

Meeting: Board of Managers
Meeting date: 2/10/2022
Agenda Item #: 11.1
Request for Board Action

Title: Authorization to solicit bids for Six Mile Marsh Prairie trail construction

Resolution number: 22-007

Prepared by: Name: Laura Domyancich-Lee

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Reviewed by: Name/Title: Michael Hayman, Project Planning Manager; Anna Brown, Planner-PM

Recommended action:Board authorization to solicit bids for the construction of the Six Mile Marsh Prairie trail

with interpretive elements bid as alternates.

Schedule: February 11 - March 11, 2022: Construction bid solicitation

March 24, 2022: Construction bid award April – June 2022: Project construction

Budget considerations: Fund name and code: Six Mile Marsh Prairie 3-3106

Fund budget: \$347,861

Expenditures to date: \$59,274
Requested amount of funding: \$0

Past Board action: Res # 08-092 Halstead Bay Wetland Restoration Project, Project Ordering

Res # 11-052A Authorization to purchase Halverson property in the Six Mile Marsh

Subwatershed

Res # 12-077 Authorization to execute a contract for design and construction

oversight for the Halverson-Dimler Restoration

Res # 13-027 Six Mile Marsh Prairie Restoration Project – Award of Construction

Contract

Res # 20-101 Amendment to the 2021 Budget

Res # 21-021 Authorization to release the request for proposals for Six Mile Marsh

Prairie trail and interpretation design

Res # 21-034 Authorization to execute contract for Six Mile Marsh Prairie trail and

interpretation design

Res # 21-040 Authorization to contract for Six Mile Marsh Prairie site survey

Res # 21-049 Authorization to enter Local Trail Agreement with Three Rivers Park

District for Six Mile Marsh Prairie trail

Res # 21-062 Approval of Six Mile Marsh Prairie trail and interpretation 90% design

plans and authorization to solicit bids

Res # 21-076 Authorization to reject bids for the Six Mile Marsh Prairie trail and

interpretation project

Res # 21-087 Authorization to Amend Six Mile Marsh Prairie Trail Design Contract

with Damon Farber Landscape Architects

Summary:

Beginning in 2008, the Minnehaha Creek Watershed District (MCWD) began to identify opportunities for wetland restorations that would reduce external phosphorus loading to Six Mile Creek and downstream Halstead Bay. These efforts led to the 2011-2012 purchases of three adjacent parcels that total 210 acres and are positioned on the north edge of Six Mile Marsh. In 2013, the MCWD undertook restoration of these former agricultural properties, collectively known as the Six Mile Marsh Prairie Restoration. The restoration of the site as a whole has been aimed at both reducing nutrient loading and improvement of upland prairie, wetland, and woodland habitat within the site. Included in original design plans for the restoration of the site was a proposed future trail alignment that would serve as a spur trail from the Dakota Rail Regional Trail which lies on the property's western boundary. However, construction of the spur trail was deferred to allow the restoration time to establish prior to providing public access on the site.

MCWD's 2021 Capital Improvement Plan included \$172,851 carried forward from the original capital project budget to design and construct a public access trail into the Six Mile Marsh Prairie from the Dakota Rail Regional Trail. Given recent experience with trail design and site interpretation at Wassermann Lake Preserve and the greater investment into the Six Mile Creek-Halsted Bay (SMCHB) subwatershed as a focal geography, the Board of Managers approved a budget amendment on December 17, 2020 that increased the project budget to \$347,861 to support the development of a more comprehensive site access and interpretation plan.

In pursuit of creating a valuable user experience that is sensitive to the site, staff solicited design services, including landscape architecture, engineering, and interpretive element design, through a competitive request for proposals (RFP) process. On May 13, 2021, the Board of Managers authorized execution of a contract with Damon Farber Landscape Architects for design of a pedestrian trail and an interpretive program. Design reached the 90% design phase in September 2021, and the Board of Managers subsequently approved those plans on September 23, 2021 and authorized staff to solicit construction bids. To exercise control over costs, staff separated the construction of the trail and trailhead signage as a lump sum base bid, and the four interpretive elements were bid as individual alternates.

A bid solicitation period of three weeks returned only two bids, and both bids exceeded the project budget by more than \$200,000. The Board directed staff to reject the submitted bids on November 18, 2021 with the understanding that an improved bid response was possible if specific elements of the bid package were refined and if the bid period was lengthened and held during a more opportune time. On December 16, 2021, the Board authorized staff to amend the design contract budget by \$4,000 providing additional funds for Damon Farber to refine specifications and plans.

Over the past six weeks, the project specifications have been converted to a line item bid form that requires bidders to assign a cost to each operation or material line item that will, in total, equal the submitted bid price. This approach will prevent bidders from including higher contingencies which are often added to lump sum bids to cover unforeseen costs not evident in a lump sum package. To add further clarity to the bid, the form will follow itemization standard to the Minnesota Department of Transportation (MnDOT) with operations and materials tied to MnDOT specifications.

Design plans have also been altered due to cost considerations. Recognizing that the specified decomposed granite for the pedestrian trail is a premium material, the refined design now calls for Class V limestone gravel as the base bid trail surface and the decomposed granite as an add alternate. Also, the structural components of the "Transect" interpretive feature have been streamlined considerably to reduce costs but retain integrity and longevity. As with the first bid solicitation, the four interpretive elements will also be bid as individual alternates.

Other design alterations of note include additions to the base bid to provide further site enhancement beyond only the trail and trailhead signage. These additions are to construct the groundwork for both the "Transect" interpretive area and the gathering space at the barn including installation of the two planned picnic tables. If bid prices prevent the installation of the full interpretive plan, improvements to these two areas will establish an additional level of placemaking at a minimal expense.

In addition to these refinements, a late winter bid solicitation period of four weeks will likely be advantageous. Contractors will have adequate time to assemble a bid package and consider the project's time commitment as they set spring construction schedules.

Staff recommends authorization to solicit bids for construction of the Six Mile Marsh Prairie trail and interpretation.

Supporting documents: Attachment 1: Six Mile Marsh Prairie Trail Design Plans



RESOLUTION

Resolution number: 22-007

Title: Authorization to solicit bids for Six Mile Marsh Prairie trail construction

WHEREAS in August 2011 and August 2012, the Board of Managers authorized the purchase of three contiguous

parcels north of the Six Mile Marsh totaling 210 acres for the purpose of implementing restoration of wetland basins and adjacent upland within the site. The purpose of this acquisition was to advance nutrient reduction goals in the subwatershed and particularly to lower phosphorus export to Halstead Bay, which requires the largest phosphorus load reduction within the Minnehaha Creek Watershed

District (MCWD);

WHEREAS in January 2013, the Board of Managers approved the final design of the Six Mile Marsh Prairie

Restoration project which implemented 110 acres of wetland and adjacent upland restoration and developed concept plans for future construction of a spur trail to create public access to the property

once the restoration was established;

WHEREAS in May 2014, the Board of Managers identified the Six Mile Creek-Halstead Bay (SMCHB) subwatershed

as a priority area for focusing planning activities and coordination efforts with subwatershed partners. As such, the Six Mile Marsh Prairie Restoration project has been advanced with support from the City of Minnetrista, Three Rivers Park District, Hennepin County Regional Rail Authority, and the US Fish and

Wildlife Service;

WHEREAS in January 2018, the Board of Managers adopted the MCWD Watershed Management Plan (WMP),

which incorporated a comprehensive restoration strategy for the SMCHB subwatershed to achieve MCWD's goals of protecting and improving water quality, water quantity, ecological integrity, and thriving communities through land use and water integration. The WMP includes MCWD program activities which include engaging and educating communities on water resource issues and building

support for MCWD projects;

WHEREAS in December 2020, the Board of Managers amended the 2021 budget to increase the budget for the Six Mile Marsh Prairie Restoration project to \$347,861 for design and construction of a trail connecting the

Dakota Rail Regional Trail to the Six Mile Marsh Prairie site and interpretive elements for the project;

WHEREAS in March 2021, the Board of Managers authorized the release of the request for proposals for design

services for the Six Mile Marsh Prairie trail and interpretation and in May 2021, following a competitive selection process, the Board of Managers authorized a design and construction oversight contract with

Damon Farber Landscape Architects;

WHEREAS Three Rivers Park District (TRPD), which manages the Dakota Rail Regional Trail to which the Six Mile

Marsh Prairie trail will connect, reviewed and approved the location and design of the connection, and an agreement allowing the connection and setting maintenance terms was formally approved by the

TRPD Board of Commissioners in a Local Trail Agreement in August 2021;

WHEREAS Hennepin County Regional Rail Authority (HCRRA), which owns the property on which the regional trail

is located, reviewed and approved the location and design of the Six Mile Marsh Prairie trail connection

	to the regional trail, and HCRRA issued a permit for construction of the connecting trail in September 2021;							
WHEREAS	on September 23, 2021, the Board of Managers approved 90% design plans and authorized staff to solicit bids for construction;							
WHEREAS	on October 7, 2021, by publication, MCWD solicited sealed bids for a base project of trail construction and related improvements and bids for four interpretive features which were bid as add alternates;							
WHEREAS	MCWD received two bids by the submittal date of October 27, 2021, both responsive bids. The low bid exceeded the District designer's estimate by more than 65-percent and well exceeded the amount MCWD budgeted for construction;							
WHEREAS	on November 18, 2021, the Board of Managers rejected submitted bids and directed staff to seek authorization to rebid the project when bid conditions improved;							
WHEREAS	in preparation for a rebid, staff engaged Damon Farber Landscape Architects through a design contract amendment approved by the Board of Managers on December 16, 2021, to make adjustments and refinements to the bid package directed at soliciting an improved bid response;							
WHEREAS	the bid package has been duly revised and staff is advised that bid conditions have improved due to time of year and an extended bid period.							
	ORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers authorizes the strator to solicit bids for construction of the Six Mile Marsh Prairie trail.							
	nber 22-007 was moved by Manager, seconded by Manager Motion to ution ayes, nays,abstentions. Date: 2/10/2022							
 Secretary	Date: February 10, 2022							

