

TRIPOINT DEVELOPMENT LLC

CONSTRUCTION PLANS FOR

TRIPOINT DEVELOPMENT - RIVER HILLS MALL

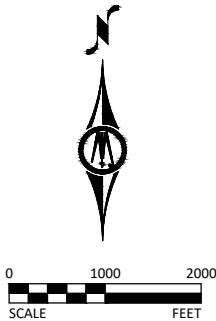
SITE GRADING, PAVEMENT AND SIDEWALK CONSTRUCTION  
WATER MAIN, SANITARY SEWER AND STORM SEWER INSTALLATION

MARCH, 2026

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL "D". THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES."

MAP OF THE  
CITY OF MANKATO  
BLUE EARTH COUNTY, MN



| SHEET NUMBER                         | SHEET TITLE                        |
|--------------------------------------|------------------------------------|
| GENERAL                              |                                    |
| G0.01                                | TITLE SHEET                        |
| G0.02                                | LEGEND                             |
| G2.01                                | PROJECT OVERVIEW                   |
| CIVIL                                |                                    |
| C0.01                                | EXISTING CONDITIONS & REMOVAL PLAN |
| C1.01 - C1.10                        | CONSTRUCTION DETAILS               |
| STORMWATER POLLUTION PREVENTION PLAN |                                    |
| C2.01                                | PROJECT INFORMATION & LOCATION MAP |
| C2.02                                | NARRATIVE                          |
| C2.03                                | SITE & SOILS MAP                   |
| C2.04 - C2.05                        | BEST MANAGEMENT PRACTICE DETAILS   |
| C2.06                                | EROSION & SEDIMENT CONTROL PLAN    |
| GRADING PLAN                         |                                    |
| C3.01                                | GRADING PLAN                       |
| SANITARY & WATER SERVICE PLAN        |                                    |
| C4.01                                | SANITARY & WATER SERVICE PLAN      |
| STORM SEWER PLAN                     |                                    |
| C5.01                                | STORM SEWER PLAN                   |
| SITE PLAN                            |                                    |
| C6.01                                | SITE PLAN                          |
| LANDSCAPE                            |                                    |
| L1.01                                | LANDSCAPE PLAN                     |
| L1.02                                | LANDSCAPE NOTES & DETAILS          |

THIS PLAN SET CONTAINS 26 SHEETS.

SPECIFICATIONS REFERENCE:  
MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION  
CEAM STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION

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

WESLEY S. MENK, P.E.  
LIC. NO. 64053 DATE MM/DD/YYYY



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|                  |            |     |            |      |
|------------------|------------|-----|------------|------|
| DESIGNED         | WSC        | NO. | ISSUED FOR | DATE |
| DRAWN            | WSC        |     |            |      |
| CHECKED          | CJL        |     |            |      |
| CLIENT PROJ. NO. | 0M3.125986 |     |            |      |

|                                                                                                              |                                                                                                |                                                                    |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| BM=1007.87'<br>TOP NUT HYDRANT<br>NORTH SIDE OF ADAMS STREET,<br>MID-BLOCK BETWEEN SIOUX RD &<br>RAINTREE RD | PROJECT DATUM: BLUE EARTH COUNTY<br>HORIZONTAL: 2011 COUNTY COORDINATES<br>VERTICAL: NAVD 1988 | RECORD DRAWING<br>INFORMATION<br>OBSERVER:<br>CONTRACTOR:<br>DATE: |
|                                                                                                              | TRIPOINT DEVELOPMENT LLC                                                                       | SHEET                                                              |
|                                                                                                              | TRIPOINT DEVELOPMENT - RIVER HILLS MALL                                                        | G0.01                                                              |
| TITLE SHEET                                                                                                  |                                                                                                |                                                                    |

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EXISTING TOPOGRAPHIC SYMBOLS

|                                                                                     |                                 |                                                                                     |                           |
|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------|---------------------------|
|    | ACCESS GRATE                    |    | REGULATION STATION GAS    |
|    | AIR CONDITION UNIT              |    | SATELLITE DISH            |
|    | ANTENNA                         |    | SIGN TRAFFIC              |
|    | AUTO SPRINKLER CONNECTION       |    | SIGNAL CONTROL CABINET    |
|    | BARRICADE PERMANENT             |    | SOIL BORING               |
|    | BASKETBALL POST                 |    | SIREN                     |
|    | BENCH                           |    | TELEPHONE BOOTH           |
|    | BIRD FEEDER                     |    | TILE INLET                |
|    | BOLLARD                         |    | TILE OUTLET               |
|    | BUSH                            |    | TILE RISER                |
|    | CATCH BASIN RECTANGULAR CASTING |    | TRANSFORMER-ELECTRIC      |
|    | CATCH BASIN CIRCULAR CASTING    |    | TREE-CONIFEROUS           |
|    | CURB STOP                       |    | TREE-DEAD                 |
|    | CLEAN OUT                       |    | TREE-DECIDUOUS            |
|    | CULVERT END                     |    | TREE STUMP                |
|    | DRINKING FOUNTAIN               |    | TRAFFIC ARM BARRIER       |
|    | DOWN SPOUT                      |    | TRAFFIC SIGNAL            |
|    | ELECTRIC CAR CHARGE STATION     |    | TRASH CAN                 |
|    | FILL PIPE                       |    | UTILITY MARKER            |
|    | FIRE HYDRANT                    |    | VALVE                     |
|    | FLAG POLE                       |    | VALVE POST INDICATOR      |
|    | FLARED END / APRON              |    | VALVE VAULT               |
|    | FUEL PUMP                       |    | VAULT                     |
|    | GRILL                           |    | VENT PIPE                 |
|    | GUY WIRE ANCHOR                 |    | WATER SPIGOT              |
|    | HANDHOLE                        |    | WELL                      |
|   | HANDICAP SPACE                  |   | WETLAND DELINEATED MARKER |
|  | IRRIGATION SPRINKLER HEAD       |  | WETLAND                   |
|  | IRRIGATION VALVE BOX            |  | WET WELL                  |
|  | LIFT STATION CONTROL PANEL      |  | YARD HYDRANT              |

PROPOSED TOPOGRAPHIC SYMBOLS

|                                                                                     |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
|  | CLEANOUT                        |
|  | MANHOLE                         |
|  | LIFT STATION                    |
|  | STORM SEWER CIRCULAR CASTING    |
|  | STORM SEWER RECTANGULAR CASTING |
|  | STORM SEWER FLARED END / APRON  |
|  | STORM SEWER OUTLET STRUCTURE    |
|  | STORM SEWER OVERFLOW STRUCTURE  |
|  | CURB BOX                        |
|  | FIRE HYDRANT                    |
|  | WATER VALVE                     |
|  | WATER REDUCER                   |
|  | WATER BEND                      |
|  | WATER TEE                       |
|  | WATER CROSS                     |
|  | WATER SLEEVE                    |
|  | WATER CAP / PLUG                |
|  | RIP RAP                         |
|  | DRAINAGE FLOW                   |
|  | TRAFFIC SIGNS                   |

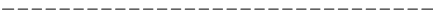
SURVEY SYMBOLS

|                                                                                     |                    |                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|--------------------|
|  | BENCHMARK LOCATION |  | CAST IRON MONUMENT |
|  | CONTROL POINT      |  | STONE MONUMENT     |
|  | MONUMENT FOUND     |                                                                                     |                    |

EXISTING TOPOGRAPHIC LINES

|                                                                                     |                  |
|-------------------------------------------------------------------------------------|------------------|
|  | RETAINING WALL   |
|  | FENCE            |
|  | FENCE-DECORATIVE |
|  | GUARD RAIL       |
|  | TREE LINE        |
|  | BUSH LINE        |

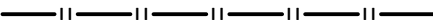
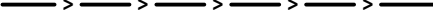
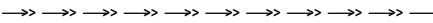
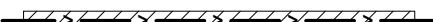
SURVEY LINES

|                                                                                     |                        |
|-------------------------------------------------------------------------------------|------------------------|
|  | CONTROLLED ACCESS      |
|  | BOUNDARY               |
|  | CENTERLINE             |
|  | EXISTING EASEMENT LINE |
|  | PROPOSED EASEMENT LINE |
|  | EXISTING LOT LINE      |
|  | PROPOSED LOT LINE      |
|  | EXISTING RIGHT-OF-WAY  |
|  | PROPOSED RIGHT-OF-WAY  |
|  | SETBACK LINE           |
|  | SECTION LINE           |
|  | QUARTER LINE           |
|  | SIXTEENTH LINE         |
|  | TEMPORARY EASEMENT     |

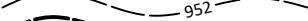
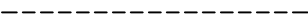
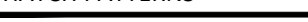
EXISTING UTILITY LINES

|                                                                                       |                        |
|---------------------------------------------------------------------------------------|------------------------|
|    | FORCEMAIN              |
|    | SANITARY SEWER         |
|    | SANITARY SERVICE       |
|   | STORM SEWER            |
|  | STORM SEWER DRAIN TILE |
|  | WATERMAIN              |
|  | WATER SERVICE          |
|  | RECLAIMED WATER        |

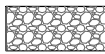
PROPOSED UTILITY LINES

|                                                                                       |                                |
|---------------------------------------------------------------------------------------|--------------------------------|
|  | FORCEMAIN                      |
|  | SANITARY SEWER                 |
|  | SANITARY SERVICE               |
|  | STORM SEWER                    |
|  | STORM SEWER DRAIN TILE         |
|  | WATERMAIN                      |
|  | WATER SERVICE                  |
|  | PIPE CASING                    |
|  | TRENCHLESS PIPE (PLAN VIEW)    |
|  | TRENCHLESS PIPE (PROFILE VIEW) |

GRADING INFORMATION

|                                                                                       |                                        |
|---------------------------------------------------------------------------------------|----------------------------------------|
|  | EXISTING CONTOUR MINOR                 |
|  | EXISTING CONTOUR MAJOR                 |
|  | PROPOSED CONTOUR MINOR                 |
|  | PROPOSED CONTOUR MAJOR                 |
|  | PROPOSED GRADING LIMITS / SLOPE LIMITS |
|  | PROJECT LIMITS                         |
|  | PROPOSED SPOT ELEVATION                |
|  | RISE:RUN (SLOPE)                       |

HATCH PATTERNS

|                                                                                       |            |                                                                                       |        |
|---------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|--------|
|  | BITUMINOUS |  | GRAVEL |
|  | CONCRETE   |                                                                                       |        |

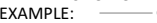
EXISTING PRIVATE UTILITY LINES

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|                                                                                     |                           |
|-------------------------------------------------------------------------------------|---------------------------|
|  | UNDERGROUND FIBER OPTIC   |
|  | UNDERGROUND ELECTRIC      |
|  | UNDERGROUND GAS           |
|  | UNDERGROUND COMMUNICATION |
|  | OVERHEAD ELECTRIC         |
|  | OVERHEAD COMMUNICATION    |
|  | OVERHEAD UTILITY          |

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL  
EXAMPLE:  G-A  G-A UNDERGROUND GAS, QUALITY LEVEL A  
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-22.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

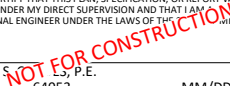
QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

|      |                          |      |                           |      |                                |
|------|--------------------------|------|---------------------------|------|--------------------------------|
| A    | ALGEBRAIC DIFFERENCE     | GRAV | GRAVEL                    | RSC  | RIGID STEEL CONDUIT            |
| ADJ  | ADJUST                   | GU   | GUTTER                    | RT   | RIGHT                          |
| ALT  | ALTERNATE                | GV   | GATE VALVE                | SAN  | SANITARY SEWER                 |
| B-B  | BACK TO BACK             | HDPE | HIGH DENSITY POLYETHYLENE | SCH  | SCHEDULE                       |
| BIT  | BITUMINOUS               | HH   | HANDHOLE                  | SERV | SERVICE                        |
| BLDG | BUILDING                 | HP   | HIGH POINT                | SHLD | SHOULDER                       |
| BMP  | BEST MANAGEMENT PRACTICE | HWL  | HIGH WATER LEVEL          | STA  | STATION                        |
| BR   | BEGIN RADIUS             | HYD  | HYDRANT                   | STD  | STANDARD                       |
| BV   | BUTTERFLY VALVE          | I    | INVERT                    | STM  | STORM SEWER                    |
| CB   | CATCH BASIN              | K    | CURVE COEFFICIENT         | TC   | TOP OF CURB                    |
| C&G  | CURB AND GUTTER          | L    | LENGTH                    | TE   | TEMPORARY EASEMENT             |
| CIP  | CAST IRON PIPE           | LO   | LOWEST OPENING            | TEMP | TEMPORARY                      |
| CIPP | CURED-IN-PLACE PIPE      | LP   | LOW POINT                 | TNH  | TOP NUT HYDRANT                |
| CL   | CENTER LINE              | LT   | LEFT                      | TP   | TOP OF PIPE                    |
| CL   | CLASS                    | MAX  | MAXIMUM                   | TYP  | TYPICAL                        |
| CLVT | CULVERT                  | MH   | MANHOLE                   | VCP  | VITRIFIED CLAY PIPE            |
| CMP  | CORRUGATED METAL PIPE    | MIN  | MINIMUM                   | VERT | VERTICAL                       |
| C.O. | CHANGE ORDER             | MR   | MID RADIUS                | VPC  | VERTICAL POINT OF CURVE        |
| COMM | COMMUNICATION            | NIC  | NOT IN CONTRACT           | VPI  | VERTICAL POINT OF INTERSECTION |
| CON  | CONCRETE                 | NMC  | NON-METALLIC CONDUIT      | VPT  | VERTICAL POINT OF TANGENT      |
| CSP  | CORRUGATED STEEL PIPE    | NTS  | NOT TO SCALE              | WM   | WATERMAIN                      |
| DIA  | DIAMETER                 | NWL  | NORMAL WATER LEVEL        |      |                                |
| DIP  | DUCTILE IRON PIPE        | OHW  | ORDINARY HIGH WATER LEVEL |      |                                |
| DWY  | DRIVEWAY                 | PC   | POINT OF CURVE            | AC   | ACRES                          |
| E    | EXTERNAL CURVE DISTANCE  | PCC  | POINT OF COMPOUND CURVE   | CF   | CUBIC FEET                     |
| ELEC | ELECTRIC                 | PE   | PERMANENT EASEMENT        | CV   | COMPACTED VOLUME               |
| ELEV | ELEVATION                | PED  | PEDESTRIAN, PEDESTAL      | CY   | CUBIC YARD                     |
| EOF  | EMERGENCY OVERFLOW       | PERF | PERFORATED PIPE           | EA   | EACH                           |
| ER   | END RADIUS               | PERM | PERMANENT                 | EV   | EXCAVATED VOLUME               |
| ESMT | EASEMENT                 | PI   | POINT OF INTERSECTION     | LB   | POUND                          |
| EX   | EXISTING                 | PL   | PROPERTY LINE             | LF   | LINEAR FEET                    |
| FES  | FLARED END SECTION       | PRC  | POINT OF REVERSE CURVE    | LS   | LUMP SUM                       |
| F-F  | FACE TO FACE             | PT   | POINT OF TANGENT          | LV   | LOOSE VOLUME                   |
| FF   | FINISHED FLOOR           | PVC  | POLYVINYL CHLORIDE PIPE   | SF   | SQUARE FEET                    |
| F&I  | FURNISH AND INSTALL      | PVMT | PAVEMENT                  | SV   | STOCKPILE VOLUME               |
| FM   | FORCEMAIN                | R    | RADIUS                    | SY   | SQUARE YARD                    |
| FO   | FIBER OPTIC              | R/W  | RIGHT-OF-WAY              |      |                                |
| F.O. | FIELD ORDER              | RCP  | REINFORCED CONCRETE PIPE  |      |                                |
| GRAN | GRANULAR                 | RET  | RETAINING                 |      |                                |

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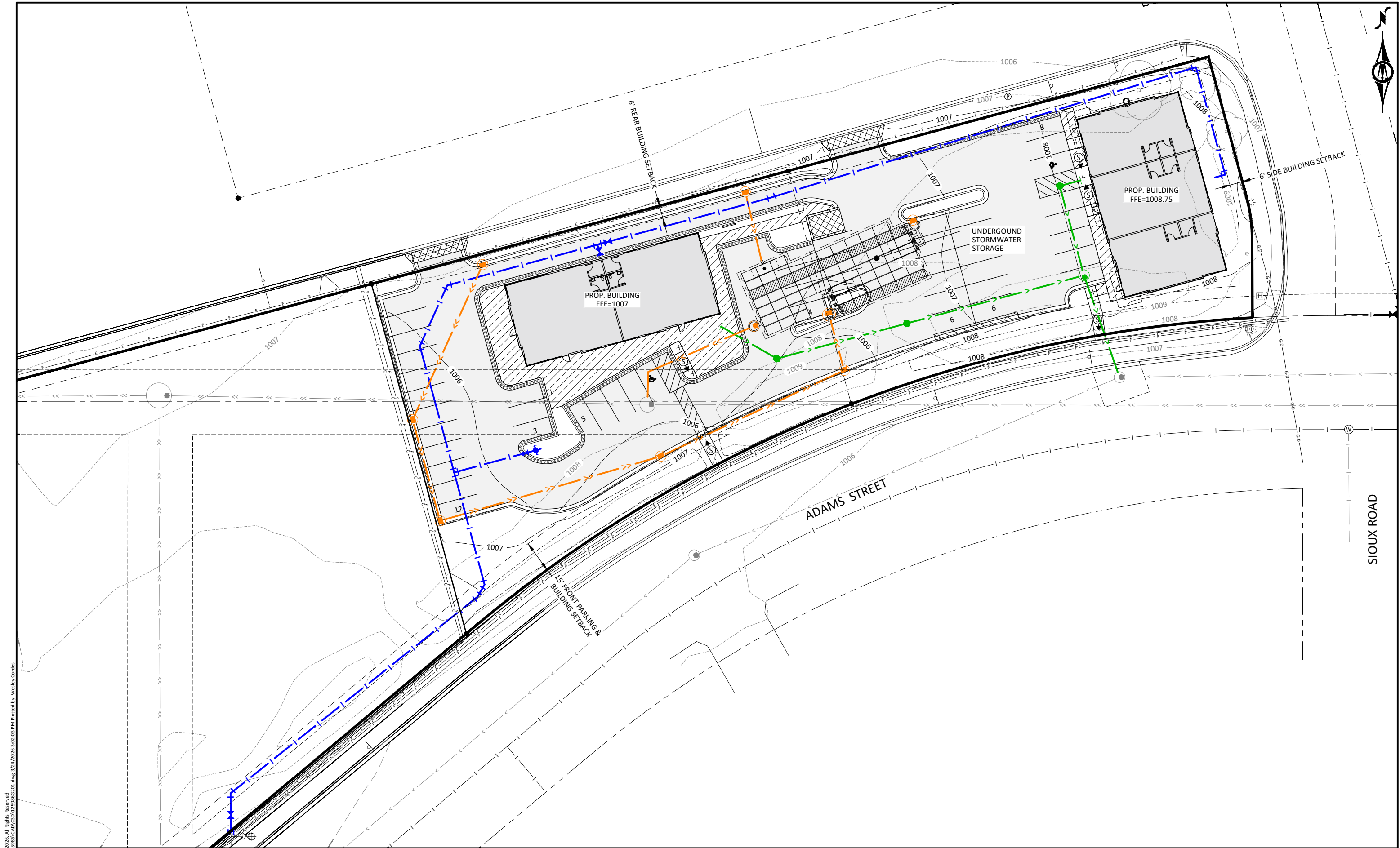
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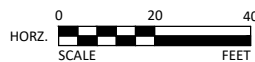
LEGEND

