



Anoka County
MINNESOTA

Respectful, Innovative, Fiscally Responsible

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

763-324-3176

highwaypermits@anokacountymn.gov

PERMIT NUMBER

24-601

RIGHT OF WAY

COMMERCIAL ACCESS

CSAH 28

APPLICATION FOR PERMIT FOR INSTALLATION OF UTILITIES OR PLACING OBSTRUCTIONS ON THE COUNTY HIGHWAY SYSTEM
ALL APPLICANTS MUST BE REGISTERED PRIOR TO PERMIT APPROVAL

APPLICANT NAME **Landwehr Construction, Inc.**

CONTACT PERSON **Nathan Mechtel**

ADDRESS **PO Box 1086**

CITY **ST CLOUD MN**

PHONE NUMBER **3202521494**

EMAIL **permits@landwehrconstruction.com**

COMPANY OR INDIVIDUAL PERFORMING WORK **Landwehr Construction, Inc.**

CONTACT PERSON **Nathan Mechtel**

EMAIL **permits@landwehrconstruction.com**

PHONE NUMBER **320-252-1494**

PERMIT WORK TO START **10/07/2024**

SAP-002-628-008

PERMIT WORK TO BE COMPLETED **11/27/2024**

DURATION OF JOB **3 weeks**

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT? **No**

ANOKA COUNTY PROJECT NUMBER

WORK SITE ADDRESS **csah 28 over Seelye Brook**

CITY **St. Francis**

METHOD OF INSTALLATION/CONSTRUCTION **Installing bridge**

NATURE OF WORK **Replacing existing bridge**

SAP 002-628-008 - per approved plan

SURFACE TO BE DISTURBED

SITE PLAN

IF THE ROADWAY IS ENCROACHED, YOU MUST ATTACH A TRAFFIC CONTROL PLAN AND/OR REFERENCE THE MOST CURRENT VERSION OF THE MN TEMPORARY TRAFFIC CONTROL FIELD MANUAL (3+ DAYS REQUIRES PLANS TO BE SIGNED BY A LICENSED PE).

DITCH/BLVD



GRAVEL

All traffic control in accordance with the most current Mn Temporary Traffic Control Field Manual

BITUMINOUS

CONCRETE

NONE

IS SIGNING AND STRIPING REQUIRED? **Yes**

DEPTH FROM SURFACE **13'**

(60" minimum under county roads)

SIZE AND KIND OF PIPE/CABLE **N/A**

NUMBER OF EXCAVATIONS **1**

SIZE OF EXCAVATIONS **60x20x13**

(Length, width, and depth)

LOCATION OF EXCAVATIONS ALL EXCAVATIONS ARE TO BE PROTECTED AT ALL TIMES AND THEN BACKFILLED WHEN UNATTENDED AND/OR OVERNIGHT

Specific written descriptions of excavations - if shown on attached drawing, drawing shall be specific with depth and distance from centerline, curb, or other distinguishable location. Traffic control plans cannot be approved without specific excavation descriptions.

In Seelye Creek

002-628-008 - per approve plan

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY

ACTD reserves the right to make changes to these special conditions.



Anoka County

MINNESOTA

Respectful. Innovative. Fiscally Responsible

ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

GENERAL INFORMATION

One permit must be approved for each county road on which work will be performed prior to any work within the right of way by any utility/contractor. Emergency conditions which threaten the safety of the public and require immediate repair are exceptions to this rule. Under those circumstances, the utility/contractor is permitted to begin and/or complete the necessary repairs. The Anoka County Transportation Division (ACTD) shall be notified of emergency repairs as soon as feasible and a written permit is to be completed within two business days of occurrence.

A license-permit bond is generally required of the contractor as part of the registration process, the amount of which will be determined by the nature of the utility work.

A sketch or drawing shall accompany each permit application which will show the location of the proposed work/utility with reference to the county highway center line and right of way line. A complete set of plans is required for all sewer/water projects.

It shall be the responsibility of the applicant to determine which of the special conditions apply to each permit.

ACTD reserves the right to revoke any utility permit and halt work, if, upon inspection of any job site, the special conditions are not met, and/or a hazard exists for the applicant or public safety is threatened. **The failure to comply with the terms and conditions of any applicable Federal, State, Regional, and local laws, rules and regulations, including any provision of Anoka County's Right-of-Way Ordinance shall be cause for immediate revocation of a permit.**

The applicant shall notify ACTD immediately upon completion of project so that the ACTD can inspect the site to determine if restoration has been satisfactorily completed.

The undersigned hereby accepts the terms and conditions of this permit and the regulations of Anoka County, and agrees to fully comply therewith to the satisfaction of the ACTD. The county of Anoka, its officials, employees, and agents, shall be held harmless, by the applicant/permittee, from any demands, claims, lawsuits, or damages relating to the work described in this permit.

APPLICANT'S SIGNATURE Signed by: 	DATE 9/24/2024
---	--

5CC128E6093847D...

AUTHORIZATION OF PERMIT

In consideration of the applicant's agreement to comply in all respects with the regulations of the ACTD covering such operations, permission is hereby granted for the work to be done as described in the above application. Said work to be done in accordance with the general conditions listed above and the special conditions required as hereby stated. It is expressly understood that this permit is conditioned upon replacement or restoration of the county highway and its right of way to their original or to a satisfactory condition. It is further understood that this permit is issued subject to the approval of local city or township authorities having joint supervision over said street or highway.

APPROVED BY: DocuSigned by: 	DATE 9/24/2024
--	--

65E91FE156D44EE...

NOT VALID UNLESS SIGNED BY ANOKA COUNTY

THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY
ACTD reserves the right to make changes to these special conditions.



ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

SPECIAL CONDITIONS

TRAFFIC CONTROL

- 1) Detours
 - a) Detailed detour layouts shall be submitted to the traffic engineer for approval.
 - b) No detours shall be permitted without prior approval of the Anoka county traffic engineer.
 - c) A ten day notice must be given prior to the installation of any detour.
 - d) It shall be the responsibility of the applicant to notify Anoka county central communications, local government bodies, and any affected bus companies ten days prior to any road closures/detours.
 - e) Immediately upon completion of work and/or detours, all posts, barricades, and signs shall be removed from the right of way.
- 2) Traffic control devices
 - a) All traffic control devices, barricades, flashers, etc., shall be furnished by the applicant and shall be in accordance with the most recent edition of the Minnesota manual on uniform traffic control devices and temporary traffic control zone layouts – field manual of the same manual.

CONSTRUCTION REQUIREMENTS

- 1) Open cutting of bituminous or concrete surfaced roads will be allowed only at the discretion of the county engineer.
- 2) Neither supplies nor excavation materials shall be placed on the bituminous or concrete surface at any time.
- 3) No trenches will be allowed to remain open overnight.
- 4) Materials removed from the trench shall be used as backfill insofar as they are suitable. All backfill material shall conform to MNDOT specifications for compaction. The use of heavy equipment on top of trench, slapping with backhoe bucket and/or back casting to achieve compaction is prohibited. Any additional material required to back fill to the original grade shall be furnished by the applicant at no expense to the ACTD. All the base and surface courses damaged during construction operations shall be restored to a condition equal to or better than before operations began. The applicant shall be responsible for and restore any settlement.
- 5) All culverts, ditches, shoulders, and backslopes shall be restored to their original condition unless otherwise directed by the ACTD. Shoulders which have been previously constructed or reconstructed with special materials shall be replaced in kind. Restoration of signs, guardrails, guard posts, etc., are the sole responsibility of the applicant and shall be restored to their original condition.
- 6) All roadway maintenance required within the limits of the utility project that is related to the applicant's activities shall be the sole responsibility of the applicant for one year after completion of the project. Upon completion of the restoration work, the applicant shall request a final inspection by the ACTD. The ACTD's approved completion date shall be the starting date of the applicant's one-year responsibility.

HORIZONTAL BORING AND JACKING

- 1) All hard surface roadways shall be jacked or bored.
- 2) All crossings of Anoka County maintained roadbeds, shall be made by boring inside a casing or carrier pipe, or by jacking unless otherwise directed by the Anoka County Engineer. The auger shall lead the casing or carrier pipe by at least six inches whenever possible and never lead the carrier pipe by more than one inch.
- 3) The use of pneumatic devices to facilitate the roadbed crossings will be allowed in most cases with prior approval. In the event approval is not granted and applicant uses a pneumatic device to cross a roadbed and encounters an obstruction and/or unstable subbase material which makes forward or reverse motion of pneumatic device impossible, said pneumatic device then becomes part of the roadway subbase and permission to excavate to retrieve device will not be granted.
- 4) If a pneumatic device is used for the work permitted herein, the installation must be kept to a minimum of four feet below the surface of the roadway if the pneumatic device is less than two inches in diameter, and a minimum of five feet below the surface of the roadway if the pneumatic device is two inches in diameter or larger.

BITUMINOUS RESTORATION

- 1) The locations and dimensions of all openings to be made in the bituminous surface shall be approved by the ACTD prior to any cutting or any surface opening operations.
- 2) All openings in bituminous surfaces shall be cut in a straight line with the sides smooth and vertical. No ragged edges will be permitted. Cutting shall be done with a concrete saw.
- 3) All necessary dust control operations shall be carried out by the applicant at no expense to Anoka County.
- 4) The minimum requirement for subgrade replacement shall be the upper twelve inches of material and shall meet MNDOT specifications for class five placed in six inch layers compacted to one hundred percent of optimum density.
- 5) All manhole casings, gate valves, and other utility structures shall be set one quarter inch below the top of the finished surface.
- 6) Bituminous tack coat materials and application thereof shall conform to MNDOT specification 2357.
- 7) All bituminous surfacing shall be replaced as practicable after the base construction. All bituminous surfacing shall be machine laid. Any exceptions must be approved by the ACTD. Bituminous surfacing shall be replaced to original pavement depth or to a minimum of six inches of bituminous mixture (2360), whichever is greater. Bituminous mixtures must be placed in lifts not exceeding three inches in thickness for base and binder courses and not exceeding two inches for the wear course.
- 8) All surface restoration regardless of size shall conform to existing grades.
- 9) Any unnecessary or negligent damage to bituminous surface in conjunction with the installation and/or repair of a utility shall be cut out and replaced in kind as directed by the ACTD.

***THIS PERMIT COVERS THE RIGHT OF WAY IN ANOKA COUNTY ONLY
ACTD reserves the right to make changes to these special conditions.***



ANOKA COUNTY TRANSPORTATION DIVISION

1440 BUNKER LAKE BLVD NW

ANDOVER, MN 55304

PERMIT PHONE: 763-324-3176

highwaypermits@anokacountymn.gov

CONCRETE RESTORATION

- 1) Curb and gutter, sidewalks, and driveways shall be restored in accordance with MNDOT specifications 2531 and 2521.

UTILITY LINES

- 1) There shall be only a single pole line on the county right of way on either side of the center line thereof.
- 2) Exact locations of longitudinal installations on county highways shall be located as directed by the ACTD.

SECTION CORNER MONUMENTS

- 1) Utility locations shall not interfere with the location of any section, quarter, witness, or right of way monuments. For assistance in locations, contact the Anoka County Surveyor's Office.
- 2) The applicant shall be responsible for replacement of any existing property irons disturbed during construction.
- 3) The applicant shall notify the Anoka County Surveyor's Office three working days in advance of any anticipated disturbance of any section, quarter, witness, or right of way monuments.
- 4) Any monument disturbed during the course of construction, shall be reset by the Anoka County Surveyor's Office at the expense of the applicant.

ATTACHING TO BRIDGES/STRUCTURES

- 1) No utility is permitted to be hung from, or otherwise attached to, any bridge or structure without having detailed plans approved by the Anoka County Engineer. These plans are to show approaches to the structure, method of installation, type, and dimension of housing for the utility.

ADDITIONAL PROVISIONS

- 1) All subcontractors, installers, and crew shall possess a physical or electronic copy of all documents in relation to the approved permit prior to the commencement of work and be kept on site. This includes, but it not limited to the following:
 - a) Approved permit
 - b) Any/all traffic control plans and/or layouts
- 2) Shall notify Anoka County Permits at 763-324-3176 or highwaypermits@anokacountymn.gov
 - a) At least 36 hours prior to the commencement of work
 - b) With time frame of proposed of work
 - c) Anticipated traffic control
 - d) When work is complete - including restorations - to request a final inspection
- 3) No work during inclement weather or when plows are out in any capacity
- 4) All traffic control shall be in accordance with the most current version of the MnDOT Temporary Traffic Control Field Manual
- 5) For staking of right-of way or proposed infrastructure, contact Chris Osterhus at 763-324-3189 a minimum of 48 hours prior to the commencement of work.

INITIAL initial
MM



No additional comments.

Project No. SAP 002-628-008

Class of Work: Timber Bridge Removal, Box Culverts

STATE OF MINNESOTA

COUNTY OF ANOKA

PROPOSAL FOR HIGHWAY CONSTRUCTION

Proposal of _____
(Name)

(Address)

To furnish and deliver all materials and to do and perform all work, in accordance with the Contract, the Plans, and the approved DEPARTMENT OF HIGHWAYS SPECIFICATIONS, AND ANY AMENDMENTS THERETO, EFFECTIVE ON THE DATE OF THIS PROPOSAL, all on file in the office of the County Engineer except as specifically stated otherwise in the "Special Provisions" contained herein, for the improvement of a certain section of **CSAH 28 (Ambassador Blvd) at Seelye Brook** in Anoka County, State of Minnesota, Job No. **002-628-008**, on which proposals will be received until **10:30** A.M., on the **16th** day of **April**, A.D. **2024**; This work being located at the intersection of **CSAH 28 (Ambassador Blvd) over Seelye Brook in the City of St Francis**.

FOR SPECIAL PROVISIONS, SEE ATTACHED SHEETS

I hereby certify that this Proposal was prepared by me or under my direct supervision, and that I am a duly licensed professional engineer under the laws of the State of Minnesota.



Digitally signed by Nicholas Dobda
Date: 2024.03.27 14:50:47 -05'00'

Nicholas Dobda

License Number: 49046

Date: 3/27/2024

BID RIGGING IS A SERIOUS CRIME. IF YOU HAVE ANY INFORMATION CONCERNING COLLUSIVE BIDDING, EVEN A REQUEST TO SUBMIT A COMPLIMENTARY BID, PLEASE CALL THE MINNESOTA ATTORNEY GENERAL'S OFFICE AT TELE. NO. 651-296-1796.

BIDS INVITED FOR ANOKA COUNTY PROJECT

STATE AID PROJECT NO. 002-628-008

**CSAH 28 (AMBASSADOR BLVD) OVER SEELYE BROOK
CITY OF ST FRANCIS, ANOKA COUNTY**

BIDDING DEADLINE: 10:30 AM, TUESDAY, APRIL 16, 2024

Electronic bid proposals will be received until 10:30 AM, Tuesday, April 16, 2024, by the County Administrator of Anoka County on behalf of the County Board of Commissioners, for the construction of the county project listed below. Bid proposals will be opened and read publicly by the County Administrator or their representative at the **Anoka County Highway Department, 1440 Bunker Lake Blvd, Andover, MN 55304**, immediately after the hour set for receiving the bids. If you need an accommodation such as an interpreter or printed material in an alternate format (i.e., Braille or large print) because of a disability, please contact Cindy Kriesel (763) 324-3100.

The attention of the bidders is directed to know that the 2020 Edition of the Minnesota Department of Transportation "Standard Specifications for Construction" shall govern this project except as stated in the proposal. The attention of bidders is directed to Specification No. 1801 covering sub-letting or assigning portions of the contract. The wage rates for the project have been predetermined and are available in the Office of the County Engineer.

For this project, we will only be accepting online electronic bids through QuestCDN. To access the electronic bid form, download the project documents and click the online bidding button at the top of the advertisement. Complete digital project bidding documents are available at www.questcdn.com. You may download the digital plan documents for **\$22.00** by inputting Quest project # **9037606** on the website's Project Search page. To submit an online bid, an additional **\$42.00** online bidding fee is required. Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership registration, downloading, and working with this digital project information.

Minimum wage rates to be paid by the Contractors have been predetermined and are subject to the Work Hours Act of 1962, P.L. 87-581 and implementing regulations.

**READ THE WAGE SCALES AND DIVISION A OF THE SPECIAL PROVISIONS CAREFULLY,
AS THEY AFFECT THIS/THESE PROJECT/PROJECTS.**

The Minnesota Department of Transportation hereby notifies all bidders:

in accordance with Title VI of the Civil Rights Act of 1964 (Act), as amended, and Title 49, Code of Federal Regulations, Subtitle A Part 21, Non-Discrimination in Federally-Assisted Programs of the Department of Transportation, it will affirmatively assure that, in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded maximum opportunity to participate and/or to submit bids in response to this invitation, and will not be discriminated against on the grounds of race, color, disability, age, religion, sex or national origin in consideration for an award;

in accordance with Title VI of the Civil Rights Act of 1964 as amended, and Title 23, Code of Federal Regulations, Part 230 Subpart A-Equal Employment Opportunity on Federal and Federal-Aid Construction Contracts (including supportive services), it will affirmatively assure increased participation of minority groups and disadvantaged persons and women in all phases of the highway construction industry, and that on any project constructed pursuant to this advertisement equal employment opportunity will be provided to all persons without regard to their race, color, disability, age, religion, sex or national origin;

in accordance with the Minnesota Human Rights Act, Minnesota Statute Section 363A.08, Unfair Discriminatory Practices, it will affirmatively assure that on any project constructed pursuant to this advertisement equal employment opportunity will be offered to all persons without regard to race, color, creed, religion, national origin, sex, marital status, status with regard to public assistance, membership or activity in a local commission, disability, sexual orientation, or age;

in accordance with the Minnesota Human Rights Act, Minnesota Statute Section 363A.36, Certificates of Compliance for Public Contracts, and Section 363A.37, Rules for Certificates of Compliance, it will assure that appropriate parties to any contract entered into pursuant to this advertisement possess valid Certificates of Compliance.

If you have employed more than 40 full-time employees in any state on any single working day during the previous 12 months, you must have a compliance certificate issued by the Minnesota Department of Human Rights to bid on any job in this advertisement. Please contact the Department of Human Rights immediately if you need assistance in obtaining a certificate.

The following notice from the Minnesota Department of Human Rights applies to all contractors:

"It is hereby agreed between the parties that Minnesota Statute Section 363A.36 and Minnesota Rules Parts 5000.3400 to 5000.3600 are incorporated into any contract between these parties based on this specification or any modification of it. A copy of Minnesota Statute Section 363A.36 and Minnesota Rules Parts 5000.3400 to 5000.3600 is available upon request from the contracting agency."

"It is hereby agreed between the parties that this agency will require affirmative action requirements be met by contractors in relation to Minnesota Statute Section 363A.36 and Minnesota Rules Part 5000.3600. Failure by a contractor to implement an affirmative action plan or make a good faith effort shall result in revocation of its certificate or revocation of the contract (Minnesota Statute Section 363A.36, Subd. 2 and 3)."

The major quantities of work are:

ITEM	UNIT	QUANTITY
REMOVE BITUMINOUS PAVEMENT	SQ YD	733
EXCAVATION - COMMON	CU YD	520
COMMON EMBANKMENT (CV)	CU YD	1250
TYPE SP 12.5 WEARING COURSE MIX	TON	2400
12X9 PRECAST CONCRETE BOX CULVERT	LIN FT	174
REMOVE EXISTING BRIDGE	LUMP SUM	1

Bids must be accompanied by a bid bond or certified check made payable to **ANOKA COUNTY** in an amount equal to at least five percent (5%) of the amount of bid. Bid bond is to be submitted using one of the following means:

Obtain electronic bid bond for the Project using Surety2000 and submit it with your electronic bid using questcdn.com; or submit the original paper bid bond or certified check to the **Anoka County Highway Department, 1440 Bunker Lake Blvd, Andover, MN 55304, Attention: Cindy Kriesel, SAP 002-628-008 Bid Bond**. The bid bond or certified check must be received prior to the bid opening time and date.

For this project, the County will **ONLY** be receiving bids electronically. Each bidder shall include, in its electronically submitted bid, a copy of the fully executed bid bond. Failure to timely submit an original bid bond may result in the rejection of the bid.

The County Board reserves the right to reject any or all bids and waive any informalities.

To Anoka County Board of Commissioners:

According to the advertisement of Anoka County inviting proposals for the improvement of the section of highway hereinbefore named, and in conformity with the Contract, Plans, Specifications and Special Provisions pertaining thereto, all on file in the office of the Auditor of Anoka County:

(I)(We) hereby certify that (I am)(we are) the only person(s) interested in this proposal as principal(s); that this proposal is made and submitted without fraud or collusion with any other person, firm or corporation at all; that an examination has been made of the site of the work and the Contract form, with the Plans, Specifications and Special Provisions for the improvement.

(I)(We) understand that the quantities of work shown herein are approximate only and are subject to increase or decrease; that all quantities of work, whether increased or decreased within the limits specified in MnDOT 1903 and 1402, are to be done at the unit prices shown on the attached schedule; that, at the time of opening bids, totals only will be read, but that comparison of bids will be based on the correct summation of item totals obtained from the unit prices bid, as provided in MnDOT 1301.

(I)(We) propose to furnish all necessary machinery, equipment, tools, labor and other means of construction and to furnish all materials specified, in the manner and at the time prescribed, all according to the terms of the Contract and Plans, Specifications, and the Special Provisions forming a part of this.

(I)(We) further propose to do all Extra Work that may be required to complete the contemplated improvement, at unit prices or lump sums to be agreed upon in writing before starting such work, or if such prices or sums cannot be agreed upon, to do such work on a Force Account basis, as provided in MnDOT 1904.

(I)(We) further propose to execute the form of Contract within 7 days after receiving written notice of award, as provided in MnDOT 1306.

(I)(We) further propose to furnish a Payment Bond and a Performance Bond each equal to the Contract Amount as required by MN Statute § 574.26, as security for the construction and completion of the improvement according to the Plans, Specifications and Special Provisions as provided in MnDOT 1305.

(I)(We) further propose to do all work according to the Plans, Specifications and Special Provisions, and to renew or repair any work that may be rejected due to defective materials or workmanship, before completion and acceptance of the Project by Anoka County.

(I)(We) agree to all provisions of Minnesota Statutes, Section 181.59.

(I)(We) further propose to begin work and to prosecute and complete the same according to the time schedule set forth in the Special Provisions for the improvement.

(I)(We) assign to Anoka County all claims for overcharges as to goods and materials purchased in connection with this Project resulting from antitrust violations that arise under the antitrust laws of the United States and the antitrust laws of the State of Minnesota. This clause also applies to subcontractors and first tier suppliers under this Contract.

SPECIAL PROVISIONS

STATE AID PROJECT NO. 002-628-008

CONTENTS AND ATTACHMENTS

PREFIX

Title Sheet
Advertisement for Bids
To Board of Commissioners
Contents and Attachments
Notice to all Bidders (Bid Rigging)
Limitations on Contract Funds
By Signing & Submitting This Proposal (Suspension & Debarment)
Notice – Traffic Control Prevailing Wage Coverage
Notice – Suspension and Debarment
State Funded Contracts – Division A Labor
Notice to Bidders (Prompt Payments)
State Wage Rates
Minnesota Truck Rental Rates

SPECIFICATIONS

Division S Special Provisions
Division SB Special Provisions - Bridge

SPECIFICATIONS ATTACHMENTS

1910 – Fuel Escalation Clause
Asbestos and Regulated Waste Assessment Report (Bridge 02502)
Deconstruction, renovation, or demolition notification form (Asbestos Program)
2023 SALT Schedule of Materials Control

BID PROPOSAL ATTACHMENTS

Schedule of Prices
Anoka County Insurance Requirements (Exhibit R6)
CM 32-34 Attachment
Non-Collusion Affidavit
Responsible Contractor Certification

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

LIMITATION ON USE OF CONTRACT FUNDS FOR LOBBYING

Appendix C to Part ____ - Contract Clause

NEW RESTRICTIONS ON LOBBYING

(a) Definitions. As used in this clause,

"Agency", as defined in 5 U.S.C. 552(f), includes Federal Executive departments and agencies as well as independent regulatory commissions and Government corporations, as defined in 31 U.S.C. 9101(1).

"Covered Federal action" means any of the following Federal actions:

- (1) The awarding of any Federal contract;
- (2) The making of any Federal grant;
- (3) The making of any Federal loan;
- (4) The entering into of any cooperative agreement; and,
- (5) The extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

Covered Federal action does not include receiving from an agency a commitment providing for the United States to insure or guarantee a loan.

"Indian tribe" and "tribal organization" have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450B). Alaskan Natives are included under the definitions of Indian tribes in that Act.

"Influencing or attempting to influence" means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

"Local government" means a unit of government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a governmental duty, including a local public authority, a special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.

"Officer or employee of an agency" includes the following individuals who are employed by an agency:

- (1) An individual who is appointed to a position in the Government under title 5, U.S. Code, including a position under a temporary appointment;
- (2) A member of the uniformed services as defined in section 101(3), title 37, U.S. Code;
- (3) A special Government employee as defined in section 202, title 18, U.S. Code; and,
- (4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, title 5, U.S. Code appendix 2.

"Person" means an individual, corporation, company, association, authority, firm, partnership, society, State, and local government, regardless of whether such entity is operated for profit or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Reasonable compensation" means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.

"Reasonable payment" means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

"Recipient" includes all contractors and subcontractors at any tier in connection with a Federal contract. The term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Regularly employed" means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or employee who is employed by such person for at least 130 working days within one year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within one year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

"State" means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, a territory or possession of the United States, an agency or instrumentality of a State, and a multi-State, regional, or interstate entity having governmental duties and powers.

(b) Prohibition.

(1) Section 1352 of title 31, U.S. Code provides in part that no appropriated funds may be expended by the recipient of a Federal contract, grant, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) The prohibition does not apply as follows:

(i) Agency and legislative liaison by Own Employees.

(A) The prohibition on the use of appropriated funds, in paragraph (1) of this section, does not apply in the case of a payment of reasonable

compensation made to an officer or employee of a person requesting or receiving a Federal activities not directly related to a covered Federal action.

- (B) For purposes of paragraph (A) of this section, providing any information specifically requested by an agency or Congress is allowable at any time.
- (C) For purposes of paragraph (A) of this section, the following agency and legislative liaison activities are allowable at any time only where they are not related to a specific solicitation for any covered Federal action:
 - (i) Discussing with an agency (including individual demonstrations) the qualities and characteristics of the person's products or services, conditions or terms of sale, and service capabilities; and,
 - (ii) Technical discussions and other activities regarding the application or adaptation of the person's products or services for an agency's use.
- (D) For purposes of paragraph (A) of this section, the following agency and legislative liaison activities are allowable only where they are prior to formal solicitation of any covered Federal action:
 - (i) Providing any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action;
 - (ii) Technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and,
 - (iii) Capability presentations by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Public Law 95-507 and other subsequent amendments.
- (E) Only those activities expressly authorized by paragraph (i) of this section are allowable under paragraph (i).

(ii) Professional and Technical Services by Own Employees.

- (A) The prohibition on the use of appropriated funds, in paragraph (1) of this section, does not apply in the case of a payment of reasonable compensation made to an officer or employee of a person requesting or receiving a Federal contract or an extension, continuation, renewal, amendment, or modification of a Federal contract if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal contract or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal contract.
- (B) For purposes of paragraph (A) of this section, "professional and technical services" shall be limited to advice and analysis directly

applying any professional or technical discipline. For example, drafting of a legal document accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable. However, communications with the intent to influence made by a professional (such as a licensed lawyer), or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise and unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered Federal action. Thus, for example, communications with the intent to influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her client's proposal, but generally advocate one proposal over another are not allowable under this section because the lawyer is not providing professional legal services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation or submission of a bid or proposal are not allowable under this section since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered Federal action.

- (C) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation, or reasonably expected to be required by law or regulation, and any other requirements in the actual award documents.
- (D) Only those services expressly authorized by paragraph (ii) of this section are allowable under paragraph (ii).

(iii) Reporting for Own Employees.

No reporting is required with respect to payments of reasonable compensation made to regularly employed officers or employees of a person.

(iv) Professional and technical services by Other than Own Employees.

- (A) The prohibition on the use of appropriated funds, in paragraph (1) of this section, does not apply in the case of any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action, if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal contract or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal contract.

- (B) For purposes of paragraph (A) of this section, "professional and technical services" shall be limited to advice and analysis directly applying any professional or technical discipline. For example, drafting of a legal document accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable. However, communications with the intent to influence made by a professional (such as a licensed lawyer) or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered Federal action. Thus, for example, communications with the intent to influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her client's proposal, but generally advocate one proposal over another are not allowable under this section because the lawyer is not providing professional legal services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation or submission of a bid or proposal are not allowable under this section since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered Federal action.
- (C) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation, or reasonably expected to be required by law or regulation, and any other requirements in the actual award documents.
- (D) Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
- (E) Only those services expressly authorized by paragraph (iv) of this section are allowable under paragraph (iv).

(c) Disclosure.

(1) Each person who requests or receives from an agency a Federal contract shall file with that agency a certification, set forth in _____, that the person has not made, and will not make, any payment prohibited by paragraph (b) of this clause.

(2) Each person who requests or receives from an agency a Federal contract shall file with that agency a disclosure form, Standard Form-LLL, "Disclosure of Lobbying Activities," if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered Federal action), which would be prohibited under paragraph (b) of this clause if paid for with appropriated funds.

(3) Each person shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by such person under paragraph (2) of this section. An event that materially affects the accuracy of this information reported includes:

- (i) A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or
- (ii) A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or,
- (iii) A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.

(4) Any person who requests or receives from a person referred to in paragraph (1) of this section a subcontract exceeding \$100,000 at any tier under a Federal contract shall file a certification, and a disclosure form, if required, to the next tier above.

(5) All disclosure forms, but not certifications, shall be forwarded from tier to tier until received by the person referred to in paragraph (1) of this section. That person shall forward all disclosure forms to the agency.

(d) Agreement. In accepting any contract resulting from this solicitation, the person submitting the offer agrees not to make any payment prohibited by this clause.

(e) Penalties.

(1) Any person who makes an expenditure prohibited under paragraph (b) of this clause shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 of each such expenditure.

(2) Any person who fails to file or amend the disclosure form to be filed or amended if required by this clause, shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 or each such failure.

(3) Contractors may rely without liability on the representations made by their subcontractors in the certification and disclosure form.

(f) Cost allowability. Nothing in this clause is to be interpreted to make allowable or reasonable any costs which would be unallowable or unreasonable in accordance with Part 31 or the Federal Acquisition Regulation. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any of the provisions of Part 31 of the Federal Acquisition Regulation.

(End of Clause)

BILLING CODE 3110-01-M

NOTICE

Suspension and Debarment

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the contractor is required to verify that none of the contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR 29, Subpart C in any lower tier covered transaction it enters into.

By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by the **Anoka County Highway Department**. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to the **Anoka County Highway Department** the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

NOTICE TO BIDDERS
TRAFFIC CONTROL
PREVAILING WAGE COVERAGE

The following defines the United States Department of Labor's interpretation of contract labor provision coverage for employees who work for traffic control companies and /or perform traffic control duties.

Non-covered Supplier Designated Duties:

Employees of bona fide "Material Persons/Suppliers" are not covered. A Material Person/Supplier is limited to supply, delivery, and routine maintenance (once a week) of barricades, cones, flashers, etc. to the job site.

The following functions, except as qualified in "6." below, do not come under the prevailing wage requirements of the contracts:

1. Supply and delivery of traffic control devices such as barricades, cones, barrels, flashers and signboards.
2. Routine and periodic maintenance service (usually once a week).
3. Removal of equipment from job site.
4. In connection with delivery, they may drop the equipment at a central stockpile location or at various locations along the project. Employees of company may set-up the equipment as long as such set-up is by dropping barrels and cones from the back of a moving truck.
5. Maintenance would consist of inspecting and cleaning the equipment, replacing broken or lost equipment, replacing barricades knocked down or out of line, and changing light bulbs and barricades.
6. If an employee spends more than 20% of their workweek performing the above duties on a Davis-Bacon (Federal-Aid) project or other Davis-Bacon (Federal-Aid) projects, prevailing wage rates would apply for the time so spent.

Covered Contractor or Subcontractor Duties:

The following functions are covered under the contract labor provisions. Any contractor performing these duties will need to be listed on a Request to Sublet form and their employees performing the duties will need to be listed on a Certified Payroll form and submitted following the appropriate procedures.

Related and continuing traffic control services such as, but not limited to:

1. Moving barricades and barriers as construction work progresses.
2. Moving barricades for lane closures and changes.
3. Painting traffic lines.
4. Sandblasting to remove traffic lines.
5. Applying and removing traffic tape.
6. Setting up barrels or barricades other than those dropped from the back of a moving truck.
7. Digging postholes to erect temporary warning signs (only).
8. Erection of advance temporary warning signs.
9. Placing temporary signboards.

On Federal-aid Projects (only) when there is no appropriate classification listed under either the state or federal wage determinations, a classification wage rate will be negotiated using the procedures under FHWA 1273, REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS, Part IV. PAYMENT OF PREDETERMINED MINIMUM WAGE, Subp. 2. Classifications.

**MINNESOTA DEPARTMENT OF TRANSPORTATION
NOTICE TO BIDDERS:
SUSPENSIONS/DEBARMENTS
THIS NOTICE APPLIES TO STATE-FUNDED AND FEDERALY-FUNDED PROJECTS**

Do not use suspended or debarred parties as subcontractors or material suppliers on this project!

Both the federal government and the State of Minnesota suspend and debar vendors. Review the list of suspended and debarred vendors before submitting a bid or a request to sublet. If your bid is based on using a suspended or debarred vendor, you will not be entitled to additional compensation for replacing the suspended or debarred vendor with a qualified vendor.

State Suspensions and Debarments

The State of Minnesota's list of suspended and debarred vendors is maintained by the Minnesota Department of Administration, Office of State Procurement, and can be found at this link: <http://www.mmd.admin.state.mn.us/debarredreport.asp> . This list includes vendors suspended and debarred by the Department of Administration and MnDOT.

Federal Suspensions and Debarments

The federal government maintains a searchable database of suspensions and debarments, called the System for Award Management (SAM), which is found at this link: <https://www.sam.gov/SAM/> . You can use the "Search Records" function without registering for an account.

November 9, 2020 (MnDOT orig.)

July, 2023 (replace State Aid doc)

STATE FUNDED ONLY CONSTRUCTION CONTRACTS SPECIAL PROVISIONS DIVISION A - LABOR

I. INTRODUCTION

- A. **Policy Statement.** It is in the public interest that public buildings and other public works projects be constructed and maintained by the best means and the highest quality of labor reasonably available and that persons working on public works projects be compensated according to the real value of the services they perform.¹
- B. **State Regulations Govern.** This Contract is subject to the Minnesota Prevailing Wage Act², Minnesota Fair Labor Standards Act³, Minnesota Rules⁴, Minnesota Department of Labor and Industry (MnDLI) Wage Decision(s), and the MnDLI Truck Rental Rate Schedule.
- C. **Purpose.** These provisions: (1) outline your obligations under state and federal laws, rules and regulations; (2) explain the requirements necessary to demonstrate compliance; and (3) explain the processes that the Department will undertake to ensure compliance.
- D. **Questions or Resources.** Please visit the Minnesota Department of Transportation (MnDOT) Labor Compliance Unit (LCU) website at: www.dot.state.mn.us/const/labor.

II. DEFINITIONS

Many of the terms used in these provisions are defined in MnDOT's Standard Specifications for Construction,⁵ unless defined below.

- A. **Apprentice.** A Worker at least 16 years of age who is employed to learn an apprenticeable trade or occupation in a registered apprenticeship program.⁶
- B. **Bona Fide.** Made or carried out in good faith; authentic.⁷
- C. **Certified Payroll Report (CPR).** A report comprised of two components; (1) a payroll report, and (2) a statement of compliance report.⁸
- D. **Contractor.** An individual or business entity that is engaged in construction or construction service-related activities including trucking activities either directly or indirectly through a Contract, or by Subcontract with the Prime Contractor, or by a further Subcontract with any other person or business entity performing Work.⁹
- E. **Employer.** An individual, partnership, association, corporation, business trust, or other business entity that hires a Worker.¹⁰
- F. **Fringe Benefit.** An employment benefit given in addition to a Worker's wages or salary.¹¹
- G. **Independent Truck Owner/Operator (ITO).** An individual, partnership, or principal stockholder of a corporation who owns or holds a vehicle under lease and who contracts that vehicle and the owner's services to an entity which provides construction services to a public works project.¹²

¹ Minn. Stat. 177.41

² Minn. Stat. 177.41 to 177.44

³ Minn. Stat. 177.21 to 177.35

⁴ Minn. R. 5200.1000 to 5200.1120

⁵ MnDOT Standard Specifications for Construction, Section 1103

⁶ Minn. Stat. 178.011, Subdivision 2

⁷ The American Heritage College Dictionary, Third Edition, 2000

⁸ Minn. R. 5200.1106, Subpart 10

⁹ Minn. R. 5200.1106, Subpart 2(D)

¹⁰ Minn. Stat. 177.42, Subdivision 7

¹¹ The American Heritage College Dictionary, Third Edition, 2000

¹² Minn. R. 5200.1106, Subpart 7(A)

- H. **Journeyworker.** A person who has attained a level of skill, abilities, and competencies recognized within and industry as having mastered the skills and competencies required for the trade or occupation.¹³
- I. **Prime Contractor.** An individual or business entity that enters into a Contract with the Department.¹⁴
- J. **Subcontract.** A Contract that assigns some obligations of a prior Contract to another party.¹⁵
- K. **Substantially In Place.** Mineral aggregate is deposited on the project site directly or through spreaders where it can be spread from or compacted at the location where it was deposited.¹⁶
- L. **Total Prevailing Wage Rate.** The sum of the prevailing hourly “basic” and “fringe” rate that is established in a Wage Decision.
- M. **Trucking Broker (Broker).** An individual or business entity, the activities of which include, but are not limited to: contracting to provide trucking services in the construction industry to users of such services, contracting to obtain such services from providers of trucking services, dispatching the providers of the services to do Work as required by the users of the services, receiving payment from the users in consideration of the trucking services provided, and making payment to the providers for the services.¹⁷
- N. **Trucking Firm/Multiple Truck Owner (MTO).** Any legal business entity that owns more than one vehicle and hires the vehicles out for services to Trucking Brokers or Contractors on public works projects.¹⁸
- O. **Truck Rental Rate Schedule.** A document prepared by the MnDLI through a Contractor survey process that identifies the required hourly Total Prevailing Wage Rate and operating cost for various types of trucks that perform hauling activities (Work) under a Contract that is funded in whole or in part with state funds.¹⁹
- P. **Wage Decision.** A document prepared by the MnDLI through a Contractor survey process that identifies the required hourly basic rate of pay and hourly Fringe Benefits for various labor classifications that perform Work under a Contract that is funded in whole or in part with state funds.²⁰
- Q. **Work (Work).** All construction activities associated with a public works project, including any required hauling activities on-the-site-of or to-or-from a public works project and conducted pursuant to a Contract, regardless of whether the construction activity or Work is performed by the Prime Contractor, subcontractor, Trucking Broker, Trucking Firm (MTO), ITO, independent contractor, or employee or agent of any of the foregoing entities.²¹
- R. **Worker (Laborer or Mechanic).** A Worker in a construction industry labor class identified in or pursuant to Minnesota Rules 5200.1100, Master Job Classifications.²²

III. APPLICATION & UNDERSTANDING

- A. **Provisions & Prevailing Wage Rates Apply.** These provisions, along with the prevailing Wage Decision(s) that are incorporated into the Contract, apply to all Contractors contracting to do all or part of the Work.²³

¹³ Minn. Stat. 178.011, Subdivision 9

¹⁴ Minn. R. 5200.1106, Subpart 2(C)

¹⁵ The American Heritage College Dictionary, Third Edition, 2000

¹⁶ Minn. R. 5200.1106, Subpart 5(C)

¹⁷ Minn. R. 5200.1106, Subpart 7(C)

¹⁸ Minn. R. 5200.1106, Subpart 7(B)

¹⁹ Minn. R. 5200.1105

²⁰ Minn. R. 5200.1020 to 5200.1060

²¹ Minn. R. 5200.1106, Subpart 2(A)

²² Minn. R. 5200.1106, Subpart 5(A)

²³ Minn. Stat. 177.44, Subdivision 1

- B. **Truck Rental Rates Apply.** The Truck Rental Rate Schedule incorporated into the Contract applies to all hired trucking entities that perform covered hauling activities related to the project.²⁴
- C. **Prevailing Wage Terms Must Be Included in All Contracts.** The Prime Contractor is required to ensure that all subcontractors performing Work receive the Contract Wage Decision(s), Truck Rental Rate Schedule, and a copy of these provisions with their written Subcontracts, agreements and/or purchase orders.²⁵
- D. **Responsible for Understanding All Requirements.** Each Contractor is responsible for understanding all laws, rules, regulations, plans, and specifications that are incorporated physically, or by reference, into the Contract.²⁶
- E. **E-Verify.** For services valued in excess of \$50,000, the Contractor certifies that as of the date of services performed on behalf of State, the Contractor will have implemented or be in the process of implementing the federal E-Verify program for all newly hired employees in the United States who will perform work under the contract. The Prime Contractor is responsible to collect all subcontractor certifications and may do so utilizing the E-Verify Subcontractor Certification Form available at <http://www.mmd.admin.state.mn.us/doc/EverifySubCertForm.doc>. All subcontractor certifications must be kept on file with the Prime Contractor and made available to the State upon request.

IV. **VENDOR REGISTRATION**

Vendor Registration Required. A Contractor that performs Work, supplies material, or product must be registered with MnDOT. The Contractor must complete and submit a vendor form²⁷ to the MnDOT LCU²⁸, along with all applicable documentation that is required. This registration process is separate and distinct from other state agency requirements.

V. **LABOR CLASSIFICATIONS**

- A. **Labor Classification Assignment.** A Worker must be paid at least the Total Prevailing Wage Rate in the same or most similar trade or occupation.²⁹ To determine the appropriate labor classification for a Worker, a Contractor must refer to the Wage Decision(s) incorporated into the Contract, the labor classification descriptions for laborers and special crafts established in Minnesota Rules or the United States Department of Labor's Dictionary of Occupational Titles.³⁰
- B. **Labor Classification Clarification & Disputes.** A Contractor needing assistance in determining a labor classification must submit a Classification Clarification Request³¹ to the MnDOT LCU for a written decision. If the Contractor chooses to contest the classification assignment, it must provide written notice to the MnDOT LCU. The MnDOT LCU will forward the matter to the MnDLI for a final ruling.
- C. **Performing Work in Multiple Labor Classifications.** For Workers performing Work in multiple labor classifications, the Contractor must compensate at a minimum the Total Prevailing Wage Rate, and report the hours worked, in each applicable labor classification.³²

VI. **WAGE DECISION(S) & WAGE RATE(S)**

- A. **Applicability of a Highway and Heavy Wage Decision.** A highway and heavy Wage Decision applies to a Worker that is engaged in a construction activity or performing Work to construct or maintain a highway or other public works project, such as a road, street, airport runway, bridge,

²⁴ Minn. Stat. 177.44, Subdivision 3

²⁵ MnDOT Standard Specifications for Construction, Section 1801

²⁶ MnDOT Standard Specifications for Construction, Section 1701

²⁷ www.dot.state.mn.us/const/labor/documents/forms/contractorform2016.pdf for www.dot.state.mn.us/const/labor/documents/forms/truckvendorform2016.pdf

²⁸ lcusupport.dot@state.mn.us

²⁹ Minn. Stat. 177.44, Subdivision 1

³⁰ Minn. R. 5200.1101 and 1102 and USDOL Dictionary of Occupational Titles

³¹ <http://www.dot.state.mn.us/const/labor/documents/forms/classification-clarification-request.pdf>

³² Minn. Stat. 177.44, Subdivision 1

power plant, dam or utility³³ that is external to a sheltered enclosure (structure). This includes, but is not limited to, the following Work: site clearing; grading; excavating backfilling; paving; curbs; gutters; sidewalks; culverts; bridges; lighting systems; traffic management systems; installing of utilities out from an exterior meter; fuel islands; communication towers; or other activities similar to highway and/or heavy Work.

- B. **Applicability of a Commercial Wage Decision.** A commercial Wage Decision applies to a Worker that is engaged in a construction activity or performing Work to construct a sheltered enclosure (structure) with walk-in access for the purpose of housing persons, machinery, equipment or supplies.³⁴ This includes, but is not limited to, the following Work: constructing foundations, aprons, stoops; framing walls; installing windows, doors, tiling, plumbing, electrical, HVAC systems; roofing; installing utilities into the building from an exterior meter.
- C. **Pay According to Wage Decision(s).**
1. **Contract with One Wage Decision.** If the Contract contains one Wage Decision, the Contractor must examine the Wage Decision and compensate the Worker at a minimum the Total Prevailing Wage Rate for the appropriate labor classification(s).
 2. **Contract with Multiple Highway/Heavy Wage Decisions.** If the Contract contains multiple Highway/Heavy Wage Decisions, the Contractor must examine each Wage Decision and compensate the Worker, at a minimum, the Total Prevailing Wage Rate that is the greatest³⁵ for the appropriate labor classification(s).
 3. **Contract with Highway/Heavy and Commercial Wage Decision(s).** If the Contract contains a Highway/Heavy and Commercial Wage Decision(s), the Contractor must first determine which Wage Decision is applicable to the Worker. The Contractor must then compensate the Worker, at a minimum, the Total Prevailing Wage Rate for the appropriate labor classification(s).
- D. **Must Pay Total Prevailing Wage Rate.** A Contractor must compensate each Worker, at a minimum, the Total Prevailing Wage Rate(s) for all hours worked on the project for the appropriate labor classification(s).³⁶
- E. **Missing Wage Rate.** If a Wage Decision fails to include a wage rate for a labor classification(s) that will be utilized on a project, the Contractor must obtain a wage rate prior to furnishing an estimate, quote or bid.³⁷
1. **Wage Rate Request.** A Contractor must complete a Request for Rate Assignment form³⁸ and submit it to the MnDOT LCU³⁹ for processing.
 2. **No Contract Price Adjustment for Missing Wage Rate.** If MnDLI determines that a higher wage rate applies, the Department will not reimburse the Contractor.
- F. **Salaried Worker.** A salaried Worker is not exempt from these Provisions. A Contractor must convert the Worker's salary to an average hourly rate of pay by dividing the Worker's salary by the total number of hours Worked (government and non-government) during the pay period.⁴⁰ A salaried Worker must be included on a CPR.
- G. **Reduction in Standard (Private) Contractual Regular Rate of Pay Prohibited.** A Contractor must not reduce a Worker's standard, contractual regular rate of pay when the prevailing wage rate(s) certified by the MnDLI is less.⁴¹

³³ Minn. R. 5200.1010, Subdivision 3

³⁴ United States Department of Labor All Agency Memorandum #130

³⁵ Minn. Stat. 177.44, Subdivision 4

³⁶ Minn. Stat. 177.44, Subdivision 1

³⁷ Minn. R. 5200.1030, Subpart 2a(C)

³⁸ <http://www.dot.state.mn.us/const/labor/documents/forms/request-for-rate-assignment.doc>

³⁹ lcusupport.dot@state.mn.us

⁴⁰ Refer to Appendix A

⁴¹ Minn. Stat. 181.03, Subdivision 1(2)

- H. **Prohibited Payment Practices.** A Contractor is prohibited from taking (accepting) a rebate for the purpose of reducing or otherwise decreasing the value of the compensation paid.
- I. **Prohibited Deductions.** No deductions, direct or indirect, may be made for the items listed below which when subtracted from wages would reduce the wages below Minnesota's minimum wage rate as established in section 177.24⁴²
1. **Uniforms.** Purchased or rented uniforms or specifically designed clothing that is required by the Employer, by the nature of employment, or by statute, or as a condition of employment, which is not generally appropriate for use except in that employment.
 2. **Equipment.** Purchased or rented equipment used in employment, except tools of a trade, a motor vehicle, or any other equipment which may be used outside the employment. The cost of the Worker's use of equipment used outside of employment, such as tools, a motor vehicle, cell phone, may be deducted only if an agreement between the Employer and employee existed prior to the deduction.
 3. **Supplies.** Consumable supplies required in the course of employment.
 4. **Travel Expenses.** Travel expenses in the course of employment except those incurred in traveling to and from the employee's residence and place of employment.

VII. HOURS OF WORK

- A. **Work Performed Under the Contract.** A Worker performing Work is subject to prevailing wage for all hours associated with the Contract⁴³, unless the Worker is exempt under state law.⁴⁴
- B. **Wait Time Subject to Prevailing Wage.** A Worker who is required to remain on the project and is waiting to Work because of the fault of the Contractor is considered "engaged to wait" and subject to prevailing wage for the time spent, unless the Worker is completely relieved of duty and free to leave the project for a defined period of time.

VIII. FRINGE BENEFITS

- A. **Funded Fringe Benefit Plan Criteria.** In order for a funded Fringe Benefit (e.g., health/medical insurance, disability insurance, life insurance, pension, etc.) to be considered and creditable towards the Total Prevailing Wage Rate it must be:⁴⁵
1. a contribution irrevocably made by a Contractor on behalf of an Worker to a financially responsible trustee, third person, fund, plan, or program;
 2. carried out under a financially responsible plan or program;
 3. legally enforceable;
 4. communicated in writing to the Worker; and
 5. made available to the Worker once he/she has met all eligibility requirements.
- B. **Unfunded Fringe Benefit Plan Criteria.** In order for a unfunded Fringe Benefit (e.g., vacation, holiday, sick leave, etc.) to be considered and creditable towards the Total Prevailing Wage Rate it must be:⁴⁶
1. reasonably anticipated to provide a benefit;
 2. a commitment that can be legally enforced;

⁴² Minn. Stat. 177.24, Subdivision 4(1-4)

⁴³ Minn. Stat. 177.44, Subdivision 1

⁴⁴ Minn. Stat. 177.44, Subdivision 2 or Minn. R. 5200.1106, Subpart 4

⁴⁵ Minn. Stat. 177.42, Subdivision 6

⁴⁶ Minn. Stat. 177.42, Subdivision 6

3. carried out under a financially responsible plan or program;
 4. communicated in writing to the Worker; and
 5. made available to the Worker once he/she has met all eligibility requirements.
- C. **Fringe Benefit Contributions for Hours Worked.** A Contractor that provides Fringe Benefits to a Worker must make contributions, not less than quarterly⁴⁷, for all hours worked,⁴⁸ including overtime hours, unless it's a defined benefit or contribution plan that provides for immediate participation and immediate or essentially immediate vesting (**see subpart D2 of this section**).
- D. **Hourly Fringe Benefit Credit.** An hourly Fringe Benefit credit toward the Total Prevailing Wage Rate must be determined separately for each Worker based on one or more of the following methods:
1. **Monthly, Quarterly or Annual Computation Methods.** A Contractor must compute its monthly, quarterly or annual cost of a particular Fringe Benefit and divide that amount by the estimated total number of hours worked (government and non-government) during the time frame used.⁴⁹ Typical plans that require monthly, quarterly or annual computations include but are not limited to: health/medical insurance, disability insurance, life insurance, vacation, holiday, sick leave and defined benefit or contribution pension plans that do not provide for immediate participation and immediate or essentially immediate vesting.
 2. **Fringe Benefit Credit not Requiring Monthly, Quarterly or Annual Computation Methods.** A defined benefit or contribution pension plan that allows for a higher hourly rate of contribution for government work (prevailing wage) than non-government (non-prevailing wage) will be fully credited only if the plan provides for immediate participation and immediate or essentially immediate vesting.
- E. **Wages In Lieu of Fringe Benefits.** A Contractor that does not provide full Fringe Benefits must compensate a Worker the difference between the Total Prevailing Wage Rate and the rate actually paid for the appropriate labor classification(s). The compensation paid is considered wages and subject to tax liabilities.
1. **Overtime.** The cash equivalent (wages paid) made in lieu of Fringe Benefits is excluded from the overtime calculation requirement, unless the cash equivalent (wages paid) is part of the Worker's standard straight time wage.
- F. **Administrative Costs Not Creditable.** Administrative expenses incurred by a Contractor in connection with the administration of a Bona Fide Fringe Benefit plan are not creditable towards the Total Prevailing Wage Rate.
- G. **Federal, State & Local Fringe Benefit Credit Prohibited.** No credit is allowed for benefits required by federal, state or local law, such as: worker's compensation, unemployment compensation, and social security contributions.⁵⁰

IX. OVERTIME

- A. **Overtime after 8 Hours per Day or 40 Hours per Week.** A Contractor must not permit or require a Worker to work longer than the prevailing hours of labor unless the Worker is paid for all hours in excess of the prevailing hours at a rate of at least 1.5 times the hourly basic rate of pay.⁵¹ The prevailing hours of labor is defined as not more than 8 hours per day and more than 40 hours per week.⁵²

⁴⁷ 29 CRF, Part 5.5(a)(1)(i)

⁴⁸ Government and non-government Work

⁴⁹ Refer to Appendix B

⁵⁰ Minn. Stat. 177.42, Subdivision 6

⁵¹ Minn. Stat. 177.44, Subdivision 1 and Refer to Appendix D

⁵² Minn. Stat. 177.42, Subdivision 4

- B. **Wages in Lieu of Fringe Benefits Overtime.** Wages paid in Lieu of Fringe Benefits must be paid for all hours worked under the contract.
- C. **Multiple Labor Classifications and Overtime.** A Worker employed in multiple labor classifications throughout a workweek must be compensated at the applicable labor classification overtime rate in effect during the hours worked in excess of 8 hours per day or 40 hours per week.
- D. **Federal Fair Labor Standards Act (FLSA) and Overtime.** A Contractor subject to the FLSA may be subject to additional overtime compensation requirements.

X. PAYROLLS AND STATEMENTS

- A. **Reporting.** Each Contractor that is performing Work must submit a CPR(s) to the Department.
 - 1. **Payroll Report (Paper).** Each Contractor performing Work must submit a paper (written) payroll report to the Department. The payroll report is available on the MnDOT LCU website.⁵³
 - 2. **Statement of Compliance (Paper).** Each Contractor's paper (written) payroll report must include a paper (written) "Statement of Compliance Form". The "Statement of Compliance Form" must: (1) state whether or not Fringe Benefits are provided to a Worker; (2) provide a description of each benefit, the hourly contribution made on behalf of each Worker, along with fund/plan information; and (3) a signature attesting that the payroll and Fringe Benefit information provided is truthful and accurate.⁵⁴
 - 3. **Electronic Reporting.** If the Contract is subject to electronic reporting, each Contractor performing Work must submit a CPR(s) using the AASHTOWare, Civil Rights Labor (CRL) system. Refer to the **Special Provisions Division S – "Electronic Submission of Payrolls and Statements"** which is incorporated into and found elsewhere in the Contract for detailed requirements.
- B. **Biweekly Payroll Reporting and Payment of Wages.** A CPR(s) must be submitted no later than 14 calendar days after the end of each Contractor's pay period⁵⁵ to the Department. A Contractor must pay its employees at least once every 14 calendar days.⁵⁶
- C. **Payroll Report Data.** Each payroll report must include all Workers that performed Work and provide at a minimum the following information:⁵⁷
 - 1. Contractor's name, address, and telephone number.
 - 2. State project number.
 - 3. Contract number (if applicable).
 - 4. Project number.
 - 5. Payroll report number.
 - 6. Project location.
 - 7. Workweek end date.
 - 8. Each Worker's name, home address, and social security number.⁵⁸
 - 9. Labor classification(s) title(s) and optional three-digit code for each Worker.

⁵³ www.dot.state.mn.us/const/labor/certifiedpayroll.html

⁵⁴ Minn. R. 5200.1106, Subpart 10

⁵⁵ Minn. Stat. 177.43, Subdivision 3

⁵⁶ Minn. Stat. 177.30 (a)(4)

⁵⁷ Minn. Stat. 177.30 (a)(1-4) and Minn. R. 5200.1106, Subpart 10

⁵⁸ Minn. R. 5200.1106, Subpart 10A & Minn. Stat. 13.355, Subdivision 1

10. Hours worked daily and weekly in each labor classification, including overtime hours, for each Worker.
11. Wage rate paid to each Worker for straight time and overtime.
12. Authorized legal deductions for each Worker.
13. Project gross amount, weekly gross amount, and net wages paid to each Worker.

- D. **Prime Contractor to Ensure Compliance.** The Prime Contractor must review the CPR(s) submitted by each lower tier Contractor and sign the "Statement of Compliance Form".⁵⁹ The Prime Contractor must ensure that each lower tier Contractor's CPR(s) include all Workers that performed Work and accurately reflect labor classifications, hours worked, regular and overtime rates of pay, gross earnings for the project and Fringe Benefits.⁶⁰
- E. **Retention of CPR(s).** The Prime Contractor must keep its written CPR(s), including those of all lower tier Contractors, for three (3) years after the final payment is issued.⁶¹
- F. **Retention of Employment-Related Records.** Each Contractor must keep employee records, including, but not limited to: Fringe Benefit statements, time cards, payroll ledgers, check registers and canceled checks⁶² for at least three (3) years after the final payment is issued.⁶³ Other laws may have longer retention requirements.
- G. **Detailed Earning Statement.** At the end of each pay period, each Contractor must provide every Worker, in writing or by electronic means, an accurate, detailed earnings statement.⁶⁴
- H. **Reports and Records Request.** Upon a request from the Department, the Prime Contractor must promptly furnish copies of CPR(s) for its Workers and those of all lower tier Contractors, along with employment-related records, documents, and agreements that the Department considers necessary to determine compliance.⁶⁵

XI. APPRENTICES, TRAINEES AND HELPERS

- A. **Apprentice.** An Apprentice will be permitted to Work at less than the prevailing basic hourly rate only if the Apprentice is:
1. Registered with the U.S. Department of Labor (DOL), Bureau of Apprenticeship and Training or MnDLI Division of Voluntary Apprenticeship.⁶⁶
 2. Performing Work of the trade, as described in the apprenticeship agreement.
 3. Compensated according to the rate specified in the program for the level of progress.⁶⁷
 4. Supervised by a Journeyworker from the same company, in accordance with the program ratio requirements.⁶⁸
- B. **Ratio Requirement.** If an approved apprenticeship program fails to define a ratio allowance, the first Apprentice must be supervised by a Journeyworker within the same trade or occupation. Any subsequent Apprentice must be supervised by an additional three Journeyworkers.⁶⁹

⁵⁹ MnDOT Standard Specifications for Construction, Section 1701

⁶⁰ MnDOT Standard Specifications for Construction, Section 1801

⁶¹ Minn. Stat. 177.30 (a)(5)

⁶² Minn. R. 5200.1106, Subpart 10

⁶³ Minn. Stat. 177.30 (a)(5)

⁶⁴ Minn. Stat. 181.032

⁶⁵ Minn. Stat. 177.44, Subdivision 7; Minn. Stat. 177.33(a)(5)

⁶⁶ Minn. R. 5200.1070, Subpart 1

⁶⁷ Minn. R. 5200.1070, Subpart 1 and Refer to Appendix C

⁶⁸ Minn. Stat. 178.036, Subdivision 5

⁶⁹ Minn. Stat. 178.036, Subdivision 5

- C. **Failure to Comply with Apprenticeship Requirements.** If a Contractor fails to demonstrate compliance with the terms established in this section, the Contractor must compensate the Apprentice not less than the applicable Total Prevailing Wage Rate for the actual classification of labor performed.⁷⁰
- D. **Trainee and Helper.** A trainee or helper is not exempt from prevailing wage under state law. The Contractor must assign the trainee or helper a labor classification that is the "same or most similar"⁷¹ and compensate the trainee or helper for the actual Work performed regardless of the trainee's or helper's skill level.

XII. INDEPENDENT CONTRACTORS, OWNERS, SUPERVISORS, AND FOREMAN

- A. **Independent Contractor.** An independent contractor (IC) that is not an Independent Truck Owner/Operator (ITO), who is performing Work must be properly classified and compensated.⁷² The IC must submit a CPR(s) to the Department. If the IC does not receive an hourly wage, but instead a weekly, biweekly, monthly or quarterly distribution for performance, the IC must calculate its hourly rate of pay by dividing the weekly, biweekly, monthly, or quarterly company distribution by all hours worked during that time frame and report the information on a CPR. If necessary, the Department may request documentation from the IC to determine how the hourly wage rate was calculated.⁷³
- B. **Owners, Supervisors and Foreman.** An owner, supervisor, or foreman performing Work is subject to prevailing wage and must be properly classified, compensated and reported.⁷⁴

XIII. TRUCKING

- A. **Covered Hauling Activities.** A Contractor must ensure that all Workers, including hired Trucking Brokers, MTOs and ITOs are paid the applicable Total Prevailing Wage Rate or truck rental rate for the following Work:
1. The hauling of any or all stockpiled or excavated materials on the project work site to other locations on the same project even if the truck leaves the work site at some point.⁷⁵
 2. The delivery of materials from a non-commercial establishment to the project and the return haul to the starting location either empty or loaded.⁷⁶
 3. The delivery of materials from another construction project site to the public works project and the return haul, either empty or loaded. Construction projects are not considered commercial establishments.⁷⁷
 4. The hauling required to remove any materials from the project to a location off the project site and the return haul, either empty or loaded from other than a commercial establishment.⁷⁸
 5. The delivery of materials or products by trucks hired by a Contractor, subcontractor, or agent thereof, from a commercial establishment.⁷⁹
 6. The delivery of sand, gravel, or rock, by or for a commercial establishment, which is deposited "substantially in place," either directly or through spreaders from the transporting vehicles is work under the contract. In addition, the return haul to the off-site facility empty or loaded is also considered work under the contract.⁸⁰

⁷⁰ Minn. R. 5200.1070, Subpart 3

⁷¹ Minn. Stat. 177.44, Subdivision 1

⁷² Minn. Stat. 177.44, Subdivision 1

⁷³ Minn. Stat. 177.30(a)(5); Minn. Stat. 181.723

⁷⁴ Minn. Stat. 177.44, Subdivision 1

⁷⁵ Minn. R. 5200.1106, Subpart 3B(1)

⁷⁶ Minn. R. 5200.1106, Subpart 3B(2)

⁷⁷ Minn. R. 5200.1106, Subpart 3B(3)

⁷⁸ Minn. R. 5200.1106, Subpart 3B(4)

⁷⁹ Minn. R. 5200.1106, Subpart 3B(5)

⁸⁰ Minn. R. 5200.1106, Subpart 3B(6)

- B. **Hauling Activities Not Subject to Prevailing Wage or Truck Rental Rates.** A Contractor may exclude a Worker, including hired Trucking Brokers, MTOs and ITOs from prevailing wage or truck rental rates for the Work described in (1-2) of this section. However, this Work may be considered hours worked and subject to standard compensation pursuant to the Minnesota Fair Labor Standards Act.
1. The delivery of processed or manufactured goods to a public works project by the employees of a commercial establishment including truck owner-operators hired by and paid by the commercial establishment, unless it is the delivery of mineral aggregate that is incorporated into the work under the contract by depositing the material substantially in place.⁸¹
 2. The delivery of oil offsite, as an example, to a Prime Contractor's permanent (commercial) asphalt mixing facility that is not to, from, or on the project Work site.⁸²
- C. **Repair, Maintenance & Waiting to Load Time.** An ITO and MTO must be paid the truck rental rate for time spent repairing or maintaining the truck owner-operator's equipment, and for waiting to load or unload if the repair, maintenance, or wait time is the fault of the Trucking Broker, Contractor, its agent or employees.⁸³
- D. **Month End Trucking Report.** A Contractor that acquires the services of an ITO or MTO must submit a "MnDOT – MTO and/or ITO Month-End Trucking Report", and a "MnDOT – Month-End Trucking Statement of Compliance Form" to the Department for each month hauling activities are performed under the Contract.⁸⁴ The forms are available on the MnDOT LCU website.⁸⁵
- E. **Broker Fee.** A truck broker contracting to provide trucking services directly to a prime contractor or subcontractor is allowed to assess a broker fee.

XIV. OFF-SITE FACILITIES

- A. **Off-Site Facility Activities Subject to Prevailing Wage.** A Contractor must ensure that all Workers performing Work at a covered off-site facility are paid the applicable Total Prevailing Wage Rate for the following Work:
1. The processing or manufacturing of material at a Prime Contractor's off-site facility that is not a separately held commercial establishment.⁸⁶
 2. The processing or manufacturing of material at an off-site facility that is not considered a commercial establishment.⁸⁷
- B. **Off-Site Facility Activities Not Subject to Prevailing Wage.** A Contractor may exclude a Worker from prevailing wage for the following work:
1. The processing or manufacturing of material or products by or for a commercial establishment.⁸⁸
 2. The work performed by Workers employed by the owner or lessee of a gravel or borrow pit that is a commercial establishment, even if the screening, washing or crushing machines are portable.⁸⁹

XV. SUBCONTRACTING PART OF THE CONTRACT

⁸¹ Minn. R. 5200.1106, Subpart 4(C)

⁸² J.D. Donovan, Inc. vs. Minnesota Department of Transportation, 878 N.W.2d 1 (2016)

⁸³ Minn. R. 5200.1106, Subpart 8(A)(1)

⁸⁴ Minn. R. 5200.1106, Subpart 10

⁸⁵ <http://www.dot.state.mn.us/const/labor/forms.html>

⁸⁶ ALJ Findings of Fact, Conclusions of Law, and Recommendation, Conclusions (7), Case #12-3000-11993-2

⁸⁷ Minn. R. 5200.1106, Subpart 3(A)

⁸⁸ Minn. R. 5200.1106, Subpart 4(A)

⁸⁹ Minn. R. 5200.1106, Subpart 4(B)

The Prime Contractor must include the Contract Special Provisions, Wage Decision(s) and Truck Rental Rate Schedule in all Subcontracts, agreements and purchase orders with lower tier Contractors.⁹⁰ This requirement also applies to all lower tier subcontractors.

XVI. SITE OF WORK REQUIREMENTS

- A. **Poster Board.** The Prime Contractor must construct and display a poster board containing all required posters. The poster board must be accurate, legible, and accessible to all project Workers from the first day of Work until the project is one hundred percent (100%) complete.⁹¹ A poster board at an off-site location, or inside a construction trailer, does not meet this requirement.
- B. **How to Obtain a Poster Board.** The Prime Contractor may obtain the required posters and the necessary contact information that is required to be inserted on each poster by visiting the MnDOT LCU website.⁹²
- C. **Employee Interviews.** The Contractor must permit representatives from the Department or other governmental entities⁹³ to interview Workers at any time during working hours on the project.⁹⁴

XVII. CHILD LABOR

- A. **No Worker under the Age of 18.** No Worker under the age of 18 is allowed to perform Work on a Project Site, except pursuant to Section XVII B below.⁹⁵
- B. **Parental Supervision.** A Worker under the age of 18 may perform Work on a Project Site if all of the following criteria are met:
 1. The Contractor (Employer) is not subject to FLSA.
 2. The Worker is employed in a corporation owned solely by one or both parents.
 3. The Worker is supervised by the parent(s).
 4. The Worker is not working in a hazardous occupation.⁹⁶
- C. **Removal of Minor from Project.** The Engineer or inspector may remove a Worker that appears to be under the age of 18 from the Project Site until the Contractor or Worker can demonstrate proof of age and compliance with all applicable federal and state regulations.⁹⁷

XVIII. NON-COMPLIANCE AND ENFORCEMENT

- A. **Case-by-Case Enforcement.** The Department has the authority to enforce the prevailing wage law on a case-by-case.⁹⁸
- B. **Prime Contractor Responsible for Unpaid Wages.** The Prime Contractor will be held liable for any unpaid wages to its Workers or those of any lower tier Contractor.⁹⁹
- C. **Enforcement Options.** If evidence shows that a Contractor has violated prevailing wage requirements, or these Special Provisions, the Department may, after written notice, implement one or more of the following:

⁹⁰ MnDOT Standard Specifications for Construction, Section 1801

⁹¹ Minn. Stat. 177.44, Subdivision 5

⁹² www.dot.state.mn.us/const/labor/posterboards

⁹³ MnDLI, U.S. DOL., U.S. Department of Transportation, Federal Highways Administration

⁹⁴ MnDOT Standard Specifications for Construction, Section 1511

⁹⁵ Minn. R. 5200.0910, Subpart F; 29 CFR Part 570.2(a)(ii)

⁹⁶ Minn. R. 5200.0930, Subpart 4

⁹⁷ Minn. Stat. 181A.06, Subdivision 4; MnDOT Standard Specifications for Construction, Section 1701

⁹⁸ See International Union of Operating Engineers, Local 49 v. MnDOT, No. C6-97-1582, 1998 WL 74281, at *2 (Minn. App. Feb. 24, 1998)

⁹⁹ MnDOT Standard Specifications for Construction, Section 1801

1. **Withholding Payment.** The Department may withhold from the Prime Contractor payments relating to prevailing wage underpayments.¹⁰⁰
2. **Non-Responsible Contractor.** The Department may reject a bid from a Prime Contractor that has received two (2) or more Determination Letters within a three (3) year period from the Department finding an underpayment by the Contractor to its own employees.¹⁰¹
3. **Default.** The Department may take the prosecution of the Work out of the hands of the Prime Contractor, place the Contractor in default, and terminate the Contract for failure to comply.¹⁰²
4. **Suspension or Debarment.** The Department may refer violations and matters of non-compliance by a Contractor to the Minnesota Department of Administration for suspension or debarment proceedings.¹⁰³
5. **County Attorney.** The Department may refer suspected criminal violations by Contractor to the appropriate local county attorney for prosecution.¹⁰⁴
6. **Financial Penalties.** Any Contractor who violates the state prevailing wage law is guilty of a misdemeanor and may be fined not more than \$300 or imprisoned not more than 90 days or both. Each day that the violation continues is a separate offense.¹⁰⁵ A Contractor may be fined up to \$1,000 for each failure to maintain records.¹⁰⁶
7. **False Claims Act Violation.** All required payroll and certification reports are legal documents; knowing falsification of the documents by a Contractor may result in civil action and/or criminal prosecution¹⁰⁷ and may be grounds for debarment proceedings.¹⁰⁸
8. **Compliance Order.** The Department may request that MnDLI issue a compliance order to a Contractor for violations of the state prevailing wage law. If the Contractor is found to have committed a violation, liquidated damages and other costs may be assessed against the Employer.¹⁰⁹
9. **Private Right of Action.** The Department may direct an employee to pursue a civil action in district court against its Employer for failure to comply with the proper payment of wages.¹¹⁰ If the Employer is found to have committed a violation, liquidated damages and other costs may be assessed against the Employer.¹¹¹
10. **Fringe Benefits; Misdemeanor.** A Contractor that is obligated to deposit Fringe Benefit contributions on behalf of a Worker into a financially responsible trustee, third person, fund, plan, or program and fails to make timely contributions is guilty of a gross misdemeanor or other violations under federal law.¹¹²

¹⁰⁰ MnDOT Standard Specifications for Construction, Section 1906

¹⁰¹ Minn. Stat. 16C.285

¹⁰² MnDOT Standard Specifications for Construction, Section 1808

¹⁰³ Minn. R. 1230.1150, Subpart 2(A)(4)

¹⁰⁴ Minn. Stat. 177.44, Subdivision 7

¹⁰⁵ Minn. Stat. 177.44, Subdivision 6

¹⁰⁶ Minn. Stat. 177.30(b)

¹⁰⁷ Minn. Stat. 15C.02; , Minn. Stat. 161.315; Minn. Stat. 177.32; Minn. Stat. 177.43, Subdivision 5, Minn. Stat. 609.63

¹⁰⁸ Minn. Stat. 161.315 and Minn. Stat. 609.63

¹⁰⁹ Minn. Stat. 177.43, Subdivision 6a

¹¹⁰ Minn. Stat. 177.27, Subdivision 8

¹¹¹ Minn. Stat. 177.27, Subdivision 10

¹¹² Minn. Stat. 181.74, Subdivision 1

**THE FOLLOWING APPENDICES ARE FOR
EXPLANATORY PURPOSES ONLY.
FOR SPECIFIC QUESTIONS, PLEASE CONTACT LCU.¹¹³**

APPENDIX A**SALARIED WORKER WAGE COMPUTATION**

Salaried Workers. In order to convert the Worker's salary into an hourly rate of pay, divide the employee's weekly, bi-weekly or monthly earnings by the total number of hours Worked (government and non-government), including overtime hours for the time period used.¹¹⁴

$$\text{\$800.00 (weekly salary) / 40 (total weekly hours) = \$20.00}$$

$$\text{\$1,600.00 (bi-weekly salary) / 80 (total bi-weekly hours) = \$20.00}$$

$$\text{\$3,200.00 (monthly salary) / 160 (total monthly hours) = \$20.00}$$

APPENDIX B**FRINGE BENEFIT CREDIT**

Fringe Benefit Credit Calculation. The Employer contributes monthly (\$600.00) for medical insurance on behalf of a Worker. In order to calculate the projected hourly credit that the Employer can take, the Employer should: (1) add the monthly contributions for each Worker, (2) multiply by twelve (12) months, and (3) divide the total cost of the benefit by the total hours worked (government and non-government)¹¹⁵ (see annual example below). Quarterly and monthly examples are also provided.

Annual: $(\$600.00) \times (12 \text{ months}) = \$7,200.00$
 $(\$7,200.00) / (2080 \text{ hours}) = \underline{\text{\$3.46 per hour credit}}$

Quarterly: $(\$600.00) \times (3 \text{ months}) = \$1,800.00$
 $(\$1,800.00) / (520 \text{ hours}) = \underline{\text{\$3.46 per hour credit}}$

Monthly: $(\$600.00) \times (1 \text{ month}) = \600.00
 $(\$600.00) / (173 \text{ hours}) = \underline{\text{\$3.47 per hour credit}}$

End of Year Self-Audit. At the end of the calendar year, the Contractor must conduct an audit to determine if the hourly fringe benefit credit taken for each Worker was accurate. The Contractor must calculate the total annual fringe benefits paid on behalf of each Worker and divide that amount by the total number of hours worked (government and non-government) by that Worker. If the hourly fringe benefit credit was less than what was reported on a CPR, the contractor must compensate the Worker the hourly difference, multiplied by the total hours worked under the Contract.

APPENDIX C**APPRENTICE RATE OF PAY**

State Requirements. The Apprentice must be compensated according his/her level of progress, which is expressed as a percentage of the Journeyworker wage that is established in the program.

$$\text{Journeyworker Wage Established in Program} = \text{\$25.00}$$

$$\text{Apprentice Level of Progress} = \underline{\text{60\%}}$$

$$\text{\$25.00} * (.60) = \text{\$15.00}$$

¹¹³ lcusupport.dot@state.mn.us or (651) 366-4238

¹¹⁴ United States Department of Labor Field Operation Handbook, Section 15f08

¹¹⁵ United States Department of Labor Field Operation Handbook, Section 15f12

APPENDIX D

PREVAILING WAGE OVERTIME CALCULATION

Overtime Hourly Rate of Pay. Here is the formula to calculate the required minimum overtime.¹¹⁶

$$OT = (PW * .5) + (HW) + (RF) + (F)$$

Definition of OT Acronyms

OT: overtime.

PW: the basic hourly prevailing wage rate established in a federal and/or state prevailing Wage Decision.

HW: hourly wage rate paid to a Worker.

RF: remaining fringe, which means the difference between the Contract hourly Fringe Benefit rate and the actual hourly Fringe Benefit rate paid by the Contractor to a third party on behalf of a Worker.

F: Fringe Benefit contributions that are bona-fide and contributed by an Employer to a third party on behalf of a Worker.

The Total Prevailing Wage Rate for a Worker is \$30.00, which is comprised of an hourly basic rate of \$20.00 and an hourly fringe rate of \$10.00. The table below includes various hourly basic and Fringe Benefit payments that a Contractor could potentially make to a Worker.

OT CALCULATION FORMULA AND EXAMPLES				
OT = (PW * .5) + (HW) + (RF) + (F)				
Hourly Wage Paid	Fringe Benefits Paid	Payment To Employee (PW * .5) + (HW) + (RF)	Fringe Payment + (F)	Total Payment = OT
\$ 20.00	\$ 10.00	(\$ 20.00 * .5) + (\$ 20.00) + (\$ 0.00) = \$ 30.00	+ \$ 10.00	= \$ 40.00
\$ 18.00	\$ 12.00	(\$ 20.00 * .5) + (\$ 18.00) + (\$ 0.00) = \$ 28.00	+ \$ 12.00	= \$ 40.00
\$ 22.00	\$ 8.00	(\$ 20.00 * .5) + (\$ 22.00) + (\$ 0.00) = \$ 32.00	+ \$ 8.00	= \$ 40.00
\$ 30.00	\$ 0.00	(\$ 20.00 * .5) + (\$ 30.00) + (\$ 0.00) = \$ 40.00	+ \$ 0.00	= \$ 40.00
\$ 24.00	\$ 4.00	(\$ 20.00 * .5) + (\$ 24.00) + (\$ 2.00) = \$ 36.00	+ \$ 4.00	= \$ 40.00

Regarding the last example the Contractor would be required to pay an additional \$2.00 to the Worker, which is wages in lieu of fringe for a straight time hourly rate of \$26.00 not \$24.00.

A Contractor subject to the Fair Labor Standards Act (FLSA) may be subject to additional overtime compensation requirements.

¹¹⁶ United States Department of Labor Field Operation Handbook, Section 15k

NOTICE TO BIDDERS

Minnesota Statutes require prompt payment to subcontractors:

Minn. Stat. § 471.425 PROMPT PAYMENT OF LOCAL GOVERNMENT BILLS.

Subdivision 1. **Definitions.** For the purposes of this section, the following terms have the meanings here given them.

. . . (d) "Municipality" means any home rule charter or statutory city, county, town, school district, political subdivision or agency of local government. "Municipality" means the Metropolitan Council or any board or agency created under chapter 473.

. . . Subd. 4a. **Prompt payment to subcontractors.** Each contract of a municipality must require the prime contractor to pay any subcontractor within ten days of the prime contractor's receipt of payment from the municipality for undisputed services provided by the subcontractor. The contract must require the prime contractor to pay interest of 1-1/2 percent per month or any part of a month to the subcontractor on any undisputed amount not paid on time to the subcontractor. The minimum monthly interest penalty payment for an unpaid balance of \$100 or more is \$10. For an unpaid balance of less than \$100, the prime contractor shall pay the actual penalty due to the subcontractor. A subcontractor who prevails in a civil action to collect interest penalties from a prime contractor must be awarded its costs and disbursements, including attorney's fees, incurred in bringing the action.

Minn. Stat. § 15.72 PROGRESS PAYMENTS ON PUBLIC CONTRACTS; RETAINAGE.

. . . Subd. 2. **Retainage.** . . . (c) A contractor on a public contract for a public improvement must pay all remaining retainage to its subcontractors no later than ten days after receiving payment of retainage from the public contracting agency, unless there is a dispute about the work under a subcontract. If there is a dispute about the work under a subcontract, the contractor must pay out retainage to any subcontractor whose work is not involved in the dispute, and must provide a written statement detailing the amount and reason for the withholding to the affected subcontractor.

MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY PREVAILING WAGES FOR STATE FUNDED CONSTRUCTION PROJECTS



THIS NOTICE MUST BE POSTED ON THE JOBSITE IN A CONSPICUOUS PLACE

Construction Type: Highway and Heavy

Region Number: 09

Counties within region:

- ANOKA-02
- CARVER-10
- CHISAGO-13
- DAKOTA-19
- HENNEPIN-27
- RAMSEY-62
- SCOTT-70
- WASHINGTON-82

Effective: 2023-11-20 Revised: 2024-02-05

This project is covered by Minnesota prevailing wage statutes. Wage rates listed below are the minimum hourly rates to be paid on this project.