Attachment 1

SIX MILE MARSH PRAIRIE TRAIL

Landscape Architecture, Engineering, and Site Interpretation Design





PROJECT INFORMATION

SIX MILE MARSH PRAIRIE TRAIL

PROJECT ADDRESS: 7701, 7901, 8015 HALSTEAD DRIVE, MINNETRISTA, MN 55364

PROJECT DIRECTORY

OWNER: MINNEHAHA CREEK WATERSHED DISTRICT 15320 MINNETONKA BLVD, MINNETONKA, MN 44345

CONTACT: LAURA DOMYANCICH-LEE, PLANNER-PROJECT MANAGER, (952)641-4582

LANDSCAPE ARCHITECT:
DAMON FARBER LANDSCAPE ARCHITECTS 310 SOUTH 4TH AVENUE STE. 7050 MINNEAPOLIS MN 55415 CONTACT: JODI REFSLAND PHONE: (612) 332-7522

SHEET	DESCRIPTION
L-001	COVERSHEET
L-002	GENERAL NOTES
L-003	EXISTING CONDITIONS SURVEY
L-004	TREE PRESERVATION PLAN & NOTES
L-006	SWPPP
L-007	SWPPP NOTES & DETAILS
L-010	SCHEDULES
L-100	SITE PLAN
L-101	GRADING AND DRAINAGE PLAN
L-120	SEEDING PLAN
L-201	ENLARGED PLANS
L-500	LANDSCAPE DETAILS
L-501	ALTERNATE 1 LANDSCAPE DETAILS
L-502	ALTERNATE 2 LANDSCAPE DETAILS
L-503	ALTERNATE 3 & 4 LANDSCAPE DETAILS

ALTERNATES (See Sheet L-201 for enlarged plans):

- ADD ALTERNATE #1: PROVIDE TRANSECT INTERPRETIVE
- ADD ALTERNATE #2: PROVIDE BARN INTERPRETIVE
- ADD ALTERNATE #3: PROVIDE CUSTOM LOUNGERS.
- ADD ALTERNATE #4: PROVIDE WATERSHED MAP INTERPRETIVE FEATURE.
- ADD ALTERNATE #5: PROVIDE DECOMPOSED GRANITE IN LIEU OF LIMESTONE TRAIL MIX AT PAVING TYPE P-01. SEE

LANDSCAPE ARCHITECTS

PRAIRIE TRAIL

SIX MILE MARSH

MINNETRISTA, MN

COVER PAGE

GENERAL PROJECT NOTES

CONTRACT DOCUMENTS

- THE WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, READ THE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS.
- REPORT DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THE
- SYMBOLS ON PLAN DRAWING TAKE PRECEDENCE OVER SCHEDULES IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.

SITE ACCESS & PROTECTION

- STADING AREA IS WITHIN THE CONTRACT LIMIT AS INDICATED ON DRAWINGS. STAGING AREA DOES NOT INCLIDE ACCESS ROUTES THE SITE. THE CONSTRUCTION (AND REMOVAL) OF TEMPORARY STADING AREAS AND/OR ACCESS ROUTES SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY, AND EXPERKE
- CONSTRUCTION SOCIA RESPONSIBILITY AND CONTRUCT OF CONSTRUCTION RELATED VICTULES REQUIRED FOR THE WORK OF THE WORK
- NO YORK GOUMENT AND EXPENSE.

 NO YORK GOUMENT OR STAGING ID PERMITTED OUTSIDE THE
 LIMIT LINES UNLESS THE CONTRACTOR HAS APPROVAL FROM
 AUTHORITIES. COORDINATION PERMITS AND TRAFFIC CONTROL
 REQUIRED SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY A
 EXPENSE.
- CAPERISE.

 THE DOCUMENTS DO NOT SPECIFY SAFETY MATERIALS, EQUIPMENT, METHODS OR SEQUENCING TO PROTECT PERSONS AND PROPERTY. IT SHALL BE THE CONTRACTOR'S DOLE RESPONSIBILITY AND EXPENSE TO DIRECT AND IMPLEMENT SAFETY OPERATIONS TO UNIVERSITY OF THE PROPERTY OF THE PROPER

QUALITY ASSURANCE

- EXECUTE THE WORK AND SCHEDULE INSPECTIONS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL STANDARDS, LAWS AND REGULATIONS.
- ENSURE SUBCONTRACTORS, MANUFACTURERS AND SUPPLIERS HAVE THE LATEST CONTRACT DOCUMENTS PRIOR TO THE SUDMITTAL OF THEIR SHOP DRAWINGS AND/OR DELEGATED DESIGN
- REFER TO THE SPECIFICATIONS FOR REQUIRED SUBMITTALS, INSPECTIONS AND NOTICE TO PROCEED,

- THE DOCUMENTS ARE BASED ON THE FOLLOWING TOPOGRAPHIC AND UTILITY SURVEY:
- TOPOGRAPHIC SURVEY BY OTTO ASSOCIATES DATED JULY 19, 2021,
- WETLAND DELINEATION REPORT BY STANTEC, DATED JULY 9TH, 2021.
- AUST .

 SURVEYED UNDERGROUND UTILITIES ARE PROVIDED FOR INFORMATION ONLY AS THEY ARE INFERRED BY SURFACE MARKINGS AND FEATURES AND AS SUCH MAY NOT BE ACCURATE OR COMPLETE.
- ACTUAL FIELD CONDITIONS MAY VARY, FIELD VERIFY UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THEIR

GEOTECHNICAL REPORT

THE GEOTECHNICAL REPORTS ARE MADE AVAILABLE FOR INFORMATION ONLY

- THE LOCATIONS AND BIZES OF EXISTING UTILITIES & STRUCTURES (IF SHOWN) ARE APPROXIMATE ONLY, CONTRACTOR SHALL IDENTIFY, LOCATE AND PROTECT INSERROROUGH AND UVERHADD UTILITIES & STRUCTURES TO REMAIN, PROVIDE THE NECESSARY PROTECTION BEFORE CONSTRUCTION SERVICE (STRUCTURES).
- DEFORE CONTINUE THE LOCAL UTILITY COMPANIES AND/OR AGENCIES CONTINUE THE LOCAL UTILITY COMPANIES AND/OR AGENCIES CALL ACT OR CONTINUE CONTIN
- FIBER OPTIC LINES MAY BE PRESENT IN HENNEPIN COUNTY REGIONAL RAIL AUTHORITY DAKOTA TRAIL CORRIDOR.
- NORTHERN NATURAL CAS (NNG) EASEMENT EXISTS ON SITE. AN NNG REPRESENTATIVE MUST BE PRESENT AT ALL TIMES WHEN EXCAVATION WORK IS BEING DEPROMED WITHIN 25 FEET AROUND THE PIELLEL, WORK WITHIN NNG EASEMENT GHALL BE SUBJECT TO THE FOLLOWING CONDITIONS:
- A. MAINTAIN AT LEAST 30" OF COVER OVER THE PIPELINE AFTER CONSTRUCTION,

CROACHMENT GUIDELINES

- 8. REPRESENTATION: NNG REPRESENTATIVE MUST BE REPRESENTATION: NRG REPRESENTATIVE MISSI SE PRESENT WHEN EXCAVATION WORK IS BEING PERFORMED WITHIN 25 OF NNGT PIPELINE, CONTRACTOR MUST PROVID NNG A MINNESOTA UTILITY ONE CALL TICKET AT LEAST 48 HOURS PRIOR TO EXCAVATING IN THE AREA.
- ROUGE PROOF IN ECHANGAL EXCAVATION IS ALLOWED WITHIN 24" OF THE PPEUME, HAND EXCAVATION OR HYDROVAC EXCAVATION IS REQUIRED WHEN EXCAVATION 24" OR CLOSER TO NING PIPELINE.
- O. APPURTENANCES: ALL ABOVE GRADE APPURTENANCES
 SHALL NOT INTERFERE WITH GROUND PATROLS OR LEAK
 SURVEYS, ALL SIGNS, TREES, AND SHRUBS MUST BE PLACED
 A RECOMMENDED OFFSET DISTANCE OF 30° FROM NNO
- E. GRADE MODIFICATIONS: EARTHWORK AND OTHER GRADE MODIFICATION MUST MAINTAIN A MINIMUM OF 36" OF COST (OR EXISTING COVER OF LESS THAN 35") OVER NOT PIPELINE IN ALL LOCATIONS AFTER CONSTRUCTION.
- F. PAYED CROSSINGS: ALL PAYED CROSSINGS MUST CROSS
 THE NIG PIPELINE AT OR NEAR A RIGHT ANGLE AND
 MAINTAIN A MINIMUM OF 4 OF COVER OVER THE PIPELINE.
 PAYEMENT RUINING PARALLEL TO NINC'S FACILITIES MUST
 BE OUTSIDE THE EASEMENT AND OFFSET A RECOMMENDED
 DISTANCE OF 25 FROM NIG FACILITIES.

- C. HEAVY VEHICLE CROSSINGS: AS A QUIDELINE, ALL VEHICULAR CROSSINGS OVER THIS PARTICULAR WAG PIPELINE, MOUND BRANCHLINE, HAVE THE FOLLOWING ROTECTIONS (PER AXEL) WITHOUT ADDITIONAL ROTECTION: 236" COVER - 20,000 LBS.
- CROSSING PROTECTION: NNG ENGINEERING REQUESTS VEHICLE SPECIFICATIONS FOR ALL CONSTRUCTION COUPMENT EXCEEDING BO,000 LBS, GROSS VEHICLE WEIGHT OR EXCEEDING THE SPECIFIED LOAD RESTRICTIONS THAT WILL BE ANTICIPATED TO CROSS NNG FACILITIES, NNG Will be anticipated to cross and facilities. And
 Engineering Shall recommend appropriate crossing
 Protection methods, if required. Potential crossing
 Protection methods include use of TIMBER'STEELICOMPOSITE PLATE MATTING, TEMPORARY BRIDGE STRUCTURES, OR PIPELINE REINFORCEMENT
- DAMAGES: ANY DAMAGES OR MODIFICATIONS TO NNG'S FACILITIES SHALL BE REPAIRED OR MODIFIED AT THE EXPENSE OF THE ENCROACHING PARTY.
- NNG REQUIRES THAT THE ENCROACHMENT CONDITIONS ARE MET TO ENSURE PIPELINE INTEGRITY AND SAFETY DURING AND AFTER CONSTRUCTION, MIG ENGINEERING WILL CONTINUE TO REVIEW ANY REVISED CONSTRUCTION PLANS AND NEW PROPOSALS AS THEY ARE DEVELOPED.
- CONTRACTOR IS FULLY RESPONSIBLE FOR THE COST OF DAMACES WHICH OCCUR AS A RESULT OF A FAILURE TO ACCURATELY LOCATE AND/OR RETAIN UTILITIES TO REMAIN.
- UNDERGROUND UTILITIES SHALL BE INSTALLED SO THAT TRENCHES DO NOT OUT THROUGH ROOT SYSTEMS OF EXISTING TREES TO REMAIN. REFER TO TREE PROTECTION PLANS & NOTES.

