NOT VALID UNLESS SIGNED BY ANOKA COUNTY
PERMIT NUMBER

Anoka County MINNESOTA

ANOKA COUNTY TRANSPORTATION DIVISION 1440 BUNKER LAKE BLVD NW ANDOVER, MN 55304

763-324-3176 highwaypermits@co.anoka.mn.us

23-266

RIGHT OF WAY X
COMMERCIAL ACCESS

CSAH 7

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 ACM, LLC CONTACT PERSON CURT CHRISTENSEN

ADDRESS 5751 357TH AVE NW CITY Princeton

PHONE NUMBER 651-249-4022 EMAIL curt@acm.llc.net

COMPANY OR INDIVIDUAL PERFORMING WORK ACM, LLC

CONTACT PERSON CURT CHRISTENSEN EMAIL curt@acm-llc.net

PERMIT WORK TO START 6/5/2023

PERMIT WORK TO BE COMPLETED 9/9/2023

DURATION OF JOB 93 DAYS

ARE YOU BEING ASKED TO RELOCATE DUE TO A COUNTY PROJECT? NO

ANOKA COUNTY PROJECT NUMBER

WORK SITE ADDRESS HARRISON STREET

CITY Anoka

METHOD OF INSTALLATION/CONSTRUCTION MILLING, PAVING, REMOVALS, CURB, GUTTER, SIDEWALK REPAIRS

NATURE OF WORK STREET SURFACE IMPROVEMENTS on City Street.

On CSAH 7, traffic control signage

SURFACE TO BE DISTURBED SITE PLAN

DITCH/BLVD

GRAVEL

x BITUMINOUS

X CONCRETE

NONE

(60" minimum under county roads)

DEPTH FROM SURFACE 60" + -

SIZE AND KIND OF PIPE/CABLE 12" RCP

NUMBER OF EXCAVATIONS 2

If the roadway is encroached, you must attach a traffic control plan and/or reference the most current version of the Minnesota Temporary Traffic Control Field Manual.



Traffic control per approved plan. Traffic control devices/signage on CSAH 7.

SIZE OF EXCAVATIONS 15'X15' (Length, width, and depth)

LOCATION OF EXCAVATIONS

(Specific written descriptions of excavations)

ON THE NW CORNER OF HARRISON AND 6TH AVE, REMOVE REPLACE STORM SEWER STRUCTURE AND APROXIMITLS 20LF OF 12" RCP AND REPLACE WITH NEW, REMOVE AND REPLACE SANITARY STORM SEWER CASTINGS, REMOVE REPLACE CURB AND GUTTER AS WELL AS SIDEWALK, RECLAME BITTUMINUS MILL AND PAVE STREET.

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PERMIT PHONE: 763-324-3176

highwaypermits@co.anoka.mn.us

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

—Docusigned by:

(WA (Wristensen

DATE

6/2/2023

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

TITLE: Traffic Technician

Susan Burgmeier

6/5/2023

NOT VALID UNLESS SIGNED BY ANOKA COUNTY



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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

- 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 soon 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.



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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.
- 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 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 Andrea Schmid at 763-324-3128 or andrea.schmid@co.anoka.mn.us
 - a) At least 36 hours prior to the commencement of work
 - b) When there is any change to traffic control set up (ex: stage 1 to stage 2)
 - c) When work is complete including restorations
- 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





Highway

Transit

Surveyor

GIS

Fleet

Anoka County TRANSPORTATION DIVISION

Respectful, Innovative, Fiscally Responsible

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 Statues 216D that is attached to this notice.

This notice is a requirement of State Statute 216D.02; Notice to Excavators and Operators.

MINNESOTA STATUTES 2022

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.03

216D.04

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.

216D.04

- (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.

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216D.04

(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

MINNESOTA STATUTES 2022

216D.05

216D.05 PRECAUTIONS TO AVOID DAMAGE.

An excavator shall:

1

- (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

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216D.06

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

MINNESOTA STATUTES 2022

216D.07

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
7560.0100	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]

- 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:

- 3
- 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.

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

EXCAVATION NOTICE SYSTEM 7560.0325

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:

- 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:

EXCAVATION NOTICE SYSTEM 7560.0400

- 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:

- 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

- 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.

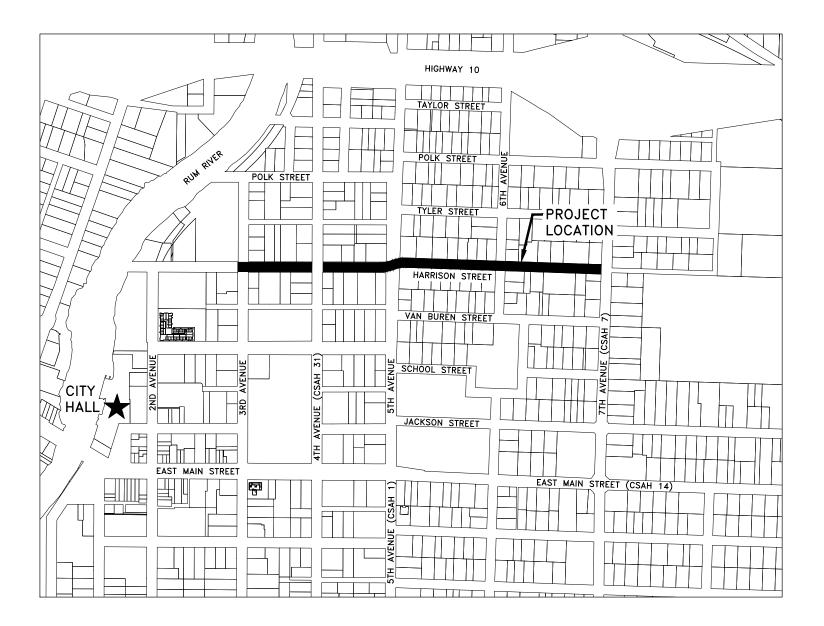
Statutory Authority: MS s 14.06; 216D.08; 299F.56; 299F.60; 299F.641; 299J.04

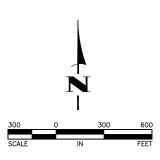
History: 16 SR 135; 24 SR 448

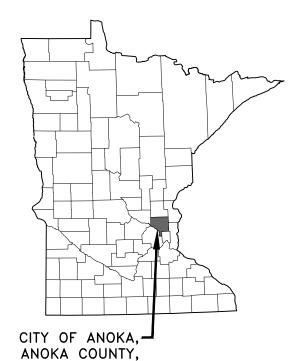
Published Electronically: July 20, 2005

HARRISON STREET SURFACE IMPROVEMENT PROJECT

CONSTRUCTION PLANS FOR BITUMINOUS PAVEMENT RECLAMATION, BITUMINOUS SURFACING, STRIPING AND MISCELLANEOUS CONSTRUCTION **CITY OF ANOKA**







MINNESOTA

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."

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES AND SIGNING 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.

ALL REQUIREMENTS OF THE PROJECT MANUAL FOR THE HARRISON STREET

SHEET INDEX

THIS PLAN CONTAINS 27 SHEETS

SHEET NO. DESCRIPTION

ESTIMATED QUANTITIES AND TABULATIONS
CONSTRUCTION NOTES, PROJECT LEGEND, AND TYPICAL SECTIONS

DETAILS

PEDESTRIAN CURB RAMP DETAILS

TRAFFIC CONTROL PLAN
EXISTING CONDITIONS AND REMOVALS PLAN

CONSTRUCTION PLAN

PEDESTRIAN CURB RAMP CONSTRUCTION PLANS

21-22 STRIPING PLAN

CROSS SECTIONS

Dry Lee	DATE	4/19/23
APPROVED: GREE LEE		
ANOKA CITY MANAGER		

hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed rofessional Engineer under the laws of the State of Minnesota

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ha	- (3461		DATE	4/19/23
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DESIGN	ENG	INEER									

DATE	REVISION	

SHEET 1 OF 22 SHEETS



	ESTIMATED QUANTITIES					
ITEM	REF.	Mn/DOT	2011111122 Q011111112		TOTAL ESTIMATED	
NO.	NOTES	SPEC. NO.	DESCRIPTION	UNIT	QUANTITY	
1		2021.501	MOBILIZATION	LUMP SUM	1	
2		2104.502	REMOVE CATCH BASIN	EACH	1	
3		2104.502	REMOVE CASTING	EACH	19	
4		2104.502	SALVAGE CASTING	EACH	2	
5		2104.503	SAWING CONCRETE PAVEMENT - FULL DEPTH	LIN FT	786	
6		2104.503	SAWING BITUMINOUS PAVEMENT - FULL DEPTH	LIN FT	399	
7		2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	19	
8		2104.503	REMOVE CURB AND GUTTER	LIN FT	738	
9		2104.518	REMOVE CONCRETE WALK	SQ FT	3711	
10		2104.604	SALVAGE LANDSCAPE ROCK	SQ YD	10	
11		2104.618	SALVAGE BRICK PAVERS	SQ FT	14	
12		2112.519	SUBGRADE PREPARATION	ROAD STA	22.1	
13		2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	20	
14		2130.523	WATER	M GALLON	100	
15		2215.504	FULL DEPTH RECLAMATION	SQ YD	8547	
16		2215.507	HAUL AND STOCKPILE FULL DEPTH RECLAMATION (LV)	CU YD	1312	
17		2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	48	
18		2301.503	INTEGRANT CURB DESIGN V6	LIN FT	50	
19		2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLONS	598	
20		2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,B)	TON	1128	
21		2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (2,B)	TON	1410	
22		2503.503	12" RC PIPE SEWER DESIGN 3006 CLASS V	LIN FT	21	
23		2504.602	ADJUST VALVE BOX	EACH	9	
24		2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN H	EACH	1	
25		2506.502	CASTING ASSEMBLY	EACH	20	
26		2506.502	INSTALL CASTING	EACH	2	
27		2506.602	GROUT CATCH BASIN OR MANHOLE	HOUR	5	
28		2506.602	CONNECT INTO EXISTING MANHOLE	EACH	1	
29		2521.518	4" CONCRETE WALK	SQ FT	2244	
30		2521.518	6" CONCRETE WALK	SQ FT	1467	
31		2531.503	CONCRETE CURB AND GUTTER DESIGN B624	LIN FT	738	
32		2531.618	TRUNCATED DOMES	SQ FT	176	
33		2540.604	INSTALL LANDSCAPE ROCK	SQ YD	10	
34		2540.618	INSTALL BRICK PAVERS	SQ FT	14	
35		2563.601	TRAFFIC CONTROL	LUMP SUM	1	
36		2563.601	ALTERNATE PEDESTRIAN ROUTE	LUMP SUM	1	
37		2572.503	TEMPORARY FENCE	LIN FT	200	
38		2573.502	STORM DRAIN INLET PROTECTION	EACH	10	
39		2575.601	LANDSCAPING RESTORATION	ALLOWANCE	1	
40	1	2575.605	SITE RESTORATION	SQ YD	966	
41		2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	3939	
42		2582.503	24" SOLID LINE MULTI-COMPONENT	LIN FT	206	
43		2582.503	4" BROKEN LINE MULTI-COMPONENT	LIN FT	440	
44		2582.518	CROSSWALK MULTI-COMPONENT	SQ FT	1152	

BASIS OF ESTIMATED QUANTITIES				
NON WEARING BITUMINOUS COURSE MIXTURE	110 lbs/yd²/in			
WEARING COURSE BITUMINOUS MIXTURE	110 lbs/yd²/in			
BITUMINOUS MATERIAL FOR TACK COAT	0.05 gal/yd ²			
SEED MIXTURE 25-131	220 lbs/acre			
HYDRAULIC BONDED FIBER MATRIX	3500 lbs/acre			
TYPE 3, SLOW RELEASE FERTILIZER	400 lbs/acre			
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REFERENCE NOTES:

① SEE SHEET 3 AND DIVISION 2, SPECIAL PROVISION S-9, OF THE PROJECT MANUAL FOR ADDITIONAL INFORMATION ON ESTABLISHING TURF.

	STANDARD PLATES					
Т	THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY					
PLATE NO.	DESCRIPTION					
3000M	REINFORCED CONCRETE PIPE (6 SHEETS)					
3006H	GASKET JOINT FOR R.C. PIPE (2 SHEETS)					
4006L	MANHOLE OR CATCH BASIN PRECAST - DESIGNS G AND H					
4010I	CONCRETE SHORT CONE AND ADJUSTING RING (SECTIONAL CONCRETE)					
4011E	PRECAST CONCRETE BASE					
4026B	CONCRETE ENCASED CONCRETE ADJUSTING RINGS					
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN					
4110F	COVER CASTING FOR MANHOLE					
4154B	CATCH BASIN GRATE CASTING					
4160D	CURB BOX CASTING FOR CATCH BASIN					
7000E	INTEGRANT CURBS (DESIGN B, DESIGN V AND DESIGN D)					
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES					
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)					
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)					

AN397\				
ž	DATE	REVISION	I hereby certify that this plan, specification, or report was	DESIGNED BY:
≯ V			prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws	CJJ
			of the State of Minnesota.	DRAWN BY: SGJ
K: \MUNICIF			Date 4/19/23 Lic. No. 23461	CHECKED BY: TAE

Hakanson Anderson
Civil Engineers and Land Surveyors
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HARRISON STREET SURFACE IMPROVEMENT PROJECT

ESTIMATED QUANTITIES AND TABULATIONS

CITY OF ANOKA, MINNESOTA



GENERAL CONSTRUCTION AND SOILS NOTES:

- 1. SUITABLE GRADING MATERIAL FOR THIS PROJECT SHALL CONSIST OF ALL SOILS ENCOUNTERED WITH THE EXCEPTION OF TOPSOIL, SILT, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL.
- 2. WHEN PLACING NEW PAYEMENT ADJACENT TO INPLACE PAYEMENT CUT VERTICALLY TO THE BOTTOM OF INPLACE SURFACING OR TOP OF GRADING SUBGRADE, WHICHEVER IS DEEPER, AT A 1(V):2(H) TO THE
- 3. PROVIDE A SAW CUT WHEN PLACING NEW PAVEMENT ADJACENT TO INPLACE PAVEMENT AND AT TERMINI OF CONSTRUCTION TO ENSURE A UNIFORM JOINT.
- 4. BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN ACCORDANCE WITH MN/DOT SPEC. 2104.
- 5. USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURES. THE BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF 0.04 GAL/SY TO 0.06 GAL/SY BETWEEN BITUMINOUS LAYERS. THE APPLICATION RATES ARE FOR UNDILUTED EMULSIONS.
- 6. PERFORMANCE GRADED (PG) ASPHALT BINDER PG 58S-28, PER MN/DOT SPEC. 3151, SHALL BE USED FOR ALL BITUMINOUS MIXES ON THIS PROJECT.
- 7. THE BITUMINOUS MIXTURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS 2360 AND 3139.
- 8. IF NECESSARY, THE UTILITY COMPANIES WILL RELOCATE THEIR FACILITIES CONCURRENTLY WITH THE CONSTRUCTION OPERATIONS UNDER THIS CONTRACT. CONTRACTOR SHALL SCHEDULE CONSTRUCTION IN COOPERATION WITH UTILITY RELOCATION.
- CONTRACTOR SHALL REMOVE AND TEMPORARILY PLACE ALL MAILBOXES AT AN ENGINEER APPROVED LOCATION AS NEEDED DURING CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL.
- 10. ALL BITUMINOUS PAVEMENT THAT NEEDS TO BE REMOVED, BUT CANNOT BE RECLAIMED, TO COMPLETE THE CONSTRUCTION SHALL BE INCIDENTAL, UNLESS OTHERWISE NOTED ON THE PLANS.
- 11. CURB AND SIDEWALK REPLACEMENT AREAS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. CONTRACTOR WILL BE PAID TO SAWCUT SIDEWALK OR CONCRETE CURB AND GUTTER PER ITEM

 2104-SAWING CONCRETE PAVEMENT-FULL DEPTH. RESTORATION ADJACENT TO CURB AND SIDEWALK
 REMOVAL AREAS SHALL BE PER

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 AND

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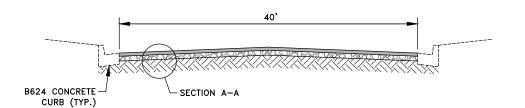
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- 12. SEE SECTION 01 35 00, SPECIAL PROJECT PROCEDURES, OF THE PROJECT MANUAL FOR ADDITIONAL INFORMATION REGARDING MEASUREMENT AND PAYMENT ITEMS.
- 13. CONTRACTOR SHALL PREPARE SUBGRADE UNDER CONCRETE CURB AND GUTTER AND SIDEWALKS WITH SUITABLE GRADING MATERIAL. PREPARATION OF THE SUBGRADE SHALL BE INCIDENTAL.
- 14. THE CONCRETE MIX DESIGNS FOR THIS PROJECT SHALL BE 3F52 FOR HAND—FORMED CONCRETE AND 3F32 FOR MACHINE FORMED CONCRETE. ENTRAINED AIR SHALL BE MAINTAINED BETWEEN 5% AND 7%. COARSE AGGREGATE SHALL BE CLASS A AGGREGATE.
- 15. IN ALL DISTURBED AREAS, THE CONTRACTOR SHALL SALVAGE AND REPLACE ALL EXISTING TOPSOIL. ALL DISTURBED AREAS SHALL BE RESTORED WITH SEED MIXTURE 25-131 AT A RATE OF 220 LBS/ACRE, TYPE 3 FERTILIZER AT A RATE OF 400 LBS/ACRE AND HYDRAULIC BONDED FIBER MATRIX AT A RATE OF 3500 LBS/ACRE. ALL RESTORATION WORK SHALL BE MEASURED BY THE SQUARE YARD AND BE PAID PER ITEM 2575-SITE RESTORATION.
- 16. AT CATCH BASIN REMOVAL LOCATIONS, CURB SHALL BE REMOVED AND RECONSTRUCTED PER 4

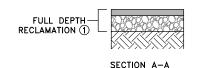
GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- 1. EROSION CONTROL SHALL CONFORM TO THE MN/DOT EROSION CONTROL HANDBOOK.
- 2. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL FACILITIES (BMP'S) PRIOR TO GRADING AND REMOVAL ACTIVITIES. BMP'S SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION ACTIVITIES AND POTENTIAL FOR EROSION HAS PASSED.
- 3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION.
- DUST CONTROL-ALL PUBLIC OR HAUL ROADS USED DURING CONSTRUCTION OF THE PROJECT SHALL BE TREATED WITH WATER OR OTHER ENGINEER APPROVED METHODS AS NECESSARY TO SUPPRESS DUST.
- 5. STREET CLEANING-THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND SWEEP ANY CONSTRUCTION MATERIAL AND DEBRIS THAT MAY BE TRACKED OR DEPOSITED ONTO STREETS LEADING TO OR ADJACENT TO THE PROJECT AREA. IF, UPON 6 HOURS NOTICE FROM THE ENGINEER, STREETS HAVE NOT BEEN CLEANED, THE ENGINEER MAY ORDER SUCH CLEANING BY OTHERS WITH THE COSTS OF SUCH SWEEPING OR CLEANING DEDUCTED FROM CONTRACT PAYMENTS.
- ALTERNATIVE INLET PROTECTION DEVICES MAY BE SUBSTITUTED WITH ENGINEER'S APPROVAL.
- 7. STORM DRAIN INLET PROTECTION SHALL BE PROVIDED AT CATCH BASINS DOWNSTREAM OF THE PROJECT AREA AS DIRECTED BY THE ENGINEER.

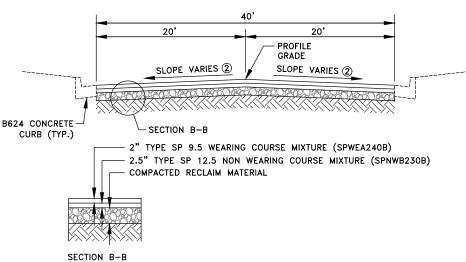
REFERENCE NOTES:

- ① CONTRACTOR SHALL RECLAIM TO A DEPTH OF BETWEEN 8 AND 12 INCHES, DEPENDING ON THE EXISTING BITUMINOUS AND AGGREGATE BASE DEPTH. THIS WORK SHALL BE PAID AS ITEM 2215-FULL DEPTH RECLAMATION. CONCTRACTOR SHALL HAUL AND STOCKPILE 4.25 INCHES OF RECLAMATION MATERIAL AT SUNNY ACRES PARK. THIS WORK SHALL BE PAID PER ITEM 2215-HAUL AND STOCKPILE FULL DEPTH RECLAMATION (LV). THE REMAINING RECLAIM MATERIAL SHALL BE SHAPED FOR THE NEW ROADWAY PAVEMENT. THIS WORK SHALL BE PAID PER ITEM 2112-SUBGRADE PREPARATION. SEE DIVISION 1 SECTION 01 35 00, OF THE PROJECT MANUAL FOR ADDITIONAL INFORMATION REGARDING HAULING AND STOCKPILING OF THE RECLAMATION MATERIAL.
- SEE CROSS SECTION SHEETS FOR ROAD CROSS SECTION GRADES



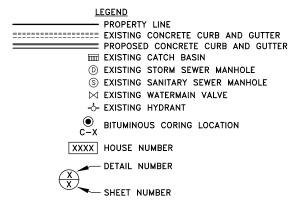


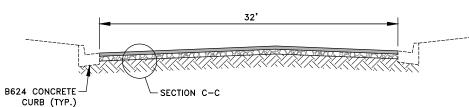
EXISTING STREET SECTION

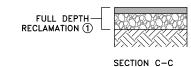


PROPOSED STREET SECTION

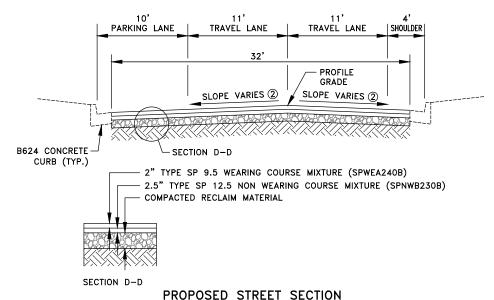








EXISTING STREET SECTION



TYPICAL SECTION STA 5+47 TO 22+90

e 4/19/23 J. JOCHUM, P.E.

CJJ

SGJ

Hakanson Anderson

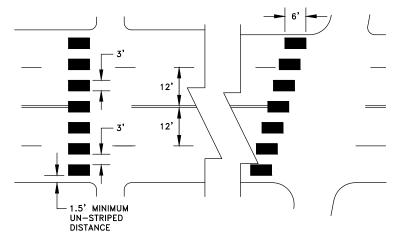
Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763-427-5860 FAX 763-427-0520 www.hakanson-anderson.com

HARRISON STREET SURFACE IMPROVEMENT PROJECT

CONSTRUCTION NOTES, PROJECT LEGEND, AND TYPICAL SECTIONS

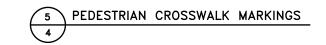
CITY OF ANOKA, MINNESOTA

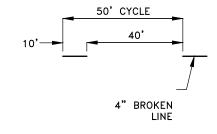




GENERAL CROSSWALK NOTES:

- 1. PAINTED AREAS TO BE CENTERED ON CENTERLINE AND LANE LINES.
- 2. A MINIMUM OF 1.5 FT. CLEAR DISTANCE SHALL BE LEFT ADJACENT TO THE CURB. IF LAST PAINTED AREA FALLS INTO THIS DISTANCE IT MUST BE OMITTED.
- ON TWO LANE TWO WAY STREETS, USE SPACING SHOWN FOR AN 11 FT. INSIDE LANE.
- 4. FOR DIVIDED ROADWAYS, ADJUSTMENTS IN SPACING OF THE BLOCKS SHOULD BE MADE IN THE MEDIAN SO THAT THE BLOCKS ARE MAINTAINED IN THEIR PROPER LOCATION ACROSS THE TRAVELED PORTION OF THE ROADWAY.
- 5. AT SKEWED CROSSWALKS, THE BLOCKS ARE TO REMAIN PARALLEL TO THE LANE LINES AS SHOWN.
- 6. THE BLOCKS SHALL BE PLACED SO THAT THEY ARE NOT LOCATED IN THE WHEEL PATH OF THE VEHICLES.
- 7. CROSSWALK MARKINGS SHALL BE WHITE MULTI-COMPONENT.







REFERENCE NOTES:

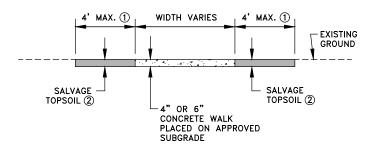
- ① ALL INLET TYPE STORM SEWER CASTINGS SHALL USE CONCRETE ADJUSTMENT RINGS. THE CONTRACTOR SHALL USE STANDARD AVAILABLE RING THICKNESSES THAT MINIMIZE THE NUMBER OF RINGS REQUIRED. A MAXIMUM OF 3 RINGS SHALL BE USED FOR ADJUSTMENT. THE MINIMUM ADJUSTMENT HEIGHT SHALL BE 4 INCHES AND THE MAXIMUM ADJUSTMENT HEIGHT SHALL BE 8 INCHES.
- ② GROUT PERIMETER OF CATCH BASIN AND ADJUSTING RINGS PER MN/DOT STANDARD PLATE 4026.
- (3) ALL AREAS DISTURBED BY CATCH BASIN REPLACEMENT SHALL BE RESTORED WITH SEED AND FERTILIZER AND STABILIZED WITH HYDRAULIC BONDED FIBER MATRIX AT THE RATES SHOWN ON SHEET 2 AND PER 15. THIS WORK SHALL BE PAID PER ITEM 2575—SITE RESTORATION.

SEE THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

4 CURB AT CATCH BASINS SHALL BE PAID PER ITEM 2531-CONCRETE CURB AND GUTTER DESIGN B624.

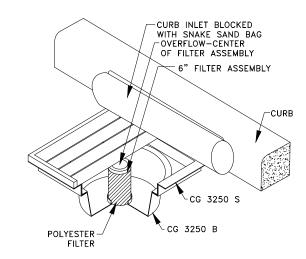






RESTORATION AT SIDEWALK AND PEDESTRIAN CURB RAMP REPLACEMENT LOCATIONS

NO SCALE



STORM DRAIN INLET PROTECTION 3

REFERENCE NOTES:

- 1 SEE SHEET 3 FOR RESTORATION REQUIREMENTS. THE CONTRACTOR WILL BE PAID FOR SITE RESTORATION UP TO THE MAXIMUM DISTANCES SHOWN. ALL RESTORATION BEYOND THIS DISTANCE SHALL BE INCIDENTAL.
- ② CONTRACTOR SHALL SALVAGE AND REPLACE EXISTING TOPSOIL. THIS WORK SHALL BE INCIDENTAL.
- (3) CONTRACTOR SHALL BE PAID FOR THE NUMBER OF INDIVIDUAL STORM DRAIN INLETS PROTECTED OVER THE LIFE OF THE CONTRACT, REGARDLESS OF THE TYPE AND NUMBER OF DEVICES USED AT EACH STORM DRAIN INLET.

DATE REVISION

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 Miningsota.

