

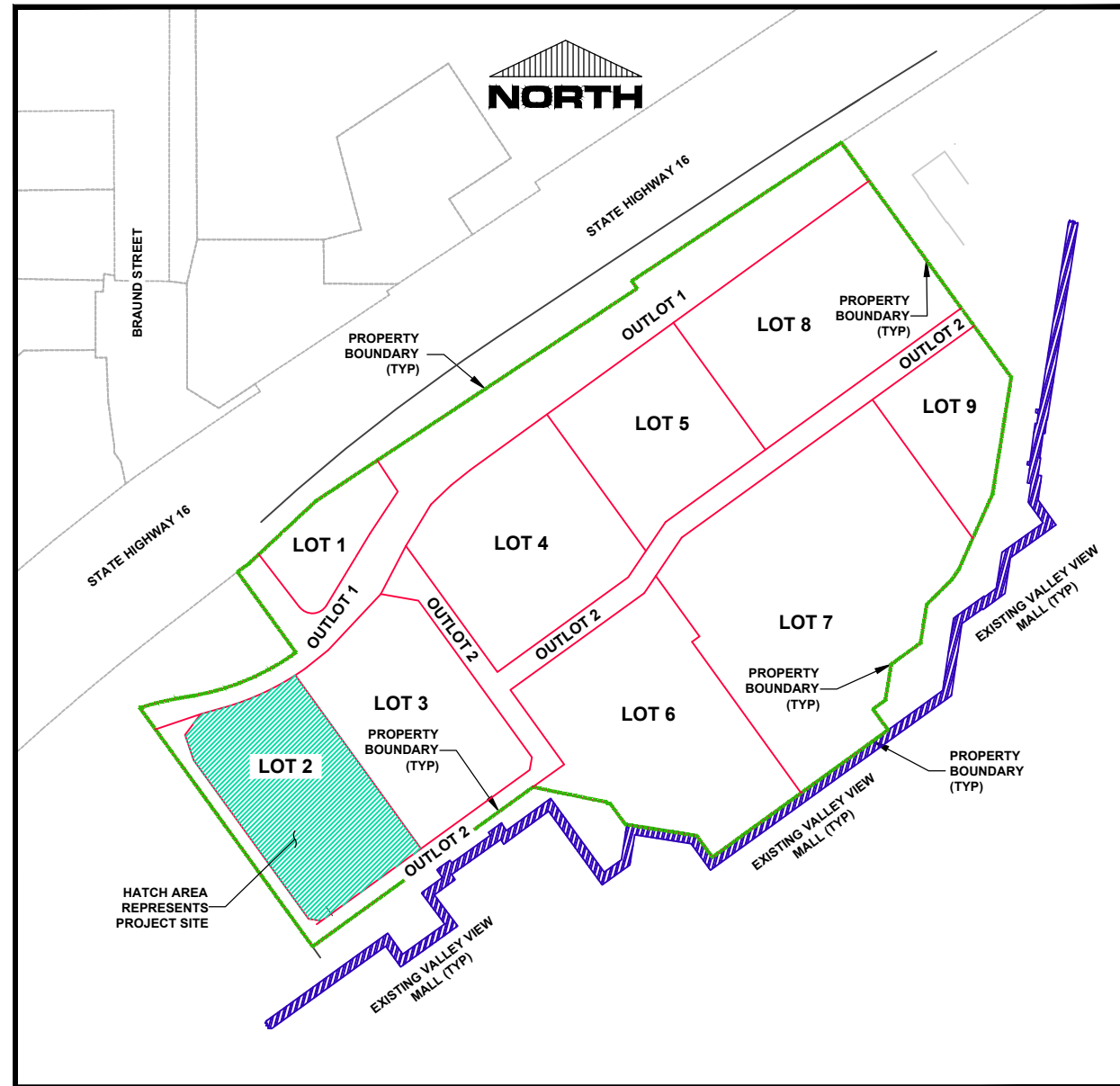
GMX REAL ESTATE GROUP - STARBUCKS

COMMERCIAL DEVELOPMENT

CITY OF LA CROSSE, LA CROSSE COUNTY



VICINITY MAP
(N.T.S.)



PROJECT SITE
3900 STATE HIGHWAY 16 - LOT 2
CITY OF LA CROSSE, LA CROSSE COUNTY
(N.T.S.)

OWNER:

MR. ANDREW GOODMAN
GMX REAL ESTATE GROUP, LLC
C/O: ONALASKA 9016, LLC.
3000 DUNDEE ROAD #408
NORTHBROOK, IL 60062
EMAIL: ASG@GMXRE.COM
PHONE: (312) 607-6418

ENGINEER:

EVERYDAY SURVEYING & ENGINEERING, LLC
MR. MARK ERICKSON
711 S. HILLCREST PARKWAY
ALTOONA, WI 54720
EMAIL: MARK@ESELLC.CO
PHONE: 715-831-0654

SHEET INDEX:

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D-2	STORM SEWER DETAILS
D-3	WATERMAIN DETAILS
D-6	SANITARY SEWER DETAILS

ADDITIONAL CONTACT INFORMATION:

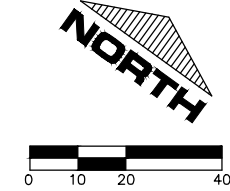
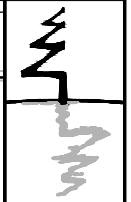
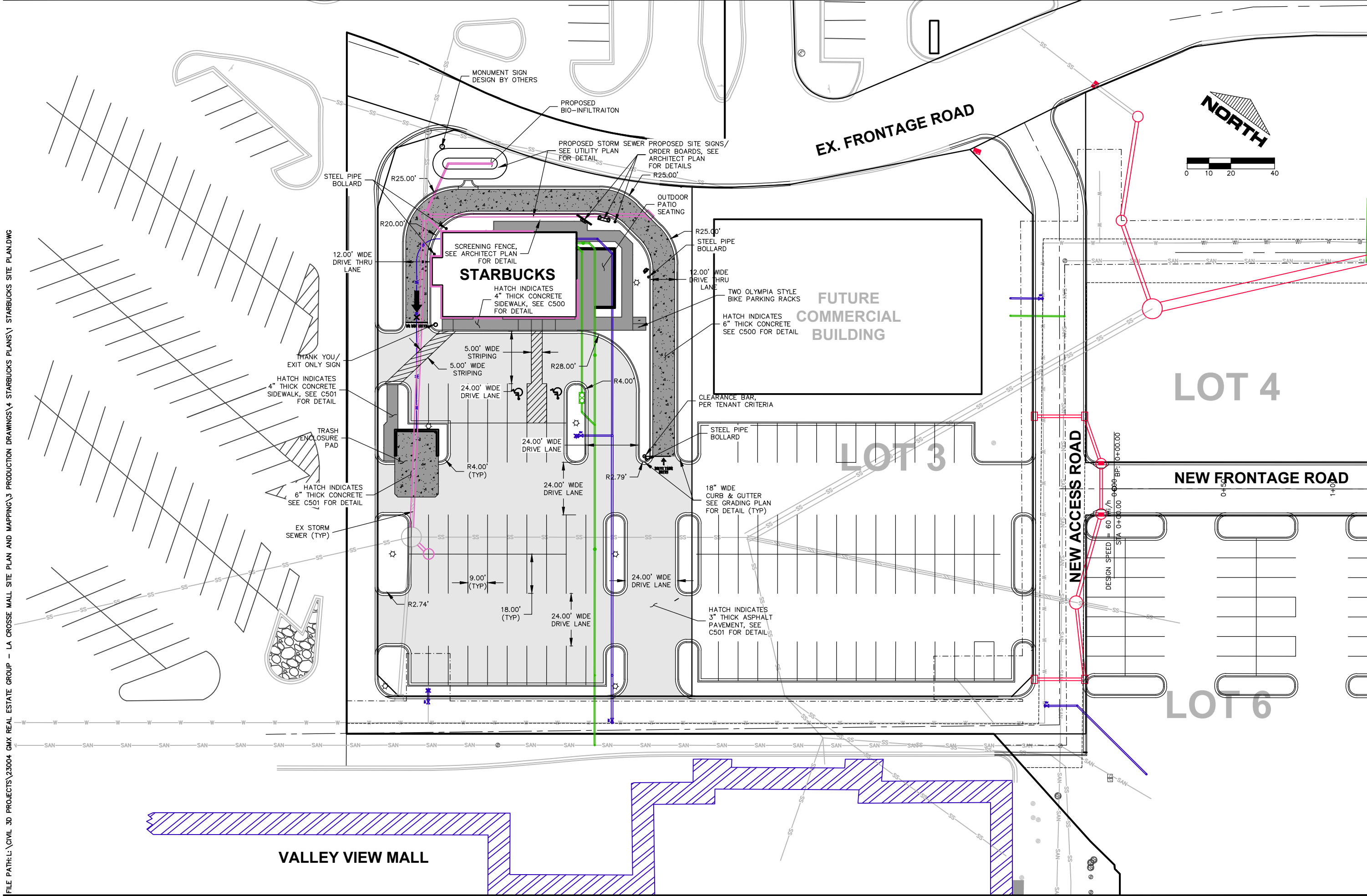
BRIGHTSPEED BTSP1	1-833-363-2894
CITY OF LA CROSSE	1-607-789-7384
WISCONSIN DOT DISTRICT 5	1-630-288-9176
CHARTER COMMUNICATIONS	1-262-446-9821
METRO FIBERNET	1-262-446-9891
XCEL ENERGY	1-800-895-4999
CITY OF ONALASKA	1-608-781-9545



ESE PROJECT #: 23004
DATE: 03-22-2024
REVISION: 08-02-2024

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FILE PATH: L:\CIVIL 3D PROJECTS\23004 GMX REAL ESTATE GROUP - LA CROSSE MALL SITE PLAN AND MAPPING\3 PRODUCTION DRAWINGS\4 STARBUCKS PLANS\1 STARBUCKS SITE PLAN.DWG

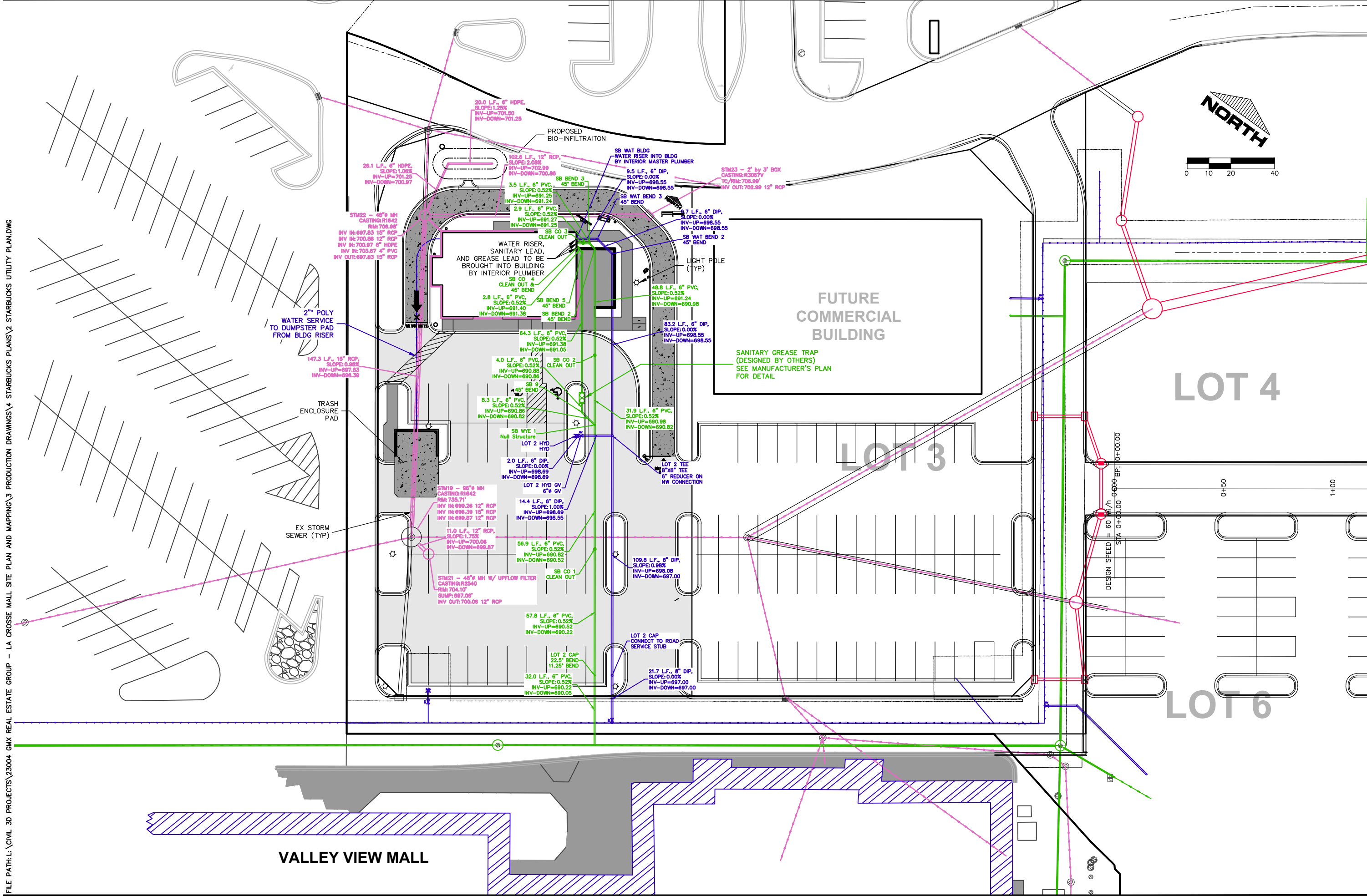


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JOB NO: 23004
DWG NAME: ---
APPR: XX-XX-XX
DATE: 08-02-2024