- THE VERTICAL CONTROL FOR THE PROJECT IS: NORTH AMERICAN VERTICAL DATUM (NAVBB) UNLESS OTHERWISE NOTED,
- VERIFY THE LOCATION OF EXISTING FEATURES TO REMAIN THAT CONNECTTO NEW WORK, DIMENSIONAL CLEARANCES, SETBACKS AND OFFSETS AND VERTICAL DATUM. REPORT DISERPEANCES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- DEFORE PROCEEDING WITH THE TRANSPORT CONFORMS TO THE DOCUMENTS PRIOR TO PROCEEDING WITH OVERLYING TRADEWORK. REPORT DISCREPANCIES MERCHAFLIST OF THE OWNERS REPRESENTATIVE FOR DIRECTION DEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- PORTION OF THE WORK.

 COORDINATE AND COLLATE SUBCONTRACTORS SURVEYS, IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERBY EXISTING SITE CONSTRUCTORS RESPONSIBILITY TO FIELD VERBY EXISTING SITE CONSTRUCTOR PRIOR TO THE STATE OF SITE WORK, DISCREPANCY AND/OR UNFORESECT CONDITIONS FOUND SHALL BE BROUGHT TO THE MAKEDIATE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO STARTING THE SITE WORK. DO NOT BEGIN WORK IN SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
- ERECT AND INSTALL ALL WORK LEVEL, PLUMB, SQUARE, TRUE, STRAIGHT AND IN PROPER ALIGNMENT.
- DO NOT SCALE FROM DRAWINGS, USE DIMENSIONS SHOWN AND/OR SUPPLIED CAD DRAWING FILE AND SURVEY INTERPOLATION.
- DIMENSIONS NOTED "CLR" OR "CLEAR" MUST BE STRICTLY
 MAINTAINED ALLOWING FOR THICKNESS OF FINISHES, FIELD VERIFY
 PRIOR TO CONSTRUCTION.
- ANGLES ARE 80 DEGREES UNLESS NOTED OTHERWISE,
- CURVES FOR PAYING, BANDS, PATHS, EDDING AND HEADER BOARDS SHALL BE SMOOTH AND CONTINUOUS WITHOUT ABRUPT CHANGES, DRIVIOLIST ANGENTS OR BENISS. THEN EVEN IN THE METHOD GRADES AND CONTOUR LINES UNLESS GRADE BREAKS, RIDGELINGS, SWALES ARE NOIGATED OR THE METHOD. PARE A READ SHALL PITCH AT A MINIMUM OF 1M UNLESS OTHERWISE NOTED ON DRAWNINGS. DISCREPANCIES OR CONDITIONS NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE FOR RESOLUTIONS PRIOR TO CONTINUING WORK.
- 11. PEDESTRIAN SIDEWALKS AND PAVING SHALL HAVE A CROSS PITCH LESS THAN 2% UNLESS OTHERWISE NOTED TO MEET ADA REQUIREMENTS.
- REQUEST A FIELD REVIEW BY THE LANDSCAPE ARCHITECT OF THE LAYOUT OF ELEMENTS AS SHOWN, OBTAIN LANDSCAPE ARCHITECT'S APPROVAL OF LAYOUT BEFORE INSTALLING THE
- CIDST TYPICAL TRAK SECTION
- FIRST TYPICAL COMPONENTS FOR ALL INTERPRETIVE ELEMENTS
- HORIZONTAL AND VERTICAL ALIGNMENT OF PROPOSED WALKS, TRALS OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO GOMPORM TO LOCALIZED TOPOGRAPHIC COMMITTIONS REQUIRED TO GOMPORE WITH THE PROPOSED BY THE LANDSCAPE AR

WORK BY OTHERS

- COOPERATE AND COORDINATE WITH OTHER CONTRACTORS WORKING CONCURRENTLY SO AS TO NOT VIOLATE EACH OTHER'S PERMITS AND TO AVOID DAMAGE TO EACH OTHER'S WORK.
- EACH CONTRACTOR SHALL PROTECT AND MAINTAIN THEIR OWN WORK FOR THE DURATION OF THEIR CONTRACTS,
- CONTRACTOR SHALL COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SIZE

CODE COMPLIANCE

- WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LAWS, CODES AND REQUIREMENTS OF REGULATORY AGENCIES HAVING LIRISDICTION.
- NOTIFY THE OWNER'S REPRESENTATIVE OF DISCREPANCIES BETWEEN THE WORK AND APPLICABLE CODES. DO NOT WORK IN AN AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED. VERIFY CODES IN EFFECT AT THE TIME OF THE NOTICE TO PROCEED AND STAY CURRENT WITH CODE CHANGES WHICH AFFECT THE WORK UNTIL SUBSTRATIAL COMPLETION.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR CONSTRUCTION RELATED PERMITS.

- 1. THE FOLLOWING CODES ARE APPLICABLE AND IN EFFECT: MN BUILDING CODE 2021
- REVISIONS TO THE APPROVED AND PERMITTED DRAWINGS OR DOCUMENTS SHALL BE SUBMITTED TO THE CODE AUTHORITIES FOR

REVIEW. NOTIFY THE OWNER'S REPRESENTATIVE OF THE PROCESSING TIME FOR EACH REVISION SUBMITTED FOR PLAN CHECK.

- **THURT AND REPRODUCTION
 THE USE OF REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR
 ELECTRONIC FILES AS SHOP DRAWING DOCUMENTS BY THE
 CONTRACT OR IS AT THE OWN RICK, THE DESIGN CONSULT/NATIS
 ASSUMEN ON LIBRILITY AS A RESULT OF THE USE OF REPRODUCTIONS
 OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS AND/OR
 DELEGANTED DEGRION PRAYMINGS.
- THE ENTIRE CONTRACT DOCUMENT PACKAGE HEREIN IS THE CRIGINAL AND UNPUBLISHED PROPERTY OF THE OWNER AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE PRIOR EXPLICIT WRITTEN CONSENT.
- THE USE OF DIGITAL DESIGN FILES SHALL REQUIRE THE CONTRACTOR TO ACREE TO PRIME CONSULTANT'S LICENSE CONDITIONS BEFORE USE.

CONSTRUCTION LOADS, DAMAGES & REPAIRS

- THE CONTRACTOR IS SCIELY RESPONSIBLE FOR SLOPE STABILITY AND DE-WATERING DURING THE WORKS UNLESS UNKNOWN CONDITIONS ARE ENCOUNTERED.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTING THE WORKS FROM CONSTRUCTION LOADS AND DAMAGES TO EXISTING STRUCTURES TO REMAIN, NEW STRUCTURES AND NEW PAVEMENTS DURING THE WORKS,
- MOTION INE MOUNTS,

 THE CONTRACT REPLAY RESPONSIBLE FOR THE COST OF
 DAMAGIES WHICH OCCUR AS A RESULT OF A FAULER TO MITCH
 CONSTRUCTION LOADS AMONG REPORTED THE WORKS FROM
 CONSTRUCTION RELATED IMPACTS, REPAIRS SHALL BE TO A NEW
 REPTER CONSTRUCTION COMPARED TO THE EDITION CONSTITION
 BEFORE DAMAGE, AND AS APPROVED BY THE DOWNERS
 REPRESENTATION.
- NEPRESENTATIVE
 CONFIRM ON-STRUCTURE UNFORM AND POINT LOAD LIMITS WITH
 ENGINEER PRICE TO IMPORTING AND HANDLING LANDSCAPE
 MATERIALS OVER VAULTS, ANDIOR TUNNELS, INCLUDING UTILITY
 STRUCTURES, AND FLOOD CONTROL STRUCTURES.

- INCHAUNAL ROLLS?

 THE CONTRACTOR SHALL COORDINATE WITH REDPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL ANDOR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY UTILITY COMPANY FORCE AND FEEL WHICH ARE TO BE RAD TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONDIBLE FOR PAYING PEELS AND CHARGES.
- NEMOVAL ITEMS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS PECENTED ONERWISE, THE CONTRACTOR IS RESPONSIBLE OF THE CONTRACTOR IS RESPONSIBLE OF THE CONTRACTOR IS RESPONSIBLE FOR DISTANSION AGENCIES. MATERIAL AND/OR DEERIG TO ABLE TO BE RECYCLED OR REUSE SHALL BE DISPOSED OF OFF THE PROJECT SITE IN A PERMITTED
- PRIOR TO DEMOLITION, EROSION CONTROL DEVICES ARE TO BE INSTALLED WHERE NECESSARY AND OBTAIN AN NPDES STORM WATER PERMIT, REFER EROSION CONTROL PLAN.
- THREE FEMAL, REFER ENGINE CONTROL FOR CONTROL OF REMAIN, DAMAGE TO REMAING EXISTING CONDITIONS WILL BE REPLACED AT CONTRACTOR'S EXPERSE AND SHALL BE EQUIA. TO OR EXCEED THE QUALITY OF CONSTRUCTION PRIOR TO DAMAGE.
- THE COUNT OF CASAL PRESENTA AND PROTECT VESSELATION NOT TO CONTROLLING SHALL PRESENT AND PROTECT VESSELATION NOT TO CONTROLLING SHALL BE REPORTED FOR THE PLANT MATERIAL SHALL BE REPORTED TO THE ATTENTION OF THE LANGSCAPE ARCHITECT PRISO TO REMOVAL, CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF NATIVE PLANTINGS DISTURBED BY CONSTRUCTION.
- REFER TO TREE PROTECTION PLAN & NOTES FOR PRESERVATION & UTILITY WORK AT EXISTING TREES TO REMAIN.