All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at a rate of one and one half (1 1/2) times the basic hourly rate. *Note: Overtime pay after eight (8) hours on the project must be paid even if the worker does not exceed forty (40) hours in the work week.*

Violations on MnDOT highways and road projects should be reported to:

Department of Transportation
 Office of Construction
 Transportation Building MS650
 John Ireland Blvd
 St. Paul, MN 55155
 (651) 366-4209

All other prevailing wage violations and questions should be sent to:

Department of Labor and Industry
 Prevailing Wage Section
 443 Lafayette Road N
 St Paul, MN 55155
 (651) 284-5091
DLI.PrevWage@state.mn.us

LABOR CODE AND CLASS	EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE	
LABORERS (101 - 112) (SPECIAL CRAFTS 701 - 730)					
101	LABORER, COMMON (GENERAL LABOR WORK)	2023-11-20	38.90	23.49	62.39
		2024-05-01	41.63	24.24	65.87
102	LABORER, SKILLED (ASSISTING SKILLED CRAFT JOURNEYMAN)	2023-11-20	38.90	23.49	62.39
		2024-05-01	41.63	24.24	65.87

LABOR CODE AND CLASS	EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
103 LABORER, LANDSCAPING (GARDENER, SOD LAYER AND NURSERY OPERATOR)	2023-11-20	28.29	20.41	48.70
	2024-05-01	30.04	21.16	51.20
104 FLAG PERSON	2023-11-20	38.90	23.49	62.39
	2024-05-01	41.63	24.24	65.87
105 WATCH PERSON	2023-11-20	35.50	22.94	58.44
	2024-05-01	38.23	23.69	61.92
106 BLASTER	2023-11-20	22.08	6.87	28.95
107 PIPELAYER (WATER, SEWER AND GAS)	2023-11-20	42.40	23.49	65.89
	2024-05-01	45.13	24.24	69.37
108 TUNNEL MINER	2023-11-20	40.40	23.49	63.89
	2024-05-01	43.13	24.24	67.37
109 UNDERGROUND AND OPEN DITCH LABORER (EIGHT FEET BELOW STARTING GRADE LEVEL)	2023-11-20	40.40	23.49	63.89
	2024-05-01	43.13	24.24	67.37
110 SURVEY FIELD TECHNICIAN (OPERATE TOTAL STATION, GPS RECEIVER, LEVEL, ROD OR RANGE POLES, STEEL TAPE MEASUREMENT; MARK AND DRIVE STAKES; HAND OR POWER DIGGING FOR AND IDENTIFICATION OF MARKERS OR MONUMENTS; PERFORM AND CHECK CALCULATIONS; REVIEW AND UNDERSTAND CONSTRUCTION PLANS AND LAND SURVEY MATERIALS). THIS CLASSIFICATION DOES NOT APPLY TO THE WORK PERFORMED ON A PREVAILING WAGE PROJECT BY A LAND SURVEYOR WHO IS LICENSED PURSUANT TO MINNESOTA STATUTES, SECTIONS 326.02 TO 326.15.	2023-11-20	38.90	23.49	62.39
	2024-05-01	41.63	24.24	65.87
111 TRAFFIC CONTROL PERSON (TEMPORARY SIGNAGE)	2023-11-20	38.90	23.49	62.39

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
		2024-05-01	41.63	24.24	65.87
112	QUALITY CONTROL TESTER (FIELD AND COVERED OFF-SITE FACILITIES; TESTING OF AGGREGATE, ASPHALT, AND CONCRETE MATERIALS); LIMITED TO MN DOT HIGHWAY AND HEAVY CONSTRUCTION PROJECTS WHERE THE MN DOT HAS RETAINED QUALITY ASSURANCE PROFESSIONALS TO REVIEW AND INTERPRET THE RESULTS OF QUALITY CONTROL TESTERS. SERVICES PROVIDED BY THE CONTRACTOR.	2023-11-20	16.28	4.07	20.35
SPECIAL EQUIPMENT (201 - 204)					
201	ARTICULATED HAULER	2023-11-20	42.49	25.20	67.69
		2024-04-29	44.67	26.40	71.07
202	BOOM TRUCK	2023-11-20	44.94	25.20	70.14
		2024-04-29	47.25	26.40	73.65
203	LANDSCAPING EQUIPMENT, INCLUDES HYDRO SEEDER OR MULCHER, SOD ROLLER, FARM TRACTOR WITH ATTACHMENT SPECIFICALLY SEEDING, SODDING, OR PLANT, AND TWO-FRAMED FORKLIFT (EXCLUDING FRONT, POSIT-TRACK, AND SKID STEER LOADERS), NO EARTHWORK OR GRADING FOR ELEVATIONS	2023-11-20	28.29	20.41	48.70
		2024-05-01	30.04	21.16	51.20
204	OFF-ROAD TRUCK	2023-11-20	42.49	25.20	67.69
		2024-04-29	44.67	26.40	71.07
205	PAVEMENT MARKING OR MARKING REMOVAL EQUIPMENT (ONE OR TWO PERSON OPERATORS); SELF-PROPELLED TRUCK OR TRAILER MOUNTED UNITS.	2023-11-20	32.04	21.96	54.00

HIGHWAY/HEAVY POWER EQUIPMENT OPERATOR

LABOR CODE AND CLASS	EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
GROUP 2	2023-11-20	43.38	25.20	68.58
	2024-04-29	45.61	26.40	72.01
302	HELICOPTER PILOT (HIGHWAY AND HEAVY ONLY)			
303	CONCRETE PUMP (HIGHWAY AND HEAVY ONLY)			
304	ALL CRANES WITH OVER 135-FOOT BOOM, EXCLUDING JIB (HIGHWAY AND HEAVY ONLY)			
305	DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR OTHER SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS THREE CUBIC YARDS AND OVER MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)			
306	GRADER OR MOTOR PATROL			
307	PILE DRIVING (HIGHWAY AND HEAVY ONLY)			
308	TUGBOAT 100 H.P. AND OVER WHEN LICENSE REQUIRED (HIGHWAY AND HEAVY ONLY)			
GROUP 3	2023-11-20	42.81	25.20	68.01
	2024-04-29	45.01	26.40	71.41
309	ASPHALT BITUMINOUS STABILIZER PLANT			
310	CABLEWAY			
311	CONCRETE MIXER, STATIONARY PLANT (HIGHWAY AND HEAVY ONLY)			
312	DERRICK (GUY OR STIFFLEG)(POWER)(SKIDS OR STATIONARY) (HIGHWAY AND HEAVY ONLY)			
313	DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS, UP TO THREE CUBIC YARDS MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS (HIGHWAY AND HEAVY ONLY)			
314	DREDGE OR ENGINEERS, DREDGE (POWER) AND ENGINEER			
315	FRONT END LOADER, FIVE CUBIC YARDS AND OVER INCLUDING ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)			
316	LOCOMOTIVE CRANE OPERATOR			
317	MIXER (PAVING) CONCRETE PAVING, ROAD MOLE, INCLUDING MUCKING OPERATIONS, CONWAY OR SIMILAR TYPE			
318	MECHANIC . WELDER ON POWER EQUIPMENT (HIGHWAY AND HEAVY ONLY)			
319	TRACTOR . BOOM TYPE (HIGHWAY AND HEAVY ONLY)			
320	TANDEM SCRAPER			
321	TRUCK CRANE . CRAWLER CRANE (HIGHWAY AND HEAVY ONLY)			
322	TUGBOAT 100 H.P AND OVER (HIGHWAY AND HEAVY ONLY)			
GROUP 4	2023-11-20	42.49	25.20	67.69
	2024-04-29	44.67	26.40	71.07
323	AIR TRACK ROCK DRILL			
324	AUTOMATIC ROAD MACHINE (CMI OR SIMILAR) (HIGHWAY AND HEAVY ONLY)			
325	BACKFILLER OPERATOR			
326	CONCRETE BATCH PLANT OPERATOR (HIGHWAY AND HEAVY ONLY)			
327	BITUMINOUS ROLLERS, RUBBER TIRED OR STEEL DRUMMED (EIGHT TONS AND OVER)			
328	BITUMINOUS SPREADER AND FINISHING MACHINES (POWER), INCLUDING PAVERS, MACRO SURFACING AND MICRO SURFACING, OR SIMILAR TYPES (OPERATOR AND SCREED PERSON)			
329	BROKK OR R.T.C. REMOTE CONTROL OR SIMILAR TYPE WITH ALL ATTACHMENTS			

LABOR CODE AND CLASS	EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
330				
	CAT CHALLENGER TRACTORS OR SIMILAR TYPES PULLING ROCK WAGONS, BULLDOZERS AND SCRAPERS			
331				
	CHIP HARVESTER AND TREE CUTTER			
332				
	CONCRETE DISTRIBUTOR AND SPREADER FINISHING MACHINE, LONGITUDINAL FLOAT, JOINT MACHINE, AND SPRAY MACHINE			
333				
	CONCRETE MIXER ON JOBSITE (HIGHWAY AND HEAVY ONLY)			
334				
	CONCRETE MOBIL (HIGHWAY AND HEAVY ONLY)			
335				
	CRUSHING PLANT (GRAVEL AND STONE) OR GRAVEL WASHING, CRUSHING AND SCREENING PLANT			
336				
	CURB MACHINE			
337				
	DIRECTIONAL BORING MACHINE			
338				
	DOPE MACHINE (PIPELINE)			
339				
	DRILL RIGS, HEAVY ROTARY OR CHURN OR CABLE DRILL (HIGHWAY AND HEAVY ONLY)			
340				
	DUAL TRACTOR			
341				
	ELEVATING GRADER			
342				
	FORK LIFT OR STRADDLE CARRIER (HIGHWAY AND HEAVY ONLY)			
343				
	FORK LIFT OR LUMBER STACKER (HIGHWAY AND HEAVY ONLY)			
344				
	FRONT END, SKID STEER OVER 1 TO 5 C YD			
345				
	GPS REMOTE OPERATING OF EQUIPMENT			
346				
	HOIST ENGINEER (POWER) (HIGHWAY AND HEAVY ONLY)			
347				
	HYDRAULIC TREE PLANTER			
348				
	LAUNCHER PERSON (TANKER PERSON OR PILOT LICENSE)			
349				
	LOCOMOTIVE (HIGHWAY AND HEAVY ONLY)			
350				
	MILLING, GRINDING, PLANNING, FINE GRADE, OR TRIMMER MACHINE			
351				
	MULTIPLE MACHINES, SUCH AS AIR COMPRESSORS, WELDING MACHINES, GENERATORS, PUMPS (HIGHWAY AND HEAVY ONLY)			
352				
	PAVEMENT BREAKER OR TAMPING MACHINE (POWER DRIVEN) MIGHTY MITE OR SIMILAR TYPE			
353				
	PICKUP SWEEPER, ONE CUBIC YARD AND OVER HOPPER CAPACITY(HIGHWAY AND HEAVY ONLY)			
354				
	PIPELINE WRAPPING, CLEANING OR BENDING MACHINE			
355				
	POWER PLANT ENGINEER, 100 KWH AND OVER (HIGHWAY AND HEAVY ONLY)			
356				
	POWER ACTUATED HORIZONTAL BORING MACHINE, OVER SIX INCHES			
357				
	PUGMILL			
358				
	PUMPCRETE (HIGHWAY AND HEAVY ONLY)			
359				
	RUBBER-TIRED FARM TRACTOR WITH BACKHOE INCLUDING ATTACHMENTS (HIGHWAY AND HEAVY ONLY)			
360				
	SCRAPER			
361				
	SELF-PROPELLED SOIL STABILIZER			
362				
	SLIP FORM (POWER DRIVEN) (PAVING)			
363				
	TIE TAMPER AND BALLAST MACHINE			
364				
	TRACTOR, BULLDOZER (HIGHWAY AND HEAVY ONLY)			
365				
	TRACTOR, WHEEL TYPE, OVER 50 H.P. WITH PTO UNRELATED TO LANDSCAPING (HIGHWAY AND HEAVY ONLY)			
366				

LABOR CODE AND CLASS	EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
367				
368				
GROUP 5	2023-11-20	39.33	25.20	64.53
	2024-04-29	41.36	26.40	67.76
369				
370				
371				
372				
373				
374				
375				
376				
377				
378				
379				
380				
381				
382				
383				
384				
385				
GROUP 6	2023-11-20	38.06	25.20	63.26
	2024-04-29	40.02	26.40	66.42
387				
388				
389				
390				
391				
392				
393				
394				
395				
396				
397				

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
TRUCK DRIVERS					
GROUP 1		2023-11-20	31.25	17.50	48.75
601	MECHANIC . WELDER				
602	TRACTOR TRAILER DRIVER				
603	TRUCK DRIVER (HAULING MACHINERY INCLUDING OPERATION OF HAND AND POWER OPERATED WINCHES)				
GROUP 2		2023-11-20	34.70	21.76	56.46
604	FOUR OR MORE AXLE UNIT, STRAIGHT BODY TRUCK				
GROUP 3		2023-11-20	34.60	21.76	56.36
605	BITUMINOUS DISTRIBUTOR DRIVER				
606	BITUMINOUS DISTRIBUTOR (ONE PERSON OPERATION)				
607	THREE AXLE UNITS				
GROUP 4		2023-11-20	37.54	21.76	59.30
608	BITUMINOUS DISTRIBUTOR SPRAY OPERATOR (REAR AND OILER)				
609	DUMP PERSON				
610	GREASER				
611	PILOT CAR DRIVER				
612	RUBBER-TIRED, SELF-PROPELLED PACKER UNDER 8 TONS				
613	TWO AXLE UNIT				
614	SLURRY OPERATOR				
615	TANK TRUCK HELPER (GAS, OIL, ROAD OIL, AND WATER)				
616	TRACTOR OPERATOR, UNDER 50 H.P.				
SPECIAL CRAFTS					
701	HEATING AND FROST INSULATORS	2023-11-20	47.10	24.40	71.50
702	BOILERMAKERS	2023-11-20	44.37	30.55	74.92
		2024-01-01	46.00	31.93	77.93
703	BRICKLAYERS	2023-11-20	45.47	25.76	71.23
		2024-05-01	48.51	25.76	74.27
704	CARPENTERS	2023-11-20	43.58	27.91	71.49
		2024-05-01	47.08	27.91	74.99
705	CARPET LAYERS (LINOLEUM)				

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVVAGE@STATE.MN.US					
706	CEMENT MASONS	2023-11-20	45.17	24.22	69.39
		2024-04-29	48.57	24.22	72.79
707	ELECTRICIANS	2023-11-20	52.00	32.80	84.80
711	GROUND PERSON	2023-11-20	35.60	18.92	54.52
712	IRONWORKERS	2023-11-20	43.00	34.11	77.11
		2024-04-28	46.00	34.11	80.11
713	LINEMAN	2023-11-20	50.86	23.57	74.43
714	MILLWRIGHT	2023-11-20	40.39	33.37	73.76
		2024-05-01	43.44	33.37	76.81
715	PAINTERS (INCLUDING HAND BRUSHED, HAND SPRAYED, AND THE TAPING OF PAVEMENT MARKINGS)	2023-11-20	38.70	22.76	61.46
716	PILEDRIIVER (INCLUDING VIBRATORY DRIVER OR EXTRACTOR FOR PILING AND SHEETING OPERATIONS)	2023-11-20	43.53	27.91	71.44
		2024-05-01	47.03	27.91	74.94
717	PIPEFITTERS . STEAMFITTERS	2023-11-20	53.94	33.30	87.24
		2024-05-01	57.14	33.30	90.44
719	PLUMBERS	2023-11-20	52.60	31.10	83.70
721	SHEET METAL WORKERS	2023-11-20	44.46	29.17	73.63
723	TERRAZZO WORKERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVVAGE@STATE.MN.US			
724	TILE SETTERS	2023-11-20	34.76	23.29	58.05
725	TILE FINISHERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVVAGE@STATE.MN.US			

LABOR CODE AND CLASS	EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE	
727	WIRING SYSTEM TECHNICIAN	2023-11-20	44.61	20.16	64.77
728	WIRING SYSTEMS INSTALLER	2023-11-20	31.25	16.34	47.59
729	ASBESTOS ABATEMENT WORKER	2023-11-20	37.63	23.36	60.99
		2024-01-01	39.86	24.11	63.97
730	SIGN ERECTOR	FOR RATE CALL 651-284-5091 OR EMAIL DL.PREVWAGE@STATE.MN.US			



Dec. 18, 2023

Notice of truck rental rate certification and effective date

The Department of Labor and Industry (DLI) commissioner has certified the minimum truck rental rates for state-funded highway projects effective Dec. 18, 2023. This certification follows the publication of the Notice of Truck Rental Rate Determination in the State Register on Nov. 27, 2023, and the informal conference held pursuant to Minnesota Rules, part 5200.1105 on Dec. 11, 2023.

According to Minnesota Rules, part 5200.1105, the purpose of the informal conference was for DLI to obtain further input regarding the determined rates prior to the certification. No written input regarding the determination was received by DLI prior to the informal conference.

The truck rental rate is determined for each equipment type by adding the average hourly cost of operating the vehicle to the certified prevailing-wage rate for the driver. The average hourly operating costs are determined by voluntary survey of truck owner operators, trucking contractors and trucking firms. Cost data used in DLI’s analysis must be representative of five trucking firms of various size and five independent truck owner operators for each type of truck.

The determination of the minimum truck rental rates by region are as follows.

Three-axle units

Region	Effective date	607 driver rate	Operating cost	Truck rental rate
Region 1	Certification date	\$58.61	\$37.35	\$95.96
	Increase May 1, 2024	\$61.54	\$37.35	\$98.89
Region 2	Certification date	\$51.97	\$37.35	\$89.32
	Increase May 1, 2024	\$54.57	\$37.35	\$91.92
Region 3	Certification date	\$45.02	\$37.35	\$82.37
Region 4	Certification date	\$51.97	\$37.35	\$89.32

Region	Effective date	607 driver rate	Operating cost	Truck rental rate
	Increase May 1, 2024	\$54.57	\$37.35	\$91.92
Region 5	Certification date	\$39.50	\$37.35	\$76.85
Region 6	Certification date	\$54.16	\$37.35	\$91.51
Region 7	Certification date	\$46.65	\$37.35	\$84.00
Region 8	Certification date	\$32.16	\$37.35	\$69.51
Region 9	Certification date	\$56.36	\$37.35	\$93.71
Region 10	Certification date	\$55.96	\$37.35	\$93.31

Four or more axle units

Region	Effective date	604 driver rate	Operating cost	Truck rental rate
Region 1	Certification date	\$58.71	\$51.50	\$110.21
	Increase May 1, 2024	\$61.65	\$51.50	\$113.15
Region 2	Certification date	\$52.11	\$51.50	\$103.61
	Increase May 1, 2024	54.72	\$51.50	\$106.22
Region 3	Certification date	\$38.51	\$51.50	\$90.01
Region 4	Certification date	\$53.73	\$51.50	\$105.23
Region 5	Certification date	\$44.00	\$51.50	\$95.50
Region 6	Certification date	\$54.26	\$51.50	\$105.76

Region 7	Certification date	\$46.20	\$51.50	\$97.70
Region 8	Certification date	\$43.75	\$51.50	\$95.25
Region 9	Certification date	\$56.46	\$51.50	\$107.96
Region 10	Certification date	\$56.06	\$51.50	\$107.56

Tractor

Region	Effective date	602 driver rate	Operating cost	Tractor-only truck rental rate	Plus trailer operating cost	Tractor trailer rental rate
Region 1	Certification date	\$59.29	\$54.96	\$114.25	\$11.46	\$125.71
	Increase May 1, 2024	\$62.25	\$54.96	\$117.21	\$11.46	\$128.67
Region 2	Certification date	\$52.66	\$54.96	\$107.62	\$11.46	\$119.08
	Increase May 1, 2024	\$55.29	\$54.96	\$110.25	\$11.46	\$121.71
Region 3	Certification date	\$48.35	\$54.96	\$103.31	\$11.46	\$114.77
Region 4	Certification date	\$38.30	\$54.96	\$93.26	\$11.46	\$104.72
Region 5	Certification date	\$42.00	\$54.96	\$96.96	\$11.46	\$108.42
Region 6	Certification date	\$39.50	\$54.96	\$94.46	\$11.46	\$105.92
Region 7	Certification date	\$45.40	\$54.96	\$100.36	\$11.46	\$111.82
Region 8	Certification date	\$48.45	\$54.96	\$103.41	\$11.46	\$114.87
Region 9	Certification date	\$48.75	\$54.96	\$103.71	\$11.46	\$115.17

Region 10	Certification date	\$48.45	\$54.96	\$103.41	\$11.46	\$114.87
-----------	--------------------	---------	---------	----------	---------	----------

The current operating costs and truck rental rates may be reviewed by accessing DLI's website at <https://dli.mn.gov/business/employment-practices/prevaling-wage-minimum-truck-rental-rates>. Questions about the truck rental rates or the informal conference notice below can be answered by calling 651-284-5192.

The minimum truck rental rate for these four types of trucks in the State's 10 highway and heavy construction areas will be effective for all highway and heavy construction projects financed in whole or part with state funds advertised for bid on or after the day the notice of certification is published in the *State Register*.

Sincerely,

Nicole Blissenbach

DLI commissioner

SPECIAL PROVISIONS - SP2020 BOOK
Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021
Page i
S.A.P. # 002-628-008

Section No.	Item	Page No.
	<u>DIVISION S</u>	
S-1	CONTACT INFORMATION.....	3
S-2	WORKFORCE CERTIFICATE.....	3
S-3	PROTECTION OF FISH AND WILDLIFE RESOURCES.....	3
S-4	PROTECTION OF FISH AND WILDLIFE RESOURCES (BLANDING’S TURTLES).....	4
S-5	EQUAL EMPLOYMENT OPPORTUNITY.....	5
S-6	RESPONSIBLE CONTRACTOR.....	9
S-7	(1102) ABBREVIATIONS AND MEASUREMENT UNITS.....	10
S-8	(1103) DEFINITIONS.....	10
S-9	(1203) ACCESS TO PROPOSAL PACKAGE.....	11
S-10	(1206) PREPARATION AND DELIVERY OF PROPOSAL.....	11
S-11	(1208) PROPOSAL GUARANTY.....	11
S-12	(1210) REVISION OF PROPOSAL PACKAGE OR WITHDRAWAL OF PROPOSALS.....	11
S-13	(1507) UTILITY PROPERTY AND SERVICE.....	12
S-14	(1508) CONSTRUCTION STAKES, LINES, AND GRADES.....	12
S-15	(1602) NATURAL MATERIAL SOURCES.....	13
S-16	(1606) STORAGE OF MATERIALS.....	13
S-17	(1701) LAWS TO BE OBSERVED.....	14
S-18	(1701) LAWS TO BE OBSERVED (WETLANDS).....	15
S-19	(1701) LAWS TO BE OBSERVED (BRIDGE).....	15
S-20	(1701) LAWS TO BE OBSERVED (CULTURAL RESOURCES – FEDERALLY AND STATE FUNDED).....	17
S-21	(1702) PERMITS.....	18
S-22	(1706) EMPLOYEE HEALTH AND WELFARE.....	18
S-23	(1707) PUBLIC CONVENIENCE AND SAFETY.....	18
S-24	(1712) PROTECTION AND RESTORATION OF PROPERTY.....	19
S-25	(1714) RESPONSIBILITY FOR DAMAGE CLAIMS.....	19
S-26	(1801) SUBLETTING OF CONTRACT.....	19
S-27	(1802) QUALIFICATIONS OF WORKERS.....	19
S-28	(1803) PROGRESS SCHEDULES (BAR CHART/CPM SCHEDULE).....	20
S-29	(1806) DETERMINATION AND EXTENSION OF CONTRACT TIME.....	20
S-30	(1806) DETERMINATION AND EXTENSION OF CONTRACT TIME (BRIDGES OVER WATER).....	21
S-31	(1807) FAILURE TO COMPLETE THE WORK ON TIME.....	21
S-32	(1807) FAILURE TO COMPLETE THE WORK ON TIME (MONETARY DEDUCTIONS).....	21
S-33	(1901) MEASUREMENT OF QUANTITIES.....	22
S-34	(1902) SCOPE OF PAYMENT.....	24
S-35	(1906) PARTIAL PAYMENTS.....	24
S-36	(1910) COST ESCALATION.....	24
S-37	(2101) CLEARING AND GRUBBING.....	24
S-38	(2104) REMOVING PAVEMENT AND MISCELLANEOUS STRUCTURES (REMOVE AND DISPOSE OF TREATED WOOD).....	25
S-39	(2106) EXCAVATION AND EMBANKMENT (COMPACTED VOLUME METHOD).....	25
S-40	(2108) GEOSYNTHETIC CONSTRUCTION MATERIALS.....	26
S-41	(2357) BITUMINOUS TACK COAT.....	27
S-42	(2360) PLANT MIXED ASPHALT PAVEMENT.....	28
S-43	(2360) PLANT MIXED ASPHALT PAVEMENT (SMOOTHNESS AND SAMPLING).....	29
S-45	(2399) PAVEMENT SURFACE SMOOTHNESS.....	30
S-46	(2433) STRUCTURE RENOVATION.....	32
S-47	(2442) REMOVAL OF EXISTING BRIDGES.....	32
S-48	(2451) STRUCTURAL BACKFILL.....	32
S-49	(2461) STRUCTURAL CONCRETE.....	33
S-50	(2462) PRECAST CONCRETE.....	40

SPECIAL PROVISIONS - SP2020 BOOK
Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021
Page ii
S.A.P. # 002-628-008

S-51	(2501) PIPE CULVERTS	40
S-52	(2501) PIPE CULVERT	41
S-53	(2506) MANHOLES AND CATCH BASINS	41
S-54	(2511) RIPRAP	41
S-55	(2531) CONCRETE CURBING	43
S-56	(2557) FENCING	43
S-57	(2562) ADDITIONAL TRAFFIC CONTROL DEVICES AND EXTENDED USE OF TRAFFIC CONTROL DEVICES	43
S-58	(2563) TRAFFIC CONTROL	46
S-59	(2573) STORM WATER MANAGEMENT	53
S-60	(2574) SOIL PREPARATION.....	53
S-61	(2575) ESTABLISHING VEGETATION AND CONTROLLING EROSION	53
S-62	(2575) ESTABLISHING VEGETATION AND CONTROLLING EROSION (HYDRAULIC MATRIX).....	54
S-63	(2582) PAVEMENT MARKINGS.....	55
S-64	(2582) PAVEMENT MARKINGS (SPOTTING METHOD AND WR)	56
S-65	(3107) MASONRY MORTAR	56
S-66	(3113) ADMIXTURES FOR CONCRETE	57
S-67	(3131) INTERMEDIATE AGGREGATE FOR PORTLAND CEMENT CONCRETE	57
S-68	(3138) AGGREGATE FOR SURFACE AND BASE COURSES	57
S-69	(3236) REINFORCED CONCRETE PIPE.....	58
S-70	(3238) PRECAST CONCRETE BOX CULVERTS.....	58
S-71	(3401) STEEL FLANGED CHANNEL SIGN POSTS.....	59
S-72	(3491) PRESERVATIVES AND PRESERVATIVE TREATMENT OF WOOD PRODUCTS	60
S-73	(3601) RIPRAP MATERIAL	60
S-74	(3733) GEOSYNTHETIC MATERIALS	60
S-75	(3885) ROLLED EROSION PREVENTION PRODUCTS	63
S-76	(3886) SILT FENCE	68

The Special Provisions for Bridge Construction (Division SB) and the tabulation of the bridge plans follows Division S in this Proposal.

DIVISION S

S-1 CONTACT INFORMATION

SP2020-1

Direct questions about this Project, including pre-bid questions, to Chris Osterhus at 763-324-3189 and Chris.Osterhus@anokacountymn.gov.

S-2 WORKFORCE CERTIFICATE

The local agency cannot execute a contract for goods or services in excess of \$250,000 with a business that has 40 or more full-time employees in this state or a state where the business has its primary place of business on a single day during the prior 12 months, unless the business has a workforce certificate from the commissioner of human rights or has certified in writing that it is exempt. Bidders may find more information on the Workforce Certificate Requirement at Minnesota Statutes Section 363A.36 or at this website:

<https://mn.gov/mdhr/certificates/workforce-certificate/>

S-3 PROTECTION OF FISH AND WILDLIFE RESOURCES

REVISED 09/29/23

S-3.1 Compliance with Environmental Documentation

The Project is located in an area with protected fish & wildlife resources and/or threatened & endangered species. The Contractor must protect these resources in accordance with State and Federal regulations and must implement all applicable avoidance and minimization measures (AMMs).

A BAT PROTECTION

The Project is located in a County inhabited by protected bat species. The Contractor must ensure all operators, employees, and Contractors working in areas of known or presumed bat habitat are aware of environmental commitments and avoidance and minimization measures (AMMs) to protect both bats and their habitat. The Contractor must notify Project Subcontractors during the preconstruction meeting.

Contractor must direct temporary lighting, if used, away from wooded areas during the bat active season (April 1 to Oct 31, inclusive).

Contractor must immediately report (within 24 hours) all bat sightings, live or dead, to the Department’s wildlife ecologist, <https://www.dot.state.mn.us/environment/wildlife.html>.

A.1 Tree Clearing Requirements

Restrict all activities to avoid tree clearing. No tree clearing allowed. **Tree clearing has been completed by others.**

A.2 Bridge and Culvert Requirements

Contractor must inspect Bridges and Culverts, including expansion joints to determine if bats or bat signs are present before beginning Work during the bat active season (April 1 to November 14, inclusive).

Contractor must immediately report (within 24 hours) all bat sightings, live or dead, to the Department’s wildlife ecologist, <https://www.dot.state.mn.us/environment/wildlife.html>.

B BALD EAGLE PROTECTION

Bald Eagles are protected by the Bald and Golden Eagle Protection Act. No Bald Eagle nests are known within the project limits. However, if a Bald Eagle nest is discovered during Project activities, Contractor must immediately report Bald Eagle nests to the Department's wildlife ecologist, <https://www.dot.state.mn.us/environment/wildlife.html>.

C MIGRATORY BIRD PROTECTION

Contractor must cover soil stockpiles when any surface of a stockpile is not in use for 48 hours or longer, Contractor must prevent bird nesting by either covering that surface with fabric or tarps or by grading that surface to a slope no steeper than 65 degrees.

Contractor must inspect Bridges, Culverts, and other Structures (buildings, sheds, garages, etc.), to determine if nesting birds are present before beginning Work.

If a nest or nests are encountered that have eggs and/or live young, photograph the nest, avoid Work in that location and immediately contact the Department's wildlife ecologist, <https://www.dot.state.mn.us/environment/wildlife.html>.

S-4 PROTECTION OF FISH AND WILDLIFE RESOURCES (BLANDING'S TURTLES)

REVISED 09/29/23

A BLANDING'S TURTLE PROTECTION

Blanding's turtles may be present at the Project Site. The Contractor must keep a copy of the Minnesota Department of Natural Resources (DNR) Blanding's Turtle flyer prominently displayed on the job site at all times and train all staff, including any Subcontractors, in proper procedures if any Blanding's Turtles are encountered. The Contractor must provide a copy of the MN DNR's flyer to all Subcontractors performing Work.

The DNR's flyer is available at the DNR's website http://files.dnr.state.mn.us/natural_resources/animals/reptiles_amphibians/turtles/blandings_turtle/flyer.pdf

Contractor must immediately (within 24 hours) report all turtle sightings to the Department's wildlife ecologist, <https://www.dot.state.mn.us/environment/wildlife.html>.

Contractor, subcontractors must move turtles which are in imminent danger, by hand, out of harm's way. Turtles outside project Construction limits, which are not in imminent danger, should be left undisturbed.

Contractor must install silt fencing or similar turtle-proof barriers around all soil stockpiles, gravel pads, and other areas of exposed soil to prevent turtle access from May 15 to July 15. Silt fencing or similar turtle-proof barriers must be removed prior to project closeout. Filter logs do not count as a turtle-proof barrier.

Contractor must inspect trenches, holes, or similar depressions prior to beginning work each day to ensure turtles have not entered these areas. Turtles that have entered these areas are in imminent danger and must be removed, by hand.

The DNR's Blanding's Turtle Flyer with an illustration of an adult Blanding's Turtle must be conspicuously posted adjacent to the Engineer's field office.

S-5 **EQUAL EMPLOYMENT OPPORTUNITY**
NEW WRITE-UP 08/08/22

The Equal Employment Opportunity (EEO) Special Provisions contain the EEO rules and regulations for federal and/or state funded highway construction Projects in Minnesota.

The source of funding determines which EEO regulations and workforce participation goals apply to a specific Project:

- If the Project contains any federal funding, and has a total dollar value exceeding \$10,000, federal EEO regulations and workforce participation goals apply. The Minnesota Department of Transportation's Office of Civil Rights (MnDOT's Office of Civil Rights) monitors and reviews these Projects on behalf of the Federal Highway Administration (FHWA), under federal law (23 U.S.C. § 140) and its accompanying rules (23 C.F.R. § 230). The FHWA allows MnDOT's Office of Civil Rights to apply the state's workforce participation goals to federally funded construction Contracts.
- If the Project contains any state funding, and has a total dollar value exceeding \$100,000, state EEO regulations and workforce participation goals apply. MnDOT's Office of Civil Rights monitors and reviews these Projects in conjunction with the Minnesota Department of Human Rights under state law (Minn. Stat. § 363A.36) and its accompanying rules (Minn. R. 5000.3520 - .3530).
- If the Project contains any state and federal funding, and meets the total dollar value thresholds outlined above, both federal and state EEO regulations, and workforce participation goals apply. MnDOT's Office of Civil Rights monitors and reviews these Projects via a single review and monitoring process that meets federal and state requirements.

NOTICE OF REQUIREMENTS FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY
23 U.S.C. § 140, 23 C.F.R. § 230, 41 C.F.R. § 60, Minn. Stat. § 363A.36, Minn. R. 5000.3520 - .3530

- A. The Contractor's attention is directed to the following:
1. Required Contract Provisions: Federal-Aid Construction Contracts Attachment (FHWA 1273) can be found here: https://edocs-public.dot.state.mn.us/edocs_public/DMResultSet/download?docId=19624648
 2. Equal Employment Opportunity (EEO) State and Federal Laws, Policies and Rules Attachment: Minnesota Affirmative Action Requirements (Pages 1-2); Violence-Free and Respectful Workplace (Pages 3-7); Specific Federal Equal Employment Opportunity Responsibilities (Pages 8-11); Standard Federal and State Equal Employment Construction Contract Specifications (Pages 12-15); Equal Opportunity Clause (Pages 16-17) can be found here: https://edocs-public.dot.state.mn.us/edocs_public/DMResultSet/download?docId=19624471
- B. The Contractor's compliance with 41 C.F.R. § 60-4, and Minn. Stat. § 363A.36 and its accompanying rules shall be based on the following: implementation of the Equal Opportunity Clause (Pages 16-17); adherence to the specific affirmative action obligations of the state and federal authorities outlined in these EEO Special Provisions and the Equal Employment Opportunity (EEO) State and Federal Laws, Policies and Rules Attachment; and good faith efforts to meet the applicable workforce participation goals detailed below.

- C. Highway construction Contracts in excess of \$100,000 in state funds and/or \$10,000 in federal funds are subject to the workforce participation goals for minorities and women established by the Commissioner of the Minnesota Department of Human Rights (MDHR) under Minn. R. 5000.3520. The FHWA allows MnDOT's Office of Civil Rights to apply the state's workforce participation goals to federally funded construction Contracts. The Contractor's attention is directed to the following:
1. Workforce participation goals are percentages of total labor hours that minorities and women should perform in each trade on the Project. Compliance is measured against the total labor hours performed. The Contractor must ensure that labor hours for minorities and women remain substantially uniform in each trade for the duration of the Project.
 2. Workforce participation goals are applied on a county-by-county basis.
 3. For Projects spanning more than one county, the workforce participation goals of the assigned county apply. For statewide Projects, the highest workforce participation goals of any county located within the covered work area apply.
 4. If the applicable workforce participation goals will not be met, the Contractor and any Subcontractor with estimated labor hours on the Project (except independent trucking operators) must demonstrate that specific and significant actions to recruit, hire, and retain minorities and women are being taken. The Contractor is responsible for ensuring Subcontractors are making these requisite good faith efforts.
- D. The transfer of minorities and/or women, including employees and trainees, from different Projects or among Contractors for the sole purpose of meeting the workforce participation goals violates 41 C.F.R. § 60-4, and Minn. Stat. § 363A.36 and its accompanying rules. Such action is a breach of Contract.
- E. The Contractor is directed to the following written notification requirements concerning Subcontracts:
1. If the Project is federally funded: The Office of Federal Contract Compliance Programs must receive written notification of any construction Subcontract over \$10,000 executed at any tier within ten (10) working days of the Contract award.
 2. If the Project is state funded: The Office of Equity and Inclusion for Minnesota Businesses, a division of MDHR, must receive written notification of any construction Subcontracts over \$100,000 executed at any tier within ten (10) working days of the Contract award.

The written notification must provide the following information: Name, address, telephone number, and employee identification number of the Subcontractor; estimated amount of the Subcontract; Project location; and estimated start and end dates.

NOTICE TO CONTRACTOR AND SUBCONTRACTORS: REPORTING REQUIREMENTS

23 U.S.C. § 140, 23 C.F.R. § 230, Minn. Stat. § 363A.36, Minn. R. 5000.3520 - .3530

Workforce participation goals are applied on a county-by-county basis. For Projects spanning more than one county, the workforce participation goals of the assigned county apply. For statewide

Projects, the highest workforce participation goals of any county located within the covered work area apply.

The workforce participation goals for this Project are:

Minority: 22%

Women: 15%

PRE-AWARD

- A. The Contractor must complete and submit a Workforce Plan if the low bid amount is \$5,000,000 or more.
 - B. The Workforce Plan includes the following documents:
 - 1. Project Information Form: To be completed by the Contractor;
 - 2. Contractor Workforce Commitment Form: To be completed by the Contractor and any Subcontractors with estimated labor hours on the Project;
 - 3. Workforce Hours – Project Overview Form: To be completed by the Contractor; and
 - 4. Total Company Workforce Report: To be completed by the Contractor and any Subcontractors upon request.
 - a. The Total Company Workforce Report can be found here: mndot.gov/civilrights/forms.html.
- The Contractor must select the regional Workforce Plan template that corresponds with Project location. The Workforce Plan templates can be found here: mndot.gov/civilrights/bid-results.html.
- C. Approval of the Workforce Plan by MnDOT’s Office of Civil Rights (OCR) is a condition of Contract award.
 - D. Approval is contingent upon the following:
 - 1. Completion and submission of the Workforce Plan within five (5) business days of the bid opening. The five-day (5) period begins the first full business day after the bid opening date;
 - 2. Completion and submission of all responses to specific Workforce Plan inquiries made by MnDOT’s Office of Civil Rights of the Contractor or any of its Subcontractors with estimated labor hours on the Project; and
 - 3. Ability of the Contractor or any of its Subcontractors with estimated labor hours on the Project to demonstrate that specific and significant actions to recruit, hire, and retain minorities and/or women are being taken if the applicable workforce participation goals will not be met.
 - E. Failure to complete and submit the Workforce Plan will result in the bid being rejected for failure to meet a condition precedent.

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 8

S.A.P. # 002-628-008

F. The execution of a collective bargaining agreement granting a union exclusive referral rights does not preclude compliance with the requirements of this section. As such, the inability of a union to provide candidates for employment relieves neither the Contractor nor any of its Subcontractors with estimated labor hours on the Project of the requirement to demonstrate that specific and significant actions to recruit, hire, and retain minorities and/or women are being taken if the applicable workforce participation goals will not be met.

POST-AWARD

A. The Contractor is directed to the following requirements concerning workforce data submission:

1. The Contractor and its Subcontractors must complete and submit workforce data weekly via the OCR Salesforce Portal (Salesforce). Failure to do so may result in the imposition of sanctions, including withholding of progress payments. Salesforce can be found here:

https://mnit.force.com/license/CommunitiesLoginPage?AgencyVar=DOT_WITI.

2. All Contractors working on federal-aid highway construction Contracts of at least \$10,000 during the last week of July must report their workforce by job category, gender, and ethnicity. MnDOT's Office of Civil Rights compiles this data into a single report for the FHWA. Information on how to submit the required data can be found here: mndot.gov/civilrights/federal-aid-highway-construction-contractors-annual-eeo-report.html.

Failure to meet these post-award reporting requirements may result in the imposition of Contract sanctions, including withholding of progress payments.

B. MnDOT's Office of Civil Rights determines whether Contractors on highway construction Projects are meeting state and federal laws, rules, and regulations relating to EEO by conducting annual compliance reviews. Accordingly, it reserves the right to audit the Contractor or any of its Subcontractors.

B. Information concerning specific reporting requirements for On-the-Job Training and Tribal Employment is accessible via reference to the Index for Division S.

FINAL CLEARANCE

Pursuant to MnDOT Standard Specifications for Construction, Section 1516.3, "Completion of the Work, note (7), the Contractor must notify the Engineer and MnDOT Office of Civil Rights when work is complete. MnDOT's Office of Civil Rights will issue a Final Clearance letter under MnDOT Standard Specifications for Construction, Section 1516.3, "Completion of the Work, note (7).

S-6 **RESPONSIBLE CONTRACTOR**

The Department cannot award a construction contract in excess of \$50,000 unless the Bidder is a "responsible contractor" as defined in Minnesota Statutes §16C.285, subdivision 3. A Bidder submitting a Proposal for this Project must verify that it meets the minimum criteria specified in that statute by submitting the "Responsible Contractor Verification and Certification of Compliance" form. A company owner or officer must sign the "Responsible Contractor Verification and Certification of Compliance" form under oath verifying compliance with each of the minimum criteria. THE COMPLETED FORMS MUST BE SUBMITTED WITH THE BID PROPOSAL.

A bidder must obtain a verification from each subcontractor it will have a direct contractual relationship with. At the Department's request, a bidder must submit signed subcontractor verifications. A contractor or subcontractor must obtain an annual verification from each motor carrier it has a direct contractual relationship with. A motor carrier must give immediate written notice if it no longer meets the minimum responsible contractor criteria. The requirement for subcontractor verifications does not apply to:

Design professionals licensed under Minnesota Statutes §326.06; and

A business or person that supplies materials, equipment, or supplies to a subcontractor on the Project, including performing delivering and unloading services in connection with the supply of materials,

equipment, and supplies. But, a business or person must submit a verification if it delivers mineral aggregate such as sand, gravel, or stone that will be incorporated into the Work by depositing the material substantially in place, directly or through spreaders, from the transporting vehicle.

A bidder or subcontractor who does not meet the minimum criteria specified in the statute, or who fails to verify compliance with the criteria, is not a “responsible contractor” and is ineligible to be awarded the Contract for this Project or to work on this Project. Submitting a false verification makes the bidder or subcontractor ineligible to be awarded a construction contract for this Project. Additionally, submitting a false statement may lead to contract termination. If only one bidder submits a bid, the Department may, but is not required to, award a contract even if that bidder does not meet the minimum criteria.

S-7 (1102) ABBREVIATIONS AND MEASUREMENT UNITS

RESTORED AND REVISED 06/30/23

SP2020-13.1

S-7.1 Add the following to Table 1102.1-1 in MnDOT 1102:

Acronym or Short Form	Full Name or Meaning
NPT	American National Standard Taper Pipe Thread
RMC	Rigid Metal Conduit
SMC	Schedule of Materials Control

S-7.2 Delete the following from Table 1102.1-1 in MnDOT 1102:

Acronym or Short Form	Full Name or Meaning
RSC	Rigid Steel Conduit

S-8 (1103) DEFINITIONS

RESTORED AND REVISED 06/30/23

SP2020-14

S-8.1 Delete and replace the definition for “Unit Day” in MnDOT 1103 with the following:

Unit Day
 12:00 a.m. to 11:59 p.m. (0000-2359) or any portion thereof.

S-8.2 Delete and replace the definition for “Working Day” in MnDOT 1103 with the following:

Working Day
 Any Calendar Day, exclusive of Saturdays, Sundays, and Holidays, on which weather and other conditions not under the control of the Contractor will permit construction operations to proceed with the normal working force engaged in performing critical work.

S-8.3 Add the following to MnDOT 1103:

Professional Land Surveyor
 The Contract may require that the Contractor provide a Professional Land Surveyor, currently licensed by the State of Minnesota, to perform or supervise certain activities and/or responsibilities related to the Contract.

S-9 (1203) ACCESS TO PROPOSAL PACKAGE

The provisions MnDOT 1203 are hereby deleted and replaced with the following:

The County will provide bidders with access to the Proposal package online through the Anoka County QuestCDN site (<https://www.questcdn.com>). The County may require a fee for bidders to purchase and download copies of the Proposal package.

S-10 (1206) PREPARATION AND DELIVERY OF PROPOSAL

The provisions of MnDOT 1206.1 are deleted and replaced with the following:

The Bidder shall utilize the County's electronic bidding process on QuestCDN (<https://www.questcdn.com>).

The Bidder shall submit its Proposal by the date and time for opening Proposals. The Bidder shall submit the Proposal Guaranty electronically with the County by the same date and time.

If a Bidder fails to provide a Unit Price for any Pay Item on the Bid Schedule, except for "Lump Sum" Pay Items, the Department will reject the Proposal.

If a Pay Item in the Proposal requires the Bidder to choose an alternate Pay Item, the Bidder shall indicate its choice in accordance with the Specifications for that Pay Item.

Electronic bidding shall be used in accordance with the requirements of the QuestCDN website (<https://www.questcdn.com>). In addition to submitting the bid electronically through QuestCDN, other items required for bid submittal include the following:

- (1) Proposal title sheet;
- (2) Form CM 32-34, "EEO Clause;"
- (3) Non-collusion affidavit; and
- (4) Any other forms included in the Proposal Package.

These items shall be submitted electronically through the QuestCDN website.

MnDOT 1206.2 is hereby deleted from the MnDOT Standard Specification

S-11 (1208) PROPOSAL GUARANTY

The provisions of MnDOT 1208(3) are deleted and replaced with the following:

- (3) In the form of a bond or certified check.

The provisions of MnDOT 1208 are supplemented with the following:

Submit a bid bond using one of the following means:

Obtain electronic bid bond for the Project using Surety2000, and submit it with your electronic bid using [questcdn.com](https://www.questcdn.com); or

Submit the original paper bid bond or certified check to the Anoka County Highway Department, 1440 Bunker Lake Blvd., Andover, MN 55304, Attention: Cindy Kriesel, SAP 002-628-008 Bid Bond. The bid bond or certified check must be received prior to the bid opening time and date.

S-12 (1210) REVISION OF PROPOSAL PACKAGE OR WITHDRAWAL OF PROPOSALS

The provisions of MnDOT 1210 are deleted and replaced with the following:

SPECIAL PROVISIONS - SP2020 BOOK**Last Revision by CO Special Provisions: December 29, 2023****Created July 31, 2021****Page 12****S.A.P. # 002-628-008**

The Bidder may revise its electronic Proposal an unlimited number of times and may withdraw its electronic Proposal before the date and time for opening Proposals.

The County reserves the right to revise the Proposal Package at any time before the date and time for opening Proposals. The County will issue a numbered and dated Addendum for any revision of the Proposal Package. The County will electronically post each Addendum on QuestCDN as announced in a notification to each Bidder on the County's Plan Holders list.

If revisions made by an Addendum require change to Proposals or reconsideration by the Bidder, the County may postpone opening Proposals. If the County postpones opening Proposals, the County will specify the new date and time for opening Proposals in the Addendum.

The Bidder shall acknowledge receipt of each Addendum in the Bidder's electronic proposal. The downloading of Addenda from QuestCDN is considered acknowledgement.

S-13 (1507) UTILITY PROPERTY AND SERVICE**REVISED 01/27/23**SP2020-27

S-13.1 Delete and replace the second to the last paragraph of MnDOT 1507.1 with the following:

All utilities related to this Project are classified as "Level D," unless the Plans specifically state otherwise. This utility quality level was determined according to the guidelines of CI/ASCE 38-22, entitled to "Standard Guideline for Investigating and Documenting Existing Utilities."

S-13.2 Add the following to MnDOT 1507.2:

(3) The Contractor shall acquire a Positive Response confirmation from the Department for all proposed excavations when the Gopher State One Call has indicated that proposed excavations may affect the Department's utilities. The Contractor may call the Department's Electrical Services Section (ESS) Dispatch Locating to confirm the status of Department-owned Utility infrastructure. Contractor can contact the Department's Electrical Services Section (ESS) Dispatch Locating at (651) 366 -5750 or (651) 366-5751. The Contractor shall be responsible for all damage to Department-owned Utility infrastructure if the Contractor did not acquire a Positive Response confirmation from the Department.

S-14 (1508) CONSTRUCTION STAKES, LINES, AND GRADES**REVISED 06/30/22**SP2020-28

S-14.1 Delete and replace MnDOT 1508 with the following:

The Engineer will set construction stakes to establish lines, slopes, elevations, and continuous Profile Grade for grading, base, and pavement construction to establish the field control for the Project. The Engineer will also set construction stakes to establish location, line, and grade controls for drainage facilities, traffic control and protection devices, and other accessory Structures and appurtenances.

The Contractor shall submit a priority list for staking to the Engineer at the weekly meeting and inform the Engineer a minimum of 36 hours before any deviation from that list or the need for any additional staking.

The Contractor shall preserve all stakes and marks. If the Contractor carelessly or willfully destroys or disturbs any of the field control stakes or marks, the Engineer will deduct the Department's cost for replacing the damaged stakes or marks from the payment for the Work.

A Bridge Staking:

The Engineer will provide offset points for the working lines and the Contractor shall re-establish all working points needed during construction from these offset points.

The Contractor shall lay out Bridge footing corners and wing wall corners. The Engineer will lay out Bridge footing corners and wing wall corners only if x,y coordinates are provided in the Plans.

The Engineer will furnish two benchmarks in the vicinity of this Substructure. The Contractor shall establish required grade points from the benchmark.

The Contractor shall provide Bridge Seat Elevations.

The Engineer will provide beam stool heights as deemed necessary for the performance of the Work.

From the field control, the Contractor shall establish other necessary controls, detail dimensions, and measurements required for proper layout and performance of the Work. The Contractor is fully responsible for all measurements made from the stakes and marks established by the Engineer.

B Grading, drainage and Structures:

The Contractor is fully responsible for all measurements made from any offset construction stake or measurements made from any stakes and marks established by the Engineer.

The cost of replacing stakes and marks will be based on the actual number of hours of field and office Work in accordance with the following wage and Equipment rates:

<u>Classification</u>	<u>Hourly Rates</u>
Registered Engineer or Land Surveyor	\$150 per hour
3-person crew & equipment	\$250 per hour
2-person crew & equipment	\$195 per hour
1-person crew & equipment	\$110 per hour

The Department is responsible for the accuracy of lines, slopes, grades, and other engineering Work performed by the Department's personnel as specified in this section. The Contractor shall not knowingly take advantage of Errors or Omissions and shall report any discovered Errors or Omissions to the Engineer immediately upon discovery.

S-15 (1602) NATURAL MATERIAL SOURCES

SP2020-30

S-15.1 Add the following to MnDOT 1602:

The expansion of any existing natural material sources, or the creation of new natural material sources, is subject to the requirements of the Farmland Protection Act of 1981 (FPPA or the ACT). Contractor is responsible for coordination to comply with FPPA. Contact the Natural Resources Conservation Service (NRCS) office for the County in which the source is located for further information.

S-16 (1606) STORAGE OF MATERIALS

REVISED 04/14/23

SP2020-32

S-16.1 Add the following to MnDOT 1606:

If the Contractor elects to crush excavated Materials within the Project Limits, the quantity of crushed Material will be limited to only the quantity required for this Project. Unless approved in writing by the Engineer, the Contractor must not crush Materials other than those found within the Project Limits or remove crushed Material from the Project Limits.

S-17 (1701) LAWS TO BE OBSERVED

S-17.1 Add the following to MnDOT 1701:

1701.6 **EQUAL PAY**

The local agency cannot execute a contract for goods or services or an agreement for goods or services in excess of \$1,000,000 with a business that has 40 or more full-time employees in this state or a state where the business has its primary place of business on a single day during the prior 12 months, unless the business has an equal pay certificate or it has certified in writing that it is exempt. Bidders may find more information on the Equal Pay Certificate Requirement at Minnesota Statutes Section 363A.44 or at this website:

<https://mn.gov/mdhr/certificates/equalpay/>

1701.7 **Compliance with Tax Law Requirements**

The Department cannot make final payment to the Contractor until the Contractor demonstrates that it and all its Subcontractors have complied with the Income Tax withholding requirements of Minnesota Statutes, section 290.92 and section 270C.66 for wages paid for Work performed under the Contract. To establish compliance, the Contractor must submit a "Contractor Affidavit" either online or in paper form (IC134) to the Minnesota Department of Revenue. The Contractor will receive a written certification of compliance when the Department of Revenue determines that all withholding tax returns have been filed and all withholding taxes attributable to the Work performed on the Contract have been paid. The Contractor must then provide this written certification to the Department to receive final payment.

Every Subcontractor working on the Project must submit an approved "Contractor Affidavit" from the Minnesota Department of Revenue to the Contractor before the Contractor can file its own Contractor Affidavit. The Contractor is advised to obtain the certification from each Subcontractor as soon as the Subcontractor completes Work on the Project. Experience has shown that waiting until the Project is complete to obtain the forms from all Subcontractors is likely to result in significant additional Work for the Contractor as it will be difficult or impossible to collect all forms.

The Department of Revenue, in association with the Department of Employment and Economic Development, offers a free seminar to help Contractors understand tax law requirements. The Department strongly urges the Contractor and all Subcontractors to attend the "[Employment Taxes & Employer Responsibilities Seminar](#)" or similarly offered classes. You can find a schedule and more information on the [Department of Revenue](#) website (www.revenue.state.mn.us).

Complying with this requirement is considered part of the Work under this Contract. The Department will enforce this requirement equally with all other Contract requirements. The Contractor delay in complying with this requirement will cause the Department to delay final payment and Contract Acceptance. The Department may also report non-compliance to the Department of Revenue, which may result in enforcement action by the Department of Revenue.

Contractor Affidavit requirements and Form IC134 can be found on the [Department of Revenue](http://www.revenue.state.mn.us) website (www.revenue.state.mn.us).

1701.8 Use of Equipment from Certain Telecommunications Supplier Prohibited

By signing this Contract, Contractor certifies that consistent with section 889 of the John McCain National Defense Authorization Act for fiscal year 2019, Public Law 115-233 (Aug. 13, 2018) the Contractor may not use funding covered by this Contract to procure or obtain, or extend, renew, or enter into any Contract to procure or obtain, any Equipment, system, or service that uses "covered telecommunications Equipment or services" (as that term is defined in section 889 of the Act) as a substantial or essential component of any system, or as critical technology as part of any system. The contractor must include this certification as a flow-down clause in any subcontract related to this Contract.

S-18 (1701) LAWS TO BE OBSERVED (WETLANDS)

REVISED 06/30/22

SP2020-35

S-18.1 Add the following to MnDOT 1701:

If the Contractor operations involve the excavation and/or disposal of material off Department Right-of-way, the Contractor is advised of the following:

MN Statutes Sections 103G.2212 and 103G.241 stipulate that an agent or employee of another may not:

- 1) drain, excavate, or fill a wetland, wholly or partially; or
- 2) construct, reconstruct, remove, or make any change in any reservoir, dam, or the course, current, or cross-section of any public water.

Unless a signed statement from the property owner is obtained stating that any permit or Wetland Replacement Plan required for the Work is in place, or that a permit or replacement plan is not required; and this statement is mailed to the appropriate office with jurisdiction over the wetland or public water prior to initiating the Work.

The "Landowner Statement and Contractor Responsibility For Work in Wetlands or Public Waters" can be found at <http://www.bwsr.state.mn.us/wca-forms-and-templates>. The Contractor shall provide the Engineer with a copy of the completed "Landowner Statement and Contractor Responsibility For Work in Wetlands or Public Waters" for the excavation and/or disposal site prior to initiating the Work.

S-19 (1701) LAWS TO BE OBSERVED (BRIDGE)

REVISED 10/14/22

SP2020-37

S-19.1 Add the following to MnDOT 1701:

A The Contractor shall only use Subcontractors under the Prequalification Program for the following Work: asbestos abatement and regulated waste removal oversight, asbestos removal, regulated waste removal, and regulated waste disposal and recycling. The manual is available on the following website: <http://www.dot.state.mn.us/environment/buildingbridge/index.html>.

The Contractor shall use only MPCA permitted Combined Solid Waste Disposal Facilities to dispose of all solid waste including demolition debris. Do NOT dispose of demolition debris in a permit-by-rule landfill.

- B The Contractor shall:
- B.1 Comply with applicable Federal and State regulations in performing all Work.
- B.2 Provide the MPCA and the Engineer written notice of intent to demolish or move a Structure - see form "Notification of Intent to Perform a Bridge Demolition for MnDOT Operations" at <http://www.dot.state.mn.us/environment/buildingbridge/index.html>. Provide such notice to the MPCA and the Engineer at least 10 Working Days before any move or demolition.
- B.3 In addition to (1) and (2), if the Bridge contains any asbestos, the Contractor shall:
- B.3.a Use a Department Prequalified asbestos abatement Subcontractor.
- B.3.b If there is over 160 square feet, 260 linear feet, or 35 cubic feet of asbestos on the premises, submit "Notification of Asbestos Related Work", to the MPCA and the Minnesota Department of Health (MDH). Submit notice at least 10 Working Days before commencing abatement activities. The Contractor shall submit a copy of the completed notification to the Engineer at the same time.
- B.3.c Submit all required documentation to the MPCA and the MDH, and copy the Engineer on all submittals. Information on MPCA requirements can be found at: http://www.pca.state.mn.us/programs/asbestos_p.html. Information on MDH requirements can be found at: <https://www.health.state.mn.us/communities/environment/asbestos/>
- B.3.d The Contractor shall provide the Engineer with all Asbestos Containing Material Transportation shipping papers/manifests. Shipping paper guidance can be found at: <http://www.dot.state.mn.us/environment/buildingbridge/disposal.html>.
- B.3.e Dispose of all asbestos containing waste in a MPCA-permitted mixed municipal solid waste or Industrial landfill or a landfill permitted to accept asbestos-containing waste as listed under Landfills/Regulated Waste at: <http://www.dot.state.mn.us/environment/buildingbridge/index.html> under Approved Contractors. Do not dispose of asbestos-containing waste in demolition debris landfills.
- B.3.f Ensure that the oversight Contractor provides the Engineer with a final report meeting the requirements contained in MnDOT's manual "Asbestos and Regulated Waste Manual for Structure Demolition or Relocations for Construction Projects" available on the following website: <http://www.dot.state.mn.us/environment/buildingbridge/index.html>.
- B.3.g If the Contractor encounters additional asbestos Materials or regulated wastes that is not noted in the assessment report summary, the Contractor shall notify the Engineer who shall suspend Work. Abatement of the additional asbestos Materials or regulated wastes will be paid for as Extra Work in accordance with 1402.5.
- B.4 Comply with the requirements specified in MnDOT's manual "Asbestos and Regulated Waste Manual for Structure Demolition or Relocations for Construction Projects" available on the following website: <http://www.dot.state.mn.us/environment/buildingbridge/index.html>.

C The Contractor shall comply with all applicable Department policies, and all applicable laws, rules, and regulations governing removing and recycling/disposing of any regulated wastes including:

- (1) Treated Wood
- (2) Lead Paint
- (3) Lead Plates
- (4) Polychlorinated biphenols (PCB's)
- (5) Mercury

When shipping any of these wastes, the Contractor must comply with USDOT packaging and transportation requirements. The Contractor shall provide the Engineer with all shipping papers or manifests.

The Contractor shall provide the Engineer with copies of disposal or recycling records.

D Failure to comply with the notification provisions in this section will be deemed a material breach of Contract. If a regulatory agency imposes monetary sanctions on the Department that are based, in whole or in part, upon the acts or omissions of the Contractor, the Contractor agrees to INDEMNIFY the Department and to hold the Department harmless for the same, except to the extent that any sanctions were caused by the Department's own negligence.

S-20 (1701) LAWS TO BE OBSERVED (CULTURAL RESOURCES – FEDERALLY AND STATE FUNDED)

REVISED 04/14/23

SP2020-38

S-20.1 Add the following to MnDOT 1701:

A For any Project that the Department funds or conducts, or that is located in Department Right-of-way, including owned or leased Natural Materials Resources, the following terms will apply:

A.1 The Department is responsible for obtaining a Cultural Resources Unit (CRU) findings letter.

A.2 Contractor will notify the Engineer if the Contractor intends to use any material from a proposed excavation area on land controlled by the Department. The Engineer must request a review from the Department's CRU before allowing a Contractor to use any material from a proposed excavation area on any land controlled by the Department. The review may take 60 Calendar Days after receipt of request, including up to 45 days for tribal consultation when necessary. If the Department's CRU determines that a survey is needed, the review period may be even longer. Contractor is responsible for ensuring that such reviews do not affect the timely completion of the Project, and for any delays due to the length of the review. Contractor may not base a claim for damages due to delay of Contract on the length of the review.

B If the Contractor selects the excavation and disposal of material from locations other than the Department's Right-of-way, the following terms will apply:

B.1 A CRU findings letter is not necessary.

B.2 Contractor must comply with Minnesota Statutes § 307.08, Minnesota Private Cemeteries Act, if applicable.

C If any human remains are encountered within the Project limits, the Contractor shall immediately stop Work in the vicinity, notify the Engineer, and request suspension of Work near the discovery area, in accordance with 1803.3.

S-21 (1702) PERMITS

The holder of this Contract shall be advised that the following permits will be required for this project. Specific permit information is as follows:

General Conditions:

Please refer to the Plans for specific details and requirements for temporary and permanent erosion control practices and/or requirements for this project.

MnDNR Public Waters Permit

Anoka County Permit for Work within the Right-of-Way

The Contractor is required to obtain a permit for work within the Anoka County Right-of-Way. The Contractor is responsible for all fees and requirements associated with this permit. The Contractor must be registered with the County Highway Department to apply for a permit. The Contractor shall be aware that the County Highway Department may apply special conditions to the approved permit.

S-22 (1706) EMPLOYEE HEALTH AND WELFARE

RESTORED 06/30/23

SP2020-42

- S-22.1 Add the following to MnDOT 1706:
 - A. The Contractor must not use motor vehicle Equipment that has an obstructed rear view unless either of the following is ensured:
 - (1) The vehicle has a reverse alarm that is audible above the surrounding noise level
 - (2) An observer signals to the operator that it is safe to reverse
 - B. The Department may assess a Monetary Deduction of \$500 per incident for a violation of safety standards that could result in death or serious injury.
 - C. The areas of special concern include excavation stability protection, fall protection, protection from overhead hazards, vehicle backup protection, confined space safety, blasting operations, and personal safety devices.
 - D. The Contractor cannot avoid complying with safety standards by paying the deduction.

S-23 (1707) PUBLIC CONVENIENCE AND SAFETY

RESTORED 06/30/23

SP2020-43

- S-23.1 Add the following to MnDOT 1707:

The Contractor shall ensure that employees and Subcontractors do not display items such as, but not limited to, flags, banners, and symbols on the Project Site, that may disrupt the proper prosecution of the Work, impede public safety, or create a distraction for the traveling public.

S-24 (1712) PROTECTION AND RESTORATION OF PROPERTY

S-24.1 Add the following to MnDOT 1712:

Construction activities shall only take place within the properties identified and permitted by the contract. Contractor shall not conduct activities outside of right-of-way, permanent easements, or temporary easements that have been acquired for the construction of this project. If the Contractor requires additional space to conduct construction activities, the Contractor will be responsible for procuring those rights to additional land and access points. Contractor is solely responsible for compliance with all County/MnDOT specifications in carrying out the means, methods, sequence, and procedures of construction activities.

S-25 (1714) RESPONSIBILITY FOR DAMAGE CLAIMS

The provisions of 1714 are supplemented as follows:

If the Contractor trespasses on or causes damage or disturbance to any property that is outside of the right-of-way, easements, or permitted construction areas, the Contractor shall assume full responsibility for damage/disturbance to such area, and to the owner or occupant thereof. In the event of property damage outside of the permitted construction areas, the Contractor shall restore to original condition all property not designated for alteration by the Contract at their own expense, and shall indemnify, defend, and hold **Anoka County and the City of Saint Francis**, against all present or future claims, costs, losses, and damages caused by, arising out of, or resulting from the trespass or performance of the work outside of the permitted areas.

S-26 (1801) SUBLETTING OF CONTRACT

REVISED 10/14/22

SP2020-50 MODIFIED

S-26.1 Delete and replace the second sentence of the first paragraph of MnDOT 1801 with the following:

The Contractor may, with the Engineer’s consent, sublet a portion of the Contract as long as the Contractor self-performs Work amounting to at least 30 percent of the total original Contract Amount.

S-26.2 Delete the second paragraph of MnDOT 1801.

The provisions of MnDOT 1801 are modified as follows:

S-26.3 For Projects in excess of \$50,000, the Contractor may sublet work only to subcontractors that meet the definition of “responsible contractor” in Minnesota Statutes §16C.285, subdivision 3. The Contractor shall obtain verifications of compliance with §16C.285 from subcontractors using a form provided by the Department. The Contractor must provide such verifications to the Department upon the Department’s request.

S-27 (1802) QUALIFICATIONS OF WORKERS

NEW 06/30/23

SP2020-50.2

S-27.1 Delete and Replace MnDOT 1802 with the following:

The Contractor shall provide workers with sufficient skill and experience to perform the Work assigned to them. Upon request by the Engineer, the Contractor shall submit evidence of qualification for any person engaged in special Work requiring professional training or certification. If any Subcontractor employed

by the Contractor or any person employed by the Contractor or by a Subcontractor fails to perform assigned Work in a proper and skillful manner, or becomes intemperate, disorderly, abusive, or harassing, or shows signs of impairment from drug or alcohol use, the Contractor shall remove that Subcontractor or person from the Project as directed in writing by the Engineer. The Contractor shall not employ that Subcontractor or person again on any portion of the Project unless approved in writing by the Engineer. If the Contractor fails to remove a Subcontractor or person as directed by the Engineer, or fails to provide suitable and sufficient personnel for the proper prosecution of the Work, the Engineer may suspend the Work until the Contractor complies with the direction from the Engineer.

S-28 (1803) PROGRESS SCHEDULES (BAR CHART/CPM SCHEDULE)

REVISED 01/27/23

SP2020-51

S-28.1 Delete and replace MnDOT 1803 with the attached (1803) Project Schedules.

S-28.2 Modify the attached (1803) Project Schedules with the following:

A This Contract allows for the use of a “Bar Chart Schedule” as the Project Schedule for the Project. The Contractor shall meet the requirements of 1803.1, “Bar Chart”.

B Delete and replace 1803.1.B.1, “Weather Contingency,” with the following:

The Contractor shall allow for normal weather delays when developing the Bar Chart Schedule. The Department will extend the Contract Time, except as limited by 1806.4, “Extension of Contract Time Due to Weather on Calendar Day and Completion Date Contracts,” for delays in excess of the anticipated Working days lost to inclement weather as specified in the table below. The days in the table below are cumulative and shall be prorated when Contract Time starts or ends mid-month. For example, if Contract Time starts May 1st and there are days lost to weather in May or June, then the Contract must lose 7 days to weather (4 days from May and 3 days from June) in addition to the anticipated days in July before a time extension would be considered due to weather days lost in July.

Table 1803.1-1
Weather Contingency By Time Period

Time Period	Anticipated Working Days Lost Due To Weather
January	all
February	all
March	all
April 1-15	all
April 16-30	4
May	4
June	3
July	3
August	3
September	3
October	4
November 1-14	4
November 15-30	all
December	all

S-29 (1806) DETERMINATION AND EXTENSION OF CONTRACT TIME

REVISED 01/27/23

SP2020-54-MODIFIED

S-29.1 Add the following to MnDOT 1806:

1806.5 Contract Time

- A The Contractor must not perform Work that will restrict or interfere with traffic between 12:00 noon on the day before and 9:00 A.M. on the day after any consecutive combination of a Saturday, Sunday, and Holiday. The Contractor may request exceptions to this requirement. Exceptions must be approved in writing by the Engineer.
- B This Contract **requires a starting date after September 30, 2024**. The Contractor may not start construction operations prior to Contract Approval. The Contractor shall determine their construction starting date between the above listed dates. The Contractor must notify the Engineer, in writing, at least two weeks prior to the selected date.
- C The Contractor must complete all Work to meet the requirements of 1516.2, "Project Acceptance," under this Contract before **November 27, 2024**.
- D The Contractor must complete all Work to meet the requirements of 1516.3, "Completion of the Work," under this Contract within 90 Calendar Days of receipt of the Semi-Final Estimate in accordance with 1908.2, "Semi-Final Estimate Following Project Acceptance."

S-30 **(1806) DETERMINATION AND EXTENSION OF CONTRACT TIME (BRIDGES OVER WATER)**

NEW 06/30/22
SP2020-54.1

- S-30.1 Add the following to the second paragraph of MnDOT 1806.2A:
 - (10) Delays due to flooding within the box culvert footprint due to Seelye Brook water levels or runoff reaching an elevation of 900.00 or higher and until the water has receded to 900.00 elevation.

- S-30.2 Add the following to the second paragraph of MnDOT 1806.2C:
 - (6) Delays due to flooding within the box culvert footprint due to Seelye Brook water levels or runoff reaching an elevation equal to or below 900.00.

S-31 **(1807) FAILURE TO COMPLETE THE WORK ON TIME**

RESTORED 06/30/23
SP2020-56.1

- S-31.1 Delete and replace the first paragraph of MnDOT 1807.1 with the following:

The Department will deduct liquidated damages from money due the Contractor for each Calendar Day that the Work remains incomplete after expiration of the Contract Time, according to the completion requirements of 1516.2, "Project Acceptance". The Engineer will deduct liquidated damages based on the original Contract Amount and Table 1807.1-1.

S-32 **(1807) FAILURE TO COMPLETE THE WORK ON TIME (MONETARY DEDUCTIONS)**

REVISED 09/29/23
SP2020-57

- S-32.1 Add the following to MnDOT 1807:

- A The Department will assess the Contractor a Monetary Deduction in an amount equal to \$200 for each Calendar Day that any Work specified under 1516.3, "Completion of the Work," are not met after the expiration of the 90 day period of the Semi-Final Estimate requirements.
- B For informational purposes only, Bidders are advised that in addition to the requirements of 1807, other Sections of these Special Provisions contain requirements for assessment of Monetary Deductions to this Contract:

Table SP1807-1
Special Provision Sections with Monetary Deduction Requirements

Division	Section Title
S	
S	
S	(1706) EMPLOYEE HEALTH AND WELFARE
S	
S	
S	
S	
S	(2331) BITUMINOUS PAVEMENT CRACKS TREATMENT
S	(2360) PLANT MIXED ASPHALT PAVEMENT - THICKNESS PAYMENT SCHEDULE
S	
S	(2563) TRAFFIC CONTROL
S	(2582) WET RETROREFLECTOMETER MEASUREMENTS
SB	(1502) PLANS AND WORKING DRAWINGS
SB	(1807) FAILURE TO COMPLETE THE WORK ON TIME

- C The liquidated damages set forth in MnDOT 1807 and any Monetary Deductions as set forth above may apply equally, separately, and may be assessed concurrently.

S-33 (1901) MEASUREMENT OF QUANTITIES

RESTORED 06/30/23

SP2020-58.1

- S-33.1 Delete and replace the first paragraph of MnDOT 1901.8 with the following:

For measuring or proportioning Material by mass, the Contractor shall provide certified weights or weigh Material on calibrated, approved scales. The Contractor shall give the Engineer a copy of the inspection certificate.

- S-33.2 Add the following to MnDOT 1901.8C:

The Contractor shall not provide a ticket to truck drivers if the weight of the load is in excess of the legal load limits in place.

S-33.3 Add the following to MnDOT 1901.8:

D. Computerized Loader Bucket Scales

The Contractor may use computerized Loader Bucket Scales to weigh materials when the quantity of material included in the bid item list is 5000 tons or less.

The Contractor shall equip loader bucket scales with an onboard computer that produces weigh tickets.

The Contractor shall load trucks on a level loading area and with the loader scale in dynamic mode and operate the loader scale in accordance with the manufacturer's guidelines.

The computerized loader bucket scale must be accurate to within 1.0 percent of the true weight of the applied load throughout the range of use.

D.1 Computerized Loader Bucket Scales – Comparison Test

Before the first use of the loader bucket scale on the project and any time the scale is recertified, the Contractor shall perform a comparison test using one of the following methods:

(a) Independent Scale Method.

After placing the load in a truck, weigh the loaded truck on a certified scale owned and operated by an entity other than the Contractor. Provide the tare weight of the truck along with the comparison weigh ticket.

(b) Certified Weighted Object Method.

Weigh an object on the project scale and compare its certified weight to the loader bucket scale readout. Use an object that is free of mud and dirt and has a certified weight of at least 60 percent of the capacity of the loader bucket.

Weld a plate onto the object showing its certified weight.

Provide an affidavit affirming the weight of the object, as measured on a certified scale.

Provide a new affidavit when requested by the Engineer or if changes are made to the object that will affect the certified weight.

D.2 Computerized Loader Bucket Scales – Random Comparison Tests

If a comparison test reveals that the scale is out of tolerance, repair and recertify the scale.

At any time, the Engineer may require the scale to be checked for accuracy utilizing any test method in 1908.D.1, "Computerized Loader Bucket Scales – Comparison Test".

The Engineer may prohibit the use of loader bucket scales if two consecutive tests fail.

D.3 Computerized Loader Bucket Scales – Documentation

The Contractor shall generate weigh tickets using the onboard computer and loader bucket scale printer and provide tickets to the truck driver. The Contractor shall provide daily haul summaries by computer-generated spreadsheet as provided by the Engineer. The Contractor shall provide the fully completed spreadsheet to the Engineer daily.

S-34 (1902) SCOPE OF PAYMENT

RESTORED 06/30/23

SP2020-59

S-34.1 Delete and replace MnDOT 1902 with the following:

The Contractor will receive compensation provided for in the Contract as full payment for providing Materials and performing Work in accordance with the Contract requirements. This includes compensation for all risk, loss, damage, and expense incurred by the Contractor for performing the Work required by the Contract. Payment is subject to 1720, "No Waiver of Legal Rights." The Department prohibits the Contractor from accepting payment from any other party for performing the Work required by the Contract, including any Incentive or bonus payment. The Department does not prohibit the following payments from third parties:

- (1) Payments from sureties
- (2) Quantity-based rebates or credits from suppliers
- (3) Payments under another contract for excess material removed under this Contract

S-35 (1906) PARTIAL PAYMENTS

Partial payments will be made in accordance with the provisions of 1906 and the following:

S-35.1 Partial payments in excess of ninety-five percent (95%) of the value of the completed work will not be made under this contract.

S-35.2 Payment for materials on hand will not be made unless the material has been delivered to the project site and secured to the satisfaction of the Engineer.

S-35.3 Payment will be made as soon as possible after a pay voucher is prepared, but in no case more than 30 days from that date.

S-36 (1910) COST ESCALATION

REVISED 06/30/22

SP2020-61

S-36.1 MnDOT 1910 is hereby supplemented with the attached Fuel Escalation Clause

S-37 (2101) CLEARING AND GRUBBING

NEW 06/30/23

SP2020-79

S-37.1 Delete and replace the first paragraph of MnDOT 2101.4B with the following:

The Engineer will make all measurements horizontally to points 10 feet outside the trunks of qualifying trees or stumps on the perimeter of the area being measured. The Engineer will measure separate areas less than 0.05 acre as 0.05 acre.

S-38 (2104) REMOVING PAVEMENT AND MISCELLANEOUS STRUCTURES (REMOVE AND DISPOSE OF TREATED WOOD)

REVISED 06/30/22

SP2020-85

S-38.1 Add the following to MnDOT 2104.3:

F Remove and dispose of treated wood

Reuse the treated wood for its original intended purpose unless the condition of the treated wood is unsuitable for reuse. Replace treated wood damaged during the removal process at no expense to MnDOT.

If the in-place treated wood cannot be reused and the material must be disposed of:

- (1) Furnish a completed Transfer of Ownership form to the Engineer prior to removing treated wood from the Project limits. The Transfer of Ownership form is available at the following website:
<http://www.dot.state.mn.us/environment/buildingbridge/index.html>.
- (2) Dispose of all waste treated wood in a MPCA permitted Minnesota solid waste or industrial landfill or landfills listed under Landfills/Regulated Waste at
<http://www.dot.state.mn.us/environment/buildingbridge/index.html>. Do not dispose of waste treated wood in a demolition landfill.
- (3) Within 30 Calendar days after the treated wood is transported to the landfill, provide the Engineer with shipping manifests, Scale tickets and invoices. Shipping manifests shall include the following information: specify treated wood as the type of waste, quantity of wood, date of hauling and disposal, and location of disposal.

S-38.2 Add the following to MnDOT 2104.5:

The Department will pay for the removal and disposal of treated wood as Extra Work in accordance with 1402.5.

S-39 (2106) EXCAVATION AND EMBANKMENT (COMPACTED VOLUME METHOD)

REVISED 10/14/22

SP2020-96.1

S-39.1 Add the following to the beginning of MnDOT 2106.5:

Embankment, such as required for additional backfilling a muck excavation, may be subject to the provisions of 1402, "Contract Revisions."

S-39.2 Delete and replace the last sentence of MnDOT 2106.5A with:

The Department will make monetary price adjustments for Excavation - Muck in accordance with Table 2106.5-1.

S-39.3 Delete and replace MnDOT Table 2106.5-1 in MnDOT 2106.5A with the following:

Table 2106.5-1
Monetary Price Adjustments for Excavation – Muck

Areas Where Muck is Shown in the Plan

Muck Location	Compensation
For the muck located at a depth between 0 to 5 feet below the Plan Depth	Muck Excavation Unit Price
For the muck located at a depth between 5 to 15 feet below the Plan Depth	Muck Excavation Unit Price plus \$2.00 per cubic yard
For the muck located at a depth greater than 15 feet below the Plan Depth	Negotiated Price

Additional Areas Where Muck is not Shown in the Plan

Muck Location	Compensation
For the muck located between 0 to 10 feet below the Subgrade Excavation	Muck Excavation Unit Price
For the muck located at a depth greater than 10 feet to 20 feet below the Subgrade Excavation	Muck Excavation Unit Price plus \$2.00 per cubic yard
For muck located at a depth greater than 20 feet below Subgrade Excavation	Negotiated Price

In addition to the monetary price adjustments listed above, compensation for additional muck excavation may be subject to the provisions of MnDOT 1402, "Contract Revisions" if additional shoring, dewatering, requisition of additional disposal site(s) because of increased volume of muck, or additional hauling beyond original disposal site(s), or other related activities are required.

S-40 (2108) GEOSYNTHETIC CONSTRUCTION MATERIALS

RESTORED 06/30/23

SP2020-106

S-40.1 Delete and replace note (5) in MnDOT 2108.1 with the following:

(5) Provide confinement of granular materials.

S-40.2 Add the following to MnDOT 2108.1:

(6) Provide a geotextile interlayer to concrete pavement.

S-40.3 Delete and replace MnDOT 2108.3B with the following:

B. Geotextile

If multiple pieces of geotextile are required, overlap geotextiles a minimum of 36-inches. In lieu of overlapping, the Contractor may sew the geotextile provided there is a passing Departmental Quality Assurance sewing test prior to installation.

Use a "double spool" machine capable of sewing a Federal Type 401 locking stitch per *ASTM D6193-16, Standard Practice for Stitches and Seams*. Sew a flat, "J," or butterfly seam per *ASTM D6193-16, Standard Practice for Stitches and Seams*, using thread with a minimum strength of 25 pounds, with 1-2 rows of stitching and 5-7 stitches per inch. Meet the required seam strength for the specified geotextile type. Install the geotextile, using the same geotextile, seamstress, thread, and sewing machine as used for the test.

The Contractor may use adhesives listed on the “Geosynthetic products/Adhesive seams” APL in lieu of overlapping or sewing for Types 3, 4, and 5 geotextiles. Apply adhesive per the Adhesive Seams Guidelines found on the “Geosynthetic products/Adhesive seams” APL.

S-40.4 Add the following to MnDOT 2108.3:

D. Concrete Pavement Geotextile Interlayer

When a geotextile interlayer for concrete pavement is required, install Type 8 geotextile in accordance with 2301.3F, “Placement on Type 8 Non-woven Geotextile Interlayer.”

S-40.5 Delete and replace MnDOT 2108.5 with the following:

The Contract Unit Price for Geosynthetic Construction Materials is compensation in full for Equipment, Materials, and labor required to complete the Work and includes the cost of providing, placing, overlapping, or sewing or gluing, testing, anchoring, and any needed repairs.

The Department will pay for Geosynthetic Construction Material based on the following schedule:

Item No.	Item	Unit
2108.504	Geotextile Fabric Type *	square yard
2108.504	Geogrid Type 	square yard

Notes:

* Specify Type: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, or 13.

|| Specify Type: 1 or 2

S-41 (2357) BITUMINOUS TACK COAT

REVISED 01/27/23

SP2020-130.1

S-41.1 Delete and replace the Emulsified Asphalt section of MnDOT 2357.2A with the following:
Emulsified Asphalt

AASHTO M 208, “Standard Specification for Cationic Emulsified Asphalt,” dilution of the emulsion is only allowed by the supplier. No field dilution is allowed. The storage tank for diluted emulsion must have a recirculation system or agitator that will prevent settlement or separation of the Material.

Table 2357.2-1
Residual Asphalt Content

Emulsion	Minimum Residual Asphalt Content		
	Undiluted	Diluted (7:3), D30	Diluted (8.5:1.5), D15
CSS-1 or CSS-1h	57 percent	40 percent	N/A
CQS-1h	N/A	N/A	53 percent

S-41.2 Delete and replace Table 2357.3-1 in MnDOT 2357.3D with the following:

Table 2357.3-1
Tack Coat Application Rates

Material Type	Application Rates – gallon/square yard			
	CSS-1 or CSS-1h	CSS-1 or CSS-1h	CQS-1h	MC
Surface Type	Undiluted Emulsion	Diluted* Emulsion (7:3), D30	Diluted* Emulsion (8.5:1.5), D15	Cutback
New Asphalt	0.04 to 0.06	0.06 to 0.09	0.05 to 0.07	0.05 to 0.07
Old Asphalt† and PCC	0.05 to 0.09	0.07 to 0.135	0.08 to 0.10	0.09 to 0.11
Milled Asphalt and Milled PCC	0.06 to 0.09	0.09 to 0.135	0.09 to 0.11	0.09 to 0.11
Notes:				
* As provided by the asphalt emulsion supplier (see 2357.2A, “Bituminous Material”)				
Use when approved by the Engineer				
† Older than 1 year				

S-41.3 Delete and replace MnDOT 2357.5A with the following:

A Monetary Adjustments

The Department must apply Incentives and Disincentives and may apply monetary deductions for Bituminous Tack Coat. The amounts of these adjustments are deemed reasonable.

The Engineer in conjunction with the Bituminous Engineer may deduct up to 5 percent of the mixture Unit Price for failures related to 3151, “Bituminous Material”.

S-42 (2360) PLANT MIXED ASPHALT PAVEMENT

REVISED 10/14/22

SP2020-131.1

S-42.1 Delete and replace Table 2360.5-6 of MnDOT 2360.5B.13 with the following:

Table 2360.5-6
Incentive and Disincentive for Longitudinal Joint Density, 4% Design Void*

Longitudinal Joint (Confined Edge) Density, percent	Pay Factor B (Confined Edge)		Longitudinal Joint (Unsupported Edge) Density, percent	Pay Factor C (Unsupported Edge)	
	Traffic Level 2 & 3	Traffic Level 4 & 5		Traffic Level 2 & 3	Traffic Level 4 & 5
	≥ 92.6	1.02†		1.03†	≥ 91.5
92.0 – 92.5	1.01†	1.02†	90.5 – 91.4	1.01†	1.02†
91.0 – 91.9	1.00	1.00	89.5 – 90.4	1.00	1.00
89.5 – 90.9	0.98	0.98	88.0 – 89.4	0.98	0.98
88.0 – 89.4	0.95	0.95	86.5 – 87.9	0.95	0.95
87.0 – 87.9	0.91	0.91	85.0 – 86.4	0.91	0.91
< 87.0	0.85	0.85	< 85.0	0.85	0.85

Longitudinal Joint (Confined Edge) Density, percent	Pay Factor B Longitudinal (Confined Edge)		Longitudinal Joint (Unsupported Edge) Density, percent	Pay Factor C (Unsupported Edge)	
	Traffic Level 2 & 3	Traffic Level 4 & 5		Traffic Level 2 & 3	Traffic Level 4 & 5
	* The Department will limit incentive payment for longitudinal joint density to lots with evaluated longitudinal joint densities. Calculate the percent of maximum specific gravity to the nearest tenth. † Payment will only apply if the day's weighted average individual production air voids fall within - ½ percent of the target air void value. Base the weighted average air voids on all the mixture production tests in accordance with 2360.2.G.7, "Production Tests" for the corresponding day and weight by the tons the corresponding test represents.				

S-42.2 Delete and replace Table 2360.5-7 of MnDOT 2360.5B.13 with the following:

Table 2360.5-7

Incentive and Disincentive Schedule for Longitudinal Joint Density, 3 percent Design Void*

Longitudinal Joint (Confined Edge) Density, percent	Pay Factor B Longitudinal (Confined Edge)		Longitudinal Joint (Unsupported Edge) Density, percent	Pay Factor C (Unsupported Edge)	
	Traffic Level 2 & 3	Traffic Level 4 & 5		Traffic Level 2 & 3	Traffic Level 4 & 5
	≥ 93.6	1.02†		1.03†	≥ 93.0
93.0 – 93.5	1.01†	1.02†	92.0 – 92.9	1.01†	1.02†
92.0 – 92.9	1.00	1.00	90.5 – 91.9	1.00	1.00
90.5 – 91.9	0.98	0.98	88.0 – 90.4	0.98	0.98
89.0 – 90.4	0.95	0.95	87.0 – 87.9	0.95	0.95
88.0 – 88.9	0.91	0.91	86.0 – 86.9	0.91	0.91
< 88.0	0.85	0.85	< 86.0	0.85	0.85
* The Department will limit incentive payment for longitudinal joint density to lots with evaluated longitudinal joint densities. Calculate the percent of maximum specific gravity to the nearest tenth. † Payment will only apply if the day's weighted average individual production air voids fall within ½ percent of the target air void value. Base the weighted average air voids on all the mixture production tests in accordance with 2360.2.G.7, "Production Test" for the corresponding day and weight by the tons the corresponding test represents.					

S-43 (2360) PLANT MIXED ASPHALT PAVEMENT (SMOOTHNESS AND SAMPLING)

REVISED 10/14/22

SP2020-132

S-43.1 Add the following to MnDOT 2360.3:

Evaluate pavement Smoothness requirements using equation HMA-B as specified in MnDOT 2399.3D.

Evaluate pavement Smoothness requirements using Percent Improvement as specified in MnDOT 2399.

S-43.2 Delete and replace the sentence in II.A and II.B in the Schedule for Materials Control with the following:

All Aggregates will be split according to G&B Manual 5-692.141, "Quartering Method of Sample Size Reduction". All asphalt mixtures will be split using AASHTO Standard Practice for Reducing Samples of Hot

Mix Asphalt (HMA) to Testing Size (R-47) using the Mechanical Splitter Method, Type A (Quartermaster or equivalent).

S-43.3 Delete and replace the third through sixth sentences of the first paragraph of MnDOT 2360.2G.4.b with the following:

Sample mixture from behind the paver. Sampling from the truck box at the plant site is not allowed unless approved by the Engineer. In addition to the QC sample, the Contractor will also bring an additional split of the mixture sample to the plant site and store for the Department for 10 Calendar Days.

S-44 (2360) PLANT MIXED ASPHALT PAVEMENT (LOCAL GOVERNMENT UNIT)

SP2020-133

S-44.1 Add the following to MnDOT 2360.1B:

Mix Designation Numbers for the bituminous mixtures on this Project are as follows:
Type SP12.5 Wearing Course Mixture SPWEB340C.

S-44.2 Delete and replace the first paragraph of MnDOT 2360.3D.1 with the following:

Compact the pavement to at least the minimum required Maximum Density values in accordance with Table 2360.3-1.

S-44.3 Delete and replace Table 2360.3-2 of MnDOT 2360.3D.1 with BLANK.

S-44.4 Delete and replace MnDOT 2360.3D.1.j with the following:

D.1.j Companion Core Testing
 The Department will select at least one of the two companion cores per lot to test for verification.

S-44.5 Delete and replace MnDOT 2360.3D.1.n with BLANK.

S-44.6 Delete and replace MnDOT 2360.3D.1.p with BLANK.

S-44.7 Delete and replace Table 2360.5-6 of MnDOT 2360.5B.13 with BLANK.

S-44.8 Delete and replace Table 2360.5-7 of MnDOT 2360.5B.13 with BLANK.

S-45 (2399) PAVEMENT SURFACE SMOOTHNESS

REVISED 12/29/23

SP2020-136.1

S-45.1 Delete and replace Table 2399.3-1 of MnDOT 2399.3B with the following:

Table 2399.3-1
Areas Excluded from Smoothness Evaluation

Pavement	Excluded Areas
Bituminous or concrete	Paving in areas with a posted vehicle speed less than or equal to 45 mph
	Ramps, Loops
	Acceleration and deceleration lanes less than 1,000 feet in length
	Physically isolated segments less than 1,000 feet in length
	Projects less than 1,000 feet in length

Pavement	Excluded Areas
	Intersections constructed under traffic – begin and end exclusion 100 feet from the Intersection radius
Bituminous	Single Lift overlays placed directly on concrete
Concrete	Doweled Shoulders greater than or equal to 10 feet in width

S-45.2 Delete and replace Table 2399.3-2 of MnDOT 2399.3B with the following:

Table 2399.3-2
Areas Excluded from Smoothness and ALR Evaluation

Pavement	Excluded Areas
Bituminous or concrete	Paving in areas with a posted vehicle speed less than or equal to 35 mph
	Paving in areas with a cautionary vehicle speed less than or equal to 35 mph
	Turn Lanes, crossovers
	20 feet on either side of obstructions in lane that obstruction is located
	Side Streets, side connections
	150 feet before stop signs at an Intersection
	150 feet before yield signs or concrete curb/median areas at a roundabout
	Bridge decks, approach panels
	20 feet from Bridge decks or approach panels
20 feet from terminal headers tying into existing pavement	
Bituminous	Paved Shoulders
	Intersections where mainline profiles are merged or blended into the cross Street profile – begin and end exclusion 100 feet from the Intersection radius
Concrete	Doweled Shoulders less than 10 feet in width
	Undoweled Shoulders
	Headers adjacent to colored concrete

S-45.3 Delete and replace MnDOT 2399.3D.1.a with the following:

D.1.a Bituminous Pavements
 See Section 2360, "Plant Mixed Asphalt Pavement" of the Special Provisions for the Smoothness equation requirements. If no Smoothness equation is specified in the Contract, evaluate with equation HMA-C.

