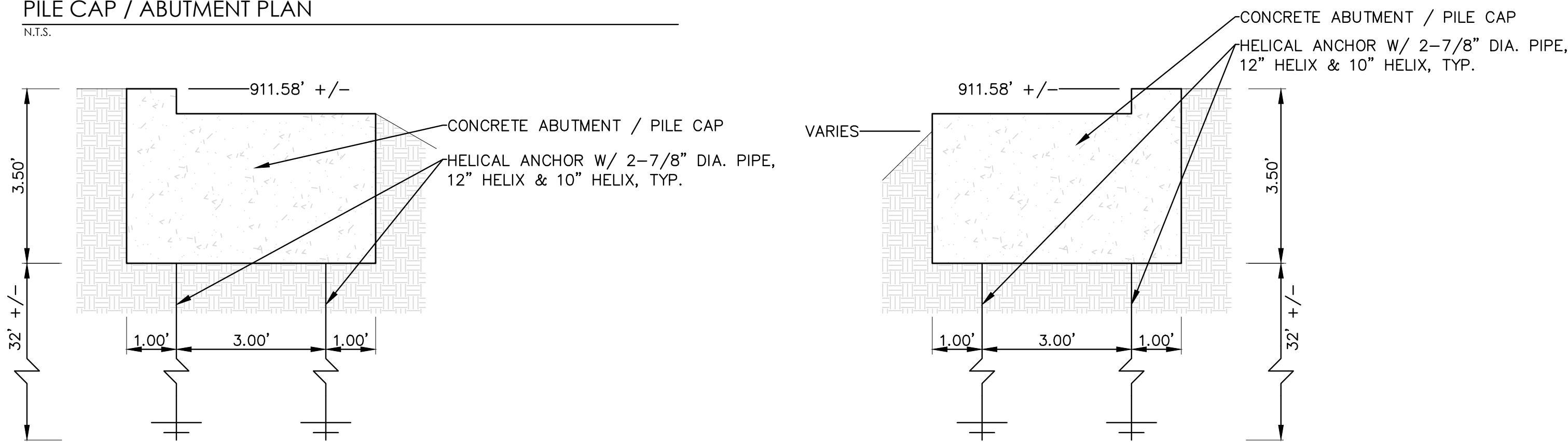
PROJECT NO.	75121017.BDW
INDEX	
PCA	
DRAWN BY	PK
DESIGNED BY	JO/ENG BY
SWS	

C-5

PEDESTRIAN BRIDGE
PROCUREMENT, AND INSTALLATION OF THE PRE-MANUFACTURED BRIDGE SHALL BE PAID FOR AS "STEEL PEDESTRIAN BRIDGE, TYPE 2 ERECT."
EXCAVATION AND PLACEMENT OF CONCRETE FOUNDATIONS AND HELICAL PIERS ARE PAID UNDER SEPARATE ITEMS.



PILE CAP / ABUTMENT PLAN
N.T.S.



SECTION THROUGH SOUTHWEST ABUTMENT
N.T.S.

SECTION THROUGH NORTHEAST ABUTMENT
N.T.S.



GEOWEB Geocells tied into the ground with stakes, tendons and filled with granular infill material to stabilize embankment around the area of the bridge abutments. Helical piles can be drilled through.

CIVIL ENGINEER

Civil Engineers
Land Surveyors
Land Planners

46777 Woodward Avenue
Pewaukee, WI 48442-5032
Tel. (248) 332-7931
Fax. (248) 332-8257

ENGINEERS

STATE OF MICHIGAN

DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATES FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
ADAM P. LACH, RA, DIRECTOR



DATE	REVIEW
11/17/2022	Phase 500 - 90% Review
05/10/2022	EGLLE JPA Permit
08/27/2021	EGLLE JPA Permit
08/06/2021	Phase 500 - 50% Review

PROJECT DESCRIPTION

POLLY ANN & PAINT CREEK TRIAL SYSTEM
BALD MOUNTAIN RECREATIONAL AREA

PEDESTRIAN BRIDGE
FOUNDATION AND SLOPE
STABILIZATION DETAILS

PROJECT NO. 75121017.BDW	INDEX	PKA	DRAWN BY	PK	DESIGNED BY	PK	SWS

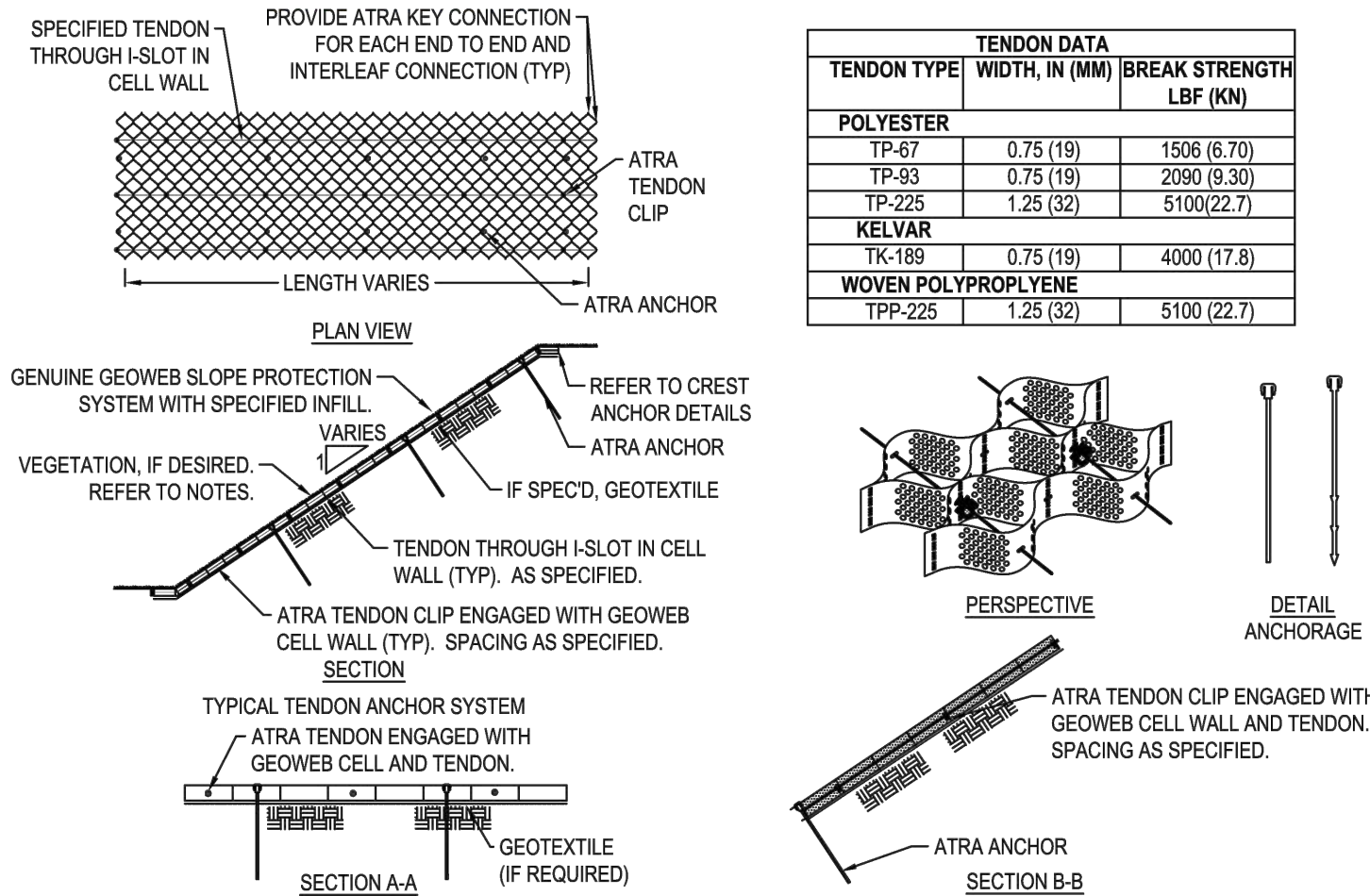
C-6

PRESTO



GEOSYSTEMS

PRESTO GEOSYSTEMS
P.O. BOX 2399, 670 NORTH PERKINS ST.
APPLETON, WI 54912-2399
TOLL FREE: 1-800-548-3424
PHONE: (920) 738-1336
www.prestogeo.com