GMX REAL ESTATE GROUP - LA CROSSE
SITE PLAN - OVERVIEW
CITY OF LA CROSSE, LA CROSSE COUNTY, WI
SHEET NO: C101

FILE PATH: L:\CIVIL 3D PROJECTS\23004 GMX REAL ESTATE GROUP - LA CROSSE MALL SITE PLAN AND MAPPING\3 PRODUCTION DRAWINGS\4 STARBUCKS PLANS\2 STARBUCKS UTILITY PLANDWG



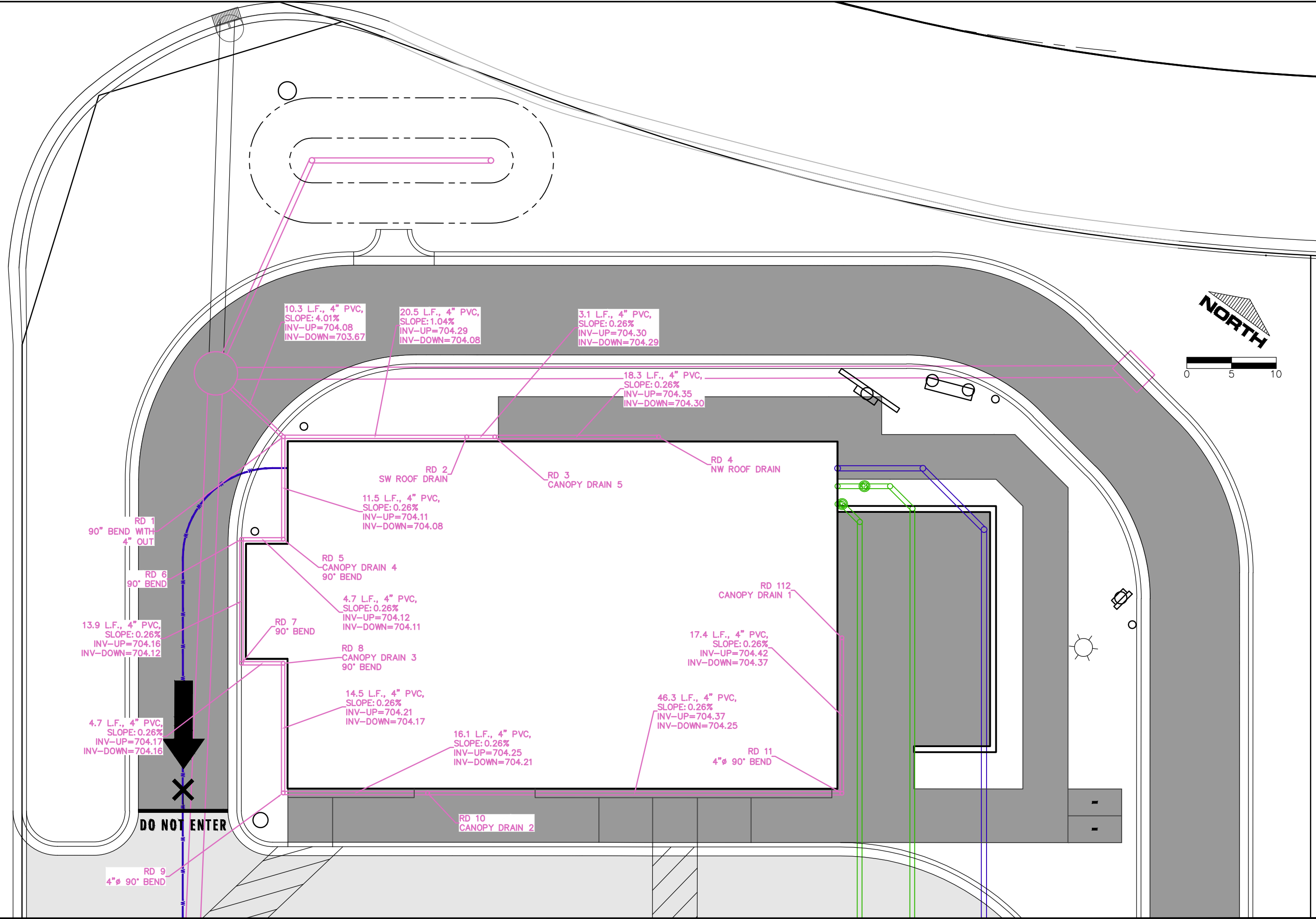
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DR BY: SRM	JOB NO: 23004
CHK BY: XXX	DWG NAME: ---
DATE: 08-02-2024	APPR: XX-XX-XX

GMX REAL ESTATE GROUP - LA CROSSE
UTILITY PLAN
CITY OF LA CROSSE, LA CROSSE COUNTY, WI

SHEET NO: C102

FILE PATH: L:\CIVIL 3D PROJECTS\23004 GMX REAL ESTATE GROUP - LA CROSSE MALL SITE PLAN AND MAPPING\3 PRODUCTION DRAWINGS\4 STARBUCKS PLANS\2 STARBUCKS UTILITY PLANDWG



10.3 L.F., 4" PVC,
SLOPE: 4.01%
INV-UP=704.08
INV-DOWN=703.67

20.5 L.F., 4" PVC,
SLOPE: 1.04%
INV-UP=704.29
INV-DOWN=704.08

3.1 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.30
INV-DOWN=704.29

18.3 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.35
INV-DOWN=704.30

RD 1
90° BEND WITH
4" OUT

RD 2
SW ROOF DRAIN

RD 3
CANOPY DRAIN 5

RD 4
NW ROOF DRAIN

11.5 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.11
INV-DOWN=704.08

RD 5
CANOPY DRAIN 4
90° BEND

RD 6
90° BEND

13.9 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.16
INV-DOWN=704.12

RD 7
90° BEND

4.7 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.12
INV-DOWN=704.11

RD 8
CANOPY DRAIN 3
90° BEND

RD 9
4" Ø 90° BEND

14.5 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.21
INV-DOWN=704.17

RD 10
CANOPY DRAIN 2

16.1 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.25
INV-DOWN=704.21

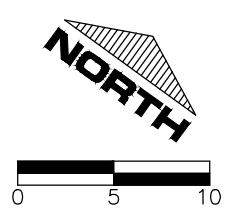
RD 11
4" Ø 90° BEND

RD 112
CANOPY DRAIN 1

17.4 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.42
INV-DOWN=704.37

46.3 L.F., 4" PVC,
SLOPE: 0.26%
INV-UP=704.37
INV-DOWN=704.25

DO NOT ENTER



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CHK BY:	XXX	DWG NAME:	---
DATE:	08-02-2024	APPR:	XX-XX-XX

GMX REAL ESTATE GROUP - LA CROSSE
UTILITY PLAN - ROOF LEADER SYSTEM
CITY OF LA CROSSE, LA CROSSE COUNTY, WI

SHEET NO:
C102-B

FILE PATH: L:\CIVIL 3D PROJECTS\23004 GMX REAL ESTATE GROUP - LA CROSSE MALL SITE PLAN AND MAPPING\3 PRODUCTION DRAWINGS\4 STARBUCKS PLANS\3 STARBUCKS GRADING PLANDWG

VALLEY VIEW MALL

PROPOSED
BIO-INFILTRATION
TOP: 706.50'
FLOOR: 705.00'
BOTTOM: 701.00'

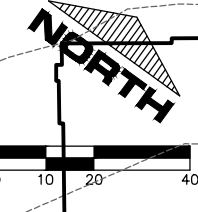
STARBUCKS
FF: 708.00'

FUTURE
COMMERCIAL
BUILDING

LOT 3

LOT 4

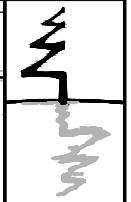
LOT 6



STARBUCK CURB TABLE

- REJECT CURB (SITE 1.A)
- REJECT CURB - MOUNTABLE (SITE 1.B)
- CATCH CURB - TYPICAL CURB (SITE 1.C)
- CATCH CURB - VALLEY CURB (SITE 1.D)
- CURB TRANSITION

DESIGN SPEED = 60 MI/H
SFA 0+00.00 9+00.00
G+00.00 BPI: 10+00.00



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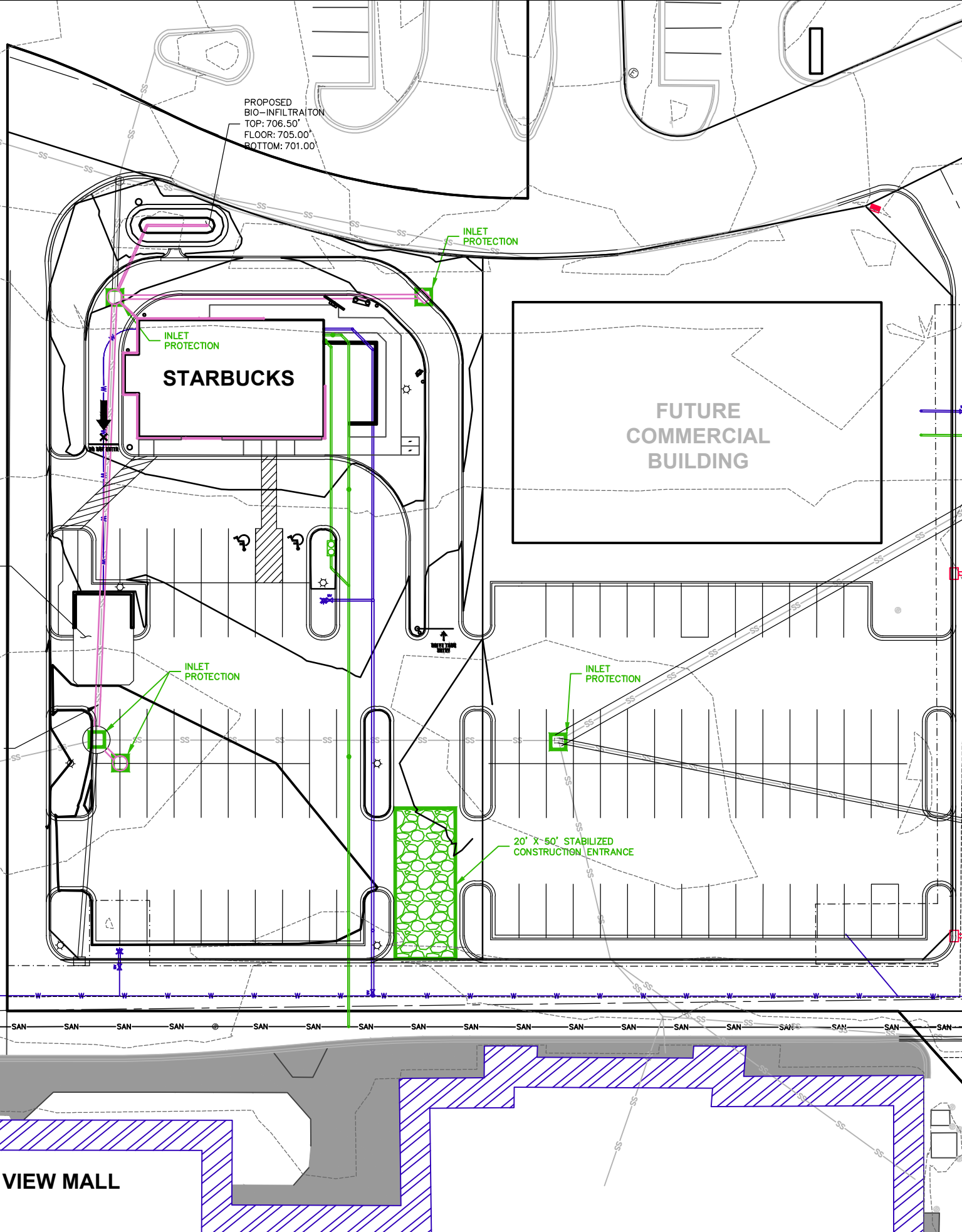
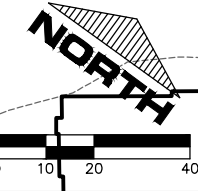
GMX REAL ESTATE GROUP - LA CROSSE
GRADING PLAN
CITY OF LA CROSSE, LA CROSSE COUNTY, WI