S-45.4 Delete and replace Table 2399.5-1 of MnDOT 2399.5A.1.a with the following:

Table 2399.5-1
Smoothness Incentive/Disincentive and Corrective Work for Bituminous Pavements

Equation	Smoothness inches/mile	Incentive/Disincentive \$/0.1 mile
HMA-A	< 25.0	400.00
	25.0 – 75.0	800.00 – 16.000 × Smoothness
	> 75.0	Corrective Work to ≤ 50.0 inches per mile
HMA-B	< 30.0	270.00
	30.0 – 80.0	594.00 – 10.800 × Smoothness
	> 80.0	Corrective Work to ≤ 55.0 inches per mile
HMA-C	< 35.0	180.00
	35.0 – 95.0	390.00 – 6.000 × Smoothness
	> 95.0	Corrective Work to ≤ 95.0 inches per mile

S-46 (2433) STRUCTURE RENOVATION

REVISED 06/30/23

SP2020-141.2

S-46.1 Delete and replace the second paragraph of MnDOT 2433.3C.5.b with the following:

Collect all debris and other Material removed from the surface and cracks and dispose of it in accordance with 2104.3D, “Disposal of Materials and Debris.”

S-47 (2442) REMOVAL OF EXISTING BRIDGES

REVISED 04/14/23

SP2020-142

S-47.1 Add the following to MnDOT 2442.3:

E Testing, Waste Transport and Disposal of Asbestos and Regulated Waste

Test, transport and dispose of regulated waste material in accordance with Asbestos and Regulated Waste Manual For Structure Demolition or Relocations for Construction Projects at <http://www.dot.state.mn.us/environment/regulatedmaterials/index.html>.

Remove, identify and dispose of regulated waste material in accordance with S-19 (1701) LAWS TO BE OBSERVED (BRIDGE).

Provide notices to the Engineer prior to beginning removals, with the exception of material needed for hazardous and regulated waste assessment or testing.

S-48 (2451) STRUCTURAL BACKFILL

REVISED 10/14/22

SP2020-143

- S-48.1 DESCRIPTION
This Work consists of backfilling the box culvert in accordance with MnDOT 2451.
- S-48.2 MATERIALS
Structural Backfill MnDOT 3149.2D.2
- S-48.3 CONSTRUCTION REQUIREMENTS – See Standard Specifications for Construction

S-48.4 METHOD OF MEASUREMENT
 The Engineer will measure Structural Backfill by Compacted Volume.

S-48.5 BASIS OF PAYMENT
 The Contract Unit Price for Structural Backfill is compensation in full for Equipment, Materials and labor required to complete the Work.

The Department will pay for Structural Backfill on the basis of the following schedule:

<u>Item No.</u>	<u>Item</u>	<u>Unit</u>
2451.607	Structural Backfill.....	cubic yard

S-49 (2461) STRUCTURAL CONCRETE

REVISED 09/29/23

SP2020-145

S-49.1 Delete and replace the second sentence of MnDOT 2461.2E.1.e with the following:

Use “EX” for exposed Aggregate mixes, “CO” for colored concrete mixes, and “FRC” for fiber reinforced concrete mixes.

S-49.2 Delete and replace Table 2461.2-5 with the following:

Table 2461.2-5
Concrete Mix Design Requirements for Grout and Lean Mix Backfill Mixes

Mix Number	Maximum W/C Ratio	Water Content (pounds)	Cement Content (pounds)	Fly Ash Content (pounds)	Fine Aggregate Calculation (pounds)	Coarse Aggregate Calculation (pounds)	Percent Air Content	Slump Range	Minimum 28-Calendar Day Compressive Strength, f’c
1A Grout*	0.50	379	758	0	100 percent †	0	3.0	As needed	4000 psi
3A Grout *	0.44	379	865	0	100 percent †	0	10.0	As needed	4000 psi
Lean Mix	1.00	375	125	250	50 percent†	50 percent† ‡	N/A	10 inches ± 1 inch	#

* Do not provide 1A or 3A grout containing coarse Aggregate or fly ash.
 || Coarse Aggregate quality meets requirements of 3137.2D.1, “Coarse Aggregate for General Use.”
 † After adding the specified quantities of cement, fly ash, and water, provide the remaining Aggregate to an absolute volume 27.00 – 27.27 cubic feet.
 ‡ Meeting #67 gradation as shown in Table 3137.2-4.
 # Maximum 28-Calendar Day compressive strength of 1500 psi.

S-49.3 Delete and replace Table 2461.2-6 of MnDOT 2461.2E.2.b(1) with the following:

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 34

S.A.P. # 002-628-008

**Table 2461.2-6
Concrete Mix Design Requirements (Not applicable to High-Performance Concrete or Mass Concrete)**

Concrete Grade	Mix Number	Intended Use *	Maximum W/C Ratio 	Maximum Cementitious Content (pounds/ cubic yard)	Maximum percent SCM (Fly Ash/ Slag/Ternary)	Design Slump Range (inches)	Minimum 28-day Compressive Strength, f'c	3137, "Coarse Aggregate for Portland Cement Concrete."
B Bridge Substructure	3B52	Abutment, stems, wingwalls, paving brackets, pier columns, and caps, pier struts	0.45	750	30/35/40	2 - 5	4000 psi	2D.1
F Flatwork	3F32	Curb and gutter	0.42	750	30/35/0	1/2 - 3 #	4500 psi	2D.1
	3F52 3F57EX + 3F52CO ‡	Sidewalk, curb and gutter, slope paving, median Sidewalk, driveway entrances, ADA pedestrian Sidewalk	0.45	750	25/30/0	2 - 5	4500 psi	2D.1
G General Concrete	1G52	Footings and pilecap	0.55	750	30/35/40	2 - 5	4500 psi	2D.1
	3G52	Footings, pilecap, walls, cast-in-place manholes and catch basins, fence posts, signal bases, Light Pole foundations, erosion control Structures, cast-in-place box culverts, Culvert headwalls, open flumes, cast-in-place wall stems	0.45	750	30/35/40	2 - 5	4500 psi	2D.1
M Median Barrier	3M12	Slipform barrier, Median barrier, non-bridge	0.42	750	30/35/40	1/2 - 1 #	4500 psi	2D.1
	3M52	Barrier, Median barrier, non-bridge	0.45	750	30/35/40	2 - 5	4500 psi	2D.1
P Piling	1P42	MSE and gravity wall leveling pad	0.63	750	30/35/40	2 - 4	3000 psi	2D.1
	1P62	Piling, spread footing leveling pad	0.63	750	30/35/40	3 - 6	3000 psi	2D.1
R Pavement Rehabilitation	3R52	CPR – Full-depth concrete repairs, concrete base	0.45	750	30/35/40	2 - 5	4000 psi	2D.3
S Bridge Superstructure	3S12	Slipform Bridge barrier, parapets, end post	0.42	750	30/35/40	1/2 - 1 #	4000 psi	2D.2
	3S52	Median barrier, raised median, pilaster, curb, Sidewalk, approach panel, formed Bridge barrier, parapet, end post, collar	0.45	750	30/35/40	2 - 5	4000 psi	2D.2
X Miscellaneous Bridge	1X62	Cofferdam seals, rock sockets, drilled shafts	0.45	750	30/35/40	3 - 6	5000 psi	2D.1
	3X62	Drilled shafts above the frost line	0.45	750	30/35/40	3 - 6	5000 psi	2D.1

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 35

S.A.P. # 002-628-008

Concrete Grade	Mix Number	Intended Use *	Maximum W/C Ratio 	Maximum Cementitious Content (pounds/ cubic yard)	Maximum percent SCM (Fly Ash/ Slag/Ternary)	Design Slump Range (inches)	Minimum 28-day Compressive Strength, f'c	3137, "Coarse Aggregate for Portland Cement Concrete."
Y Bridge Deck	3Y42-M § 3Y42-S §	Bridge decks, integral abutment diaphragms, pier continuity diaphragms, expansion joint replacement mix	0.45	750	30/35/40	2 - 4	4000 psi	2D.2
	3Y47 **	Deck patching mix	0.45	750	30/35/40	2 – 4	4000 psi	2D.2
<p>If the intended use is not included elsewhere in the Specification or Special Provisions, use mix 3G52, unless otherwise directed by the Engineer.</p> <p> The minimum Water/Cement (W/C) ratio is 0.30.</p> <p>† Mix 3F57EX requires the use of Coarse Aggregate Designation "7", "2" or "3" for the 4th digit in accordance with Table 2461.2-3.</p> <p>‡ Identify the specific color used on the Certificate of Compliance. Colored concrete is only allowed when specified in the Plans or the Contract.</p> <p># Adjust slump in accordance with 2461.3G.7.a, "Concrete Placed by the Slip-Form Method," for slip-form concrete placement.</p> <p>§ The "-S" indicates a Bridge deck with a structural slab and "-M" indicates a monolithic Bridge deck.</p> <p>** Mix 3Y47 requires the use of Coarse Aggregate Designation "7" or "3" for the 4th digit in accordance with Table 2461.2-3.</p>								

S-49.4 Delete and replace the first sentence of 2461.2E.2.b(2) with the following:

The Department defines High-early (HE) concrete as concrete designed to achieve the minimum strength and time required in accordance with Table 2461.2-7.

S-49.5 Delete and replace Table 2461.2-7 with the following:

Table 2461.2-7
High-Early (HE) Concrete Requirements
(Not applicable to Bridge Superstructure or Mass Concrete)

Mix Number	Concrete Grades Allowed	Minimum Design Time to Opening	Maximum W/C Ratio	Maximum Cementitious Content (pounds/cubic yard)*	Slump Range	Minimum Design Strength to Opening	Minimum 28-Calendar Day Compressive Strength, f'c	3137 "Coarse Aggregate for Portland Cement Concrete"
1PHE62	P	-	0.63	750	3 – 6 inches	-	3000 psi	2.D.1
3HE32	F	48 hours	0.42	750	1/2 – 3 inches †	2000 psi	4500 psi	2.D.1
3HE52	F	48 hours	0.42	750	2 – 5 inches	2000 psi	4500 psi	2.D.1
3HE52	B and G	48 hours	0.42	750	2 – 5 inches	3000 psi	4500 psi	2.D.1
3YHE52	Y (Repairs Only)	48 hours	0.42	750	2 – 5 inches	3000 psi	4000 psi	2.D.2
3RHE52	R (Repairs Only)	48 hours	0.42	750	2 – 5 inches	2000 psi	4000 psi	2.D.3

* Supplementary cementitious Materials allowed.

|| Used only for placing concrete in piles during freezing temperatures, provide 30 percent additional cement to the concrete mix for concrete 10 feet below the ground line or water line in accordance with 2451.3D.6, "Cast-in-Place Concrete Piles."

† Adjust slump in accordance with 2461.3G.7.a, "Concrete Placed by the Slip-Form Method."

S-49.6 Delete and replace Table 2461.2-8 with the following:

Table 2461.2-8
Project Specific Contractor Designed Mixes

Concrete Grade	Intended Use	Specification	3137 "Coarse Aggregate for Portland Cement Concrete"
A	Concrete Pavement	2301, "Concrete Pavement"	2.D.3
M, V, W, Z	Precast Concrete	2462, "Precast Concrete"	Varies
HPC	High Performance Concrete	2401, "Concrete Bridge Construction"	2.D.2
MC	Mass Concrete	Special Provision 2401	Varies
SCC	Self-consolidating Concrete	Special Provision 2401	Varies
CLSM, LCCF	Cellular Concrete Grout	2519, "Cellular Concrete"	None
Non-MnDOT Designated	Per Contract	Per Contract	Per Contract
All concrete grades	Delivery Time is > 90 minutes	2461.3G.3.a, "Delivery Time Beyond 90 minutes"	Varies

S-49.7 Delete and replace Table 2461.2-11 of MnDOT 2461.2E.4 with the following:

Table 2462.2-11
Mix Design Adjustments/Requirements

	Type of Change or Adjustment	Mix Design Resubmittal Requirements
Level 1 mixes	Cementitious Sources Admixture Sources Admixture Dosage Rate	No resubmittal required
	Aggregate Sources Aggregate Proportions Any cementitious proportion ($\leq 15\%$ max fly ash)	Resubmittal of Mix Design
	Any cementitious proportion ($> 15\%$ max fly ash)	Resubmittal in accordance with 2461.2E.3.a, "Preliminary Test Data Requirements for Level 2 Mixes"
Level 2 mixes	Cementitious Sources Admixture Dosage Rate	No resubmittal required
	Aggregate Source, no change in Aggregate Class $\leq 5\%$ Total Cementitious $\leq 10\%$ Individual Aggregate Weights	Resubmittal of Mix Design
	Aggregate Source and Class of Coarse Aggregate Supplementary Cementitious Proportion $> 5\%$ Total Cementitious $> 10\%$ Individual Aggregate Weights Admixture Sources	Resubmittal in accordance with 2461.2E.3.a, "Preliminary Test Data Requirements for Level 2 Mixes"
* Only one (1) increase in total cementitious allowed per mix design, next adjustment requires resubmittal in accordance with 2461.2E.3.a, "Preliminary Test Data Requirements for Level 2 Mixes"		

S-49.8 Add the following to 2461.3D.1:

2461.3D.1.g Fiber Proportioning

Do not incorporate fiber packaging materials into the Concrete. The Engineer considers the following fiber addition methods acceptable on all jobs:

1. Open bag and distribute fibers on Aggregate belt at Ready-mix Concrete plant
2. Open bag, break apart any fiber clumps, and introduce fibers into Ready-mix Concrete truck in a well-distributed manner

Any alternate methods to add fibers to the concrete mix must be submitted for acceptance by the Engineer and demonstrated by a successful trial placement.

Ensure fibers are uniformly dispersed in the Concrete to avoid balling. Balling of fibers is defined as a 2-inch diameter or greater conglomerate of fibers at the point of placement. The Engineer will consider any balling more prevalent than 1 per load of Concrete as unacceptable and may reject the load of concrete.

S-49.9 Delete and replace the second sentence of 2461.3F.2 with the following:

If the computer that generates the Certificate of Compliance malfunctions, the Engineer may allow the Contractor to finish any pours in progress if the Producer issues a handwritten or computer-generated Department Form 0042, *Certificate of Compliance* with each load. The Engineer will not allow the Producer to begin new pours without a working computerized Certificate of Compliance.

S-49.10 Add the following to MnDOT 2461.3F.2:

- (22) Fibers, brand, and dosage per cubic yard
- (23) Ready-Mix Sheet Number (RMX###-###), JMF Sheet Number (JMF##-###), or PS Sheet Number (PS##-##)
- (24) MnDOT Designation Plant/Unit Number (RM###)

S-49.11 Delete and replace the first and second paragraphs of MnDOT 2461.3F.3.e with the following:

The Producer will complete and maintain the Concrete Ready-mix Plant QC Workbook in Real Time using their full name for the diary and each test performed.

S-49.12 Add the following to MnDOT 2461.3G.2:

The Contractor and Engineer will perform random sampling and testing in accordance with ASTM C172, Standard Practice for Sampling Freshly Mixed Concrete; ASTM C1064, Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete; and the Schedule of Materials Control.

S-49.13 Add the following to MnDOT 2461.3G.5:

For all cast-in-place concrete as specified in 2461, including HE concrete, place concrete meeting the strength requirements into the Work. Unless otherwise included in the Plans, HE concrete requires approval of the Engineer before incorporation into the Work.

S-49.14 Delete and replace Table 2461.3-3 of MnDOT 2461.3G.6.a(1) with the following:

Table 2461.3-3
Chronological Testing Ages of Strength Specimens

Type of Concrete	Testing Ages*
Concrete Pavement as defined in 2301, "Concrete Pavement"	Test at least 2 sets of strength specimens before and the remaining sets after the anticipated opening strength
Normal Strength Concrete as defined in 2461, "Structural Concrete"	1, 3, 7, 14, and 28-Calendar Days
High-early (HE) Concrete as defined in 2461, "Structural Concrete"	12 hours, 1, 2, 7, and 28-Calendar Days
Ultra High-Early (UHE) Concrete as defined in 2302, Concrete Pavement Rehabilitation"	3, 4, and 8 hours, 1 and 14-Calendar Days
* The Contractor may adjust the testing ages if approved by the Engineer, in conjunction with the Concrete Engineer.	

S-49.15 Delete and replace the second sentence of MnDOT 2461.3G.7 with the following:

The Contractor and Engineer will perform random sampling and testing in accordance with ASTM C172, Standard Practice for Sampling Freshly Mixed Concrete; ASTM C143, Standard Test Method for Slump of Hydraulic-Cement Concrete; ASTM C1611, Standard Test Method for Slump Flow of Self-Consolidating Concrete; and the Schedule of Materials Control.

S-49.16 Delete and replace the second sentence of MnDOT 2461.3G.8 with the following:

The Contractor and Engineer will perform random sampling and testing in accordance with ASTM C172, Standard Practice for Sampling Freshly Mixed Concrete; ASTM C231, Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method; and the Schedule of Materials Control.

S-49.17 Delete and replace MnDOT 2461.5A.2.d with the following:

If the moving average of 3 consecutive strength tests is less than the required $f'c$, the Concrete Engineer will review the strength test results and determine if a new mix design is required in accordance with Table 2461.2-6 or Table 2461.2-7.

The Concrete Engineer in conjunction with the Engineer will remove any strength test results from the moving average if the following occurs:

- (1) After investigation, the cause for the deficient concrete strength is due to improper handling, curing, or testing of the cylinder
- (2) Cylinders kept in the field longer than 7-Calendar Days that negatively impact the moving average calculation
- (3) The suspect concrete was removed and replaced
- (4) Dispute resolution coring identified the concrete acceptable to remain in place

For the quantity of non-conforming concrete not meeting the moving average of 3 consecutive strength tests, the Engineer will make determinations regarding the disposition, payment, or removal of the concrete in accordance with Table 2461.5-5.

S-49.18 Delete and replace Table 2461.5-5 with the following:

Table 2461.5-5
All Concrete Grades

Moving average of 3 consecutive strength tests	Monetary Deductions for Moving Average Failure *
> 96.0 percent of f'c	No deductions for the Materials placed as approved by the Engineer.
91.0 percent to 96.0 percent of f'c	\$20.00 per cubic yard or 10 percent of the Contractor-provided invoice for quantity represented by test that brought moving average into non-conformance.
≥ 87.5 percent and ≤ 91.0 percent of f'c	\$50.00 per cubic yard or 25 percent of the Contractor-provided invoice for quantity represented by test that brought moving average into non-conformance.
< 87.5 percent of f'c	Remove and replace concrete in accordance with 1503, "Conformity with Contract Documents," and 1512, "Unacceptable and Unauthorized Work," as directed by the Engineer. If the Engineer, in conjunction with the Concrete Engineer, determines the concrete can remain in-place, the Engineer will adjust the concrete at a reduction of \$100.00 per cubic yard or 50 percent of the Contractor-provided invoice for quantity represented by test that brought moving average into non-conformance.

S-50 (2462) PRECAST CONCRETE

RESTORED 06/30/23

SP2020-146

S-50.1 Delete and replace the first and fourth paragraphs of MnDOT 2462.3G.4 with the following:

Take samples randomly in accordance with *ASTM D3665, Standard Practice for Random Sampling of Construction*, Section 5, at a rate defined in accordance with the Schedule of Materials Control.

Perform random sampling and testing in accordance with ASTM C172, Standard Practice for Sampling Freshly Mixed Concrete; ASTM C1064, Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete; ASTM C231, Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method; ASTM C143, Standard Test Method for Slump of Hydraulic-Cement Concrete; ASTM C1611, Standard Test Method for Slump Flow of Self-Consolidating Concrete; and the Schedule of Materials Control.

Furnish 4-inch by 8-inch cylinder molds, unless the maximum Aggregate size is greater than 1 1/4 inches, then furnish 6-inch by 12-inch cylinder molds.

S-51 (2501) PIPE CULVERTS

RESTORED AND REVISED 06/30/23

SP2020-149

S-51.1 Delete and replace MnDOT 2501.2H with the following:

H Geotextile, Type 3 3733

S-51.2 Add the following to MnDOT 2501.3:

H. Geotextile

Use Geotextile 3733 Type 1 to wrap concrete pipe joints or for other drainage applications.

S-52 (2501) PIPE CULVERT

REVISED 06/30/22

SP2020-156

- S-52.1 DESCRIPTION
This Work consists of furnishing and installing pipe culverts and fittings in accordance with MnDOT 2501 and Section 12 of the AASHTO LRFD Bridge Design Specifications.
- S-52.2 MATERIALS
Material options are shown on the Plans.
- S-52.3 CONSTRUCTION REQUIREMENTS – See Standard Specifications for Construction.
- S-52.4 METHOD OF MEASUREMENT
The Engineer will measure the length of Pipe Culvert furnished and installed.
- S-52.5 BASIS OF PAYMENT
The Contract Unit Price for Pipe Culvert is compensation in full for Equipment, Materials and labor required to complete the Work.

The Department will pay for Pipe Culvert on the basis of the following schedule:

Item No.	Description	Unit
2501.603	___ " Pipe Culvert	linear foot

S-53 (2506) MANHOLES AND CATCH BASINS

NEW 10/14/22

SP2020-164.1

- S-53.1 Delete and replace MnDOT 2506.3G with the following:

Provide vertical adjustment of access castings made to the planned elevation on the Structure. Meet the criteria that full support for the casting is obtained above the cone section. Limit thickness of each adjusting ring to 6 inches or less. Encase adjusting rings in mortar according to the Plan.

Construct new structures so the height above the cone does not exceed 9 inches, including mortar but not including the frame. Use no more than 2 adjusting rings.

Reconstruct in-place structures so the height above the cone does not exceed 12 inches, including mortar but not including the frame. Use no more than 3 adjusting rings. If these criteria cannot be met by vertical adjusting Work, reconstruct the Structure.

For upward adjustment of castings, the Contractor may use any of the Structure Materials or applicable construction methods specified in this subsection, provided they are compatible with the in-place construction. The Contractor may use auxiliary ring castings and adjusting rings as shown on the Plans.

S-54 (2511) RIPRAP

REVISED 09/29/23

SP2020-169

- S-54.1 Delete and replace MnDOT 2511.2C with the following

C	3A Grout	2511
---	----------------	------

S-54.2 Delete and replace MnDOT 2511.3F with the following:

F. Quality Control (QC)

Refer to the requirements in the Schedule of Materials Control for Project specific requirements.

F.1 Gradation and Certification Requirements

For riprap meeting 3601.2A, "Random Riprap," test one gradation per year for each product using either:

- (1) FHWA Hydraulic Toolbox, Test method 5-692.212 in the Grading and Base Manual. Record and submit results using form G&B-108a, "Riprap Gradation D85 and FHWA Hydraulic Toolbox," found on the MnDOT Grading and Base website
- (2) WipFrag or an alternative image analysis software, approved by the Engineer. Record and submit results using and submit form G&B-108a, "Riprap Gradation D85 and FHWA Hydraulic Toolbox," found on the MnDOT Grading and Base website
- (3) Wolman Count Method. Test method 5-692.211 in the Grading and Base Manual. Record and submit results using form G&B-108b, "Riprap Gradation Wolman Method," found on the MnDOT Grading and Base website

For riprap meeting 3601.2B, "Hand placed Riprap," provide certification that the stone meets Contract-required thickness of riprap, following guidance in 2511.3C.2, "Hand-Placed Riprap", and individual stones have a weight of at least 50 pounds.

F.2 Carbonate Quarried Riprap

For riprap meeting 3601.2A, "Random Riprap," or 3601.2B, "Hand-placed Riprap," the supplier is required to have an approved QC Plan, prior to delivery of stone, when either of the following apply:

- (1) Quantities are greater than 100 cubic yards
- (2) Riprap is used for Bridge protection, as shown in the Plan

The Carbonate riprap QC Plan requirements are found on the MnDOT Geology Web page. Contact the MnDOT Geology Unit a minimum of 60-Calendar Days prior to supplying riprap.

Provide certification, for each product, using form G&B-104b, "Riprap Quality Control Plan," and attach required test(s).

F.3 Riprap meeting 3601.2C, "Gabions and Revet Mattresses," 3601.2D, "Granular Filter under Class I Random Riprap," and 3601.2E, "Granular Filter Under Riprap, Gabion, and Revet Mattress".

Provide certification using form G&B-104, "Certification of Aggregates and Granular Materials," found on the MnDOT Grading and Base website.

S-54.3 Delete and replace MnDOT 2511.3G.1 with the following:

G.1 Riprap meeting 3601.2A, "Random Riprap," or 3601.2B, "Hand-placed Riprap".

For gradation compliance of riprap meeting 3601.2A, "Random Riprap," the Engineer will visually inspect the riprap and perform the D85 test, test method 5-692.210, listed in the Grading and Base Manual and complete form G&B-108a, "Riprap Gradation D85 and FHWA Hydraulic Toolbox," found on the MnDOT Grading and Base website.

If the material fails to meet requirements based on the visual check or the D85 results, the Engineer will test the gradation using one of the following methods:

- (1) FHWA Hydraulic Toolbox, 5-692.212 test method, listed in the Grading and Base Manual and form G&B-108a, "Riprap Gradation D85 and FHWA Hydraulic Toolbox"
- (2) WipFrag or a similar image analysis software, as approved by the Engineer, and form G&B-108a, "Riprap Gradation D85 and FHWA Hydraulic Toolbox"
- (3) The Wolman Count, 5-692.211 test method, listed in the Grading and Base Manual and form G&B-108b, "Riprap Gradation Wolman Method"

For riprap meeting 3601.2B, "Hand-placed Riprap," the Engineer will visually inspect the riprap to ensure it meets the requirements of 2511.3C.2, "Hand-Placed Riprap."

S-55 **(2531) CONCRETE CURBING**

NEW 09/29/23
SP2020-172.1

S-55.1 Delete and replace the third sentence of MnDOT 2531.4B with the following:

In the case of transitions from one thickness or design to another, the Engineer will measure the entire transition for payment under the item with the higher Contract Unit Price.

S-55.2 Delete and replace the first sentence of MnDOT 2531.5A.2 with the following:

The Engineer will consider concrete Work with deviations 3/8 inch or greater in any 10 foot length of curb and gutter, either horizontal or vertical, as unacceptable Work.

S-56 **(2557) FENCING**

NEW 09/29/23
SP2020-189.1

S-56.1 Delete and replace MnDOT 2557.2E with the following:

Provide concrete mix 3G52 in accordance with 2461, "Structural Concrete."

S-57 **(2562) ADDITIONAL TRAFFIC CONTROL DEVICES AND EXTENDED USE OF TRAFFIC CONTROL DEVICES**

REVISED 11/08/21
SP2020-193

S-57.1 DESCRIPTION
 This Work consists of providing additional traffic control devices in accordance with S-58 (2563) TRAFFIC CONTROL and as authorized by the Engineer.

The Engineer is authorized to:

- (1) Require extra traffic control devices in addition to the traffic control devices shown in the Traffic Control Plan or in the Field Manual.
- (2) Require additional traffic control devices for EXTRA WORK.
- (3) Require extended use for all traffic control devices which are impacted by excusable and compensable delays, as defined in MnDOT 1806.2B.
- (4) Negotiate compensation for a Lump Sum Payment.

S-57.2 MATERIALS
 Devices must meet Contract requirements, quality standards detailed in the Field Manual, and be in functional and legible condition. Maintain sufficient crashworthy standards. Devices not meeting these requirements must be immediately replaced or repaired.

S-57.3 CONSTRUCTION REQUIREMENTS

Furnish the additional traffic control devices as ordered by the Engineer.

S-57.4 METHOD OF MEASUREMENT

Driven post supports and all mounting hardware for 48”X48” signs and Standard Signs are included in the Traffic Control Pay Item.

Standard Signs with Portable Supports will be calculated and paid for as follows: Total Standard Sign Sq. Ft. + Portable Support Cost (listed in Table SP2562-1) = Standard Signs with Portable Supports Cost per day.

Construction Sign-Special will be measured by the sign face area furnished, installed including supports, maintained, and removed. Install with square tube steel posts and slip bases meeting MASH crashworthy standards.

Flaggers and Police Officers will be measured by the number of hours each is in service on the job. The Police Officer must be properly uniformed including a reflectorized high-visibility safety vest and fully equipped including police car.

S-57.5 BASIS OF PAYMENT

The Department will not use the predetermined Unit Prices listed in Table SP2562-1 if payment for a device is specifically provided for elsewhere in the Contract.

A Devices, Flaggers and Police Officers:

The Engineer and Contractor are authorized to negotiate the terms of compensation for additional traffic control devices and extended use of traffic control devices. If the Engineer and Contractor are unable to agree on compensation using Contract Unit Prices or by negotiation, the Department will pay for traffic control devices according to the schedule of pre-determined prices in the following schedule:

Table SP2562-1
Additional Traffic Control Devices, Flaggers and Police Officers

Item Number	Item	Unit	Pre-determined Price
2562.602	Impact Attenuator*	Each	\$66.00
2562.603	Pedestrian Channelizer*	Linear Foot	\$0.32
2562.603	Portable Precast Concrete Barrier Design 8337*	Linear Foot	\$0.08
2562.610	Flagger	Hour	
2562.610	Police Officer†	Hour	
2562.613	Sidewalk Barricade	Unit Day	\$1.43
2562.613	Type III Barricade	Unit Day	\$2.59
2562.613	Flasher Type A (Low Intensity)	Unit Day	\$0.50
2562.613	Tubular Marker	Unit Day	\$0.43
2562.613	Type A Cone Channelizer	Unit Day	\$0.31
2562.613	Type A Weighted Channelizer	Unit Day	\$0.69
2562.613	Opposing Traffic Lane Divider	Unit Day	\$3.38
2562.613	Reflectorized Drum	Unit Day	\$0.86
2562.613	Flashing Arrow Board	Unit Day	\$33.73
2562.613	Portable Changeable Message Sign‡	Unit Day	\$75.00
2562.613	Vehicle Speed Feedback Sign	Unit Day	\$37.85
2562.613	48”X48” Sign	Unit Day	\$1.54
2562.613	48”X48” Sign with Supports	Unit Day	\$2.37
2562.613	Portable Sign Support	Unit Day	\$0.80
2562.618	Standard Sign*	Square Foot	\$0.24
2562.618	Construction Sign Special (Additional)	Square Foot	\$37.27
2562.613	Construction Sign Special (Extended Duration)*#	Square Foot	\$0.35

Item Number	Item	Unit	Pre-determined Price
2562.613	Audible Message Device	Unit Day	\$1.11
2562.613	Temporary Pedestrian Ramp	Unit Day	\$7.25
2562.613	Portable Rumble Strips (set of 3)	Unit Day	\$50.00
* Item will be paid by the item unit per each day in use. Will be paid in accordance with MnDOT 1904.4A. † Will be paid at the invoice price plus 10%. ‡ Type C Trailer Mounted Message Sign. # Only to be paid when used for extended duration and a compensable delay is approved.			

B Labor and Equipment:

The Engineer and Contractor are authorized to negotiate the terms of compensation for labor and Equipment to furnish, install and remove additional traffic control devices listed in Table SP2562-1. If the Engineer and Contractor are unable to agree on compensation by negotiation, the Department will pay for labor and Equipment according to the following mileage-based method:

The Department will pay \$500.00 for the first 30 miles for mobilization and installation of additional traffic control devices. The Engineer will determine mileage based on the distance from the Traffic Control Contractor’s closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional placement(s), round trip. The Department will pay a minimum of \$500.00.

The Department will pay \$2.40 per mile traveled over 30 miles. The Engineer will determine mileage based on the distance from the Traffic Control Contractor’s closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional placement(s), round trip.

The Department will pay \$500.00 for the first 30 miles for de-mobilization and removal of additional traffic control devices. The Engineer will determine mileage based on the distance from the Traffic Control Contractor’s closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional removal(s), round trip. The Department will pay a minimum of \$500.00.

The Department will pay \$2.40 per mile traveled over 30 miles. The Engineer will determine mileage based on the distance from the Traffic Control Contractor’s closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional removal(s), round trip.

The Department will not pay for labor and Equipment for the installation/removal of additional traffic control devices when additional traffic control Work is combined with Plan-provided traffic control devices installation/removal during the original Contract period, unless a Contract revision meets the requirements listed in MnDOT 1402.3 and the Plan does not contain Item 2563.601 (Traffic Control).

The Department will not pay for labor and Equipment to inspect and maintain additional traffic control devices during the original Contract period, unless a Contract revision meets the requirements listed in MnDOT 1402.3 and the Plan does not contain Item 2563.601 (Traffic Control).

The Department will pay for labor and Equipment to inspect and maintain all traffic control devices when an extension of Contract Time is due to an excusable and compensable delay in accordance with MnDOT 1806.2B.

The Department will not pay for labor and Equipment to remove existing traffic control devices, provided under S-58 (2563) TRAFFIC CONTROL, when Contract Time is extended.

S-58 (2563) TRAFFIC CONTROL

REVISED 04/14/23

SP2020-195

S-58.1 DESCRIPTION

This Work consists of furnishing, installing, maintaining, and removing all traffic control devices required to provide safe movement of traffic and pedestrians through the Project at all times from commencement of the Work until Project Acceptance. Maintain roads and pedestrian facilities undergoing improvements in a condition that accommodates public traffic. Do not close roads or pedestrian facilities, except as authorized. The Engineer may modify the requirements for traffic control as deemed necessary.

The Department will maintain Detour Roads established by the Commissioner for through traffic diverted from the Project unless otherwise indicated in the Plan.

The use of maintenance crossovers in or near the construction area is permitted if authorized by the Engineer.

The Contractor is not responsible for snow removal from roads or pedestrian facilities open to public traffic. Do not suspend operations for the winter until meeting the requirements of 1803.4, "Temporary Suspensions". During authorized winter suspension, the Department will maintain traffic control devices. If traffic control devices are damaged or destroyed, the Department will pay the Contractor the value of the device as determined by the Engineer.

All temporary traffic management must conform to and be installed in accordance with:

- the "Minnesota Manual on Uniform Traffic Control Devices" (MN MUTCD);
- the "Minnesota Temporary Traffic Control Field Manual" (Field Manual);
- the "Speed Limits in Work Zones Guidelines";
- the "Minnesota Flagging Handbook";
- the "MnDOT Standard Signs and Markings Manual";
- the Plan;
- all applicable standard Specifications and Special Provisions.

Manuals listed above may be found at: <http://www.dot.state.mn.us/trafficeng/publ/index.html>

S-58.2 MATERIALS

A Temporary Signs and Devices

Reflectorize all signs, paddles, and other traffic control devices including those used for daytime operations. Fabricate temporary rigid signs and devices with retroreflective sheeting material of the appropriate color listed on the Approved Products List (APL) for either "Sheeting for Rigid Temporary Work Zone Signs, Delineators, and Markers (Type IX and XI)" or "Sheeting for Rigid Permanent Signs, Delineators, and Markers (Type IX and XI)". The sheeting Materials APL is located at the following link:

<http://www.dot.state.mn.us/products/signing/sheeting.html>.

Inplace signs that still apply during temporary operations need no change in sign sheeting.

B Vehicle Conspicuity Tape

The Approved Products List for "Conspicuity Vehicle Sheeting (Type VII)" is found at:

<http://www.dot.state.mn.us/products/signing/sheeting.html>

C Truck/Trailer Mounted Attenuators

The Approved Products List for "Mobile Crash Attenuators" is found at:

<http://www.dot.state.mn.us/products/temporarytrafficcontrol/mobilecrashattenuators.html>

D Drum Sheeting

On Projects requiring drums per MnDOT Standard Plate No. 8000 Temporary Channelizers – Type B, provide all drums with six-inch fluorescent orange and white sheeting material with no gap between sheeting layers.

E Crashworthy Signs, Traffic Control Devices, and Ballast

Signs and traffic control devices must be crashworthy and meet the crash testing requirements of the AASHTO Manual for Assessing Safety Hardware 2016 (MASH-16). The Department may require a letter of compliance stating that all signs and traffic control devices comply with MASH-16 requirements. The Letter of Compliance must include drawings of the different signs and devices along with a copy of the FHWA issued Letter of Eligibility or MnDOT MASH Crashworthy Evaluation.

See MnDOT Technical Memorandum No. 19-03-T-01 for information and timelines on the allowable use of crashworthy devices tested under NCHRP-350. <https://techmemos.dot.state.mn.us/techmemo.aspx>

The approved ballast system for signs and devices mounted on temporary portable supports is sandbags, unless it is designed, crash tested, and approved for the specific device. Add a deicer during freezing conditions to prevent the sand from freezing. Place sandbags at the base of the sign or traffic control device. Do not use any ballast that causes a sign or traffic control device to become hazardous to motorists or workers.

S-58.3 CONSTRUCTION REQUIREMENTS

A Traffic Control Plan, Maintenance, and Inspection

A.1 Submit a proposed traffic control Plan to the Engineer for acceptance if traffic control is not present in the Plan, or if the Contractor modifies the traffic control Plan. Submit the proposed traffic control Plan at least seven days before implementation. If Field Manual layouts are used, specify layout number(s) but do not submit the layouts from the Field Manual. Do not implement the proposed traffic control modification until accepted by the Engineer.

A.2 Immediately repair or replace all traffic control devices that become damaged, moved or destroyed, and all ballasts that are damaged, destroyed, or otherwise fail to stabilize the device.

A.3 Meet the traffic control device quality standards as required in the Field Manual. Immediately replace unacceptable traffic control devices. Signs that are dirty and result in a noticeable loss of reflectivity at night are considered unacceptable and must be cleaned or replaced. Respond promptly to any call from the Engineer concerning the notification of unacceptable traffic control devices.

A.4 Provide the names, addresses, and phone numbers of at least three individuals responsible for placing and maintaining traffic control devices to the Engineer at the Pre-construction Conference. These individuals will be "on call" 24 hours per day, seven days per week during the times any temporary traffic control devices are in place.

A.5 Inspect all traffic control devices on a daily basis, including one nighttime inspection per week. Verify that the devices and pavement markings are placed in accordance with the Traffic Control Plan, these Special Provisions, and the MN MUTCD. Immediately correct discrepancies between the actual placement and the required placement. Respond immediately to any call from the Engineer concerning any request for improving or correcting traffic control devices.

A.6 Make a daily log of required inspections. This log must indicate the date and time any changes in the stages, phases, or portions go into effect. The log must identify the location and verify that the devices and pavement markings are placed as directed or corrected in accordance with the Plan. The

person making the inspection must sign the log and include the date and time of the entry. Provide copies of the inspection logs on a weekly basis and at the request of the Engineer.

B Traffic Control Signs and Devices

B.1 Roll-up signs are not allowed unless authorized by the Engineer.

B.2 Cover, modify, or remove all signs that are not consistent with traffic operations. Cover the entire sign or that part of the legend that is inappropriate. Sign covers must conform to the Typical Temporary Sign Covering Details Sheet found in the Plan or at the following link:
<http://www.dot.state.mn.us/trafficeng/workzone/wz-ltta/pdf/tempsigncover.pdf>

B.3 Maintain Street identification signage at all times. Signs may be installed on temporary supports if the permanent sign Structures are affected by operations. This is necessary to maintain the 911 emergency system.

B.4 Post mount all signs that will remain in the same location for more than 30 consecutive days. This does not include portable signs which are set up and taken down at the beginning and end of each Work shift.

When the proper location of a sign is on pavement, do not core through the surface. If there is a conflict with underground utilities, attempt to move the sign while maintaining its visibility to traffic. If it is not possible to drive posts into the ground, mount signs on portable supports as approved by the Engineer.

When signs are removed, the sign posts and stub posts must also be removed from the Right-of-way. Posts left in place for future use or removal at a later date must be properly delineated with tubular markers, flags, or other delineation as approved by the Engineer at no additional cost.

B.5 At the beginning of the Project, store at least 6 extra Type III barricades and 10 extra retroreflective drums to be used at the Engineer's discretion. Store the devices at a location approved by the Engineer.

If the Engineer orders additional devices, beyond the quantity specified above, the Department will compensate the Contractor according to S-57 (2562) ADDITIONAL TRAFFIC CONTROL DEVICES AND EXTENDED USE OF TRAFFIC CONTROL DEVICES.

C Traffic Safety

C.1 Do not suspend material, Equipment, tools or personnel over lanes or pedestrian facilities open to traffic.

C.2 Do not place Bridge deck concrete over lanes open to traffic or over active pedestrian facilities.

C.3 Protect traffic and pedestrians from excavations, drop-offs, falling objects, splatter or other potential construction hazards.

C.4 Do not store Materials or Equipment in the Work zone clear zone unless approved by the Engineer. If Materials or Equipment must be stored within the Work zone clear zone, protect with temporary barrier. If the Engineer agrees that temporary barrier is not practical, delineate with Type B channelizers.

C.5 Do not park vehicles or construction Equipment in the clear zone or any location that obstructs traffic control devices. Workers are not allowed to park their private vehicles within the Project limits unless approved by the Engineer.

C.6 Do not load or unload material or Equipment on the Shoulders of any Roadway without a full Shoulder closure using signs and channelizing devices shown on Layout 8 in the Field Manual.

D High Visibility Apparel

During night work or low light conditions, all workers must wear high visibility Class E long pants and retro-reflective headgear in addition to the ANSI Class 2 or 3 vest, shirt, or jacket.

All high visibility apparel must be worn in the manner for which it was designed. All apparel worn on the torso must be closed in the front to provide 360-degree visibility. A worker's high-visibility apparel must be removed from service and replaced if it becomes faded, worn, torn, dirty, or defaced, reducing the conspicuity of the apparel.

E Night Work

Night work is not permitted on this Project without prior approval of the Engineer.

OR (include if including PROSECUTION OF WORK (NIGHT CONSTRUCTION))

Coordinate with the requirements of S-X (1804) PROSECUTION OF WORK (LIMITATION OF OPERATIONS – NIGHT CONSTRUCTION). Meet all appropriate practices and requirements for work performed between the official hours of sunset and sunrise. Provide sufficient numbers of light plants to illuminate the work area and flagger stations. Mark heavy Equipment such as rollers, pavers, and mills, with two inch wide highly reflective vehicle conspicuity marking tape.

F Vehicle Warning Light Specification

All vehicles and Equipment operating in the trunk highway Right-of-way, must have operable warning lights that are amber in color and meet the appropriate SAE Specification. The SAE Specification requirements are as follows:

- (1) Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles- SAE Specification J845.
- (2) Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles - SAE Specification J595.

Details on SAE Specification can be found at: <http://www.dot.state.mn.us/const/wzs/lighting.html>

G Lane Closure Requirements

G.1 Temporary lane closures or other traffic restrictions by the Contractor, during work hours and consistent with the time restrictions, will be permitted only during those hours and at those locations approved by the Engineer. Request temporary lane closures at least 24 hours prior to such closures.

G.2 The Engineer may lengthen, shorten, or otherwise modify the following periods of restrictions as warranted by actual traffic conditions.

G.2.1 Temporary lane closures or other traffic restrictions will only be permitted between the official hours of sunrise and sunset.

G.3 Work that will restrict or interfere with traffic shall not be performed between 12:00 noon on the day preceding and 9:00 A.M. on the day following any consecutive combination of a Saturday, Sunday and legal holiday.

- G.4 Place traffic control devices in any temporary lane closure that is adjacent to traffic and extends beyond 1000 feet as shown on Layout 61 of the Field Manual. When the lane closure is in place three days or longer, use only Type III barricades.
- G.5 Use Drum Channelizers in all lane closure tapers and in any shifts in traffic alignment.
- G.6 No center lane closures will be permitted.
- G.7 Maintain a minimum of two miles between temporary lane closures.
- G.8 Temporary lane closures will not be permitted during inclement weather, nor any other time when, in the opinion of the Engineer, the lane closure will be a greater than normal hazard to traffic.
- G.9 When working on the Shoulder or median, provide traffic control according to Layout 8 (Work on Shoulder) of the Field Manual.

H Truck/Trailer Mounted Attenuators (TMAs) For Mobile/Short Duration Operations

Truck/Trailer Mounted Attenuators (TMA) must be used on all shadow and protection vehicles operating totally or partially in a Traffic Lane if any temporary traffic control zone is defined as "Mobile/Short Duration" by the Field Manual. All references to "should" in the Field Manual in regard to TMA use for Mobile/Short Duration layouts are hereby changed to "shall". This requirement applies to all operations utilizing Field Manual layouts 9, 10, 12, 13, 36, 41, 49, 50, 51, 54, 55, 63, 76, 77, 78, and 79. Providing TMAs for "Mobile/Short Duration" work zones is included in Traffic Control Lump Sum.

I Flagging Operations

I.1 Flaggers and Pilot Drivers must attend a training session taught by a MnDOT-Qualified Flagger Trainer. The trainer must have completed a "MnDOT Flagger Train the Trainer Session" within the last five years and be on file as a qualified Trainer with MnDOT. Provide all flaggers with the MnDOT Flagging Handbook. Flaggers must be in possession of the handbook while flagging on the Project. Furnish the signed "Checklist for Flagger Training" or "Flagger Qualification Card" to the Engineer any time a new flagger reports to work on the Project. The "Checklist for Flagger Training" and other forms and information is found at: <http://www.dot.state.mn.us/const/wzs/flagger.html>

Flaggers must be properly uniformed in the required high visibility apparel, including a high visibility hat. The high visibility hat can be substituted for a hard hat if the work site has a hard hat requirement.

I.2 All signs associated with the flagging operation must be removed or covered when flagging operations are not present.

I.3 Coordinate the flagging operations in a manner that causes minimum delay to the traveling public. The maximum delay time is 10 minutes. If the operation exceeds the maximum delay time, the operation must be discontinued until a new traffic control Plan is developed which meets the maximum delay requirement.

I.4 Furnish Flaggers in sufficient quantity to control each approach to the work area including intersecting crossroads that are open to traffic. All intersecting cross roads, at minimum, will require advance signing in accordance with layout 6K-19b of the Temporary Traffic Control Field Manual.

I.5 Provide flaggers as directed by the Engineer if hauling operations create hazards for the traveling public.

J Milling, Sealcoating, and Paving Operations

J.1 Schedule milling and bituminous paving operations so that milled areas will be covered with a wear course within 24 hours of completion of the milling.

J.2 When traffic is allowed to drive on the milled and newly paved surfaces, install interim striping and provide appropriate warning signs such as "GROOVED PAVEMENT" and "BUMP" with "Advisory Speed" plaques as shown on Layouts 35 and 66 of the Field Manual.

J.3 Taper and/or chamfer any drop-off where traffic will cross from or to the in-place surface, or from or to the milled surface, so as to provide for the safe passage of traffic.

J.4 Schedule construction operations to minimize traffic exposure to uneven lanes, milled edges, and edge drop-offs. If these conditions cannot be avoided, provide and maintain the appropriate traffic control in accordance with the "LONGITUDINAL DROP OFF GUIDELINES" in the Field Manual.

J.5 Do not mill any notches for surfacing tapers until immediately prior to paving. The Engineer may allow notches if temporary bituminous is installed and maintained to provide for the safe passage of traffic until the surfacing is completed. Constructing and milling tapers and/or chamfers is included in the Pay Item 2563.601 TRAFFIC CONTROL.

J.6 Maintain traffic with a minimum of delay during milling and paving operations at Intersections controlled by signals or by all-way stop signs. Provide off-duty police officers to direct and control traffic at Intersections with fully operating traffic control signal systems. See S-X (2563) POLICE OFFICER for specific requirements, measurement, and payment information.

J.7 Intersecting Streets, other than Intersections controlled by signals or all-way stop signs, may be closed during milling and paving operations in the Intersection if there are adequate alternate routes for the intersecting Street traffic. Do not close adjacent intersecting Streets to traffic concurrently. Notify the local Road authorities of its schedule to close intersecting Streets 48 hours in advance of the closure.

K Maintenance and Staging of Traffic Control

K.1 Maintain the existing traffic movements at the following Intersections: Seelye Brook Drive NW; Quicksilver Street NW; and Nacre Street NW.

K.2 Pedestrian traffic must be maintained and guided through the Project at all times.

K.3 Maintain a minimum lane width of 11 feet on all Roadways. Traffic must not be allowed or forced onto the Shoulders without prior approval of the Engineer.

K.4 Parking may be banned within the construction limits. Notify the City of St. Francis insert the contact person's name, phone number insert phone number at least 24 hours prior to posting any parking ban within the City. Provide and install the necessary signing 24 hours prior to the parking ban. Remove signs as soon as the work in the area has been completed.

K.5 Access to and from the Project Site is subject to approval by the Engineer.

K.6 Keep the Right of Way fence closed during non-working hours.

S-58.4 METHOD OF MEASUREMENT

All traffic control required to complete the Project as shown in the Plans and specified in these Special Provisions will be made as a lump sum payment under Item 2563.601 (Traffic Control). Payment includes all costs associated with furnishing, installing, maintaining, relocating and subsequently removing traffic control devices (including flaggers) as required. No additional measurement for payment will be made for individual activities and devices that constitute Traffic Control, except for other traffic control Bid items specifically listed in the Statement of Estimated Quantities.

Traffic Control layouts and devices not shown in the Plan or stated in these Special Provisions, that are necessary to facilitate traffic switches or for transitioning traffic from one stage to another, are included in the lump sum traffic control item. If the Contractor requests a change in traffic control and these changes are implemented, there will be no increase or decrease in the lump sum payment for traffic control. If the Engineer orders a change in traffic control because of a Plan error, omission, changed condition or change of Project scope, payment for such changes will be made as Extra Work.

If the Contractor fails to properly provide, install, maintain, or remove any of the required traffic control devices, the Department may correct the deficiency and to deduct the costs from any moneys due or becoming due to the Contractor in accordance with MnDOT 1512, "Unacceptable and Unauthorized Work".

S-58.5 BASIS OF PAYMENT

Partial payments for lump sum Item 2563.601 (Traffic Control) will be made as follows:

Table SP2563-2
Traffic Control Partial Payments

Percent of Original Contract Completed	Pay this Percentage of Traffic Control
5	50
10	75
50	95
All Work Completed And All Traffic Control Removed	100

A Monetary Price Adjustments

The Department must apply incentives and disincentives and may apply monetary deductions for (2563) Traffic Control. The amounts of these adjustments are deemed reasonable.

If the Contractor fails to adhere to the established time schedules, the Department may assess a monetary adjustment of \$1,500.00 per hour for each hour or portion of an hour that the Engineer determines that the Contractor has not complied.

B Schedule

The Contract Unit Price for Traffic Control is compensation in full for Equipment, Materials and labor required to complete the Work.

The Department will pay for Traffic Control on the basis of the following schedule:

Item No.	Item	Unit
2563.601	Traffic Control	Lump Sum

S-59 (2573) STORM WATER MANAGEMENT

REVISED 04/14/23

SP2020-215

S-59.1 Add the following to MnDOT 2573.5:

I Unit Prices

In addition to stormwater management Pay Items included in the Plan, the Engineer may require the items listed below. Payment for additional items as ordered by the Engineer will be made in accordance with the following schedule:

Wheel Wash off.....	\$5000.00/each
Flocculant Sock (250,000 gal. treatment vol.).....	\$265.00 each
Bale Barrier.....	\$8.00/foot
Silt Fence, Type HI.....	\$4.50/foot
Silt Fence, Type SD.....	\$30.00/foot
Silt Fence, Type MS.....	\$2.75/foot
Flotation Silt Curtain, Type: Moving, 1.2 m (4 foot) depth.....	\$22.50/foot
Sediment Control Log, Type Wood Fiber.....	\$4.00/foot
Sediment Control Log, Type Compost.....	\$4.00/foot
Sediment Control Log, Type Rock.....	\$12.00/foot
Sediment Trap Excavation.....	\$10.00/cubic yard
Sandbag Barrier.....	\$15.00/square foot
Sand Tote Bag.....	\$75.00/each
Sediment Removal, Backhoe.....	\$240.00/hour
Sediment Removal, Vacuum truck.....	\$425.00/hour
Temporary Slope Drain (18" diameter).....	\$100.00/linear foot
Water Treatment Type Sediment Tank.....	\$20,250.00/each

S-60 (2574) SOIL PREPARATION

RESTORED 06/30/23

SP2020-217

S-60.1 Add the following to MnDOT 2574.5:

C. Unit Prices

In addition to soil preparation Pay Items included in the Plan, the Engineer may require the items listed below as site conditions warrant (provided the items listed below are not already included in the Plan). Payment for additional items as ordered by the Engineer will be made in accordance with the following schedule:

Subsoiling.....	\$300.00/acre
Soil Bed Preparation.....	\$350.00/acre
Soil Tracking.....	\$2,500.00/acre

S-61 (2575) ESTABLISHING VEGETATION AND CONTROLLING EROSION

RESTORED AND REVISED 06/30/23

SP2020-218

S-61.1 Add the following to MnDOT 2575.5:

L Unit Prices

In addition to the erosion control Pay Items included in the Plan, the Engineer may require the items listed below as site conditions warrant (provided the items below are not already included in the Plan). Payment for additional items as ordered by the Engineer will be made in accordance with the following schedule:

Disc Anchoring	\$100.00/acre
Mulch Material, Type 1.....	\$250.00/ton

Seed Mixtures (for temporary use)

21-111 or 21-112	\$1.90/pound
21-113.....	\$2.25/pound
22-111.....	\$4.50/pound
32-241.....	\$36.00/pound
34-171.....	\$65.00/pound

Erosion Control Blanket

Category 25.....	\$2.40/square yard
Category 30.....	\$2.25/square yard
Category 72.....	\$11.00/square yard

Rapid Stabilization

Method 1	\$1,000.00/acre
Method 2	\$1,300.00/acre
Method 3	\$600.00/M Gallon
Method 4	\$1.75/square yard
Hydraulic Stabilized Fiber Matrix.....	\$1.00/pound
Hydraulic Reinforced Fiber Matrix.....	\$2.00/pound
Temporary Poly (Fiber Reinforced) Covering	\$5.00/square yard
Temporary Geotextile Covering.....	\$7.00/square yard
Water	\$31.00/M Gallon
Mowing (Hand Whip)	\$100.00/hour
Mowing (Machine)	\$300.00/acre
Weed Spraying.....	\$150.00/acre

M Sod

The Contract Unit Price for sod includes maintenance as described in 2575.3 K.1 during the 30 day maintenance period and during any extension to the maintenance period due to sod replacements. The Contract Unit Price for sod does not include additional watering or maintenance ordered by the Engineer after the 30 day maintenance period or after any extension in the maintenance period due to sod replacements, whichever is longer.

S-62 (2575) ESTABLISHING VEGETATION AND CONTROLLING EROSION (HYDRAULIC MATRIX)

SP2020-219

S-62.1 Add the following to MnDOT 2575.3E.2:

On Projects with a DNR Public Waters Permit that have Hydraulic Mulch Matrix, Stabilized Fiber Matrix, Bonded Fiber Matrix, or Reinforced Fiber Matrix provide a Manufacturers Letter of Certification certifying that the Hydraulic Matrix product does not contain any plastic fiber material. Submit letter and provide time for review and acceptance prior to product installation.

S-62.2 Add the following to MnDOT 2575.3M:

On Projects with a DNR Public Waters Permit that have Rapid Stabilization Method 2 or Rapid Stabilization Method 3 Provide a Manufacturers Letter of Certification certifying that the Hydraulic Matrix product does not contain any plastic fiber material. Submit letter and provide time for review and acceptance prior to product installation.

S-63 (2582) PAVEMENT MARKINGS

REVISED 09/29/23

SP2020-224

S-63.1 Add the following to MnDOT 2582.2:

For pavement marking installations between the dates of October 15 and April 1, provide and use pavement marking Materials listed on the "Late Season Pavement Marking Materials" APL.

S-63.2 Delete and replace the fourth paragraph of MnDOT 2582.3B.7.b with :

For Pref Tape Gr In provide a recess depth between 150 mil to 200 mil. For Pref Thermo Gr In provide a recess depth of 110 mil ± 10 mil.

S-63.3 Delete and replace MnDOT 2582.3C.3 with :

C.3 Retroreflectivity

Initial pavement marking retroreflectivity is defined as the pavement marking dry and wet retroreflectivity when measured between 14 Calendar Days and 44 Calendar Days after pavement marking installation, prior to snow and ice maintenance operations.

C.3.1 Dry Retroreflectivity

Provide pavement markings meeting the following minimum initial pavement marking dry retroreflectivity when tested using 30-meter geometry in accordance with *ASTM E1710, Standard Test Method for Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer*.

Table 2582.3-2
Minimum Initial Pavement Marking Dry Retroreflectivity

	White	Yellow
Pref Tape	600 millicandela/square meter/lux	500 millicandela/square meter/lux
Pref Thermo	300 millicandela/square meter/lux	200 millicandela/square meter/lux
Pref Thermo, ESR (Enhanced Skid Resistance)	250 millicandela/square meter/lux	150 millicandela/square meter/lux
Multi Comp	300 millicandela/square meter/lux	200 millicandela/square meter/lux
Paint	275 millicandela/square meter/lux	180 millicandela/square meter/lux

C.3.2 Wet Retroreflectivity

When recessed, provide linear pavement markings in the field meeting minimum initial pavement marking wet retroreflectivity as listed in Table 2582.3-2A in accordance with *ASTM E 2832, Standard Test Method for Measuring the Coefficient of Retroreflected Luminance of Pavement Markings in a Standard Condition of Continuous Wetting*.

Table 2582.3-2A
Minimum Initial Pavement Marking Wet Retroreflectivity

	White	Yellow
All Materials	200 millicandela/square meter/lux	200 millicandela/square meter/lux

S-64 (2582) PAVEMENT MARKINGS (SPOTTING METHOD AND WR)

REVISED 06/30/23

SP2020-224.1

S-64.1 Add the following to MnDOT 2582.3B:

Obtain acceptance from the Engineer prior to using longitudinal joints, pavement edges and existing marking as horizontal control. Provide marking related lane closures and traffic control. Locate points to provide horizontal control for permanent and temporary pavement markings. Prior to placing pavement markings, obtain acceptance of proposed locations from the Engineer.

S-64.2 Delete and replace the third paragraph of MnDOT 2582.3B.8 with:

For WR markings, apply wet reflective media per manufacturer’s specifications and apply the Utah Blend beads specified in 3592.B.2 “Utah Blend” Gradation as the second drop glass bead.

S-65 (3107) MASONRY MORTAR

RESTORED 06/30/23

SP2020-225.1

S-65.1 Delete and replace MnDOT 3107 with the following:

3107.1 SCOPE
 Provide masonry mortar for use in utility/sewer and other applications.

3107.2 REQUIREMENTS

A. Utility/Sewer Application

Provide a preblended, dry, air-entrained, bagged mortar mix designed for utility/sewer applications from the approved source listed on the *Approved/Qualified Products List*, meeting the requirements of *ASTM C270, Standard Specification for Mortar for Unit Masonry*, and *ASTM C1714, Standard Specification for Preblended Dry Mortar Mix*.

Mix the preblended bagged mortar mixture onsite for the minimum time stated by the manufacturer. Do not exceed the manufacturer allowable mixing water. If the manufacturer does not recommend a minimum mixing time, mix the preblended bagged mortar mixture for a minimum of 5 minutes. The Engineer will not allow retempering the mortar mixture and will reject mortar mixtures not placed within 60 minutes of mixing.

B. Applications Other Than Utility/Sewer

For applications other than for utility/sewer, provide masonry mortar in accordance with *ASTM C270, Standard Specification for Mortar for Unit Masonry*, based on the type of mortar required by the Contract. Mix in accordance with the manufacturer’s recommendations.

For site mixed masonry mortar using bagged masonry cement, submit to the Engineer a statement of compliance meeting the requirements of *ASTM C91, Standard Specification for Masonry Cement*. Label the type of masonry cement, either Type S or Type M, on each bag.

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 57

S.A.P. # 002-628-008

3107.3 SAMPLING AND TESTING

Provide samples for site mixed masonry mortar as required by the Contract.

S-66 (3113) ADMIXTURES FOR CONCRETE**RESTORED 06/30/23**SP2020-226

S-66.1 Delete and replace MnDOT 3113.2A with the following:

Provide Class I admixtures from the Approved Products List meeting the requirements of *ASTM C494, Standard Specification for Chemical Admixtures for Concrete*.

Department identifies the following as Class I admixtures:

- (1) Type A — Water reducing
- (2) Type B — Retarding
- (3) Type C — Accelerating
- (4) Type D — Water reducing and retarding
- (5) Type E — Water reducing and accelerating
- (6) Type F — Water reducing, high range
- (7) Type G — Water reducing, high range and retarding
- (8) Type S — Specific performance admixtures

Provide Class II air-entraining admixtures from the Approved Products List meeting the requirements of *AASHTO M 154, Standard Specification for Air-Entraining Admixtures for Concrete*, except the tests for bleeding, bond strength, and volume change are not required.

Provide Class III corrosion inhibiting chloride admixtures from the Approved Products List meeting the requirements of *ASTM C1582, Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete*.

S-67 (3131) INTERMEDIATE AGGREGATE FOR PORTLAND CEMENT CONCRETE**NEW 09/29/23**SP2020-226.1

S-67.1 Add the following to the first paragraph of MnDOT 3131.2D:

If the CIA is <15 percent of the total aggregate in the mix, Table 3137.2-3(b) is modified to a maximum of 50.0 percent by weight of Carbonate in Class C aggregate.

S-68 (3138) AGGREGATE FOR SURFACE AND BASE COURSES**RESTORED 06/30/23**SP2020-227

S-68.1 Add the following to MnDOT 3138.2C:

- (3) When mixing recycled Aggregate with virgin Aggregate, the minimum Los Angeles Rattler of Carbonate virgin Aggregate is 40%. Meet all other virgin Aggregate requirements in 3138.2B, "Virgin Materials".

S-68.2 Add the following note under Table 3138.2-3 of MnDOT 3138.2E:

For 100% crushed quarried class 5 aggregate, the required passing the number 4 sieve is 30 – 80, the required passing the number 10 sieve is 15 – 65, the required passing the number 40 sieve is 7 – 35, and the required

passing the Number 200 sieve is 3.0 – 12.0. The 1-1/2 inch, 3/4 inch, and 3/8 inch requirements for crushed quarried class 5 aggregate are the same as in Table 3138.2-3.

S-69 (3236) REINFORCED CONCRETE PIPE

RESTORED 06/30/23

SP2020-229

S-69.1 Delete and replace Table 3236.3-1 of MnDOT 3236.3C.2 with the following:

Table 3236.3-1 1
Minimum Three Edge Bearing Testing Rates

Size Range, inch	Class Range	Test Rates
12 – 15	≤ 5	1 per 1000 pieces
18 – 36	≤ 4	1 per 800 pieces
18 – 36	5	1 per 400 pieces
42 – 60	≤ 3	1 per 400 pieces
42 – 60	4 & 5	1 per 200 pieces
66 – 96	≤ 5	1 per 200 pieces

NOTE: Testing rates for sizes not shown are as required by the Project Specifications. Begin a new schedule of testing after changing the mix design, after shutting down the system for major repairs and renovations, when beginning a new production run, and when beginning a new season. These rates are for testing to the 0.01 in D-load. Testing to failure is required on each combination of pipe size, wall thickness, and class manufactured once per production year. For arch pipe smaller than 88-inches nominal span, one piece per year of each size and class manufactured is required to be tested to 0.01 in D-load. Besides, testing to failure is required for arch pipe smaller than 88-inches nominal span on each combination of pipe size and class manufactured once per production year.

S-69.2 Delete and replace MnDOT 3236.2A with the following:

A. Materials

A.1	Aggregate Quality	3126, 3131 and 3137
A.2	Form Release Agents	3902
A.3	Portland Cement	3101
	The Department will allow admixtures in accordance with 2462, "Precast Concrete."	
A.4	Blended Hydraulic Cement	3103
A.5	Fly Ash for Use in Portland cement concrete	3115
A.6	Ground Granulated Blast Furnace Slag Cement	3102
A.7	Precast Concrete	2462
A.8	Metal Reinforcement	2472
A.9	Preformed Gasket Seals for Concrete Pipe	3726
A.10	Precast Concrete Manufacturing	3240

S-69.3 Add the following to MnDOT 3236.2D:

Manufacturers of reinforced concrete pipe may produce an alternate "offset joint" on the spigot end of the pipe. This type of offset joint is to be used with the profile or pre-lubricated pipe seal systems. See MnDOT Standard Plate 3006.

S-70 (3238) PRECAST CONCRETE BOX CULVERTS

RESTORED 06/30/23

SP2020-229.1

S-70.1 Add the following to MnDOT 3238.2B:

B.3	Welded Wire Reinforcement	3303
-----	---------------------------------	------

S-70.2 Delete and replace MnDOT 3238.2I with the following:

I. Certified Plant Requirement

Provide precast concrete box culverts, end sections, and appurtenances constructed in a precast concrete fabrication plant certified by the American Concrete Pipe Association, the National Precast Concrete Association, or another organization approved by the Materials Engineer. If requested, provide quality control and plant certification records to the Materials Engineer.

S-70.3 Add the following to MnDOT 3238.2:

J. Tolerances

Dimensional tolerances will be based on AASHTO M 259, "Standard Specification for Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers".

S-71 (3401) STEEL FLANGED CHANNEL SIGN POSTS

Posts shall be steel, 3 pounds per foot and when installed in County right-of-way shall be detailed as below:

S-71.1 Material

The steel used in the manufacture of posts shall be rerolled rail steel or a comparable new billet steel. The steel shall conform to the mechanical requirements of ASTM A 499, Grade 60 and to the chemical requirements of ASTM A 1 for rails having nominal mass of 91 pounds per yard of length or heavier.

S-71.2 Length

The length of the posts shall be as determined by the Contractor and as approved by the Engineer in accordance with the details shown in the Plans and with the minimum sign panel mounting height guidelines noted in the Plans and in these Special Provisions.

S-71.3 Shape and Dimension

The posts shall be of channel or modified channel section with flanges against which the sign will be placed. The front face of the flanges shall be flat and in the same plane so as to provide smooth, uniform bearing for the sign. The back of the posts shall be flat and parallel to the front. The cross section of the posts shall be symmetrical about the central axis perpendicular to the front and back.

The posts shall be straight, free from excessive bow, twist, and other injurious or unsightly defects.

Depth overall, front to back, shall not exceed 1.80 inches for any of the posts. Width overall across the front shall not exceed 3-5/8" for any of the posts.

S-71.4 Punching

The posts shall have 7/16 inch holes punched along the centerline of the back on one or three inch centers (as specified on the quantity sheet) for the full length of post beginning approximately 1 inch or 1-1/2 inch from the top. The holes shall be accurately spaced so that the distance between the centers of any two holes will vary more than 1/16 inch from a multiple of 3 inches.

S-71.5 Finish

The black painted posts shall be painted with a weather-resistant, rust inhibitive, high quality enamel such that it will produce a uniform, hard, mar resistant coating, free from paint cracks, blisters, thin spots or other defects. The color of the paint coating shall be black.

S-71.6 Fasteners

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 60

S.A.P. # 002-628-008

Fasteners for this proposal are to be Grade 5 zinc plated conforming to Mn/DOT Std. Spec. 3391.2A for Common Structural Steel Bots.

The sign face hardware bid item shall include a 5/16-inch x 2-1/2-inch hex head cap bolt (threaded full length), self-locking hex head nut. If the nesting of the posts supplied requires longer bolts, they shall be provided at the same price in lieu of the 1-1/2-inch length.

S-72 (3491) PRESERVATIVES AND PRESERVATIVE TREATMENT OF WOOD PRODUCTS**RESTORED 06/30/23**SP2020-231

S-72.1 Add the following to the last paragraph of MnDOT 3491.2C:

No field treatment shall be applied within 100 feet of surface water, and any spills must be collected and properly disposed of.

S-73 (3601) RIPRAP MATERIAL**RESTORED 06/30/23**SP2020-232

S-73.1 Add the following to MnDOT 3601.2:

F. Geotextile Filter Material

Provide geotextile filter material, meeting the requirements of 3733 and the following:

- (1) Type 3 for use under Class I and Class II random riprap
- (2) Type 4 for use under Class III and Class IV random riprap and hand-placed riprap on slopes no steeper than 3:1, horizontal to vertical
- (3) Type 7 for use under Class III and Class IV random riprap on slopes steeper than 3:1, horizontal to vertical, and under Class V random riprap

S-73.2 Add the following to MnDOT 3601.3:

An approved Quality Control Program is required for riprap derived from Carbonate quarries if used for Bridge protection or quantities greater than 100 cubic yards. The Quality Control program is administered by the MnDOT Geology Unit.

S-74 (3733) GEOSYNTHETIC MATERIALS**RESTORED AND REVISED 06/30/23**SP2020-233

S-74.1 Delete and replace MnDOT 3733.2B with the following:

Provide geotextiles made from woven, nonwoven, or knit fabric of polymeric filaments or yarns, such as polypropylene, polyethylene, polyester, or polyamide. Except for Type 1b (knit sock), provide geotextiles in compliance with the National Transportation Product Evaluation Program (NTPEP).

For Types 1, 3-13 meet the applicable requirements in Table 3733.2-1 through Table 3733.2-4.

**Table 3733.2-1
Geotextile Properties for Types 1, 3, 4, 5, 6, 7**

Geotextile Property	ASTM Test Method Units	Type *						
		1		3	4	5	6	7 †
		Fabric	Knit sock					
B1 Grab Tensile Strength minimum, each principal direction	D4632 Pounds	100	—	100	200	200	‡	300
B2 Elongation minimum, each principal direction	D4632 Percent	—	—	50	50	—	‡	50
B3 Seam Breaking Strength minimum #	D4632 Pounds	90	—	90	180	180	‡	270
B4 Apparent Opening Size (AOS) §	D4751 U.S. Sieve	40	40 as applied	50	50	30	20	50
B5 Permittivity minimum**	D4491 sec ⁻¹	0.7	2.75 relaxed	0.5	0.5	0.05	0.05	0.5
B6 Puncture strength minimum	D6241 Pounds	—	180	—	—	—	—	—
B7 Wide Width Strip Tensile Strength minimum each principal direction	D4595 pounds/feet	—	—	—	—	—	‡	—

* Minimum Average Roll Values (MARV) based on an average of at least three tests per swatch.

|| Provide socks made of knit polymeric Materials and meeting the requirements of *ASTM D6707-06, Standard Specification for Circular-Knit Geotextile for Use in Subsurface Drainage Applications*, for Type H as given for properties B4, B5, and B6 fabric. Ensure the sock exhibits minimum snag or run potential, is factory-applied to maintain uniform installed mass, and conforms to the outside diameter of the tubing with a snug fit.

† Needle-punched nonwoven. Do not use thermally bonded (heat-set) fabric.

‡ Requirements are site-specific and will be as specified in the Contract. The property values for B1 and B3 may not be less than shown for Type 5. If the Contract does not specify either B1 or B7, use a default value of 300 pounds for B1. If the Contract does not specify seam strength, use a default value of 270 pounds for B3.

Adhere to this requirement if the Contract requires or allows seams. Strength Specifications apply to factory and field seams. Use thread for sewing that has the strength of at least 25 pounds. Sew seams with a Federal Type 401 stitch (*ASTM D6193-16, Standard Practices for Stiches and Seams*) using a two-spool sewing machine and install seams facing upward. For seaming with adhesives, see the *Approved/Qualified Products List* available on the Department’s website.

§ For U.S. Sieve sizes, the AOS Number must be equal to or greater than the Sieve size specified.

** Permittivity: P = K/L, where K = fabric permeability and L = fabric thickness.

Table 3733.2-2
Type 8 Geotextile Properties

Property	Requirements	Test Procedure
Geotextile type	Nonwoven, needle-punched geotextile, no thermal treatment (calendering or IR)	Manufacturer Certificate of Compliance
Color	Uniform/Nominally same-color fibers	Visual Inspection
Mass per unit area	≥ 14.7 ounce/square yard	ASTM D5261*
Thickness under load (pressure)	At 0.29 psi: ≥ 0.12 inches At 2.9 psi: ≥ 0.10 inches At 29 psi: ≥ 0.04 inches	ASTM D5199
Wide-width tensile strength	≥ 685 pounds/feet	ASTM D4595†
Wide-width maximum elongation	≤ 130 percent	ASTM D4595†
Water permeability in normal direction under load (pressure)	At 2.9 psi: ≥ 3.3x10 ⁻⁴ feet/second	ASTM D5493 MnDOT Modified‡ or ASTM D4491#
In-plane water permeability (transmissivity) under load (pressure)	At 2.9 psi: ≥ 1.6x10 ⁻³ feet/second At 29 psi: ≥ 6.6x10 ⁻⁴ feet/second	ASTM D6574 MnDOT Modified§ or ASTM D4716**
Weather resistance	Retained strength ≥ 60 percent	ASTM D4355 at 500 hours exposure
Alkali resistance	≥ 96 percent polypropylene/polyethylene	Manufacturer certification of polymer

Table 3733.2-3
Types 9, 10, 11, and 12 Geotextile Properties

Properties	Test Method	Unit	Type 9		Type 11		Type 12	
			Minimum Average Roll Value					
			MD	CD	MD	CD	MD	CD
Tensile Strength at Ultimate	ASTM D4595	lbs/ft	3,500	3,200				
Tensile Strength @ 2% Strain	ASTM D4595	lbs/ft			600	1,000	480	1,800
Tensile Strength @ 5% Strain	ASTM D4595	lbs/ft			1,800	2,200	1,400	4,300
Cyclic Tensile Modulus @ 2% Strain	ASTM D7556 "Method C"	lbs/ft			50,000	70,000	50,000	120,000
Interaction Coefficient: Ci*	ASTM D6706				0.89		0.90	
Properties	Test Method	Unit	Maximum Roll Value					
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve	30		40		40	
Properties	Test Method	Unit	Minimum Average Roll Value					
Permittivity	ASTM D4491	sec ⁻¹	0.5		0.90		1.0	
Flow Rate	ASTM D4491	gal/min/ft ²	40		75		75	
Properties	Test Method	Unit	Minimum Roll Value					
UV Resistance (at 500 hours exposure)	ASTM D4355	% Strength Retained	70		90		90	
Seam Breaking Strength	ASTM D4884	Pounds/inch	200					

For Type 10, meet the requirements of AASHTO M288 Class 4A – Geotextile.

Properties	Test Method	Unit	Type 9		Type 11		Type 12	
			Minimum Average Roll Value					
			MD	CD	MD	CD	MD	CD
* Perform test with a normal pressure of 1.0 psi. Use material in the mold consisting of GW or SP with a maximum internal angle of friction of 34 degrees. If required, use thread with a minimum strength of 25 pounds. Sew seams with a <i>ASTM D6193</i> Federal Type 401 stitch using a two-spool sewing machine, and install seams facing upward.								

Table 3733.2-4
Type 13 Geotextile Properties

Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Wide Width Max Elongation	ASTM D4595	%	20	
Permittivity	ASTM D4491	Sec ⁻¹	0.4	
Minimum wet front movement in vertical direction	ASTM 1559 (modified for geotextiles)	Inches	4	
Minimum wet front movement in horizontal direction:	ASTM 1559 (modified for geotextiles)	Inches	70	
Wide Width Tensile Strength	ASTM D4595	lbs/Ft	5000	
Wide Width Tensile Strength @2% Strain	ASTM D4595	lbs/Ft	450 MD and 1000 CD	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve	40 Maximum Opening Size	
Flow Rate	D4491	Gal/Min/ft ²	30 MARV	

S-74.2 Renumber Table 3733.2-4, "Geogrid Properties" of MnDOT 3733.2C to Table 3733.2-5, "Geogrid Properties".

S-75 (3885) ROLLED EROSION PREVENTION PRODUCTS

RESTORED AND REVISED 06/30/23

SP2020-234

S-75.1 Delete and replace Tables 3885.2-1, 3885.2-2, and 3885.2-5 of MnDOT 3885.2A with the following:

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 64

S.A.P. # 002-628-008

**Table 3885.2-1
Temporary, Straw-based Products**

Criteria	Category 10	Category 20	Category 30
Net Number (upper/lower)	1	2	2
Fiber Fill Material	100 percent Straw	100 percent Straw	70 percent Straw, 30 percent Coconut/hemp
Mass, minimum* ‡ (pound per square yard)	0.43	0.43	0.42
Reported Fiber Length, 80 percent greater than (inch)	3	3	3
Reported Functional Longevity, 75 percent remaining (month)	3	4.5	9
Reported Target Service Life (month)	4	9	12
Permissible shear, unvegetated# (pound per square foot)	1.50	1.75	2.00
Flow, probable maximum# (feet per second)	4.5	6	8
Machine Direction (MD) Tensile Strength, minimum§ (pounds per foot)	70	160	160
TD Tensile Strength, minimum§ (pounds per foot)	50	110	150
Permissible Anchor Type	Wood or biodegradable plant-based plastic barbed, glue, U, or round head metal, 11-13 gage	U or round head metal, 11-13 gage, Washer/60D (6 inches) Nail†	Helical twist pin, Washer/60D (6 inches) Nail†
Minimum anchor embedment length	4 inches	6 inches	8 inches

* Dry mass at the time of manufacture following ASTM protocols.

|| Biodegradable means the product will decompose under ambient soil conditions into carbon dioxide, water, and other naturally occurring materials within one year of installation.

† Winter Utilization.

‡ ASTM D6475, Mass per Unit Area of Erosion Control Blankets.

ASTM D6460, Performance in Protecting Earthen Channels from Stormwater-Induced Erosion.

§ ASTM D6818, Ultimate Tensile Properties of Rolled Erosion Control Products.

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 65

S.A.P. # 002-628-008

**Table 3885.2-2
Temporary, Wood Fiber Based Products**

Criteria	Category 15	Category 25	Category 35	Category 45
Net Number (upper/lower)	Netless	2	2	2
Fiber Fill Material	100 percent Cellulose, Agricultural products, hemp, wood	100 percent Wood* Fiber	100 percent Wood* Fiber	100 percent Wood* Fiber
Mass, minimum # (pound per square yard)	0.40	0.57	0.76	1.25
Reported Fiber Length, 80 percent greater than (inch)	Varies, 0.5 to 6	6	6	6
Reported Functional Longevity, 75 percent remaining (month)	1.5	6	12	24
Reported Target Service Life (month)	3	12	24	36
Permissible shear, unvegetated§ (pound per square foot)	1.00	2.10	2.50	3.25
Flow, probable maximum§ (feet per second)	2	7	8	11
MD Tensile Strength, minimum** (pounds per foot)	4	160	160	160
TD Tensile Strength, minimum** (pounds per foot)	4	110	110	110

SPECIAL PROVISIONS - SP2020 BOOK

Last Revision by CO Special Provisions: December 29, 2023

Created July 31, 2021

Page 66

S.A.P. # 002-628-008

Criteria	Category 15	Category 25	Category 35	Category 45
Permissible Anchor Type	Wood or biodegradable† plant-based plastic barbed, glue U or round head metal 11-13 gage	U or round head metal, 11-13 gage, Washer/60D (6 inches) Nail‡	Helical twist pin, Washer/60D (6 inches) Nail‡	Helical twist pin, Washer/60D (6 inches) Nail‡
Minimum anchor embedment length	4 inches	6 inches	8 inches	10 inches

* Derived from hardwood (Aspen spp.) or softwoods (pine).

|| Dry mass at the time of manufacture following ASTM protocols.

† Biodegradable means the product will decompose under ambient soil conditions into carbon dioxide, water, and other naturally occurring materials within one year of installation.

‡ Winter Utilization.

ASTM D6475, *Mass per Unit Area of Erosion Control Blankets*.

§ ASTM D6460, *Performance in Protecting Earthen Channels from Stormwater-Induced Erosion*.

** ASTM D6818, *Ultimate Tensile Properties of Rolled Erosion Control Products*.

Table 3885.2-5
Permanent, Synthetic-based, Soil or Organic Fiber Media Filled Products

Criteria	Category 70	Category 72	Category 74	Category 76
Net Number* (upper/lower)	TRM	TRM	TRM	TRM
Fill Material	3877.2C "Sandy Clay Loam Topsoil Borrow," 3890.2B "Grade 2 Compost" 3884.2B.1 "Organic Fiber Matrix (OFM)"			
Mass, minimum † (pound per square yard)	0.5	0.5	0.5	1.2
80 percent test chamber strength retained ‡ (hours)	500	1000	3000	3000
Target Service Life ‡	Permanent	Permanent	Permanent	Permanent
Shear, unvegetated, minimum # (pound per square foot)	2.00	2.25	2.50	2.75
Shear, vegetated, minimum # (pound per square foot)	6	8	10	12
MD Tensile Strength, minimum § (pounds per foot)	150	240	1400	3000
TD Tensile Strength, minimum § (pounds per foot)	130	200	1100	3000
Permissible Anchor Type	Helical twist metal hooks, Hooked No. 4 rebar, tension cable	Helical twist metal hooks, Hooked No. 4 rebar, tension cable	Tension cable per manufacturer specification	Tension cable per manufacturer specification
Minimum anchor embedment length ##	18 inches	18 inches	18 inches	18 inches

*Provide mats with cells at least 3/8 – 3/4 inch in depth to allow soil filling and retention, composed of nylon, polypropylene, polyolefin, polyester, or rust inhibited metal.
 || See 2575 "Establishing Vegetation and Controlling Erosion" for approximate fill quantities to achieve a 0.5 – 1 inch layer filling all voids within product surface.
 † ASTM D6566 Mass Per Unit Area of Turf Reinforcement Mats
 ‡ ASTM D4355 Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc-Type Apparatus
 # ASTM D6460 Performance in Protecting Earthen Channels from Stormwater-Induced Erosion. Provide either vegetated or un-vegetated test results showing product meets the minimum criteria for that test. Some data may be extrapolated to show the upper value for vegetation establishment.
 ## Minimum anchor embedment length may be reduced for anchors that are an alternative to straight pins or to account for site specific soil conditions.
 § ASTM D6818 Ultimate Tensile Properties of Rolled Erosion Control Products
 TRM products must have an average opening size sufficient for allowing introduction of soil or organic growth medium fill and to allow plant roots and shoots to grow through. Product texture must be rough enough to prevent soil from sliding off.

S-76 (3886) SILT FENCE

RESTORED 06/30/23

SP2020-235

S-76.1 Delete and replace Table 3886.2-1 of MnDOT 3886.2A with the following:

Table 3886.2-1
Silt Fence Requirements

Silt Fence Type	Minimum Width, inches	Grab Tensile (machine direction), pounds *	Apparent Opening Size	Puncture Strength †	UV Stability, 500 hour, percent ‡	MAX Permittivity #	Maximum Flow Rates, GPM/square foot
MS, HI woven geotextile §	36	130	No. 30 Sieve	—	70	1.0 s ⁻¹	130
PA woven geotextile	36	100	No. 30 Sieve	—	70	0.1 s ⁻¹	5
SD woven or nonwoven geotextile **	36	100	—	—	70	—	—
TB polyester or polyvinyl Fabric	60	200	—	90 pounds	70	0	0

Values in the table are Minimum Average Roll Values (MARV).

* ASTM D4632, Standard Test Method for Grab Breaking Load and Elongation of Geotextiles.

|| ASTM D4751, Standard Test Methods for Determining Apparent Opening Size of a Geotextile, Maximum average roll value.

† ASTM D4833, Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products.

‡ ASTM D4355, Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture, and Heat in a Xenon Arc-Type Apparatus.

ASTM D4491, Standard Test Methods for Water Permeability of Geotextiles by Permittivity.

§ Provide MS, HI woven geotextile with monofilament in both directions. Do not make substitutions.

** Meeting 3733, "Geosynthetic Materials," Types 3, 4, 5, or 7, or poly/poly-reinforced sheeting meeting 3888, "Poly Sheeting" of variable width.

DIVISION SB Special Provisions starts here

CREATED 10/30/1992
 REVISED 3/20/2021 (1)

INDEX TO DIVISION SB

DIVISION SB

<u>Section No.</u>	<u>Item</u>	<u>Page No.</u>
SB-1	(1502) PLANS AND WORKING DRAWINGS	1-SB
SB-2	(1706) EMPLOYEE HEALTH AND WELFARE	2-SB
SB-3	(1717) AIR, LAND, AND WATER POLLUTION	3-SB
SB-4	REMOVAL OF ASBESTOS AND REGULATED WASTE (BRIDGE)	4-SB
SB-5	PROTECTION AGAINST COLD WEATHER	5-SB
SB-6	(2442) REMOVAL OF EXISTING BRIDGES	6-SB
SB-7	(2451) STRUCTURE EXCAVATIONS AND BACKFILLS	7-SB
SB-8	DEWATERING	9-SB

BRIDGE PLANS

The plans for this project, consisting of the sheets tabulated below, were approved by the State Bridge Engineer.

<u>BRIDGE NO.</u>	<u>TOTAL SHEETS</u>	<u>SHEET NO.</u>	<u>DATE OF APPROVAL</u>
02J56	28	1 to 28	N/A

New or revised sheets were approved as listed below:

<u>BRIDGE NO.</u>	<u>SHEET NO.</u>	<u>DATE OF APPROVAL</u>
-------------------	------------------	-------------------------

I hereby certify that the Special Provisions for bridge construction (Division SB) contained in this Proposal were prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

(RYAN R. EVANS, P.E.)

