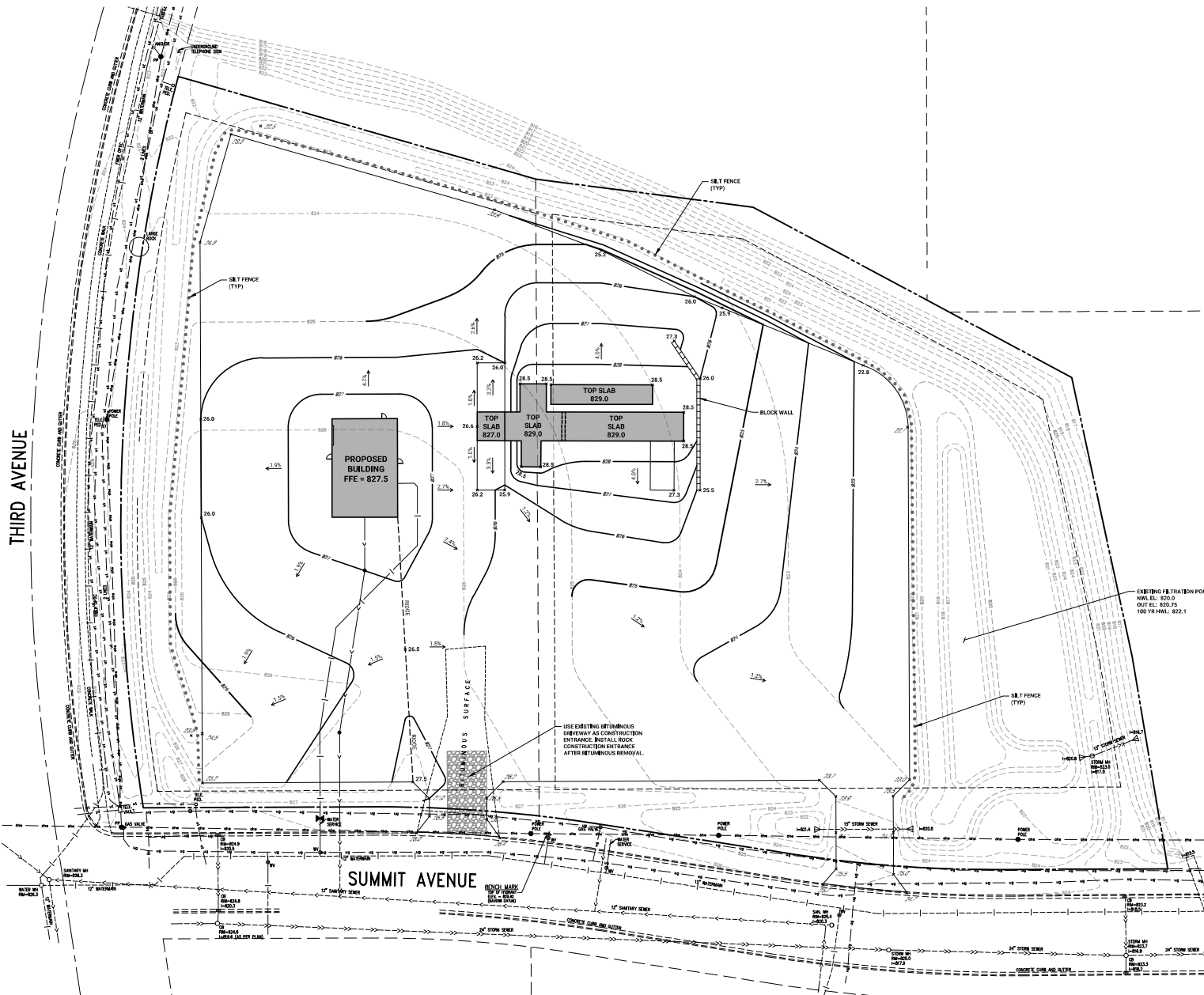


10/18/2019 11:41 AM C:\Users\j\Documents\Projects\100 Summit Avenue\100 Summit Avenue.dwg User: j Date: 10/18/2019 Time: 11:41 AM



