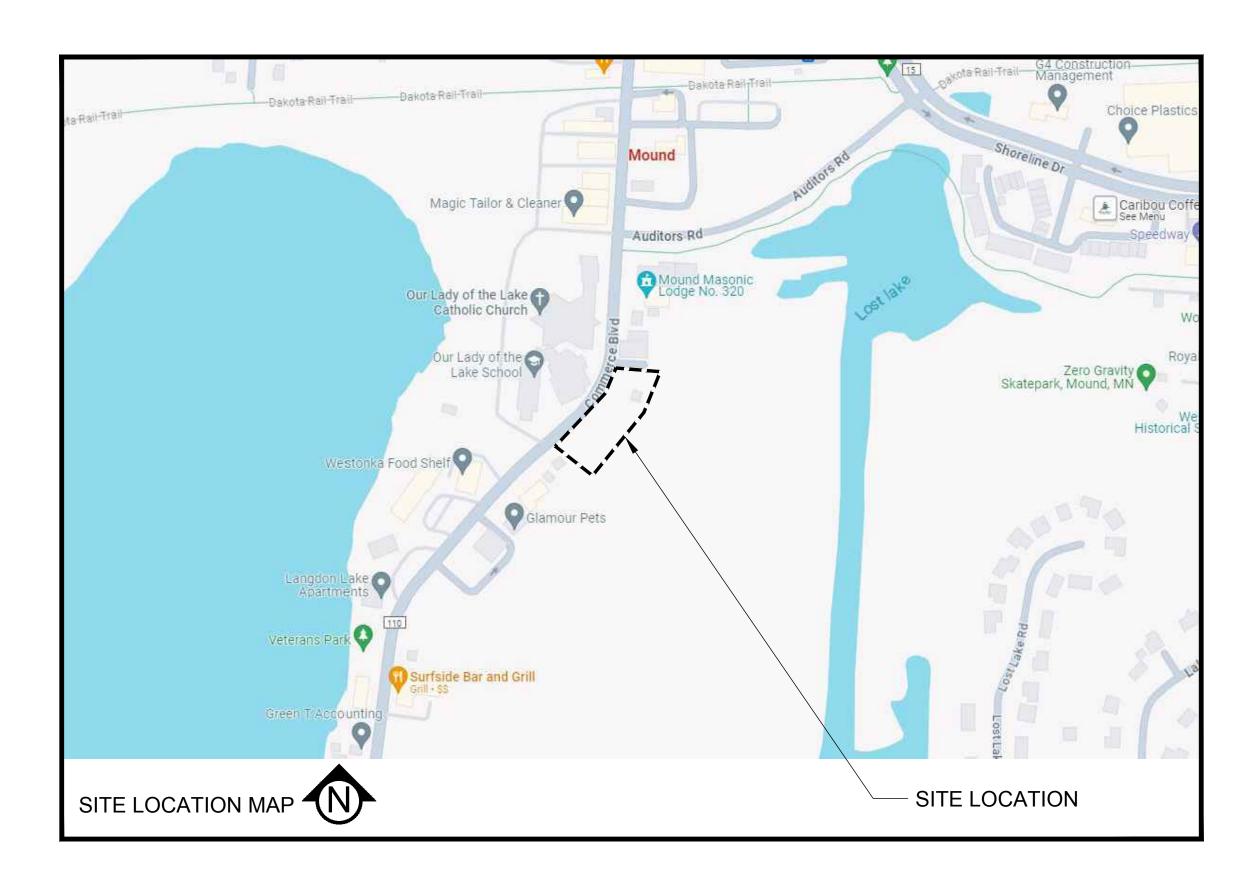
# LAKE MINNETONKA FLATS MOUND, MINNESOTA ISSUED FOR: WATERSHED RESUBMITTAL



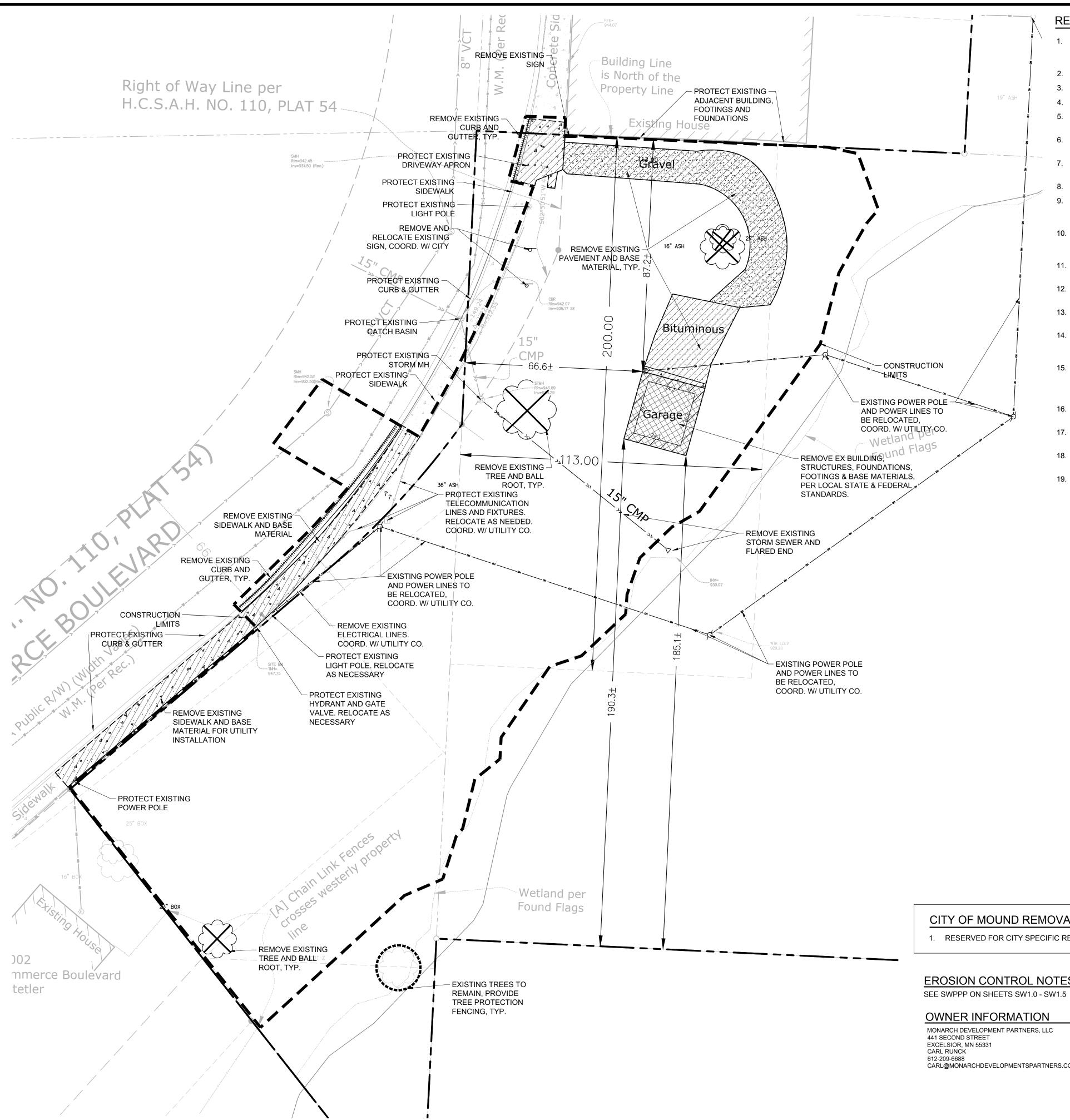
PROJECT CONTACTS				
	NAME & ADDRESS	CONTACT		
CIVIL ENGINEER	CIVIL SITE GROUP 5000 GLENWOOD AVE GOLDEN VALLEY, MN 55422	MATT PAVEK 612-615-0060 MPAVEK@CIVILSITEGROUP.COM		
LANDSCAPE ARCHITECT	CIVIL SITE GROUP 5000 GLENWOOD AVE GOLDEN VALLEY, MN 55422	ROB BINDER 612-615-0060 RBINDER@CIVILSITEGROUP.COM		
PROPERTY OWNER	MONARCH DEVELOPMENT PARTNERS, LLC 441 SECOND STREET EXCELSIOR, MN 55331	CARL RUNCK 612-209-6688 CARL@MONARCHDEVELOPMENTSPARTNERS.COM		
ARCHITECT	WHITTEN ASSOCIATES 4159 HEATHERTON PLACE MINNETONKA, MN 55345	TIM WHITTEN 612-747-0771 TIM@WHITTENASSOCIATES.COM		
SURVEYOR	CIVIL SITE GROUP 5000 GLENWOOD AVE GOLDEN VALLEY, MN 55422	RORY SYNSTELIEN 612-615-0060 RORY@CIVILSITEGROUP.COM		
GEOTECHNICAL ENGINEER	HAUGO GEOTECHNICAL SERVICES 2825 CEDAR AVENUE S MINNEAPOLIS, MN 55407	PAUL GIONFRIDDO 612-729-2959 PGIONFRIDDO@HAUGOGTS.COM		

ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



Know what's below. Call before you dig.

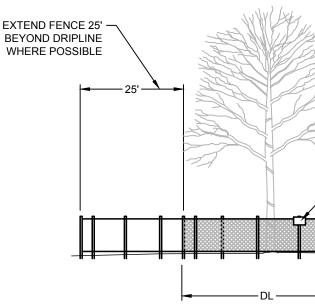
	G F Civil Enginee 5000 Golde	ring • Surveyin Architecture Glenwood Av en Valley, MN civilsitegroup.cc 612-615-00	UP ng · Landscape venue 55422
	LAKE MINNETONKA FLATS	2	OWNER MONARCH DEVELOPMENT PARTNERS, LLC 441 SECOND STREET, EXCELSIOR, MN 55331
	SPECIFI PREPARED SUPERVIS LICENSED UNDER T	GION AND THAT PROFESSION HE LAWS OF TI MINNESOTA Matthew R. Pa	EPORT WAS DER MY DIRECT TI AM A DULY AL ENGINEER HE STATE OF Wek E NO. 44263 SUMMARY RIPTION
SHEET INDEX SHEET NUMBER SHEET TITLE	09/18/24 09/25/24	CITY RESUBMITTAI	
C0.0 TITLE SHEET C1.0 REMOVALS PLAN C2.0 SITE PLAN - OVERALL C2.1 SITE PLAN C2.2 OPENSPACE EXHIBIT W1.0 75' BUFFER EXHIBIT W1.1 SHORELAND IMPACT EXHIBIT W1.2 FLOODPLAIN EXHIBIT C3.0 GRADING PLAN C4.0 UTILITY PLAN - SAN & WATER C4.1 UTILITY PLAN - STORM	PROJECT MANAGER CONTACT NUMBER DRAWN BY REVIEWED BY PROJECT NUMBER REV DATE	MATT PAVEK 612-615-0060 X 701 MD, MP, RB 23360 /ISION SUM DESC	MARY
C5.0 CIVIL DETAILS C5.1 CIVIL DETAILS C5.2 CIVIL DETAILS C5.3 CIVIL DETAILS C5.3 CIVIL DETAILS L1.0 LANDSCAPE PLAN L1.1 VEGETATED BUFFER PLAN L1.2 LANDSCAPE PLAN NOTES & DETAILS SW1.0 SWPPP - EXISTING CONDITIONS SW1.1 SWPPP - PROPOSED CONDITIONS SW1.2 SWPPP - DETAILS SW1.3 SWPPP - NARRATIVE SW1.4 SWPPP - ATTACHMENTS			.E SHEET <b>0.0</b>



## **REMOVAL NOTES:**

- DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER

- 5. EXISTING PAVEMENTS SHALL BE SAWCUT IN LOCATIONS AS SHOWN ON THE DRAWINGS OR THE NEAREST JOINT FOR PROPOSED PAVEMENT CONNECTIONS.
- REGULATIONS.
- PROPOSED PLANS.
- CONSTRUCTION SHOWN ON THE DRAWINGS.
- ADJACENT PROPERTY OWNER PRIOR TO ANY WORK.
- ENGINEER/LANDSCAPE ARCHITECT OR IN ACCORDANCE WITH THE CITY.
- APPROVED BY THE CITY PRIOR TO CONSTRUCTION.
- 14. VEHICULAR ACCESS TO THE SITE SHALL BE MAINTAINED FOR DELIVERY AND INSPECTION ACCESS DURING NORMAL OPERATING HOURS. APPROVAL BY THE CITY PRIOR TO CONSTRUCTION ACTIVITIES.
- 15. ALL TRAFFIC CONTROLS SHALL BE PROVIDED AND ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL ON UNIFORM SHALL BE PERMITTED WITHOUT APPROVAL BY THE CITY.
- REPRESENTATIVE AND THE CITY PRIOR TO CONSTRUCTION ACTIVITIES.
- IN A MANNER AS REQUIRED BY THE CITY.
- LGU.
- DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.



DRIPLINE WIDTH

FURNISH A AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIP LINE OR CONSTRUCTION LIMITS AS SHOWN ON PLAN, PRIOR TO ANY CONSTRUCTION. WHERE POSSIBLE PLACE FENCE 25' BEYOND DRIP LINE. PLACE TREE PROTECTION SIGN ON POSTS, ONE PER INDIVIDUAL TREE (FACING CONSTRUCTION ACTIVITY), OR ONE EVERY 100' LF ALONG A GROVE OR MULTI-TREE PROTECTION AREA.



## CITY OF MOUND REMOVAL NOTES:

1. RESERVED FOR CITY SPECIFIC REMOVAL NOTES.

# **EROSION CONTROL NOTES:**

CARL@MONARCHDEVELOPMENTSPARTNERS.COM

ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE

2. SEE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLAN FOR CONSTRUCTION STORM WATER MANAGEMENT PLAN. 3. REMOVAL OF MATERIALS NOTED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH MNDOT, STATE AND LOCAL REGULATIONS. 4. REMOVAL OF PRIVATE UTILITIES SHALL BE COORDINATED WITH UTILITY OWNER PRIOR TO CONSTRUCTION ACTIVITIES.

6. REMOVED MATERIALS SHALL BE DISPOSED OF TO A LEGAL OFF-SITE LOCATION AND IN ACCORDANCE WITH STATE AND LOCAL

7. ABANDON, REMOVAL, CONNECTION, AND PROTECTION NOTES SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE WITH

8. EXISTING ON-SITE FEATURES NOT NOTED FOR REMOVAL SHALL BE PROTECTED THROUGHOUT THE DURATION OF THE CONTRACT. PROPERTY LINES SHALL BE CONSIDERED GENERAL CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED ON THE DRAWINGS. WORK WITHIN THE GENERAL CONSTRUCTION LIMITS SHALL INCLUDE STAGING, DEMOLITION AND CLEAN-UP OPERATIONS AS WELL AS

10. MINOR WORK OUTSIDE OF THE GENERAL CONSTRUCTION LIMITS SHALL BE ALLOWED AS SHOWN ON THE PLAN AND PER CITY REQUIREMENTS. FOR ANY WORK ON ADJACENT PRIVATE PROPERTY, THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE

11. DAMAGE BEYOND THE PROPERTY LIMITS CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED IN A MANNER APPROVED BY THE

12. PROPOSED WORK (BUILDING AND CIVIL) SHALL NOT DISTURB EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON THE DRAWINGS AND

13. SITE SECURITY MAY BE NECESSARY AND PROVIDED IN A MANNER TO PROHIBIT VANDALISM, AND THEFT, DURING AND AFTER NORMAL WORK HOURS, THROUGHOUT THE DURATION OF THE CONTRACT. SECURITY MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY.

AT NO POINT THROUGHOUT THE DURATION OF THE CONTRACT SHALL CIRCULATION OF ADJACENT STREETS BE BLOCKED WITHOUT

TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CITY. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, SIGNAGE, BARRICADES, FLASHERS, AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES. NO ROAD CLOSURES

16. SHORING FOR BUILDING EXCAVATION MAY BE USED AT THE DISCRETION OF THE CONTRACTOR AND AS APPROVED BY THE OWNERS

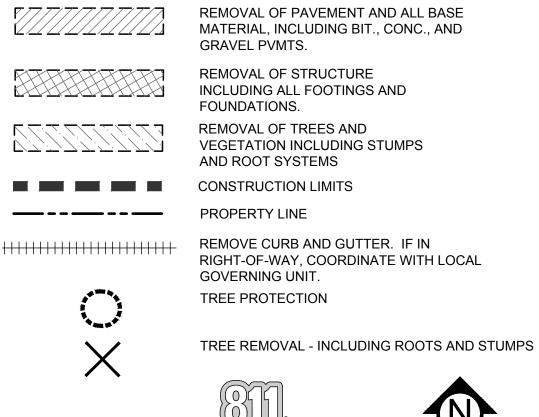
17. STAGING, DEMOLITION, AND CLEAN-UP AREAS SHALL BE WITHIN THE PROPERTY LIMITS AS SHOWN ON THE DRAWINGS AND MAINTAINED

18. ALL EXISTING SITE TRAFFIC/REGULATORY SIGNAGE TO BE INVENTORIED AND IF REMOVED FOR CONSTRUCTION SHALL BE RETURNED TO

19. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE

TREE DRIPLINE, OR CONSTRUCTION LIMITS
- TREE PROTECTION SIGN, TYP
- POSTS AND FENCING
<i></i>

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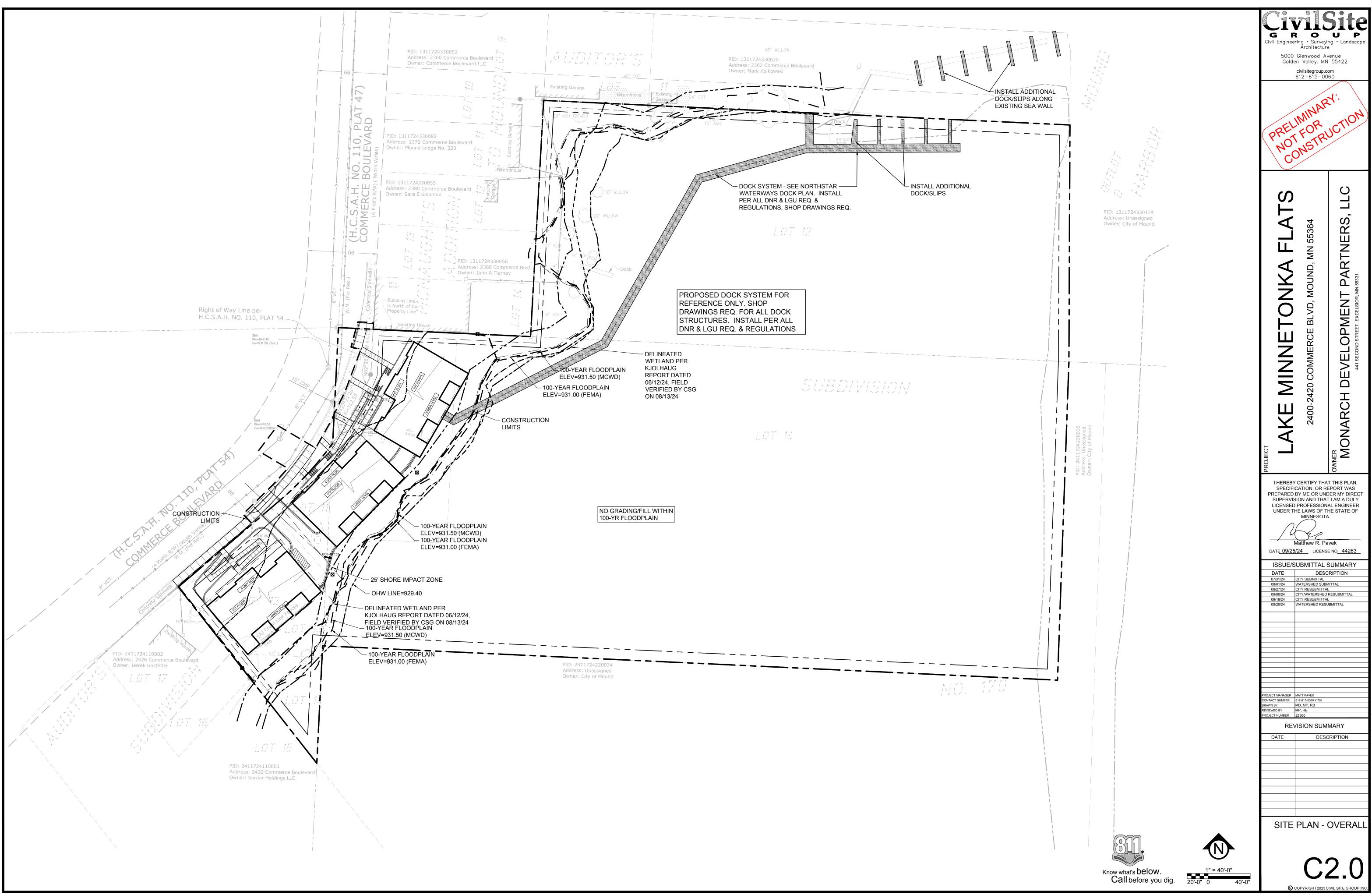