Date: 02/05/2024 Lic. No. 53920

CREATED 4/28/2017
REVISED 3/20/2021 (1)**SB-1 (1502) PLANS AND WORKING DRAWINGS**

The provisions of 1502, "Plans and Working Drawings," are supplemented as follows:

The Department will provide revised bridge drawings, bridge specifications, or provide bridge engineering analysis for the Contractor's means and methods if:

1. Deemed necessary by the Department, in its sole discretion, to rectify materials or workmanship not meeting specifications, or
2. Requested by the Contractor in writing.

The Department may, at its option, perform the work with its own staff, or by engaging a consultant pre-qualified by the Department to perform such work. If the Department is unable to perform the work, the Department may require the Contractor to have the work performed by a consultant acceptable to the Department.

If the Department, or a consultant engaged by the Department, performs further bridge engineering studies, bridge redesign, or provides additional bridge engineering analysis, the Contractor will reimburse the costs incurred by the Department. For work performed by the Department, the Department will charge the Contractor for the work at actual hourly rates of pay (including an overtime premium when applicable) and customary additives and overhead. For work performed by a consultant, the Department will charge the Contractor the amount invoiced by the consultant. The Department will prepare a Change Order for reimbursement, and will deduct the costs from any payment(s) due the Contractor.

When such work is performed by the Department or its consultant, the work will be considered a review for the Department's own purposes and will not be considered work commissioned by the Contractor. This clause will not constitute a special relationship between the Department and the Contractor, nor will the Contractor be a third-party beneficiary of the Department's contract with its consultant.

CREATED 12/4/1994
REVISED 3/20/2021 (3)**SB-2 (1706) EMPLOYEE HEALTH AND WELFARE**

The provisions of 1706, "Employee Health and Welfare," are supplemented as follows:

All safety equipment, in accordance with applicable safety and health codes and regulations, must be in place and operable in adequate time to allow Department personnel to perform their required inspection duties at the appropriate time. Don't place concrete in any areas affected by such required inspection until the inspection has been completed.

The installation of guardrail systems, safety nets, horizontal or vertical lifelines, personal fall arrest systems, or scaffolding whose purpose is to reduce the hazards of bridge work may require the attachment of anchorage devices to beams, girders, diaphragms, bracing or other components of the structure. Clamp type anchorage systems which do not require modification of structural members may be used, provided they do not interfere with proper execution of the work; if using an anchorage system which requires modification of structural members, request approval, in writing, for plan modifications as provided in MnDOT specifications. Requests to install systems which require field welding or drilling of primary stress carrying members of a bridge will not be approved. The Contractor shall indicate any portions of anchorage devices which will remain permanently in the structure.

On both ends of each pier cap extending 6 feet or more above the ground, the Contractor shall install an insert or other suitable anchorage to which a horizontal lifeline can be attached. Remove any portion of said device extending outside the finished lines of the pier cap unless otherwise approved by the Engineer. The Contractor shall repair or seal any void or cavity resulting from the installation or removal of this device to prevent the ponding or entry of water as directed by the Engineer.

The Contractor shall furnish, install and remove approved anchorage systems at no increased cost to the state for materials, fabrication, erection, or removal of the bridge component or anchorage system.

CREATED 8/3/1994
REVISED 10/6/2023 (8)

SB-3 (1717) AIR, LAND, AND WATER POLLUTION

The provisions of 1717, "Air, Land, and Water Pollution," are supplemented as follows:

The Contractor's attention is hereby directed to MPCA Rule 7011.0150 (<http://www.pca.state.mn.us>) as it relates to sandblasting and/or concrete removal operations.

Unless otherwise provided in these special provisions, construction, demolition and/or removal operations conducted over or in the vicinity of public waters shall be so controlled as to prevent materials from falling into the water. Any materials which do fall into the water, or onto areas where there is a likelihood that they will be picked up by rising water levels, shall be retrieved, and stored in areas where such likelihood does not exist.

CREATED 12/1/2004
REVISED 10/6/2023 (13)**SB-4 REMOVAL OF ASBESTOS AND REGULATED WASTE (BRIDGE)**

Remove and dispose of any regulated waste found on existing bridges or from the utilities located on the bridge in accordance with the applicable MnDOT Standard Specifications and the following:

If, during the course of removal or renovation of utility or bridge, additional asbestos materials or regulated wastes other than that noted in the Assessment Summary are encountered, notify the MnDOT Project Engineer to suspend work and furnish a documented inspection and evaluation by a MnDOT approved certified MDH contractor prior to resuming work. The work, as outlined in this paragraph, will be paid for as Extra Work.

Dispose of all asbestos and/or regulated waste in accordance with MnDOT's manual. Only those listed in this manual as pre-approved for asbestos and/or regulated waste will be allowed to work on this project. Use MnDOT approved companies for testing, waste transport and disposal as provided and described in MnDOT's manual "*Asbestos and Regulated Waste Manual For Structure Demolition Or Relocations for Construction Projects*" available on the following website: <http://www.dot.state.mn.us/environment/buildingbridge/index.html>. Contact Jeff Neisse at 651.356.2348 or Summer Allen-Murley 612.248.4302, Office of Environmental Stewardship, with any questions regarding the manual.

A pre-activity meeting will be conducted to outline the action items to the satisfaction of the Engineer prior to removing any regulated materials and any bridge renovation or demolition activities.

All material shall be removed, identified, and disposed of in accordance with Section S-1701 (LAWS TO BE OBSERVED (BRIDGE)) of these Special Provisions. Permission to begin the regulated waste removals, with the exception of material needed for hazardous and regulated waste assessment or testing, will not be granted until the Engineer has copies of all required notices.

Permission to proceed with the demolition or renovation of bridges will not be granted until the Engineer has received copies of all required notifications as indicated in Section S-1701 (LAWS TO BE OBSERVED (BRIDGE)) of these Special Provisions.

Notify any utility owners at least three (3) business days prior to the removal of any regulated waste which may affect the utility, allowing the utility owner time to have a representative on site.

See the attached "Asbestos and Regulated Waste Inspection Report" for information on whether asbestos or regulated waste was detected in the bridge(s) to be removed or renovated.

No measurement will be made of any portion of the asbestos or regulated waste material removal, but the complete removal thereof as specified shall be construed to be included in the single lump sum for which payment is made under Item 2104.601 "REMOVE REGULATED WASTE MATERIAL (BRIDGE)".

CREATED 2/22/2022

REVISED 2/22/2022

SB-5 Protection Against Cold Weather

Delete the 5th paragraph of 2401.3G.5, "Protection Against Cold Weather," and substitute the following:

Provide insulated forms, insulation, or heating and housing facilities to maintain a concrete surface and projecting reinforcing temperature of between 60°F and 120°F during the curing period. The Engineer may allow the concrete surface temperature of between 50°F and 120°F for concrete with strengths equal to or greater than 75 percent of the required compressive strength but not less than 4,000 psi.

CREATED 5/14/1997
REVISED 3/20/2021 (14)**SB-6 (2442) REMOVAL OF EXISTING BRIDGES**

The provisions of 2442, "Removal of Existing Bridges," are supplemented as follows:

SB-6.1 Supplemental Provisions

Dispose of materials in accordance with 1506, "Supervision by Contractor," 2104.3C, "Removal Operations," MnDOT Managing regulated materials on building and bridge projects per the Office of Environmental Stewardship and the following:

Furnish written information to the Engineer as to disposal of steel bridge beams and other steel bridge components coated with paint containing hazardous materials (i.e. Lead or PCB). Include method of stabilization and disposal; name, address, and telephone number of disposal site; certification that Contractor has notified disposal site of presence of the hazardous paint; acknowledgment by Contractor of OSHA requirements relating to lead or PCB; and certification that Contractor is familiar with proper handling and disposal of materials with lead or PCB based paint systems. Stabilize all paint that has been identified as peeling by coating with an approved product, as listed on the MnDOT Approved Products website www.dot.state.mn.us/products under "Lead Paint Encasement Product". Prevent the peeling paint from flaking off during demolition, or scrape and contain the peeling paint. If the coating option is used apply 16 mils of the product. Applying more than 16 mils of the product on a bridge over any water will require that the bridge have a diaper apron be attached under the bridge to contain the drips. Complete all work as per the MnDOT Office of Environmental Stewardship. The form supplied in this special provision must include the signature of the authorized Superintendent verifying that the information is correct.

CREATED 2/15/1978
REVISED 6/2/2015 (2)

SB-7 (2451) STRUCTURE EXCAVATIONS AND BACKFILLS

The provisions of 2451, "Structure Excavations and Backfills," are supplemented as follows:

CREATED 8/1/1994
REVISED 10/22/2021 (5)

SB-7.1 Structure Excavation

Undertake all activities necessary for construction of Bridge(s), which are not specifically included in the grading portion of the Contract. Dispose of surplus material.

For Bridge(s) No. 02J56, delete the second paragraph of 2451.3C and replace with the following paragraph:

Groundwater may be encountered during construction of the box culvert. Perform all box culvert construction in dry conditions. No additional payment will be made for measures to control groundwater. Dry conditions are no visible standing water.

Do not measure the excavated or backfill material. All work performed as specified above will be included in a single lump sum for which payment is made under Item No. 2401.601, "STRUCTURE EXCAVATION".

SB-8 DEWATERING

SB-8.1 Description of Work

This work shall consist of planning, constructing, maintaining and removing a Temporary Stream Diversion System through the culvert crossing to permit all project related work at the culvert site to take place in the dry.

SB-8.2 General Requirements

The Contractor shall construct a Temporary Stream Diversion System to dewater the site for bridge construction. Bypass Flow accommodation may be accomplished by using either pumping, bypass piping, a bypass channel, or another Engineer approved method, including a combination thereof. Contractor's plan shall include contingency plans for conceivable failures of the Temporary Stream Diversion System (for example a berm sloughing or pump failure). It shall be the Contractors responsibility to be adequately prepared to react to sudden storms or flooding with minimal damage to equipment, the project, or risk to staff, to the public, or to the environment.

For this project, a two-stage bypass channel is anticipated. The staging process is generally described as follows, and may be modified by the Contractor as needed (subject to Engineer's approval):

Stage 1: Construct bypass channel and dewatering system such that one barrel of the culvert and the associated bedding may be constructed in the dry.

Stage 2: Redirect bypass channel through completed culvert and dewater adjacent area such that the second barrel of the culvert and the associated bedding may be completed in the dry.

The Contractor shall submit a Site Plan, per MnDOT 1717.2D and this specification. The Site Plan will be submitted to the Engineer for approval. The Engineer shall approve the Site Plan before the associated bridge or culvert work can begin.

The Contractor shall comply with all permits required as part of this contract, including DNR Permit, Corps of Engineers Permit, Watershed District Permit, County Ditch Approval, Minnesota Pollution Control Agency Permit, and others. A hard copy of the DNR Best Practices manual shall be on site at all times. The Contractor shall utilize all applicable details and listed construction Best Management Practices (BMPs) in the DNR permit manual to ensure compliance with all DNR permits.

The system shall include a sediment basin (as applicable) to control & filter sediments prior to reentering the stream. The sediment basin for dewatering shall be sized such that sediment can be filtered out of water prior to being discharged downstream. Pump shall be surrounded with pea gravel, crushed rock, or other engineer approved means to ensure water is filtered prior to being discharged downstream. In the event that a sedimentation basin cannot be made large enough to eliminate turbid water from being discharged downstream, flocculants, floating pumps, floc socks, or other engineer approved BMP's can be used to reduce turbidity in water prior to discharging downstream.

In the event that more than 10,000 gallons per day are dewatered, the contractor will be responsible for acquiring the necessary dewatering permits from governing authorities (incidental).

Contractor shall utilize the 2009 version of MnDOT's erosion and sediment control pocketbook guide for additional BMP's. A copy of the guide shall be on site at all times as part of the SWPPP documents.

Excavation dewatering must be discharged to a temporary sediment basin on site or it must be treated with the appropriate BMP such that the discharge does not adversely affect the receiving water.

All water from dewatering operations must be discharged in a manner that does not cause nuisance conditions.

The Temporary Stream Diversion System shall include protective measures to avoid injuries to fish and other aquatic animals, wildlife, and people.

The Contractor shall address any erosion control problems associated with the Temporary Stream Diversion System immediately. No additional compensation will be made for erosion repairs or other damage caused by the operation or failure of the Temporary Stream Diversion System.

To construct the proposed culvert & bedding in the dry, groundwater shall be temporarily removed from the excavations. Groundwater should be drawn down at least 2 to 3 feet below the anticipated excavation bottom prior to excavation. Based on the anticipated excavation depths and groundwater elevations, well points or deep wells will be needed to control groundwater. A licensed well contractor should develop a temporary water removal plan for this site.

SB-8.3 General Requirements

No measurement will be made for any labor, materials, or equipment required to perform this work, to repair this work, to maintain this work or to remove all Temporary Stream Diversion System components upon completion of the work. Also, no compensation shall be paid to the Contractor for any damages or delay costs due to operation or failure of any Temporary Stream Diversion Systems. Payment will be made under Item 2573.601 "TEMPORARY STREAM DIVERSION SYSTEM" at the Contract bid price per Lump Sum, which shall be compensation in full for all costs of performing the work described herein. (All work at all sites, if applicable, is included in a single lump sum payment.)

1910 Fuel Escalation Clause

The provisions set forth in 1910, "Cost Escalation" are hereby supplemented with the following:

This provision provides for compensation adjustments in the cost of motor fuels (diesel and gasoline) consumed in prosecuting the Contract work. The Engineer will calculate the Fuel Cost Adjustments. Payments or credits will be applied to progress, semi-final, and final payments for work items set forth herein.

The Department will establish a Base Fuel Index (BFI) for fuel to be used on the Contract. The BFI will be the average of the high and low rack prices shown for Ultra Low Sulfur Diesel Undyed in the "DTN FastRack" for the day of the Contract letting.

A Current Fuel Index (CFI) in cents per gallon will be established for each week. The CFI will be the average of the high and low rack prices shown for Ultra Low Sulfur Diesel Undyed in the "DTN FastRack" indicated each Friday.

The Engineer will compute the ratio of the CFI to the BFI (CFI/BFI) each week. If that ratio is between 0.85 and 1.15, no fuel adjustment will be made for the week following the CFI computation. If the ratio is less than 0.85, a credit to the Department will be computed. If the ratio is greater than 1.15, additional payment to the Contractor will be computed.

Credit of additional payment will be computed as follows:

1. The Engineer will estimate the quantity of work done in that week under each of the Contract items listed in Table 1910-1.
2. The Engineer will compute the gallons of fuel used in that week for each of the Contract items listed in Table 1910-1 by applying the unit fuel usage factors shown.
3. The Engineer will determine the Fuel Cost Adjustment (FCA) from the following formulas
 - a. If the CFI is greater than the BFI: $[(CFI/BFI)-1.15]*Q*BFI$ = amount of FCA to be paid to the Contractor.
 - b. If the CFI is less than the BFI: $[(CFI/BFI)-0.85]*Q*BFI$ = amount of FCA to be credited to the Department
 - i. FCA = Fuel Cost Adjustment (cents)
 - ii. CFI = Current Fuel Index (cents per gallon)
 - iii. BFI = Base Fuel Index (cents per gallon)
 - iv. Q = Weekly total gallons of fuel per item

Basis of Payment

A FCA payment to the Contractor will be made as a price adjustment to each eligible item for each payment period based on the last published CFI. An FCA credit to the Department will be deducted each payment period

from any monies due the Contractor. Only items shown in Table 1901-1 will be considered for compensation adjustments.

Table 1901-1 Schedule of Work Items

Specification Number	Item	Unit	Gallons of Fuel per Unit
2105	Common Excavation	CY	0.17
2105	Rock Excavation	CY	0.27
2105	Muck Excavation	CY	0.17
2105	Subgrade Excavation	CY	0.17
2105	Unclassified Excavation	CY	0.23
2105	Granular Borrow (EV)	CY	0.17
2105	Granular Borrow (CV)	CY	0.19
2105	Granular Borrow (LV)	CY	0.14
2105	Select Granular Borrow (EV)	CY	0.17
2105	Select Granular Borrow (CV)	CY	0.19
2105	Select Granular Borrow (LV)	CY	0.14
2105	Common Borrow (EV)	CY	0.17
2105	Common Borrow (CV)	CY	0.19
2105	Common Borrow (LV)	CY	0.14
2105	Topsoil Borrow (EV)	CY	0.17

Specification Number	Item	Unit	Gallons of Fuel per Unit
2105	Topsoil Borrow (CV)	CY	0.19
2105	Topsoil Borrow (LV)	CY	0.14
2106	Excavation – Common	CY	0.17
2106	Excavation – Subgrade	CY	0.17
2106	Excavation – Rock	CY	0.27
2106	Excavation – Muck	CY	0.17
2106	Common Embankment (CV)	CY	0.19
2106	Granular Embankment (CV)	CY	0.19
2106	Select Granular Embankment (CV)	CY	0.19
2106	Select Granular Embankment (CV) Modified (___%) (CV)	CY	0.19
2211	Aggregate Base	Ton	0.55
2211	Aggregate Base (LV)	CY	0.77
2211	Aggregate Base (CV)	CY	0.99
2211	Open Graded Aggregate Base (CV)	CY	0.99
2211	Shoulder Base Aggregate, Class	Ton	0.55
2211	Shoulder Base Aggregate (LV), Class	CY	0.77
2211	Shoulder Base Aggregate (CV), Class	CY	0.99

Specification Number	Item	Unit	Gallons of Fuel per Unit
2301	Concrete Pavement t inches	SY	0.027* t
2301	Place Concrete Pavement t inches	SY	0.027* t
2360	Type SP () Wearing Course Mixture	Ton	0.90
2360	Type SP () Non Wearing Course Mix	Ton	0.90
2360	Type () Mixture t inches thick	SY	0.051* t
2501	Pipe Culvert	Lin Ft	0.70
2501	Pipe Arch Culvert	Lin Ft	0.70
2501	Pipe Culvert Des 3006	Lin Ft	0.70
2503	Pipe Sewer	Lin Ft	0.70
2503	Pipe Arch Sewer	Lin Ft	0.70
2503	Pipe Sewer Des 3006	Lin Ft	0.70

t = Thickness in inches

The Department will not pay adjustments for pipes less than 12" in diameter, jacked pipes, or directionally drilled pipes.

The Department will not pay adjustments for fuel used for drying or heating aggregates.



Asbestos and Regulated Waste Assessment Report

**Bridge 02502 – CSAH 28 over Seelye Brook
0.1 Miles West of Junction County Road 71
St. Francis, MN 55070**



**Prepared for:
Bolton & Menk, Inc.
7533 Sunwood Drive, Ste. 206
Ramsey, MN 55303**

**Prepared by:
American Engineering Testing, Inc.,
550 Cleveland Avenue North,
St. Paul, MN 55144**

December 2022

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
December 21, 2022
AET Project No. P-0014201



Contents

Section 1: Site Specifics and Certification Bridge 02502	1
Section 2: Summary of Actions Required for this Demolition/Rehabilitation Bridge 02502	2
Section 3: Summary of all Asbestos and Regulated Wastes Bridge 02502	4
Appendix I: Chain of Custody Forms and Analytical Results	7
Appendix II: Structure Location, Sample Location Maps, Photo Log	8
Appendix III: Licenses and Certifications	9

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
December 21, 2022
AET Project No. P-0014201



Section 1: Site Specifics and Certification

Bridge 02502

SP: Not Applicable (N/A)

TH: CSAH 28

Bridge Number/Name: Bridge 02502, CSAH 28 over Seelye Brook


Location: 0.1 Miles West of Junction County Road 71, St. Francis, MN 55070 (see site map Appendix II).

Current Owner: Anoka County, Minnesota

Expected Disposition of the Structure: Demolition/Rehabilitation

Licensure: MDH certified asbestos inspector conducted the inspection (Appendix III).

Certification: The undersigned certifies that this asbestos inspection was performed in compliance with MN Rules 4620.3460.

Signature: 
Ross T. Flatgard, Environmental Scientist II
MDH Certified Asbestos Inspector# Cert #AI10396

Date: December 21, 2022

Signature: 
Bruce Boehm Carlson, Senior Environmental Project Manager
MDH Certified Asbestos Inspector# Cert #AI8033

Date: December 21, 2022

Certification: The undersigned certifies that this asbestos and regulated waste inspection and report was performed under my direct supervision, and I have reviewed its contents and find it to meet or exceed MnDOT's requirements.

Signature: 
Joseph Conlan, Senior Environmental Project Manager
Certified Hazardous Materials Manager #29570

Date: December 21, 2022

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
December 21, 2022
AET Project No. P-0014201



Section 2: Summary of Actions Required for this Demolition/Rehabilitation Bridge 02502

Review Bridge Drawings: The bridge structure inventory report was reviewed to identify suspect asbestos-containing materials (ACM) and other regulated materials at the bridge. The document identified treated timber used for the bridge abutments, curbs, guardrail posts, pilings, slab, and wing walls.

Asbestos Summary: No suspect asbestos-containing materials were identified or collected from the bridge. See Section 3 for the detailed sample locations, amounts, conditions, and summary inventory of all asbestos-containing materials.

The following locations were inspected for ACM:

- The bridge abutments, deck, guardrails, pilings, slab, wear surface and wing walls.
- No 3-ply joint waterproofing was identified at the bridge.
- No utility conduits were observed below or near the bridge.
- In addition, AET inspected the bridge for signs of bats including droppings, urine staining, ammonia smell and chirping/chattering sounds. No indications of bats being present at the bridge was observed.

Regulated Waste Summary: The following regulated wastes were found on the bridge or along the roadway immediately before and after the bridge. This waste is required to be removed prior to the demolition/renovation. See attached documents in Section 3 for the detailed inventory of all regulated wastes within each structure.

PCBs: Per the Environmental Protection Agency (EPA) and Minnesota Pollution Control Agency (MPCA) caulking, which will be impacted as part of a renovation or demolition must be sampled and tested for polychlorinated biphenyls (PCBs) content. In addition to caulking, bituminous felt and paints installed prior to 1980 are included. If the caulking, bituminous felt, or paints contain PCBs and is to be impacted during renovation or demolition it must be removed and disposed of following all applicable federal and state regulations.

- Caulk, bituminous felt, and paints containing PCBs at or greater than 50 ppm is considered hazardous waste.
- Caulk, bituminous felt, and paints containing PCBs between 1.1 and 49.99 ppm is considered industrial solid waste.
 - If the caulk, bituminous felt, and paints remains adhered to a substrate/structure the waste may be disposed of as demolition debris. If the results are 2 ppm or greater the demolition landfill must address PCB caulk material in its Industrial Solid Waste Management Plan.
 - If the caulk, bituminous felt, and paints is removed from the substrate the waste must go as municipal or industrial waste and not as demolition debris.

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
December 21, 2022
AET Project No. P-0014201



- Caulk, bituminous felt, and paints containing PCBs below 1 ppm is not considered regulated waste.
- Caulking – None
- Bituminous Felt – None
- Paint - None
- Traffic Signal Ballasts – None
- Roadway Light Ballasts - None
- Transformers – None

Mercury:

- HID Lights - None

Lead:

- Sheet Lead Plates – None
- Lead-Based Paint – None

Treated Wood:

- Green-Treated Posts – None
- Creosote-Treated Posts
 - North Guardrail – 5 guardrail posts, and 12 guardrail posts and spacers are located on the north guardrail.
- Creosote-Treated Timbers – The bridge abutments (240 SF each), curb (54 SF each), pilings (24 each), slab (815 SF) and wing walls (64 SF each) are constructed of creosote-treated timbers.

Electronic Waste:

- Traffic Signal LED Lights – None
- Roadway LED Lights – None
- Printed Circuit Boards - None

Hazardous/Regulated Waste:

- None identified at the bridge

Solid Waste:

- Municipal Solid Waste (MSW) – None
- Tires – None

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
 December 21, 2022
 AET Project No. P-0014201



Section 3: Summary of all Asbestos and Regulated Wastes

Bridge 02502

Structure Number/Name: Bridge 02502, CSAH 28 over Seelye Brook

Address of Structure: 0.1 Miles West of Junction County Road 71, St. Francis, MN 55070

Inspection Date: September 1, 2022

Asbestos

Category I and II

Location	Sample Description	% Asbestos	Quantity (ft ²)	Item	Condition	Sample #	Lab Analysis/COC Enclosed

Total Square Feet: No Category I or II asbestos-containing materials were identified within the structure.

Friable

Location	Sample Description	% Asbestos	Quantity (ft ²)	Item	Condition	Sample #	Lab Analysis/COC Enclosed

Total Square Feet: No friable asbestos-containing materials were identified within the structure.

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
 December 21, 2022
 AET Project No. P-0014201



Regulated Waste

MnDOT Regulated Waste Inspection Form One Form Per Structure

Company Performing the Inspection American Engineering Testing, Inc.
 Company's State Work Order Number N/A
 Company Address 550 Cleveland Ave. N., St. Paul MN 55114
 Company Telephone 651-999-1387
 Inspectors Name Bruce Boehm Carlson

Mn/DOT District N/A
 State Project Number N/A
 Bridge Number/Name Bridge 02502, CSAH 28 over Seelye Brook
 Address of Structure 0.1 Miles West of Junction County Road 71, St. Francis, 55070
 Inspection Date/s September 1, 2022

Inspected Items	Item	Quantity	Location
		(If none found, state "none")	
PCBs			
<i>Caulk/Bituminous Felt (>50 ppm)</i>		None	
<i>Caulk/Bituminous Felt (<50 ppm)</i>		None	
<i>PCB Paint (<50 ppm)</i>		None	
<i>PCB Paint Peeling (%)</i>		None	
<i>Traffic Signal Light Ballasts</i>		None	
<i>Roadway Light Ballasts</i>		None	
<i>Transformers</i>		None	
Mercury			
<i>HID Lamps</i>		None	
Lead			
<i>Sheet Lead Plates</i>		None	
<i>Lead-Based Paint (SF)</i>		None	
<i>Lead-Based Paint Peeling (%)</i>		None	
Treated Wood			
<i>CCA (green treat)</i>			
<i>Creosote-Treated Timbers</i>	Guardrail Posts	5 Each	North Guardrail
<i>Creosote-Treated Timbers</i>	Guardrail Posts and Spacers	12 Each	North Guardrail
<i>Creosote-Treated Timbers</i>	Creosote-Treated Timbers	240 SF Each (480 SF Total)	East and West Abutments
<i>Creosote-Treated Timbers</i>	Creosote-Treated Timbers	54 SF Each (108 SF Total)	North and South Curb

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
 December 21, 2022
 AET Project No. P-0014201



<i>Creosote-Treated Timbers</i>	Creosote-Treated Timbers	8 Each (16 Total)	Pilings at East and West Abutments
<i>Creosote-Treated Timbers</i>	Creosote-Treated Timbers	2 Each (8 Total)	Pilings at Four Wing Walls
<i>Creosote-Treated Timbers</i>	Creosote-Treated Timbers	815 SF	Bridge Slab
<i>Creosote-Treated Timbers</i>	Creosote-Treated Timbers	64 SF Each (256 SF Total)	Four Wing Walls
Electronic Waste			
<i>Traffic Signal LED Lights</i>		None	
<i>Roadway LED Lights</i>		None	
<i>Printed Circuit Boards</i>		None	
Hazardous/Regulated			
<i>Paint (oil/latex)</i>		None	
<i>Oil</i>		None	
Solid Wastes			
<i>Municipal Solid Waste (trash, estimate yards)</i>		None	
<i>Tires</i>		None	

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
December 21, 2022
AET Project No. P-0014201



Appendix I: Chain of Custody Forms and Analytical Results

Bridge 02502
CSAH 28 over Seelye Brook
St. Francis, MN 55070

NO ASBESTOS, LEAD, OR PCB SAMPLES WERE COLLECTED DURING THIS INSPECTION

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
December 21, 2022
AET Project No. P-0014201



Appendix II: Structure Location, Sample Location Maps, Photo Log

Bridge 02502

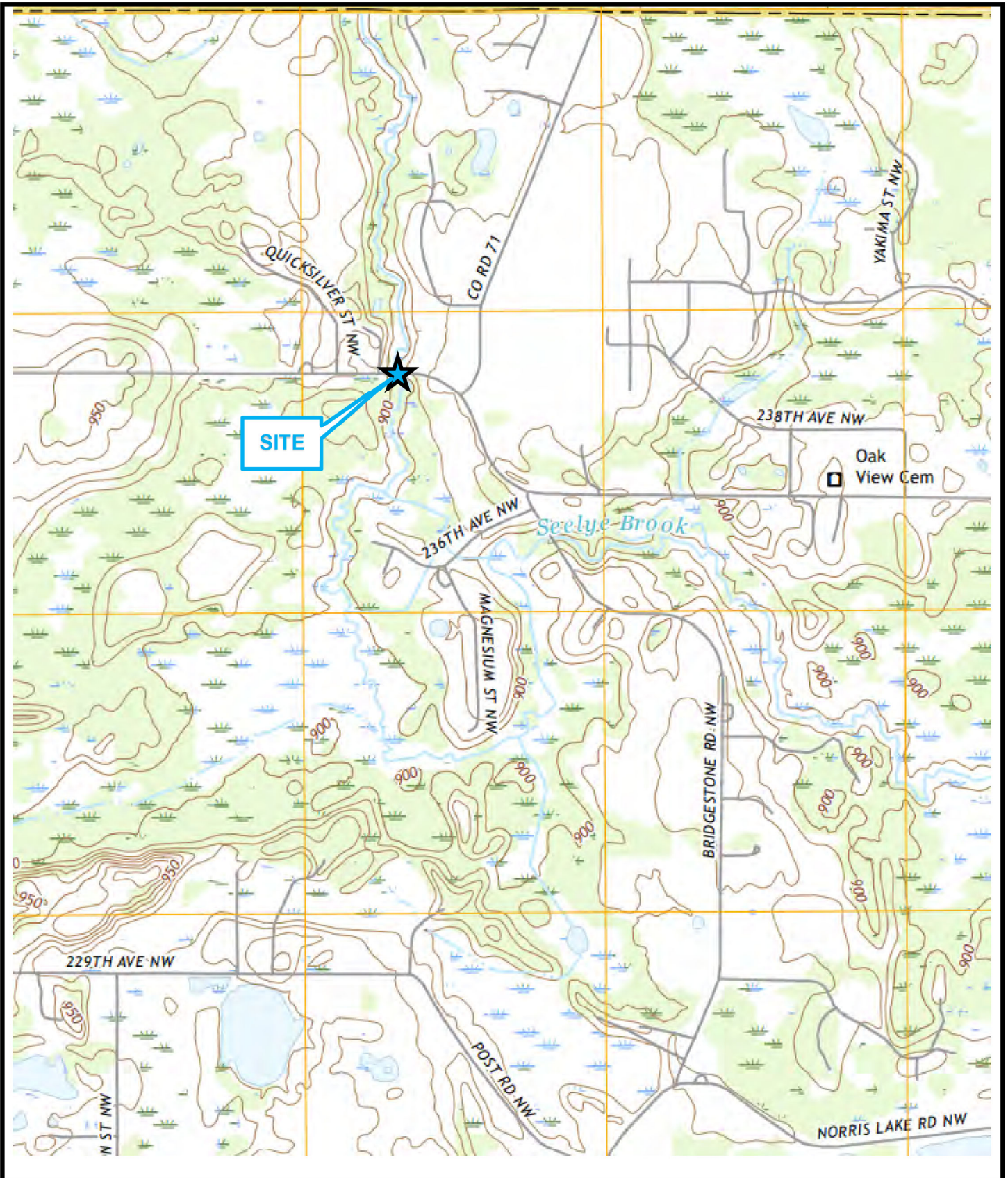
CSAH 28 over Seelye Brook

St. Francis, MN 55070

Site Location (Figure 1)

Sample Locations (Figure 2)

Asbestos and Regulated Waste Inspection Photographs



Scale: Not to Scale

Figure 1
Site Location Map

Bridge #02502
CSAH 28 over Seelye Brook
St. Francis, MN 55070

Date: 12/14/2022

AET Project No. P-0014201



* NO ASBESTOS SAMPLES WERE COLLECTED DURING THIS INSPECTION

LEGEND
#1 – Asbestos Sample Location
*Red Indicates Positive



Scale: Not to Scale

Figure 2
Sample Location Map

Bridge #02502
CSAH 28 over Seelye Brook
St. Francis, MN 55070

Date: 12/14/2022

AET Project No. P-0014201



Bridge 02502, CSAH 28 over Seelye Brook, St. Francis, MN
AET Project No. P-0014201



Photo 1 – View of Bridge 02502 looking to the east along CSAH 28.



Photo 2 – View of Bridge 02502 looking to the west along CSAH 28.



Photo 3 – View of creosote-treated timber curb and wing wall at the south and southwest portions of the bridge.



Photo 4 – View of creosote-treated guardrail posts and spacers along the north guardrail.



Photo 5 – View of creosote-treated guardrail posts and wing wall along the north guardrail.



Photo 6 – View of treated timber construction below Bridge 02502 including abutment, pilings, and slab.

Asbestos and Regulated Waste Assessment Report
Bridge 02502, St. Francis, Minnesota
December 21, 2022
AET Project No. P-0014201



Appendix III: Licenses and Certifications

Bridge 02502

CSAH 28 over Seelye Brook

St. Francis, MN 55070

MDH Asbestos Contractor License

MDH Asbestos Inspector Certifications

MDH Asbestos Inspector Certifications

MDH Lead Risk Assessor Certifications

CHMM Certification

Minnesota Department of Health

Asbestos Contractor License

License Number: AC835

Issued on: August 11, 2022

To:

American Engineering Testing, Inc.

550 Cleveland Ave N

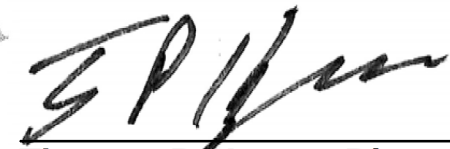
St Paul, Minnesota 55114-

Responsible Individual: Bruce A. Boehm-Carlson

This license is valid from August 17, 2022 to August 16, 2023.

Pursuant to Minnesota Statutes, section 144.99, this license may be suspended or revoked for failure to conduct asbestos-related work in compliance with applicable regulations.

Asbestos-related work must be conducted according to Minnesota Statutes, sections 326.70 to 326.81 and Minnesota Rules, parts 4620.000 to 4620.3724.



**Thomas P. Hogan, Director
Environmental Health Division**

MINNESOTA DEPARTMENT OF HEALTH

has authorized

**AMERICAN ENGINEERING TESTING, INC.
550 CLEVELAND AVE N
ST PAUL, MINNESOTA 55114**

In accordance with Minnesota Statutes, section 144.9505 and Minnesota Rules, part 4761.2200, to practice in the State of Minnesota as a

CERTIFIED LEAD FIRM

**License No: LF3340
Expires: 11/08/2022**

THIS CERTIFICATE IS NONTRANSFERABLE



A handwritten signature in black ink, appearing to read 'T P Hogan'.

**Thomas P. Hogan, Director
Environmental Health Division**

Certificate No: 5LM01032213IR

Expiration Date: January 3, 2023

This is to certify that
Bruce A. Boehm Carlson
 has attended and successfully completed an
ASBESTOS INSPECTOR
REFRESHER TRAINING COURSE

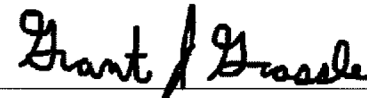
permitted by
 the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722
 and meets the requirements of
 Section 206 of Title II of the Toxic Substances Control Act (TSCA)
 conducted by

Lake States Environmental, Ltd.

in
Attended Remotely on January 3, 2022

Examination Date: January 3, 2022

Lake States Environmental, Ltd.
 P. O. Box 645, Rice Lake, WI 54868
 (800) 254-9811



Training Instructor

Director, Env. Health Div.



No. A18033

Issued 01/11/2022

m ASBESTOS
 DEPARTMENT
 OF HEALTH
 INSPECTOR
 Certified by:
 State of Minnesota
 Department of Health
 Expires: 01/03/2023
 Bruce A Boehm-Carlson
 5720 Dupont Ave S
 Minneapolis, MN 55419

Certificate No: 5LM02282206PbRAR

Issue Date: March 1, 2022

This is to certify that
Bruce A. Boehm Carlson
5720 DuPont Avenue S, Minneapolis, Minn. 55419
for successfully completing and passing the examination for the

**LEAD (Pb) RISK ASSESSOR
REFRESHER TRAINING COURSE**

This training course is Approved by the State of Minnesota
under Minnesota Rules, parts 4761.2000 to 4761.2700
and meets the requirements of 40 CFR 745.225,
and Title X of the Toxic Substances Control Act (TSCA)
conducted by

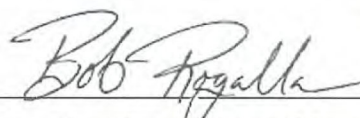
Lake States Environmental, Ltd.

by

Remote Attendance on February 28, 2022

Examination Date: February 28, 2022

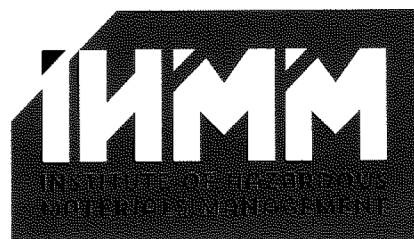
Lake States Environmental, Ltd.
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811


Bob Rogalla – Training Course Manager

Director, Env. Health Div.




DEPARTMENT OF HEALTH
Risk Assessor
Licensed by:
State of Minnesota
Department of Health
License No. LR2789
Expires 02/28/2023
Bruce A Boehm-Carlson
5720 Dupont Ave S
Minneapolis, MN 55419



THIS CERTIFIES THAT

Joseph Conlan

HAS SUCCESSFULLY MET ALL THE REQUIREMENTS OF EDUCATION, EXPERIENCE AND EXAMINATION, AND IS HEREBY DESIGNATED A

**CERTIFIED HAZARDOUS MATERIALS
MANAGER® CHMM®**

January 12, 2017

29570

DATE OF CERTIFICATION

CREDENTIAL NUMBER

January 31, 2027

CERTIFICATION EXPIRES

EUGENE A. GUILFORD, JR.
EXECUTIVE DIRECTOR



VERIFIABLE AS AUTHENTIC AT
<https://online.ihmm.org/ihmssa/censsacustlkup.que>
ry_page



Accredited by the American National Standards Institute and
the Council of Engineering and Scientific Specialty Boards





520 Lafayette Road North
St. Paul, MN 55155-4194

Deconstruction, renovation, or demolition notification form

Asbestos Program

Doc Type: Asbestos & Demolition/Amendments

Type of notification: Original Amended Project cancellation

Notification is required for all NESHAP-regulated facilities, as defined in 40 CFR § 61.141, and the notification must be postmarked or received ten (10) working days before renovation, deconstruction, or demolition begins. See Item 5 for emergency demolition projects. If the project dates change, submit an amended form with an updated start and end dates to reflect current project dates.

Submittal: Notifications may be made electronically (preferred) or by paper copy. To submit this form electronically, save the form to your computer and send the form to the Minnesota Pollution Control Agency (MPCA) by attaching the form to an email message, using *Deconstruction, renovation, or demolition notification form (w-sw4-21)* as the subject line to asbestos.demolition.pca@state.mn.us. To submit the form by paper copy, please mail to the Asbestos Program at the address above. If you have any questions, contact the MPCA Asbestos Program Coordinator, Colin Boysen at colin.boysen@state.mn.us or 507-206-2644.

Important Note: Ensure you are in compliance with Minn. R. 7035.0805 prior to the commencement of the deconstruction, renovation or demolition project. This rule requires that the following items be removed two days prior to demolition: mixed municipal solid waste; household hazardous waste; industrial or hazardous waste; waste tires; major appliances; items containing elemental mercury, Poly-Chlorinated BiPhenyls (PCBs), and chlorofluorocarbons (CFCs); oil; lead; electronics; and other prohibited items. See MPCA website at <http://www.pca.state.mn.us/publications/w-sw4-20.pdf> for a *Pre-Renovation/ Demolition Environmental Checklist Guidance Document* to assist with completion of this rule.

*Demolition waste must be disposed of at a permitted solid waste facility. MPCA encourages consideration of building material reuse and recycling before demolition/disposal at a permitted solid waste facility, as outlined in in Minn. Stat. 115A.02, which establishes preferred management methods based on environmental impact.

Note that some questions are **optional**. For more information on deconstruction/material salvage and reuse, please contact MPCA Sustainable Building Material Management staff: demo.mPCA@state.mn.us.

Renovation, deconstruction, and/or demolition contractor

If there is more than one contractor, please see last page (**optional**).

Contractor

Name of firm or organization: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Contact: _____ Phone: _____ Email: _____

Building owner

Name of owner: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Contact: _____ Phone: _____ Email: _____

Building information

Name of building, if applicable: _____

Address/location: _____ County: _____

City: _____ State: _____ Zip code: _____

Contact: _____ Phone: _____ Email: _____

Year built _____ Size of building: _____ Sq. ft. Number of floors, including basement level(s): _____

Prior use of building _____

Present use of building _____

Future use of building, if applicable: _____

Dates of renovation, deconstruction or demolition: Start date: _____ End date: _____
(mm/dd/yyyy) (mm/dd/yyyy)

Provide a brief description of the planned demolition or renovation & anticipated removal method(s):
Optional for deconstruction

If the activity was ordered by a government agency, please identify the agency and attach a copy of the order:

Name: _____ Title: _____

Authority: _____

Date of order (mm/dd/yy): _____ Start date (mm/dd/yy): _____

*Notification for an emergency demolition must be submitted as early as possible before demolition begins, but not later than the following working day. A demolition is considered an emergency **only** when the facility has been deemed structurally unsound and in danger of imminent collapse. If the structurally unsound building is known to contain any regulated Asbestos Containing Material (ACM) or is suspected to contain any regulated ACM, special procedures **must** be followed. If you are unaware of the special procedures, instructions/ regulations can be obtained by contacting the MPCA at the phone numbers listed below. Refer to 40 CFR 61.145(a)(3) for additional information.*

If the ACM will become crumbled, pulverized, or reduced to powder during the demolition process it must be removed prior to demolition activities.

Is nonfriable ACM present in the structure to be demolished? Yes No

Will nonfriable ACM be present in the structure at the time of demolition? Yes No

If Yes to either question above, complete Items 1-9. If No to both questions, complete Items 3-9.

1. If ACM will be left in place, indicate the amount of Category I and/or Category II nonfriable ACM left in place.

Category I: _____ Linear feet
_____ Square feet
_____ Cubic feet

Category II: _____ Linear feet
_____ Square feet
_____ Cubic feet

Category I nonfriable ACM means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than one percent asbestos.

Category I nonfriable ACM is not allowed to remain in place for demolition if it is in poor condition.

Category II nonfriable ACM means any material, excluding Category I nonfriable ACM, containing more than one percent Asbestos that, when dry, cannot be crumbled, pulverized, or reduced to a powder by hand pressure.

Category II nonfriable ACM is not allowed to remain in place for demolition if it has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition, transport, or disposal (e.g., transite, cement, slate roofing).

2. Description and location of ACM remaining in place (including number of floors and rooms):

3. Company and/or individual that conducted the building inspection and the procedure used to determine the presence or absence of ACM (including analytic method).

Note: Prior to demolition all structures must be inspected by a licensed asbestos inspector who has been certified through the Minnesota Department of Health.

4. Description of procedure to be followed in the event that unexpected RACM is found or Category II nonfriable ACM becomes crumbled, pulverized or reduced to powder:

5. a. Were any materials assessed for salvaging/reuse or for recycling? (optional) Yes No

b. If yes, which ones?

c. Structure/building material management methods (optional). Use this section to describe the destination or end use of the materials

Material	Management method (Reused/salvaged, recycled, sent to landfill, etc.)	Company/Organization	Location (City/township, State)
Concrete:			
Masonry:			
Ferrous metals:			
Non-ferrous metals			
Whole items*			
Wood			
Miscellaneous**			

*Example: fixtures, whole doors, etc.

**Miscellaneous materials include shingles, drywall, carpet, etc.

6. Waste transporter information

Transporter name: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Contact: _____ Phone: _____ Email: _____

7. Permitted waste disposal site information (*see below for more information)

Facility name: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Contact: _____ Phone: _____ Email: _____

Contractor signature: By typing my name below, I certify that the above information is correct and I am a bonafide representative of the demolition contractor or building owner and have authority to enter into agreements for my employer.

By typing/signing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Signature: _____ Title: _____

(This document has been electronically signed.)

Date (mm/dd/yyyy): _____

Building owner signature optional: By typing my name below, I certify that I approve of the building material management system outlined by the contractor.

By typing/signing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Signature: _____ Title: _____

(This document has been electronically signed.)

Date (mm/dd/yyyy): _____

A copy of this form should be sent to the local governing authority. Has a copy been sent? Yes No

Check local ordinances if submittal is required; **otherwise optional.**

*Minn. R. 7035.0805 states lead paint not firmly adhered to the substrate is required to be removed prior to demolition or renovation. For purposes of this item, "lead paint" means a coating that contains one-half of one percent (0.5 percent) or more or 5,000 parts per million (5,000 ppm) or more of total lead by weight in the dried film, as determined by acid digestion and analysis, or contains one milligram per square centimeter (1.0 mg/cm²) or more of lead, as determined by X-ray fluorescence analyzer; MPCA encourages the proper management of lead based paint.

If there's more than one contractor on this project, please list them here **(optional)**.

Contractor

Name of firm or organization: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Contact: _____ Phone: _____ Email: _____

Contractor

Name of firm or organization: _____

Mailing address: _____

City: _____ State: _____ Zip code: _____

Contact: _____ Phone: _____ Email: _____

2023

SALT Schedule of Materials Control



2022 SALT Schedule of Materials Control – Local Government Agency

Contents

Introduction 3

Material Acceptance Summary Instructions 4

Material Acceptance Summary 5

Bituminous Quality Management 6

Bituminous Specialty Items 8

Cold Inplace Recycling (CIR), Stabilization Full Depth Reclamation (SFDR) 9

Grading and Base Construction Items 10-13

Certified Ready-Mix Concrete 14-16

Concrete Plant and Field Materials 17

Concrete Pavement – Agency 18-19

Concrete Pavement – Producer/Contractor 20-21

Concrete Wearing Course for Bridges 22

Concrete Pavement Repair – CPR for 3U18 23

Dowel Bar Retrofit – (DBR) 24

Landscaping and Erosion Control Items 25

Chemical Items 26

Metals 27-28

Geosynthetics, Pipe, Tile, Precast/ Prestressed Concrete 29

Electrical and Signal Equipment Items 30-31

Brick, Stone and Masonry Units 32

Miscellaneous Materials 33

Approved/Qualified Products & Resources 34

Contacts 35

Sample Sizes 38

2022 SALT Schedule of Materials Control – Local Government Agency

Introduction

This Schedule of Materials Control (SMC) outlines the **MINIMUM** testing requirements for State Aid Funded and/or Federal Aid Projects off the National Highway and Trunk Highway System. Optional to this SMC is the MnDOT Materials Control Schedule. Usage of either schedule must be defined in the project proposal.

The SMC - LGA serves as a guide for material testing with allowable acceptance "as directed by the Engineer" detailed in Specification 1501.1(1) - Authority of the Engineer. These testing rates are a minimum and additional test may be taken at the Engineer's discretion. A minimal testing rate does not always ensure a quality product; field observations and attention to detail is crucial. Materials not listed on an approved products list may be sampled and tested as directed by the Engineer. Materials listed on a Qualified Products list may be accepted or tested at the discretion of the Engineer.

Federal Aid projects require Independent Assurance Inspection. Contact the MnDOT District IA Inspector when the job starts to provide the proper servicing of your project.

*****Agencies using MnDOT Metro Inspection Services will be sampled at the current MnDOT Schedule of Materials Control rates and will be billed accordingly.**

*****Contact the MnDOT District IA Inspector to provide servicing for your federal aid project.**

Definitions

[Schedule of Materials Control](#)

Schedule of Materials Control (SMC) are inserted into project proposals to direct how materials are to be sampled and tested. The SMC is updated yearly. Each SMC is project specific. Therefore, one needs to refer to their specific proposal.

[Approved/ Qualified Products List](#)

Products are "approved" when they have been found to routinely meet all applicable standards and specifications. The product is placed on the list based upon established successful manufacturer's quality control and warranties, but the listing may expire or require periodic renewal to verify the product has not changed over time. The approval process for the individual product should specify any expiration requirement. Testing may still be on at the Engineers discretion.

[Certified Sources](#)

Certified Sources must comply with each individual product's defined "certification procedure". Acceptance of products from certified sources follows the same sampling and testing as "approved/ qualified" products.

Quality control (QC): The activities performed by the **Contractor/Producer** that have to do with making sure the quality of a product or process meets the relevant contract requirements. All testing shall be performed by a certified tester.

Quality assurance (QA): The activities performed by the **Department/Agency** that have to do with making sure the quality of a product or process meets the relevant contract requirements. All testing shall be performed by a certified tester.

Verification Testing: Sampling and testing performed by the Department/Agency to validate the quality of the product per Title 23-Highways, Code of Federal Regulation 637.203. **Part of QA.**

2022 SALT Schedule of Materials Control – Local Government Agency

Material Acceptance Summary Instructions



STATE AID FOR LOCAL TRANSPORTATION
MATERIAL ACCEPTANCE SUMMARY

Rev. February 2019

SP/SAP(s)

Bid Item/ Spec No.	Item Description	Approved/ Qualified Product List (date checked)	Certificate of Compliance (date rec'd)	Accepted by Engineer* (date)
2105.604	Geotextile Fabric	5/26/18	5/26/18	6/6/18
2105.604	Soil Stabilized Geogrid	5/30/18	5/30/18	6/6/18
2357.506	Bituminous Material for Tack Coat	6/6/18	6/6/18	6/6/18
2573.503	Silt Fence, Type MS	5/14/18	5/14/18	6/6/18
2582.503	Epoxy Pavement Marking	7/30/18	7/30/18	7/31/18
3592	Drop-on Glass Beads	7/30/18	7/30/18	7/31/18
2574.508	Fertilizer Type 3	---	8/6/18	8/6/18
2575.508	Seed Mixture 22-111	8/6/18	8/6/18	8/6/18

Example
Project

Date checked the
Approved/Qualified
product list. Print
and file copy of
approved list on
acceptance date.

Date the
certification was
received. See
specification 1603.3

Date accepted
by the
engineer.

* This item is hereby accepted by the Engineer as materially compliant for use on this project per the terms of specification 1501.1, subset (1).

Approved by Project Engineer: _____ Date: _____
 Print Name: _____

2022 SALT Schedule of Materials Control – Local Government Agency

Material Acceptance Summary



Rev. February 2019

SP/SAP(s)

Bid Item/ Spec No.	Item Description	Approved/ Qualified Product List (date checked)	Certificate of Compliance (date rec'd)	Accepted by Engineer* (date)

* This item is hereby accepted by the Engineer as materially compliant for use on this project per the terms of specification 1501.1, subset (1).

Approved by Project Engineer: _____ Date: _____
 Print Name: _____ Phone: _____

For an electronic Word version of this form, please visit the State Aid Construction webpage at <http://www.dot.state.mn.us/stateaid/construction/materials-ac-summary.doc>.

2022 SALT Schedule of Materials Control – Local Government Agency

Bituminous Quality Management

The Contractor shall provide and maintain a quality control program as detailed in Specification 2360.2.G. The Engineer shall review the quality control program for compliance.

	Type of Test	Spec Section (1)	Contractor / Producer - QC Testing Rates	Agency - QA Testing Rates	
Start-Up Testing Rates for the 1st 2000 tons (2)	Bulk Specific Gravity	2360.2.G.7.b	1 test per 500 tons 55 lb. sample 3 full cylinder molds (7)	(3) (10) 1 Verification Mixture Sample test per day, all Verification samples are from a split (QC/QA) sample.	
	Maximum Specific Gravity	2360.2.G.7.c			
	Air Voids (calculated)	2360.2.G.7.d			
	Asphalt Content	2360.2.G.7.a			
	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e			
	Gradation	2360.2.G.7.f			
	Fines to Effective Asphalt Ratio (calculated)	2360.2.G.7.a/f	1 test per 1000 tons (4) (5) (6) (7)		
	Coarse Aggregate Angularity (CAA)	2360.2.G.7.g			
Production Testing Rates	Fine Aggregate Angularity (FAA)	2360.2.G.7.h	1 test per 1000 tons 55 lb. sample 3 full cylinder molds (7)	(3) (10) Verification Mixture Sample test per day/ mix type, submit companion to the QC - CAA & FAA test results.	
	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a			
	Bulk Specific Gravity	2360.2.G.7.b			
	Maximum Specific Gravity	2360.2.G.7.c			
	Air Voids (calculated)	2360.2.G.7.d			
	Asphalt Content	2360.2.G.7.a			
	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e			
	Gradation (minimum of 1 per day)	2360.2.G.7.f			
	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a			
	Coarse Aggregate Angularity (CAA)	2360.2.G.7.g			(4) (5) (7)
	Fine Aggregate Angularity (FAA)	2360.2.G.7.h	(4) (6) (7)		
	TSR	2360.2.G.7.i	When directed by the Engineer		
	Aggregate Specific Gravity	2360.2.G.7.j	As directed by the Engineer		
	Mixture Moisture Content	2360.2.G.7.k			
Asphalt Binder (QA ONLY)	2360	(8) 1 qt. steel container for asphalt binder			
Asphalt Emulsion (QA ONLY)	2357	(9) ½ gal plastic container for asphalt emulsion. (Tack)			
Compaction / Density Requirements	2360.3.D	Review special provisions			
Small Quantity Requirements	< 500 tons per day may be accepted by the Engineer without testing.				

NOTES: Testing rates are minimum rates; additional testing is encouraged to ensure a quality product.

- (1)** Review Special Provisions & 2360.2G Mixture Quality Management.
- (2)** The testing rates apply only to mixtures that have not been tested on previous projects in the current year.
- (3)** The Agency will witness a minimum of 1 (one) QC mixture sampling and splitting. The Agency will take possession of all split QA samples immediately. The Agency will randomly submit one QA split sample to the District Lab for Verification testing. Additional verification samples can be taken at any time or location. When additional verification samples are taken, the contractor must test the Verification companion split of this sample and include the results in the QC program.
- (4)** The Contractor will retain the extracted gradation samples in containers with field identification numbers for a period of 10 calendar days. The Engineer will identify which extracted gradation sample is the Verification Companion Sample and whether it is to be tested for coarse and fine aggregate angularity.
- (5) At start-up or new Mix Design:** 2 tests/ day for a minimum of 2 days, then 1/day if CAA is met. If CAA > 8% of requirement, 1 sample/ day but test 1/ week. No testing required for Class A and B Aggregates.

2022 SALT Schedule of Materials Control – Local Government Agency

- (6) At start-up or new Mix Design:** 2 tests per day for a minimum of 2 days, then 1/day if FAA is met. If FAA > 5% of requirement, 1 sample/ day but test 1/week.
- (7)** Random number generation and determination of random sample location shall be consistent with Section 5 of ASTM D3665. The Engineer may approve alternate methods of random number generation.
- (8) During Asphalt Mixture Production (Field Verification):** Shall be from a certified supplier. Obtain asphalt binder samples from a sampling valve located between the pump and the drum. Contractor personnel will obtain samples, under the observation of a Department representative, by random selection from shipments of material at the project site. The samples shall be taken from the first load and subsequently 1 per 1000 tons of liquid asphalt binder for each supplier and grade of asphalt binder per contract. For contracts with less than approximately 25 tons (one truck transport) of asphalt binder, sampling may be waived. A minimum of 1 gallon of binder must be drawn and wasted from the sampling valve before the actual sample is drawn. Sample shall be sent in for verification testing.
- (9) During Mixture Production (Field Verification):** Shall be from a certified supplier. The Contractor will sample first shipment, then submit 1 per 50,000 gallons. Sample emulsified asphalt in clean ½ gallon plastic container with wide screw top and send to MnDOT Chemical Lab within 7 days of sampling. Sample all emulsified asphalt from the distributor. Sample shall be sent in for verification testing. No Samples required unless directed by the Engineer.
- (10)** Conduct random belt samples and test for aggregate quality as directed by the Engineer.

2022 SALT Schedule of Materials Control – Local Government Agency

Bituminous Specialty Items

Type of Test	Spec	Contractor/Producer – QC Testing Rates	Agency- QA Testing Rates
Gradation	2363	1 per 1,000 Ton with a minimum 1 per day.	1 per day. 35 lbs.
PASSRC & PASB	3139.3		
Micro-Surfacing	2354 3139.5	Stockpile: 1/1,500 Tons (min 1/day) Machine Hopper: 1/500 Ton (min 1/day)	Machine Hopper: 1/day, 30 lbs.
Seal Coat, Underseal & Otta Seal	2356 3137.2B	Stockpile: 1/1,500 Tons (min 1/day) Chip Spreader Hopper: 1/day	1/day from Hopper. 30 lbs.
% Crushing – CAA	2363	1 per 1,000 Ton with a minimum 1 per day.	1 per day from gradation test. 35 lbs.
PASSRC & PASB	3139.3		
Moisture / Aggregate	2354	Machine Hopper: 1/500 Tons (min 3/day)	1/day 2lbs
Micro-Surfacing	3139.5		
Sand Equivalence	2354	1/day	Test at Engineer discretion, 25 lbs.
Micro-Surfacing			
Flakiness Index	2356	Sample taken from first load on first day, submit to Agency: 30 lbs.	Agency will test at their discretion, see Lab Manual 1223
Bituminous Seal Coat & Bituminous Underseal			
Bituminous Mixture	2353	1/500 Tons, min 1/day. %AC, Gradation, Max SpG, Adj.AFT	1/day, 20 lbs. 1 cylinder from truck box.
UTBWC	3151.2G		
PASSRC & PASB	3151 2363		
Stone Matrix Asphalt - SMA Lab Manual 1203, 1204, 1205, 1211, 1214, 1806, 1807, 1808, 1813, 1853, 1854, 1855, AI SP-2 AASHTO T305	2365	Tests , %AC, gradation, Gmm, Gmb, Voids, VMA, CAA, Draindown, VCA, fines/effective asphalt. Rate, (1/1000 tons, min.1/day) Agg SpG, mix moisture, TSR to be tested as directed by Engineer. Submit companion 1 per day to agency: 3 full 6" by 12" cylinders	Tests: %AC, Gradation, Gmm, Gmb, Voids, VMA, CAA, VCA, fines/effective asphalt. Agency is not required to do draindown. Copy MDR to Project Engineer and Grading & Base Engineer.
Asphalt Binder Tests		Asphalt Emulsion List	Asphalt Binder List
UTBWC	2353 3151	Asphalt Binder: Sample first load, then 1/250,000 gallons. Sample size of 1 quart metal container. Emulsified Asphalt: Sample first load, then 1/50,000 gallons. Sample size of 1/2 gallon wide screw top plastic container.	
Micro-Surfacing	2354		
Seal Coat, Underseal & Otta Seal	2356		
Tack Coat	2357		
PASSRC & PASB	3151		
Asphalt Binder Rate	2354	Verify Application Rate 3/day	Verify Application Rate 1/day
Micro-Surfacing			
Fog Seal	2355	Verify Application Rate 1/day	Verify Application Rate 1/day
Seal Coat, Underseal & Otta Seal	2356		
Bit Tack Coat	2357		

2022 SALT Schedule of Materials Control – Local Government Agency

Specification 2215 - Cold Inplace Recycling (CIR), Stabilized Full Depth Reclamation (SFDR) and Cold Central Plant Recycling Bituminous (CCPR)

Test Type	Contractor/Producer QC Testing Rates	Agency QA Testing Rates	Grading & Base Manual/Form
Gradation SFDR (Simple) Pre-ground un-stabilized material	1 per mile - report sieves 2" & 3"	Run gradation at the discretion of the Engineer	.215 / 101 report sieve 2" & 3"
Gradation (Entire) (Material to be stabilized)	One per day, give split sample to the Engineer	Run gradation at the discretion of the Engineer	.215 / 101 report sieve 2", 1.5", 1.25", 1", 3/4", 3/8", #4, #10, #30.
Gradation (Simple) (Material to be stabilized)	1 per mile for SFDR & CIR. 1 per 2,000 ton for CCPR.	Run gradation at the discretion of the Engineer	.215 & .293 / 101 report sieve 2" & 1.5" for SFDR, 1.5" and 1.25" for CIR
CIR & SFDR Depth Check - Unstabilized and Stabilized	None	1 per day	.284 / 401
SFDR & CCPR Moisture – before injecting with bituminous.	1 per mile of anticipated daily production and after rain. 1 per mile for SFDR after mechanical drying.	Run moisture at the discretion of the Engineer	.245 Speedy tester not allowed.
Penetration Index (DCP) - SFDR only Unstabilized.	2 per mile	1 per mile	.255 / 205
Calibrate: mineral stabilizing agent application rate.	Once using design rate per vane feeder.	Observe contractor calibration	.286 or .287
Moisture: before injecting liquid bituminous material	1 per mile of daily anticipated SFDR & one after rain or mechanical drying out (disking, etc.).	none	.281 / 105
Yield: Mineral Stabilizing Agent and/or Liquid Bituminous Material	1 per transport load each type	1 per day each type	.286 & .287 / 402 & 403
Compaction: Nuclear density for SFDR stabilized and CIR	10 per lane mile, (see note below).	Observe the Contractor.	.282
Control Strip: SFDR Stabilized and CIR	Minimum of once per project	Observe the Contractor.	
Bituminous Material Samples		. 1 per 50,000 gallons; sample first load	1 quart each sample
Mineral Stabilizing Agent Samples	None	1 sample	none
Foaming asphalt checks expansion ratio & half life	1 per load	Observe the Contractor.	.285
Moisture (stabilized) - before placement of next layer during curing.	2 per day until moisture stabilizes & placement of HMA.	none	Grading & Base Manual

Note: The Engineer may require a Contractor to perform additional nuclear density tests in areas that the Engineer believes are failing density requirements.

2022 SALT Schedule of Materials Control – Local Government Agency

Grading and Base Construction Items (1 of 3)

		Material Type	Spec.	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Gradation Testing (2) (3)		Aggregate Surfacing	3138	1 / 1,000 CY (CV) stockpile gradation only required for material on hand.	> 250 yd ³ (CV) or 500 Tons and < 2000 yd ³ (CV) or 4000 tons. Material is a minimum of one lot (5) . Test two random samples from each lot and average. > 2000 yd ³ (CV) or 4000 Tons. Divide into lots with lot size (5) no greater than 2000 yd ³ (CV) or 4000 Tons. Test two random samples from each lot and average.	1/source 30 lb.
		Aggregate Base	3138			
		Shoulder Base Aggregate	3138			
		Drainable Aggregate Base (OGAB & DSB)	3136			
		Granular and Select Granular Material (borrow/embankment)	3149.2B	1/10,000 CY (CV) only required for material on hand.	1/40,000 yd ³ (CV)	1/source 30 lb.
		Stabilizing Aggregate	3149.2C			
		Reclamation FDR	3135.2B	None	Test at Engineer's discretion. Inspect for oversize chunks (+3"), after the motor grader has overturned the material	None
		Granular Filter	3601.2B	1/source - before delivery on the project. Only required for materials on hand. Spec 1906.2	1/ source	1/source 30 lb.
		Backfill Materials	3149.2D			
		Granular Bedding	3149.2F			
		Aggregate Bedding	3149.2G			
		Coarse Filter Agg.	3149.2H			
		Filter Aggregate	3149.2J			
		Sand Cover	3149.2K			
Proctor		Non-Granular Material Used to determine optimum moisture & maximum density.		None	1 per major soil, subgrade prep specified density requires 100% of proctor density.	1 sample 25 lb.
Sand Cone, Nuclear Density or LWD	Specified Density *	Non-Granular Material For non-granular material, i.e., material that does not meet 3149.2B.1	2106 3149	<p>AGENCY TESTING: Roadway Embankment: One test per 4,000 yd³ (CV) <u>or if test rolled, One test per 10,000 yd³ (CV)</u></p> <p>Transverse culverts & abutments: 1 test per every 2 feet of fill.</p> <p>Sidewalks / Trails, Structures and Longitudinal Trenches, ie water-main, storm sewer, sanitary sewer and retaining walls: 1 test per 500 feet of each structure length per every 2 feet of fill.</p> <p>Subgrade Preparation: One per 25 road stations.</p>		

2022 SALT Schedule of Materials Control – Local Government Agency

Grading and Base Construction Items (2 of 3)

Material Type	Spec.	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Penetration Index Method (DCP) or LWD *	Aggregate Base	3138	None	None
	Shoulder Base Aggregate	2211.3C		
	Reclamation FDR	3135.2B 2215.2C		
	Walks & Trails	2521		
	Granular Materials Subgrade Preparation (for materials meeting 3149.2B1)	3149.2B	AGENCY TESTING: Roadway Embankment: One test per 2,000 yd ³ (CV) <u>or if test rolled, One test per 6,000 yd³ (CV)</u> Transverse culverts & abutments: 1 test per every 2 feet of fill. Structures and Longitudinal Trenches: One test per 500 feet of each structure per 2 feet per fill. Sidewalks and Trails: 1 per 500 feet. Subgrade Preparation: One per 25 road stations.	
Moisture Content Test During All Compaction Methods (4)	Aggregate Base, Shoulder, Surfacing & Walks	3138	None	None
	Drainable Aggregate Base (OGAB & DSB)			
	Reclamation FDR	3135.2B	None	
	All Embankment Materials	2106 3149	None	
	Subgrade Preparation	2106 3149		
Percent Crushing	Particle Count (1)	1906.2	1 required for Material on hand	1 / source
	Aggregate Quality Tests	3138 3149 3601	1 required for material on hand, Spec 1906.2	1 / source unless directed by Engineer
Depth Check	Reclamation FDR	3135.2B	1/Mile.	1 per day unless directed by Engineer

2022 SALT Schedule of Materials Control – Local Government Agency

	Material Type	Spec.	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Test Rolling	Test Rolling (as directed in the special provisions)	2111	As directed by the Engineer the contractor will perform test rolling at the top of all <ul style="list-style-type: none"> • Subgrade • Base layers (2211) • Non-Stabilized FDR (2215) • Granular layers not meeting the requirements of 3149.2B2 (2106) • Minimum 12' width and 300' length. Agency to observe test rolling. 		

Verification Testing Samples are companion split samples to the QA sample:

- Companion gradation, proctor, QA crushing, aggregate quality samples not required 1,000 tons or less.
- Include the laboratory companion with the first field sample.
- Include the field sample results with the laboratory sample.
- Laboratories with AMRL Accreditation are not required to submit laboratory companion samples.
- Carbonate aggregate materials require 50 lb. samples for the laboratory testing.

NOTES:

(1) Percent crushing test is not required when the material is crushed from a quarry or contains 25% or greater recycled materials.

(2) Submit a laboratory companion to the first Acceptance Gradation sample for a bituminous extraction, see 3138.2C. Full Depth Reclamation samples are not required.

(3) The Certification of Aggregates and Granular Materials procedure and documentation of testing locations is at the discretion of the Engineer.

(4) For quality compaction per spec 2106.3G.2, test at Engineer's discretion.

(5) Lot sizes may be adjusted by the Engineer. This may be good practice if parts of the project are taking place in separate areas or at separate times, such as many turn lane or excavation areas or separate project stages.

* Review the Special Provisions. The Grading and Base Manual allows the nuclear density gauge, see pages 60 and 65.

NOTES:

Conversions: 1 ton = 0.55 yd3 (CV), 1 ton = 0.7 yd3 (LV), 1 yd3 (CV) = 1.8 tons.

Contact the MnDOT District IA Inspector to provide servicing of your Federal Aid Project.

Less than 500 tons (250 CY) may be accepted by the Engineer without testing.

Grading and Base Construction Items (3 of 3)

Guidelines for Required Crushing & Aggregate Quality Tests

	3149 Granular Materials	3138 Aggregate for Surface and Base	3136 Drainable Bases
Crushing	Yes, for Stabilizing Aggregate, Fine Aggregate Bedding and Medium Filter Aggregate. Test waived if material contains recycled at twice the minimum crushing requirement. Not required for quarried sources.	Yes, for Class 5, 5Q & 6. Test waived if material contains recycled at twice the minimum crushing requirement. Not required for quarried sources. Class 2 must contain 100% crushed quarry rock.	Yes. Not required for quarried sources.
Bitumen Content	At the discretion of the Engineer	At the discretion of the Engineer	Not applicable
LAR	Not applicable	Yes, if source is carbonate quarry and does not contain bitumen.	Yes
Insoluble Residue	Yes, if source is carbonate quarry and does not contain bitumen.	Yes, if source is carbonate quarry and does not contain bitumen.	Yes, if source is carbonate quarry.
Litho Exam & Shale Float Test	Yes, for Medium Filter Aggregate	Yes, for Class 3, 4, 5, 5Q & 6, when not from quarried rock, and does not contain bitumen.	Yes, when not from a quarried source.

Testing procedures in the [Grading & Base Manual](#).

Forms and worksheets at the [Grading & Base website](#).

Gradation worksheets at the [SALT Construction website](#).

****MAKE SURE TO FILL OUT THE REQUIRED PRELIMINARY AND FINAL GRADING AND BASE REPORTS AND SUBMIT TO PROJECT ENGINEER.****

http://www.dot.state.mn.us/materials/gradingandbasedocs/Forms/form001_08_043019.xlsx

2022 SALT Schedule of Materials Control – Local Government Agency

Certified Ready-Mix Concrete (1 of 3)

The Prime Contractor is responsible to assure that all ready-mix concrete used is produced by an annually Certified Ready-Mix plant as detailed in Specification 2461.3F.

Material Spec.	Test Type (Concrete Manual)	Contractor / Producer QC Testing Rates				Form		
bridge 2406.2 2411.2 2461.2 2461.3 general 2301** 2452.2 2461.2 2461.3 2506.2 2511.2 2514.2 2520.2 2521.2 2531.2 2533.2 2545.2 2554.2 2557.2 2564.2 2565.2	Concrete Plant Production Testing Rates *	Gradation (5-694.145) (5-694.148) 3126, 3131, 3137	For all JMF's & Bridge Deck Mix Designs Daily Concrete Quantity: 1 per fraction per source per day between 20 – 400 yd³ . If over 400 yd ³ per day, take a second gradation after the DAILY total exceeds 400 yd ³ . Bridge Deck Concrete must have passing gradations prior to mixing.				Concrete Agg. Work sheet, Agg. Grad. Control Charts, R-M Plant QC workbook. R-M Plant QA Workbook	
			For all other mix designs, Weekly Concrete Quantity: 1 per fraction per source per week between 20 – 400 yd³ . If over 400 yd ³ produced per week, take a second gradation after the WEEKLY total exceeds 400yd ³ .					
			Department Plant Monitor Testing Rates: Verification only Verification Sample: When weekly concrete quantity is ≥ 20 yd ³ : 1 per fraction per source per week, split and tested by both Agency and Contractor					
		Moisture Content (5-694.142)	QC rates:	1 every 4 hours When Daily Concrete Quantity ≥ 20 yd ³	QA rates:	None		
		Test Type	Agency QA Testing Rates (1)					
		Aggregate Quality (5-694.146)	Minimum of 1 per each fraction - use of MnDOT test results for the same 30-day time period is acceptable. <u>For all bridge deck concrete poured during the month:</u> Test monthly quality to 3137.2D2 for each coarse aggregate fraction. Designate 3137.2D2 on the sample card. Gradation results will be included with the monthly quality tests.					
		Coarse Aggregate (% Passing 200) (5-694.146)						
		Minimum Aggregate Sample Size All Aggregate Gradation and Quality samples require companions, double sample size						2410 Sample ID Card
		Aggregate Size	Gradation	Quality	Moisture	% -200 Course.Agg.		
		3/4" Plus, #4	30 lb.	50 lb.	2000 g	5000 g		
		3/4" Minus, #67	10 lb.	30 lb.	2000 g	2500 g		
		#7, CA-70	6 lb.	20 lb.	2000 g	2500 g		
		CIA to meet #67	6 lb.	20 lb.	500 g	500 g		
		CIA to meet JMF, FIA, CS, FS	500 g	20 lb.	500 g	500 g		
		CA-80, #89	1.1 lb. (500 g)	20 lb.	500 g	500 g		
Fine Aggregate	1.1 lb. (500 g)	20 lb.	500 g	-				

2022 SALT Schedule of Materials Control – Local Government Agency

Certified Ready-Mix Concrete (2 of 3)

Spec.	Test Type	Agency QA Testing Rates (1)	Form	
bridge 2406.2 2411.2 2461.2 2461.3	<u>Sampling Locations for Air, Slump (when required), Temperature and Cylinder Testing</u> First load each day per mix - Take sample after discharging approximately 1/4 yd3, stop further discharge until both slump and air content test are completed. The first load of concrete <u>must have passing air content and slump prior to placement.</u> Cast strength specimens from the same load as the air content and slump test. Test whenever adjustments are made to the mix. Take all tests at the point of placement. Subsequent tests - Sample from the middle portion of the load.			
	Air Content - Type 3 Concrete (5-694.541)	1 test per 100 yd3. Test first load each day per mix. Test when adjustments are made to the mix.		
	Slump (5-694.531)	Test first load each day per mix, then as necessary to verify passing slump. For Bridge Concrete: 1 test per 100 yd3. No testing required for slip form placement.		
	Air and Concrete Temperature (5-694.550)	Record temperature each time air content, slump or compressive strength specimen is performed/fabricated.		
general 2301** 2452.2 2461.2 2461.3 2506.2 2511.2 2514.2 2520.2 2521.2 2531.2 2533.2 2545.2 2554.2 2557.2 2564.2 2565.2	Concrete Field-Testing Rates	<u>General Concrete Grades F, G, M, P, and R:</u> 1 set of 3 cylinders per 300 yd3 per mix per day.	2409 Concrete Cylinder ID Card	
		Compressive Strength (5-694.511) Standard cylinder size is 4 x 8, use 6 x 12 with aggregate greater than 1 1/4". Review 2461.3G.5 Test Methods and Specimens.		<u>Bridge Concrete Grades B, S, and Y:</u> 1 set of 3 cylinders per 100 yd3, then 1 set of 3 cylinders per 300 yd3 per mix per day
		Agency will break 1 set of 3 cylinders at 28 days. Agency will cast up to 3 control cylinders, any additional control cylinders are the responsibility of the Contractor.		
		Cellular Concrete: 1 set of 4 cylinders (28 days) per day, fill in 2 equal lifts, <u>do not rod</u> , lightly tap the sides, cover and move to area with no vibration. Do not disturb for 24 hours.		

NOTES:

(1) Review the requirements of 2461.3F Certified Ready-Mix Concrete, 2461.3G Concrete Placement and 5-694.010 Inspector’s Checklist in the Concrete Manual.

***Small Quantity Requirements** are for less than 20 yd3 per day, Plant Monitoring is not required but **Concrete Field Testing is required.**

****Concrete Pavement:** Use Certified Ready-Mix Concrete testing rates when: a) The entire concrete paving project is less than 3,500 cu. yd. b) When a secondary plant is used to provide minor work.

2022 SALT Schedule of Materials Control – Local Government Agency

Certified Ready-Mix Concrete (3 of 3)

The Prime Contractor is responsible to assure that all ready-mix concrete used is produced by an annually Certified Ready-Mix plant as detailed in Specification 2461.3F.

Guidelines

- The testing rates shown in this Schedule of Materials Control are minimums. Take as many tests as necessary to ensure quality concrete. Should circumstances arise on a project which makes the testing rate impractical, contact the Concrete Engineering Unit.
- All samples shall be taken in a random manner using an appropriate number generator.
- The first load of concrete for any pour must have passing air content and slump results, prior to placing.
- If batching or field adjustments are made, test the adjusted load for air content and if suspect, slump, before it gets into the work. The Engineer will determine if additional testing is required after each water adjustment made during slip form placement. Continue to test for air content and slump, if suspect, when test results are inconsistent or marginal.
- If any field test fails, reject the concrete or if the Producer makes adjustments to the load to meet requirements, record the adjustments on the Certificate of Compliance. Retest the air content of the load, slump if required, and record the adjusted test results. Test the next load for air content and slump, if required, before it gets into the work.
- Material not meeting requirements shall not knowingly be placed in the work. If failing concrete inadvertently gets placed in the work, review either the MnDOT Standard Specifications for Construction or contact the Concrete Engineering Unit for monetary deduction recommendations.

Best practices

- It is recommended that the Agency Plant Monitor be present during critical pours, such as superstructure or paving concrete (i.e., 3A21, S mixes, JMF mixes).
- It is recommended that the Agency representative continually monitor the progress of all concrete pours in the field and review Certificate of Compliances. It is not a recommended practice to only perform minimum testing requirements and leave the pour.
- It is recommended to make standard strength cylinders after the first load of concrete unless that is the only load of concrete for that mix that day.
- The Agency is responsible for verification sampling. For safety and consistency in sampling and splitting of the sample, it is recommended that the agency and the producer/contractor obtain the verification sample in tandem. This will allow the producer/contractor to witness the sampling process and take possession of the verification companion.

2022 SALT Schedule of Materials Control – Local Government Agency

Concrete Plant and Field Materials

All materials must come from certified or qualified sources. All certified sources must state so on the delivery invoices. The most current list of certified/approved sources can be found at MnDOT Material website. Materials listed on the Approved/Certified Products List are not required to be sampled but need to be listed on the Material Acceptance Summary detailed in the SALT SMC. Samples can be submitted as directed by the Engineer.

	Material	Spec. No.	Agency QA Field Sampling Rate	Form No.
Concrete Plant Batching Materials	Portland Cement	3101	Shall be a Certified Supplier - For certified ready-mix and concrete paving sample rates: 1 sample when the plant is certified. Take additional samples if the plant changes sources or as the contract requires. The producer obtains a 5 lb. sample and stores the sample in a sealed container provided by the Agency and includes the supplier's delivery invoice from which the sample is obtained.	24300 ID Card Cement Samples
	Slag	3102		
	Blended Cement	3103		
	Fly Ash	3115		24308 Fly Ash
	Admixtures (Acceleration, Retarding, Water-Reducing, Air-Entraining, etc.)	3113	For all concrete: 1 sample of Air Entrainment and Type A Water Reducer in a 1/2-pint plastic container provided by the Agency when the plant is certified. Take additional samples if the plant changes sources or as the contract requires. The Producer should agitate the admixture tank prior to obtaining samples from dispensing tubes and store the samples in sealed plastic containers provided by the Agency.	2410 Sample ID Card
	Water	3906	1 Non-Potable Water sample in a 1-gallon clean glass or plastic container from a questionable source. Clarified Water: 1 per month during Department production	
Concrete Field Materials	Preformed Joint Filler	3702	Visual Inspection	2410 Sample ID Card
	Preformed Elastomeric Type	3721	1 per lot. Only materials from a qualified source. Link to Approved Products List.	
	Silicone Joint Sealer	3722		
	Hot Poured Elastomeric Type	3723 3725		
	Burlap	3751		
	Colored Concrete Membrane Curing Compound	3752	Visual Inspection - Use only from qualified source.	
	Membrane Curing Compound	3753 3754 3755	Visual Inspection - Use only pre-approved curing compounds.	
	Plastic	3756	Visual Inspection - Must be white opaque and free from holes.	
	Refer to the "Metals" schedule for sampling requirements for concrete reinforcement.			

2022 SALT Schedule of Materials Control – Local Government Agency

Concrete Pavement – Agency (1 of 2)

Test Type (concrete manual)	Spec.	Concrete Paving Batch Plant Agency QA Testing	Certified Ready-Mix Plant Agency QA Testing	Form
Gradation (1) (5-694.145) (5-694.148)	3126 3131 3137	Daily Concrete Quantity ≥ 500 Agency QA Testing Rates: Verification only Verification Sample: -, *1 per fraction per source per day, split and tested by both Agency and Contractor	Daily Concrete Quantity ≥ 100 yd ³ Agency QA Testing Rates: Verification only Verification Sample: -, *1 per fraction per source per week, split and tested by both Agency and Contractor	JMF Concrete Aggregate Workbook
Aggregate Moisture - QC Verification (2) (5-694.142)	2301	If w/c incentives apply: 1 per 1000 yd ³ or every 4 hours, whichever is greater. Take initial sample within the first 250 yd ³ .	If w/c incentives apply: 1 per 200 yd ³ or every 4 hours, whichever is greater. Take initial sample within the first 100 yd ³ .	Concrete W/C Ratio Work sheet
Water Content, Microwave Oven Verification (3) (5-694.532)	2301	Take initial sample within the first 250 yd ³ . At least one additional verification test should be taken if more than 1000 yd ³ is produced in a day.	Take initial sample within the first 100 yd ³ . At least one additional verification test should be taken if more than 400 yd ³ is produced in a day.	
Coarse Aggregate, -200 sieve (5-694.146)	3131 3137	Test Verification sample on the first day of production and each time the Contractor mobilizes the plant, changes the aggregate sources, or the cleanliness of the coarse aggregate is in question, then 1 per week randomly thereafter. -200 test may be performed at the lab instead at the plant at the discretion of the Engineer.		JMF Concrete Aggregate Workbook
Coarse and Fine Aggregate Quality (4)	3126 3131 3137	During concrete production: 1 randomly selected test each fraction every 20,000 yd ³ of production. Split the Quality sample 4 ways: 1) Provide 2 quarters of the sample to the producer/contractor. 2) Submit the remaining sample to the lab for quality testing including testing the -200 sieve on the coarse aggregate.		2410 Sample ID Card
Alkali Silica Reactivity (ASR) Testing	2301	1 per paving project per sand source. Provide one 5 lb. sample of: cement, supplementary cementitious material (fly ash or slag), and sand. Write "Project Specific ASR Testing" on all 3 sample cards. ASR Testing is not required if the entire project is less than 3,500 cubic yards.		2410 24300 24308
Coarse Aggregate Quality Testing of Incentive / Disincentive	3137	If coarse aggregate quality incentives apply: Test the Class B aggregates for % absorption and Class C aggregates for % carbonate including any other test necessary to make those determinations. Sample the 2 largest fractions in accordance with the following table and 2301:		Coarse Agg Quality Incentive / Disincentive Work sheet 2410 Sample ID Card
		Coarse Aggregate Quality Incentive/Disincentive Sampling Rates		
		Plan Concrete Cubic Yards	Samples per fraction	
		3,500 - 7,500	3	
		7,501 - 10,000	5	
		10,001 - 25,000	10	
25,001 - 50,000	15			
50,001 +	20			

*Use Certified Ready-Mix Concrete testing rates when: a) The entire concrete paving project is less than 3,500 cu. yd. b) When a secondary plant is used to provide minor work.

2022 SALT Schedule of Materials Control – Local Government Agency

Concrete Pavement – Agency (2 of 2)

Test Type	Spec.	Concrete Field Testing - Agency QA Testing	Form
Air Content before consolidation	Review Concrete Manual Website	1 correlation air test per day	
Concrete Temperature		Record temperature each time air content, slump or strength test specimen is performed/fabricated by the Agency.	
Flexural Strength		Supply beam boxes or cylinder molds. Cure and test beams and cylinders MnDOT standard beam box size is 6" x 6" x 20" unless others are approved by the Concrete Engineer.	2162 Test Beam Data
Opening to Traffic Strength		Supply beam boxes or cylinder molds for field control testing. Cure and test beams and cylinders.	
Concrete Pavement Texture		Determine texture testing locations using random numbers. Observe Contractor Testing when possible.	Probing, Coring, Texture and MIT-Scan T2 Report
Thickness		Determine probing and coring locations using random numbers. Initial pavement at core locations and re-initial the sides of specimens after coring to clearly verify their authenticity. Field measure cores to the nearest 1/8". Transport to the MnDOT Office of Materials and Road Research for final thickness determination	
Surface Smoothness/ Dowel and Tie Bar Steel Location		Observe Contractor Testing when possible	

NOTES:

(1) All gradation samples shall be taken in the presence of the Agency, unless otherwise authorized by the Engineer. All samples shall be taken off the belt leading to the weigh hopper unless otherwise approved by the Engineer. **All gradations and quality tests require companion samples.** If Coarse Aggregate Quality Incentive / Disincentives apply: The Agency may also use the QA samples for incentive / disincentive testing. Notify the Contractor/Producer to double the QC/QA sample size. If well-graded aggregate incentives apply: Use the Contractor's gradation results for well-graded aggregate incentive calculations as verified by Agency testing. Use the Well-graded Concrete Agg. Worksheet.

(2) If w/c incentives apply: Use aggregate moisture results for determining the water content to calculate the w/c incentive/disincentive. Use the Concrete W/C Ratio Calculation Worksheet and do not leave sample unattended. Microwave oven verification testing to verify the w/c ratio is completed in conjunction with Agency aggregate moisture testing. Do not leave samples unattended.

(3) If w/c incentives apply: Microwave oven verification testing to verify the w/c ratio is completed in conjunction with Agency aggregate moisture testing. Do not leave samples unattended.

(4) Prior to concrete production: Obtain pre-production samples for quality testing at least 16 hours prior to concrete production. Samples may be taken from the stockpile and -200 test may be performed at the lab instead at the plant at the discretion of the Engineer. If the entire project is <3,500 yd³, pre-production sampling is not required.