Date 4/19/23

Lic. No. 23461



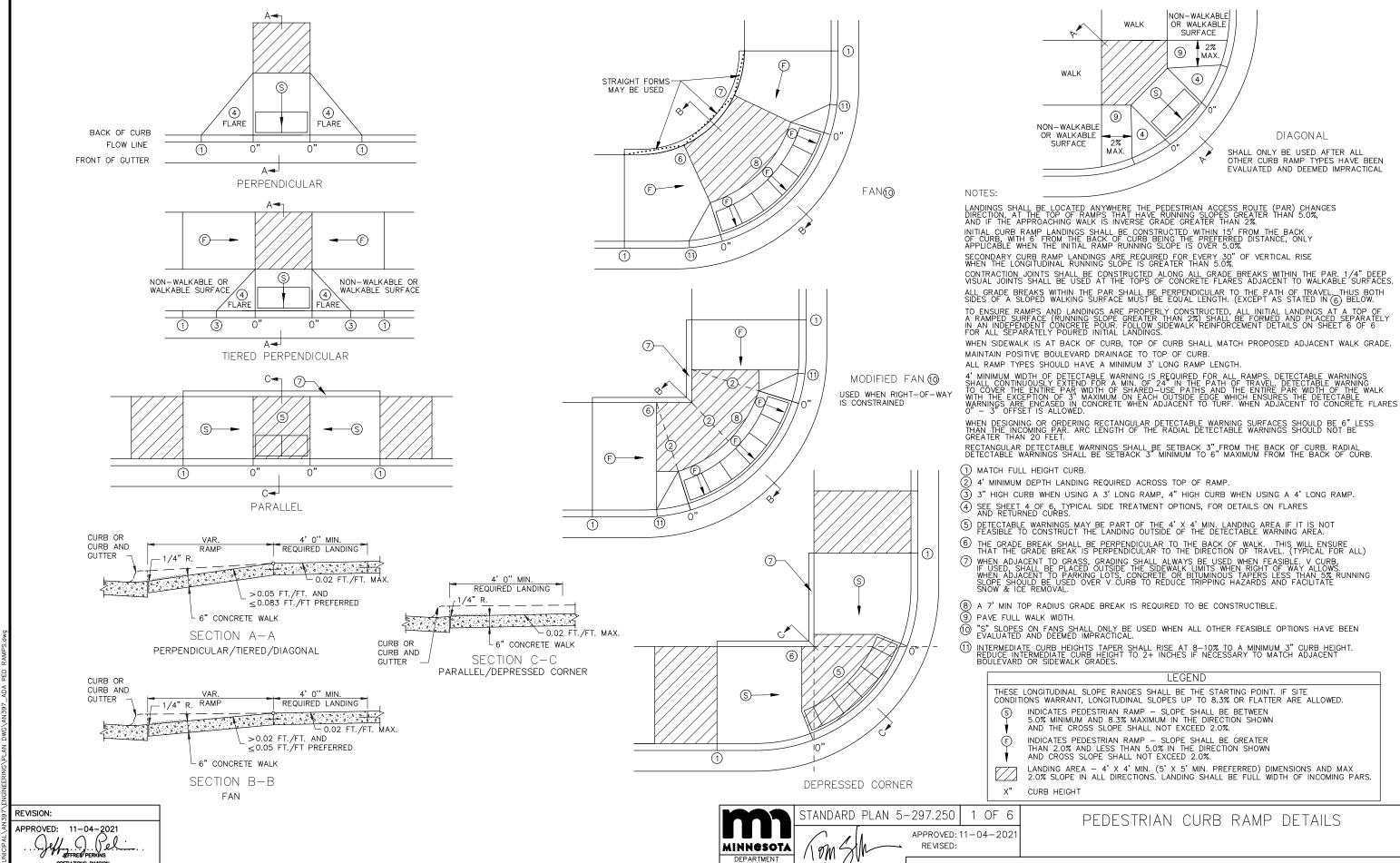
CJJ

DRAWN BY: SGJ Hakanson Anderson

Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763—427—5860 FAX 763—427—0520 www.hakanson—anderson.com HARRISON STREET SURFACE IMPROVEMENT PROJECT

DETAILS

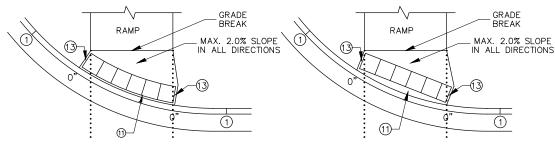
CITY OF ANOKA, MINNESOTA



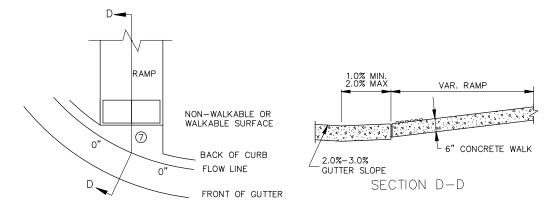
THOMAS TYRBICKI STATE DESIGN ENGINEER

Apr 20, 2023 - 10:34am

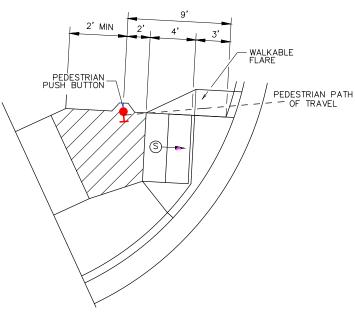
SHEET NO. 6 OF 22 SHEETS



DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED 12 ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB



CURB FOR DIRECTIONAL RAMPS (4)



SEMI-DIRECTIONAL RAMP (3)(4)(9)

3' DOME SETBACK, 4' LONG RAMP AND PUSH BUTTON 9' FROM THE BACK OF CURB

PRIMARILY USED FOR APS APPLICATIONS WHERE THE PAR DOES NOT CONTINUE PAST THE PUSH BUTTON (DEAD—END SIDEWALK)

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB. WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES. ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR THE PATH OF TRAVEL. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR, WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" — 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES $\textcircled{\tiny{0}}$ & $\textcircled{\tiny{1}}$ FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

- 1 MATCH FULL CURB HEIGHT.
- 3" MINIMUM CURB, HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES) 4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).
- (5) WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.
- (6) GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
- MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
- 8 8% TO 10% WALKABLE FLARE.
- 9 PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.
- FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SUFFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SUFFACE WITH ONE CORNER SET 3' FROM BACK OF CURB A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
- (1) RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
- (3) THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- (4) TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.
- 15 PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

- INDICATES PEDESTRIAN RAMP SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
- INDICATES PEDESTRIAN RAMP SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
- LANDING AREA 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

CURB HEIGHT



STANDARD PLAN 5-297.250 | 2 OF 6 APPROVED: 11-04-202

THOMAS STYRBICKI STATE DESIGN ENGINEER

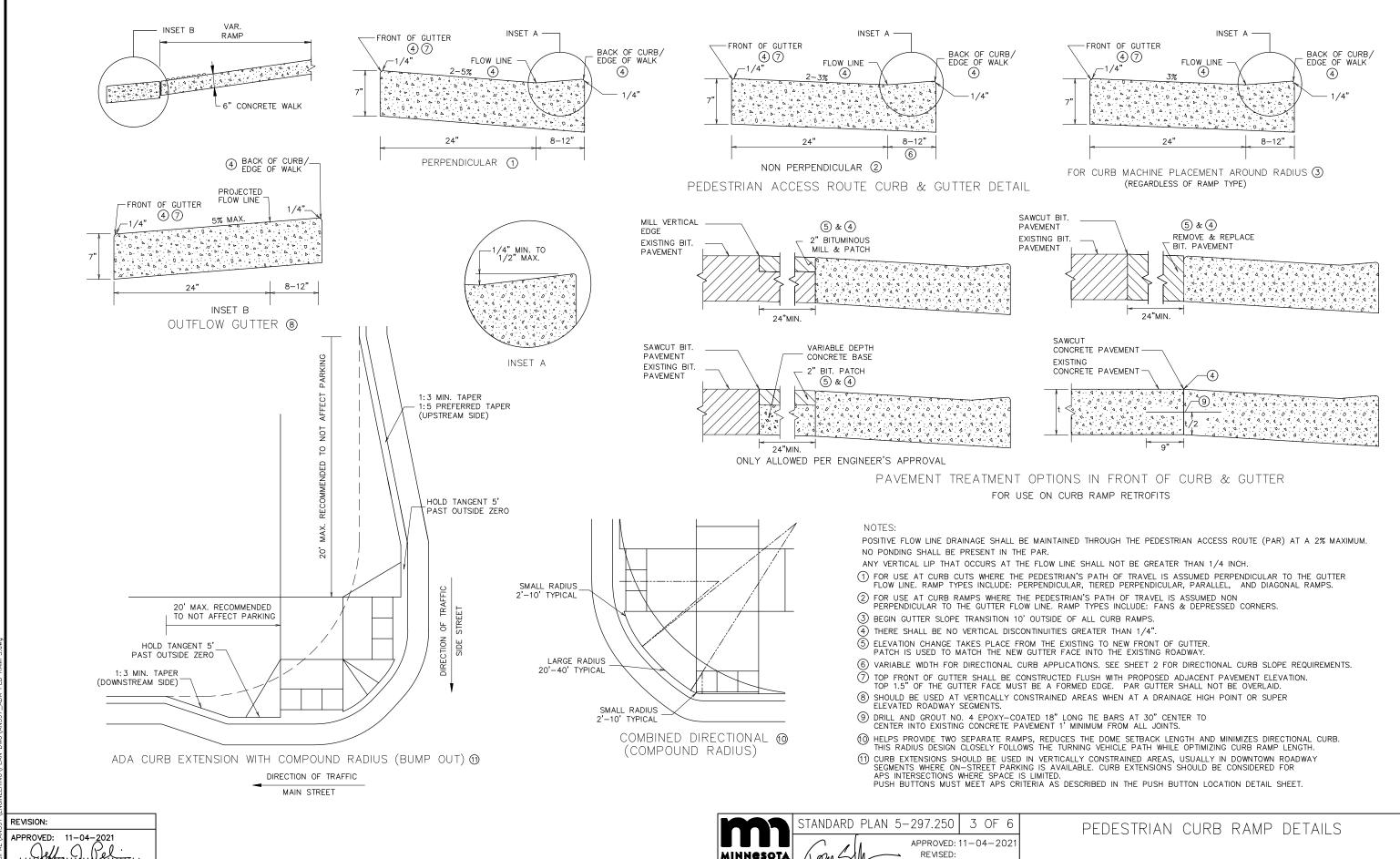
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PEDESTRIAN CURB RAMP DETAILS

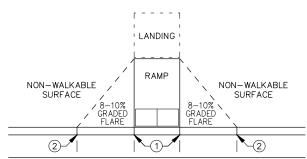
REVISION

APPROVED: 11-04-2021 L.C.Pel

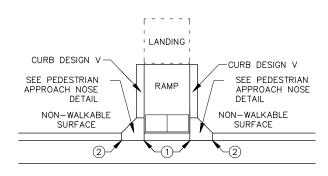
SHEET NO. 7 OF 22 SHEETS



MINNESOTA THOMAS STYRBICKI STATE DESIGN ENGINEE

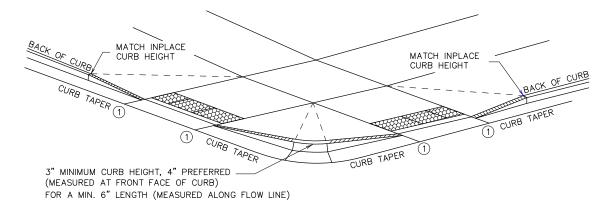


GRADED FLARES

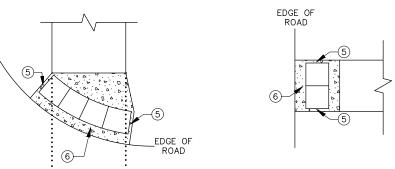


RETURNED CURB (4)

TYPICAL SIDE TREATMENT OPTIONS 3 10



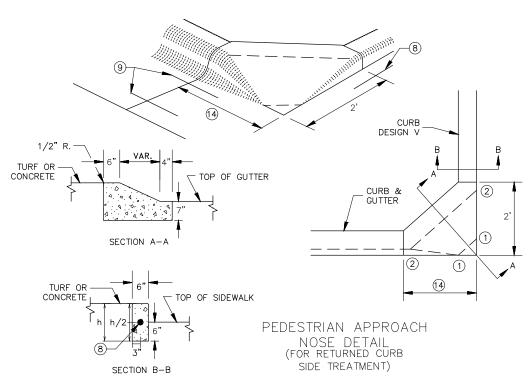
DETECTABLE EDGE WITH (7) CURB AND GUTTER

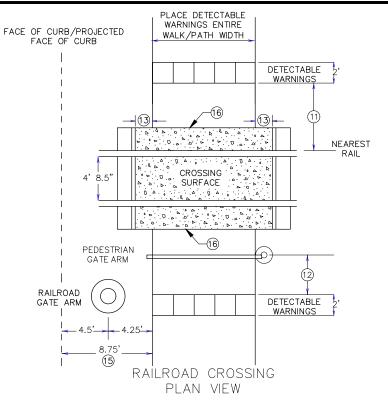


RADIAL DETECTABLE WARNING

RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER





NOTES:

INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT. INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

(1) O" CURB HEIGHT. SEE INSET A ON SHEET 3 OF 6.

APPROVED: 11-04-202

REVISED:

- (2) FULL CURB HEIGHT.
- 3 SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
- (4) TYPICALLY USED FOR MEDIANS AND ISLANDS.
- ⑤ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX. BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- (6) IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.
- (7) ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.
- (8) DRILL AND GROUT 1 NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.
- 9 DRILL AND GROUT 2 NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.
- 10 SIDE TREATMENT EXAMPLES SHOWN ARE WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6' LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE. CONSTRUCT THESE TAPER AT 0"-3" AT 8-10%, THEN LESS THAN 5% FROM 3" CURB TO FULL CURB HEIGHT.
- ${rac{1}{10}}$ nearest edge of detectable warning surfaces shall be placed 12' minimum to 15' maximum from the nearest rail. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO
- (2) WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FORM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE 11.
- (3) CROSSING SURFACE SHALL EXTEND 2' MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.
- (f 4) 3' FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2'ON FREE RIGHT ISLANDS.
- (5) SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.
- (6) CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.



