



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

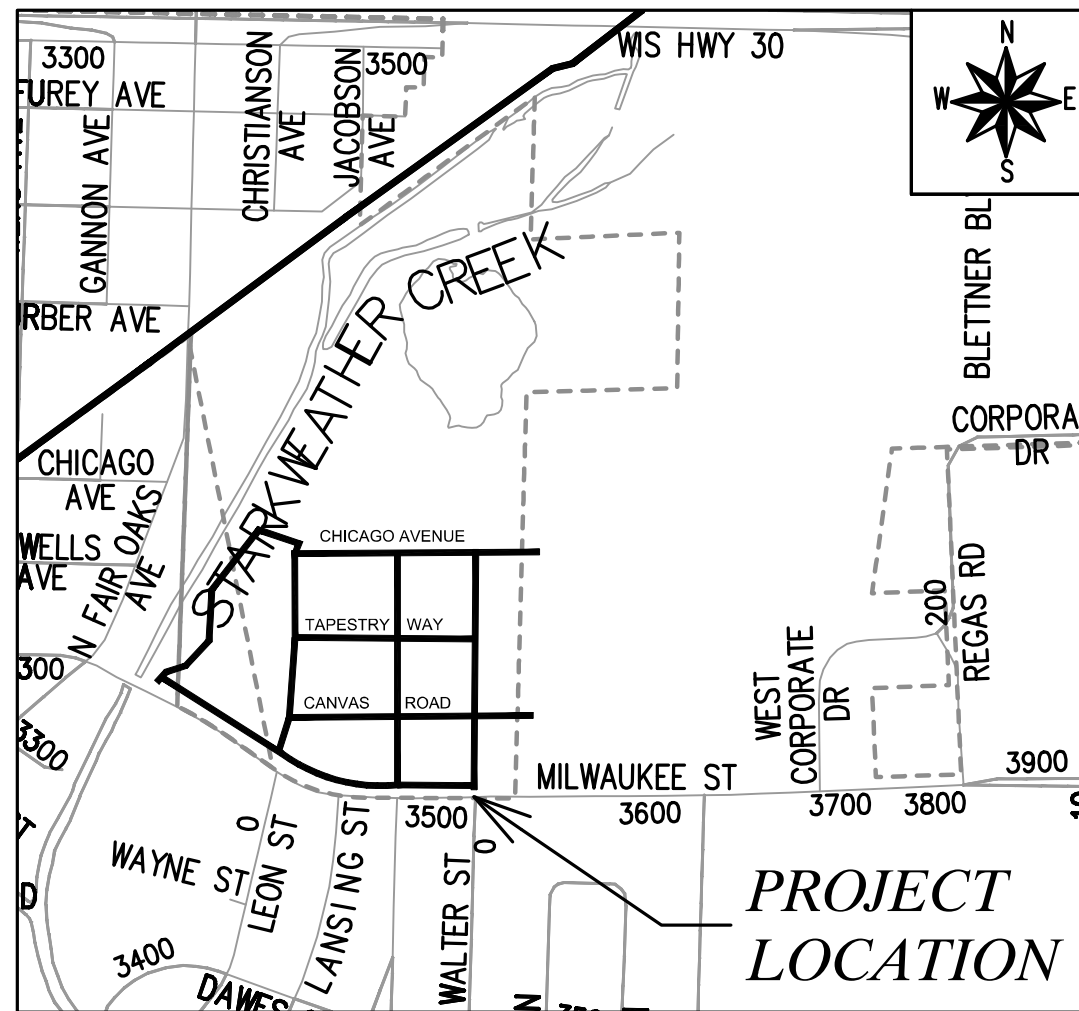
PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

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SHEET NO. C2.0	DEMOLITION PLAN
SHEET NO. C3.0	GRADING AND EROSION CONTROL - OVERALL
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SHEET NO. S1-S11	STORMTECH CHAMBER SYSTEM (NFC - PROOF OF CONCEPT ONLY)
SHEET NO. MN1	MAINTENANCE PLAN

STARKWEATHER PLAT PHASE 1 STORMWATER MANAGEMENT

CITY PROJECT NO. 15430
CONTRACT NO. 9571



PUBLIC IMPROVEMENT PROJECT
APPROVED

JULY 18, 2025

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

05/04/2026

City Engineer

Date

GRADING AND EROSION CONTROL
PLAN DESIGNED BY:



05/04/2026

STORMWATER MANAGEMENT PLAN,
BIORETENTION, AND INFILTRATION
BASINS DESIGNED BY:



Thomas Price

Thomas Price (May 4, 2026 14:50:51 CDT)

05/04/2026

PLOT SCALE: 1"=0' = 1"=0' XREF

PLOT NAME: ----

REV. DATE: 4/30/2026 3:13 PM

ORIGINATOR: CITY_OF_MADISON

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	ALICIA COOLEY 309-712-5576 ALICIA.COOLEY@ADSPIPE.COM
ADS SALES REP:	BRENT YEAGER 608-212-7742 BRENT.YEAGER@ADSPIPE.COM
PROJECT NO:	S360413



STARKWEATHER CREEK / VOIT FARMS REGIONAL DISTRICT STORMWATER

MADISON, WI

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-7200.
- 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 CLASSIFICATION 60x101.
- 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, TESTED 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 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 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.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

- STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR 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 - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL 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 MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIERED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-7200 CONSTRUCTION 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 CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

CONCEPTUAL LAYOUT - BASIN 12 / OUTLOT 5

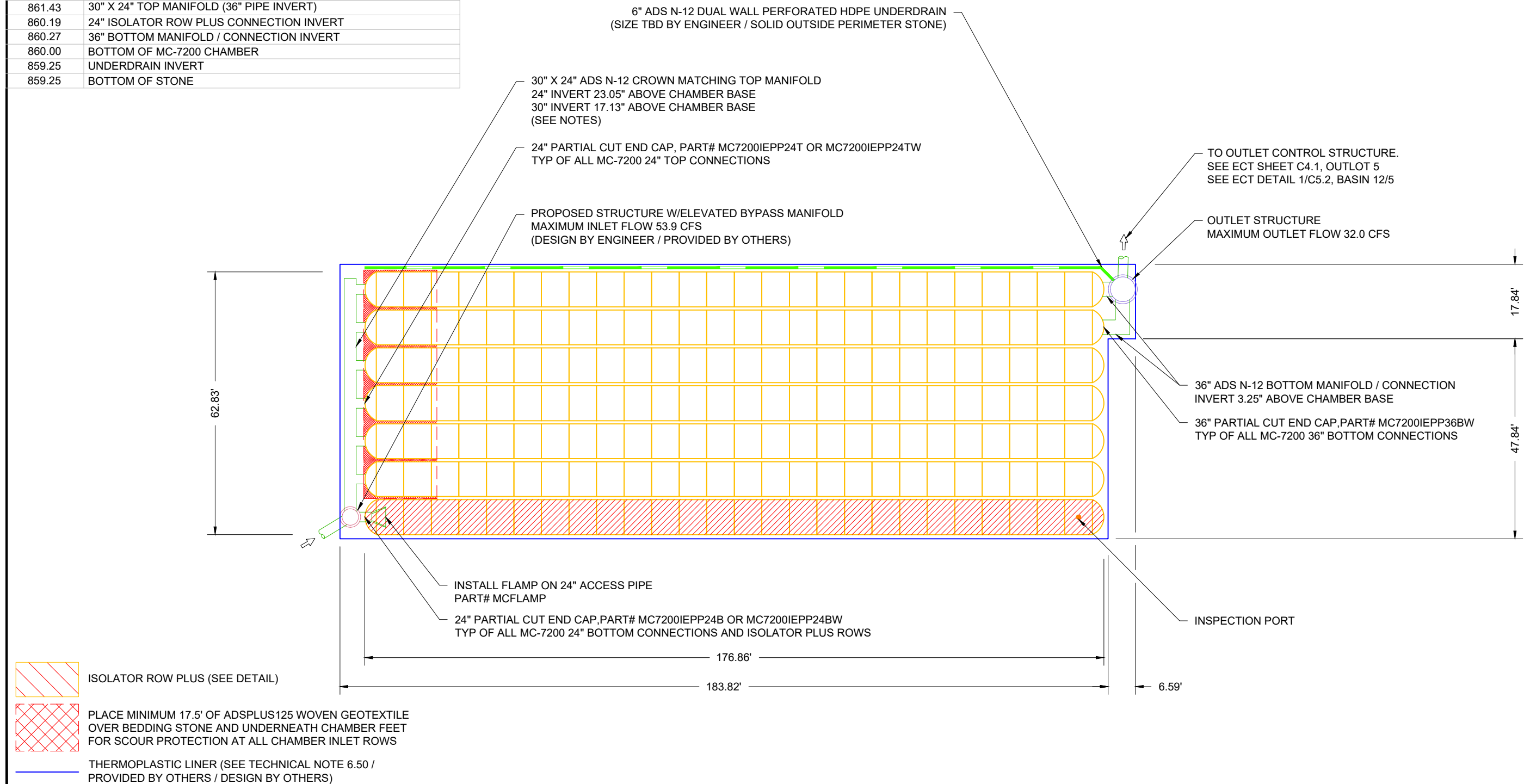
182	STORMTECH MC-7200 CHAMBERS
14	STORMTECH MC-7200 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
52,456	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
12191	SYSTEM AREA (ft ²)
512	SYSTEM PERIMETER (ft)

CONCEPTUAL ELEVATIONS - BASIN 12

872.00	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
867.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
867.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
867.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
867.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
866.00	TOP OF STONE
865.00	TOP OF MC-7200 CHAMBER
861.92	30" X 24" TOP MANIFOLD (24" PIPE INVERT)
861.43	30" X 24" TOP MANIFOLD (36" PIPE INVERT)
860.19	24" ISOLATOR ROW PLUS CONNECTION INVERT
860.27	36" BOTTOM MANIFOLD / CONNECTION INVERT
860.00	BOTTOM OF MC-7200 CHAMBER
859.25	UNDERDRAIN INVERT
859.25	BOTTOM OF STONE

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.



STARKWEATHER CREEK / VOIT FARMS
REGIONAL DISTRICT STORMWATER
MADISON, WI

08/20/24	AVM	JPR	REVISED PER MARK UP
06/22/23	CJM	CJM	REDRAW SYSTEM 22 W/MC-7200 CHAMBERS
	CJM	DRWN	CHKD
		DATE	DESCRIPTION

StormTech®
Chamber System
888-892-2694 | WWW.STORMTECH.COM

4640 TRUEJMAN BLVD
HILLIARD, OH 43026

50'
25'
0

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

CONCEPTUAL LAYOUT - BASIN 30 / OUTLOT 1

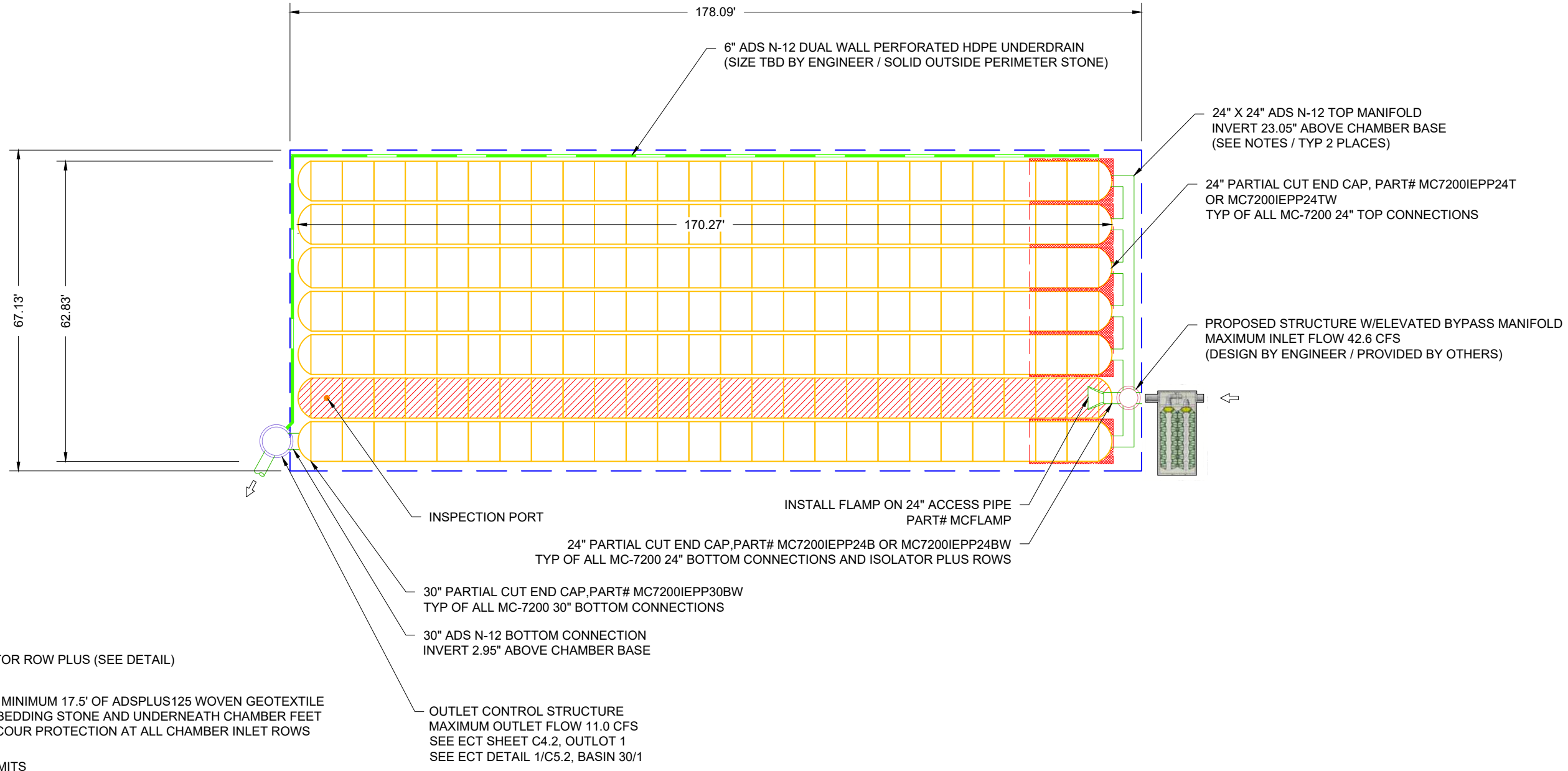
175	STORMTECH MC-7200 CHAMBERS
14	STORMTECH MC-7200 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
51,078	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
11954	SYSTEM AREA (ft²)
490	SYSTEM PERIMETER (ft)

CONCEPTUAL ELEVATIONS - BASIN 30

867.00	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
862.50	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
862.00	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
862.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
862.00	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
861.00	TOP OF STONE
860.00	TOP OF MC-7200 CHAMBER
856.92	24" TOP MANIFOLD INVERT
855.19	24" ISOLATOR ROW PLUS CONNECTION INVERT
855.25	30" BOTTOM CONNECTION INVERT
855.00	BOTTOM OF MC-7200 CHAMBER
854.25	UNDERDRAIN INVERT
854.25	BOTTOM OF STONE

NOTES

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
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STARKWEATHER CREEK / VOIT FARMS
REGIONAL DISTRICT STORMWATER
MADISON, WI

08/20/24	AVM	JPR	REVISED PER MARK UP
06/22/23	CJM	CJM	REDRAW SYSTEM 22 W/MC-7200 CHAMBERS
	CJM	DRWN	CHKD
		DATE	DESCRIPTION

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Chamber System
888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026

50'
25'
0

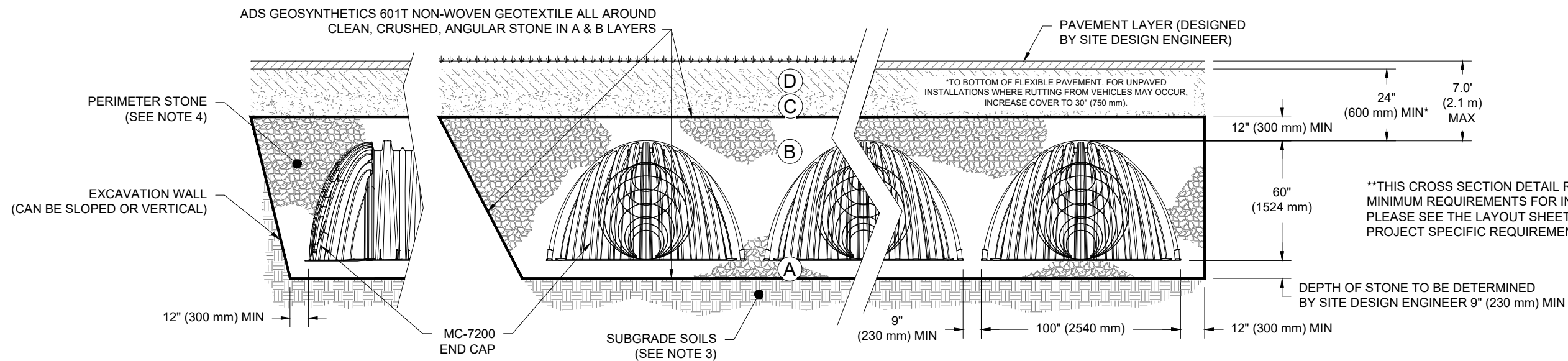
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ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: 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	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

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 9" (230 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.



NOTES:

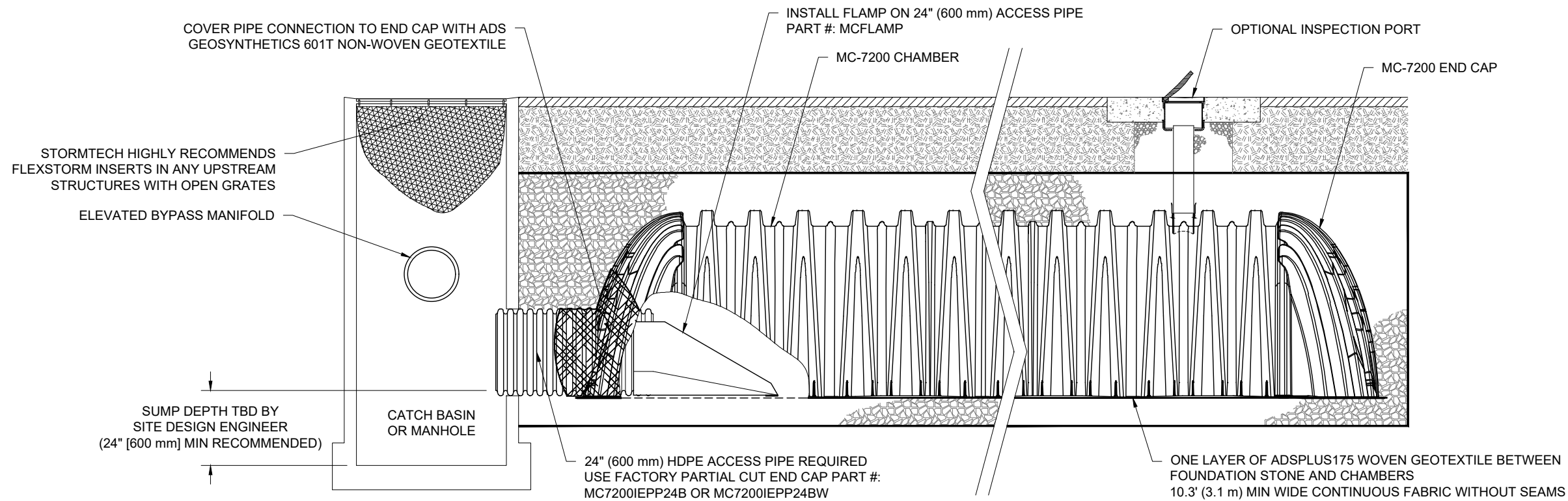
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC 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.
- 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 3".
 - 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 500 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.