Minimum Aggregate Sample Size				
*companion required, double sample				
Aggregate Size	Gradation*	Quality*	Moisture	% -200 C.Agg
3/4" Plus, #4	30 lb.	50 lb.	2000 g	5000 g
3/4" Minus, #67	10 lb.	30 lb.	2000 g	2500 g
#7, CA-70	6 lb.	20 lb.	2000 g	2500 g
CIA to meet #67	6 lb.	20 lb.	500 g	500 g
CIA to meet JMF	500 g	20 lb.	500 g	500 g
FIA, CS, FS	500 g	20 lb.	500 g	-
CA-80, #89	500 g	20 lb.	500 g	500 g
Fine Aggregate	500 g	20 lb.	500 g	-

2022 SALT Schedule of Materials Control – Local Government Agency

Concrete Pavement – Producer/Contractor (1 of 2)

Test Type (concrete manual)	Spec.	Concrete Paving Batch Plant Contractor/Producer QC Testing	Certified Ready-Mix Plant Contractor/Producer QC Testing
Gradation (1) (5-694.145) (5-694.148)	3126 3131 3137	When > 250 yd ³ produced/ day: 1 per 2500 yd ³ per fraction per source. Take initial samples for aggregate gradation testing within the first 500 yd ³ . Test the verification companion sample on the day the sample was taken.	When 20-400yd ³ produced/ day: 1 per fraction per source. If over 400 yd ³ per day, take a second gradation after the total exceeds 400 yd ³ . Test the verification companion sample on the day the sample was taken.
Coarse Aggregate -200 sieve (5-694.146)	3131 3137	Test the verification companion sample. Test these samples at the plant.	
Aggregate Moisture QC Verification (2) (5-694.142)	2301	If w/c incentives do not apply: 1 per 1000 yd ³ , or 1 completed every 4 hours, whichever is the higher sampling rate.	If w/c incentives do not apply: 1 completed every 4 hours.
Water Content, Microwave Oven Verification	Review Concrete Manual 2301	If w/c incentives apply: Obtain the plastic concrete sample at the plant. See Concrete Manual (5-694.532)	
Unit Weight QC		Test one load of concrete per day at the plant. See Concrete Manual (5-694.542)	
Air Content QC (5-694.541)		Test the first load of concrete at the plant	
Coarse Aggregate Quality	3126 3131 3137	Test at Producer/Contractor Discretion	
Unit Weight		Test 1 load of concrete per day at the plant.	
Air Content for Type 3 Concrete (QC)		Test the first load of concrete at the plant.	
Coarse Aggregate Quality Testing for Incentive / Disincentive	3137	Test at the Contractor's discretion.	

* Use Certified Ready-Mix Concrete testing rates when: a) The entire concrete paving project is less than 3,500 cu. yd. b) When a secondary plant is used to provide minor work.

2022 SALT Schedule of Materials Control – Local Government Agency

Concrete Pavement – Producer/Contractor (2 of 2)

NOTES:

(1) Performing testing on representative material at the end of the most recent day of production is allowed. If well-graded aggregate incentives apply: Use the Contractor's gradation results for well-graded aggregate incentive calculations as verified by Agency testing. Washing the fine aggregate gradation (QC) sample is not required when the result on the -#200 sieve of the unwashed sample is less than 1.0%. Wash all fine aggregate Verification Companion samples.

(2) Complete the initial moisture content and adjust the batch water prior to the start of concrete production each day. If weather conditions allow, performing moisture testing on representative material at the end of production the prior evening is allowed. Enter results into the batching system in real time.

Test Type	Spec.	Concrete Field Testing - Contractor QC Testing
Air Content before consolidation for Type 3 concrete	Review Concrete Manual Website	1 per 300 yd ³ or 1 per hour, whichever is less. Test first load each day per mix.
Slump		Test slump if concrete is suspected to be outside of required slump range as directed by the Engineer.
Concrete Temperature		Record temperature each time air content, slump or strength test specimen is performed/fabricated by the Contractor.
Flexural Strength		For information only: 1 beam (28-day) per week per mix. 1 cylinder (28-day) per week per mix may be substituted at the discretion of the Engineer. Provide moist curing environments, fabricate beams or cylinders, deliver to curing site, and clean beam boxes
Opening to Traffic		For opening to traffic: Make field control beams within the last hour of concrete poured each day. Substitute field control cylinders for field control beams at the discretion of the Engineer. Maturity testing is allowed in lieu of field control cylinders or beams. Fabricate beams or cylinders, deliver to curing site, and clean beam boxes.
Concrete Pavement Texture		Perform texture testing at locations determined by the Engineer in accordance with the Contract
Thickness		Probe, scan and core at locations determined by the Engineer in accordance with the Contract
Surface Smoothness		Measure smoothness of the final concrete as required by the Contract. Perform all profiling in the presence of the Engineer unless otherwise approved by the Engineer.
Dowel Bar and Tie Bar Steel Location		For Concrete projects greater than 3500 yd ³ . On the first day and each day of slip form pavement: (1) Verify the adequacy of the dowel bar anchoring by scanning seven random doweled contraction joints in each subplot. (2) Verify the presence and alignment of tie bar steel by scanning 75 lin. Ft. in each subplot. If the Engineer determines the first day's dowel bar anchoring and tie bar placement processes are acceptable, the Engineer may allow a reduction in scanned joints in each subplot as follows: (1) Verify the adequacy of the dowel bar anchoring by scanning four random doweled contraction joints per subplot. (2) Verify the presence and alignment of tie bar steel by scanning 25 lin. ft. out of every subplot.

2022 SALT Schedule of Materials Control – Local Government Agency

Concrete Wearing Course for Bridges

Test Type (concrete manual)	Spec.	Contractor/Producer QC Testing	Agency QA Testing	Form
Gradation, Quality, Coarse Agg -200 QC/Verification (5-694.145) (5-694.146) (5-694.148)	3126 3137	<p>Prior to production: The Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source. Test Agency companion samples are Contractor's discretion.</p> <p>No quality tests are required.</p>	<p>Prior to production and each time aggregate is delivered to site: 1 gradation and quality per fraction prior to concrete production and each time aggregate is delivered to the site.</p> <p>Identify quality samples with a "Q" on the Sample ID Card and the Quality companion sample.</p>	2410 Sample ID Card
Air Content - Type 3 Concrete (Verification) (5-694.541)	2431	None	1 per 15 yd ³ , Test at beginning of pour each day.	Weekly Report of Low Slump Concrete
Slump (Verification) (5-694.531)		None	1 per 15 yd ³ Test at beginning of pour each day. For concrete from a concrete mobil, allow mix to hydrate 5 minutes before slump test to assure all cement is saturated.	
Compressive Strength (5-694.511)		None	1 cylinder (28 day) per 30 yd ³ , standard cylinder mold size is 4 x 8 inch.	
Cement	3101	None	Each time cement is delivered to site. Obtain a 5 lb. sample. Store sample in a sealed container and include the supplier's delivery invoice from which the sample is obtained.	2430 Sample ID Card
Admixtures	3113	None	Each time new lot/batch admixture is delivered to site: Obtain a ½ pint sample. Store the sample in a sealed plastic container.	2410 Sample ID Card
Test	Minimum Sample Size All gradation and aggregate quality tests require companion samples, double sample size. Samples taken at location identified on Contact Report located at plant.			
Gradation	6 lb. for # 7, 500 g for CA-80		500 g for Sand	
Quality	30 lb. for Coarse Aggregate		20 lb. Fine Aggregate	

2022 SALT Schedule of Materials Control – Local Government Agency

Concrete Pavement Repair – CPR for 3U18

Test Type	Spec.	Contractor/Producer QC Testing	Agency QA Testing For volumetric batching only.	Forms
Gradation, Quality, Coarse Agg -200	3126 3137	<p>Prior to production: The Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source.</p> <p>No quality test results are required. Test companion samples at Contractor's discretion.</p>	<p>Gradation: Prior to concrete production and each time aggregate is delivered to the site. 1 per aggregate fraction prior to production and each time aggregate is delivered to the site.</p> <p>Quality Testing & Coarse Agg -200: 1 test per aggregate fraction per source. The Agency may use the gradation results for the Quality Samples as a substitute for 1 required field gradation. Identify quality samples with a "Q" on the Sample ID Card and the Quality companion sample.</p>	2410 Sample ID Card
Air Content - Type 3 Concrete (Verification)	Review Concrete Manual Website	None	1 per 15 yd ³ or 1 per 4 hours whichever results in the highest sampling rate. Test at beginning of pour each day.	21412 Weekly Report of Low Slump Concrete
Slump (Verification)		None	1 per 15 yd ³ , Test at beginning of pour each day. Allow mix to hydrate 5 minutes before slump test to assure all cement is saturated. Test slump if concrete is suspected to be outside of required slump range.	
Compressive Strength		None	1 set of 3 cylinders (28 day) per 30 yd ³ . The Agency will cast up to three (3) field control cylinders, standard cylinder mold size is 4 x 8 inch.	
Type 1 Cement	3101	None	For Volumetric batching only: Each time cement is delivered to site. Obtain a 5 lb. sample. Store sample in a sealed container and include the supplier's delivery invoice from which the sample is obtained.	2430 Sample ID Card
Admixtures	3113	None	Each time new lot/batch admixture is delivered to site: Obtain a ½ pint sample. Store the sample in a sealed plastic container.	2430 Sample ID Card
Test	Minimum Sample Size All gradation and aggregate quality tests require companion samples, double sample size. Samples taken at location identified on Contact Report located at plant.			
Gradation	6 lb. for # 7, 500 g for CA-80		500 g for Sand	
Quality	30 lb. for Coarse Aggregate		20 lb. Fine Aggregate	

2022 SALT Schedule of Materials Control – Local Government Agency

Dowel Bar Retrofit – (DBR)

Test Type	Spec.	Contractor/Producer QC Testing	Agency QA Testing	Form
Gradation Testing (Verification), Quality Testing including, Coarse Agg -200	3137	<p>Prior to production: The Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source.</p> <p>No quality test results are required. Test companion samples are Contractor's discretion.</p>	<p>Gradation: Prior to concrete production and each time aggregate is delivered to the site. 1 per aggregate fraction prior to production and each time aggregate is delivered to the site.</p> <p>Quality Testing & Coarse Agg -200: 1 test per aggregate fraction per source. The Agency may use the gradation results for the Quality Samples as a substitute for 1 required field gradation. Identify quality samples with a "Q" on the Sample ID Card and the Quality companion sample.</p>	2410 Sample ID Card
Test Type	Spec.	Agency QA Testing		Form
DBR Material Compressive Strength	Review Concrete Manual	<p>Contractor Testing: Any additional field control cylinders are the responsibility of the Contractor.</p> <hr/> <p>Agency Testing: 1 set of 3 cylinders (28 day) The Agency will cast up to three (3) field control cylinders, standard cylinder mold size is 4 x 8 inch.</p>		2409 Cylinder ID Card
Test	Minimum Sample Size			
	All gradation and quality tests require companion samples, double sample size. Samples taken at location identified on Contact Report locates at plant.			
Gradation	500 g for # 89 & Sand			
Quality	30 lb. Coarse Aggregate		20 lb. Fine Aggregate	

2022 SALT Schedule of Materials Control – Local Government Agency

Landscaping and Erosion Control Items

Kind of Material	Spec. #	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Manufactured Topsoil Borrow, Salvaged Topsoil (stockpiled)	3877.2	As directed by the Engineer
Plant Stock & Landscape Materials	3861 and 2571.2A1	Materials must be in accordance with the Inspection and Contract Administration Guidelines for MnDOT Landscape Projects of which determines the minimum and maximum criteria thresholds. Certificate of Compliance, Nursery stock certificate registered with MN Dept. of Agriculture. Out of state products subject to pest quarantines must be accompanied by documentation certifying all products are free of regulated pests.
Erosion Control Blanket	3885	Visual Inspection and Check approved products or approved vendors list - As directed by the Engineer.
Erosion Control Netting	3885	
Silt Fence	3886	
Erosion Stabilization Mat	3885	
Flotation Silt Curtain	3887	Accepted, based on manufacturers certification of compliance. Check weight of fabric.
Filter Logs	3897	Visual Inspection
Flocculants	3898	Obtain copy of Certificate of Compliance and MSDS
Fertilizer	3881	Obtain copy of invoice of blended material stating analysis.
Agricultural Lime	3879	Contractor must supply amount of ENP (Equivalent Neutralizing Power) for each shipment.
Mulch - Type 3	3882	Certified Weed Free (Certified sources only) Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Mulch - Type 6 - Woodchips		All wood chips supplied by a supplier outside the Emerald Ash Borer quarantine area or have an Emerald Ash Borer Compliance Agreement with the MDA
Seeds	3876	(Certified Vendors Only) (Mixes 100-299) Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Native Seed		(Mixes 300-399) certified seed only. Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Sod	3878	Visual Inspection - Check approved products list - As directed by the Engineer. Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA) for salt tolerant sod.
Compost (from Certified Source)	3890	
Compost (from Non-Certified Source)		
Hydraulic Soil Stabilizer	3884	Check Approved/Qualified Products List - As directed by the Engineer.

2022 SALT Schedule of Materials Control – Local Government Agency

Chemical Items

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Asphalt Plank	3204	Visual Inspection - As directed by the Engineer.
Calcium Chloride	3911	Review the percentage required as per specification. Check for listing on Qualified Products website.
Magnesium Chloride	3912	
Hot-Pour Crack Sealant (for Crack Sealing/Filling)	3719 3723 3725	Retain Certification of Compliance. Check for listing on Qualified Products website.
Pavement Joint Adhesive	Special Provisions	Retain Certification of Compliance
Waterproofing Materials		
Membrane Waterproofing System	3757	Visual Inspection - Check qualified products list.
Waterproofing Materials - Three Ply System		
Asphalt Primer	3165	Verify supplied material meets ASTM D 41
Waterproofing Asphalt	3166	Verify supplied material meets ASTM D 449
Fabric	3201	Verify supplied material meets ASTM D 41
Paints		
Waterborne Latex - Traffic Paint	3591	Visual Inspection - Check qualified products list - retain Certificate of Compliance.
Epoxy Traffic Paint	3590	
Traffic Marking Paint	Special Provisions	
Non-Traffic Striping Paints	3500 Series	Retain Certification of Compliance
Bridge Structural Steel Paint	3520	Visual Inspection - Check approved products list - retain Certificate of Compliance.
Exterior Masonry Paint	3584	
Noise Wall Stain	Special Provisions	
Drop-on Glass Beads	3592	Visual Inspection - Check qualified products list. Retain Certificate of Compliance.
Pavement Marking Tape	3354 3355 Special Provisions	Visual Inspection - Check qualified products list. Retain Certificate of Compliance.
Signs and Markers	3352	Visual Inspection - Check qualified products list.

2022 SALT Schedule of Materials Control – Local Government Agency

Metals (1 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate) *
Guard Rail		
Fittings - Splicers, Bolts, Posts etc.	3381	Visual Inspection - Materials shall be approved before use. Call MnDOT inspector at 218-846-3613 to see if material has been approved.
Structural Plate Beam	3382	
Non-High Tension Guard Rail Cable	3381	
High Tension Guard Rail Cable	Special Provisions	
Steel Posts		
Steel Signposts	3401	Visual Inspection - As directed by the Engineer. Retain Certificate of Compliance in Project file.
Fence Posts, Brace Bars, Rails and others	3403	Visual Inspection - As directed by the Engineer. Retain Certificate of Compliance and certified mill analysis in project file.
	3406	
	3379	
Fence		
Barbed Wire	3376	Visual Inspection Retain Certification of Compliance, As directed by the Engineer.
Woven Wire		
Chain Link Fabric		
Components: cup, cap, nut, bolt, end clamp, tension band, truss rod tightener, hog ring, tie wire, tension stretcher bar, truss rod, clamp & tension wire		
Gates		
Pipe		
Water Pipe and other Piping Materials	3364, 3365, 3366 & Special Provisions	Visual Inspection - As directed by the Engineer.
Reinforcing Steel - Inspected by MnDOT & will be charged back to the Local Agency.		
Uncoated Bars	3301	Retain Certificate of Compliance & Certified Mill Analysis
Epoxy Coated Bars	3301	For Epoxy-Coated bars, steel will be tagged "Inspected" when it has been sampled and tested by Mn/DOT prior to shipment, & it will be tagged "Sampled" when testing has not been completed prior to shipment. If the Epoxy-Coated bars are not tagged "Sampled" or "Inspected", submit samples (1 bar 3ft long for each size for each day's coating production), Certificate of Compliance, & Certified Mill Analysis for testing. Maintain original Cert. of Compliance & Certified Mill Analysis in project file.
Spirals	3305	
Stainless Steel Bars	Special Provisions	Visual Inspection Testing as directed by the Engineer (2 bars 3 ft. long per heat per bar size). Certified Mill Test Reports to be filed.

2022 SALT Schedule of Materials Control – Local Government Agency

Metals (2 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate) *	
Reinforcing Steel - Inspected by MnDOT & will be charged back to the Local Agency.			
Steel Fabric	3303	2 sq. ft. if epoxy coated.	Visual Inspection - Retain Certificate of Compliance.
Dowel Bars	3302	One dowel bar and basket from each shipment.	
Prestress/Post Tension Strands	3348 Spec Prov	One sample of 2 strands by 6 ft. from each heat/production lot.	
Castings			
Drainage Castings	3321 2471	Visual Inspection - Check approved / qualified list.	
Electrical	2565		
Anchor Rods (Cast in Place) and Structural Fasteners	3385 3391	Visual Inspection - Check approved / qualified list. Testing as directed by the Engineer (see notes below)	
<p>Notes: Manufacturer must have one yearly passing test from the Department for each anchor rod or bolt type. Prior to installation, obtain copy of MnDOT passing test report from supplier. Specs 3385.2 A, B, & C require anchor rod markings per ASTM F 1554 S3. The end of each anchor bolt intended to project from the concrete must be die stamped with the grade identification as follows: Grade 36 = AB36, Grade 55 = AB55, Grade 105 = AB105.</p>			
Anchorages (Drilled In)	Special Provisions	Visual Inspection - Check qualified products list.	
Structural Steel	Inspected by MnDOT & will be charged back to the Local Agency.		
Steel Bridge - Beams, Girders, Diaphragms, etc.	2471	Structural Metals Inspection Tag and field inspection for damage/defects, check dimensions for contract compliance. Review approved products list as directed by the Engineer. Note: Structural metals products will be inspected at the plant and will be shipped with a Structural Metals Inspection Tag. An inspection confirmation report will be completed by Structural Metals Inspection staff and sent to the field personnel. Only approved suppliers are allowed to supply Structural Metals products. A list of approved suppliers can be found on the Bridge Office website .	
Concrete Girders- Diaphragms and sole plates			
Expansion Joints			
Steel Bearings			
Railing-Structural tube and ornamental			
Drainage Systems			
Protection Angles			
Overhead Sign structures	2564 2471	Structural Metals Inspection Tag and field inspection for damage/defects, check dimensions for contract compliance. Review approved products list as directed by the Engineer. Note: Structural metals products will be inspected at the plant and will be shipped with a Structural Metals Inspection Tag. An inspection confirmation report will be completed by Structural Metals Inspection staff and sent to the field personnel. Only approved suppliers are allowed to supply Structural Metals products. A list of approved suppliers can be found on the Bridge Office website .	
High Mast Lighting Structures	2545 2471		
Monotube Signal Structures	2565 2471		

*Check domestic steel requirement under 1601 Special Provision.

2022 SALT Schedule of Materials Control – Local Government Agency

Geosynthetics, Pipe, Tile, Precast/ Prestressed Concrete

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Corrugated Metal Products		
Culvert Pipe Under drains Erosion control Structures	3225 thru 3229, 3351, 3399	Make certain pipe is Certified on Invoice, retain certificate of compliance and certified mill analysis in project file.
Structural Plate	3231	
Aluminum Structural Plate	3233	Retain the Certificate of Compliance and mill analysis in project file.
Pipe		
Clay Pipe	3251	Visual Inspection
Reinforced Concrete Pipe and Arches, Precast Cattle Pass Units, Sectional Manhole Units	3236	Field Inspection: Check for damage and defects. Check dimensions and class as required.
Non-Reinforced Concrete Pipe	3253	
Drain Tile (Clay or Concrete)	3276	Visual Inspection - Acceptance as directed by the Engineer.
Thermoplastic (TP) Pipe ABS and PVC	3245	Obtain Certificate of compliance. Check for approved marking printed on pipe. Field Inspect for damage or defects.
Corrugated Polyethylene Pipe	3278	Check for markings (AASHTO M 252) Certificate of Compliance. Field Inspect for damage or defects.
Corrugated Polyethylene Pipe - Dual Wall 12"-48"	3247	Visual Inspection - Check approved products list. Obtain Certificate of Compliance.
Precast/Prestressed Concrete Structures - Inspected by MnDOT & will be charged back to the Local Agency.		
Reinforced Precast Box Culvert	3238	Field Inspection: Check for damage and defects. Check dimensions as required. Check for the "MnDOT" stamp and signature on the certification document.
Precast/Prestressed Concrete Structure (beams, posts, etc.)	2405	
Manholes and Catch Basins	2506 3622	
Sewer Joint Sealing Compound	3724	Visual Inspection - Acceptance as directed by the Engineer.
Preformed Plastic Sealer for Pipe	3726 Type b	Visual Inspection - Acceptance as directed by the Engineer.
Bituminous Mastic Joint Sealer for Pipe	3728	
EPS Geofoam	Special Provisions	Visual Inspection - Acceptance as directed by the Engineer. Check for yellow aged material, uniformity and dimensions.
Geotextile Fabric and Geogrid Reinforcement	3733 and Special Provisions	Obtain Certificate of Compliance stating minimum average roll values (MARV). MARV must meet Project requirements. Fabric must be listed on Geotextile Small Quantity Acceptance List .
Geotextile Small Quantity Acceptance List		
Silt Fence	3886	Visual Inspection - Check approved products list.

2022 SALT Schedule of Materials Control – Local Government Agency

Electrical and Signal Equipment Items (1 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Lighting Standards (Aluminum or Steel)	3811	Visual Inspection - Obtain Certificate of Compliance. The Fabricator will submit "Certificate of Compliance," on a per project basis, to the Project Engineer.
Hand Holes (Precast, PVC, and LLDPE)	2545	Visual Inspection - Check approved/qualified products list. Traffic signal and street lighting projects require hand holes to be listed on the MnDOT Signals Approved Products List (APL). For cast iron frame and cover: see Metals - Drainage and Electrical Castings
	2550	
	2565	
Foundation	2545	Slump as needed, 1 cylinder per 25 cu. yds. Rebar is required in concrete foundations as specified in the Contract documents for all traffic control signals and roadway lighting projects.
Steel Screw In Foundations	2545 2565	See Approved/Qualified Products List for Roadway Lighting and Signals.
Conduit and Fittings		
Metallic	3801	Visual Inspection - Conduit shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL). For traffic signal and street lighting projects, specific requirements are contained in the Special Provisions for each project.
	3802	
Non-Metallic (Rigid and HDPE)	3803	
	Special Provisions	
Anchor Rods and Bolts (Cast in Place)	3385	
Anchorages (Drilled In)	Special Provision	Visual Inspection - Check qualified products list.
Miscellaneous Hardware	2545 2565	Visual Inspection - Check approved products list. Will carry "Inspected" tag if sampled and tested prior to shipment. No sample necessary if "Inspected". Do not use if not tested. Field sample at sampling rate for laboratory testing. For traffic signal and street light lighting projects, various miscellaneous hardware is required to be listed on the MnDOT Signals and Lighting Approved Products Lists (APL). The Contract documents indicate, which items must be on the Signals and/or Lighting APL.

2022 SALT Schedule of Materials Control – Local Government Agency

Electrical and Signal Equipment Items (2 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Cable and Conductors		
Power Conductors	3815.2B1	Visual Inspection - Make certain the conductors are the type specified. Submit Field Inspection report showing type and quantities used. Shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL) and type where applicable.
Loop Detector Conductors (No Tubing)	3815.2B2 (a)	
Electrical Cables and Single Conductors with Jacket	3815.2B2(b) 3815.2B3	Visual Inspection - Usually inspected at the distributor. Documentation showing project number, reel number(s), & MnDOT test number(s) will be included with each project shipment. If such documentation is not received from Contractor, submit sample for testing along with material certification from manufacturer. Do not use if not tested. Pre-inspected materials will not be tagged; an inspection report will be sent by the MnDOT inspector for each shipment. Project inspectors should verify that the shipping documents agree with this inspection report. Call Steve Grover at 651-366-5540 or Cindy Schellack at 651-366-5543 with questions. For traffic signal and street lighting projects, the Special Provisions for each project contain electrical cable and conductor specifications.
	3815.2B5	
	3815.2C1 thru .2C8	
	3815.2C14	
Fiber Optic Cables	3815.2C13	Visual Inspection - Check approved products list for Traffic Management Systems.
Ground Rods	2545	Visual Inspection - Check approved products list. Shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL). Detail materials on Materials Acceptance Summary.
	2565	
Luminaires and Lamps	3810	Visual Inspection - Check approved products list. Traffic signal and street lighting projects require luminaires and lamps to be listed on the MnDOT Lighting Approved/Qualified Products List (APL). The conductors shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL) and type, where applicable.
Electrical Systems	2565	Electrical Systems are to be reported as a "System" using the LIGHTING, SIGNAL AND TRAFFIC RECORDER INSPECTION REPORT. To be certified by the Project Engineer.
Traffic Signal Systems	2565	Traffic Signal Systems are to be reported as a "System" using the LIGHTING, SIGNAL AND TRAFFIC RECORDER INSPECTION REPORT. To be certified by the Project Engineer.

2022 SALT Schedule of Materials Control – Local Government Agency

Brick, Stone and Masonry Units

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Brick		
Sewer (clay) and Building	3612 to 3615	Visual Inspection - Acceptance as directed by the Engineer.
Sewer (Concrete)	3616	Visual Inspection - Acceptance as directed by the Engineer. Air entrainment required. Obtain air content statement from supplier.
Concrete Masonry Units		
Sewer Construction	3621	Visual Inspection - Acceptance as directed by the Engineer. Air entrainment required. Obtain air content statement from supplier.
Modular Block Retaining Walls	Review Current Special Provisions	Visual Inspection - Note: All lots of block upon delivery shall have Manufacturer or Independent laboratory test results to verify passing both compression and freeze-thaw requirements. * Wall units and cap units are considered separate block types.
Reinforced Concrete Cribbing	3661	Visual Inspection - Acceptance as directed by the Engineer. Will be stamped when inspected prior to shipment.
Stone for Masonry or Rip-Rap	2511, 3601 and Special Provisions	Visual Inspection - Acceptance as directed by the Engineer.

Remarks: each source shall be approved by Project Engineer or supervisor for quality, prior to use. For questions on quality, contact District Materials or Geology Unit.

2022 SALT Schedule of Materials Control – Local Government Agency

Miscellaneous Materials

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Timber, Lumber Piling & Posts	3412 to 3471 & 3491	Visual Inspection - Acceptance as directed by the Engineer. Untreated materials shall be inspected in the field. Treated materials shall be Certified on the Invoice or Shipping Ticket. Material is inspected and stamped by an Independent Agency as per Specification 3491. Contact Laboratory for additional information.
Miscellaneous pieces and Hardware (Galvanized)	3392 3394	Visual Inspection - Acceptance as directed by the Engineer.
Insulation Board	3760	
Elastomeric Bearing Pads - Plain or Laminated	3741 and Special Provisions	Check dimensions. Check repair of tested pad. Obtain copy of Certificate of Compliance. DO NOT USE ANY PADS THAT ARE NOT CERTIFIED.
Cotton Duck Bearing Pads		

2022 SALT Schedule of Materials Control – Local Government Agency

Approved/Qualified Products & Resources

Approved/Qualified Products

- [Asphalt Products](#)
- [Bridge Products](#)
- [Concrete Products](#)
- [Crack and Joint Material Products](#)
- [Drainage](#)
- [Erosion Control and Landscaping Products](#)
- [Geosynthetic](#)
- [Maintenance Shop Supplies](#)
- [Paint/Stain/Coating Systems \(Non-Pavement\)](#)
- [Pavement Markings](#)
- [Precast Concrete](#)
- [Roadside Barriers](#)
- [Roadway Lighting Products](#)
- [Signals Products](#)
- [Signing Products](#)
- [Snow and Ice Chemical Products](#)
- [Temporary Traffic Control Devices](#)
- [Traffic Management Systems/ITS](#)
- [Truncated Domes](#)
- [Vehicle Safety Lighting](#)
- [Walls \(Retaining/Noise\)](#)

Additional Resources

- [SALT Construction webpage](#)
- [Bituminous Engineering](#)
 - [Asphalt Binder Certified Supplier](#)
 - [Asphalt Emulsion Certified Supplier](#)
- [Concrete Engineering](#)
 - [MnDOT Concrete Manual](#)
 - [QC & QA RM Plant Workbooks](#)
 - [MnDOT Certified Ready-Mix Program](#)
- [Grading & Base Engineering](#)
 - Testing procedures in the [Grading & Base Manual](#)
 - Forms and worksheets at the [Grading & Base website](#)
 - Gradation worksheets on the [SALT Construction website](#)

2022 SALT Schedule of Materials Control – Local Government Agency

Contacts

MnDOT Construction and Materials State Aid Contacts

Districts 1, 2, 3, 4

Ross Hendrickson, State Aid Construction Specialist

ross.hendrickson@state.mn.us

218-766-3745

Districts 6, 7, 8

Rollin Larson, State Aid Construction Specialist

rollin.larson@state.mn.us

507-205-6403

Metro

Michael Pretel, State Aid Construction Engineer

michael.pretel@state.mn.us

651-755-3346

Kyle Puent, State Aid Construction Specialist

kyle.puent@state.mn.us

612-505-7395

MnDOT Specialty Offices Contacts

Grading & Base

Terry Beaudry terry.beaudry@state.mn.us	Grading & Base Engineer	651-366-5456
John Bormann john.bormann@state.mn.us	Grading & Base Specialist	651-366-5496

Bituminous*

John Garrity john.garrity@state.mn.us	Bituminous Engineer	651-366-5577
Greg Johnson Greg.johnson@state.mn.us	Asst. Bituminous Engineer	651-366-5464
Chelsea Bennett chelsea.bennett@state.mn.us	Asst. Bituminous Engineer	651-366-5482
Joel Ulring joel.ulring@state.mn.us	Pavement Preservation	651-366-5432
Deb Evans	Bituminous Engineer Specialist	651-366-5574
Ray Betts ray.betts@state.mn.us	Bituminous Trial Mix Lab Tech	651-366-5469

*See website for the contact list by topic

Concrete*

Maria Masten maria.masten@state.mn.us	Concrete Engineer	651-366-5572
Jacob Gave jacob.gave@state.mn.us	Asst. Concrete Engineer	612-554-9289
Rob Golish robert.golish@sate.mn.us	Asst. Concrete Engineer	651-366-5576

2022 SALT Schedule of Materials Control – Local Government Agency

Matt Herbst Matt.herbst@state.mn.us	Concrete Engineer Specialist	651-366-5423
Brad Swenson brad.swenson@state.mn.us	Concrete Engineering Specialist	218-232-1012
Gordy Bruhn gordon.bruhn@state.mn.us	Concrete Field Eng. Specialist	651-366-5523

*See website for the contact list by topic

Contacts for other materials can be found on the [Materials and Road Research Contacts webpage](#).

Contacts for Approved Products can be found at the [Approved/Qualified Products Contact webpage](#).

Materials Lab. Contacts	Independent Assurance	
<p>District 1, Duluth</p> <p>Leila DeLuca, Wyatt Driskell, Cody Desmodt</p> <p>Phone: 218-725-2738 D1.duluth.lab.dot@state.mn.us</p>	<p>Nadine Miller Phone: 218-725-2737 Cell: 218-348-6297 nadine.miller@state.mn.us</p>	
<p>District 2, Bemidji</p> <p>Jason Kissel Phone: 218-755-6542 Jason.kissel@state.mn.us Fax: 218-755-6540</p>	<p>Ray Wesley Cell: 218-766-6949 raymond.wesley@state.mn.us</p>	
<p>District 3A, Baxter</p> <p>Tom Boser Phone: 218-828-5755 tom.boser@state.mn.us Fax: 218-828-5816</p>	<p>Matt Miles Phone: 218-828-5759 Cell: 218-232-6748 Matt.miles@state.mn.us</p>	
<p>District 3B, Saint Cloud</p> <p>Teresa Mertens Phone: 320-223-6555 Cell: 320-241-6290 teresa.mertens@state.mn.us Fax: 320-223-6582</p>		
<p>District 4, Detroit Lakes</p> <p>Bruce Bryngelson Phone: 218-846-3614 bruce.bryngelson@state.mn.us</p> <p>Wayne Koons Phone: 218-846-3617 wayne.koons@state.mn.us Fax: 218-846-0744</p>	<p>Casey Clarke Phone 218-846-7693</p> <p>Cell: 218-849-7393</p> <p>casey.clarke@state.mn.us</p>	
<p>Metro District, Maplewood Lab</p> <p>Mike Evans Phone 651-366-5409 michael.evans@state.mn.us</p> <p>Brent Scolley</p>	<p>Waters Edge</p> <p>Steve Reinardy Phone: 651-755-1581 Steve.reinardy@state.mn.us</p> <p>Mike Amiot</p>	<p>Phone: 651-234-7356</p>

2022 SALT Schedule of Materials Control – Local Government Agency

<p>Phone 651-366-5410 brent.scolley@state.mn.us Mike Skurdalsvold Phone 651-366-5424 michael.skurddalsvold@state.mn.us Fax: 651-366-5408</p>	<p>Phone: 651-755-1042 mike.amiot@state.mn.us Greg Bohmert Phone: 651-755-1005 greg.bohmert@state.mn.us Kaleb Kollmann Phone: 651-478-0339 kaleb.kollmann@state.mn.us</p>
<p>District 6, Rochester Scott Swanson Phone: 507-286-7580 scott.swanson@state.mn.us Jeff Bale (Aggregates) Phone: 507-286-7586 jeff.bale@state.mn.us Joe Drees (Bituminous) Phone: 507-286-7582 Joe.drees@state.mn.us Fax: 507-285-7112</p>	<p style="text-align: center;">Dennis Hayes</p> <p style="text-align: center;">Cell: 507-251-0138 dennis.hayes@state.mn.us</p>
<p>District 7, Mankato Lee McLaughlin Phone: 507-304-6186 mark.schoeb@state.mn.us Phone: 507-304-6189 Fax: 507-304-6191</p>	<p>Mitch Jordahl Cell:507-380-9619 Mitch.jordahl@state.mn.us</p>
<p>District 8A, Willmar Jon Vlaminck Phone: 320-214-6348 Fax: 320-214-6306 District 8B, Marshall Phone: 507-537-2068 Fax: 507-537-3802</p>	<p style="text-align: center;">Paul Janke</p> <p style="text-align: center;">Cell: 320-212-5739 Jon.vlaminck@state.mn.us</p>

2022 SALT Schedule of Materials Control – Local Government Agency

Sample Sizes

Lbs.

Bituminous	35	Aggregate for Gradation QC/QA
	80	for each plus #4 Aggregate Type for Quality Testing
	35	for each minus #4 Aggregate Type for Quality Testing
	80	for each RAP material for Quality Testing
	10	RAS (shingles) for Processed Gradation and Quality Testing
	65	for Mix Properties (QC/QA) 3 full 6" by 12"-cylinder molds for QA
	90	for TSR (QC/QA) 4 full 6" by 12"-cylinder molds for QA
	90	for Aggregate Specific Gravity QC/QA
	-	1 quart of Asphalt Binder QA
	-	1/2 gallon for Asphalt Emulsion QA
Grading & Base	30	Aggregate for Gradation (Companion sample from 60 lb. split).
	25	Moisture Density Test – Proctor (Companion from 50 lb. split).
	30	Aggregate Quality/Percent Crushing Test - 1 per source
Ready-Mix Concrete	25	Gradation 3/4" plus
	10	Gradation 3/4" minus
	6	Gradation CA 70 & #7
	1	Gradation - Sand (500 g), CA 80, #89.
	4.4	Moisture Test Coarse Aggregate (2000 g)
	1.1	Moisture Test Fine Aggregate (500 g)
	50	Quality 3/4" plus - lab sample
	30	Quality 3/4" minus - lab sample
	30	Fine Aggregate - lab sample
	10	3/4" Plus for the -200 Coarse Aggregate Test (5000 grams)
	6	3/4" Minus for the -200 Coarse Aggregate Test (2500 grams)
	5	Cement, Blended Cement, Fly Ash
	-	1/2-pint plastic container for admixtures.

SCHEDULE OF PRICES					
S.A.P. 002-628-008					
ITEM NO.	ITEM	UNIT	QUANTITIES	UNIT PRICE	TOTAL
2021.501	MOBILIZATION	LUMP SUM	1	\$50,000.00	
2101.505	GRUBBING	ACRE	0.4	\$25,000.00	
2104.502	REMOVE MARKER	EACH	4	\$40.00	
2104.502	REMOVE SIGN	EACH	4	\$145.00	
2104.502	REMOVE ENERGY ABSORBING TERMINAL	EACH	4	\$385.00	
2104.503	REMOVE GUARDRAIL-PLATE BEAM	LIN FT	460	\$5.50	
2104.503	REMOVE TEMP PRECAST CONCRETE BARRIER	LIN FT	262	\$9.00	
2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	53	\$5.00	
2104.503	REMOVE PIPE CULVERTS	LIN FT	38	\$25.00	
2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	733	\$10.00	
2104.601	REMOVE REGULATED WASTE MATERIAL (BRIDGE)	LUMP SUM	1	\$5,000.00	
2106.507	EXCAVATION - COMMON	CU YD	520	\$50.00	
2106.507	COMMON EMBANKMENT (CV)	CU YD	1250	\$20.00	
2106.507	SELECT GRANULAR EMBANKMENT (CV)	CU YD	1010	\$35.00	
2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD	330	\$40.00	
2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	100	\$50.00	
2360.509	TYPE SP 12.5 WEARING COURSE MIX (3,C)	TON	167	\$150.00	
2411.601	STRUCTURE EXCAVATION	LUMP SUM	1	\$30,000.00	
2412.502	12X9 PRECAST CONCRETE BOX CULV END SECT	EACH	4	\$50,000.00	
2412.503	12X9 PRECAST CONCRETE BOX CULVERT	LIN FT	174	\$3,200.00	
2442.501	REMOVE EXISTING BRIDGE	LUMP SUM	1	\$75,000.00	
2451.507	FINE AGGREGATE BEDDING (CV)	CU YD	312	\$100.00	
2501.502	18" GS PIPE APRON	EACH	2	\$650.00	
2501.503	18" CS PIPE CULVERT	LIN FT	38	\$140.00	
2511.509	RANDOM RIPRAP CLASS III	TON	90	\$150.00	
2563.601	TRAFFIC CONTROL	LUMP SUM	1	\$25,000.00	
2564.502	INSTALL SIGN TYPE C	EACH	1	\$450.00	
2573.503	SILT FENCE, TYPE MS	LIN FT	2040	\$3.00	
2573.503	FLOTATION SILT CURTAIN TYPE MOVING WATER	LIN FT	123	\$25.00	
2573.601	TEMPORARY STREAM DIVERSION SYSTEM	LUMP SUM	1	\$40,000.00	
2575.501	TURF ESTABLISHMENT	LUMP SUM	1	\$10,000.00	
2575.505	SEEDING	ACRE	0.59	\$4,000.00	
2575.508	SEED MIXTURE 34-171	POUND	42	\$95.00	
2575.523	EROSION CONTROL BLANKETS CATEGORY 3	SQ YD	2856	\$2.00	
2575.532	FERTILIZER TYPE 2	POUND	207	\$10.00	
2582.503	4" SOLID LINE MULTI COMP (WR)	LIN FT	1108	\$2.00	
PROJECT TOTAL					

**EXHIBIT R6
CONSTRUCTION/MAINTENANCE
INSURANCE REQUIREMENTS**

Bidders/contractors/consultants (hereinafter referred to as the “Contractor”) will procure and maintain for the duration of this Agreement/Contract (hereinafter referred to as the “Contract”), insurance coverage for injuries to persons or damages to property which may arise from or in connection with the performance of the work herein by the contractor, its agents, representatives, employees or subcontractors. **ANOKA COUNTY CONTRACT NUMBER:** _____ .

- 1.1 **Commercial General Liability and Umbrella Liability Insurance.** Contractors will maintain Commercial General Liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than \$5,000,000 each occurrence.
 - 1.1.1 CGL Insurance will be written on ISO occurrence form CG 00 01 96 (or a substitute form providing equivalent coverage), and will cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury, and liability assumed under an insured contract including the tort liability of another assumed in a business contract.
 - 1.1.2 **Anoka County**, including all its elected and appointed officials, all its employees and volunteers, all its boards, commissions and/or authorities and their board members, employees, and volunteers, and all its officers, agents, and consultants, are named as Additional Insured under the CGL, using ISO additional insured endorsement CG 20 10 10 01 and CG 20 37 10 01 or substitute providing equivalent coverage, and under the commercial umbrella, if any with respect to liability arising out of the contractor’s work and services performed for the County. This coverage shall be primary to the Additional Insured.
 - 1.1.3 The County’s insurance will be excess of the contractor’s insurance and will not contribute to it. The contractor’s coverage will contain no special limitations on the scope of protection afforded to the County, its agents, officers, directors, and employees.
 - 1.1.4 Coverage as required in paragraph in 1.1 above will include Per-Project General Aggregate Limit, using ISO form CG 25 03 (or a substitute form providing equivalent coverage).
 - 1.1.5 Waiver of Subrogation. Contractor waives all rights against Anoka County and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the Commercial General Liability or commercial umbrella liability insurance obtained by Contractor pursuant to Paragraph 1.1.
- 1.2 **Automobile Liability.** Contractor will maintain automobile liability and, if necessary, commercial umbrella insurance with a limit of not less than \$5,000,000 each accident.
 - 1.2.1 Automobile insurance will cover liability arising out of any auto (including owned, hired and non-owned autos). If the Contractor does not own any vehicles, Anoka County will accept hired and non-owned autos with a letter from the Contractor stating that it does not own any autos.

1.2.2 Coverage as required in paragraph in 1.2 above will be written on ISO form CA 00 01, or substitute form providing equivalent liability coverage. If necessary, the policy will be endorsed to provide contractual liability coverage equivalent to that provided in the 1990 and later edition of CA 00 01.

1.2.3 Waiver of Subrogation. Contractor waives all rights against Anoka County and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the business auto liability or commercial umbrella liability insurance obtained by Contractor pursuant to Paragraph 1.2 of this Exhibit.

1.3 **Workers' Compensation Insurance.** Contractor will maintain Workers' Compensation Insurance as required by the State of Minnesota and Employers Liability Insurance with a limits not less than \$1,000,000 Bodily Injury By Accident for each accident, not less than \$1,000,000 Bodily Injury By Disease each employee and not less than \$1,000,000 Bodily Injury By Disease policy limit.

1.3.1 If Contractor is not required by Statute to carry Workers' Compensation insurance, Contractor must provide a letter on their letterhead which includes:

1.3.1.1 Provide evidence why the contractor is not required to obtain Workers' Compensation Insurance.

1.3.1.2 A statement in writing which agrees to provide notice to Anoka County of any change in Contractor's exception status under the Minnesota State Statutes 176.041; and

1.3.1.3 A statement which agrees to hold Anoka County harmless and indemnify the County from and against any and all claims and losses brought by Contractor or any subcontractor or other persons claiming injury or illness resulting from performance of work this contract.

1.3.2 Waiver of Subrogation. Lessee waives all rights against Anoka County and its agents, officers, directors and employees for recovery of damages to the extent these damages are covered by the workers compensation and employer's liability or commercial umbrella liability insurance obtained by Lessee pursuant to Paragraph 1.4 of this Exhibit. Lessee will obtain an endorsement equivalent to WC 00 03 13 to affect this waiver.

1.4 **Other Insurance Provisions**

1.4.1 Prior to the start of this Contract, Contractor will furnish Anoka County with a completed copy of Anoka County's certificate of insurance form, which is attached as part of this Exhibit, or as a certificate of insurance and copies of the endorsements, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements set forth above.

1.4.2 Cancellation and Material Change Endorsement shall be included on all insurance policies required by the County. Thirty (30) days Advance Written Notice of Cancellation, Non-Renewal, Reduction in insurance coverage and/or limits and ten (10) days written notice of non-payment of premium shall be sent to the County at the office and attention of the Certificate Holder. This endorsement supersedes the Standard Cancellation Statement on Certifications of Insurance to which this endorsement is attached.

- 1.4.3 **No Representation of Coverage Adequacy.** By requiring insurance herein, Anoka County does not represent that coverage and limits will necessarily be adequate to protect the Contractor and such coverage and limits shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Anoka County in this Contract.
- 1.4.4 Failure of Anoka County to demand such certification or other evidence of full compliance with these insurance requirements or failure of Anoka County to identify deficiency from evidence that is provided will not be construed as a waiver of Contractor's obligation to maintain such insurance.
- 1.4.5 Failure to maintain the required insurance may result in termination of this Contract at Anoka County option.
- 1.4.6 Contractor will provide certified copies of all insurance policies required herein within 10 days if requested in writing by Anoka County.
- 1.4.7 Cross-Liability coverage. If Contractor's liability does not contain the standard ISO separation of insured provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.
- 1.4.8 Any policy written on a claims-made basis, the Contractor warrants that any retroactive date applicable to coverage under the policy proceeds the effective dates of this contract; and that continuous coverage will be maintained or extended discovery period of 2 years beginning from the time that work under the contract is completed.
- 1.4.9 Acceptability of Insurer(s). Anoka County reserves the right to reject any insurance carriers that are rated less than: A.M. Best rating of A: IV.

ATTACHMENT
CM 32-34 March 26, 1969

THE FOLLOWING CERTIFICATION WITH REGARD TO THE PERFORMANCE OF PREVIOUS CONTRACTS OR SUBCONTRACTS SUBJECT TO THE EQUAL OPPORTUNITY CLAUSE AND THE FILING OF REQUIRED REPORTS SHALL BE EXECUTED BY THE BIDDER.

The bidder hereby certifies the he/she has _____, has not _____, participated in a previous contract or subcontract subject to the equal opportunity clause, as required by Executive Orders 10925, 11114 or 11246, and that he/she has _____, has not _____, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

(Company)

By: _____

(Title)

Date: _____

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41CFR 60-1.7(b)(1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are exempt from the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7(b)(1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

NON-COLLUSION AFFIDAVIT

The following Non-Collusion Affidavit shall be executed by the bidder:

State Project No. _____

Federal Project No. _____

State of Minnesota _____)

) ss

County of _____)

I, _____, do state under penalty of
(name of person signing this affidavit)

perjury under 28 U.S.C. 1746 of the laws of the United States:

(1) that I am the authorized representative of _____

(name of person, partnership or corporation submitting this proposal)

and that I have the authority to make this affidavit for and on behalf of said bidder;

(2) that, in connection with this proposal, the said bidder has not either directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding;

(3) that, to the best of my knowledge and belief, the contents of this proposal have not been communicated by the bidder or by any of his/her employees or agents to any person who is not an employee or agent of the bidder or of the surety on any bond furnished with the proposal and will not be communicated to any person who is not an employee or agent of the bidder or of said surety prior to the official opening of the proposal, and

(4) that I have fully informed myself regarding the accuracy of the statements made in this affidavit.

Signed: _____
(bidder or his authorized representative)

**ATTACHMENT A
PRIME CONTRACTOR RESPONSE**

RESPONSIBLE CONTRACTOR VERIFICATION AND CERTIFICATION OF COMPLIANCE

STATE PROJECT NUMBER: _____

This form includes changes by statutory references from the Laws of Minnesota 2015, chapter 64, sections 1-9. This form must be submitted with the response to this solicitation. A response received without this form, will be rejected.

<p>Minn. Stat. § 16C.285, Subd. 7. IMPLEMENTATION. ... any prime contractor or subcontractor or motor carrier that does not meet the minimum criteria in subdivision 3 or fails to verify that it meets those criteria is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project...</p>	
<p>Minn. Stat. § 16C.285, Subd. 3. RESPONSIBLE CONTRACTOR, MINIMUM CRITERIA. "Responsible contractor" means a contractor that conforms to the responsibility requirements in the solicitation document for its portion of the work on the project and verifies that it meets the following minimum criteria:</p>	
<p>(1)</p>	<p>The Contractor:</p> <ul style="list-style-type: none"> (i) is in compliance with workers' compensation and unemployment insurance requirements; (ii) is in compliance with Department of Revenue and Department of Employment and Economic Development registration requirements if it has employees; (iii) has a valid federal tax identification number or a valid Social Security number if an individual; and (iv) has filed a certificate of authority to transact business in Minnesota with the Secretary of State if a foreign corporation or cooperative.
<p>(2)</p>	<p>The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 177.24, 177.25, 177.41 to 177.44, 181.03, 181.101, 181.13, 181.14, or 181.722, and has not violated United States Code, title 29, sections 201 to 219, or United States Code, title 40, sections 3141 to 3148. For purposes of this clause, a violation occurs when a contractor or related entity:</p> <ul style="list-style-type: none"> (i) repeatedly fails to pay statutorily required wages or penalties on one or more separate projects for a total underpayment of \$25,000 or more within the three-year period, provided that a failure to pay is "repeated" only if it involves two or more separate and distinct occurrences of underpayment during the three-year period; (ii) has been issued an order to comply by the commissioner of Labor and Industry that has become final; (iii) has been issued at least two determination letters within the three-year period by the Department of Transportation finding an underpayment by the contractor or related entity to its own employees; (iv) has been found by the commissioner of Labor and Industry to have repeatedly or willfully violated any of the sections referenced in this clause pursuant to section 177.27; (v) has been issued a ruling or findings of underpayment by the administrator of the Wage and Hour Division of the United States Department of Labor that have become final or have been upheld by an administrative law judge or the Administrative Review Board; or (vi) has been found liable for underpayment of wages or penalties or misrepresenting a construction worker as an independent contractor in an action brought in a court having jurisdiction. Provided that, if the contractor or related entity contests a determination of underpayment by the Department of Transportation in a contested case proceeding, a violation does not occur until the contested case proceeding has concluded with a determination that the contractor or related entity underpaid wages or penalties;*

(3)	The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 181.723 or chapter 326B. For purposes of this clause, a violation occurs when a contractor or related entity has been issued a final administrative or licensing order;*
(4)	The contractor or related entity has not, more than twice during the three-year period before submitting the verification, had a certificate of compliance under section 363A.36 revoked or suspended based on the provisions of section 363A.36, with the revocation or suspension becoming final because it was upheld by the Office of Administrative Hearings or was not appealed to the office;*
(5)	The contractor or related entity has not received a final determination assessing a monetary sanction from the Department of Administration or Transportation for failure to meet targeted group business, disadvantaged business enterprise, or veteran-owned business goals, due to a lack of good faith effort, more than once during the three-year period before submitting the verification;*
	* Any violations, suspensions, revocations, or sanctions, as defined in clauses (2) to (5), occurring prior to July 1, 2014, shall not be considered in determining whether a contractor or related entity meets the minimum criteria.
(6)	The contractor or related entity is not currently suspended or debarred by the federal government or the state of Minnesota or any of its departments, commissions, agencies, or political subdivisions that have authority to debar a contractor; and
(7)	All subcontractors and motor carriers that the contractor intends to use to perform project work have verified to the contractor through a signed statement under oath by an owner or officer that they meet the minimum criteria listed in clauses (1) to (6).

Minn. Stat. § 16C.285, Subd. 5. SUBCONTRACTOR VERIFICATION.

A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors.

A prime contractor shall submit to the contracting authority upon request copies of the signed verifications of compliance from all subcontractors of any tier pursuant to subdivision 3, clause (7). A prime contractor and subcontractors shall not be responsible for the false statements of any subcontractor with which they do not have a direct contractual relationship. A prime contractor and subcontractors shall be responsible for false statements by their first-tier subcontractors with which they have a direct contractual relationship only if they accept the verification of compliance with actual knowledge that it contains a false statement.

Subd. 5a. Motor carrier verification. A prime contractor or subcontractor shall obtain annually from all motor carriers with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each motor carrier. A prime contractor or subcontractor shall require each such motor carrier to provide it with immediate written notification in the event that the motor carrier no longer meets one or more of the minimum criteria in subdivision 3 after submitting its annual verification. A motor carrier shall be ineligible to perform work on a project covered by this section if it does not meet all the minimum criteria in subdivision 3. Upon request, a prime contractor or subcontractor shall submit to the contracting authority the signed verifications of compliance from all motor carriers providing for-hire transportation of materials, equipment, or supplies for a project.

Minn. Stat. § 16C.285, Subd. 4. VERIFICATION OF COMPLIANCE.

A contractor responding to a solicitation document of a contracting authority shall submit to the contracting authority a signed statement under oath by an owner or officer verifying compliance with each of the minimum criteria in subdivision 3, with the exception of clause (7), at the time that it responds to the solicitation document.

A contracting authority may accept a signed statement under oath as sufficient to demonstrate that a contractor is a responsible contractor and shall not be held liable for awarding a contract in reasonable reliance on that statement. A prime contractor, subcontractor, or motor carrier that fails to verify compliance with any one of the required minimum criteria or makes a false statement under oath in a verification of compliance shall be ineligible to be awarded a construction contract on the project for which the verification was submitted.

A false statement under oath verifying compliance with any of the minimum criteria may result in termination of a construction contract that has already been awarded to a prime contractor or subcontractor or motor carrier that submits a false statement. A contracting authority shall not be liable for declining to award a contract or terminating a contract based on a reasonable determination that the contractor failed to verify compliance with the minimum criteria or falsely stated that it meets the minimum criteria. A verification of compliance need not be notarized. An electronic verification of compliance made and submitted as part of an electronic bid shall be an acceptable verification of compliance under this section provided that it contains an electronic signature as defined in section 325L.02, paragraph (h).

CERTIFICATION

By signing this document I certify that I am an owner or officer of the company, and I certify under oath that:

- 1) My company meets each of the Minimum Criteria to be a responsible contractor as defined herein and is in compliance with Minn. Stat. § 16C.285, and**
- 2) if my company is awarded a contract, I will submit Attachment A-1 prior to contract execution, and**
- 3) if my company is awarded a contract, I will also submit Attachment A-2 as required.**

Authorized Signature of Owner or Officer:	Printed Name:
Title:	Date:
Company Name:	

NOTE: Minn. Stat. § 16C.285, Subd. 2, (c) If only one prime contractor responds to a solicitation document, a contracting authority may award a construction contract to the responding prime contractor even if the minimum criteria in subdivision 3 are not met.

ATTACHMENT A-1

FIRST-TIER SUBCONTRACTORS LIST

SUBMIT PRIOR TO EXECUTION OF A CONSTRUCTION CONTRACT

STATE PROJECT NUMBER: _____

Minn. Stat. § 16C.285, Subd. 5. A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

FIRST TIER SUBCONTRACTOR NAMES* (Legal name of company as registered with the Secretary of State)	Name of city where company home office is located

*Attach additional sheets as needed for submission of all first-tier subcontractors.

SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-1	
<p>By signing this document I certify that I am an owner or officer of the company, and I certify under oath that:</p> <p>All first-tier subcontractors listed on attachment A-1 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.</p>	
Authorized Signature of Owner or Officer:	Printed Name:
Title:	Date:
Company Name:	

ATTACHMENT A-2

ADDITIONAL SUBCONTRACTORS LIST

PRIME CONTRACTOR TO SUBMIT AS SUBCONTRACTORS ARE ADDED TO THE PROJECT

STATE PROJECT NUMBER: _____

This form must be submitted to the Project Manager or individual as identified in the solicitation document.

Minn. Stat. § 16C.285, Subd. 5. ... If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors. ...

ADDITIONAL SUBCONTRACTOR NAMES* (Legal name of company as registered with the Secretary of State)	Name of city where company home office is located

*Attach additional sheets as needed for submission of all additional subcontractors.

SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-2	
<p>By signing this document I certify that I am an owner or officer of the company, and I certify under oath that:</p> <p>All additional subcontractors listed on Attachment A-2 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.</p>	
Authorized Signature of Owner or Officer:	Printed Name:
Title:	Date:
Company Name:	

PLAN SYMBOLS

STATE LINE	---
COUNTY LINE	---
TOWNSHIP OR RANGE LINE	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
RIGHT-OF-WAY LINE	---
PRESENT RIGHT-OF-WAY LINE	---
CONTROL OF ACCESS LINE	---
PROPERTY LINE (Except Land Lines)	---
VACATED PLATTED PROPERTY	---
CORPORATE OR CITY LIMITS	---

TRUNK HIGHWAY CENTER LINE	---
RETAINING WALL	---
RAILROAD	---
RAILROAD RIGHT-OF-WAY LINE	---
RIVER OR CREEK	---
DRY RUN	---
DRAINAGE DITCH	---
DRAIN TILE	---
CULVERT	---
DROP INLET	---
GUARD RAIL	---
BARBED WIRE FENCE	---
WOVEN WIRE FENCE	---
CHAIN LINK FENCE	---
RAILROAD SNOW FENCE	---
STONE WALL OR FENCE	---
HEDGE	---
RAILROAD CROSSING SIGN	---
RAILROAD CROSSING BELL	---
ELECTRIC WARNING SIGN	---
CROSSING GATE	---
MEANDER CORNER	---
SPRINGS	---

MARSH/SWAMP	---
TIMBER	(TIMBER)
ORCHARD	---
BRUSH	---
NURSERY	---

CATTLE GUARD	---
OVERPASS (Highway Over)	---
UNDERPASS (Highway Under)	---
BRIDGE	---

BUILDING (One Story Frame)	---
F-FRAME	---
C-CONCRETE	---
S-STONE	---
T-TILE	---
B-BRICK	---
ST-STUCCO	---

IRON PIPE OR ROD	---
MONUMENT (STONE, CONCRETE, OR METAL)	---
WOODEN HUB	---
BENCHMARK	---
GRAVEL PIT	---
SAND PIT	---
BORROW PIT	---
ROCK QUARRY	---

UTILITY SYMBOLS	---
POWER POLE LINE	---
TELEPHONE OR TELEGRAPH POLE LINE	---
JOINT TELEPHONE AND POWER ON POWER POLES	---
ON TELEPHONE POLES	---
ANCHOR	---
STEEL TOWER	---
STREET LIGHT	---
PEDESTAL (TELEPHONE CABLE TERMINAL)	---

GAS MAIN	---
WATER MAIN	---
CONDUIT	---
TELEPHONE CABLE IN CONDUIT	---
ELECTRIC CABLE IN CONDUIT	---
TELEPHONE MANHOLE	---
ELECTRIC MANHOLE	---
BURIED TELEPHONE CABLE	---
BURIED ELECTRIC CABLE	---
AERIAL TELEPHONE CABLE	---
SEWER (SANITARY)	---
SEWER (STORM)	---
SEWER MANHOLE	---

HANDHOLE	---
CATCH BASIN	---
FIRE HYDRANT	---

MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

CONSTRUCTION PLAN FOR BRIDGE NO. 02J56 WITH APPROACH GRADING AND BITUMINOUS SURFACING.

LOCATED ON CSAH 28 FROM 830' WEST OF THE INTERSECTION C.S.A.H. 28 AND SEELYE BROOK DRIVE

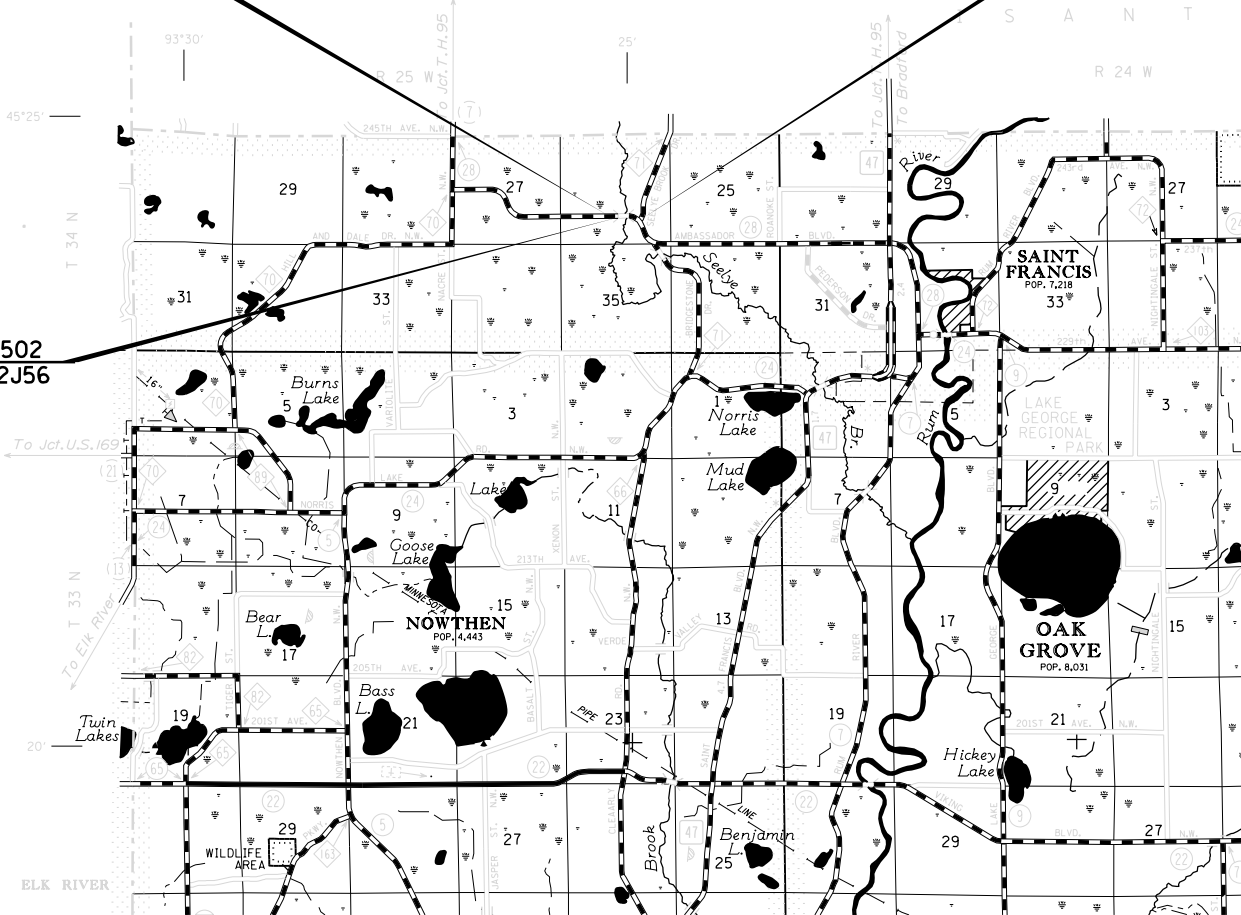
STATE AID PROJ. NO. 002-628-008 (C.S.A.H. 28)

GROSS LENGTH 443.31 FEET 0.084 MILES
BRIDGES-LENGTH 29.10 FEET 0.006 MILES
EXCEPTIONS-LENGTH _____ FEET _____ MILES
NET LENGTH 443.31 FEET 0.084 MILES

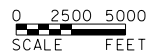
BEGIN CONSTRUCTION
S.A.P. 002-628-008
CENTERLINE OF CSAH 28
STA 0+36.24

END CONSTRUCTION
S.A.P. 002-628-008
CENTERLINE C.S.A.H. 28
STA 4+79.55

EXISTING BRIDGE NO. 02502
PROPOSED BRIDGE NO. 02J56



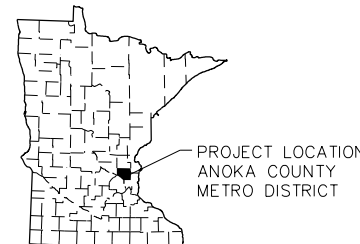
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-.2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."



C.S.A.H. 28 DESIGN DESIGNATION
STATE AID PROJECT NO. 002-628-008

DESIGN ESALS	2043 = 246,000	FUNCTIONAL CLASSIFICATION	= MAJOR COLLECTOR
ADT (Current Year)	2023 = 750	NO. OF TRAFFIC LANES	= 2
ADT (Future Year)	2043 = 825	NO. OF PARKING LANES	= 0
DHV (Design Hr. Vol.)	= 75	SHOULDER WIDTH (FT.)	= 8
D (Directional Distr.)	= 50/50%	SHOULDER WIDTH-RURAL (FT.)	= 0
T (Heavy Commercial)	= 75	R-VALUE	= 0

DESIGN SPEED: 55 MPH
BASED ON: STOPPING SIGHT DISTANCE
HEIGHT OF EYE: 3.5' HEIGHT OF OBJECT: 2.0'



MN. PROJ. NO. STATE FUNDS

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

SHEET NO.	INDEX
1	TITLE SHEET
2	GENERAL PLAN AND ELEVATION
3	CULVERT SECTION & QUANTITIES
4-8	CULVERT DETAILS
9	BRIDGE SURVEY
10	ROADWAY REMOVAL PLAN
11	ROADWAY TYPICAL SECTION & DETAILS
12	ROADWAY CONSTRUCTION PLAN AND PROFILE
13	ROADWAY SIGNING AND STRIPING PLAN
14-15	TURF ESTABLISHMENT & EROSION CONTROL PLAN
16-18	PERMANENT EROSION CONTROL
19-21	TEMPORARY SEDIMENT CONTROL
22-26	ROADWAY CROSS SECTIONS
27-28	TRAFFIC CONTROL PLAN

THIS PLAN CONTAINS 28 SHEETS



7533 SUNWOOD DRIVE N.W.
RAMSEY, MINNESOTA 55303
Phone: (763) 433-2851
Email: Ramsey@bolton-menk.com
www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: RYAN EVANS LICENSE # 53920

DATE: 02-02-2024 SIGNATURE: [Signature]

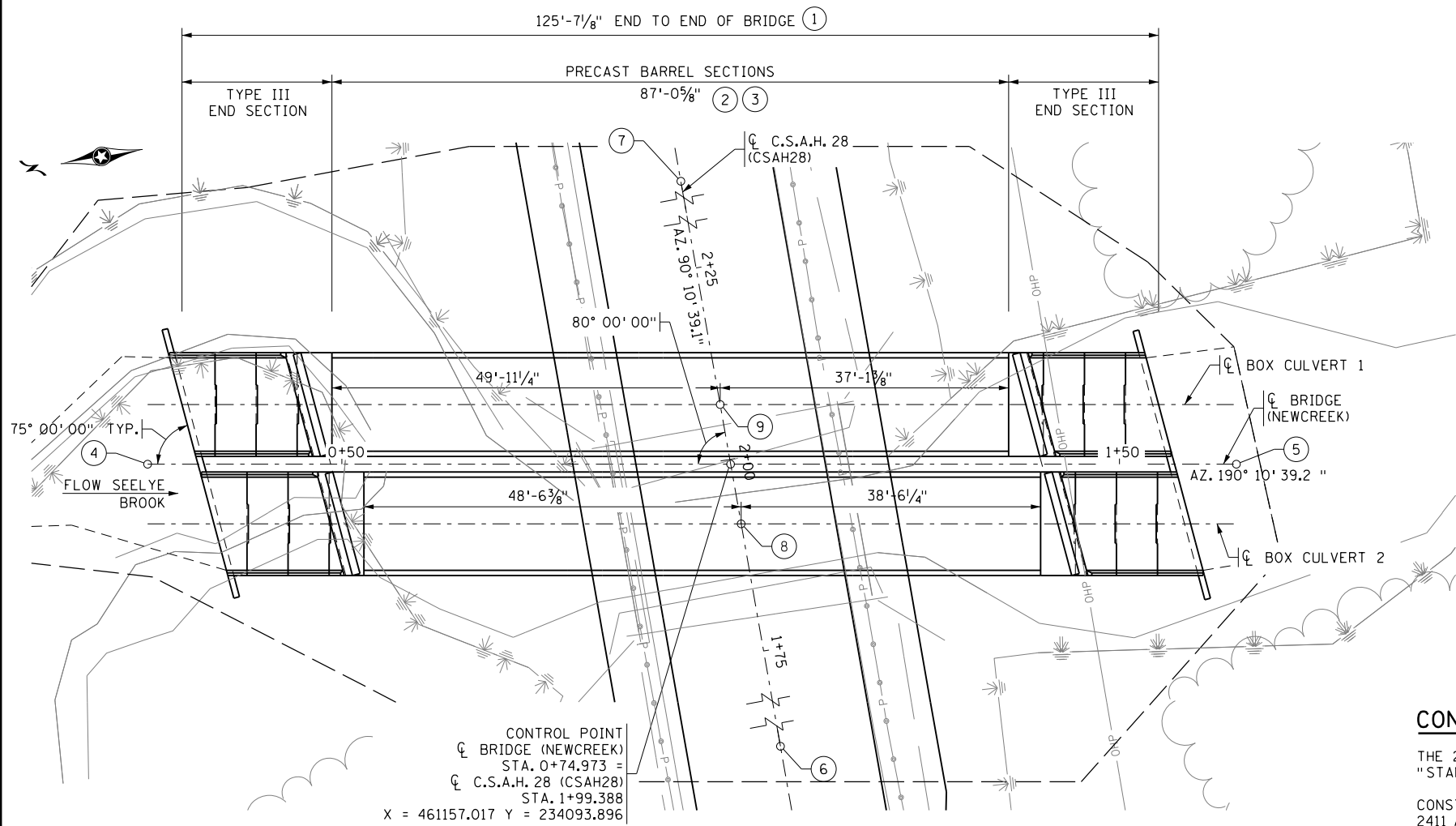
RECOMMENDED FOR APPROVAL ANOKA COUNTY ENGINEER 20

ST. FRANCIS CITY ENGINEER: MUNICIPAL CONSENT FOR STATE AID PROJECT 20

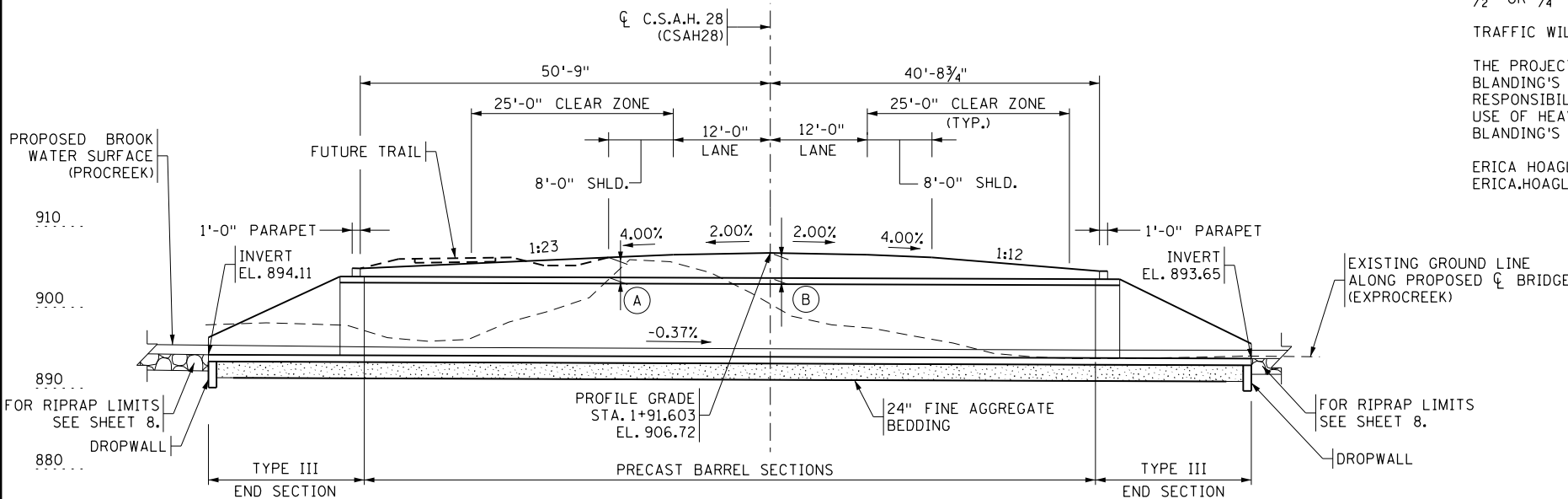
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY 20

STATE AID ENGINEER: APPROVED FOR STATE AID AND FEDERAL AID FUNDING 20

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY



GENERAL PLAN - DOUBLE 12'-0" X 9'-0" PRECAST CONCRETE BOX CULVERT



GENERAL ELEVATION - DOUBLE 12'-0" X 9'-0" PRECAST CONCRETE BOX CULVERT

ALONG \bar{C} BOX CULVERT 2 (NEWCREEK)
(BOX CULVERT 1 SIMILAR)

- ① MEASURE ALONG \bar{C} OF BRIDGE.
- ② INCLUDES APPROXIMATE $\frac{1}{2}$ " JOINT ALLOWANCE.
- ③ MEASURED ALONG \bar{C} BOX CULVERT 1 AND \bar{C} BOX CULVERT 2.
- ④ W.P. "A" ALONG \bar{C} BRIDGE (NEWCREEK)
X = 461170.265 Y = 234167.689
- ⑤ W.P. "B" ALONG \bar{C} BRIDGE (NEWCREEK)
X = 461145.527 Y = 234029.892
- ⑥ P.O.T. STA. 0+71.798 \bar{C} C.S.A.H. 28 (CSAH28)
X = 461029.428 Y = 234094.292
- ⑦ P.O.T. STA. 3+18.696 \bar{C} C.S.A.H. 28 (CSAH28)
X = 461276.324 Y = 234093.527
- ⑧ INTERSECTION POINT
 \bar{C} BOX CULVERT 2 =
 \bar{C} C.S.A.H. 28 (CSAH28) STA. 1+91.603
X = 461149.233 Y = 234093.921
- ⑨ INTERSECTION POINT
 \bar{C} BOX CULVERT 1 =
 \bar{C} C.S.A.H. 28 (CSAH28) STA. 2+07.173
X = 461164.802 Y = 234093.872

CONSTRUCTION NOTES:

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPEC. 2411 AND 2412, EXCEPT AS NOTED.

THE BAR SIZES SHOWN IN THIS PLAN ARE IN U.S. CUSTOMARY DESIGNATIONS.

ALL EXPOSED CONCRETE EDGES SHALL BE FORMED WITH A $\frac{1}{2}$ " OR $\frac{3}{4}$ " CHAMFER UNLESS OTHERWISE NOTED.

TRAFFIC WILL BE DETOURED DURING CONSTRUCTION.

THE PROJECT SITE EXISTS WITHIN A DEFINED WETLAND HOME TO THE BLANDING'S TURTLE WHICH IS A PROTECTED SPECIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK FOR TURTLES BEFORE THE USE OF HEAVY EQUIPMENT OR ANY GROUND DISTURBANCE AND TO REPORT BLANDING'S TURTLE SIGHTINGS TO THE MNDNR.

ERICA HOAGLUND, DNR NONGAME SPECIALIST
ERICA.HOAGLUND@STATE.MN.US

DESIGN DATA

DESIGNED IN ACCORDANCE WITH 2017 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

HL-93 LIVE LOAD
BARREL INSIDE WIDTH = 12'-0"
BARREL INSIDE HEIGHT = 9'-0"
BARREL LENGTH = 87'-0 5/8"
EST. MIN. FILL DEPTH A = 2.5'
EST. MAX. FILL DEPTH B = 3.2'
SKEW ANGLE = 10°00'00"

DESIGN SPEED = 55 MPH (ROAD)
CURRENT ADT (2023) = 750
PROJECTED ADT (2043) = 825


HL-93 LRFR
BRIDGE OPERATING RATING FACTOR RF = 1.30

MATERIAL DESIGN PROPERTIES:
PRECAST CONCRETE:
f'c = 5 KSI fy = 60 KSI REINF.
OR fy = 65 KSI STEEL FABRIC

LIST OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL PLAN AND ELEVATION
3	TYPICAL SECTION, STATEMENT OF QUANTITIES
4	CULVERT DETAILS
5	PRECAST CONCRETE BARREL DETAILS
6-7	PRECAST CONCRETE END SECTION
8	RIPRAP DETAILS
9	BRIDGE SURVEY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNED:  DATE 02/02/2024
NAME: RYAN R. EVANS LIC NO. 53920

MINNESOTA DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 02J56

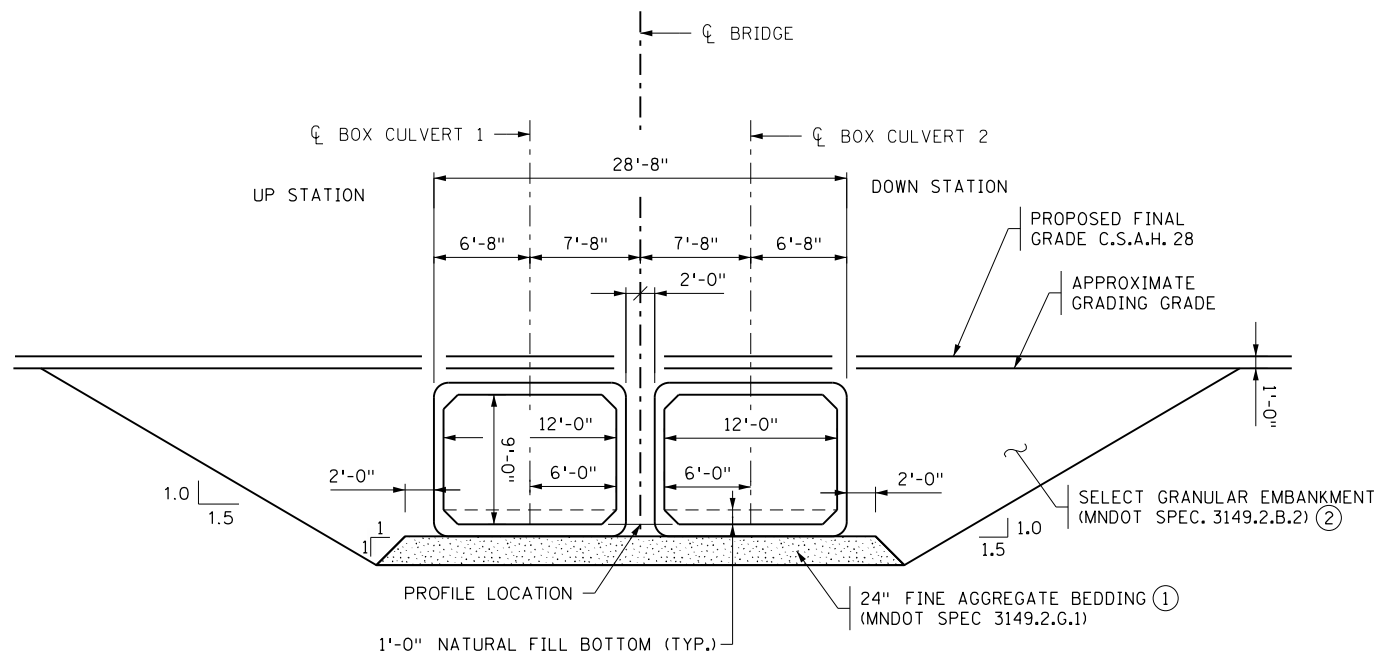
C.S.A.H. 28 (AMBASSADOR BLVD. NW)
OVER SEELYE BROOK
330 FEET WEST OF THE INTERSECTION
C.S.A.H. 28 AND SEELYE BROOK DRIVE

IDENTIFICATION NO. 513
GENERAL PLAN AND ELEVATION

SEC. 26 T 34 N R 25 W
COUNTY ANOKA ST. FRANCIS TOWNSHIP

APPROVED _____ DATE _____
ANOKA COUNTY

H:\AKCO\04124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_s12001.dgn
 Thomas.Doherty pdf-B and W.pltctfg
 2/5/2024 10:40:17 AM



TYPICAL SECTION

- ① ENGINEER SHALL OBSERVE AND CONFIRM THE COMPETENCY OF THE SOILS IN THE ENTIRE EXCAVATION BOTTOM PRIOR TO NEW FILL PLACEMENT FOR CULVERT SUPPORT. BURIED TOPSOIL OR SWAMP DEPOSITS SHALL BE REMOVED FROM BELOW THE CULVERT AS DIRECTED BY THE ENGINEER. IF APPROVED BY THE ENGINEER, IN WET CONDITIONS THE CONTRACTOR MAY SUBSTITUTE 24" OF COARSE FILTER AGGREGATE PER 3149.2.H COMPACTED TO THE QUALITY COMPACTION REQUIREMENTS OF SPEC. 2211.3.D.2.b. WRAP WITH GEOTEXTILE FABRIC TYPE IV PER SPEC. 3733. SEAM ALL FABRIC SIDES AND ENDS PER SPEC TABLE 3733-1 INCLUDING FOOTNOTE (a) OR OVERLAP A MINIMUM OF 3 FT. ALL AT NO ADDITIONAL COST.
- ② CULVERT BACKFILL SHOULD BE PLACED AND COMPACTED PER THE REQUIREMENTS OF MNDOT SPEC. 2105.3.F.1. MAXIMUM EMBANKMENT PARTICLE SIZE WITHIN 2 FT. OF CULVERT IS 3" PER SPEC. TABLE 2105-4.

STANDARD PLATES:

THE FOLLOWING STANDARD PLATES APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

PLATE	DESCRIPTION
8000K	TEMPORARY CHANNELIZERS
3040F	CORRUGATED METAL PIPE CULVERT (2-2/3" X 1/2" CORRUGATION)
3123J	METAL APRON FOR C.S. PIPE
3124B	METAL APRON CONNECTION
3125A	INLET PROTECTION FOR METAL CULVERTS (90" DIA. TO 96" DIA.)
3145G	CONCRETE PIPE OR PRECAST BOX CULVERT TIES
3146C	ANTI-SEEPAGE DIAPHRAGM (FOR CMP AND CMP-A)

SCHEDULE OF QUANTITIES FOR ENTIRE BRIDGE				
ITEM NO.	ITEM	UNIT	S.A.P. 002-628-008	NON-PARTICIPATING
2021.501	MOBILIZATION	LUMP SUM	1	
2101.501	CLEARING & GRUBBING	LUMP SUM		1
2104.502	REMOVE MARKER	EACH	4	
2104.502	REMOVE SIGN	EACH	4	
(2) 2104.502	REMOVE ENERGY ABSORBING TERMINAL	EACH	4	
2104.503	REMOVE GUARDRAIL -PLATE BEAM	LIN FT	460 (P)	
(7) 2104.503	REMOVE TEMP PRECAST CONCRETE BARRIER	LIN FT	262 (P)	
2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	53 (P)	
2104.503	REMOVE PIPE CULVERTS	LIN FT	38	
2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	733 (P)	
2104.601	REMOVE REGULATED WASTE MATERIAL (BRIDGE)	LUMP SUM		1
(6) 2106.507	EXCAVATION - COMMON	CU YD	520	
2106.507	COMMON EMBANKMENT (CV)	CU YD	1250 (P)	
2106.507	SELECT GRANULAR EMBANKMENT (CV)	CU YD	1010	
2211.507	AGGREGATE BASE (CV) CLASS 5	CU YD	330 (P)	
(8) 2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	100	
(9) 2360.509	TYPE SP 12.5 WEARING COURSE MIX (3,C)	TON	167	
2411.601	STRUCTURE EXCAVATION	LUMP SUM	1	
2412.502	12X9 PRECAST CONCRETE BOX CULV END SECT	EACH	4	
2412.503	12X9 PRECAST CONCRETE BOX CULVERT	LIN FT	174 (P)	
2442.501	REMOVE EXISTING BRIDGE	LUMP SUM		1
2451.507	FINE AGGREGATE BEDDING (CV)	CU YD	312 (P)	
2501.502	18" GS PIPE APRON	EACH	2	
2501.503	18" CS PIPE CULVERT	LIN FT	38	
(1) 2511.509	RANDOM RIPRAP CLASS III	TON	90	
(5) 2563.601	TRAFFIC CONTROL	LUMP SUM	1	
2564.502	INSTALL SIGN TYPE C	EACH	1	
2573.503	SILT FENCE, TYPE MS	LIN FT	2040	
2573.503	FLOTATION SILT CURTAIN TYPE MOVING WATER	LIN FT	123	
2573.601	TEMPORARY STREAM DIVERSION SYSTEM	LUMP SUM	1	
2575.501	TURF ESTABLISHMENT	LUMP SUM	1	
2575.505	SEEDING	ACRE	0.6 (P)	
(3) 2575.508	SEED MIXTURE 34-171	POUND	42	
2575.523	EROSION CONTROL BLANKETS CATEGORY 3	SQ YD	2856 (P)	
(4) 2575.532	FERTILIZER TYPE 2	POUND	207	
2582.503	4" SOLID LINE MULTI COMP (WR)	LIN FT	1108 (P)	

NOTES:

- '(P)' DENOTES PLAN QUANTITY PAY ITEM AS PER MNDOT SPEC. 1901. SEE SPECIAL PROVISIONS FOR ALL XXXX.6XX SERIES PAY ITEMS FOR ADDITIONAL REQUIREMENTS.
- (1) ESTIMATED AT 1.7 TON/CY.
- (2) ET-PLUS.
- (3) ESTIMATED AT 70 LB/ACRE.
- (4) ESTIMATED AT 350 LB/ACRE.
- (5) INCLUDES DETOUR SIGNING AND STRIPING.
- (6) COMMON EXCAVATION IS MATERIAL EXCAVATED FROM THE PROJECT SITE FROM ITS POSITION AFTER BITUMINOUS PAVEMENT IS REMOVED. BASED ON PRE CONSTRUCTION SURVEY INFORMATION AND THE DESIGN GRADING GRADE AS COMPUTED BY THE ENGINEER.
- (7) IMPACT ATTENUATOR REMOVAL INCIDENTAL TO TEMP PRECAST CONCRETE BARRIER REMOVAL.
- (8) ESTIMATED AT 0.14 GAL/SQ. YD.
- (9) ESTIMATED AT 113 LB/SQ. YD./IN.