- MANUFACTURER NOTES:
1. THE TYPE AND QUANTITY OF TENDONS AND ATRA® TENDON CLIPS SHALL BE AS SPECIFIED.
 2. THE GEOWEB CELLS SHALL BE FILLED WITH THE SPECIFIED MATERIAL (TOPSOIL, STONE, OR CONCRETE) AND SHALL BE SUITABLE TO WITHSTAND THE APPLICABLE HYDRAULIC CONDITIONS.
 3. THE GEOWEB SECTIONS SHALL BE ANCHORED TO RESIST SLIDING DUE TO DRIVING AND HYDRAULIC FORCES.
 4. IF VEGETATION IS DESIRED, PROVIDE AN EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT IF THERE IS A POTENTIAL FOR EROSION PRIOR TO ESTABLISHING VEGETATION.
 5. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.
 6. REFER TO THE GENERAL DETAIL DRAWINGS FOR ANCHOR DETAILS.
- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADDdetails.com/info AND ENTER REFERENCE NUMBER 013-038

GEOWEB® SLOPE STABILIZATION
GEOWEB SLOPE PROTECTION WITH TENDON/ATRA ANCHORAGE

013-038

PROTECTED BY COPYRIGHT © 2020 CADDDETAILS.COM LTD.

REVISION DATE 03/03/2020

CADDdetails.com

PRESTO



GEOWEB®
CHANNEL PROTECTION SYSTEM
TECHNICAL OVERVIEW

Geoweb Cell Sizes and Depths

Optimum cell size and depth is discussed below in sections covering Infill Selection.

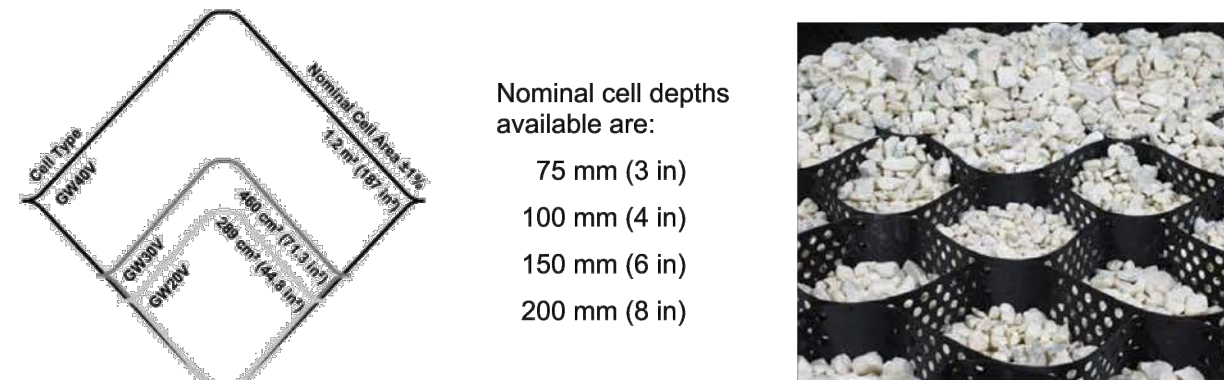


Figure 2 Geoweb Cell Dimensions

Geotextile Underlayer

A non-woven needle-punched geotextile underlayer is recommended as a soil filter and drainage medium in channel lining installations. The edges of the geotextile should be dug into the subgrade at the perimeter of the protection area to prevent uncontrolled flow beneath the lining system. Conventional geotextile selection criteria, that accounts for specific subgrade soil types and ground water conditions, should be applied. Refer to AASHTO-AGC-ARBTA Task Force 25 Specifications for Geotextiles for examples.

Integral Polymeric Tendons

The range of standard tendons that can be incorporated into Geoweb channel protection systems are shown in Table 1.

In addition to providing a connection element for ground anchors and crest anchorage of steep side-slopes, integral tendons distribute the self-weight of loose infill materials that bear directly on the tendons. This anchorage method can be effectively employed when Geoweb protection is applied over geomembrane liners that cannot be penetrated with ground anchors.

Table 1 Typical Tendons	
Reference Name	Minimum Break Strength
TP-31	3.11 kN (700 lbf)
TP-67	6.70 kN (1500 lbf)
TP-93	9.30 kN (2090 lbf)
TK-89	8.90 kN (2000 lbf)
TK-133	13.34 kN (3000 lbf)
TPP-44	4.40 kN (990 lbf)

Ground Anchors

Geoweb channel lining systems can incorporate a variety of ground anchors to accommodate specific channel geometry and hydraulic stresses.

Standard or "nominal" anchoring includes an array of ATRA® Anchors distributed at predetermined spacing along selected integral tendons. This arrangement ensures that anchor resistance is distributed effectively throughout the protective lining. Typical "nominal" anchor density is 1 anchor / m² (1 anchor / 10 ft²).

Special high capacity anchors can also be incorporated as an array in situations where high uplift forces and extreme geometry are involved. "Duckbill" and "Helical" anchors are generally recommended in such situations.



Product Specification - GEOWEB® GW30V Geocells

GENERAL
GEOWEB® product is manufactured from textured, perforated strips of high density polyethylene that are bonded together to create a network of interconnected cells. The GEOWEB® cells can be filled with soil, aggregate, concrete, pulverized debris, recycled asphalt pavement, or other infill material for geotechnical applications such as: 1) load support for unpaved and paved roads, railways, ports, heavy-duty pavements, container yard, and basal embankments stabilization; 2) retaining structures, free-standing structures, and fascia walls; and, 3) slope, channel, and geomembrane protection.

DIMENSIONS		
Parameter	Units	Value
Cell Depth (Available in 5 Depths) ¹	Inches (mm)	3 (75), 4 (100), 6 (150), 8 (200), 12 (300)
Cell Size (Length x Width +/- 10%)	Inches (mm)	11.3 x 12.6 (287 x 320)
Expanded Section Width	Feet (m)	Varies: 7.7 to 9.2 (2.3 to 2.8)
Expanded Section Length	Feet (m)	Varies: 18, 21, 25, 29, or 34 (5.5 to 10.4)

STRUCTURAL INTEGRITY AND SYSTEM PERFORMANCE		
Parameter	Units	Value
Minimum Short Term Seam Peel Strength	lbf/in (N/cm)	≥80 (142)
Long-Term Seam Peel Strength (standard 4-inch sample width) ²	lb (N)	160 (710)
Internal Junction Efficiency ³	%	≥100
Mechanical Junction Efficiency (Connection Type: ATRA Key) ³	%	≥100
Peak Friction Angle Ratio (δ/δ) ⁴	Unitless	0.95

MATERIAL PROPERTIES			
Parameter	Test Method	Units	Value
Polymer Density	ASTM D1505 or D792	g/cm ³	0.935 - 0.965
Carbon Black Content ⁵	ASTM D1603	%	1.5 - 2.0
Sheet Thickness Prior to Texture	ASTM D5199	mm (mil)	1.27 (50), -5% +10%
Sheet Thickness After Texture	ASTM D5199	mm (mil)	1.52 (60), -5% +10%
Texture Type/Shape	--	--	Rhomboidal
Texture Density	--	indentations/cm ²	22 - 31

DURABILITY			
Parameter	Test Method	Units	Value
Environmental Stress Crack Resistance	ASTM D1693	hrs	>5,000
Resistance to Oxidation ⁶	EN ISO 13438	yrs	≥50
Resistance to Weathering ⁷	EN 12224	%	100

- Notes:**
- 1) 12-inch cell depth available in 21-cell panel length only.
 - 2) A 100-mm (4.0 in.) wide seam sample shall support a 72.5 kg (160 lb) load for a period of 7 days minimum in a temperature-controlled environment undergoing a temperature change on a 10 hour cycle from ambient room to 54°C (130°F). Ambient room temperature is per ASTM E 41.
 - 3) Junction efficiency determined as a percentage of junction performance (EN ISO 13426-1) to perforated strip performance (EN ISO 10319).
 - 4) Typical design value for clean granular infill material (i.e., coarse sand or crushed aggregate). Consult with manufacturer to confirm value for other types of infill materials.
 - 5) Standard black HDPE strips. For tan/green GEOWEB, hindered amine light stabilizer (HALS) content will be 2.0% by weight of carrier.
 - 6) Predicted to be durable for a minimum of 50 years in natural soil with a pH between 4 and 9 and at a soil temperature ≤ 25°C.
 - 7) 100% of original tensile strength retained following exposure to intense UV radiation and accelerated weathering in accordance with EN 12224.