SHEET

G0.02



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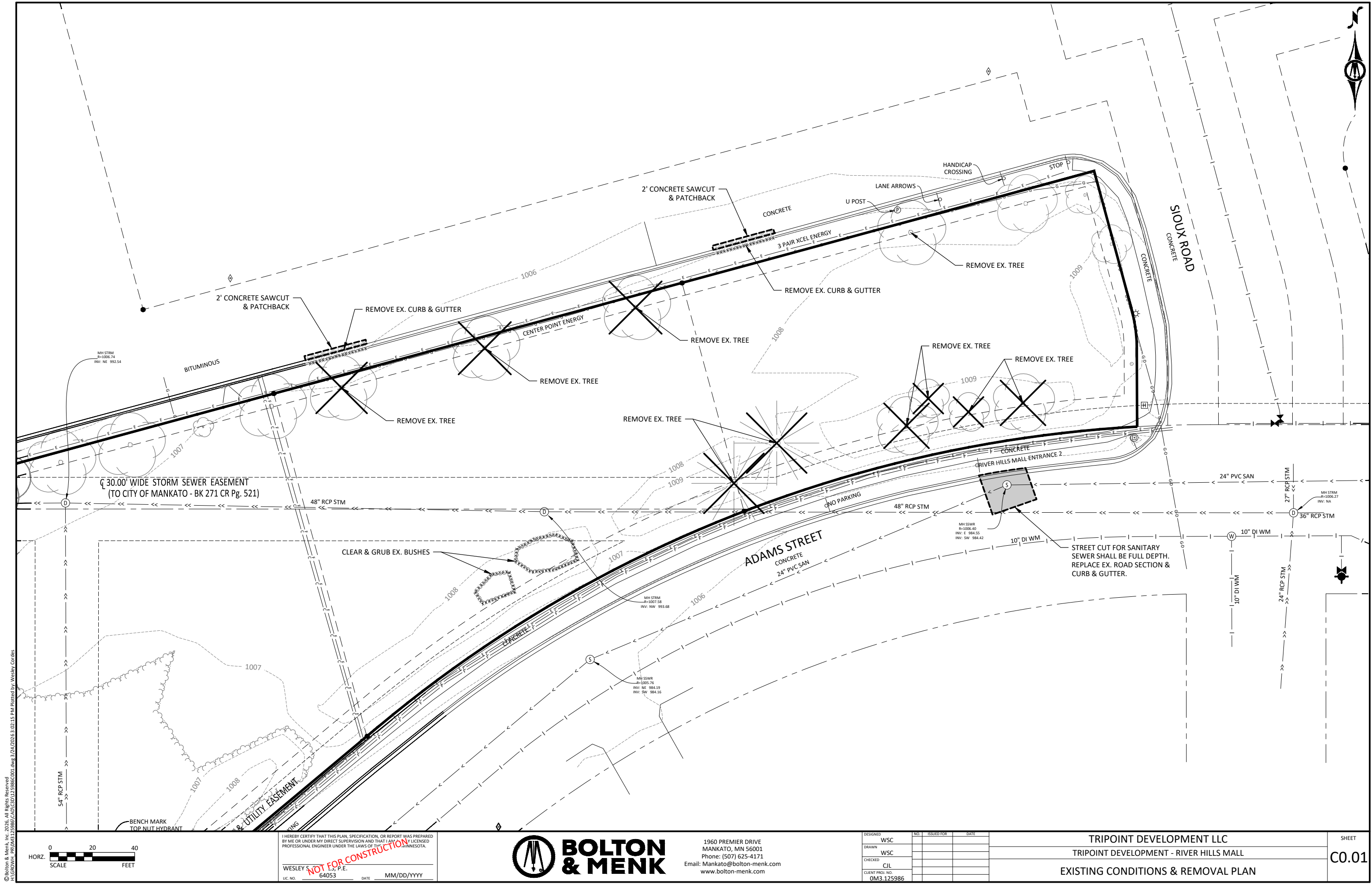
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| 0M3.125986       |     |            |      |

TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
PROJECT OVERVIEW

SHEET

G2.01



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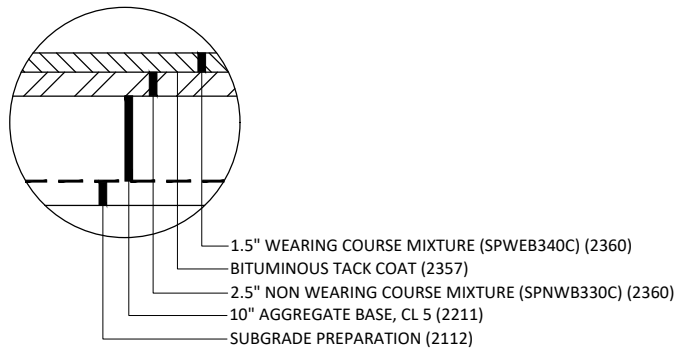
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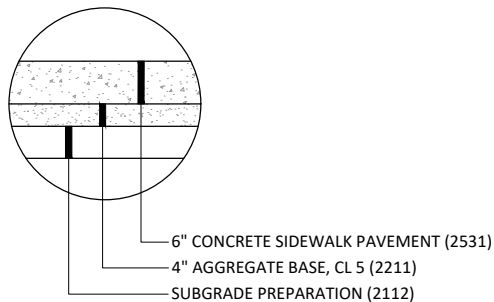
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EXISTING CONDITIONS & REMOVAL PLAN

SHEET  
C0.01

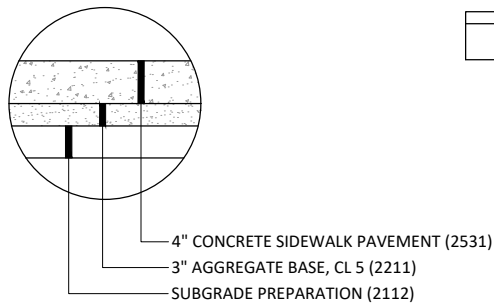
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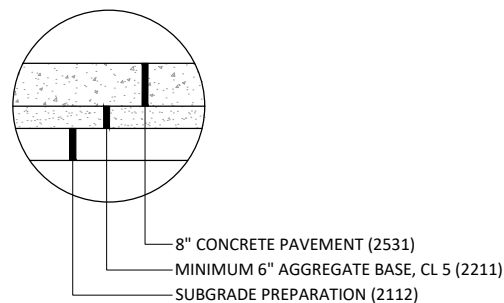
BITUMINOUS PAVEMENT SECTION  
NOT TO SCALE



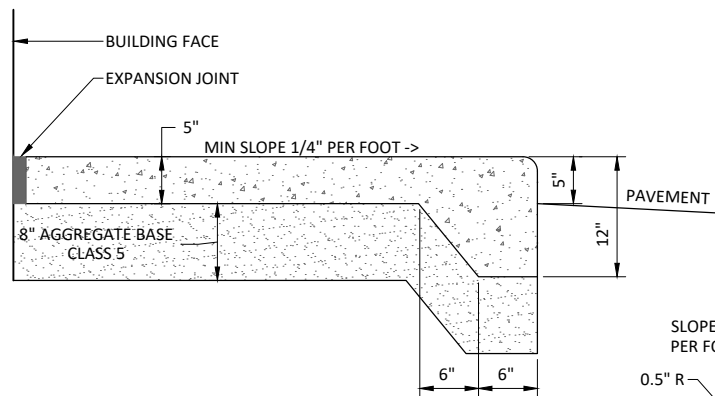
6" CONCRETE WALK  
NOT TO SCALE



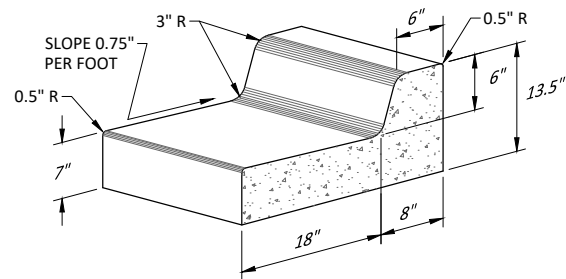
4" CONCRETE WALK  
NOT TO SCALE



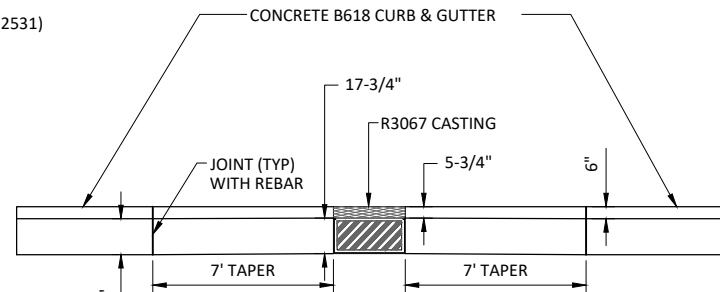
8" CONCRETE DRIVEWAY  
NOT TO SCALE  
NOTE: ALSO USE FOR WASTE ENCLOSURES



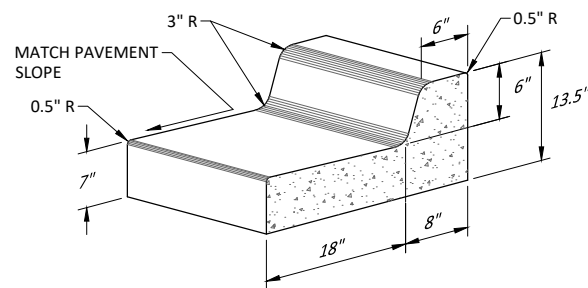
THICKENED EDGE  
CONCRETE SIDEWALK  
NOT TO SCALE



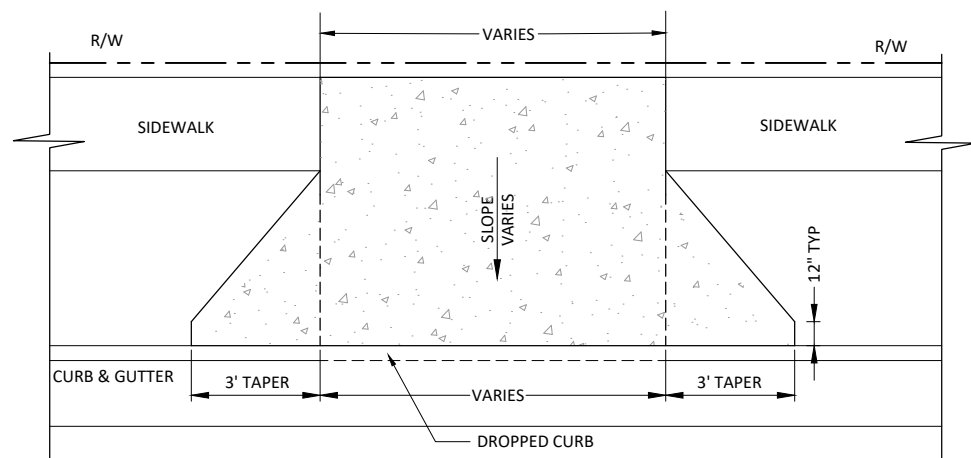
CONCRETE CURB & GUTTER  
DESIGN B618  
NOT TO SCALE



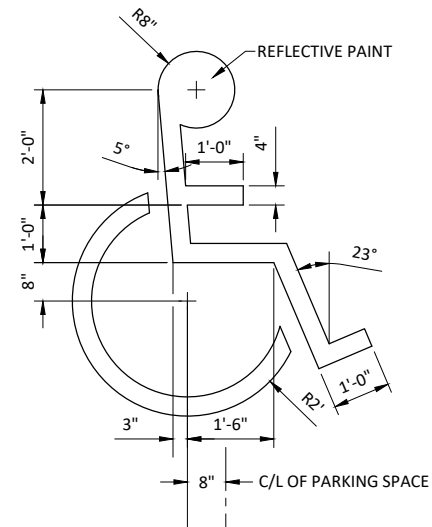
CATCHBASIN - CURB DETAIL FOR  
R-3067 IN "B" STYLE CURB  
NOT TO SCALE



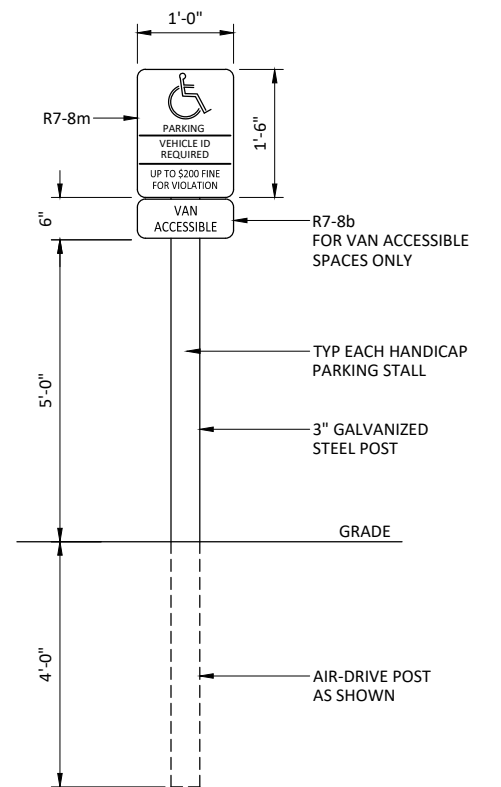
CONCRETE CURB & GUTTER  
DESIGN B618, GUTTER OUT  
NOT TO SCALE



CONCRETE DRIVEWAY DETAIL  
NOT TO SCALE



INTERNATIONAL  
HANDICAP SYMBOL  
NOT TO SCALE



ACCESSIBLE PARKING SIGN  
NOT TO SCALE

PEDESTRIAN RAMP DETAILS:  
SEE LATEST MNDOT STANDARD PLANS 5-297.250 FOR PROPER PEDESTRIAN RAMP DETAILS

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

WESLEY S. CORDS, P.E.  
LIC. NO. 64053 DATE MM/DD/YYYY



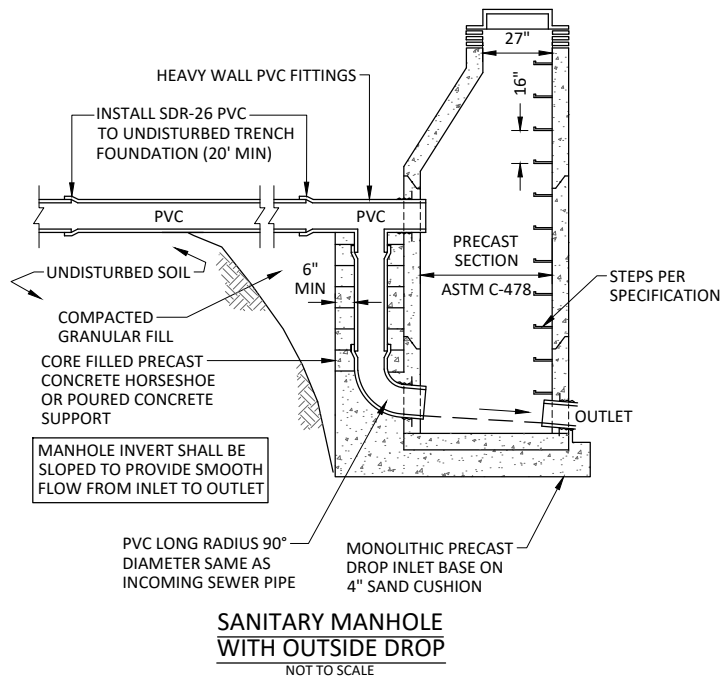
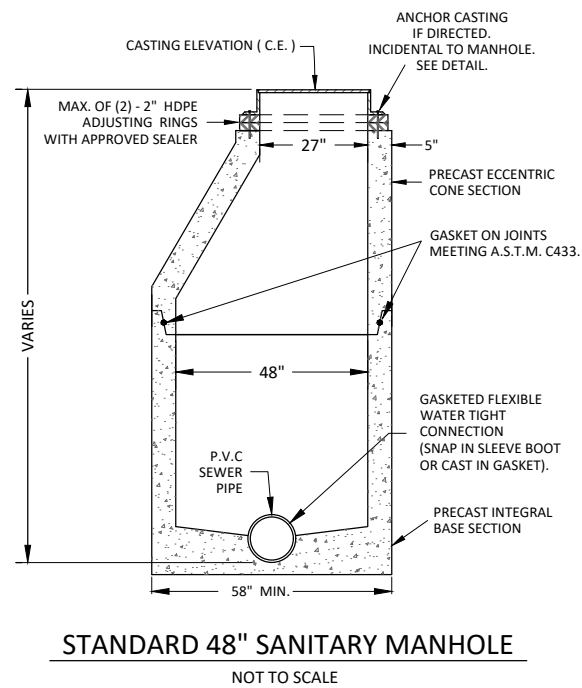
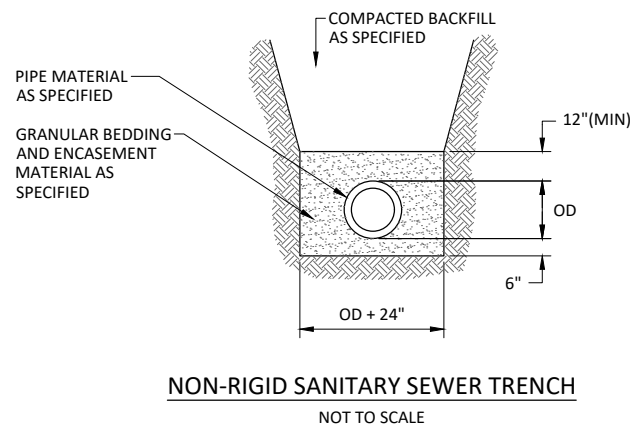
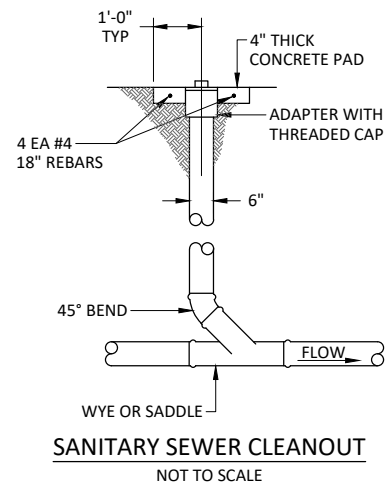
1960 PREMIER DRIVE  
MANKATO, MN 56001  
Phone: (507) 625-4171  
Email: Mankato@bolton-menk.com  
www.bolton-menk.com

| DESIGNED         | NO. | ISSUED FOR | DATE |
|------------------|-----|------------|------|
| WSC              |     |            |      |
| DRAWN            |     |            |      |
| WSC              |     |            |      |
| CHECKED          |     |            |      |
| CJL              |     |            |      |
| CLIENT PROJ. NO. |     |            |      |
| 0M3.125986       |     |            |      |

