



THE WATERFRONT

CITY OF RAMSEY
RAMSEY, MN 55303

PROJECT NO. 20-54

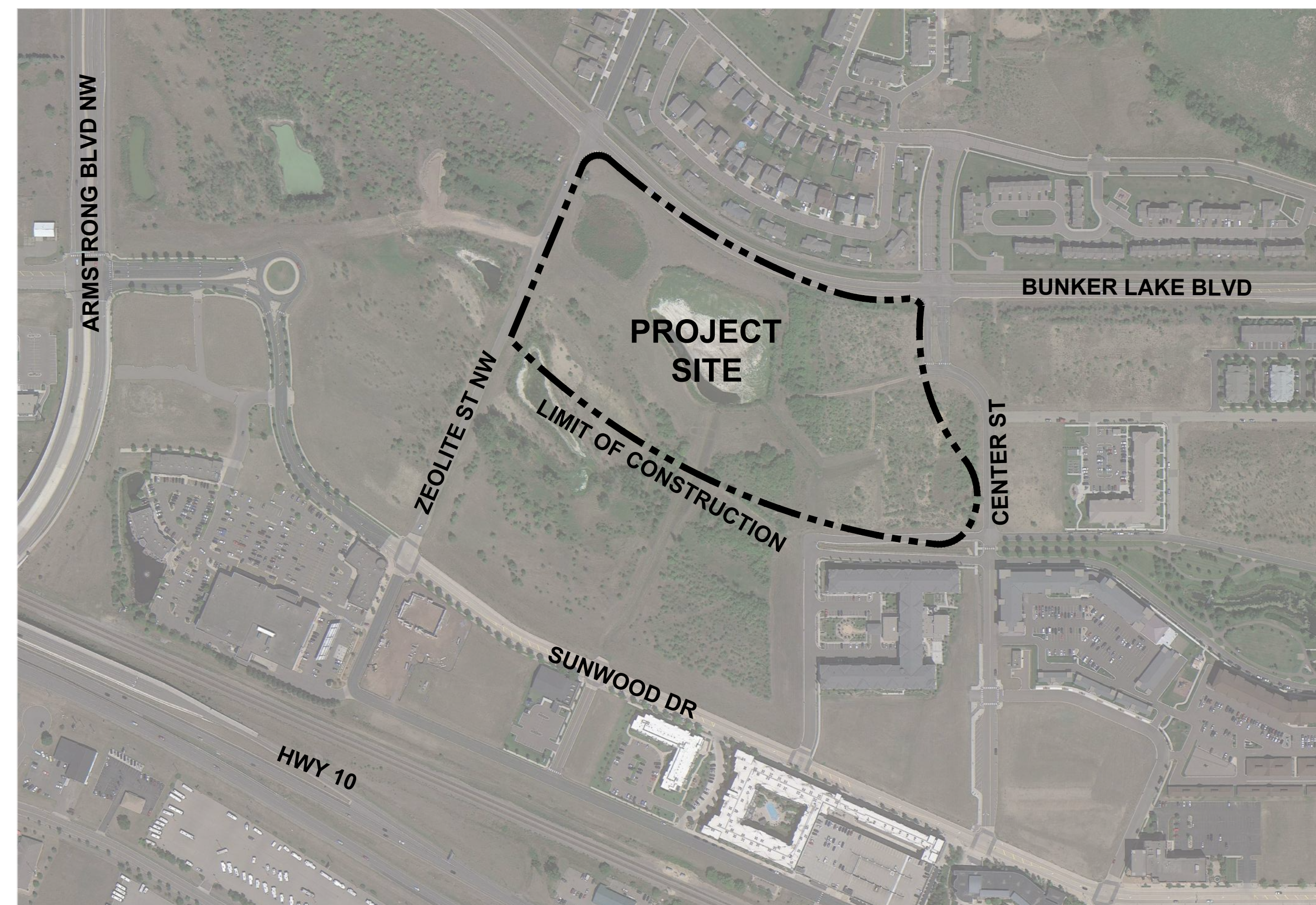
100% EARTHWORK, UTILITIES & TRAIL PAVING PLAN CONSTRUCTION DRAWINGS

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REHDER
& ASSOCIATES, INC.
Civil Engineers & Land Surveyors

PROJECT # 23-176

CONTEXT MAP



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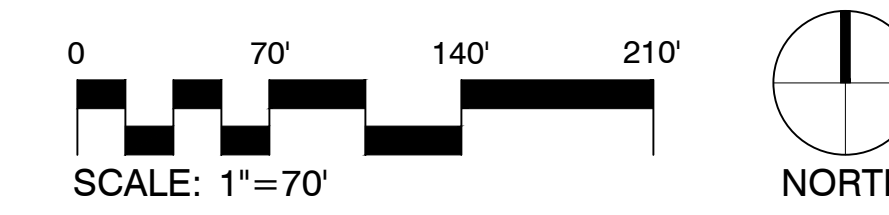
Sheet Number	Sheet Title
G000	COVER SHEET
G001	EXISTING CONDITIONS
G002	NOTES, ABBREVIATIONS & SYMBOLS
C101	GRADING & EROSION CONTROL PLAN
C102	GRADING & EROSION CONTROL PLAN
C103	MNDOT STANDARD DETAILS
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L110	SITE MATERIALS PLAN
L500	SITE DETAILS

NOTES	ITEM NUMBER	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
		Mobilization	LS	1
		Rock Construction Entrance	Each	1
Incidental		Saw Cutting Pavement	LF	20
		Common Excavation & Berm Grading	LS	1
		Boulder Retaining Wall	SF	475
		Class 3 (Crushed Granite)	CY	40
		Class 5 Aggregate Base (Med.)	Ton	1,080
		SPWEA340C Bituminous Wear Coarse	Ton	500
		Storm Sewer (Culvert & Adjust Casting)	LS	1
		Traffic Control	LS	1
		Erosion Control (Silt Fence)	LF	4,840
		Site Seeding	AC	1.95
		EC Blanket Category 20	SY	2,530



01 SITE ORIENTATION PLAN
1" = 50'-0"

GOVERNING SPECIFICATIONS:
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.



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EARTHWORK, UTILITIES & TRAIL PAVING

THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MINNESOTA

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

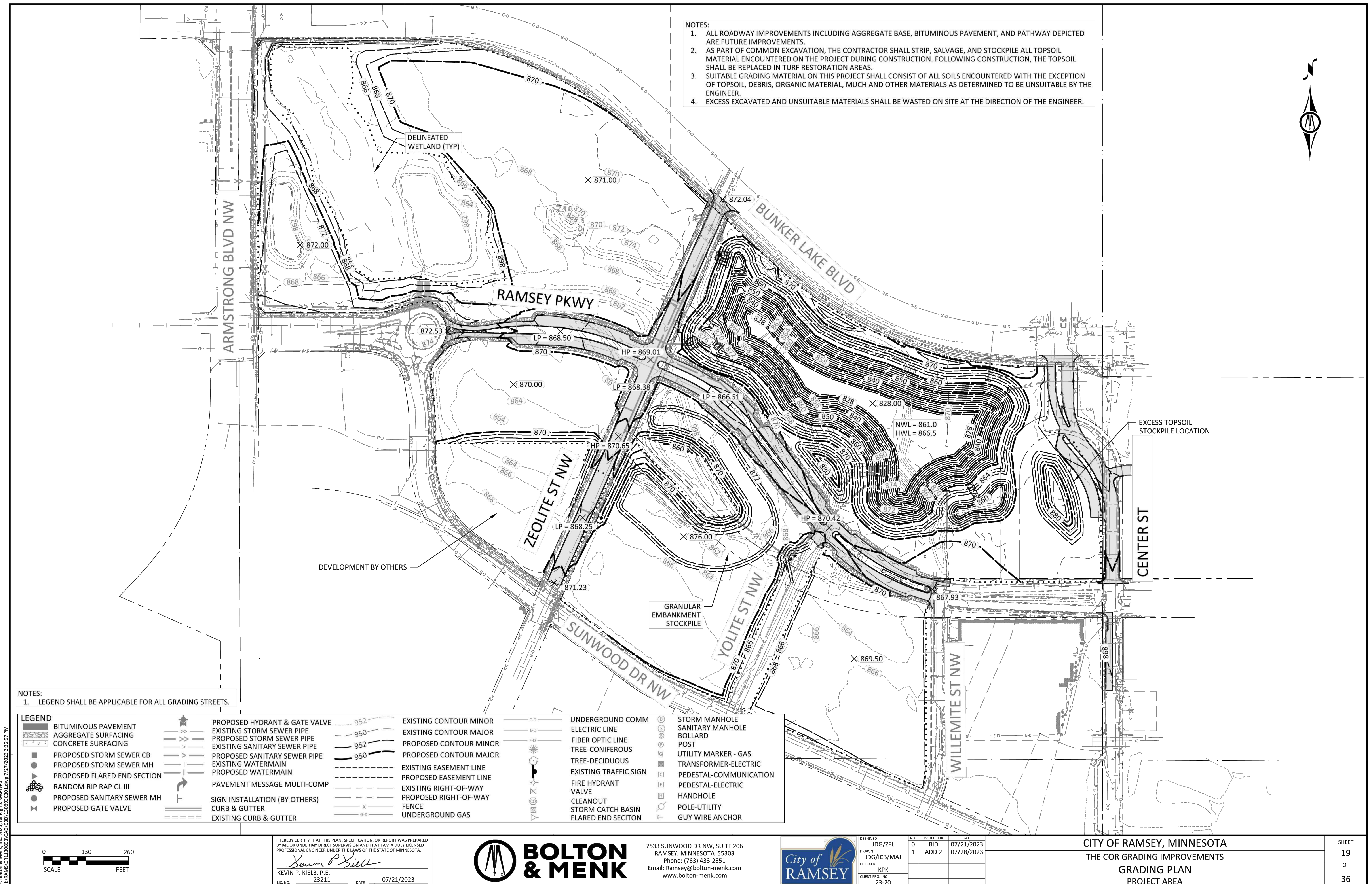
Name: Charles Evens
Registration#: 50575
Signature: *Charles Evens*
Date: 04/05/2024

Date: 04/05/2024
DF/ Project #: 23-176
Scale: AS SHOWN
Drawn/Checked: AG/CE

REVISION: --

COVER SHEET

G000



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THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MINNESOTA

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

Name: Charles Evans
Registration#: 50575
Signature: *Charles Evans*
Date: 04/05/2024

Date: 04/05/2024
DF/ Project #: 23-176
Scale: AS SHOWN
Drawn/Checked: AG/CE

REVISION

EXISTING CONDITIONS

G001

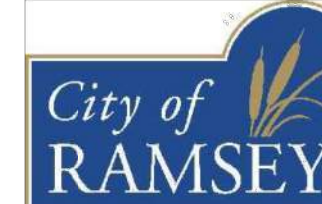


I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kevin P. Kiehl
KEVIN P. KIEHL, P.E.
LIC. NO. 23211 DATE: 07/21/2023



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DESIGNED	JDG/ZFL	NO.	0	DATE	07/21/2023
DRAWN	JDG/CB/MAJ	ADD	1	DATE	07/28/2023
CHECKED	KPK				
CLIENT PROJ. NO.	23-20				

CITY OF RAMSEY, MINNESOTA
THE COR GRADING IMPROVEMENTS
GRADING PLAN
PROJECT AREA

SHEET
19
OF
36

GENERAL PROJECT NOTES

CONTRACT DOCUMENTS

1. THE WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS.
2. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY. READ THE DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND EXECUTE THE WORK.
3. THE WORK IS DEPENDENT ON SEVERAL DISCIPLINES. READ THE DRAWINGS BY CROSS-REFERENCING BETWEEN DISCIPLINES.
4. REPORT DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THE WORK.

SITE ACCESS & PROTECTION

1. STAGING AREA IS WITHIN THE CONTRACT LIMIT (OR "PROJECT LIMITS") LINE. STAGING AREA DOES NOT INCLUDE ACCESS ROUTES TO THE SITE. THE CONSTRUCTION (AND REMOVAL) OF TEMPORARY STAGING AREAS AND/OR ACCESS ROUTES SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE.
2. CONSTRUCTION RELATED VEHICLES REQUIRED FOR THE WORK EXITING AND/OR ENTERING THE SITE SHALL NOT DEPOSIT DIRT, MUD, OR OTHER DELETERIOUS MATERIALS THAT WOULD PRESENT A NUISANCE OR HAZARD TO THE PUBLIC TRAVELING ON RIGHT OF WAYS. PREVENTION AND CLEANING SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE.
3. NO WORK, EQUIPMENT OR STAGING IS PERMITTED OUTSIDE THE LIMIT LINES UNLESS THE CONTRACTOR HAS APPROVAL FROM AUTHORITIES. COORDINATION PERMITS AND TRAFFIC CONTROL REQUIRED SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE.
4. THE DOCUMENTS DO NOT SPECIFY SAFETY MATERIALS, EQUIPMENT, METHODS OR SEQUENCING TO PROTECT PERSONS AND PROPERTY. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY AND EXPENSE TO DIRECT AND IMPLEMENT SAFETY OPERATIONS TO PROTECT PERSONS AND PROPERTY.

QUALITY ASSURANCE

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

EXISTING CONDITIONS SURVEY

1. THE DOCUMENTS ARE BASED ON THE FOLLOWING TOPOGRAPHIC SURVEY:
 - TOPOGRAPHIC SURVEY BY BOLTON & MENK, 2003
2. SURVEYED UNDERGROUND UTILITIES ARE PROVIDED FOR INFORMATION ONLY AS THEY ARE INFERRED BY SURFACE MARKINGS AND FEATURES AND AS SUCH MAY NOT BE ACCURATE OR COMPLETE.

UTILITIES

1. THE LOCATIONS AND SIZES OF EXISTING UTILITIES (IF SHOWN) ARE APPROXIMATE ONLY. IDENTIFY, LOCATE AND PROTECT UNDERGROUND AND OVERHEAD UTILITIES TO REMAIN.
2. COORDINATE WITH THE LOCAL UTILITY COMPANIES AND/OR AGENCIES. CALL LOCAL 811 OR REQUEST LOCATES ONLINE NO LESS THAN 48 HOURS PRIOR TO DIGGING TO LOCATE UNDERGROUND UTILITIES OR AS REQUIRED BY LOCAL REGULATIONS.
3. BE FULLY RESPONSIBLE FOR THE COST OF DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO ACCURATELY LOCATE AND/OR RETAIN UTILITIES TO REMAIN.

LAYOUT

1. THE VERTICAL CONTROL FOR THE PROJECT IS: NORTH AMERICAN VERTICAL DATUM (NAV88) OR NATIONAL GEODETIC DATUM (NGDV29) UNLESS OTHERWISE NOTED.
2. VERIFY THE LOCATION OF EXISTING FEATURES TO REMAIN THAT CONNECT TO NEW WORK, DIMENSIONAL CLEARANCES, SETBACKS AND OFFSETS AND VERTICAL DATUM. REPORT DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
3. VERIFY PREVIOUS UNDERLYING TRADEWORK CONFORMS TO THE DOCUMENTS PRIOR TO PROCEEDING WITH OVERLYING TRADEWORK. REPORT DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
4. GENERAL CONTRACTOR SHALL RETAIN SURVEY CONTROL FOR LAYOUT OF THE WORKS AND AS-BUILT SURVEYS.
5. COORDINATE AND COLLATE SUBCONTRACTOR'S SURVEYS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING SITE CONDITIONS AND EVOLVING SITE CONDITIONS PRIOR TO THE START OF SITE WORK. DISCREPANCY AND/OR UNFORESEEN CONDITIONS FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO STARTING THE SITE WORK. DO NOT BEGIN WORK IN SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
6. ERECT AND INSTALL ALL WORK LEVEL, PLUMB, SQUARE, TRUE, STRAIGHT AND IN PROPER ALIGNMENT.
7. DO NOT SCALE FROM DRAWINGS. USE DIMENSIONS SHOWN AND/OR SUPPLIED CAD DRAWING FILE AND SURVEY INTERPOLATION.
8. DIMENSIONS NOTED "CLR" OR "CLEAR" MUST BE STRICTLY MAINTAINED ALLOWING FOR THICKNESS OF FINISHES. FIELD VERIFY PRIOR TO CONSTRUCTION.
9. ANGLES ARE 90 DEGREES UNLESS NOTED OTHERWISE.
10. CURVES FOR PAVING, BANDS, PATHS, EDGING AND HEADER BOARDS SHALL BE SMOOTH AND CONTINUOUS WITHOUT ABRUPT CHANGES, OBVIOUS TANGENTS OR BENDS.
11. PITCH EVENLY BETWEEN SPOT GRADES AND CONTOUR LINES UNLESS GRADE BREAKS, RIDGELINES, SWALES ARE INDICATED OR OTHERWISE NOTED. PAVED AREAS SHALL PITCH AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED ON DRAWINGS. DISCREPANCIES OR CONDITIONS NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTIONS PRIOR TO CONTINUING WORK.
12. PEDESTRIAN SIDEWALKS AND PAVING SHALL HAVE A CROSS PITCH LESS THAN 2% UNLESS OTHERWISE NOTED TO MEET ADA REQUIREMENTS.