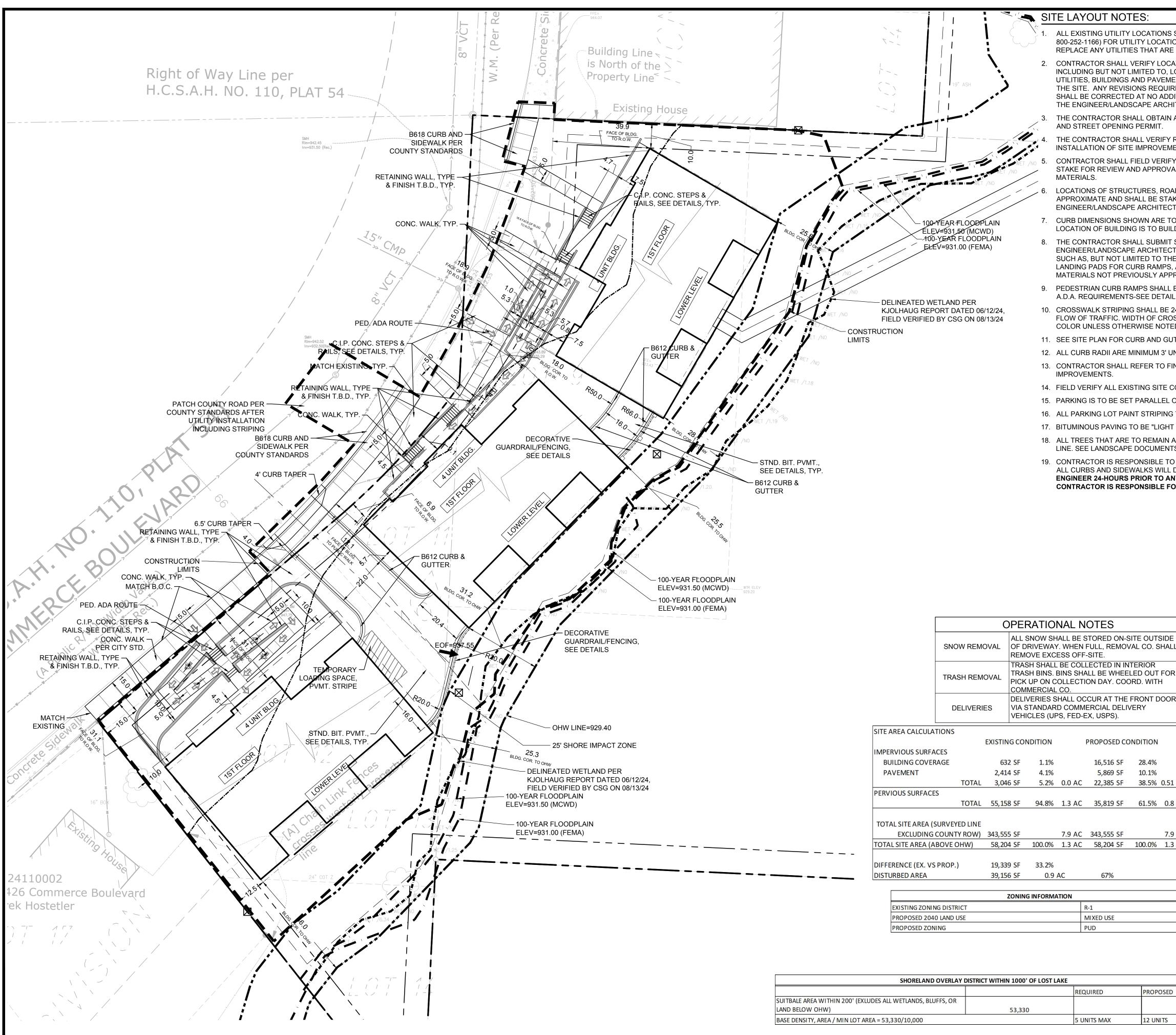
Know what's **below**.

Call before you dig.

5000 Gold	civilsitegroup.ca	venue 55422 om
LAKE MINNETONKA FLATS	2400-2420 COMMERCE BLVD, MOUND, MN 55364	MONARCH DEVELOPMENT PARTNERS, LLC 441 Second Street, excelsior, MN 55331
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I HEREBY SPECIF PREPARED SUPERVIS LICENSEE UNDER T	SION AND THAT D PROFESSION HE LAWS OF TI MINNESOTA Matthew R. Pa	O T THIS PLAN, EPORT WAS DER MY DIRECT T I AM A DULY AL ENGINEER HE STATE OF X.
I HEREBY SPECIF PREPARED SUPERVIS LICENSEE UNDER T	ICATION, OR RE BY ME OR UNE SION AND THAT O PROFESSION, HE LAWS OF TI MINNESOTA MAINNESOTA Matthew R. Pa 5/24 LICENSI	O T THIS PLAN, EPORT WAS DER MY DIRECT T I AM A DULY AL ENGINEER HE STATE OF X. Vek E NO. 44263 SUMMARY RIPTION
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#### SHORELAND OVERLAY DISTRICT WITHIN 1000' OF LOST LAKE REQUIRED PROPOSED **5 UNITS MAX** 12 UNITS

## SITE LAYOUT NOTES:

- 800-252-1166) FOR UTILITY LOCATIONS, 48 REPLACE ANY UTILITIES THAT ARE DAMAG
- CONTRACTOR SHALL VERIFY LOCATIONS INCLUDING BUT NOT LIMITED TO, LOCATIO UTILITIES, BUILDINGS AND PAVEMENTS. C THE SITE. ANY REVISIONS REQUIRED AFT SHALL BE CORRECTED AT NO ADDITIONAL THE ENGINEER/LANDSCAPE ARCHITECT PR

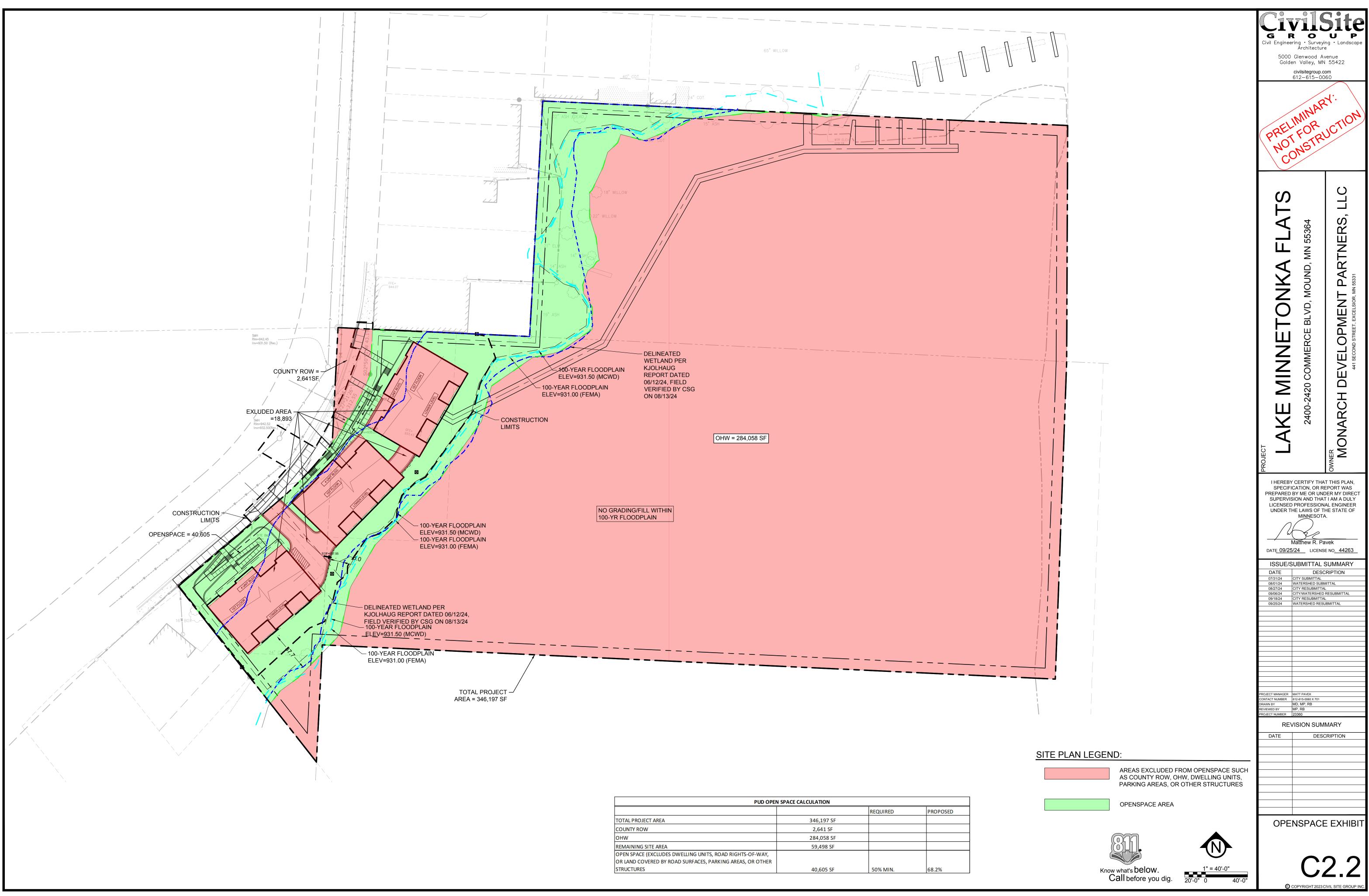
- CONTRACTOR SHALL FIELD VERIFY COORD STAKE FOR REVIEW AND APPROVAL BY TH MATERIALS.
- LOCATIONS OF STRUCTURES, ROADWAY F APPROXIMATE AND SHALL BE STAKED IN 1 ENGINEER/LANDSCAPE ARCHITECT.
- 7. CURB DIMENSIONS SHOWN ARE TO FACE LOCATION OF BUILDING IS TO BUILDING FC
- 8. THE CONTRACTOR SHALL SUBMIT SHOP D ENGINEER/LANDSCAPE ARCHITECT PRIOR SUCH AS, BUT NOT LIMITED TO THE FOLLO LANDING PADS FOR CURB RAMPS, AND LIG MATERIALS NOT PREVIOUSLY APPROVED.
- 9. PEDESTRIAN CURB RAMPS SHALL BE CONS A.D.A. REQUIREMENTS-SEE DETAIL.
- 10. CROSSWALK STRIPING SHALL BE 24" WIDE FLOW OF TRAFFIC. WIDTH OF CROSSWALK COLOR UNLESS OTHERWISE NOTED OR RE
- 11. SEE SITE PLAN FOR CURB AND GUTTER TY
- 12. ALL CURB RADII ARE MINIMUM 3' UNLESS C
- 13. CONTRACTOR SHALL REFER TO FINAL PLAT IMPROVEMENTS.
- 14. FIELD VERIFY ALL EXISTING SITE CONDITIO
- 15. PARKING IS TO BE SET PARALLEL OR PERP
- 16. ALL PARKING LOT PAINT STRIPING TO BE V
- 17. BITUMINOUS PAVING TO BE "LIGHT DUTY"
- 18. ALL TREES THAT ARE TO REMAIN ARE TO LINE. SEE LANDSCAPE DOCUMENTS.
- 19. CONTRACTOR IS RESPONSIBLE TO INSTAL ALL CURBS AND SIDEWALKS WILL DRAIN P **ENGINEER 24-HOURS PRIOR TO ANY CURB** CONTRACTOR IS RESPONSIBLE FOR ANY

	SNOW REMO		OF DRIVEWA		FULL, REMOV -SITE.	/AL CO. S	HALL
	TRASH REM		TRASH BINS.	BINS SHA	LECTED IN IN ALL BE WHEE ON DAY. COC	LED OUT	
	DELIVERII			RD COMM	CUR AT THE ERCIAL DELINEX, USPS).		OOR
SITE AREA CALCULA	TIONS						
		EXISTIN	G CONDITION		PROPOSED CC	NDITION	
IMPERVIOUS SURFA	ACES						
BUILDING COVER	RAGE	632	SF 1.1%		16,516 SF	28.4%	
PAVEMENT		2,414	SF 4.1%		5,869 SF	10.1%	
	TOTAL	3,046	SF 5.2%	0.0 AC	22,385 SF	38.5%	0.51 AC
PERVIOUS SURFACE	S						
	TOTAL	55,158	SF 94.8%	1.3 AC	35,819 SF	61.5%	0.8 AC
TOTAL SITE AREA (S	SURVEYED LINE						
EXCLUDING	COUNTY ROW)	343,555	SF	7.9 AC	343,555 SF		7.9 AC
TOTAL SITE AREA (A	BOVE OHW)	58,204	SF 100.0%	1.3 AC	58,204 SF	100.0%	1.3 AC

39,156 SF 0.9 AC 67%

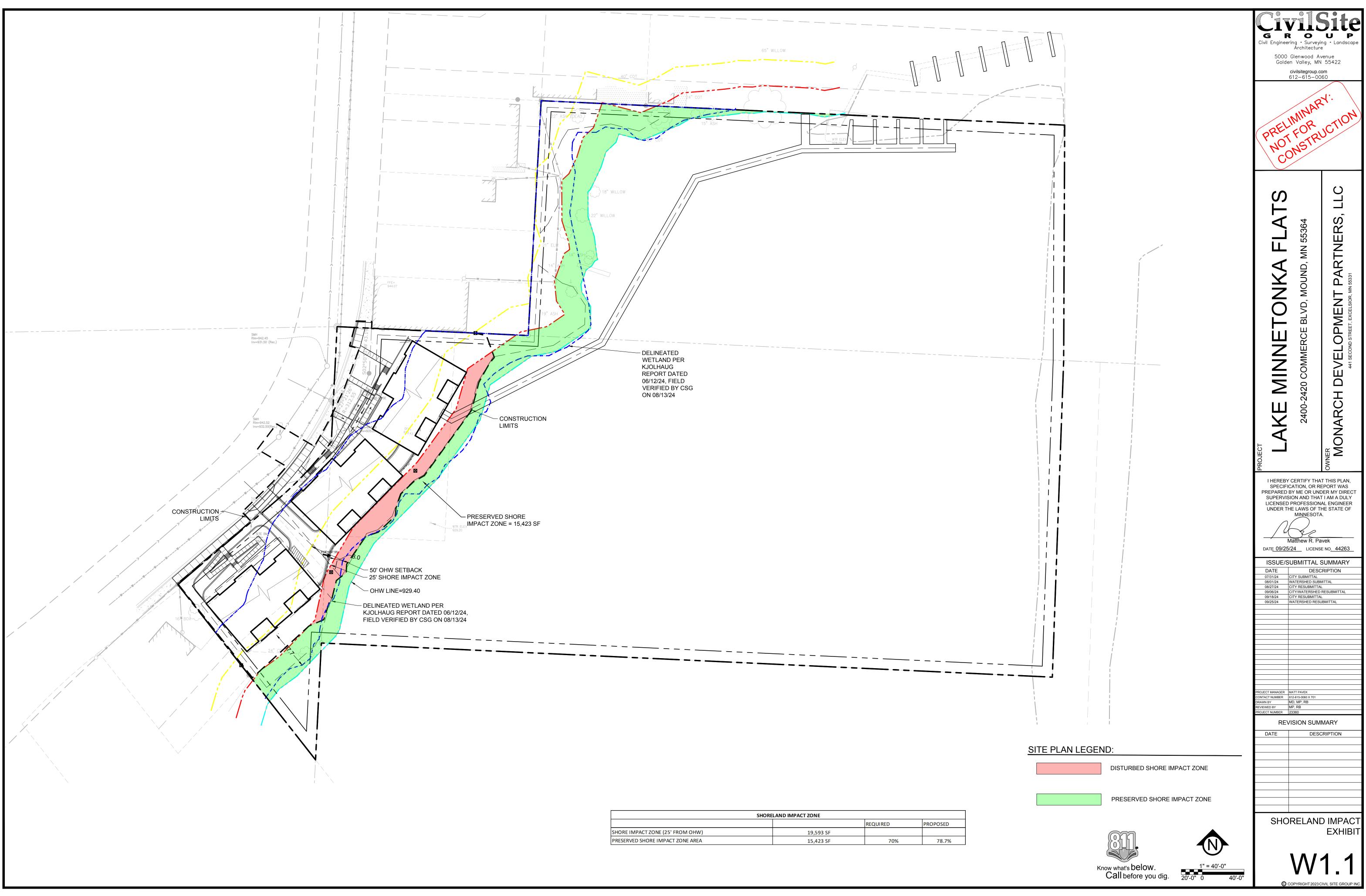
ZONING INFORMATION	
EXISTING ZONING DISTRICT	R-1
PROPOSED 2040 LAND USE	MIXED USE
PROPOSED ZONING	PUD