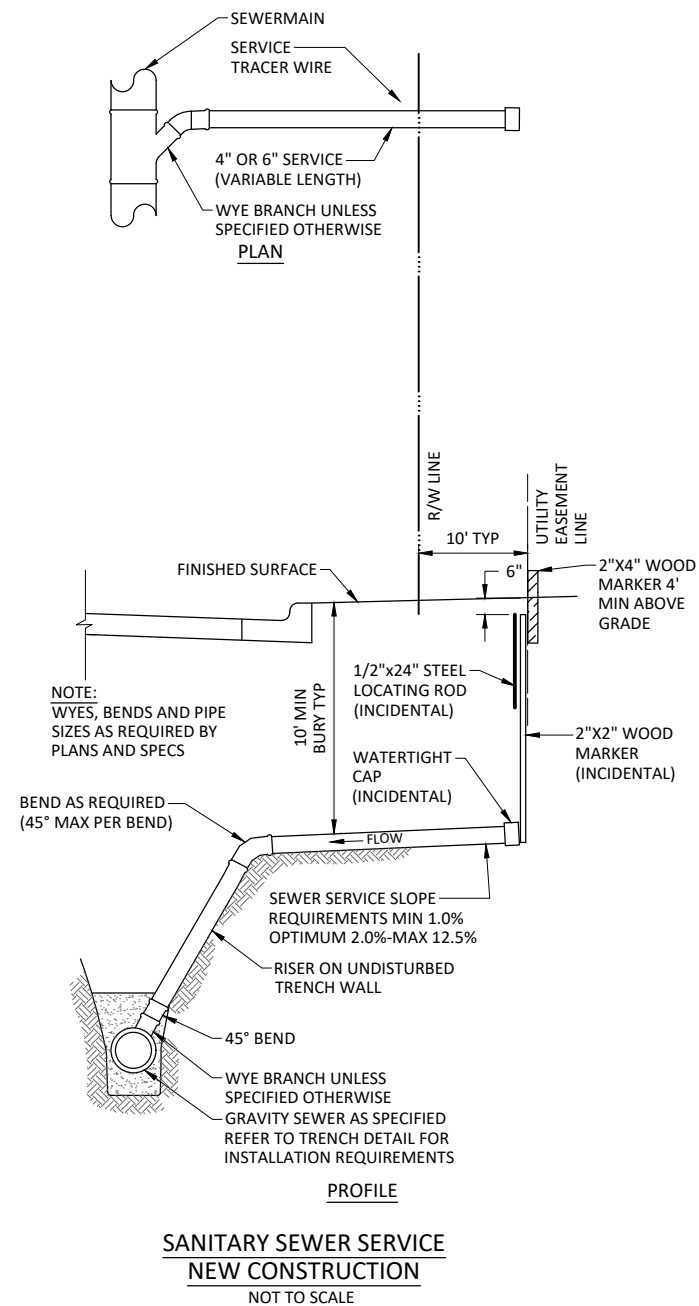
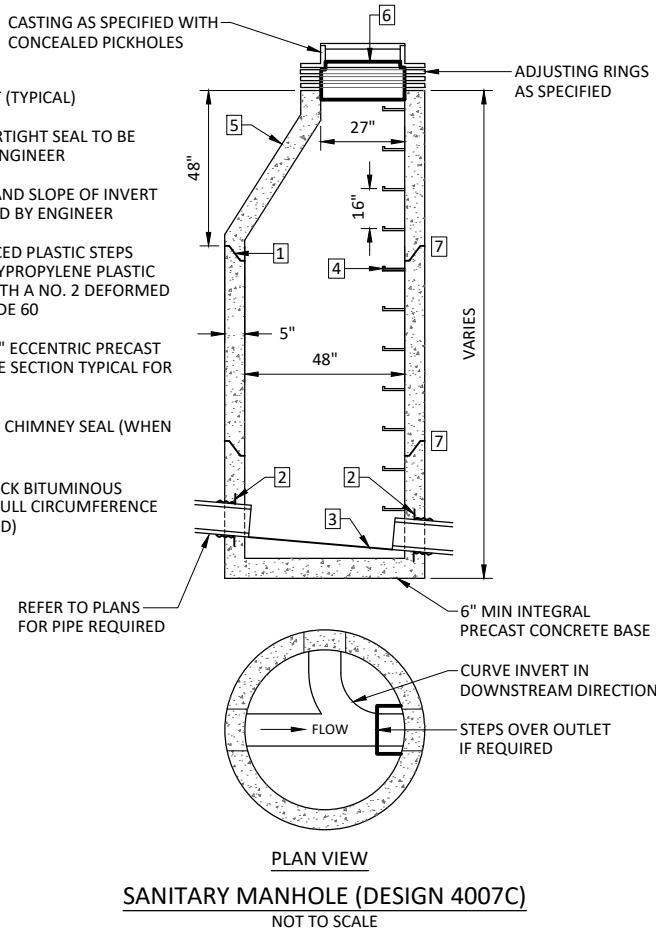
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TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
CONSTRUCTION DETAILS  
SURFACE DETAILS

SHEET

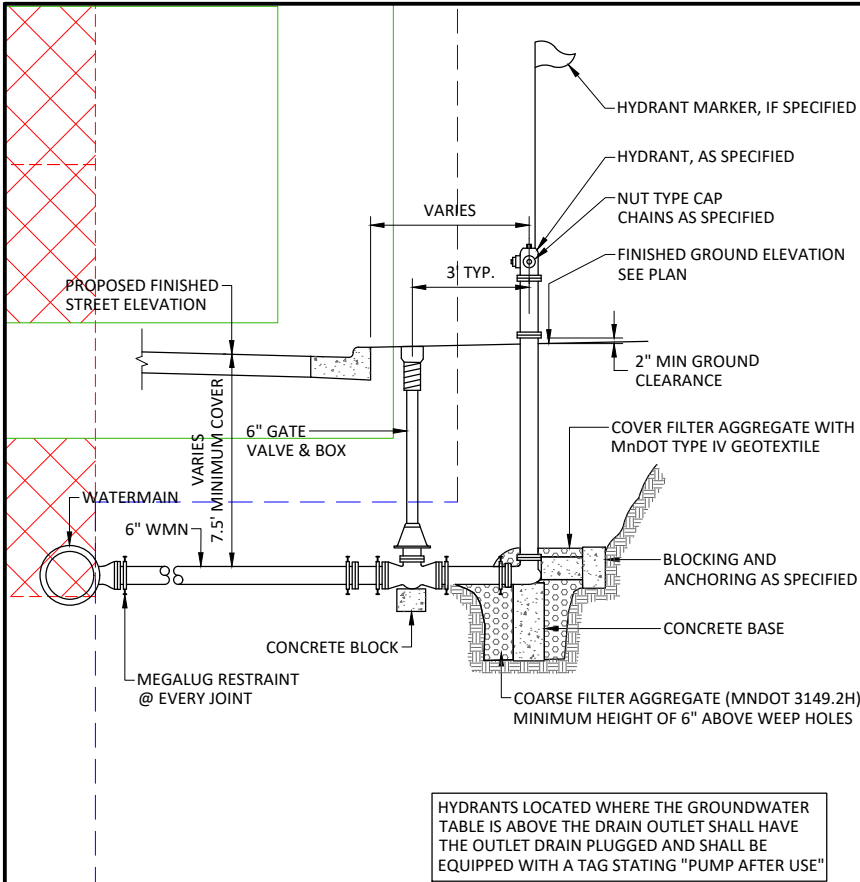
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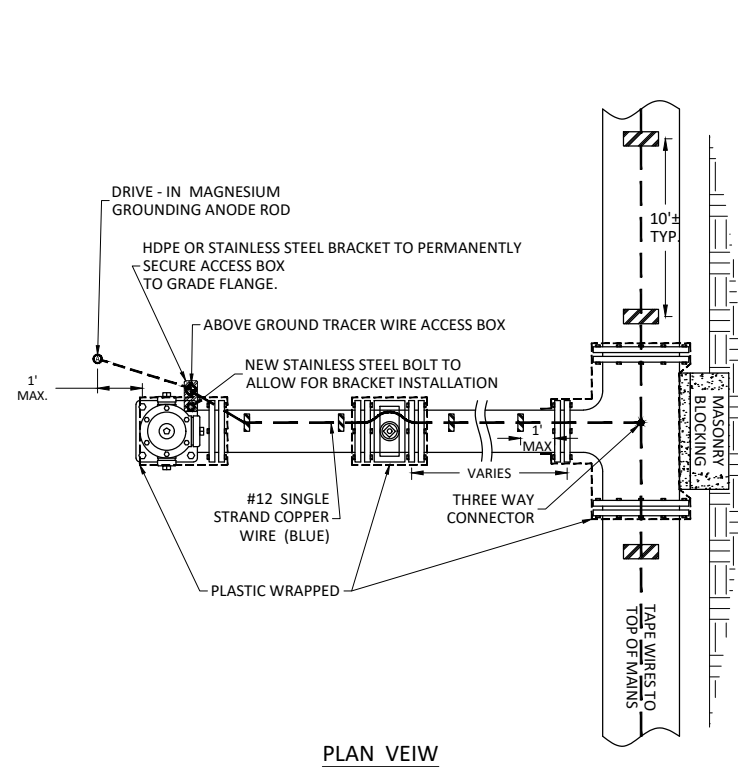
1. RUBBER GASKET (TYPICAL)
2. FLEXIBLE WATERTIGHT SEAL TO BE APPROVED BY ENGINEER
3. SHAPE, DEPTH AND SLOPE OF INVERT TO BE APPROVED BY ENGINEER
4. STEEL REINFORCED PLASTIC STEPS SHALL BE A POLYPROPYLENE PLASTIC REINFORCED WITH A NO. 2 DEFORMED STEEL ROD GRADE 60
5. MnDOT TYPE "B" ECCENTRIC PRECAST CONCRETE CONE SECTION TYPICAL FOR ALL MANHOLES
6. PLACE INTERIOR CHIMNEY SEAL (WHEN SPECIFIED)
7. 8" WIDE, 1/4" THICK BITUMINOUS MASTIC WRAP FULL CIRCUMFERENCE (WHEN SPECIFIED)



**TRACER WIRE NOTE:**  
REFER TO THE MINNESOTA RURAL WATER ASSOCIATION (MRWA) TRACER WIRE SPECIFICATION GUIDE & DETAILS TO PROPERLY INSTALL TRACER WIRE WITH WATERMAIN AND SANITARY SEWER. THE GUIDE CAN BE FOUND AT: [mrwa.com/tools.html](http://mrwa.com/tools.html) - Tracer Wire Specification Guide & Details

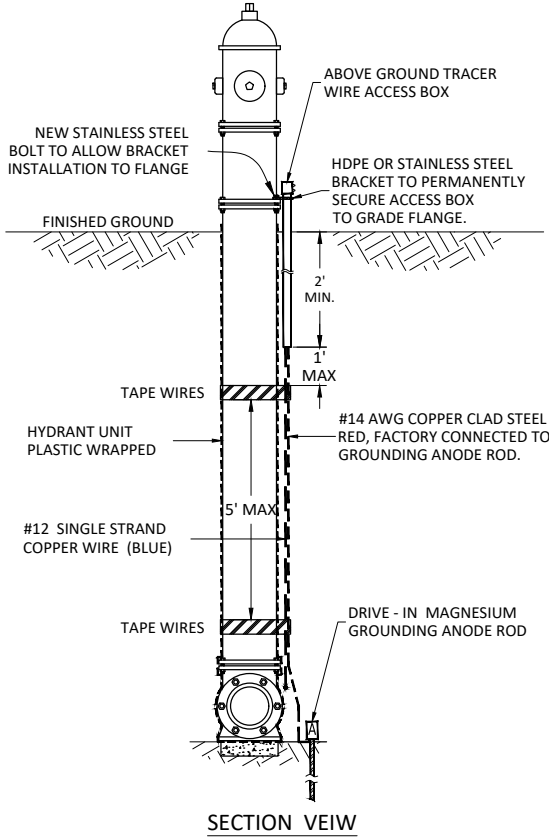


HYDRANT INSTALLATION, MEGALUGS  
NOT TO SCALE

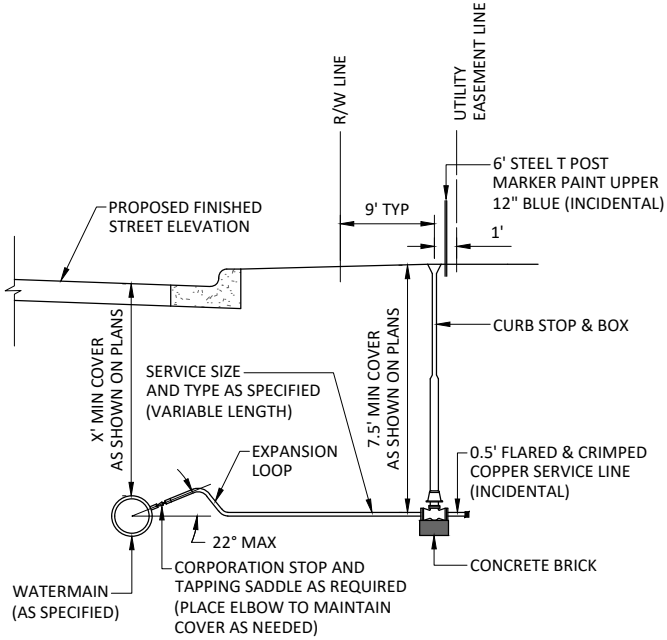


PLAN VIEW

TRACER WIRE HYDRANT DETAIL  
NOT TO SCALE

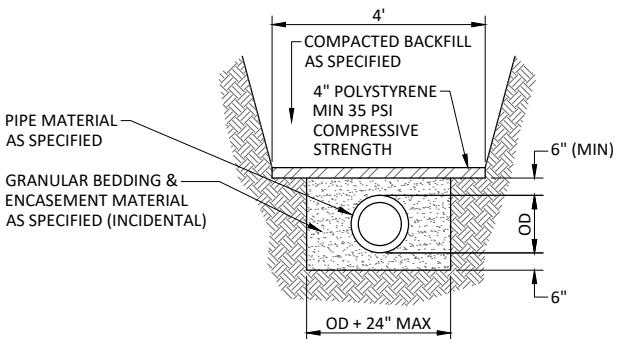


SECTION VIEW

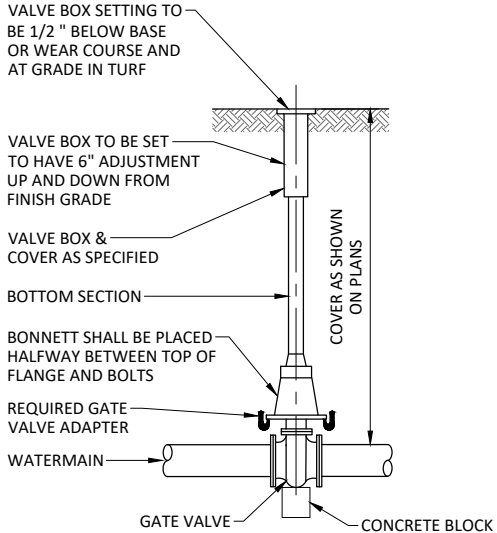


WATER SERVICE INSTALLATION  
NEW CONSTRUCTION  
NOT TO SCALE

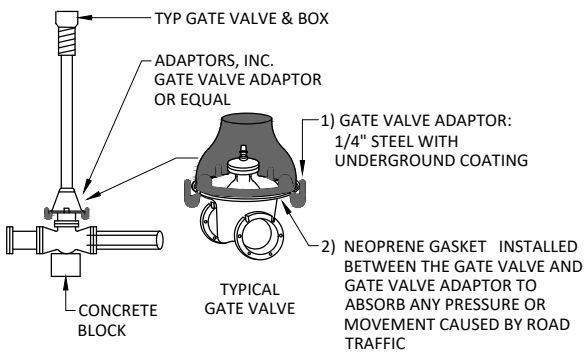
- NOTES:
1. VALVE BOX SHALL BE CENTERED ON OPERATING NUTS, STRAIGHT, FREE FROM DEBRIS, AND ALL SECTIONS UNBROKEN
  2. VALVES IN EASEMENTS SHALL HAVE CHANNEL POST WITNESS MARKERS WITH REFLECTIVE "GV" SIGN
  3. DEEP VALVES SHALL HAVE NUT EXTENSIONS INSTALLED TO ELEVATION TO ACCOMMODATE STANDARD 10' KEY; BOTTOM NUT SHALL BE BOLTED TO VALVE NUT AND ONLY ONE SECTION
  4. COMPACTION WITH MECHANICAL TAMPER AROUND VALVE BOX SHALL BE PLACED AND COMPACTION WITH 2' LIFTS TO ACHIEVE 95% COMPACTION
  5. GATE VALVES LOCATED WITHIN THE CONCRETE SIDEWALK SHALL INCLUDE A METAL SEPARATOR BETWEEN THE VALVE BOX AND THE CONCRETE



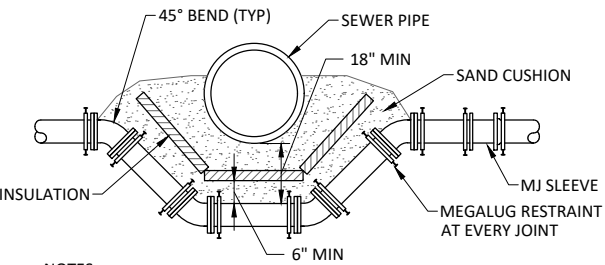
WATERMAIN INSULATION  
NOT TO SCALE



GATE VALVE BOX INSTALLATION  
NOT TO SCALE

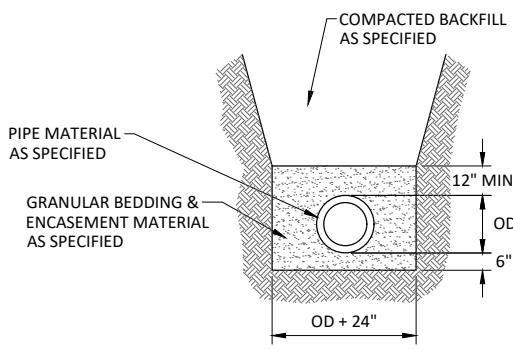


GATE VALVE ADAPTOR  
NOT TO SCALE

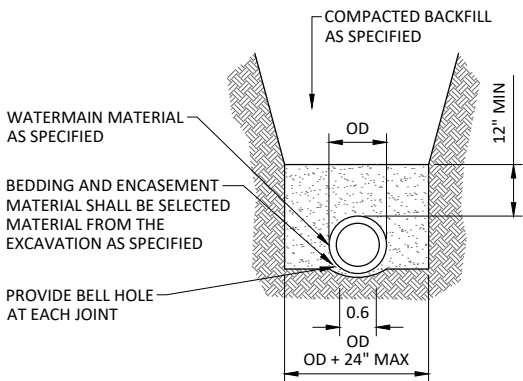


- NOTES:
1. PROVIDE MEGALUG RESTRAINT AT JOINT ON BENDS AND AS SHOWN THIS DETAIL
  2. COAT ALL ANCHORAGE AS PER SPECS
  3. PROVIDE SAND CUSHION BETWEEN TOP OF WATERMAIN AND BOTTOM OF SEWER PIPE, MIN DIMENSIONS AS SHOWN THIS DETAIL (INCIDENTAL)
  4. INSULATION TO BE 2" THICK POLYSTYRENE