13. REQUEST A FIELD REVIEW BY THE LANDSCAPE ARCHITECT OF THE LAYOUT OF ELEMENTS AS SHOWN. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL OF LAYOUT BEFORE INSTALLING THE FOLLOWING:
 - FIRST TYPICAL SITE LIGHTING FIXTURES, JUNCTION BOXES, TRANSFORMERS.
 - FIRST TYPICAL SITE UTILITY FIXTURES, INCLUDING BUT NOT LIMITED TO BOXES, VAULTS, PULL BOXES, MAN HOLES, AIR RELEASE VALVES, VENTS, BFP, AND OTHER CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, TELECOM, HEATING/COOLING, AND IRRIGATION STRUCTURES.
 - FIRST TYPICAL FORMWORK OF WALLS.
 - TREE LOCATIONS. STAKE ALL TREE LOCATIONS. OBTAIN APPROVAL OF LANDSCAPE ARCHITECT BEFORE PLANTING TREES.
 - FIRST TYPICAL CURVED EDGING AND CUTTING.
 - FIRST TYPICAL EXPANSION JOINTS IN CONCRETE PAVING.

WORK BY OTHERS

1. COOPERATE AND COORDINATE WITH OTHER CONTRACTORS WORKING CONCURRENTLY SO AS TO NOT VIOLATE EACH OTHER'S PERMITS AND TO AVOID DAMAGE TO EACH OTHER'S WORK.
2. EACH CONTRACTOR SHALL PROTECT AND MAINTAIN THEIR OWN WORK FOR THE DURATION OF THEIR CONTRACTS.

CODE COMPLIANCE

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

CODES IN EFFECT

1. REVISIONS TO THE APPROVED AND PERMITTED DRAWINGS OR DOCUMENTS SHALL BE SUBMITTED TO THE CODE AUTHORITIES FOR REVIEW. NOTIFY THE OWNER'S REPRESENTATIVE OF THE PROCESSING TIME FOR EACH REVISION SUBMITTED FOR PLAN CHECK.

COPYRIGHT AND REPRODUCTION

1. THE USE OF REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR ELECTRONIC FILES AS SHOP DRAWING DOCUMENTS BY THE CONTRACTOR IS AT THEIR OWN RISK. THE DESIGN CONSULTANTS ASSUME NO LIABILITY AS A RESULT OF THE USE OF REPRODUCTIONS OF THE CONTRACT DOCUMENTS FOR SHOP DRAWINGS AND/OR DELEGATED DESIGN DRAWINGS.
2. THE ENTIRE CONTRACT DOCUMENT PACKAGE HEREIN IS THE ORIGINAL AND UNPUBLISHED PROPERTY OF THE OWNER AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE PRIOR EXPLICIT WRITTEN CONSENT.
3. THE USE OF DIGITAL DESIGN FILES SHALL REQUIRE THE CONTRACTOR TO AGREE TO PRIME CONSULTANT'S LICENSE CONDITIONS BEFORE USE.

CONSTRUCTION LOADS, DAMAGES & REPAIRS

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SLOPE STABILITY AND DE-WATERING DURING THE WORKS UNLESS UNKNOWN CONDITIONS ARE ENCOUNTERED.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTING THE WORKS FROM CONSTRUCTION LOADS AND DAMAGES TO EXISTING STRUCTURES TO REMAIN, NEW STRUCTURES AND NEW PAVEMENTS DURING THE WORKS.
3. BE FULLY RESPONSIBLE FOR THE COST OF DAMAGES WHICH OCCUR AS A RESULT OF A FAILURE TO MITIGATE CONSTRUCTION LOADS AND/OR PROTECT THE WORKS FROM CONSTRUCTION RELATED IMPACTS. REPAIRS SHALL BE TO A NEW OR BETTER CONDITION COMPARED TO THE EXISTING CONDITION BEFORE DAMAGE, AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
4. CONFIRM ON-STRUCTURE UNIFORM AND POINT LOAD LIMITS WITH ENGINEER PRIOR TO IMPORTING AND HANDLING LANDSCAPE MATERIALS OVER VAULTS, AND/OR TUNNELS, INCLUDING UTILITY STRUCTURES, AND FLOOD CONTROL STRUCTURES.

CONSTRUCTION WASTE MANAGEMENT

1. REMOVE FROM THE SITE EXCESS MATERIAL AND/OR DEBRIS. DISPOSAL OF MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. EXCESS MATERIAL AND/OR DEBRIS TO ABLE TO BE RECYCLED OR REUSED SHALL BE DISPOSED OF OFF THE PROJECT SITE IN A PERMITTED LANDFILL.

EXISTING CONDITIONS & SITE REMOVAL NOTES

SITE REMOVAL NOTES

1. EXISTING SITE INFORMATION WAS PROVIDED BY BOLTON & MENK. ACTUAL FIELD CONDITIONS MAY VARY. FIELD VERIFY UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
2. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY PRIOR TO THE START OF DEMOLITION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR CONSITE LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE.
3. CONTRACTOR TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION BY CALLING GOPHER STATE ONE CALL AT 651-454-0002 (METRO) OR 1-800-252-1166 (OUT-STATE).
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY UTILITY COMPANY'S FORCES AND FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING FEES AND CHARGES.
5. ALWAYS VERIFY BENCHMARK ELEVATIONS BETWEEN TWO BENCHMARKS.
6. REMOVAL ITEMS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER PER LOCAL GOVERNING AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS REQUIRED

FOR DEMOLITION AND DISPOSAL. FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.

7. PRIOR TO DEMOLITION. EROSION CONTROL DEVICES ARE TO BE INSTALLED WHERE NECESSARY AND OBTAIN AN NPDES STORM WATER PERMIT. REFER TO CIVIL FOR EROSION CONTROL.
8. DAMAGE TO REMAINING EXISTING CONDITIONS WILL BE REPLACED AT CONTRACTOR'S EXPENSE AND SHALL BE EQUAL TO OR EXCEED THE QUALITY OF CONSTRUCTION PRIOR TO DAMAGE.
9. CONCRETE PAVEMENT, SIDEWALKS, CURB AND GUTTER, AND OTHER POURED CONCRETE ITEMS ARE TO BE REMOVED TO AN EXISTING EXPANSION OR CONTRACTION JOINT.
10. CONTRACTOR SHALL LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS. IF DAMAGE IS INCURRED ON THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR AT NO ADDITIONAL COST TO THE OWNER. BITUMINOUS PAVEMENT REMOVALS ARE TO BE MADE WITH A VERTICAL SAW CUT OR TO A NEAT MILLED EDGE.
11. CONTRACTOR SHALL PRESERVE VEGETATION NOT TO BE REMOVED BY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-SEEDING OR SODDING AREAS DISTURBED BY CONSTRUCTION.
12. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT DISCREPANCIES BETWEEN THEIR MEASUREMENTS AND THESE PLANS. CONTRACTOR SHALL ALSO MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
13. EXISTING UTILITIES TO REMAIN IN PLACE UNLESS SPECIFICALLY MARKED ON THIS SHEET.

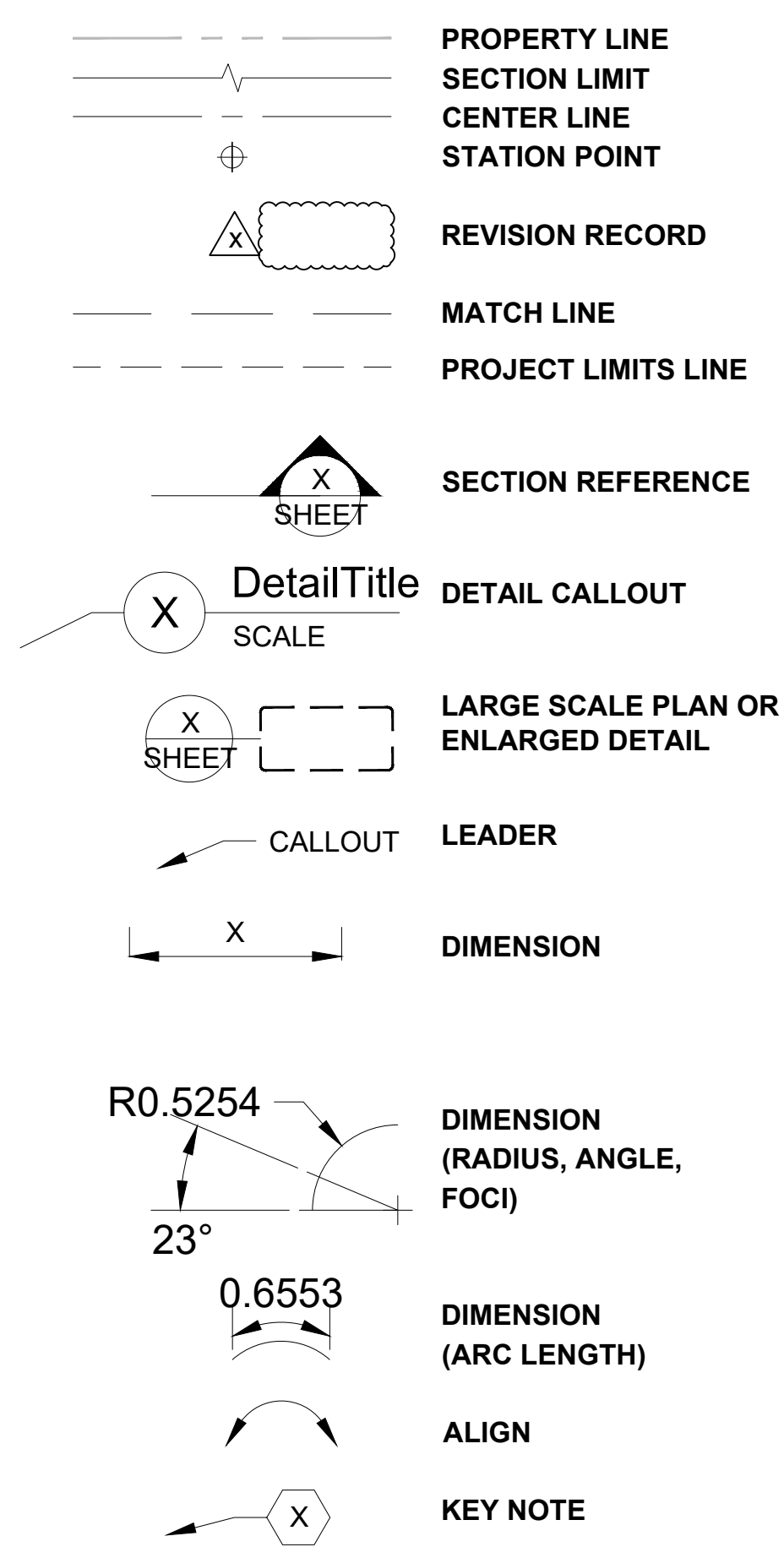
ABBREVIATIONS

APPROX AVG	APPROXIMATE AVERAGE
BLDG	BUILDING
BM	BENCHMARK
BOS	BOTTOM OF STAIR
BOT	BOTTOM
C	CHILLER
CB	CATCH BASIN
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CLL	CONTRACT LIMIT LINE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CTR	CENTER
DAT	DATUM
DEG	DEGREE
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVISION
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EP	EDGE OF PAVEMENT
EQ	EQUAL
EQSP	EQUAL SPACING
EQUIV	EQUIVALENT
EX	EXISTING
F	FAHRENHEIT
FC	FOOTCANDLE
FFE	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE, AND EQUIPMENT
FG	FINISHED GRADE
FOC	FACE OF CURB
FOW	FACE OF WALL
FV	FIELD VERIFY
GALV	GALVANIZED
GDR	GUARDRAIL
H	HIGH
HB	HOSE BIBB
HDPE	HIGH DENSITY POLYETHYLENE
HH	HAND HOLE
HDR	HANDRAIL
HORIZ	HORIZONTAL
HT	HEIGHT
HV	HIGH VOLTAGE
ID	INSIDE DIMENSION
INV.EL	INVERT ELEVATION
KW	KILOWATT
LDPE	LOW DENSITY POLYETHYLENE
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LPT	LOW POINT
LTD	LIMITED
LV	LOW VOLTAGE
LW	LOW WATER

MAX	MAXIMUM
MFR.REC	MANUFACTURER'S RECOMMENDATIONS
MH	MANHOLE
MID	MIDDLE
MIN	MINIMUM
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHANG
PB	PULL BOX
PC	POINT OF CURVE
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
pH	ACID/ALKALINE SCALE
PH	PHASE
PI	POINT OF INTERSECTION
PKG	PACKAGE
PL	PROPERTY LINE
PLBG	PLUMBING
PRCST	PRECAST
PREFAB	PREFABRICATE
PROV	PROVISIONAL
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTR	QUARTER
QTY	QUANTITY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RECIRC	RECIRCULATE
RECPT	RECEPTACLE
REINF	REINFORCE
REQD	REQUIRED
REV	REVISION
RLG	RAILING
ROW	RIGHT OF WAY
S	SOUTH
SALV	SALVAGE
SEG	SEGMENT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SSD	SUBSOIL DRAIN
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
SUCT	SUCTION
T	TRANSFORMER
TAN	TANGENT
TBD	TO BE DETERMINED
TB-XX	TEST BORING
TD	TRENCH DRAIN
TEMP	TEMPORARY
THK	THICKNESS
THRU	THROUGH
TO	TOP OF
TOC	TOP OF CURB
TOL	TOLERANCE
TOS	TOP OF SLOPE
TOW	TOP OF WALL

TR	TRASH
TS	TOP OF STAIR
TYP	TYPICAL
UGND	UNDERGROUND
UNIF	UNIFORM
UP	UTILITY POLE
UV	ULTRAVIOLET
VAR	VARIES
VERT	VERTICAL
VRFY	VERIFY
W	WEST
W/	WITH
W/O	WITHOUT
WL	WATERLINE
WLD	WELDED
WT.EL	WATER ELEVATION
XFMR	TRANSFORMER
YR	YEAR
@	AT
&	AND
-/+	DIMENSION TOLERANCE
IJ	ISOLATION JOINT
HW	HIGH WATER
NP	NORMAL POOL
GB	GRADE BREAK