SITE PREPARATION NOTES

- CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK
- VIONIC.

 LAYOUT, LOCATION, AND ELEVATIONS OF IMPROVEMENTS TO BE MET FOR ANOTHER) SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FILE DEVILORATIONS PROOT TO CONSTRUCTION.

 THROUGH FILE DEVILORATIONS PROOT TO CONSTRUCTION STATEMENT OF THE CONTRACTOR OF THE CONTRACTOR
- OR INTENT OF THE LAYOUT.

 CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL ON WARRAMY, UNDESIGNABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANGSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK

- GRADING LIMITS ARE DEFINED AS THE JUNCTURE OF PROPOSED GRADE WITH EXISTING GRADE UNLESS NOTED OTHERWISE.
- GRADING LIMITS AND LIMITS OF WORK SHOWN ON PLAN ARE ONLY APPROXIMATE AND MAY BE ADJUSTED IN FIELD BY LANDSCAPE ARCHITECT. FORK OUTSIDE OF THESE LIMITS WILL BE DONE AT CONTRACTORS EXPENSE UNLESS DIRECTED BY LANDSCAPE ARCHITECT OR OWNER IN WINTING.
- FILUCUT AS NECESSARY TO PROVIDE A 1% MINIMUM GRADE AWAY FROM PATHS & STRUCTURES WITISH LIMITS OF CONSTRUCTION.
- SALVAGE TOPSOIL FROM THE EARTHWORK AREAS AS APPROPRIATE OR AS ROICATED ON PLANS AND STOCKPILE FOR REUSE. STOCKPILING SHALL OCCUR ALONG EDGES OF TRAIL WITHIN LIMITS OF WORK AND BE REUSED TO TIE INTO ADJACENT GRADES PER GRADING PLAN.
- MAINTAIN A UNIFORM GRADE BETWEEN CONTOURS IN AREAS TO BE GRADED UNLESS NOTED OTHERWISE.
- ELEVATIONS, IF SHOWN ARE FINISHED ELEVATIONS, SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS,
- CONTRACTOR SHALL PROVIDE PROPER EROSION CONTROL
 MEASURES AS REQUIRED TO ENSURE THAT EROSION IS KEPT TO AN
 ASSOLUTE MINIMUM, REFER TO EROSION CONTROL PLANS & NOTES

CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANGSCAPE

ARCHITECT PRIOR TO BEGINNING OF WORK,

PLANTING

- WINDOWS, ADJUSTMENTS TO PLANTING DATES FOR APPROPRIATE SEEDING WINDOWS, ADJUSTMENTS TO PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- PREPARE SOILS IN-SITU ACCORDING TO SEEDING SPECIFICATIONS, GRADE SEED BED TO A SMOOTH, EVEN SURFACE WITH NO DEPREGISIONS, TO A MINIMUM SLOPE OF EXP, PROTECT PREPARED SEED BED FROM COMPACTION DUE TO EQUIPMENT TRAFFIC,
- IMPORTED SOIL NOT REQUIRED UNLESS STOCKPILED SOILS ARE INSUFFICIENT FOR REUSE, REFER TO SPECIFICATIONS FOR SUITA

TURF NOTES

1, NONE. PROVIDE NATIVE SEEDING ONLY; REFER TO SPECIFICATIONS.

IRRIGATION NOTES

NONE, PROVIDE NATIVE SEEDING ONLY, IRRIGATION NOT REQUIRED

- CONTRACTOR IS RESPONSIBLE FOR ONCOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF SUBSTANTIAL COMPLETION, REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO SUBSTANTIAL COMPLETION SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- WARRANTY AND PROVIDE ESTABLISHMENT MAINTENANCE OF NATIVE
- PROVIDE MONTHLY MAINTENANCE REPORTING DURING GROWING SEASON TO OWNER FOR RECORD,

BRO IECT COMBI ETION NOTES

- CONTRACTOR SHALL PREPARE AND SUBMIT A WRITTEN REQUEST FOR THE SUBSTANTIAL COMPLETION INSPECTION OF LANDSCAPE AND SITE IMPROVEMENTS PRIOR TO SUBMITTING FINAL PAY
- REQUEST.

 CONTRACTOR SHALL PREPARE AND SUBMIT REPRODUCIBLE
 AS-BUILT DRAWINGISI OF LANDSCAPE INSTALLATION, IRRIGATION
 AND SITE IMPROVEMENTS UPON COMPLETION OF CONSTRUCTION
 INSTALLATION AND PRIOR TO SUBSTANTIAL COMPLETION.

SYMBOLS

SECTION LIMIT GENTER LINE STATION POINT REVISION RECORD MATCH LINE

LARGE SCALE PLAN OR ENLARGED DETAIL

AUGN

KEY NOTE

CALLOUT LEADER

- X --- DIMENSION

DIMENSION EQUAL EXISTING X DetailTitle DETAIL CALLOUT

FTC/ FTCS FOOTING(S) GALVANIZED

ABBREVIATIONS

DIA DIM

EQ EX

GALV

QTY

APPROXIMATE AGGREGATE

CENTER LINE

CONCRETE

DIAMETER

нт MAX MFR MIN

NIC NTD ос

QUANTITY

RIGHT OF WAY SPECIFICATION

THK TYP THICK TYPICAL

W/ W/O WITHOUT

DECTION REFERENCE

R0.5254 -

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неконт

MANUFACTURER MENIMUM

NORTH NOT IN CONTRACT NOT TO SCALE ON CENTER

STAINLESS STEEL

VAR VARIES

DIMENSION TO LERANCE

LANDSCAPE ARCHITECTS 310 South 4th Avenue, Solle 7050 Minnespois, MN 55415 p: 612,332,7522

100% CONSTRUCTION DOCUMENTS 2/0/2022

SIX MILE MARSH PRAIRIE TRAIL

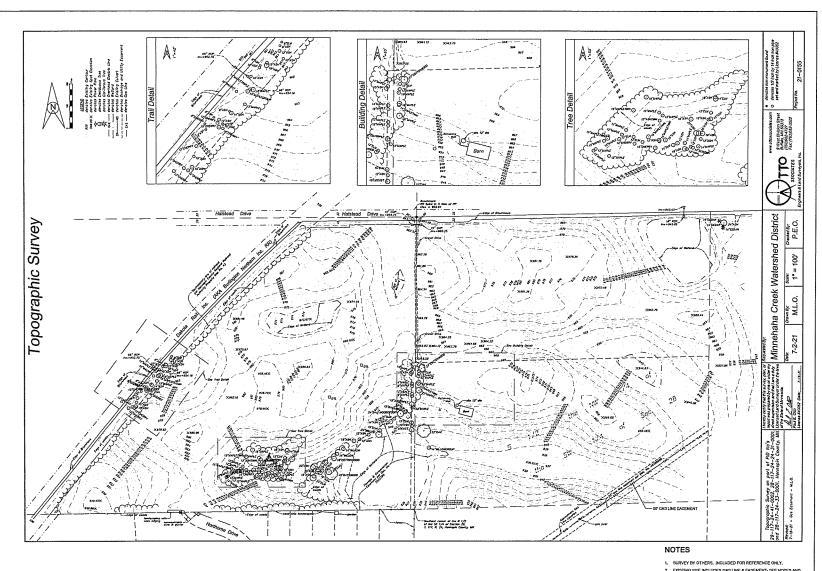
MINNETRISTA, MN

- Darent 200707

DFT Project # ... 21-131 VARIES JR, M133

> GENERAL NOTES

REVISION



DF/ DAMON FARBER LANDSCAPE ARCHITECTS 310 Seed: 4th Average, State 7550 Minergields with 50412 9-10.23327302

12.332.7522

CONSTRUCTION DOCUMENTS 2/M/2022

SIX MILE MARSH PRAIRIE TRAIL

INNETRISTA, M

I hereby swilly Dail (bin document wax propered by me or under my direct supervision and bar! arm a tility (consec-Landroupe Architect under the laws of the filtre of Minneyelle.