SHEET NO:
C103

FILE PATH: L:\CIVIL 3D PROJECTS\23004 GMX REAL ESTATE GROUP - LA CROSSE MALL SITE PLAN AND MAPPING\3 PRODUCTION DRAWINGS\4 STARBUCKS PLANS\4 STARBUCKS EROSION CONTROL PLAN.DWG

VALLEY VIEW MALL

PROPOSED
BIO-INFLTRATION
TOP: 706.50'
FLOOR: 705.00'
BOTTOM: 701.00'



- EROSION CONTROL SEQUENCING**
- SITE PREPARATION**
1. INSTALL EROSION BARRIERS (SILT FENCE) AT THE DOWNSTREAM END OF GRADING ACTIVITIES PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
 2. INSTALL STONE TRACKING PAD IN A LOCATION DEEMED EFFICIENT BY THE CONTRACTOR. IF TRACKING OF SOILS OFF-SITE BECOMES AN ISSUE, THE CONTRACTOR SHALL INSTALL ADDITIONAL STONE AS NEEDED.
 3. IF NECESSARY, STOCKPILE TOPSOIL IN AREAS DEEMED EFFICIENT BY THE CONTRACTOR. STOCKPILES TO BE SURROUNDED WITH SILT FENCE AND TEMPORARY SEEDED.
 4. INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NEEDED DURING THE CONSTRUCTION PROCESS, SUCH AS REPLACE SILT FENCE ON SITE AS GRADING PROGRESSES.
 5. GRADE THE SITE TO THE DESIRED GRADES FOR THE BUILDINGS, DRIVEWAYS AND ROADS.
 6. INSTALL ROAD BASE COURSE, INSTALL CURB AND GUTTER AND PAVE THE ROADS.
 7. START CONSTRUCTION ON THE FIRST BUILDINGS AND STABILIZE THE REMAINDER OF THE SITE.
- FINAL RESTORATION**
1. RESTORE ALL DISTURBED AREAS AS SOON AS PRACTICABLE. ALL AREAS MUST BE TOPSOILED, SEEDED AND MULCHED OR MATTED. EROSION MAT MUST BE USED ON THE STORM WATER FACILITIES SIDE SLOPES AND ANY SLOPES THAT ARE 3:1 OR STEEPER AS SHOWN.
 2. CONTRACTOR SHALL MONITOR SEEDING TO ENSURE THAT GERMINATION OCCURS. ADDITIONAL WATERING OR EROSION CONTROL MAY BE NECESSARY AFTER FINAL SEEDING.

- EROSION CONTROL NOTES:**
- 1) POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
 - 2) KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
 - 3) SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
 - 4) THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
 - 5) THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
 - 6) INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
 - 7) WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
 - 8) REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.

- RESTORATION AND SEEDING**
- RESTORE ALL DISTURBED AREAS WITH 4" OF TOPSOIL AS SOON AS PRACTICABLE. ALL AREAS MUST BE TOPSOILED SEEDED AND MULCHED OR MATTED. TYPE A EROSION MAT MUST BE USED ON THE STORM WATER FACILITY SIDE SLOPES AND ANY 3:1 SLOPES WITH FLOW LENGTHS LESS THAN 60 FEET. TYPE B EROSION MAT MUST BE USED ON 3:1 SLOPES WITH FLOW LENGTHS GREATER THAN 60 FEET. PRIOR TO THE PLACEMENT OF SEED, THE AREAS OF TOPSOIL SHALL BE FERTILIZED AT THE APPLICATION RATE OF 10 POUNDS PER 1000 SQUARE FEET. FERTILIZER SHALL BE INCORPORATED TO A DEPTH OF 2 INCHES.
- 35% KENTUCKY BLUEGRASS
 - 30% CREEPING RED FESCUE
 - 20% KENTUCKY PARK BLUEGRASS
 - 10% PERENNIAL RYE - FIESTA 2
 - 5% OTHER GRASSES
- APPLICATION RATE SHALL BE A MINIMUM OF 5 LBS. PER 1000 SQUARE FEET. THE CONTRACTOR SHALL RAKE, AND PREPARE SEED BED PRIOR TO APPLYING FERTILIZER, SEED AND MULCH, AND THE PREPARED AREA SHALL BE APPROVED BY ENGINEER PRIOR TO COMMENCING.
- THE CONTRACTOR SHALL LANDSCAPE AND RESTORE ALL DISTURBED AREAS TO THE TYPE AND EXTENT AS SHOWN ON THE PLANS. AREAS DISTURBED BY THE CONSTRUCTION OUTSIDE THE PROJECT LIMITS, AS DETERMINED BY THE ENGINEER, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE.

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JOB NO:	23004
DWG NAME:	
DATE:	08-02-2024
DR BY:	SRM
CHK BY:	XXX
APPRV:	XX-XX-XX

GMX REAL ESTATE GROUP - LA CROSSE
EROSION CONTROL PLAN
CITY OF LA CROSSE, LA CROSSE COUNTY, WI

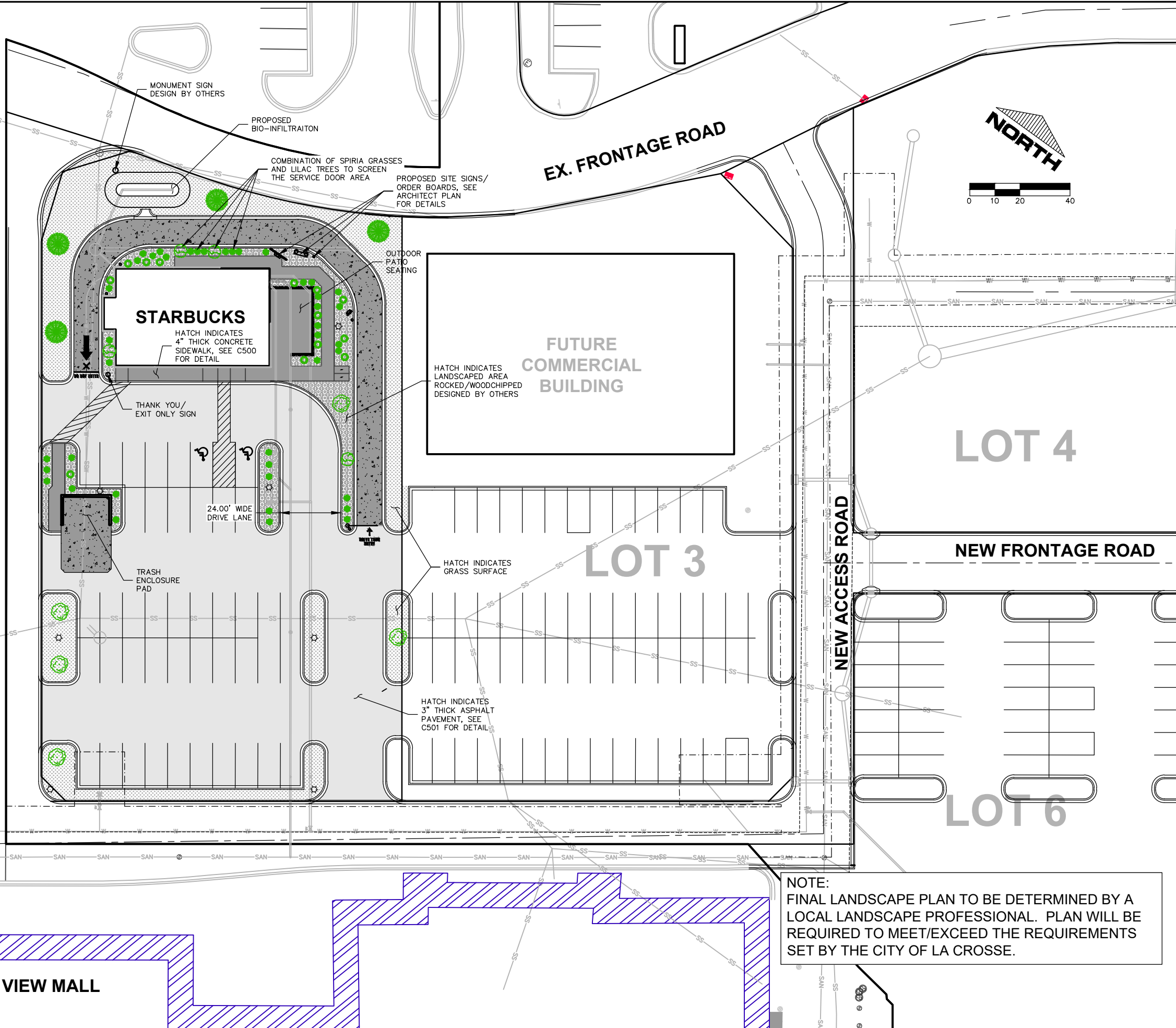
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C104

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LANDSCAPE (NEW TREES AND SHRUBS):

-  BOULEVARD TREES: 2" DIAMETER
KENTUCKY COFFEE, OAK, DED RESISTANT ELM, LINDEN OR RIVER BIRCH
-  EVERGREEN TREES: 5' HEIGHT
-  JUNIPER, ARBORVITAE, JAPANESE RED LEAF
OR CRIMSOM PYGMY BARBERRY: 1' - 3' HIGH
-  POTENTILLA, GOLDFLAME SPIREA OR ORNAMENTAL AND PRAIRIE
GRASSES: 2'-3' HIGH
-  SMALLER TREES FOR AREAS NEAR BUILDINGS AND UTILITIES. TREE
LILAC (SINGLE STEM) CRABAPPLE, IRON WOOD, RED BUD, OR DOGWOOD
2" DIAMETER
-  SERVICE BERRY TREES: 4' - 5' HIGH

ADJUST PLANTINGS BASED ON UTILITY LOCATIONS AND FINAL PLACEMENT OF LIGHTING. ALL TREE AND SHRUB PLANTINGS MUST CONFORM TO THE CITY OF LA CROSSE RECOMMENDATIONS FOR PLANTINGS FOUND ON THE CITY WEBSITE.



NOTE: FINAL LANDSCAPE PLAN TO BE DETERMINED BY A LOCAL LANDSCAPE PROFESSIONAL. PLAN WILL BE REQUIRED TO MEET/EXCEED THE REQUIREMENTS SET BY THE CITY OF LA CROSSE.