© 2021 Reynolds Presto Products, Inc. This specification is copyrighted and based on the use of Genuine GEOWEB® manufactured by Reynolds Presto Products, Inc. (Presto Geosystems). Any use of this specification for any product other than that manufactured by Reynolds Presto Products, Inc. is strictly prohibited.

PRESTO GEOSYSTEMS | Appleton, WI | P: 800-548-3424 | E: info@prestogeo.com | www.prestogeo.com
10 Aug 2021

DESIGN CRITERIA

Slope protection details are influenced by the embankment angle (H:V), length, and infill. Presto's free project evaluation service can help determine the suitable cell size, cell depth, and structural components for your project.

KEY COMPONENTS

The complete GEOWEB® slope protection system may include some or all of the following:

- | | |
|-------------------------------|-------------------------------|
| TYPICAL COMPONENTS | OPTIONAL COMPONENTS |
| • GEOWEB sections | • Polymeric tendons |
| • ATRA® Key connection device | • ATRA Tendon Clips |
| • Cell infill materials | • Geotextile separation layer |
| • ATRA Anchors & Speed Stakes | • Geomembrane |

INTEGRAL SYSTEM ACCESSORIES

The following accessories may be integrated to meet design requirements and to facilitate and expedite construction.

1 ATRA KEY GEOWEB CONNECTION DEVICE



For quick and easy connection of GEOWEB sections, exclusive ATRA Keys significantly reduce contractor installation time and provide a 3X stronger connection of GEOWEB sections than any other method. Made from corrosion-resistant polymer.

5 TENDONS & ATRA TENDON CLIPS

Tendons and ATRA Tendon Clips work together to provide a load transfer and suspension system over the GEOWEB system.

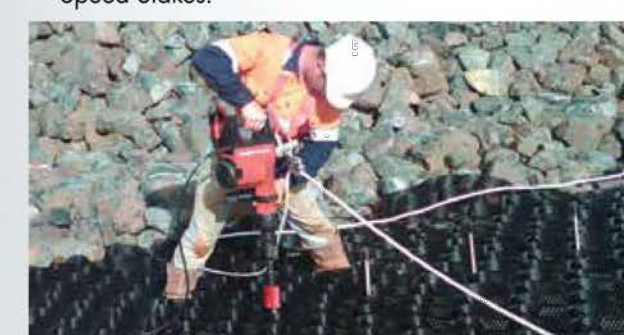
TENDONS

Tendons in various tensile strengths are available to meet design requirements:

- Suspend GEOWEB material over geomembranes, hard surfaces, or steep slopes without anchors.
- Provide additional stability against gravitational, hydraulic, and buoyancy forces.
- Type and density are critical to the design strength.

ATRA TENDON CLIPS

- ATRA Tendon Clips transfer the load from the GEOWEB cell wall to tendons.
- 2X stronger than other load transfer devices.
- 'Turn-and-lock' design engages ATRA Tendon Clips securely with the GEOWEB cell wall.
- Allows easier off-slope preassembly.



From: [Steven Sutton](#)
To: [Melissa Ford](#)
Cc: [Lepp, Adam \(DNR\)](#); [John Terpstra](#); watkinsb1@michigan.gov
Subject: Paint Creek Bridge - Limited Use Permit Application
Date: Tuesday, January 10, 2023 1:27:46 PM
Attachments: [image001.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Melissa

On behalf of the project team, we have outlined responses below in red to the questions raised by the commission.

Adam and Steve,

The Licensing Committee has come back with a few questions about your application. Could you please respond to the following:

1. When is this project scheduled? When will it start and how long will it take to complete? **At this time, the project is planned for a spring Bid letting, and construction beginning in Summer of 2023. The fabrication time for the bridge is likely 12-14 weeks, but the actual construction in the field is likely a 4-week event.**
2. Will the trail need to be closed during any of the construction phases? If so for how long? **The section of trail north and south of the bridge location would require closure during the 4-week installation period for safety reasons.**
3. Part of this bridge will be on Trailways Commission property. Who will be responsible for maintaining the bridge and approach after construction? **The bridge and immediate approaches into the bridge will be maintained by the DNR**
4. Since part of the bridge will be on Trailways Commission property what liability does the Commission have? **See email below from Nicole Hunt (DNR Regulatory Manager).**
5. Did the Trailways Commission have any input into where this bridge is proposed? Is it possible to find another location where the bridge would be constructed so that it is not on Trailways Commission property but a path leading to the bridge could be installed. **The State purchased a property for the sole purpose of allowing the bridge crossing to be achieved on State owned property, to traverse from Bald Mountain Rec area to the Paint Creek trail. Other locations would require private easements, and still require placement on portion of railway property.**

Steve Sutton, PE, LSIT

Principal

Nowak & Fraus Engineers

46777 Woodward Avenue
Pontiac, Michigan 48342

T: 248.332.7931

C: 248.635.6571



Electronic Data Notice – The information contained in this electronic communication is considered part of Nowak & Fraus Engineers' (NFE) instrument of service and shall not be used on other projects. Since data stored on electronic media can be altered, translated or modified; NFE will not be liable for the accuracy, completeness, or readability of the electronic data. The electronic data should be checked against the hard copy. Hard copies of all NFE data are on file and available upon request if needed for comparison.

From: Hunt, Nicole (DNR) <HuntN1@michigan.gov>
Sent: Tuesday, January 10, 2023 10:49 AM
To: Terpstra, John (DNR) <TERPSTRAJ@michigan.gov>
Cc: Watkins, Bruce (DTMB) <WatkinsB1@michigan.gov>; Lepp, Adam (DNR) <LeppA@michigan.gov>; Steven Sutton <swsutton@nfe-engr.com>
Subject: RE: Paint Creek Bridge - Limited Use Permit Application

The question about liability is difficult to answer, mainly because it is subjective based on specific facts and application of law. Any liability is going to be tied to specific actions taken or actions that should have been taken that were not. However, MCL 324.73301 would reduce and nearly eliminate the potential for liability against PCTC except in the cases of gross negligence.

324.73301 Liability of landowner, tenant, or lessee for injuries to persons on property for purpose of outdoor recreation or trail use, using Michigan trailway or other public trail, gleaned agricultural or farm products, fishing or hunting, or picking and purchasing agricultural or farm products at farm or "u-pick" operation; definition.

(1) Except as otherwise provided in this section, a cause of action does not arise for injuries to a person who is on the land of another without paying to the owner, tenant, or lessee of the land a valuable consideration for the purpose of fishing, hunting, trapping, camping, hiking, sightseeing, motorcycling, snowmobiling, or any other outdoor recreational use or trail use, with or without permission, against the owner, tenant, or lessee of the land unless the injuries were caused by the gross negligence or willful and wanton misconduct of the owner, tenant, or lessee.

(2) A cause of action does not arise for injuries to a person who is on the land of another without paying to the owner, tenant, or lessee of the land a valuable consideration for the purpose of entering or exiting from or using a Michigan trailway as designated under part 721 or other public trail, with or without permission, against the owner, tenant, or lessee of the land unless the injuries were caused by the gross negligence or willful and wanton misconduct of the owner, tenant, or lessee. For purposes of this subsection, a Michigan trailway or public trail may be located on land of any size including, but not limited to, urban, suburban, subdivided, and rural land.