TE LATOUT NOTES.				Site
	IOURS PRIOR TO CONSTRUC	T "GOPHER STATE ONE CALL" (651-454-0002 OR TION. THE CONTRACTOR SHALL REPAIR OR T NO COST TO THE OWNER.	G R O Civil Engineering • Survey Architectu	
INCLUDING BUT NOT LIMITED TO, LOCATION UTILITIES, BUILDINGS AND PAVEMENTS. CC THE SITE. ANY REVISIONS REQUIRED AFTE SHALL BE CORRECTED AT NO ADDITIONAL (	IS OF EXISTING AND PROPOS INTRACTOR IS RESPONSIBLE R COMMENCEMENT OF CONS COST TO OWNER. ADJUSTME	MENTS PRIOR TO BEGINNING CONSTRUCTION, SED PROPERTY LINES, EASEMENTS, SETBACKS, FOR FINAL LOCATIONS OF ALL ELEMENTS FOR STRUCTION, DUE TO LOCATIONAL ADJUSTMENTS NTS TO THE LAYOUT SHALL BE APPROVED BY	5000 Glenwood A Golden Valley, M civilsitegroup. 612-615-0	N 55422 com
		TERIALS. STAKE LAYOUT FOR APPROVAL. CONSTRUCTION, INCLUDING A RIGHT-OF-WAY		271.
AND STREET OPENING PERMIT. THE CONTRACTOR SHALL VERIFY RECOMM		EO TECHNICAL REPORT PRIOR TO	PRELIMINAL	TION
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	TRUCTED WITH TRUNCATED	DOME LANDING AREAS IN ACCORDANCE WITH		RTNE
CROSSWALK STRIPING SHALL BE 24" WIDE V FLOW OF TRAFFIC. WIDTH OF CROSSWALK COLOR UNLESS OTHERWISE NOTED OR REG	SHALL BE 5' WIDE. ALL OTHER	R PAVEMENT MARKINGS SHALL BE WHITE IN	Ś Ś	<b>PA</b> 55331
SEE SITE PLAN FOR CURB AND GUTTER TYP ALL CURB RADII ARE MINIMUM 3' UNLESS O		YPES-SEE DETAIL.	D N NOU	<b>AENT</b> excelsior, MN
CONTRACTOR SHALL REFER TO FINAL PLAT IMPROVEMENTS.	FOR LOT BOUNDARIES, NUM	IBERS, AREAS AND DIMENSIONS PRIOR TO SITE		
FIELD VERIFY ALL EXISTING SITE CONDITION			. Ш	DD STREE
PARKING IS TO BE SET PARALLEL OR PERPE ALL PARKING LOT PAINT STRIPING TO BE W		LDING UNLESS NOTED OTHERWISE.		ELC second
		SEE DETAIL SHEETS FOR PAVEMENT SECTIONS. E WITH A CONSTRUCTION FENCE AT THE DRIP	MINNE 420 COMMERC	DEV
LINE. SEE LANDSCAPE DOCUMENTS. CONTRACTOR IS RESPONSIBLE TO INSTALL	ANY SIDEWALK AND CURBIN	IG PER DESIGN PLAN. CONTRACTOR TO VERIFY		
ENGINEER 24-HOURS PRIOR TO ANY CURB	AND/OR SIDEWALK INSTALL	NS. CONTRACTOR MUST CONTACT THE CIVIL ATION TO REVIEW AND INSPECT CURB STAKES. EMENT IF THIS PROCEDURE IS NOT FOLLOWED.	<b>AE M</b> 2400-2420	ONARCH
	CITY OF MOU	ND SITE SPECIFIC NOTES:	Ì ₹ ï	- NC
	1. RESERVED FOR	CITY SPECIFIC SITE NOTES.		OWNER
			РКС	MO
	OWNER INFORM MONARCH DEVELOPMENT P 441 SECOND STREET		I HEREBY CERTIFY TH. SPECIFICATION, OR F PREPARED BY ME OR UN	REPORT WAS IDER MY DIRECT
	EXCELSIOR, MN 55331 CARL RUNCK 612-209-6688		SUPERVISION AND THA LICENSED PROFESSION UNDER THE LAWS OF MINNESOT	NAL ENGINEER THE STATE OF
ONAL NOTES	CARL@MONARCHDEVELOP	MENTSPARTNERS.COM		· <b>A</b> .
SHALL BE STORED ON-SITE OUTSIDE AY. WHEN FULL, REMOVAL CO. SHALL			Matthew R. P DATE <u>09/25/24</u> LICEN	
CESS OFF-SITE.			ISSUE/SUBMITTAL	
BINS SHALL BE WHEELED OUT FOR COLLECTION DAY. COORD. WITH			DATE DES 07/31/24 CITY SUBMITTAL 08/01/24 WATERSHED SUB 08/27/24 CITY RESUBMITT	
AL CO. SHALL OCCUR AT THE FRONT DOOR ARD COMMERCIAL DELIVERY	SITE PLAN LEGE	ND:	09/06/24 CITY/WATERSHE 09/18/24 CITY RESUBMITT 09/25/24 WATERSHED RES	D RESUBMITTAL
JPS, FED-EX, USPS).				
PROPOSED CONDITION		APPLICABLE). SEE GEOTECHNICAL REPORT FOR AGGREGATE BASE & WEAR COURSE DEPTH, SEE DETAIL.		
6 16,516 SF 28.4% 6 5,869 SF 10.1%		ACCESSIBILITY ROUTE ARROW (IF		
6 0.0 AC 22,385 SF 38.5% 0.51 AC		APPLICABLE) DO NOT PAINT.		
6 1.3 AC 35,819 SF 61.5% 0.8 AC		CONCRETE PAVEMENT (IF APPLICABLE) AS SPECIFIED (PAD OR WALK) SEE	PROJECT MANAGER MATT PAVEK	
7.9 AC 343,555 SF 7.9 AC		GEOTECHNICAL REPORT FOR AGGREGATE BASE & CONCRETE DEPTHS, WITHIN ROW SEE CITY DETAIL, WITHIN PRIVATE	CONTACT NUMBER 612-615-0060 X 701 DRAWN BY MD, MP, RB REVIEWED BY MP, RB PROJECT NUMBER 23360	
6 1.3 AC 58,204 SF 100.0% 1.3 AC		PROPERTY SEE CSG DETAIL PROPERTY LINE	REVISION SUM	
67%		CONSTRUCTION LIMITS	DATE DES	SCRIPTION
ΜΑΤΙΟΝ	ТО	CURB AND GUTTER-SEE NOTES (T.O.) TIP OUT GUTTER WHERE APPLICABLE-SEE PLAN		
R-1 MIXED USE		SIGN AND POST ASSEMBLY. SHOP DRAWINGS		
PUD	ß	REQUIRED. HC = ACCESSIBLE SIGN		
		NP = NO PARKING FIRE LANE ST = STOP CP = COMPACT CAR PARKING ONLY		
T LAKE				SITE PLAN
REQUIRED PROPOSED	(			<b>~ ^</b>
5 UNITS MAX 12 UNITS		w what's below. 1" = 20'-0"		2.1
		Call before you dig. 10'-0" 0 20'-0"		CIVIL SITE GROUP INC.

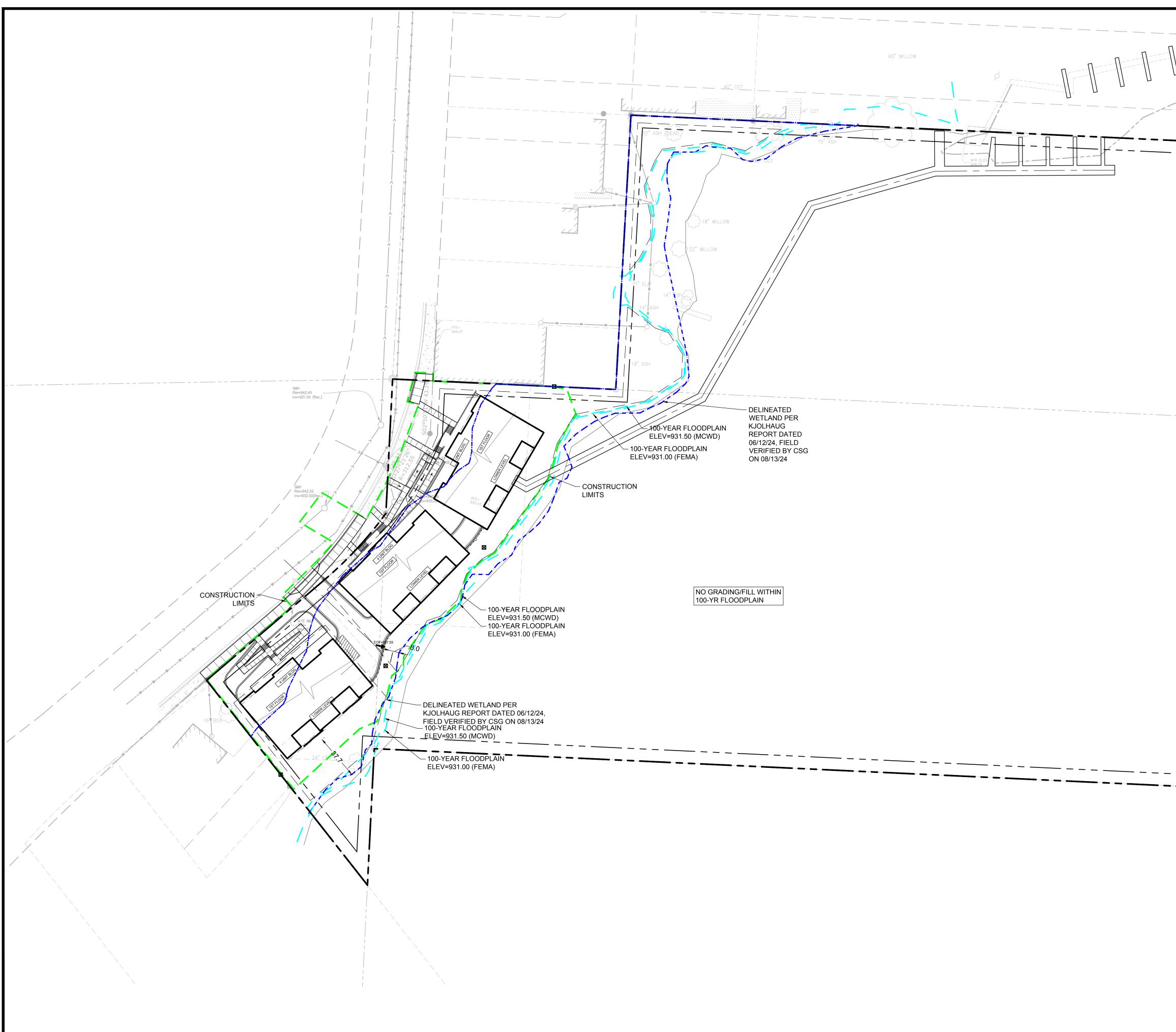


PUD OPEN SPACE CALCULATION				
		REQUIRED	PROPOSED	
TOTAL PROJECT AREA	346,197 SF			
COUNTY ROW	2,641 SF			
ОНЖ	284,058 SF			
REMAINING SITE AREA	59,498 SF			
OPEN SPACE (EXCLUDES DWELLING UNITS, ROAD RIGHTS-OF-WAY,				
OR LAND COVERED BY ROAD SURFACES, PARKING AREAS, OR OTHER				
STRUCTURES	40,605 SF	50% MIN.	68.2%	

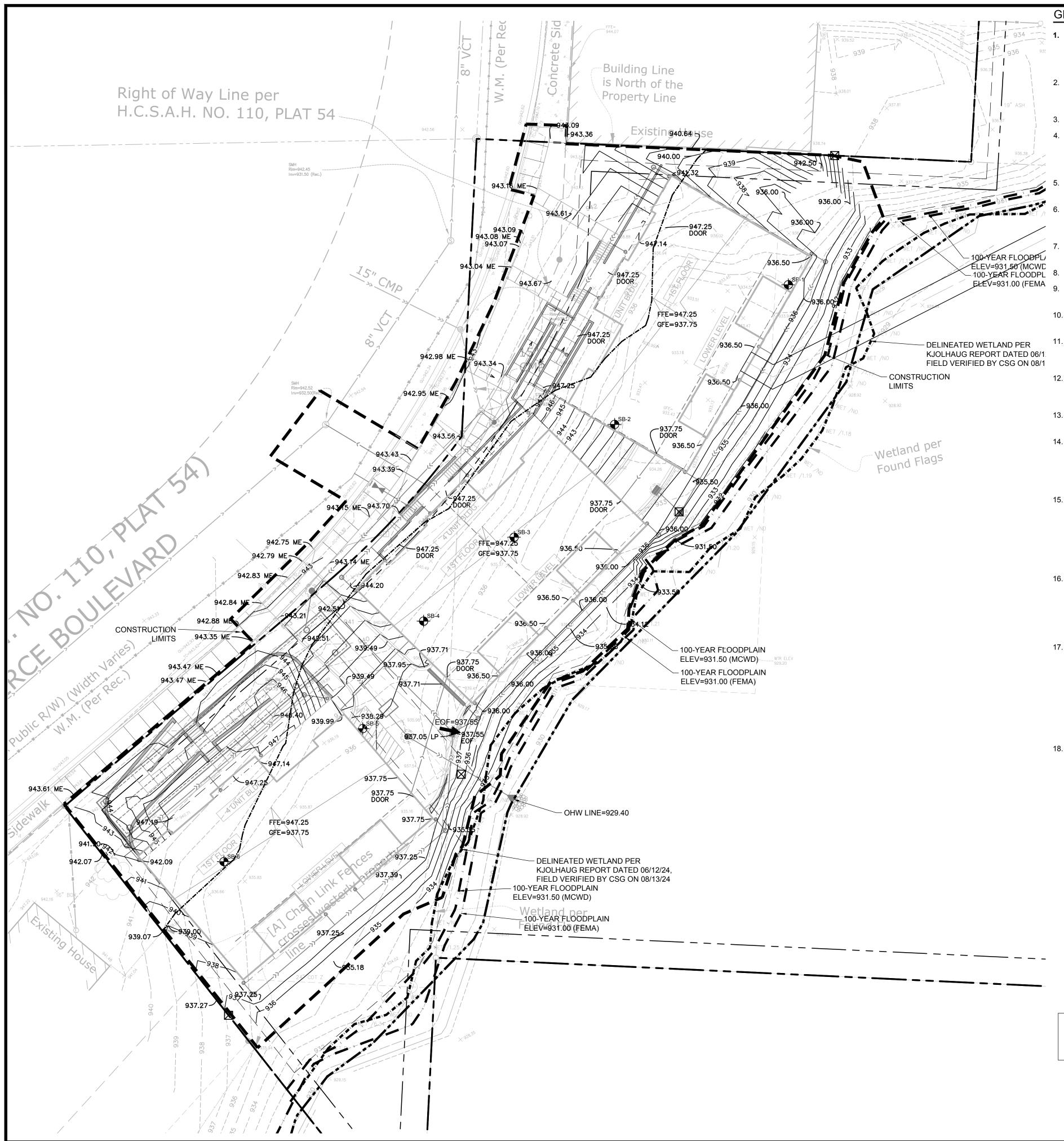




SHORELAND IMPACT ZONE				
REQUIRED PROPOSED				
SHORE IMPACT ZONE (25' FROM OHW)	19,593 SF			
PRESERVED SHORE IMPACT ZONE AREA	15,423 SF	70%	78.7%	



	Civil Engineering • Surveying • Landscape Architecture 5000 Glenwood Avenue Golden Valley, MN 55422 civilsitegroup.com 612-615-0060
	PROJECT LAKE MINNETONKA FLATS 2400-2420 COMMERCE BLVD, MOUND, MN 55364 OWNER OWNER A1 SECONDENCE BLVD, MOUND, MN 55364 A1 SECONDENCE BLVD, MOUND, MN 55364 A1 SECONDENCE BLVD, MOUND, MN 55364 DATE AND
	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. Matthew R. Pavek DATE 09/25/24 LICENSE NO. 44263 ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 07/31/24 CITY SUBMITTAL 08/01/24 WATERSHED SUBMITTAL 09/06/24 CITY RESUBMITTAL 09/06/24 CITY RESUBMITTAL 09/18/24 WATERSHED RESUBMITTAL 09/25/24 WATERSHED RESUBMITTAL 09/25/24 WATERSHED RESUBMITTAL
$\underbrace{\text{From what's below.}} t = 40^{-0}$	PROJECT MANAGER MATT PAVEK CONTACT NUMBER 612-615-0060 X 701 DRAWN BY MD, MP, RB REVIEWED BY MP, RB PROJECT NUMBER 23360 REVISION SUMMARY DATE DESCRIPTION FLOODPLAIN EXHIBIT



## **GENERAL GRADING NOTES:**

- ARCHITECTURAL, STRUCTURAL AND CONTRACTOR PRIOR TO CONSTRUCTION.
- DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 3. SEE SITE PLAN FOR HORIZONTAL LAYOUT & GENERAL GRADING NOTES.
- REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
- ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR DURING CONSTRUCTION AT NO COST TO THE OWNER.
- SYSTEM (NPDES) PERMIT REQUIREMENTS & PERMIT REQUIREMENTS OF THE CITY.
- PROPOSED SPOT GRADES ARE FLOW-LINE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED. NOTED.
- 4:1.
- TO CONSTRUCTION.
- TO THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO TOPSOIL AND SODDING ACTIVITIES.
- AREA SELECTED BY THE CONTRACTOR, OR IMPORT SUITABLE MATERIAL TO THE SITE.
- DEPTH OF 6 INCHES.
- WORK.
- UNDERGROUND STORM RETENTION/DETENTION SYSTEMS
- 17. TOLERANCES
- PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
- FOOT BELOW, THE PRESCRIBED ELEVATION OF ANY POINT WHERE MEASUREMENT IS MADE.
- DIRECTED OTHERWISE BY THE ENGINEER.
- 17.4. TOPSOIL SHALL BE GRADED TO PLUS OR MINUS 1/2 INCH OF THE SPECIFIED THICKNESS. **18. MAINTENANCE**
- RESEEDED AND MULCHED.

GROUNDWATER ELEVATION PER				
BORING				
BORING	GROUND WATER			
BORING	ELEVATION			
SB-1	931.00			
SB-2 932.50				
SB-3 921.50				
SB-4 918.50				
SB-5 927.00				
SB-6 NA				
PER GEOTECHNICAL REPORT COMPLETED BY HAUGO				
GEOTECHNICAL SER	GEOTECHNICAL SERVICES ON 05/15/2024.			

# CITY OF MOUND GRADING NOTES:

RESERVED FOR CITY SPECIFIC GRADING NOTES.