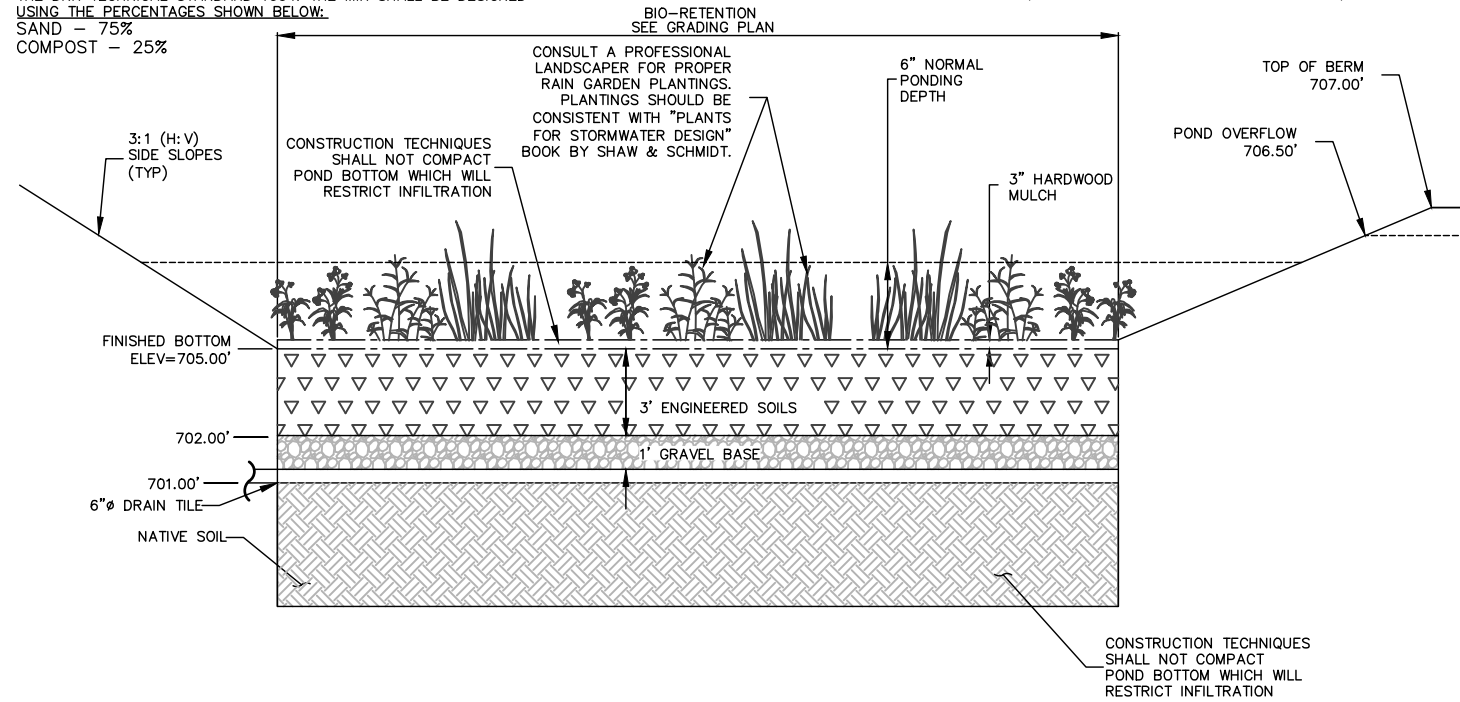
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GMX REAL ESTATE GROUP - LA CROSSE
LANDSCAPE PLAN
CITY OF LA CROSSE, LA CROSSE COUNTY, WI

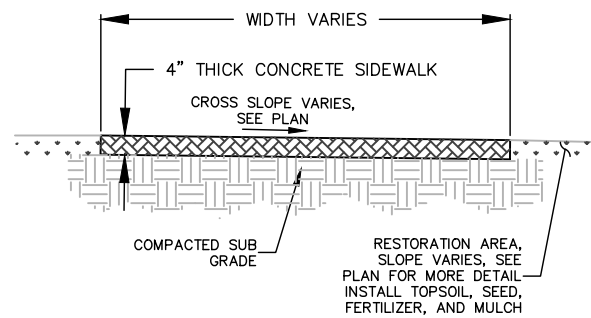
THE ENGINEERED SOIL LAYER SHALL CONSIST OF SAND & COMPOST. THE COMPOST MUST MEET THE WISCONSIN DNR SPECIFICATION S100 FOR COMPOST. THE SAND MUST MEET THE SPECIFICATIONS FOUND IN THE DNR TECHNICAL STANDARD 1004. THE MIX SHALL BE DESIGNED USING THE PERCENTAGES SHOWN BELOW:
 SAND - 75%
 COMPOST - 25%

NOTE: GEOTEXTILE FILTER FABRIC TO BE PLACED BETWEEN ENGINEERED SOILS AND ROCK STORAGE LAYERS (IF THE ROCK STORAGE LAYER IS NEEDED).

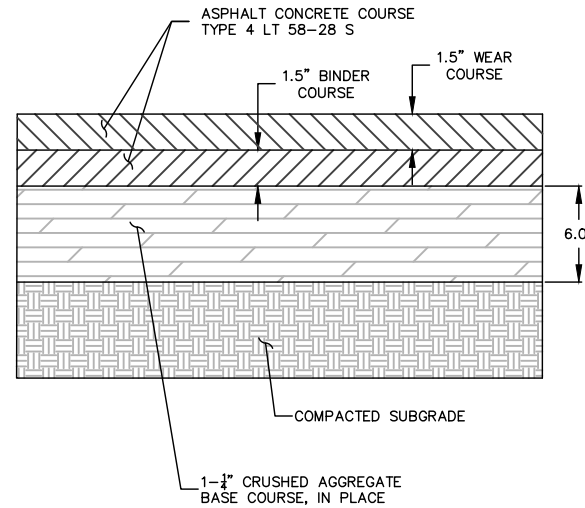


NOTE:
 UNDERDRAIN MAY BE REMOVED
 BASED ON SOILS FOUND AT BOTTOM
 OF POND TEST PIT.

BIO-INFILTRATION POND (N.T.S.)



SITE 50
4" SIDEWALK
 N.T.S.



SITE 7
TYPICAL ASPHALT SECTION
 N.T.S.

EROSION CONTROL TECHNICAL NOTES

1. INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
2. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.
3. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
4. COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARD SEDIMENT BASIN #1064 AND SEDIMENT TRAP # 1063.
5. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE # 1056 REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
6. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
7. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
8. IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE. OCTOBER 15 THROUGH MAY 15 COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
9. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
10. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY CHIPPEWA COUNTY. SEPARATE SWEEP MATERIALS (SOILS AND TRASH AND DISPOSE OF APPROPRIATELY.
11. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
12. COORDINATE WITH CONTRACTOR & THE CITY TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
13. FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I TYPE A EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052. FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE EROSION CONTROL MATTING. SELECTED FROM APPROPRIATE MATRIX IN WDOT'S WDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
14. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.

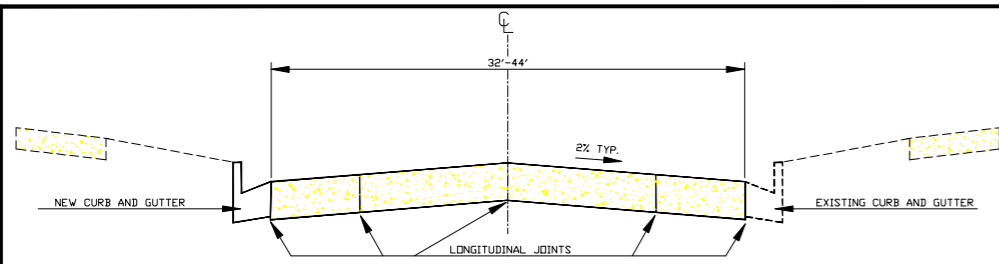
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DR BY: SRM	CHK BY: MAE		

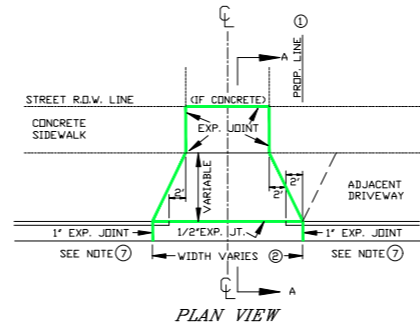
GMX REAL ESTATE GROUP - LA CROSSE
CONSTRUCTION DETAILS
CITY OF LA CROSSE, LA CROSSE COUNTY, WI

SHEET NO:
C500

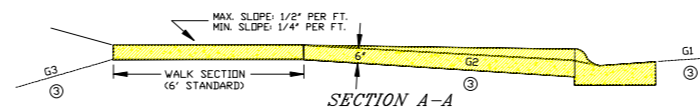
**DRAWINGS
NOT TO SCALE**



TYPICAL CROSS SECTION FOR 36' ROADWAY

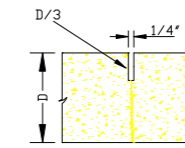


PLAN VIEW

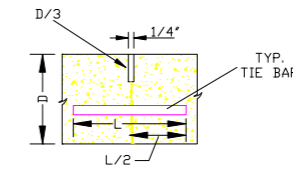


SECTION A-A

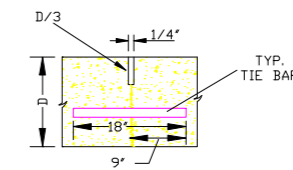
CONTRACTION



SAWED

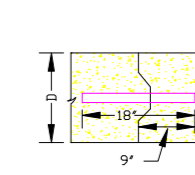


TIED LONGITUDINAL

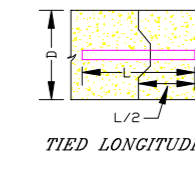


DOWELED TRANSVERSE

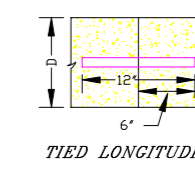
CONSTRUCTION



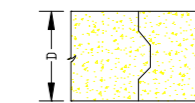
DOWELED TRANSVERSE



TIED LONGITUDINAL

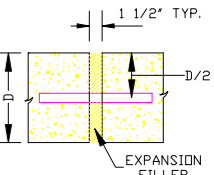


TIED LONGITUDINAL



UNTIED

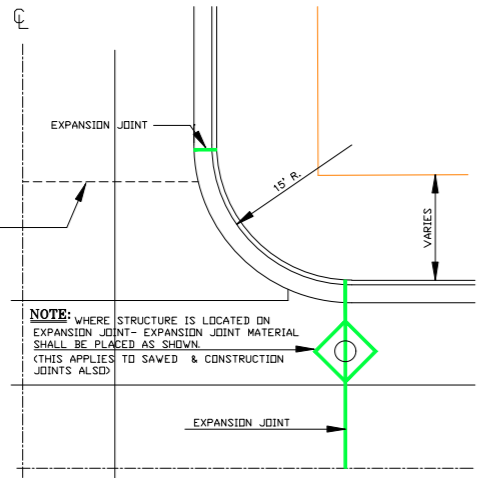
EXPANSION



DOWELED TRANSVERSE

ALL JOINTS TO BE SEALED TO KEEP OUT FOREIGN DEBRIS

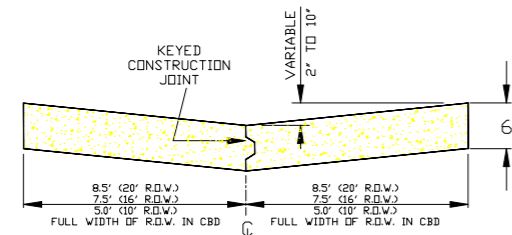
NOTE: IF SIDE STREET IS NOT TO BE PAVED, END PAVEMENT AT STREET LINE.



1/4 TYPICAL INTERSECTION

NOTES-JOINTS

- EXPANSION JOINTS SHALL BE PLACED AT THE END OF RADII AT STREET INTERSECTIONS AND MID-BLOCK BETWEEN INTERSECTIONS. IN NO CASE SHALL THE DISTANCE BETWEEN EXPANSION JOINTS EXCEED 160 FEET.
- THE DISTANCE BETWEEN TRAVERSE JOINTS SHALL NOT BE LESS THAN 10 FEET AND SHALL BE TYPICALLY 20 FEET APART.
- LONGITUDINAL CONSTRUCTION JOINTS BETWEEN CURB AND GUTTER SECTION AND CONC. PAVING SECTION SHALL BE SEALED AS SHOWN ON JOINT DETAILS.