(3) A cause of action does not arise, for injuries to a person, against a person, other than a for-profit legal entity, with whom the owner, tenant, or lessee of land contracts to construct, maintain, or operate a trail or other land improvement used by the injured person as described in subsections (1) and (2), unless the injuries were caused by the gross negligence or willful and wanton misconduct of the person, other than a for-profit legal entity, with whom the owner, tenant, or lessee contracts.

(4) A cause of action does not arise against the owner, tenant, or lessee of land or premises for injuries to a person who is on that land or premises for the purpose of gleaning agricultural or farm products, unless that person's injuries were caused by the gross negligence or willful and wanton misconduct of the owner, tenant, or lessee.

(5) A cause of action does not arise against the owner, tenant, or lessee of a farm used in the production of agricultural goods as defined by section 35(1)(h) of the former single business tax act, 1975 PA 228, or by section 207(1)(d) of the Michigan business tax act, 2007 PA 36, MCL 208.1207, for injuries to a person who is on that farm and has paid the owner, tenant, or lessee valuable consideration for the purpose of fishing or hunting, unless that person's injuries were caused by a condition that involved an unreasonable risk of harm and all of the following apply:

(a) The owner, tenant, or lessee knew or had reason to know of the condition or risk.

(b) The owner, tenant, or lessee failed to exercise reasonable care to make the condition safe, or to warn the person of the condition or risk.

(c) The person injured did not know or did not have reason to know of the condition or risk.

(6) A cause of action does not arise against the owner, tenant, or lessee of land or premises for injuries to a person, other than an employee or contractor of the owner, tenant, or lessee, who is on the land or premises for the purpose of picking and purchasing agricultural or farm products at a farm or "u-pick" operation, unless the person's injuries were caused by a condition that involved an unreasonable risk of harm and all of the following apply:

(a) The owner, tenant, or lessee knew or had reason to know of the condition or risk.

(b) The owner, tenant, or lessee failed to exercise reasonable care to make the condition safe, or to warn the person of the condition or risk.

(c) The person injured did not know or did not have reason to know of the condition or risk.

(7) As used in this section, "agricultural or farm products" means the natural products of the farm, nursery, grove, orchard, vineyard, garden, and apiary, including, but not limited to, trees and firewood.

Nicole M. Hunt

Regulatory Unit Manager

Michigan Department of Natural Resources

Parks and Recreation Division

517-282-9970

HuntN1@michigan.gov





4393 Collins Road
Rochester, MI 48306
(248) 651-9260
Paintcreektrail.org

MEMO

To: Commissioners, Alternates, & Staff
From: Melissa Ford, Trail Manager
Subject: Upcoming Grant Opportunities for Bridge 31.7 Replacement Project
Date: February 14, 2023

There are six upcoming grant opportunities that the Commission could apply for funding from for the Bridge 31.7 replacement project.

Michigan Department of Natural Resources – Michigan Spark Grants

The Commission's application for the Spark grant was not awarded during this first round of applications. Out of 460 applicants, only 21 projects were funded. Once our application's scores are shared in a few weeks, I will be sure to share them with Commission. No date has been announced yet for the second round of funding.

Michigan Department of Transportation - Transportation Alternatives Program

Trail Manager Ford attended the Rochester City Council meeting on February 13th where the Council approved the Commission's request for the city to serve as the lead applicant for the TAP grant and provide financial support (20% match) for the project in the amount of \$191,760. Council also passed a resolution approving the submission of the grant application.

City of Rochester/Trailways Commission is requesting \$467,040 in grant funds from TAP. Remaining balance for the project will hopefully come from a \$300,000 grant from the Michigan Natural Resources Trust Fund.

Trail staff sent notices to all affected adjacent property owners about the public hearing at this month's meeting. All public comment from the hearing will be incorporated in the grant proposal narrative.

Application deadline is February 22, 2023. Tentative funding decision date is July 19, 2023.

Michigan Department of Natural Resources – Michigan Natural Resources Trust Fund

Development project minimum/maximum grant amount: \$15,000 to \$300,000. The MNRTF Program requires a minimum 25 percent match. Applications are due April 1, 2023.

An accessibility workshop is planned for March 9th at 6:00 p.m. at the Cider Mill. Commission attendance is not required but encouraged!

Michigan Department of Natural Resources – Land and Water Conservation Fund

The Land and Water Conservation Fund Act precludes the use of other federal grant funds to be used as match. Therefore, the TAP grant cannot be used a match for a LWCF grant but could be used as match for MNRTF grants. Does the Commission want to apply for both grants?

The minimum grant request amount is \$30,000 and the maximum grant request amount is \$500,000. The match percentage must be exactly 50 percent. Applications are due April 1, 2023.

Community Foundation for Southeast Michigan - Ralph C. Wilson, Jr. Trails Maintenance Fund

No new information at this time. Minimum grant request is \$50,000 - \$400,000 maximum. All Trails Maintenance Grants require a minimum 1:1 funding match (\$1 of Trails Maintenance Grant money for every \$1 from other sources). The dates for the 2023 application cycle have not been released yet but last year's applications were due on March 31, 2022.

Michigan Department of Natural Resources – Fisheries Habitat Grant Program

Commission can reapply for the grant in November 2023 if it wishes. Trail manager Ford will work with DNR Fisheries Division to get project/bridge listed on the 2023 Priority Habitat Conservation Projects List.