1. CONTRACTOR SHALL VERIFY ALL BUILDING ELEVATIONS. (FFE. LFE. GFE). PRIOR TO CONSTRUCTION BY CROSS CHECKING WITH ARCHITECTURAL, STRUCTURAL AND CIVIL ELEVATIONS FOR EQUIVALENT "100" ELEVATIONS. THIS MUST BE DONE PRIOR TO EXCAVATION AND INSTALLATION OF ANY FOOTING MATERIALS. VERIFICATION OF THIS COORDINATION SHALL BE CONFIRMED IN WRITING BY CIVIL, SURVEYOR,

2. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED

4. THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION (INCLUDING BUT NOT LIMITED TO SITE PREPARATION, SOIL CORRECTION, EXCAVATION, EMBANKMENT, ETC.) IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL

ANY ELEMENTS OF AN EARTH RETENTION SYSTEM AND RELATED EXCAVATIONS THAT FALL WITHIN THE PUBLIC RIGHT OF WAY WILL REQUIRE A "RIGHT OF WAY EXCAVATION PERMIT". CONTRACTOR IS RESPONSIBLE FOR AQUIRING THIS PERMIT PRIOR TO CONSTRUCTION IF APPLICABLE

UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED

GRADING AND EXCAVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION

GRADES OF WALKS SHALL BE INSTALLED WITH 5% MAX. LONGITUDINAL SLOPE AND 1% MIN. AND 2% MAX. CROSS SLOPE, UNLESS OTHERWISE

10. PROPOSED SLOPES SHALL NOT EXCEED 3:1 UNLESS INDICATED OTHERWISE ON THE DRAWINGS. MAXIMUM SLOPES IN MAINTAINED AREAS IS

11. PROPOSED RETAINING WALLS, FREESTANDING WALLS, OR COMBINATION OF WALL TYPES GREATER THAN 4' IN HEIGHT SHALL BE DESIGNED AND ENGINEERED BY A REGISTERED RETAINING WALL ENGINEER. DESIGN DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF GRADE STAKES THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH PROPER GRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE

13. IF EXCESS OR SHORTAGE OF SOIL MATERIAL EXISTS, THE CONTRACTOR SHALL TRANSPORT ALL EXCESS SOIL MATERIAL OFF THE SITE TO AN

14. EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED OR REGRADED AND STOCKPILE IN AREAS DESIGNATED ON THE SITE. THE CONTRACTOR SHALL SALVAGE ENOUGH TOPSOIL FOR RESPREADING ON THE SITE AS SPECIFIED. EXCESS TOPSOIL SHALL BE PLACED IN EMBANKMENT AREAS, OUTSIDE OF BUILDING PADS, ROADWAYS AND PARKING AREAS. THE CONTRACTOR SHALL SUBCUT CUT AREAS, WHERE TURF IS TO BE ESTABLISHED, TO A DEPTH OF 6 INCHES. RESPREAD TOPSOIL IN AREAS WHERE TURF IS TO BE ESTABLISHED TO A MINIMUM

15. FINISHED GRADING SHALL BE COMPLETED. THE CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING, INCLUDING ADJACENT TRANSITION AREAS. PROVIDE A SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCES, WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES. AREAS THAT HAVE BEEN FINISH GRADED SHALL BE PROTECTED FROM SUBSEQUENT CONSTRUCTION OPERATIONS, TRAFFIC AND EROSION. REPAIR ALL AREAS THAT HAVE BECOME RUTTED BY TRAFFIC OR ERODED BY WATER OR HAS SETTLED BELOW THE CORRECT GRADE. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION OR TO THE REQUIREMENTS OF THE NEW

16. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE STREET AND/OR PARKING AREA SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS OF THE STREET OR PARKING AREA ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER. NO TEST ROLL SHALL OCCUR WITHIN 10' OF ANY

17.1. THE BUILDING SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE

17.2. THE STREET OR PARKING AREA SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.05 FOOT ABOVE, OR 0.10

17.3. AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE GRADED TO WITHIN 0.30 FOOT ABOVE OR BELOW THE REQUIRED ELEVATION, UNLESS

18.1. THE CONTRACTOR SHALL PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION, AND KEEP AREA FREE OF TRASH AND DEBRIS. 18.2. CONTRACTOR SHALL REPAIR AND REESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS TO SPECIFIED TOLERANCES. DURING THE CONSTRUCTION, IF REQUIRED, AND DURING THE WARRANTY PERIOD, ERODED AREAS WHERE TURF IS TO BE ESTABLISHED SHALL BE

18.3. WHERE COMPLETED COMPACTED AREAS ARE DISTURBED BY SUBSEQUENT CONSTRUCTION OPERATIONS OR ADVERSE WEATHER. CONTRACTOR SHALL SCARIFY, SURFACE, RESHAPE, AND COMPACT TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION.

## **GRADING PLAN LEGEND:**

----- 1125 -------1137-41.26 891.00 G 891.00 TC 891.00 BS/TS 891.00 ME

GВ

\_\_\_\_\_

EOF=1135.52

**EX. 1' CONTOUR ELEVATION INTERVAL** 1.0' CONTOUR ELEVATION INTERVAL SPOT GRADE ELEVATION (GUTTER/FLOW LINE UNLESS OTHERWISE NOTED) SPOT GRADE ELEVATION GUTTER SPOT GRADE ELEVATION TOP OF CURB SPOT GRADE ELEVATION BOTTOM OF STAIRS/TOP OF STAIRS SPOT GRADE ELEVATION MATCH EXISTING **GRADE BREAK - HIGH POINTS** 

CURB AND GUTTER (T.O = TIP OUT)

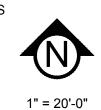
EMERGENCY OVERFLOW

CONSTRUCTION LIMITS



Know what's **below**.

Call before you dig.



10'-0" 0



PRELIMIN. PRELIM					
PROJECT <b>LAKE MINNETONKA FLATS</b> 2400-2420 COMMERCE BLVD, MOUND, MN 55364 2400-2420 COMMERCE BLVD, MOUND, MN 55364 AMMER AMMERCE BLVD, MOUND, MN 55364 AMMERCE BLVD, MN 55664 AMM					
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. Matthew R. Pavek DATE 09/25/24 LICENSE NO. 44263					
ISSUE/SUBMITTAL SUMMARY					

CITY RESUBMITTAL

CITY RESUBMITTAL

WATERSHED RESUBMITT

08/27/24 09/06/24

09/18/24

09/25/24

T NUMBER

EWED BY

DATE

MD, MP, RB

**REVISION SUMMARY** 

DESCRIPTION

GROUP

Civil Engineering • Surveying • Landscap

Architecture

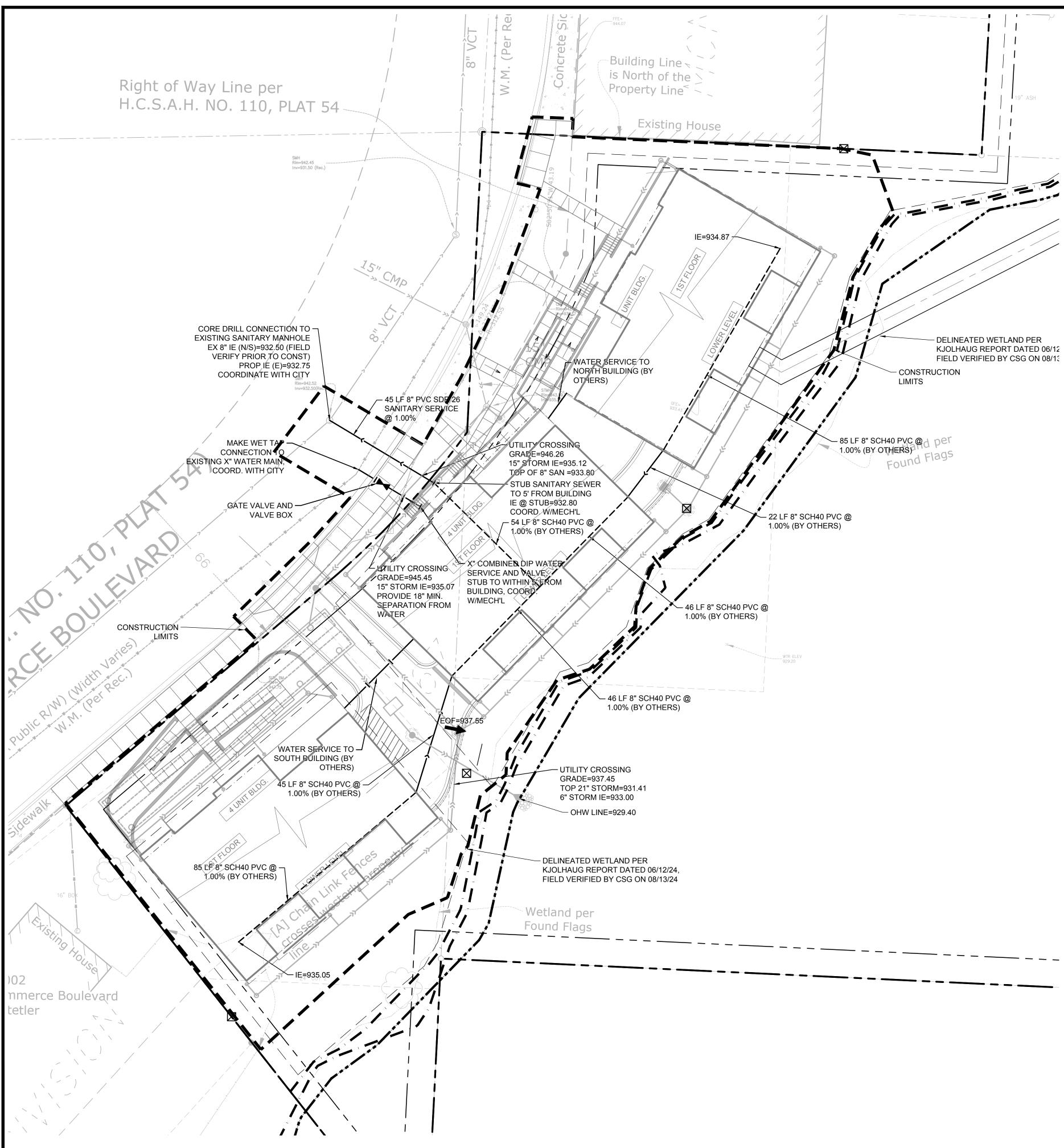
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612-615-0060

5000 Glenwood Avenue Golden Valley, MN 55422

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**GRADING PLAN** 



## **GENERAL UTILITY NOTES:**

- DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 2. SEE SITE PLAN FOR HORIZONTAL DIMENSIONS AND LAYOUT.

- NOTED
- UNLESS OTHERWISE NOTED.
- PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURE OR TO END OF FLARED END SECTION.
- FINAL CONNECTION TO BUILDING LINES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS.
- FEET PER DETAILS. RIM ELEVATIONS SHOWN ON THIS PLAN DO NOT REFLECT SUMPED ELEVATIONS.
- 12. ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.

- OTHERWISE NOTED.
- CONSTRUCTION.
- 17. CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE-DRILLED.
- 18. COORDINATE LOCATIONS AND SIZES OF SERVICE CONNECTIONS WITH THE MECHANICAL DRAWINGS.
- TIMES. NO ROAD CLOSURES SHALL BE PERMITTED WITHOUT APPROVAL BY THE CITY.
- LOADING.
- 22. 2CONTRACTOR SHALL COORDINATE ALL WORK WITH PRIVATE UTILITY COMPANIES.
- SLEEVES NECESSARY AS TO NOT IMPACT INSTALLATION OF UTILITIES.
- COMPLETION OF WORK.
- MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, OR OTHER STRUCTURES
- ACCORDANCE WITH MN RULES, CHAPTER 4714, SECTION 1109.0.
- REQUIREMENTS.

# CITY OF MOUND UTILITY NOTES:

1. RESERVED FOR CITY SPECIFIC UTILITY NOTE

1. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE

3. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS. 4. UTILITY INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION" AND "SANITARY SEWER AND STORM SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), AND SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY AND THE PROJECT SPECIFICATIONS

5. CASTINGS SHALL BE SALVAGED FROM STRUCTURE REMOVALS AND RE-USED OR PLACED AT THE DIRECTION OF THE OWNER.

ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) AWWA C151, ASME B16.4, AWWA C110, AWWA C153 UNLESS OTHERWISE

ALL SANITARY SEWER SHALL BE SDR 26 POLYVINYL CHLORIDE (PVC) ASTM D3034 & F679, OR SCH 40 ASTM D1785, 2665, ASTM F794, 1866)

ALL STORM SEWER PIPE SHALL BE HDPE ASTM F714 & F2306 WITH ASTM D3212 SPEC FITTINGS UNLESS OTHERWISE NOTED.

10. UTILITIES ON THE PLAN ARE SHOWN TO WITHIN 5' OF THE BUILDING FOOTPRINT. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE

11. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.15

13. HYDRANT TYPE, VALVE, AND CONNECTION SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS. HYDRANT EXTENSIONS ARE INCIDENTAL 14. A MINIMUM OF 8 FEET OF COVER IS REQUIRED OVER ALL WATERMAIN, UNLESS OTHERWISE NOTED. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. EXTRA DEPTH WATERMAIN IS INCIDENTAL. KJOLHAUG REPORT DATED 06/12 15. A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES, UNLESS

16. ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND COORDINATED WITH THE CITY PRIOR TO

19. COORDINATE INSTALLATION AND SCHEDULING OF THE INSTALLATION OF UTILITIES WITH ADJACENT CONTRACTORS AND CITY STAFF.

20. ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL PAVEMENT CONNECTIONS SHALL BE SAWCUT. ALL TRAFFIC CONTROLS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CITY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FLASHERS, AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL

21. ALL STRUCTURES, PUBLIC AND PRIVATE, SHALL BE ADJUSTED TO PROPOSED GRADES WHERE REQUIRED. THE REQUIREMENTS OF ALL OWNERS MUST BE COMPLIED WITH. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC

23. CONTRACTOR SHALL COORDINATE CONNECTION OF IRRIGATION SERVICE TO UTILITIES. COORDINATE THE INSTALLATION OF IRRIGATION

24. CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS THROUGHOUT CONSTRUCTION AND SUBMIT THESE PLANS TO ENGINEER UPON

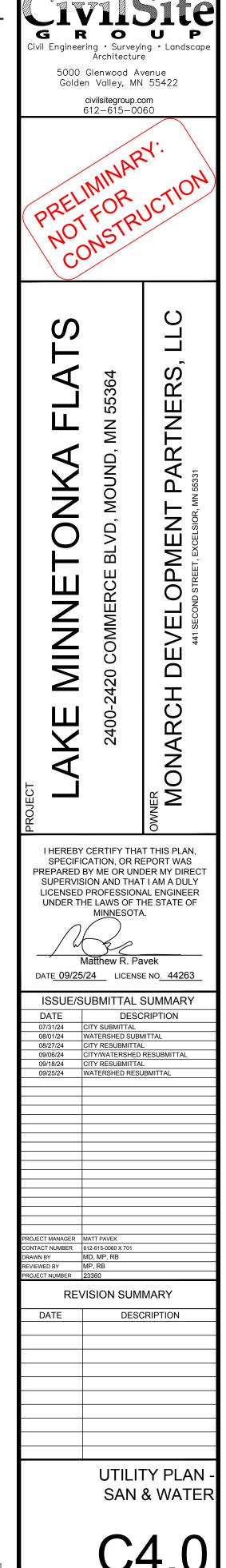
25. ALL JOINTS AND CONNECTIONS IN STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT. APPROVED RESILIENT RUBBER JOINTS

26. ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN

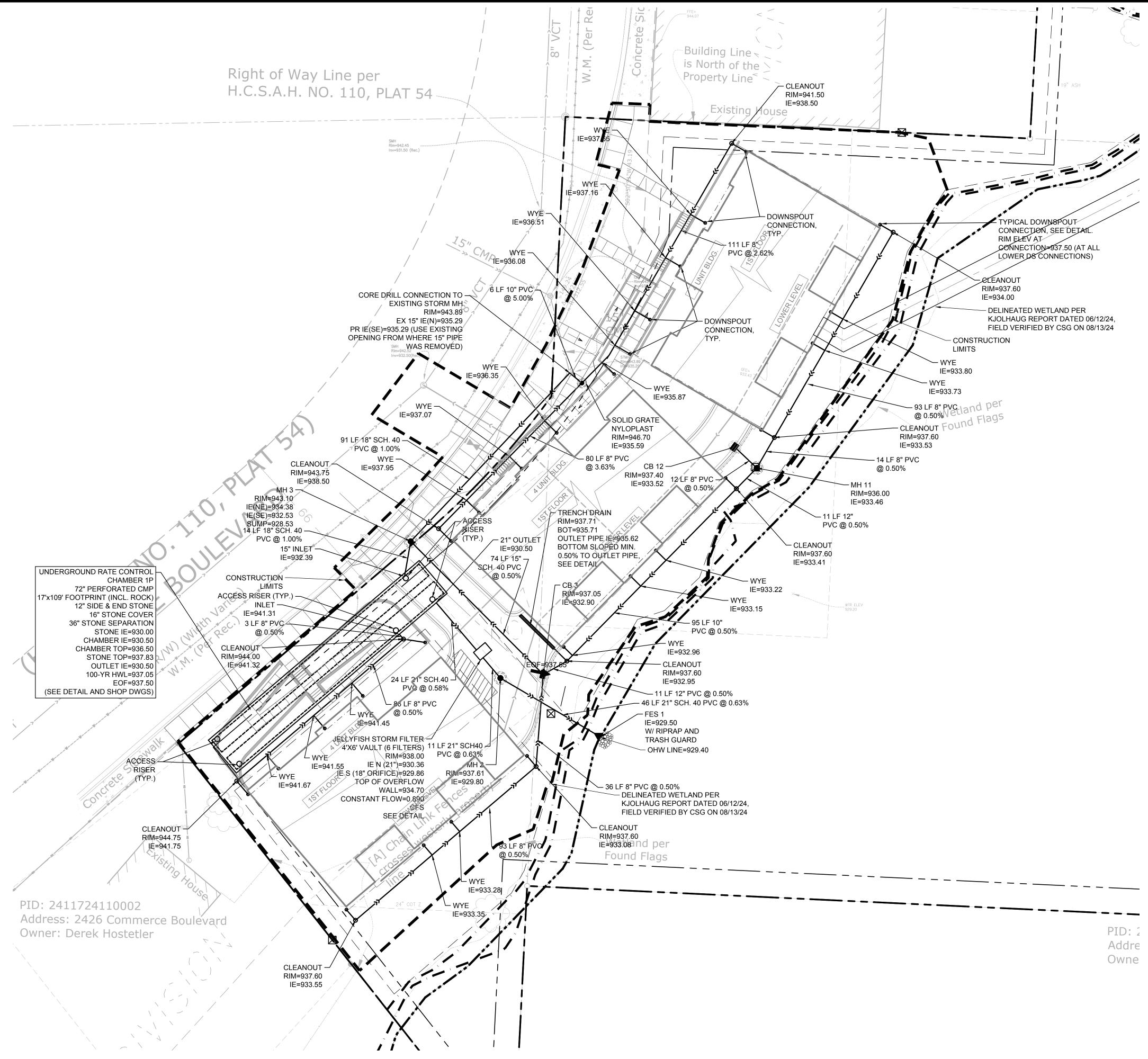
27. FOR ALL SITES LOCATED IN CLAY SOIL AREAS, DRAIN TILE MUST BE INSTALLED AT ALL LOW POINT CATCH BASINS 25' IN EACH DIRECTION. SEE PLAN AND DETAIL. INSTALL LOW POINT DRAIN TILE PER PLANS AND GEOTECHNICAL REPORT RECOMMENDATIONS AND

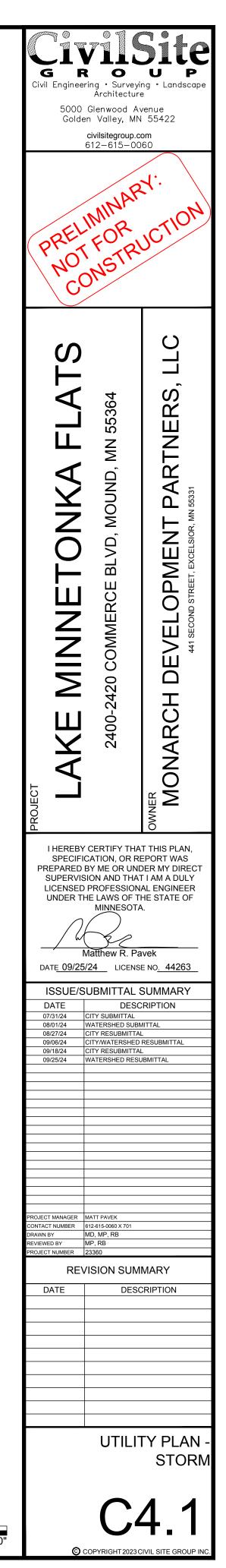
S.			
З.			