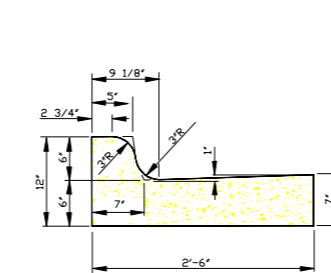


TYPICAL SECTION OF ALLEY PAVEMENT

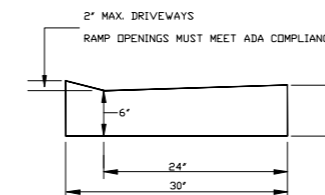
- DRIVE SECTION SHALL NOT OVERLAP PROPERTY LINE EXTENDED, EXCEPT WHERE PERMITTED BY THE ENGINEER, OR WHEN A JOINT DRIVEWAY AGREEMENT IS EXECUTED BY OWNERS OF ADJACENT PROPERTIES.
- MAX. DRIVEWAY WIDTH AT THE CURB AND SIDEWALK IS SET FORTH IN CITY ORDINANCE 503.
- THE BREAKOVER ANGLE (CAUSE OF CARS BOTTOMING) BECOMES CRITICAL WHEN THE ALGEBRAIC DIFFERENCE OF GRADES (G1, G2, & G3) EXCEEDS 11%.
- A REINFORCED DRIVE SECTION IS REQUIRED FOR CURB & GUTTER IN AREAS ZONED INDUSTRIAL OR COMMERCIAL.
- BACK OF CURB TO FRONT OF CONC. SIDEWALK MUST BE CONCRETE, BRICK OR ASPHALTIC BITUMINIOUS.
- MECHANICAL COMPACTION OF SUBSOIL IN LAYERS LESS THAN 12" TO ACHIEVE MINIMUM COMPACTION OF 95% OF MAXIMUM DENSITY FROM MODIFIED PROCTOR IS REQUIRED. (INCLUDING STREET SIDE AFTER FORMS ARE REMOVED)
- EXPANSION JOINT IS REQUIRED AT BOTH ENDS OF DRIVEWAY WHEN ONLY DRIVEWAY IS INSTALLED OR REPLACED. WHEN ENTIRE BLOCK OF CURB & GUTTER IS INSTALLED THE EXPANSION JOINT AT DRIVEWAY ENDS MAY BE OMITTED.

NOTE: TURNING OF 2" DIAMETER DRIVEWAY RETURNS IN LIEU OF DIMINISHING HEAD AS SHOWN IS PERMITTED IF DESIRED BY PROPERTY OWNER. INSTALLATION OF A DRIVEWAY BY REMOVING EXISTING CURB HEAD ONLY IS NOT ALLOWED. ENTIRE EXISTING C&G MUST BE REMOVED FOR NEW DRIVEWAYS. REMOVAL OF A MINIMUM 12" WIDTH OF BITUMINIOUS TO INSTALL FRONT FORMS IS REQUIRED.

STANDARD DRIVEWAY DETAIL

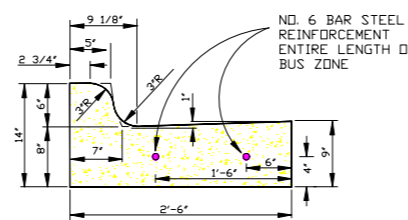


STANDARD CURB & GUTTER SECTION

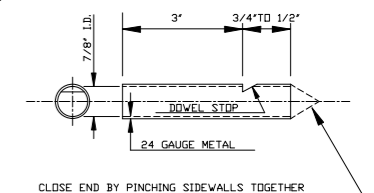


MOUNTABLE CURB SECTION

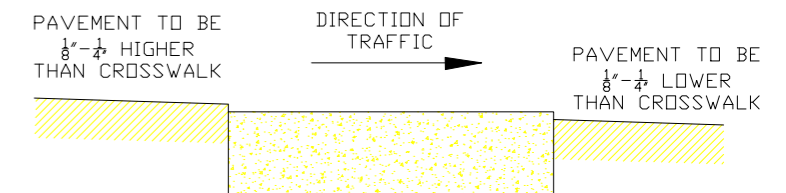
NOTE: WITH REFERENCE TO SAWING OF CONTRACTION JOINTS ON SLIP FORM CURB & GUTTER, & CURB, PAGE 9.3, STANDARD SPEC'S THE SAW CUT SHALL BE A MINIMUM 1/8" WIDE X 1" DEEP.



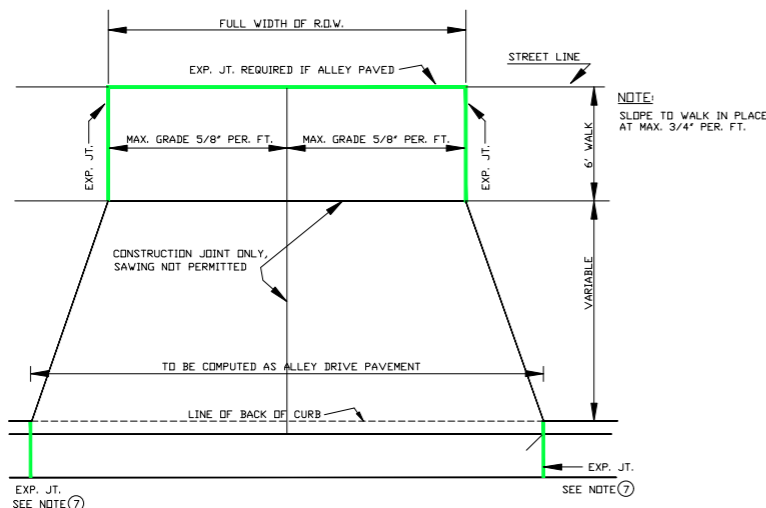
REINFORCED CURB & GUTTER BUS STOP LOCATIONS



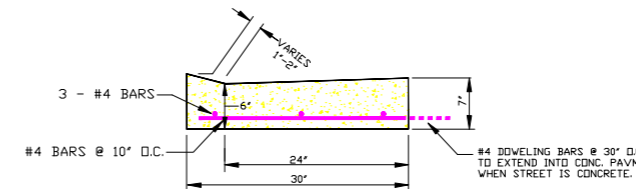
DOVEL SOCKET DETAIL



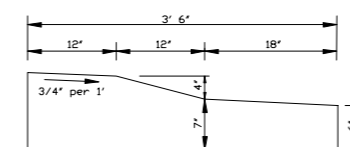
CONCRETE CROSSWALK DETAIL



STANDARD ALLEY DRIVEWAY 7" THICK

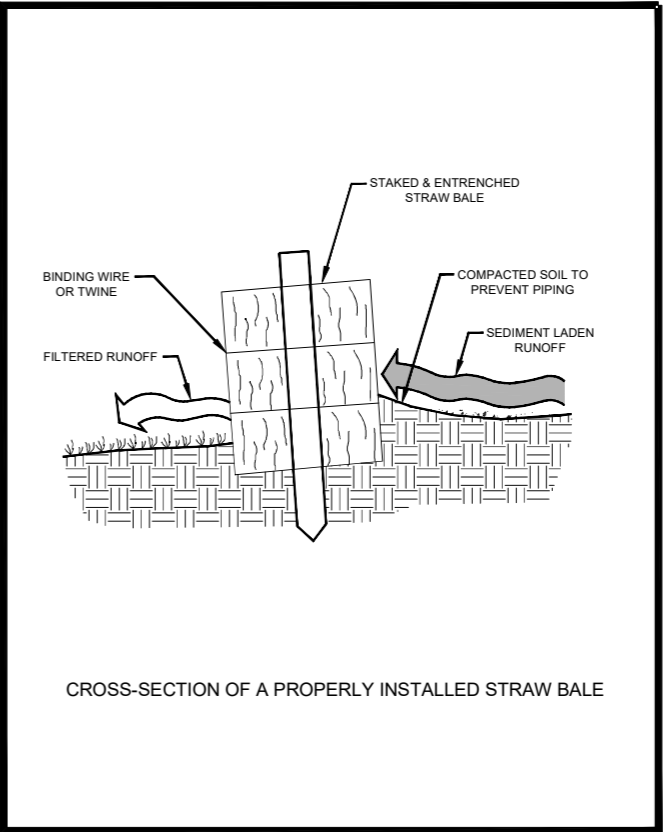
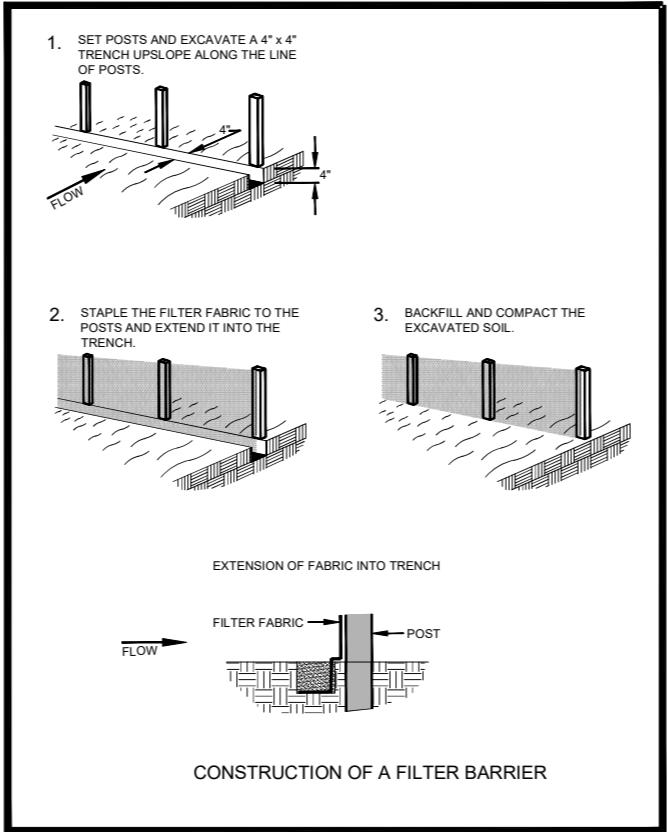
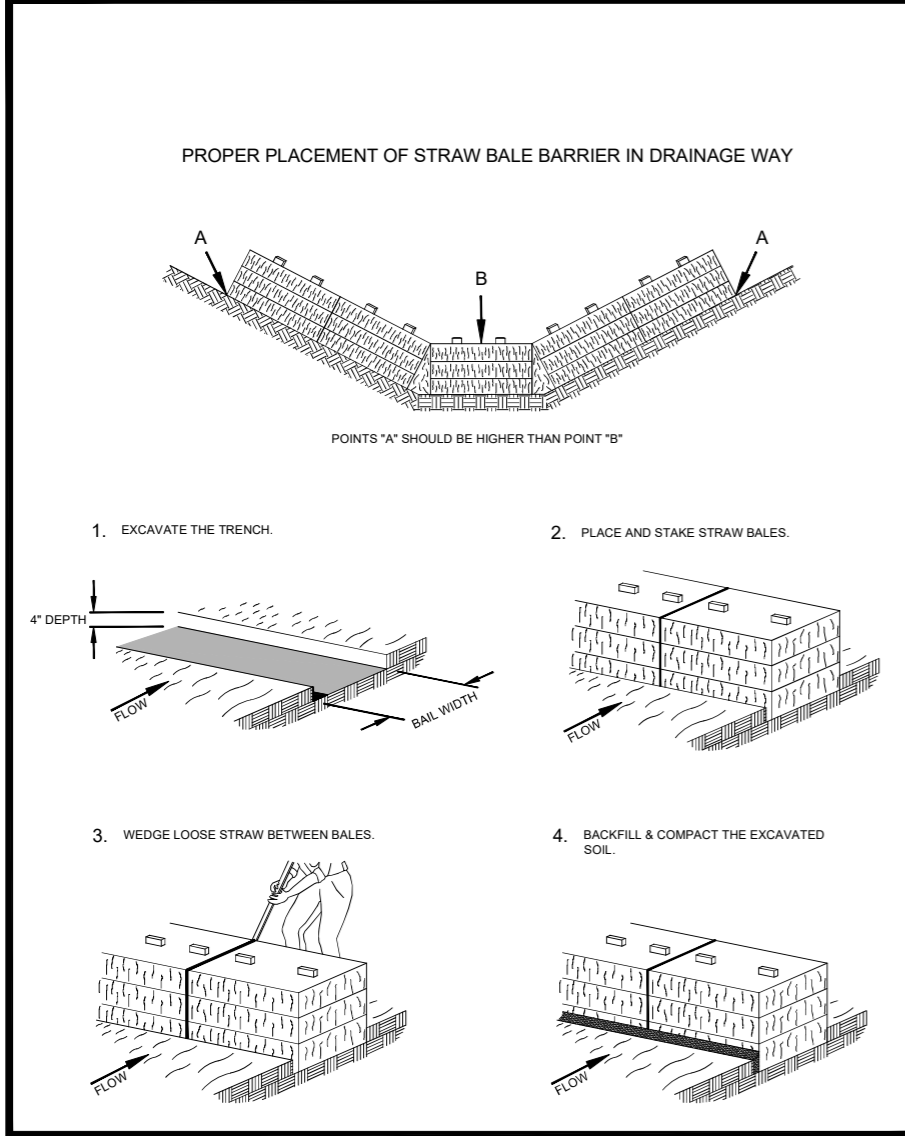
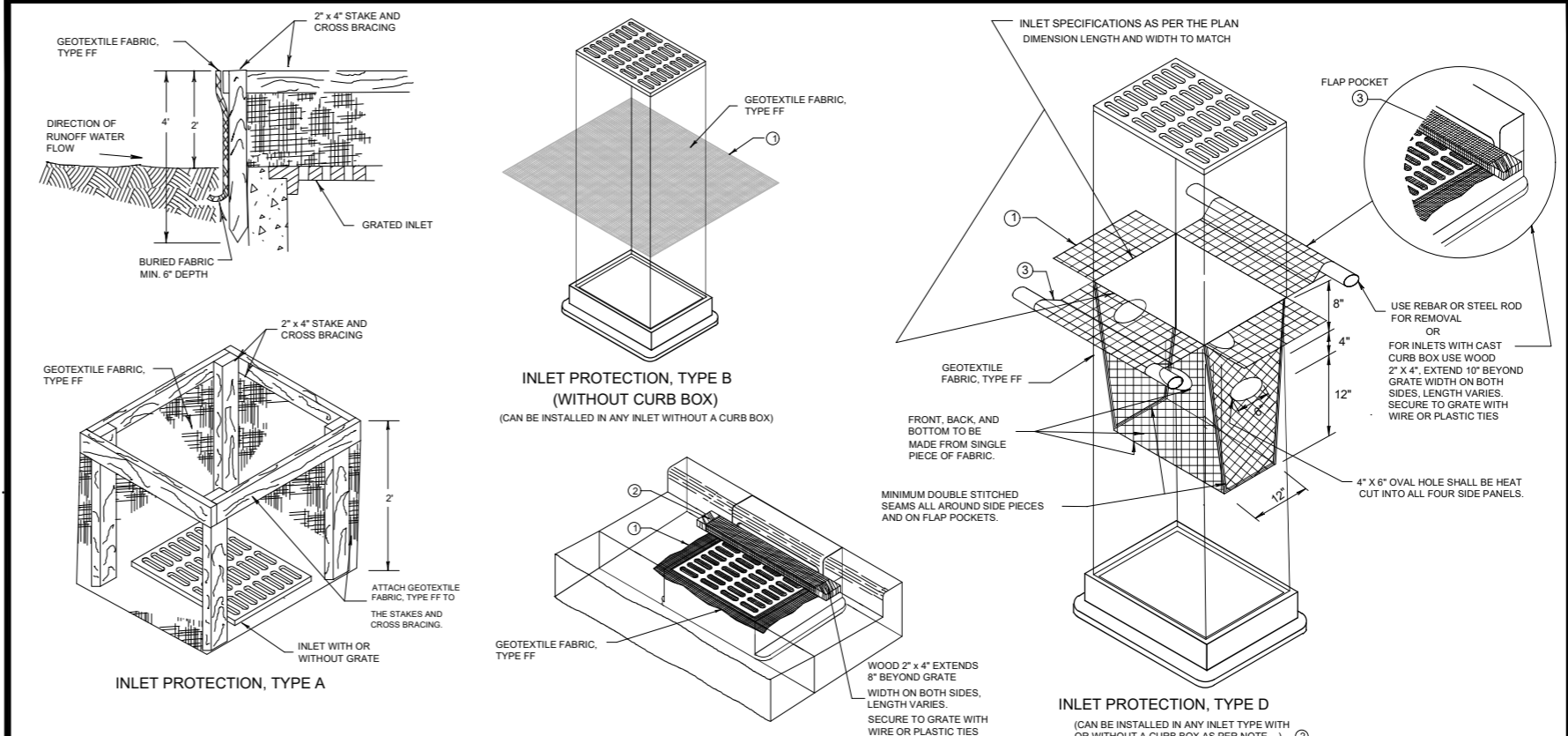
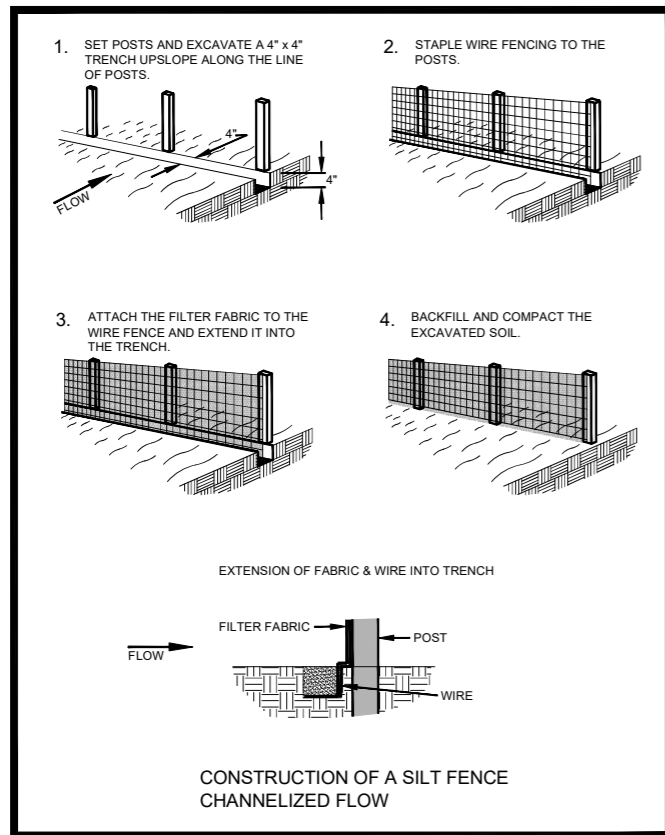