4393 Collins Road
Rochester, MI 48306
(248) 651-9260
Paintcreektrail.org

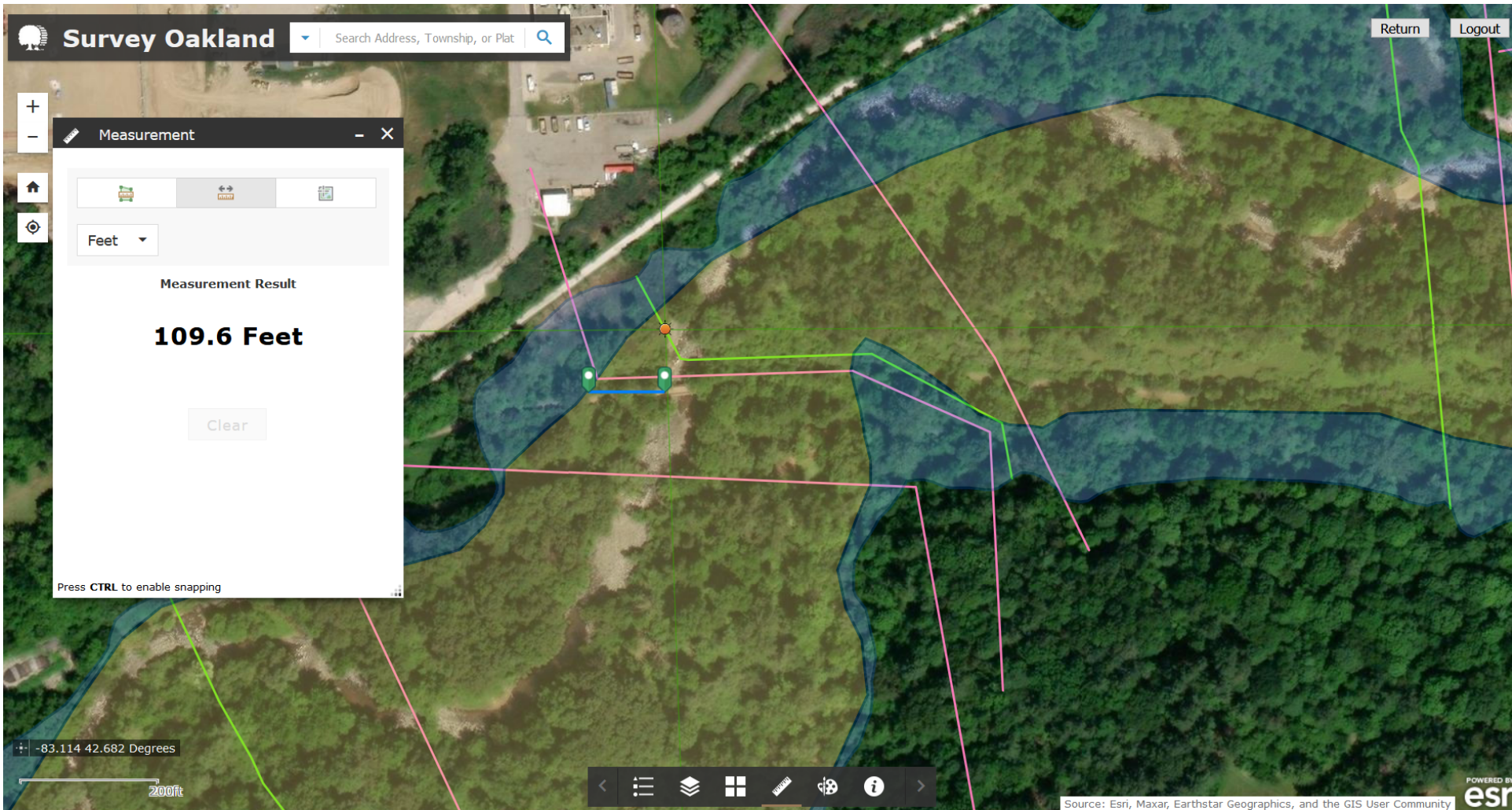
MEMO

To: Commissioners, Alternates, & Staff
From: Melissa Ford, Trail Manager
Subject: Southeast Rochester property
Date: February 16, 2023

As you may recall, Trail Manager Ford is working with the city of Rochester's engineering firm to get an updated cost estimate for this project. AEW requested several documents from Mannik Smith in order to update the estimate, including whether Mannik Smith applied for a permit from EGLE for the project. Mannik Smith responded that they did not apply for a permit.

AEW has looked into this further and has determined that the observation deck, as it currently is designed, would be in the floodway – which would require a permit. The deck is about 50' west from the bridge, the floodway limit per FEMA map is about 110' west from the edge of the bridge. AEW is concerned that we will not be able to get a permit as EGLE does not allow fill/obstacles in the floodway, which this deck would be located in. I've asked AEW to reach out to EGLE to see if they will accept the deck in the floodway. I will keep you posted but we may want to rethink this project and the deck's location if we can't build within the floodway. We could move it outside the floodway limit and propose it within the floodplain but then the deck would not overlook the river.

Additionally, after further review of the documents from Mannik Smith, AEW does not believe it has enough information to give us a cost estimate for the observation deck if EGLE allows the Commission to build it at the proposed location. In order to provide the Commission with a preliminary cost estimate for the scope of work, AEW would need to charge us \$1,500 for their time. Furthermore, if the project were to proceed, AEW estimates it would cost \$21,000 to design the project and complete the necessary surveys, such as soil borings for the depths of the footings and a topographical survey for the elevation. The drawings we have from Mannik Smith are not adequate to construct the project.



2023 Paint Creek Trail Ad-Hoc Committee Descriptions and Vacancies		
Recognition Ad Hoc committee	The Recognition Subcommittee is tasked with the planning and budget for a Recognition Ceremony, recognizing the many who have contributed their time, talent, or financial resources to the trail.	1. Linda Gamage 2. Dave Mabry 3. Steve Sage 4.
Paint Creek Trailways Commission Personnel Ad Hoc committee	The Personnel subcommittee is charged with reviewing job descriptions and conducting employee evaluations/reviews. The Subcommittee makes recommendations to the Commission for employee wages for the upcoming fiscal year. One representative from each member community is required, and historically have been the PCTC officers	1. David Becker 2. Martha Olijnyk 3. Patrick Ross 4. David Walker
Orion Art Project committee	The subcommittee will work with the Orion Township and/or the Village of Lake Orion to develop an art project in the northern section of the trail. Subcommittee should include one or two reps from Orion Township and/or the Village of Lake Orion.	1. David Becker 2. Jason Peltier 3. 4.
Development of Property in S.E. Rochester committee	This subcommittee is looking at ways to develop 2 parcels that the PCTC owns in Southeast Rochester. One parcel is 1/2 acre; the other is approx. 1.4 acres. The properties border the Clinton River Trail and Bloomer Park.	1. David Becker 2. Ken Elwert 3. Linda Gamage 4. Steve Sage
Labor Day Bridge Walk September 4, 2023	Held each year on Labor Day, the walk is our most successful event. Due to parking issues, it's held at the Rochester Municipal Park each year, and we provide two options – a 1-mile walk, or a 5K run on the trail. It's a free, family event. We will need assistance recruiting sponsors and volunteers.	1. Robin Buxar 2. Julia Dalrymple 3. Ken Elwert 4. Martha Olijnyk 5. David Walker
Trail Branding & Signage Ad-Hoc Committee	This committee has been reviewing PCT branding options, brochure updates, map updates, and ideas to increase awareness of the trail.	1. Melissa Ford 2. Linda Gamage 3. Martha Olijnyk 4. Steve Sage
Trail improvements/Resurfacing Ad-Hoc Committee	This Committee prioritizes Commission goals and projects. The Commission may decide this committee is not necessary, based on current projects in 2023.	1. David Becker 2. Brian Blust 3. Steve Sage 4. David Walker
Licensing Ad-Hoc Committee	This committee is charged with reviewing the Limited Use Permit applications, Encroachment Policy and Removal Procedures, License Agreements, and proposed easements.	1. Linda Gamage 2. Martha Olijnyk 3. David Walker 4.

Paint Creek Trail 40th Anniversary Celebration Committee	This committee will lead planning of the event in honor of the Paint Creek Trail's 40 th anniversary in 2023.	1. Brian Blust 2. Dave Mabry 3. Jason Peltier 4. Aaron Whatley/Patrick Ross
Friends of the Paint Creek Trail Committee	This committee is tasked with working in conjunction with the Friends Group to discuss ideas relative to the sustainability of the organization and provide recommendations to the Commission on how it might assist the Friends moving forward.	1. Robin Buxar 2. Linda Gamage 3. Dave Mabry 4.



MEMO

To: Commissioners, Alternates & Staff
From: Eryn Grupido, Administrative Assistant
Subject: 2023 Commission Goals & Objectives.
Date: February 21, 2023

The results of our goal rankings are in for 2023. Below are listed the goals revised based on Commissioner rankings. Goals are ranked from one to three, with one being the most important. Also listed is the time frame in which the Commission felt the goal should be completed. LT indicates a long-term goal and OG indicates a goal that is ongoing.

Additionally, a copy of the Master Plan Action Program and Capital Improvement Schedule can be found at: <https://paintcreektrail.org/wordpress/commission-2/recreation-master-plan/>

2023 Goals

Administrative	Progress	2023 Priority	Timeframe	Commissioner Notes
Continue coordinating assistance with Friends of the Paint Creek Trail (ongoing)	The Friends Subcommittee has been working in collaboration with the Friends on a Memorandum of Understanding of Friends and Trail assistance to each other. The MOU is currently under review (2/16/23)	1	OG	
Continue Trail etiquette education (ongoing)	Ongoing. Signage will be placed on the trail and in the kiosks to raise awareness about freeze/thaw season etiquette. Posts will also be made on social media about this topic. Signs have been placed on the trail and a pinned post is on the Trail's Facebook page regarding this topic. Trail staff plans to reinstall temporary signage on the trail encouraging users to slow down in congested areas and walk, run, & cycle single file.	2	OG	

Continue coordination and participation with Oakland County Trail, Water & Land Alliance (TWLA)		2	OG	
Trail Closure education/public relations/Communications Plan campaign (Ongoing)	Ongoing. Continue to utilize social media, website, and other resources to provide information to trail users.	2	OG	
Adopt –A-Trail program	2023 begins a new 2 year contract for adoptees, trail staff will be confirming renewals.	2	OG	
Develop a volunteer program to recruit, train to help in the office special projects and special events	TBD	2	OG	Potentially eliminate this
Make presentation at member community City Councils and Township Boards	TBD.	2	OG	Commission members present to corresponding communities.