STANDARD PLAN 5-297.250 | 4 OF 6 THOMAS STYRBICKI STATE DESIGN ENGINEER

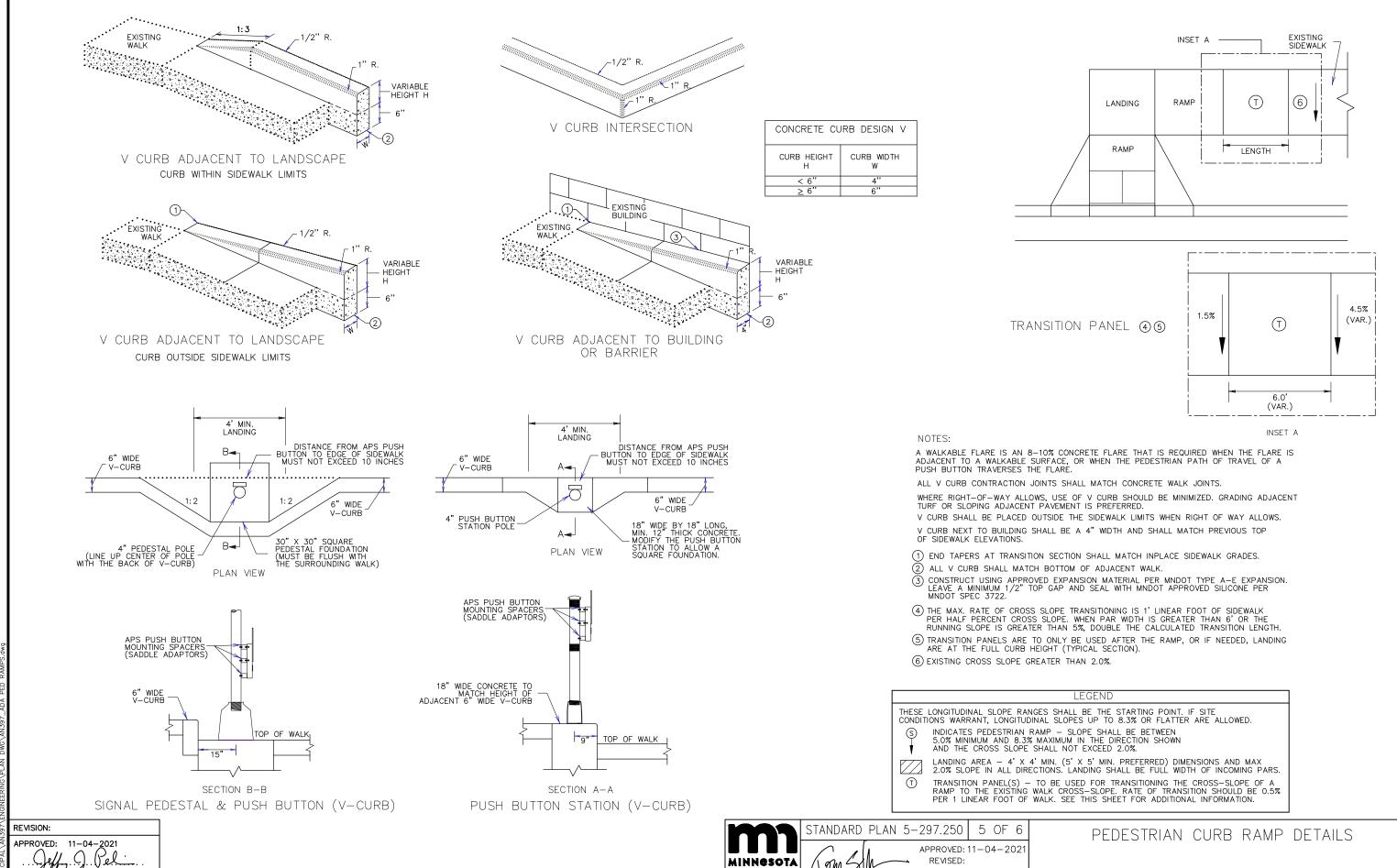
PEDESTRIAN CURB RAMP DETAILS

SHEET NO. 9 OF 22 SHEETS

REVISION

APPROVED:

11-04-2021

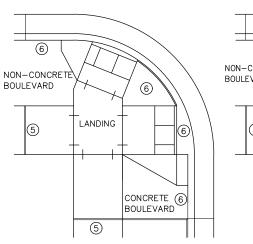


THOMAS TYRBICKI STATE DESIGN ENGINEER

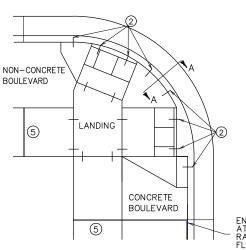
Apr 20, 2023 - 10:34am

SHEET NO. 10 OF 22 SHEETS

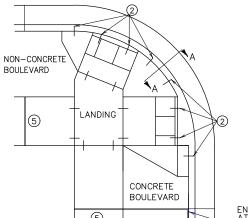
CURB LINE AND ROAD CROSSING ADJUSTMENTS



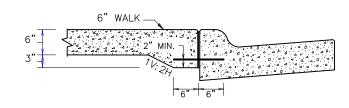
EXPANSION MATERIAL PLACEMENT FOR CONCRETE ROADWAYS



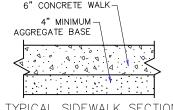
CURB LINE REINFORCEMENT 4 PLACEMENT ON BITUMINOUS ROADWAYS



END SILL CURB AT TOP OF CUR AT TOP OF CURB RAMP AND DRIVEWAY



SECTION VIEW A-A THICKENED SECTION THROUGH CURB RAMP FLARES



TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER

AND GUTTER

3" MIN.

MAX

36" MAX.



FLOW LINE PROFILE "TABLE" - TWIN PERPENDICULARS



FLOW LINE PROFILE "TABLE" - FAN



FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS

L	PEDESTRIAN RAMP	
1.0% MIN.	1.0% MIN.	1.0% MIN.
5.0% MAX.	1.5% PREFERRED	5.0% MAX.

FLOW LINE PROFILE RAISE - FAN

GENERAL NOTES:

"TABLING" OF CROSSWALKS MEANS MAINTAINING LESS THAN 2% CROSS SLOPE WITHIN A CROSSWALK, IS REQUIRED WHEN A ROADWAY IS IN A STOP OR YIELD CONDITION AND THE PROJECT SCOPE ALLOWS.

RECONSTRUCTION PROJECTS: ON FULL PAVEMENT REPLACEMENT PROJECTS "TABLING" OF ENTIRE CROSSWALK SHALL OCCUR WHEN FEASIBLE.

MILL & OVERLAY PROJECTS: "TABLING" OF FLOW LINES, IN FRONT OF THE PEDESTRIAN RAMP, IS REQUIRED WHEN THE EXISTING FLOW LINE IS GREATER THAN 2%. WARPING OF THE BITUMINOUS PAVEMENT CAN NOT EXTEND INTO THE THROUGH LANE. TABLE THE FLOW LINE TO 2% OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA;

FOLLOWING CRITERIA; 1) 1.0% MIN. CROSS—SLOPE OF THE ROAD 2) 5.0% MAX. CROSS—SLOPE OF THE ROAD 3) "TABLE" FLOW LINE UP TO 4% CHANGE FROM EXISTING SLOPE IN FRONT OF PEDESTRIAN RAMP 4) UP TO 2% CHANGE IN FLOW LINE FROM EXISTING SLOPE BEYOND THE PEDESTRIAN CURB RAMP

STAND-ALONE ADA RETROFITS: FOLLOW MILL & OVERLAY CRITERIA ABOVE HOWEVER ALL PAVEMENT WARPING IS DONE WITH BITUMINOUS PATCHING ON BITUMINOUS ROADWAYS AND FULL-DEPTH APRON REPLACEMENT ON CONCRETE ROADWAYS.

RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS. RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA;

1) 1.0% MIN. AND 5.0% MAXIMUM CROSS—SLOPE OF THE ROAD

2) 1.0% MIN. FLOW LINE (ON EITHER SIDE OF PEDESTRIAN RAMP) TO MAINTAIN POSITIVE DRAINAGE

3) 5.0% RECOMMENDED MAX. FLOW LINE

4) LONGITUDINAL THROUGH LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15' HORIZONTAL

SAWCU^{*} CURB AND GUTTER T/2 CURB AND GUTTER REINFORCEMENT PROPOSED PAR CURB AND GUTTER CURB RAMP REINFORCEMENT DETAILS 24 LANDING LANDING

- 1 TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET FOR ALL SEPARATELY POURED INITIAL LANDINGS.
- ② DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) AT 36" MAXIMUM CENTER TO CENTER MINIMUM 12" SPACING FROM CONSTRUCTION JOINTS. BARS TO BE ADJUSTED TO MATCH RAMP GRADE. BARS TO BE PAID BY EACH.
- 3 DRILL AND GROUT 2 NO. 4 X 12" LONG (6" EMBEDDED) REINFORCEMENT BARS (EPOXY COATED). REINFORCEMENT REQUIRED FOR ALL CONSTRUCTION JOINTS. BARS TO BE PAID BY EACH.
- (4) THIS CURB LINE REINFORCEMENT DETAIL SHALL BE USED ON BITUMINOUS ROADWAYS. FOR CONCRETE ROADWAYS, SEE NOTE 6.
- (5) CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.
- (6) USE AN APPROVED TYPE F (1/4 INCH THICK) SEPARATION MATERIAL. SEPARATION MATERIAL SHALL MATCH FULL HEIGHT DIMENSION OF ADJACENT CONCRETE.



STANDARD PLAN 5-297.250 | 6 OF 6 APPROVED: 11-04-202 THOMAS STYRBICKI STATE DESIGN ENGINEER

REVISED:

PEDESTRIAN CURB RAMP DETAILS

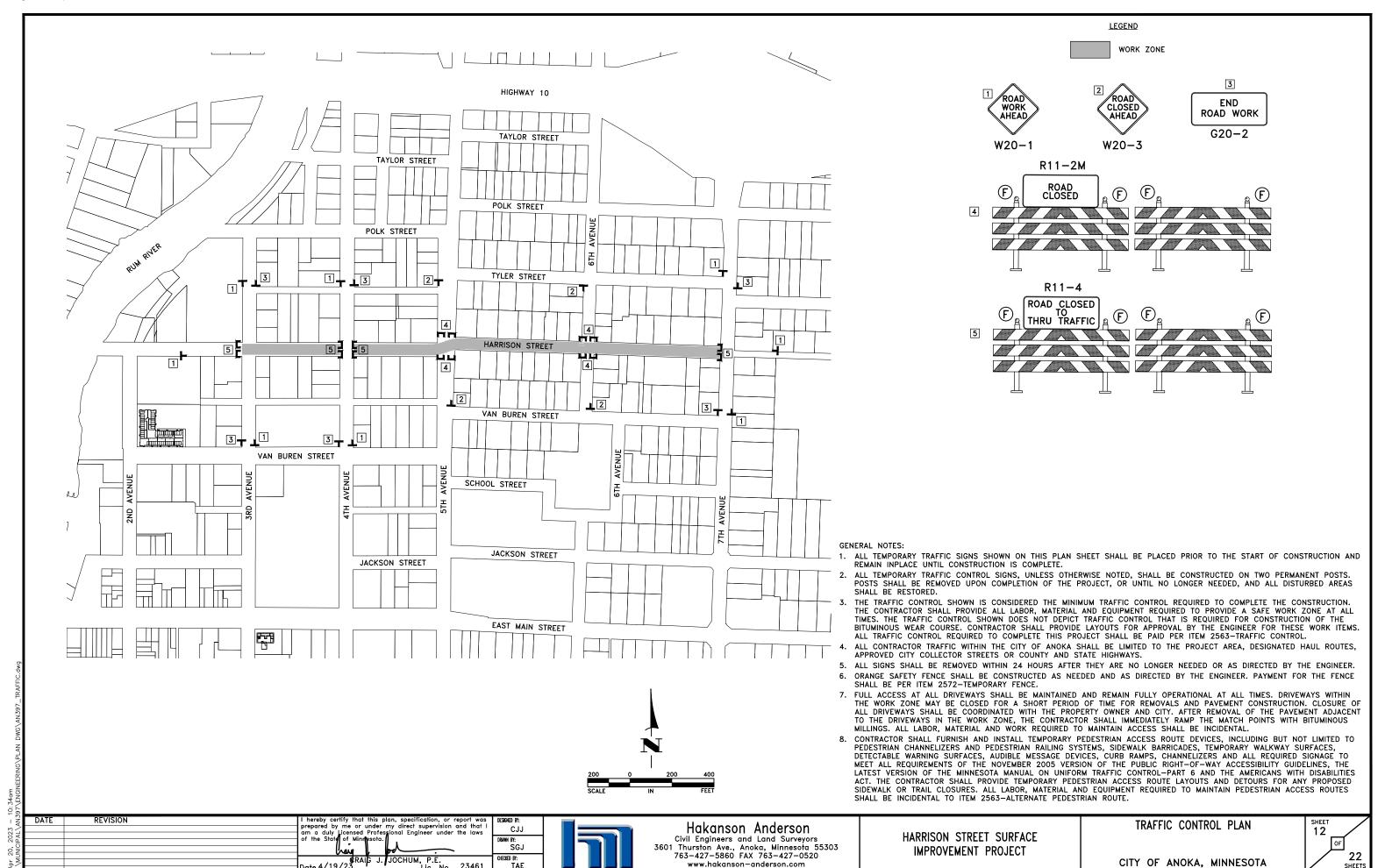
36" MA

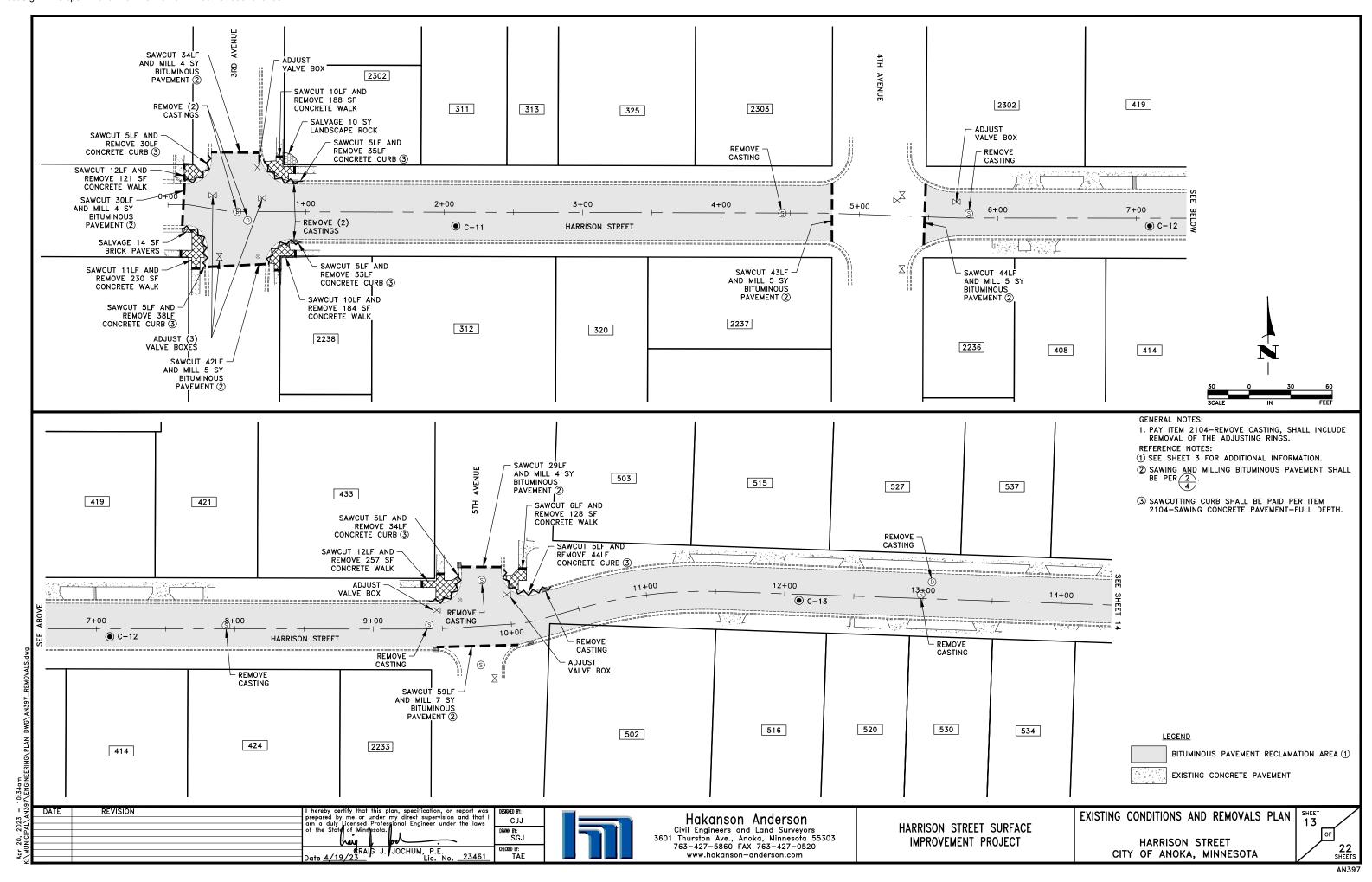
SEPARATE LANDING 12 POUR REINFORCEMENT

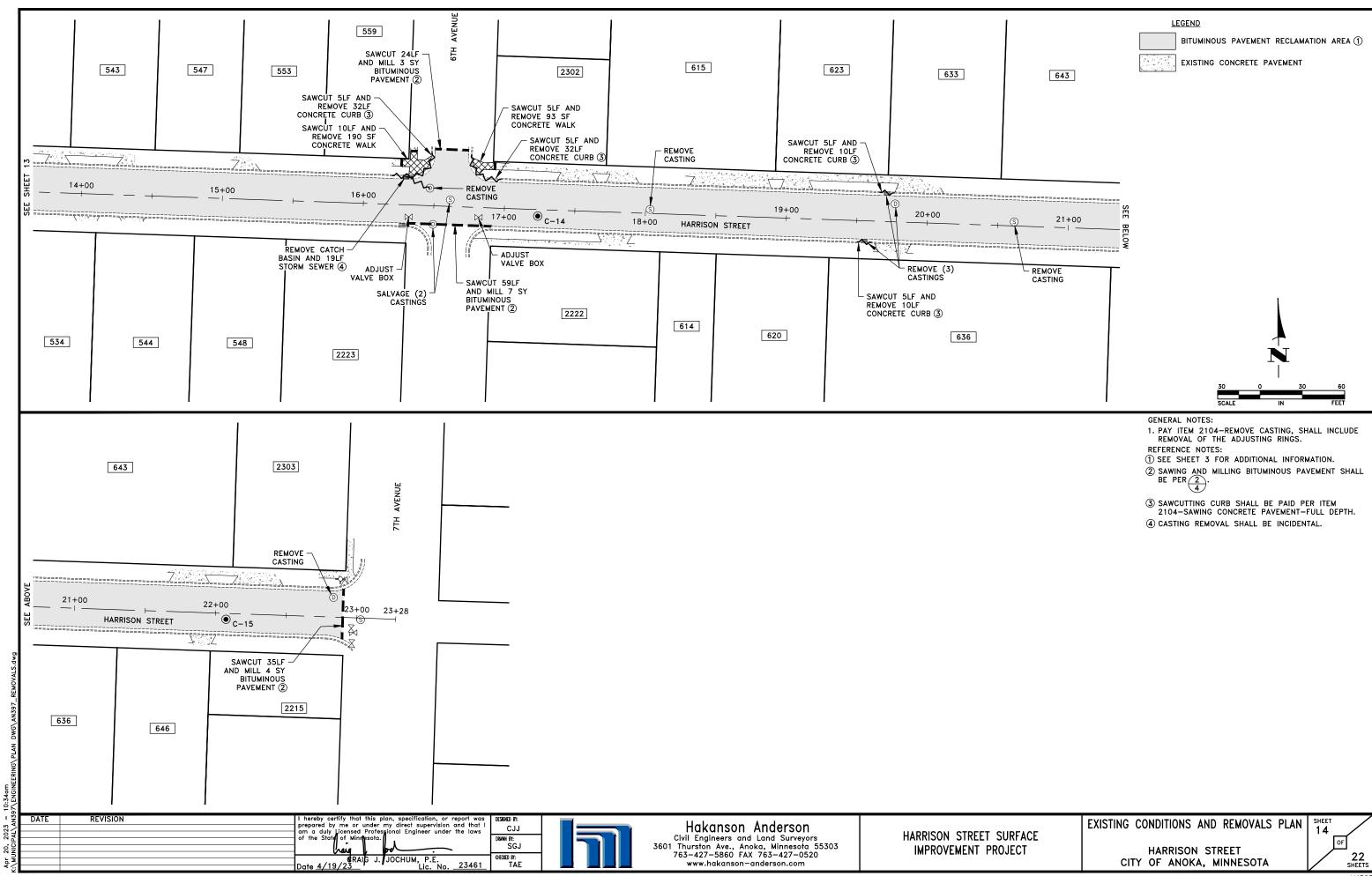
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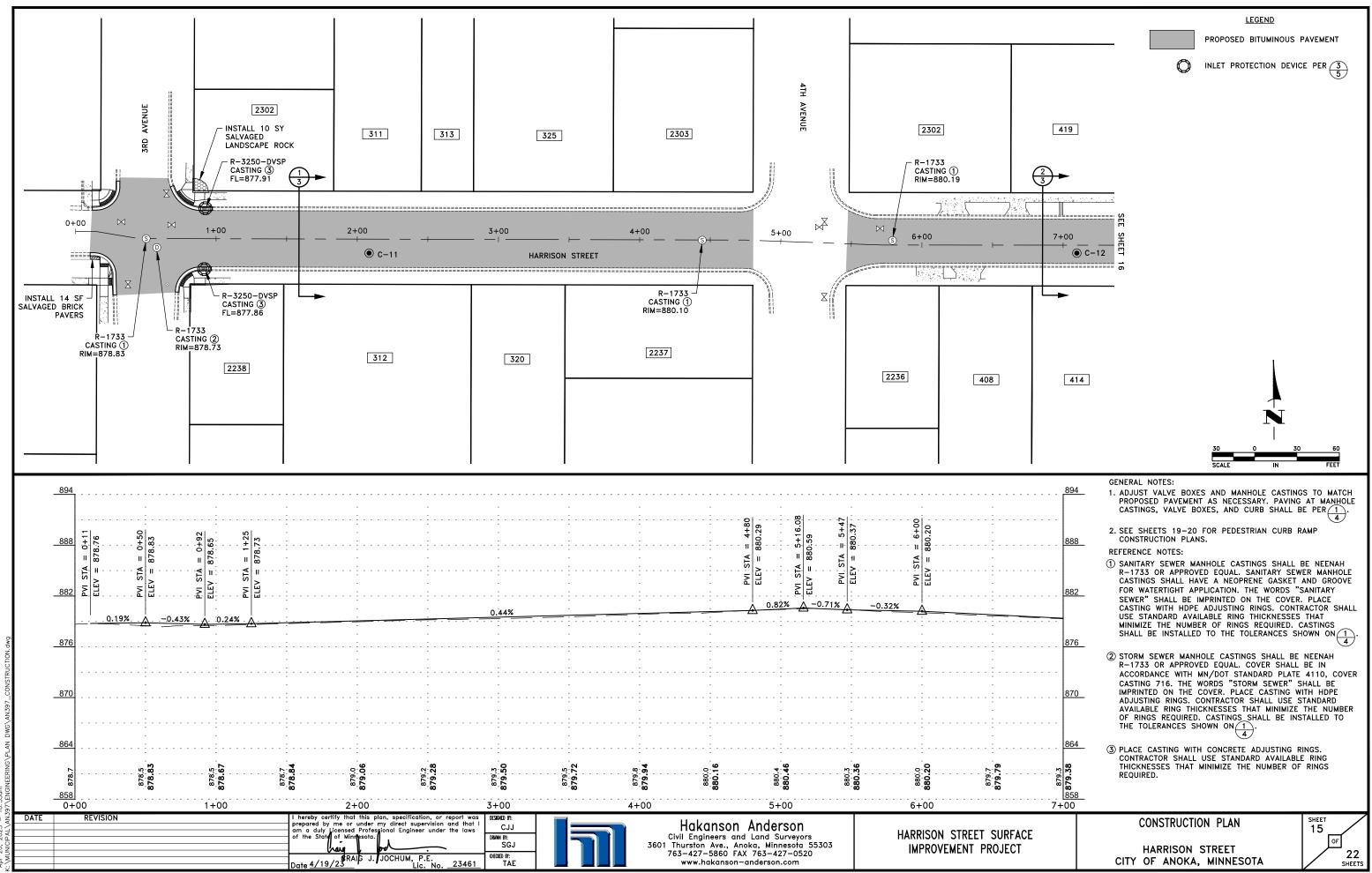
SHEET NO. 11 OF 22 SHEETS

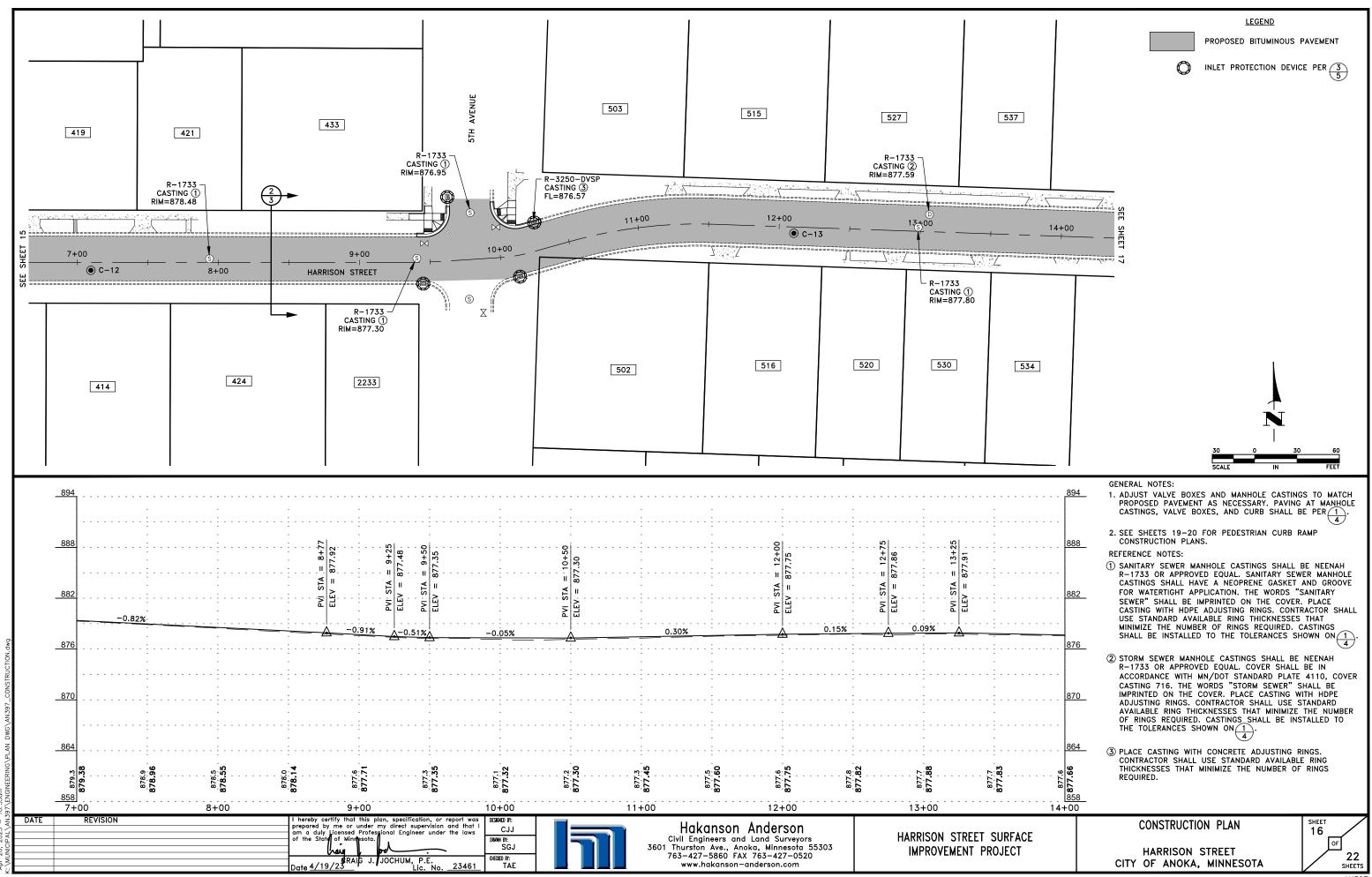
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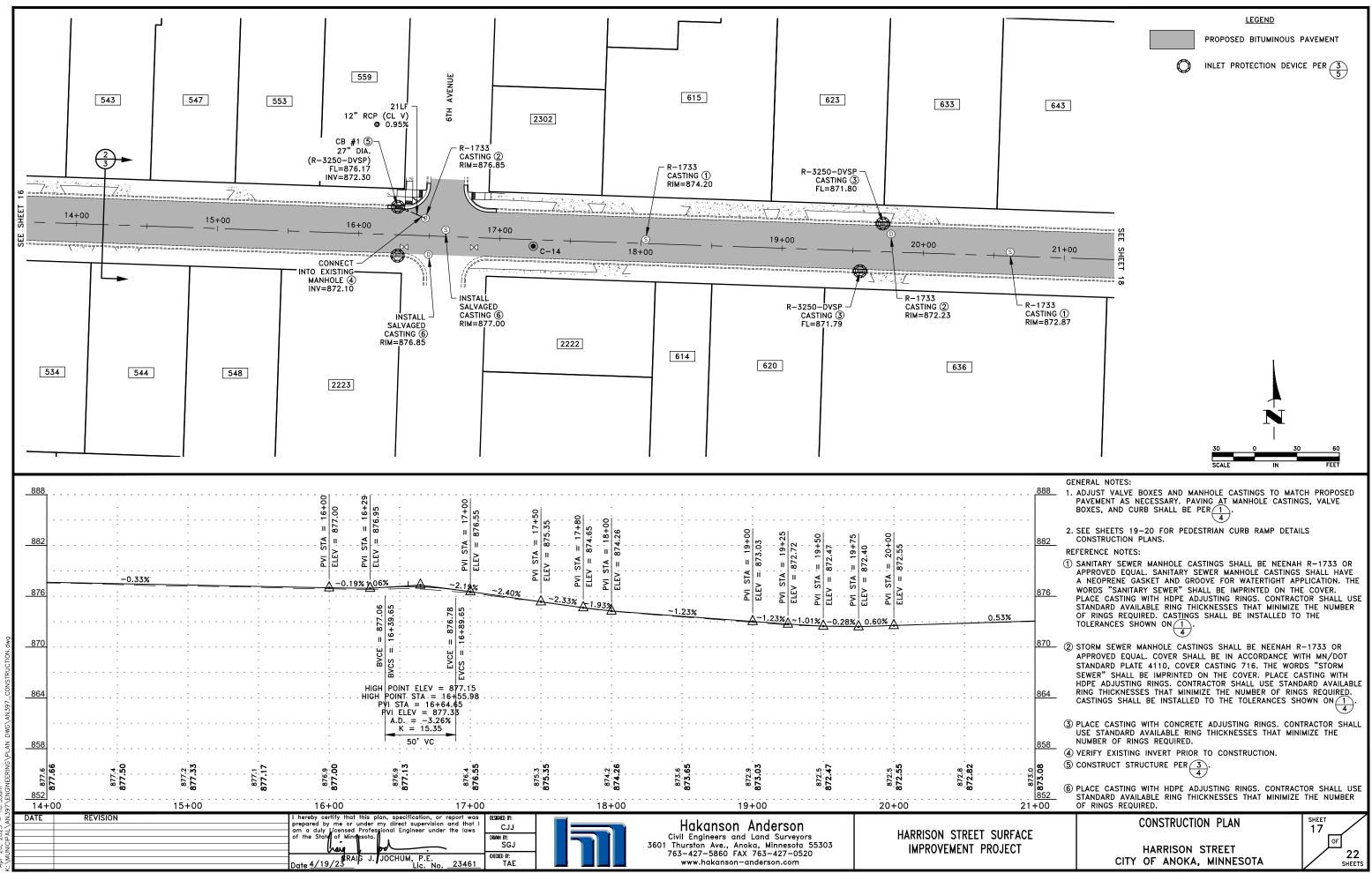