STARKWEATHER CREEK / VOIT FARMS
 REGIONAL DISTRICT STORMWATER
 MADISON, WI
 DATE: 6/21/2023
 DRAWN: PEM
 PROJECT #: S360413
 CHECKED: JPR

REVISED PER MARK UP	DESCRIPTION
08/20/24	AVM
06/22/23	CJM
	DRWN
	CHKD

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MC-7200 ISOLATOR ROW PLUS DETAIL

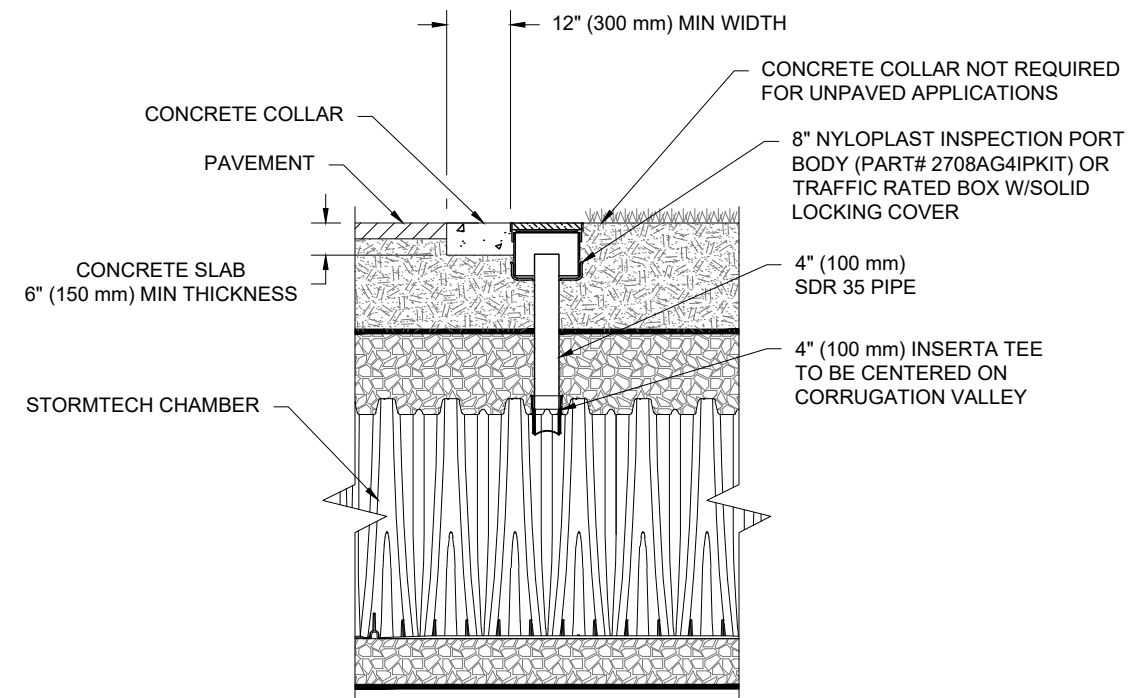
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B. ALL ISOLATOR PLUS ROWS
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
 - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

**4" PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)**

NTS

DATE	DRWN	CHKD	DESCRIPTION
08/20/24	AVM	JPR	REVISED PER MARK UP
06/22/23	CJM	CJM	REDRAW SYSTEM 22 W/MC-7200 CHAMBERS

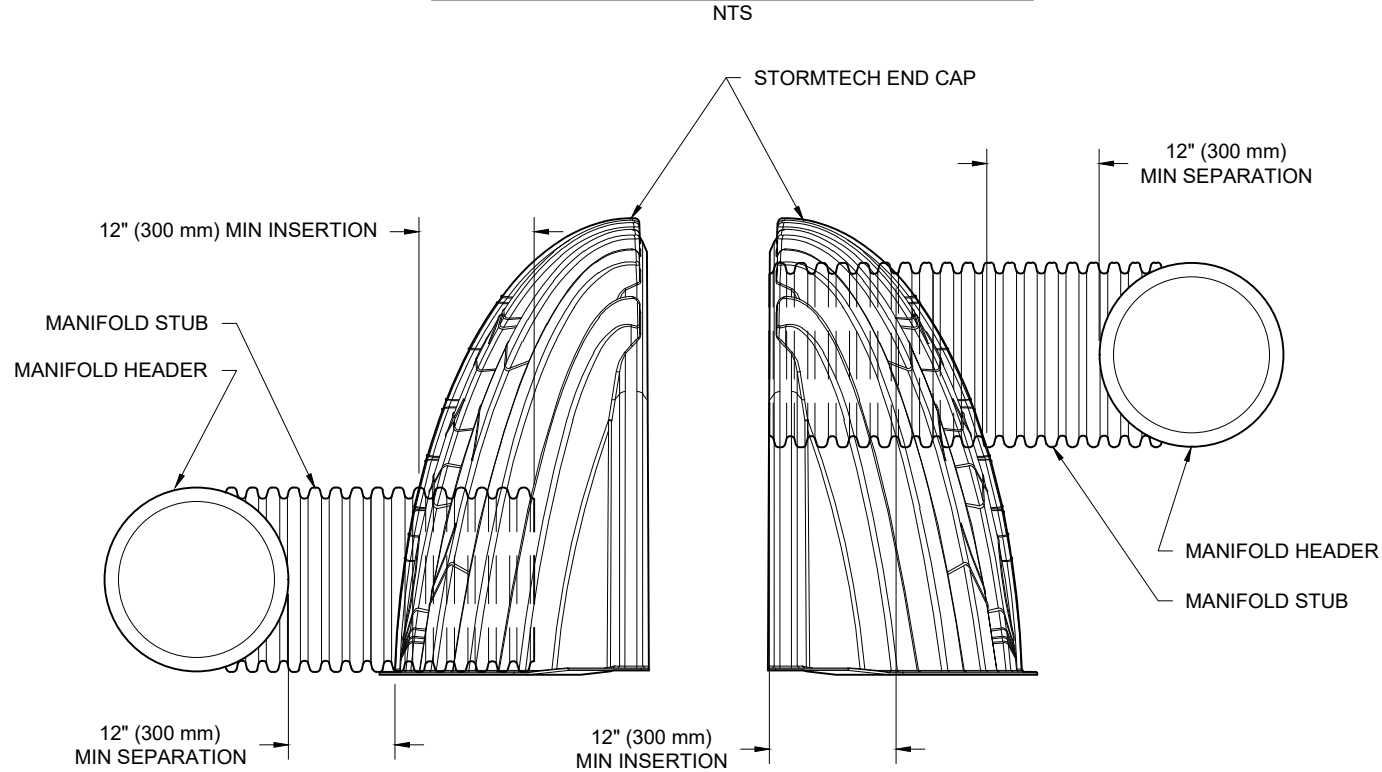
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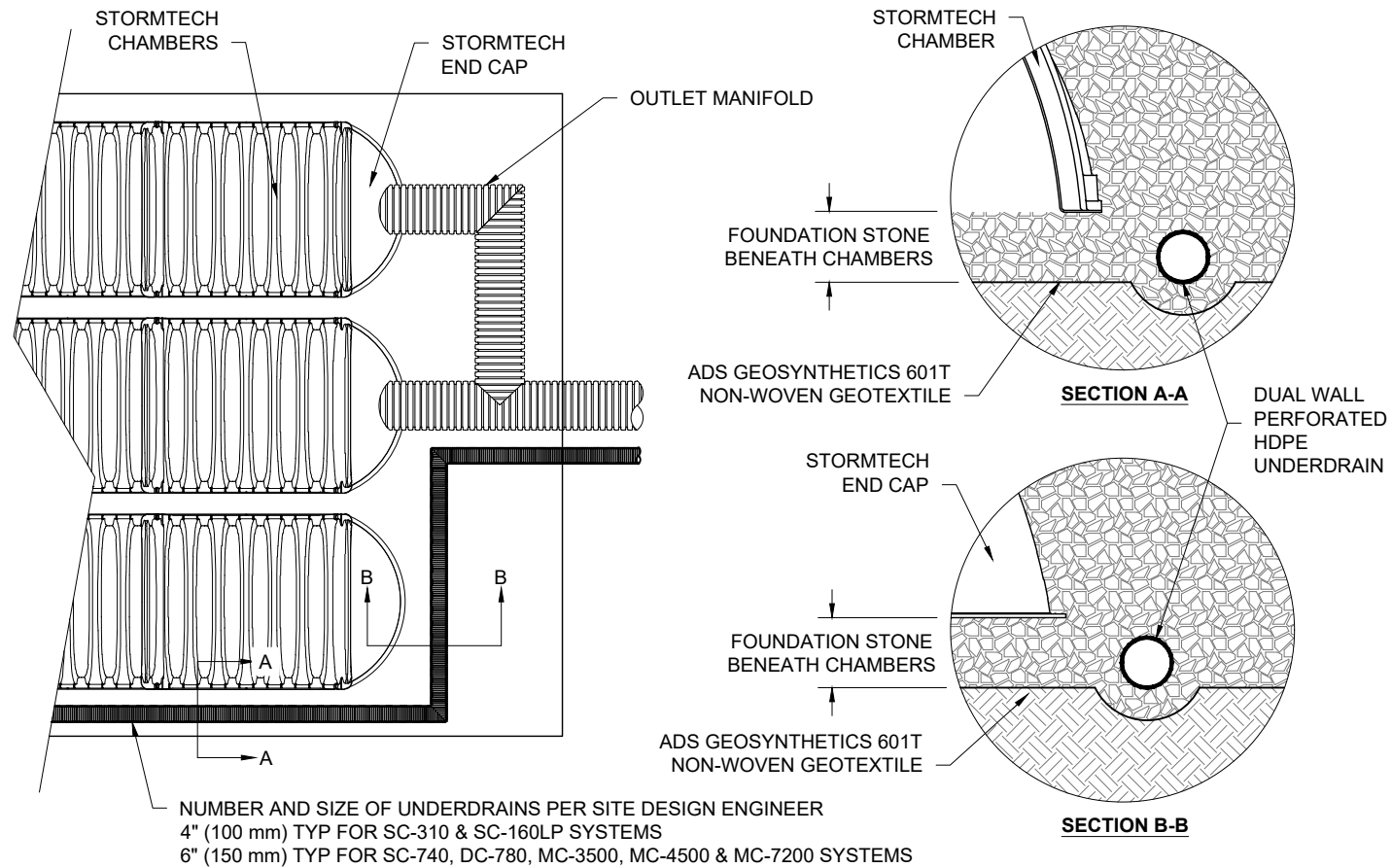
MC-SERIES END CAP INSERTION DETAIL



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

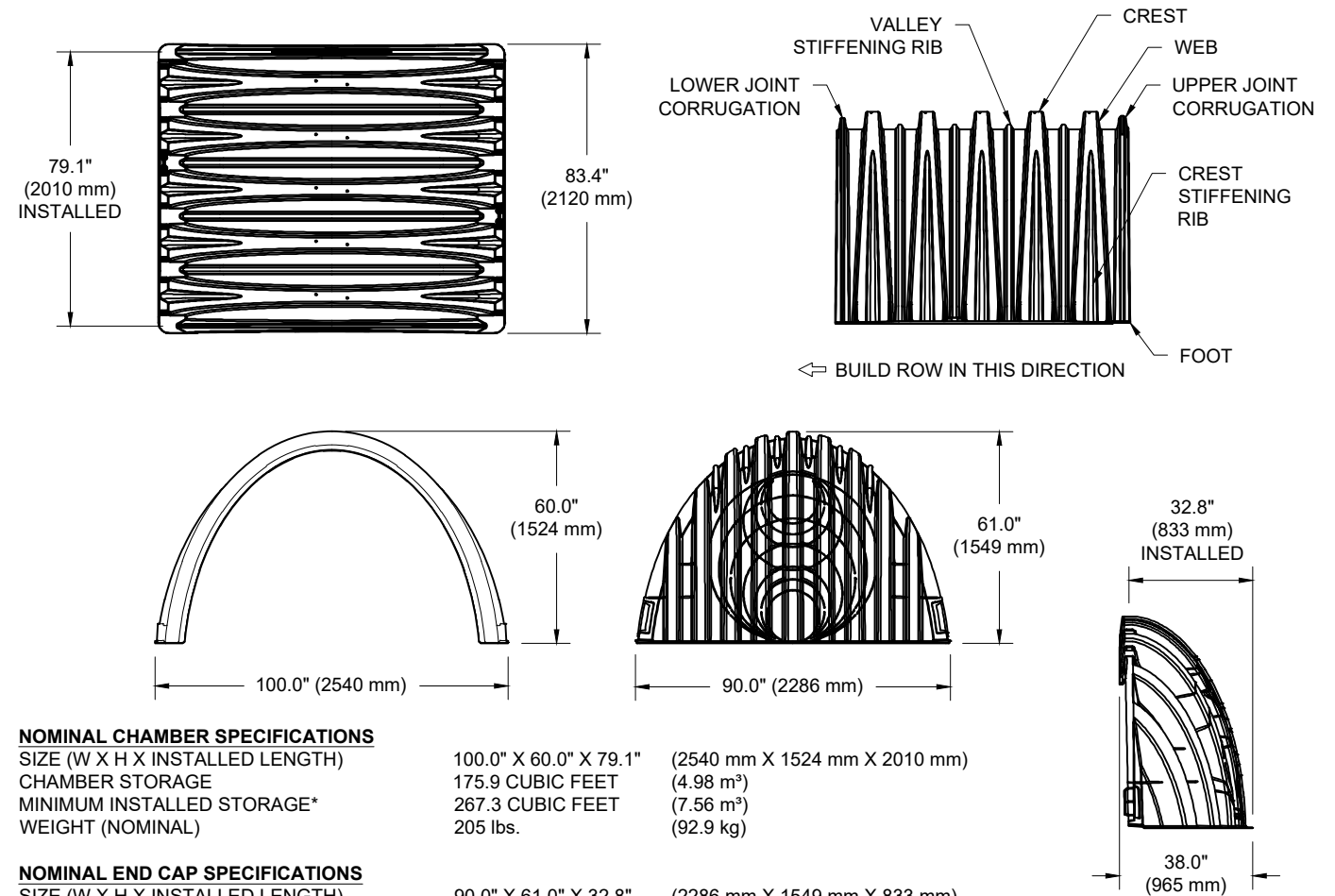
UNDERDRAIN DETAIL

NTS



MC-7200 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m ³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m ³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m ³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m ³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC7200IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC7200IEPP06B	---	---	0.86" (22 mm)
MC7200IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC7200IEPP08B	---	---	1.01" (26 mm)
MC7200IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC7200IEPP10B	---	---	1.33" (34 mm)
MC7200IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC7200IEPP12B	---	---	1.55" (39 mm)
MC7200IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC7200IEPP15B	---	---	1.70" (43 mm)
MC7200IEPP18T	---	29.36" (746 mm)	---
MC7200IEPP18TW	18" (450 mm)	---	---
MC7200IEPP18B	---	---	1.97" (50 mm)
MC7200IEPP18BW	---	---	---
MC7200IEPP24T	---	23.05" (585 mm)	---
MC7200IEPP24TW	24" (600 mm)	---	---
MC7200IEPP24B	---	---	2.26" (57 mm)
MC7200IEPP24BW	---	---	---
MC7200IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC7200IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC7200IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

STARKWEATHER CREEK / VOIT FARMS
REGIONAL DISTRICT STORMWATER
MADISON, WI

DATE: 6/21/2023
DRAWN: PEM
PROJECT #: S360413
CHECKED: JPR

REVISOR: JPR
REVISION: REVISED PER MARK UP
DATE: 08/20/24
DRAWN: CJM
CHECKED: CJM

DESCRIPTION: REDRAW SYSTEM 22 W/MC-7200 CHAMBERS
DATE: 06/22/23
DRAWN: CHKD
CHECKED: CHKD

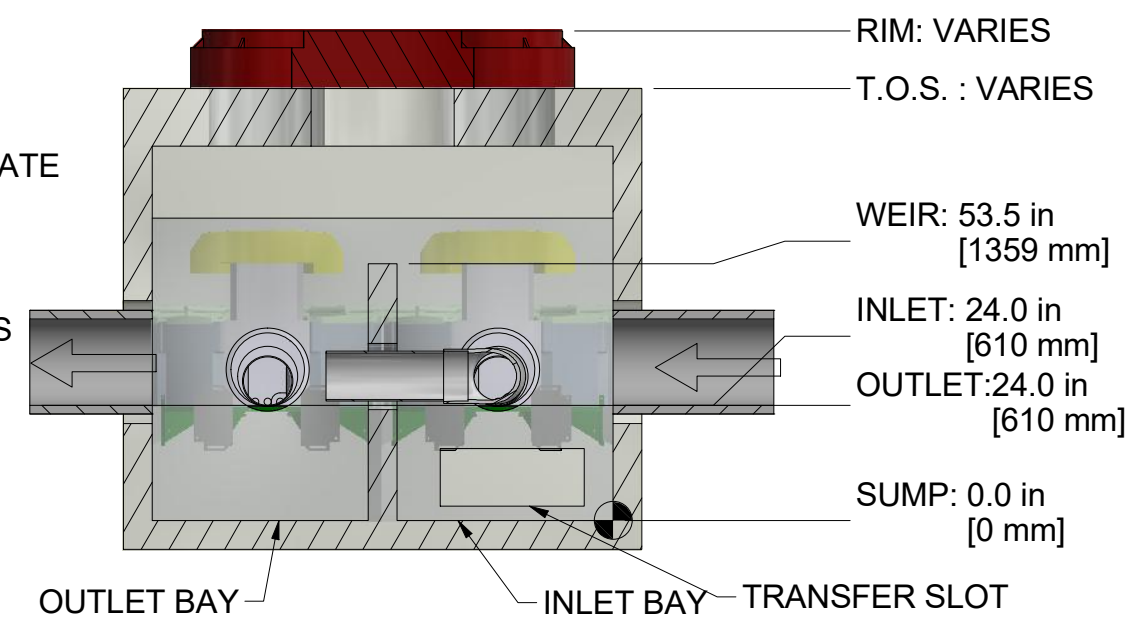
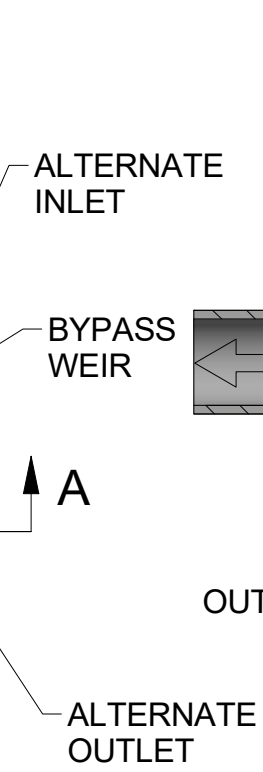
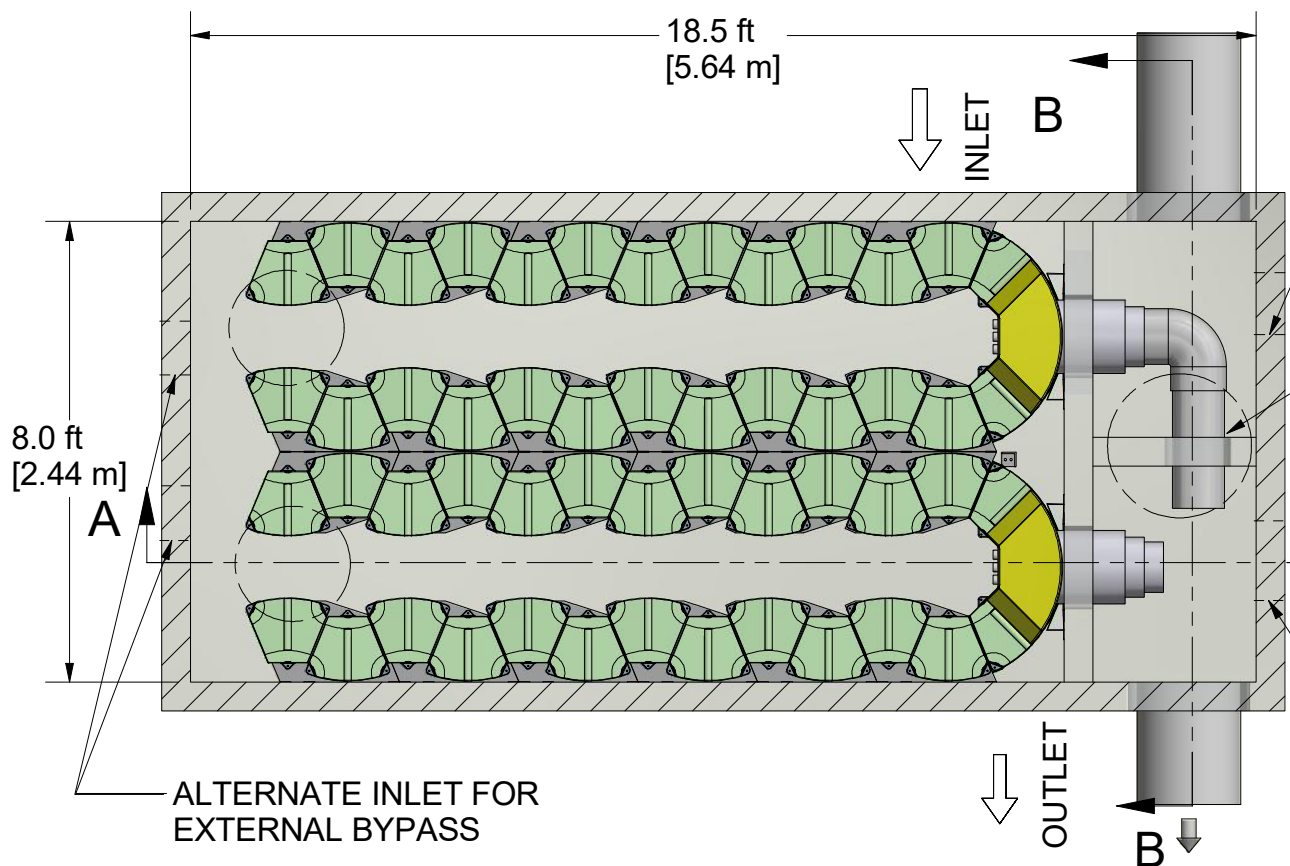
StormTech®
Chamber System

888-892-2694 | WWW.STORMTECH.COM

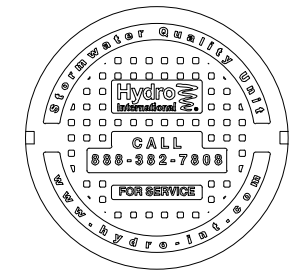
4640 TRUEMAN BLVD
HILLIARD, OH 43026

ADS

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.