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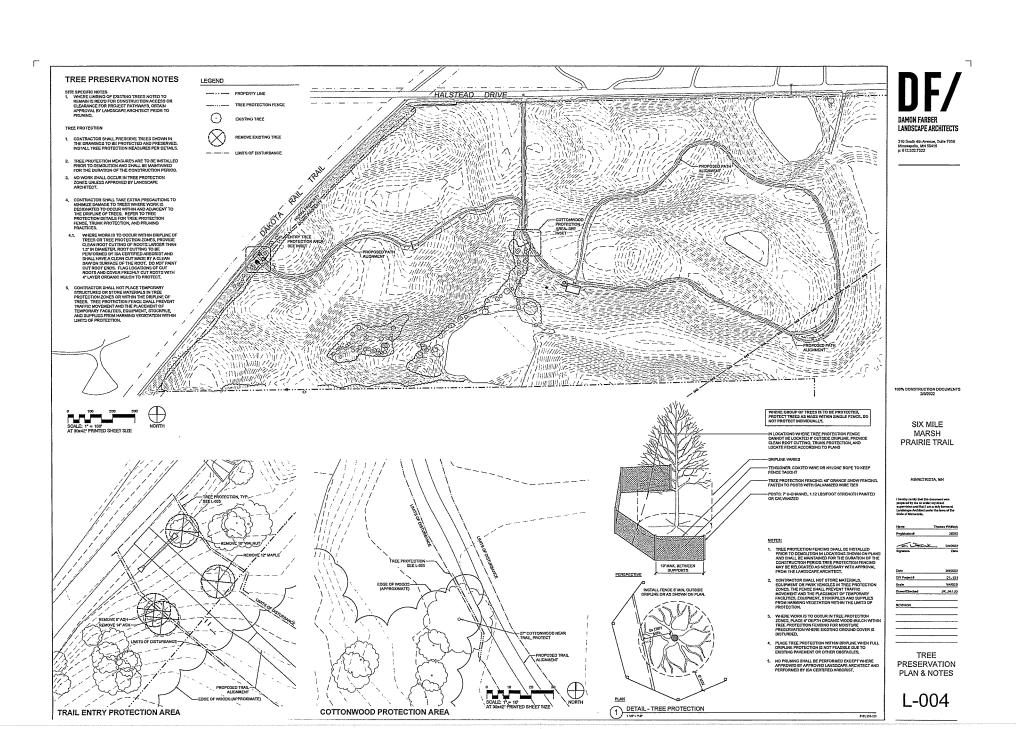
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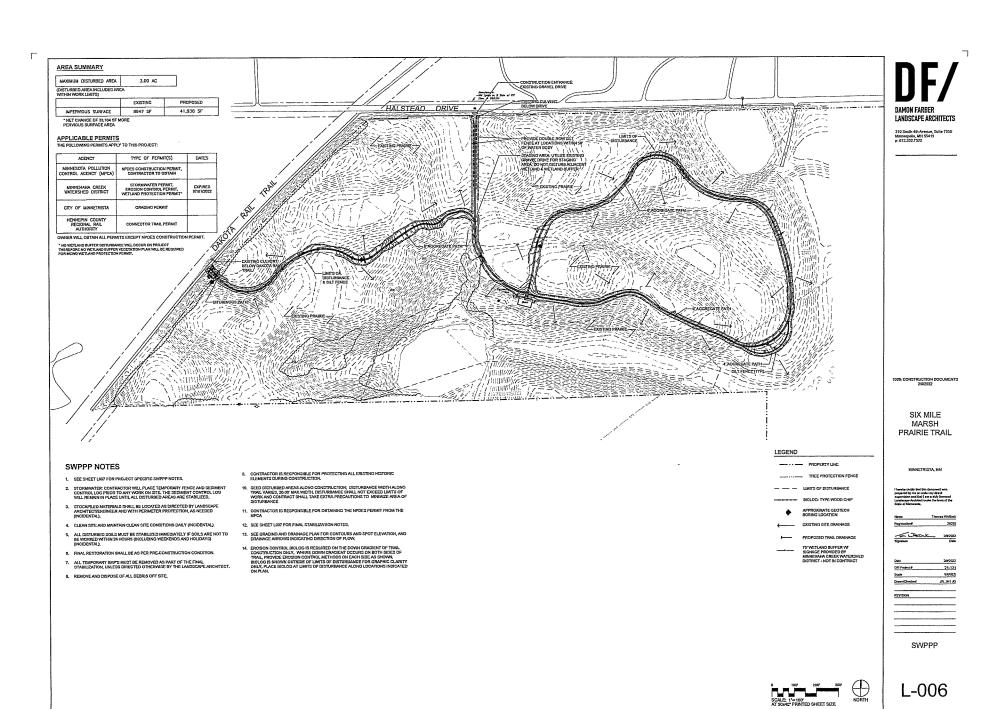
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REVIDION

EXISTING CONDITIONS SURVEY





PROJECT LOCATION LESCOMPTION
SENSE AND THE ACTION THAT POLLITION PREVENTION PLAN (SWPPP) SE CORNER OF THE INTERSECTION OF HALETAG
DRIVE A HED MADTA PAUL THAN, IN MINNETTRISTA, MIN IN HEMPING COUNTY, MIN, THIS PROJECT WILL INSTALL ANACCESSIBLE
TRUM, AND INTERPRETIVE ELEMENTS, AND RESTORM CANTEV VEGETATION.

AREA DISTURBED IS DREATED THAN 1 ACRE AND INCLUDES ACORDICATE AND BITLANINOUS TRAILS, INTERPRETIVE ELEMENTS, STADICA GARGE, AND ACCESS TO STEP FROM HALSTEDS DRIVE, THIS PROJECT WILL ADDRESS PHOSPHORUS AND DISBIDITY POLILUTANTS AND NOT CREATE A CHANGE IN TEMPERATURE OF STORM WATER DISCHARGE, THE ULTIMATE RECEIVING WATER IS SEMILE CREATE OF GROUND WATER INFILITATION, DIFFICE, SAIN LECT, AND DULVERTS.

THE POTENTIAL POLLUTANTS GENERATED FROM THIS WORK INCLUDE THE FOLLOWING: STONE DUSTS, PORTLAND CEMENT, SEDIMENTS, BITUMINOUS BYPRODUCTS.

RECEIVING SURFACE WATERS AND ENVIRONMENTALLY SENSITIVE AREAS:
THE RECEIVING WATER FOR STORM WATER RUNOFF FROM THIS PROJECT IS SIX MILE CREEK AND UNMAMED WETLANDS, SIX MILE CREEK IS AN IMPAIRED WATER BODY.

SOIL TYPES: SOIL BORING DATA TO BE PROVIDED BY GEOTECH, REFER TO PLAN FOR BORING LOCATIONS.

INVASIVE SPECIES:
IF NOXIOUS WEEDS FROM THE MIN DEPARTMENT OF AGRICULTURE NOXIOUS WEED LIST ARE OBSERVED, NOTIFY THE PROJECT HAMARIDE OF INDIFFERING BEFORE REMOVING.

LONG TERM MAINTENANCE AND OPERATION
CONTRACTOR SPALL BE RESPONSIBLE FOR MAINTENANCE WITHIN CONSTRUCTION LIMITS FOR THE DURATION OF
CONSTRUCTION, MINNEHAM, CREEK WATERSHED DISTRICT IS RESPONSIBLE FOR LONG-TERM MAINTENANCE.

PROJECT DESCONSE, AND TRAINING
CONTINUOUS REPORT OF CHIEF THE PROJECT CONTINUOUS REPORT OF CONTINUOUS REPORT PROJECT DESIDES OF THE APPLICATION OF EROCION CONTINUOUS REPORT PROJECT DESIDES OF CONTINUOUS REPORT PROJECT DESIDES OF CONTINUOUS REPORT OF RE

PROVIDE AT LEAST ONE CERTIFIED HISTALER FOR RACH CONTINUED OR BLIGOCITIMATOR THAT INSTALLS THE PRODUCTS LINTED BE REFERENCIATION SECTION STADLAL CERTIFIED HISTALLERS, ROYOUR FOROUR FOR CERTIFICATION AT THE PRE-CONSTRUCTION MEETING, WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT PROMISERS.

CHANGE PERSONNEINLITY
THE OWNER AND GONTRACTOR SHALL BE CO-PERMITTEES FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (RPDES) CONSTRUCTION PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR GREANING THE PRESS PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMMEY WITH ALL ARREST OF THE ROSES CONSTRUCTION PERMIT AT ALL TIME UNIT. THE NOTICE OF RESPONSIBLE TO COMMEY WITH ALL ARREST CONSTRUCTION PERMIT AT ALL TIME UNIT. THE NOTICE OF CONSTRUCTION OF THE STEED OF THE

PROJECT CONTACTS
THE CONTRACTS IS RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE
OF THE EROGION PREVENTION AND GEOMETH CONTROL BURS BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL THE NOTICE
OF TERMINATION BOYON THAS EEDER HELD, REFER TO COVERE PROJECT FOR THE CONTROL TO

SITE INSPECTION AND MAINTENANCE CONTACT INFO, AND TRAINING DOCUMENTATION FOR THE PERSON RESPONSIBLE FOR SWPPP IMPLEMENTATION AND INSPECTION/MAINTENANCE OF BMPS.

INSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHOUT AND HOUSE AFFER A RAWRALL EVERT GREATER THAN 63 INCHES WHITHIN AS HOUR TIME FRAME. INSPECT LAW THE ACTIVE ACTIVE AND ACTIVE THAN 64 INCHES THAN 18 INC

- OFF SITE EIGHNET ACCUMULATION.

 RECORD ALL INDEPCTIONS AND MANTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS, SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT FRONCES. FOR PROJECTION AND MANTENANCE TO PROHIBITED WATERS, CONDUCT ROUTING BITE INDEPCTIONS AND AND MANTENANCE ACTIVITY:

 BICLUSE THE FOLLOWING IN THE RECORDS OF EACH INSPECTION AND MANTENANCE ACTIVITY:

 A NAME OF PEDEONS CONDUCTION INSPECTIONS

 C. PRINCES OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIVISE.

 C. PRINCES OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIVISE.

 C. PRINCES OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIVISE.

 C. PRINCES OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIVISE.

 DATA FAIR MOUNT OF ALL PROVING LEVERTS OF SEATEST THAN AS SINCE IN SHAP HOURS.

 F. DOCUMENTS AND CHANGES MADE TO THE SWYPP REPREACE, REPAIR OR SUPPLEMENT ALL INSPECTIONAL BAPS BY IN THE TIME PROVIDED BELOW.

 FINE THE PROVINGE BELOW.

 FINE THE PROVINGE SAME OF THE DEVICE, COMPLETE REPAIRS OF THE SEATE THAN AS SINCE IN SECONDS NON-UNCENTRAL BAPS BY IN THE LEGAL OF THE DEVICE COMPLETE REPAIRS OF THE SEATE ACTIVITY.

 FINE CONTROL OF THE DEVICE COMPLETE REPAIRS OF THE SEA OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.

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 FINE CONTROL OF THE DEVICE COMPLETE REPAIRS OF THE SEA OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.

 CONTROL OF THE DEVICE COMPLETE WORK WITH YEAR OF DISCOVERY. PREVAMENT BUSINESS PLAN FOR WORKING IN SURFACE WATERS.

 E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24 HOURS OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO
- SWEEPING
 F. MATION ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOTICE
 OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

<u>LOCATION OF SWPPP REQUIREMENTS</u>
THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET,

TIMING OF BMP INSTALLATION:
DISTURBED, EXPOSED SOILS MUST BE STABILIZED IMMEDIATELY BY SEEDING AND MULCHING ANDIOR RIPRAP WITH FILTER
FABRIC IF THE SOILS ARE NOT TO BE WORKED WITHIN 24 HOURS (INCLUDING WEEKENDS AND HOLIDAYS).

A SITE PLAN DETAILING PROPOSED EROSION CONTROL AND SEDIMENT CONTROL MEASURES AND A SCHEDULE INDICATING STARTING AND COMPLETION TIMES FOR CONSTRUCTION OPERATIONS SHALL BY SUBMITTED TO LANDSCAPE ARCHITECT BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT START WORK UNITL HE SCHEDULE AND SITE PLAN HAVE BEEN AGCEPTED.