UTILITY LEGEND:	
	CATCH BASIN
	MANHOLE
	GATE VALVE AND VALVE BOX
-	PROPOSED FIRE HYDRANT
	WATER MAIN
>	SANITARY SEWER
>>>	STORM SEWER
	FES AND RIP RAP
	TRENCH DRAIN
	CONSTRUCTION LIMITS
Know what's belo Call before	1" = 20'-0"           you dig.         20'-0"



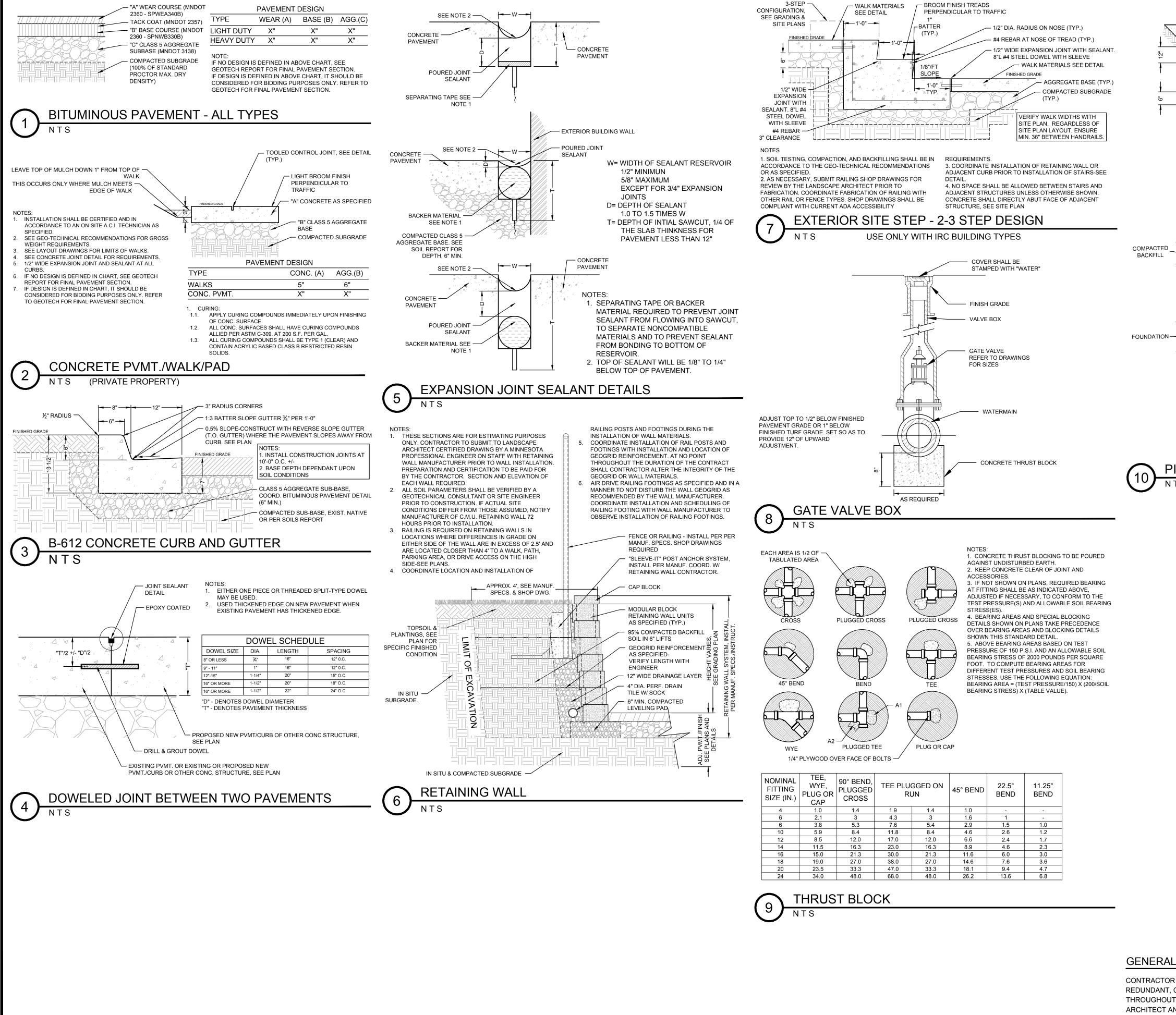
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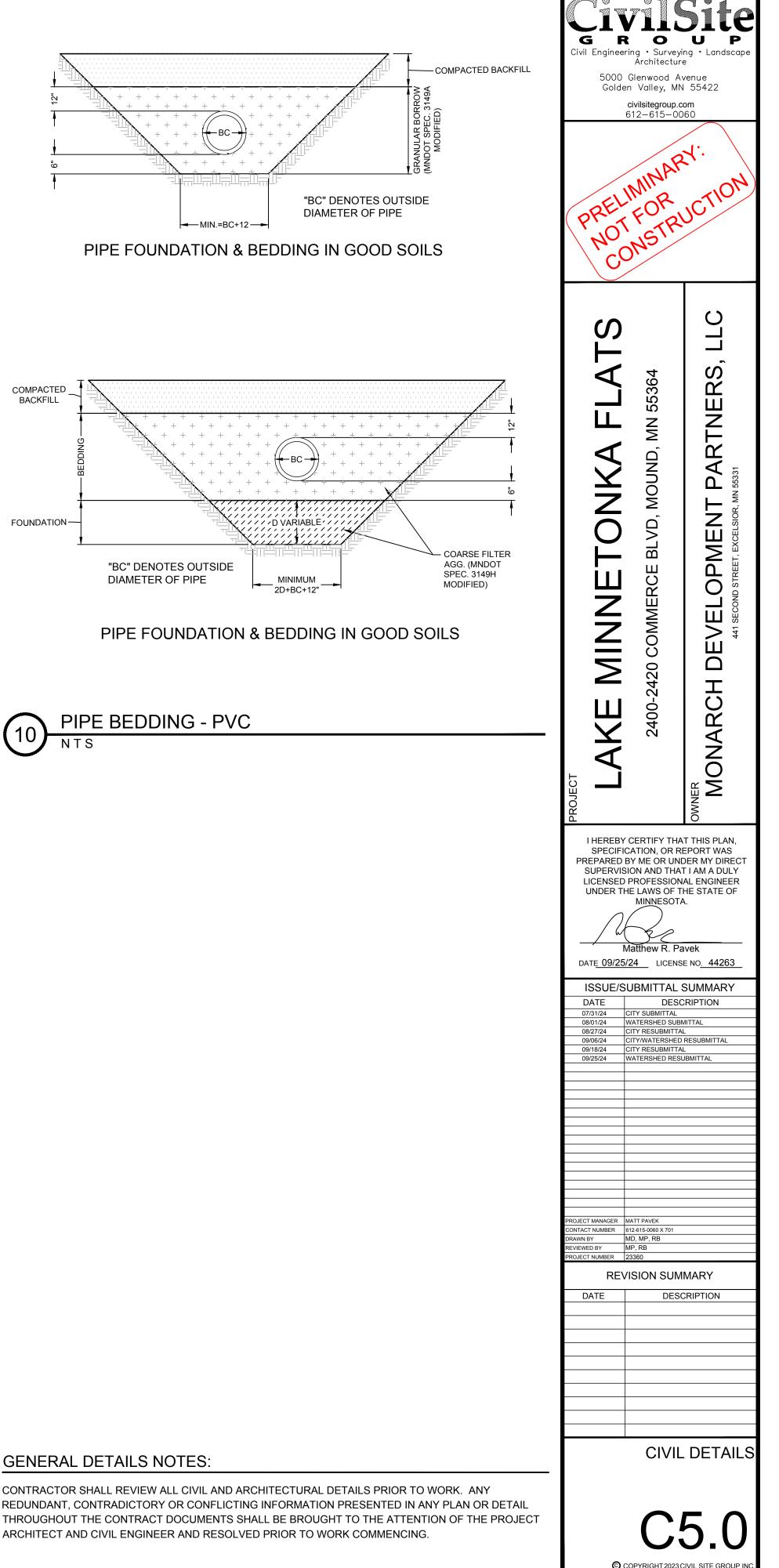
UTILITY LEGEND:

	CATCH BASIN
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<b>.</b>	PROPOSED FIRE HYDRANT
	WATER MAIN
>	SANITARY SEWER
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	CONSTRUCTION LIMITS
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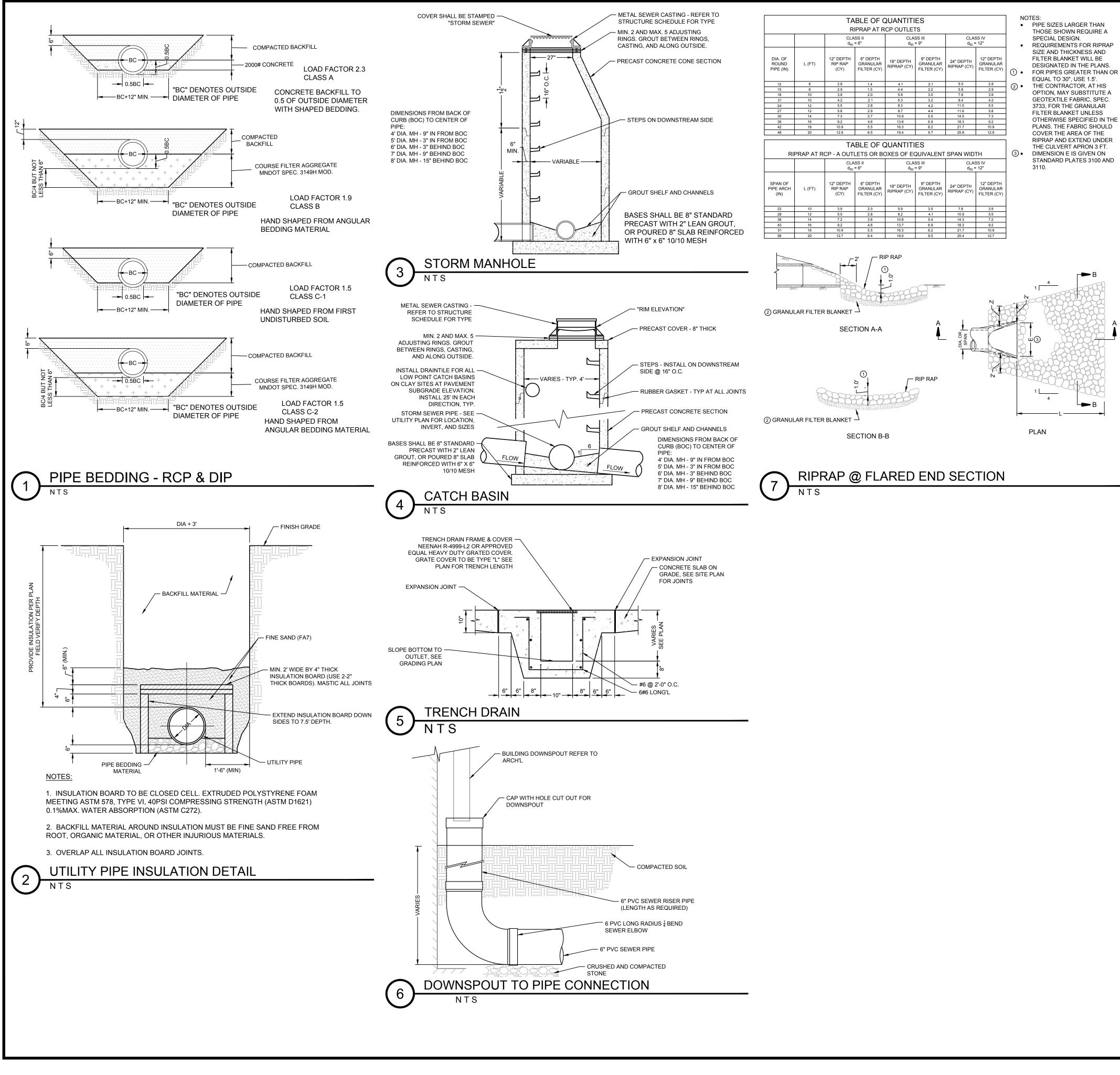


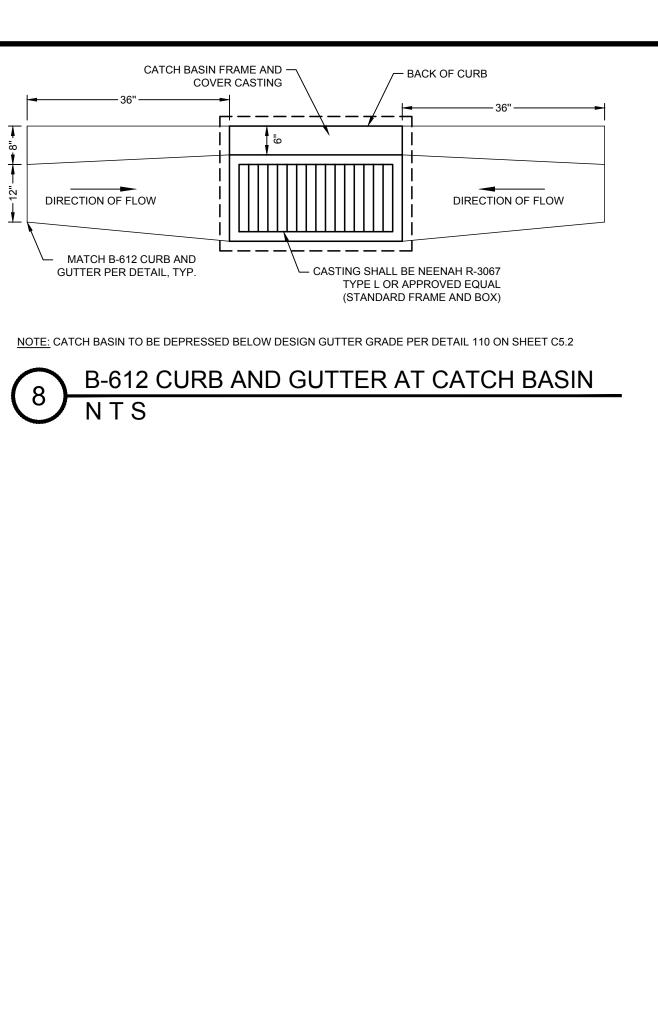
# **GENERAL DETAILS NOTES:**

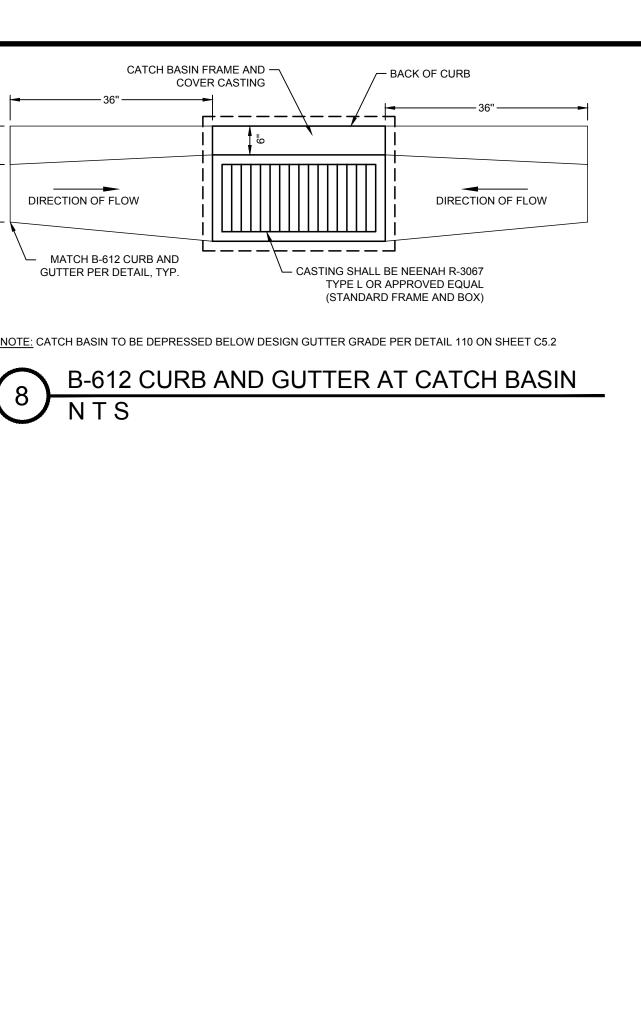
NOMINAL FITTING SIZE (IN.)	TEE, WYE, PLUG OR CAP	90° BEND, PLUGGED CROSS		GGED ON JN	45° BEND	22.5° BEND	11.25° BEND
4	1.0	1.4	1.9	1.4	1.0	-	-
6	2.1	3	4.3	3	1.6	1	-
6	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.6	1.2
12	8.5	12.0	17.0	12.0	6.6	2.4	1.7
14	11.5	16.3	23.0	16.3	8.9	4.6	2.3
16	15.0	21.3	30.0	21.3	11.6	6.0	3.0
18	19.0	27.0	38.0	27.0	14.6	7.6	3.6
20	23.5	33.3	47.0	33.3	18.1	9.4	4.7
24	34.0	48.0	68.0	48.0	26.2	13.6	6.8



REDUNDANT, CONTRADICTORY OR CONFLICTING INFORMATION PRESENTED IN ANY PLAN OR DETAIL THROUGHOUT THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT AND CIVIL ENGINEER AND RESOLVED PRIOR TO WORK COMMENCING.

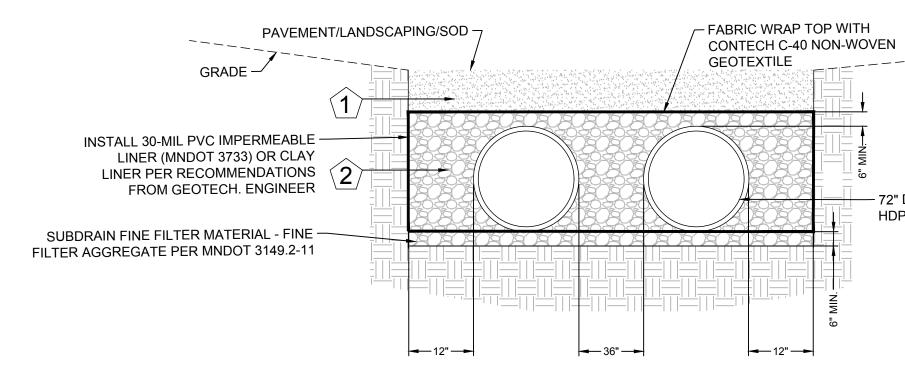






	Architecture Glenwood Av en Valley, MN civilsitegroup.c 612-615-00	venue 55422 om
PREL NOT	IMINAR FOR DNSTRI	JCTION
LAKE MINNETONKA FLATS	2400-2420 COMMERCE BLVD, MOUND, MN 55364	OWNER MONARCH DEVELOPMENT PARTNERS, LLC 441 SECOND STREET, EXCELSIOR, MN 55331
SPECIFI PREPARED SUPERVIS LICENSED UNDER T	CERTIFY THA CATION, OR RI BY ME OR UNE SION AND THAT PROFESSION HE LAWS OF TH MINNESOTA MINNESOTA MATTHEW R. Pa	EPORT WAS DER MY DIRECT F I AM A DULY AL ENGINEER HE STATE OF A.
DATE 09/25		e no <u>. 44263</u>
DATE 07/31/24 08/01/24 08/27/24 09/06/24	DESC CITY SUBMITTAL WATERSHED SUBM CITY RESUBMITTAL CITY/WATERSHED	L
09/18/24 09/25/24	CITY RESUBMITTAI WATERSHED RESU	L
PROJECT MANAGER	MATT PAVEK	
CONTACT NUMBER DRAWN BY REVIEWED BY PROJECT NUMBER	612-615-0060 X 701 MD, MP, RB MP, RB 23360	
RE <sup>V</sup> DATE	VISION SUM	
	CIVIL	DETAILS
	C	5.1
Ø	COPYRIGHT 2023 C	CIVIL SITE GROUP INC.