SECTION B-B

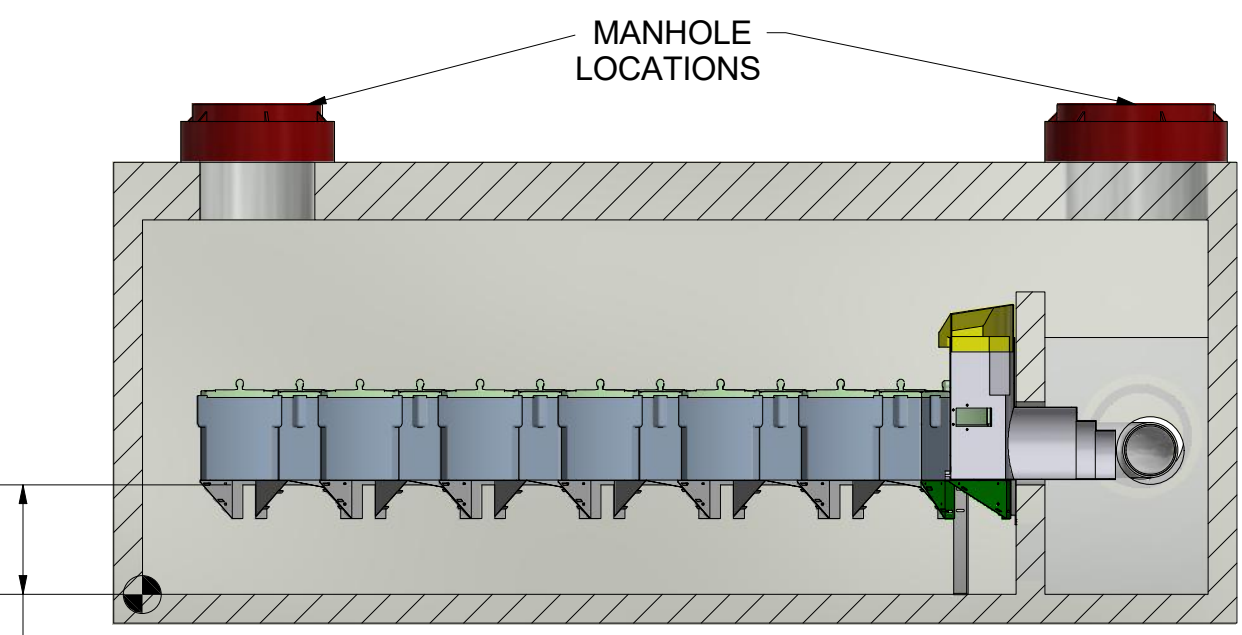


- COMMENTS:
1. STRUCTURE WALL AND SLAB THICKNESSES ARE NOT TO SCALE
 2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING THE STRUCTURE
 3. NOT FOR CONSTRUCTION CONTACT HYDRO FOR SITE SPECIFIC DRAWING
 4. NOT ALL SIZES AVAILABLE IN ALL AREAS
 5. SUMP DEPTH AVAILABLE IN 24" (610mm) CPZ, RIBBONS AND 36" (914mm) LONG RIBBONS DEPTH

REVISION HISTORY			
REV	BY	DESCRIPTION	DATE
-	ER	FIRST RELEASE	3/8/2019

DATE: 3/8/2019 SCALE: 1:40
 DRAWN BY: ER CHECKED BY: APPROVED BY:

Title
UP-FLO FILTER
 8ft (2438mm) X 18.5ft (5639mm)
 52 MODULES MAX



SECTION A-A

CAPACITIES:

- Minimum performance: 80% removal. Washington DOE/NJCAT verified at the peak treatment flow.
- Peak treatment flow:
 .033 CFS (0.9 LPS) (15 GPM) per module (Ribbons)
 .022 CFS (0.6 LPS) (10 GPM) per module (Long Ribbons)
 .056 CFS (1.6 LPS) (25 GPM) per module (CPZ)
- Maximum number of ribbon modules per outlet module: 36
- Maximum number of CPZ modules per outlet module: 18 (contract Hydro if more are required)

ADDITIONAL DESIGN INFORMATION:

- Normal operating W.S.E. is 26-30" (660-762mm) above the outlet invert
- Media Types Available: Ribbons, CPZ

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, (OR THE PERFORMANCE THERE OF) DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAVE A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, (OR ANY PART THEREOF), IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.
 ©2019 HYDRO INTERNATIONAL

DO NOT SCALE DRAWING
 UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
 TOLERANCES ARE:
 FRACTIONS ± 1/16
 DECIMALS:
 X.X ± .06
 X.XX ± .03
 X.XXX ± .015
 ANGLES: ± .5°

WEIGHT: N/A	MATERIAL:
NEXT ASSEMBLY: 8x18.5-1	
DRAWING NO.: 8x18.5-UFF-1	
SHEET SIZE: B	SHEET: 1 OF 1
	Rev: -

PROJECTION

- COMMENTS:
1. STRUCTURE WALL AND SLAB THICKNESSES ARE NOT TO SCALE
 2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING THE STRUCTURE
 3. NOT FOR CONSTRUCTION CONTACT HYDRO FOR SITE SPECIFIC DRAWING
 4. NOT ALL SIZES AVAILABLE IN ALL AREAS
 5. SUMP DEPTH AVAILABLE IN 24" (610mm) CPZ, RIBBONS AND 36" (914mm) LONG RIBBONS DEPTH

REVISION HISTORY			
REV	BY	DESCRIPTION	DATE
-	ER	FIRST RELEASE	6/17/2019

DATE: 6/17/2019 SCALE: NTS

DRAWN BY: ER CHECKED BY: APPROVED BY:

Title
UP-FLO FILTER
 4ft Manhole

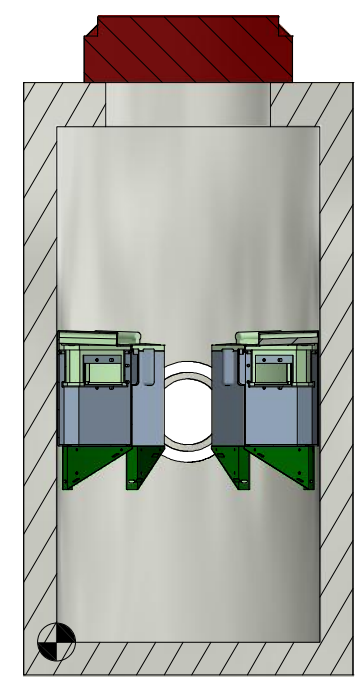
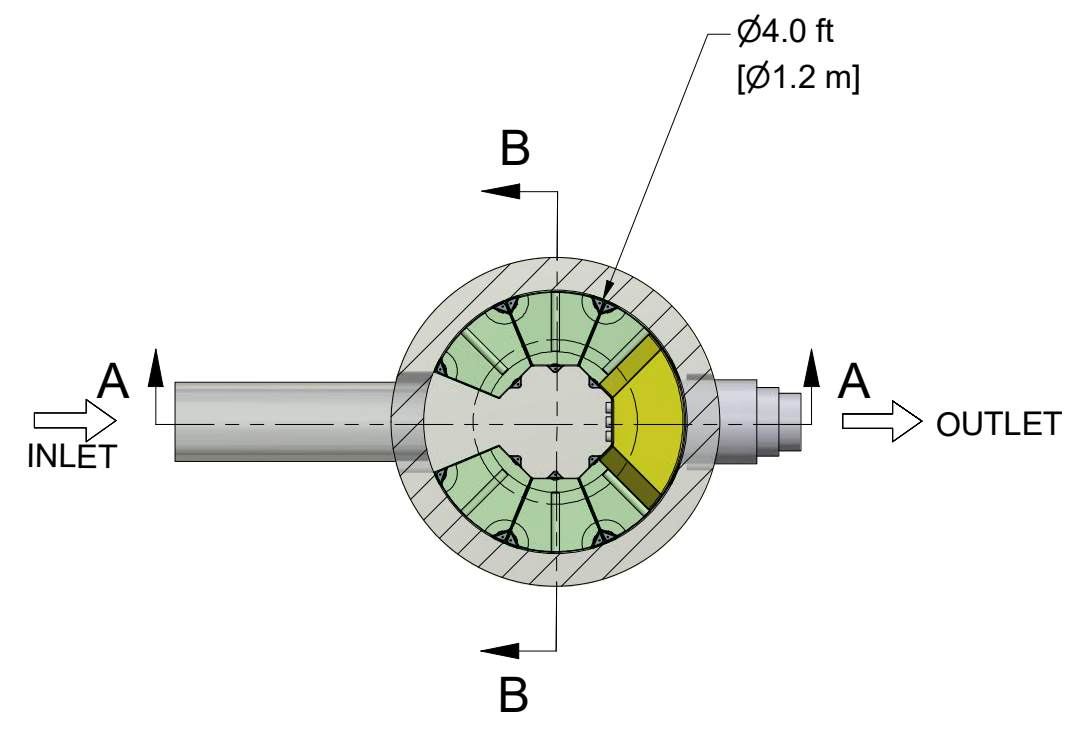
6 MODULES MAX

Sizing Tool

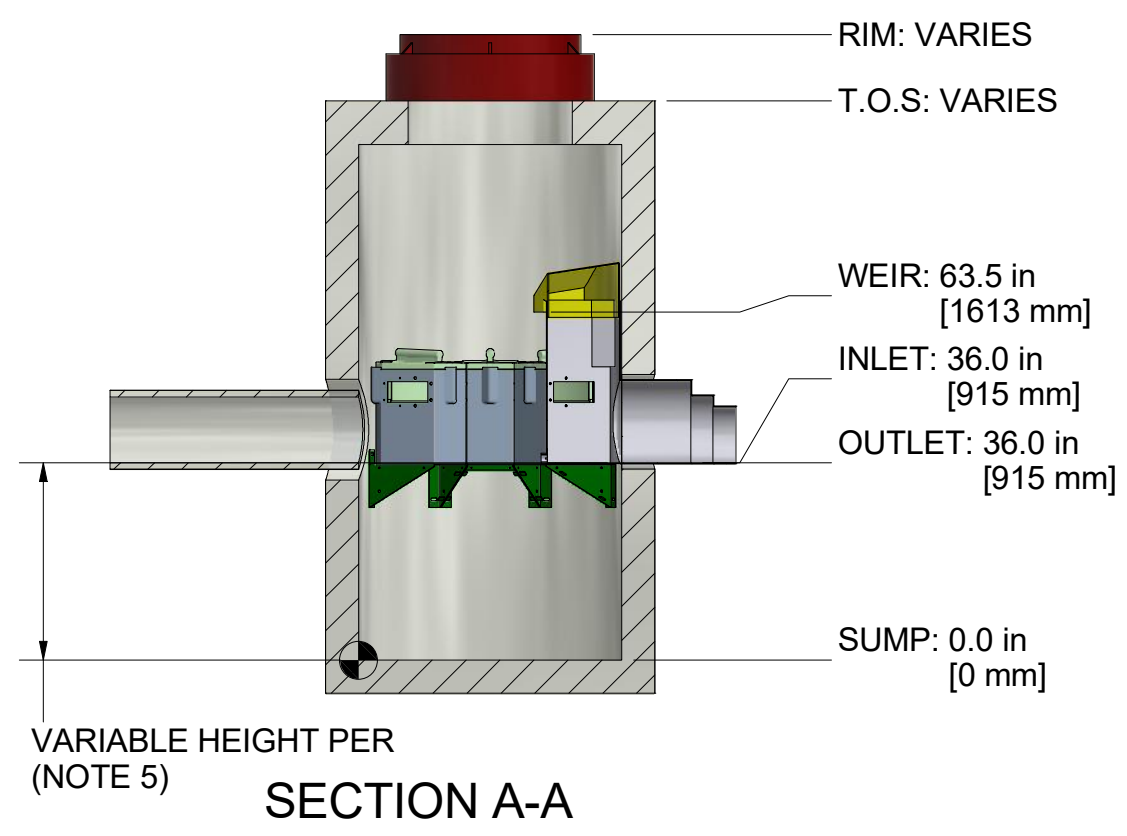
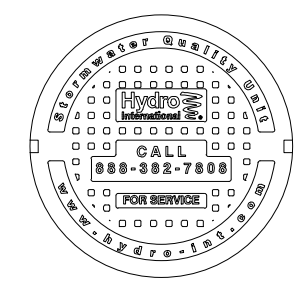
Hydro International

94 Hutchins Drive
 Portland, ME 04102
 Tel: +1 (207) 756-6200
 Fax: +1 (207) 756-6212
 hydro-int.com

WEIGHT: N/A	MATERIAL:
NEXT ASSEMBLY: 4 MH-1	
DRAWING NO.: 4 MH-UFF-1	
SHEET SIZE: B	SHEET: 1 OF 1
Rev: -	



SECTION B-B



CAPACITIES:

- Minimum performance: 80% removal. Washington DOE/NJCAT verified at the peak treatment flow.
- Peak treatment flow:
 .033 CFS (0.9 LPS) (15 GPM) per module (Ribbons)
 .022 CFS (0.6 LPS) (10 GPM) per module (Long Ribbons)
 .056 CFS (1.6 LPS) (25 GPM) per module (CPZ)
- Maximum number of ribbon modules per outlet module: 36
- Maximum number of CPZ modules per outlet module: 18 (contract Hydro if more are required)

ADDITIONAL DESIGN INFORMATION:

- Normal operating W.S.E. is 26-30" (660-762mm) above the outlet invert
- Media Types Available: Ribbons, CPZ

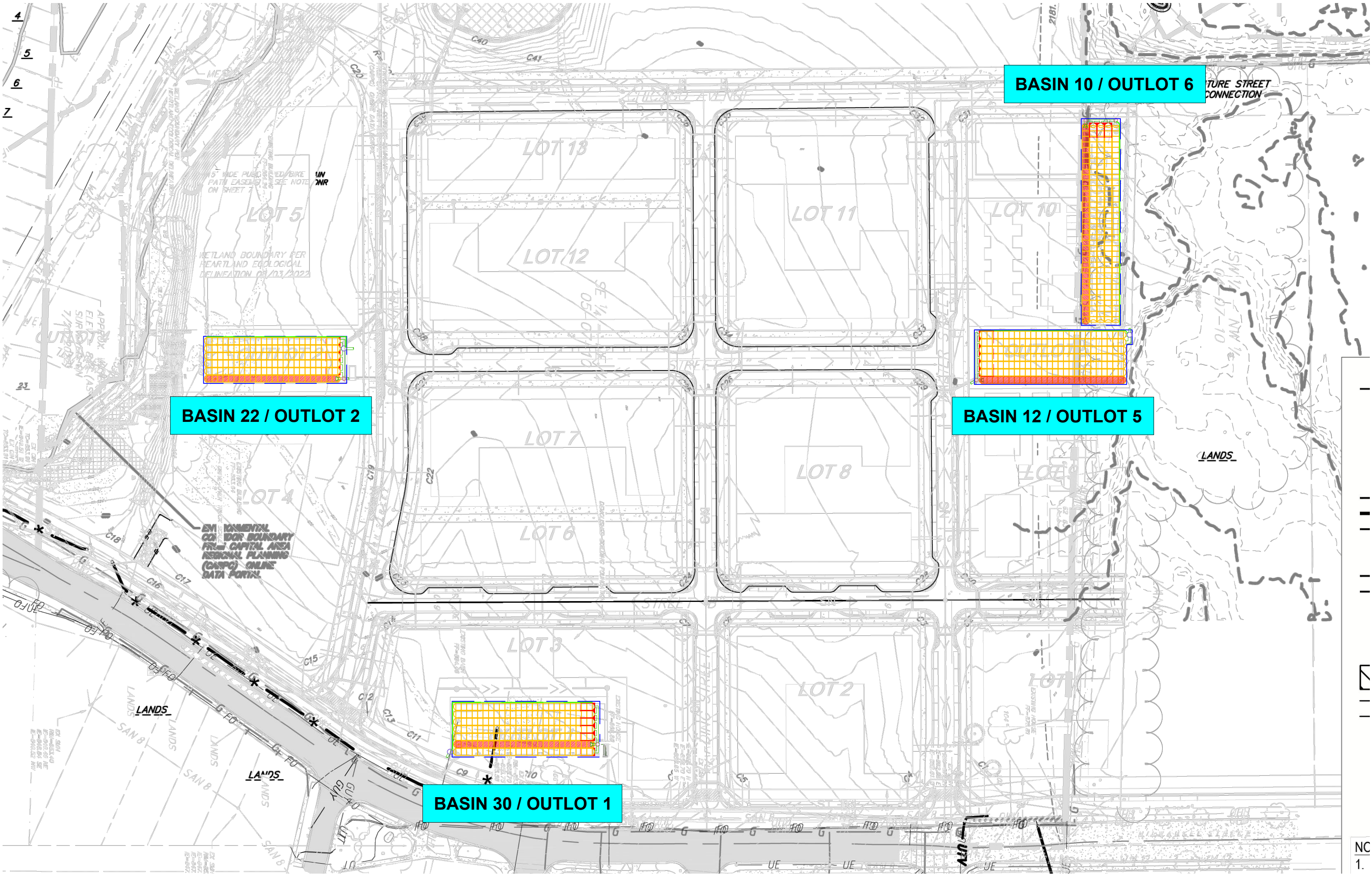
ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, (OR THE PERFORMANCE THERE OF) DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAVE A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, (OR ANY PART THEREOF), IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.