- THE CONTRACTOR. THE CONTRACTOR SHALL NOT START WORK UNIT. HE SCHEDULE AND STITE PLAN HAVE BEEN ACCEPTED.

 CENTRACI SHOP DATES FOR CONSTRUCTION ACTIVITY.

 1. CONTRACTOR SHALL ARRIVED THE SWIPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWIPP AND ASSOCIATED PLAN SHEETS WITHOUT YORK UPON HIM PROPERTY OF THE SWIPP AND START SHAPP AND ALL CHANGES TO SHEET ALL TIMES.

 2. CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLAN AS THE MANAGEMENT PLAN AREAS, AND WORK IN AND HEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLAN AND AST THE MANAGEMENT PLAN AREAS, AND START SHAPPING THE AREAS OF THE SWIPP AND SHAPPING THE AND SHAPPING THE ASSOCIATION OF THE SWIPP ASSOC

- LET. CHARGES FROM BMPS TO VEGETATED AREA WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS
- 7. DIRECT DISCHARGES FROM BIM'S TO VIGETATIO AREA WINNEVER HASHIBLE, MICHIDE VELCUIT I DISCHARII IN EVENESA PREBIOD TO PREVENTI FICIORIO.

 B. CHERCE TO THE VIGETATI FICIORIO.

 B. CHERCE TO THE VIGETATION OF THE PROPERTY OF THE VIGETATION OF THE V
- CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

 10. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT

OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS, PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT

INTERVALE.

INTERV

INCEDITION.

INCED

EROSION CONTROL MESSURES;
THE CONTRACTION RESPONSIBLE FOR MINIMIZING SOIL EROSION AND PREVENTING DAMAGE TO ADJACENT WETLANDS AND WATERBOOKES FROM SEDIMENTATION OVER THE VARIOUS STACES OF CONSTRUCTION AT SEASONAL TIMES DURING THE YEAR FOR THE CURRING OF THE CONTRACT.

THE CONTRACTOR SHALL REPORTED FROM THE ENGINE CONTROL DEVICES FOR STOOPHILL AREA, (INCIDENTAL). FLACE, BUY ANNIMAN FOR THE FROM THE TOP OF SORE WHERE FROM THE OWN FLACE STOOPHILES IN NATURAL SUFFRAGE, SUFFACE WATERS OR STORMWATER CONVEYANCES, STOOPHILMS SHALL DOCUR ALONG EDGES OF TRAIL WITHIN LIMITS OF WORK AND BE REVISED TO TEXT INTO ALLOCENT ORDIOS FOR ENGANING PLAN.

PRARIEMETLAND VEGETATION, CONVEYANCE, AND OUTFALLS MUST BE PROTECTED FROM CEMENTITIOUS MATERIALS, SEDIMENTS, AND CHEMICAL, CLEANING AGENTS BY AVIOLANCE, USE OF PLASTIC GHEETING, COMPOST FILTER LOSS ON OTHER PROLICET EXCINESE APPROVED METHODS, THE CONTRACTOR SHALL PREVIOUR DICCHARGE TO SURVICE AND GROUND WATERS BY VACUUM OR OWER COLLECTION OF CEMENTITIOUS MATERIALS, CLEANING AGENTS FROM PLASTIC GROUND COVERS, MATS, OR OTHER PROJECT ENGINEER APPROVED METHOD.

RUTS OR DAMAGED PRAINEWETLAND VEGETATION THAT COULD CREATE SEDIMENT DISCHARGE TO ADJACENT RIVER AND CONVEYANCE SYSTEMS MUTS HE REPAIRED WITHIN 34 HOURS WITH SHAWING, SEEDIM, AND CERTIFIED WEEP FREE STRAW MULCH MATERIALS. EFFORT MUST BE MADE TO PREVENT REOCCURRENCE OF SOIL DISTURBANCE BY PROTECTIVE SOIL COVERS.

TO PROTECT INLETS AND ADJACENT WATER BODIES OVER THE LIFE OF THE CONTRACT, PICKUP (ENCLOSED SKIDSTEER BROOM) SYKEPING OF PAYED CURFACES WILL BE REQUIRED, AS INCESSARY TO KEEP SEDMIKHTS, MUD, DIRT, ROCK, OR OTHER MATERIALS FROM LEAWING THE AVEN SURFACE OUL TO PAIN OR VEHICLE TRACKING.

CULVERT ENDS AND STORM DRAINS WILL BE PROTECTED FROM SEDIMENT DISCHARGE USING INLET PROTECTION.

SLOPED GRADES MUST BE PROTECTED, SOIL IN DISTURBED AREAS SHALL BE KEPT IN A PERPETUALLY STABILIZED CONDITION

SOFT SOIL CROSSING WILL REQUIRE DRIVABLE MATS CAPABLE OF MINIMIZING SOIL DISTURBANCE FOR THE CONTRACTORS' EQUIPMENT, THIS MAY BE ACCOMPLISHED BY USE OF PLYWOOD, MUD MATS, OR STRUCTURAL PLASTIC BASE UNITS,

PERIMETER CONTROL BMPS SHALL BE KEPT IN A FUNCTIONAL CONDITION, REGARDLESS OF NUMBER OF MOVEMENTS TO ACCOMMODATE THE CONTRACTORS OPERATIONS.

TRASH AND CONSTRUCTION DEBRIS SHALL BE PICKED UP AT THE END OF EACH DAY AND PLACED IN DUMPSTER OR OTHER SUITABLE CONTAINERS, AND REMOVED AS NECESSARY TO REMAIN FUNCTIONAL.

BOLLIDIO DERVINTION

MARAGOLIA RICHINIO SILCHAS OIL AND FUEL MUST BE PROPERLY STORED, INCLUDING SECONDARY CONTAINMENT, TO
PREVENT SPILLS, LEAVE, OR OTHER DISCHARGE FROM ENTERING RECEIVING WATERS, RESTRICTED ACCESS TO STORAGE
RAGEA MUST DER POWOEDE TO PREVENT VANOLIBIS. STORAGE AND DISPOSA, OF HAZAROUS WASTER MUST BE IN COMPUNIONE
WITH MERA RECOLLATIONS. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A SITE FLAN FOR REPUBLING METHODS.
REFUELING AREA MUST BE OIL VEICL ORGANIZACION TO LEGAT STEPS FROM ADJACKET REFUEL THE CONTRACTOR
GHALL MANTIAN ADGILATE SUPPLIES OF ABSORBENT SPILL CLEANUP MATERIALS AND SPILL NITS IN FUELING AREAS AND ON
MORLE PELLING EQUIPMENT.

CHEMICAL SPLLS SHALL BE IMMEDIATELY PICKED UP, INCLUDING FERTILIZERS AND PORTABLE URINALS, SPLLED MATERIALS SHALL BE PROPERLY IDEDUCED OF CIN, IN THE CASC OF FERTILIZER, SPIEZA ACCORDING TO MANUFACTURERS RECOMMENDATIONS FOR NPK, OR AS INCLICACED IN THE LITTLE RESTORATION PLAN. THERE SHALL BE NO COURIENT WASHING ON STEUNESS IN A PREAPPROVED BY THE PROJECT ENGINEER, AND IN A DESIGNATED SITE WITH TOTAL POLLUTION MANUGRICHEP FORCEM THAT PREVIOUS TAIL, FUND AND WATER FOLLUTION.

MORTAR AND CHEMICAL MIXING, SAWING, AND CUTTING OPERATIONS SHALL HAVE SECONDARY CONTAINMENT TO PREVENT CEMENTITIOUS LIQUIDS, SOLIDS AND DUSTS FROM INFILTRATING INTO THE GROUND, ADJACENT RIVER, OR TRANSPORT BY MEANS TO THE CUTTER, SIGNAMAL OR ROAD SUFFACE.

BITUMINOUS ASPHALT, CONCRETE, OR STONE SAW CUTTING SHALL BE PREVENTED FROM ENTERING STORM WATER CONVEYANCE SYSTEMS AND RECEIVING WATERS BY USE OF SEDMENT CONTROLLOG TYPE COMPOST, AND REPLACE AS OFTEN AS NECESSAY TO REMAIN FUNCTIONAL TO FLITERREMOVE FINE GEMENTITIOUS DISCHARGE.

FINAL STABILIZATION:
WITHIN TWO YEARS OF PRINCHED SITE GRADINO, DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, MILCH OR ROCK
BASE, FINAL STABILIZATION WILL, OCCUR WHEN SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND SOILS
ARE STABILIZED OF AUDIFORM PERCHANAL VEGETATIVE COVER WITH A DEBUTY OF PERCENS OF TIS EXPECTED FINAL
CROWNI DEBUTY OVER THE ENTIRE PERVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL
FAULURE LINESE REGOVER CONDITIONS, AND

TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL BMPS (SUCH AS SILT FENCE) HAVE BEEN REMOVED ON THE PORTIONS OF THE SITE FOR WHICH THE CONTRACTOR IS RESPONSIBLE. BMPS DESIGNED TO DECOMPOSE ON SITE (SUCH AS SOME COMPOST LOGS) SHALL BE SPLIT AND THE FABRIC REMOVED.

- Initiate inlet stabilization immediately when construction has temporarly or permanently ceased on any
 portion of the site. Complete stabilization within the time frame listed. In wary instances that shill resulte
 stabilization to occur more than once during the course of the replacet, temporary soil stockyres
 without significant clay or silt and stockheld and constructed road base are not appropriate and
 therefore except from the signilization recommend.
- APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.
- STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER, ANY WORK STILL BEING PERFORMED WILL BE SNOW MUICHED, SEEDED, AND BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.
- 11. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES AND BLANKETS

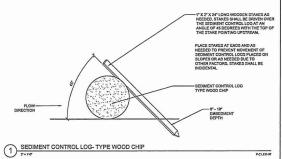
DESCRIPTION OF PERMANENT STORMWATER TREATMENT SYSTEMS.
RESTORED PRAIRIE AND EXISTING NATIVE VEGETATION SHALL SERVE AS PERMANENT STORMWATER TREATMENT.