REINFORCED DRIVEWAY



TRAFFIC CIRCLE CURB SECTION

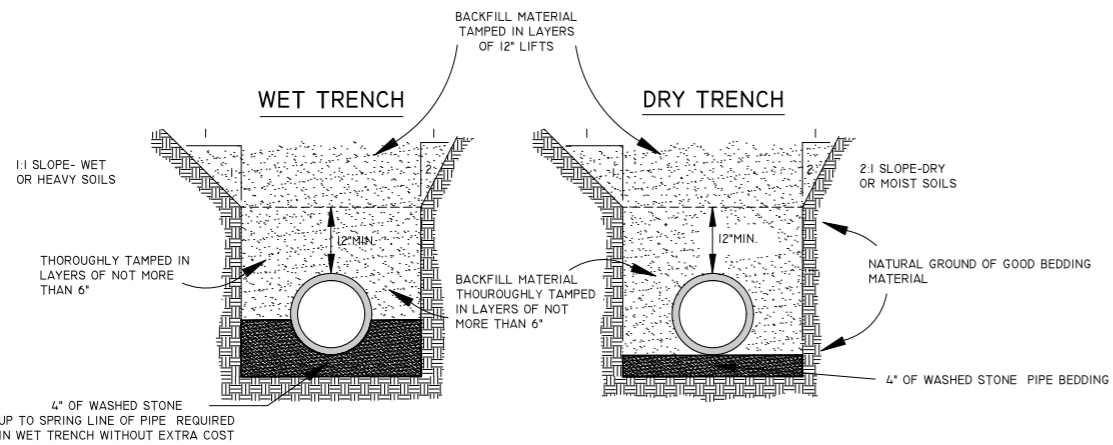
PROJECT No.	CONCRETE-PAVEMENT DETAILS		
LOCATION			
RESOLUTION	DATE		
ENGINEERING DEPT. City of LaCrosse, Wis.			
FIELD NO.	SURVEYED	BY	DATE
NO.	DRAWN	PRELIMINARY	
	CHECKED	FINAL	
	APPROVED		
PAGE	REVISIONS		01/21
SCALE: NONE		TOTAL SHEETS	
SHEET NO.			



EDF #	DWG NAME: EROSION-CONTROL.DWG		
PROJECT No.	EROSION CONTROL DETAILS		
LOCATION	D-1-2		
RESOLUTION	DATE		
ENGINEERING DEPT. City of La Crosse, Wis.			
FIELD BOOK	SURVEYED	BY	DATE
NUMBER	DRAWN PRELIMINARY	CHECKED	2/2009
PAGE	APPROVED	REVISIONS	
SHEET NO.	TOTAL SHEETS		

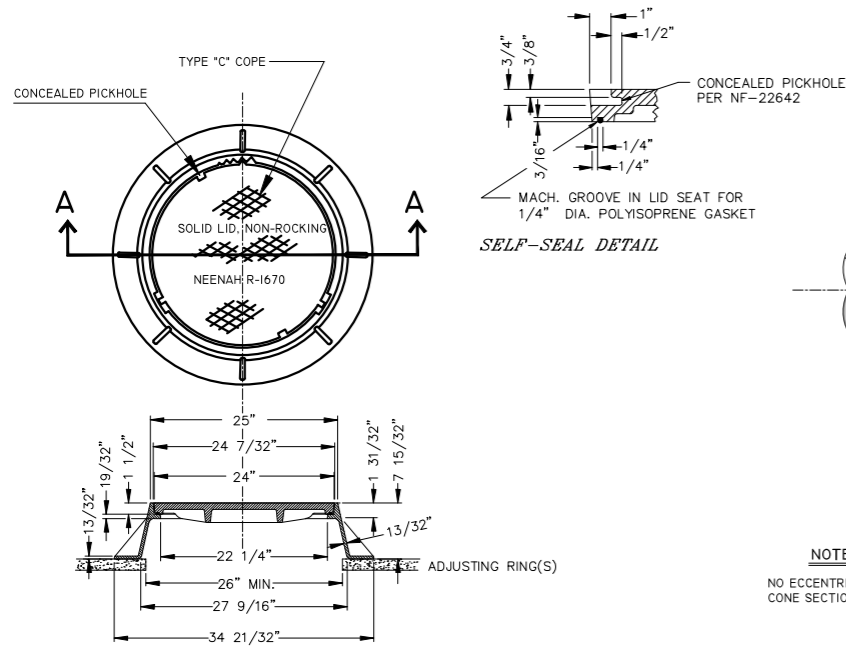
DRAWING
NOT TO SCALE

SEWER PIPE JOINT MATERIALS
CONCRETE PIPE-RUBBER GASKET (ASTM C-443)
PVC PIPE- ELASTOMETRIC GASKET (ASTM D-3212 & F-477)