SYMBOLS



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100% BID PACKAGE

EARTHWORK, UTILITIES & TRAIL PAVING

THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MINNESOTA

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

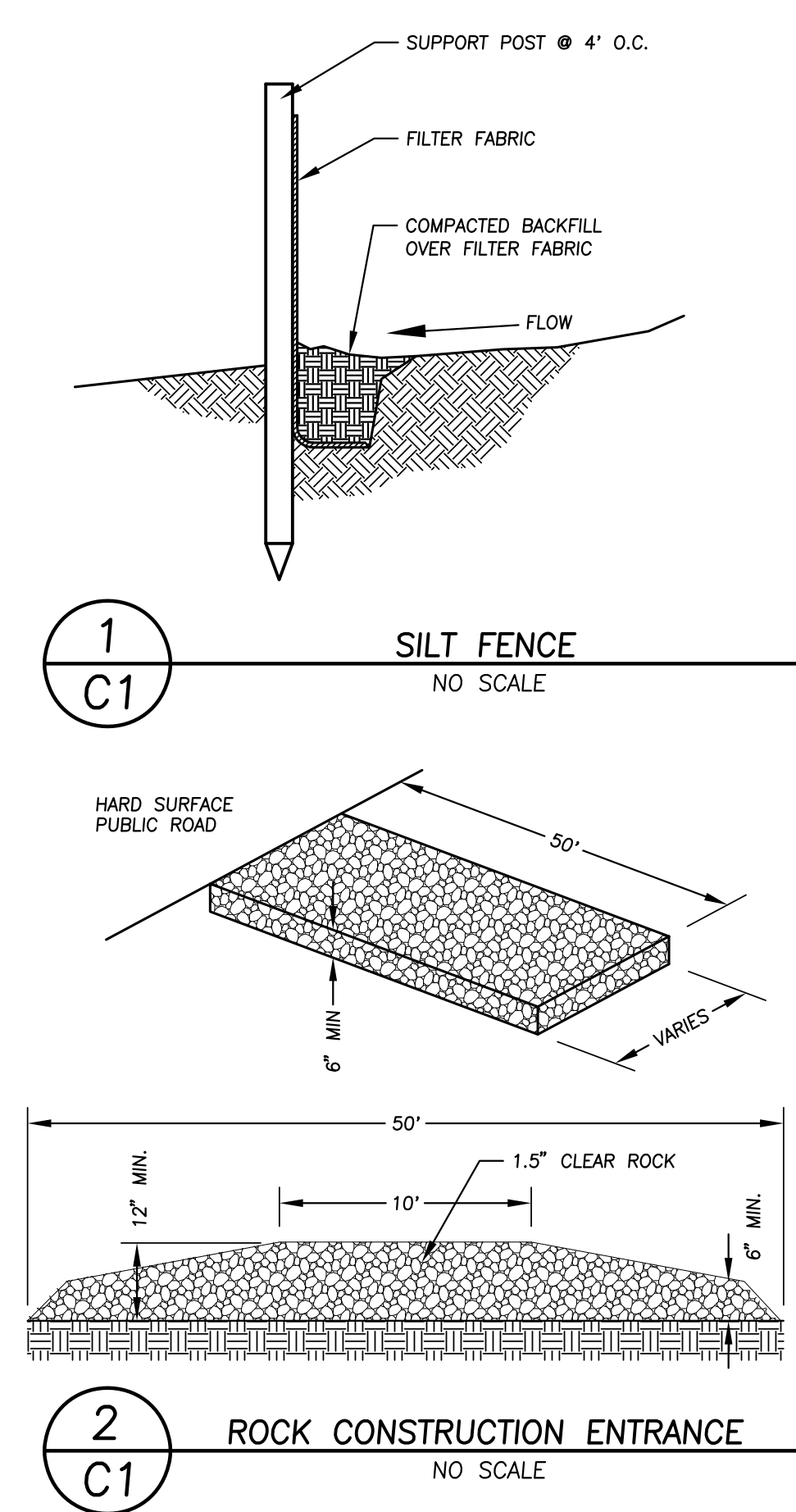
Name Charles Evens
 Registration# 50575
 Signature *Charles Evens* 04/05/2024
 Date

Date 04/05/2024
 Df/ Project # 23-176
 Scale AS SHOWN
 Drawn/Checked AG/CE

REVISION --

NOTES, ABBREVIATIONS & SYMBOLS

G002

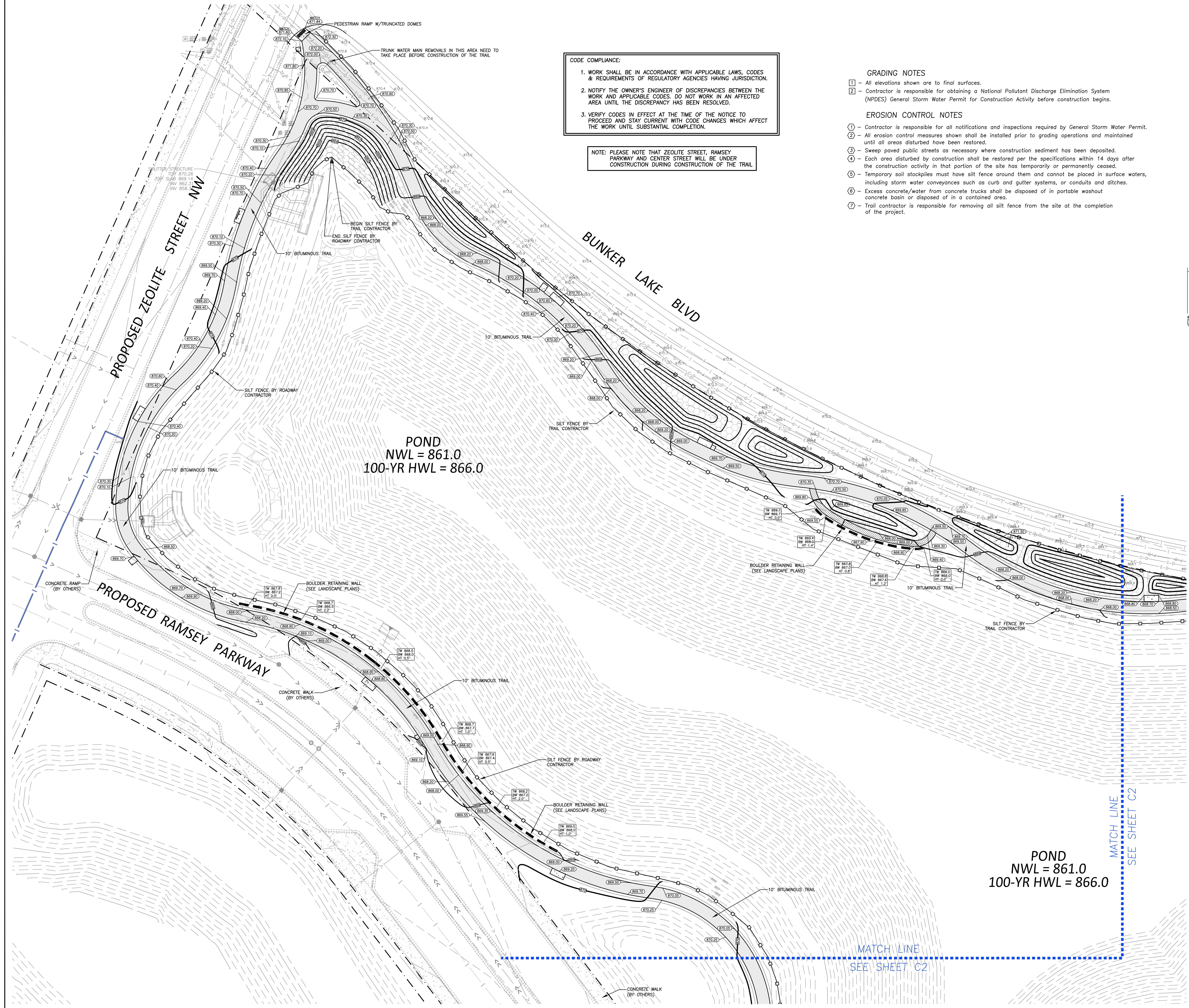


CODE COMPLIANCE:

1. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LAWS, CODES & REQUIREMENTS OF REGULATORY AGENCIES HAVING JURISDICTION.
2. NOTIFY THE OWNER'S ENGINEER OF DISCREPANCIES BETWEEN THE WORK AND APPLICABLE CODES. DO NOT WORK IN AN AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
3. VERIFY CODES IN EFFECT AT THE TIME OF THE NOTICE TO PROCEED AND STAY CURRENT WITH CODE CHANGES WHICH AFFECT THE WORK UNTIL SUBSTANTIAL COMPLETION.

NOTE: PLEASE NOTE THAT ZEOLITE STREET, RAMSEY PARKWAY AND CENTER STREET WILL BE UNDER CONSTRUCTION DURING CONSTRUCTION OF THE TRAIL

- GRADING NOTES**
- 1 - All elevations shown are to final surfaces.
 - 2 - Contractor is responsible for obtaining a National Pollutant Discharge Elimination System (NPDES) General Storm Water Permit for Construction Activity before construction begins.
- EROSION CONTROL NOTES**
- 1 - Contractor is responsible for all notifications and inspections required by General Storm Water Permit.
 - 2 - All erosion control measures shown shall be installed prior to grading operations and maintained until all areas disturbed have been restored.
 - 3 - Sweep paved public streets as necessary where construction sediment has been deposited.
 - 4 - Each area disturbed by construction shall be restored per the specifications within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
 - 5 - Temporary soil stockpiles must have silt fence around them and cannot be placed in surface waters, including storm water conveyances such as curb and gutter systems, or conduits and ditches.
 - 6 - Excess concrete/water from concrete trucks shall be disposed of in portable washout concrete basin or disposed of in a contained area.
 - 7 - Trail contractor is responsible for removing all silt fence from the site at the completion of the project.

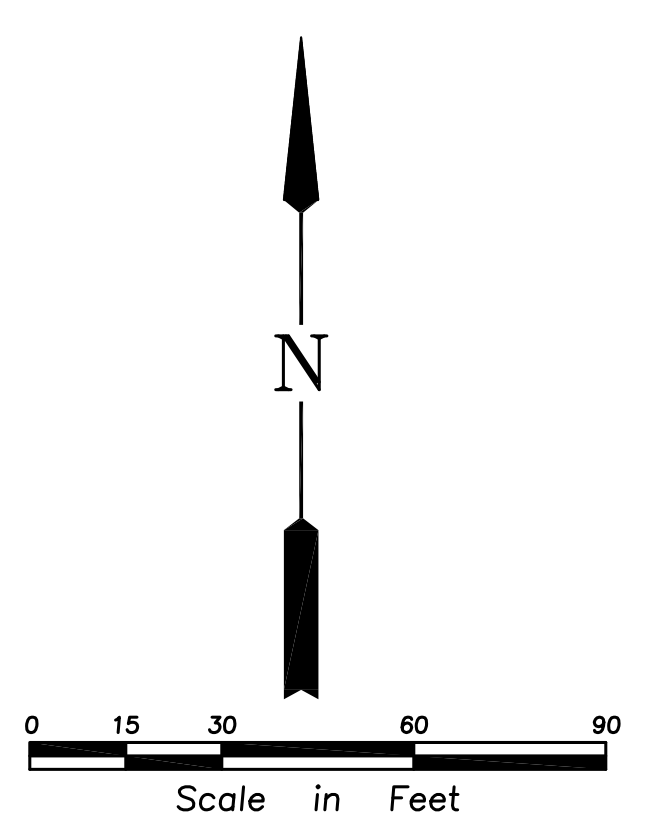


LEGEND

- PROPOSED CONCRETE
- PROPOSED BITUMINOUS
- PROPOSED CRUSHED GRANITE
- PROPOSED CONTOUR
- PROPOSED ELEVATION
- PROPOSED SILT FENCE
- PROPOSED EC BLANKET CATEGORY 20 (MNDOT 3885)
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- PROPOSED STORM SEWER
- BOUNDARY/ROW/BLOCK LINE
- BUILDING/PARKING SETBACK LINE
- DRAINAGE ARROW
- EXISTING CONTOUR
- EXISTING ELEVATION

MATCH LINE
SEE SHEET C2

MATCH LINE
SEE SHEET C2



100% BID PACKAGE

EARTHWORK, UTILITIES & TRAIL PAVING

THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MN

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Name: Nicholas P. Adam
Registration#: 43856
Signature: *Nicholas P. Adam* Date: 04/05/2024

Date: 04/05/2024
DF/ Project #: 23-176
Scale: 1 INCH = 30 FEET
Drawn/Checked: BJO/NPA

REVISION

GRADING & EROSION CONTROL PLAN

C101

CODE COMPLIANCE:

1. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LAWS, CODES & REQUIREMENTS OF REGULATORY AGENCIES HAVING JURISDICTION.
2. NOTIFY THE OWNER'S ENGINEER OF DISCREPANCIES BETWEEN THE WORK AND APPLICABLE CODES. DO NOT WORK IN AN AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
3. VERIFY CODES IN EFFECT AT THE TIME OF THE NOTICE TO PROCEED AND STAY CURRENT WITH CODE CHANGES WHICH AFFECT THE WORK UNTIL SUBSTANTIAL COMPLETION.

NOTE: PLEASE NOTE THAT ZEOLITE STREET, RAMSEY PARKWAY AND CENTER STREET WILL BE UNDER CONSTRUCTION DURING CONSTRUCTION OF THE TRAIL

GRADING NOTES

- 1 - All elevations shown are to final surfaces.
- 2 - Contractor is responsible for obtaining a National Pollutant Discharge Elimination System (NPDES) General Storm Water Permit for Construction Activity before construction begins.

EROSION CONTROL NOTES

- 1 - Contractor is responsible for all notifications and inspections required by General Storm Water Permit.
- 2 - All erosion control measures shown shall be installed prior to grading operations and maintained until all areas disturbed have been restored.
- 3 - Sweep paved public streets as necessary where construction sediment has been deposited.
- 4 - Each area disturbed by construction shall be restored per the specifications within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- 5 - Temporary soil stockpiles must have silt fence around them and cannot be placed in surface waters, including storm water conveyances such as curb and gutter systems, or conduits and ditches.
- 6 - Excess concrete/water from concrete trucks shall be disposed of in portable washout concrete basin or disposed of in a contained area.

SPECIFICATIONS

GENERAL

1. Before construction begins, the Contractor shall contact all utility companies, both public and private and have them locate all utilities within the construction limits.
2. The Contractor shall be responsible for arranging all required inspections with the governing authority that has jurisdiction over the work that is to be performed.
3. The Contractor shall stay within the construction limits unless approved otherwise by the Owner and/or Engineer. Construction limits are defined by the property boundary unless shown different on the plan.
4. The Contractor shall be responsible for protecting all existing structures, utilities, trees, etc. from damage during construction.
5. The Contractor shall be responsible for correcting any damage (at Contractor's expense).
6. Any discrepancies found on the site that affect the proposed work shall be reported to the Owner and/or Engineer before the completion of any additional work.
7. No soils report provided. Subgrade soils assumed adequate for the proposed construction.
8. Existing Topography and Boundary Survey provided by Bolton & Menz.

SITE CLEARING

1. GENERAL
 - A. Remove trees, shrubs, grass, and other vegetation or obstructions, as required, to permit installation of improvements shown on the Plans.
2. EXECUTION
 - A. Trees and stumps shall be hauled from the site. Burial on-site or burning of trees and stumps will not be allowed.
 - B. Where existing trees are indicated to remain, leave existing topsoil in place within drip lines to prevent damage to root system.
 - C. Topsoil shall be stripped from disturbed areas and stockpiled in piles not exceeding 3-feet in depth.
 - D. Remove all back dirt and unsuitable material from under drives and roadways within 3-feet of final pavement subgrade.
 - E. Remove all waste materials and unsuitable or excess topsoil from Owner's property.