©2019 HYDRO INTERNATIONAL

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
 FRACTIONS ± 1/16
 DECIMALS:
 X.X ± .06
 X.XX ± .03
 X.XXX ± .015
 ANGLES: ± .5°



BASIN 22 / OUTLOT 2

BASIN 10 / OUTLOT 6

BASIN 12 / OUTLOT 5

BASIN 30 / OUTLOT 1

SYMBOL LEGEND

- EXISTING POST
- EXISTING SIGN
- EXISTING CURB INLET
- EXISTING ENDWALL
- EXISTING RECTANGULAR FIELD INLET
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER MAIN VALVE
- EXISTING CURB STOP
- EXISTING WATER MANHOLE
- EXISTING GAS VALVE
- EXISTING DOWN GUY
- EXISTING ELECTRIC MANHOLE
- EXISTING TV MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING TELEPHONE MANHOLE
- EXISTING LIGHT POLE
- EXISTING UNIDENTIFIED UTILITY VAULT
- EXISTING UTILITY POLE
- EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING UNIDENTIFIED MANHOLE
- EXISTING UNIDENTIFIED UTILITY VAULT
- EXISTING TRAFFIC SIGNAL
- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE

LINWORK LEGEND

- EXISTING SANITARY SEWER LINE
- EXISTING STORM SEWER LINE
- EXISTING WATER MAIN
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING FIBER OPTIC LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD GENERAL UTILITIES
- EXISTING GUY LINE
- EXISTING RETAINING WALL
- EXISTING GENERAL FENCE
- EXISTING WIRE FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING CORPORATE BOUNDARY LINE
- 100-YEAR FLOODPLAIN BOUNDARY FROM MNR
- EXISTING EDGE OF WATER AS SURVEYED ON 7/20/2022
- EXISTING WETLAND DELINEATION
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 100-YEAR FLOODPLAIN ELEVATION CROSS SECTIONS

SURVEY LEGEND

- BENCHMARK
- FOUND CHISELED "X"
- PUBLIC LAND CORNER AS NOTED
- FOUND 1" # IRON PIPE
- FOUND 2" # IRON PIPE
- FOUND 1 1/4" # IRON ROD
- FOUND 3/4" # IRON ROD
- FOUND RAILROAD SPIKE
- SET CHISELED "X"
- SET NAIL
- SET P.K. NAIL

HATCHING LEGEND

- EXISTING CONCRETE PAVEMENT/SIDEWALK
- EXISTING ASPHALT
- EXISTING GRAVEL
- DETECTABLE WARNING PAVEMENT

BENCHMARK TABLE

- BENCHMARK #1 - ELEV. 858.28'; TOP NUT OF FIRE HYDRANT LOCATED ON THE NORTH SIDE OF MILWAUKEE STREET 450' S WEST OF LEON STREET.
- BENCHMARK #2 - ELEV. 865.81'; TOP NUT OF FIRE HYDRANT LOCATED IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF MILWAUKEE STREET AND LANSING STREET.
- BENCHMARK #3 - ELEV. 862.02'; TOP NUT OF FIRE HYDRANT LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF MILWAUKEE STREET AND HARDING STREET.
- BENCHMARK #4 - ELEV. 873.06'; TOP NUT OF FIRE HYDRANT LOCATED IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF MILWAUKEE STREET AND WALTER STREET.

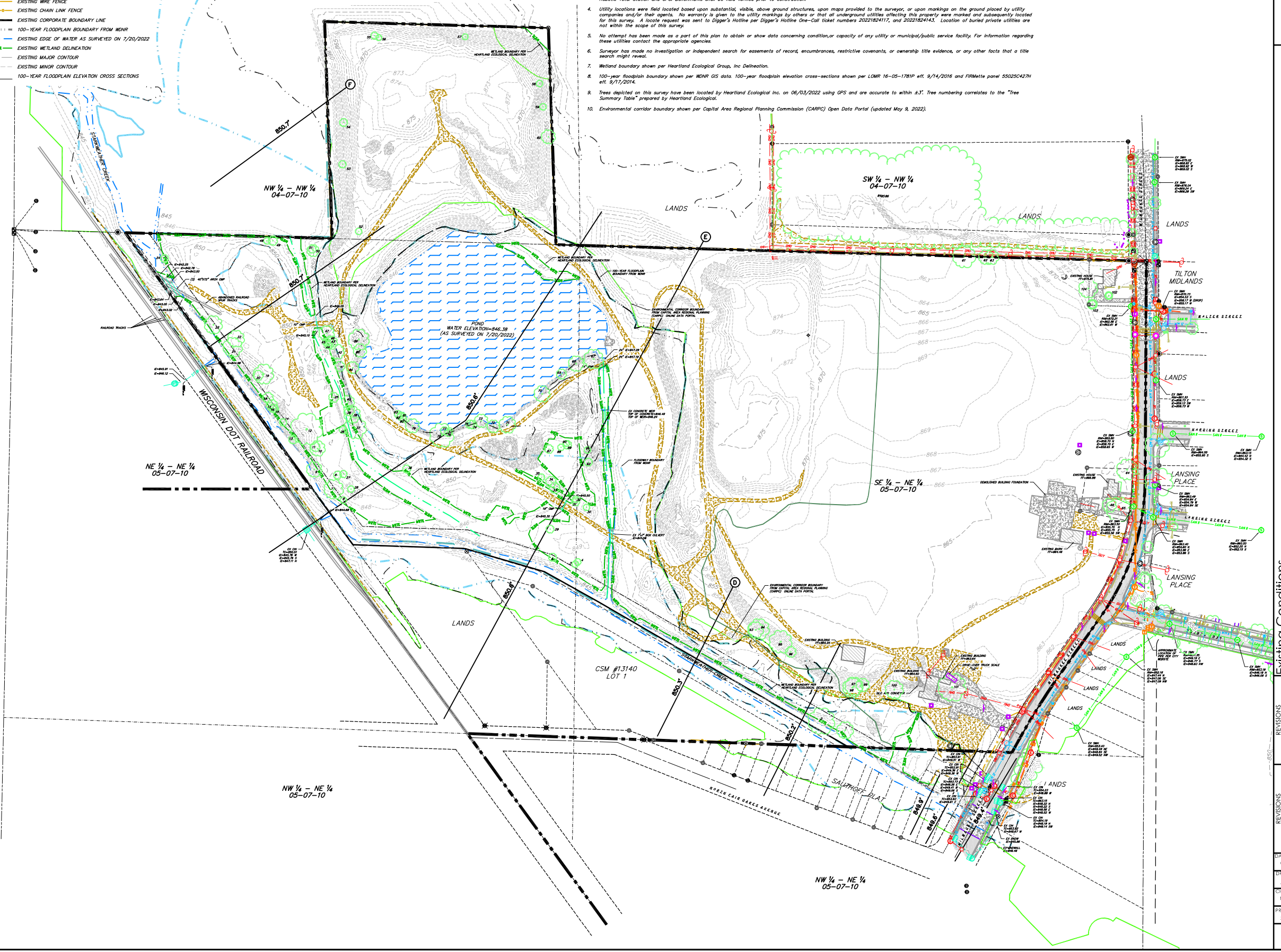
- GENERAL NOTES**
- This survey was prepared based upon information provided in Commitment for Title Insurance, Commitment No. NCS-1107413-MAD, dated January 13, 2022 at 7:30 a.m. from First American Title Insurance Company, 25 West Main Street, Suite 400, Madison, WI 53703.
 - Exception #1: There are no easements referenced, only an option to purchase.
 - Exception #2: The document references an easement for spur tracks. There are no spur tracks located within or immediately adjacent to the limits of the Parcels Surveyed. There is a spur track located on the North side of the mainline track and within the existing Railroad Right-of-Way. This document also references the relocation of Starkweather Creek. The limits of Starkweather Creek have been shown.
 - Exception #3: Pertains to a sewage drainfield located on 3450 Milwaukee Street, (Parcel 008/0710-051-8251-0) for the benefit of the house located on 3510 Milwaukee Street, (Parcel 008/0710-051-8680-8). The easement for said drainfield is blanket in nature and not plottable. It is possible that this house is served by City Sewer & Water. If that is the case, the owner should have this indicated on the plan. Further, Section C of this document indicates that "in the event the residence on parcel 1 shall be served by a municipal sewerage system, this easement shall cease and be null and void," so this exception could be removed without the benefit of a survey.
 - Exception #4: There are multiple Parcels referenced in this Quiet Claim Deed. Some of the Parcels are located outside of the limits of the Survey and are within the Town of Sun Prairie (Parcels 058/0811-221-9685-9 & 058/0811-224-8000-5). Easements referenced in these Parcels do not pertain to the Parcels Surveyed. There are no easements referenced in the Parcels included in this Survey, only exceptions for convenience for highway purposes.
 - This plan is based upon field survey work performed on May 04, May 16, July 20, and July 25, 2022. Any changes in site conditions after July 25, 2022 are not reflected on this plan.
 - This plan is referenced to the Wisconsin County Coordinate System-Dane Zone, NAD 83 (2011). Elevations are referenced to NAVD 88 (2012) datum. Field data was obtained using Public Total Station and GPS. Benchmarks shall be field verified prior to construction.
 - Utility locations were field located based upon substantial, visible, above ground structures, upon mass provided to the surveyors, or upon markings on the ground placed by utility companies and/or their agents. No warranty is given to the utility markings by others or that all underground utilities affecting this property were marked and subsequently located for this survey. A locate request was sent to Digger's Hotline per Digger's Hotline One-Call ticket numbers 20221824117, and 20221824143. Location of buried private utilities are not within the scope of this survey.
 - No attempt has been made as a part of this plan to obtain or show data concerning condition or capacity of any utility or municipal/public service facility. For information regarding these utilities contact the appropriate agencies.
 - Surveyor has made no investigation or independent search for encumbrances, restrictive covenants, or ownership title evidence, or any other facts that a title search might reveal.
 - Wetland boundary shown per Heartland Ecological Group, Inc. Delineation.
 - 100-year floodplain boundary shown per MNR GIS data. 100-year floodplain elevation cross-sections shown per LDMR 16-05-1781P eff. 9/14/2016 and FIRMette panel 55025C427H eff. 9/17/2014.
 - Trees depicted on this survey have been located by Heartland Ecological Inc. on 06/03/2022 using GPS and are accurate to within ±3'. Tree numbering correlates to the "Tree Summary Table" prepared by Heartland Ecological.
 - Environmental corridor boundary shown per Capital Area Regional Planning Commission (CARPC) Open Data Portal (updated May 9, 2022).

SURVEYED FOR:
VOIL LAND, LLC
3450 MILWAUKEE STREET
MADISON, WI 53714

SURVEYED BY:
Vierbicher Associates, Inc.
999 FOURIER DRIVE,
SUITE 201
MADISON, WI 53717
(608) 826-0532

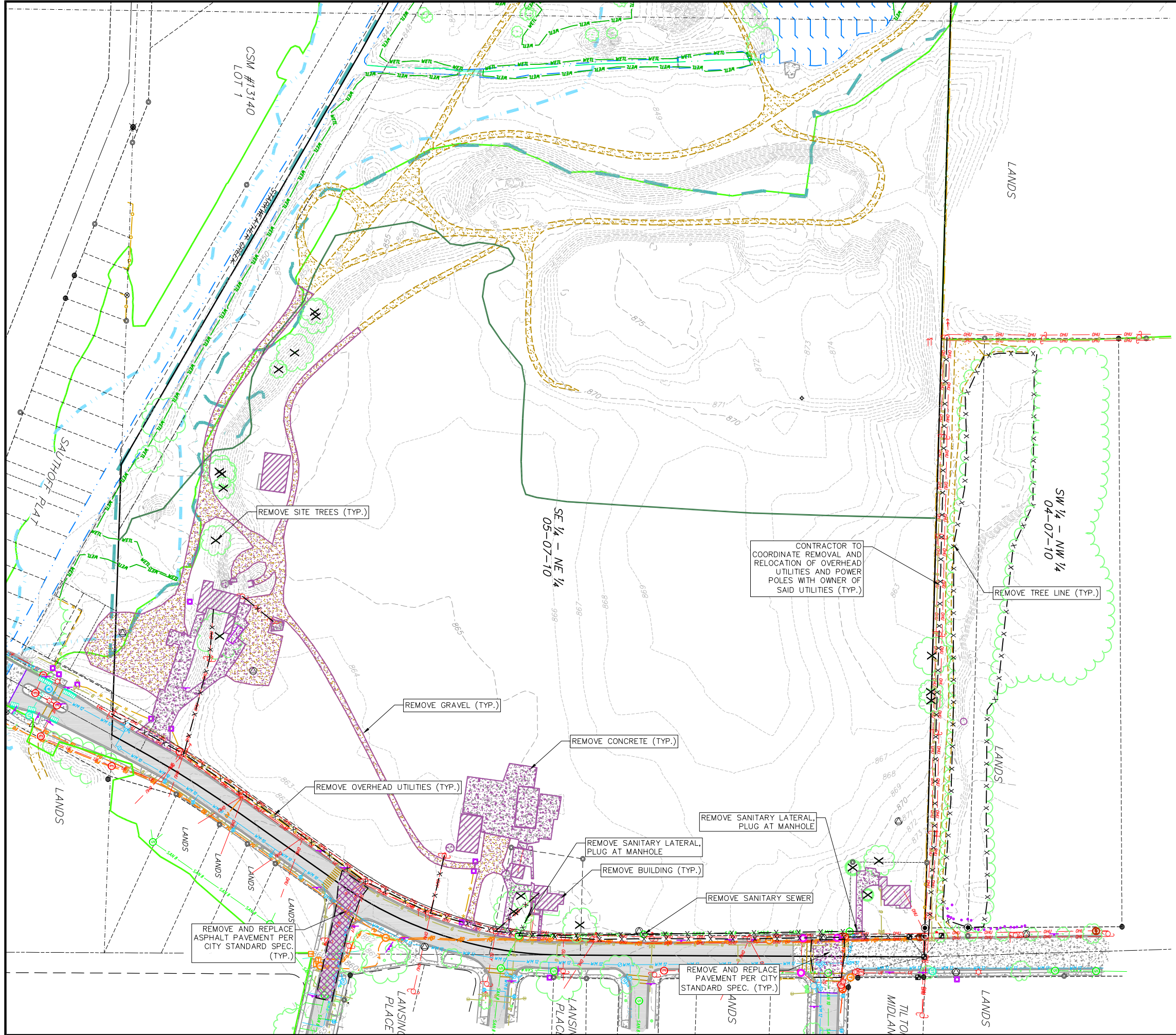
BEARINGS ARE BASED UPON THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY, THE WEST LINE OF THE NW 1/4 OF SEC 04-07-10 MEASURED AS BEARING S01°36'15"W

0 100 200
SCALE: 1" = 100'



NO.	DATE	REVISIONS	NO.	DATE	REVISIONS

DATE: 04/02/2026
DRAWN BY: AMEA
CHECKED BY: MMAR/RKOL
PROJECT NO.: 220031
C1.0

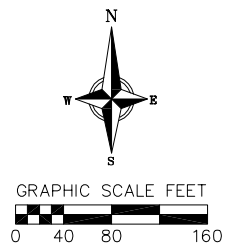
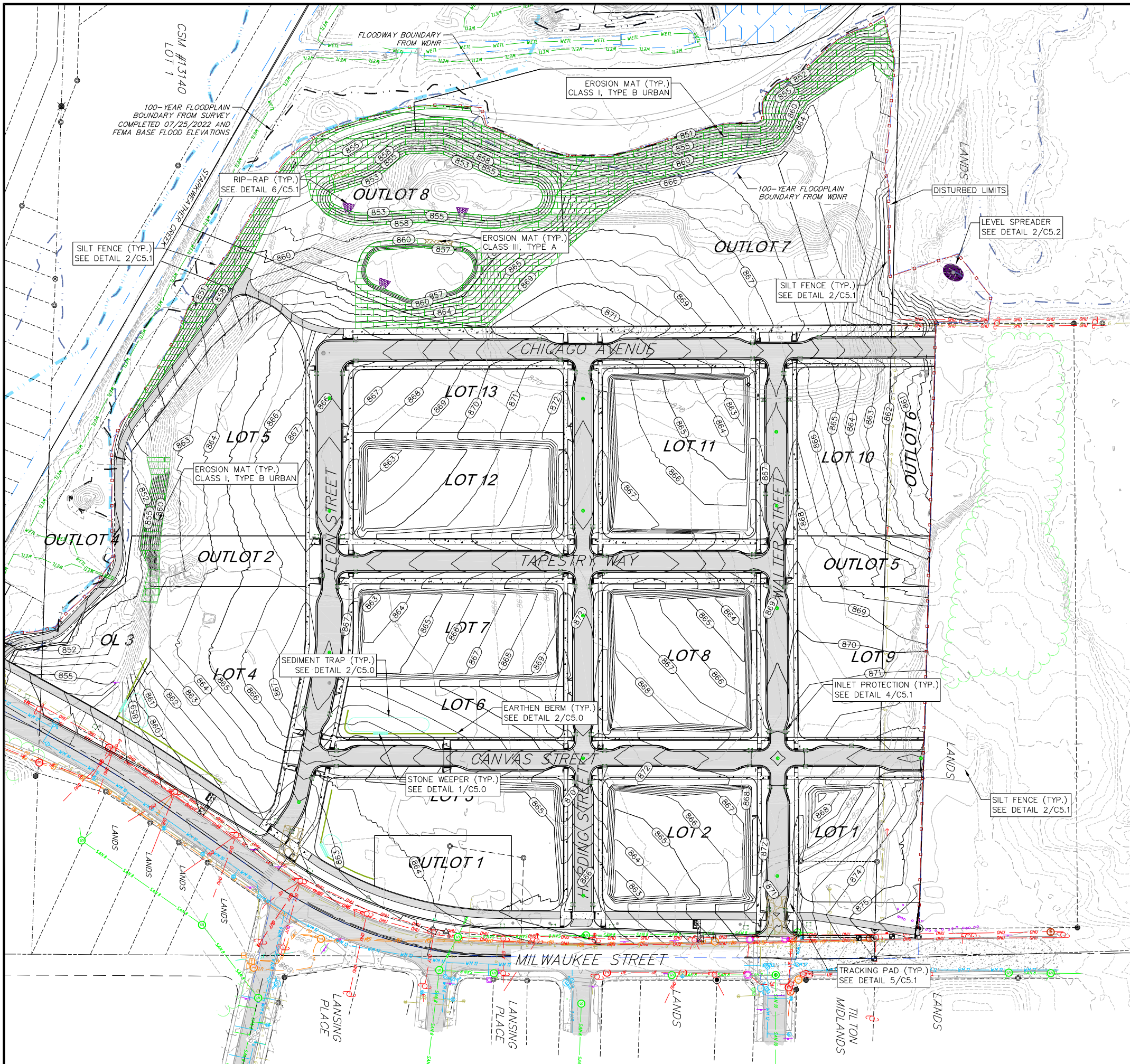


NOTE:
 THE DEVELOPER SHALL DETERMINE WHETHER SOIL AND WATER ON THE LAND ARE CONTAMINATED. ANY CONTAMINATED SOIL OR WATER SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH ALL WISCONSIN DEPARTMENT OF NATURAL RESOURCES REGULATIONS AT THE SOLE COST OF THE DEVELOPER, AND IN CONSULTATION WITH THE CITY. FOLLOWING DISPOSAL, DEVELOPER SHALL PROVIDE ANY NECESSARY RECORDS PERTAINING TO THE DISPOSAL ACTIVITY TO THE CITY.

Demolition Plan
 Starkweather Plat
 City of Madison
 Dane County, WI

REVISIONS	NO.	DATE	REMARKS

DATE: 04/02/2026
 DRAFTER: ZDRE /JDEL
 CHECKED: RKOL
 PROJECT NO.: 220031



GRADING LEGEND

- 820 --- EXISTING MAJOR CONTOURS
- 818 --- EXISTING MINOR CONTOURS
- 820 --- PROPOSED MAJOR CONTOURS
- 818 --- PROPOSED MINOR CONTOURS
- SILT FENCE
- DISTURBED LIMITS
- BERM
- DRAINAGE DIRECTION
- 2.92% PROPOSED SLOPE ARROWS
- 1048.61 EXISTING SPOT ELEVATIONS
- 1048.61 PROPOSED SPOT ELEVATIONS
- INLET PROTECTION
- EROSION MAT CLASS III, TYPE C
- TRACKING PAD
- RIP RAP
- STONE WEEPERS
- EROSION MAT CLASS I, TYPE B

GRADING NOTES:

- CONTOURS ARE SHOWN FOR PURPOSES OF INDICATING ROUGH GRADING. FINAL GRADE SHALL BE ESTABLISHED ON PAVED SURFACES BY USING THE PUBLIC IMPROVEMENT PLANS ISSUED BY THE CITY.
- ALL GRADES SHOWN REFERENCE FINISHED ELEVATIONS.
- NO LAND DISTURBANCE ACTIVITIES SHALL BEGIN UNTIL ALL EROSION CONTROL BMP'S ARE INSTALLED.
- SEE DETAIL SHEETS FOR EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.
- DEVELOPER SHALL NOT USE PARK PROPERTY FOR CONSTRUCTION STAGING, STOCKPILING MATERIAL, OR ANY OTHER PURPOSE UNLESS SPECIFICALLY APPROVED BY THE PARKS SUPERINTENDENT.
- NO FILL SHALL BE PLACED WITHIN THE 100-YEAR FLOODPLAIN WITHOUT APPROVAL FROM CITY OF MADISON ZONING. CONTACT CHRISTINA THIELE (cthiele@cityofmadison.com) WITH ANY QUESTIONS PRIOR TO SITE PLAN SUBMITTAL.