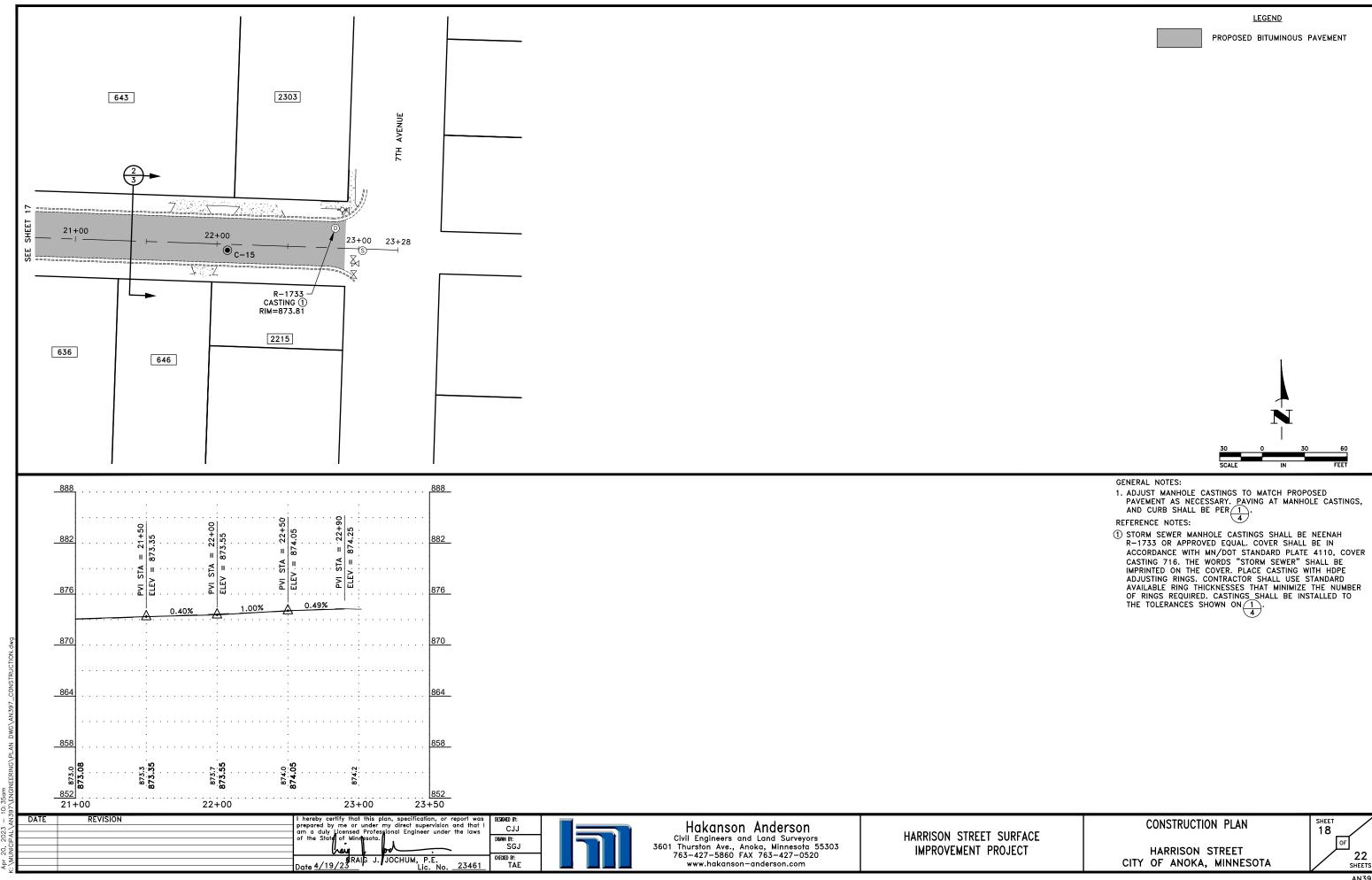


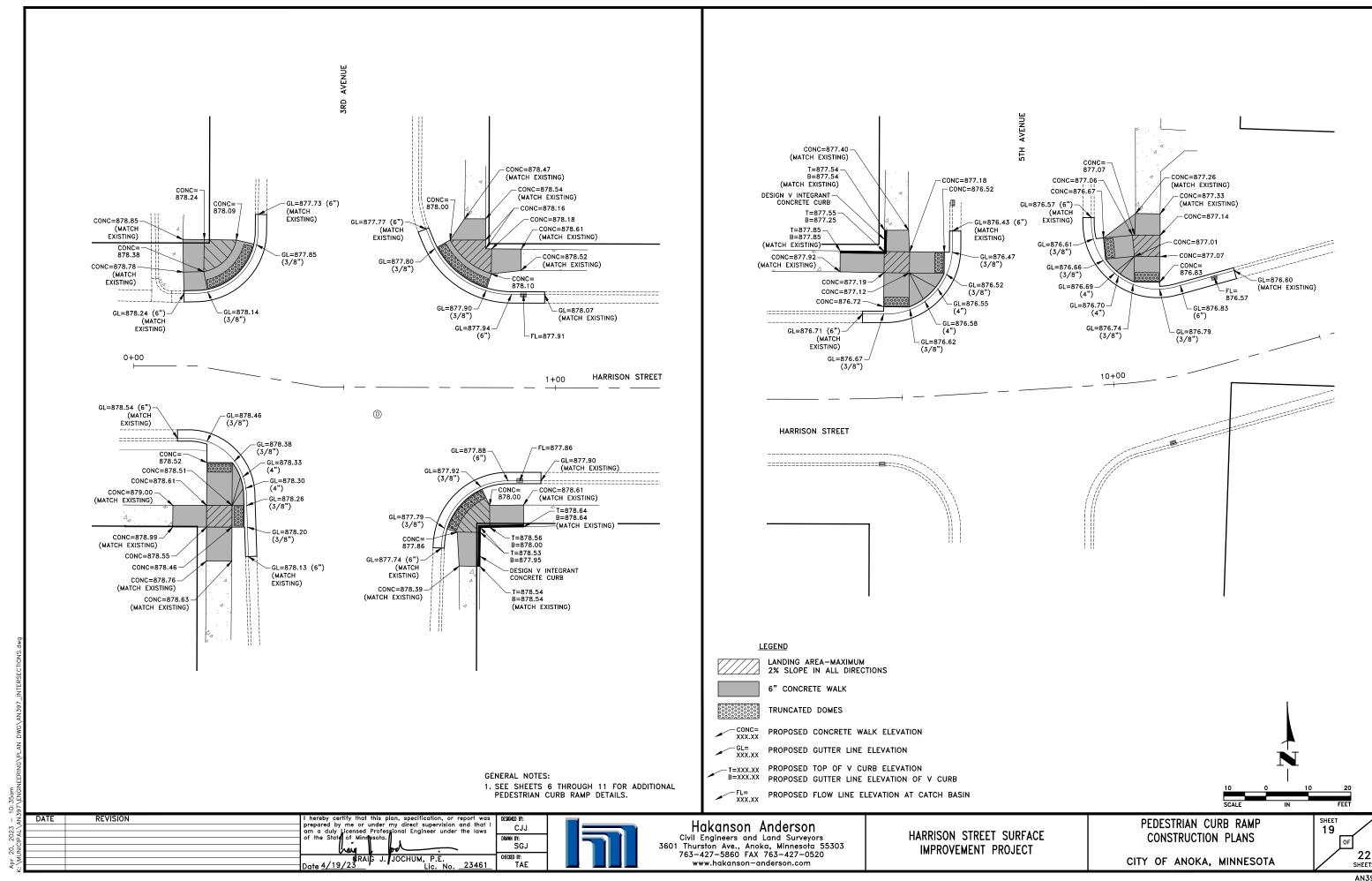


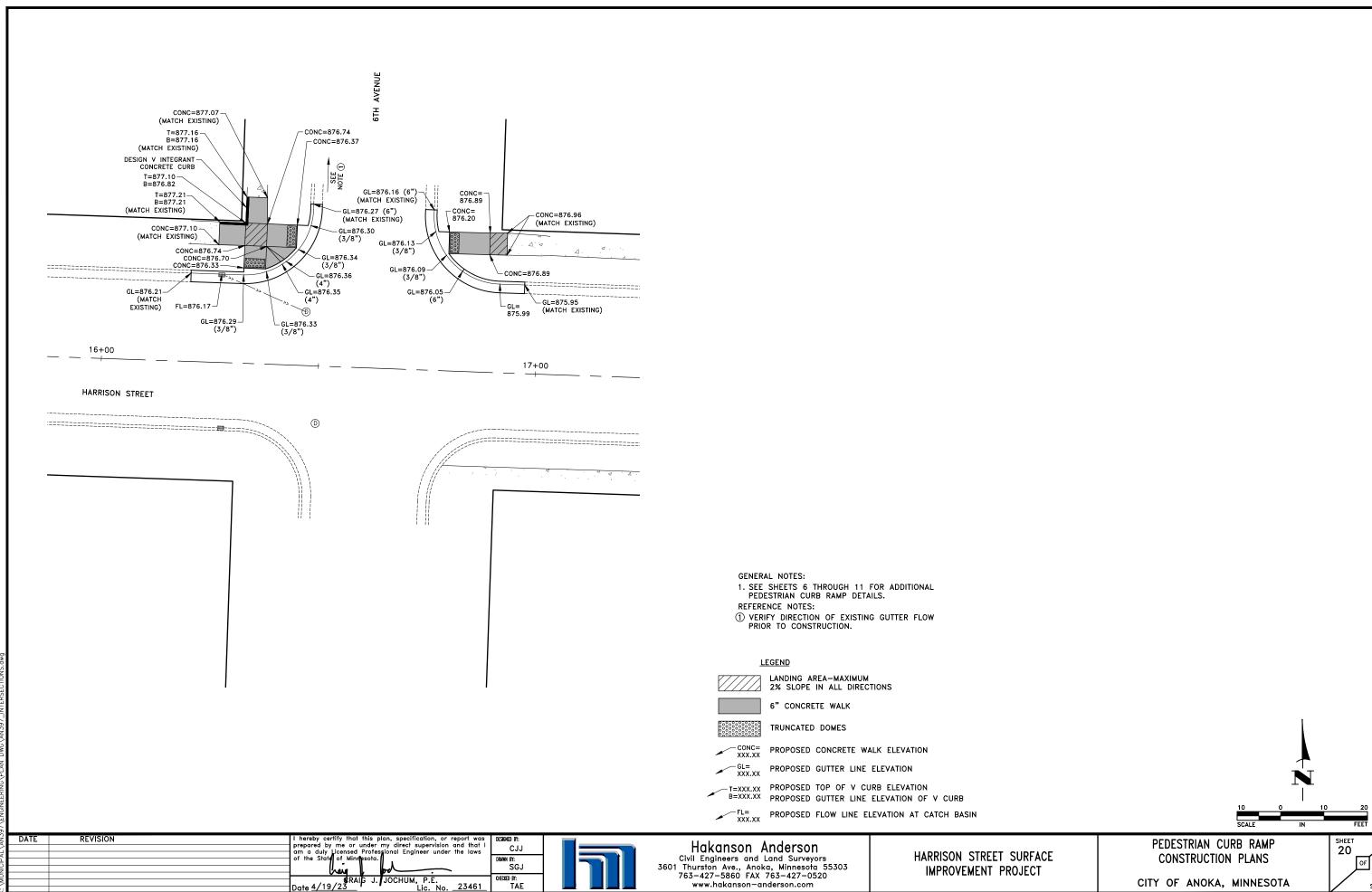


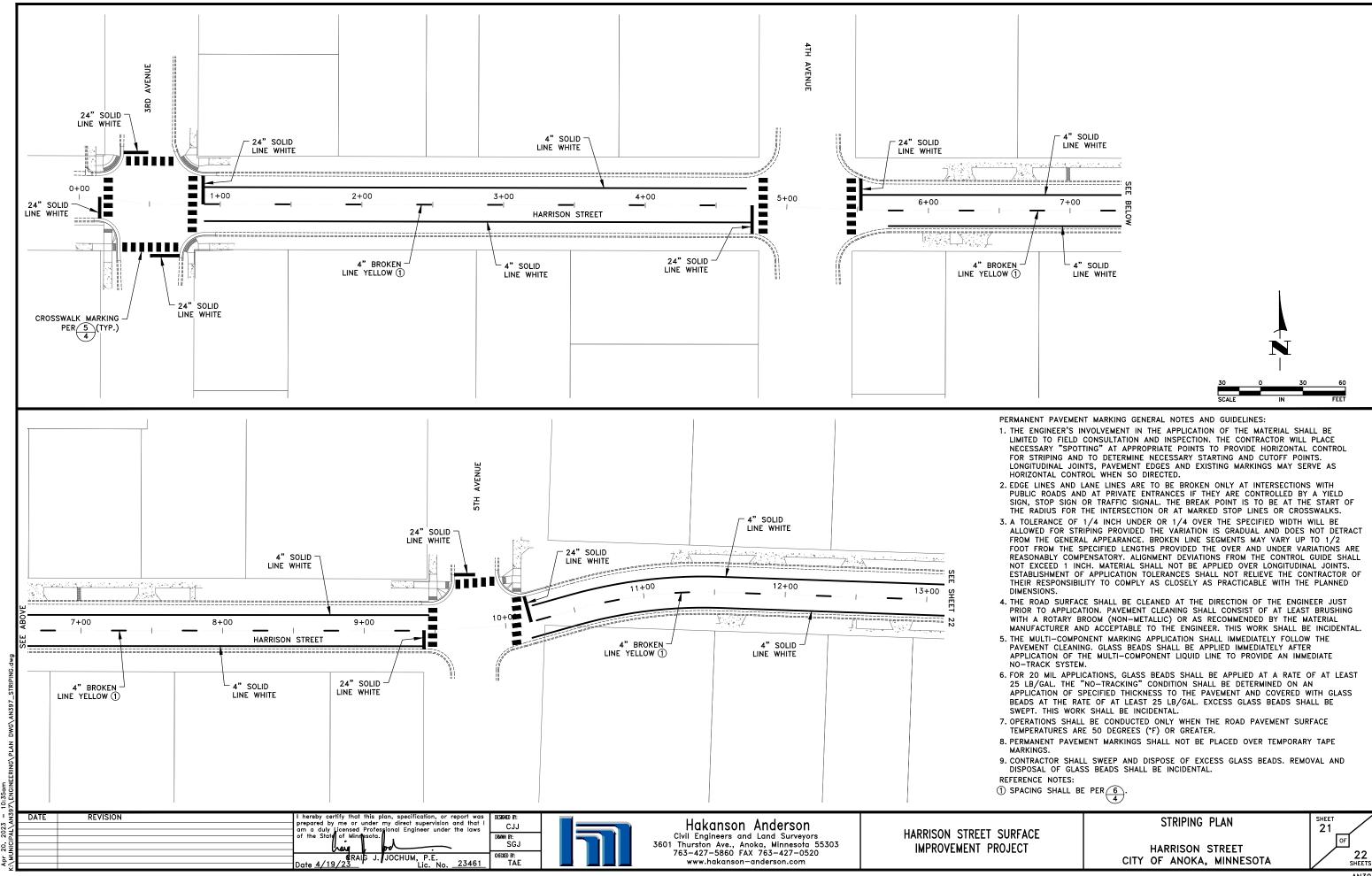


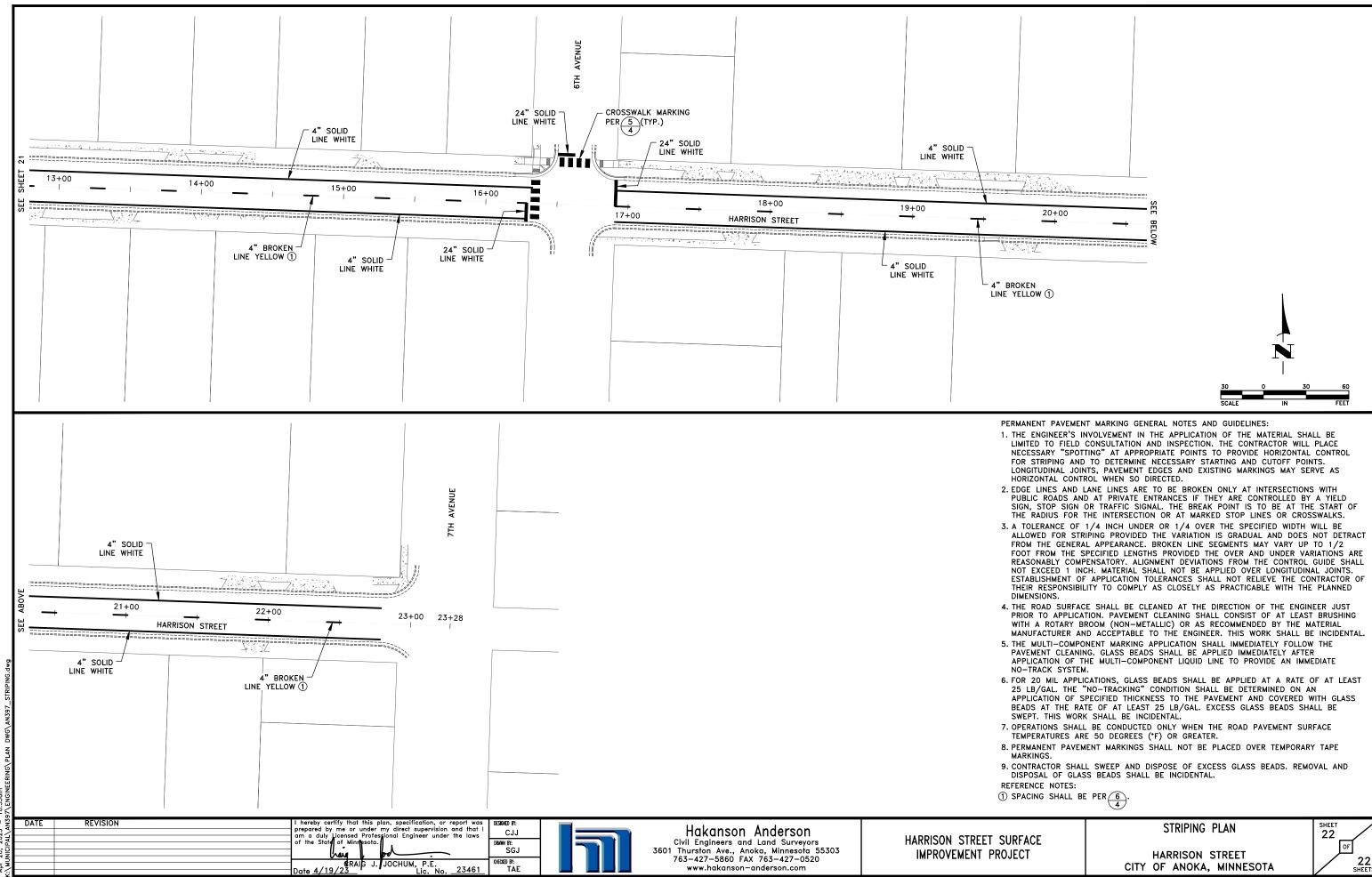