RECORD RETENTION
THE OWPP, ALL CHANGES TO IT AND HISPECTION AND MINITEMANCE RECORDS MUST BE KEPT ON-SITE DURING
THE OWPP, ALL CHANGES TO IT AND HISPECTION AND MINITEMANCE RECORDS MUST BE KEPT ON-SITE OF THE RECORDS FOR THREE (2)
YEARS AFTER SUBMITHAL OF THE MOTILE OF TERMINATION (NOT).

1. ANY OTHER PERMITS REQUIRED FOR THE PROJECT.
2. RECORDS OF ALL INSPECTION AND MAINTEMANCE CONDUCTED DURING CONSTRUCTION
3. ALL PERMANENT OPERATIONS AND MAINTEMANCE CONDUCTED DURING CONSTRUCTION
WAY, CONTRACTS, CONDUCTATE OF THE MINISTER OF THE THANK BEEN MELEMENTED INCLUDING ALL RIGHT OF
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100% CONSTRUCTION DOCUMENTS 2/8/2022

SIX MILE MARSH PRAIRIE TRAIL

- Utrak

21-131 JR, JH / JG REVISION

SWPPP NOTES & DETAILS

I - 007

DYMOOL	PAVINO DESCRIPTION	CTY	DETAIL	MATERIAL PROFILEIADSEMBLY	MANUFACTURER	PRODUCT/MODEL	COMMENTS	LOCATION	SPEC #
(P-01)	PAVING TYPE 1-AGGREGATE	35,217 SF	1/1-500	2" THK LIMESTONE TRAIL MIX OVER 6" COMPACTED CLASS 5 BASE OVER COMPACTED SUBGRADE	REGIONAL SOURCE		SEE SPECIFICATIONS FOR TRAIL SURFACE GRADATION, PROVIDE GEOTEXTILE FABRIC TYPE 5 AT LOW LYING AREA INDICATED ON PLAN		32 15 46
Pag	PAVING TYPE 2 - DITUMINOUS	656 SF	2/1-500	J' THK DITUMINOUS PAVING OVER 8" THK CLASS 5 BASE OVER GEOTEXTILE FABRIC				REGIONAL TRAIL ENTRANCE	32 12 96
DYMBOL	GITE FURNITURE DESCRIPTION	gry	DETAIL	MATERIAL PROFILE/ASSEMBLY	MANUFACTURER	PRODUCT/MODEL	COLOR/FINISH	COMMENTS	SPEC#
SF-01	PICNIC TABLE	2	C/L-500	0" HEAVY DUTY TABLE, TREATED WOOD TOP & METAL FRAME		PARK MASTER-UNIVERSAL	TREATED WOOD TOP, GALVANIZED STEEL FRAME	SECURE WITH CHAIN ANCHOR POST, SEE	32 23 00
84-02	BIKE RACK	2		HOOP BIKE RACK, EMBEDDED	DERO		STAINLESS STEEL	EMBEDDED WI EPOXY GROUT PER MER	32 23 00
	TREE PREDERVATION								HALLEN.
SYMBOL	DESCRIPTION REMOVE TREE	QTY 4	DETAIL						
	TREE PROTECTION FENCE	204 LF	1/1004						
EYMBOL	ALTERNATE DESCRIPTION	OTY	DETAIL						EURIO I
31moor.	ADD ALTERNATE #1: PROVIDE TRANSECT	11.5	L201						
	ADD ALTERNATE #2: PROVIDE BARN INTERPRETIVE FEATURE	113	LZ01						
	ADD ALTERNATE #3: PROVIDE CUSTOM LOUNGERS	1 L3	LZ01						
	ADD ALTERNATE #4: PROVIDE WATERSHED MAP INTERPRETIVE FEATURE	LLB	1201						
	ADD ALTERNATE #5: PROVIDE DECOMPOSED GRANITE IN LIEU OF LIMESTONE TRAIL MIX AT PAVING TYPE P-01.	217.4 CY	1/L500						

DAMON FARBER Landscape Architects

310 South 4th Avenue, Suite 7050 Minneapolis, MN 55415 p: 612,332,7522

PLANT SCHEDULE
GROUND COVERD CODE GTY
1,741 SF WOODLAND EDGE WATER SECD MICE
MINDOT 39-211 AT 34.5 LIDRACRE

REMARKS
PROVIDE COVER CROP
-SPRING SEEDING: OATS AT 25 LISSAC
-FALL SEEDING (AUG 1 - OCT 15): WINTER WHEAT AT 25 LISSACRE

PROVIDE COVER CROP
-OPRING SEEDING: OATD AT 25 LBS/AC
-FALL SEEDING (AUG 1 - OCT 15): WINTER WHEAT AT 25 LBS/ACRE

PROVIDE COVER CROP
-SPRING GEEDING: OATS AT 35 LBS/AC
-FALL SEEDING (AUG 1 - OCT 15): WINTER WHEAT AT 25 LBS/ACRE

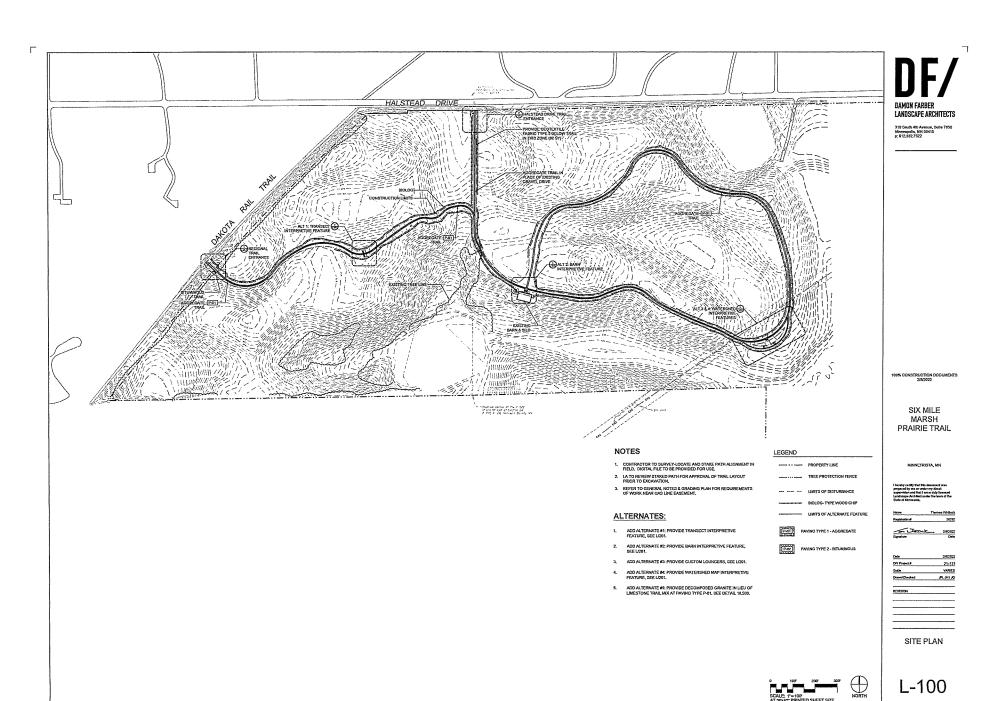
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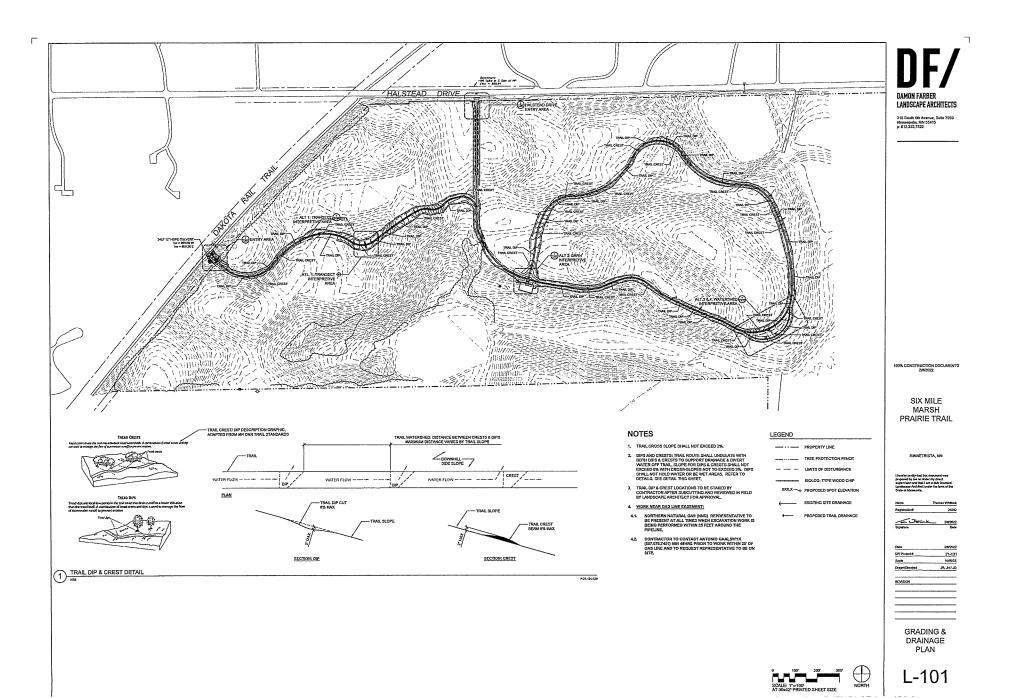
SIX MILE MARSH PRAIRIE TRAIL