LEGEND

EXISTING	PROPOSED	PROPERTY LINE
---	---	EASEMENT LINE
---	---	CURB LINE
---	---	CONCRETE PAVEMENT
---	---	CL 5 AGGREGATE BASE
---	---	CONCRETE WALK
---	---	BITUMINOUS PAVEMENT
---	---	SANITARY SEWER
---	---	STORM SEWER
---	---	WATER MAIN
---	---	UNDERGROUND GAS
---	---	UNDERGROUND ELECTRIC
---	---	UNDERGROUND TELEPHONE
---	---	OVERHEAD ELECTRIC
---	---	MANHOLE
---	---	CATCH-BASE
---	---	HYDRANT
---	---	WATER VALVE
---	---	UTILITY POLE
---	---	ELECTRIC BOX
---	---	TELEPHONE PEDESTAL
---	---	GUY WIRE
---	---	TREE LINE
---	---	10' CONTOUR
---	---	2' CONTOUR
---	---	SPOT ELEVATION (CURB ELEVATIONS ARE TO GUTTER LINE)
---	---	T 44.3
---	---	Q 43.8
---	---	TOP OF CURB ELEV. GUTTER LINE ELEV.
---	---	SELT FENCE

BENCHMARK

TOP HWT OF HYDRANT ON NORTH SIDE OF SUMMIT AVENUE, JUST EAST OF WEST ACCESS DRIVEWAY
ELEVATION: 829.42 (NAVD 88)

GOVERNING SPECIFICATIONS

- THE LATEST EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE CITY OF MANKATO SPECIFICATIONS.
- THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE LATEST EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATIONS.

GRADING NOTES

- VEHICLE TRACKING REDUCTION DEVICE, SELT FENCE AND EXISTING CATCH BASIN/INLET PROTECTION SHALL BE INSTALLED PRIOR TO GRADING CONSTRUCTION AND SHALL BE MAINTAINED UNTIL THE SITE HAS BEEN STABILIZED.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO THE START OF GRADING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF DISCREPANCIES OR VARIATIONS FROM THE PLAN.
- CONTRACTOR SHALL STRIP, STOCKPILE AND RESPADE SUFFICIENT TOPSOIL TO PROVIDE A MINIMUM OF 6" OF TOPSOIL OVER ALL DISTURBED AREAS THAT WILL BE SOILED, SEED OR LANDSCAPED.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 CALENDAR DAYS AFTER LAND-RESTORING WORK HAS TEMPORARILY OR PERMANENTLY CEASED.
- ALL SLOPES STEEPER THAN 3:1 SHALL HAVE MINOT CAT.1 GROSBEN CONTROL BLANKET AND SEED, OR APPROVED EQUAL.
- STOCKPILES SHALL BE STABILIZED WITHIN 14 DAYS OF ROUGH GRADING OR INACTIVITY.
- ALL WORK WITHIN THE ADJACENT STREET RIGHTS OF WAY MUST BE COORDINATED WITH AND APPROVED BY THE CITY PUBLIC WORKS DEPARTMENT.