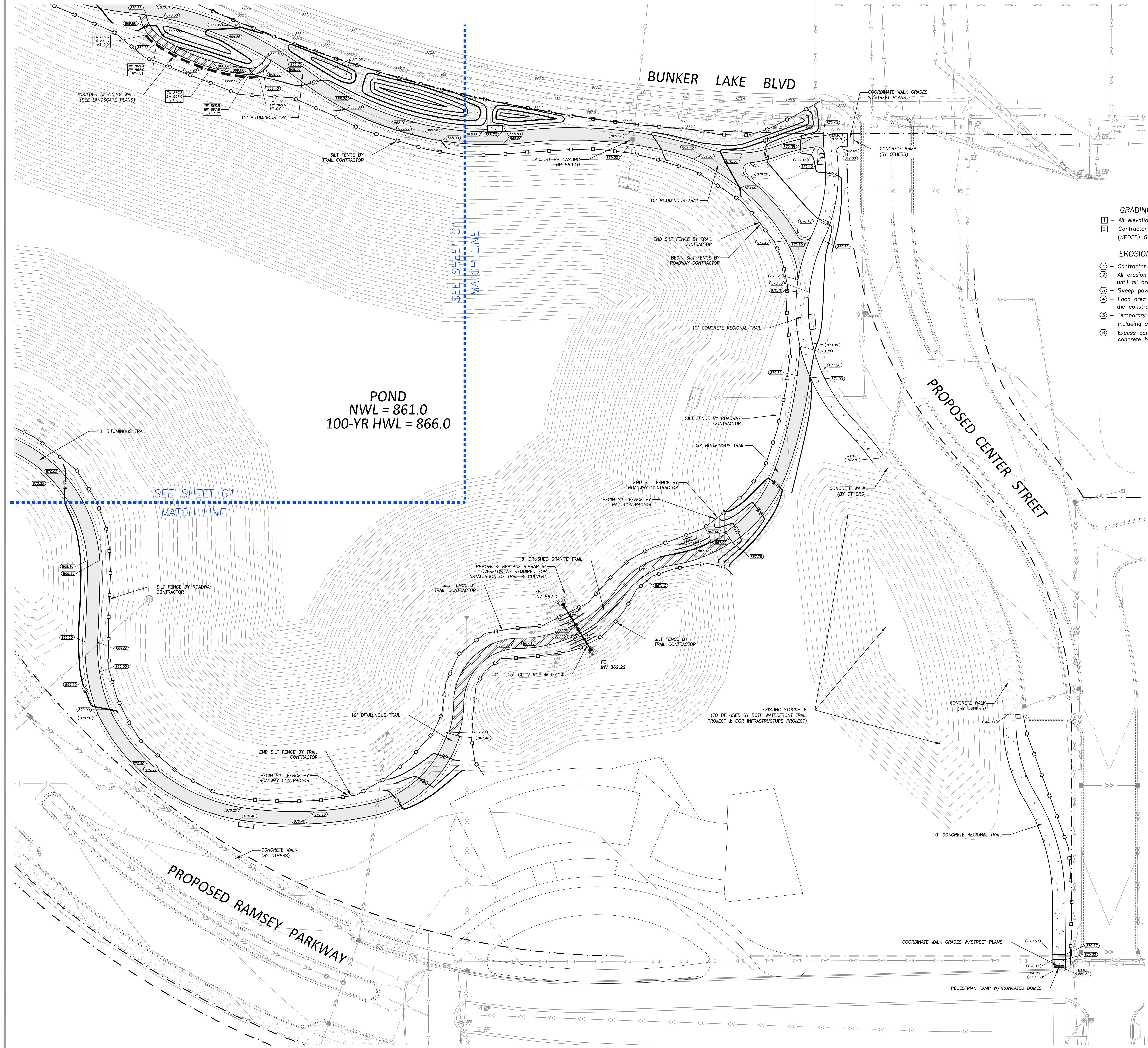
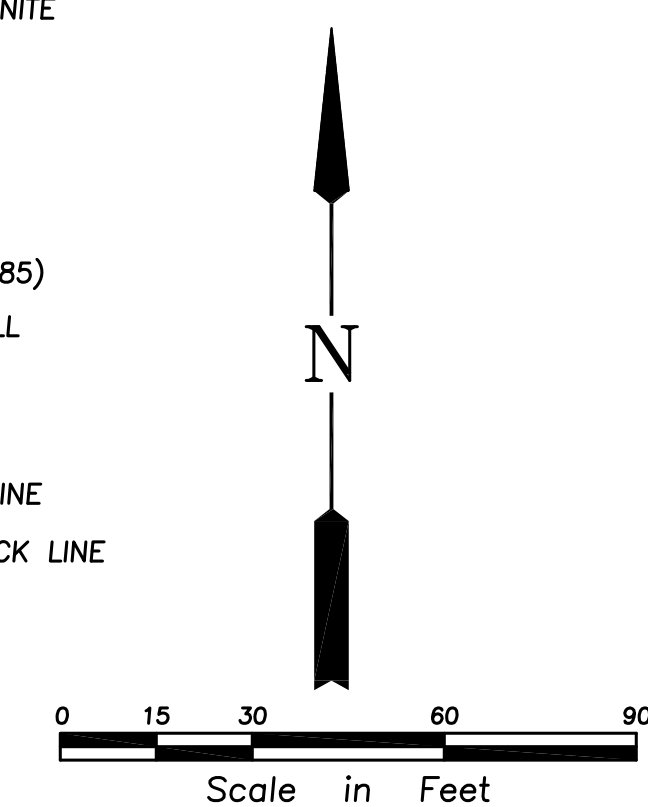
GRADING, EROSION CONTROL, AND TURF ESTABLISHMENT

1. GENERAL
 - A. All grading, erosion control and turf establishment shall be according to the materials, workmanship, and other applicable requirements of the Minnesota Department of Transportation "Standard Specifications for Construction", latest edition, unless otherwise specified.
 - B. All erosion control measures shown on the plans must be installed prior to commencement of grading operations and maintained until all areas altered on the site have been restored.
 - C. All areas disturbed by construction shall be restored with seed and disked mulch, sod, wood fiber blanket, or be hard surfaced within two weeks of substantial completion of construction.
 - D. Provide approved borrow soil materials from off-site when sufficient approved soil materials are not available from excavations. Remove all excess and unsatisfactory material from the site.
 - E. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, heaving, and other hazards created by earthwork operations.
 - F. Compaction shall not be less than the following percentages of maximum dry density according to ASTM D 698:
 - i. Under structures, building slabs, steps, and pavements, compact the top 12 inches below subgrade and each layer of backfill or fill material at 100 percent maximum dry density.
 - ii. Under walkways, compact the top 6 inches below subgrade and each layer of backfill or fill material at 100 percent maximum dry density.
 - iii. Under lawn or ungrazed areas, compact the top 6 inches below subgrade and each layer of backfill or fill material at 95 percent maximum dry density.
 - G. Grades as shown on the plan are to finished grade.
 - H. Backfill trenches involving utilities under building slabs to be designed by Others (per their requirements).
2. PRODUCTS
 - A. Satisfactory soils include ASTM D 2487 soil classification groups GW, GP, GM, SW, SP, and SM; free of rock or gravel larger than 2-inches in any dimension, debris waste, frozen materials, vegetation and other deleterious matter.
 - B. Unsatisfactory soils include ASTM D 2487 soil classification groups GC, SC, ML, MH, CL, CH, OL, OH, and PT.
 - C. All backfill and fill materials must be satisfactory soil materials.
 - D. Topsoil shall be per ASTM D 5268, free of stones 1" or larger.
 - E. Subbase and base material must be a naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or meeting MNDOT Specifications for Class 5 gravel.
 - F. Spring/Summer temporary turf establishment: seed shall be MNDOT Mixture 110 @ 100 lbs/acre and mulch shall be MNDOT Type 1.
 - G. Winter temporary turf establishment: seed shall be MNDOT Mixture 100 @ 100 lbs/acre and mulch shall be MNDOT Type 1.
3. EXECUTION
 - A. Place 4-inches of topsoil over all areas to be re-established with turf or as specified in the landscape plans.
 - B. Provide erosion control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.
 - C. Place inlet protection devices in catch basins and maintain until all areas disturbed have been restored.
 - D. Whenever construction vehicle access routes intersect paved public roads, provisions must be made to minimize the transport of sediment (mud) by runoff or vehicles tracking onto the paved road surface. Where sediment is transported onto a public road surface, the roads shall be cleaned thoroughly at the end of each day. Sediment shall be removed by shoveling or sweeping and be transported to a sediment controlled disposal area. Street washing shall be allowed only after sediment is removed in this manner.