WATERMAIN OFFSET  
NOT TO SCALE

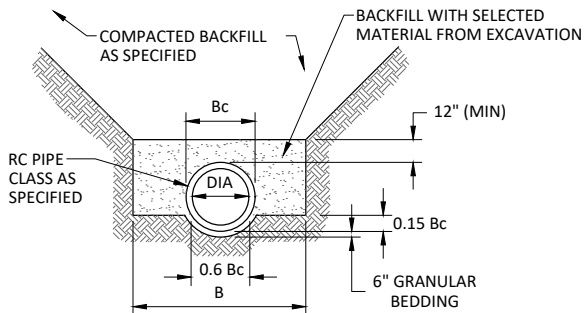
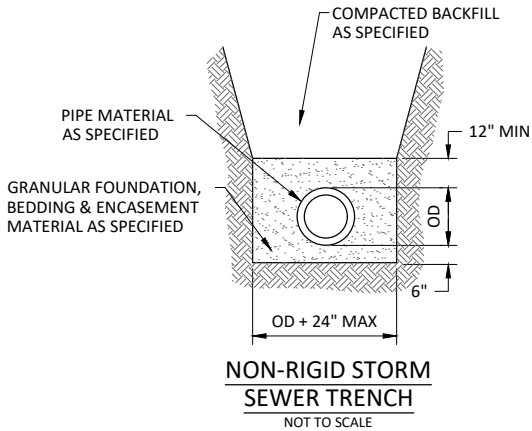


PVC WATERMAIN TRENCH  
NOT TO SCALE



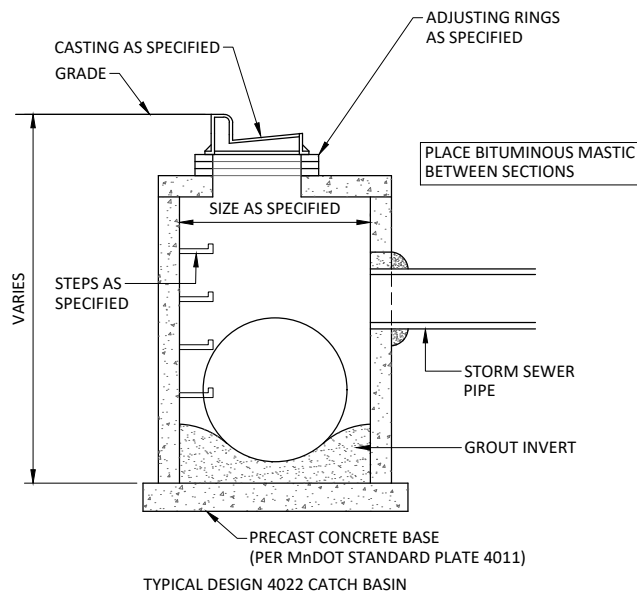
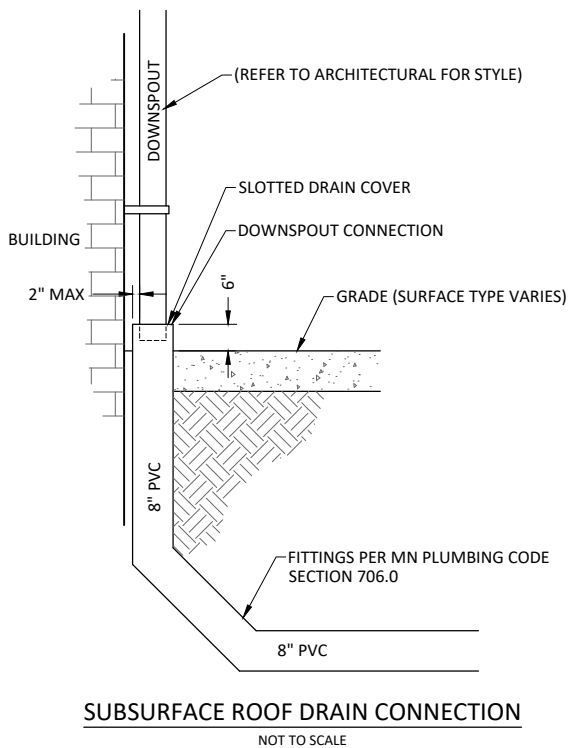
DIP WATERMAIN TRENCH  
NOT TO SCALE

**TRACER WIRE NOTE:**  
REFER TO THE MINNESOTA RURAL WATER ASSOCIATION (MRWA) TRACER WIRE SPECIFICATION GUIDE & DETAILS TO PROPERLY INSTALL TRACER WIRE WITH WATERMAIN AND SANITARY SEWER. THE GUIDE CAN BE FOUND AT: [mrwa.com/tools.html](http://mrwa.com/tools.html) - Tracer Wire Specification Guide & Details



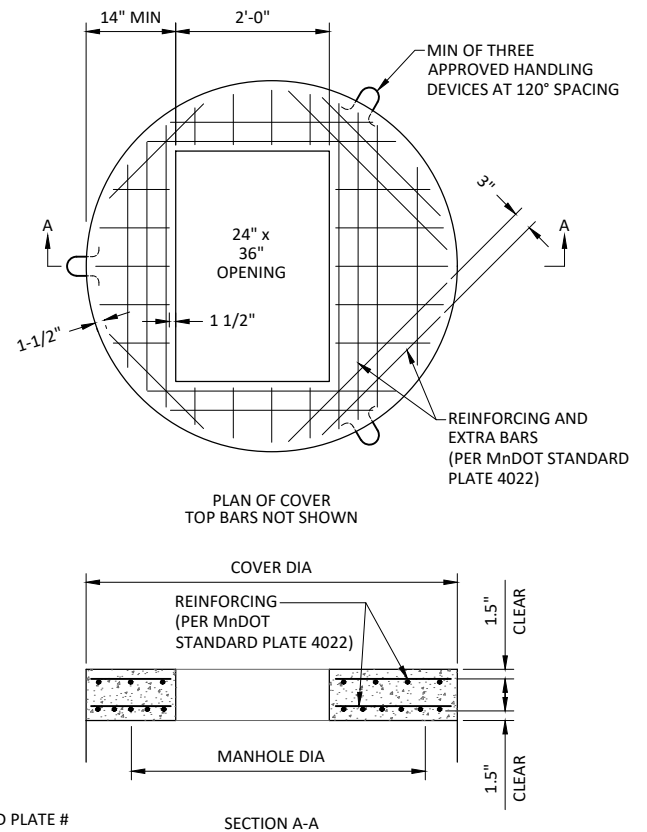
| PIPE DIA    | B        |
|-------------|----------|
| 36" OR LESS | Bc + 24" |
| 42" TO 54"  | 1.5 X Bc |
| 60" OR OVER | Bc + 36" |

RC PIPE  
CLASS "B" BEDDING  
NOT TO SCALE



- NOTES:**
1. AASHTO HS 25 LOADING MAX FILL HEIGHT 15'
  2. THE # 4022 SHALL BE PERMANENTLY MARKED ON THE TOP COVER
  3. EQUIVALENT STEEL AREAS IN WIRE MESH MAY BE USED
  4. REINFORCEMENT PER SPEC 3301, GRADE 60 A SINGLE HOOP OF 8ga STEEL WIRE

DESIGNATION:  
DESIGN DIAMETER - STANDARD PLATE #  
DESIGN 48-4020



STORM SEWER STRUCTURE DESIGN 4022

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| PROJECT INFORMATION        |  |
|----------------------------|--|
| ENGINEERED PRODUCT MANAGER |  |
| ADS SALES REP              |  |
| PROJECT NO.                |  |



# RIVER HILLS RETAIL (SC-800)

## MANKATO, MN, USA

### SC-800 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-800.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

- STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

### NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "SC/DC STORMTECH CHAMBER INSTALLATION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

**USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**

CONTACT ADS WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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|                                                                                                                                                                                                            |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. |                 |
| WESLEY S. CORDS, P.E.                                                                                                                                                                                      |                 |
| LIC. NO. 64053                                                                                                                                                                                             | DATE MM/DD/YYYY |



1960 PREMIER DRIVE  
MANKATO, MN 56001  
Phone: (507) 625-4171  
Email: Mankato@bolton-menk.com  
www.bolton-menk.com

| DESIGNED         | NO. | ISSUED FOR | DATE |
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| WSC              |     |            |      |
| DRAWN            |     |            |      |
| WSC              |     |            |      |
| CHECKED          |     |            |      |
| CJL              |     |            |      |
| CLIENT PROJ. NO. |     |            |      |
| 0M3.125986       |     |            |      |

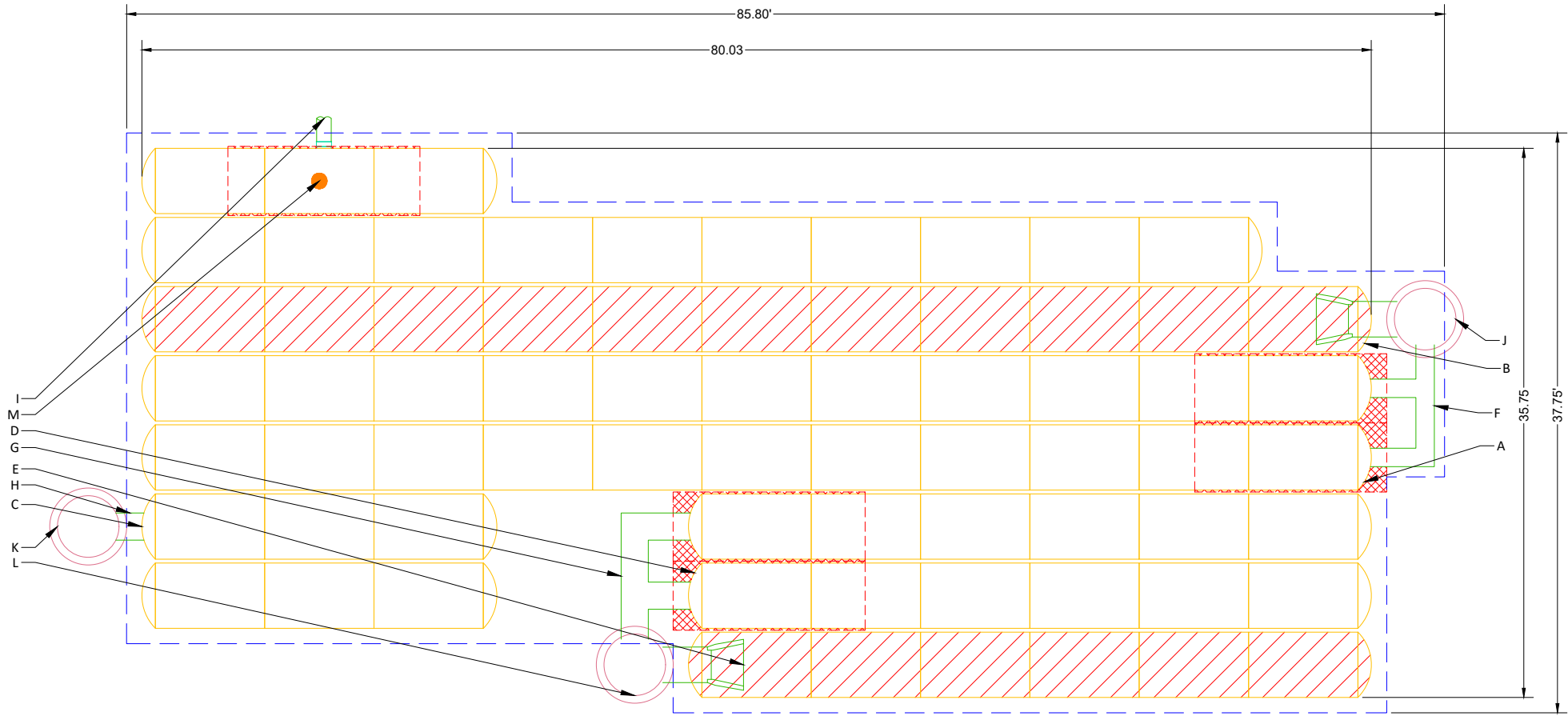
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TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
CONSTRUCTION DETAILS  
UNDERGROUND STORAGE

SHEET

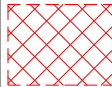
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| PROPOSED LAYOUT |                                                                                                               | PROPOSED ELEVATIONS                                       |         | *INVERT ABOVE BASE OF CHAMBER |                |                                                                                                                  |         |             |
|-----------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|-------------------------------|----------------|------------------------------------------------------------------------------------------------------------------|---------|-------------|
| 70              | STORMTECH SC-800 CHAMBERS                                                                                     | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):        | 1009.75 | PART TYPE                     | ITEM ON LAYOUT | DESCRIPTION                                                                                                      | INVERT* | MAX FLOW    |
| 20              | STORMTECH SC-800 END CAPS                                                                                     | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):           | 1003.50 | PRE-CORED END CAP             | A              | 12" TOP PRE-CORED END CAP, PART#: SC800EPE12TPC / TYP OF ALL 12" TOP CONNECTIONS                                 |         |             |
| 12              | STONE ABOVE (in)                                                                                              | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):             | 1003.00 | PREFABRICATED EZ END CAP      | B              | 24" BOTTOM PREFABRICATED EZ END CAP, PART#: SC800ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS |         |             |
| 24              | STONE BELOW (in)                                                                                              | MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT): | 1003.00 | PRE-CORED END CAP             | C              | 18" BOTTOM PRE-CORED END CAP, PART#: SC800EPE18BPC / TYP OF ALL 18" BOTTOM CONNECTIONS                           |         |             |
| 40              | STONE VOID                                                                                                    | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):      | 1003.00 | PRE-CORED END CAP             | D              | 18" TOP PRE-CORED END CAP, PART#: SC800EPE18TPC / TYP OF ALL 18" TOP CONNECTIONS                                 |         |             |
| 8375            | INSTALLED SYSTEM VOLUME (CF)<br>(PERIMETER STONE INCLUDED)<br>(COVER STONE INCLUDED)<br>(BASE STONE INCLUDED) | TOP OF STONE:                                             | 1002.75 | FLAMP                         | E              | INSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC80024RAMP (TYP 2 PLACES)                                             |         |             |
|                 |                                                                                                               | TOP OF SC-800 CHAMBER:                                    | 1001.75 | MANIFOLD                      | F              | 12" x 12" TOP MANIFOLD, ADS N-12                                                                                 | 14.40"  |             |
|                 |                                                                                                               | 12" x 12" TOP MANIFOLD INVERT:                            | 1000.20 | MANIFOLD                      | G              | 18" x 18" TOP MANIFOLD, ADS N-12                                                                                 | 8.00"   |             |
|                 |                                                                                                               | 18" x 18" TOP MANIFOLD INVERT:                            | 999.67  | PIPE CONNECTION               | H              | 18" BOTTOM CONNECTION                                                                                            | 2.00"   |             |
| 2699            | SYSTEM AREA (SF)                                                                                              | 10" INSERTA TEE INVERT:                                   | 999.33  | INSERTA TEE                   | I              | 10" DIAMETER                                                                                                     | 4.00"   |             |
| 247.1           | SYSTEM PERIMETER (ft)                                                                                         | 24" ISOLATOR ROW PLUS INVERT:                             | 999.19  | CONCRETE STRUCTURE            | J              | (DESIGN BY ENGINEER / PROVIDED BY OTHERS)                                                                        |         | 4.6 CFS IN  |
|                 |                                                                                                               | 18" BOTTOM CONNECTION INVERT:                             | 999.17  | CONCRETE STRUCTURE            | K              | OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)                                                                    |         | 4.0 CFS OUT |
|                 |                                                                                                               | BOTTOM OF SC-800 CHAMBER:                                 | 999.00  | CONCRETE STRUCTURE            | L              | (DESIGN BY ENGINEER / PROVIDED BY OTHERS)                                                                        |         | 5.6 CFS IN  |
|                 |                                                                                                               | BOTTOM OF STONE:                                          | 997.00  | INSPECTION PORT               | M              | 6" SEE DETAIL                                                                                                    |         |             |



ISOLATOR ROW PLUS  
(SEE DETAIL)



PLACE MINIMUM 12.50' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING  
STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL  
CHAMBER INLET ROWS



BED LIMITS

#### NOTES

THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.  
**NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

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

WESLEY S. **NOT FOR CONSTRUCTION** P.E.  
LIC. NO. 64053 DATE MM/DD/YYYY



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Email: Mankato@bolton-menk.com  
www.bolton-menk.com

| DESIGNED         | NO. | ISSUED FOR | DATE |
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| WSC              |     |            |      |
| DRAWN            |     |            |      |
| WSC              |     |            |      |
| CHECKED          |     |            |      |
| CJL              |     |            |      |
| CLIENT PROJ. NO. |     |            |      |
| 0M3.125986       |     |            |      |

TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
CONSTRUCTION DETAILS  
UNDERGROUND STORAGE

RIVER HILLS RETAIL (SC-800)

MANKATO, MN, USA

DRAWN: JH

DATE: 03/24/2026

CHECKED: N/A

PROJECT #:

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2 OF 6

SHEET

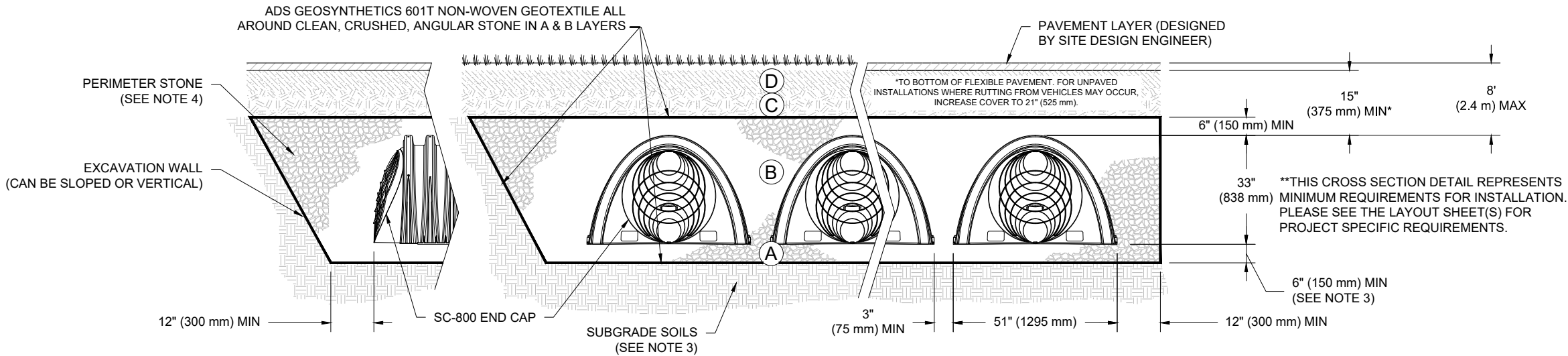
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ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

| MATERIAL LOCATION |                                                                                                                                                                                                                  | DESCRIPTION                                                                                                                                                | AASHTO MATERIAL CLASSIFICATIONS                                                                                                                   | COMPACTION / DENSITY REQUIREMENT                                                                                                                                                                                                                                                                                                                                   |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                 | <b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.                                            | N/A                                                                                                                                               | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.                                                                                                                                                                                                                                            |
| C                 | <b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br><br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.                                                                                              | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>5</sup>                                                                                            | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | NO COMPACTION REQUIRED.                                                                                                                                                                                                                                                                                                                                            |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.                                                                                                           | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>5</sup>                                                                                            | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57                                                                                              | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>                                                                                                                                                                                                                                                                                                    |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
  - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
  - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