GENERAL NOTES:

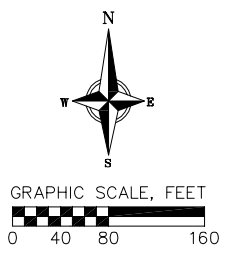
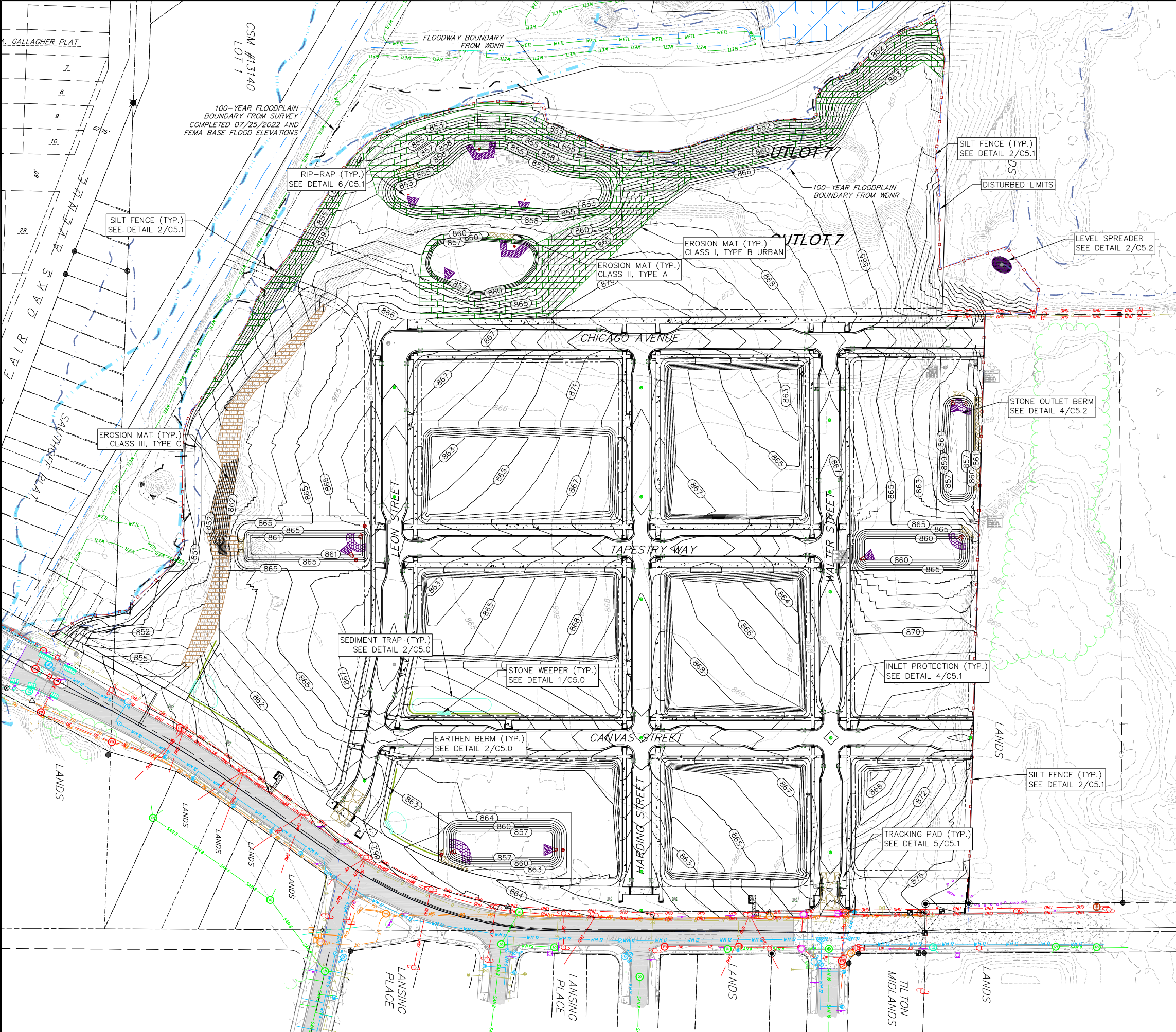
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED DURING CONSTRUCTION TO PUBLIC PROPERTY, PRIVATE PROPERTY OR UTILITIES.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER AND CITY, PRIOR TO PLACING AN ORDER OF ANY SUCH ITEM.
- EXISTING TOPOGRAPHIC INFORMATION IS BASED ON FIELD OBSERVATIONS AND/OR PLAN OF RECORD DRAWINGS. CONTRACTOR SHALL VERIFY TOPOGRAPHIC INFORMATION PRIOR TO STARTING CONSTRUCTION.
- RIGHT OF WAY (ROW) AND PROPERTY LINES ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTATION. ANY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANY'S REGARDING ANY POTENTIAL CONFLICTS AND COORDINATE RELOCATIONS AS MAY BE REQUIRED. CONTRACTOR SHALL ALSO COORDINATE THE PROPOSED INSTALLATION OF NEW FACILITIES AS REQUIRED.

Grading and Erosion Control Plan - Overall
 Starkweather Plat
 City of Madison
 Dane County, WI

NO.	DATE	REVISIONS	REMARKS

DATE: 04/02/2026
 DRAFTER: ZDRE/JDEL
 CHECKED: RKOL
 PROJECT NO.: 220031

03 Apr 2026 - 9:56a M:\Stone House Development\220031_Volf Form\CADD\220031_Interim Grading & EC.dwg by: rkol



- GRADING LEGEND**
- 820 --- EXISTING MAJOR CONTOURS
 - 818 --- EXISTING MINOR CONTOURS
 - 820 --- PROPOSED MAJOR CONTOURS
 - 818 --- PROPOSED MINOR CONTOURS
 - --- SILT FENCE
 - --- DISTURBED LIMITS
 - --- BERM
 - >--- DRAINAGE DIRECTION
 - >--- PROPOSED SLOPE ARROWS
 - --- EXISTING SPOT ELEVATIONS
 - --- PROPOSED SPOT ELEVATIONS
 - --- INLET PROTECTION
 - --- EROSION MAT CLASS II, TYPE A
 - --- TRACKING PAD
 - --- RIP RAP
 - --- STONE WEEPERS
 - --- EROSION MAT CLASS I, TYPE B URBAN

- GRADING NOTES:**
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 - EXISTING TOPOGRAPHIC INFORMATION IS BASED ON FIELD OBSERVATIONS AND/OR PLAN OF RECORD DRAWINGS. CONTRACTOR SHALL VERIFY TOPOGRAPHIC INFORMATION PRIOR TO STARTING CONSTRUCTION.
 - RIGHT OF WAY (ROW) AND PROPERTY LINES ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTATION. ANY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
 - CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANY'S REGARDING ANY POTENTIAL CONFLICTS AND COORDINATE RELOCATIONS AS MAY BE REQUIRED. CONTRACTOR SHALL ALSO COORDINATE THE PROPOSED INSTALLATION OF NEW FACILITIES AS REQUIRED.

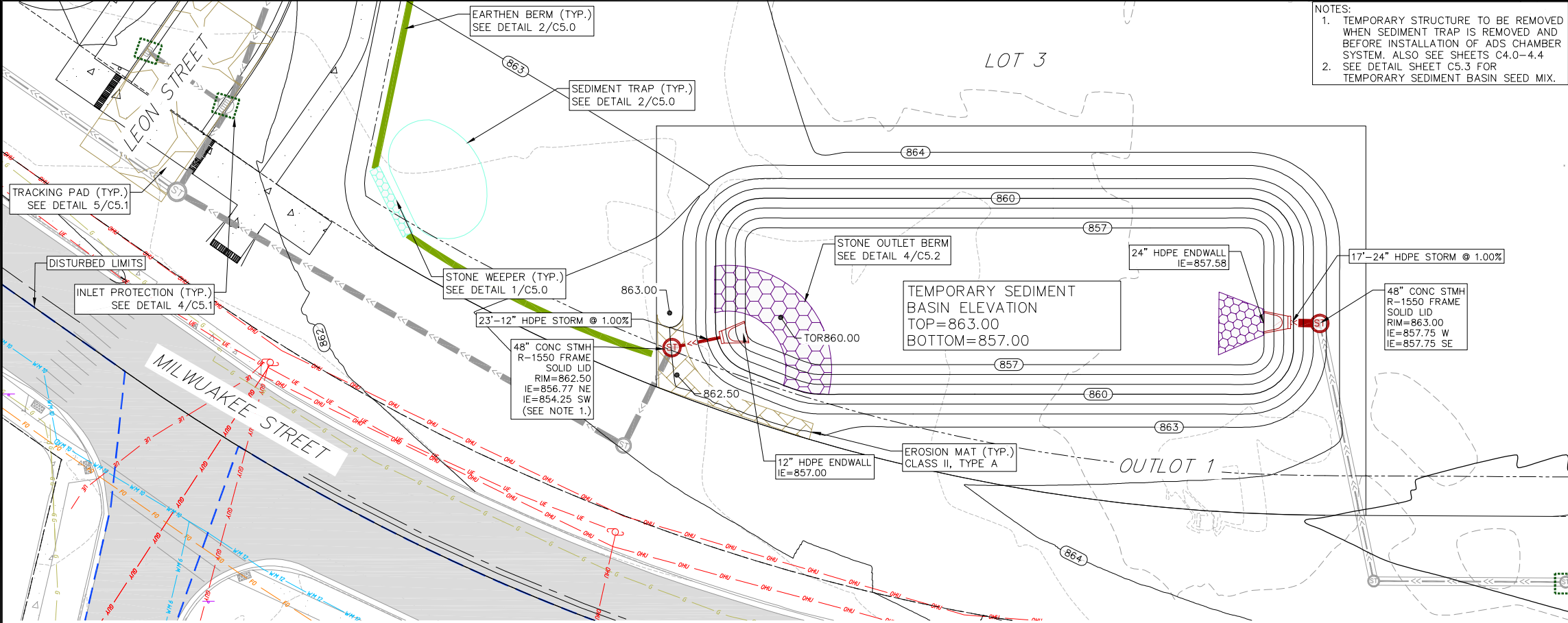
Grading and Erosion Control - Interim
 Starkweather Plat
 City of Madison
 Dane County, WI

NO.	DATE	REVISIONS	REMARKS

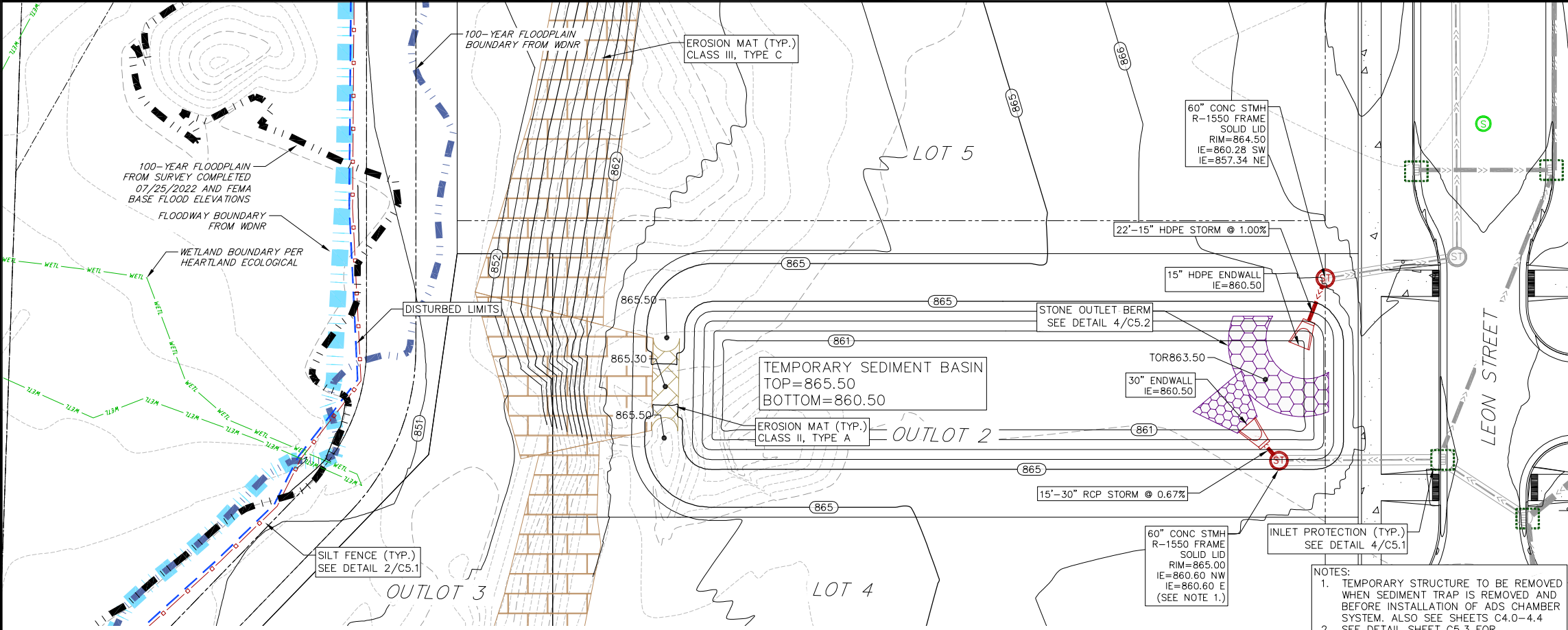
DATE: 04/02/2026
 DRAFTER: ZDRE/JDEL
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 PROJECT NO.: 220031



03 Apr 2026 - 9:52a M:\Stone House Development\220031_Volf Farm\CADD\220031_Interim Grading & EC.dwg by: rkol



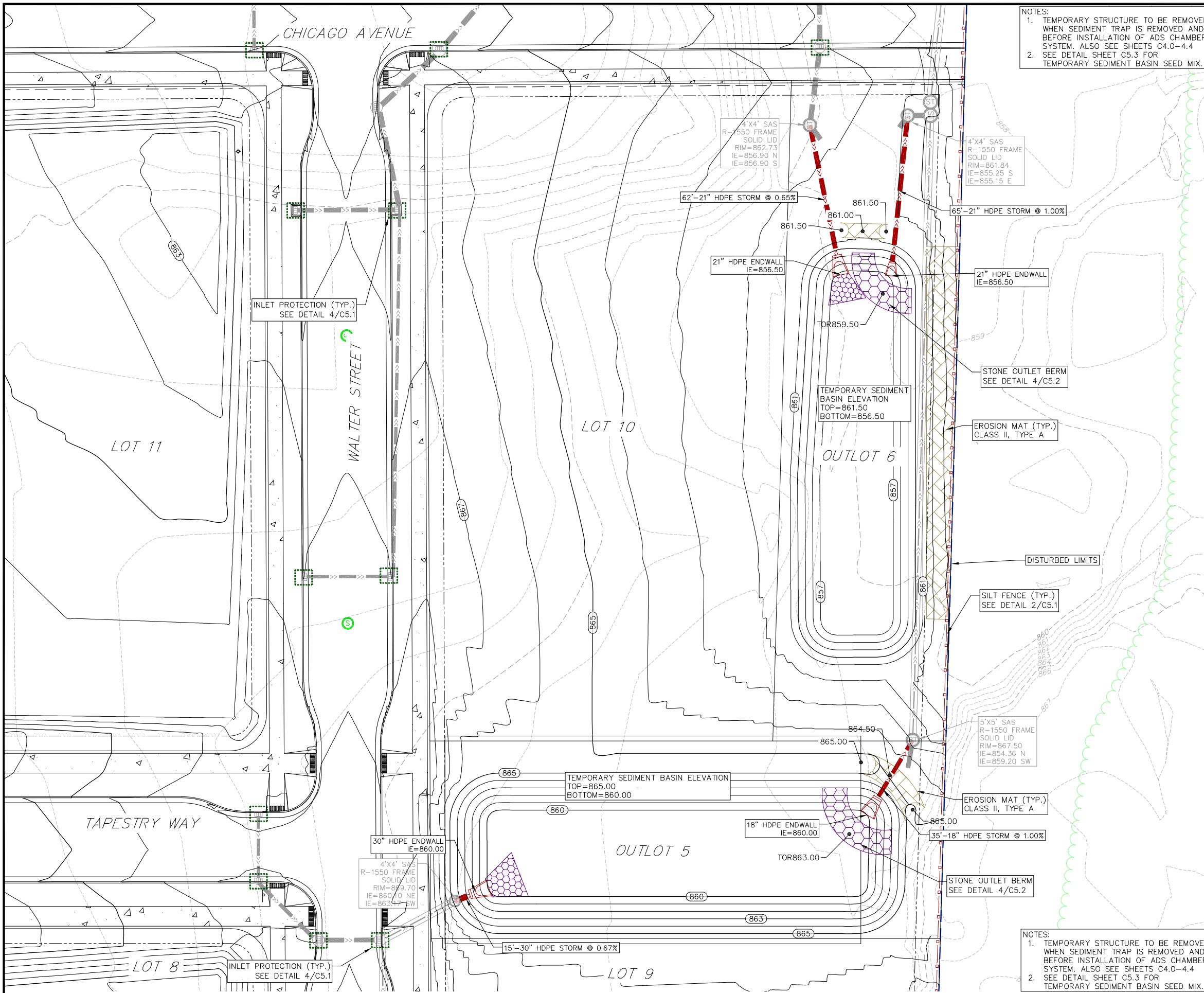
1 OUTLOT 1 - INTERIM SEDIMENT BASIN DETAIL



2 OUTLOT 2 - INTERIM SEDIMENT BASIN DETAIL

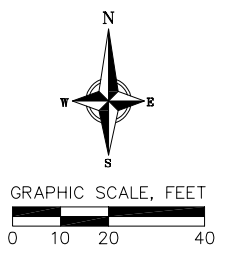
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CHECKED: RKOL
PROJECT NO.: 220031



NOTES:
 1. TEMPORARY STRUCTURE TO BE REMOVED WHEN SEDIMENT TRAP IS REMOVED AND BEFORE INSTALLATION OF ADS CHAMBER SYSTEM. ALSO SEE SHEETS C4.0-4.4
 2. SEE DETAIL SHEET C5.3 FOR TEMPORARY SEDIMENT BASIN SEED MIX.

NOTES:
 1. TEMPORARY STRUCTURE TO BE REMOVED WHEN SEDIMENT TRAP IS REMOVED AND BEFORE INSTALLATION OF ADS CHAMBER SYSTEM. ALSO SEE SHEETS C4.0-4.4
 2. SEE DETAIL SHEET C5.3 FOR TEMPORARY SEDIMENT BASIN SEED MIX.