Master Plan	Progress	2023 Priority	Timeframe	Commissioner Notes
Southeast Rochester Property Development	Trail Manager Ford and Commissioner Gamage met with Andrea LaFontaine, Executive Director at Michigan Trails and Greenways Alliance and the estate attorney for a site visit on November 8 th . The estate attorney approved the site and trail staff are working to get an update cost estimate for the project to him for review. The engineers for the city of Rochester are reviewing the 2019 bid docs and will provide an updated cost estimate once I am able to provide them with additional information from Mannik Smith. I have reached out to Mannik Smith and they will send this material to me by the end of the week. Ford received materials from MSG and sent them to AEW for review. Waiting for AEW to send updated cost estimate for project.	2	OG	As long as we have an interested party funding it keep it ongoing.

Planning & Development Goals	Progress	2023 Priority	Timeframe	Commissioner Notes
National Trails Day – June 3, 2023	Oakland Township would like to jointly hold a ribbon cutting ceremony for Paint Creek Junction with the Trailways Commission as the Commission's 2023 National Trails Day event. 2023 NTD is scheduled for Saturday, June 3.	1	OG	

Labor Day Bridge Walk – September 4, 2023	TBD.	1	OG	
Garlic Mustard Workday	OTPRC & Six Rivers Land Conservancy would tentatively like to hold the 2023 garlic mustard workday on the trail on Tuesday, May 16 from 9 am to 12 pm.	3	OG	
Paint Creek Junction	Ribbon cutting scheduled for June 3, 2023 as part of National Trail Day.	2	Eliminate after Ribbon Cutting Ceremony	
Apply for Pure Michigan Trail designation from the Michigan Department of Natural Resources	Trail staff submitted the application in early January and will hopefully hear back by April.	1	Revisit/eliminate after results of application.	

Policies	Progress	2023 Priority	Timeframe	Commissioner Notes
Native Plant Approval Policy	No progress yet. Need expert assistance	3	LT	
Conservation Stewardship Policy	No progress yet. Need expert assistance	3	LT	
Establish Memorial Amenity Donation Program	The Trail Improvements and Resurfacing Committee will review and provide recommendations to the Commission.	2	1yr to define a program, then OG	

Maintenance and Inspection	Progress	2023 Priority	Timeframe	Commissioner Notes
Assure Restrooms are maintained (ongoing)	Ongoing.	1	OG	
Continue vandalism prevention education (ongoing)	Ongoing.	2	OG	
Continue surface maintenance inspections and coordination of repairs (ongoing)	Ongoing. We are beginning to receive complaints about the condition of the trail. I would like to set a date that the communities agree to for when the grading will be completed by. Orion Township completed grading of its section of the trail on May 10 th . All other communities plan to grade the trail as time and staffing allow but do not have set dates yet for	2	OG	

	when the work will be completed. Grading has been completed in Oakland Township.			
Address ADA compliance issues identified in 2020-2024 PCT Recreation Master Plan	TBD	2	1-2 yr	Change to OG

Trail Safety	Progress	2023 Priority	Timeframe	Commissioner Notes
City of Rochester – Bridge 31.7 Replacement	<p>Award notification for both the Community Foundation for Southeast Michigan grant and Oakland County Parks and Recreation Trailways grant program is in April 2022. The city of Rochester received the \$25,000 from Oakland County for this grant. Notification of awards for the CFSEM grant is in late April. A funding proposal will be submitted for this project to Rep. Elissa Slotkin's office as part of the Community Project Funding program. The Trailways Commission received the \$50,000 grant from the Community Foundation for Southeast Michigan for the Bridge 31.7 design engineering. ASTI Environmental performed the mussel recon at the bridge on June 30th. No mussels were found. The next step is receiving concurrence from the Michigan DNR that the full survey is not needed. Now that the mussel survey has been completed, ASTI will begin the wetland delineation and the rest of the endangered species survey. Trail manager Ford met with the city of Rochester and the engineer from AEW to discuss the bridge project. AEW plans to begin the topographical survey shortly. AEW is currently performing the topographical survey for the project. ASTI Environmental is waiting for AEW to complete the topographical survey and perform a preliminary design for the bridge before it can continue working on the endangered species clearance for the project. The city of Rochester reached out to Trail Manager Ford about an opportunity to apply to the federal DOT bridge investment program for the Bridge 31.7 replacement project. Rochester is working with AEW to get the application complete as it is due on September 8th and most of the information required is from engineering. PCTC will provide a letter of support. Rochester has a call into the BIP office to confirm eligibility. The city/Trail is ineligible to apply to the federal DOT bridge investment program as the bridge is not part of a highway project. A memo is included in your packet outlining the various grant opportunities trail staff is considering to fund the construction of Bridge 31.7. AEW is confirming the span based on the proposed waterway opening</p>	1	2 yr	

	as part of its hydraulic analysis. Soil borings have been drilled, and AEW is awaiting geotech report assessing the soil conditions and foundation recommendations. Foundation alternatives are being evaluated and will be confirmed based on scour depth analysis and bearing pressures provided in geotech report. Specifications for the prefabricated truss bridge structure are being developed following the 33.7 bridge replacement project criteria and our discussions. Trail Manager Ford will submit pre-proposal for Fisheries Habitat grant on November 18 th and the Spark grant application on December 19 th . Pre-proposal for Fisheries Habitat grant submitted. DNR will notify if PCTC has been selected to submit a full application on Dec. 19. Draft application for Spark grant has been posted on PCT & city of Rochester website, PCT and Friends Facebook pages, and hard copies are available at PCT office and Rochester City Hall for public review. AEW has completed a structure plan and elevations and topographical survey for the bridge.			
Road Crossing improvements – work with RCOC on Adams Rd. crossing	Ongoing. Continue working with RCOC for improvements at our crossings.	2	OG	Change timeframe

Long Term Goals	Progress	2023 Priority	Timeframe	Commissioner Notes
Side parcel acquisition for parking and trail access	Will continue looking for opportunities.	3	OG	
Acquisition of historic resources	Will continue looking for opportunities.	3	OG	
Installation of drinking fountain, where appropriate, in each community		3	LT	
Integrate Village of Lake Orion extension more fully into Trail system	Ongoing.	2	OG	
Connections to Bald Mountain State Park	Engineering study completed. Trail Manager Ford will meet with DNR staff the week of December 12 th to discuss authorization to connect to the PCT.	1	OG	
Ensure focus on keeping the trail a “Natural Beauty Trail”.	Ongoing	1	OG	

Additional Goals	Progress	2023 Priority	Timeframe	Commissioner Notes
User survey of trail use	TBD	1	OG	Complete every 2yrs
Upgrade Trail website and develop Technology Plan	TBD	1	1 yr	Change timeframe
Review and ranking of all trail bridges by engineer	Administrative Assistant Grupido has compiled all of the bridge inspection reports for an engineer to review and rank. Trail communities need to coordinate bridge inspections within a few years of one another in order to facilitate an accurate review/ranking.	1	OG	



MEMO

To: Commissioners, Alternates and Staff

From: Melissa Ford, Trail Manager

Subject: February Manager's Report

Date: February 16, 2023

Advisory Committee Reports

There is a report from the Licensing Committee included in your packet. The 40th Anniversary Committee will hold its first meeting on February 21st and will provide an update on celebration plans at the Commission meeting.

Complaints/Vandalism

I am unaware of any complaints or vandalism on the Trail this month.

Medical Emergencies/Police/Fire Calls on the Trail

I am unaware of any Medical Emergencies/Police/or Fire calls on the Trail.

Finances

- All Member Community invoices for 2023 Operations and Patrol have been received except the City of Rochester.
- 2023 license fees invoices to various utilities will be sent out following review of grants by the Trail manager for compliance with the conversion process and an update to the license.