RIVER HILLS RETAIL (SC-800)

MANKATO, MN, USA

DRAWN: JH

DATE: 03/24/2026

PROJECT #:

CHECKED: N/A

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ADS

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3 OF 6

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WESLEY S. CORDS, P.E.  
LIC. NO. 64053 DATE MM/DD/YYYY



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| DESIGNED         | NO. | ISSUED FOR | DATE |
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| WSC              |     |            |      |
| DRAWN            |     |            |      |
| WSC              |     |            |      |
| CHECKED          |     |            |      |
| CJL              |     |            |      |
| CLIENT PROJ. NO. |     |            |      |
| 0M3.125986       |     |            |      |

TRIPOINT DEVELOPMENT LLC

TRIPOINT DEVELOPMENT - RIVER HILLS MALL

CONSTRUCTION DETAILS  
UNDERGROUND STORAGE



## NTS



## NOMINAL END CAP SPECIFICATIONS

\* ASSUMES 6" (150 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS, 3" (75 mm) BETWEEN CHAMBERS  
 \*\*ASSUMES 6" (150 mm) STONE ABOVE AND BELOW END CAPS, 3" (150 mm) BETWEEN ROWS, 12" (300 mm) BEYOND END CAPS


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& MENK**

| DESIGNED         | NO. | ISSUED FOR | DATE |
|------------------|-----|------------|------|
| WSC              |     |            |      |
| DRAWN            |     |            |      |
| WSC              |     |            |      |
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RIVER HILLS RETAIL (SC-800)

MANKATO, MN, USA

DATE: 03/24/

CHECKED: N/A

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WESLEY S. CORDES, P.E.  
LIC. NO. 64053 DATE MM/DD/YYYY



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|------------------|------------|-----|------------|------|
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| DRAWN            | WSC        |     |            |      |
| CHECKED          | CJL        |     |            |      |
| CLIENT PROJ. NO. | 0M3.125986 |     |            |      |

TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
CONSTRUCTION DETAILS  
UNDERGROUND STORAGE

SHEET

C1.10

### INSERTA TEE DETAIL

NTS

CONVEYANCE PIPE  
MATERIAL MAY VARY  
(PVC, HDPE, ETC.)

INSERTA TEE  
CONNECTION

PLACE ADSPLUS WOVEN GEOTEXTILE  
(CENTERED ON INSERTA-TEE INLET) OVER  
BEDDING STONE FOR SCOUR PROTECTION AT  
SIDE INLET CONNECTIONS. GEOTEXTILE MUST  
EXTEND 6" (150 mm) PAST CHAMBER FOOT

#### NOTES:

- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

| CHAMBER                                                                                                                         | MAX DIAMETER OF<br>INSERTA TEE | HEIGHT FROM BASE OF<br>CHAMBER (X) |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|
| SC-310                                                                                                                          | 6" (150 mm)                    | 4" (100 mm)                        |
| SC-800                                                                                                                          | 10" (250 mm)                   | 4" (100 mm)                        |
| DC-780                                                                                                                          | 10" (250 mm)                   | 4" (100 mm)                        |
| MC-3500                                                                                                                         | 12" (300 mm)                   | 6" (150 mm)                        |
| MC-4500                                                                                                                         | 12" (300 mm)                   | 8" (200 mm)                        |
| MC-7200                                                                                                                         | 12" (300 mm)                   | 8" (200 mm)                        |
| INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS<br>GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON |                                |                                    |

DO NOT INSTALL  
INSERTA-TEE AT  
CHAMBER JOINTS

INSERTA TEE TO BE  
INSTALLED, CENTERED  
OVER CORRUGATION

SECTION A-A

SIDE VIEW

RIVER HILLS RETAIL (SC-800)

MANKATO, MN, USA

DATE: 03/24/2026

DRAWN: JH

PROJECT #:

CHECKED: N/A

DATE DWN CHK

Inserta Tee®  
Lateral Connection

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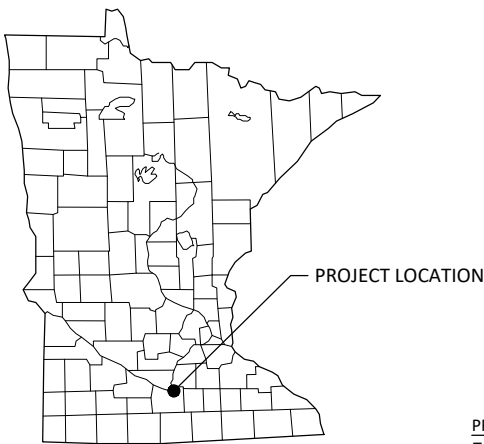


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6 OF 6

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STORMWATER  
POLLUTION PREVENTION  
PLAN (SWPPP)

TRIPOINT DEVELOPMENT -  
RIVER HILLS MALL  
CITY OF MANKATO  
BLUE EARTH COUNTY, MINNESOTA



LEGEND

- 1-MILE BOUNDARY
- PROJECT BOUNDARY
- IMPAIRED, SPECIAL OR PROTECTED WATERS
- NATIONAL WETLANDS INVENTORY

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 BMPs that will oversee the implementation of the SWPPP, and the installation, inspection and maintenance of the erosion prevention and sediment control BMPs.

A Construction SWPPP Manager must be available for an on-site inspection within 72 hours upon request by the MPCA.

|                                      | COMPANY             | CONTACT PERSON         | PHONE        |
|--------------------------------------|---------------------|------------------------|--------------|
| OWNER:                               | TBD                 | TBD                    | TBD          |
| SWPPP DESIGNER:                      | Bolton & Menk, Inc. | WESLEY S. CORDES, P.E. | 507-978-4179 |
| CONTRACTOR:                          | TBD                 | TBD                    | TBD          |
| CONSTRUCTION SWPPP MANAGER:          | TBD                 | TBD                    | TBD          |
| PARTY RESPONSIBLE FOR LONG TERM O&M: | TBD                 | TBD                    | TBD          |

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 on the Narrative sheet. 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 NOT is filed.

ADDITIONAL COMPENSATION  
Payment for all work associated with Erosion and Sediment Control shall be as described in the Project Manual. Unless otherwise authorized by the Owner no additional payment shall be made for any work required to administer and maintain the site erosion and sediment control in compliance with the Minnesota Pollution Control Agency (MPCA) - General Stormwater Permit for Construction Activity (MN R100001) including but not limited to inspection, maintenance, and removal of BMPs or addition of BMPs to accommodate Contractor phasing.

DOCUMENT RETENTION  
Permittees 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 NOT.

GENERAL STORMWATER DISCHARGE REQUIREMENTS  
All requirements listed in Section 5.1 of the Permit for the design of the permanent stormwater management system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

- The expected amount, frequency, intensity, and duration of precipitation.
- The nature of stormwater runoff and run-on at the site
- Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
- The range of soil particle sizes expected to be present on the site.

Permanent stormwater treatment systems for this project have been designed in accordance with the guidance in the MN Stormwater Manual in place at the time of bidding. Copies of the design information and calculations are part of this SWPPP and will be provided in digital format upon written request to the Engineer.

PROJECT AREAS:  
Total Project Size (disturbed area) = 1.17 ACRES  
Existing area of impervious surface = 0.0 ACRES  
Post construction area of impervious surface = 0.88 ACRES  
Total new impervious surface area created = 0.88 ACRES

Planned Construction Start Date: TBD  
Estimated Construction Completion Date: TBD

PERMANENT STORMWATER MANAGEMENT SYSTEM:  
Type of storm water management used if more than 1 acre of new impervious surface is created:

|   |                                              |
|---|----------------------------------------------|
| X | Wet Sedimentation Basin                      |
|   | Infiltration/Filtration (Underground)        |
|   | Regional Pond                                |
|   | Permanent Stormwater Management Not Required |

| COUNTY     | TOWNSHIP | RANGE | SECTION | LATITUDE   | LONGITUDE  |
|------------|----------|-------|---------|------------|------------|
| BLUE EARTH | T108N    | R26W  | 9       | 44.1706° N | 93.9533° W |

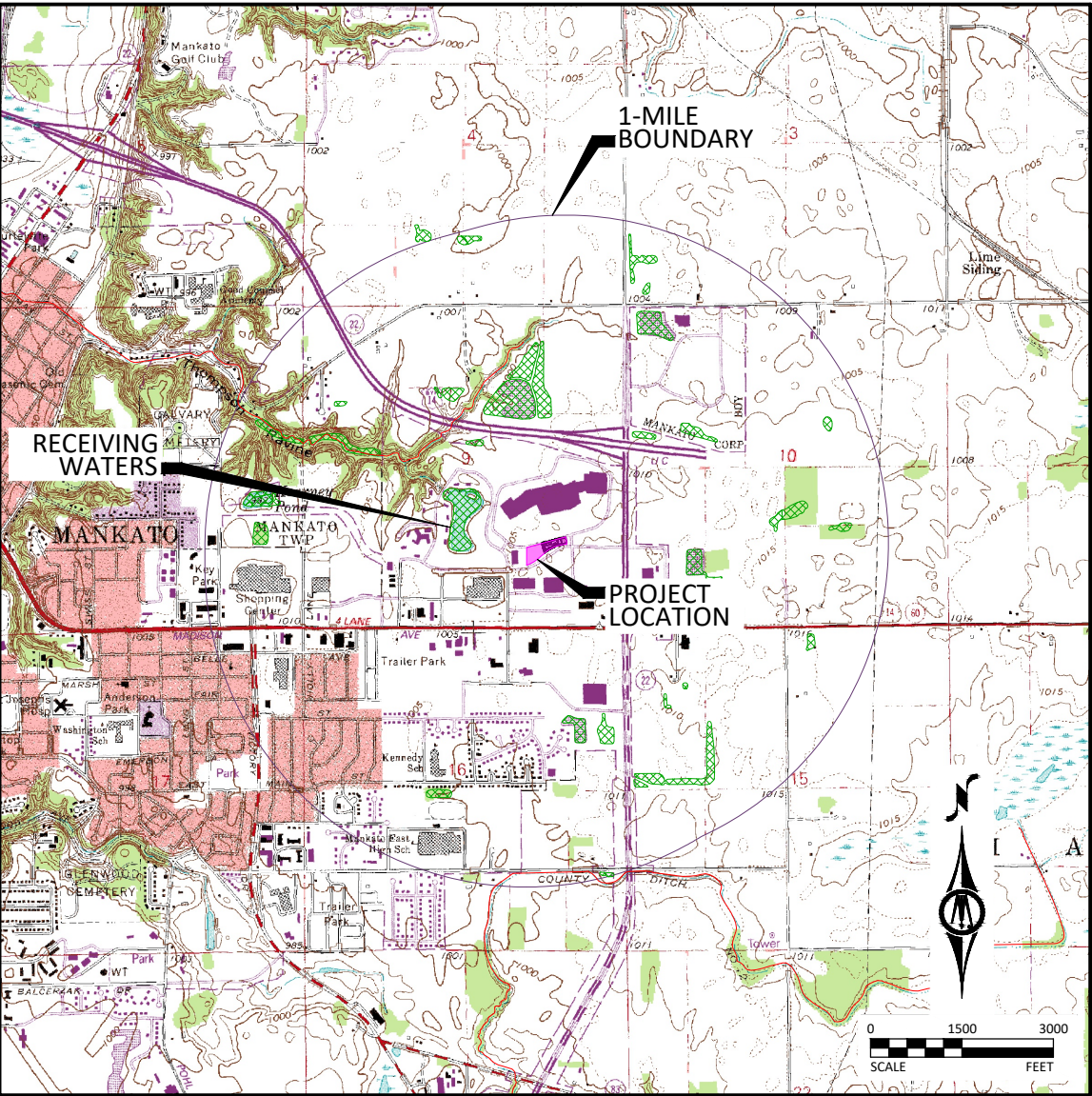
| BMP SUMMARY                                                                                                                                | QUANTITY | UNIT    |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| STABILIZED CONSTRUCTION EXIT                                                                                                               | 2        | EACH    |
| INLET PROTECTION                                                                                                                           | 8        | EACH    |
| PERIMETER CONTROL                                                                                                                          | 1045     | LN FEET |
| TURF GRASS ESTABLISHMENT (W/FERTILIZER & MULCH OR BLANKET)                                                                                 | 0.3      | ACRE    |
| NOTE: QUANTITIES LISTED ACCOUNT FOR ONE INSTALLATION. ADDITIONAL INSTALLATIONS MAY BE NECESSARY AS A RESULT OF SCHEDULING AND MAINTENANCE. |          |         |

DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:  
Construction activities include: Site grading, sanitary sewer and water main extensions, temporary erosion and sediment control, and permanent stabilization.

Stormwater currently ...

After construction is complete stormwater will ...

This project includes the following stormwater management BMPs ...



RECEIVING WATERS:  
Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds, within 1-mile of the project boundary are identified on the USGS 7.5 min quad map above. Receiving waters that are impaired, the impairment, and WLA are listed as follows. All specific BMPs relative to construction activities listed in the permit for special, prohibited, restricted, or impaired have been incorporated into this plan. All specific BMPs listed in approved TMDLs and those BMPs listed for construction related waste load allocations have also been incorporated.

| NAME OF WATER BODY             | TYPE (ditch, pond, wetland, lake, etc.) | Special, Prohibited, Restricted Water <sup>1</sup> | Flows to Impaired Water Within 1-Mile <sup>2</sup> | USEPA Approved Construction Related TMDL <sup>3</sup> |
|--------------------------------|-----------------------------------------|----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|
| UNDERGROUND DETENTION FACILITY | UNDERGROUND FACILITY                    | NO                                                 | NO                                                 | NO                                                    |
| LAKE DOROTHY                   | LAKE                                    | NO                                                 | NO                                                 | NO                                                    |

<sup>1</sup> Special, prohibited, and restricted waters are listed in Section 23 of the MN Construction Stormwater General Permit (MNR100001).  
<sup>2</sup> Identified as impaired under section 303 (d) of the federal Clean Water Act for phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.  
<sup>3</sup> Construction Related TMDLs include those related to: phosphorus, turbidity, TSS, dissolved oxygen, and/or aquatic biota.

IMPLEMENTATION SCHEDULE AND PHASING: The Contractor is required to provide an updated schedule and site management plan meeting the minimum requirements of Section 1717 of the Minnesota Standard Specifications for Construction.

- Submit SWPPP Updates to Engineer. Submittal shall include any requested changes to the SWPPP, including but not limited to: Trained Personnel, Locations for Stockpiles, Concrete Washout, Sanitation Facilities, Types and Locations of Erosion & Sediment Control. Failure to submit updates shall be considered acceptance of the SWPPP as designed with no changes.
- Install perimeter sediment control, inlet protection, and construction exit.
- Remove existing surfaces as required.
- Complete site and utility improvements.
- Install additional inlet protection as needed.
- Reestablish turf.
- Add additional temporary BMPs as necessary during construction based on inspection reports.
- Ensure final stabilization measures are complete.
- Provide digital copy of all Field SWPPP Documentation including Inspection Reports and SWPPP Revisions to the Owner.
- Submit Notice of Termination (NOT) to MPCA. NOTE: The NOT must be submitted to MPCA before Final Stabilization is considered complete.

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Contractor must prepare and submit to the Engineer a SWPPP amendment as necessary to include additional Best Management Practices (BMPs) to correct problems identified or address the following situations.

- The Contractor may implement SWPPP amendments immediately and is not required to wait 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.

In addition to SWPPP amendments, the Contractor shall submit to the Engineer Weekly Erosion and Sediment Control Schedule meeting the requirements of MnDOT 1717.

## EROSION PREVENTION PRACTICES

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.

Mulch, hydromulch, tackifier, or 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.

## SEDIMENT CONTROL PRACTICES

All BMPs that have been adjusted or removed to accommodate short-term activities shall be re-installed or replaced the earlier of the end of the work day or before the next precipitation event even if the activity is not complete.

Temporary stockpiles must have sediment control BMPs. The Contractor shall prepare and submit to the Engineer a SWPPP amendment showing the location of temporary stockpiles and the BMPs for each stockpile. The SWPPP amendment must meet the minimum requirements of Section 9 of the Permit.

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 9 of the Permit.

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.