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100% BID PACKAGE

EARTHWORK, UTILITIES & TRAIL PAVING

THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MN

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

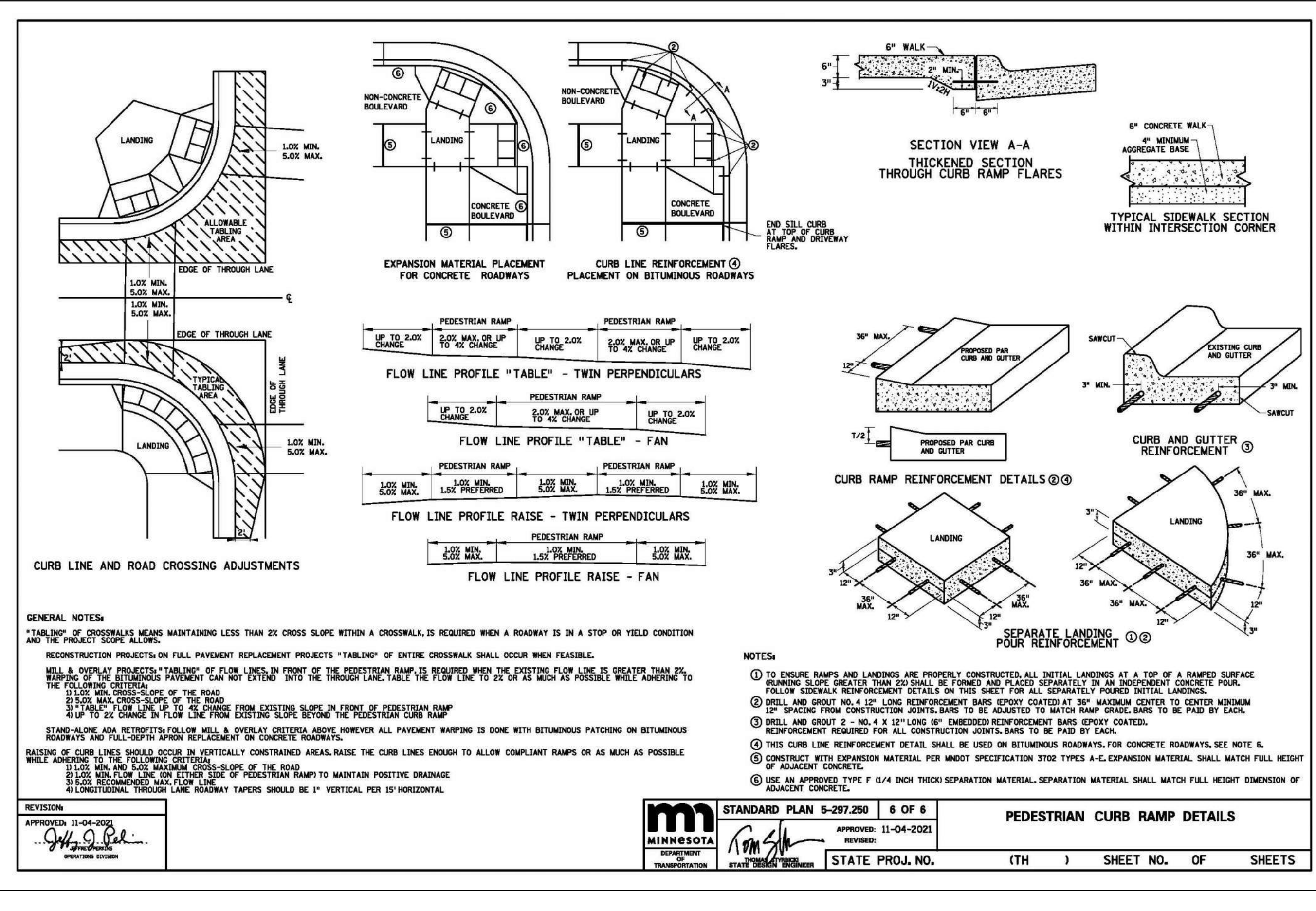
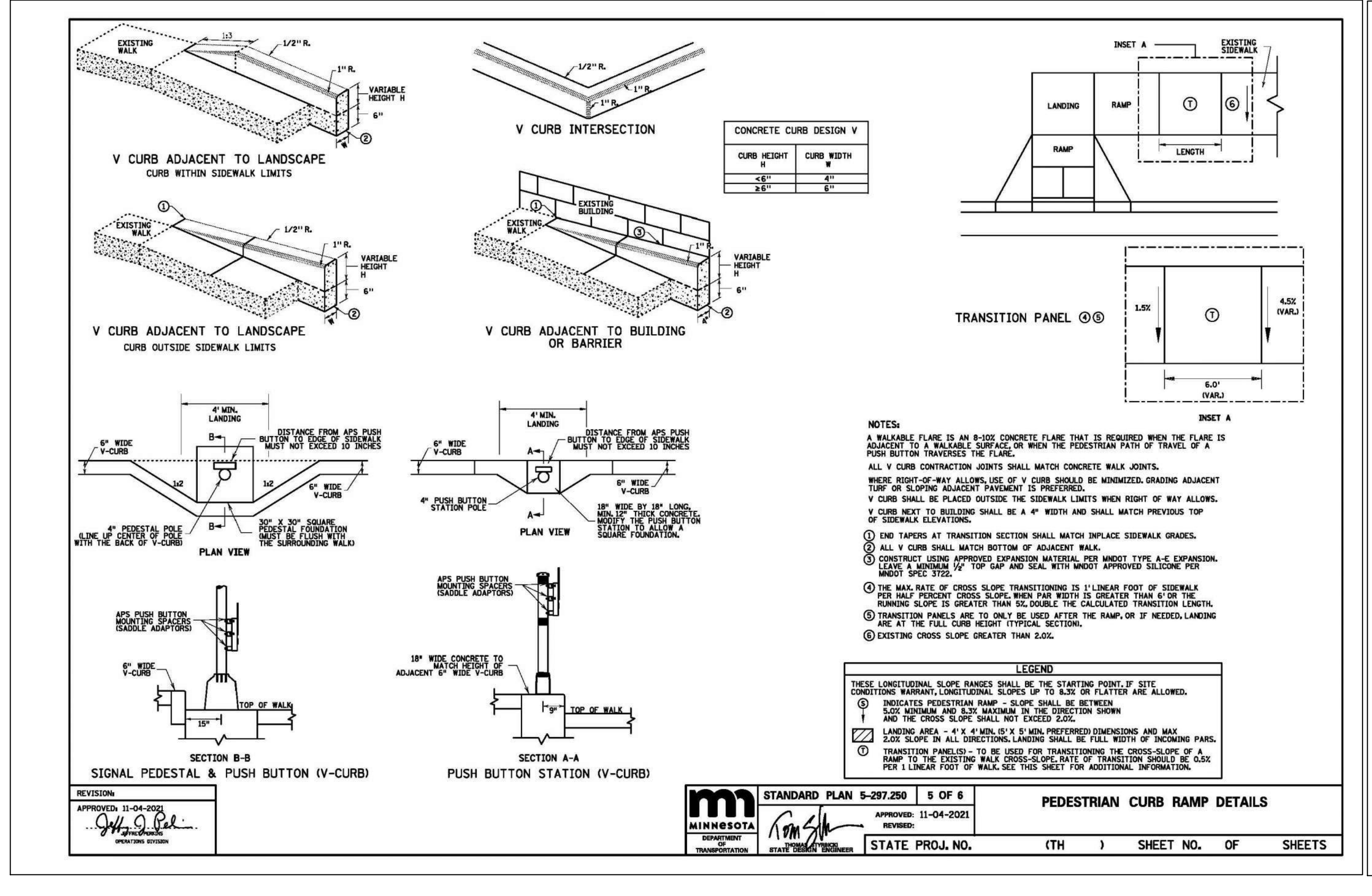
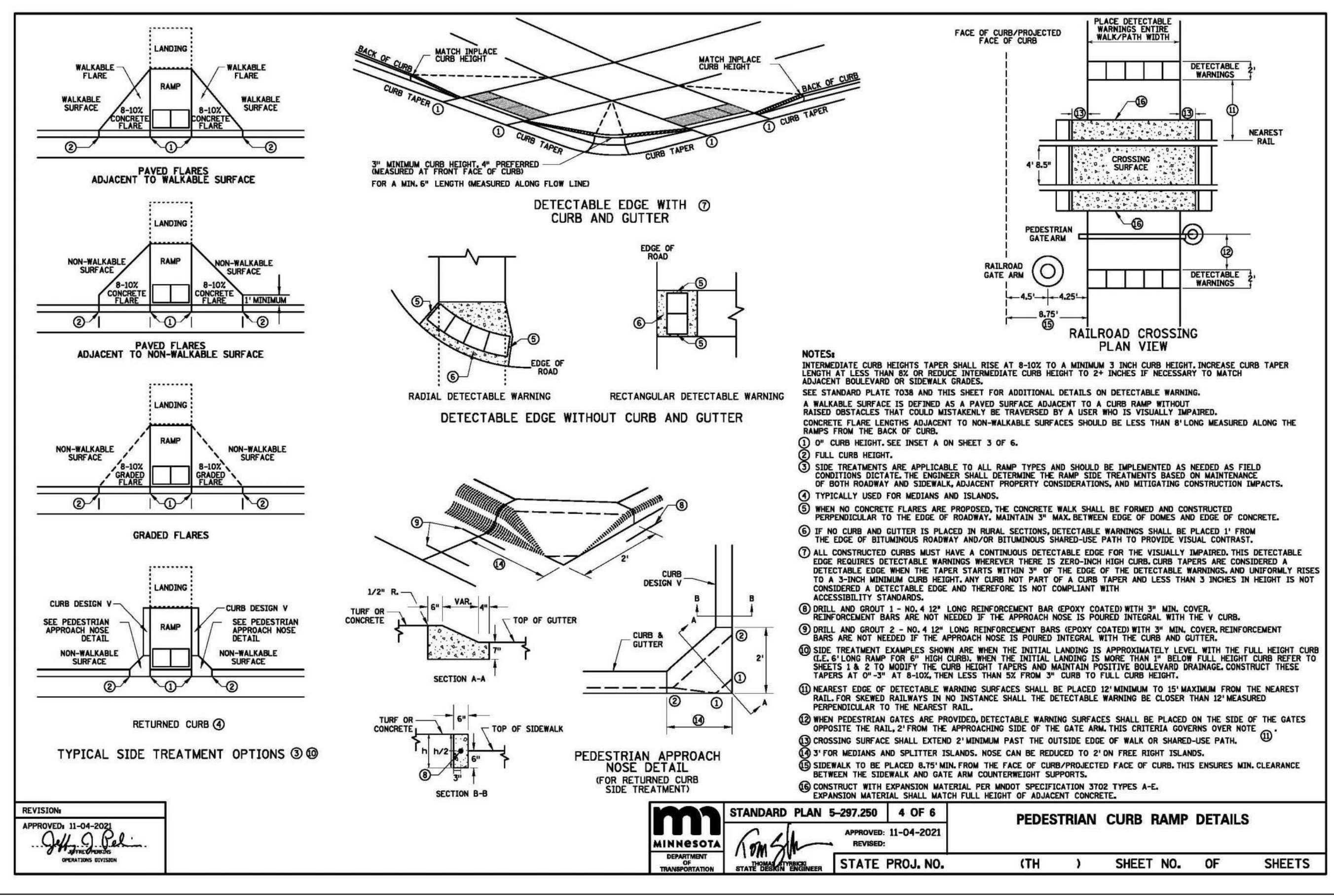
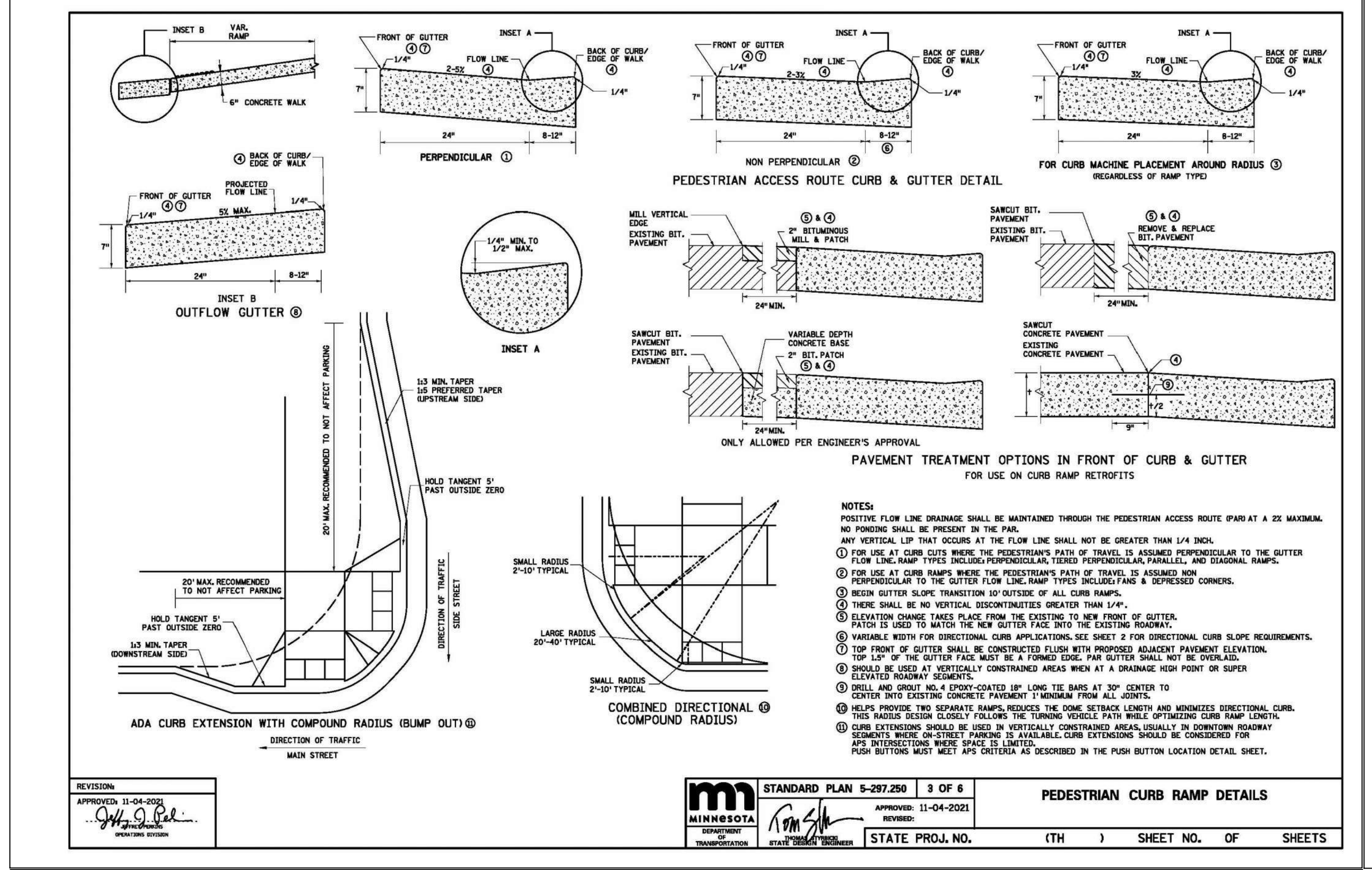
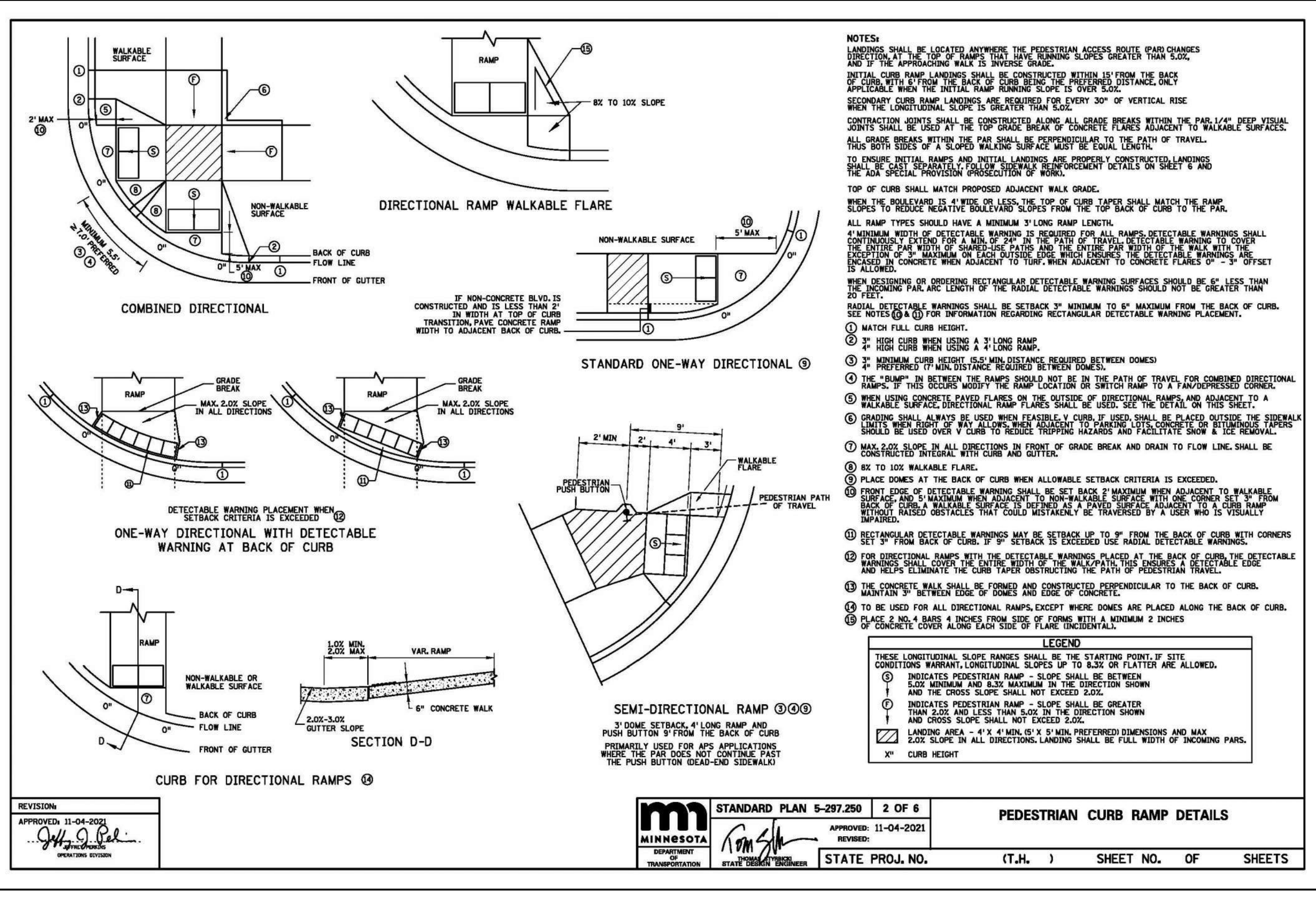
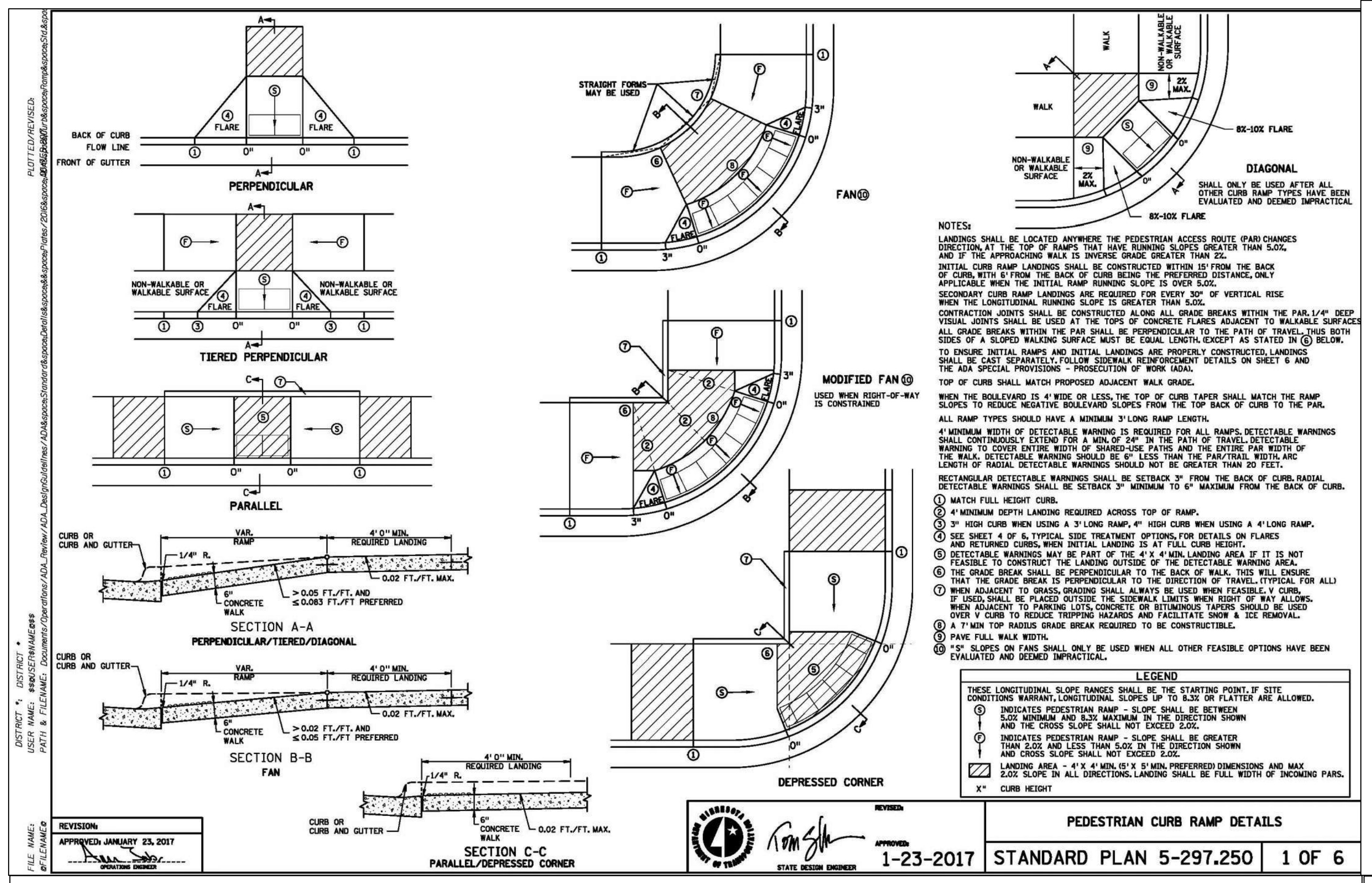
Name: Nicholas P. Adam
Registration#: 43856
Signature: *Nicholas P. Adam* Date: 04/05/2024

Date: 04/05/2024
DF/ Project #: 23-176
Scale: 1 INCH = 30 FEET
Drawn/Checked: BJQ/NPA

REVISION	DATE

GRADING & EROSION CONTROL PLAN

C102



100% BID PACKAGE

EARTHWORK, UTILITIES & TRAIL PAVING

THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MN

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Name: Nicholas P. Adam
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Signature: *Nicholas P. Adam* 04/05/2024
Date