Follow Up

- **Bridge 31.7 Design Engineering:** AEW submitted the SHPO application in mid-December and expects that the state will ask for additional investigation. AEW plans to present plans for the bridge for review by the Commission at its March 21st meeting.
- **Southeast Rochester Property:** There is an update on the status of this project in your meeting packet.
- **"Beach" Encroachment in Oakland Township:** EGLE has followed up with responsible party and instructed them to restore the property via proper procedure.

Future Agenda Items

- ◆ Trail safety and maintenance standards
- ◆ Oakland Township Historical Society Railroad Signal Booth
- ◆ Recognition of Eagle Scouts for projects on the Trail
- ◆ Creating digital archive of PCTC records
- ◆ Review of Encroachment Policy

Promotion of the Trail

- Our Facebook page has 9,223 followers, a decrease of 102 since last month. However, Facebook shows that we have had no one unsubscribe in the last month. I think this loss is due to the changeover to the new Facebook page experience and the way it counts followers vs. page likes.
- Our Twitter account has 823 followers, no change since last month.
- Our Instagram Account has 1,935 followers, an increase of 34 since last month.
- Our E-Newsletter has 400 subscribers.
- I've posted information and photos on social media.

Paint Creek Trail Website Analytics

In the last month, we had 637 visitors, with 2,431 page views. The top 10 visited pages:

Top Pages	Last 30 days
Home Page	1,126
Trail Maps	556
Volunteer	171
FAQs	154
Parking	130
Agendas, Minutes & Packets	124
Mileage	88
Location	82
Trail history	53
TAP Grant Application	46

In January, we had 637 visitors, with 2,431 page views. The top 10 visited pages:

Top Pages	December
Home Page	877
Trail Maps	400
Agendas, Minutes & Packets	86
Parking	79
Location	74
FAQs	69
Trail history	63
Policies & Docs	55
Commission	48
Mileage	45

2023 Temporary Permit Approvals

Charter Township of Orion/Orion Veterans Memorial Run/Walk, May 29, 2023
Grace Centers of Hope's Pave the Way 5K, October 7, 2023

Commission Ad-Hoc Committee Assignments

Recognition Ad Hoc committee	Gamage, Mabry, Sage
Personnel Ad Hoc committee	Becker, Olijnyk, Ross, Walker
Orion Art Project Ad Hoc committee	Becker, Peltier
SE Rochester Property Ad Hoc committee	Becker, Elwert, Gamage, Sage

Labor Day Bridge Walk (Sept 6) Ad Hoc committee	Buxar, Dalrymple, Elwert, Olijnyk, Walker
Trail Branding & Signage Ad Hoc committee	Gamage, Ford, Olijnyk, Sage
Trail Improvements & Resurfacing Ad Hoc committee	Becker, Blust, Sage, Walker
Licensing Ad Hoc committee	Gamage, Olijnyk, Walker
Paint Creek Trail 40 th Anniversary Celebration Ad Hoc committee	Blust, Mabry, Peltier, Whatley/Ross
Friends of Paint Creek Trail Ad Hoc committee	Buxar, Gamage, Mabry

2023 Draft Operations Budget
Amended January 17, 2023

								2021 Final	2022 Approved	2023 Draft	Difference from 2022	2024 Projected
REVENUE												
Member Unit Contribution for Commission and Office Operations and Staff								\$72,000	\$73,440	\$74,909	\$1,469	\$76,782
	Rochester			18,727								
	Rochester Hills			18,727								
	Oakland Township			18,727								
	Orion Township			18,727								
Member Unit Contribution for Patrol Program, based on community mileage								\$14,680	\$15,901	\$19,500	\$3,599	\$19,883
	Rochester			1,533								
	Rochester Hills			3,284								
	Oakland Township			11,836								
	Orion Township			2,847								
Member Unit Contribution for Commission and Office Operations and Staff								n/a	n/a	\$5,000	\$5,000	\$0
	Rochester			1,250								
	Rochester Hills			1,250								
	Oakland Township			1,250								
	Orion Township			1,250								
Interest								\$77	\$300	\$300	\$0	\$300
Adopt-a-Trail								\$50	\$0	\$0	\$0	\$0
Trailways Saleable Items								\$0	\$0	\$0	\$0	\$0
Miscellaneous/Donations								\$185	\$200	\$200	\$0	\$200
Transfer from Legal Services								\$12,542	\$11,500	\$11,500	\$0	\$11,500
Trail Brochure Sponsorship								\$0	\$0	\$0	\$0	\$3,000
National Trails Day Sponsorship								\$575	\$500	\$500	\$0	\$500
Labor Day Bridge Walk Donations								\$974	\$0	\$0	\$0	\$0
Labor Day Bridge Walk Sponsorship								\$1,769	\$1,000	\$1,000	\$0	\$1,000
40th Anniversary Celebration Sponsorship								n/a	n/a	\$2,500	\$2,500	n/a
Bench/Trail Amenity Donations								\$0	\$1,250	\$2,500	\$1,250	\$2,500
Temporary Permit Fees								\$90	\$70	\$70	\$0	\$70
Transfer from Fund Balance (Rent & CFGR)								\$1,750	n/a	\$5,400	\$0	n/a
Program/Project Grants								\$106,582	\$0	\$0	\$0	\$0
MMRMA Asset Distribution								\$1,321	\$1,300	\$1,300	\$0	\$1,300
								\$212,595	\$105,461	\$124,679	\$19,218	\$117,035
EXPENSES												
Office												
Telephone and Computer Network Services								\$426	\$550	\$550	\$0	\$650
Office Furnishings								\$0	\$400	\$250	\$150	\$500
Office Materials & Supplies								\$276	\$975	\$975	\$0	\$1,350
Office Operating Expenses								\$688	\$1,750	\$1,250	\$500	\$1,500
Rent								\$6,250	\$6,250	\$7,650	-\$1,400	\$7,000
Postage								\$71	\$500	\$225	\$275	\$500
Office & Trail Equipment								\$12,120	\$925	\$2,700	-\$1,775	\$1,550
Bench donations								\$856	\$1,250	\$2,500	-\$1,250	\$2,500
Restroom Maintenance								\$0	\$0	\$0	\$0	\$0
Subtotal								\$20,687	\$12,600	\$16,100	-\$3,500	\$15,550