GEOTEXTILE FILTER MATERIAL TYPE 7 IS TO BE INCLUDED IN THE PRICE BID FOR 'RANDOM RIPRAP CLASS III'.

CHANNEL SHAPING SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR STRUCTURE EXCAVATION.

ALL DEWATERING ITEMS, LABOR, AND EQUIPMENT (INCLUDING ADDITIONS FOR STAGED DIVERSION OF CHANNEL FLOW FOR CONSTRUCTING EACH CULVERT BARREL IN THE DRY) THAT ARE NEEDED TO COMPLETE CONSTRUCTION SHALL BE PAID UNDER THE LUMP SUM BID ITEMS FOR TEMPORARY STREAM DIVERSION SYSTEM. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

H:\XACO\0124006\CAD\MS\bridge\final\box extended for future trdill\cbr02j56_s12002.dgn
Thomas.Doherty pdf-B and W.pltcfgr
2/5/2024 10:40:17 AM
bmi.tbi

NO	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
RAMSEY, MINNESOTA 55303
Phone: (763) 433-2851
Email: Ramsey@bolton-menk.com
www.bolton-menk.com

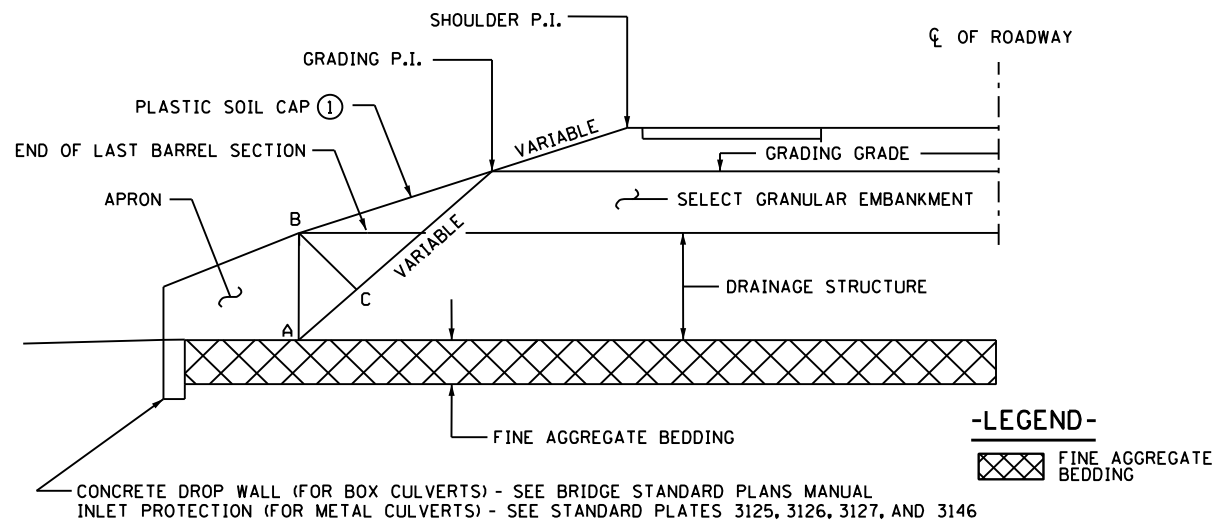
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN R. EVANS
LIC. NO. 53920 DATE 02/02/2024

TYPICAL SECTION & STATEMENT OF QUANTITIES

DESIGNED	TJD	DRAWN	JMR	APPROVED
CHECKED	RRE	CHECK	RRE	
S.A.P. NO. 002-628-008				
SHEET NO. 3 OF 28 SHEETS				

BRIDGE NO.
02J56



① PLASTIC SOIL CAP CONSIST OF 50% MIN. PASSING THE NO. 200 SIEVE AND 20% MIN. CLAY SIZE PARTICLES

NOTES:

PAYMENT FOR ALL COSTS ASSOCIATED WITH CONSTRUCTING THE PLASTIC SOIL CAP SHALL BE INCLUDED IN THE PRICE BID FOR GRANULAR BACKFILL.

WIDTH OF PLASTIC SOIL CAP:

- A) FOR PLASTIC SOIL EMBANKMENT - FULL WIDTH OF THE GRANULAR TREATMENT PLUS 2' ON EACH END.
- B) FOR GRANULAR SOIL EMBANKMENT - A MINIMUM OF ONE DIAMETER OR WIDTH OF STRUCTURE ON EITHER SIDE OF THE STRUCTURE.

THE TREATMENT IS REQUIRED ON THE INLET END.

THE THICKNESS OF THE PLASTIC SOILS CAP (B-C) IS 3' MINIMUM AND 6' MAXIMUM.

- A) FILL HEIGHTS LESS THAN 15'.
 - NORMALLY EXTEND THE LINE THRU (A-C) TO GRADING P.I. HOWEVER, IF THIS RESULTS IN A THICKNESS (B-C) GREATER THAN 6', REDUCE B-C TO 6' OR LESS AND INTERSECTION THE FILL SLOPE RATHER THAN THE P.I..
- B) FILL HEIGHTS GREATER THAT 15'.
 - THE LINE THRU A-C NEED NOT INTERSECT THE GRADING P.I. INSTEAD INTERSECT THE FILL AT A POINT NOT LESS THAN 5' ABOVE THE STRUCTURE MAINTAINING AT LEAST A MINIMUM THICKNESS (B-C) OF 3'.

H:\XACO\01424006\CAD\MS\bridge\final\box extended for future tr\dll\cbr02j56_sup004.dgn
Thomas, Doherty pdf-B and W.pltcfq
2/5/2024 10:40:18 AM
bmi.tbi

BOX CULVERT BEDDING AND PLASTIC SOIL CAP

NO	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
RAMSEY, MINNESOTA 55303
Phone: (763) 433-2851
Email: Ramsey@bolton-menk.com
www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

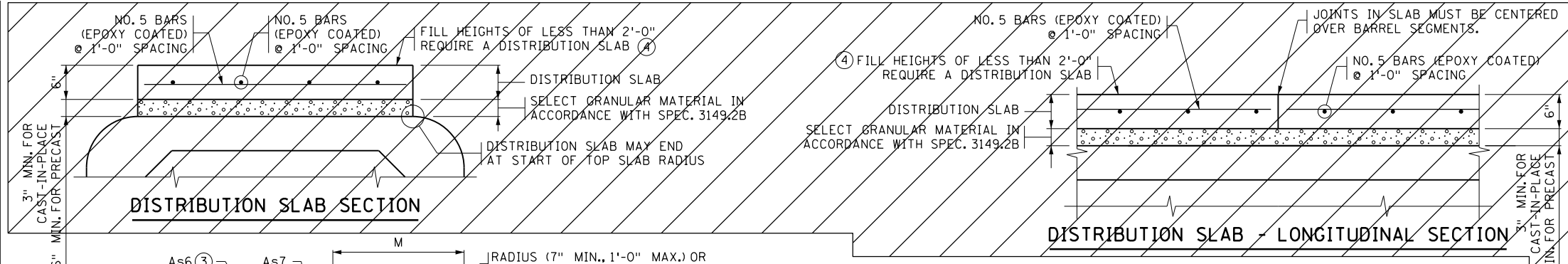
RYAN R. EVANS
LIC. NO. 53920 DATE 02/02/2024

CULVERT DETAILS

DESIGNED TJD	DRAWN JMR	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. NO. 002-628-008		
SHEET NO. 4 OF 28 SHEETS		

BRIDGE NO.
02J56

H:\AKCO\01424006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_sup001.dgn
 Thomas.Doherty pdf-B and W.pltcfgr
 2/5/2024 10:40:18 AM bmi.tbj



CONSTRUCTION NOTES

CONSTRUCT CULVERTS IN ACCORDANCE WITH SPEC. 2412 EXCEPT AS NOTED.

REFER TO THE GENERAL PLAN AND ELEVATION SHEET FOR THE DISTANCE BETWEEN BARRELS OF ADJACENT BOXES AND TO STANDARD FIGURE 5-395.115 FOR MATERIAL REQUIREMENTS FOR FILL BETWEEN ADJACENT BOXES.

PROVIDE WELDED WIRE REINFORCEMENT, SHEAR REINFORCEMENT AND REINFORCEMENT BARS IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M259.

1 1/2" MIN. AND 2" MAX. CONCRETE COVER ON ALL REINFORCEMENT, INCLUDING SHEAR REINFORCEMENT, EXCEPT FOR TONGUE AND GROOVE DETAIL.

ANY OF THE FOLLOWING COMBINATIONS OF STEEL REINFORCEMENT MAY BE USED:
 (a) 1 OR 2 LAYERS OF WELDED WIRE REINFORCEMENT OR
 (b) 1 LAYER OF WELDED WIRE REINFORCEMENT AND 1 LAYER OF REINFORCEMENT BARS OR
 (c) 1 LAYER OF REINFORCEMENT BARS.

DEVELOP REINFORCEMENT IN ACCORDANCE WITH AASHTO "LRFD BRIDGE DESIGN SPECIFICATIONS". IF BAR REINFORCEMENT IS SUBSTITUTED FOR WELDED WIRE REINFORCEMENT, INCREASE THE AREA OF REINFORCEMENT BY 8%, AND SUBMIT DESIGN CALCULATIONS VERIFYING COMPLIANCE WITH AASHTO 5.7.3.4, "CONTROL OF CRACKING BY DISTRIBUTION OF REINFORCEMENT".

MAXIMUM SIZE OF REINFORCEMENT BARS IS NO. 6. THE MAXIMUM WELDED WIRE REINFORCEMENT SIZE IS W23 PER LAYER (MAXIMUM OF 2 LAYERS).

SPACE CENTER TO CENTER OF TRANSVERSE WIRES NOT LESS THAN 2" NOR MORE THAN 4". SPACE CENTER TO CENTER OF LONGITUDINAL WIRES NOT MORE THAN 8".

WHEN USING As1, As7, AND As8 REINFORCEMENT AS ONE CONTINUOUS CAGE WITH SPLICES OCCURRING IN THE CENTER OF THE TOP AND BOTTOM OF THE BOX SECTION, THE MIN. LAP LENGTH FOR THE As7 AND As8 IS 15".

WELDING IS NOT PERMITTED ON REINFORCEMENT BARS OR WELDED WIRE REINFORCEMENT, EXCEPT THAT THE ORIGINAL WELDING REQUIRED TO MANUFACTURE WIRE REINFORCEMENT IS ACCEPTABLE.

WHEN REINFORCEMENT IS CUT, PLACE ADDITIONAL REINFORCEMENT ON BOTH SIDES OF THE CUT MEMBER TO REPLACE OR EXCEED THE CUT STEEL.

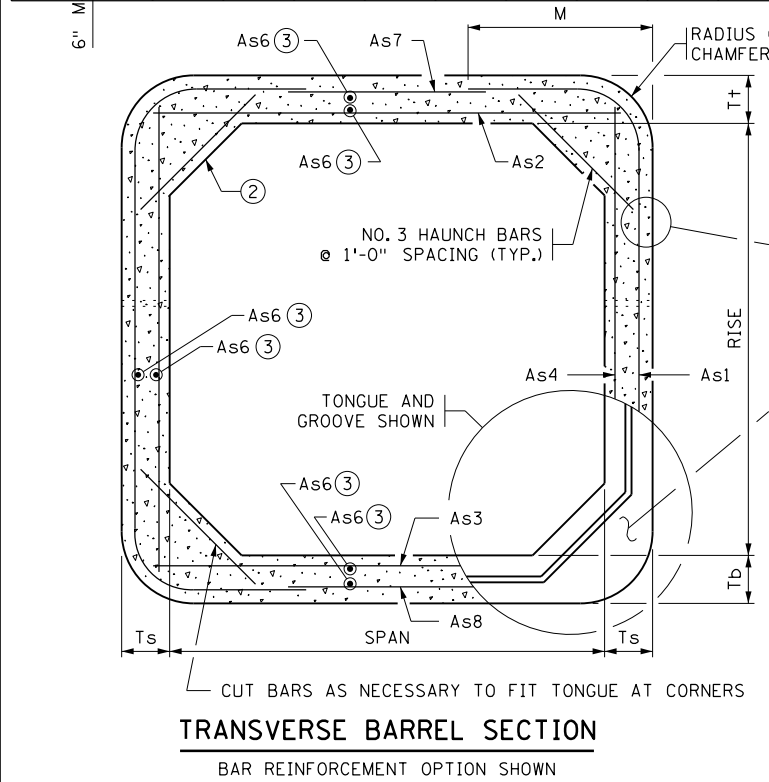
USE CONCRETE MIX NO. 3W82 WITH NO CALCIUM CHLORIDE ALLOWED.

SHOP DRAWING APPROVAL IN ACCORDANCE WITH SPEC. 3238.2A IS REQUIRED.

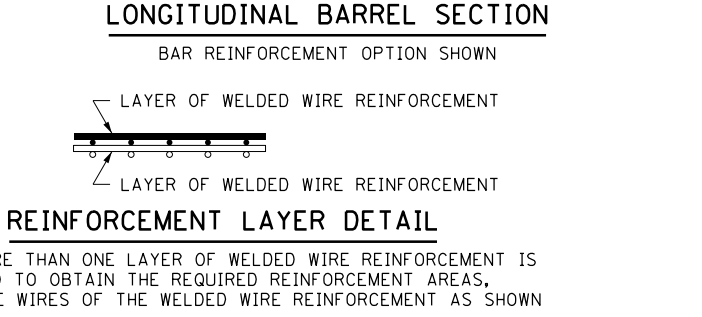
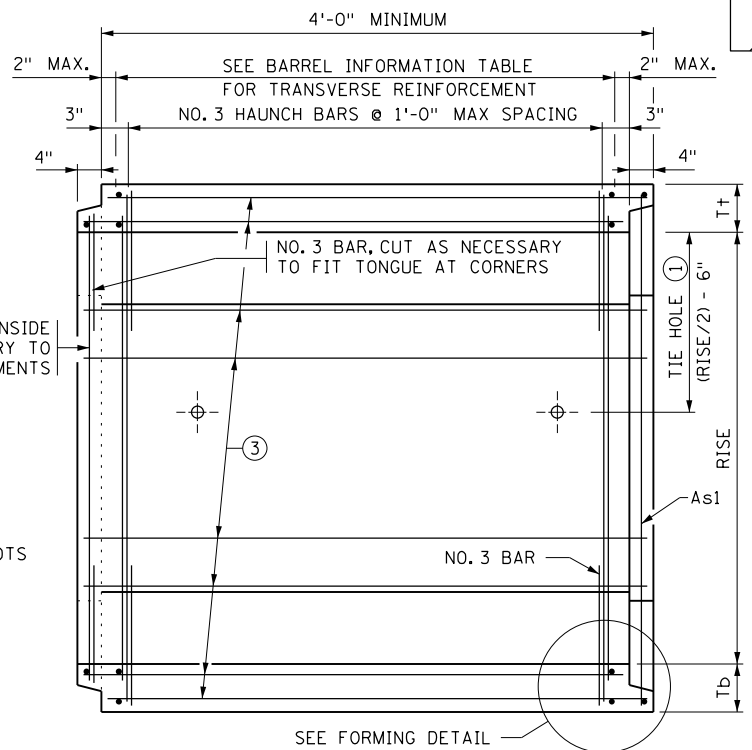
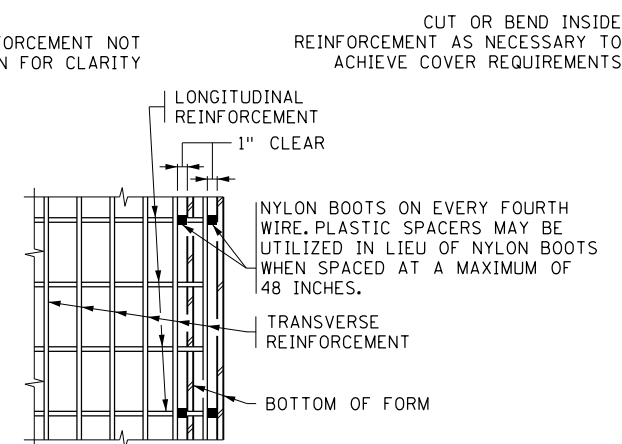
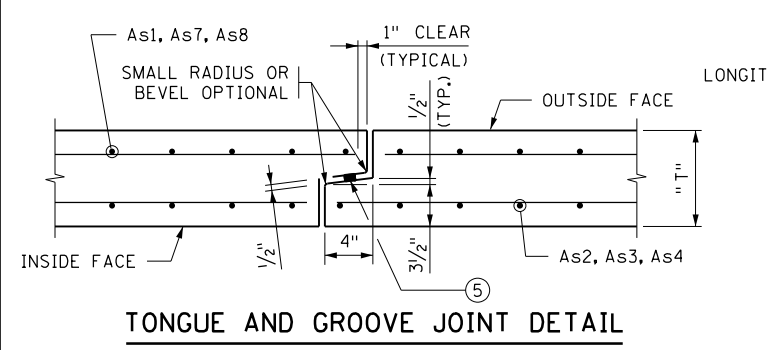
COMPACT THE FIRST 1.5' (LOOSE) OF FILL ABOVE THE BOX WITH LIGHT COMPACTION EQUIPMENT SUCH AS PLATE COMPACTORS OR WALK BEHIND ROLLERS.

TRANSVERSE REINFORCEMENT IS PARALLEL TO THE CULVERT SPAN. LONGITUDINAL REINFORCEMENT IS PERPENDICULAR TO THE CULVERT SPAN.

① USE 1" DIAMETER CULVERT TIES. SEE STANDARD PLATE NO. 3145 FOR DETAILS.
 ② USE 12" VERTICAL, 12" HORIZONTAL HAUNCHES ON ALL BOX SIZES.
 ③ PLACE LONGITUDINAL REINFORCEMENT DENOTED AS As6 IN ALL SLABS AND WALLS WITH A MINIMUM OF 0.06 SQ. IN./FT.
 ④ ROADWAY OR SHOULDER FILL HEIGHTS OF LESS THAN 2'-0" REQUIRE A 6" THICK DISTRIBUTION SLAB WITH CONCRETE MIX 3552.
 ⑤ REFER TO SPEC. 2412 FOR SEALANT REQUIREMENTS.



HAUNCH BAR LENGTH:
 31" FOR 8" WALL THICKNESS
 34" FOR 9" WALL THICKNESS
 34" FOR 10" WALL AND 10" SLAB
 36" FOR 10" WALL AND 11" SLAB
 38" FOR 10" WALL AND 12" SLAB
 38" FOR 11" WALL THICKNESS



LOCATION	SIZE	CLASS	f'c (P.S.I.)	FILL HEIGHT RANGE (FT.)	DISTRIBUTION SLAB REQUIRED *	RECESSED TIE RODS REQUIRED **	DIMENSIONS					WEIGHT (LBS./FT.)	WELDED WIRE REINFORCEMENT												
							SPAN (FT.)	RISE (FT.)	T+ (IN.)	Td (IN.)	Ts (IN.)		As1		As2		As3		As4		As7		As8		
													AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	AREA (IN. ² /FT.)	LENGTH (FT.)	
STA. 1+91.603	12 X 9	1	5000	< 3	NO	NO	12	9	9	10	8	5275	0.62	17'-0"	3'-6"	0.92	12'-6"	0.92	12'-6"	0.20	9'-6"	0.24	8'-11"	0.24	8'-11"
STA. 2+07.173	12 X 9	1	5000	< 3	NO	NO	12	9	9	10	8	5275	0.62	17'-0"	3'-6"	0.92	12'-6"	0.92	12'-6"	0.20	9'-6"	0.24	8'-11"	0.24	8'-11"

REVISION: DECEMBER 21, 2022
 APPROVED: MARCH 24, 2011
 Nancy Sibenberger
 STATE BRIDGE ENGINEER

* ALL CLASS 1 CULVERTS WITH FILL HEIGHTS OF LESS THAN 2'-0" REQUIRE A DISTRIBUTION SLAB. IF A DISTRIBUTION SLAB IS NOT REQUIRED, INDICATE "NO" IN THIS BOX.
 ** FOR PEDESTRIAN CULVERT APPLICATIONS HIDE-AWAY OR RECESSED TIE CONNECTIONS ARE REQUIRED, SEE STANDARD PLATE 3145. IF REQUIRED, INDICATE "YES" IN THIS BOX.
 *** BOX CULVERTS WITH SPANS FROM 6 TO 14 FT. ARE DESIGNED FOR HL-93 LIVE LOADS (AASHTO LRFD 3.6.2.1) NOT INCLUDING THE DESIGN LANE LOAD. BOXES WITH SPANS OF 16 FT. ARE DESIGNED FOR HL-93 LIVE LOADS INCLUDING THE DESIGN LANE LOAD.

STATE AID PROJ. NO 002-628-008

FIG. 5-395.101(A)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

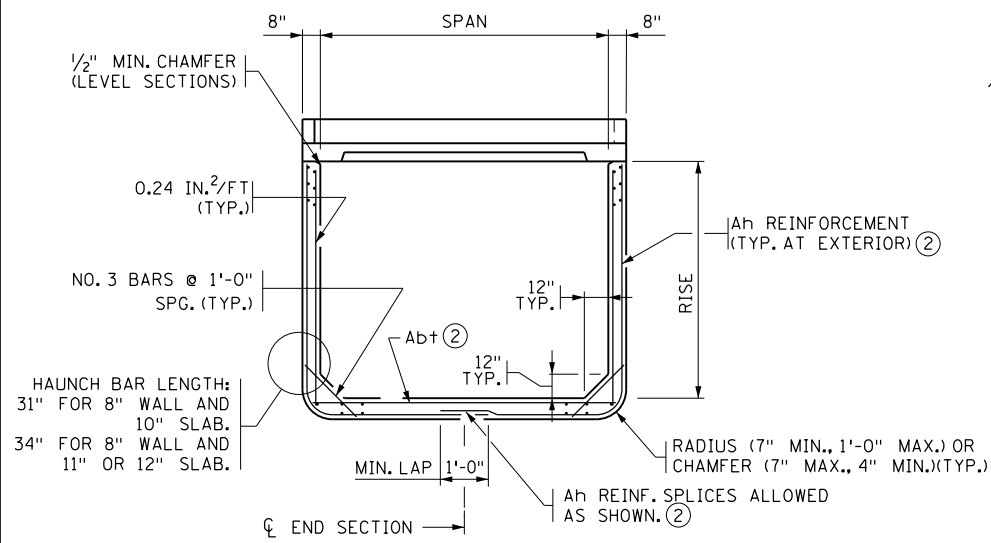
CERTIFIED BY: *Ryan R. Evans* 02/02/2024
 LICENSED PROFESSIONAL ENGINEER DATE
 NAME: RYAN R. EVANS LIC. NO. 53920

TITLE: PRECAST CONCRETE BARREL DETAILS

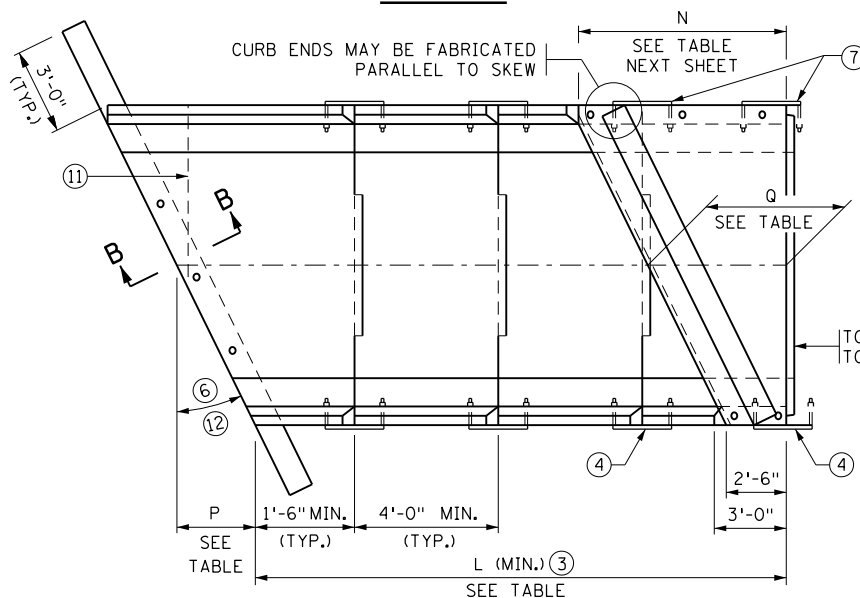
DES: TJD DR: JMR APPROVED:
 CHK: RRE CHK: RRE

SHEET NO. 5 OF 28 SHEETS

BRIDGE NO. 02J56

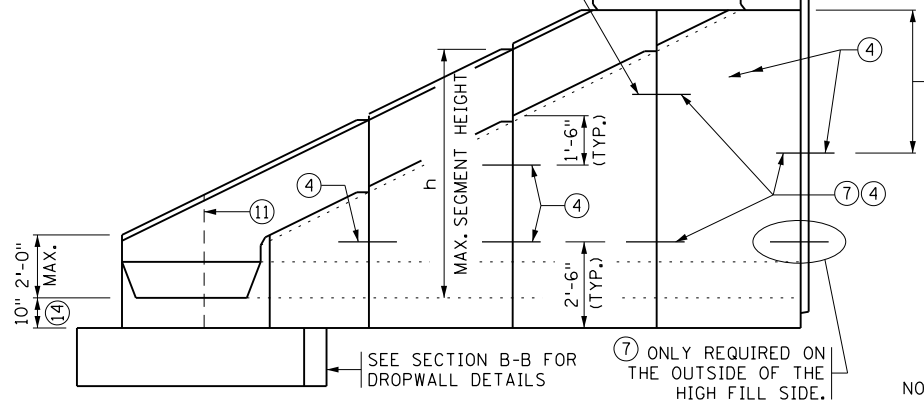


END VIEW

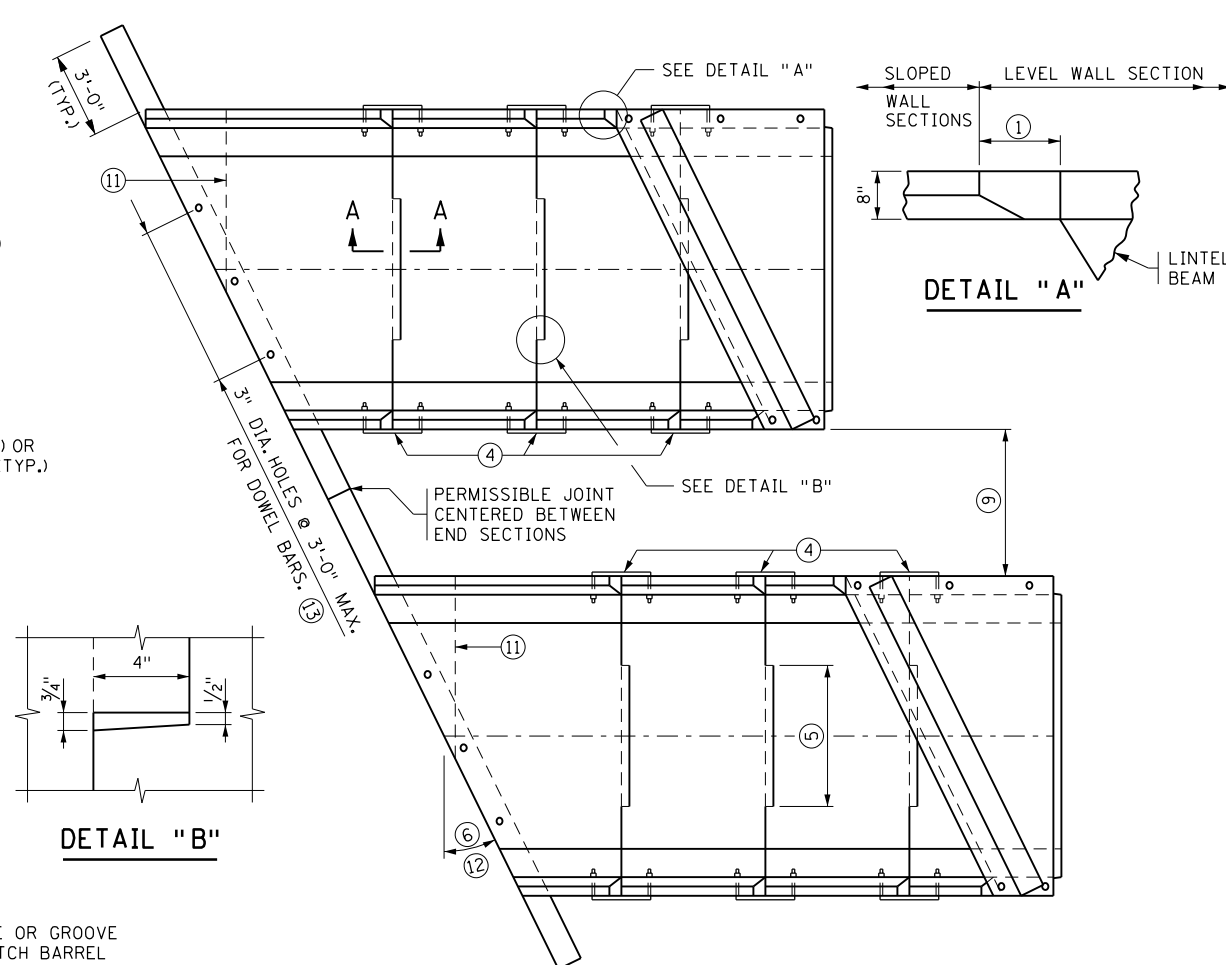


PLAN VIEW SINGLE BARREL OPTION

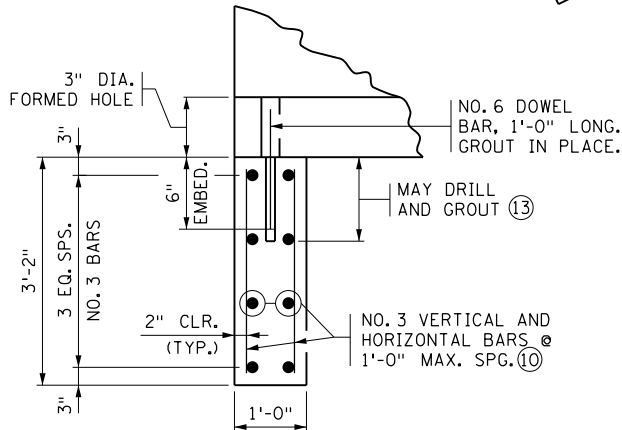
TOP TIE NOT REQUIRED IF MAX. SEGMENT HEIGHT h IS LESS THAN 4'-0"



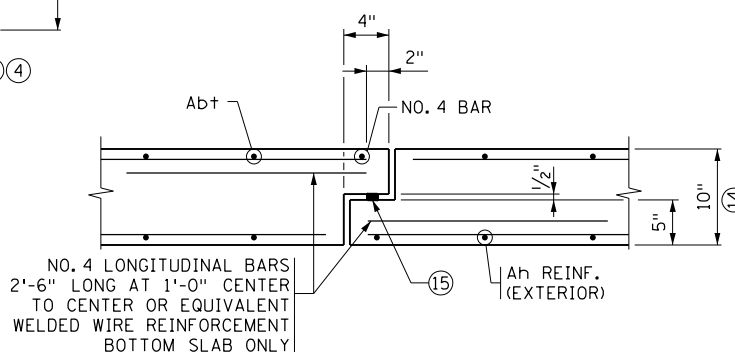
ELEVATION



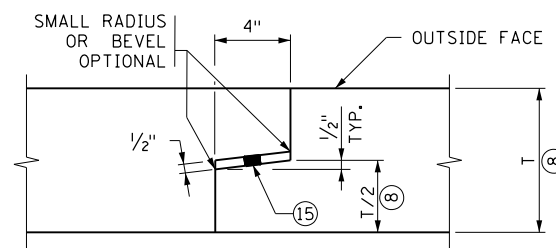
PLAN VIEW MULTIPLE BARREL OPTION



SECTION B-B

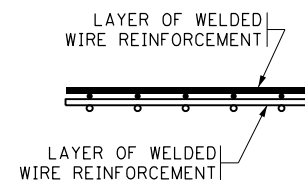


SECTION A-A



TONGUE AND GROOVE JOINT

MAKE DIMENSION OF TONGUE OR GROOVE ON ADJACENT PRECAST BARREL SECTIONS SO INSIDE WALLS ARE FLUSH.



REINFORCEMENT LAYER DETAIL

WHEN MORE THAN ONE LAYER OF WELDED WIRE REINFORCEMENT IS USED TO OBTAIN THE REQUIRED REINFORCEMENT AREAS, PLACE THE WIRES OF THE WELDED WIRE REINFORCEMENT AS SHOWN

CONSTRUCTION NOTES

SEE STANDARD FIG. 5-395.101(A) AND FIG. 5-395.101(B) FOR ADDITIONAL DIMENSIONS AND CONSTRUCTION NOTES.

ON ALL END SECTIONS FOR WATERWAYS, USE DROPWALLS ON INLET AND OUTLET ENDS.

FINISH ALL EXPOSED EDGES OF CONCRETE WITH 1/2" OR 3/4" CHAMFER OR RADIUS UNLESS OTHERWISE NOTED.

USE CONCRETE MIX 3W82 WITH NO CALCIUM CHLORIDE ALLOWED.

USE DROPWALL CONCRETE MIX 3S52, OR 3Y82 IF PRECAST. LIMITS FOR DROPWALL EXCAVATION TO BE APPROXIMATELY THE SAME AS DROPWALL DIMENSIONS. FURNISHING AND INSTALLATION OF DROPWALL IS INCLUDED IN PRICE BID FOR END SECTIONS.

PLACE LONGITUDINAL REINFORCEMENT WITH A MINIMUM OF 0.06 SQ. IN. PER FT. ON BOTH FACES.

NO TONGUE OR GROOVE REQUIRED IN WALLS BETWEEN END SECTIONS.

SEE STANDARD FIG. 5-395.115 FOR EMBANKMENT PROTECTION.

- ① 8 1/8" @ 15"; 10 5/8" @ 30"; 1'-2" @ 45°
- ② SEE STANDARD FIG. 5-395.110 (2 OF 2) FOR REINFORCEMENT TABLES.
- ③ NUMBER OF SECTIONS VARIES WITH CULVERT RISE.
- ④ EXCEPT AS NOTED, USE 1" DIA. CULVERT TIES. SEE STANDARD PLATE NO. 3145 FOR DETAILS. TWO TIES ARE REQUIRED PER JOINT WHERE h IS GREATER THAN 4'.
- ⑤ 3'-6" MIN. TONGUE AND 3'-7" MIN. GROOVE FOR CULVERTS WITH 6'-0" SPANS. 5'-0" MIN. TONGUE AND 5'-1" MIN. GROOVE FOR CULVERTS WITH SPANS GREATER THAN 6'-0". CENTER TONGUE AND GROOVE ON C OF EACH APRON JOINT. TONGUE AND GROOVE JOINT ON ALL THREE SIDES OF APRON IS PERMISSIBLE.
- ⑥ FOR SKEW ANGLES OVER 7 1/2° UP TO 22 1/2°, USE A 15° SKEW END SECTION. FOR SKEW ANGLES OVER 22 1/2° UP TO 37 1/2°, USE A 30° SKEW END SECTION. FOR SKEW ANGLES OVER 37 1/2° UP TO 45°, USE A 45° SKEW END SECTION.
- ⑦ PROVIDE EXTRA STRONG CONNECTION AT LOCATION SHOWN; REQUIRED ONLY ON HIGH FILL SIDE FOR 45° SKEW END SECTIONS OVER 6'-0" HIGH. FOR MULTIPLE BARREL OPTION, ONLY INCLUDE EXTRA STRONG TIES ON THE OUTSIDE OF THE HIGH FILL SIDE. SEE STANDARD FIG. 5-395.110 (2 OF 2) FOR DETAILS.
- ⑧ DIMENSION "T" IS EQUAL TO Tt, Tb OR Ts.
- ⑨ REFER TO THE GENERAL PLAN AND ELEVATION SHEET FOR THE DISTANCE BETWEEN BARRELS OF ADJACENT BOXES AND TO STANDARD FIGURE 5-395.115 FOR MATERIAL REQUIREMENTS FOR FILL BETWEEN ADJACENT BOXES.
- ⑩ WELDED WIRE REINFORCEMENT OF EQUAL AREA MAY BE SUBSTITUTED FOR REBAR.
- ⑪ ON THE LAST SEGMENT OF THE 45° SKEWED APRONS, A TRANSVERSE JOINT IN THE BOTTOM IS PERMITTED. A SPECIAL TIE, SIMILAR TO THE SIDE TIE, MUST BE PROVIDED. THE TIE SHALL BE INSET AND THE SPACE FILLED WITH AN APPROVED GROUT.
- ⑫ FOR BOX CULVERTS WITH SPANS OF 16' THE MAXIMUM SKEW SHALL BE 30°.
- ⑬ FILL HOLE WITH GROUT. GROUT CONSISTS OF 1 PART CEMENT AND 2 PARTS SAND. USE TYPE 1A AIR ENTRAINED PORTLAND CEMENT. GROUT MIX MAXIMUM SLUMP IS 4".
- ⑭ APRON BOTTOM SLAB THICKNESS MAY BE 8" FOR CULVERTS WITH 6' SPANS ONLY. BOTTOM SLAB THICKNESS MAY BE INCREASED UP TO 2" MAX. PROVIDED COVER IS 1 1/2" MIN., 2" MAX.
- ⑮ REFER TO SPEC. 2412 FOR SEALANT REQUIREMENTS.

LENGTH P				
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW	
6	0'-11 3/4"	2'-1 3/8"	3'-8"	
8	1'-3"	2'-8 3/8"	4'-8"	
10	1'-6 1/4"	3'-3 1/4"	5'-8"	
12	1'-9 3/8"	3'-10 1/4"	6'-8"	
14	2'-0 5/8"	4'-5 1/8"	7'-8"	
16	2'-3 7/8"	5'-0"	⑫	

MIN. LENGTH L			
RISE (FT.)	15° SKEW	30° SKEW	45° SKEW
4	7'-1 3/4"	7'-7 3/8"	8'-7 7/8"
5	9'-2 1/2"	9'-11 1/8"	11'-5 1/8"
6	11'-3 3/8"	12'-2 7/8"	14'-3 3/4"
7	13'-4 1/4"	14'-6 5/8"	17'-1 3/4"
8	15'-5 1/8"	16'-10 1/4"	19'-11 5/8"
9	17'-5 7/8"	19'-2"	22'-9 5/8"
10	19'-6 3/4"	21'-5 3/4"	25'-7 1/2"
11	21'-7 5/8"	23'-9 3/8"	28'-5 1/2"
12	23'-8 1/2"	26'-1 1/8"	31'-3 3/8"
13	25'-9 3/8"	28'-4 7/8"	34'-1 3/8"
14	27'-10 1/8"	30'-8 1/2"	36'-11 1/4"

LENGTH Q				
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW	
6	3'-5 3/4"	4'-7 3/8"	6'-2"	
8	3'-9"	5'-2 3/8"	7'-2"	
10	4'-0"	5'-9 1/4"	8'-2"	
12	4'-3 3/8"	6'-4 1/8"	9'-2"	
14	4'-6 5/8"	6'-11 1/8"	10'-2"	
16	4'-9 7/8"	7'-6 1/8"	⑫	

REVISION: DECEMBER 21, 2022
 APPROVED: MARCH 24, 2011
 Nancy Swenberger
 STATE BRIDGE ENGINEER

REV. NO.	DATE	REVISION DESCRIPTION	BY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

CERTIFIED BY: Ryan R. Evans
 LICENSED PROFESSIONAL ENGINEER
 DATE: 02/02/2024
 NAME: RYAN R. EVANS
 LIC. NO. 53920

STATE AID PROJ. NO 002-628-008
 TITLE: PRECAST CONCRETE END SECTION TYPE III - SINGLE OR MULTIPLE BARREL FOR SKEWS 7 1/2° TO 45°

DES: TJD DR: JMR
 CHK: RRE CHK: RRE
 APPROVED: SHEET NO. 6 OF 28 SHEETS
 FIG. 5-395.110 (1 OF 2)
 BRIDGE NO. 02J56

H:\XACO\014124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_sup002.dgn
 Thomas.Doherty pdf-B and W.pltctg
 2/5/2024 10:40:19 AM
 bmi.tbi

Ah REINFORCEMENT		
HEIGHT h (FT.)	Ah (IN ² /FT.)	
	15° & 30° SKEW	45° SKEW
7 OR LESS	0.192	0.192
8	0.20	0.24
9	0.29	0.36
10	0.42	0.53
11	0.60	0.75
12	0.78	0.98
13	1.03	1.36
14	1.38	1.85

Ab ⁺ REINFORCEMENT	
SPAN (FT.)	Ab ⁺ (IN ² /FT.)
6-10	0.20
12	0.30
14	0.39
16	0.39

LINTEL BEAM REINFORCEMENT		
SPAN (FT.)	BOTTOM REINFORCEMENT	
	A1	A2
6	NO. 4 @ 1'-0"	NO. 4 @ 9"
8	NO. 4 @ 1'-1"	NO. 4 @ 6"
10	NO. 4 @ 9"	NO. 5 @ 6"
12	NO. 5 @ 9"	NO. 6 @ 6"
14	NO. 6 @ 9"	NO. 8 @ 6"
16	NO. 6 @ 9"	NO. 8 @ 6"

LENGTH N			
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW
6	4'-3 ³ / ₈ "	6'-4 ¹ / ₄ "	9'-2"
8	4'-9 ⁷ / ₈ "	7'-6"	11'-2"
10	5'-4 ¹ / ₄ "	8'-7 ⁷ / ₈ "	13'-2"
12	5'-10 ³ / ₄ "	9'-9 ³ / ₄ "	15'-2"
14	6'-5 ¹ / ₈ "	10'-11 ⁵ / ₈ "	17'-2"
16	6'-11 ⁵ / ₈ "	12'-1 ¹ / ₂ "	NA (7)

LINTEL BEAM THICKNESS			
SPAN (FT.)	15° SKEW	30° SKEW	45° SKEW
≤ 12	9"	9"	9"
14	10" (8)	10" (8)	10" (8)
16	10" (8)	10" (8)	NA (7)

CONSTRUCTION NOTES

SEE STANDARD FIG. 5-395.101(A) AND FIG. 5-395.101(B) FOR ADDITIONAL DIMENSIONS AND CONSTRUCTION NOTES.

ALL END SECTIONS REQUIRE CURB ON LINTEL BEAM.

GROUT CONSISTS OF 1 PART CEMENT AND 2 PARTS SAND. USE TYPE 1A AIR ENTRAINED PORTLAND CEMENT. GROUT MIX MAXIMUM SLUMP IS 4".

STRUCTURAL STEEL IN ACCORDANCE WITH SPEC. 3306.

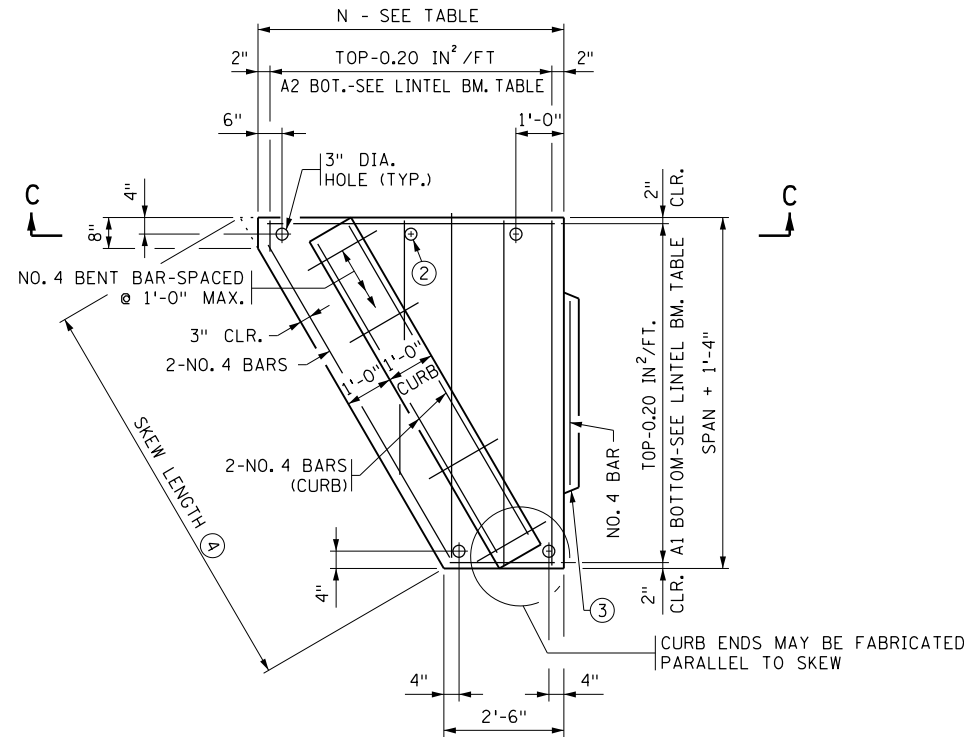
WELDING IN ACCORDANCE WITH SPEC. 2471.

GALVANIZE STRUCTURAL STEEL IN ACCORDANCE WITH SPEC. 3394.

GALVANIZE BOLTS, NUTS AND WASHERS IN ACCORDANCE WITH SPEC. 3392.

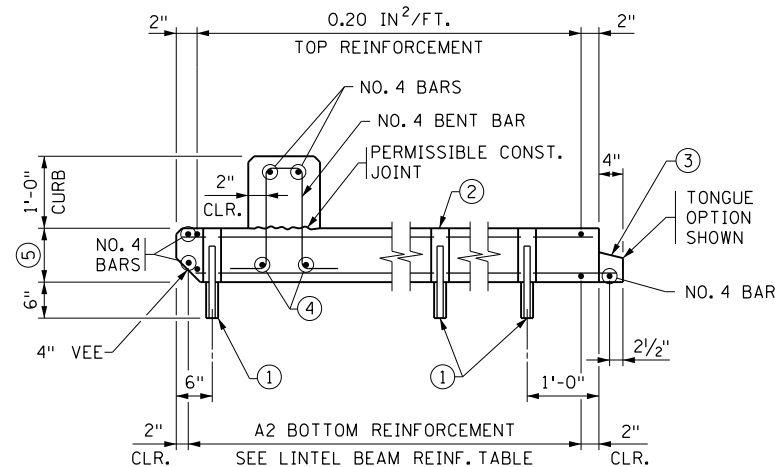
- NO. 8 DOWEL, 1'-0" LONG, 2" DIA. HOLE IN THE TOP OF THE WALL SECTION AND 3" DIA. HOLE IN THE LINTEL. FILL HOLE WITH GROUT.
- PROVIDE ADDITIONAL 3" HOLES AT 4'-0" MAXIMUM SPACING WHEN SIDE OF LINTEL BEAM IS OVER 6 FT.
- CHECK THE LOCATION TO DETERMINE WHETHER A TONGUE OR A GROOVE IS USED. TONGUE AND GROOVE TO TERMINATE AT CULVERT RADIUS.
- FOR SKEW LENGTH UNDER 10' USE NO. 8 BARS. FOR SKEW LENGTH OF 10' TO 14' USE NO. 9 BARS. FOR SKEW LENGTH OVER 14' TO 18' USE NO. 10 BARS. FOR SKEW LENGTH OVER 18' TO 22' USE NO. 11 BARS OR EQUAL. SKEW LENGTH IS DISTANCE BETWEEN OUTSIDE FACES OF END SECTION ALONG LINTEL BEAM.
- SEE LINTEL BEAM THICKNESS TABLE ON THIS SHEET. USE LINTEL BEAMS WITH 5000 PSI 3W82 CONCRETE UNLESS OTHERWISE SPECIFIED.
- ALTERNATE BAR BEND MAY BE USED FOR NO. 4 BENT BARS.
- FOR CULVERTS WITH SPANS OF 16' THE MAXIMUM SKEW IS 30°.
- ALTERNATIVELY A 9" THICKNESS MAY BE USED WITH 6500 PSI 3W82 CONCRETE.

NOTE: h IS THE LARGEST VERTICAL DIMENSION OF THE SEGMENT.



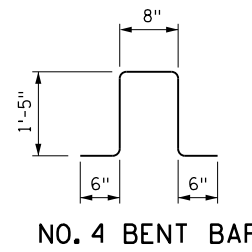
PLAN VIEW

LINTEL BEAM WITH INTEGRAL CURB

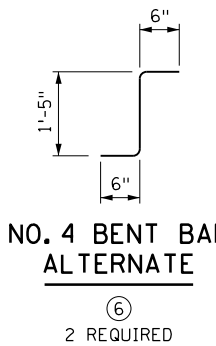


SECTION C-C

LINTEL BEAM WITH INTEGRAL CURB

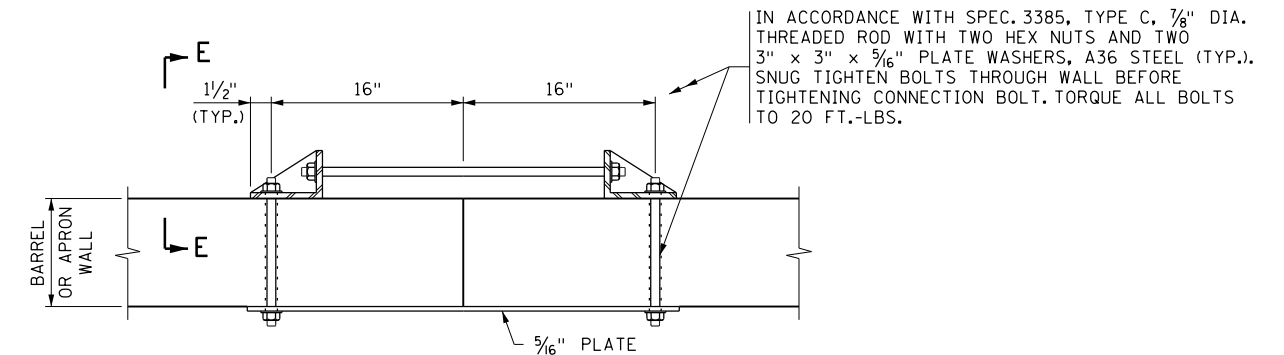


NO. 4 BENT BAR

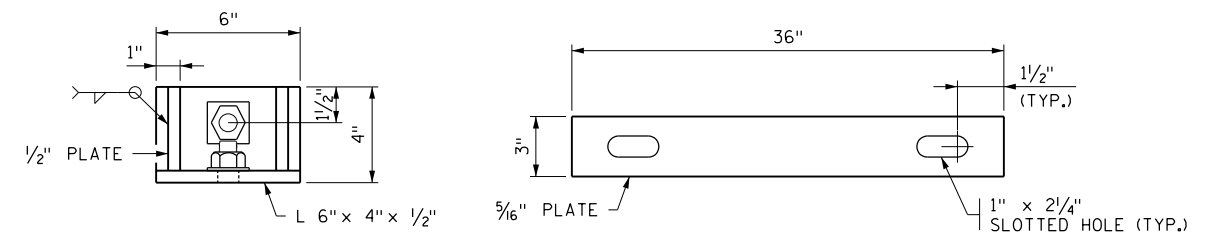


NO. 4 BENT BAR ALTERNATE

(6)
2 REQUIRED



PLAN VIEW



SECTION E-E

PLATE DETAIL

EXTRA STRONG CONNECTION DETAILS

REVISION: DECEMBER 21, 2022

APPROVED: MARCH 24, 2011

Nancy Sibenberger
STATE BRIDGE ENGINEER

REV. NO.	DATE	REVISION DESCRIPTION	BY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

CERTIFIED BY: *Ryan R. Evans*
LICENSED PROFESSIONAL ENGINEER
NAME: RYAN R. EVANS
DATE: 02/02/2024
LIC. NO. 53920

STATE AID PROJ. NO 002-628-008

TITLE: PRECAST CONCRETE END SECTION
TYPE III - SINGLE OR MULTIPLE BARREL
FOR SKEWS 7 1/2° TO 45°

DES: TJD
CHK: RRE
DR: JMR
CHK: RRE
APPROVED:
SHEET NO. 7 OF 28 SHEETS

FIG. 5-395.110 (2 OF 2)

BRIDGE NO.
02J56

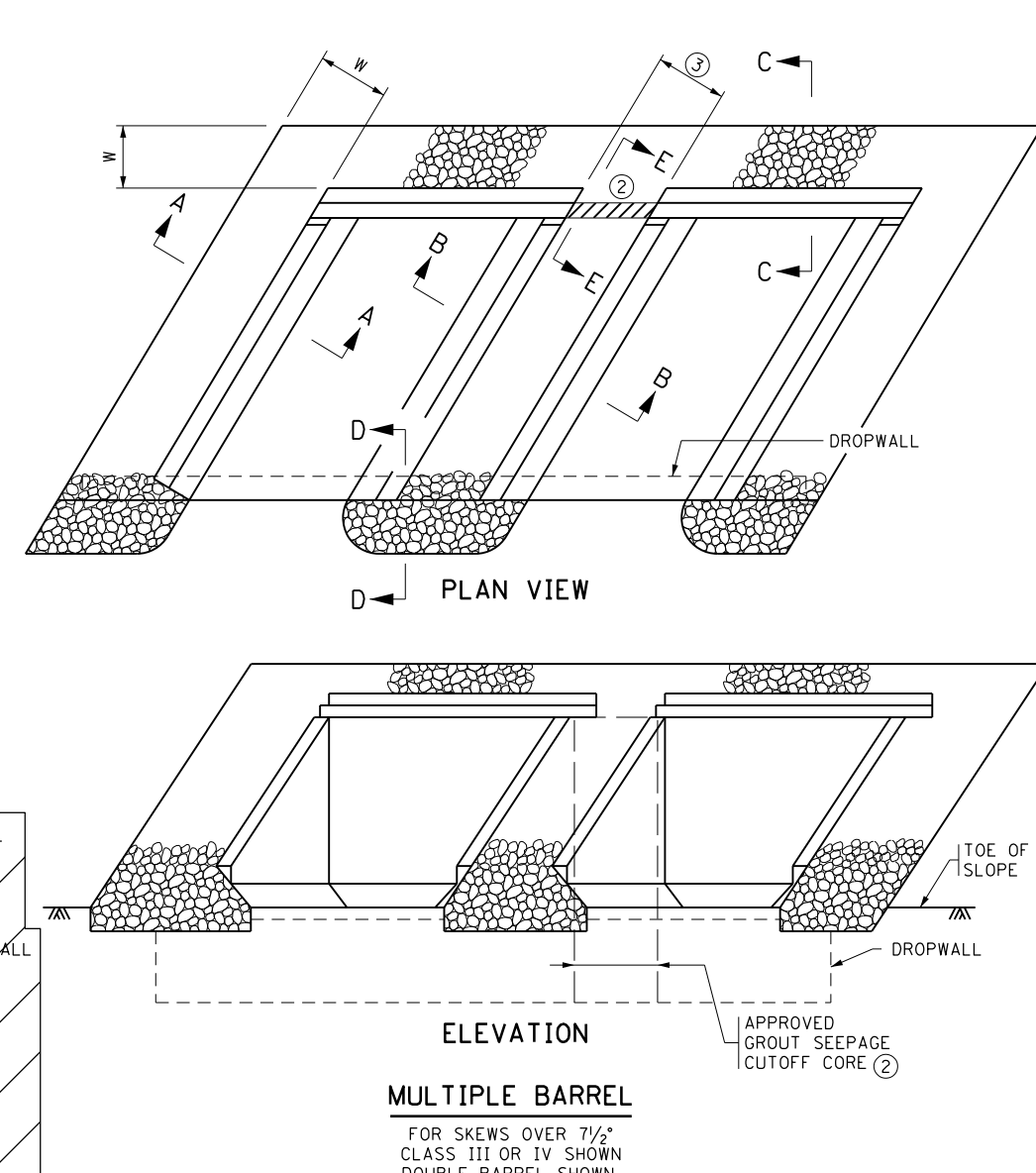
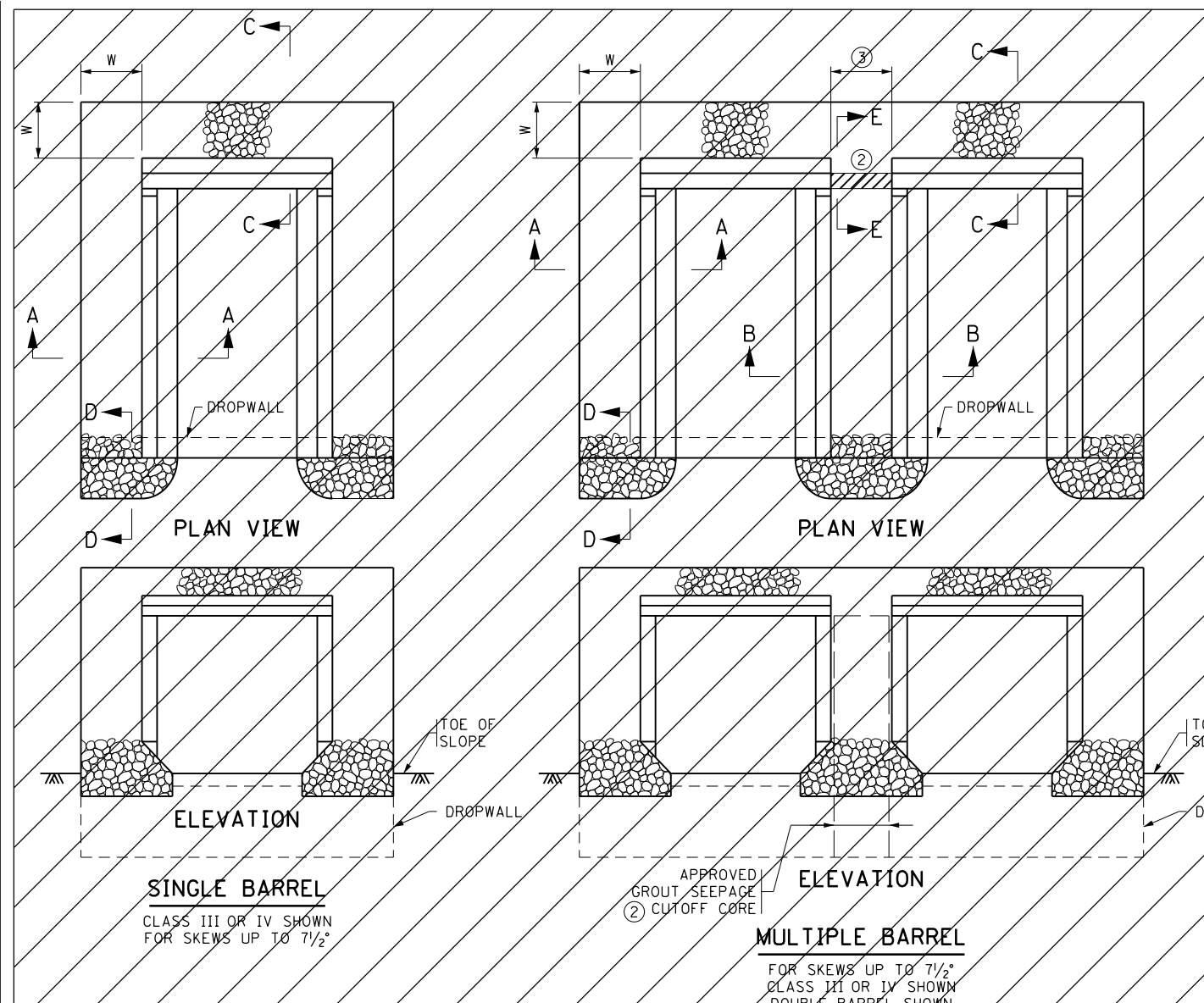
CONSTRUCTION NOTES

THIS PLAN SHEET IS FOR CULVERT EMBANKMENT PROTECTION ONLY. REFER TO THE GRADING PLANS FOR ADDITIONAL RIPRAP OR OTHER SCOUR PROTECTION MEASURES.

PROVIDE RIPRAP IN ACCORDANCE WITH SPECS. 2511 AND 3601.

EMBANKMENT PROTECTION, INCLUDING MATERIAL PLACED BETWEEN BARRELS THAT ARE LESS THAN 2'-0" APART, IS INCLUDED IN THE PRECAST CONCRETE BOX CULVERT PAY ITEMS.

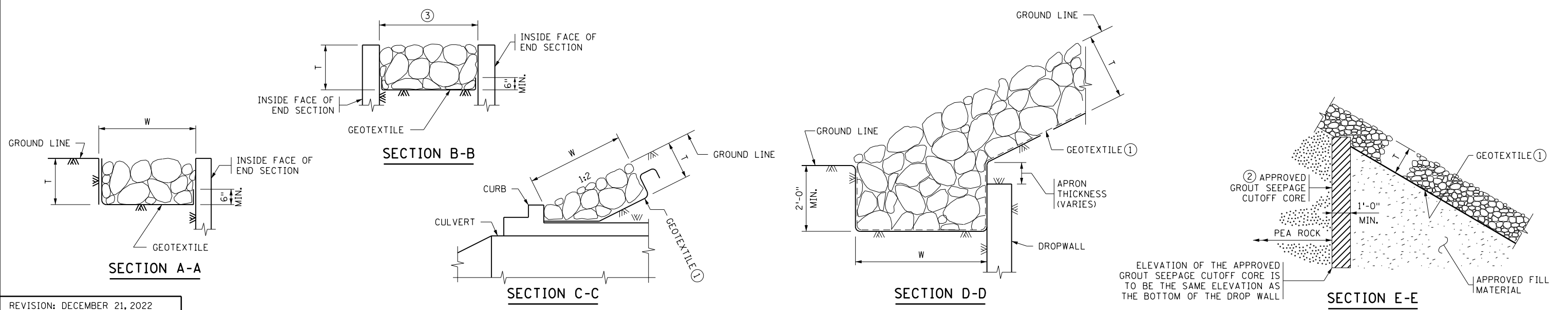
- ① PROVIDE TYPE 7 GEOTEXTILE IN ACCORDANCE WITH SPEC. 3733. PROVIDE GEOTEXTILE STRIPS CONTINUOUS WITHOUT OVERLAPS, EXCEPT FOR THE TOP STRIP, WHICH SHOULD SHINGLE VERTICAL STRIPS. BURY THE TOP EDGE TO PREVENT UNDERMINING.
- ② IF THE DISTANCE BETWEEN MULTIPLE BARRELS IS LESS THAN 2'-0" USE EITHER PEA ROCK OR LEAN MIX BACKFILL (SPEC. 2520) BETWEEN THE CULVERTS AS APPROVED BY THE ENGINEER. IF PEA ROCK IS USED PROVIDE APPROVED GROUT SEEPAGE CUTOFF CORE, MINIMUM 12" THICK BETWEEN THE CULVERT'S TWO ENDS AND PROVIDE CLASS I GROUTED RIPRAP IN LIEU OF CLASS III RIPRAP.
- ③ REFER TO THE GENERAL PLAN AND ELEVATION SHEET FOR THE DISTANCE BETWEEN BARRELS OF ADJACENT BOXES.



RIPRAP CLASS

RIPRAP CLASS	RIPRAP CLASS	T	W
☒	III	1'-6"	3'-0"
☐	IV	2'-0"	4'-0"

H:\AKCO\014124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_sup003.dgn
 Thomas.Doherty pdf-B and W.pltcfgr
 2/5/2024 10:40:22 AM
 bmi.tbi



REVISION: DECEMBER 21, 2022
 APPROVED: SEPTEMBER 11, 2014
Nancy D. Sibenberger
 STATE BRIDGE ENGINEER

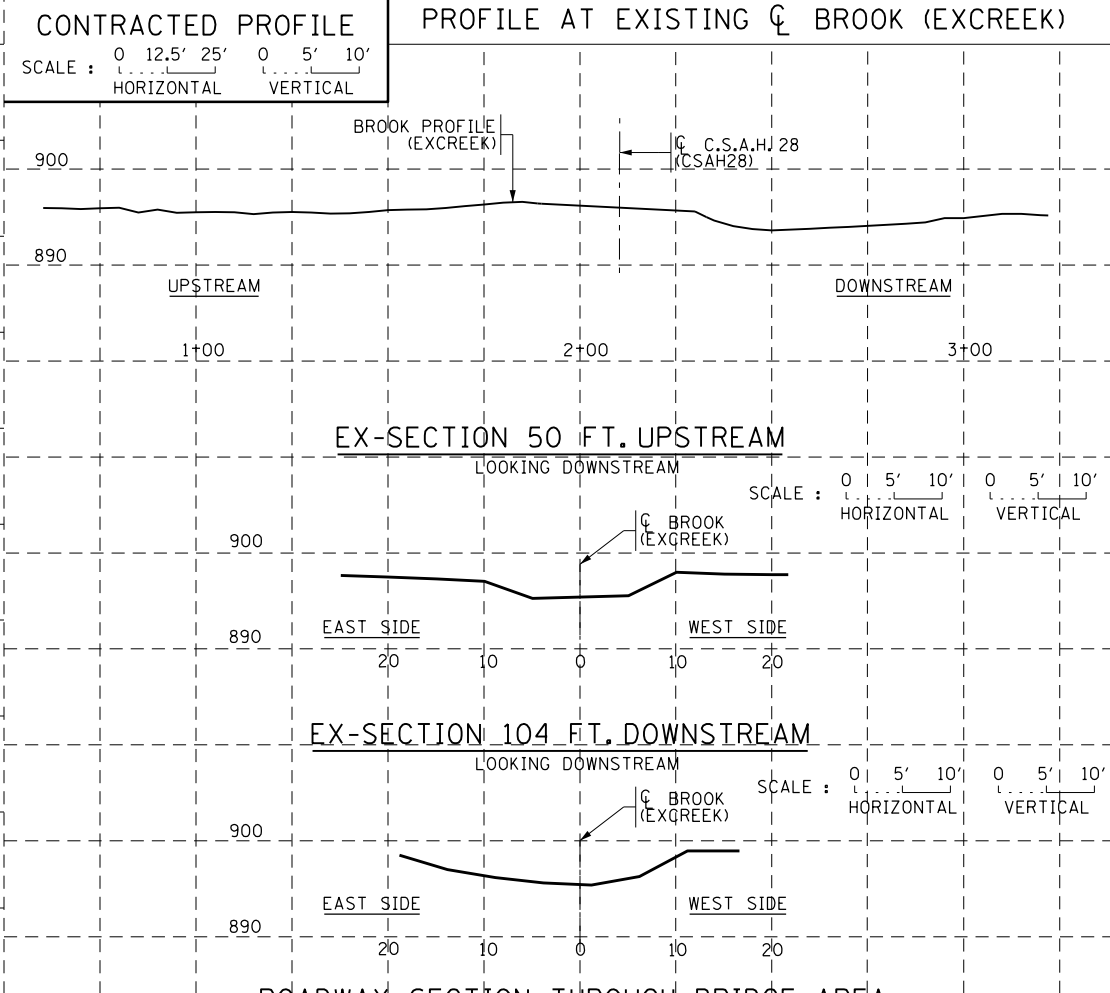
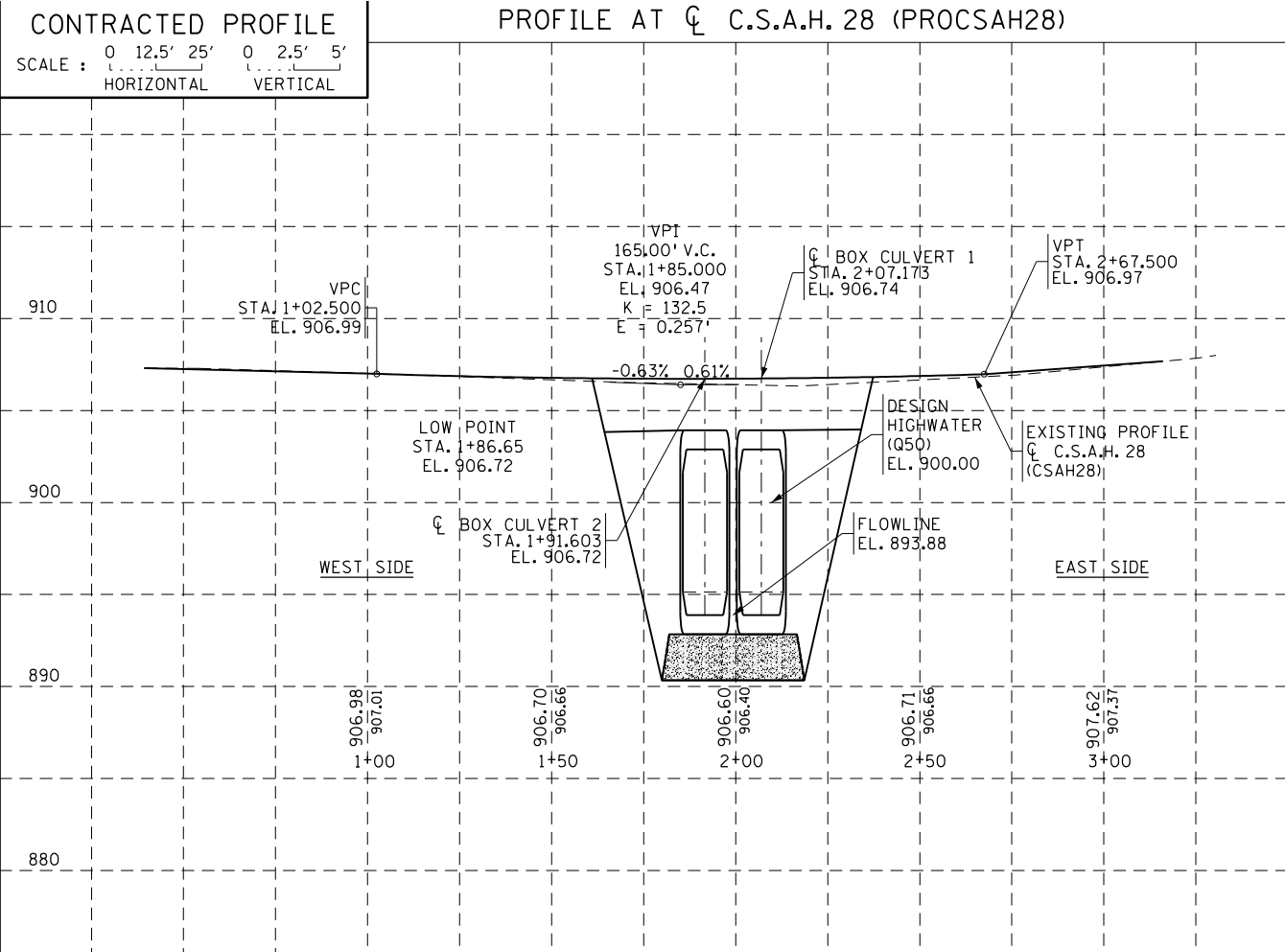
REV. NO.	DATE	REVISION DESCRIPTION	BY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

CERTIFIED BY: *Ryan R. Evans*
 LICENSED PROFESSIONAL ENGINEER
 NAME: RYAN R. EVANS
 DATE: 02/02/2024
 LIC. NO. 53920

STATE AID PROJ. NO. 002-628-008
EMBANKMENT PROTECTION FOR BOX CULVERTS

FIG. 5-395.115
 DES: TJD DR: TJD APPROVED:
 CHK: RRE CHK: RRE
 SHEET NO. 8 OF 28 SHEETS
BRIDGE NO. 02J56

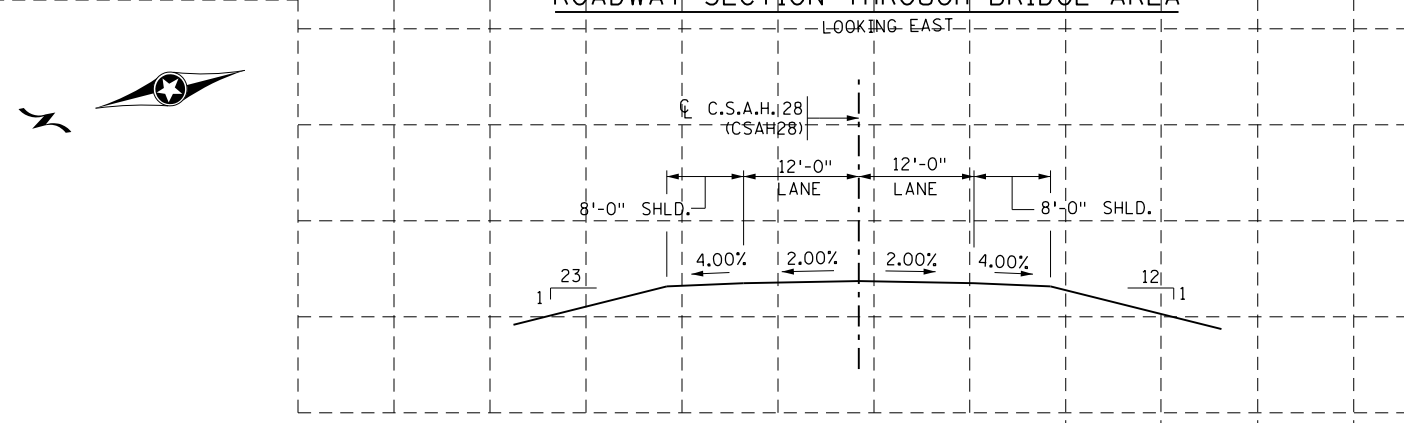
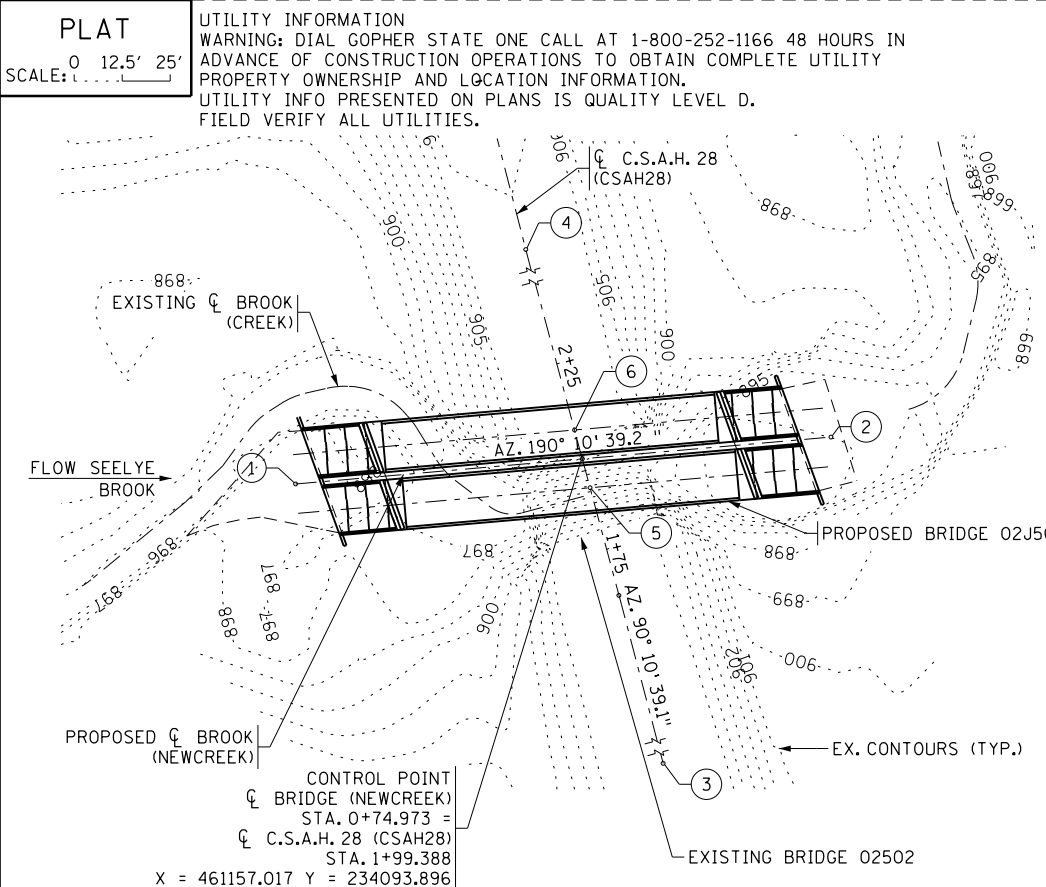


LOCATION ENGINEER'S OBSERVATIONS AT BRIDGE SITE

- SPECIAL FEATURES: WATERFALLS, DAMS, FLOODS, ICE, DEBRIS, SLIDING BANKS, RECREATIONAL BOATING.
- OTHER BRIDGES OR CULVERTS OVER THE SAME STREAM (PARTICULARLY STRUCTURES WHICH CARRY HIGH WATER WITHOUT OVERFLOW OF ROADWAY): GIVEN LOCATION, TYPE, LENGTH, HEIGHT ABOVE HIGH WATER, CROSS-SECTIONAL AREA ETC.
- APPARENT HIGHWATER ELEVATION OBTAINED FROM:
- OTHER DATA: APPROX. VELOCITY OF WATER AT TIME OF SURVEY.

HYDRAULIC ENGINEERS RECOMMENDATION
DATE: 12-21-22

STREAM OR DITCH DESIGNATION: SEELYE BROOK
DRAINAGE AREA: 29.4 SQ. MI.
MAX. FLOOD ON RECORD: UNK
MAXIMUM OBSERVED HIGHWATER ELEVATION: UNK
DESIGN FLOOD (50 YR. FREQ.): 504 C.F.S.
HEADWATER ELEVATION: 900.0
DESIGN MEAN VELOCITY THROUGH STRUCTURE: 4.3 F.P.S.
TOTAL STAGE INCREASE: 0.20 FT.
LOW MEMBER AT OR ABOVE ELEVATION: 903.1
BASIC FLOOD (100 YR. FREQ.): 1153 C.F.S.
HEADWATER ELEVATION: 902.3
TOTAL STAGE INCREASE: 1.00 FT.
MEAN VELOCITY THROUGH STRUCTURE: 7.6 F.P.S.
FLOWLINE ELEVATION: 895.10 SKEW ANGLE: 10°



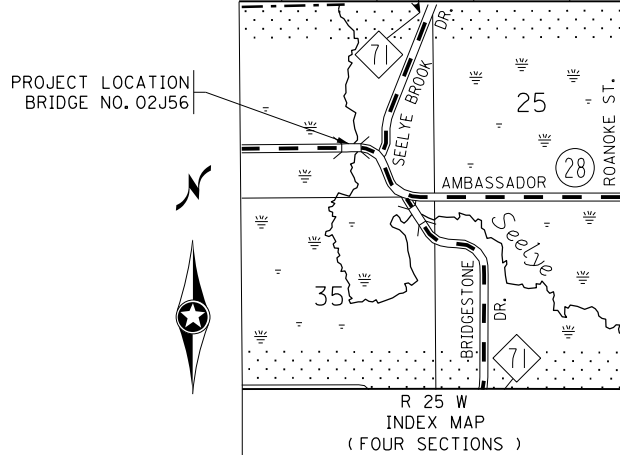
SCOUR CONFIRMATION RECOMMENDATION
DATE: XX-XX-XX

TOTAL SCOUR AT PIER EL. XXX.XX (500 OR 01 YR. FREQ.)
SCOUR CODE: OBTAIN FROM HYDRAULIC ENGINEER

BRIDGE SURVEY SHEETS MADE FROM :
ALIGN.DGN, TRAIL_GEOMETRY.DGN, EXTOPO.DGN, PROFILE.DGN, JOB006.GPK

BENCHMARK ELEVATION 907.018 (N.A.V.D. 88 ADJ.)
LOCATION:
NORTHING = 234079; EASTING = 461161
(N.A.D. 83 COUNTY PROJECT COORDINATES)
DESCRIPTION:
THE TOP OF THE MOST EASTERLY BOLT ON THE SOUTHEAST SIDE OF THE BRIDGE.

- P.O.T. STA. 0+00.000 C BRIDGE (NEWCREEK)
X = 461170.265 Y = 234167.689
- P.O.T. STA. 1+40.000 C BRIDGE (NEWCREEK)
X = 461145.527 Y = 234029.892
- P.O.T. STA. 0+71.798 C C.S.A.H. 28 (CSAH28)
X = 461029.428 Y = 234094.292
- P.O.T. STA. 3+18.695 C C.S.A.H. 28 (CSAH28)
X = 461276.324 Y = 234093.527
- INTERSECTION POINT
C BOX CULVERT 2 =
C C.S.A.H. 28 (CSAH28) STA. 1+91.603
X = 461149.233 Y = 234093.921
- INTERSECTION POINT
C BOX CULVERT 1 =
C C.S.A.H. 28 (CSAH28) STA. 2+07.173
X = 461164.802 Y = 234093.872



MINNESOTA DEPARTMENT OF TRANSPORTATION

BRIDGE SURVEY

C.S.A.H. 28 (AMBASSADOR BLVD. NW)
OVER SEELYE BROOK
830 FEET WEST OF THE INTERSECTION
C.S.A.H. 28 AND SEELYE BROOK DRIVE

IDENTIFICATION NO. 513

SEC. 26 T 34 N R 25 W
COUNTY ANOKA ST. FRANCIS TOWNSHIP

NO	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
RAMSEY, MINNESOTA 55303
Phone: (763) 433-2851
Email: Ramsey@bolton-menk.com
www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN R. EVANS
LIC. NO. 53920 DATE 02/02/2024

BRIDGE SURVEY

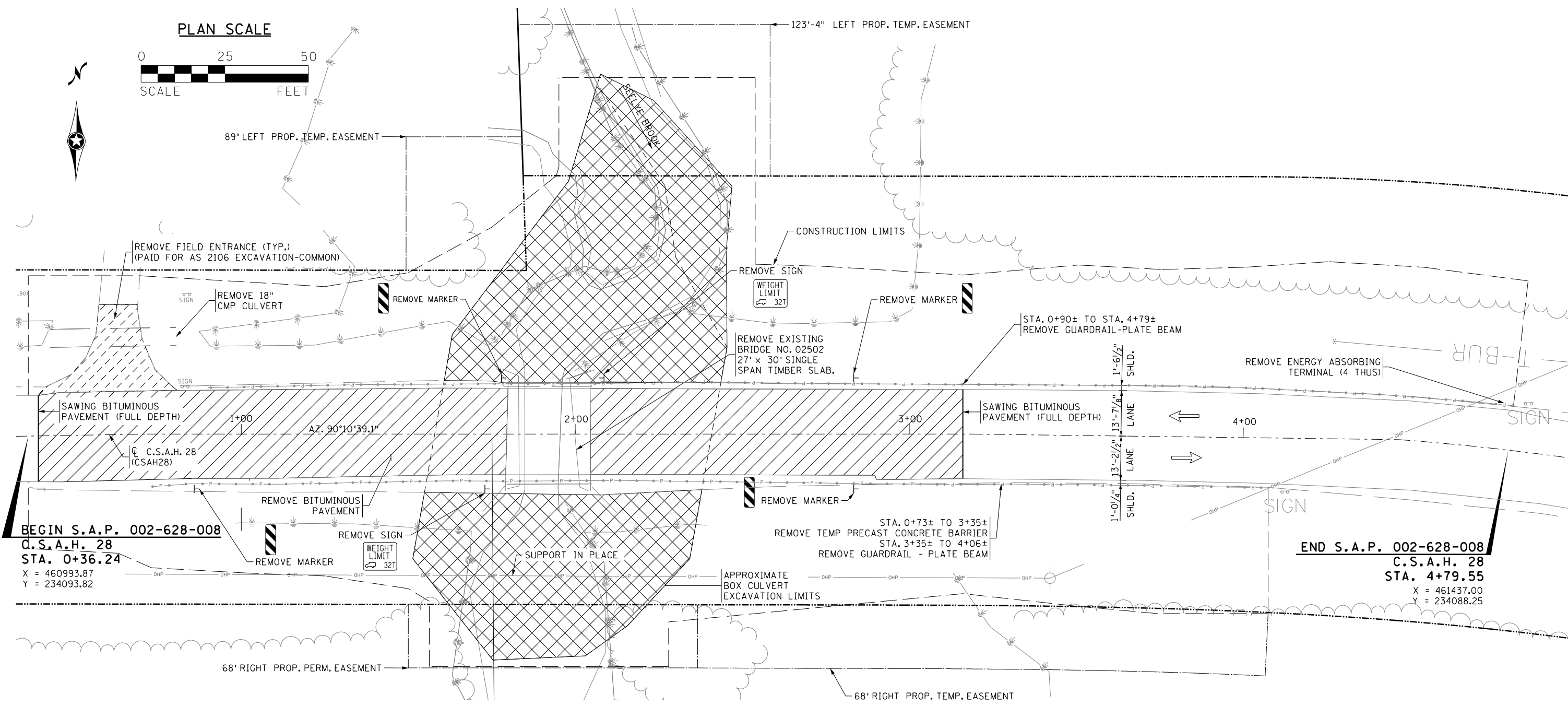
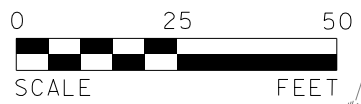
DESIGNED TJD
CHECKED RRE
DRAWN JMR
CHECK RRE
APPROVED
S.A.P. 002-628-008

BRIDGE NO.
02J56

SHEET NO. 9 OF 28 SHEETS

H:\AKCO\01424006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_sur-001.dgn
bmi.tbi
Thomas.Doherty pdf-B and W.pltcfgr
2/5/2024 10:40:24 AM

PLAN SCALE



BEGIN S.A.P. 002-628-008
C.S.A.H. 28
STA. 0+36.24
 X = 460993.87
 Y = 234093.82

END S.A.P. 002-628-008
C.S.A.H. 28
STA. 4+79.55
 X = 461437.00
 Y = 234088.25

LEGEND

- REMOVE FIELD ENTRANCE
- REMOVE BITUMINOUS PAVEMENT
- CHANNEL SHAPING
- REMOVE SIGN/MARKER
- CONSTRUCTION LIMITS
- EXISTING R/W
- PROPOSED TEMP. EASEMENTS

EXISTING CONDITIONS & UTILITIES AND REMOVALS

UTILITY INFORMATION

WARNING: DIAL GOPHER STATE ONE CALL AT 1-800-252-1166 A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS TO OBTAIN COMPLETE UTILITY PROPERTY OWNERSHIP AND LOCATION INFORMATION.