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TRIPPOINT DEVELOPMENT - RIVER HILLS MALL  
STORMWATER POLLUTION PREVENTION PLAN  
NARRATIVE

SHEET

C2.02



LEGEND

- PROJECT BOUNDARY
- SOIL TYPE



SOIL TYPE SUMMARY

| Map Unit<br>Symbol | Soil Name                                        | Hyd. Soil<br>Group | Erodibility |
|--------------------|--------------------------------------------------|--------------------|-------------|
| 109                | CORDOVA CLAY LOAM, 0 TO 2 PERCENT SLOPES         | C/D                | NHEL        |
| 286                | SHOREWOOD SILTY CLAY LOAM, 1 TO 6 PERCENT SLOPES | C/D                | NHEL        |

NHEL - Not Highly Erodible Land  
PHEL - Potentially Highly Erodible Land  
HEL - Highly Erodible Land

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

| DESCRIPTION                        | SHEET NO.     |
|------------------------------------|---------------|
| SITE MAP                           | C2.01         |
| NARRATIVE & NOTES                  | C2.01 C2.02   |
| SOILS                              | C2.03         |
| EROSION & SEDIMENT CONTROL DETAILS | C2.04 - C2.05 |
| DIRECTION OF FLOW                  | C2.06 - C2.08 |
| FINAL STABILIZATION                | C2.06 - C2.08 |

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WESLEY S. CORDES, P.E.  
LIC. NO. 64053 DATE MM/DD/YYYY



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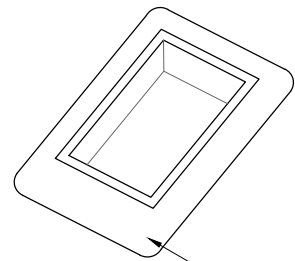
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| DRAWN            | WSC        |     |            |      |
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TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
STORMWATER POLLUTION PREVENTION PLAN  
SITE & SOILS MAP

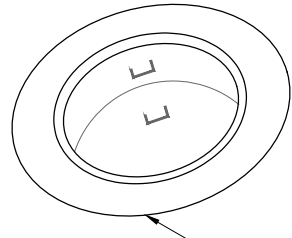
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C2.03

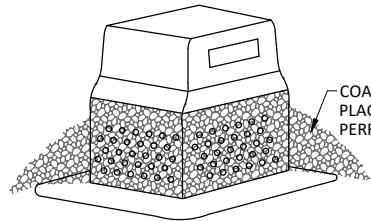
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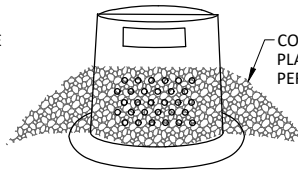
PLACE BARRIER FRAME  
ATOP PRE-CAST TOP SLAB



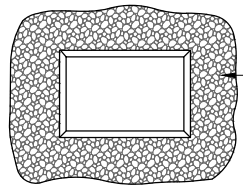
PLACE BARRIER FRAME  
ATOP PRE-CAST TOP SLAB



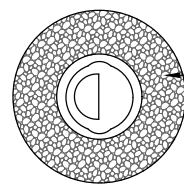
COARSE FILTER AGGREGATE  
PLACED TO COVER  
PERFORATIONS



COARSE FILTER AGGREGATE  
PLACED TO COVER  
PERFORATIONS

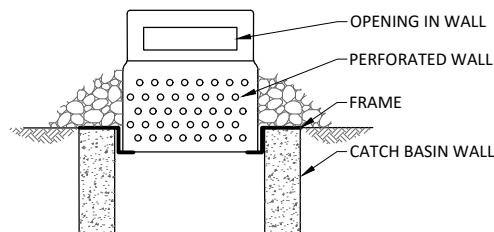


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PLACED TO COVER  
PERFORATIONS



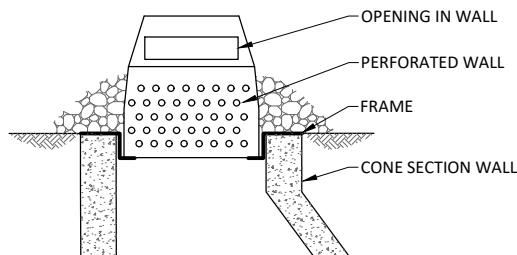
COARSE FILTER AGGREGATE  
PLACED TO COVER  
PERFORATIONS

TOP VIEW



OPENING IN WALL  
PERFORATED WALL  
FRAME  
CATCH BASIN WALL

TOP VIEW



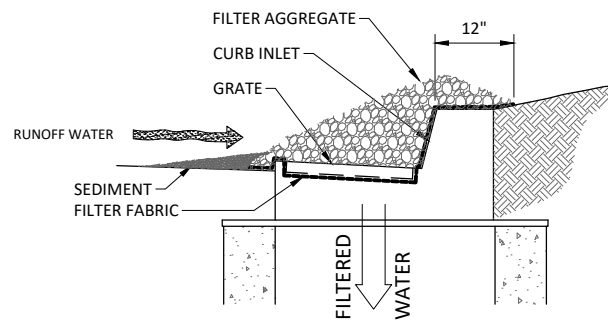
OPENING IN WALL  
PERFORATED WALL  
FRAME  
CONE SECTION WALL

#### INLET PROTECTION PERFORATED WALL

NOT TO SCALE

#### NOTES:

1. FILTER AGGREGATE TO BE 1 TO 2 INCH CLEAN ROCK
2. FILTER FABRIC SHALL MEET MnDOT SPECIFICATION 3733 GEOTEXTILE FABRIC TYPE 3



#### INLET PROTECTION FILTER AGGREGATE

NOT TO SCALE

INLET SPECIFICATIONS AS PER  
THE PLAN DIMENSION LENGTH  
AND WIDTH TO MATCH

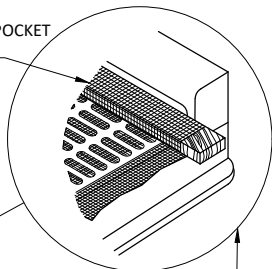
GEOTEXTILE FABRIC, TYPE WOVEN  
MONOFILAMENT CONFORMING TO  
SPEC. 3886, TABLE 3886-1  
MACHINE SLICE

FRONT, BACK AND BOTTOM  
TO BE MADE FROM SINGLE  
PIECE OF FABRIC

4"x6" OVAL HOLE SHALL BE  
HEAT CUT INTO ALL FOUR  
SIDE PANELS

FLAP POCKET

2



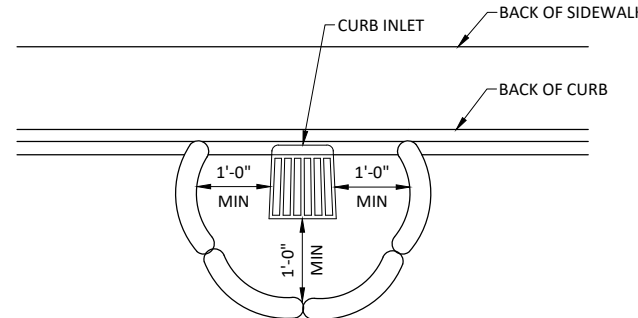
USE REBAR OR STEEL ROD  
FOR REMOVAL  
OR

FOR INLETS WITH CAST  
CURB BOX USE WOOD  
2x4, EXTEND 10" BEYOND  
GRATE WIDTH ON BOTH  
SIDES, LENGTH VARIES,  
SECURE TO GRATE WITH  
WIRE OR PLASTIC TIES

MINIMUM DOUBLE STITCHED  
SEAMS ALL AROUND SIDE  
PIECES AND ON FLAP POCKETS

#### INLET PROTECTION GEOTEXTILE BAG

NOT TO SCALE



#### NOTE:

THIS INLET PROTECTION IS USED DURING  
ROUGH GRADING ONLY, USE BEFORE ROAD  
IS OPEN TO TRAFFIC OR IS PAVED

FILL ROCK LOG WITH 45 LBS. OF OPEN  
GRADED AGGREGATE CONSISTING OF  
SOUND, DURABLE PARTICLES OF CRUSHED  
QUARRY ROCK OR GRAVEL CONFORMING  
TO THE FOLLOWING GRADATION.

| GRADATION  |                    |
|------------|--------------------|
| SIEVE SIZE | PERCENT<br>PASSING |
| 1 1/2"     | 100                |
| 1"         | 95-100             |
| 3/4"       | 65-95              |
| 3/8"       | 30-65              |
| NO 4       | 10-35              |
| NO 10      | 3-20               |
| NO 40      | 0-8                |
| NO 200     | 0-3                |

NOTE:  
CRUSHED CONCRETE OR BITUMINOUS  
SHALL NOT BE USED FOR OPEN  
GRADED AGGREGATE.

#### NOTES:

1 INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE  
DIRECTION OF THE ENGINEER. MANUFACTURED ALTERNATIVES APPROVED  
AND LISTED ON THE DEPARTMENTS EROSION CONTROL PRODUCT  
ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR  
MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE  
SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL IN THE INLET.  
ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

2 FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED, SHALL EXTEND A  
MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR  
REMOVAL.

FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

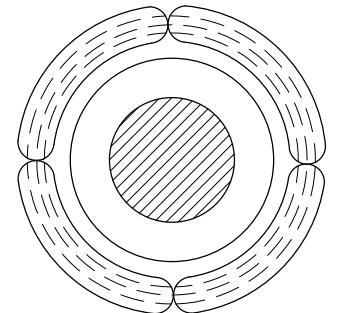
#### INSTALLATION NOTES:

DO NOT INSTALL PROTECTION IN INLETS SHALLOWER THAN 30", MEASURED  
FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

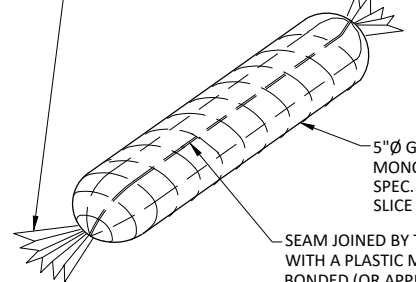
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE  
INLET AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES,  
OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING  
PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED  
AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

PAYMENT SHALL INCLUDE ALL MATERIALS,  
FILLING OF LOG, PLACEMENT,  
MAINTENANCE & REMOVAL;  
80% OF BID PRICE SHALL BE PAID UPON  
PROPER PLACEMENT WITH THE FINAL 20%  
PAID UPON REMOVAL



#### INLET PROTECTION WITH ROCK LOG

ENDS SECURELY CLOSED TO  
PREVENT LOSS OF OPEN  
GRADED AGGREGATE FILL,  
SECURED WITH 50 PSI ZIP TIE



5"Ø GEOTEXTILE SOCK, TYPE WOVEN  
MONOFILAMENT CONFORMING TO  
SPEC. 3886 TABLE 3886-1. MACHINE  
SLICE

SEAM JOINED BY TWO ROWS OF STITCHING  
WITH A PLASTIC MESH BACKING OR HEAT  
BONDED (OR APPROVED EQUAL)

#### INLET PROTECTION ROCK BAG

NOT TO SCALE

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WESLEY S. CORDS, P.E.  
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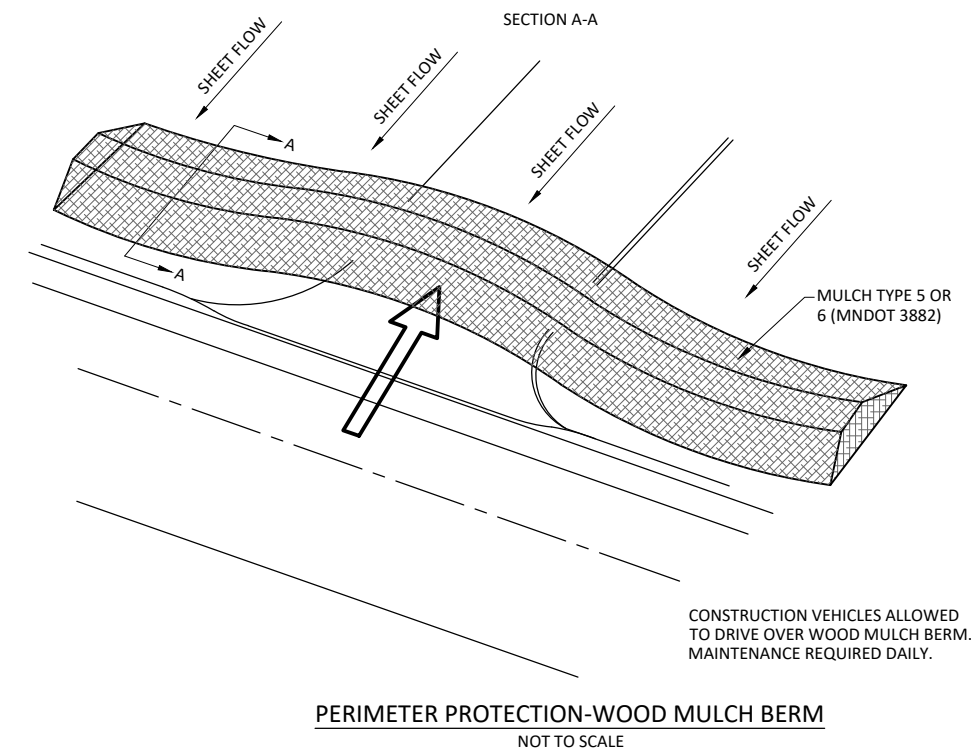
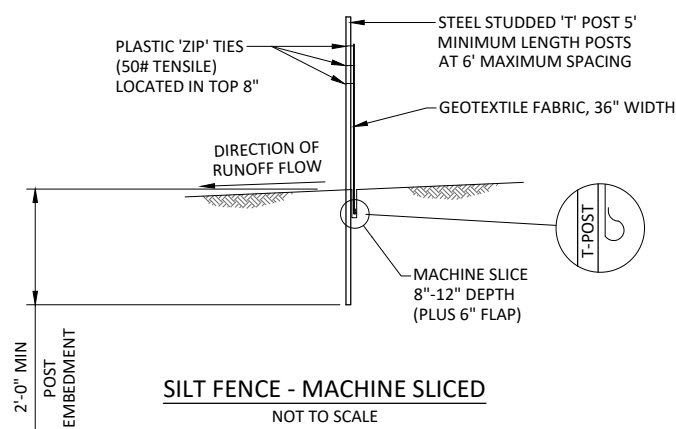
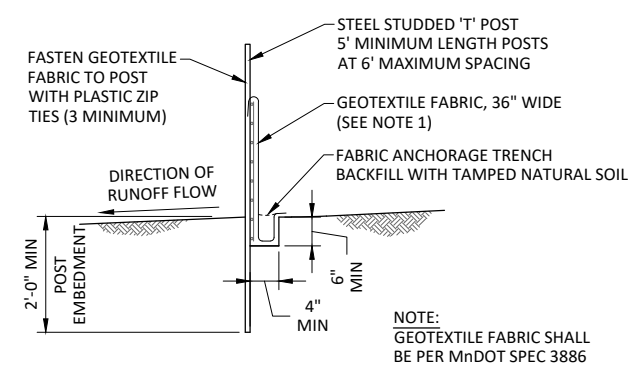
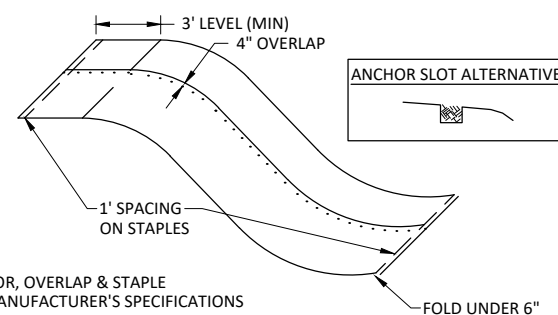
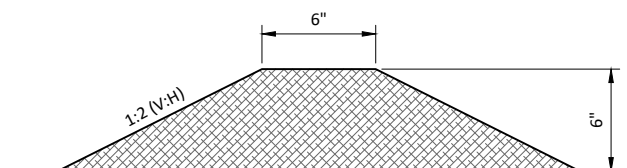
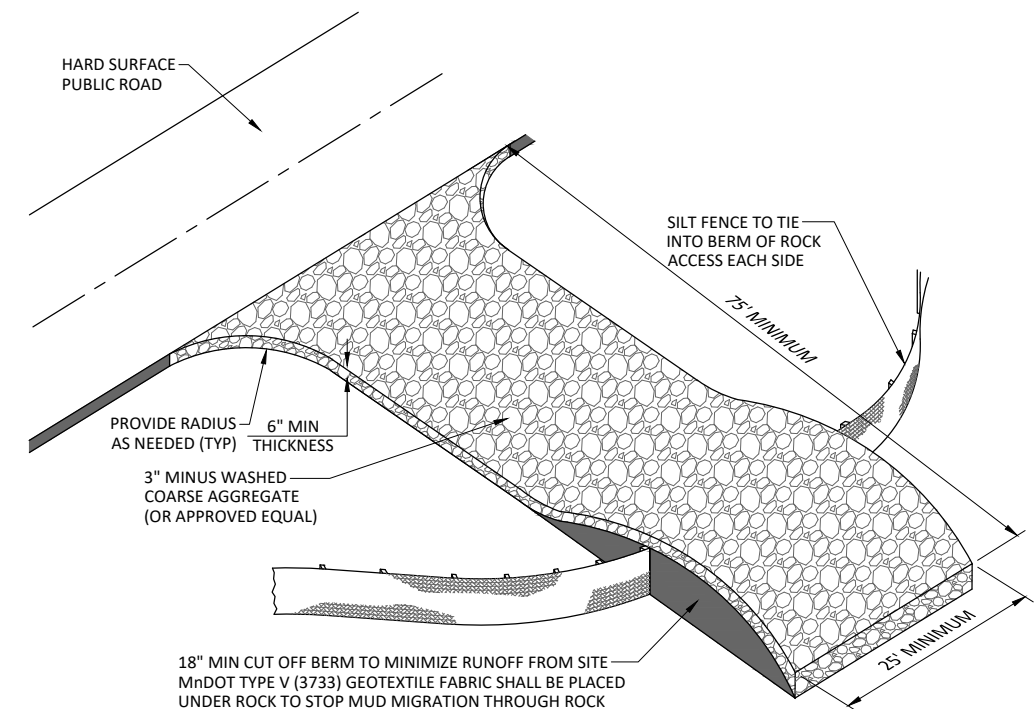
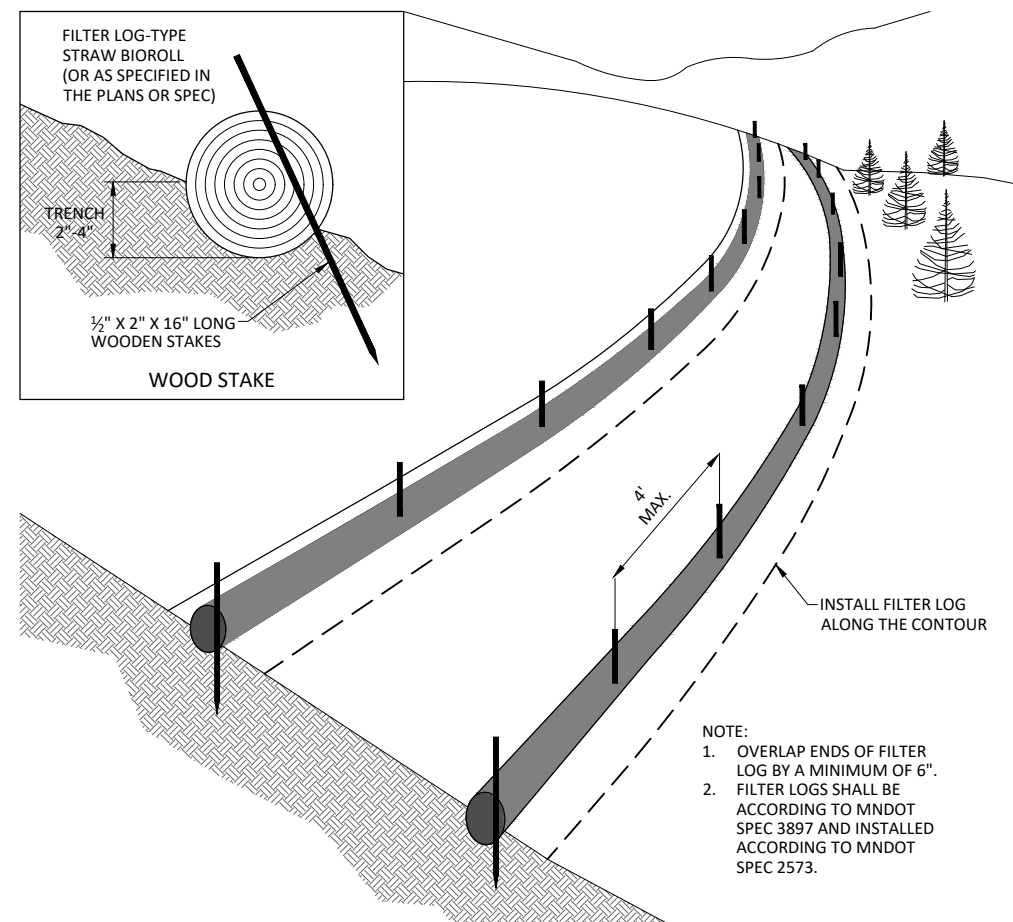
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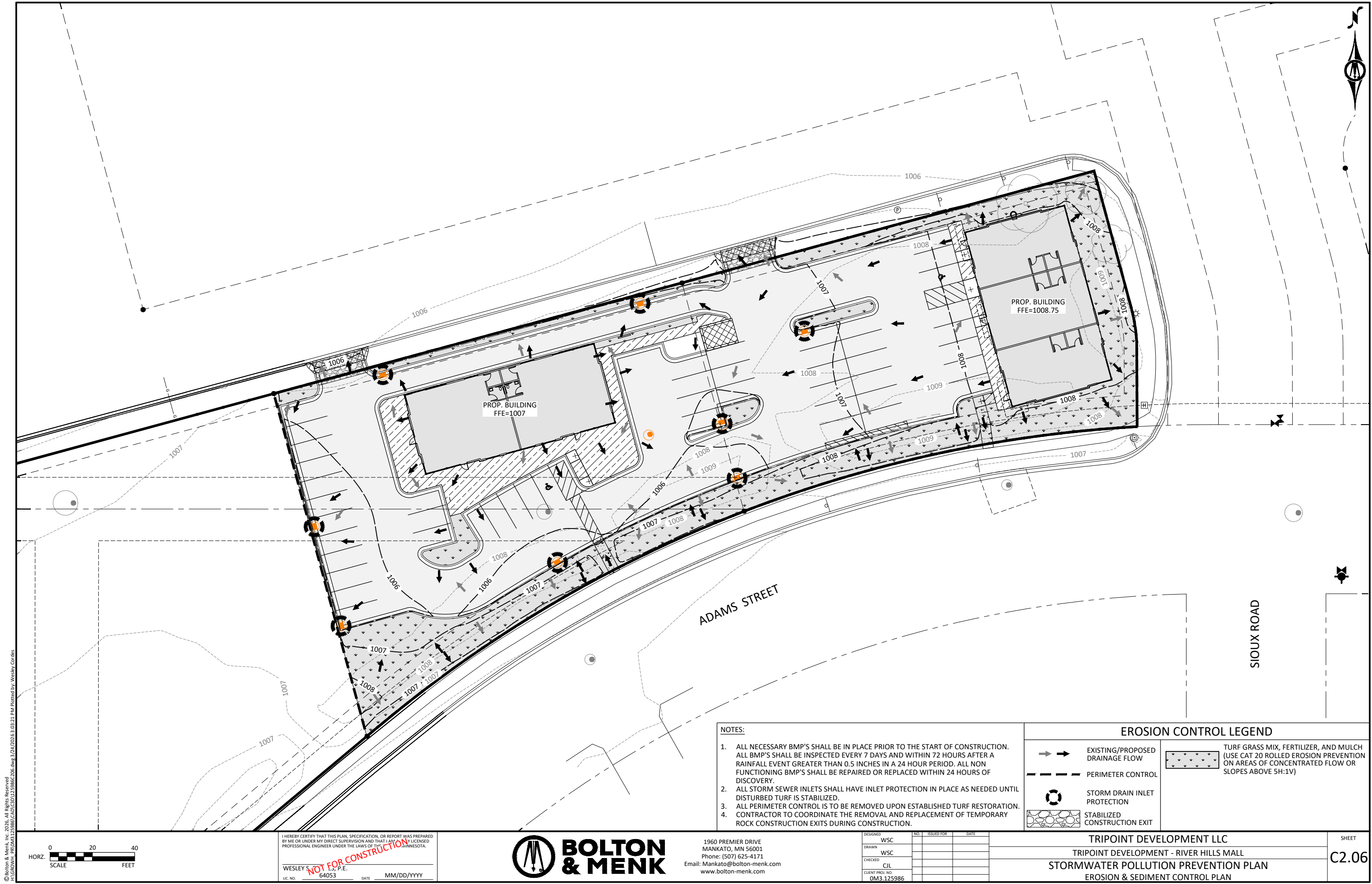
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TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
STORMWATER POLLUTION PREVENTION PLAN  
BEST MANAGEMENT PRACTICE DETAILS