DETAILS OF SEWER TRENCHES

A
D-2



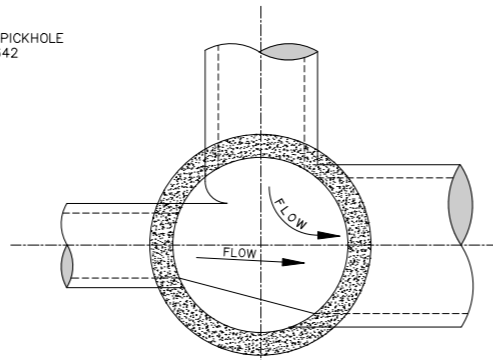
DETAIL OF MANHOLE FRAME & COVER

(MINIMUM WEIGHT 324 LBS. TOTAL)
NEENAH R-1670 OR EQUAL

B
D-2

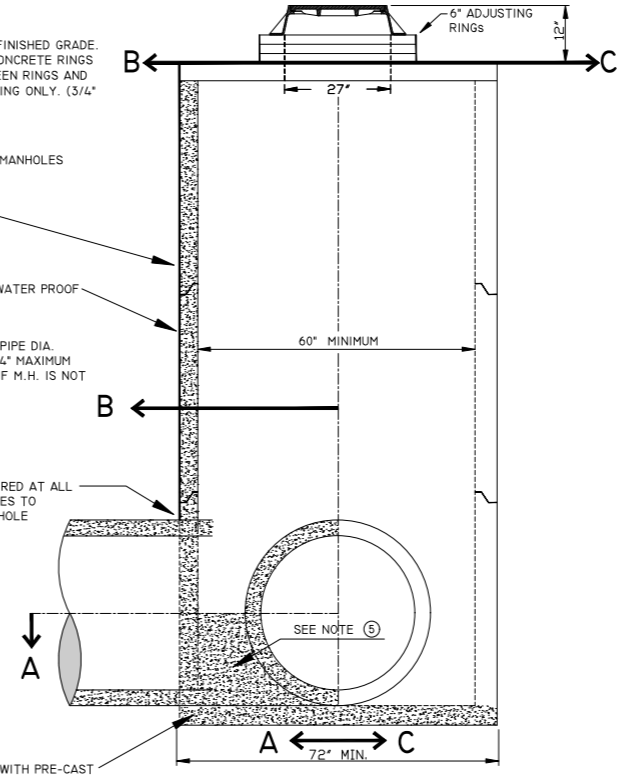
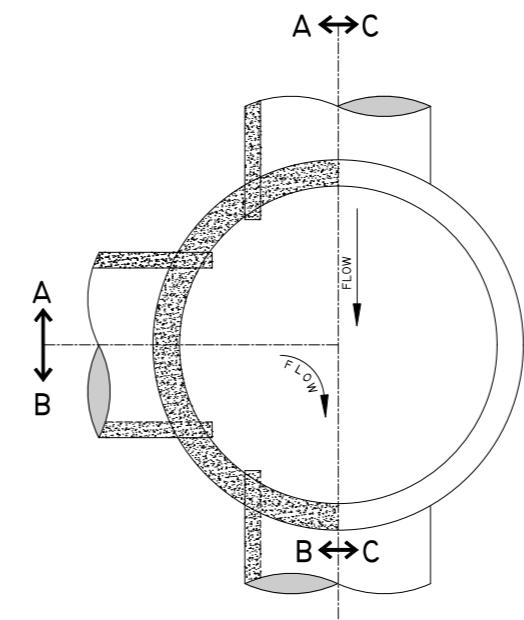
NOTE ⑫
OPENING FOR FRAME & COVER SHALL BE CENTERED ON MANHOLES WITH FLAT TOPS.

NOTE ⑬
THE CONNECTION OF ALL PVC STORM WATER PIPE, SIZE 6" TO 30", TO PRECAST MANHOLES OR OTHER STRUCTURES SHALL EMPLOY A WATERTIGHT, FLEXIBLE PIPE-TO-MANHOLE CONNECTOR.
THE CONNECTOR SHALL CONSIST OF A SINGLE RUBBER GASKET, SHALL BE CONSTRUCTED SOLELY OF SYNTHETIC OR NATURAL RUBBER, SHALL MEET/EXCEED THE REQUIREMENTS OF ASTM C 923, AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1600 PSI.
THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE, WATERTIGHT SEAL OF THE PIPE TO THE STRUCTURE

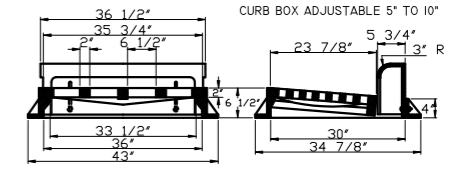


NOTE ⑥
NO ECCENTRIC MANHOLE CONE SECTIONS PERMITTED

C
D-2 **DETAILS OF STANDARD MANHOLE FOR 30" PIPE OR SMALLER**

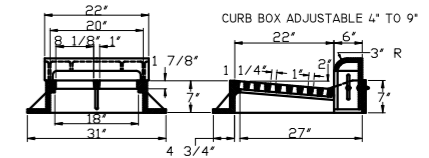


D
D-2 **DETAILS OF STANDARD MANHOLE FOR 36" PIPE OR LARGER**



DETAILS OF TYPE "A" CATCH BASIN CASTING
NEENAH R-3246-A OR EQUAL
MINIMUM WEIGHT 649 LBS. TOTAL

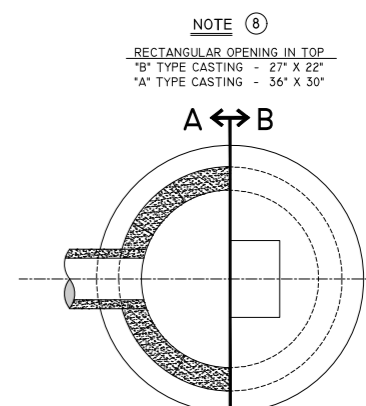
F
D-2



DETAILS OF TYPE "B" CATCH BASIN CASTING
NEENAH R-3234-BI OR EQUAL
MINIMUM WEIGHT 400 LBS. TOTAL

NOTE: * DUMP NO WASTE DRAINS TO RIVER*

SHALL BE MOLDED IN ALL CASTINGS FACE



NOTE ⑧
RECTANGULAR OPENING IN TOP
"B" TYPE CASTING - 27" X 22"
"A" TYPE CASTING - 36" X 30"

NOTE ⑨
TOP OF CATCH BASIN TO BE 12" BELOW CATCH BASIN FLOWLINE GRADE ADJUSTMENT TO BE MADE AS IN NOTE ①

E
D-2 **DETAIL OF TYPE "A" OR "B" CATCH BASIN**

PROJECT No.	STORM SEWER DETAILS		
LOCATION	D-2		
RESOLUTION	DATE		
ENGINEERING DEPT. City of LaCrosse, Wis.			
FIELD NO.	SURVEYED	BY	DATE
NO.	DRAWN	DESIGNED	
	CHECKED	INCH.	
	APPROVED		
DATE	REVISED	M.D.F.	J.M.C.
		3/03	6/2015
		9/03	8/2019
		4/06	8/2019
		12/10	11/2023
		4/13	
SCALE: NONE	TOTAL SHEETS		
SHEET NO.			

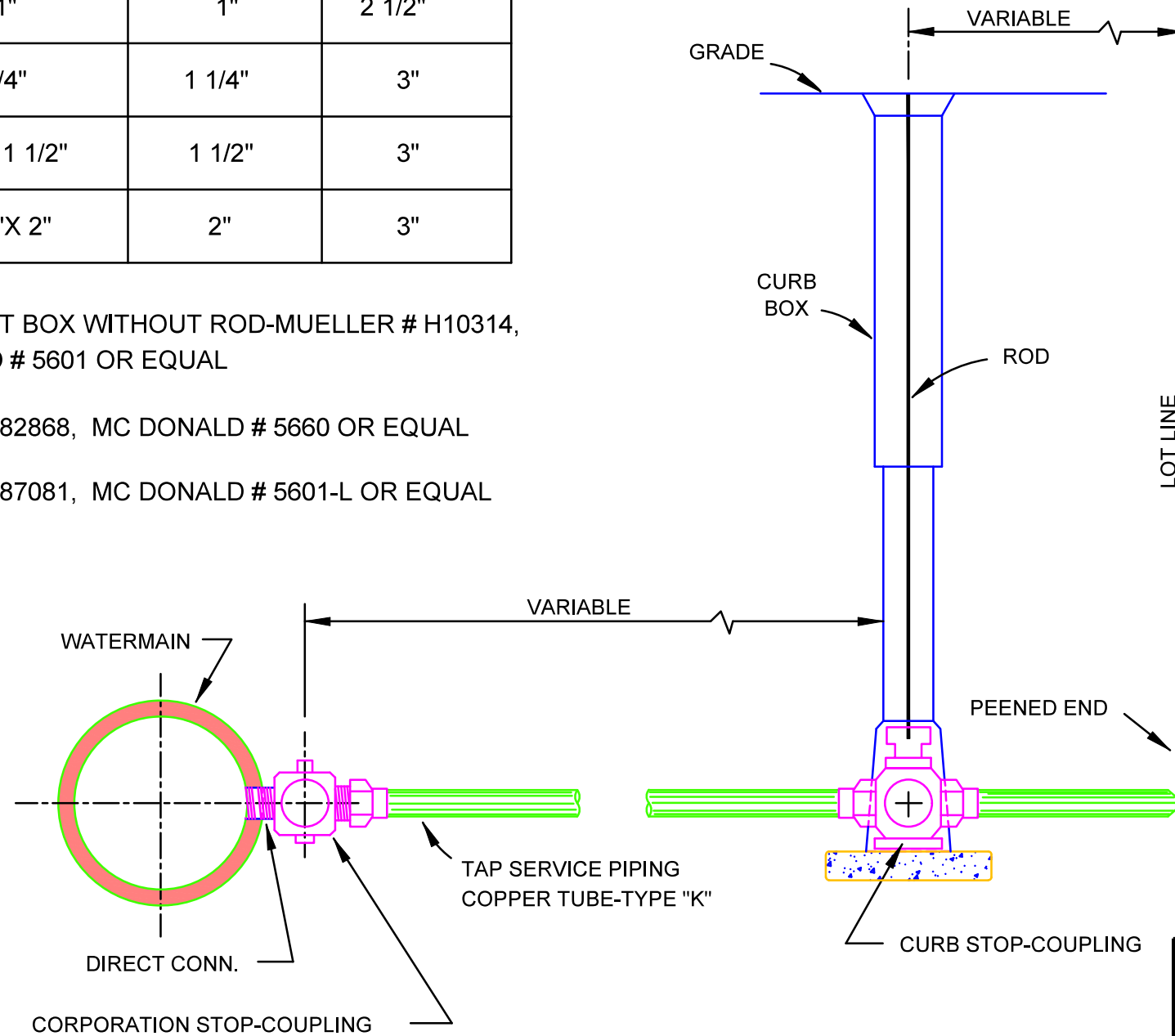
DETAIL OF SERVICE SHUT-OFF

SERVICE PIPE	CORP. STOP	CURB STOP	SERVICE BOX
1"	1"	1"	2 1/2"
1 1/4"	1 1/4"	1 1/4"	3"
1 1/2"	1 1/4"X 1 1/2"	1 1/2"	3"
2"	1 1/2"X 2"	2"	3"

CURB BOX : SEVEN FOOT BOX WITHOUT ROD-MUELLER # H10314,
MC DONALD # 5601 OR EQUAL

54" or 57" ROD : MUELLER # 82868, MC DONALD # 5660 OR EQUAL

LID : MUELLER # 87081, MC DONALD # 5601-L OR EQUAL



NOTE:

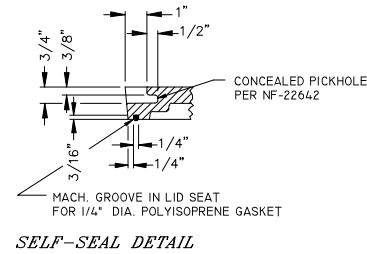
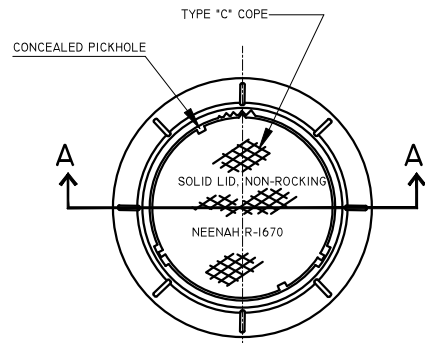
SERVICES SMALLER THAN 1" ARE TO BE TAPPED
45° TO VERTICAL ON WATERMAIN

PROJECT No.		<i>WATERMAIN DETAILS</i>	
LOCATION			
RESOLUTION	DATE		
ENGINEERING DEPT.			
City of La Crosse, WI.			
FIELD BOOK	SURVEYED	BY	DATE
NUMBER	DRAWN	PRELIMINARY	
	CHECKED	FINAL	
	APPROVED		
PAGE	REVISIONS		01/2021
SHEET NO. D-3		TOTAL SHEETS	

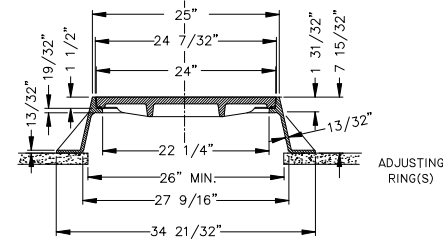
DRAWING
NOT TO SCALE

SEWER PIPE JOINT MATERIALS

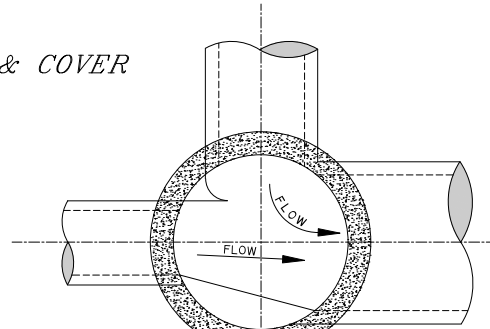
CONCRETE PIPE- RUBBER GASKET (ASTM C-443)
PVC PIPE- ELASTOMETRIC GASKET (ASTM D-3212 & F-477)