GROUP



KEY \ 1. TOPSOIL

2. FREE DRAINING ANGULAR DOUBLE WASHED STONE 3/4" - 2" PARTICLE SIZE - NON CARBONATE (LIMESTONE) AND NON CONCRETE. COORDINATE MATERIAL / PARTICLE SIZE W/ MANUFACTURER. INSTALL TO MIN. 95% STANDARD DENSITY PER AASHTO T99.

## CONSTRUCTION SEQUENCING

- 1. INSTALL SILT FENCE AND/OR OTHER APPROPRIATE TEMPORARY EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING OR ENTERING
- THE PRACTICE DURING CONSTRUCTION. 2. ALL DOWN-GRADIENT PERIMETER SEDIMENT CONTROL BMP'S MUST BE IN
- PLACE BEFORE ANY UP-GRADIENT LAND DISTURBING ACTIVITY BEGINS. 3. PERFORM CONTINUOUS INSPECTIONS OF EROSION CONTROL PRACTICES.
- 4. INSTALL UTILITIES (WATER, SANITARY SEWER, ELECTRIC, PHONE, FIBER OPTIC, ETC) PRIOR TO THE STORMWATER SYSTEM.
- 5. PERFORM ALL OTHER SITE IMPROVEMENTS.
- 6. SEED AND MULCH ALL AREAS AFTER DISTURBANCE. 7. CONSTRUCT RETENTION DEVICE UPON STABILIZATION OF CONTRIBUTING
- DRAINAGE AREA. 8. IMPLEMENT TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES.
- 9. PLANT AND MULCH SITE. 10. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER THE
- CONTRIBUTING DRAINAGE AREA IS ADEQUATELY VEGETATED.

UNDERGROUND RATE CONTROL BASIN WITH LINER

GENERAL NOTES

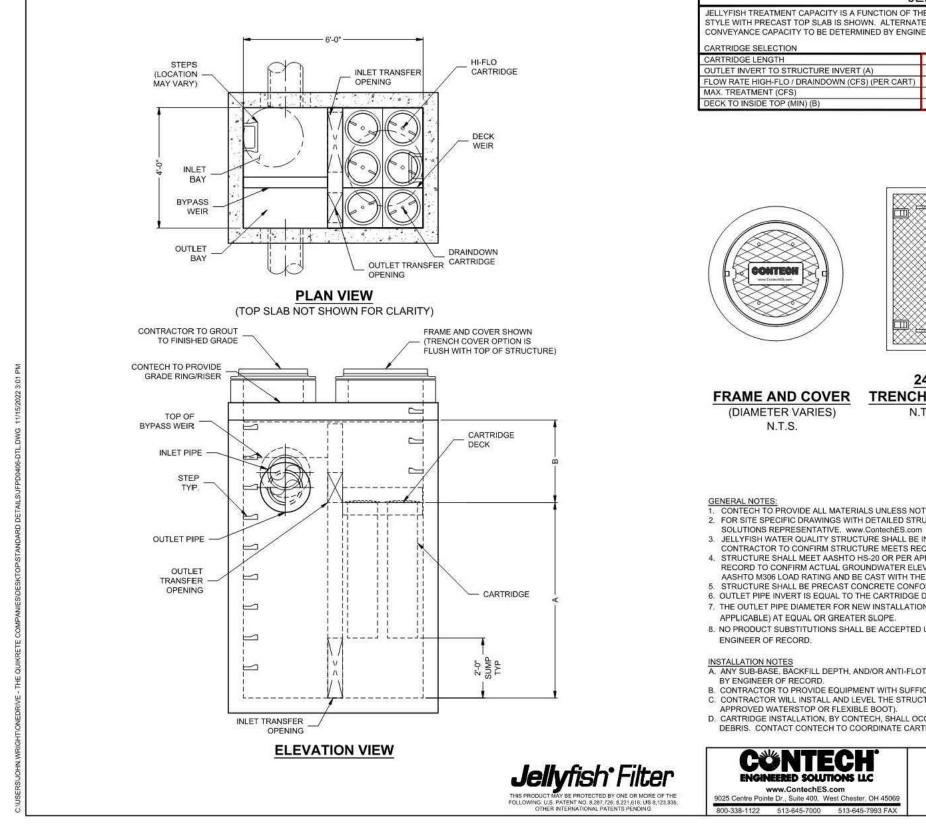
- OF UNDERLYING SOILS.
- SHALL BE UNDISTURBED, UNLESS OTHERWISE NOTED.
- 4. SEE UTILITY PLAN / SHOP DRAWINGS FOR SYSTEM LAYOUT.

FTE------ 72" DIA. PERF. CMP / HDPE

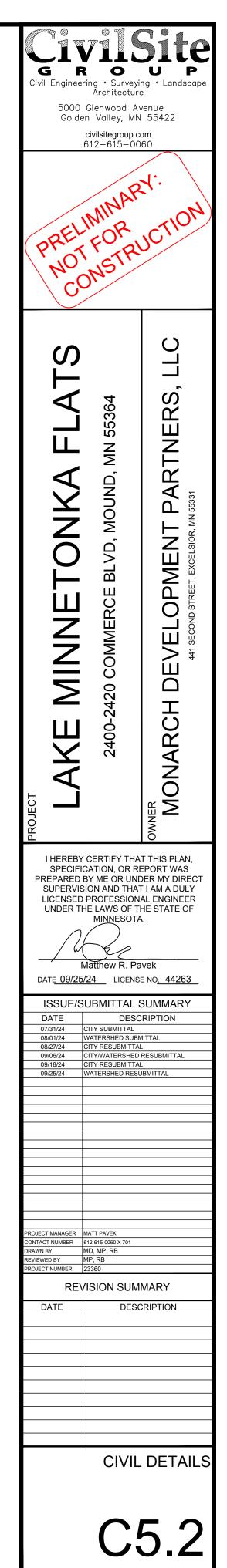
1. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL SHALL BE REMOVED FROM THE PRACTICE PRIOR TO CONTINUING CONSTRUCTION. 2. GRADING OF RETENTION DEVICES SHALL BE ACCOMPLISHED USING LOW-COMPACTION EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION

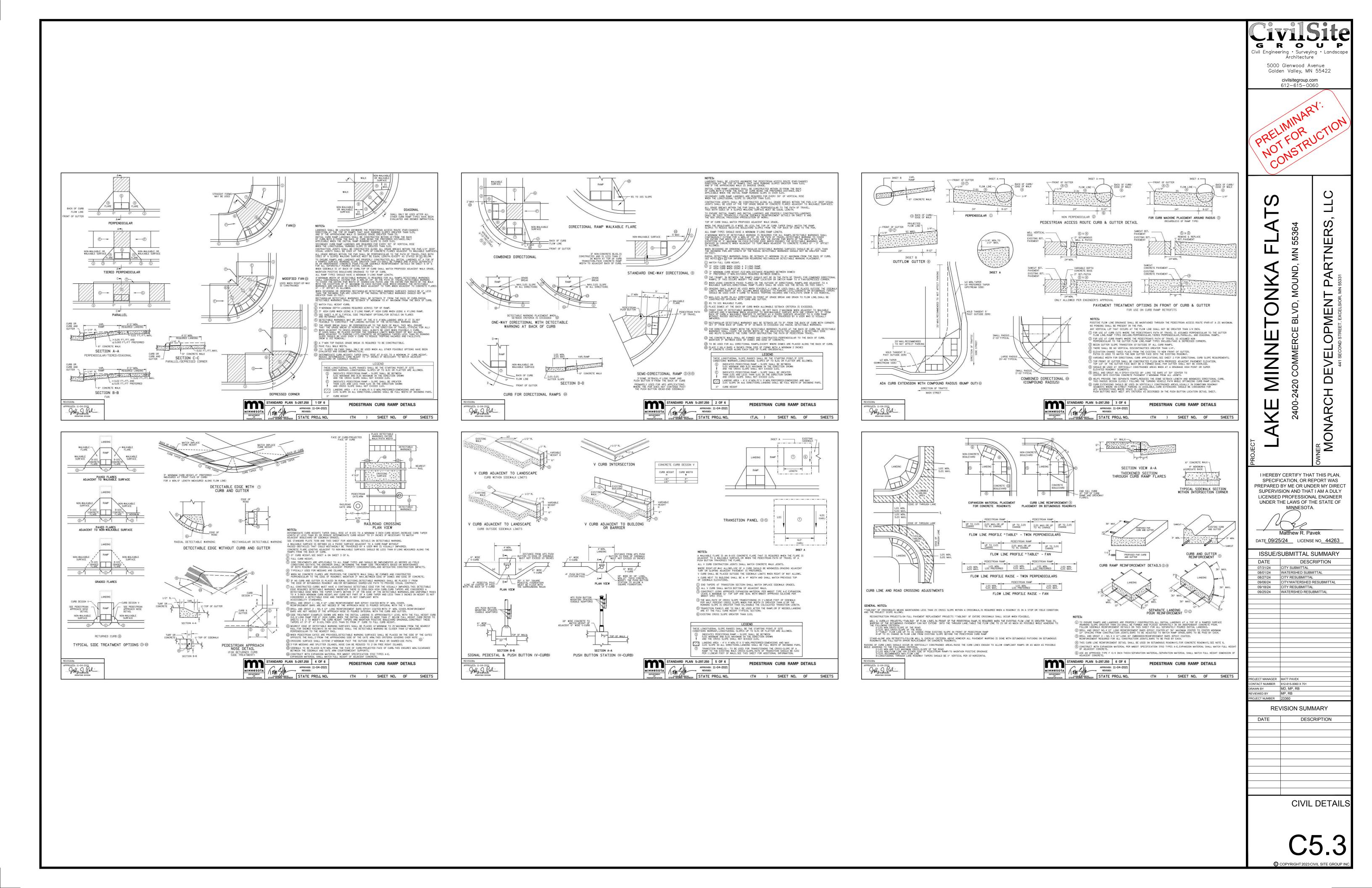
3. ALL SUB MATERIALS BELOW THE SPECIFIED RETENTION DEPTH (ELEVATION)

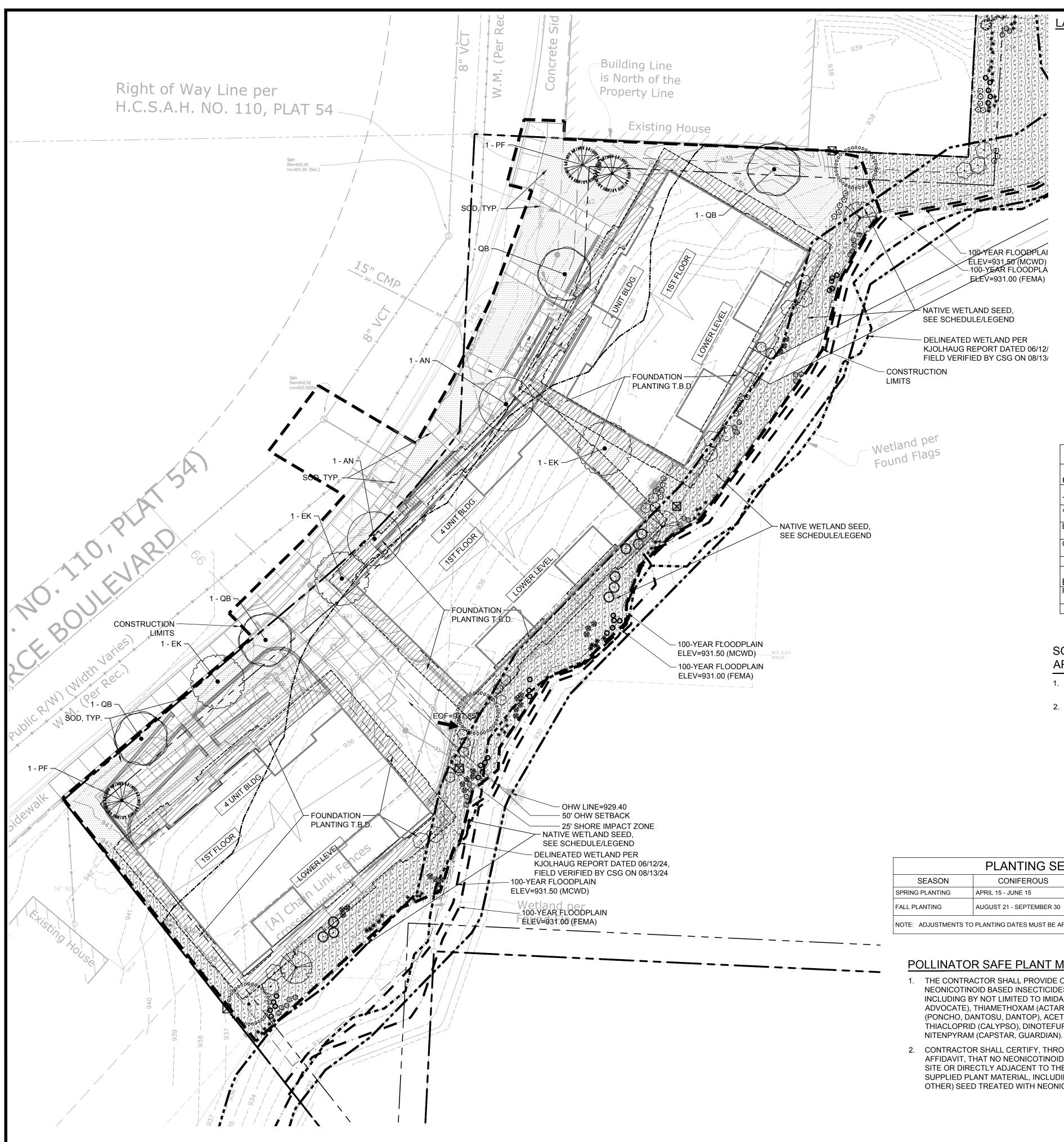
5. TYPICAL DETAILS ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH REVIEWED SHOP DRAWINGS.



6'-6" 0.178 / 0.089 0.89	5'-4"					
and the second se		1	4'-3"		3'-3	<b>!</b> )
	0.133 / 0.067	0.08	39 / 0.045	_	0.049/0	
5'-0"	0.67	-	0.45	-	0.25	
		1-1-C-3-V (C)#	SITE SPE A REQUI		NTS	
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NLESS SUBMITTED 10 I	DAYS PRIOR TO PROJE	CT BID DAT	E, OR AS D	RECTED	BY THE	
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	CH CAPACITY TO LIFT A				OUT WITH	
ENT LIFTING AND READ JRE, SEALING THE JOI	13, LINE LIVIN' AND I					







## LANDSCAPE NOTES:

- ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMA CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REP ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION COST TO THE OWNER.
- 2. REFERENCE MULCH SCHEDULE FOR MULCH MATERIALS AND LOCATIONS.
- ALL TREES SHALL BE MULCHED WITH SHREDDED CEDAR MU OUTER EDGE OF SAUCER OR TO EDGE OF PLANTING BED, IF APPLICABLE. ALL MULCH SHALL BE KEPT WITHIN A MINIMUM FROM TREE TRUNK.
- IF SHOWN ON PLAN, RANDOM SIZED LIMESTONE BOULDERS AND SIZE TO COMPLIMENT NEW LANDSCAPING. OWNER TO APPROVE BOULDER SAMPLES PRIOR TO INSTALLATION.
- PLANT MATERIALS SHALL CONFORM WITH THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND SHALL BE HARDY STOCK, FREE FROM DISEASE, DAMAGE AND DISFIGURATION. CONTRACTOR IS RESPONSIBLE FOR MAINT PLUMPNESS OF PLANT MATERIAL FOR DURATION OF ACCEP PERIOD.
- UPON DISCOVERY OF A DISCREPANCY BETWEEN THE QUAN PLANTS SHOWN ON THE SCHEDULE AND THE QUANTITY SHO THE PLAN, THE PLAN SHALL GOVERN.
- 7. CONDITION OF VEGETATION SHALL BE MONITORED BY THE LANDSCAPE ARCHITECT THROUGHOUT THE DURATION OF TH CONTRACT. LANDSCAPE MATERIALS PART OF THE CONTRACT

	MUL
AREA	MULCH TY
TREE RINGS	4" DEPTH, SHREDDED CEDA
PLANTING BEDS	4" DEPTH, SHREDDED CEDA
MAINT. STRIP AT BUILDING FOUNDATION	NA
NATIVE SEED AREAS	PUNCHED STRAW
NOTE: COORDINATE ALL MULCH AND PLAN MATERIALS	TING BED MATERIAL PRIOR TO

PLAN	NT SC	CHEDULE
CODE	QTY	COMMON / BOTANICAL NAME
TREES		
AN	2	Northwood Red Maple / Acer rubrum `Northwood`
EK	3	Espresso Kentucky Coffeetree / Gymnocladus dioio
QB	4	Swamp White Oak / Quercus bicolor
	9	SUBTOTAL:
EVERG	REEN T	REES
PF	3	Pyramidal White Pine / Pinus strobus 'Fastigiata'
	3	SUBTOTAL:

#### SOIL AMENDMENT (WETLAND BUFFER AREAS):

- 1. WETLAND BUFFER AREAS SHALL BE SEEDED PER PLAN AND SEED SCHEDULE.
- 2. SUBSOIL MUST BE DE-COMPACTED TO A DEPTH OF 6 INCHES PRIOR TO PLACEMENT OF 6" (MINIMUM) TOPSOIL. DE-COMPACTION METHOD SHALL BE SCARIFY/LOOSEN TOP 6" OF SOIL WITH GRADING CHISEL, PRIOR TO PLACEMENT OF 6" TOPSOIL.