OWNER

CEMSTONE COMPANIES
2025 Centre Pointe Blvd, Suite 300
Mendota Heights, MN 55120

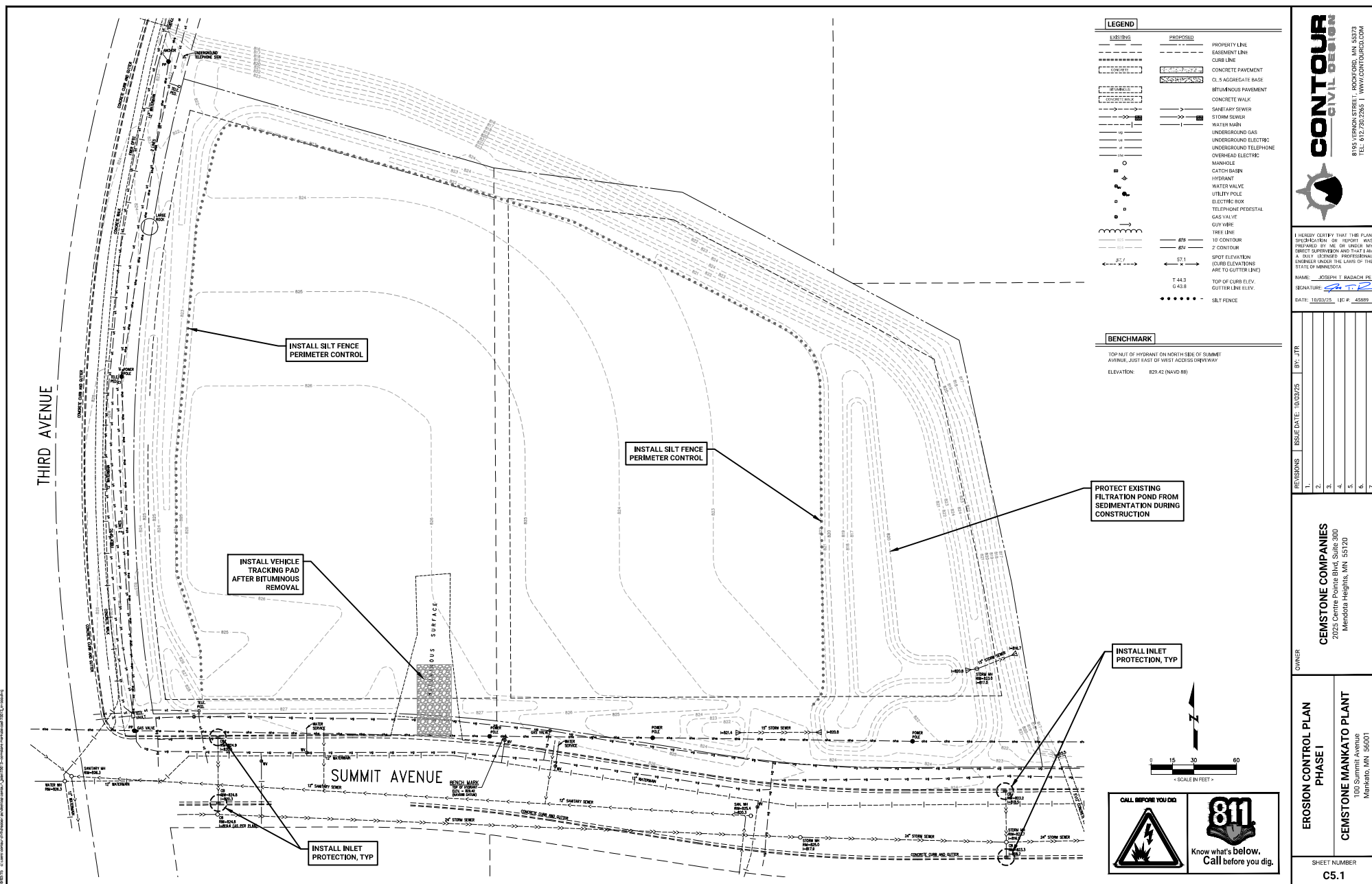
GRADING AND DRAINAGE PLAN

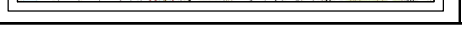
CEMSTONE MANKATO PLANT
100 Summit Avenue
Mankato, MN 56001

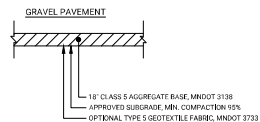
CALL BEFORE YOU DIG

811
Know what's below.
Call before you dig.

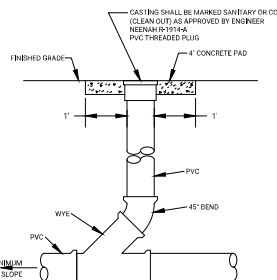
SHEET NUMBER
C4.1







NO SCALE



2 NO SCALE

STABILIZED, ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL FROST WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED NO LATER THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABILIZATION IS NOT REQUIRED ON CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS AND SURVIVAL OFFICES. STABILIZATION IS NOT REQUIRED ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) BUT PERMITTEES MUST PROVIDE SEDIMENT CONTROLS AT THE BASE OF THE STOCKPILE.

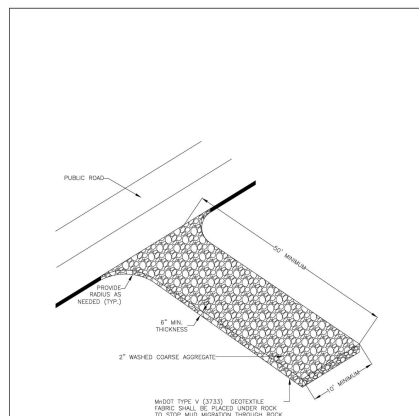
TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH MNDOT 2575 AND SHALL BE AS FOLLOWS:

SEED:	21-111 AT 100 LBS PER ACRE OR 21-112 AT 100 LBS PER ACRE
MULCH:	TYPE 1 AT 2 TONS PER ACRE
FERTILIZER:	10-20-20 AT 300 LBS PER ACRE