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REVISION: --

MNDOT STANDARD DETAILS

C103

SWPPP NOTES

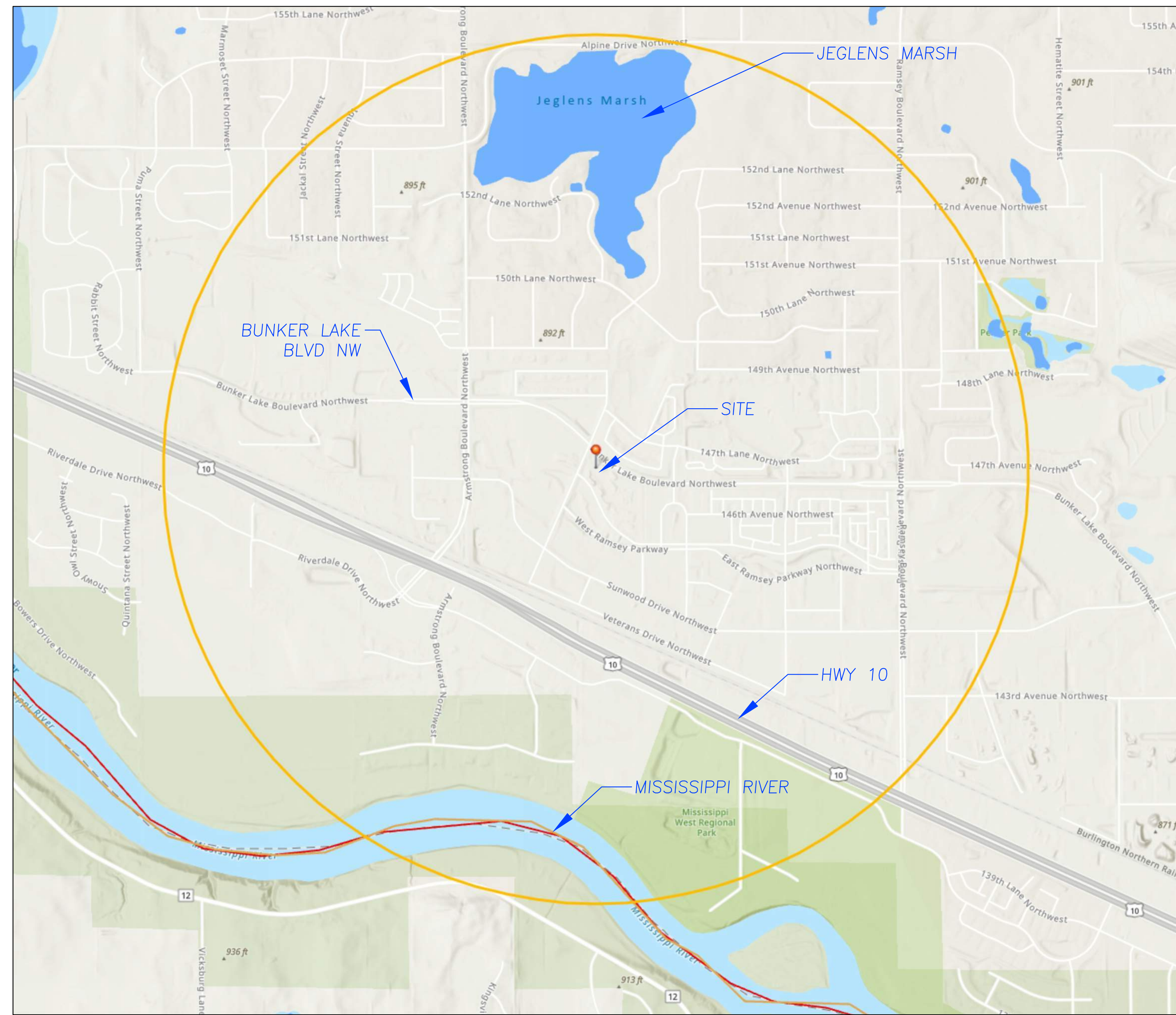
1. THE NATURE OF THIS PROJECT WILL CONSIST OF CONSTRUCTING A BITUMINOUS & CONCRETE WALKING TRAIL LOOP AROUND A REGIONAL POND.
2. THE INTENDED SEQUENCING OF MAJOR CONSTRUCTION ACTIVITIES ARE AS FOLLOWS:
 - 2.1. INSTALL VEHICLE TRACKING BMP.
 - 2.2. INSTALL SILT FENCE & INLET PROTECTION AROUND SITE.
 - 2.3. STRIP AND STOCKPILE TOPSOIL.
 - 2.4. ROUGH GRADE SITE.
 - 2.5. IMPORT CLEAN FILL OR EXPORT CUT FOR SITE BALANCE.
 - 2.6. INSTALL UTILITIES.
 - 2.7. INSTALL PAVEMENTS AND WALKS (AS REQUIRED).
 - 2.8. FINAL GRADE SITE.
 - 2.9. SEED AND MULCH.
 - 2.10. INSTALL BIO-ROLLS OR SILT FENCE AT BACK OF CURB OR PAVEMENT, AS NECESSARY THROUGH BUILDING CONSTRUCTION PROCESS.
 - 2.11. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE SILT FENCE AND RESEED ANY AREAS DISTURBED BY THE REMOVAL.
 - 2.12. ENSURE FINAL STABILIZATION MEASURE ARE COMPLETE.
 - 2.13. PROVIDE DIGITAL COPY OF ALL FIELD SWPPP DOCUMENTATION INCLUDING INSPECTION REPORTS AND SWPPP REVISIONS TO THE OWNER.
 - 2.14. SUBMIT NOTICE OF TERMINATION TO MPCA. NOTE: THE NOTICE OF TERMINATION MUST BE SUBMITTED TO MPCA BEFORE FINAL STABILIZATION IS CONSIDERED COMPLETE.
3. SITE DATA:

3.1. SITE ADDRESS:	SOUTHEAST INTERSECTION OF BUNKER LAKE BLVD & ZEOLITE ST IN RAMSEY, MN 55303
3.2. SITE AREA:	12.87 ACRES
3.3. AREA OF DISTURBANCE:	3.61 ACRES
3.4. PRE-CONSTRUCTION IMPERVIOUS AREA:	0.00 ACRES
3.5. POST-CONSTRUCTION IMPERVIOUS AREA:	0.91 ACRES
3.6. PLANNED CONSTRUCTION START DATE:	5-1-24
3.7. ESTIMATED CONSTRUCTION COMPLETION DATE:	12-6-24

GENERAL SOIL TYPE: LOAMY SANDS (HUBBARD & DUELM) PER THE USDA'S WEB SOIL SURVEY
4. THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE IDENTIFIED WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC. BEFORE CONSTRUCTION BEGINS.
5. NO DRAINAGE AREA TO BE MORE THAN FIVE (5) ACRES OF RUNOFF CAUSING THE NEED FOR A TEMPORARY SEDIMENT BASIN.
6. ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN (7) OR MORE DAYS SHALL BE STABILIZED BY SEEDING OR SODDING (ONLY AVAILABLE PRIOR TO SEPTEMBER 15) OR BY MULCHING OR COVERING OR OTHER EQUIVALENT CONTROL MEASURE.
7. ON SLOPES 3:1 OR GREATER, MAINTAIN SHEET FLOW AND MINIMIZE HILLS AND/OR GULLIES. SLOPE LENGTHS SHALL BE NO GREATER THAN 75 FEET.
8. ALL STORM DRAINS AND INLETS MUST BE PROTECTED UNTIL ALL SOURCES OF POTENTIAL DISCHARGE ARE STABILIZED.
9. TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE SEDIMENT CONTROL AND CAN NOT BE PLACED IN SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT AMOUNT OF SILT, CLAY, OR ORGANIC COMPOUNDS ARE EXEMPT EX. CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES.
10. SEDIMENT LADEN WATER MUST BE DISCHARGED TO A SEDIMENTATION BASIN WHENEVER POSSIBLE. IF NOT POSSIBLE, IT MUST BE TREATED WITH THE APPROPRIATE BMP'S.
11. SOLID WASTES MUST BE STORED, COLLECTED AND DISPOSED OF PROPERLY PER MPCA STANDARDS.
12. EXTERNAL WASHING OF CONSTRUCTION VEHICLES MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF MUST BE PROPERLY CONTAINED.
13. NO ENGINE DEGREASING IS ALLOWED ON SITE.
14. IN THE EVENT OF ENCOUNTERING A WELL OR SPRING DURING CONSTRUCTION, CONTRACTOR TO CEASE CONSTRUCTION ACTIVITY AND NOTIFY ENGINEER.
15. THE OWNER WHO SIGNS THE NPDES PERMIT APPLICATION IS A PERMITEE AND IS RESPONSIBLE FOR COMPLIANCE WITH ALL TERMS AND CONDITIONS OF THE PERMIT. THE OPERATOR (CONTRACTOR) WHO SIGNS THE NPDES PERMIT APPLICATION IS A PERMITEE FOR PARTS 2.B-2.F, PART 5, PART 6, AND APPLICABLE CONSTRUCTION ACTIVITY REQUIREMENTS FOUND IN APPENDIX A, PART C OF THE NPDES PERMIT AND IS JOINTLY RESPONSIBLE WITH THE OWNER FOR COMPLIANCE WITH THOSE PORTIONS OF THE PERMIT.
16. DOCUMENT RETENTION: PERMITEE(S) MUST MAKE THE SWPPP, INCLUDING ALL INSPECTION REPORTS, MAINTENANCE RECORDS, TRAINING RECORDS AND OTHER INFORMATION REQUIRED BY THIS PERMIT, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE (3) DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT AND FOR THREE (3) YEARS FOLLOWING THE NOTICE OF TERMINATION.
17. SWPPP AMENDMENTS AND SUBMITTALS:
 - 17.1. CONTRACTOR MUST PREPARE AND SUBMIT TO THE ENGINEER A SWPPP AMENDMENT AS NECESSARY TO INCLUDE ADDITIONAL BEST MANAGEMENT PRACTICES (BMP'S) TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS THE FOLLOWING SITUATIONS:
 - 17.1.1. UPDATE CONTRACT INFORMATION AND TRAINING DOCUMENTATION FOR CONSTRUCTION SWPPP MANAGER AND BMP INSTALLER.
 - 17.1.2. THERE IS A CHANGE IN CONSTRUCTION METHOD OF PHASING, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS NOT ANTICIPATED DURING THE DESIGN OF THE SWPPP INCLUDING BUT NOT LIMITED TO:
 - 17.1.2.1. TYPES AND/OR LOCATION OF BMP'S
 - 17.1.2.2. MATERIAL STORAGE AND SPILL RESPONSE
 - 17.1.2.3. FUELING PLANS
 - 17.1.2.4. LOCATION FOR STOCKPILES, CONCRETE WASHOUT, AND SANITATION FACILITIES
 - 17.1.2.5. PROJECT PHASING
 - 17.1.3. IT IS DETERMINED THAT THE SWPPP IS NOT ACHIEVING OBJECTIVES OF MINIMIZING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
 - 17.1.4. THE SWPPP IS NOT CONSISTENT WITH THE TERMS AND CONDITIONS OF THE PERMIT.
 - 17.1.5. THERE IS A CHANGE IN DESIGN, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON DISCHARGE.
 - 17.2. THE CONTRACTOR MAY IMPLEMENT SWPPP AMENDMENTS IMMEDIATELY AND IS NOT REQUIRED TO WITH FOR ENGINEER REVIEW OF THE SUBMITTAL. THE RESPONSIBILITY FOR COMPLETENESS OF SWPPP AMENDMENTS AND COMPLIANCE WITH THE PERMIT LIES WITH THE CONTRACTOR. REVIEW, COMMENT, OR LACK OF COMMENT BY THE ENGINEER ON A SWPPP AMENDMENT SHALL NOT ABSOLVE THE RESPONSIBILITIES OF THE CONTRACTOR IN ANY WAY.
 - 17.3. IF A CHANGE ORDER IS ISSUED FOR A DESIGN CHANGE THE SWPPP AMENDMENT WILL BE PREPARED BY THE ENGINEER AND INCLUDED IN THE CHANGE ORDER.
 - 17.4. IN ADDITION TO SWPPP AMENDMENTS, THE CONTRACT SHALL SUBMIT TO THE ENGINEER WEEKLY EROSION AND SEDIMENT CONTROL SCHEDULE MEETING THE REQUIREMENTS OF MNDOT 1717.
 - 17.5. THE CONTRACTOR SHALL KEEP COPIES OF ALL SWPPP AMENDMENTS, WEEKLY EROSION AND SEDIMENT CONTROL SCHEDULES, INSPECTION LOGS, AND MAINTENANCE LOGS WITH THE FILED COPY OF THE SWPPP. A PDF COPY OF THESE DOCUMENTS WILL BE PROVIDED ALONG WITH A COPY OF THE FINAL FIELD COPY OF THE SWPPP TO THE ENGINEER ALONG WITH THE SIGNED NOTICE OF TERMINATION WHEN FINAL STABILIZATION IS COMPLETE.
18. INSPECTION & MAINTENANCE
 - 18.1. A TRAINED PERSON SHALL ROUTINELY INSPECT THE ENTIRE SITE AT THE TIME INTERVAL INDICATED ON THIS SHEET OF THE SWPPP DURING ACTIVE CONSTRUCTION AND WITHIN 24-HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.
 - 18.2. ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED ON THE DAY IT IS COMPLETED AND RETAINED WITH THE SWPPP. INSPECTION REPORT FORMS WILL BE PROVIDED BY THE CONTRACTOR BUT A TEMPLATE CAN BE PROVIDED BY THE ENGINEER UPON REQUEST.
 - 18.3. THE CONTRACTOR MAY REQUEST A CHANGE IN INSPECTION SCHEDULE FOR THE FOLLOWING CONDITIONS:
 - 18.3.1. INSPECTION OF AREAS WITH PERMANENT COVER TO BE REDUCED TO ONCE PER MONTH.
 - 18.3.2. INSPECTION OF AREAS THAT HAVE PERMANENT COVER AND HAVE NO CONSTRUCTION ACTIVITY FOR 12 MONTHS TO BE SUSPENDED UNTIL CONSTRUCTION RESUMES.
 - 18.3.3. INSPECTION OF AREAS WHERE CONSTRUCTION IS SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTION TO BE SUSPENDED UNTIL THE EARLIER OF WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION.
 - 18.4. NO CHANGE IN INSPECTION SCHEDULE SHALL OCCUR UNTIL AUTHORIZED BY THE ENGINEER
 - 18.5. INSPECTIONS MUST INCLUDE:
 - 18.5.1. ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S AND POLLUTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS.
 - 18.5.2. SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION.
 - 18.5.3. CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES.
 - 18.5.4. INFILTRATION AREAS TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITY IS REACHING THE INFILTRATION AREA AND THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE INFILTRATION AREA.
 - 18.6. PERMITEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF THE SITE LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES.
 - 18.7. ALL NON-FUNCTIONING BMP'S AND THOSE BMP'S WHERE SEDIMENT REACHES ONE-HALF (1/2) OF THE DEPTH OF THE BMP, OR IN THE CASE OF SEDIMENT BASINS ONE-HALF (1/2) OF THE STORAGE VOLUME, MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW.
 - 18.8. PERMITEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMP'S WITH FUNCTIONAL BMP'S BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW.
 - 18.9. ANY SEDIMENT THAT ESCAPES THE SITE MUST BE REMOVED AND THE AREA STABILIZED WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS PRELUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS IN WHICH CASE THE WORK SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS OF AUTHORIZATION. PAVED SURFACES SUCH AS STREETS SHALL HAVE ANY ESCAPED OR TRACKED SEDIMENT REMOVED BY THE END OF THE DAY THAT IT IS DISCOVERED. SEDIMENT RELEASE, OTHER THAN PAVED SURFACES THAT CAN BE CLEANED UP WITH STREET SWEEPING SHALL BE REPORTED IMMEDIATELY UPON DISCOVERY TO THE ENGINEER.
 - 18.10. SILT FENCE TO BE REPAIRED, REPLACED, SUPPLEMENTED WHEN NONFUNCTIONAL, OR 1/3 FULL, WITHIN 24 HOURS.