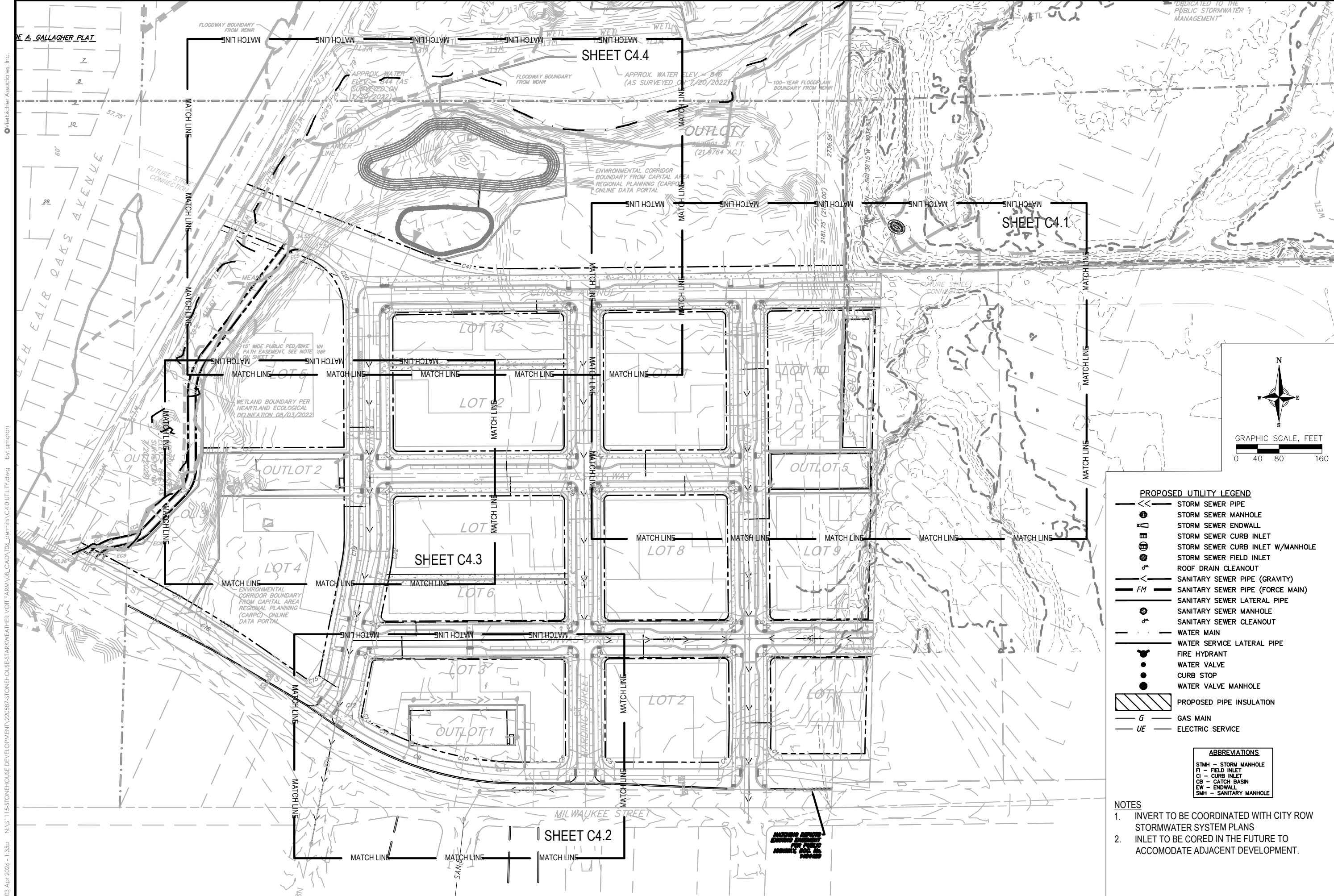
- GRADING LEGEND**
- - - 820 - - - EXISTING MAJOR CONTOURS
 - - - 818 - - - EXISTING MINOR CONTOURS
 - (820) — PROPOSED MAJOR CONTOURS
 - (818) — PROPOSED MINOR CONTOURS
 - [] — SILT FENCE
 - [] — DISTURBED LIMITS
 - [] — BERM
 - ⇒ DRAINAGE DIRECTION
 - 2.92% PROPOSED SLOPE ARROWS
 - 1048.61 EXISTING SPOT ELEVATIONS
 - 1048.61 PROPOSED SPOT ELEVATIONS
 - [] INLET PROTECTION
 - [] EROSION MAT CLASS II, TYPE A
 - [] TRACKING PAD
 - [] RIP RAP
 - [] STONE WEEPERS

Interim Grading Detail - Outlot 5 & Outlot 6

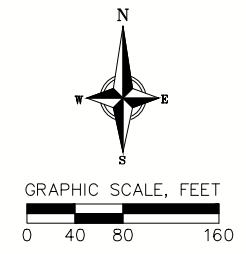
Starkweather Plat
 City of Madison
 Dane County, WI

NO.	DATE	REVISIONS	REMARKS

DATE: 04/02/2026
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03 Apr 2026 - 1:35p N:\S1115-STONHOUSE DEVELOPMENT\220587-STONHOUSE-STARKWEATHER\VOIT.FARVA.08.CAD\T06.permiss\C4.0.UTILITY.dwg by: gmoren



PROPOSED UTILITY LEGEND

	STORM SEWER PIPE
	STORM SEWER MANHOLE
	STORM SEWER ENDWALL
	STORM SEWER CURB INLET
	STORM SEWER CURB INLET W/MANHOLE
	STORM SEWER FIELD INLET
	ROOF DRAIN CLEANOUT
	SANITARY SEWER PIPE (GRAVITY)
	SANITARY SEWER PIPE (FORCE MAIN)
	SANITARY SEWER LATERAL PIPE
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	WATER MAIN
	WATER SERVICE LATERAL PIPE
	FIRE HYDRANT
	WATER VALVE
	CURB STOP
	WATER VALVE MANHOLE
	PROPOSED PIPE INSULATION
	GAS MAIN
	ELECTRIC SERVICE

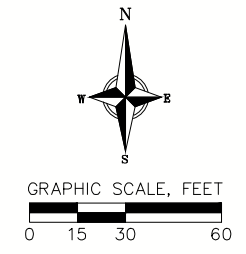
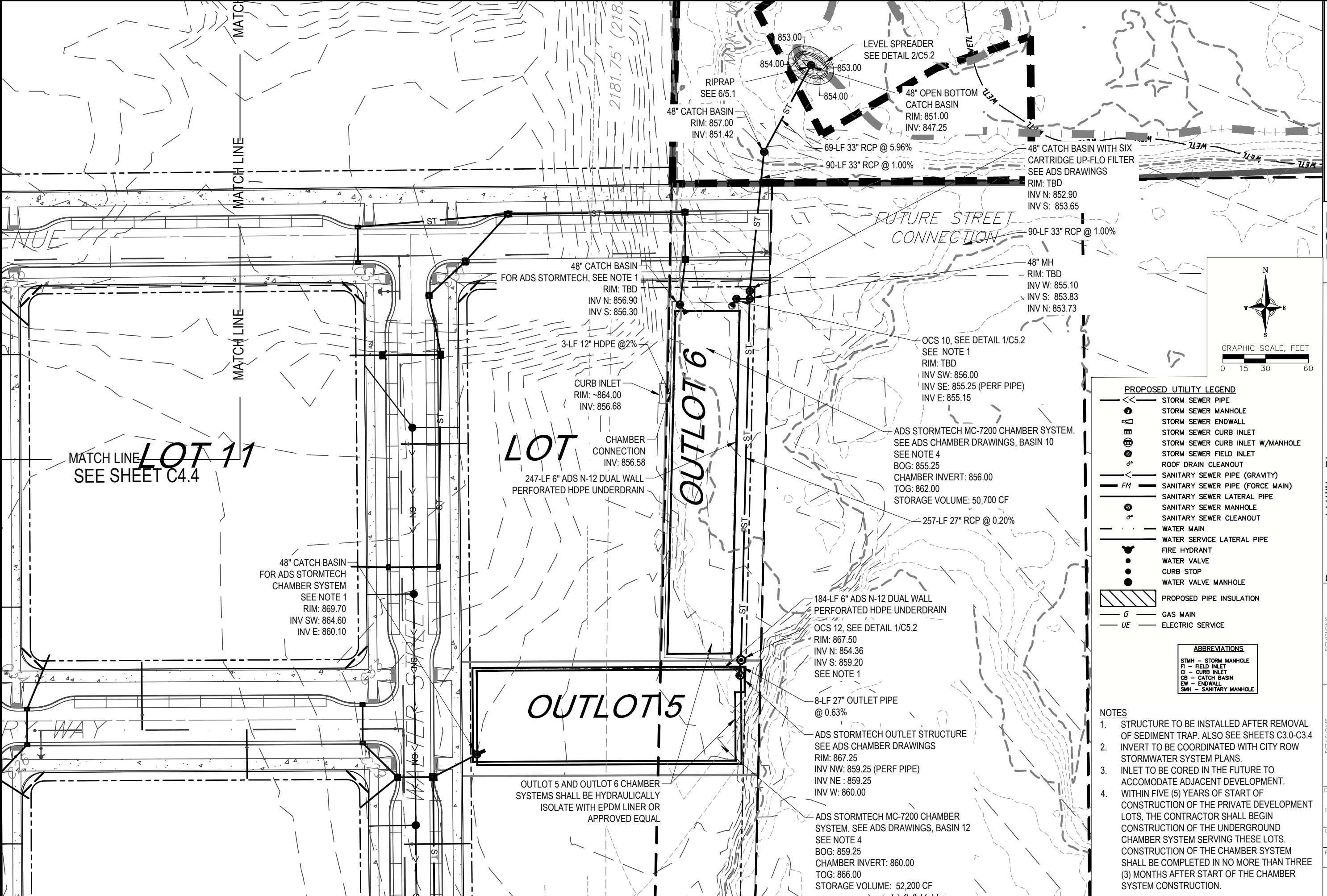
ABBREVIATIONS

SMH	-	STORM MANHOLE
FI	-	FIELD INLET
CI	-	CURB INLET
CB	-	CATCH BASIN
EW	-	ENDWALL
SMH	-	SANITARY MANHOLE

- NOTES**
- INVERT TO BE COORDINATED WITH CITY ROW STORMWATER SYSTEM PLANS
 - INLET TO BE CORED IN THE FUTURE TO ACCOMMODATE ADJACENT DEVELOPMENT.

REVISIONS	NO.	DATE	REMARKS

03 Apr 2026 - 1:41 p. N:\31115-STONEHOUSE DEVELOPMENT\220031-5-STONEHOUSE-STARWEATHER\08_CAD\106_permit\15_C4.0 UTILITY.dwg by: gmoren



PROPOSED UTILITY LEGEND

- STORM SEWER PIPE
- STORM SEWER MANHOLE
- STORM SEWER ENDWALL
- STORM SEWER CURB INLET
- STORM SEWER CURB INLET W/MANHOLE
- STORM SEWER FIELD INLET
- ROOF DRAIN CLEANOUT
- SANITARY SEWER PIPE (GRAVITY)
- SANITARY SEWER PIPE (FORCE MAIN)
- SANITARY SEWER LATERAL PIPE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER MAIN
- WATER SERVICE LATERAL PIPE
- FIRE HYDRANT
- WATER VALVE
- CURB STOP
- WATER VALVE MANHOLE
- PROPOSED PIPE INSULATION
- G GAS MAIN
- UE ELECTRIC SERVICE

ABBREVIATIONS

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- FI - FIELD INLET
- CI - CURB INLET
- CB - CATCH BASIN
- EW - ENDWALL
- SMH - SANITARY MANHOLE

- NOTES**
1. STRUCTURE TO BE INSTALLED AFTER REMOVAL OF SEDIMENT TRAP. ALSO SEE SHEETS C3.0-C3.4
 2. INVERT TO BE COORDINATED WITH CITY ROW STORMWATER SYSTEM PLANS.
 3. INLET TO BE CORED IN THE FUTURE TO ACCOMMODATE ADJACENT DEVELOPMENT.
 4. WITHIN FIVE (5) YEARS OF START OF CONSTRUCTION OF THE PRIVATE DEVELOPMENT LOTS, THE CONTRACTOR SHALL BEGIN CONSTRUCTION OF THE UNDERGROUND CHAMBER SYSTEM SERVING THESE LOTS. CONSTRUCTION OF THE CHAMBER SYSTEM SHALL BE COMPLETED IN NO MORE THAN THREE (3) MONTHS AFTER START OF THE CHAMBER SYSTEM CONSTRUCTION.

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City of Madison
Dane County, WI

REVISIONS	NO.	DATE	REMARKS

DATE
04/02/2026

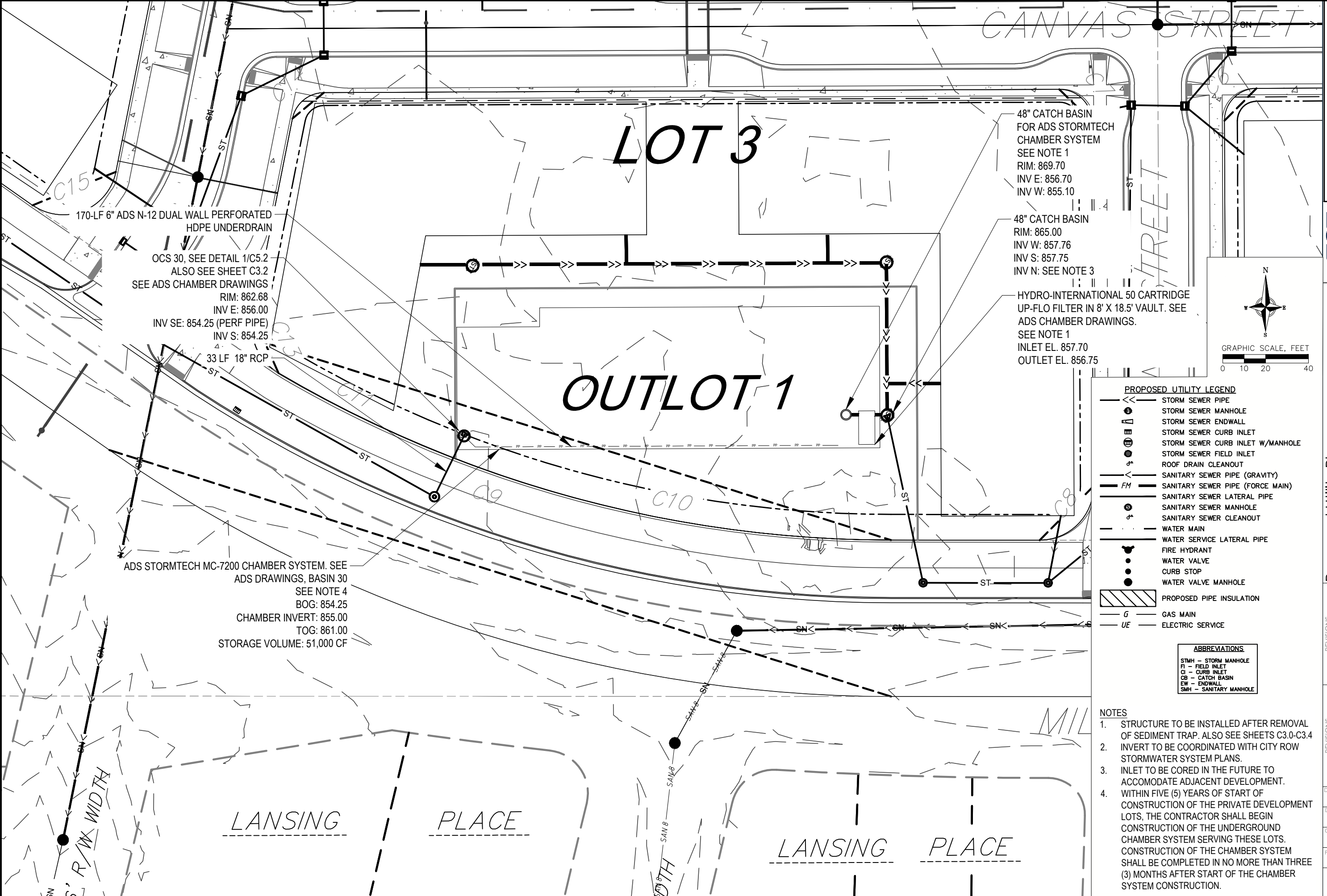
DRAFTER
GM

CHECKED
TP

PROJECT NO.
220031

C4.1

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48" CATCH BASIN
 FOR ADS STORMTECH
 CHAMBER SYSTEM
 SEE NOTE 1
 RIM: 869.70
 INV E: 856.70
 INV W: 855.10

48" CATCH BASIN
 RIM: 865.00
 INV W: 857.76
 INV S: 857.75
 INV N: SEE NOTE 3

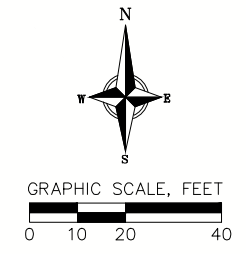
HYDRO-INTERNATIONAL 50 CARTRIDGE
 UP-FLO FILTER IN 8' X 18.5' VAULT. SEE
 ADS CHAMBER DRAWINGS.
 SEE NOTE 1
 INLET EL. 857.70
 OUTLET EL. 856.75

170-LF 6" ADS N-12 DUAL WALL PERFORATED
 HDPE UNDERDRAIN

OCS 30, SEE DETAIL 1/C5.2
 ALSO SEE SHEET C3.2
 SEE ADS CHAMBER DRAWINGS
 RIM: 862.68
 INV E: 856.00
 INV SE: 854.25 (PERF PIPE)
 INV S: 854.25

33 LF 18" RCP

ADS STORMTECH MC-7200 CHAMBER SYSTEM. SEE
 ADS DRAWINGS, BASIN 30
 SEE NOTE 4
 BOG: 854.25
 CHAMBER INVERT: 855.00
 TOG: 861.00
 STORAGE VOLUME: 51,000 CF



PROPOSED UTILITY LEGEND

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	STORM SEWER CURB INLET W/MANHOLE
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- NOTES**
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City of Madison
Dane County, WI

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CHECKED: TP

PROJECT NO.: 220031

C4.2

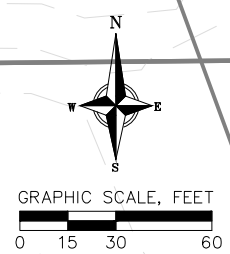
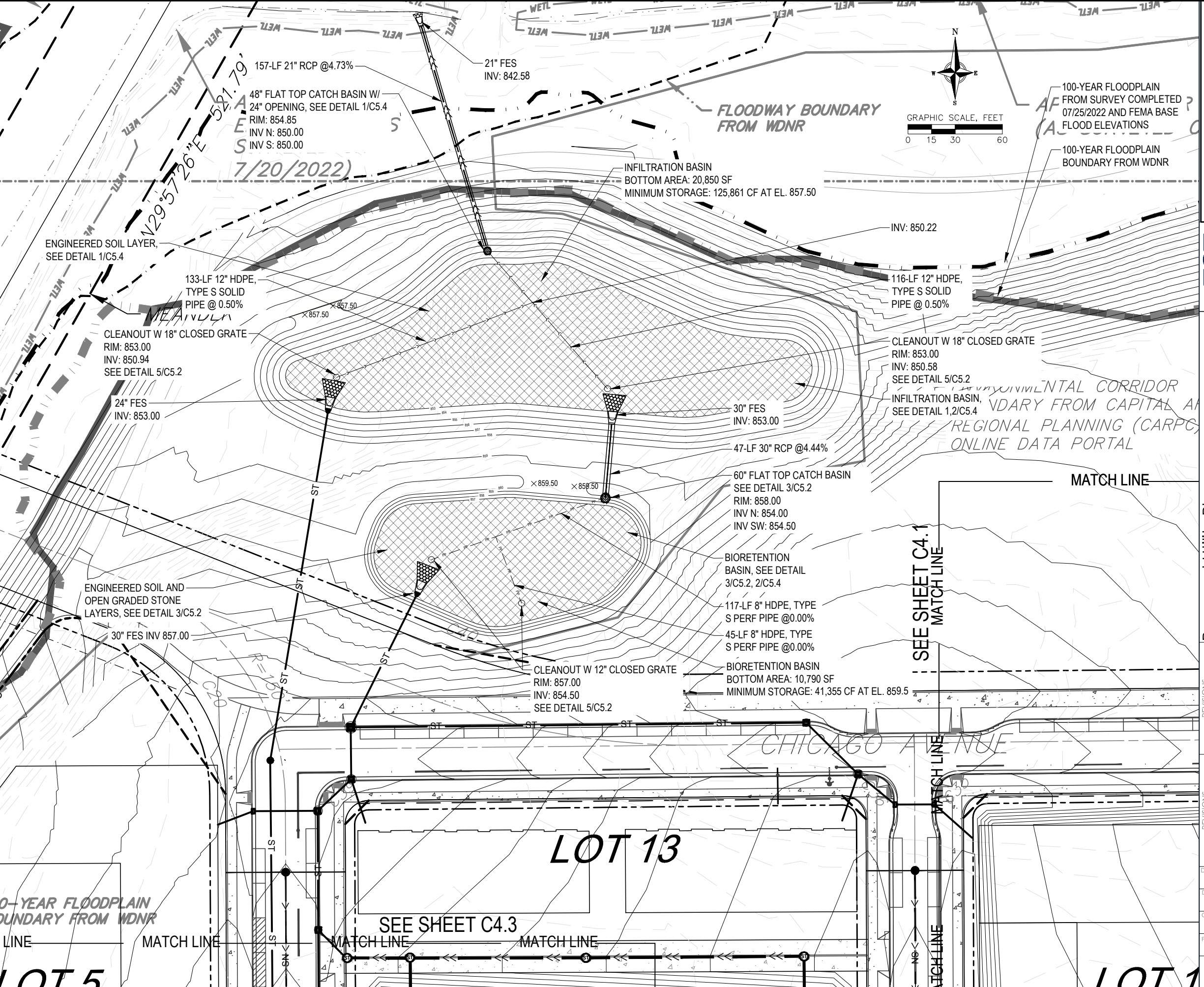
PROPOSED UTILITY LEGEND