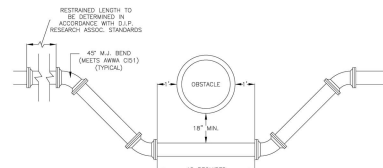
PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH MNDOT 2575 AND SHALL BE AS FOLLOWS, UNLESS SHOWN OTHERWISE ON THE PLAN:

SEED: 25-131 AT 220 LBS PER ACRE OR 25-141 AT 59 LBS PER ACRE
MULCH: TYPE 1 AT 2 TONS PER ACRE
FERTILIZER: 10-10-10 AT 200 LBS PER ACRE

3 NO SCALE



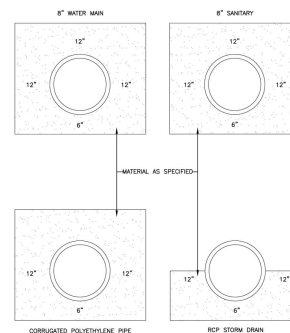
APPROVED  Digitally signed by Michael J. McCarty DN: cn=Michael J. McCarty, ou=City of Mankato, o=City of Mankato, email=mccarty.michael@cityofmankato.com, c=US Date: 2003.10.29 12:34:05-0500 CITY OF MANKATO	CITY OF MANKATO ENGINEERING STABILIZED CONSTRUCTION EXIT	SPECIFICATION REFERENCE	STANDARD PLATE NO. 2003A
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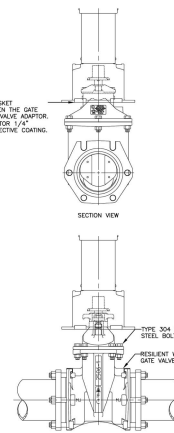
NOTES:

1. FITTINGS SHALL BE RESTRAINED WITH THE USE OF APPROVED MECHANICAL JOINT RESTRAINING GLANDS.
2. FITTINGS AND GLANDS SHALL BE EPOXY COATED, FLUOROCARBON COATED, OR BOTH SHALL BE PLASTICIZED AND PAINT PROOF, STRENGTHENED, BURN, FLAME, AND WEAR RESISTANT.