SHEET

C2.04





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NOTES:

1. ALL NECESSARY BMP'S SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. ALL BMP'S SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 72 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN A 24 HOUR PERIOD. ALL NON FUNCTIONING BMP'S SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF DISCOVERY.
2. ALL STORM SEWER INLETS SHALL HAVE INLET PROTECTION IN PLACE AS NEEDED UNTIL DISTURBED TURF IS STABILIZED.
3. ALL PERIMETER CONTROL IS TO BE REMOVED UPON ESTABLISHED TURF RESTORATION.
4. CONTRACTOR TO COORDINATE THE REMOVAL AND REPLACEMENT OF TEMPORARY ROCK CONSTRUCTION EXITS DURING CONSTRUCTION.

EROSION CONTROL LEGEND

|  |                                 |  |                                                                                                                                  |
|--|---------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|
|  | EXISTING/PROPOSED DRAINAGE FLOW |  | TURF GRASS MIX, FERTILIZER, AND MULCH (USE CAT 20 ROLLED EROSION PREVENTION ON AREAS OF CONCENTRATED FLOW OR SLOPES ABOVE 5H:1V) |
|  | PERIMETER CONTROL               |  |                                                                                                                                  |
|  | STORM DRAIN INLET PROTECTION    |  |                                                                                                                                  |
|  | STABILIZED CONSTRUCTION EXIT    |  |                                                                                                                                  |



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LIC. NO. 64053 DATE MM/DD/YYYY



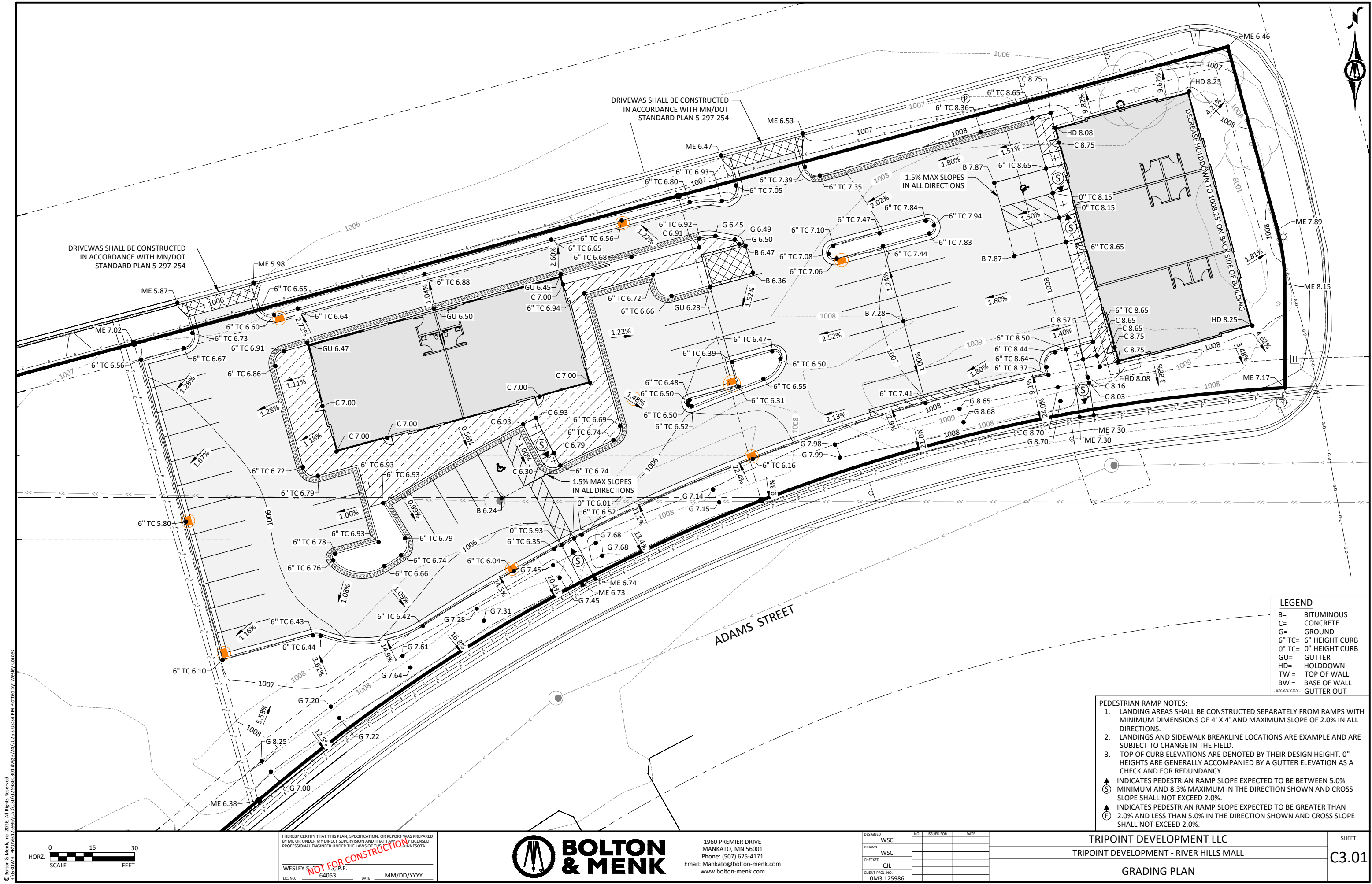
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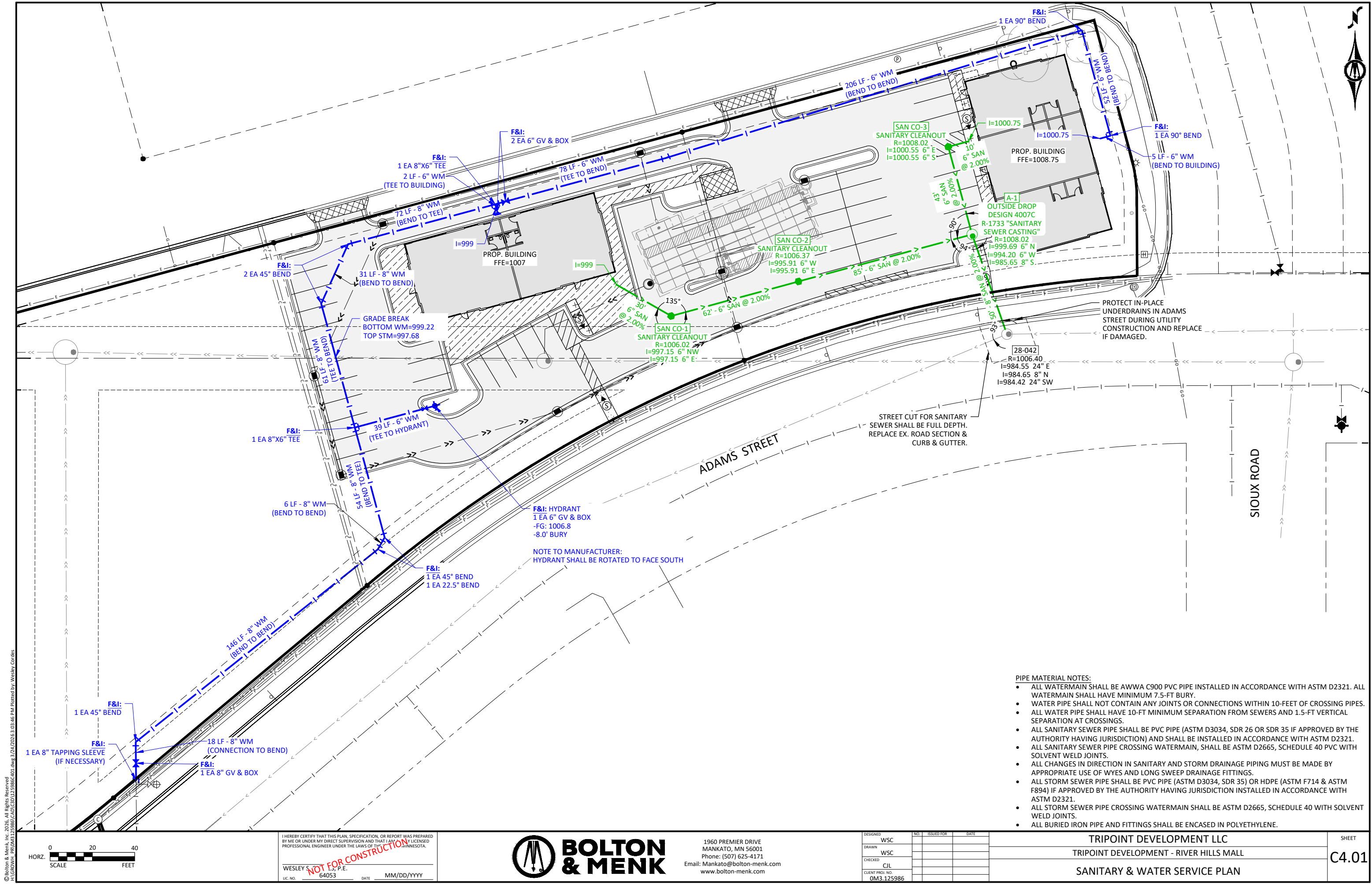
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TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
STORMWATER POLLUTION PREVENTION PLAN  
EROSION & SEDIMENT CONTROL PLAN

SHEET

C2.06





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- PIPE MATERIAL NOTES:**
- ALL WATERMAIN SHALL BE AWWA C900 PVC PIPE INSTALLED IN ACCORDANCE WITH ASTM D2321. ALL WATERMAIN SHALL HAVE MINIMUM 7.5-FT BURY.
  - WATER PIPE SHALL NOT CONTAIN ANY JOINTS OR CONNECTIONS WITHIN 10-FEET OF CROSSING PIPES.
  - ALL WATER PIPE SHALL HAVE 10-FT MINIMUM SEPARATION FROM SEWERS AND 1.5-FT VERTICAL SEPARATION AT CROSSINGS.
  - ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D3034, SDR 26 OR SDR 35 IF APPROVED BY THE AUTHORITY HAVING JURISDICTION) AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321.
  - ALL SANITARY SEWER PIPE CROSSING WATERMAIN, SHALL BE ASTM D2665, SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS.
  - ALL CHANGES IN DIRECTION IN SANITARY AND STORM DRAINAGE PIPING MUST BE MADE BY APPROPRIATE USE OF WYES AND LONG SWEEP DRAINAGE FITTINGS.
  - ALL STORM SEWER PIPE SHALL BE PVC PIPE (ASTM D3034, SDR 35) OR HDPE (ASTM F714 & ASTM F894) IF APPROVED BY THE AUTHORITY HAVING JURISDICTION INSTALLED IN ACCORDANCE WITH ASTM D2321.
  - ALL STORM SEWER PIPE CROSSING WATERMAIN SHALL BE ASTM D2665, SCHEDULE 40 WITH SOLVENT WELD JOINTS.
  - ALL BURIED IRON PIPE AND FITTINGS SHALL BE ENCASED IN POLYETHYLENE.



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TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
SANITARY & WATER SERVICE PLAN

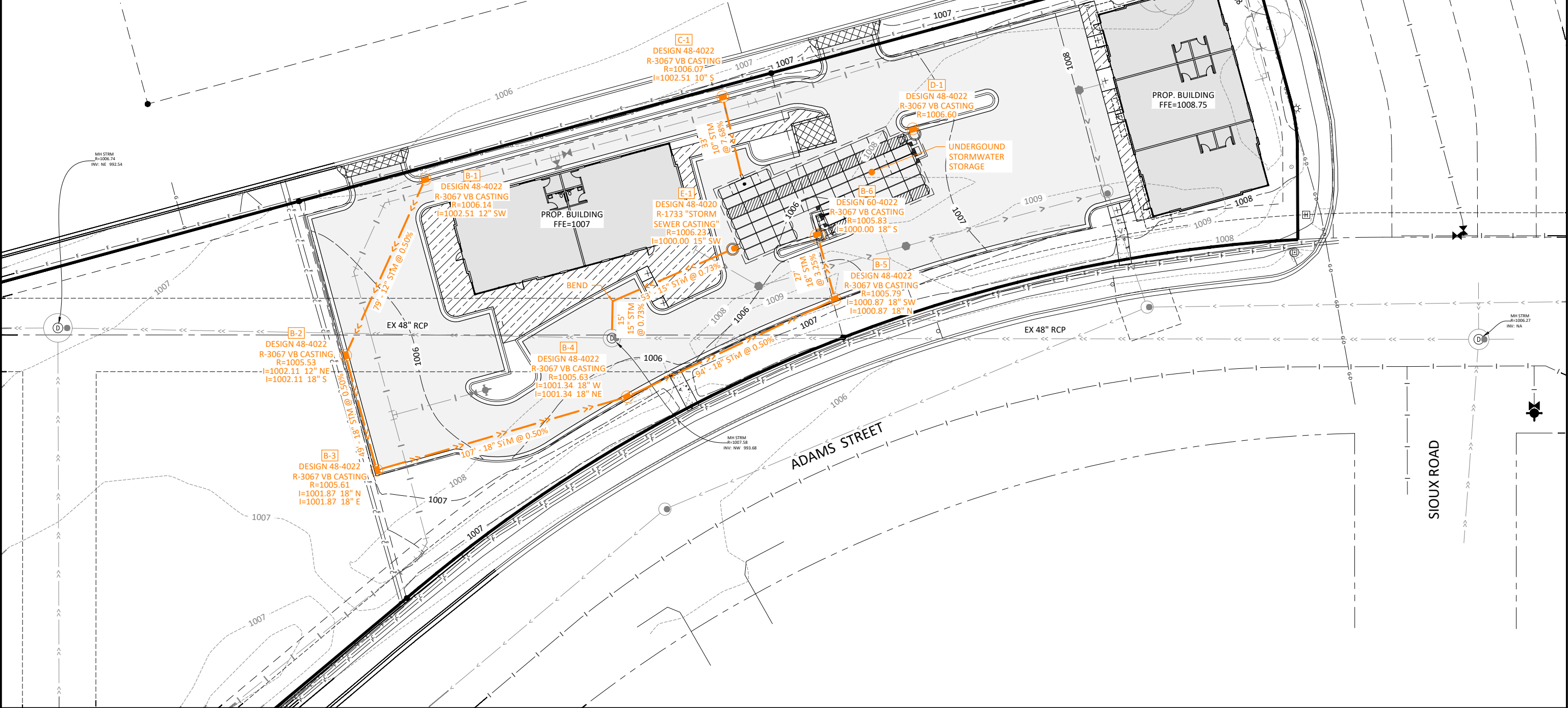
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- ALL BURIED IRON PIPE AND FITTINGS SHALL BE ENCASED IN POLYETHYLENE.