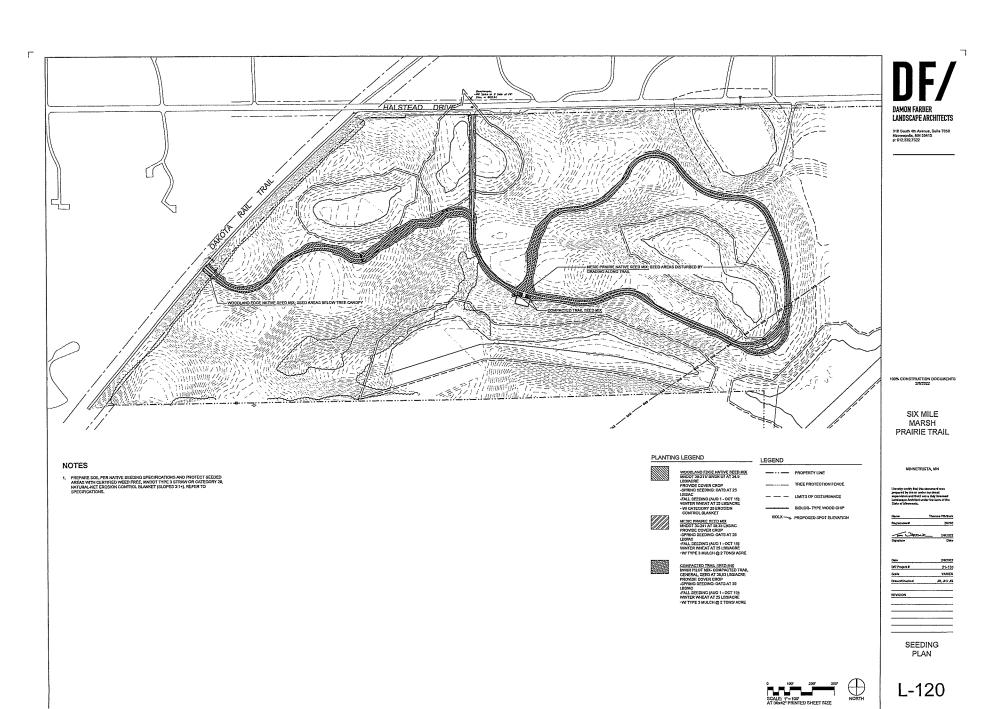
MINNETRISTA, MN

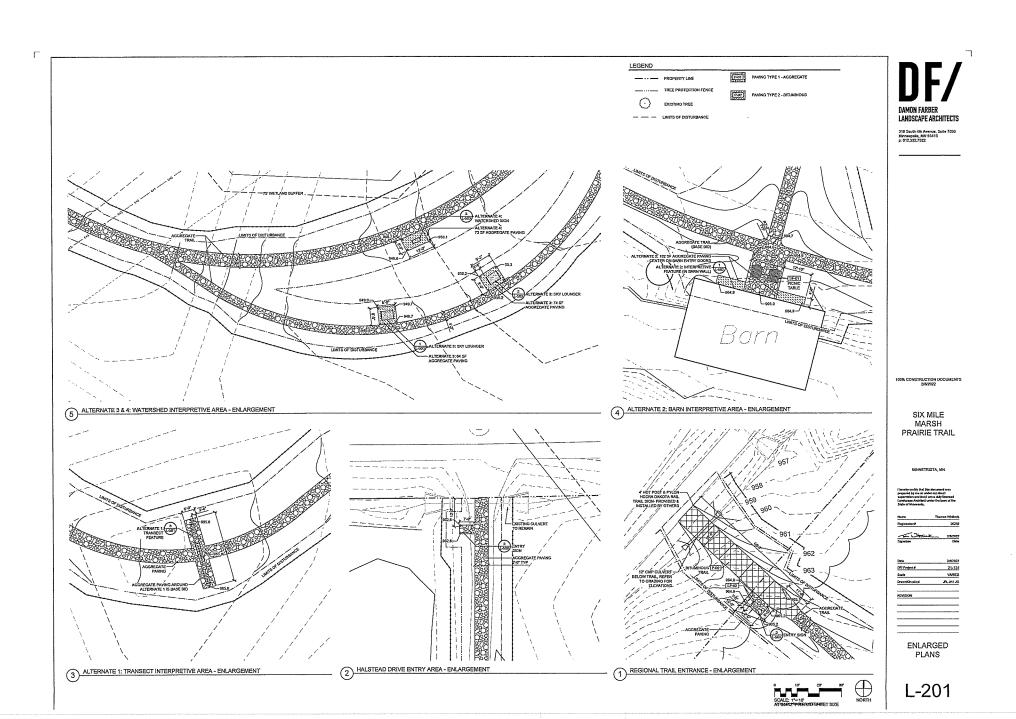
YARKS JR, JH / JG

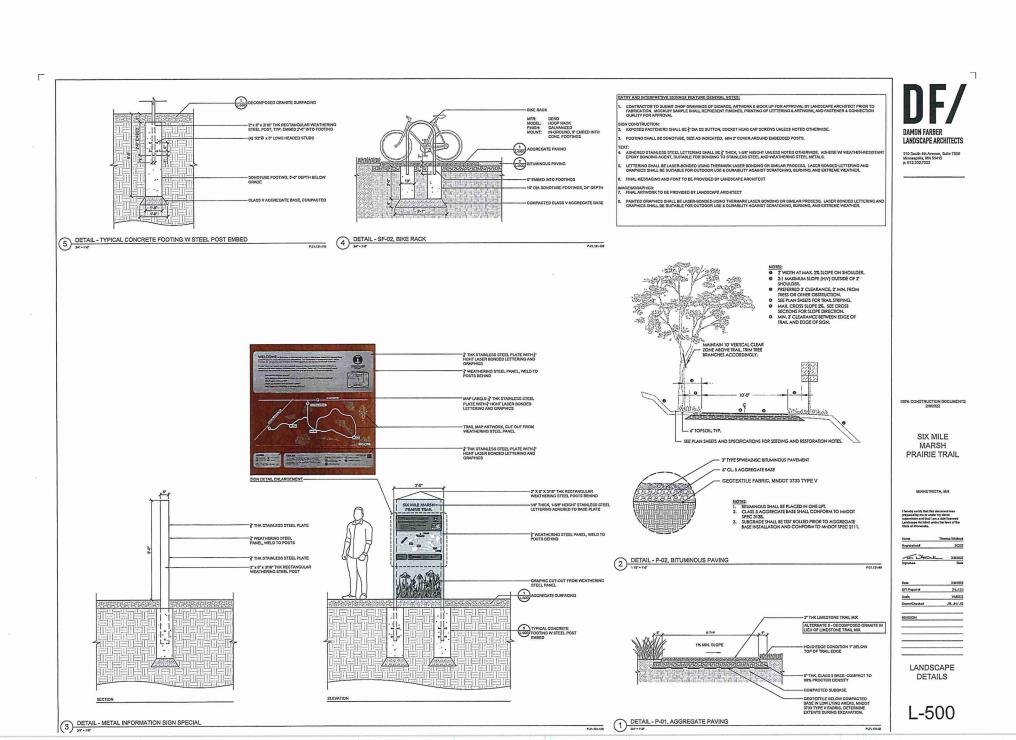
SCHEDULES

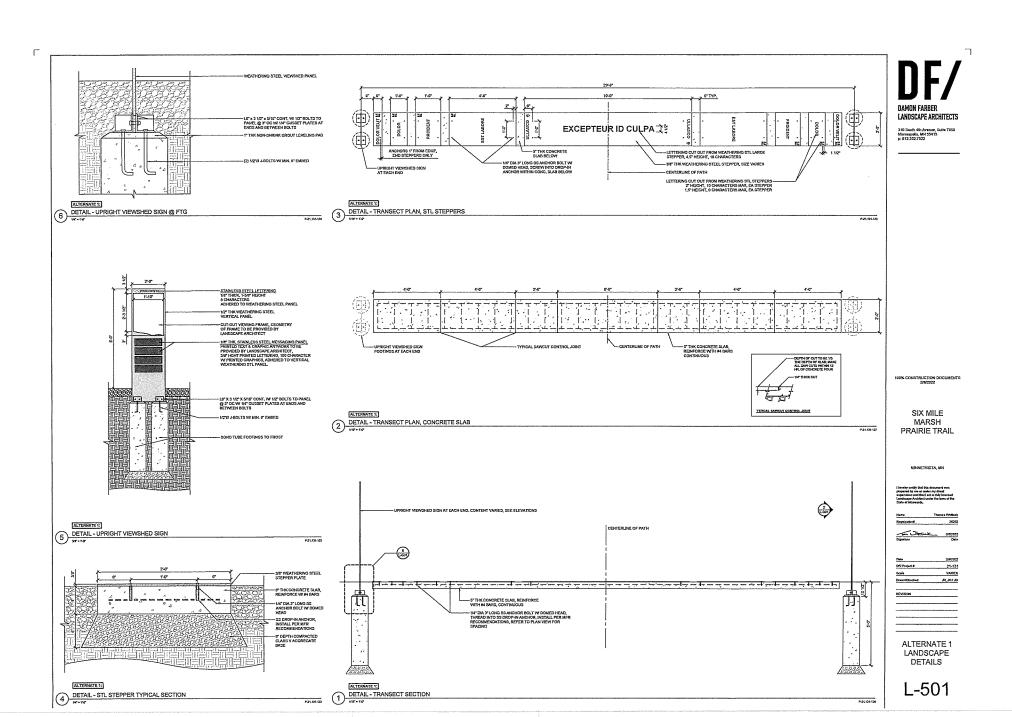


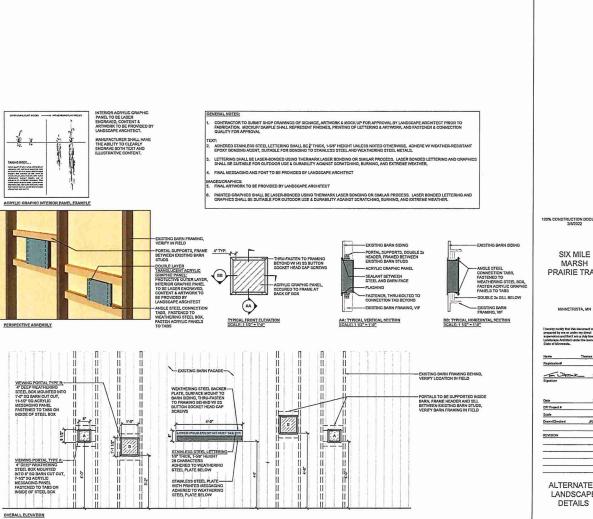












LANDSCAPE ARCHITECTS

100% CONSTRUCTION DOCUMENTS 2/8/2022

SIX MILE MARSH PRAIRIE TRAIL

MINNETRISTA, MN

21-131 JR, JH/ JO

> ALTERNATE 2 LANDSCAPE

L-502

DETAIL - VIEWING PORTALS