20. CONCRETE WASHOUT AREA:
 - 20.1. CONTRACTOR TO PROVIDE PORTABLE OR PREFABRICATED CONCRETE WASH-OUT CONTAINER WITH RAIN PROTECTION.
 - 20.2. CONCRETE WASH-OUT TO BE IDENTIFIED WITH SIGNAGE STATING "CONCRETE WASHOUT AREA DO NOT OVERFILL."
 - 20.3. CONCRETE WASH-OUT WATER NEEDS TO BE PUMPED WITHIN 24 HOURS OF STANDING WATER IN WASH-OUT AREA.
21. POLLUTION PREVENTION AND OTHER BMP'S:
 - 21.1. PESTICIDES, HERBICIDES, FERTILIZERS, TREATMENT CHEMICALS, ETC. MUST BE UNDER COVER.
 - 21.2. HAZARDOUS MATERIALS (OIL, GAS, PAINT, ETC.) MUST BE PROPERLY STORED IN SEALED CONTAINERS AND MEET STATE SECONDARY CONTAINMENT REQUIREMENTS.
 - 21.3. PORTABLE TOILETS MUST BE SECURED.
 - 21.4. ADEQUATE SPILL RESPONSE KIT AND DISPOSAL PLAN ON-SITE. SPILLS MUST BE CLEANED UP IMMEDIATELY.
 - 21.5. ALL MPCA LIQUID AND SOLID WASTE (CONCRETE, STUCCO, PAINT, CURES, ETC) WASHOUT REQUIREMENTS MUST BE MET ON SITE.
22. EROSION PREVENTION PRACTICES:
 - 22.1. STORM WATER CONVEYANCE CHANNELS SHALL BE ROUTED AROUND UNSTABILIZED AREAS. EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES SHALL BE USED AT OUTLETS WITHIN AND ALONG THE LENGTH OF ANY CONSTRUCTED CONVEYANCE CHANNEL.
 - 22.2. THE NORMAL WETTED PERIMETER OF ALL DITCHES OR SWALES, INCLUDING STORM WATER MANAGEMENT POND SLOPES, THAT DRAIN WATERS FROM THE SITE MUST BE STABILIZED WITHIN 200' OF ANY PROPERTY EDGE OR DISCHARGE POINT, INCLUDING STORM SEWER INLETS, WITHIN 24 HOURS OF CONNECTION.
 - 22.3. TEMPORARY OR PERMANENT DITCHES OR SWALES USED AS SEDIMENT CONTAINMENT DURING CONSTRUCTION DO NOT NEED TO BE STABILIZED DURING TEMPORARY PERIOD OF USE AND SHALL BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER USED AS SEDIMENT CONTAINMENT.
 - 22.4. MULCH, HYDROMULCH, TACKIFIER, OR OTHER SIMILAR PRACTICE SHALL NOT BE USED IN ANY PORTION OF THE WETTED PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
 - 22.5. ENERGY DISSIPATION SHALL BE INSTALLED AT ALL TEMPORARY OR PERMANENT PIPE OUTLETS WITHIN 24 HOURS OF CONNECTION TO A SURFACE WATER OR PERMANENT STORM WATER TREATMENT SYSTEM.
 - 22.6. THE CONTRACTOR SHALL PHASE CONSTRUCTION AND USE CONSTRUCTION METHODS TO THE EXTENT PRACTICAL TO MINIMIZE EXPOSED SOILS. THE PROJECT PHASING SHALL BE DOCUMENTED IN THE WEEKLY EROSION AND SEDIMENT CONTROL SCHEDULE.
23. SEDIMENT CONTROL PRACTICES:
 - 23.1. DOWN GRADIENT BMP'S, INCLUDING PERIMETER BMP'S, MUST BE IN PLACE BEFORE UP GRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION.
 - 23.2. ALL BMP'S THAT HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SHALL BE REINSTALLED OR REPLACED THE EARLIER OF THE END OF THE WORK DAY OR BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE ACTIVITY IS NOT COMPLETE.
 - 23.3. INLET BMP'S MAY BE REMOVED FOR SPECIFIC SAFETY CONCERNS. THE BMP'S SHALL BE REPLACED AS SOON AS THE SAFETY CONCERN IS RESOLVED. THE REMOVAL SHALL BE DOCUMENTED IN THE SWPPP AS A SWPPP AMENDMENT.
 - 23.4. TEMPORARY STOCKPILES MUST HAVE SEDIMENT CONTROL BMP'S. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A SWPPP AMENDMENT SHOWING THE LOCATION OF TEMPORARY STOCKPILES AND THE BMP'S FOR EACH STOCKPILE. THE SWPPP AMENDMENT MUST MEET THE MINIMUM REQUIREMENTS OF SECTION 9 OF THE PERMIT.
 - 23.5. SOIL COMPACTION SHALL BE MINIMIZED AND TOPSOIL SHALL BE PRESERVED, UNLESS INFEASIBLE OR IF CONSTRUCTION ACTIVITIES DICTATE SOIL COMPACTION OR TOPSOIL STRIPPING.
 - 23.6. THE USE OF POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS ARE NOT PROPOSED AS PART OF THIS SWPPP AS DESIGNED BY THE ENGINEER. IF METHODS OR PHASING OF CONSTRUCTION REQUIRE THE USE OF ANY OF THESE CHEMICALS, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A SWPPP AMENDMENT THAT MEETS THE MINIMUM REQUIREMENTS OF SECTION 09 OF THE PERMIT.
24. TEMPORARY SEDIMENTATION BASIN:
 - 24.1. A TEMPORARY SEDIMENTATION BASIN HAS NOT BEEN INCLUDED IN THIS SWPPP AS DESIGNED BY THE ENGINEER. IF A BASIN IS LATER DETERMINED TO BE DESIRABLE OR NECESSARY, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A SWPPP AMENDMENT. TEMPORARY SEDIMENTATION BASINS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF SECTION 14 OF THE PERMIT AND SHALL INCLUDE A BASIN DRAINING PLAN MEETING OR EXCEEDING THE MINIMUM REQUIREMENTS OF SECTION 10 OF THE PERMIT. WHERE THE SITE DISCHARGES TO SPECIAL AND/OR IMPAIRED WATERS, THE SWPPP AMENDMENT SHALL ALSO MEET OR EXCEED THE MINIMUM REQUIREMENTS OF SECTION 23 OF THE PERMIT.
25. DEWATERING:
 - 25.1. A DEWATERING PLAN HAS NOT BEEN INCLUDED IN THIS SWPPP AS DESIGNED BY THE ENGINEER. IF DEWATERING IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A SWPPP AMENDMENT. ALL DEWATERING SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF SECTION 10 OF THE PERMIT.
26. FINAL STABILIZATION:
 - 26.1. FINAL STABILIZATION IS NOT COMPLETE UNTIL ALL THE FOLLOWING REQUIREMENTS HAVE BEEN MET:
 - 26.1.1. SUBSTANTIAL COVER HAS BEEN REACHED AND NO GROUND DISTURBING ACTIVITIES ARE ANTICIPATED.
 - 26.1.2. PERMANENT COVER HAS BEEN INSTALLED WITH AN ESTABLISHED MINIMUM UNIFORM PERENNIAL VEGETATION DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED IN AREAS WHERE NO VEGETATION IS PROPOSED BY THIS PROJECT SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER.
 - 26.1.3. ACCUMULATED SEDIMENT HAS BEEN REMOVED FROM ALL PERMANENT STORM WATER TREATMENT SYSTEMS AS NECESSARY TO ENSURE THE SYSTEM IS OPERATING AS DESIGNED.
 - 26.1.4. ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS.
 - 26.1.5. ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMP'S HAVE BEEN REMOVED. BMP'S DESIGNATED ON THE SWPPP TO REMAIN TO DECOMPOSE ON-SITE MAY REMAIN.
27. TERMINATION OF COVERAGE:
 - 27.1. PERMITEE(S) WISHING TO TERMINATE COVERAGE MUST SUBMIT A NOTICE OF TERMINATION TO THE MPCA. ALL PERMITEE(S) MUST SUBMIT A NOTICE OF TERMINATION WITHIN 30 DAYS AFTER ONE OR MORE OF THE FOLLOWING CONDITIONS HAVE BEEN MET:
 - 27.1.1. FINAL STABILIZATION, PER SECTION 9 OF THE PERMIT HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITEE IS RESPONSIBLE.
 - 27.1.2. TRANSFER OF OWNERSHIP AS DESCRIBED IN THE PERMIT.

SURFACE WATERS WITHIN 1-MILE OF SITE



RECEIVING WATERS

NAME OF WATER BODY	TYPE OF WATER BODY	SPECIAL WATER	IMPAIRED WATER
MISSISSIPPI	RIVER	YES	YES

MPCA COVERAGE LETTER
(PROVIDED AT A LATER DATE)

PERMANENT STORMWATER MANAGEMENT SYSTEM

	INFILTRATION/FILTRATION
	WET SEDIMENTATION BASIN
X	REGIONAL PONDING
	PERMANENT STORMWATER MANAGEMENT NOT REQUIRED

ESTIMATED BMP QUANTITIES

DESCRIPTION	QUANTITY	UNIT
ROCK CONSTRUCTION ENTRANCE (1" - 2" WASHED ROCK)	50	TONS
SILT FENCE	5,050	L.F.
EROSION CONTROL BLANKET (CATEGORY 20)	2,530	S.Y.

SITE STABILIZATION COMPLETION:
STABILIZATION OF EXPOSED SOILS SHALL BEGIN IMMEDIATELY AND SHALL BE COMPLETED AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED NO LATER THAN 7 DAYS

SITE INSPECTION INTERVAL:
A TRAINED PERSON SHALL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE DURING ACTIVE CONSTRUCTION AT AN INTERVAL OF NO MORE THAN: 7 DAYS

RESPONSIBLE PARTIES

THE CONTRACTOR AND OWNER WILL BE JOINT APPLICANTS UNDER THE MPCA'S GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY AS REQUIRED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II PROGRAM.

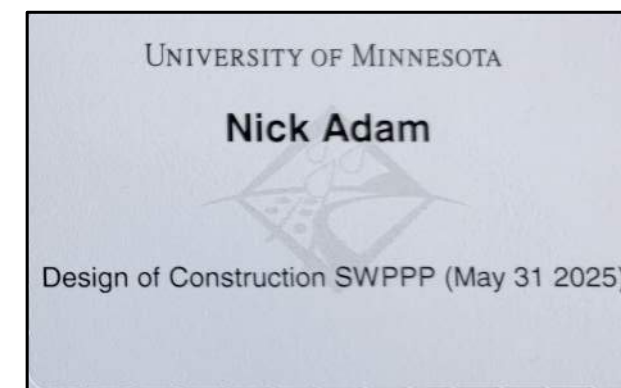
THE CONTRACTOR SHALL PROVIDE ONE OR MORE TRAINED CONSTRUCTION SWPPP MANAGER(S) KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMP'S THAT WILL OVERSEE THE IMPLEMENTATION OF THE SWPPP, AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMP'S.

A CONSTRUCTION SWPPP MANAGER MUST BE AVAILABLE FOR AN ON-SITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

THE SWPPP DESIGNER, CONSTRUCTION SWPPP MANAGER, AND BMP INSTALLER MUST HAVE APPROPRIATE TRAINING. DOCUMENTATION SHOWING TRAINING COMMENSURATE WITH THE JOB DUTIES AND RESPONSIBILITIES IS REQUIRED TO BE INCLUDED IN THE SWPPP PRIOR TO ANY WORK BEGINNING ON THE SITE. TRAINING DOCUMENTATION FOR THE SWPPP DESIGNER IS INCLUDED BELOW. THE CONTRACTOR SHALL ATTACH TRAINING DOCUMENTATION TO THIS SWPPP FOR THE CONSTRUCTION SWPPP MANAGER AND BMP INSTALLER PRIOR TO THE START OF CONSTRUCTION. THIS INFORMATION SHALL BE KEPT UP TO DATE UNTIL THE PROJECT NOTICE OF TERMINATION IS FILED.

OWNER:
BY: CITY OF RAMSEY
NAME: MARK RIVERBLOOD
TITLE: PARKS & ASSISTANT PUBLIC WORKS DIRECTOR
PHONE: 763-433-9853
EMAIL: MRIVERBLOOD@CITY.RAMSEY.MN.US

SWPPP DESIGNER:
NAME: REHDER & ASSOCIATES, INC.
NAME: NICHOLAS ADAM, P.E.
TITLE: PROJECT ENGINEER
PHONE: 651-337-6729
EMAIL: NADAM@REHDER.COM



CONTRACTOR:
BY: XXXXXXXXXXXXXXX
NAME: XXXXXXXXXXXXXXX
TITLE: XXXXXXXXXXXXXXX
PHONE: XXXXXXXXXXXXXXX
EMAIL: XXXXXXXXXXXXXXX



**DAMON FARBER
LANDSCAPE ARCHITECTS**

310 South 4th Avenue, Suite 7050
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Project No: 221-3242-012
PROJECT NO.: 221-3242-018
DRAWING FILE: 3242018.DWG

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EARTHWORK, UTILITIES & TRAIL
PAVING

**THE
WATERFRONT
TRAIL
IMPROVEMENTS**

RAMSEY, MN

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Name: Nicholas P. Adam
Registration#: 43856

Signature: Nicholas P. Adam
Date: 04/05/2024

Date: 04/05/2024

Df/ Project #: 23-176

Scale: 1 INCH = 30 FEET

Drawn/Checked: BJQ/NPA

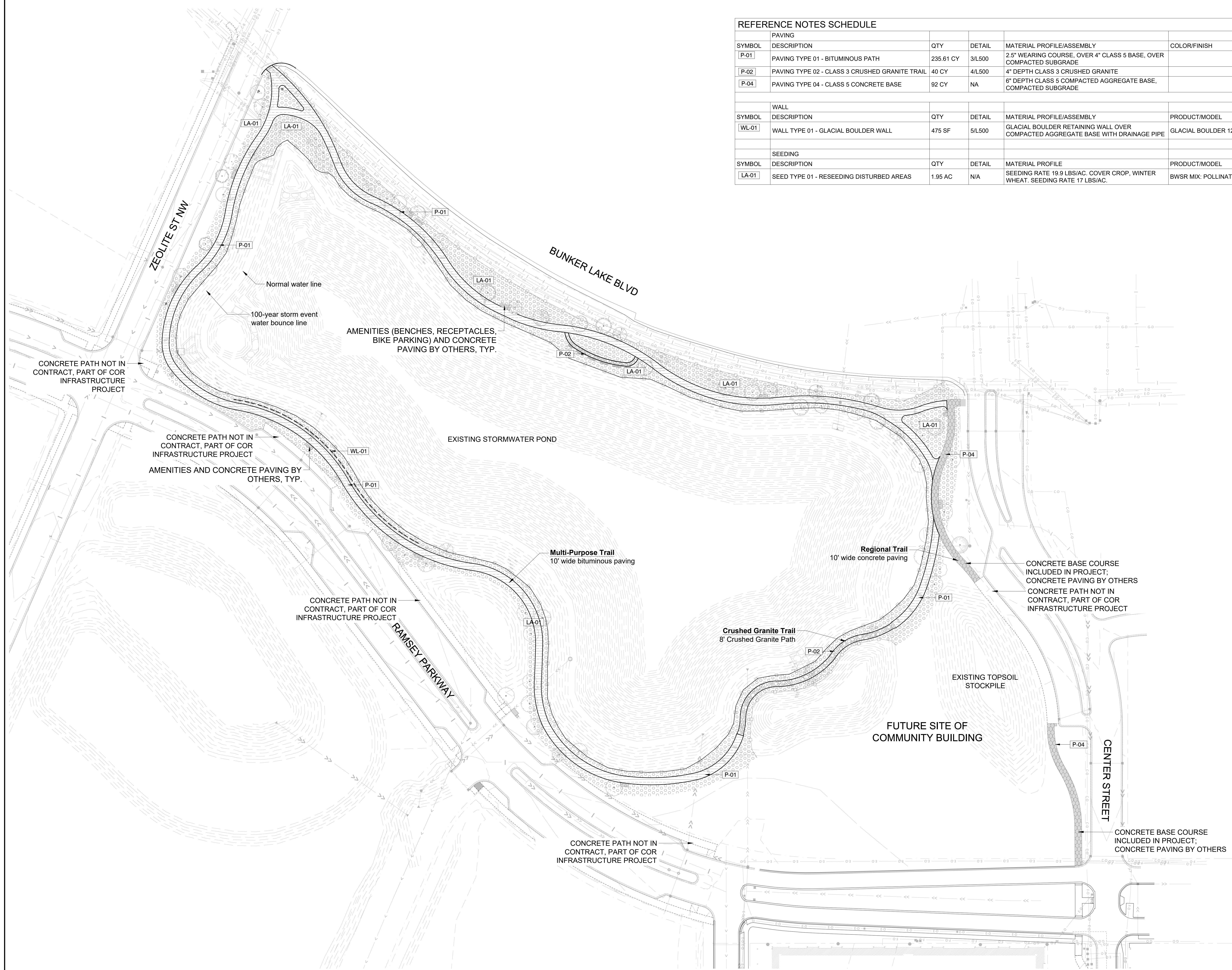
REVISION: --

SWPPP

C104

REFERENCE NOTES SCHEDULE

PAVING					
SYMBOL	DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	COLOR/FINISH
P-01	PAVING TYPE 01 - BITUMINOUS PATH	235.61 CY	3/L500	2.5" WEARING COURSE, OVER 4" CLASS 5 BASE, OVER COMPACTED SUBGRADE	
P-02	PAVING TYPE 02 - CLASS 3 CRUSHED GRANITE TRAIL	40 CY	4/L500	4" DEPTH CLASS 3 CRUSHED GRANITE	
P-04	PAVING TYPE 04 - CLASS 5 CONCRETE BASE	92 CY	NA	6" DEPTH CLASS 5 COMPACTED AGGREGATE BASE, COMPACTED SUBGRADE	
WALL					
SYMBOL	DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE/ASSEMBLY	PRODUCT/MODEL
WL-01	WALL TYPE 01 - GLACIAL BOULDER WALL	475 SF	5/L500	GLACIAL BOULDER RETAINING WALL OVER COMPACTED AGGREGATE BASE WITH DRAINAGE PIPE	GLACIAL BOULDER 12"-36"
SEEDING					
SYMBOL	DESCRIPTION	QTY	DETAIL	MATERIAL PROFILE	PRODUCT/MODEL
LA-01	SEED TYPE 01 - RESEEDING DISTURBED AREAS	1.95 AC	N/A	SEEDING RATE 19.9 LBS/AC. COVER CROP, WINTER WHEAT. SEEDING RATE 17 LBS/AC.	BWSR MIX: POLLINATOR PLOT URBAN SE 38-631



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EARTHWORK, UTILITIES & TRAIL PAVING

THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MINNESOTA

I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed Landscape Architect under the laws of the State of Minnesota.