2023 Draft Operations Budget
Amended January 17, 2023

Staff Travel/Training/Development						2021	2022	2023	Difference	2024
Travel/Mileage						\$0	\$350	\$150	\$200	\$400
Education/Memberships						\$54	\$250	\$150	\$100	\$350
Per Diems						\$4,620	\$5,500	\$5,500	\$0	\$5,500
Subtotal						\$4,674	\$6,100	\$5,800	\$300	\$6,250
Insurance/Professional Services (other than legal)										
Auditing Fee						\$3,700	\$3,800	\$4,000	-\$200	\$4,100
Insurance (MMRMA)						\$4,120	\$4,100	\$4,200	-\$100	\$4,300
Worker's Compensation Insurance						\$814	\$900	\$900	\$0	\$1,000
Recorders Fee						\$2,820	\$3,120	\$3,120	\$0	\$3,185
Subtotal						\$11,454	\$11,920	\$12,220	-\$300	\$12,585
Publicity/Raising awareness/Educational Projects										
Trailways Student Project						\$0	\$500	\$200	\$300	\$550
Brochures						\$1,385	\$0	\$0	\$0	\$3,000
Trail Promotional Items						\$0	\$1,100	\$500	\$600	\$1,250
Labor Day Bridge Walk						\$951	\$1,000	\$1,000	\$0	\$1,000
National Trails Day						\$590	\$500	\$500	\$0	\$500
Trail Etiquette Program						\$0	\$300	\$150	\$150	\$450
Recognition Ceremony						\$539	\$25	\$200	\$300	\$300
Subtotal						\$3,465	\$3,425	\$2,550	\$875	\$7,050
Administrative Personnel										
Wages - Manager						\$33,763	\$34,470	\$35,608	-\$1,138	\$36,214
Longevity Salary - Trail Manager						n/a	\$1,000	\$1,059	-\$59	\$0
FICA/MESC - Manager						\$2,583	\$2,713	\$2,724	-\$11	\$2,757
Wages - Part-time Administrative Assistant						\$10,076	\$10,541	\$9,641	\$900	\$9,738
Longevity Salary - Admin. Asst.						n/a	\$800	\$0	800	\$0
FICA/MESC - Admin. Asst.						\$771	\$868	\$737	\$131	\$745
Subtotal						\$47,193	\$50,392	\$49,769	\$623	\$49,454
Trail Projects										
Signage Project						\$64,825	\$0	\$0	\$0	\$0
Trail Improvement Project - South Rochester						\$0	\$0	\$0	\$0	\$0
Property Acquisition Projects						\$0	\$0	\$0	\$0	\$0
Bridge 33.7/Resurfacing Ribbon						\$505	n/a	n/a	\$0	n/a
Moutrie Pollinator Garden Ribbon Cutting Ceremony						\$0	\$0	\$0	\$0	\$0
Fence & Railing Replacement						\$20,320	n/a	n/a	\$0	n/a
Ralph C. Wilson, Jr. Foundation funds to OTPRC for Paint Creek Junction						\$20,226	\$0	n/a	\$0	n/a
Document Scanning						n/a	\$3850	\$0	\$3,850	\$4,500
PCT Website Redesign						n/a	n/a	\$10,000		\$0
40th Anniversary Celebration						n/a	n/a	\$2,500		\$0
Subtotal						\$105,876	\$3,850	\$12,500	-\$8,650	\$4,500
Patrol Program										
Wages - PCTC Bike Patrol						\$4,094	\$5,073	\$5,225	-\$152	\$5,330
FICA/MESC-Bike Patrol						\$313	\$388	\$400	-\$12	\$408
Contracted Mounted Patrol Services						\$6,254	\$10,217	\$13,575	-\$3,358	\$13,845
Commission Contribution to Bike Patrol Services						\$0	\$0	\$0	\$0	\$0
Bike Patrol Equipment & Misc						\$128	\$223	\$250	-\$27	\$300
Subtotal						\$10,789	\$15,901	\$19,450	-\$3,549	\$19,883

Amended January 17, 2023

								2021	2022	2023	Difference	2024
Printing/Logo Expenses												
Trail Saleable Items								\$0	\$0	\$0	\$0	\$0
Subtotal								\$0	\$0	\$0	\$0	\$0
Miscellaneous/Contingency								\$282	\$1273	\$1,790	-\$517	\$1,763
Transfer to Community Foundation for Greater Rochester								n/a	n/a	\$4,500		n/a
Transfer to fund balance								\$8,175	\$0	\$0	\$0	\$0
Subtotal								\$8,457	\$1273	\$6,290	-\$5,017	\$1,763
				Total Expenses				\$212,595	\$105,461	\$124,679	-\$19,218	\$117,035
				Revenue minus Expenses				\$0	\$0	\$0	\$0	\$0
Legal Services Project Budget												
								2021	2022	2023	Difference	2024
REVENUES												
Member Unit Contribution								\$0	\$0	\$0	\$0	\$0
License Fees								\$12,869	\$14,000	\$14,000	\$0	\$14,000
License Fees Paid in Advance								\$0	\$0	\$0	\$0	\$0
Transfer From Fund Balance								\$1,500	\$1500	\$1,500	\$0	\$0
New License Preparation Fees								\$0	\$0	\$0	\$0	\$0
				Total Revenue				\$14,369	\$15,500	\$15,500	\$0	\$14,000
EXPENSES												
Legal Retainer								\$0	\$0	\$0	\$0	\$0
License Preparation Fees								\$1,827	\$2000	\$2,000	\$0	\$0
Transfer to Operating Budget								\$12,542	\$11,500	\$11,500	\$0	\$11,500
Advance License Fees Carried Forward								\$0	\$0	\$0	\$0	\$0
Legal Services								\$0	\$1,500	\$1,500	\$0	\$1,500
Unallocated								\$0	\$500	\$500	\$0	\$1,000
				Total Expenses				\$14,369	\$15,500	\$15,500	\$0	\$14,000
					Revenue Minus Expenses - Lega			\$0	\$0	\$0	\$0	\$0
Special Project Budget - Bridge 33.7 Renovation Project								2021	2022	2023		2024
Source of Funds												
Paint Creek Trailways Commission Fund Balance								\$1	\$7,819	\$0		\$0
Member Unit Contributions								\$0	\$0	\$0		\$0
MNRTF Reimbursement								\$25,832	n/a	\$0		\$0
Ralph C. Wilson Foundation								\$3,928	\$0	\$0		\$0
				Total Revenue				\$29,761	\$7,819	\$0		\$0
EXPENSES												
Bridge 33.7 Renovation								\$0	\$7,819	\$0		\$0
Legal Services								\$0	\$0	\$0		\$0
Tree Removal								\$0	n/a	\$0		\$0
Design Engineering								\$0	\$0	\$0		\$0
Construction Engineering								\$0	\$0	\$0		\$0

2023 Draft Operations Budget
Amended January 17, 2023

Soundpost Audio Sign								\$0	\$0	\$0		\$0
Recognition Plaques								\$0	n/a	\$0		\$0
MNRTF Reimbursement to OTPRC								\$0	n/a	\$0		\$0
Stairway at Bridge 33.7								\$29,761	n/a	\$0		\$0
								\$29,761	\$7,819	\$0		\$0
Special Project Budget - Pollinator Garden								2021	2022	2023		2024
Source of Funds												
Paint Creek Trailways Commission Fund Balance								\$0	\$0	\$0		\$0
Friends of the Paint Creek Trail								\$496	\$0	\$0		\$0
Donation								\$0	\$0	\$0		\$0
Community Foundation of Greater Rochester								n/a	n/a	\$0		\$0
Weigand's Nursery								n/a	n/a	\$0		\$0
								\$496	\$0	\$0		\$0
Expenses												
Deposit								\$0	\$0	\$0		\$0
Temporary Sign								\$0	\$0	\$0		\$0
Split Rail Fence								\$0	n/a	\$0		\$0
Garden Construction								\$0	n/a	\$0		\$0
Reimbursement to PCT Friends for Weigand's								\$0	n/a	\$0		\$0
Informational Sign								\$0	n/a	\$0		\$0
Bike Rack								\$496	\$0	\$0		\$0
								\$496	\$0	\$0		\$0
Special Project Budget - Bridge 31.7 Renovation Project								2021	2022	2023		2024
Source of Funds												
Paint Creek Trailways Commission Fund Balance								n/a	n/a	\$0		\$0
Member Unit Contributions								n/a	n/a	\$0		\$0
Friends of the Paint Creek Trail								n/a	n/a	\$1051		\$0
Community Foundation for Southeast Michigan								n/a	n/a	\$50000		\$0
								\$0	\$0	\$51,051		\$0
EXPENSES												
Design Engineering								n/a	n/a	\$51,700		\$0
Ecological Services								n/a	n/a	\$16,000		\$0
								\$0	\$0	\$67,700		\$0
2022 Unrestricted Fund Balance								\$ 93,432.00				
2023 Unrestricted Additions								\$ -				
2023 Unrestricted Subtractions (Rent, CFGR & Legal)								\$6,900				
							Balance	\$ 86,532.00				
2023 Total Restricted Funds for future expenditures												
	Rochester Art Project - Maintenance fund						\$ 720					

2023 Draft Operations Budget
Amended January 17, 2023

	Art Project Brochure (Greenbaum)						\$	100					
	Moutrie Pollinator Garden Maintenance						\$	841					
					Subtotal		\$	1,661					
2023 Unrestricted Fund Balance								\$	86,532.00				
2023 Restricted Fund Balance								\$	1,661.00				
2023 Total Fund Balance (as of 10/20/22)								\$	88,193.00				