THE FOLLOWING LIST SHOWS THE UTILITY COMPANIES INVOLVED WITH THIS PROJECT

CENTURYLINK	800-778-9140
CONNEXUS ENERGY	763-323-4215
MIDCONTINENT COMMUNICATIONS	605-271-0202

GENERAL NOTES:

ALL UTILITY WORK SHOWN IN THIS PLAN SHALL BE DONE BY OTHERS UNLESS NOTED.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

ALL POWER LINES ARE DISTRIBUTION UNLESS NOTED OTHERWISE.

H:\XACO\01242006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_cp4.dgn
 Thomas, Doherty pdf-B and W.pltcfgr
 2/5/2024 10:40:25 AM bmi.tbi

NO.	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

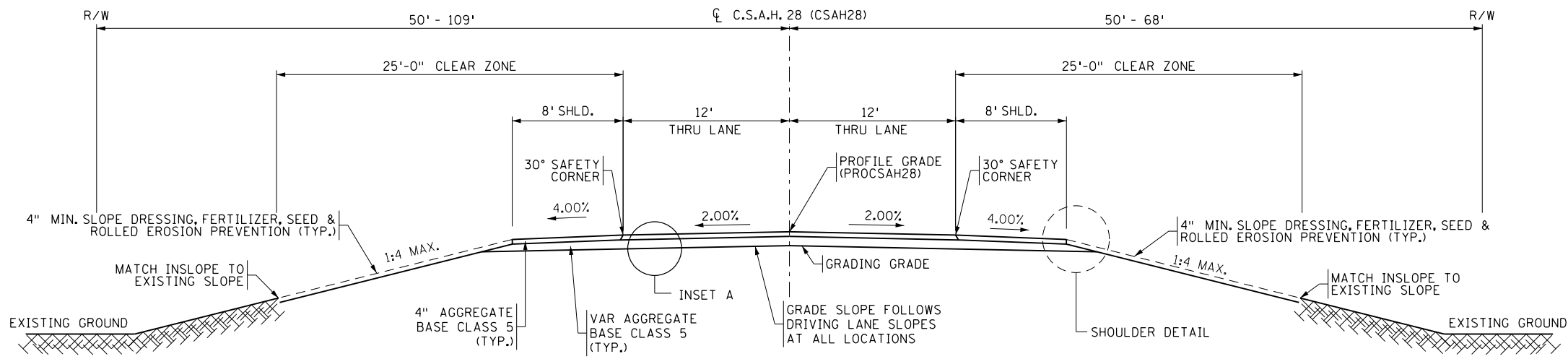
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN R. EVANS
 LIC. NO. 53920 DATE 02/02/2024

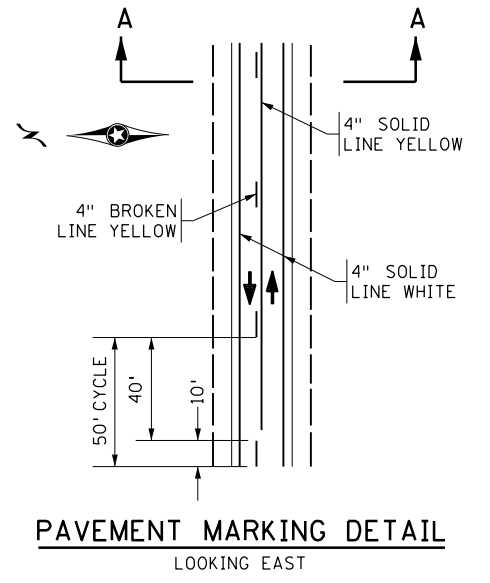
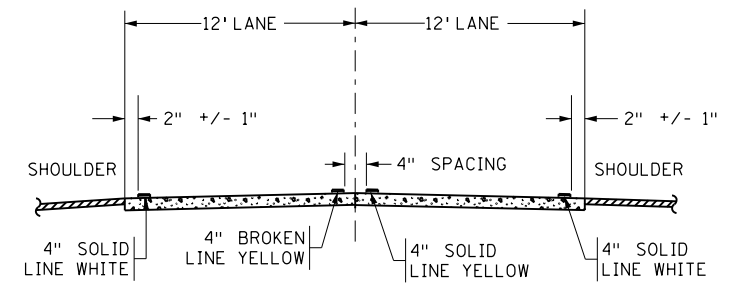
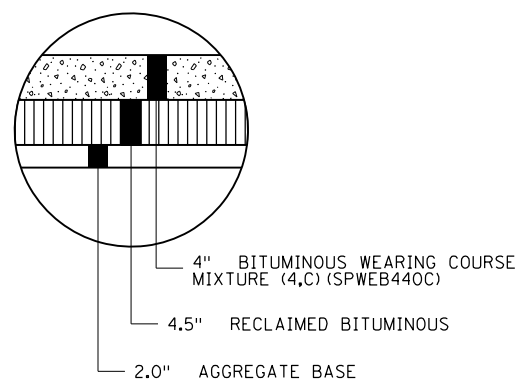
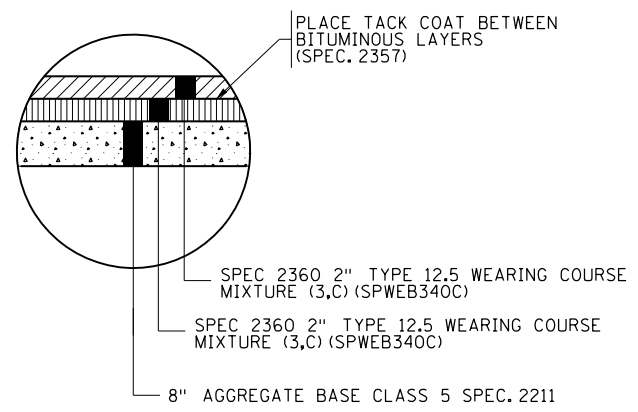
TITLE: **ROADWAY REMOVAL PLAN**

DESIGNED TJD	DRAWN JMR	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. NO. 002-628-008		
SHEET NO. 10 OF 28 SHEETS		

BRIDGE NO.
 02J56

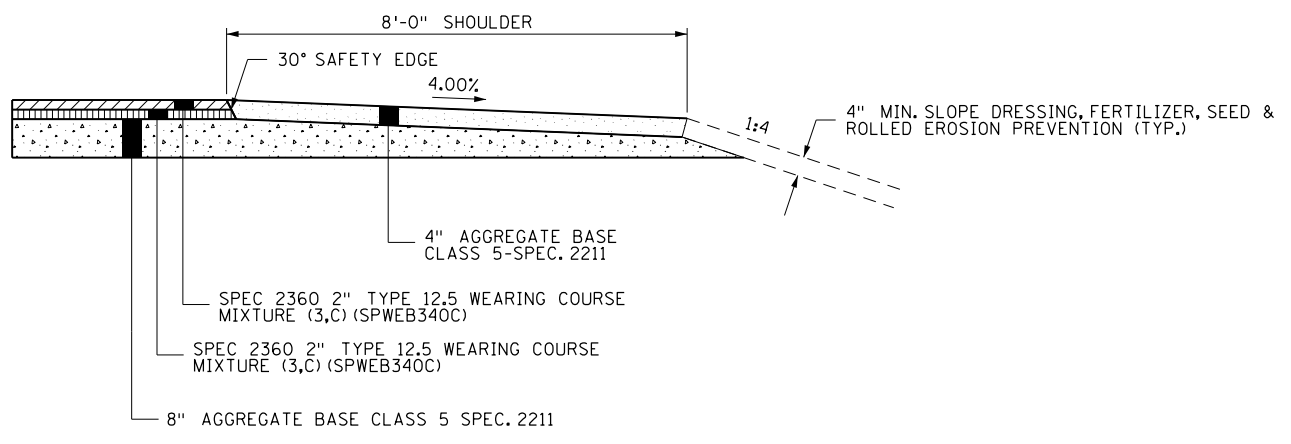


PROPOSED CSAH 28
 STA. 1+02.50 TO STA. 3+16.07
 LOOKING EAST



ROADWAY CONSTRUCTION NOTES

- ALL EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH MNDOT 2106. FOR ANY AREA DISTURBED BY CONSTRUCTION, PLACE A MINIMUM OF 4" OF SLOPE DRESSING MATERIAL. ANY SLOPE DRESSING NEEDED IN ADDITION TO SALVAGED TOPSOIL SHALL MEET THE REQUIREMENTS OF TOPSOIL MATERIAL (MNDOT SPEC 3877). PAID FOR AS COMMON EMBANKMENT.
- PRIOR TO CONSTRUCTION OR EXCAVATION, STRIP ALL IN-PLACE TOPSOIL AND SLOPE DRESSING MATERIALS IN AREAS TO BE DISTURBED BY CONSTRUCTION.
- TOPSOIL EXCAVATION IS INCLUDED IN EXCAVATION - COMMON. EXCAVATED TOPSOIL SHALL BE REUSED AS SLOPE DRESSING AS DIRECTED BY THE ENGINEER. SLOPE DRESSING IS INCLUDED IN COMMON EMBANKMENT (CV).
- PROVIDE A FULL DEPTH SAWCUT WHERE PLACING NEW PAVEMENT NEXT TO INPLACE PAVEMENT.
- ALL DISTURBED ROADWAY MATERIAL SUCH AS CONCRETE, BITUMINOUS AND AGGREGATES MAY BE UTILIZED ACCORDING TO MNDOT SPECIFICATIONS AND PROJECT SPECIAL PROVISIONS. MATERIALS NOT UTILIZED ON THE PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE RIGHT OF WAY IN ACCORDANCE WITH MNDOT SPECIFICATION 2104 AND AS AGREED UPON BY ENGINEER.
- VERIFY EXISTING ELEVATIONS ALONG EDGES WHERE NEW PAVEMENT MATCHES EXISTING.
- WHERE "REMOVE BITUMINOUS PAVEMENT" IS PERFORMED, THE CONTRACTOR SHALL FIRST SAW THE BITUMINOUS PAVEMENT FULL DEPTH ALONG THE REMOVAL LINE.
- PROVIDE TEMPORARY EROSION CONTROL MEASURES DURING AND AFTER BOX CULVERT CONSTRUCTION TO PREVENT SEDIMENTS AND CONTAMINANTS FROM ENTERING THE BROOK.
- FOR SUPERELEVATION DETAILS AND TRANSITIONS, SEE ROADWAY CONSTRUCTION SHEET.



H:\XACO\01424006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_cpl.dgn
 Thomas, Doherty pdf-B and W\plctfg
 bmi.tbi
 2/5/2024 10:40:26 AM

NO.	DATE	BY	CHK.	REVISIONS

BOLTON & MENK
 7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

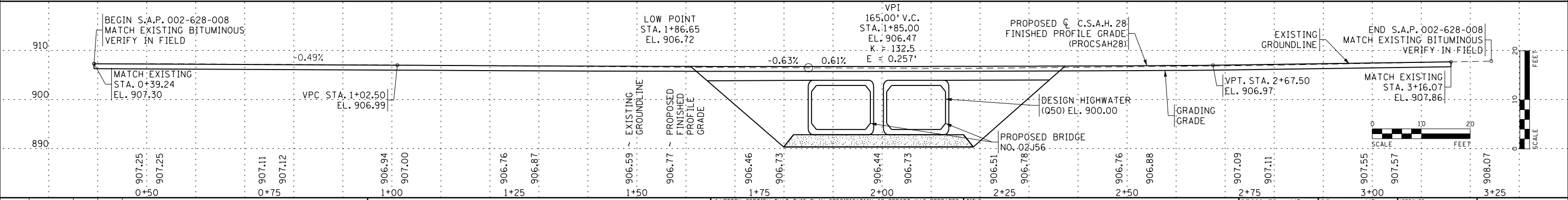
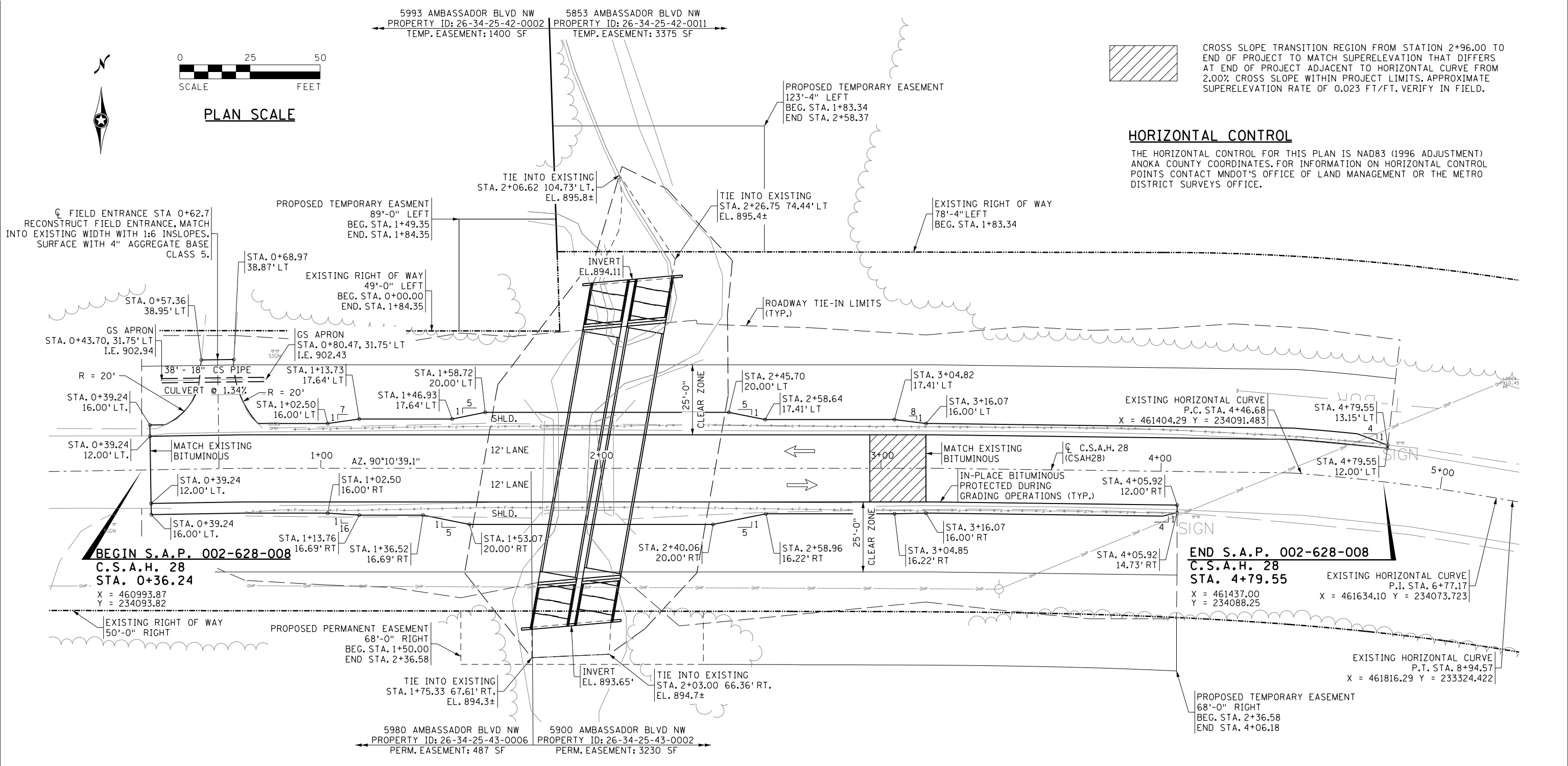
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 RYAN R. EVANS
 LIC. NO. 53920 DATE 02/02/2024

ROADWAY TYPICAL SECTIONS & DETAILS

DESIGNED TJD	DRAWN JMR	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. NO. 002-628-008		
SHEET NO. 11 OF 28 SHEETS		

BRIDGE NO. 02J56

H:\AKCO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_cp2.dgn
 Thomas, Doherty pdf-B and W.pltctg
 bmi.tbl
 2/5/2024 10:40:28 AM



NO	DATE	BY	CHK.	REVISIONS

BOLTON & MENK

7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

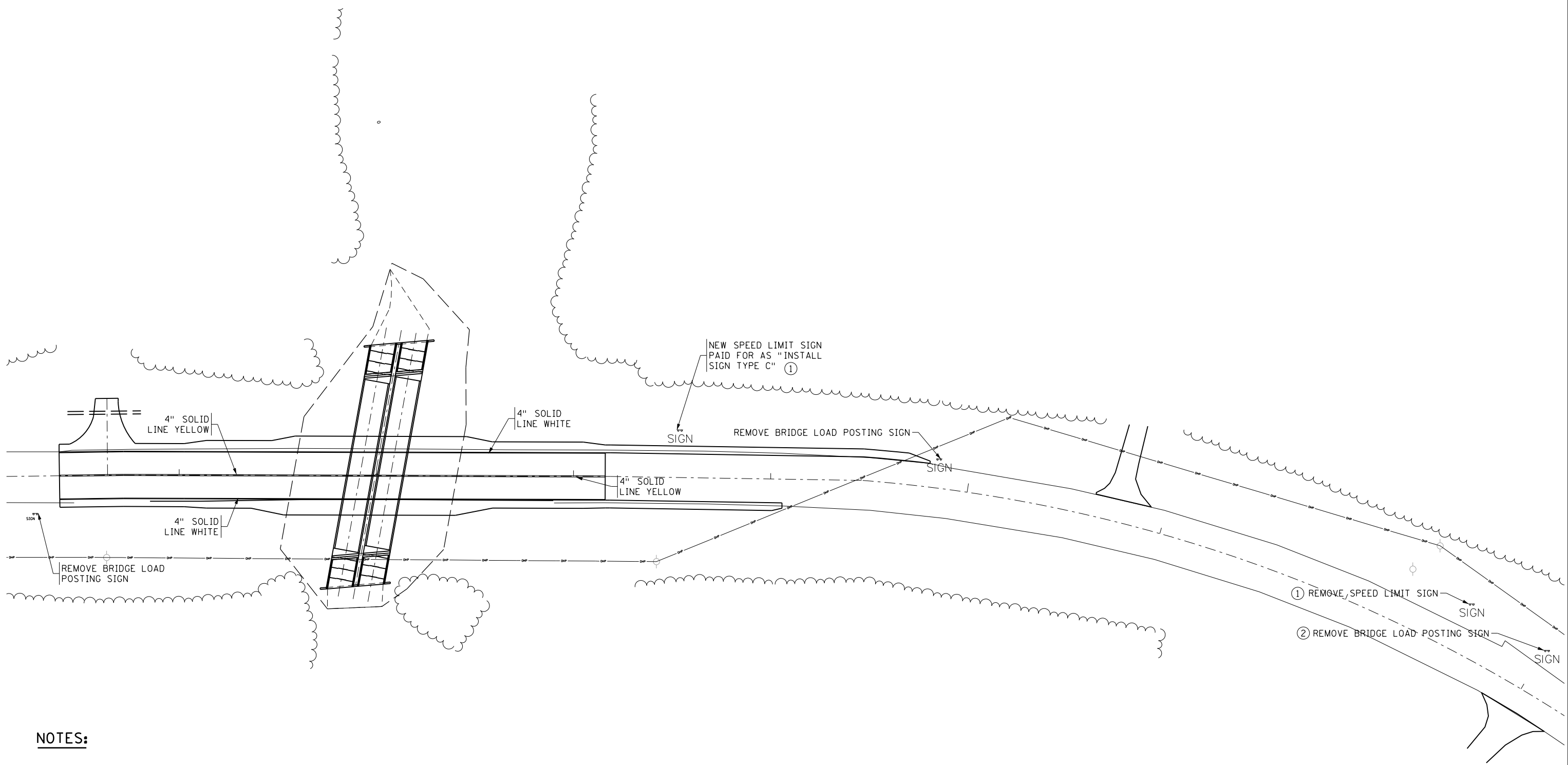
RYAN R. EVANS
 LIC. NO. 53920 DATE 02/02/2024

**ROADWAY CONSTRUCTION
 PLAN AND PROFILE**

DESIGNED JMR	DRAWN JMR	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. 002-628-008		
SHEET NO. 12 OF 28 SHEETS		

**BRIDGE NO.
 02J56**

H:\XACO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_traff003.dgn
 Thomas.Doherty pdf-B and W.pltcfq
 2/5/2024 10:40:29 AM
 bmi.tbl



NOTES:

- ① EXISTING SPEED LIMIT SIGN IS LOCATED IN THE MIDDLE OF ROADWAY HORIZONTAL CURVE. REMOVE SIGN. PLACE 55 MPH SPEED LIMIT SIGN AT THE NEW LOCATION AS SHOWN ABOVE. PAID FOR AS "INSTALL SIGN TYPE C".
- ② BRIDGE LOAD POSTING SIGN IS LOCATED AT NW CORNER OF AMBASSADOR BLVD (CSAH28) AND SEELYE BROOK DR NW INTERSECTION.

SIGNING AND STRIPING PLAN

NO	DATE	BY	CHK.	REVISIONS



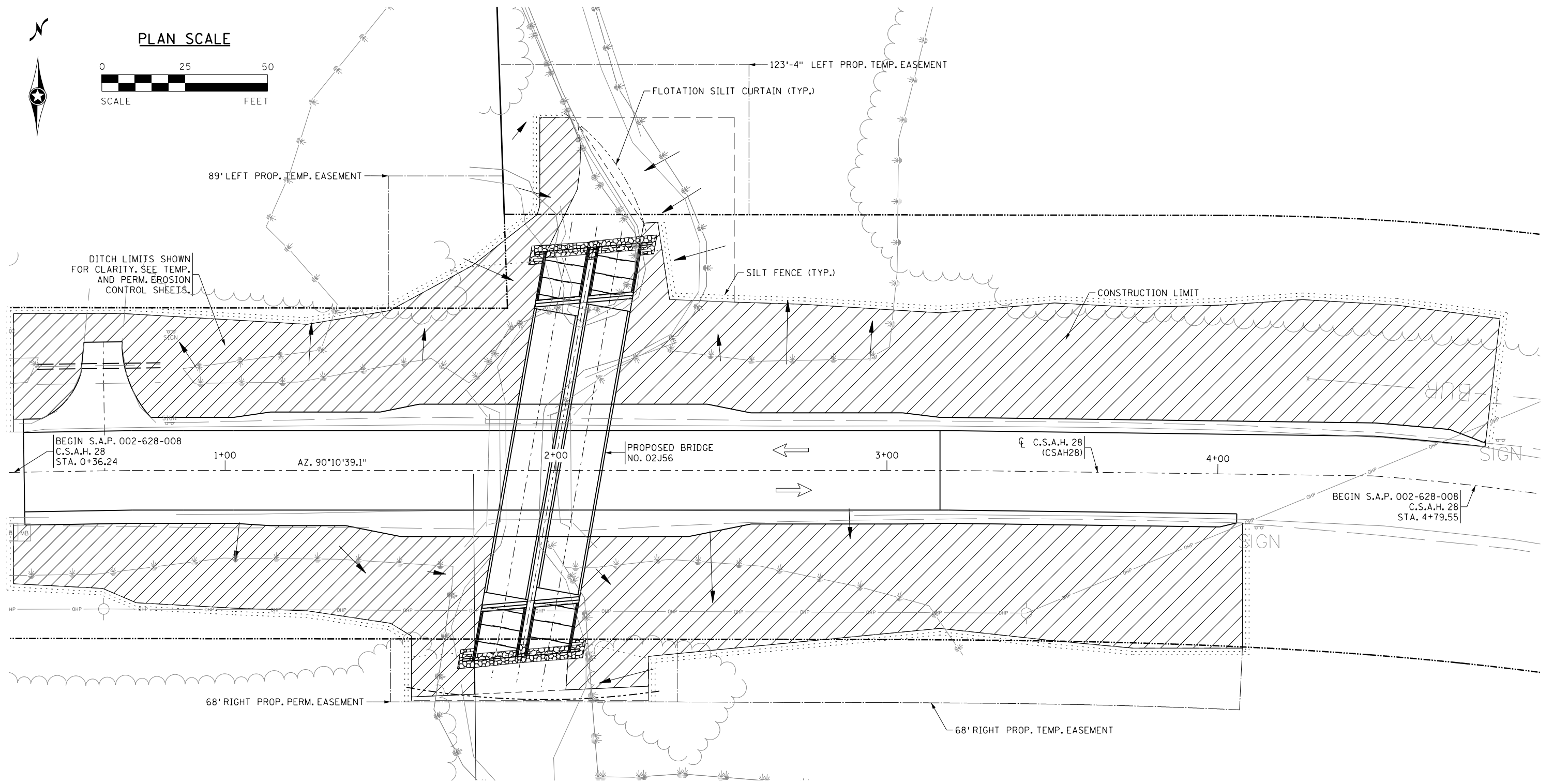
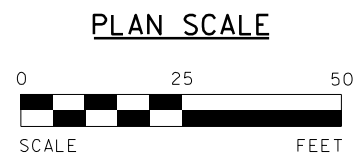
7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 RYAN R. EVANS
 LIC. NO. 53920 DATE 02/02/2024

TITLE:
**ROADWAY CONSTRUCTION
 SIGNING AND STRIPING PLAN**

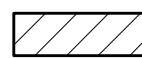
DESIGNED TJD	DRAWN TJD	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. NO. 002-628-008		
SHEET NO. 13 OF 28 SHEETS		

**BRIDGE NO.
 02J56**



TURF ESTABLISHMENT AND EROSION CONTROL PLAN

LEGEND



MNDOT SEED MIXTURE 34-171 (70 LBS./AC) TYPE 2 FERTILIZER AND EROSION CONTROL (WOOD FIBER) BLANKET CATEGORY 3 WITHIN 72 HOURS.



RIPRAP CLASS III

- SILT FENCE
- FLOTATION SILT CURTAIN
- CONSTRUCTION LIMITS
- EXISTING R/W
- PROPOSED R/W
- ▶ SURFACE FLOW DIRECTION

NO.	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
RAMSEY, MINNESOTA 55303
Phone: (763) 433-2851
Email: Ramsey@bolton-menk.com
www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN R. EVANS
LIC. NO. 53920 DATE 02/02/2024

TURF ESTABLISHMENT & EROSION CONTROL PLAN
SHEET 1 OF 2

DESIGNED TJD	DRAWN JMR	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. NO. 002-628-008		
SHEET NO. 14 OF 28 SHEETS		

BRIDGE NO.
02J56

H:\XCO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_swppp001.dgn
 Thomas, Doherty pdf-B and W\plctfg
 bmi.tbl
 2/5/2024 10:40:30 AM

CULVERT RIP RAP

THIS QUANTITY IS SHOWING RIPRAP AROUND CULVERT ENDS. SEE SHEET 8 FOR DETAILS.

LOCATION	CU. YARD
S. CULVERT END	25.93
N. CULVERT END	25.93
TOTAL =	51.85

SEEDING

SEED MIXTURE 250, EROSION CONTROL BLANKETS, AND FERTILIZER TYPE 2 USED FOR STABILIZATION ON ALL DISTURBED AREAS.

STA. TO STA.	LT/RT	WIDTH	ACRE
0+39 - 1+94	LT	VARIES	0.12
0+39 - 1+81	RT	VARIES	0.09
2+18 - 4+80	LT	VARIES	0.21
2+05 - 4+80	RT	VARIES	0.17
TOTAL =			0.59

SILT FENCE

SILT FENCE TYPE MS

STA. TO STA.	LT/RT	WIDTH	FEET
0+39 - 4+80	LT	VARIES	1216
0+39 - 4+80	RT	VARIES	824
TOTAL =			2040

FLOTATION SILT CURTAIN

FLOTATION SILT CURTAIN, TYPE MOVING WATER

LOCATION	FEET
SOUTH SIDE	78
NORTH SIDE	45
TOTAL =	123

GENERAL NOTES:

PRIOR TO SEEDING OR EROSION CONTROL INSTALLATION, THE CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE PROVISIONS OF MnDOT 2575.3. THE CONTRACTOR SHALL PROVIDE A SMOOTH, MOIST AND EVENLY TEXTURED FOUNDATION OF THE AREA TO BE COVERED. SAID WORK IS INCIDENTAL TO THE PROJECT.

THE QUANTITIES AND LOCATIONS OF ALL ITEMS SHOWN ON THE DETAIL SHEETS ARE APPROXIMATE AND WILL BE VERIFIED IN THE FIELD BY THE ENGINEER.

PLAN BID ITEMS SHALL BE USED TO MEET THE REQUIREMENTS OF THE NPDES PERMIT, THE PLAN AND THE SPECIFICATIONS. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR THE NUMBER OF MOBILIZATIONS REQUIRED OR AREA COVERED DURING MOBILIZATIONS.

FOR TEMPORARY TURF ESTABLISHMENT; RAPID STABILIZATION METHOD 1 SHALL BE PLACED IN AREAS EXPECTED TO LIE UNWORKED FOR MORE THAN 14 DAYS.

FOR PERMANENT TURF ESTABLISHMENT; SEED MIX AND APPLICATION RATE SHALL BE PER SPEC. 3876. SEED MIX SHALL BE A NON-NATIVE MIX. PLACE FERTILIZER TYPE 2 PRIOR TO SEED PLACEMENT AND TILL AS REQUIRED TO 3 INCH MINIMUM DEPTH.

THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE CONSTRUCTION LIMITS, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER. STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER.

ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

H:\XACO\0124006\CAD\MS\bridge\final\box extended for future trdill\cbr02j56_swppp002.dgn
 Thomas, Doherty pdf-B and W.pltcfgr
 2/5/2024 10:40:31 AM

NO	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

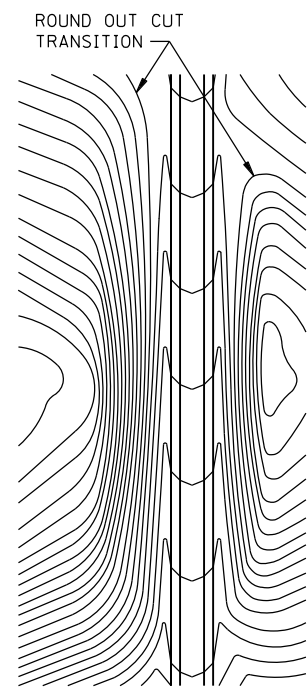
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

RYAN R. EVANS
 LIC. NO. 53920 DATE 02/02/2024

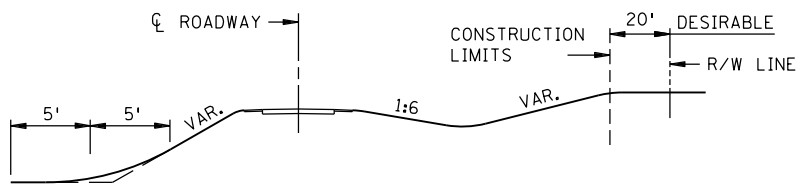
TURF ESTABLISHMENT
 & EROSION CONTROL PLAN
 SHEET 2 OF 2

DESIGNED	TJD	DRAWN	JMR	APPROVED
CHECKED	RRE	CHECK	RRE	
S.A.P. NO. 002-628-008				
SHEET NO. 15 OF 28 SHEETS				

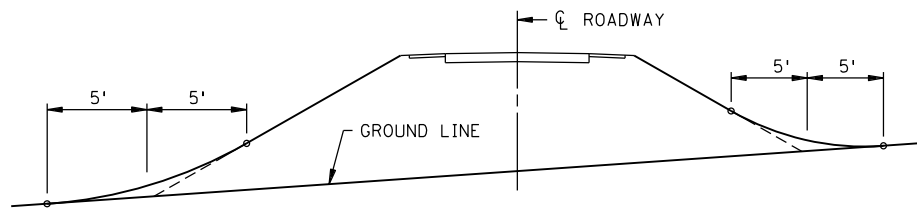
BRIDGE NO.
 02J56



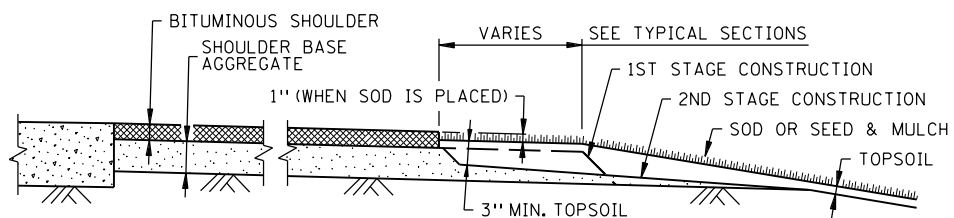
CONTOURING ROAD CUTS



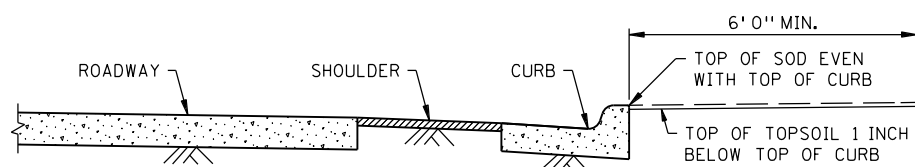
ROUNDING SHOULDERS AND BACKSLOPES



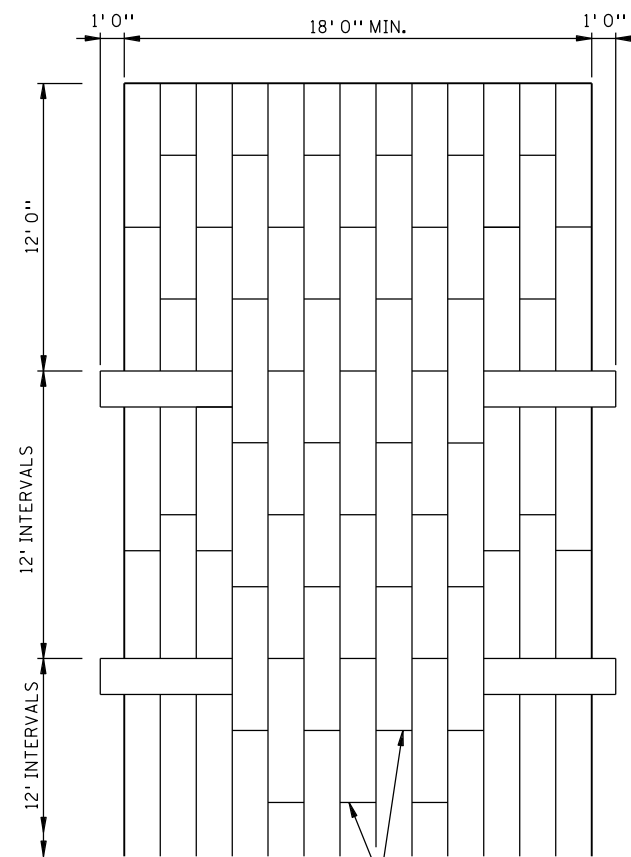
SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES



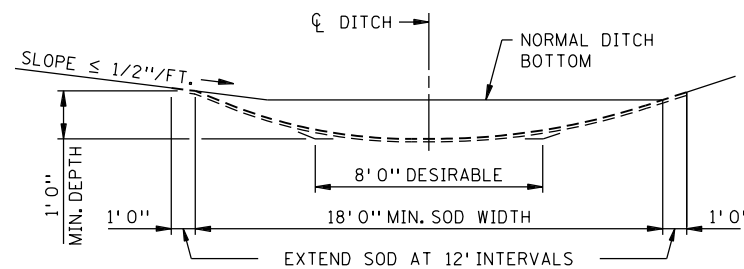
SHAPING AND TOPSOILING INSLOPES



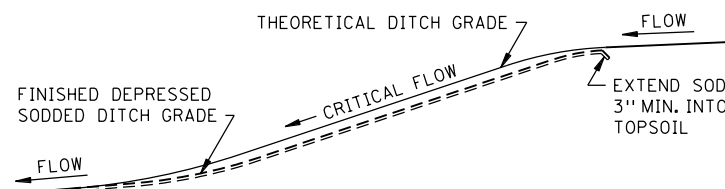
SHAPING ADJACENT TO CURBS WHEN SOD IS PLACED



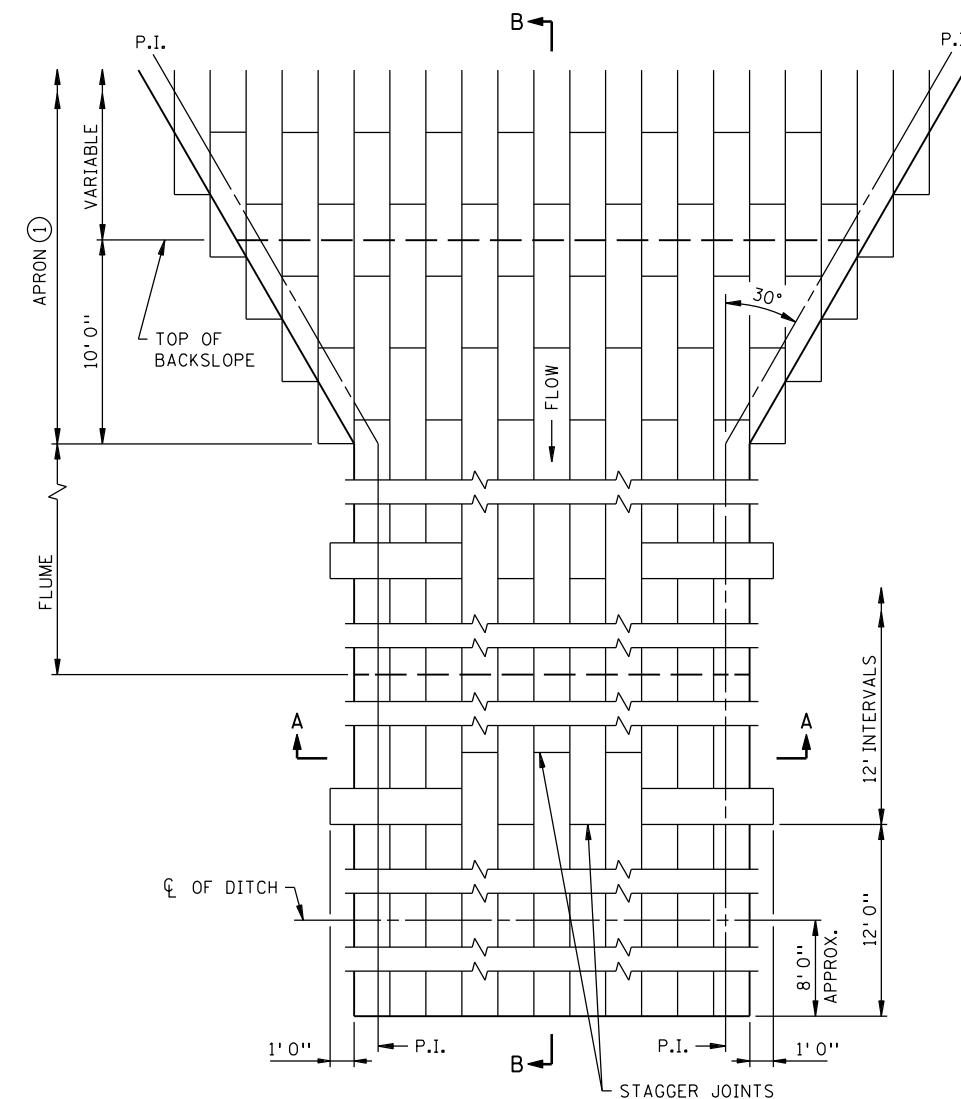
PLAN VIEW



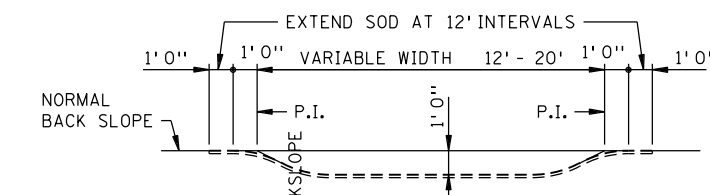
SODDED DITCH CROSS SECTION
WHERE FRONT OR BACK SLOPE IS FLAT (LESS THAN 1/2"/FT.), FIRST NOTCH DITCH AND THEN PROVIDE ROUNDING.



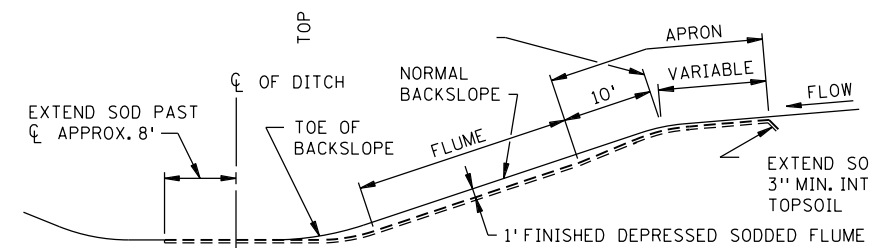
DITCH PROFILE
SODDED DITCH DETAILS



PLAN VIEW



SECTION A-A



SECTION B-B
SODDED FLUME DETAILS

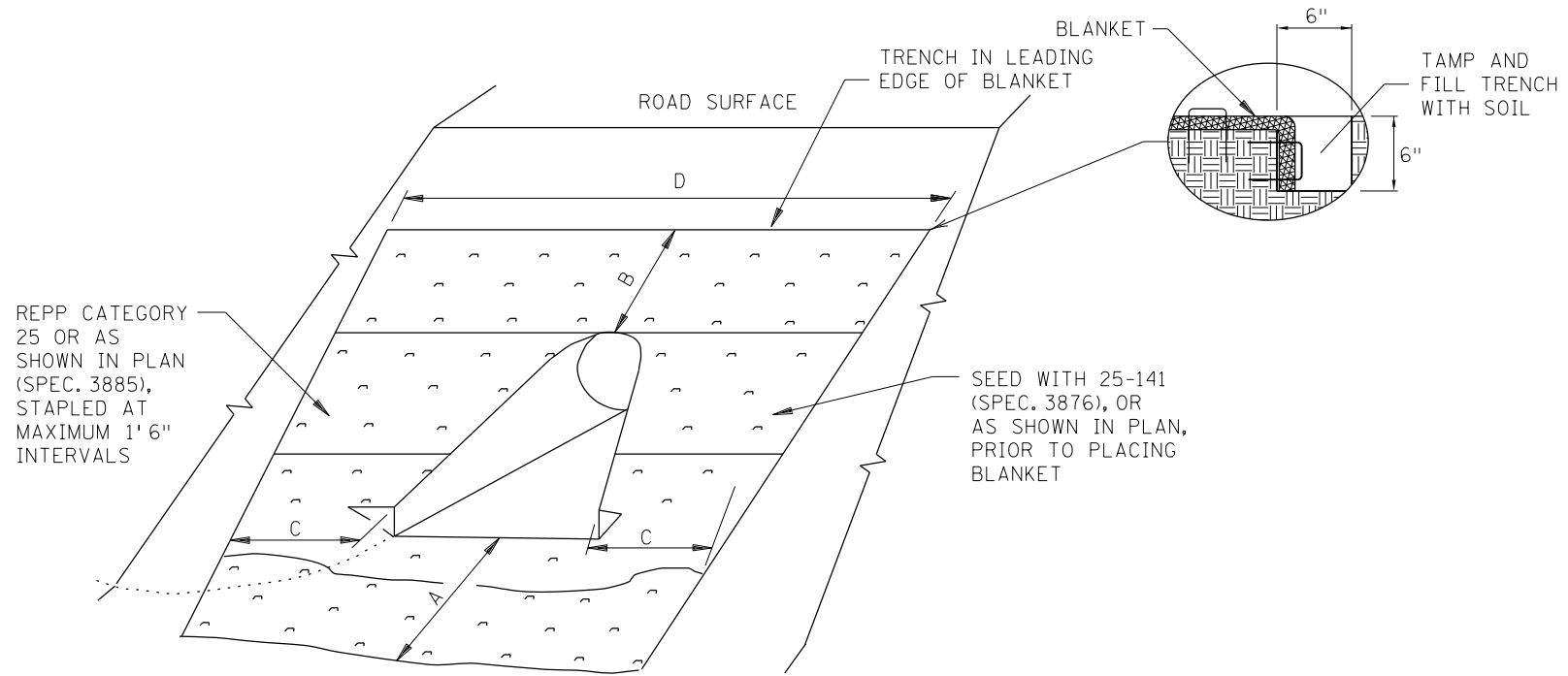
NOTES:
SEE SPEC. 2575.3 FOR ADDITIONAL INFORMATION.
① CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.

REVISION:
APPROVED: 2-28-2017
<i>[Signature]</i> CHIEF ENVIRONMENTAL OFFICER

	STANDARD PLAN 5-297.404	1 OF 3
	APPROVED: 2-28-2017 REVISED:	
STATE DESIGN ENGINEER <i>[Signature]</i>	STATE AID PROJ. NO. 002-628-008	

PERMANENT EROSION CONTROL
ALONG ROADWAYS, DITCHES AND FLUMES

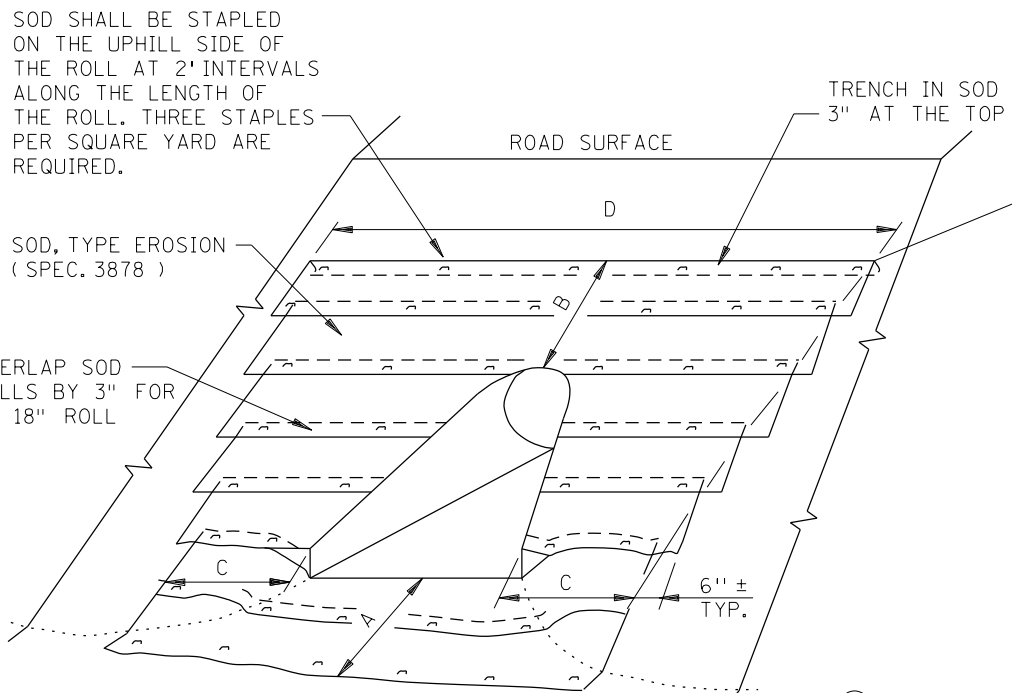
Thomas.Doherty pdf-B and W.plt.ctb
 2/5/2024 10:40:32 AM
 H:\AKCO\074124006\CAD\MS\bridge\final\box extended for future trail\cbr02J56_soi001.dgn
 bmi.tdi



ROLLED EROSION PREVENTION PRODUCT (BLANKET) & SEED DETAIL

CULVERT DIAMETER ②	SOD OR REPP (SQ. YDS.)						"A"	"B"	"C"	"D"
	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123, PLATE 3122)	CIRCULAR AND ARCH PIPE CONCRETE APRON (PLATE 3100, PLATE 3110)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:4 SLOPE (PLATE 3148)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:6 SLOPE (PLATE 3148)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:6 SLOPE (PLATE 3128)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:4 SLOPE (PLATE 3128)				
15"	9	9	8	8	N/A	N/A	3'	1.5'	3'	13'
18"	13	12	12	14	16	N/A	3'	3'	3'	16'
21"	14	14	14	16	18	14	3'	3'	3'	17'
24"	16	15	16	19	21	17	3'	3'	3'	18'
27"	N/A	20	N/A	N/A	N/A	N/A	3'	4.5'	3'	20'
30"	23	22	25	30	32	N/A	3'	4.5'	3'	22'
36"	34	34	39	48	51	37	4.5'	4.5'	4.5'	27'
42"	43	40	51	64	N/A	N/A	4.5'	6'	4.5'	30'
48"	54	50	66	82	N/A	N/A	4.5'	7.5'	4.5'	34'
54"	65	58	81	102	N/A	N/A	4.5'	9'	4.5'	37'
60"	69	59	91	115	N/A	N/A	4.5'	9'	4.5'	39'
66"	69	63	N/A	N/A	N/A	N/A	4.5'	9'	4.5'	39'
72"	78	72	99	122	N/A	N/A	4.5'	10.5'	4.5'	41'

CULVERT DIAMETER ②	SOD OR REPP (SQ. YDS.)						"A"	"B"	"C"	"D"
	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123, PLATE 3122)	CIRCULAR AND ARCH PIPE CONCRETE APRON (PLATE 3100, PLATE 3110)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:4 SLOPE (PLATE 3148)	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:6 SLOPE (PLATE 3148)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:6 SLOPE (PLATE 3128)	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:4 SLOPE (PLATE 3128)				
15"	10	10	9	10	N/A	N/A	4.5'	1.5'	3'	13'
18"	13	13	12	14	15	N/A	6'	1.5'	3'	14'
21"	16	14	16	18	19	15	6'	1.5'	3'	15'
24"	18	18	18	21	22	18	7.5'	1.5'	3'	16'
27"	N/A	19	N/A	N/A	N/A	N/A	7.5'	1.5'	3'	17'
30"	23	23	24	28	29	N/A	9'	1.5'	3'	18'
36"	36	35	38	47	48	37	10.5'	1.5'	4.5'	23'
42"	43	40	47	58	N/A	N/A	12'	1.5'	4.5'	25'
48"	50	46	57	70	N/A	N/A	13.5'	1.5'	4.5'	27'
54"	57	50	67	84	N/A	N/A	15'	1.5'	4.5'	29'
60"	74	63	90	113	N/A	N/A	16.5'	1.5'	6'	33'
66"	75	67	N/A	N/A	N/A	N/A	16.5'	1.5'	6'	33'
72"	77	70	92	114	N/A	N/A	16.5'	1.5'	6'	34'



SODDING DETAIL

- ① ADDITIONAL QUANTITIES MAY BE SHOWN IN THE PLAN OR REQUIRED BY THE ENGINEER.
- ② FOR ARCH PIPE USE CLOSEST CIRCULAR PIPE DIAMETER AND APRON SLOPE. DIAMETERS LARGER THAN 72" REQUIRE SPECIAL DESIGNS.

NOTES:

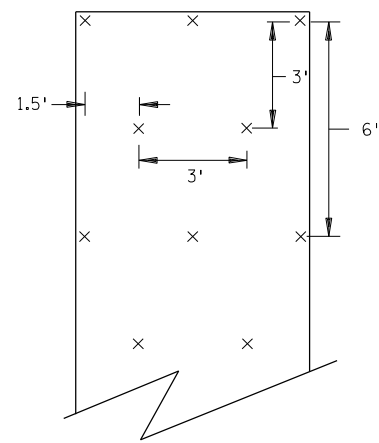
- REPP = ROLLED EROSION PREVENTION PRODUCT.
- AREA SHOWN IN SQUARE YARDS IS FOR ONE CULVERT END.
- QUANTITIES ARE CALCULATED TO INCLUDE SOD REQUIRED TO PROVIDE A 3" OVERLAP ON ALL 18" WIDE ROLLS. THIS ALLOWS FOR SHRINKAGE OF THE SOD.
- FOR PIPE ARCHES USE EQUIVALENT PIPE DIAMETER TO APPROXIMATE AREA.
- FOR CORRUGATED POLYETHYLENE PIPE METAL APRON (PLATE 3129), USE THE METAL APRON COLUMN (PLATE 3123).
- AREAS AND DIMENSIONS ARE APPROXIMATE AND ARE BASED ON APRON SIDE SLOPES OF NO STEEPER THAN 1:2, UNLESS INDICATED AS FOR SAFETY APRONS.
- CARE SHOULD BE TAKEN IN SELECTING SOD TO STABILIZE THE APRON. RIP-RAP SHOULD BE USED FOR FLOW VELOCITIES GREATER THAN 6 FPS.

bmi.tbl
H:\AKCO\014124006\CAD\MS\bridge\final\box extended for future trail\cbr-02j56_soi1002.dgn
2/5/2024 10:40:32 AM
Thomas.Doherty pdf-B and W.pltfcg

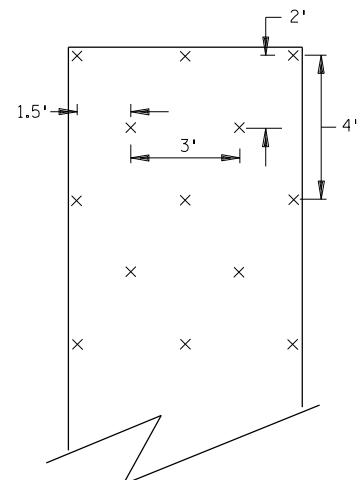
REVISION:
APPROVED: JANUARY 8, 2020
Marni Karnowski
MARNI KARNOWSKI
CHIEF ENVIRONMENTAL OFFICER

m MINNESOTA DEPARTMENT OF TRANSPORTATION
STANDARD PLAN 5-297.404 2 OF 3
Tom Styrbicki
THOMAS STYRBICKI
STATE DESIGN ENGINEER
APPROVED: 1-8-2020
REVISED:

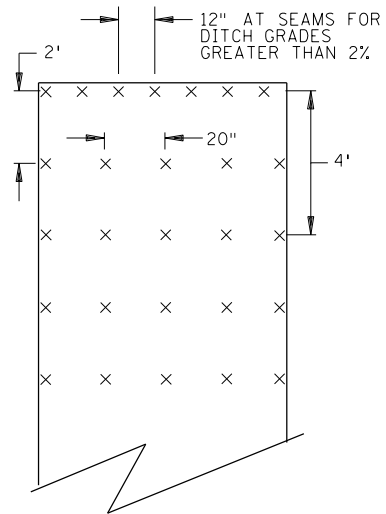
PERMANENT EROSION CONTROL
TURF ESTABLISHMENT DETAIL AT CULVERT ENDS
STATE AID PROJ. NO. 002-628-008
SHEET NO. 17 OF 28 SHEETS



SLOPES FLATTER THAN 1:2
120 STAPLES PER 100 SQ YD

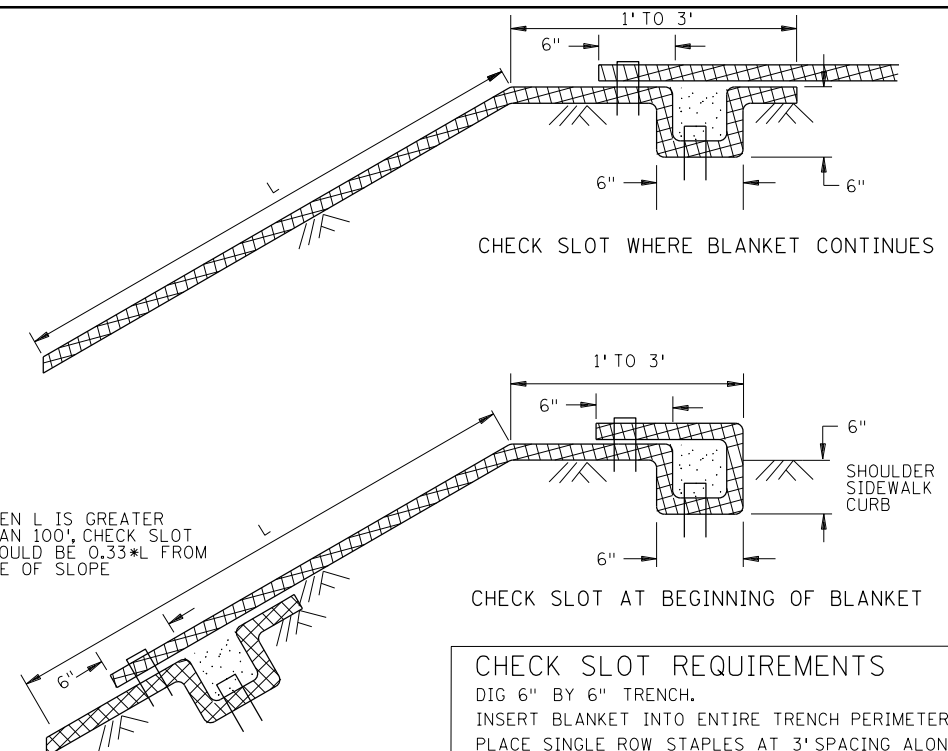


SLOPES 1:2 TO 1:1
170 STAPLES PER 100 SQ YD



CHANNEL AND DITCH APPLICATIONS
350 STAPLES PER 100 SQ YD

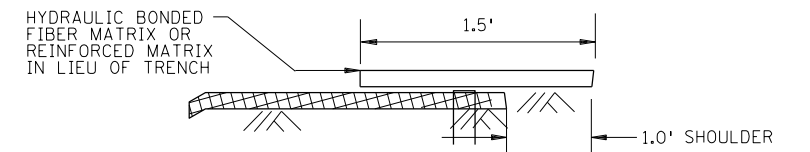
BLANKET STAPLE PATTERN



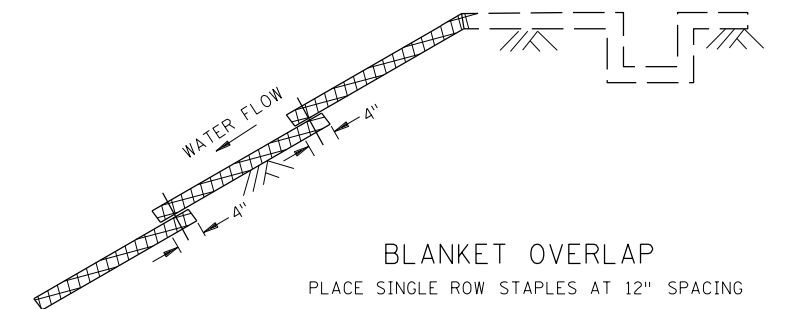
CHECK SLOT WHERE BLANKET CONTINUES

CHECK SLOT AT BEGINNING OF BLANKET

CHECK SLOT REQUIREMENTS
DIG 6" BY 6" TRENCH.
INSERT BLANKET INTO ENTIRE TRENCH PERIMETER.
PLACE SINGLE ROW STAPLES AT 3" SPACING ALONG THE BOTTOM OF THE TRENCH.
BACKFILL TRENCH WITH SOIL AND TAMP.
PLACE SINGLE ROW STAPLES AT 3" SPACING ON OVERLAP.

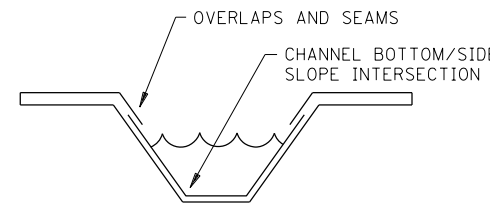


CHECK SLOT ALTERNATIVE
PLACE SINGLE ROW STAPLES AT 12" SPACING
CHECK SLOT DETAILS



BLANKET OVERLAP
PLACE SINGLE ROW STAPLES AT 12" SPACING

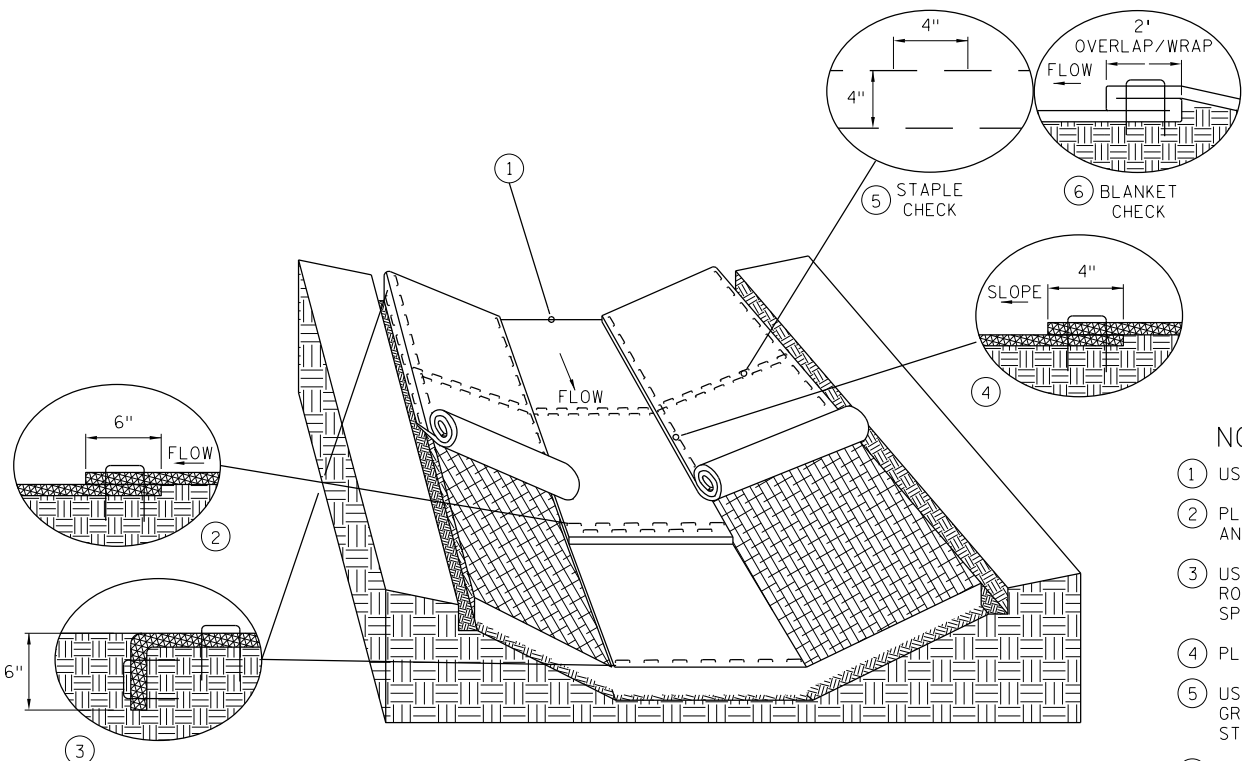
GENERAL BLANKET INSTALLATION REQUIREMENTS
REPP = ROLLED EROSION PREVENTION PRODUCT.
PREPARE SOIL AS PER SPECIFICATION 2574.
LAY PARALLEL OR PERPENDICULAR TO THE DIRECTION OF WATER FLOW.
OVERLAP ADJACENT STRIP EDGES A MINIMUM OF 4".
OVERLAP BLANKET 6" (MINIMUM) AT EACH END. OVERLAP BOTTOM END OF UPPER BLANKET OVER TOP END OF LOWER BLANKET. STAPLE ALONG OVERLAP EVERY 1.5'.
THE UPPERMOST BLANKET OF ALL SLOPE APPLICATIONS MUST START IN A CHECK SLOT. IF SLOPE LENGTH (L) IS 100' OR GREATER, INSERT BLANKET INTO A CHECK SLOT 1/3 FROM THE BOTTOM OF THE SLOPE.



DITCH BLANKET CRITICAL POINTS ⑦

NOTES:

- ① USE CHECK SLOT DETAIL (NO ALTERNATES).
- ② PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER.
- ③ USE 6" X 6" TRENCH TO PLACE BLANKET. PLACE SINGLE ROW OF STAPLES ON TOP AND TRENCH SIDES AT 12" SPACING. BACKFILL TRENCH WITH SOIL AND TAMP.
- ④ PLACE SINGLE ROW OF STAPLES AT 12" SPACING.
- ⑤ USE STAPLE CHECK FOR CHANNEL SLOPES LESS THAN 2.5%. GRADE AT 100' INTERVALS. PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND AT 4" SPACING.
- ⑥ USE BLANKET CHECKS FOR THE FOLLOWING SLOPES:
2.5%-3% 100' INTERVALS
3%-5% 50' INTERVALS
5%-7% 25' INTERVALS
- ⑦ CRITICAL POINTS SHALL BE SECURED WITH PROPER STAPLE PATTERNS.



DITCH BLANKET STAPLE DETAIL

bmi.tbi
H:\AKCO\014124006\CAD\MS\bridge\final\box extended for future trail\cbr02J56_soi003.dgn
Thomas.Doherty pdf-B and W.pltctg
10:40:33 AM
2/5/2024

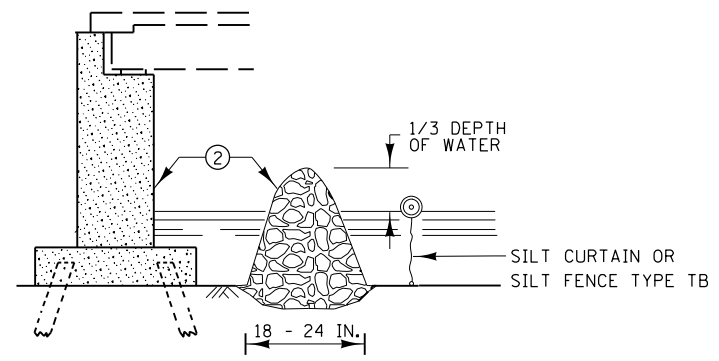
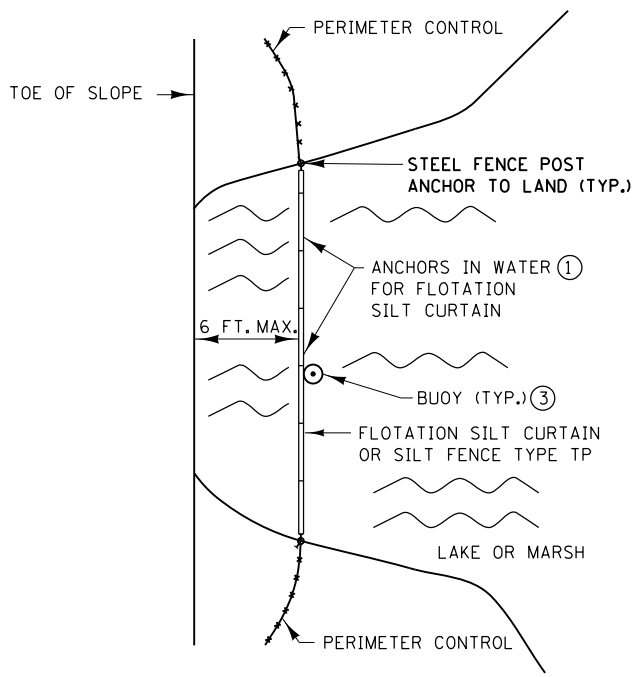
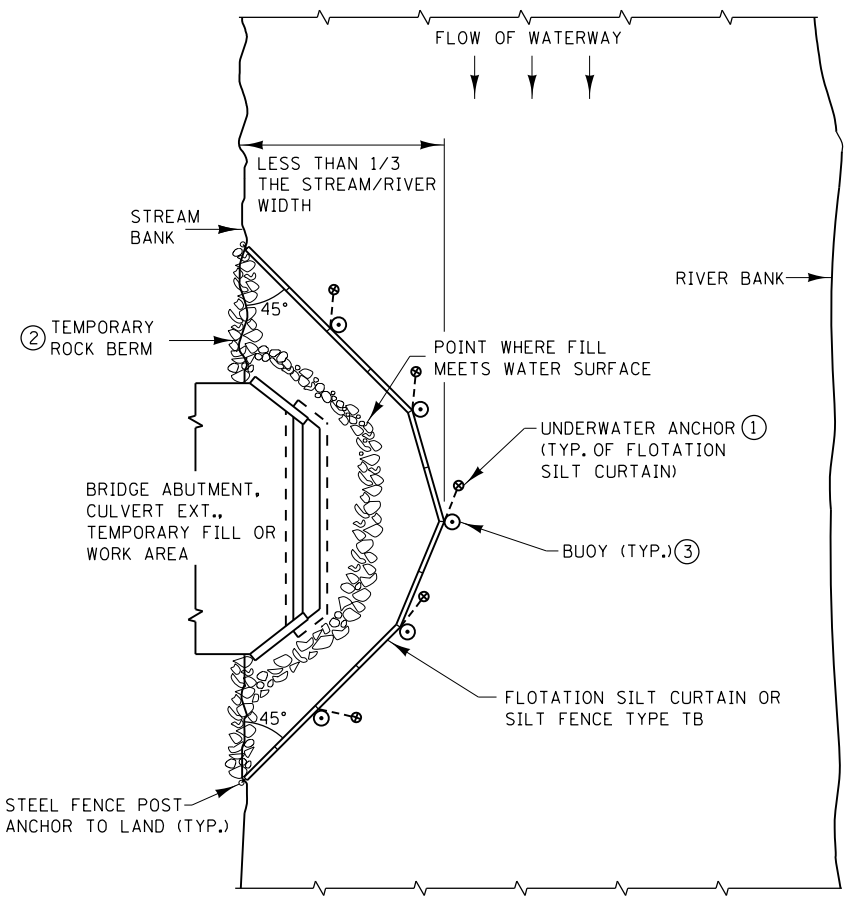
REVISION:
APPROVED: JANUARY 8, 2020
Marni Karnowski
MARNI KARNOWSKI
CHIEF ENVIRONMENTAL OFFICER

m
MINNESOTA
DEPARTMENT
OF
TRANSPORTATION

STANDARD PLAN 5-297.404
3 OF 3
Tom Styrbicki
THOMAS STYRBICKI
STATE DESIGN ENGINEER

APPROVED: 1-8-2020
REVISED:

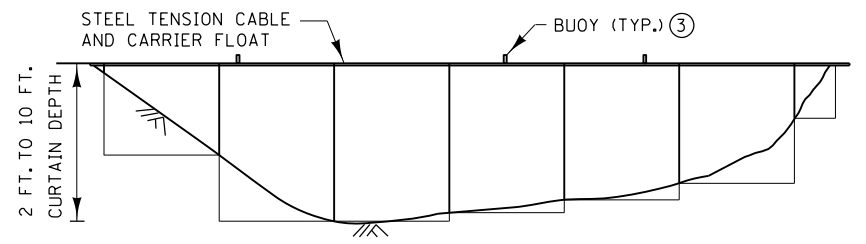
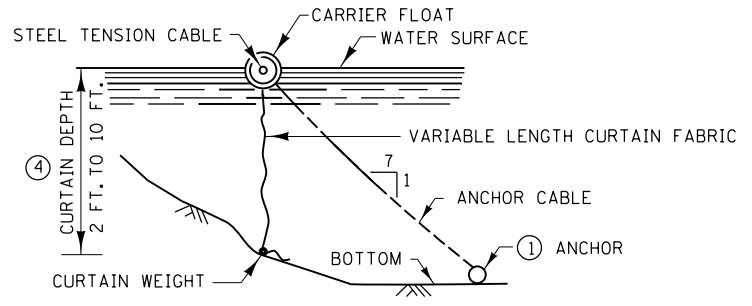
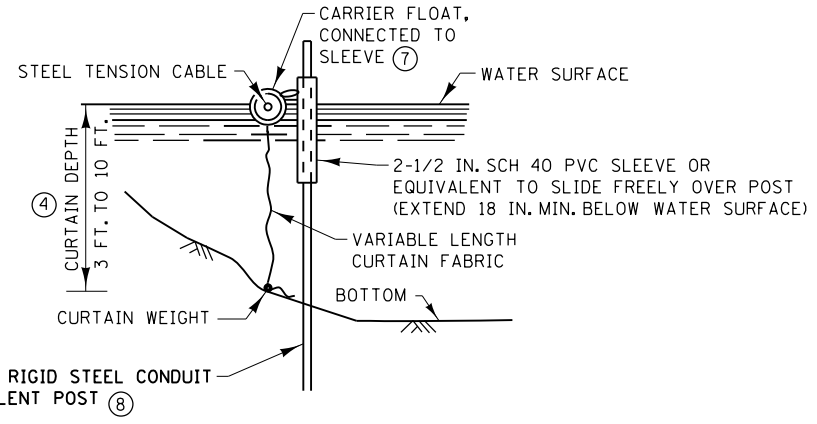
PERMANENT EROSION CONTROL
REPP (BLANKET) STAPLE PATTERN FOR SLOPES
STATE AID PROJ. NO. 002-628-008
SHEET NO. 18 OF 28 SHEETS



INSTALLATION GUIDELINES SILT FENCE TYPE TB
 MINIMUM WATER DEPTH: 1 FT.
 MAXIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER VELOCITY: 5 FT./SEC.

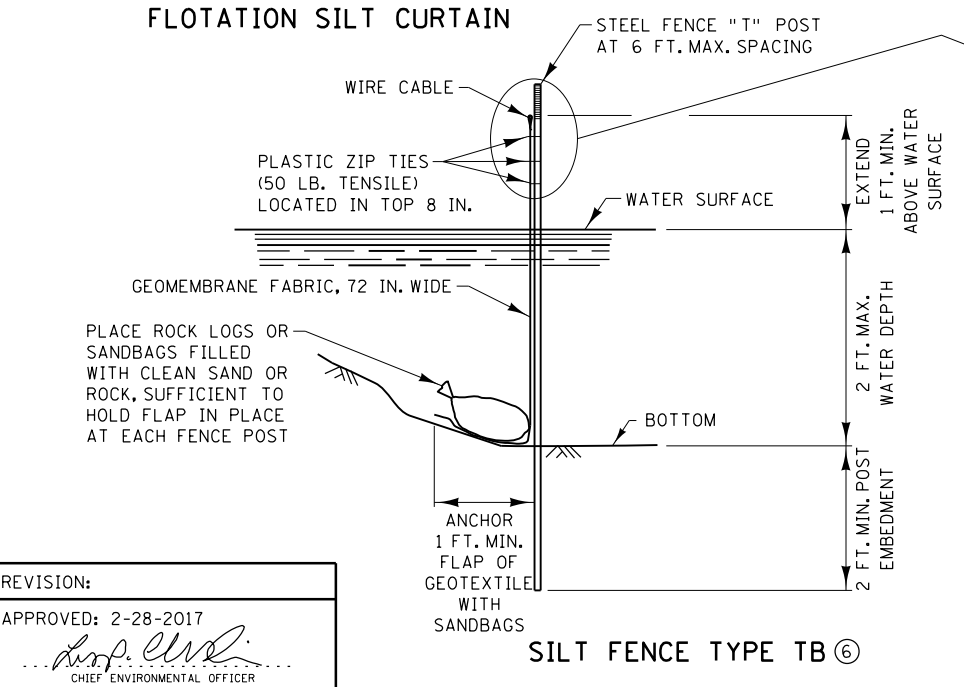
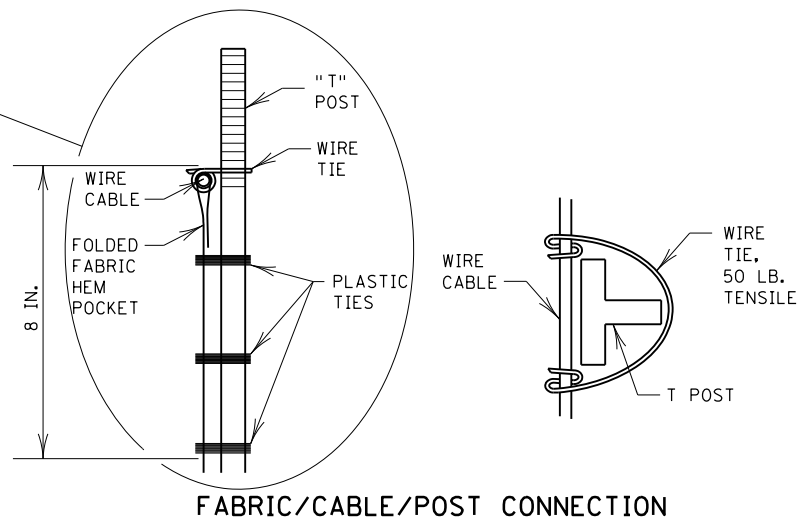
INSTALLATION GUIDELINES FLOTATION SILT CURTAIN TYPE: STILL WATER ④
 MINIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER DEPTH: 10 FT.
 MAXIMUM WATER VELOCITY: 2 FT./SEC.
 MAXIMUM WAVE HEIGHT: 1 FT

INSTALLATION GUIDELINES FLOTATION SILT CURTAIN TYPE: MOVING WATER ④
 MINIMUM WATER DEPTH: 3 FT.
 MAXIMUM WATER DEPTH: 10 FT.
 MAXIMUM WATER VELOCITY: 5 FT./SEC.
 MAXIMUM WAVE HEIGHT: 2 FT.



NOTES:

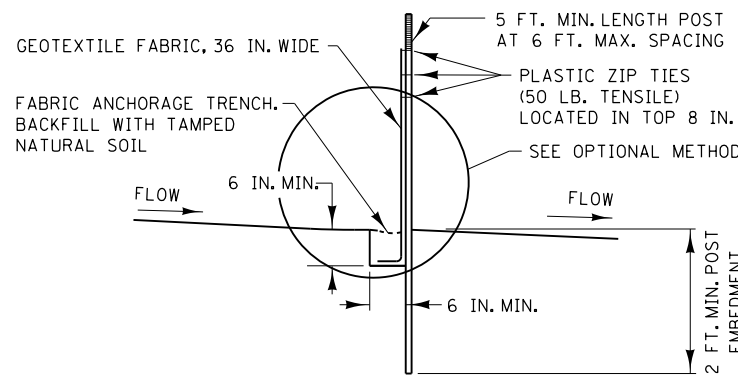
- SEE SPECS. 2573, 3886, 3887 & 3893.
- ① FOR ANCHOR SPACING AND WEIGHT REQUIREMENTS, SEE SPEC. 2573.
- ② IN AREAS WHERE THE PLAN CALLS FOR RIPRAP AT A BRIDGE, CULVERT, OR SLOPE, A TEMPORARY ROCK BERM CONSTRUCTED FROM THE RIPRAP CAN BE USED TO PROVIDE ADDITIONAL PROTECTION. WHEN THE WORK IS COMPLETE THE RIPRAP CAN THEN BE MOVED TO THE PERMANENT LOCATION INDICATED IN THE PLANS. THE TEMPORARY ROCK BERM IS INCIDENTAL.
- ③ ON U.S. COAST GUARD OR OTHER MOTORIZED WATERWAYS, BUOYS ARE REQUIRED TO MARK THE ENDS AND SPECIAL AREAS FOR VISIBILITY. PLACE BUOYS AS REQUIRED FOR NAVIGATIONAL PURPOSES.
- ④ MINIMUM WATER DEPTH APPLIES TO THE DEEPEST POINT ALONG THE FLOTATION SILT CURTAIN OR SILT FENCE TYPE TB FOR DETERMINING APPLICABILITY OF FLOTATION SILT CURTAIN OR SILT FENCE TYPE TB.
- ⑤ SILT CURTAIN SHOULD BE REMOVED WHEN THE AREA CONTRIBUTING DIRECT RUNOFF HAS BEEN TEMPORARILY OR PERMANENTLY STABILIZED. SILT CURTAIN SHOULD ALSO BE REMOVED BEFORE WINTER IF ICE UP OR ICE FLOW IS ANTICIPATED.
- ⑥ EMBED POST INTO BOTTOM A MINIMUM OF 40% OF THE WATER DEPTH (INCLUDING WAVE HEIGHT), BUT IN NO CASE SHALL EMBEDMENT BE LESS THAN 2 FEET.
- ⑦ ANCHOR FLOAT MUST BE CONNECTED SECURELY TO SLEEVE WITH A MINIMUM TENSILE STRENGTH OF 100 LBS. CONNECTION METHOD MUST ALLOW FOR SLEEVE TO MOVE FREELY ON POST.
- ⑧ PROVIDE SUFFICIENT NUMBER OF POST ANCHORS TO MAINTAIN SILT CURTAIN POSITION.