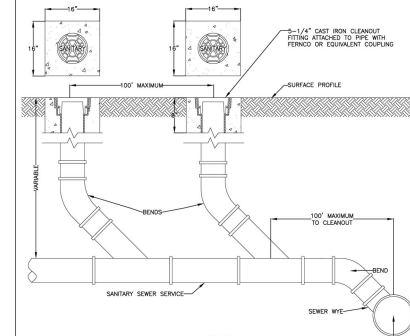
APPROVED  Michael J. McCarty Date: 2022.10.28 12-345678	CITY OF MANHATTAN ENGINEERING WATERMAIN CONSTRUCTION AROUND OBSTACLES	SPECIFICATION REFERENCE	STANDARD PLATE NO. 2320A
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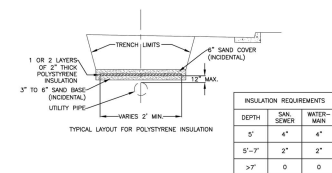
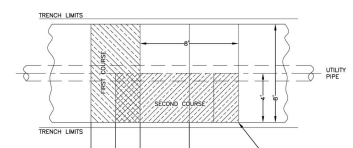
APPROVED:  Michael J. McCarty Deputy Engineer Date: 2022.10.28 12-14109-0000 CDM, ENGINEER	CITY OF MANKATO ENGINEERING GRANULAR BEDDING & ENCASEMENT	SPECIFICATION REFERENCE	STANDARD PLATE NO. 2100
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APPROVED  Michael J. McCarty	CITY OF MANKATO ENGINEERING GATE VALVE ADAPTOR	SPECIFICATION REFERENCE	STANDARD PLATE NO. 2321
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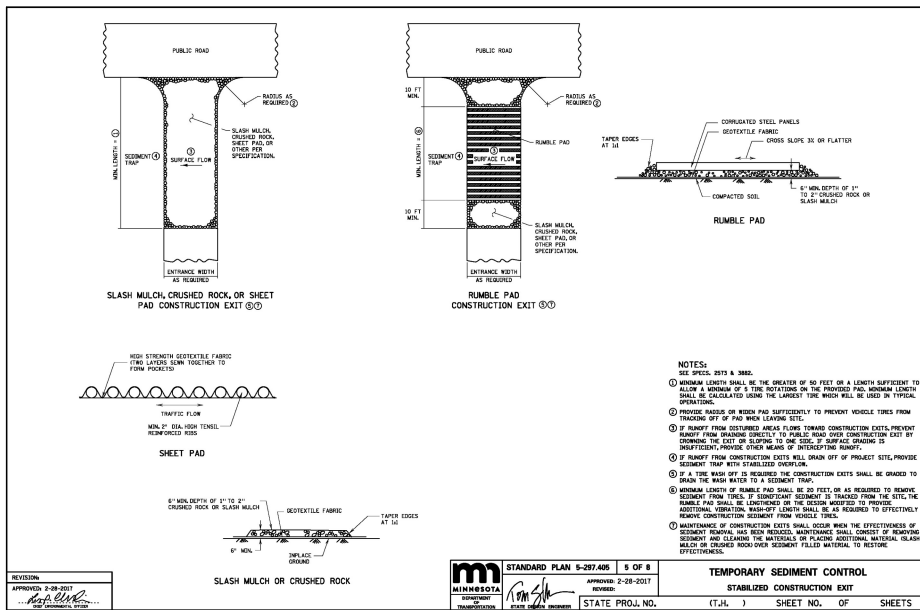
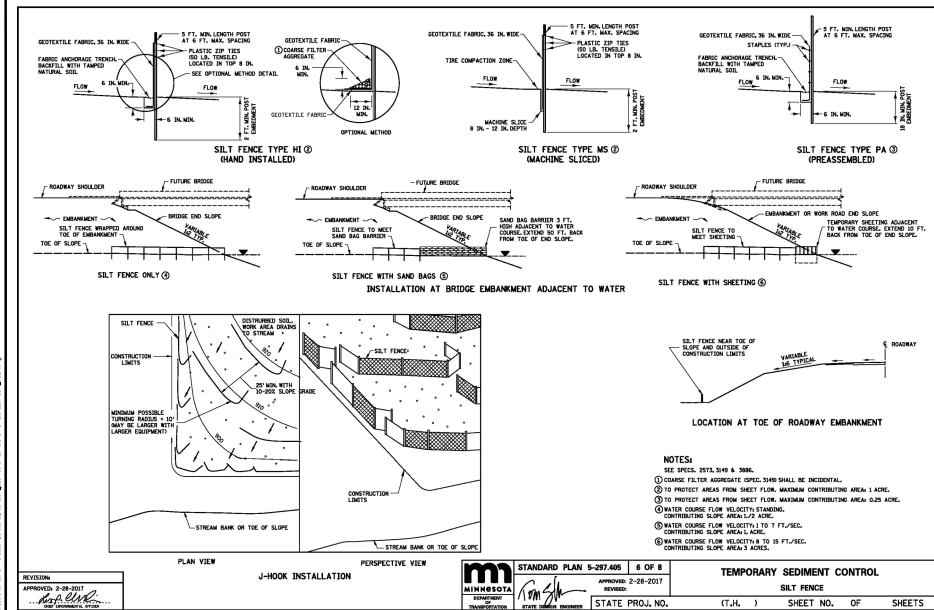
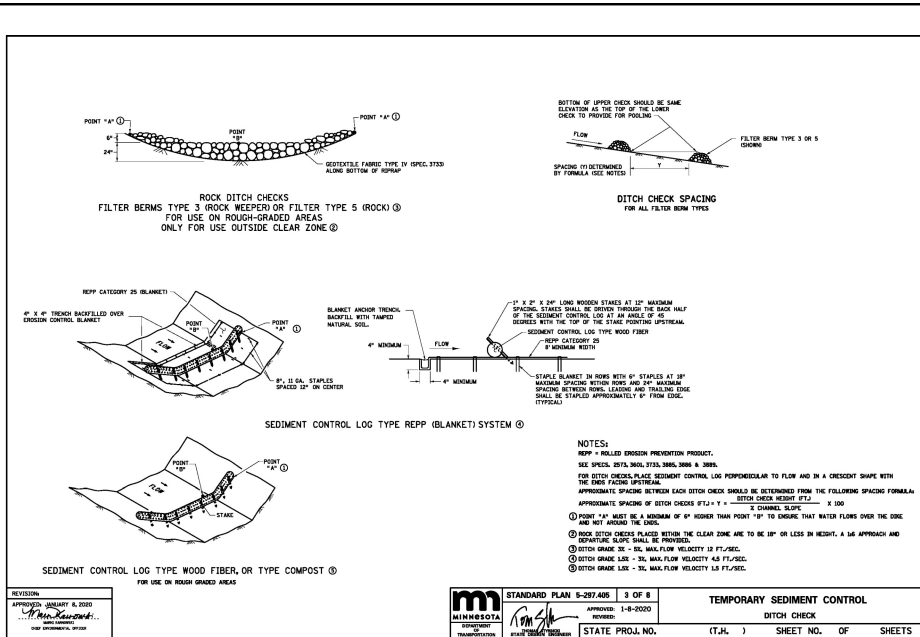
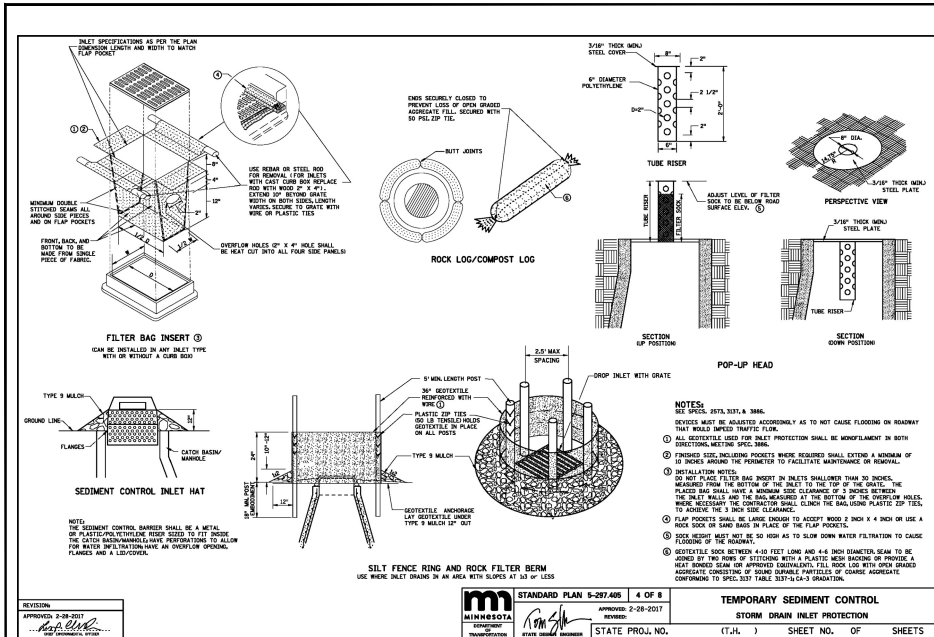
APPROVED  Digitally signed by Michael J. McCarthy Date: 2020.10.28 12:34:06 -0700 CITY ENGINEER	CITY OF MANKATO ENGINEERING SANITARY SERVICE CLEANOUT	SPECIFICATION REFERENCE STANDARD PLATE NO. 2242
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NOTES:

1. INSULATION BOARD SHALL BE AS PER MN/DOT SPEC. 3760.
2. FOR WATERMAN WITH NO SERVICE CONNECTIONS OR FOR WATERMAN OUTSIDE OF PAVED AREAS WHERE SNOW IS NOT REMOVED, NO INSULATION IS REQUIRED IF COVER IS AT LEAST 6".
3. INSULATION BOARD SHALL BE PAID FOR AS 2503.606.2 "OR" 4" INSULATION WHERE APPLICABLE AT THE PRICE BID PER SQ. YD.
4. 1" FOR SANITARY AND CATCH SHALL BE 20% INCREASE ABOVE 4" FOR WATERMAN SHALL BE 20% OF THE PRICE BID PER SQ. YD.

APPROVED _____  Digitally signed by Michael J. McCarty Date: 2022.10.28 12:34:27 -0500	CITY OF MANKATO ENGINEERING POLYSTYRENE INSULATION	SPECIFICATION REFERENCE	STANDARD PLATE NO. 2323
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CONTOUR
CIVIL DESIGN

8175 VERNON STREET, ROCKFORD, MN 56273
TEL: 762.250.2335 | WWW.CONTOURCIVIL.COM

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

NAME: JOSEPH T. BACHMANN, PE
SIGNATURE: [Signature]
DATE: 10/03/25, LIC #: 45889

REVISIONS

NO.	DATE	DESCRIPTION
1	10/03/25	5/1-JTB
2		
3		
4		
5		
6		
7		

OWNER

CEMSTONE COMPANIES
2025 Centre Pointe Blvd, Suite 300
Mendota Heights, MN 55120

DETAILS

CEMSTONE MAKATO PLANT
100 Summit Avenue
Mankato, MN 56001

SHEET NUMBER

C6.2