K	$\checkmark$
K,	

PLANTING SEASON SCHEDULE					
SEASON	CONIFEROUS	DECIDUOUS	REMARKS		
SPRING PLANTING	APRIL 15 - JUNE 15	APRIL 15 - JUNE 15			
FALL PLANTING	AUGUST 21 - SEPTEMBER 30	AUGUST 15 - NOVEMBER 15			
NOTE: ADJUSTMENTS TO	NOTE: ADJUSTMENTS TO PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT				

## NOTE: ADJUSTMENTS TO PLANTING DATES MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

### POLLINATOR SAFE PLANT MATERIAL

- 1. THE CONTRACTOR SHALL PROVIDE ONLY PLANT MATERIAL FREE OF NEONICOTINOID BASED INSECTICIDES AND/OR TREATMENTS OF ANY KIND, INCLUDING BY NOT LIMITED TO IMIDACLOPRID (CONFIDOR, ADMIRE, GAUCHO, ADVOCATE), THIAMETHOXAM (ACTARA, PLATINUM, CRUISER), CLOTHIANIDIN (PONCHO, DANTOSU, DANTOP), ACETAMIPRID (MOSPILAN, ASSAIL, CHIPCOTRISTAR), THIACLOPRID (CALYPSO), DINOTEFURAN (STARKLE, SAFARI, VENOM), AND NITENPYRAM (CAPSTAR, GUARDIAN).
- 2. CONTRACTOR SHALL CERTIFY, THROUGH SUPPLIERS POLICY STATEMENT OR AFFIDAVIT, THAT NO NEONICOTINOID BASED INSECTICIDES HAVE BEEN USED ON SITE OR DIRECTLY ADJACENT TO THE GROWING OR STORAGE PLOTS OF THE SUPPLIED PLANT MATERIAL, INCLUDING THE PLANTING OF AGRICULTURAL (OR OTHER) SEED TREATED WITH NEONICS ..

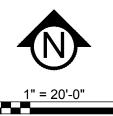
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) PLACE <sup>8.</sup> N AT NO	ALL AREAS DIS RECEIVE 6" LAY OTHERWISE NO	ER TOPSOIL	AND SOD /	AS SPECIF		
ID <sup>9.</sup> ULCH TO	COORDINATE L AND OVERHEAD WINDOWS. CON LOCATION OF T	D UTILITIES, LI ITRACTOR SH	GHTING F	IXTURES, E IN THE F	DOORS AND	
F M OF 2" 10.	THE LANDSCAP					UNT
COLOR 11.	ACCEPTANCE. REPAIR AT NO (				SULTING FRO	M
, 12.	LANDSCAPE CC SWEEP AND MA	INTAIN ALL P	AVED SUR	FACES FR		6
	GENERATED FR	VIDE IRRIGAT	ION SYSTI	EM DESIGI	N AND	
TAINING PTANCE NTITY OF OWN ON	INSTALLATION. CAPABLE OF AL PROVIDE HEAD DELIVERING ON SHALL EXTEND	TERNATE DA TO HEAD OR IE INCH OF PF INTO THE PUI	TE WATER DRIP COV RECIPITAT	RING. THE ERAGE AN ION PER V	SYSTEM SHAL ND BE CAPABL VEEK. SYSTEN	L E OI /I
14. THE .CT	PAVEMENT/BAC CONTRACTOR S IRRIGATION SYS INSTALLATION.	SHALL SECUR				R TC
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	NA	NA			EDING MANUAL,	
	N, PROVIDE SAMPLE					
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	2.5" Cal. B&B	NATIVE CUL	TIVAR	Y		
a `Espresso`	2.5" Cal. B&B	NATIVE CUL	TIVAR	N		
	2.5" Cal. B&B	NATIVE		Y		
	6` HT. B&B	NATIVE CUL	TIVAR	N		
LEGEN	)					
PLAN	T SCHED	ULE				
SYMBOL	COMMON /	BOTANICAL	NAME	QTY	SIZE	
GROUND	COVERS				-	
	a'.11		E, PER	6,384 sf	Seed Mix	
	Blue Grass Ba Commercial gr Roll" preferred	ade, locally gro	wn, "Big	6,135 sf	Sod	
~						
	and the	PLANT		E AND PLAN	YMBOLS - SEE FOR SPECIES	
· · ·	7	VERGREEN TRE ND PLAN FOR SF				
		RNAMENTAL TR ND PLAN FOR SF				
+ + + + + + + + + + + + + + + + + + +		ECIDUOUS AND OULE AND PLAN	-			

PLANT SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES PROPOSED PERENNIAL PLANT SYMBOLS - SEE PLANT SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES EDGING - SHALL BE COMMERCIAL GRADE, 4" DEPTH ALUMINUM, BLACK OR DARK GREEN IN COLOR, INCLUDE ALL CONNECTORS, STAKES, & ALL APPURTENANCES PER MANUF. INSTALL PER MANUF. INSTRUC./SPECS. DECORATIVE BOULDERS (ROUNDED & BLOCK STYLE), 18"-30" DIA.

CONSTRUCTION LIMITS



Call before you dig.

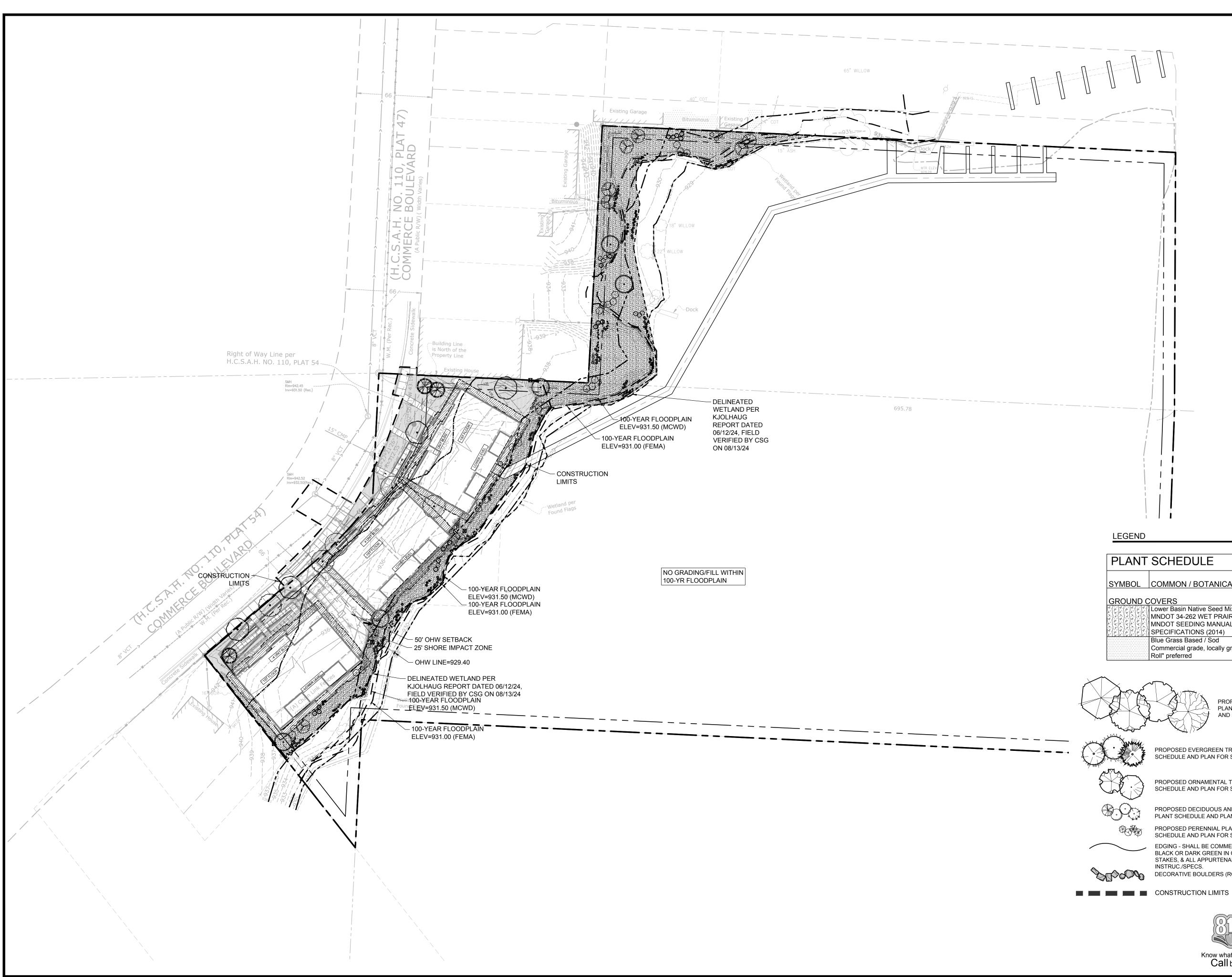


5000 Glenwood Avenue Golden Valley, MN 55422 civilsitegroup.com 612-615-0060					
PREL	MINAR FOR INSTR	y: JCTION			
LAKE MINNETONKA FLATS	2400-2420 COMMERCE BLVD, MOUND, MN 55364	OWNER MONARCH DEVELOPMENT PARTNERS, LLC 441 SECOND STREET, EXCELSIOR, MN 55331			
SPECIFI PREPARED SUPERVIS LICENSED L/	SION AND THAT ANDSCAPE AR	EPORT WAS DER MY DIRECT F I AM A DULY CHITECT UNDER OF MINNESOTA.			
DATE 09/25		E NO <u>. 25821</u>			
DATE 07/31/24	SUBMITTAL S DESC CITY SUBMITTAL	SUMMARY RIPTION			
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L	ANDSCA	APE PLAN			
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Architecture





PLANT SCHEDULE					
SYMBOL	COMMON / BOTANICAL NAME	QTY	SIZE		
GROUND C		1			
V. A. V.	Lower Basin Native Seed Mix MNDOT 34-262 WET PRAIRIE, PER MNDOT SEEDING MANUAL SPECIFICATIONS (2014)	6,384 sf	Seed Mix		
	Blue Grass Based / Sod Commercial grade, locally grown, "Big Roll" preferred	6,135 sf	Sod		

PROPOSED CANOPY TREE SYMBOLS - SEE PLANT SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES

PROPOSED EVERGREEN TREE SYMBOLS - SEE PLANT SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES

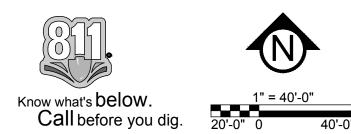
PROPOSED ORNAMENTAL TREE SYMBOLS - SEE PLANT SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES

PROPOSED DECIDUOUS AND EVERGREEN SHRUB SYMBOLS - SEE PLANT SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES PROPOSED PERENNIAL PLANT SYMBOLS - SEE PLANT

SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES EDGING - SHALL BE COMMERCIAL GRADE, 4" DEPTH ALUMINUM, BLACK OR DARK GREEN IN COLOR, INCLUDE ALL CONNECTORS, STAKES, & ALL APPURTENANCES PER MANUF. INSTALL PER MANUF. INSTRUC./SPECS.

DECORATIVE BOULDERS (ROUNDED & BLOCK STYLE), 18"-30" DIA.





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SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CON	T	NAT	IVE PLANTS	POLLINATOR FRIENDL
REES				T				
00000000000000000000000000000000000000	LL	5	Tamarack / Larix laricina	1" CA	 L. B&B	NAT	IVE	N
		5	SUBTOTAL:					
ORNAMEN	ITAI TRE	ES						
X								
	AG	9	Autumn Brilliance Apple Serviceberry / Amelanchier x grandiflora 'Autumn Brilliance'	1" CA	L. B&B	NAT	IVE CULTIVAR	Y
		9	SUBTOTAL:					
SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	SIZE		NAT	TIVE PLANTS	POLLINATOR FRIENDLY
SHRUBS		1		1		-		·
AND	AL	9	Leadplant / Amorpha canescens	#2 CC	DNT	NAT	IVE	Y
$\bigcirc$	AA	22	Autumn Magic Black Chokeberry / Aronia melanocarpa 'Autumn Magic'	#3 CONT NATIVE CULTIVAR		IVE CULTIVAR	Y	
$\bigcirc$	АМ	12	Iroquois Beauty™ Black Chokeberry / Aronia melanocarpa 'Morton'	#3 CONT NATIVE CULT		IVE CULTIVAR	Y	
$\bigcirc$	RB	11	Smooth Rose / Rosa blanda	#2 CONT NATIVE CULT		IVE CULTIVAR	Y	
	SM	10	White Meadowsweet / Spiraea alba	#2 CC	DNT	NAT	IVE CULTIVAR	Y
		64	SUBTOTAL:					
PERENNIA	LS							
$\mathbf{A}$	AT	75	Butterfly Milkweed / Asclepias tuberosa	#1 CC	DNT	NAT	IVE	Y
MUULUU MARKE	вс	45	Side Oats Grama / Bouteloua curtipendula	4" POT NATIVE		IVE	Y	
*	СВ	35	Bebb's Sedge / Carex bebbii	4" POT NATIVE		IVE	Y	
E:3	CR	38	Eastern Star Sedge / Carex radiata	4" PO	4" POT NATIVE		IVE	Y
	EP	28	Coneflower / Echinacea purpurea	#1 CC	#1 CONT NATIVE		IVE	Y
	RG	32	Black-eyed Susan / Rudbeckia fulgida sullivantii `Goldsturm`	#1 CC	DNT	NAT	IVE	Y
		253	SUBTOTAL:					1

## **IRRIGATION NOTES:**

- WEEK. SYSTEM SHALL EXTEND INTO THE PUBLIC RIGHT-OF-WAY TO THE EDGE OF PAVEMENT/BACK OF CURB.
- AND POWER CONNECTIONS.
- 6.

- CONNECTION.

- AREAS WHENEVER POSSIBLE.

- 22. USE SCREENS ON ALL HEADS.
- CONDITION.
- STRUCTURE.

1. ENTIRE SITE SHALL BE FULLY IRRIGATED. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. 2. PROVIDE SITE WIDE IRRIGATION SYSTEM DESIGN AND INSTALLATION. SYSTEM SHALL BE FULLY PROGRAMMABLE AND CAPABLE OF ALTERNATE DATE WATERING. THE SYSTEM SHALL PROVIDE HEAD TO HEAD OR DRIP COVERAGE AND BE CAPABLE OF DELIVERING ONE INCH OF PRECIPITATION PER

3. CONTRACTOR SHALL SECURE APPROVAL OF PROPOSED IRRIGATION SYSTEM INLCUDING PRICING FROM OWNER, PRIOR TO INSTALLATION.

4. SEE MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS FOR IRRIGATION WATER, METER,

5. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND/ABOVE GROUND FACILITIES PRIOR TO ANY EXCAVATION/INSTALLATION. ANY DAMAGE TO UNDERGROUND/ABOVE GROUND FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND COSTS ASSOCIATED WITH CORRECTING DAMAGES SHALL BE BORNE ENTIRELY BY THE CONTRACTOR.

SERVICE EQUIPMENT AND INSTALLATION SHALL BE PER LOCAL UTILITY COMPANY STANDARDS AND SHALL BE PER NATIONAL AND LOCAL CODES. EXACT LOCATION OF SERVICE EQUIPMENT SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT OR EQUIVALENT AT THE JOB SITE.

7. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR THE PROPOSED ELECTRICAL SERVICE AND METERING FACILITIES.

8. IRRIGATION WATER LINE CONNECTION SIZE IS  $1-\frac{1}{2}$ " AT BUILDING. VERIFY WITH MECHANICAL PLANS. 9. ALL MAIN LINES SHALL BE 18" BELOW FINISHED GRADE.

10. ALL LATERAL LINES SHALL BE 12" BELLOW FINISHED GRADE.

11. ALL EXPOSED PVC RISERS, IF ANY, SHALL BE GRAY IN COLOR.

12. CONTRACTOR SHALL LAY ALL SLEEVES AND CONDUIT AT 2'-0" BELOW THE FINISHED GRADE OF THE TOP OF PAVEMENT. EXTEND SLEEVES TO 2'-0" BEYOND PAVEMENT.

13. CONTRACTOR SHALL MARK THE LOCATION OF ALL SLEEVES AND CONDUIT WITH THE SLEEVING MATERIAL "ELLED" TO 2'-0" ABOVE FINISHED GRADE AND CAPPED.

14. FABRICATE ALL PIPE TO MANUFACTURE'S SPECIFICATIONS WITH CLEAN AND SQUARE CUT JOINTS. USE QUALITY GRADE PRIMER AND SOLVENT CEMENT FORMULATED FOR INTENDED TYPE OF

15. BACKFILL ALL TRENCHES WITH SOIL FREE OF SHARP OBJECTS AND DEBRIS.

16. ALL VALVE BOXES AND COVERS SHALL BE BLACK IN COLOR.

17. GROUP VALVE BOXES TOGETHER FOR EASE WHEN SERVICE IS REQUIRED. LOCATE IN PLANT BED

18. IRRIGATION CONTROLLER LOCATION SHALL BE VERIFIED ON-SITE WITH OWNER'S REPRESENTATIVE. 19. CONTROL WIRES: 14 GAUGE DIRECT BURIAL, SOLID COPPER IRRIGATION WIRE. RUN UNDER MAIN LINE. USE MOISTURE-PROOF SPLICES AND SPLICE ONLY AT VALVES OR PULL BOXES. RUN SEPARATE HOT AND COMMON WIRE TO EACH VALVE AND ONE (1) SPARE WIRE AND GROUND TO FURTHEST VALVE FROM CONTROLLER. LABEL OR COLOR CODE ALL WIRES.

20. AVOID OVER SPRAY ON BUILDINGS, PAVEMENT, WALLS AND ROADWAYS BY INDIVIDUALLY ADJUSTING RADIUS OR ARC ON SPRINKLER HEADS AND FLOW CONTROL ON AUTOMATIC VALVE.

21. ADJUST PRESSURE REGULATING VALVES FOR OPTIMUM PRESSURE ON SITE.

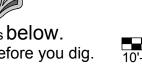
23. A SET OF AS-BUILT DRAWINGS SHALL BE MAINTAINED ON-SITE AT ALL TIMES IN AN UPDATED

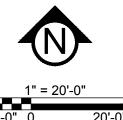
24. ALL PIPE 3" AND OVER SHALL HAVE THRUST BLOCKING AT EACH TURN.