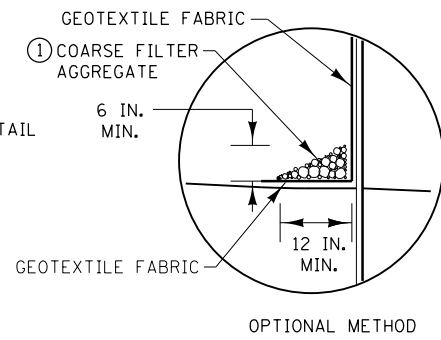
REVISION:
 APPROVED: 2-28-2017
 [Signature]
 CHIEF ENVIRONMENTAL OFFICER

	STANDARD PLAN 5-297.405	1 OF 8	TEMPORARY SEDIMENT CONTROL SILT CURTAIN OR SILT FENCE TYPE TB
	APPROVED: 2-28-2017 REVISED:		
STATE AID PROJ. NO. 002-628-008		SHEET NO. 19 OF 28 SHEETS	

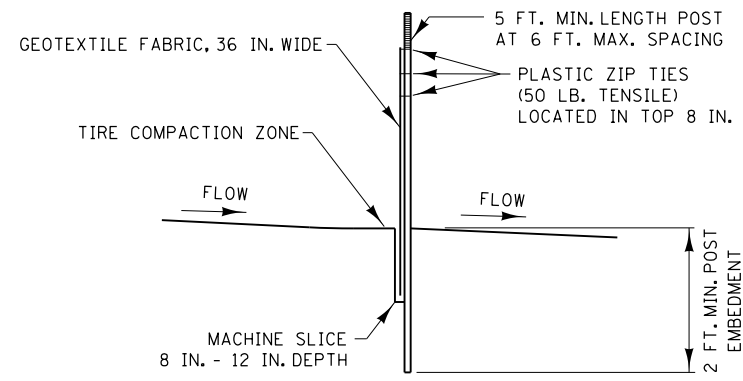
Thomas.Doherty pdf-B and W.pltctfg 2/5/2024 10:40:34 AM H:\AKCO\014124006\CAD\MS\bridge\final\box extended for future trail\cbr-02j56_soi004.dgn



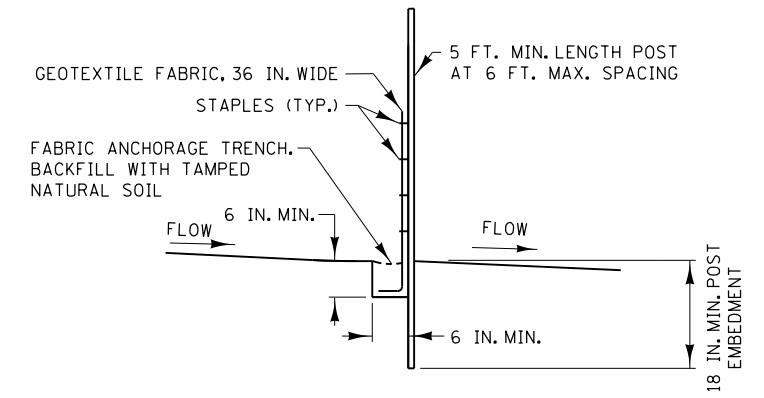
**SILT FENCE TYPE HI ②
(HAND INSTALLED)**



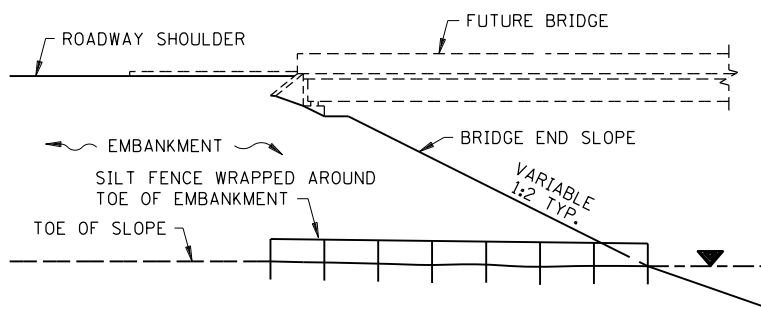
OPTIONAL METHOD



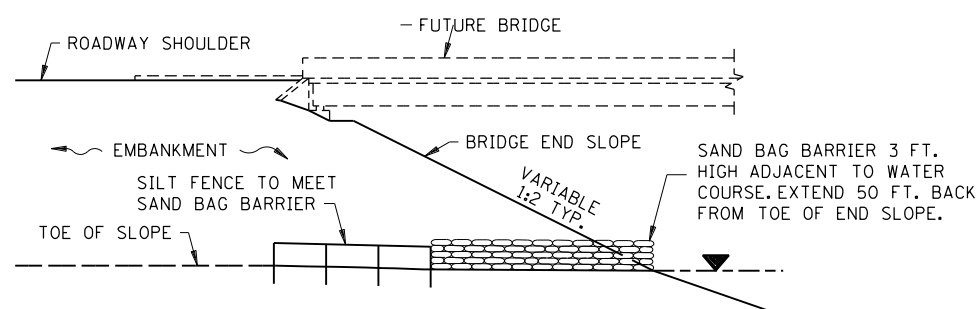
**SILT FENCE TYPE MS ②
(MACHINE SLICED)**



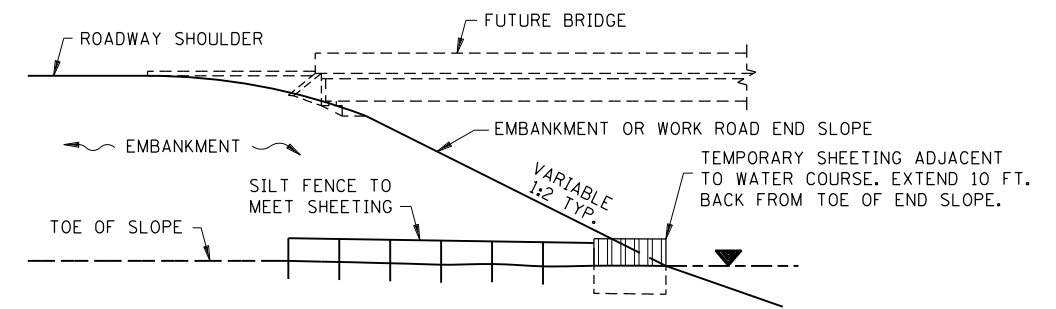
**SILT FENCE TYPE PA ③
(PREASSEMBLED)**



SILT FENCE ONLY ④

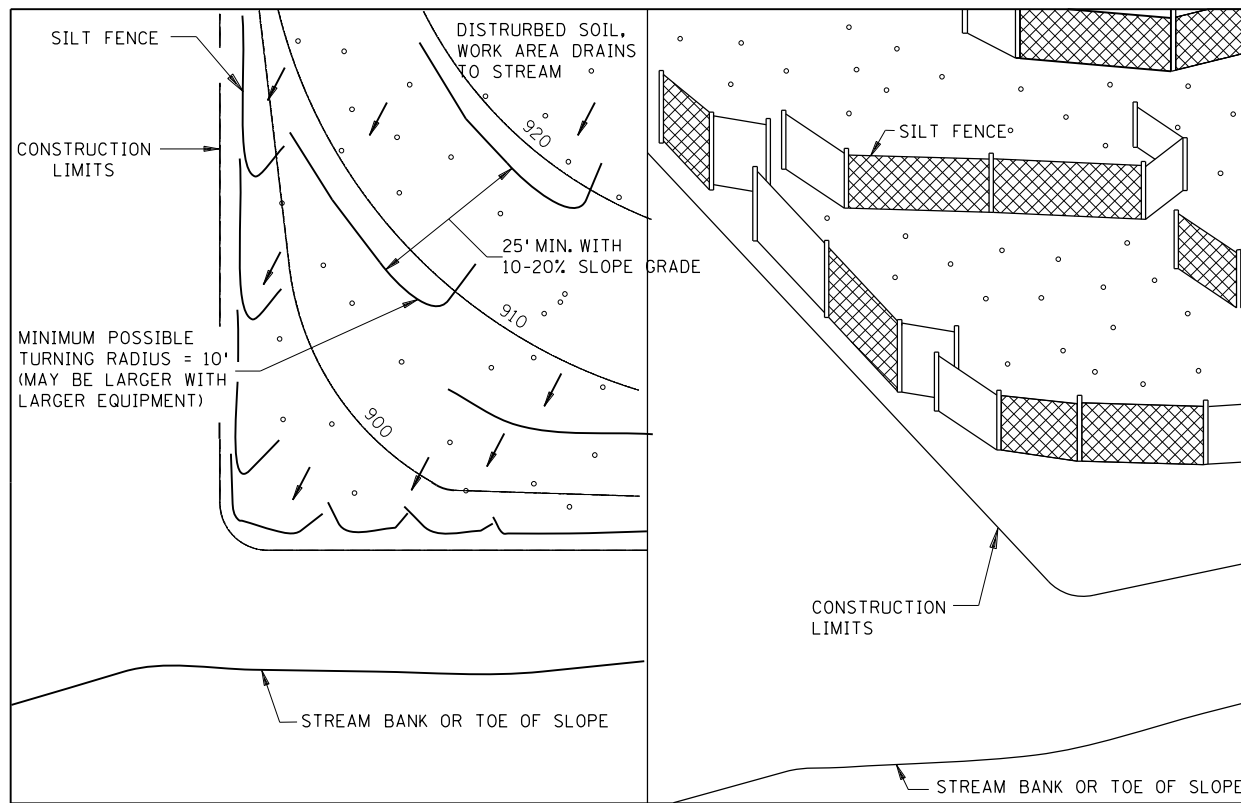


SILT FENCE WITH SAND BAGS ⑤



SILT FENCE WITH SHEETING ⑥

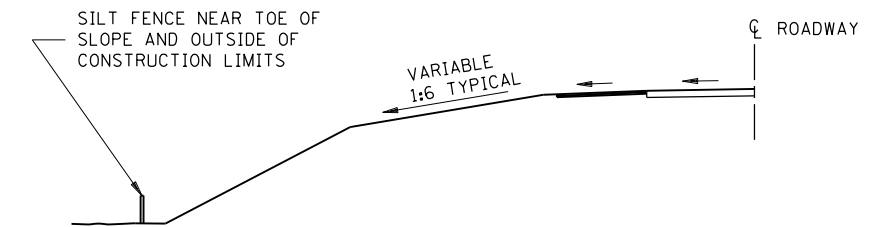
INSTALLATION AT BRIDGE EMBANKMENT ADJACENT TO WATER



PLAN VIEW

PERSPECTIVE VIEW

J-HOOK INSTALLATION



LOCATION AT TOE OF ROADWAY EMBANKMENT

NOTES:

- SEE SPECS. 2573, 3149 & 3886.
- ① COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
- ② TO PROTECT AREAS FROM SHEET FLOW, MAXIMUM CONTRIBUTING AREA: 1 ACRE.
- ③ TO PROTECT AREAS FROM SHEET FLOW, MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.
- ④ WATER COURSE FLOW VELOCITY: STANDING. CONTRIBUTING SLOPE AREA: 1/2 ACRE.
- ⑤ WATER COURSE FLOW VELOCITY: 1 TO 7 FT./SEC. CONTRIBUTING SLOPE AREA: 1 ACRE.
- ⑥ WATER COURSE FLOW VELOCITY: 8 TO 15 FT./SEC. CONTRIBUTING SLOPE AREA: 3 ACRES.

Thomas.Doherty pdf-B and W.plt.ctg
 2/5/2024 10:40:35 AM
 H:\AKCO\014124006\CAD\MS\bridge\final\box extended for future trail\cbr-02j56_soi1005.dgn
 bmi.tbi

REVISION:
 APPROVED: 2-28-2017

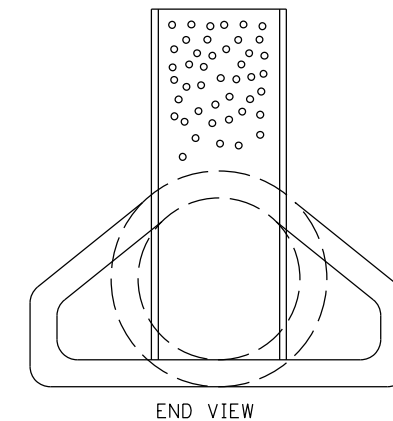
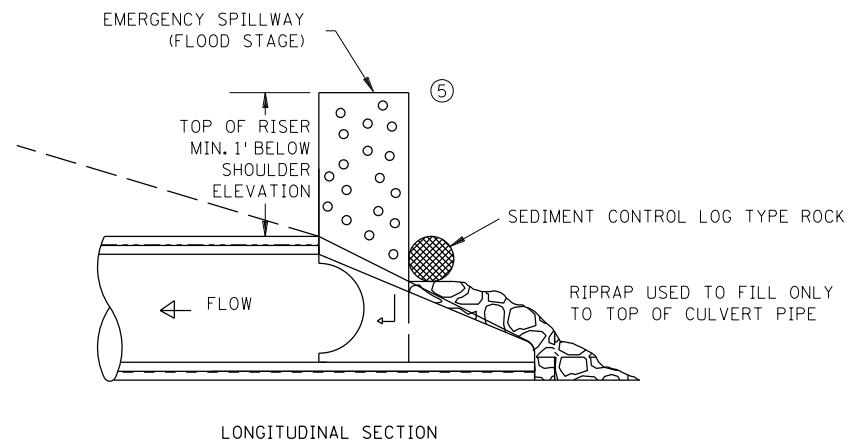
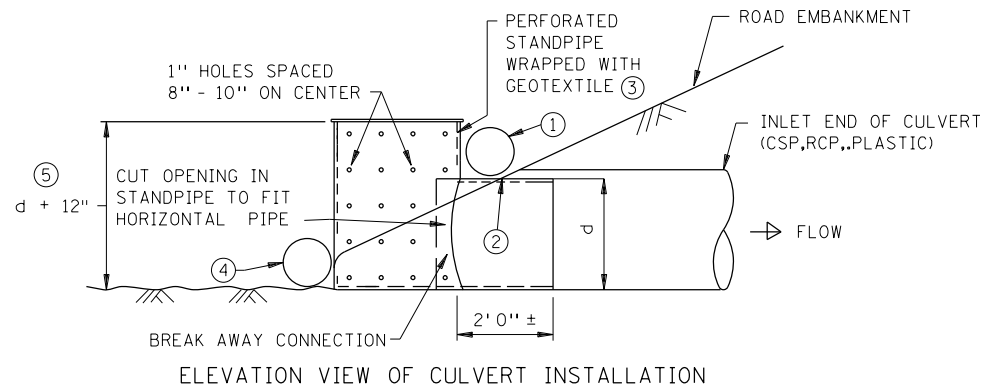
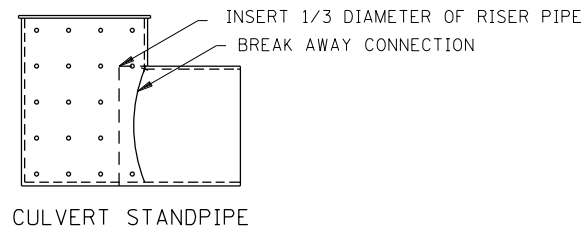
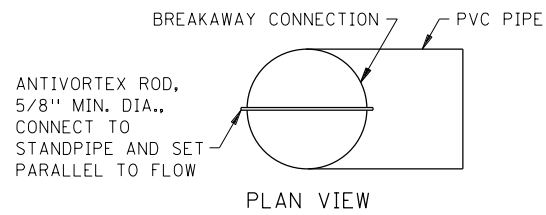
 CHIEF ENVIRONMENTAL OFFICER

DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.405 6 OF 8
 APPROVED: 2-28-2017
 REVISED:

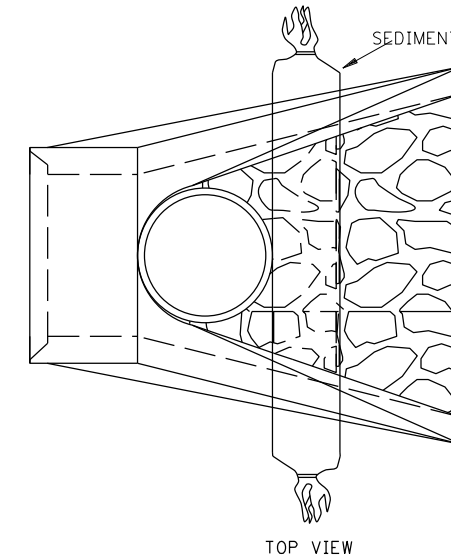
 STATE DESIGN ENGINEER

TEMPORARY SEDIMENT CONTROL
 SILT FENCE
 STATE AID PROJ. NO. 002-628-008
 SHEET NO. 20 OF 28 SHEETS



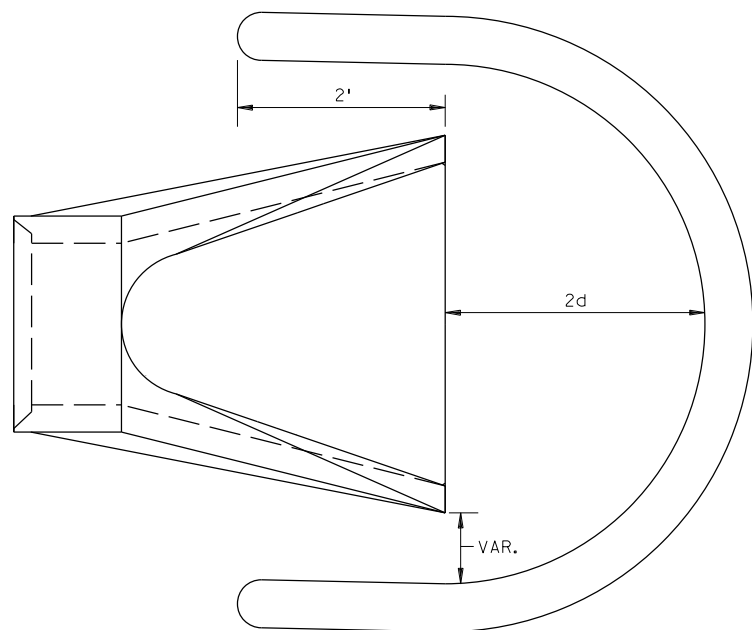
CULVERT STANDPIPE INSERT (D-RISER)

d= CULVERT SIZE: 12" - 36"



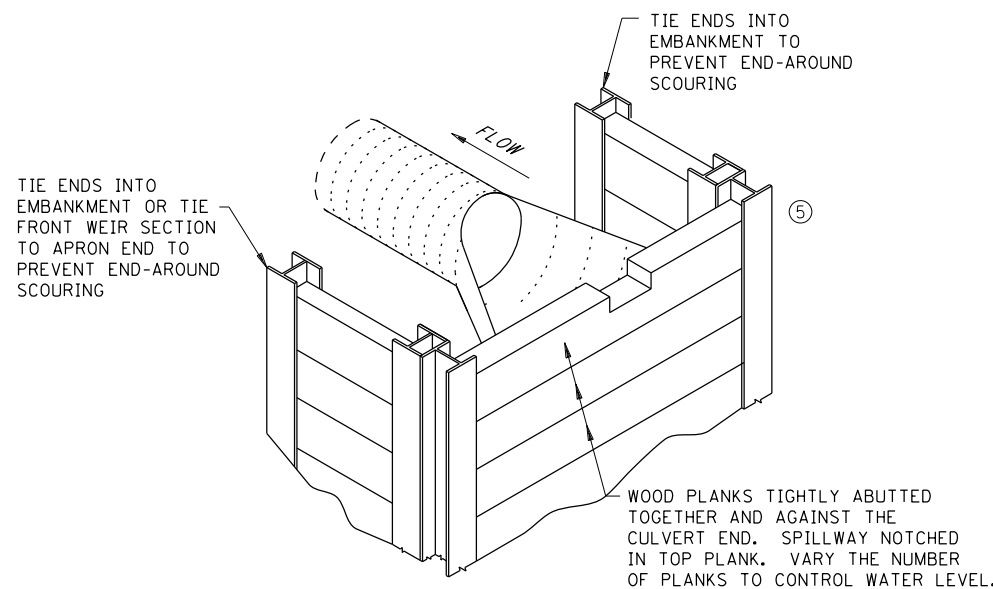
CULVERT STANDPIPE INSERT (D-RISER)

NOTE: SEDIMENT CONTROL LOG TYPE ROCK MAY BE WRAPPED AROUND RISER



**SEDIMENT CONTROL LOG WEIR
(COMPOST, WOOD CHIP, OR ROCK)**

d = CULVERT SIZE: 12" - 36"



WOOD PLANK WEIR

NOTES:

- SEE SPECS. 2573, 3891 & 3893.
- FOR USE WHEN TEMPORARY PONDING IS NEEDED IN DITCH SECTIONS FOR SEDIMENT CONTROL.
- MANUFACTURED ALTERNATIVES LISTED ON MnDOT'S APPROVED PRODUCTS LIST MAY BE SUBSTITUTED AT NO ADDITIONAL COST.
- ① ROCK LOG OR SANDBAG TO HOLD STANDPIPE AND ACT AS A SEAL BETWEEN RISER PIPE AND CULVERT.
- ② PLACE CULVERT APRON AND SLIDE TEMPORARY STANDPIPE INTO CSP OR RCP CULVERT.
- ③ ALL GEOTEXTILE USED FOR CULVERT PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886 FOR MACHINE SLICED.
- ④ ROCK LOG OR RIP RAP TO HOLD STANDPIPE AND ACT AS A FILTER BETWEEN RISER PIPE AND CULVERT.
- ⑤ HEIGHT OVERFLOW NOT TO CAUSE FLOODING OF ROAD OR ADJACENT PROPERTIES.

bmi.tbl
H:\AKCO\014124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_soi006.dgn
Thomas.Doherty pdf-B and W.pltcfq
2/5/2024 10:40:36 AM

REVISION:
APPROVED: 2-28-2017 <i>[Signature]</i> CHIEF ENVIRONMENTAL OFFICER



STANDARD PLAN 5-297.405

8 OF 8

[Signature]
STATE DESIGN ENGINEER

APPROVED: 2-28-2017
REVISED:

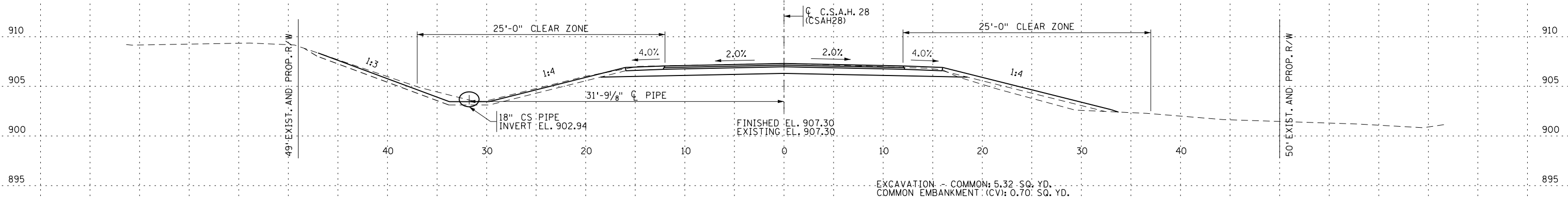
STATE AID PROJ. NO. 002-628-008

**TEMPORARY SEDIMENT CONTROL
CULVERT END CONTROLS**

SHEET NO. 21 OF 28 SHEETS

NOTES:
 ALL UTILITIES SHOWN ON CROSS SECTIONS ARE INPLACE.
 UTILITY ELEVATIONS AND LOCATIONS ARE APPROXIMATE.
 SOME UTILITIES MAY HAVE BEEN REMOVED OR ABANDONED, SOME UTILITIES MAY HAVE BEEN RECENTLY CONSTRUCTED AND MAY NOT BE SHOWN.

BRIDGE NOTE:
 SEE BRIDGE SURVEY SHEETS FOR BRIDGE CROSS SECTIONS AND ALIGNMENT DATA.



CROSS SECTION STA. 0+39.24

EXCAVATION - COMMON: 5.32 SQ. YD.
 COMMON EMBANKMENT (CV): 0.70 SQ. YD.

H:\XCO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_xsl1.dgn
 Thomas.Doherty pdf-B and W.pltctg
 bmi.tbl
 2/5/2024 10:40:37 AM

NO.	DATE	BY	CHK.	REVISIONS

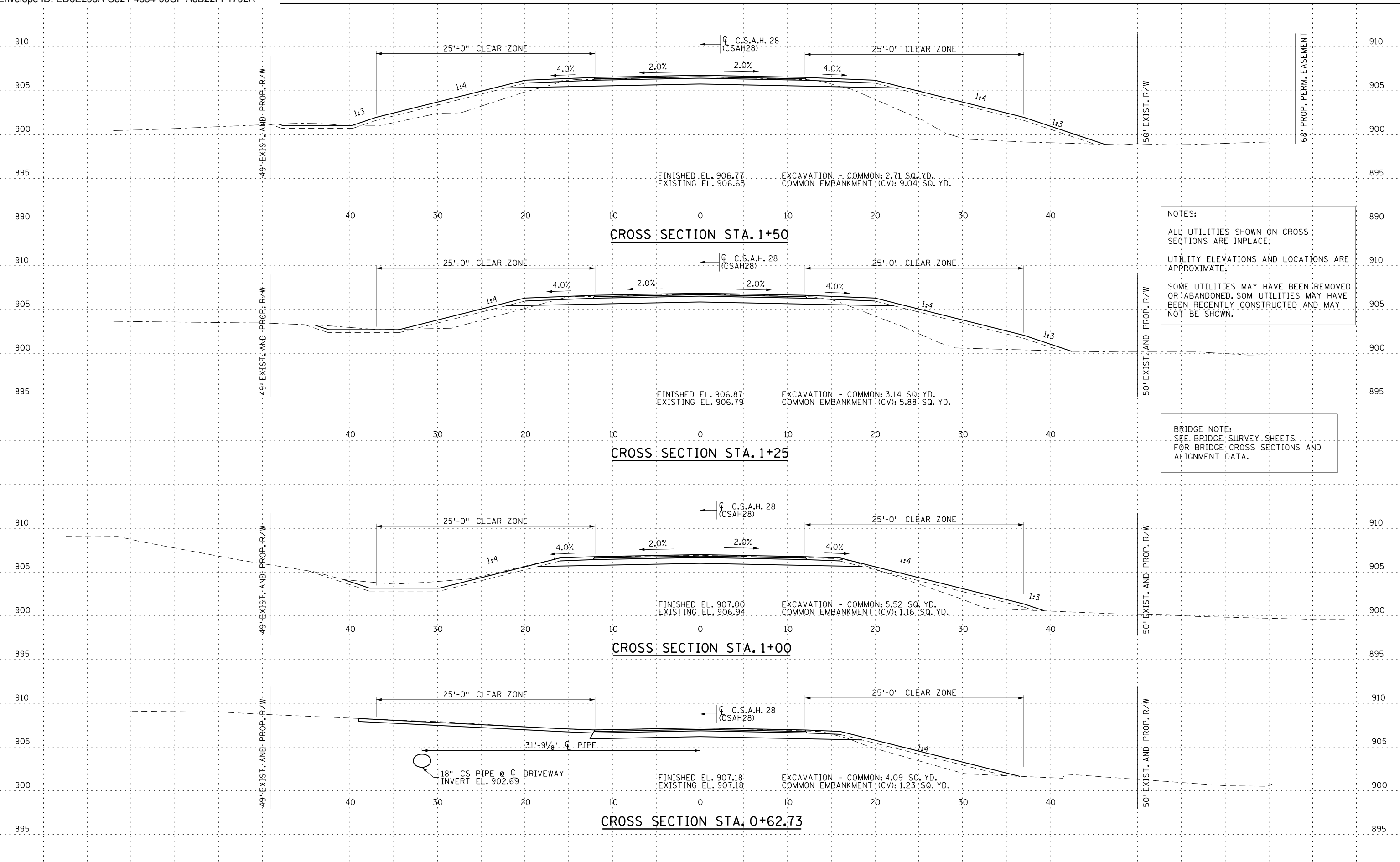


7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

DESIGNED TJD		DRAWN JMR		APPROVED
CHECKED RRE		CHECK RRE		
S.A.P. 002-628-008				
ROADWAY CROSS SECTIONS				
SHEET NO. 22 OF 28 SHEETS				

BRIDGE NO.
 02J56

H:\XCO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_xsl.dgn
 Thomas.Doherty pdf-B and W.pltctg
 bmi.tbi
 2/5/2024 10:40:38 AM



NOTES:
 ALL UTILITIES SHOWN ON CROSS SECTIONS ARE INPLACE;
 UTILITY ELEVATIONS AND LOCATIONS ARE APPROXIMATE.
 SOME UTILITIES MAY HAVE BEEN REMOVED OR ABANDONED. SOME UTILITIES MAY HAVE BEEN RECENTLY CONSTRUCTED AND MAY NOT BE SHOWN.

BRIDGE NOTE:
 SEE BRIDGE SURVEY SHEETS FOR BRIDGE CROSS SECTIONS AND ALIGNMENT DATA.

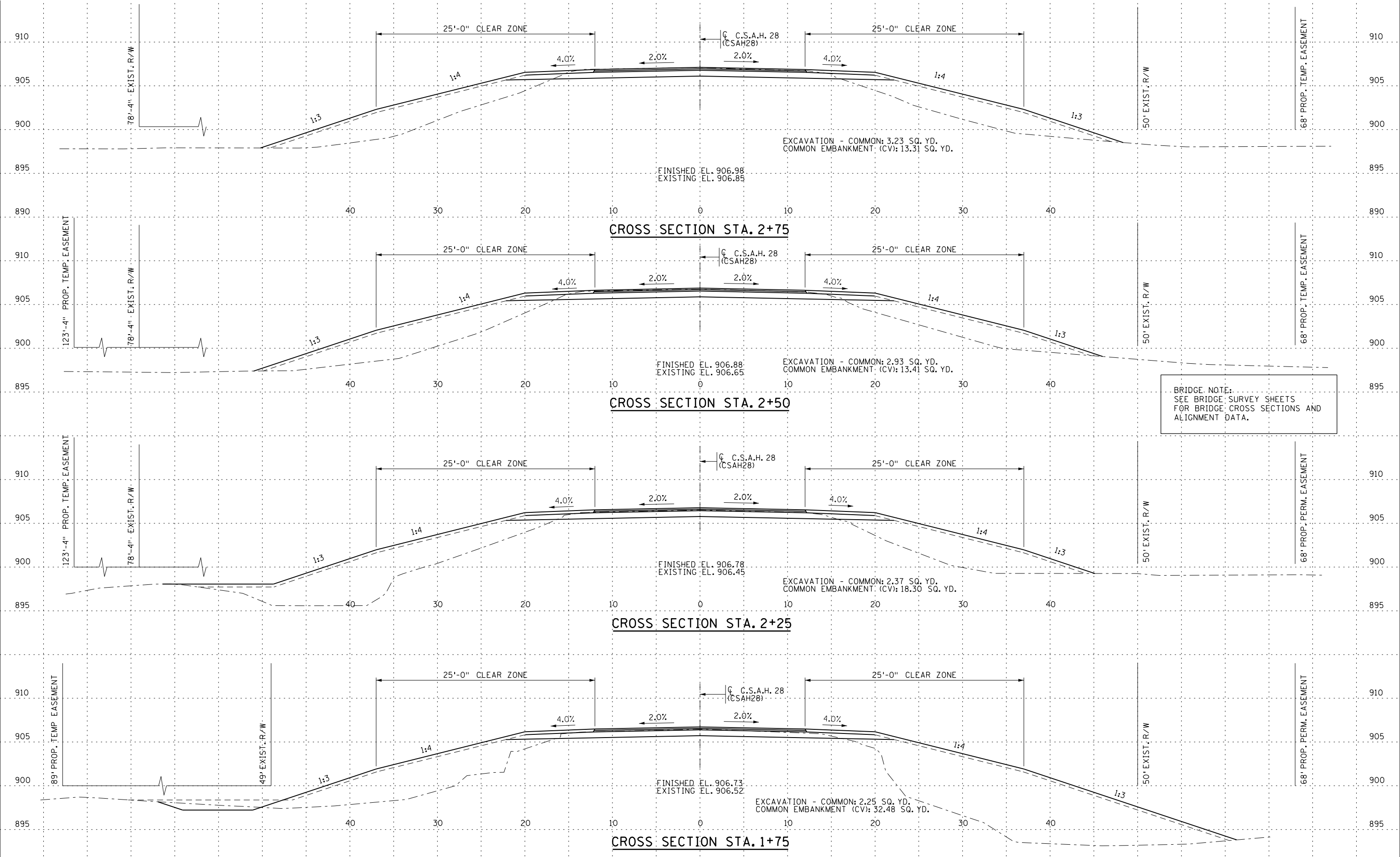
NO.	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

DESIGNED TJD	DRAWN JMR	APPROVED	BRIDGE NO. 02J56
CHECKED RRE	CHECK RRE		
S.A.P. 002-628-008			
SHEET NO. 23 OF 28 SHEETS			

ROADWAY CROSS SECTIONS



H:\XCO\01242006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_xs2.dgn
 Thomas.Doherty pdf-B and W.pltctg
 bmi.tbl
 2/5/2024 10:40:39 AM

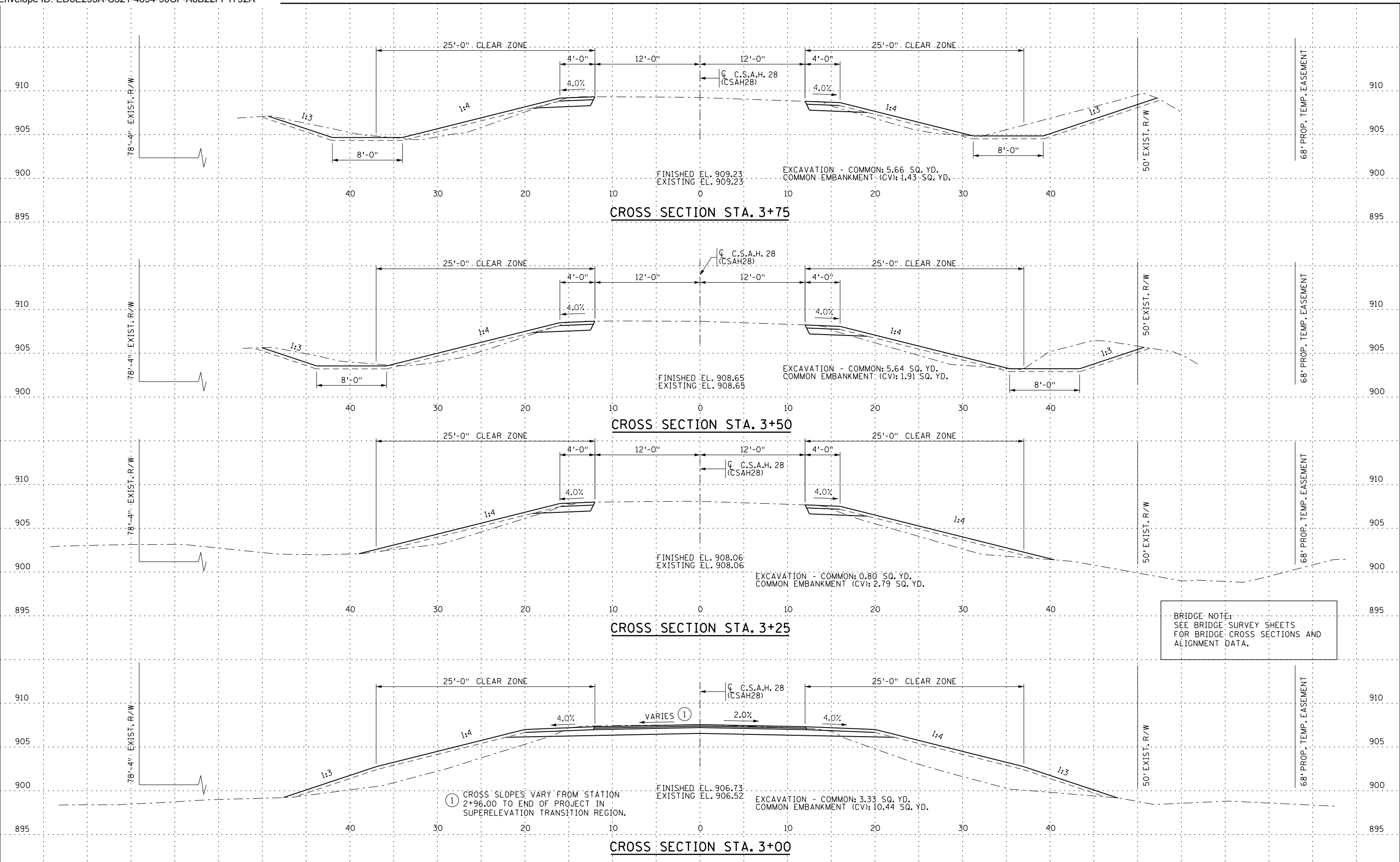
NO.	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

DESIGNED TJD		DRAWN JMR		APPROVED
CHECKED RRE		CHECK RRE		
S.A.P. 002-628-008				
ROADWAY CROSS SECTIONS				BRIDGE NO.
SHEET NO. 24 OF 28 SHEETS				02J56

H:\XACO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_xs3.dgn
 Thomas, Doherty pdf-B and W\plctfg
 bmi.tbl
 2/5/2024 10:40:40 AM



NO.	DATE	BY	CHK.	REVISIONS

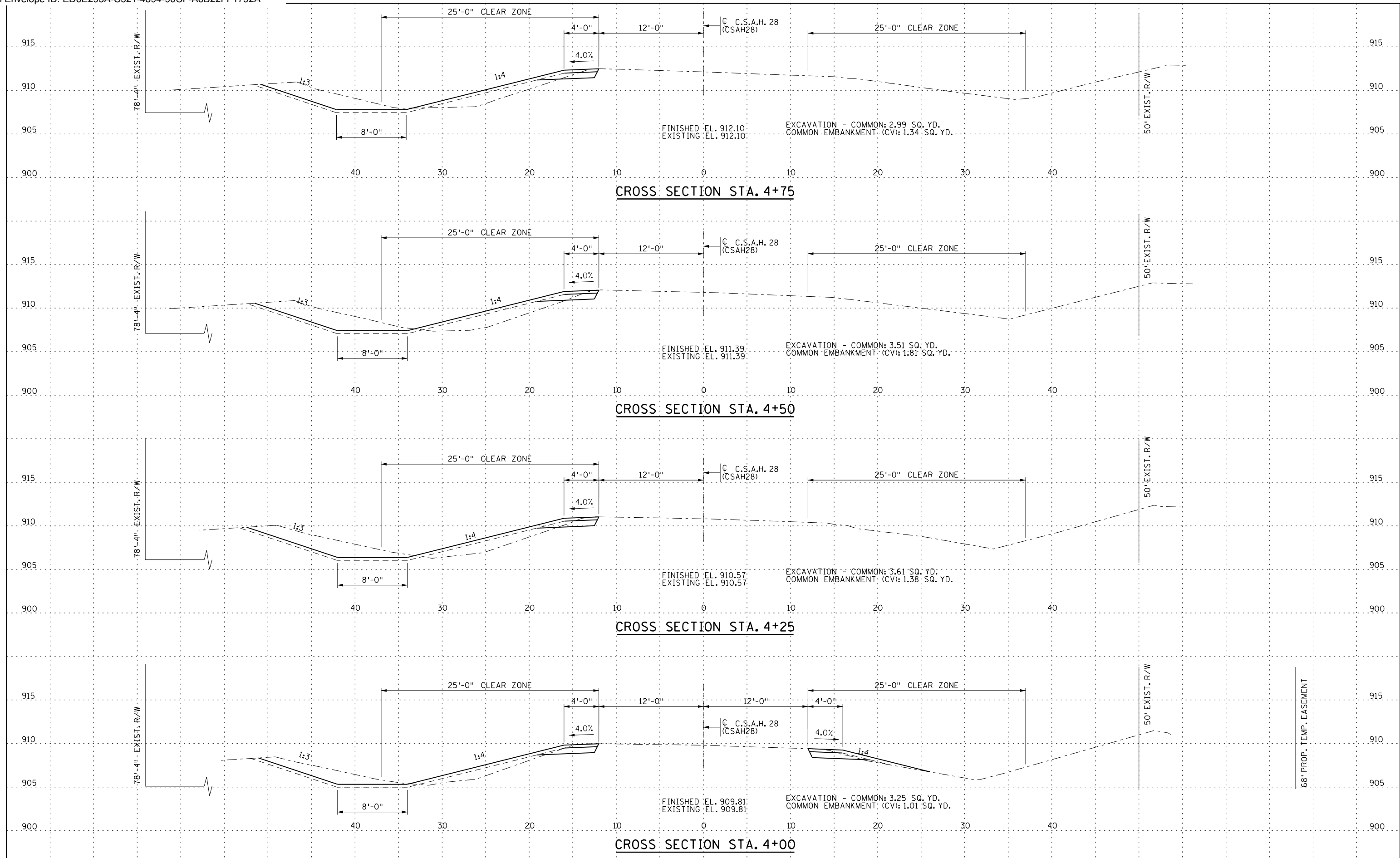


7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

DESIGNED TJD	DRAWN JMR	APPROVED	BRIDGE NO.
CHECKED RRE	CHECK RRE		
S.A.P. 002-628-008			
SHEET NO. 25 OF 28 SHEETS			

ROADWAY CROSS SECTIONS

H:\AXCO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_xs4.dgn
 Thomas.Doherty pdf-B and W\p1ctfg
 bmi.tbl
 2/5/2024 10:40:41 AM

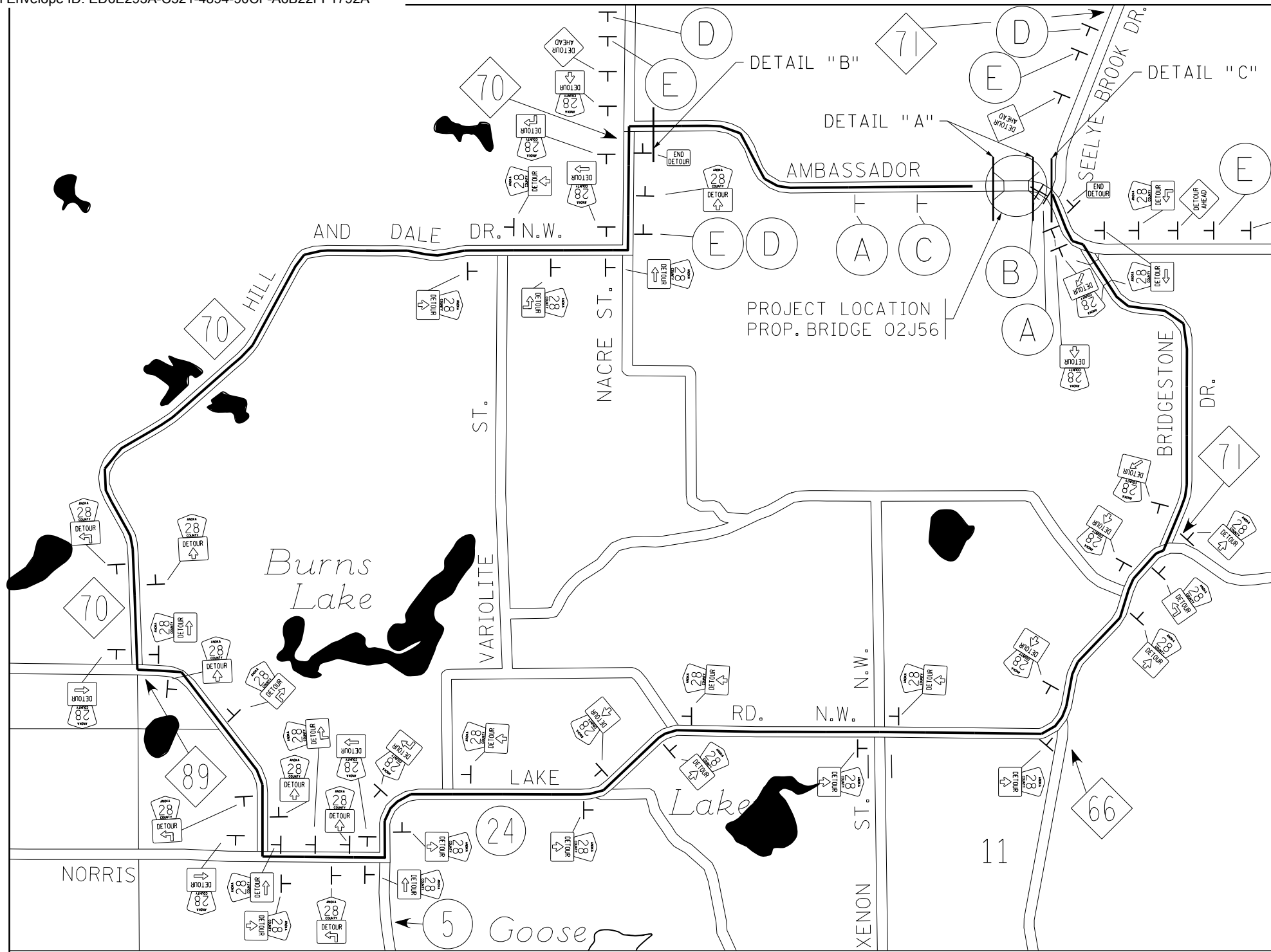


NO.	DATE	BY	CHK.	REVISIONS



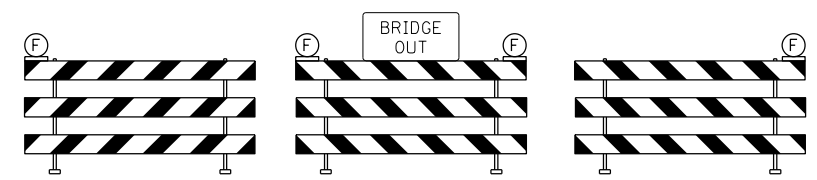
7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

DESIGNED TJD		DRAWN JMR		APPROVED
CHECKED RRE		CHECK RRE		
S.A.P. 002-628-008				
ROADWAY CROSS SECTIONS				BRIDGE NO.
SHEET NO. 26 OF 28 SHEETS				02J56

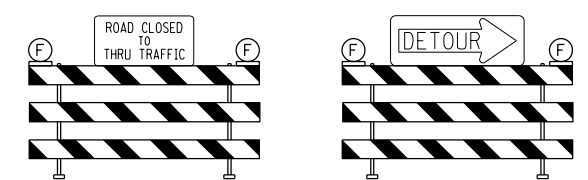


NOTES:

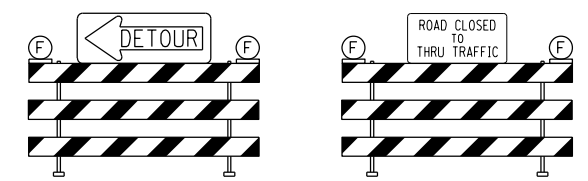
- EXISTING ACCESS TO RESIDENCES SHALL BE MAINTAINED THROUGHOUT PROJECT DURATION.
- ALL COSTS INCURRED FOR MATERIALS, INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES AS SHOWN ON THIS SHEET AND RELATED WORK DURING CONSTRUCTION SHALL BE INCLUDED IN PRICE BID FOR ITEM "TRAFFIC CONTROL".
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
- BARRICADE PLACEMENT TO BE DETERMINED IN THE FIELD SO AS NOT TO OBSTRUCT VISION TO OR FROM ROADWAY ENTRANCES.
- EXACT LOCATION OF TRAFFIC CONTROL DEVICES TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
- THE CONTRACTOR SHALL REMOVE, SALVAGE OR COVER & RESTORE AS APPROPRIATE, ALL EXISTING SIGNING THAT CONFLICTS WITH THIS TRAFFIC CONTROL PLAN TO THE SATISFACTION OF THE ENGINEER.
- ALL INSTALLATIONS REQUIRING POSTS SHALL BE A "U" CHANNEL TYPE. MINIMUM WEIGHT PER FOOT - 3.00 LBS.
- ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.
- THE USE OF TEMPORARY ORANGE CONSTRUCTION FENCING MAY BE REQUIRED BY THE ENGINEER TO COMPLETELY CLOSE OFF ANY SPECIFIC WORK AREA.



DETAIL "A"



DETAIL "B"



DETAIL "C"

SIGNING PLAN

 BRIDGE CLOSED AHEAD 500 FEET W20-3M SIGN (A)	 BRIDGE CLOSED BEGINNING MONTH DY G20-X1 SIGN (C)	 ANKA COUNTY 28 BRIDGE CLOSED CR 70/NACRE ST TO SEELYE BROOK DR BEGINS G20-X2 SIGN (B) INSTALL 2 WEEKS BEFORE CLOSING.	 ROAD WORK AHEAD W20-1 SIGN (D)	 ROAD CLOSED AHEAD W20-3 SIGN (E)	 BRIDGE OUT R11-4 SIGN (1)	 ROAD CLOSED TO THRU TRAFFIC R11-4 SIGN (2)
--	---	---	---------------------------------------	---	----------------------------------	---

H:\AKCO\01424006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_traffic001.dgn
 Thomas.Doherty pdf-B and W.pltcfgr
 2/5/2024 10:40:42 AM
 bmi.tbi

NO	DATE	BY	CHK.	REVISIONS





7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com


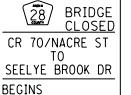
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

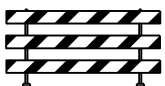
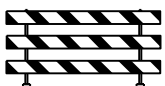
RYAN R. EVANS
 LIC. NO. 53920 DATE 02/02/2024





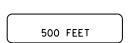
TRAFFIC CONTROL PLAN SHEET 1 OF 2		BRIDGE NO. 02J56
DESIGNED TJD	DRAWN TJD	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. NO. 002-628-008		
SHEET NO. 27 OF 28 SHEETS		






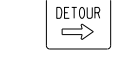




TRAFFIC CONTROL TABULATION SHEET

"R" SERIES			
SIGN	SIGN NO.	COLOR	SIZE (INCHES)
	R11-4	BLACK ON WHITE	48 x 30
	R11-4	BLACK ON WHITE	48 x 30

"G" SERIES			
SIGN	SIGN NO.	COLOR	SIZE (INCHES)
	G20-X1	BLACK ON ORANGE	72 x 60
	G20-X2	BLACK ON ORANGE	72 x 60

"T" SERIES			
SIGN	SIGN NO.	COLOR	SIZE (INCHES)
	T3L	ORANGE ON WHITE	(6' MINIMUM)
	T3R	ORANGE ON WHITE	(6' MINIMUM)

"W" SERIES			
SIGN	SIGN NO.	COLOR	SIZE (INCHES)
	W20-1	BLACK ON ORANGE	36 x 36
	W20-2	BLACK ON ORANGE	36 x 36
	W20-3	BLACK ON ORANGE	36 x 36
	W20-3M	BLACK ON ORANGE	36 x 36
	W16-8P	BLACK ON YELLOW	XX x 8

"M" SERIES			
SIGN	SIGN NO.	COLOR	SIZE (INCHES)
	M1-X4	BLACK ON WHITE	24 x 24
	M4-10R	BLACK ON ORANGE	48 x 18
	M4-10L	BLACK ON ORANGE	48 x 18
	M4-8A	BLACK ON ORANGE	24 x 18
	M4-9ML	BLACK ON ORANGE	30 x 24
	M4-9MR	BLACK ON ORANGE	30 x 24
	M4-9MT	BLACK ON ORANGE	30 x 24
	M4-9ML90	BLACK ON ORANGE	30 x 24
	M4-9MR90	BLACK ON ORANGE	30 x 24
	M4-9MR45	BLACK ON ORANGE	30 x 24

H:\XACO\0124006\CAD\MS\bridge\final\box extended for future trail\cbr02j56_traffic002.dgn
 Thomas.Doherty pdf-B and W.pltcfq
 2/5/2024 10:40:42 AM
 bmi.tbi

NO.	DATE	BY	CHK.	REVISIONS



7533 SUNWOOD DRIVE N.W.
 RAMSEY, MINNESOTA 55303
 Phone: (763) 433-2851
 Email: Ramsey@bolton-menk.com
 www.bolton-menk.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 RYAN R. EVANS
 LIC. NO. 53920 DATE 02/02/2024

TRAFFIC CONTROL PLAN
 SHEET 2 OF 2

DESIGNED TJD	DRAWN TJD	APPROVED
CHECKED RRE	CHECK RRE	
S.A.P. NO. 002-628-008		
SHEET NO. 28 OF 28 SHEETS		

BRIDGE NO.
 02J56



Anoka County

TRANSPORTATION DIVISION

Respectful, Innovative, Fiscally Responsible

Highway

Transit

Surveyor

GIS

Fleet

Joe MacPherson, P.E.
Chief Officer, Transportation, County Engineer

Jerry Auge, P.E.
Department Director, Assistant County Engineer

EXCAVATOR AND OPERATOR NOTICE

This notice is for all excavators and operators applying for permits involving excavations - your obligations to comply with Minnesota State Statutes 216D are attached to this notice.

This notice is a requirement of State Statute 216D.02; Notice to Excavators and Operators.

Our Passion Is Your Safe Way Home

1440 Bunker Lake Boulevard N.W. ▲ Andover, MN 55304-4005
Office: 763-324-3100 ▲ Fax: 763-324-3020 ▲ www.anokacounty.us/highway

Affirmative Action / Equal Opportunity Employer

216D.03 NOTIFICATION CENTER.

Subdivision 1. **Participation.** An operator shall participate in and share in the costs of one statewide notification center operated by a vendor selected under subdivision 2.

Subd. 2. **Establishment of notification center; rules.** (a) The notification center services must be provided by a nonprofit corporation approved in writing by the commissioner. The nonprofit corporation must be governed by a board of directors of up to 20 members, one of whom is the director of the Office of Pipeline Safety. The other board members must represent and be elected by operators, excavators, and other persons eligible to participate in the center. In deciding to approve a nonprofit corporation, the commissioner shall consider whether it meets the requirements of this paragraph and whether it demonstrates that it has the ability to contract for and implement the notification center service.

(b) The commissioner shall adopt rules:

(1) establishing a notification process and competitive bidding procedure for selecting a vendor to provide the notification service;

(2) governing the operating procedures and technology needed for a statewide notification center; and

(3) setting forth the method for assessing the cost of the service among operators.

(c) The commissioner shall select a vendor to provide the notification center service. The commissioner may advertise for bids as provided in section 16C.06, subdivisions 1 and 2, and base the selection of a vendor on best value as provided in section 16C.06, subdivision 6. The commissioner shall select and contract with the vendor to provide the notification center service, but all costs of the center must be paid by the operators. The commissioner may at any time appoint a task force to advise on the renewal of the contract or any other matter involving the center's operations.

(d) An operator may submit a bid and be selected to contract to provide the notification center service under paragraph (a) or (c). The commissioner shall annually review the services provided by the nonprofit corporation approved under paragraph (a) or the vendor selected under paragraph (c).

Subd. 3. **Cooperation with local government.** In establishing operating procedures and technology for the statewide notification center, the board of directors or the commissioner must work in cooperation with the League of Minnesota Cities, the Association of Minnesota Counties, and the Township Officers' Association. The purpose of this cooperation is to maximize the participation of local governmental units that issue permits for activities involving excavation to assure that excavators receive notice of and comply with the requirements of sections 216D.01 to 216D.07.

Subd. 4. **Notice to local government.** The notification center shall provide local governmental units with a master list, by county, of the operators in the county who are participants in the notification center, and the telephone number and mailing address of the notification center.

History: 1987 c 353 s 9; 1997 c 187 art 1 s 15; 1998 c 386 art 2 s 69

216D.04 EXCAVATION; LAND SURVEY.

Subdivision 1. **Notice required; contents.** (a) Except in an emergency, an excavator shall and a land surveyor may contact the notification center and provide notice at least 48 hours, excluding Saturdays, Sundays, and holidays and not more than 14 calendar days before beginning any excavation or boundary survey. An excavation or boundary survey begins, for purposes of this requirement, the first time excavation or a boundary survey occurs in an area that was not previously identified by the excavator or land surveyor in the notice.

(b) The notice may be oral or written, and must contain the following information:

- (1) the name of the individual providing the notice;
- (2) the precise location of the proposed area of excavation or survey;
- (3) the name, address, and telephone number of the individual or individual's company;
- (4) the field telephone number, if one is available;
- (5) the type and extent of the activity;
- (6) whether or not the discharge of explosives is anticipated;
- (7) the date and time when the excavation or survey is to commence; and
- (8) the estimated duration of the activity.

Subd. 1a. **Plans for excavation.** (a) Any person, prior to soliciting bids or entering into a contract for excavation, shall provide a proposed notice to the notification center to obtain from the affected operators of underground facilities the type, size, and general location of underground facilities. Affected operators shall provide the information within 15 working days. An operator who provides information to a person who is not a unit of government may indicate any portions of the information which are proprietary and may require the person to provide appropriate confidentiality protection. The information obtained from affected operators must be submitted on the final drawing used for the bid or contract and must depict the utility quality level of that information. This information must be updated not more than 90 days before completion of the final drawing used for the bid or contract.

(b) This subdivision does not apply to bids and contracts for:

- (1) routine maintenance of underground facilities or installation, maintenance, or repair of service lines;
- (2) excavation for operators of underground facilities performed on a unit of work or similar basis; or
- (3) excavation for home construction and projects by home owners.

(c) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preliminary design meetings during the design phase to communicate the project design and coordinate utility relocation. Affected facility operators shall attend these meetings or make other arrangements to provide information.

(d) A person required by this section to show existing underground facilities on its drawings shall conduct one or more preconstruction meetings to communicate the project design and coordinate utility relocation. Affected facility operators and contractors shall attend these meetings or make other arrangements to provide information.

(e) This subdivision does not affect the obligation to provide a notice of excavation as required under subdivision 1.

Subd. 2. Duties of notification center; regarding notice. The notification center shall assign an inquiry identification number to each notice and retain a record of all notices received for at least six years. The center shall immediately transmit the information contained in a notice to every operator that has an underground facility in the area of the proposed excavation or boundary survey.

Subd. 3. Locating underground facility; operator. (a) Prior to the excavation start time on the notice, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator and provide readily available information regarding the operator's abandoned and out-of-service underground facilities as shown on maps, drawings, diagrams, or other records used in the operator's normal course of business, without cost to the excavator. The excavator shall determine the precise location of the underground facility, without damage, before excavating within two feet of the marked location of the underground facility.

(b) Within 96 hours or the time specified in the notice, whichever is later, after receiving a notice for boundary survey from the notification center, excluding Saturdays, Sundays, and holidays, unless otherwise agreed to between the land surveyor and operator, an operator shall locate and mark or otherwise provide the approximate horizontal location of the underground facilities of the operator, without cost to the land surveyor.

(c) For the purpose of this section, the approximate horizontal location of the underground facilities is a strip of land two feet on either side of the underground facilities.

(d) Markers used to designate the approximate location of underground facilities must follow the current color code standard used by the American Public Works Association.

(e) If the operator cannot complete marking of the excavation or boundary survey area before the excavation or boundary survey start time stated in the notice, the operator shall promptly contact the excavator or land surveyor.

(f) After December 31, 1998, operators shall maintain maps, drawings, diagrams, or other records of any underground facility abandoned or out-of-service after December 31, 1998.

(g) An operator or other person providing information pursuant to this subdivision is not responsible to any person, for any costs, claims, or damages for information provided in good faith regarding abandoned, out-of-service, or private or customer-owned underground facilities.

Subd. 4. Locating underground facility; excavator or land surveyor. (a) The excavator or land surveyor shall determine the precise location of the underground facility, without damage, before excavating within two feet on either side of the marked location of the underground facility.

(b) If the excavator or land surveyor cancels the excavation or boundary survey, the excavator or land surveyor shall cancel the notice through the notification center.

(c) The notice is valid for 14 calendar days from the start time stated on the notice. If the activity will continue after the expiration time, then the person responsible for the activity shall serve an additional notice at least 48 hours, excluding Saturdays, Sundays, and holidays, before the expiration time of the original notice, unless the excavator makes arrangements with the operators affected to periodically verify or refresh the marks, in which case the notice is valid for six months from the start time stated on the notice.

(d) The excavator is responsible for reasonably protecting and preserving the marks until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe the marks are obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify or refresh the marks.

History: *1987 c 353 s 10; 1992 c 493 s 5; 1993 c 341 art 1 s 21; 1997 c 196 s 1; 1998 c 348 s 1-3; 2004 c 163 s 2-6*

216D.05 PRECAUTIONS TO AVOID DAMAGE.

An excavator shall:

- (1) plan the excavation to avoid damage to and minimize interference with underground facilities in and near the construction area;
- (2) use white markings for proposed excavations except where it can be shown that it is not practical;
- (3) maintain a clearance between an underground facility and the cutting edge or point of any mechanized equipment, considering the known limit of control of the cutting edge or point to avoid damage to the facility;
- (4) provide support for underground facilities in and near the construction area, including during backfill operations, to protect the facilities; and
- (5) conduct the excavation in a careful and prudent manner.

History: *1987 c 353 s 11; 1998 c 348 s 4; 2004 c 163 s 7*

216D.06 DAMAGE TO FACILITY.

Subdivision 1. **Notice; repair.** (a) If any damage occurs to an underground facility or its protective covering, the excavator shall notify the operator promptly. When the operator receives a damage notice, the operator shall promptly dispatch personnel to the damage area to investigate. If the damage results in the escape of any flammable, toxic, or corrosive gas or liquid or endangers life, health, or property, the excavator responsible shall immediately notify the operator and the 911 public safety answering point, as defined in section 403.02, subdivision 19, and take immediate action to protect the public and property. The excavator shall also attempt to minimize the hazard until arrival of the operator's personnel or until emergency responders have arrived and completed their assessment. The 911 public safety answering point shall maintain a response plan for notifications generated by this section.

(b) An excavator shall delay backfilling in the immediate area of the damaged underground facilities until the damage has been investigated by the operator, unless the operator authorizes otherwise. The repair of damage must be performed by the operator or by qualified personnel authorized by the operator.

(c) An excavator who knowingly damages an underground facility, and who does not notify the operator as soon as reasonably possible or who backfills in violation of paragraph (b), is guilty of a misdemeanor.

Subd. 2. **Cost reimbursement.** (a) If an excavator damages an underground facility, the excavator shall reimburse the operator for the cost of necessary repairs, and for a pipeline the cost of the product that was being carried in the pipeline and was lost as a direct result of the damage.

(b) Reimbursement is not required if the damage to the underground facility was caused by the sole negligence of the operator or the operator failed to comply with section 216D.04, subdivision 3.

Subd. 3. **Prima facie evidence of negligence.** It is prima facie evidence of the excavator's negligence in a civil court action if damage to the underground facilities of an operator resulted from excavation, and the excavator failed to give an excavation notice under section 216D.04 or provide support as required by section 216D.05.

History: 1987 c 353 s 12; 1999 c 43 s 1

216D.07 EFFECT ON LOCAL ORDINANCES.

(a) Sections 216D.01 to 216D.07 do not affect or impair local ordinances, charters, or other provisions of law requiring permits to be obtained before excavating.

(b) A person with a permit for excavation from the state or a public agency is subject to sections 216D.01 to 216D.07. The state or public agency that issued a permit for excavation is not liable for the actions of an excavator who fails to comply with sections 216D.01 to 216D.07.

History: *1987 c 353 s 13*

CHAPTER 7560
OFFICE OF PIPELINE SAFETY
EXCAVATION NOTICE SYSTEM

- 7560.0100 DEFINITIONS.
- 7560.0125 ABANDONED AND OUT-OF-SERVICE FACILITIES.
- 7560.0150 PUBLIC RIGHT-OF-WAY MAPPING AND INSTALLATION.
- 7560.0225 EXCAVATOR RESPONSIBILITIES REGARDING A LOCATE.
- 7560.0250 LOCATE STANDARDS.
- 7560.0300 OPERATOR PARTICIPATES AND SHARES COSTS.
- 7560.0325 EMERGENCY EXCAVATION NOTICES.
- 7560.0350 EXCAVATION NOTICE REQUESTING MEET.
- 7560.0375 LOCATING A SERVICE LATERAL.
- 7560.0400 CITATIONS.
- 7560.0500 RESPONSE OPTIONS.
- 7560.0600 DIRECTOR REVIEW.
- 7560.0700 CONSENT ORDER.
- 7560.0800 CIVIL PENALTIES.

7560.0100 DEFINITIONS.

Subpart 1. **Scope.** The terms used in this chapter have the meanings given them. Terms not defined in this part have the meanings given them in Minnesota Statutes, section 216D.01.

Subp. 1a. **Abandoned facility.** "Abandoned facility" means an underground facility that is no longer in service and is physically disconnected from a portion of the operating facility that is in use or still carries service. An abandoned facility has been deemed abandoned by the operator.

Subp. 2. **Director.** "Director" means the director of the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 3. **Good cause to believe.** "Good cause to believe" means grounds put forth in good faith that are not arbitrary, irrational, unreasonable, or irrelevant and that are based on at least one of the following sources:

- A. information from a person;
- B. facts supplied by the notification center defined in Minnesota Statutes, section 216D.01, subdivision 8;
- C. facts of which the director or an agent of the director has personal knowledge; and
- D. information provided by excavators or operators.

Subp. 4. **Locate.** "Locate" means an operator's markings of an underground facility.

Subp. 5. [Renumbered as subp 8]

Subp. 5a. [Renumbered as subp 9]

Subp. 6. [Renumbered as subp 11]

7560.0125 EXCAVATION NOTICE SYSTEM

2

Subp. 7. **Meet.** When used as a noun in this chapter, "meet" refers to a meeting at the site of proposed excavation requested at the time of notice by the excavator with all affected underground facility operators to further clarify the precise geographic location of excavation, schedule locating, propose future contacts, and share other information concerning the excavation and facilities.

Subp. 8. **Office.** "Office" means the Office of Pipeline Safety of the Minnesota Department of Public Safety.

Subp. 9. **Out-of-service facility.** "Out-of-service facility" means an underground facility that is no longer maintained and is not intended for future use, but has not been deemed abandoned. An out-of-service facility may still be connected to a portion of the operating facility that is in use or still carries service.

Subp. 10. **Public right-of-way.** "Public right-of-way" means the area on, below, or above a public roadway, highway, street, cartway, bicycle lane, and sidewalk in which a government unit has an interest, including other rights-of-way dedicated for travel purposes and utility easements of government units.

Subp. 11. **Remuneration.** "Remuneration" means direct or indirect compensation or consideration paid to the person or the person's agent, employer, employee, subcontractor, or contractor. A person who excavates as part of the person's duties as an employee, employer, agent, subcontractor, or contractor is considered to be acting for remuneration.

Subp. 12. **Service lateral.** "Service lateral" means an underground facility that is used to transmit, distribute, or furnish gas, electricity, communications, or water from a common source to an end-use customer. A service lateral is also an underground facility that is used in the removal of wastewater from a customer's premises.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448; 29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0125 ABANDONED AND OUT-OF-SERVICE FACILITIES.

Subpart 1. **Duty of operators to provide readily available information.** Operators shall provide readily available information, as shown on maps, drawings, diagrams, or other records used in the normal course of business, on the approximate location of abandoned and out-of-service facilities to an excavator by the excavation date and time noted on the excavation or location notice unless otherwise agreed between the excavator and the operator. An operator fulfills an obligation to provide information on these facilities by doing one or more of the following:

- A. locating and marking the approximate location of the facility according to the current color code standard used by the American Public Works Association, as required in Minnesota Statutes, section 216D.04, subdivision 3, with an abandoned or out-of-service facility identified by an uppercase A surrounded by a circle;
- B. providing informational flags at the area of proposed excavation;
- C. communicating information verbally; or
- D. providing copies of maps, diagrams, or records.

Subp. 2. **Duty to notify operator.** An excavator shall notify the operator:

A. before moving, removing, or otherwise altering a facility that is thought to be abandoned or out of service; or

B. if damage to the facility occurs, pursuant to Minnesota Statutes, section 216D.01, subdivision 2.

Subp. 3. **Verification of abandoned or out-of-service facility.** Upon receipt of notification by an excavator pursuant to subpart 2, an operator shall verify that an underground facility is abandoned or out of service, by either reference to installation records, testing, or other comparable standard of verification, before an excavator is allowed to move, remove, or otherwise alter an underground facility.

Subp. 4. **Liability.** An operator providing information pursuant to Minnesota Statutes, section 216D.04, subdivision 3, is not responsible to any person for any costs, claims, or damages for information provided in good faith regarding abandoned and out-of-service underground facilities.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*

History: *24 SR 448*

Published Electronically: *July 20, 2005*

7560.0150 PUBLIC RIGHT-OF-WAY MAPPING AND INSTALLATION.

Subpart 1. **Duty of operator to map.** After December 31, 2005, an operator shall maintain a map, a diagram, a drawing, or geospatial information regarding the location of its underground facility within a public right-of-way installed after that date.

Subp. 2. **Duty to install locating wire.** After December 31, 2005, an operator shall install a locating wire or have an equally effective means of marking the location of each nonconductive underground facility within a public right-of-way installed after that date. This requirement does not apply when making minor repairs to an existing nonconductive facility. As applied to this chapter, "minor repairs" means repairs to or partial replacement of portions of existing service laterals located within a public right-of-way for purposes of routine maintenance and upkeep.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0200 [Repealed, 24 SR 448]

Published Electronically: *July 20, 2005*

7560.0225 EXCAVATOR RESPONSIBILITIES REGARDING A LOCATE.

Subpart 1. [Repealed, 29 SR 1503]

Subp. 2. **Responsibility to protect and preserve.** The excavator is responsible for reasonably protecting and preserving a locate until no longer required for proper and safe excavation near the underground facility. If the excavator has reason to believe a locate is obliterated, obscured, missing, or incorrect, the excavator shall notify the facility operator or notification center in order to have an operator verify, refresh, or re-mark the locate.

7560.0250 EXCAVATION NOTICE SYSTEM

4

Subp. 3. **Use of locate.** A locate is valid for 14 days from the excavation commencement time stated on the excavation or location notice, unless the excavator has made previous arrangements with the operators affected to periodically verify, refresh, or re-mark the locate.

Statutory Authority: *MS s 14.06; 216D.08; 299J.04; 299F.60*

History: *24 SR 448; 29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0250 LOCATE STANDARDS.

Subpart 1. **Facility locate.** Unless otherwise agreed to between the excavator and operator, an operator shall locate an underground facility using stakes, flags, paint, or other suitable materials in varying combinations dependent upon the surface. The locate must be in sufficient detail to clearly identify the approximate route of the underground facility. The locate must also include:

- A. name, abbreviation, or logo of the operator when more than one operator listed on the notice uses the same color markings;
- B. width of the underground facility if it is greater than eight inches; and
- C. number of underground facilities if greater than one.

Subp. 2. **Operator duties in no conflict situation.** After December 31, 2005, an operator who receives notice and determines that an underground facility is not in conflict with the proposed excavation shall complete one or more of the following:

- A. mark the area "NO" followed by the operator's name, abbreviation, or logo in the color code of the underground facility not in conflict;
- B. place a clear plastic flag at the area that:
 - (1) states "N/C" or "NO CONFLICT" in lettering matching the color code of the underground facility that is not in conflict; and
 - (2) includes the operator's name, abbreviation, or logo, the date, a contact telephone number, and the ticket number; or
- C. contact the notification center through procedures required by the notification center and indicate that there are no underground facilities in conflict with the proposed excavation and that no markings or flags were left at the proposed excavation site.

Subp. 3. **Placement of flags or markings.** If using N/C (no conflict) flags or markings pursuant to subpart 2, an operator shall place the flags or markings in a location that can be readily observed by an excavator. When an area of proposed excavation is delineated by the use of white markings, an operator shall place the N/C flags or markings within, or as near as practicable to, the delineated area.

Subp. 4. **Duties of notification center.** After December 31, 2005, the notification center shall make the information received under subpart 2 available to the excavator before the start date and time on the notice. The notification center may fulfill this requirement by making the information accessible through one or more Internet addresses, by transmitting the information to a continuously working facsimile machine maintained by the excavator, or by other methodology developed by the notification center. The notification center shall make available the information received by operators pursuant to this section through

an electronic means. The notification center is not required by this subpart to contact an excavator verbally via telephone.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0300 OPERATOR PARTICIPATES AND SHARES COSTS.

An operator shall participate in and share the costs of the one call excavation notice system by:

- A. submitting the information required by the notification center to allow the center to notify the operator of excavation activity;
- B. updating the information provided to the notification center on a timely basis;
- C. installing and paying for equipment reasonably requested by the notification center to facilitate receipt of notice of excavation from the center;
- D. paying the costs charged by the notification center on a timely basis; and
- E. receiving and responding to excavation notices, including emergency notices, as required by Minnesota Statutes, chapter 216D.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*

History: *16 SR 135*

Published Electronically: *July 20, 2005*

7560.0325 EMERGENCY EXCAVATION NOTICES.

Subpart 1. **Duty of excavator to provide notice.** An excavator shall provide notice to the notification center before commencing an emergency excavation, unless subpart 2 applies. All emergency notices, regardless whether made prior to excavation, must be verbal or in a manner accepted by the notification center. In addition to the information required by the notification center, the notice must also contain:

- A. a description of the situation requiring the emergency excavation;
- B. the precise location of the proposed area of the emergency excavation;
- C. at least one continuously staffed telephone number where the excavator can be contacted by the operator throughout the emergency; and
- D. the excavation start date and time if the need for excavation is not immediate.

Subp. 2. **Excavating before notice.** If an emergency is such that providing notice or waiting for an operator would result in an undue risk to life, health, or significant loss of property, the excavator may excavate without providing prior notice or waiting for an operator to mark an underground facility. In this situation, the excavator shall provide notice as soon as practicable and take all reasonable precautions to avoid or minimize damage. Excavation prior to notice under this subpart does not relieve an excavator from any responsibility for damage to an underground facility pursuant to Minnesota Statutes, section 216D.06.

Subp. 3. **Emergency notice requesting immediate response.** Upon receiving an emergency excavation notice requesting an immediate response, an operator shall:

7560.0350 EXCAVATION NOTICE SYSTEM

6

A. attempt to contact the excavator within one hour at the telephone number provided in subpart 1, item C, to provide any information concerning facilities at or near the area of excavation including an anticipated response time; and

B. locate and mark the underground facility within three hours of notice unless:

- (1) otherwise agreed between the parties;
- (2) the operator notifies the excavator that not locating does not present an immediate danger to life or health, or a significant loss of property; or
- (3) there is an event or situation that cannot be reasonably anticipated or controlled by the operator.

Subp. 4. **Emergency notice requesting scheduled response.** Upon receiving an emergency excavation notice that does not require an immediate response, and before the scheduled excavation start date and time, an operator shall:

A. locate and mark the underground facility, unless otherwise agreed between the parties; or

B. notify the excavator at the telephone number provided in subpart 1, item C, that there is not an underground facility within the area of proposed excavation.

For purposes of this subpart, a requested start time of three hours or less from the time notice is provided to the center is considered an emergency notice requesting immediate response under subpart 3.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0350 EXCAVATION NOTICE REQUESTING MEET.

Subpart 1. **Excavator duties.** When requesting a meet through the notification center, an excavator must provide at least one contact name and telephone number to assist in facilitating the meet. An excavator shall contact the notification center to cancel or reschedule the meet and the notification center shall relay this information to the affected operators. When a meet is requested, an excavator's notice must include the entire geographic area of the proposed excavation and the specific location of the meet. This part does not relieve an excavator from the duty to provide a precise geographic location of the proposed area of excavation, or to use white markings except where it can be shown that to do so is not practical.

Subp. 2. **Operator duties.** When a meet is requested, an affected operator shall make a reasonable effort to attend the meet at the proposed date and time, or contact the excavator before the meet and reschedule for a mutually agreed date and time.

Subp. 3. **Excavation start date and time.** When a meet is requested, the meet date and time must be at least 48 hours after notice is provided, excluding Saturdays, Sundays, and holidays, and the excavation start date and time must be at least 24 hours after the proposed meet date and time specified on the notice, excluding Saturdays, Sundays, and holidays. This subpart does not apply if these matters are provided for in a written agreement with all affected operators.

Subp. 4. **Meet request documentation.** An excavator shall maintain written documentation of each meet with an underground facility operator or representative. This documentation must be kept for the duration of the excavation conducted under the notice. The documentation must include:

- A. the date and time of each meet;
- B. the names, company affiliations, and contact information of the attendees of each meet;
- C. a diagram, sketch, or description of the precise excavation locations, dates, and times; and
- D. the agreed schedule of any future meets or communications.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0375 LOCATING A SERVICE LATERAL.

Subpart 1. **Operator duties.** Unless otherwise agreed, an underground facility operator shall locate a service lateral before the start date and time on the notice and in accordance with items A through C:

A. An operator of a natural gas, propane, or electric facility shall locate a service lateral up to the meter or the connection to a customer's underground facility, whichever is closer to the end-use customer. If the meter or connection to the customer's underground facility is within a public right-of-way, at a minimum the operator shall locate that portion of the service lateral within the public right-of-way up to the point where the service lateral first leaves the public right-of-way.

B. An operator of a communication facility shall locate a service lateral up to the entry of the first building. If the service lateral does not enter a building, the operator shall locate up to the utilization equipment, fence, or wall that surrounds the equipment.

C. After December 31, 2005, an operator of a sewage or water facility, at a minimum, shall locate that portion of the service lateral within a public right-of-way installed after that date up to the point where the service lateral first leaves the public right-of-way. The operator shall either locate or provide information as shown on maps, drawings, diagrams, or other records, on the location of a sewer or water service lateral installed before January 1, 2006. If no information is available on a sewer or water service lateral installed before January 1, 2006, then notifying the excavator that no information exists fulfills the requirements of this section.

Subp. 2. **Exception.** An operator is not required to locate a service lateral of a customer who currently participates in the statewide notification system, provided the customer and operator mutually agree that the customer will assume locate responsibilities. The agreement must be in writing.

Statutory Authority: *MS s 299J.04*

History: *29 SR 1503*

Published Electronically: *July 20, 2005*

7560.0400 CITATIONS.

Subpart 1. **Notice of violation.** The office shall issue a notice of probable violation when the office has good cause to believe a violation of Minnesota Statutes, sections 216D.01 to 216D.09 or this chapter has occurred.

Subp. 2. **Contents of notice of violation.** A notice of violation must include:

7560.0500 EXCAVATION NOTICE SYSTEM

8

- A. a statement of the statute or rule allegedly violated by the person and a description of the evidence on which the allegation is based;
- B. notice of response options available to the person cited;
- C. notice that the person has 30 days in which to respond;
- D. notice that failure to respond within 30 days precludes administrative review under this chapter; and
- E. if a civil penalty is proposed, the amount of the proposed civil penalty and the maximum civil penalty applicable under law.

Subp. 3. **Receipt of notice.** The notice of violation is deemed received three days after mailing to the person's last known address.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

7560.0500 RESPONSE OPTIONS.

The person shall respond to the notice of violation in the following way:

- A. When the notice contains a proposed compliance order, the person shall:
 - (1) agree to the proposed compliance order;
 - (2) request the execution of a consent order;
 - (3) object to the proposed compliance order and submit written explanations, information, or other materials in answer to the allegations in the notice; or
 - (4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.
- B. When the notice contains a proposed civil penalty, the person shall:
 - (1) pay the penalty and close the case;
 - (2) submit an offer in compromise of the proposed civil penalty;
 - (3) submit a written explanation, information, or other material in answer to the allegations or in mitigation of the proposed civil penalty; or
 - (4) request the office to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.
- C. Failure to respond in writing within 30 days precludes administrative review under this chapter. A final order will be issued and penalties will be forwarded for collection.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

7560.0600 DIRECTOR REVIEW.

If the person objects to the proposed civil penalty or compliance order and submits written explanations, information, or other materials in response to a notice of violation, within the time specified in part 7560.0500, the director shall review the submissions and determine whether to negotiate further, to change or withdraw the notice of violation, or to initiate a hearing under Minnesota Statutes, sections 14.50 to 14.69.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

7560.0700 CONSENT ORDER.

An executed consent order must contain:

- A. an admission by the person of the jurisdictional facts;
- B. a waiver of further procedural steps and the right to seek judicial or administrative review or otherwise challenge or contest the validity of the consent order; and
- C. an agreement that the notice of violation may be used to construe the terms of the consent order.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.641*

History: *16 SR 135*

Published Electronically: *July 20, 2005*

7560.0800 CIVIL PENALTIES.

Subpart 1. **Proceedings against excavators.** When the office has good cause to believe that an excavator is engaging or has engaged in conduct that violates Minnesota Statutes, section 216D.04, subdivision 1, 2, or 3; 216D.05, clause (1), (2), (3), or (4); or 216D.06, subdivision 1, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14. An operator who engages or has engaged in excavation that violates Minnesota Statutes, chapter 216D, is subject to the proceedings specified in subpart 2 and is subject to the penalties specified in subpart 4, item B or C.

Subp. 2. **Proceedings against underground facility operators.** The office may negotiate a civil penalty under item A or B.

A. When the office has good cause to believe that an underground facility operator, other than an operator set forth in item B, is engaging or has engaged in conduct that violates Minnesota Statutes, sections 216D.01 to 216D.07, or a rule adopted under Minnesota Statutes, section 216D.08, subdivision 4, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 216D.08, subdivision 2. A penalty imposed under Minnesota Statutes, section 216D.08, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

7560.0800 EXCAVATION NOTICE SYSTEM

10

B. When the office has good cause to believe that an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility is engaging or has engaged in conduct that violates Minnesota Statutes, sections 299F.56 to 299F.641, or a rule adopted under Minnesota Statutes, section 299F.60, subdivision 5, the office, if appropriate, shall negotiate a civil penalty under Minnesota Statutes, section 299F.60, subdivision 2. A penalty imposed under Minnesota Statutes, section 299F.60, is subject to the contested case and judicial review provisions of Minnesota Statutes, chapter 14.

Subp. 3. **Assessment considerations.** In assessing a civil penalty under this part, the office shall consider the following factors:

- A. the nature, circumstances, and gravity of the violation;
- B. the degree of the person's culpability;
- C. the person's history of previous offenses;
- D. the person's ability to pay;
- E. good faith on the part of the person in attempting to remedy the cause of the violation;
- F. the effect of the penalty on the person's ability to continue in business; and
- G. past reports of damage to an underground facility by a person.

Subp. 4. **Maximum penalties.** For the purposes of this part, penalties imposed under this part must not exceed the limits in items A to C.

A. Penalties imposed against excavators must not exceed \$1,000 for each violation per day of violation.

B. Penalties imposed against underground facility operators, other than an operator set forth in item C, must not exceed \$1,000 for each violation per day of violation.

C. Penalties imposed against an operator who engages in the transportation of gas or hazardous liquids or who owns or operates a gas or hazardous liquid pipeline facility must not exceed \$10,000 for each violation for each day that the violation persists, except that the maximum civil penalty must not exceed \$500,000 for a related series of violations.

Subp. 5. **Payment procedure.** The person shall pay a civil penalty that has been proposed, assessed, or compromised by submitting to the office a check or money order in the correct amount, payable to the commissioner of public safety.

Statutory Authority: *MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04*

History: *16 SR 135; 24 SR 448*

Published Electronically: *July 20, 2005*

Certificate Of Completion

Envelope Id: ED6E293AC521489490CFA6B22FF1792A
 Subject: Sherri Albritton - ROW Permit Application
 Source Envelope:
 Document Pages: 251
 Certificate Pages: 4
 AutoNav: Enabled
 Envelopeld Stamping: Enabled
 Time Zone: (UTC-06:00) Central Time (US & Canada)

Status: Completed
 Envelope Originator:
 Highway Permits
 Anoka County Government Center
 2100 3rd Avenue
 Anoka, MN 55303
 highwaypermits@anokacountymn.gov
 IP Address: 66.191.128.98

Record Tracking

Status: Original 9/24/2024 12:43:07 PM	Holder: Highway Permits highwaypermits@anokacountymn.gov	Location: DocuSign
Security Appliance Status: Connected	Pool: StateLocal	
Storage Appliance Status: Connected	Pool: Anoka County	Location: DocuSign

Signer Events

Nathan Mechtel
 sherria@landwehrconstruction.com
 Security Level:
 DocuSign.email
 ID: 1
 9/24/2024 12:43:09 PM

Signature

Signed by:

5CC126F6093847D...
 Signature Adoption: Pre-selected Style
 Using IP Address: 66.191.128.98

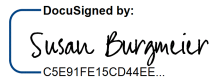
Timestamp

Sent: 9/24/2024 12:43:08 PM
 Viewed: 9/24/2024 12:43:16 PM
 Signed: 9/24/2024 12:51:43 PM

Electronic Record and Signature Disclosure:

Accepted: 9/24/2024 10:21:15 AM
 ID: 21347bf5-b87f-443d-b36a-a65a76bd1dc3

Susan Burgmeier
 Susan.Burgmeier@anokacountymn.gov
 Associate Traffic Technician
 Anoka County
 Signing Group: Highway Permits
 Security Level: Email, Account Authentication (Optional)

DocuSigned by:

C5E91FE15CD44EE...
 Signature Adoption: Pre-selected Style
 Using IP Address: 156.98.106.245

Sent: 9/24/2024 12:51:51 PM
 Viewed: 9/24/2024 3:08:48 PM
 Signed: 9/24/2024 3:18:26 PM

Electronic Record and Signature Disclosure:

Accepted: 9/24/2024 11:01:19 AM
 ID: fe3a0e33-c205-4a9e-8742-e9183e846a84

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp
Certified Delivery Events	Status	Timestamp
Carbon Copy Events	Status	Timestamp

Sherri Albritton
 sherria@landwehrconstruction.com
 Security Level: Email, Account Authentication (Optional)

COPIED

Sent: 9/24/2024 3:18:33 PM

Electronic Record and Signature Disclosure:

Carbon Copy Events	Status	Timestamp
---------------------------	---------------	------------------

Not Offered via DocuSign

Witness Events	Signature	Timestamp
-----------------------	------------------	------------------

Notary Events	Signature	Timestamp
----------------------	------------------	------------------

Envelope Summary Events	Status	Timestamps
--------------------------------	---------------	-------------------

Envelope Sent	Hashed/Encrypted	9/24/2024 12:43:08 PM
Envelope Updated	Security Checked	9/24/2024 12:51:44 PM
Envelope Updated	Security Checked	9/24/2024 3:18:26 PM
Certified Delivered	Security Checked	9/24/2024 3:08:48 PM
Signing Complete	Security Checked	9/24/2024 3:18:26 PM
Completed	Security Checked	9/24/2024 3:18:33 PM

Payment Events	Status	Timestamps
-----------------------	---------------	-------------------

Electronic Record and Signature Disclosure

ELECTRONIC RECORD AND SIGNATURE DISCLOSURE

The following information constitutes Anoka County's (we, us or Company) written notices or disclosures relating to your use of DocuSign in relation to Anoka County's license. Described below are the terms and conditions for providing notices and disclosures electronically through the DocuSign system. Please read the information below carefully and thoroughly, and if you agree to this Electronic Record and Signature Disclosure (ERSD), please confirm your agreement by selecting the check-box next to 'I agree to use electronic records and signatures' before clicking 'CONTINUE' within the DocuSign system.

Getting paper copies

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after the signing session and, if you elect to create a DocuSign account, you may access the documents for a limited period of time (30 days) after the documents are first sent to you. At any time, if you request paper copies of any documents, you may be charged a fee. You may request paper copies from us by following the procedure described below.

Withdrawing your consent

If you decide to receive notices, disclosures and documents from us electronically, you may change your mind and tell us that going forward you want to receive documents only in paper format. Please note, processing time will be slowed down dramatically as we will be required to print and send the document through the mail and await your return of the documents. The process to change the method of receipt is described below.

All notices and disclosures will be sent to you electronically

Upon your acceptance to receive electronic notifications, all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you will be provided electronically through the DocuSign system. All of the required documents will be provided to you at the address that you have given us.

How to contact Anoka County:

You may change your preferred method of contact whether electronically, or paper copies, or change your email address. You may also request paper copies of certain information from us, or withdraw your prior consent to receive documents. Please use the contact information below for your request and in the body of your correspondence, identify your desired action. If you are

changing an email address, please include your prior email address as well as your new address. If you no longer wish to receive future documents in electronic format, please include that request in the body of your email.

Email: helpdesk@co.anoka.mn.us

Phone: (763)-324-4110

Address: Anoka County Government Center
Attn: Information Technology, #300
2100 3rd Avenue
Anoka, MN 55303

Required hardware and software

The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: <https://support.docusign.com/guides/signer-guide-signing-system-requirements>.

ACKNOWLEDGEMENT

To confirm your access to the electronic notices and disclosures, which will be similar to other electronic notices and disclosures that we may provide to you, please acknowledge that you have read this ERSD by selecting the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

By selecting the check-box next to ‘I agree to use electronic records and signatures’, you confirm that:

- You can access and read this Electronic Record and Signature Disclosure; and
- You can print this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify Anoka County as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by Anoka County during the course of your relationship with Anoka County.