DOWNSPOUT NOTE:

- CONTRACTOR TO VERIFY ALL DOWNSPOUT LOCATIONS AND CONNECTIONS WITH ARCHITECT.
- DOWNSPOUT LEADERS SHALL BE CONNECTED TO HEADER OR STORM MAIN WITH WATER TIGHT CONNECTION IN ACCORDANCE WITH MINNESOTA PLUMBING CODE. ALL CONNECTIONS SHALL BE MADE WITH WYES AND LONG SWEEP DRAINAGE FITTINGS.
- MAINTAIN 18" VERTICAL CLEARANCE FOR ALL DOWNSPOUT CROSSINGS



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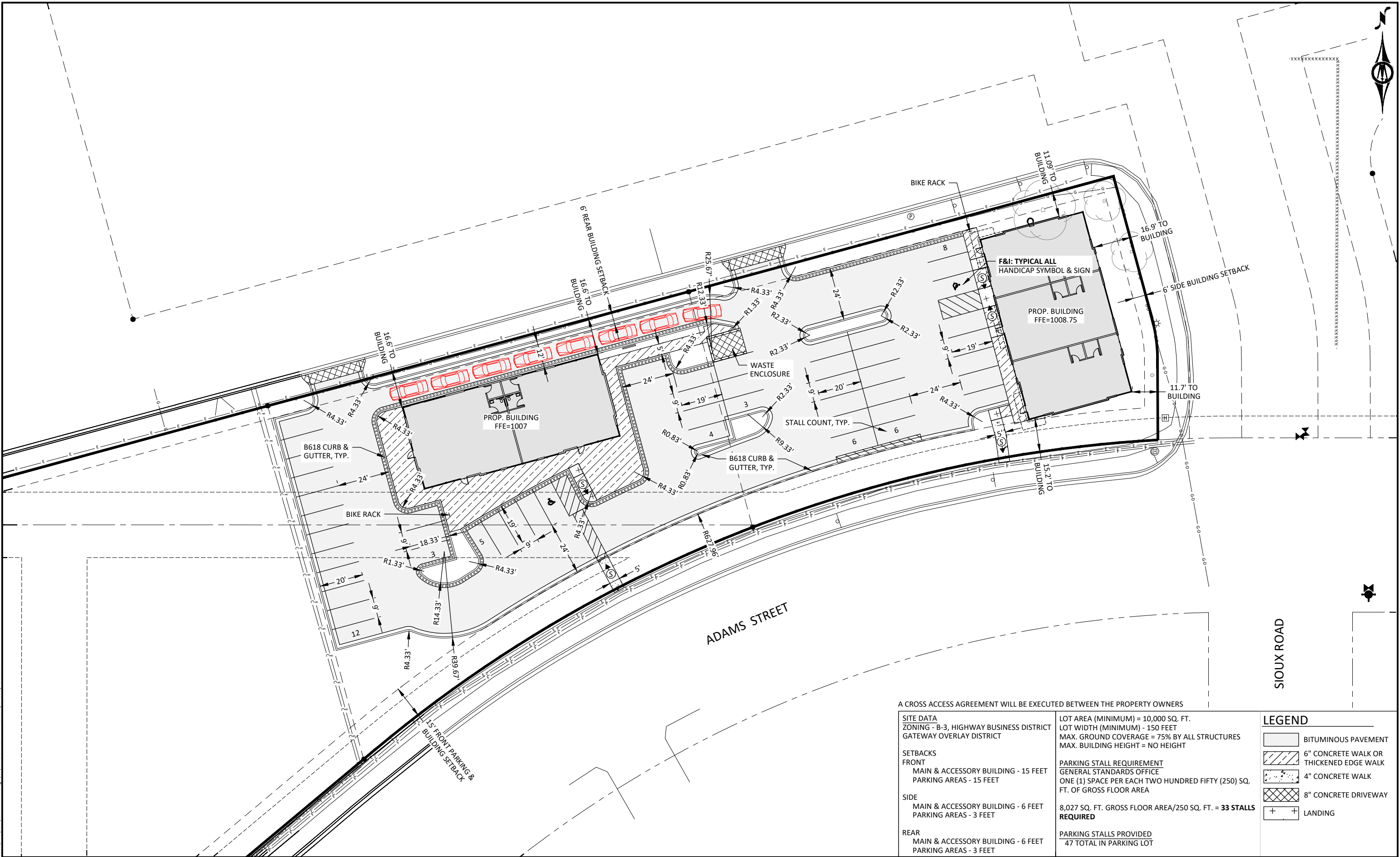
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TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
STORM SEWER PLAN

SHEET  
C5.01

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A CROSS ACCESS AGREEMENT WILL BE EXECUTED BETWEEN THE PROPERTY OWNERS

**SITE DATA**  
ZONING - B-3, HIGHWAY BUSINESS DISTRICT  
GATEWAY OVERLAY DISTRICT

**SETBACKS**  
**FRONT**  
MAIN & ACCESSORY BUILDING - 15 FEET  
PARKING AREAS - 15 FEET

**SIDE**  
MAIN & ACCESSORY BUILDING - 6 FEET  
PARKING AREAS - 3 FEET

**REAR**  
MAIN & ACCESSORY BUILDING - 6 FEET  
PARKING AREAS - 3 FEET

LOT AREA (MINIMUM) = 10,000 SQ. FT.  
LOT WIDTH (MINIMUM) - 150 FEET  
MAX. GROUND COVERAGE = 75% BY ALL STRUCTURES  
MAX. BUILDING HEIGHT = NO HEIGHT

**PARKING STALL REQUIREMENT**  
GENERAL STANDARDS OFFICE  
ONE (1) SPACE PER EACH TWO HUNDRED FIFTY (250) SQ. FT. OF GROSS FLOOR AREA

8,027 SQ. FT. GROSS FLOOR AREA/250 SQ. FT. = **33 STALLS REQUIRED**

**PARKING STALLS PROVIDED**  
47 TOTAL IN PARKING LOT

| LEGEND |                                         |
|--------|-----------------------------------------|
|        | BITUMINOUS PAVEMENT                     |
|        | 6" CONCRETE WALK OR THICKENED EDGE WALK |
|        | 4" CONCRETE WALK                        |
|        | 8" CONCRETE DRIVEWAY                    |
|        | LANDING                                 |



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

WESLEY S. CORDS, P.E.  
LIC. NO. 64053 DATE MM/DD/YYYY



1960 PREMIER DRIVE  
MANKATO, MN 56001  
Phone: (507) 625-4171  
Email: Mankato@bolton-menk.com  
www.bolton-menk.com

| DESIGNED         | NO. | ISSUED FOR | DATE |
|------------------|-----|------------|------|
| WSC              |     |            |      |
| DRAWN            |     |            |      |
| WSC              |     |            |      |
| CHECKED          |     |            |      |
| CJL              |     |            |      |
| CLIENT PROJ. NO. |     |            |      |
| 0M3.125986       |     |            |      |

TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
SITE PLAN

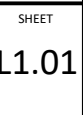
SHEET  
C6.01

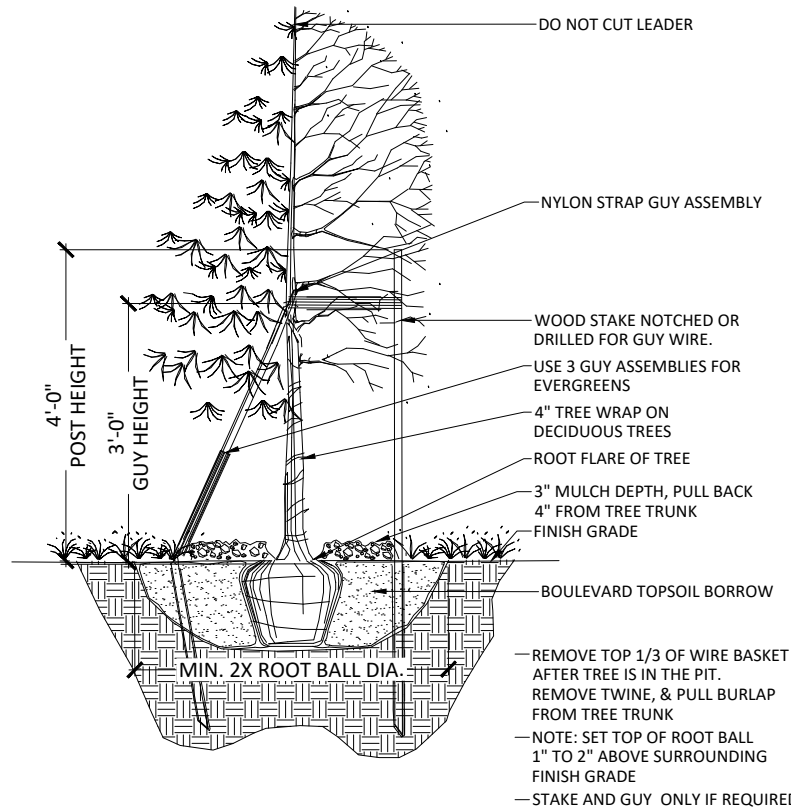
| PLANT SCHEDULE   |     |                                            |                                  |         |            |           |          |
|------------------|-----|--------------------------------------------|----------------------------------|---------|------------|-----------|----------|
| CODE             | QTY | BOTANICAL NAME                             | COMMON NAME                      | CALIPER | HEIGHT     | CONTAINER | SPACING  |
| CANOPY TREES     |     |                                            |                                  |         |            |           |          |
| AS               | 3   | ACER X FREEMANII 'SIENNA'                  | SIENNA GLEN® MAPLE               | 2" CAL. | N.A.       | B&B       | PER PLAN |
| GI               | 2   | GLEDTISIA TRIACANTHOS INERMIS 'SKYCOLE'    | SKYLINE® HONEY LOCUST            | 2" CAL. | N.A.       | B&B       | PER PLAN |
| GD               | 2   | GYMNOCLADUS DIOICUS 'ESPRESSO-JFS'         | ESPRESSO™ KENTUCKY COFFEETREE    | 2" CAL. | N.A.       | B&B       | PER PLAN |
| EVERGREEN TREES  |     |                                            |                                  |         |            |           |          |
| JT               | 14  | JUNIPERUS VIRGINIANA 'TAYLOR'              | TAYLOR EASTERN REDCEDAR          | N.A.    | 6 - 8' HT. | B&B       | PER PLAN |
| CODE             | QTY | BOTANICAL NAME                             | COMMON NAME                      | SPREAD  | HEIGHT     | CONTAINER | SPACING  |
| DECIDUOUS SHRUBS |     |                                            |                                  |         |            |           |          |
| DL               | 9   | DIERVILLA LONICERA 'MICHIGAN SUNSET'       | DWARF BUSH HONEYSUCKLE           | N.A.    | N.A.       | #5 CONT.  | PER PLAN |
| HB               | 9   | HYDRANGEA PANICULATA 'ILVOBO'              | BOBO® PANICLE HYDRANGEA          | N.A.    | N.A.       | #5 CONT.  | PER PLAN |
| SG               | 27  | SPIRAEA JAPONICA 'GOLD MOUND'              | GOLDMOUND SPIREA                 | N.A.    | N.A.       | #5 CONT.  | PER PLAN |
| EVERGREEN SHRUBS |     |                                            |                                  |         |            |           |          |
| TT               | 32  | TAXUS X MEDIA 'TAUNTONII'                  | TAUNTON YEW                      | N.A.    | N.A.       | #5 CONT.  | PER PLAN |
| PERENNIALS       |     |                                            |                                  |         |            |           |          |
| CK               | 14  | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' | KARL FOERSTER FEATHER REED GRASS | N.A.    | N.A.       | #1 CONT.  | PER PLAN |
| EP               | 20  | ECHINACEA X 'PAS702918'                    | POWOW® WHITE CONEFLOWER          | N.A.    | N.A.       | #1 CONT.  | PER PLAN |
| SH               | 26  | SPOROBOLUS HETEROLEPIS                     | PRAIRIE DROPSIED                 | N.A.    | N.A.       | #1 CONT.  | PER PLAN |

## LANDSCAPE SUMMARY

FOUNDATION LANDSCAPE PROVIDED: 73 SHRUBS

1. MASTER PLANT SCHEDULE: ALL PLANT MATERIALS ARE LISTED IN THE MASTER PLANT SCHEDULE. IF THERE IS A CONFLICT BETWEEN THE QUANTITIES SHOWN ON THE DRAWING AND THE QUANTITIES SHOWN IN THE PLANT SCHEDULE, THE PLAN QUANTITIES SHALL PREVAIL.
2. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, ACCESSORY STRUCTURES, PAVEMENT, PLANTINGS, OR OTHER SPECIFIED IMPERVIOUS SURFACE SHALL RECEIVE SOD PER EROSION AND SEDIMENT CONTROL PLANS.
3. CONTRACTOR TO PRESERVE AND PROTECT EXISTING TREES AND SHRUBS, UNLESS OTHERWISE NOTED. ANY PLANT MATERIAL DAMAGED DUE TO CONTRACTOR NEGLIGENCE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
4. PLANTINGS TO FOLLOW MNDOT'S SPEC SECTION 25.71 UNLESS NOTED OTHERWISE ON THE DRAWINGS.





1 TREE PLANTING  
SCALE: N.T.S.

**permaloc**  
WORLD'S BEST LANDSCAPE EDGING

PERMALOC CORPORATION  
13505 BARRY ST  
HOLLAND, MI 49424  
TOLL FREE: 1-800-356-9660  
PHONE: (616) 399-9600  
FAX: (616) 399-9770  
www.permaloc.com

☒ SELECT DESIRED SIZE:

- ☐ 1/8" X 3 1/2" (3.2 MM X 89 MM), 0.06" (1.52 MM) THICK WITH 0.2" (5.08 MM) EXPOSED TOP LIP
- ☐ 3/16" X 3 1/2" (4.8 MM X 89 MM), 0.076" (1.93 MM) THICK WITH 0.2" (5.08 MM) EXPOSED TOP LIP
- ☐ 1/8" X 4" (3.2 MM X 101.6 MM), 0.06" (1.52 MM) THICK WITH 0.2" (5.08 MM) EXPOSED TOP LIP
- ☐ 3/16" X 4" (4.8 MM X 101.6 MM), 0.076" (1.93 MM) THICK WITH 0.2" (5.08 MM) EXPOSED TOP LIP
- ☐ 1/8" X 6" (3.2 MM X 152.4 MM), 0.06" (1.52 MM) THICK WITH 0.2" (5.08 MM) EXPOSED TOP LIP
- ☐ 3/16" X 6" (4.8 MM X 152.4 MM), 0.076" (1.93 MM) THICK WITH 0.2" (5.08 MM) EXPOSED TOP LIP

☒ SELECT DESIRED FINISH:

- ☐ MF - MILL FINISH-NATURAL ALUMINUM
- ☐ BL - BLACK DURAFLEX-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603

ISOMETRIC VIEW

PERMALOC PERMASTRIP  
ALUMINUM EDGING  
TOP OF EDGING TO BE MAXIMUM OF 1/2" (12.7 MM) ABOVE SURFACE MATERIAL

COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING

STONE OR MULCH

HORIZONTAL BASE FOR EXTRA RIGIDITY

12" (305 MM) ALUMINUM STAKES TO LOCK INTO PERFORMED LOOPS ON THE EDGING

SIDE VIEW

NOTES:

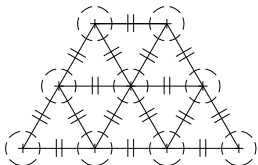
1. INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES".
2. 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM STAKES.
3. 16'-0" (4.88 M) SECTIONS TO INCLUDE (6) 12" (305 MM) ALUMINUM STAKES.
4. CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.
5. PERMALOC PERMASTRIP AS MANUFACTURED BY PERMALOC CORPORATION.
6. DO NOT SCALE DRAWING.
7. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
8. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
9. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) AND ENTER REFERENCE NUMBER 006-045.

PERMASTRIP™ ALUMINUM MAINTENANCE STRIP

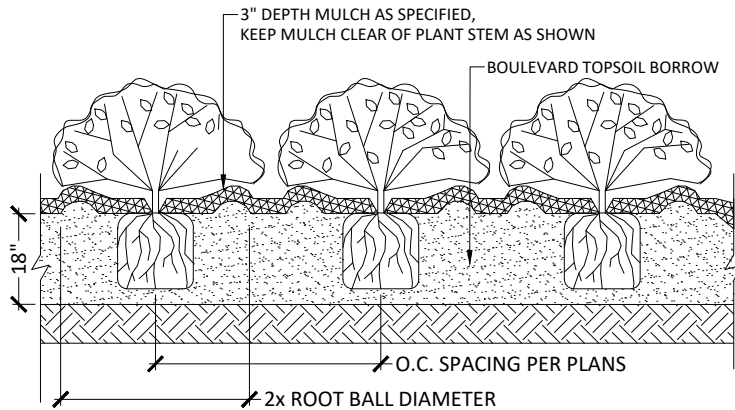
PLANTING BED EDGING - STONE AND TURF CAD FILES PS-1

006-045  
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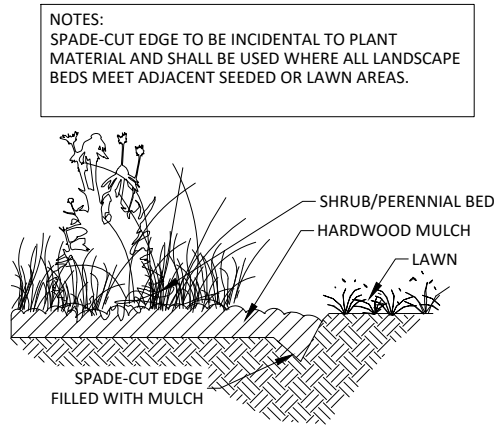
REVISION DATE 11/25/2014  
CADdetails.com



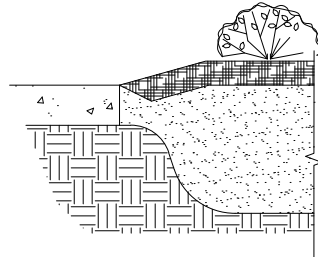
2 PERENNIAL PLANT SPACING  
SCALE: N.T.S.



3 PERENNIAL / SHRUB PLANTING  
SCALE: N.T.S.



4 SECTION: SPADE-CUT EDGE  
SCALE: N.T.S.



5 PLANTING EDGE AT HARDSCAPE SURFACE  
SCALE: N.T.S.

| DESIGNED         | NO. | ISSUED FOR | DATE |
|------------------|-----|------------|------|
| DRAWN            |     |            |      |
| CHECKED          |     |            |      |
| CLIENT PROJ. NO. |     |            |      |
| 0M3.125986       |     |            |      |

TRIPOINT DEVELOPMENT LLC  
TRIPOINT DEVELOPMENT - RIVER HILLS MALL  
LANDSCAPE  
LANDSCAPE NOTES & DETAILS