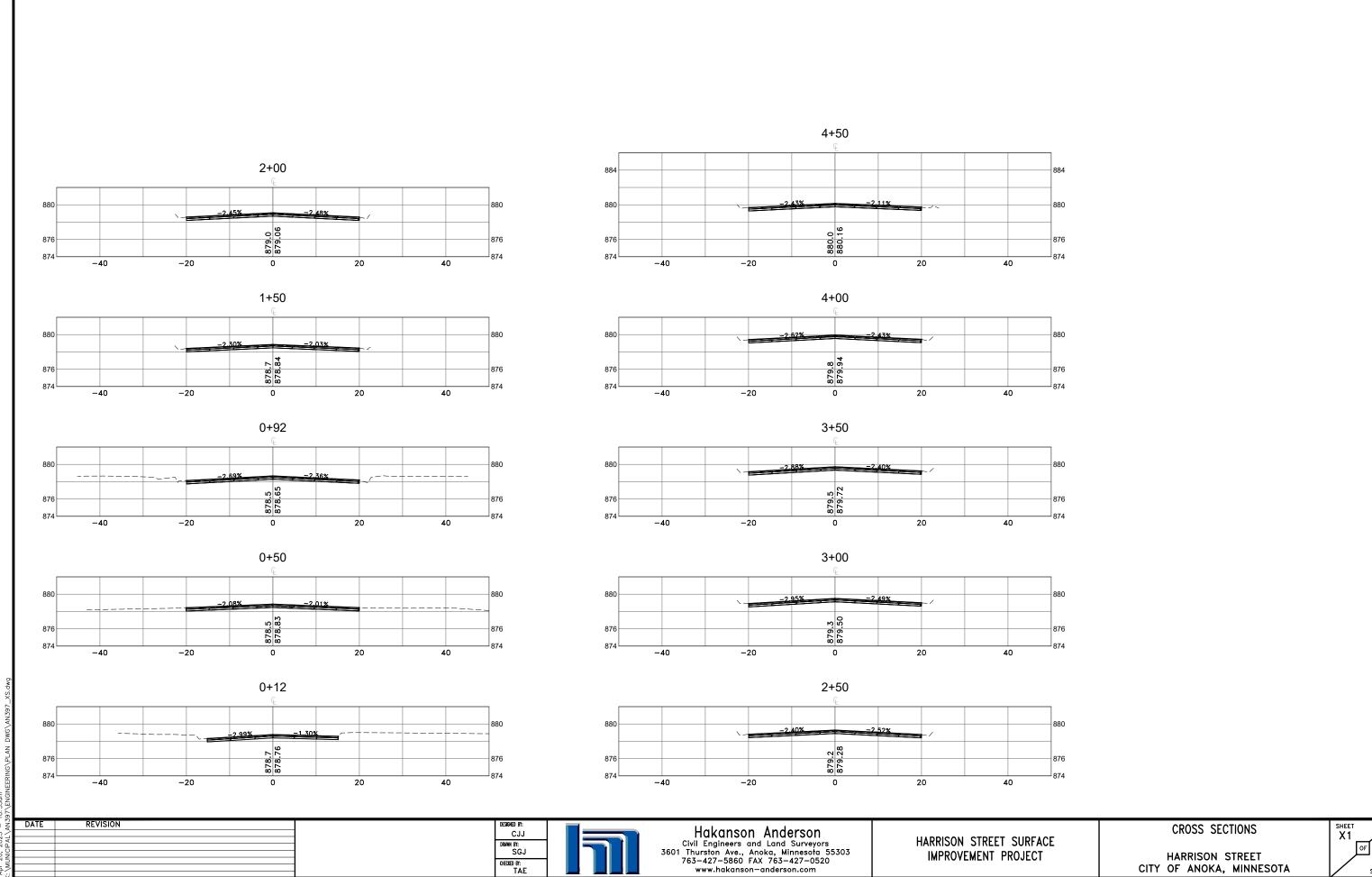


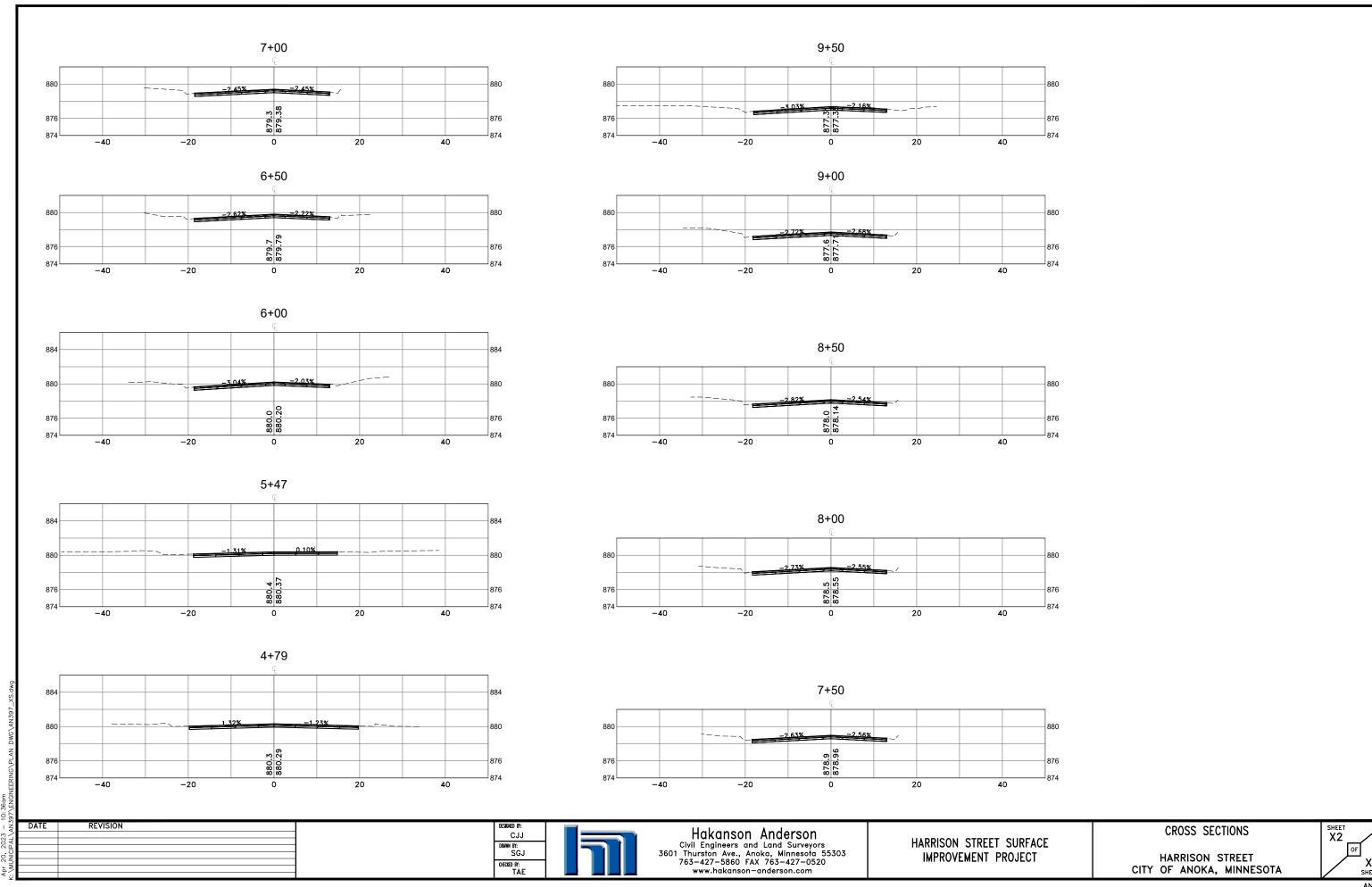


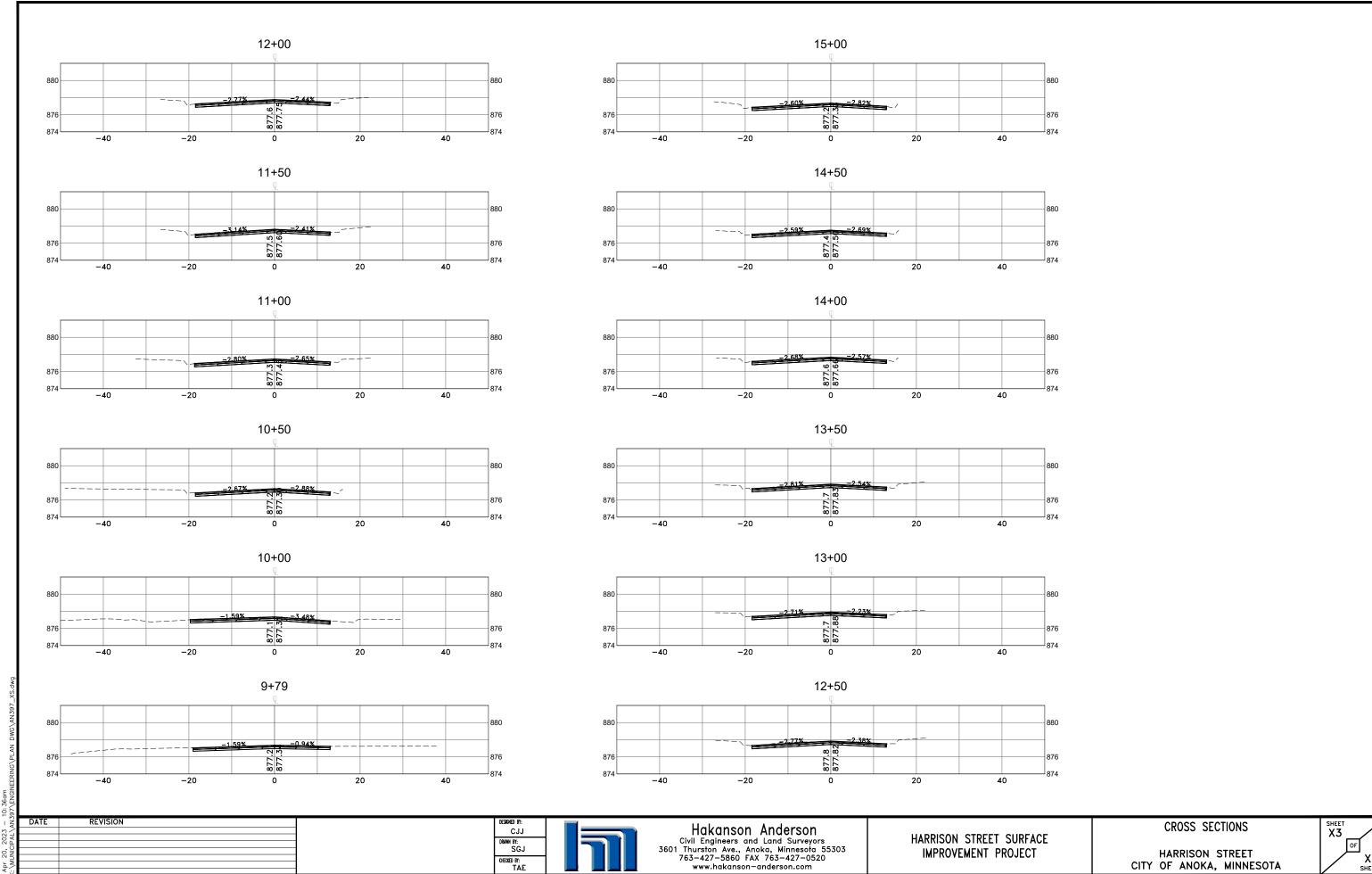


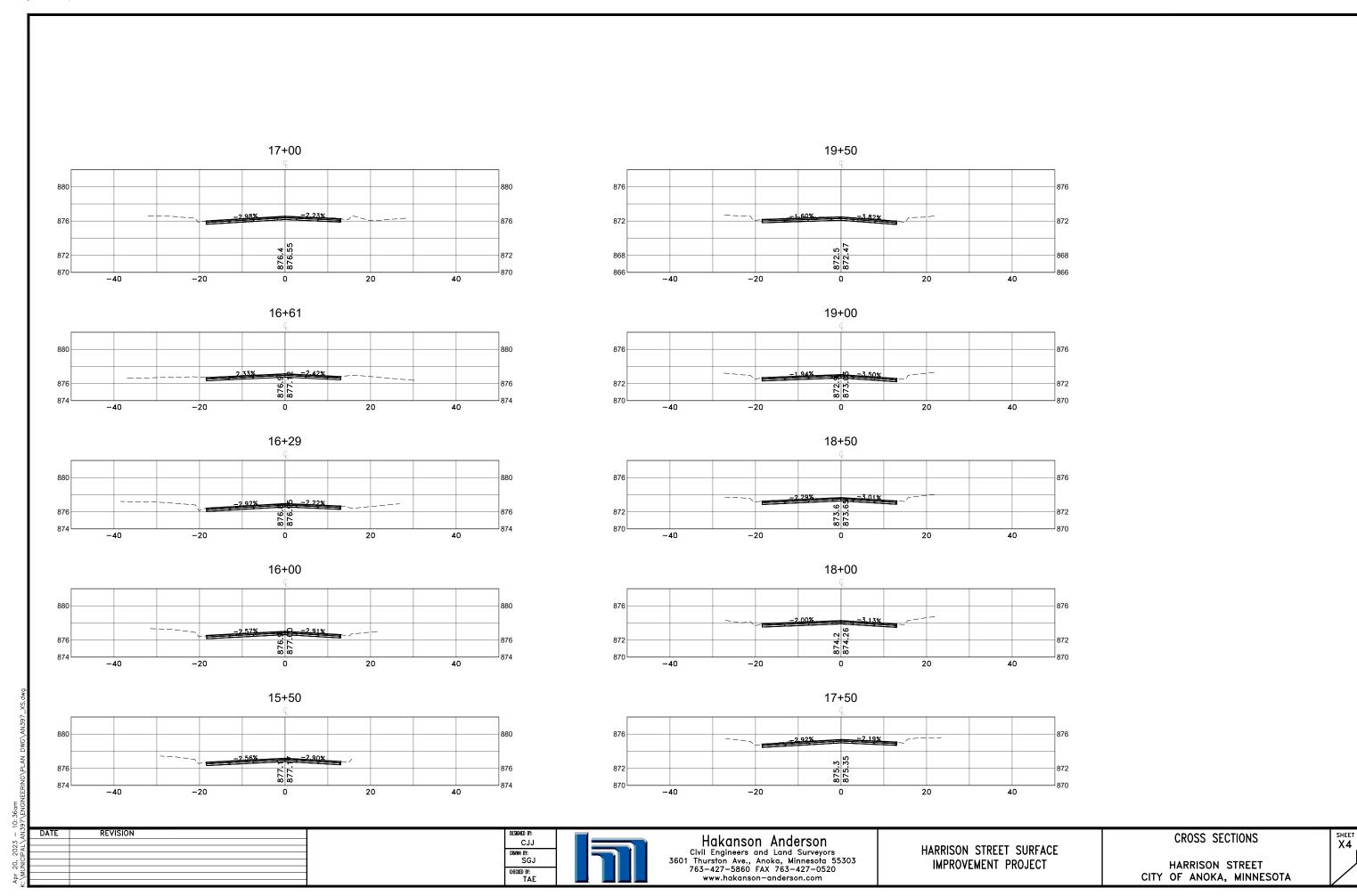


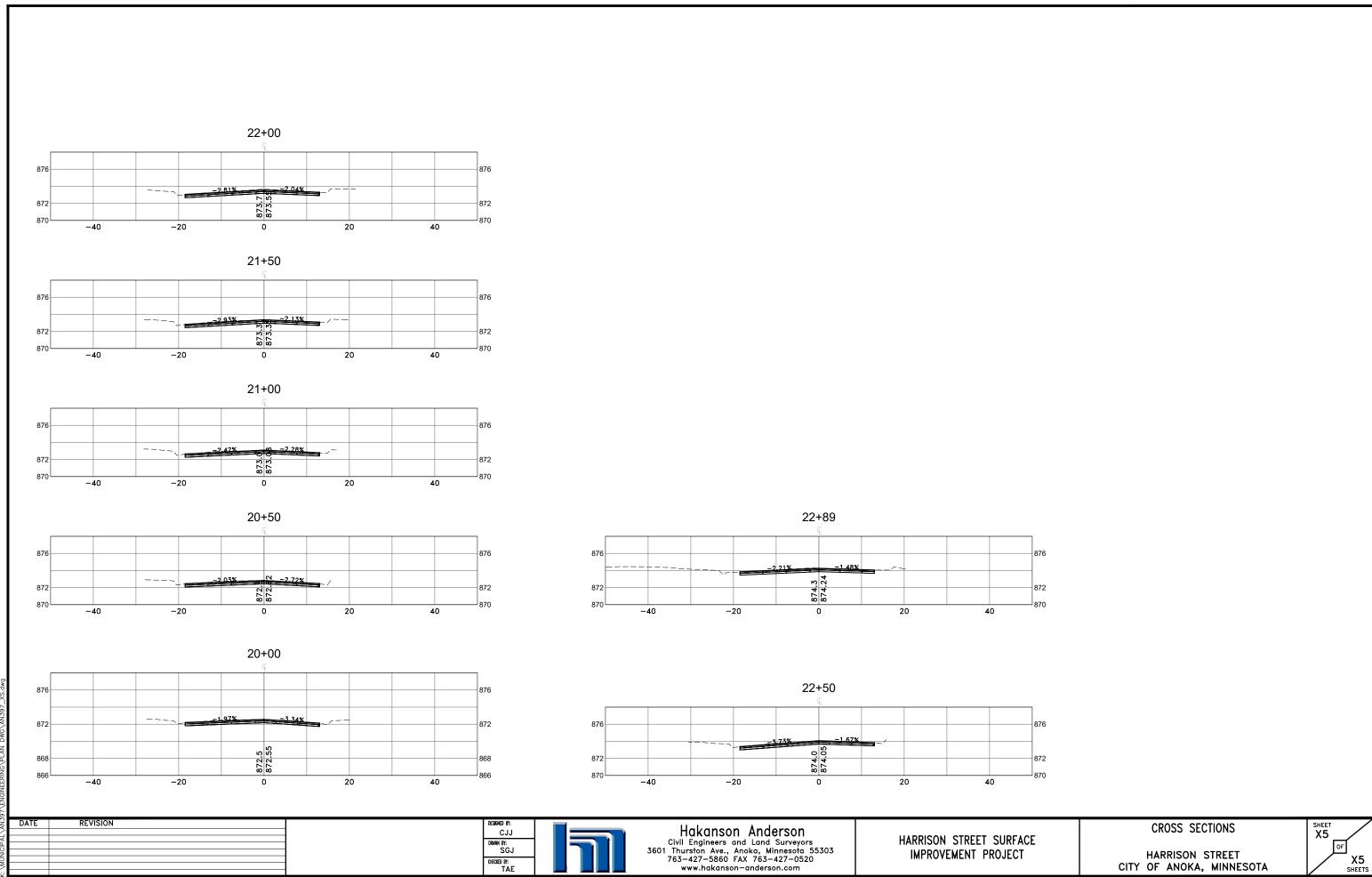