- STORM SEWER PIPE
- STORM SEWER MANHOLE
- STORM SEWER ENDWALL
- STORM SEWER CURB INLET
- STORM SEWER CURB INLET W/MANHOLE
- STORM SEWER FIELD INLET
- ROOF DRAIN CLEANOUT
- SANITARY SEWER PIPE (GRAVITY)
- FM SANITARY SEWER PIPE (FORCE MAIN)
- SANITARY SEWER LATERAL PIPE
- SANITARY SEWER MANHOLE
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- WATER SERVICE LATERAL PIPE
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- PROPOSED PIPE INSULATION
- G GAS MAIN
- UE ELECTRIC SERVICE

ABBREVIATIONS

- STMH - STORM MANHOLE
- F - FIELD INLET
- CI - CURB INLET
- CB - CATCH BASIN
- EW - ENDWALL
- SMH - SANITARY MANHOLE

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REVISIONS	NO.	DATE	REMARKS

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CHECKED: TP
PROJECT NO.: 220031

C4.4

EROSION CONTROL MEASURES

1. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
2. CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (<http://dnr.wi.gov/runoff/stormwater/techstds.htm>) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
3. INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, INLET PROTECTION, SEDIMENT BASINS, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE CITY, DNR AND/OR COUNTY. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
5. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
6. A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF ROAD CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WisDNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
7. **STABILIZED DISTURBED GROUND:** ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25- FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARPING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 7-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.
8. INLET FILTERS ARE TO BE PLACED IN STORMWATER INLET STRUCTURES AS SOON AS THEY ARE INSTALLED. ALL PROJECT AREA STORM INLETS NEED FRAMED INLET PROTECTION IN ACCORDANCE WITH THE CITY'S STANDARD SPECIFICATION FOR PUBLIC WORKS IMPROVEMENTS. THE FILTERS SHALL BE MAINTAINED UNTIL THE SITE IS CONSIDERED STABLE.
9. TERRACES SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND MULCH. LOTS SHALL BE RESTORED WITH 6" TOPSOIL, TEMPORARY SEED, FERTILIZER AND MULCH.
10. SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING, TEMPORARY SEED SHALL BE PLACED.
11. FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
12. SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON THE DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 FEET LONG THAT SHEET FLOW TO THE ROADWAY UNLESS SOIL STABILIZERS ARE USED.
13. SEDIMENT SHALL BE CLEANED FROM STREETS AND ROADSIDE DITCHES AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.
14. ALL CONSTRUCTION ENTRANCES SHALL HAVE TEMPORARY ROAD CLOSED SIGNS THAT WILL BE IN PLACE WHEN THE ENTRANCE IS NOT IN USE AND AT THE END OF EACH DAY.
15. ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY AND WISCONSIN DNR.
16. THE CITY, WISCONSIN DNR, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.

SEEDING RATES:

TEMPORARY:

1. USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS.
2. USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED

AFTER SEPTEMBER 15.

PERMANENT:

1. USE WISCONSIN D.O.T. SEED MIX #40 AT 2 LB./1,000 S.F.

FERTILIZING RATES:

TEMPORARY AND PERMANENT:

USE WISCONSIN D.O.T. TYPE A OR B AT 7 LB./1,000 S.F.

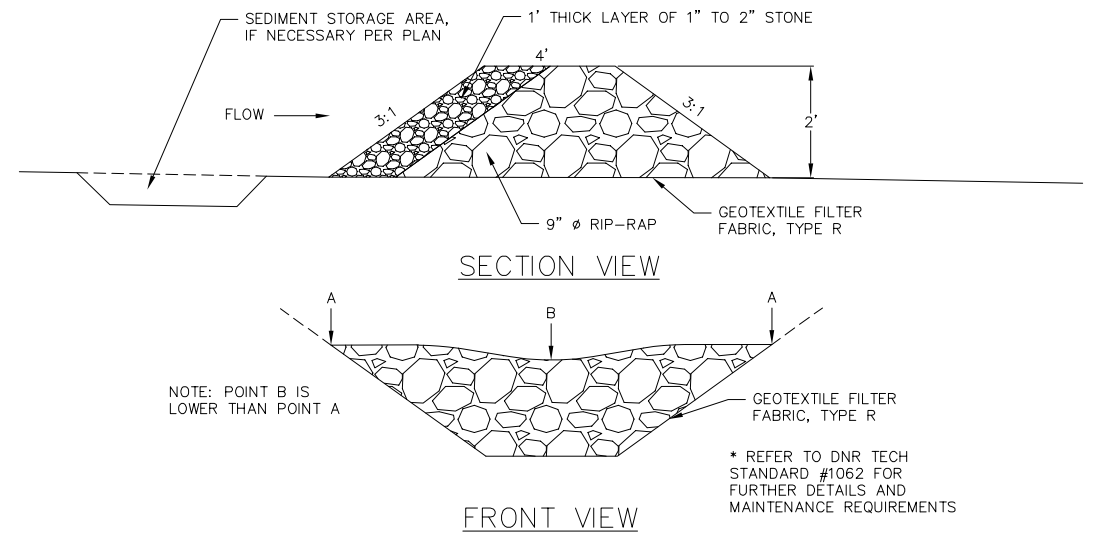
MULCHING RATES:

TEMPORARY AND PERMANENT:

USE ½" TO 1-½" STRAW OR HAY MULCH, CRIMPED PER SECTION 607.3.2.3, OR OTHER RATE AND METHOD PER SECTION 627, WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION

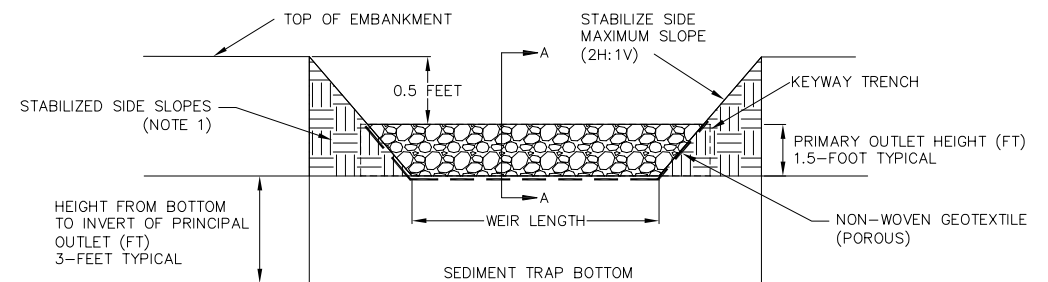
CONSTRUCTION SEQUENCE:

1. INSTALL SILT FENCE, INLET PROTECTION AND TRACKING PAD.
2. STRIP TOPSOIL.
3. INSTALL SILT FENCE AROUND TOPSOIL STOCK PILE.
4. ROUGH GRADE STREETS & LOTS TO SUBGRADE (PER PLAN)
5. CONSTRUCT TEMPORARY SEDIMENT BASINS.
6. RESTORE LOT AREAS – TOPSOIL, SEED, FERTILIZE AND MULCH.
7. CONSTRUCT TEMPORARY STONE WEEPERS AND EARTHEN BERMS.
8. CONSTRUCT UNDERGROUND UTILITIES.
9. INSTALL INLET PROTECTION IN NEW STORM SEWER STRUCTURES.
10. CONSTRUCT ROADS (STONE BASE, CURB & GUTTER, AND SIDEWALK AND ASPHALTIC PAVEMENT).
11. RESTORE TERRACES – TOPSOIL, PERMANENT SEED AND FERTILIZE.
12. CONSTRUCT STORMWATER MANAGEMENT FACILITIES AND RESTORE.
13. REMOVE TRACKING PAD, SILT FENCE AND INLET PROTECTION AFTER DISTURBED AREAS ARE RESTORED.



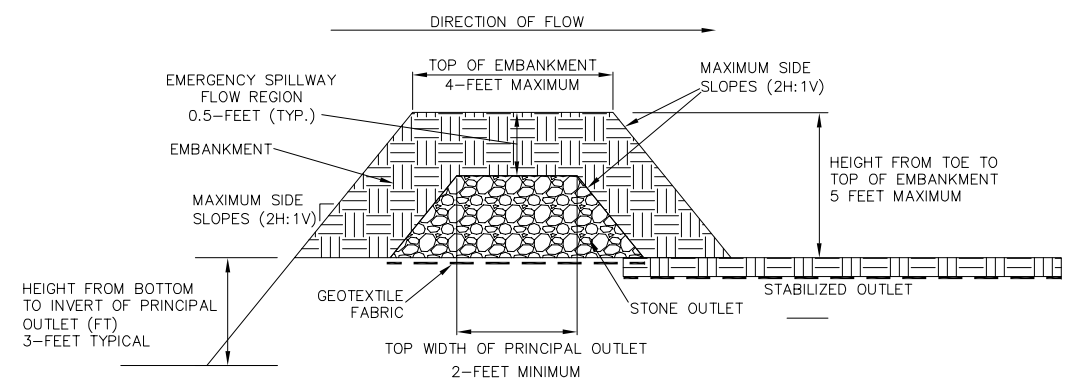
1
6.0

WEEPER
NOT TO SCALE



CROSS SECTION OF PRINCIPAL OUTLET

NOTE 1: SIDE SLOPES AND FACES OF EARTHEN EMBANKMENT AROUND OUTLET SHALL BE ARMORED WITH RIPRAP OR STABILIZED WITH EROSION MAT SUFFICIENT TO HANDLE FLOWS FROM THE 10-YEAR STORM.



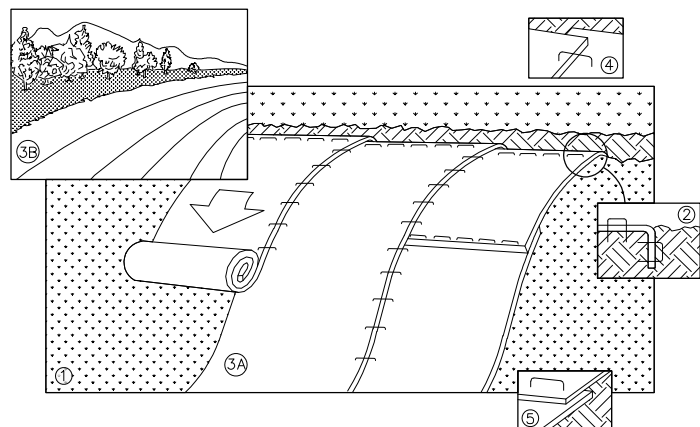
VIEW A-A OF PRINCIPAL OUTLET

2
6.0

SEDIMENT TRAP
NOT TO SCALE

REVISONS	REMARKS
NO.	DATE
NO.	DATE
NO.	DATE

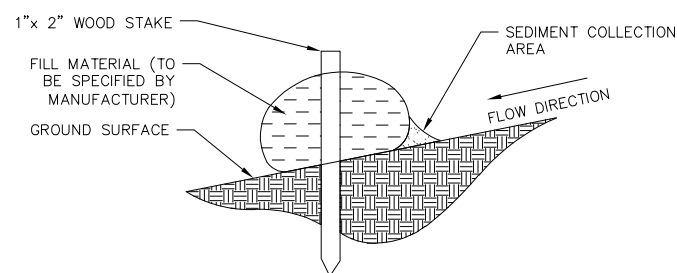
DATE	04/02/2026
DRAFTER	ZDRE/JDEL
CHECKED	RKOL
PROJECT NO.	220031



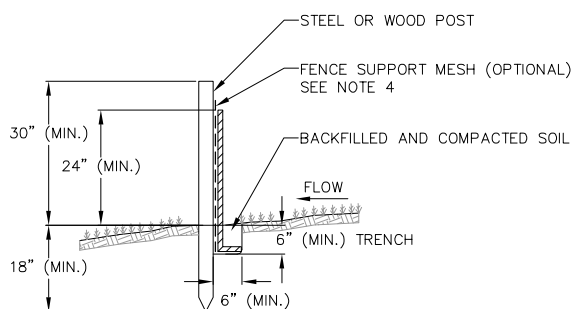
NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS <A.> DOWN, OR <B.> HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

1 EROSION MAT
6.1 NOT TO SCALE



2 SILT SOCK
6.1 NOT TO SCALE



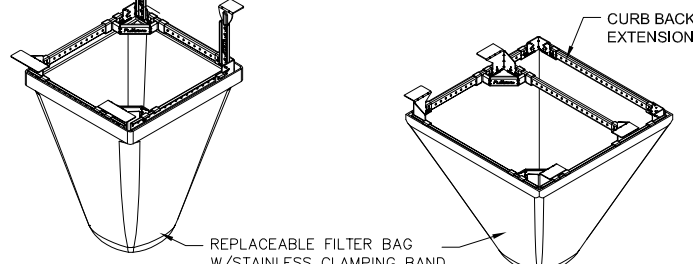
NOTES:

1. INSTALL SILT FENCE TO FOLLOW THE GROUND CONTOURS AS CLOSELY AS POSSIBLE.
2. CURVE THE SILT FENCE UP THE SLOPE TO PREVENT WATER FROM RUNNING AROUND THE ENDS.
3. POST SPACING WITH FENCE SUPPORT MESH = 10 FT. (MAX.)
POST SPACING WITHOUT FENCE SUPPORT MESH = 6 FT. (MAX.)
4. SILT FENCE SUPPORT MESH CONSISTS OF 14-GAUGE STEEL WIRE WITH A MESH SPACING OF 6 IN. X 6 IN. OR PREFABRICATED POLYMERIC MESH OF EQUIVALENT STRENGTH

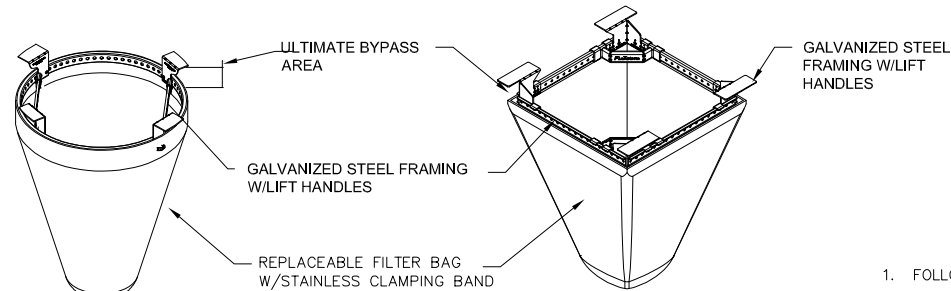
3 SILT FENCE
6.1 NOT TO SCALE

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, ANY TRAPPED MATERIAL THAT FALLS INTO THE INLET SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.



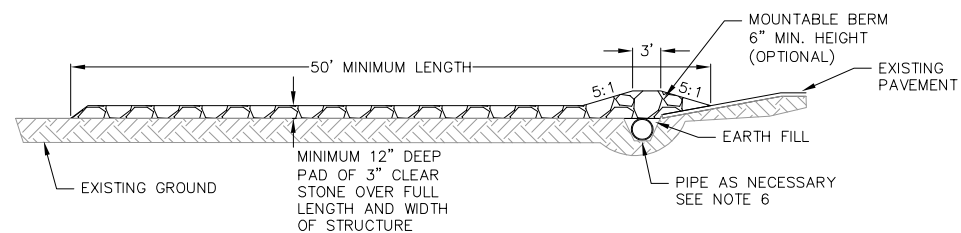
FLEXSTORM CATCH-IT INLET FILTERS FOR ROLLED CURB
FLEXSTORM CATCH-IT INLET FILTERS FOR CURB BOX OPENINGS (MAGNETIC CURB FLAP)



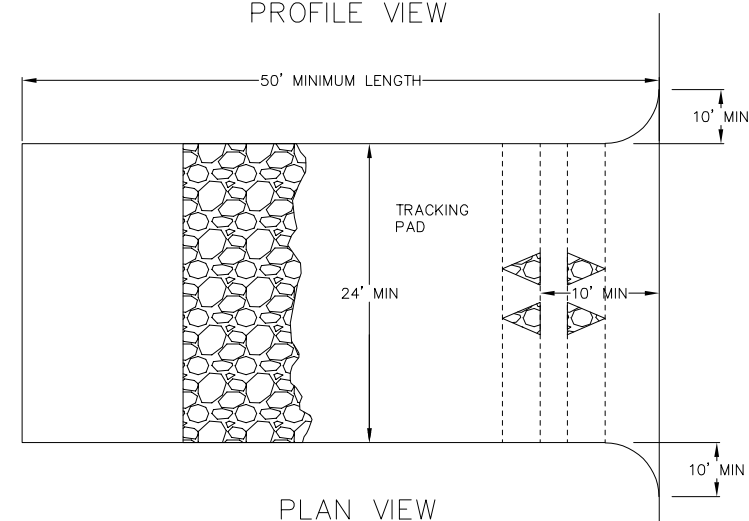
FLEXSTORM CATCH-IT INLET FILTERS FOR ROUND OPENINGS
FLEXSTORM CATCH-IT INLET FILTERS FOR SQUARE/RECTANGULAR OPENINGS

NEENAH CASTING	INLET TYPE	GRATE SIZE	OPENING SIZE	ADS P/N
1040/1642/1733	ROUND	26	24	62MRDFX
3067 W/FLAP	CURB BOX	35.25 X 17.75	33.0 X 15.0	62LCBEXTFX
3067 EXTENDED BACK	CURB BOX	35.25 X 17.75	33.0 X 15.0	62LCBEXTFX
3246A	CURB BOX	35.75 X 23.875	33.5 X 21.0	62LCBFX
3030	SQUARE/RECT	23 X 16	20.5 X 13.5	62MCBFX
3067-C	SQUARE/RECT	35.25 X 17.75	33 X 15	62LSQFX

4 FRAMED INLET PROTECTION
6.1 NOT TO SCALE



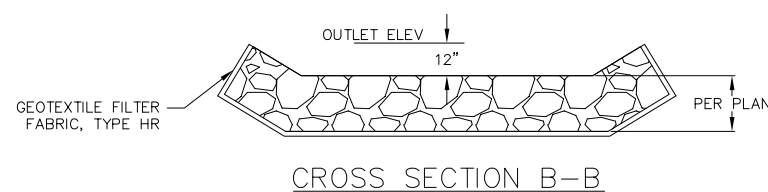
PROFILE VIEW



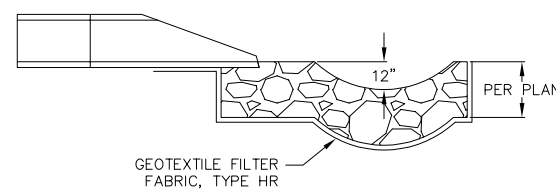
PLAN VIEW

1. FOLLOW WISCONSIN DNR TECHNICAL STANDARD 1057 FOR FURTHER DETAILS AND INSTALLATION.
2. LENGTH - MINIMUM OF 50'
3. WIDTH - 24' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
4. ON SITES WITH A HIGH GROUND WATER TABLE OR WHERE SATURATED CONDITIONS EXIST, GEOTEXTILE FABRIC SHALL BE PLACED OVER EXISTING GROUND PRIOR TO PLACING STONE. FABRIC SHALL BE WSDOT TYPE-HR GEOTEXTILE FABRIC.
5. STONE - CRUSHED 3" CLEAR STONE SHALL BE PLACED AT LEAST 12" DEEP OVER THE ENTIRE LENGTH AND WIDTH OF ENTRANCE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND MINIMUM OF 6" STONE OVER THE PIPE. PIPE SHALL BE SIZED ACCORDING TO THE DRAINAGE REQUIREMENTS. WHEN THE ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE SHALL NOT BE NECESSARY. THE MINIMUM PIPE DIAMETER SHALL BE 6". CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SAID PIPE.
7. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS AND/OR LEAVES THE CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE TRACKING PAD.