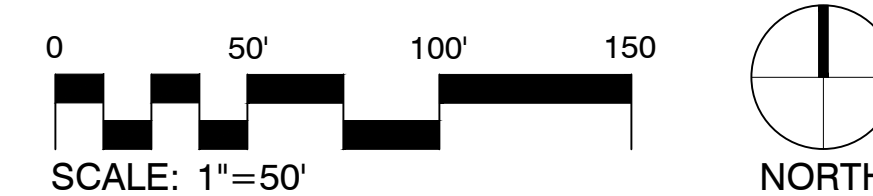
Name: Charles Evens
Registration#: 50575
Signature: *Charles Evens*
Date: 04/05/2024

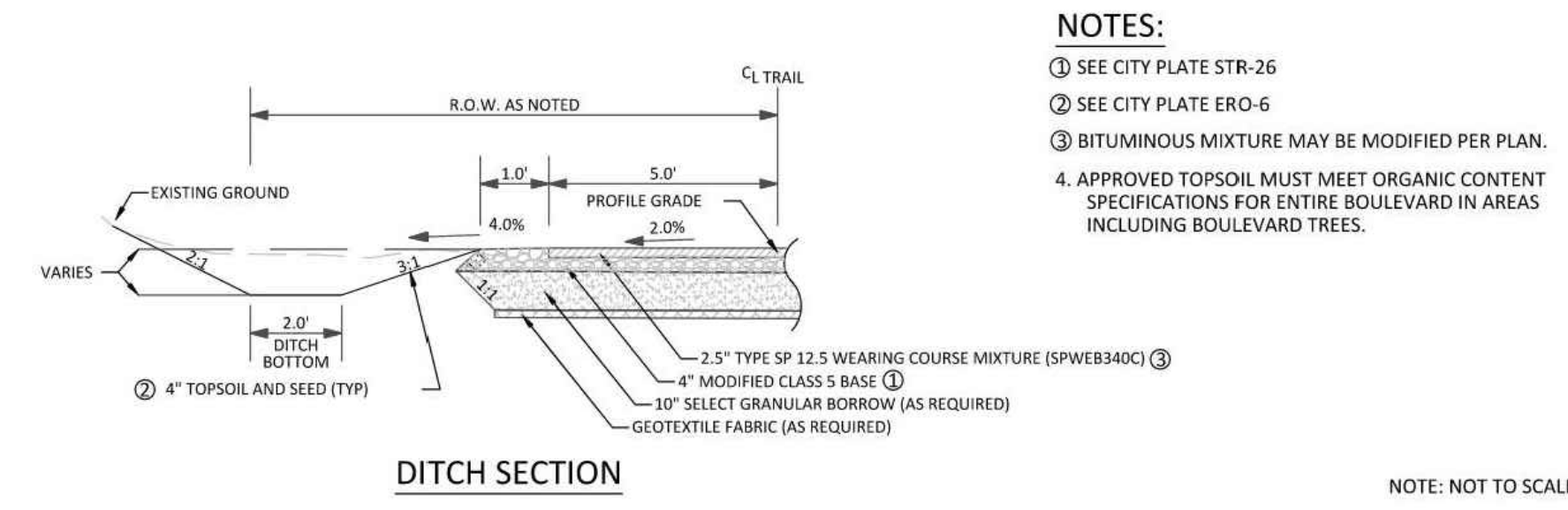
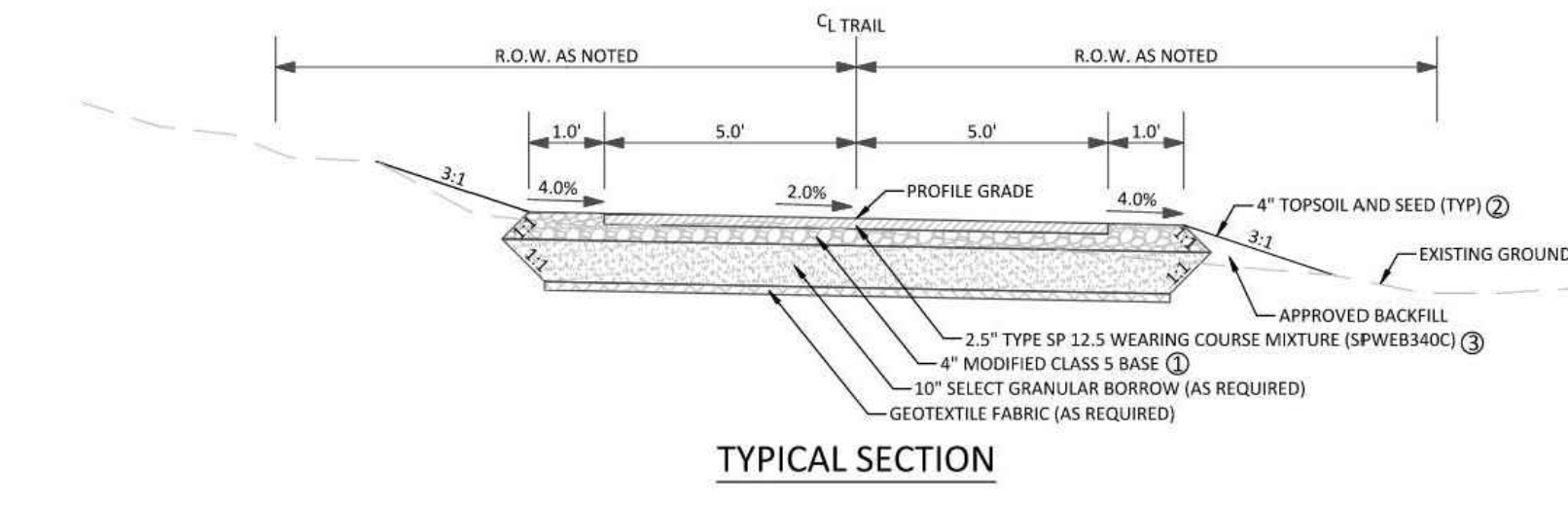
Date: 04/05/2024
DF/ Project #: 23-176
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Drawn/Checked: AG/CE

REVISION	

SITE MATERIALS PLAN

L110



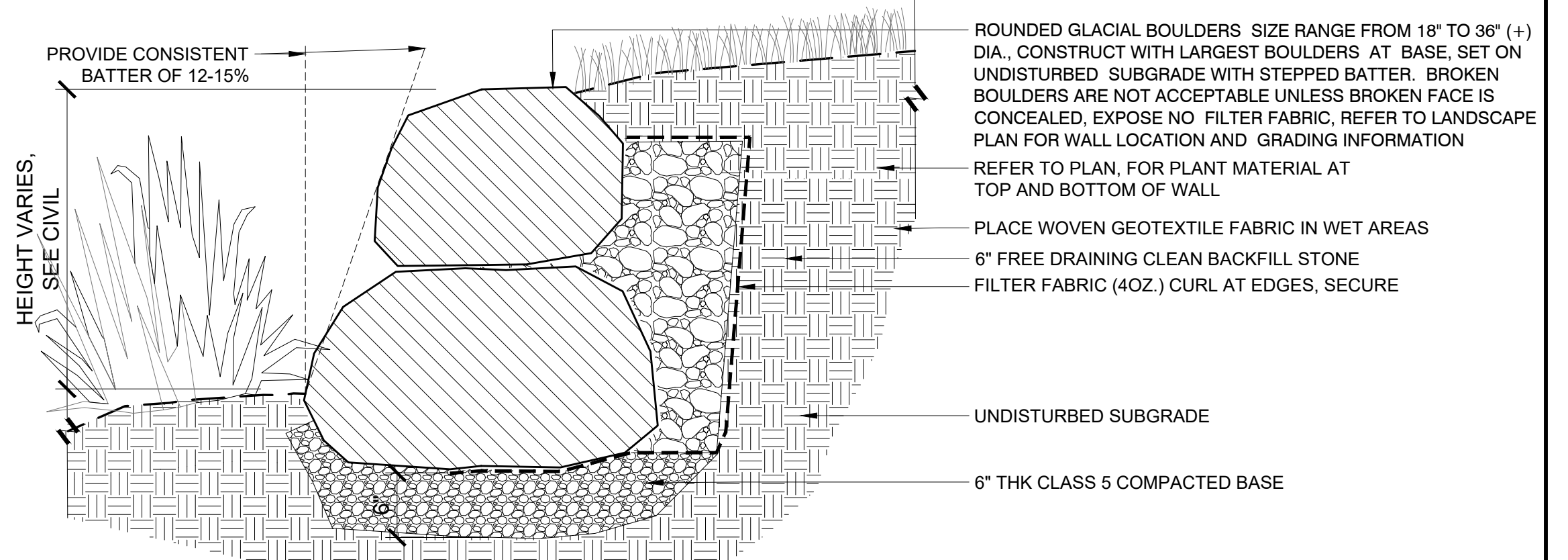


NOTES:
 ① SEE CITY PLATE STR-26
 ② SEE CITY PLATE ERO-6
 ③ BITUMINOUS MIXTURE MAY BE MODIFIED PER PLAN.
 4. APPROVED TOPSOIL MUST MEET ORGANIC CONTENT SPECIFICATIONS FOR ENTIRE BOULEVARD IN AREAS INCLUDING BOULEVARD TREES.

3 DETAIL-BITUMINOUS TRAIL SECTION - STANDARD
NTS

P-23 176-92

- NOTES:**
- REFER TO CIVIL PLAN FOR LOCATION, TOP OF WALL AND BOTTOM OF WALL ELEVATIONS.
 - BOULDERS SHALL BE STABLE AND FREE FROM MOVEMENT.
 - SELECT BOULDERS FOR APPROPRIATE SCALE AND FIT WITH ADJACENT BOULDERS
 - INSTALL LARGEST BOULDERS ON THE BOTTOM COURSE
 - PROPERLY SELECTED BOULDERS WILL LIMIT SIZE OF VOIDS AND PROVIDE SECURE WALL
 - ENSURE GOOD CONTACT BETWEEN ADJACENT BOULDERS
 - PROVIDE SOLID INSTALLATION WITHOUT MOVEMENT OF INDIVIDUAL BOULDERS
 - SELECT BOULDERS FOR APPROPRIATE SCALE AND FIT WITH ADJACENT BOULDERS
 - INSTALL LARGEST BOULDERS ON THE BOTTOM COURSE
 - PROPERLY SELECTED BOULDERS WILL LIMIT SIZE OF VOIDS AND PROVIDE SECURE WALL
 - ENSURE GOOD CONTACT BETWEEN ADJACENT BOULDERS
 - PROVIDE SOLID INSTALLATION WITHOUT MOVEMENT OF INDIVIDUAL BOULDERS



2 WALL TYPE 01 - BOULDER RETAINING WALL
1\"/>

P-23 176-14

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EARTHWORK, UTILITIES & TRAIL PAVING

THE WATERFRONT TRAIL IMPROVEMENTS

RAMSEY, MINNESOTA

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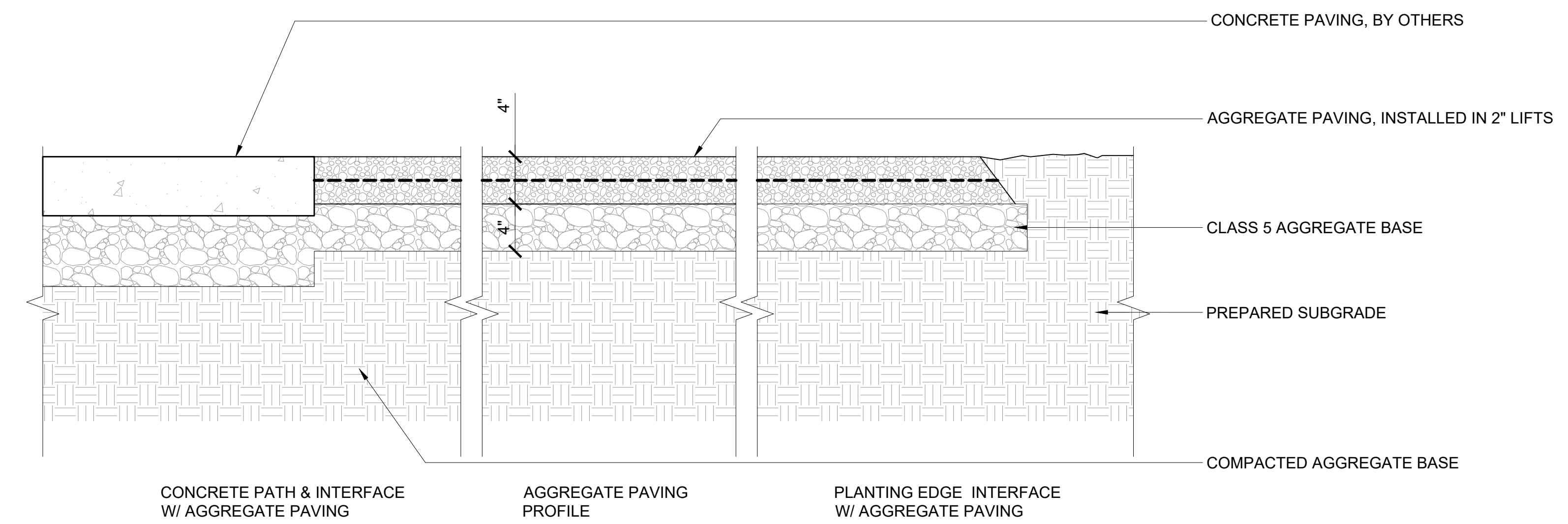
Name: Charles Evens
 Registration#: 50575
 Signature: *Charles Evens*
 Date: 04/05/2024

Date: 04/05/2024
 DF/ Project #: 23-176
 Scale: AS SHOWN
 Drawn/Checked: AG/CE

REVISION	

SITE DETAILS

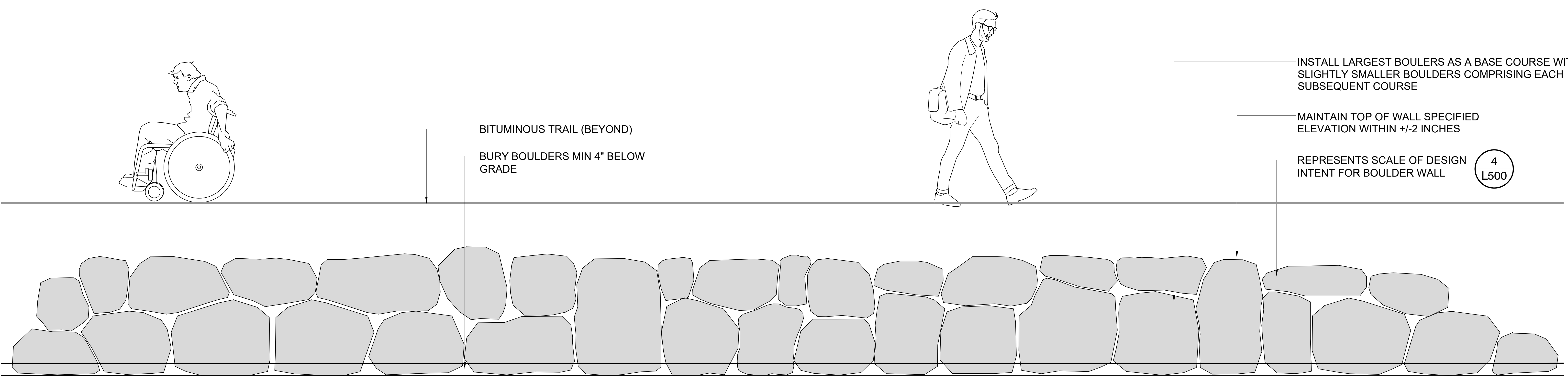
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4 DETAIL - AGGREGATE PAVING
1 1/2\"/>

2 WALL TYPE 01 - BOULDER RETAINING WALL
1\"/>

P-23 176-14



1 WALL TYPE 01 - BOULDER RETAINING WALL ELEVATION
3/4\"/>

P-23 176-94