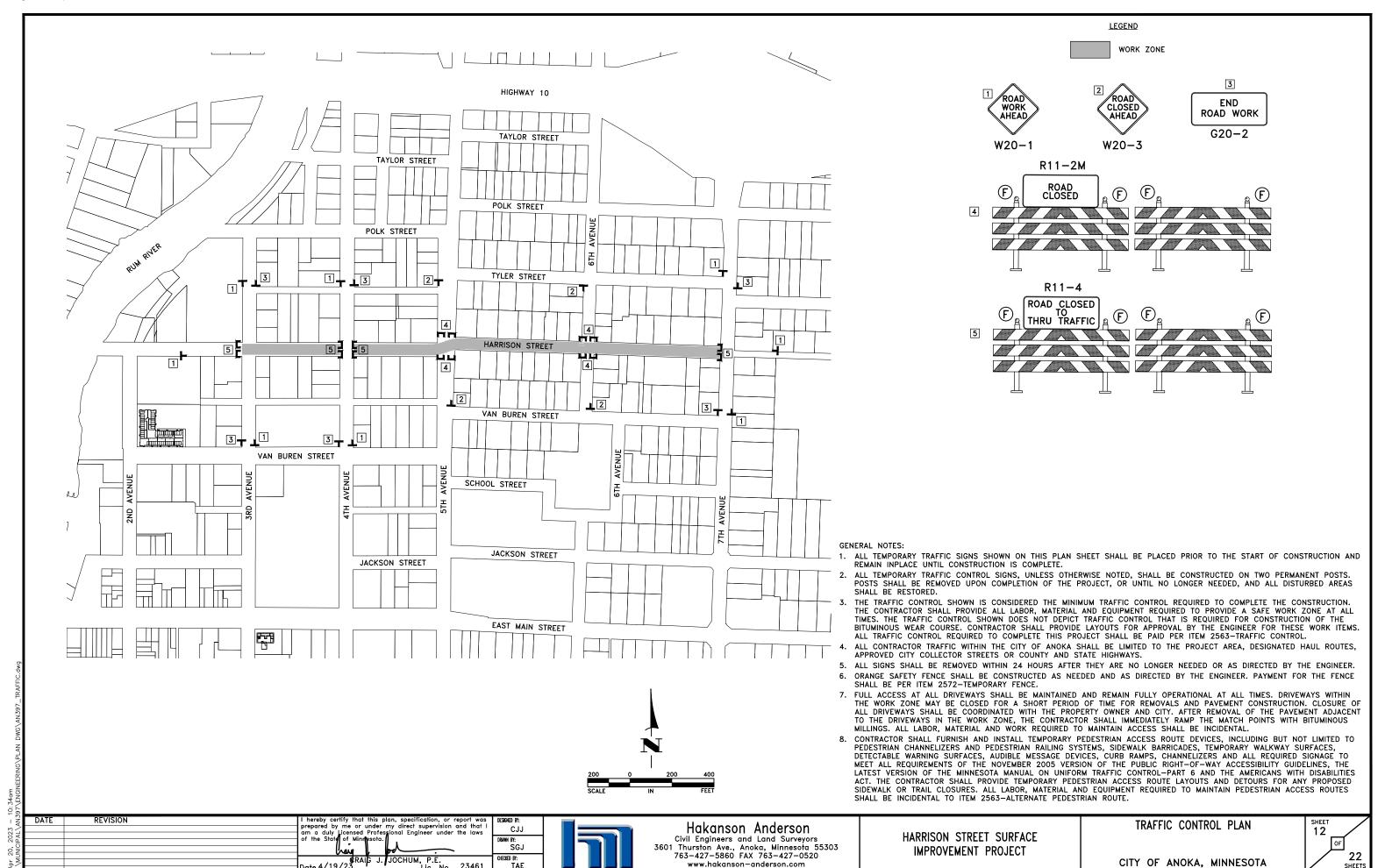












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Susan Burgmeier

Susan.Burgmeier@co.anoka.mn.us Associate Traffic Technician

Anoka County

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