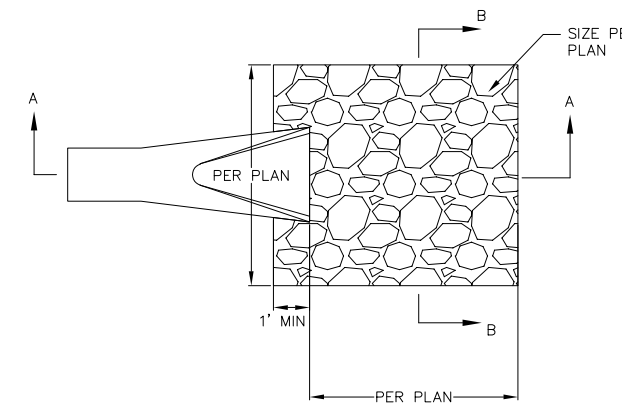
5 TRACKING PAD
6.1 NOT TO SCALE



CROSS SECTION B-B



CROSS SECTION A-A



PLAN VIEW

6 RIP-RAP OUTLET
6.1 NOT TO SCALE

REVISIONS	NO.	DATE	REMARKS

DATE: 04/02/2026
DRAFTER: ZDRE/JDEL
CHECKED: RKOL
PROJECT NO.: 220031

PERMANENT SEED MIXES FOR INFILTRATION BASIN & BIORETENTION AREA
(SEE ECOSYSTEM ESTABLISHMENT PLAN, DATED 2/27/2026 BY HEARTLAND ECOLOGICAL GROUP)

Nomenclature		Seed Metrics
Scientific Name	Common Name	Oz/Acre
Grasses, Sedges, Rushes		
<i>Andropogon gerardii</i>	Big Bluestem	4.0
<i>Bouteloua curtipendula</i>	Side oats Grama	60.0
<i>Bromus kalmii</i>	Prairie Brome	4.0
<i>Carex bicknellii</i>	Bicknell's Oval Sedge	1.0
<i>Carex brevior</i>	Fescue Sedge	1.5
<i>Carex molesta</i>	Field Oval Sedge	2.0
<i>Elymus canadensis</i>	Canada Wild Rye	36.0
<i>Elymus virginicus</i>	Virginia Wild Rye	16.0
<i>Panicum virgatum</i>	Switch Grass	2.5
<i>Schizachyrium scoparium</i>	Little Bluestem	32.0
<i>Sorghastrum nutans</i>	Indian Grass	6.0
<i>Sporobolus heterolepis</i>	Prairie Dropseed	1.0
Forbs		
<i>Achillea millefolium</i>	Yarrow	1.0
<i>Agastache foeniculum</i>	Blue Giant Hyssop	1.0
<i>Allium cernuum</i>	Nodding Onion	1.0
<i>Amorpha canescens</i>	Lead Plant	1.0
<i>Asclepias syriaca</i>	Common Milkweed	1.0
<i>Asclepias tuberosa</i>	Butterfly Weed	2.0
<i>Astragalus canadensis</i>	Canadian Milk Vetch	1.0
<i>Baptisia alba</i>	White Wild Indigo	1.0
<i>Chamaecrista fasciculata</i>	Partridge Pea	8.0
<i>Coreopsis palmata</i>	Prairie Coreopsis	1.0
<i>Dalea candida</i>	White Prairie Clover	1.0
<i>Dalea purpurea</i>	Purple Prairie Clover	4.0
<i>Drymocallis arguta</i>	Prairie Cinquefoil	0.5
<i>Echinacea pallida</i>	Pale Purple Coneflower	2.0
<i>Echinacea purpurea</i>	Purple Coneflower	2.0
<i>Eryngium yuccifolium</i>	Rattlesnake Master	2.0
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	0.5
<i>Heliopsis helianthoides</i>	False Sunflower	2.5
<i>Lespedeza capitata</i>	Round-headed Bush Clover	1.0
<i>Liatris aspera</i>	Rough Blazing Star	1.0
<i>Monarda fistulosa</i>	Wild Bergamot	1.0
<i>Oligoneuron rigidum</i>	Stiff Goldenrod	2.0
<i>Penstemon digitalis</i>	Foxglove Beardtongue	1.0
<i>Pycnanthemum virginianum</i>	Mountain Mint	0.5
<i>Ratibida pinnata</i>	Yellow Coneflower	2.0
<i>Rudbeckia hirta</i>	Black-eyed Susan	3.0
<i>Rudbeckia subtomentosa</i>	Sweet Black-eyed Susan	0.5
<i>Rudbeckia triloba</i>	Brown-eyed Susan	0.5
<i>Silphium laciniatum</i>	Compass Plant	2.0
<i>Solidago speciosa</i>	Showy Goldenrod	0.5
<i>Symphyotrichum laeve</i>	Smooth Blue Aster	1.5
<i>Symphyotrichum novae-angliae</i>	New England Aster	0.8
<i>Tradescantia ohiensis</i>	Ohio Spiderwort	2.0
<i>Verbena stricta</i>	Hoary Vervain	2.0
<i>Zizia aurea</i>	Golden Alexanders	3.5
Diversity and Density Metrics		
Plant Type	Species Richness	Total Oz/Acre
Grasses and Sedges	12	166
Forbs	35	57.3
Totals	47	223.3

Nomenclature		Seed Metrics
Scientific Name	Common Name	Oz/Acre
Grasses, Sedges, Rushes		
<i>Andropogon gerardii</i>	Big Bluestem	5.0
<i>Bromus ciliatus</i>	Fringed Brome	2.0
<i>Bromus kalmii</i>	Prairie Brome	4.0
<i>Calamagrostis canadensis</i>	Blue Joint Grass	0.5
<i>Carex bebbii</i>	Bebb's Oval Sedge	2.0
<i>Carex brevior</i>	Fescue Sedge	2.0
<i>Carex molesta</i>	Field Oval Sedge	2.0
<i>Carex vulpinoidea</i>	Brown Fox Sedge	3.0
<i>Elymus canadensis</i>	Canada Wild Rye	24.0
<i>Elymus virginicus</i>	Virginia Wild Rye	24.0
<i>Glyceria striata</i>	Fowl Manna Grass	1.0
<i>Juncus dudleyi</i>	Dudley's Rush	0.2
<i>Panicum virgatum</i>	Switch Grass	2.5
<i>Schizachyrium scoparium</i>	Little Bluestem	8.0
<i>Scirpus atrovirens</i>	Dark-green Bulrush	0.5
<i>Sorghastrum nutans</i>	Indian Grass	5.0
<i>Spartina pectinata</i>	Prairie Cord Grass	4.0
Forbs		
<i>Asclepias incarnata</i>	Swamp Milkweed	2.0
<i>Asclepias syriaca</i>	Common Milkweed	2.0
<i>Astragalus canadensis</i>	Canadian Milk Vetch	1.0
<i>Chamaecrista fasciculata</i>	Partridge Pea	4.0
<i>Eupatorium perfoliatum</i>	Boneset	0.5
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	0.5
<i>Eutrochium maculatum</i>	Joe Pye Weed	0.5
<i>Helenium autumnale</i>	Sneezeweed	0.5
<i>Heliopsis helianthoides</i>	False Sunflower	2.5
<i>Hypericum ascyron ssp. pyramidatum</i>	Great St. John's Wort	0.5
<i>Liatris pycnostachya</i>	Prairie Blazing Star	1.0
<i>Lobelia siphilitica</i>	Great Blue Lobelia	0.5
<i>Monarda fistulosa</i>	Wild Bergamot	1.5
<i>Oligoneuron riddellii</i>	Riddell's Goldenrod	0.5
<i>Oligoneuron rigidum</i>	Stiff Goldenrod	2.0
<i>Parthenium integrifolium</i>	Wild Quinine	1.0
<i>Physostegia virginiana</i>	Obedient Plant	1.0
<i>Pycnanthemum virginianum</i>	Mountain Mint	0.5
<i>Ratibida pinnata</i>	Yellow Coneflower	2.0
<i>Rudbeckia hirta</i>	Black-eyed Susan	3.0
<i>Rudbeckia subtomentosa</i>	Sweet Black-eyed Susan	0.5
<i>Rudbeckia triloba</i>	Brown-eyed Susan	0.5
<i>Silphium integrifolium</i>	Rosinweed	2.0
<i>Symphyotrichum ericoides</i>	Heath Aster	0.1
<i>Symphyotrichum laeve</i>	Smooth Blue Aster	0.5
<i>Symphyotrichum novae-angliae</i>	New England Aster	1.0
<i>Thalictrum dasycarpum</i>	Purple Meadow Rue	1.0
<i>Tradescantia ohiensis</i>	Ohio Spiderwort	1.0
<i>Verbena hastata</i>	Blue Vervain	1.0
<i>Vernonia fasciculata</i>	Common Ironweed	1.0
<i>Zizia aurea</i>	Golden Alexanders	2.5
Diversity and Density Metrics		
Plant Type	Species Richness	Total Oz/Acre
Grasses, Sedges, Rushes	17	89.7
Forbs	31	38.1
Totals	48	127.8

Nomenclature		Seed Metrics		
Scientific Name	Common Name	Oz/Acre	Seeds/ft ²	% Mix by No. Seeds
Grasses				
<i>Andropogon gerardii</i>	Big Bluestem	2.0	0.5	0.96
<i>Elymus canadensis</i>	Canada Wild Rye	2.0	0.2	0.50
<i>Elymus virginicus</i>	Virginia Wild Rye	16.0	1.5	3.23
<i>Sorghastrum nutans</i>	Indian Grass	8.0	2.2	4.62
Forbs				
<i>Helenium autumnale</i>	Sneezeweed	2.0	6.0	12.51
<i>Monarda fistulosa</i>	Wild Bergamot	2.0	3.2	6.74
<i>Pycnanthemum virginianum</i>	Mountain Mint	2.0	10.1	21.18
<i>Ratibida pinnata</i>	Yellow Coneflower	2.0	1.4	2.89
<i>Rudbeckia hirta</i>	Black-eyed Susan	2.0	4.2	8.86
<i>Veronicastrum virginicum</i>	Culver's Root	1.0	18.4	38.51

¹Seed mix is designed for 1.0 acre. This seed mix should be installed with an appropriate temporary cover crop based on timing of installation.

Nomenclature		Installation Timing ^{2,3}	Installation Rate w/ Permanent Seed (lbs/acre)
Scientific Name	Common Name		
<i>Avena sativa</i>	Common Oats	Mid-April-August	40
<i>Triticum aestivum</i>	Winter Wheat	August-April	40

¹ Seed mix is designed for 1 acre. Select appropriate species from table above based on timing of installation.
² Spring (April-May) and late summer (August-early September) preferred for annual rye, but may be established in summer or a dormant seeding as seed will overwinter.
³ September-October preferred for winter wheat but may be used as dormant seeding as seed will overwinter and germinate in the spring.

Nomenclature		Bioretention Basin Plugs ²	Infiltration Basin Plugs ²
Scientific Name	Common Name		
Grasses, Sedges, Rushes			
<i>Bouteloua curtipendula</i>	Side Oats Grama		1,100
<i>Carex molesta</i>	Field Oval Sedge	1,100	
<i>Carex vulpinoidea</i>	Brown Fox Sedge	1,100	
<i>Panicum virgatum</i>	Switchgrass		1,100
<i>Schizachyrium scoparium</i>	Little Bluestem		1,100
<i>Spartina pectinata</i>	Prairie Cord Grass	1,056	
Forbs			
<i>Allium cernuum</i>	Nodding Onion		1,100
<i>Amorpha canescens</i>	Leadplant		1,100
<i>Asclepias incarnata</i>	Swamp Milkweed	1,100	
<i>Asclepias syriaca</i>	Common Milkweed		1,100
<i>Chamaecrista fasciculata</i>	Partridge Pea		1,100
<i>Dalea purpurea</i>	Purple Prairie Clover		1,100
<i>Echinacea pallida</i>	Pale Purple Coneflower		1,100
<i>Eutrochium maculatum</i>	Joe Pye Weed	1,100	
<i>Liatris pycnostachya</i>	Prairie Blazing Star		1,100
<i>Monarda fistulosa</i>	Wild Bergamot	1,100	1,100
<i>Physostegia virginiana</i>	Obedient Plant	1,024	
<i>Pycnanthemum virginianum</i>	Mountain Mint	1,024	
<i>Ratibida pinnata</i>	Yellow Coneflower		1,100
<i>Rudbeckia hirta</i>	Black-Eyed Susan		1,100
<i>Silene regia</i>	Royal Catchfly		1,100
<i>Symphyotrichum novae-angliae</i>	New England Aster	1,100	1,100
<i>Tradescantia ohiensis</i>	Ohio Spiderwort		1,100
<i>Verbena stricta</i>	Hoary Vervain		1,100
<i>Veronicastrum virginicum</i>	Culver's Root		1,100
<i>Zizia aurea</i>	Golden Alexanders	1,100	1,056

¹Virginia Wild Rye (*Elymus virginicus*) shall be installed within the basin bottoms at a rate of 5 lb/acre with an appropriate temporary cover crop following initial grading and during the interim period while the basins serve as temporary sediment basins.

²Plant plugs shall be installed at a spacing of one foot on center within the bioretention and infiltration basin bottoms after final grading and seeding.

Plant Type	Species Richness	Number of Plugs	Number of Plugs
Grasses, Sedges, Rushes	6	3,256	3,300
Forbs	20	7,548	18,656
Totals	26	10,804	20,856

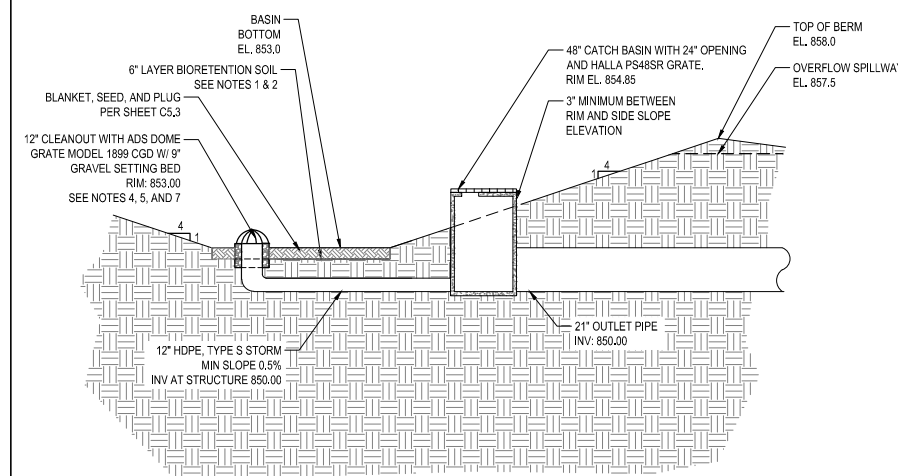
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Construction Details
Starweather Plat
City of Madison
Dane County, WI

REVISIONS	NO.	DATE	REMARKS

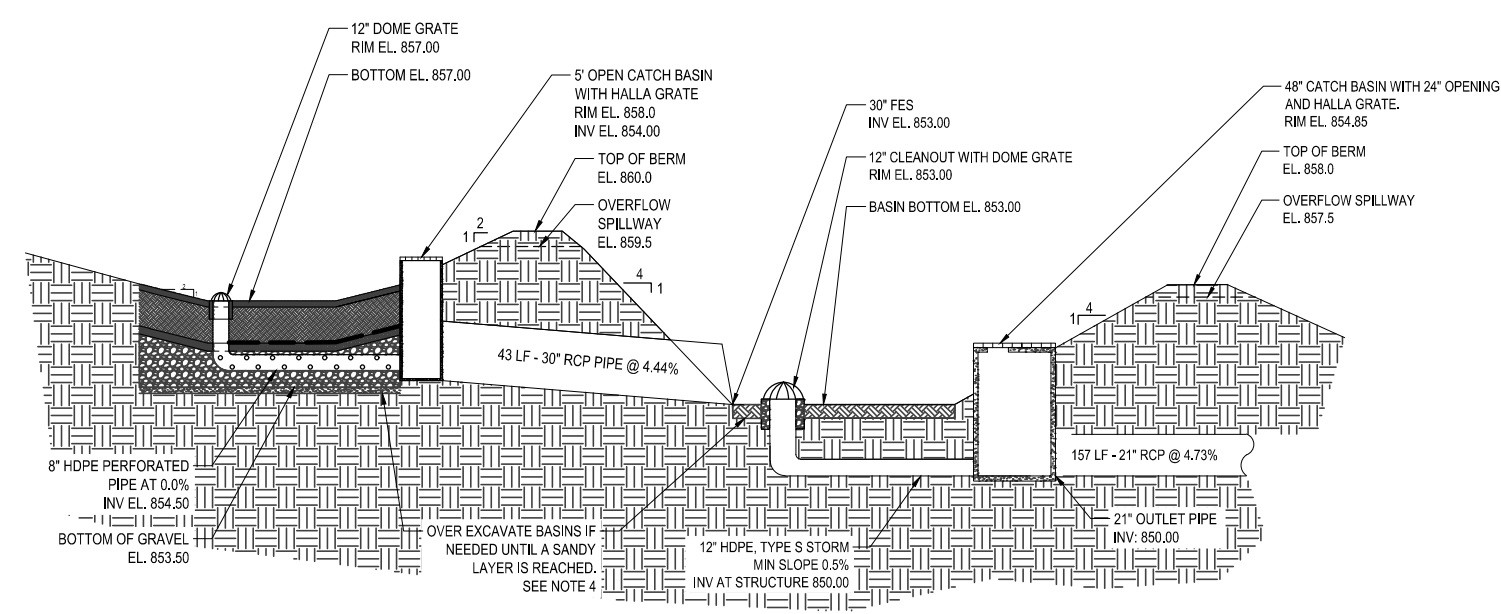
DATE: 04/03/2026
 DRAFTER: GM
 CHECKED: TP
 PROJECT NO.: 220031
C5.3



- NOTES
- ENGINEERED SOIL MIX SHALL CONFORM TO WDNR TECH STANDARD 1004.
 - SCARIFY SUBGRADE TO 2" DEPTH PRIOR TO PLACING BIORETENTION SOIL.
 - SEE GRADING PLAN, SHEET C3.0-C3.4 FOR BASIN SHAPE AND STRUCTURE LOCATIONS
 - CLEANOUT COVER TO BE OPEN GRATE DURING WINTER, OTHERWISE CLOSED.
 - INFILTRATION BASIN SHALL BE USED AS TEMPORARY DETENTION BASIN DURING CONSTRUCTION. FOR DETENTION BASIN, EXCAVATE ONLY TO BIORETENTION SOIL SURFACE ELEVATION. PROVIDE TEMPORARY SEEDING AND EROSION BLANKET. CLEANOUT AND STORM SHALL BE INSTALLED WITH OPEN COVER DURING DETENTION BASIN OPERATION.
 - AFTER THE DRAINAGE AREA IS STABILIZED, EXCAVATE TO SUBGRADE PRIOR TO INSTALLING BIORETENTION SOIL LAYER. BIORETENTION SOIL SHALL BE INSTALLED AND THE BASIN SEEDED AND PLUGGED PER THE PLANT LIST AND DETAIL THIS SHEET. THE BASIN BOTTOM SHALL BE SEEDED AND BLANKETED AND PLUGGED ON 18" CENTERS THROUGH THE BLANKET.
 - DURING PERMANENT VEGETATION ESTABLISHMENT, THE CLEANOUT COVERS MAY BE OPEN TO FACILITATE SEED GERMINATION AND ESTABLISHMENT.

1 INFILTRATION BASIN NTS

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- NOTES:
- SEE DETAIL 3, SHEET C5.2 FOR BIORETENTION BASIN DESIGN DETAILS
 - SEE DETAIL 1, SHEET C5.4 FOR INFILTRATION BASIN DESIGN DETAILS
 - SEE SHEET C4.4 GRADING AND UTILITIES
 - A CERTIFIED SOIL INSPECTOR SHALL VERIFY THAT SOIL LAYER MET AT THE BOTTOM OF BASIN IS SANDY SOIL WITH AN INFILTRATION RATE OF AT LEAST 0.50 IN/HR.

2 BIORETENTION AND INFILTRATION BASINS CROSS SECTION NTS

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Construction Details
Starkweather Plat
City of Madison
Dane County, WI

REVISIONS	NO.	DATE	REMARKS

DATE: 04/03/2026
DRAFTER: GM
CHECKED: TP
PROJECT NO.: 220031

C5.4