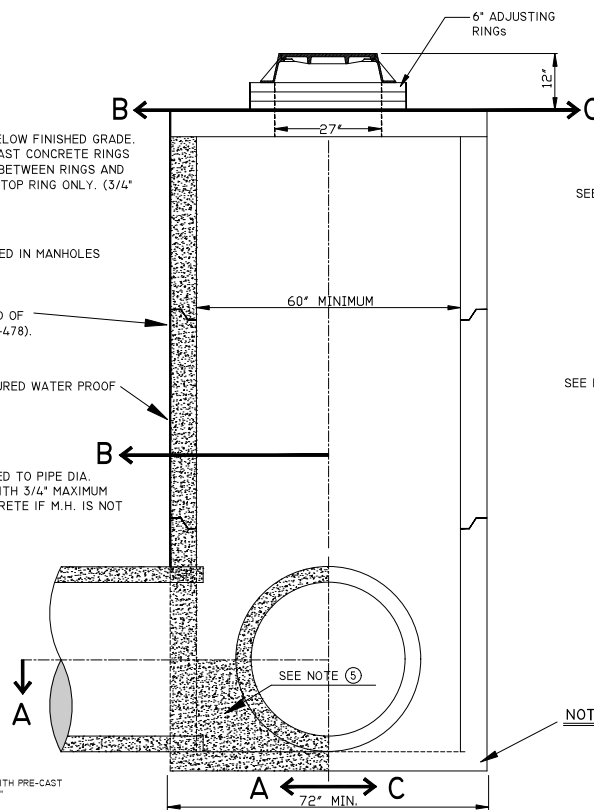
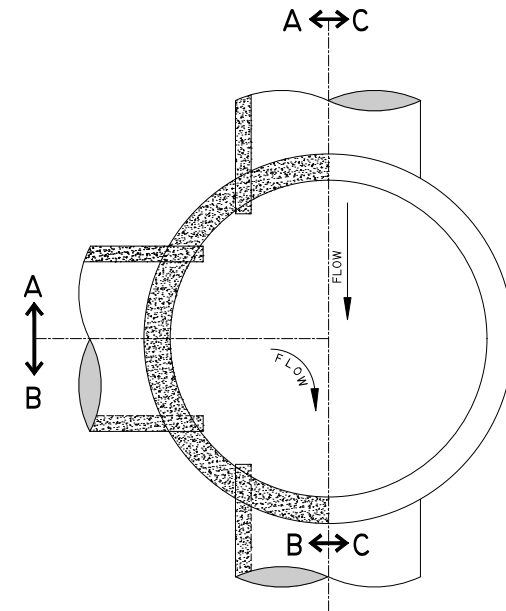
NOTE
OPENING FOR FRAME & COVER SHALL BE CENTERED ON MANHOLES WITH FLAT TOPS.



A - A
DETAIL OF MANHOLE FRAME & COVER
(MINIMUM WEIGHT 324 LBS. TOTAL)
NEENAH R-1670 OR EQUAL



B
D-6



- NOTE 1**
TOP OF MANHOLE TO BE 12" BELOW FINISHED GRADE. ADJUSTMENT TO BE OF PRE-CAST CONCRETE RINGS WITH BUTYL GASKETS (ROPE) BETWEEN RINGS AND MORTAR BETWEEN CASTING & TOP RING ONLY. (3/4" MORTAR MAX.)
- NOTE 2**
NO STEPS ARE TO BE INSTALLED IN MANHOLES
- NOTE 3**
MANHOLE TO BE CONSTRUCTED OF PRE-CAST CONCRETE (ASTM C-478).
- NOTE 4**
LIFT HOLES TO BE MANUFACTURED WATER PROOF
- NOTE 5**
INVERT TO BE FACTORY MOLDED TO PIPE DIA. OR FILLED TO DIRECT FLOW WITH 3/4" MAXIMUM AGGREGATE, 3500 P.S.I. CONCRETE IF M.H. IS NOT REPLACED

NOTE 6
NO ECCENTRIC MANHOLE CONE SECTIONS PERMITTED

NOTE 12
THE CONNECTION OF ALL PVC SANITARY SEWER PIPE, SIZE 6" TO 30", TO PRECAST MANHOLES OR OTHER STRUCTURES SHALL EMPLOY A WATERTIGHT, FLEXIBLE PIPE-TO-MANHOLE CONNECTOR

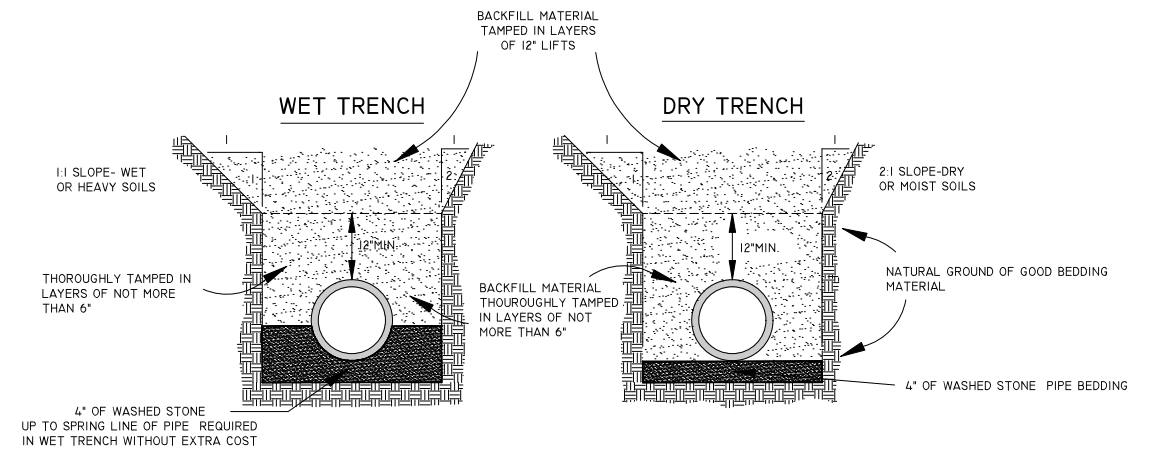
THE CONNECTOR SHALL CONSIST OF A SINGLE RUBBER GASKET, SHALL BE CONSTRUCTED SOLELY OF SYNTHETIC OR NATURAL RUBBER, SHALL MEET/EXCEED THE REQUIREMENTS OF ASTM C 923, AND SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1600 PSI

THE CONNECTOR SHALL BE THE SOLE ELEMENT RELIED ON TO ASSURE A FLEXIBLE, WATERTIGHT SEAL OF THE PIPE TO THE STRUCTURE

NOTE 7
ALL STRUCTURES TO BE MADE WITH PRE-CAST INTEGRAL FOOTING BASE. MIN. 6"

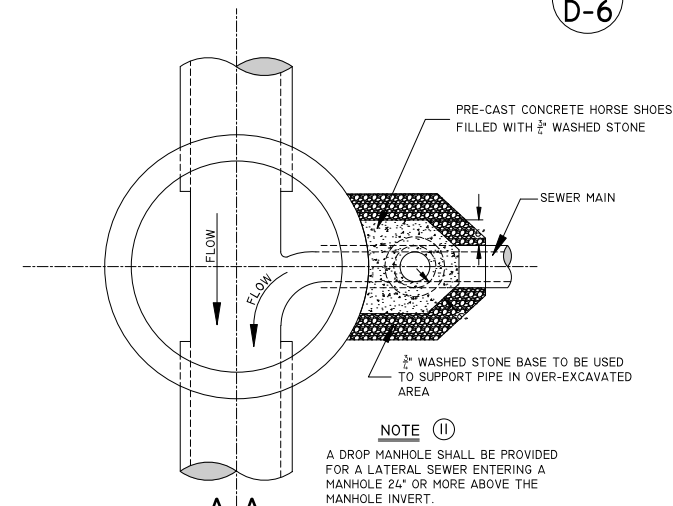
C
D-6 **DETAILS OF STANDARD MANHOLE FOR 30" PIPE OR SMALLER**

D
D-6 **DETAILS OF STANDARD MANHOLE FOR 36" PIPE OR LARGER**

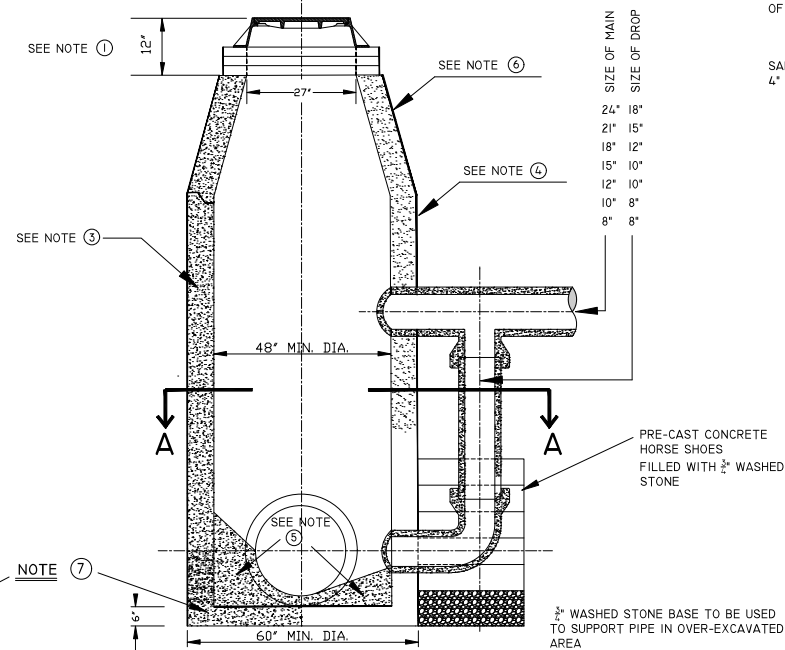


DETAILS OF SEWER TRENCHES

A
D-6

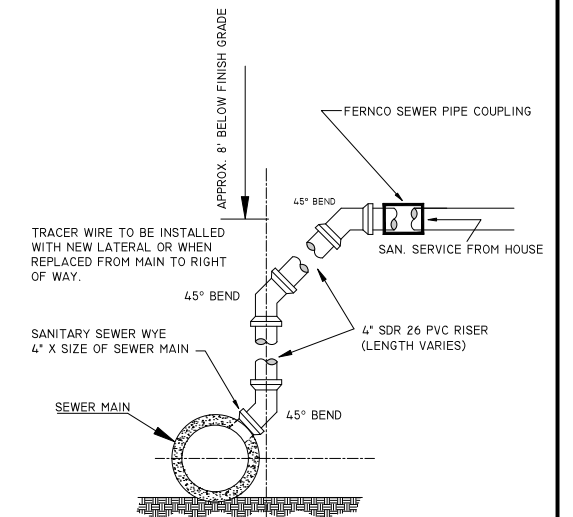


NOTE 11
A DROP MANHOLE SHALL BE PROVIDED FOR A LATERAL SEWER ENTERING A MANHOLE 24" OR MORE ABOVE THE MANHOLE INVERT.



NOTE 7

E
D-6 **DETAILS OF DROP MANHOLE FOR 30" PIPE OR SMALLER**



DETAILS OF RISER FOR HOUSE CONNECTION

F
D-6

PROJECT No.		SANITARY SEWER DETAILS	
LOCATION		D-6	
RESOLUTION	DATE		
ENGINEERING DEPT. City of LaCrosse, Wis.			
FIELD	SURVEYER	BY	DATE
BOOK	DRAWN	PREPARED	
NUMBER	CHECKED	FINAL	
PAGE	APPROVED		
	REVISIONS		
		M.D.F.	3/03 J.M.C. 6/2015
		J.M.C.	9/03 B.F.M. 2/2019
		M.D.F.	4/06 J.M.C. 8/2019
		M.D.F.	12/10 B.F.M. 11/2019
		M.D.F.	4/13 J.M.C. 11/2023
SCALE: NONE	TOTAL SHEETS		
SHEET NO.			