25. ALL AUTOMATIC REMOTE CONTROL VALVES WILL HAVE 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL UNDERNEATH VALVE AND VALVE BOX. GRAVEL SHALL EXTENT 3" BEYOND PERIMETER OF VALVE BOX. 26. THERE SHALL BE 3" MINIMUM SPACE BETWEEN BOTTOM OF VALVE BOX COVER AND TOP OF VALVE

> SEE SHEET L1.0 FOR GENERAL LANDSCAPE NOTES & LEGEND







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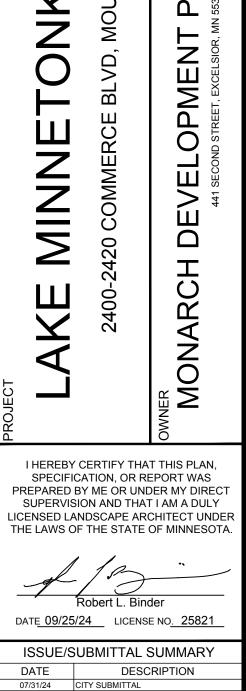
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DATE	DESCRIPTION
07/31/24	CITY SUBMITTAL
08/01/24	WATERSHED SUBMITTAL
08/27/24	CITY RESUBMITTAL
09/06/24	CITY/WATERSHED RESUBMITTAL
09/18/24	CITY RESUBMITTAL
09/25/24	WATERSHED RESUBMITTAL
DJECT MANAGER	MATT PAVEK
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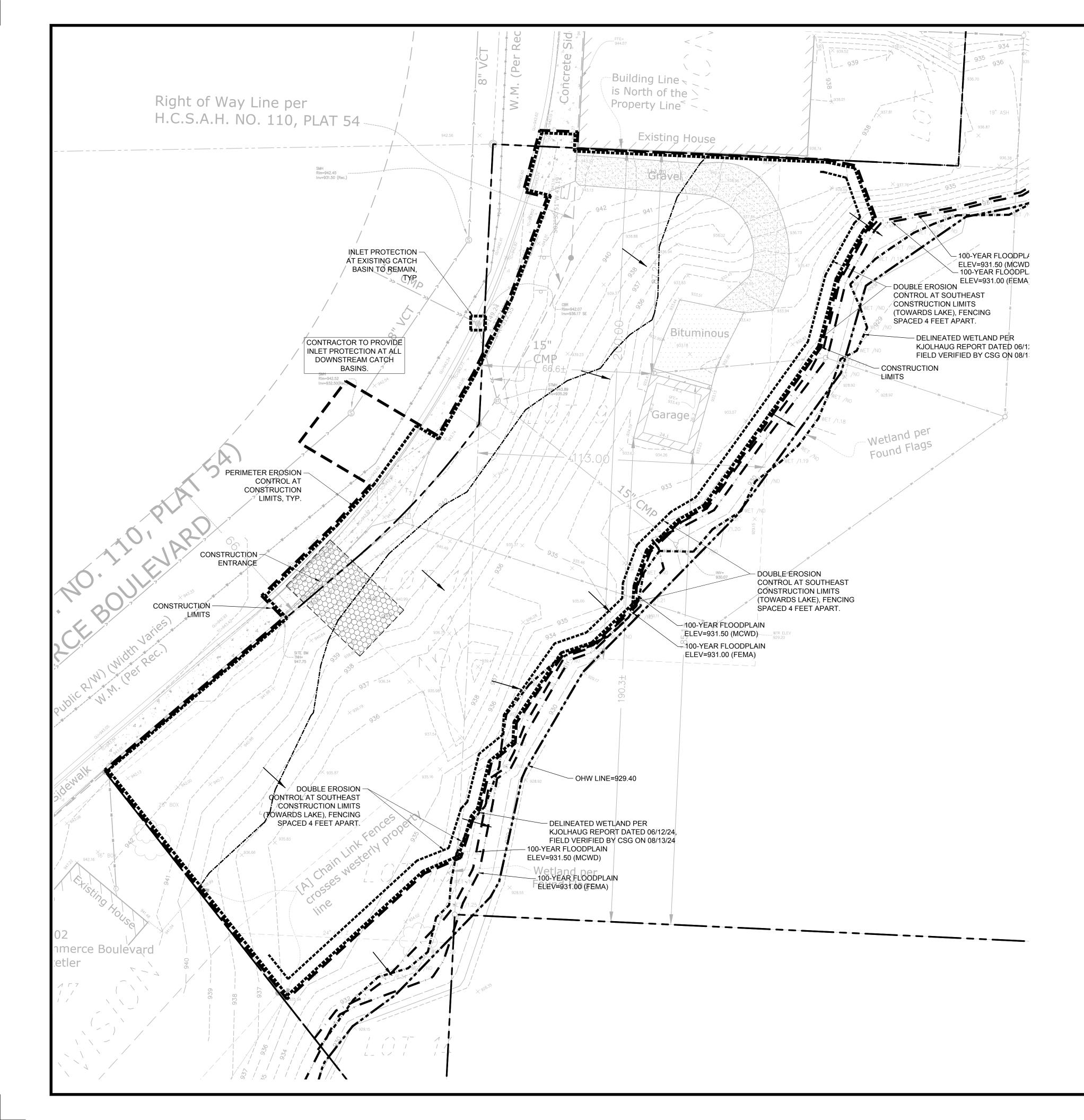
 b BY
 MP, RB
 **REVISION SUMMARY** 

DATE DESCRIPTION

LANDSCAPE PLAN NOTES & DETAILS



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



## SWPPP NOTES:

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- 2. THIS PROJECT IS GREATER THAN ONE ACRE AND WILL REQUIRE AN MPCA NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY EROSION CONTROL PERMITS REQUIRED BY THE CITY.
- 3. SEE SHEETS SW1.0 SW1.5 FOR ALL EROSION CONTROL NOTES, DESCRIPTIONS, AND PRACTICES.
- 4. SEE GRADING PLAN FOR ADDITIONAL GRADING AND EROSION CONTROL NOTES.
- 5. CONTRACTOR IS RESPONSIBLE FOR SWPPP IMPLEMENTATION, INSPECTIONS, AND COMPLIANCE WITH NPDES PERMIT.

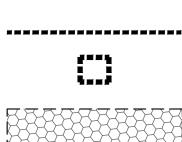
## CITY OF MOUND EROSION CONTROL NOTES:

1. RESERVED FOR CITY SPECIFIC EROSION CONTROL NOTES.

ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES, AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIREMENTS. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.



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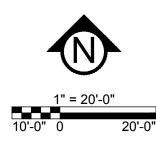


EX. 1' CONTOUR ELEVATION INTERVAL DRAINAGE ARROW

SILT FENCE / BIOROLL - GRADING LIMIT INLET PROTECTION

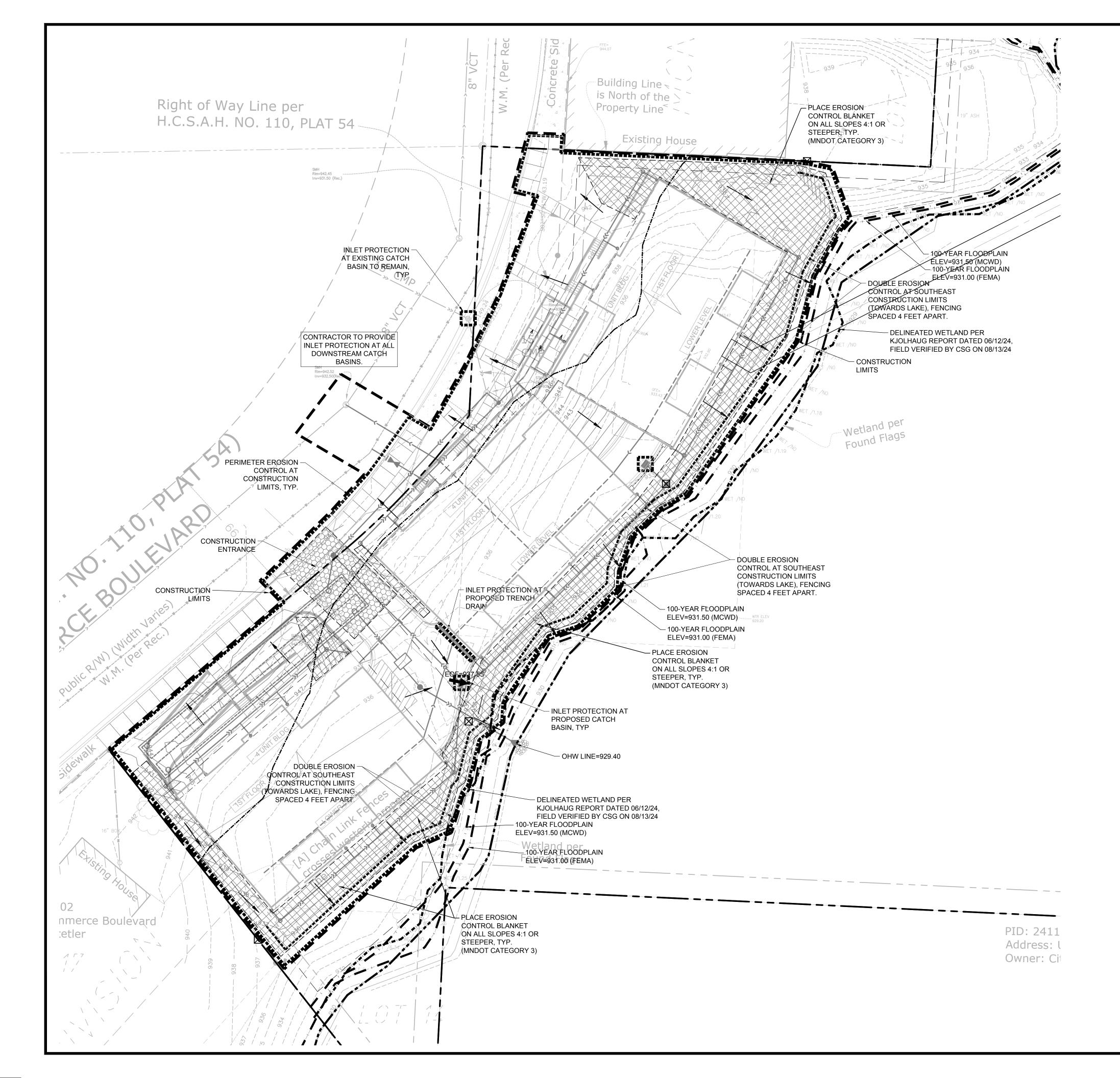
STABILIZED CONSTRUCTION ENTRANCE





5000	ering • Surveyi Architecture O Glenwood Av den Valley, MN civilsitegroup.c 612-615-00	venue 55422 om
LAKE MINNETONKA FLATS	2400-2420 COMMERCE BLVD, MOUND, MN 55364	OWNER MONARCH DEVELOPMENT PARTNERS, LLC 441 SECOND STREET, EXCELSIOR, MN 56331
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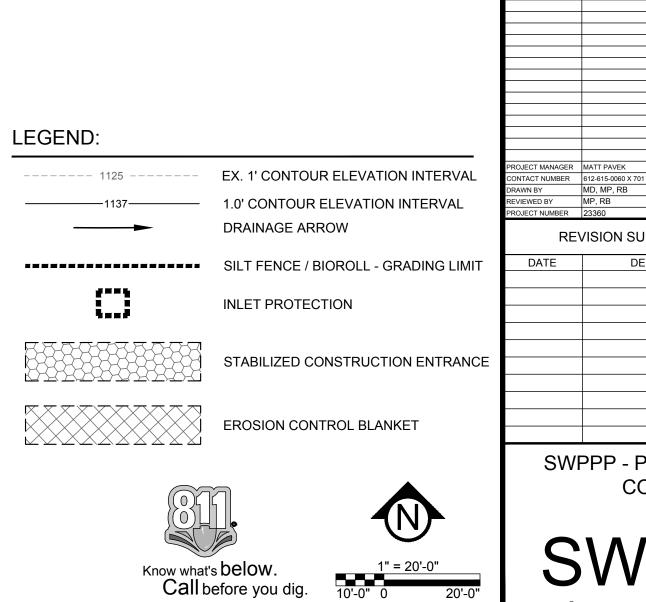
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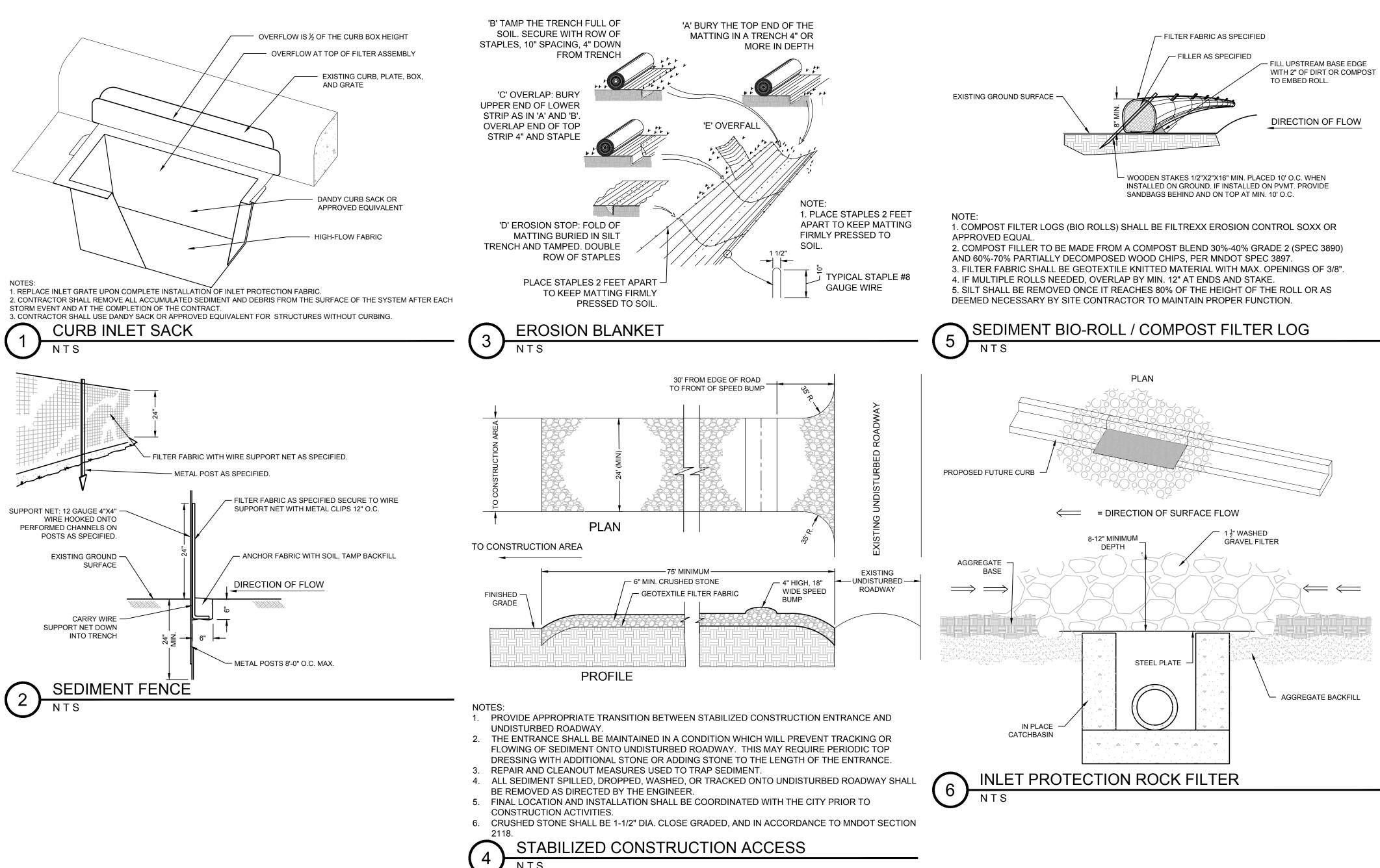
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ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES, AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIREMENTS. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.



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THE CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED WITH A CONSTRUCTION ACTIVITY THAT DISTURBS SITE SOIL OR WHO IMPLEMENT A POLLUTANT CONTROL MEASURE IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT (DATED AUGUST 1, 2018 # MNR100001) AND ANY LOCAL GOVERNING AGENCY HAVING JURISDICTION CONCERNING EROSION AND SEDIMENTATION CONTROL.

#### STORMWATER DISCHARGE DESIGN REQUIREMENTS

#### SWPPP

THE NATURE OF THIS PROJECT WILL BE CONSISTENT WITH WHAT IS REPRESENTED IN THIS SET OF CONSTRUCTION PLANS AND SPECIFICATIONS. SEE THE SWPPP PLAN SHEETS AND SWPPP NARRATIVE (ATTACHMENT A: CONSTRUCTION SWPPP TEMPLATE) FOR ADDITIONAL SITE SPECIFIC SWPPP INFORMATION. THE PLANS SHOW LOCATIONS AND TYPES OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMP'S. STANDARD DETAILS ARE ATTACHED TO THIS SWPPP DOCUMENT.

- THE INTENDED SEQUENCING OF MAJOR CONSTRUCTION ACTIVITIES IS AS FOLLOWS:
- 1. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE 2 INSTALLATION OF SILT FENCE ABOUND SITE
- 3. INSTALL ORANGE CONSTRUCTION FENCING AROUND INFILTRATION AREAS
- 4. INSTALL INLET PROTECTION AT ALL ADJACENT AND DOWNSTREAM CATCH BASINS
- 5. CLEAR AND GRUB FOR TEMPORARY SEDIMENT BASIN / POND INSTALL 6. CONSTRUCT TEMPORARY SEDIMENT BASIN / POND (SECTION 14)
- 7. CLEAR AND GRUB REMAINDER OF SITE
- 8. STRIP AND STOCKPILE TOPSOIL
- 9. ROUGH GRADING OF SITE 10. STABILIZE DENUDED AREAS AND STOCKPILES
- 11. INSTALL SANITARY SEWER, WATER MAIN STORM SEWER AND SERVICES
- 12. INSTALL SILT FENCE / INLET PROTECTION AROUND CB'S
- 13. INSTALL STREET SECTION
- 14. INSTALL CURB AND GUTTER 15. BITUMINOUS ON STREETS
- 16. FINAL GRADE BOULEVARD, INSTALL SEED AND MULCH
- 17. REMOVE ACCUMULATED SEDIMENT FROM BASIN / POND
- 18. FINAL GRADE POND / INFILTRATION BASINS (DO NOT COMPACT SOILS IN INFILTRATION AREAS.) 19. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED BY EITHER SEED OR SOD/LANDSCAPING. REMOVE SILT FENCE AND RESEED ANY AREAS DISTURBED BY THE REMOVAL

#### **RECORDS RETENTION:**

THE SWPPP (ORIGINAL OR COPIES) INCLUDING, ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THAT PORTION OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER THE FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS.

ALL OWNER(S) MUST KEEP THE SWPPP, ALONG WITH THE FOLLOWING ADDITIONAL RECORDS, ON FILE FOR THREE (3) YEARS AFTER SUBMITTAL OF THE NOT AS OUTLINED IN SECTION 4. THIS DOES NOT INCLUDE ANY RECORDS AFTER SUBMITTAL OF THE NOT.

- 1 THE FINAL SWPPP
- 2. ANY OTHER STORMWATER RELATED PERMITS REQUIRED FOR THE PROJECT;
- 3. RECORDS OF ALL INSPECTION AND MAINTENANCE CONDUCTED DURING CONSTRUCTION (SEE SECTION 11, INSPECTIONS AND MAINTENANCE):
- 4. ALL PERMANENT OPERATION AND MAINTENANCE AGREEMENTS THAT HAVE BEEN IMPLEMENTED, INCLUDING ALL RIGHT OF WAY, CONTRACTS, COVENANTS AND OTHER BINDING REQUIREMENTS REGARDING PERPETUAL MAINTENANCE; AND
- 5. ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT STORMWATER MANAGEMENT SYSTEMS.

SWPPP IMPLEMENTATION RESPONSIBILITIES:

- 1. THE OWNER AND CONTRACTOR ARE PERMITTEE(S) AS IDENTIFIED BY THE NPDES PERMIT.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE IMPLEMENTATION OF THE SWPPP, INCLUDING
- THE ACTIVITIES OF ALL OF THE CONTRACTOR'S SUBCONTRACTORS. 3. CONTRACTOR SHALL PROVIDE A PERSON(S) KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS TO OVERSEE ALL INSTALLATION AND MAINTENANCE OF BMPS AND IMPLEMENTATION OF THE SWPPP
- 4. CONTRACTOR SHALL PROVIDE PERSON(S) MEETING THE TRAINING REQUIREMENTS OF THE NPDES PERMIT TO CONDUCT INSPECTION AND MAINTENANCE OF ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMIT. ONE OF THESE INDIVIDUAL(S) MUST BE AVAILABLE FOR AN ONSITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY MPCA. CONTRACTOR SHALL PROVIDE TRAINING DOCUMENTATION FOR THESE INDIVIDUAL(S) AS REQUIRED BY THE NPDES PERMIT. THIS TRAINING DOCUMENTATION SHALL BE RECORDED IN OR WITH THE SWPPP BEFORE THE START OF CONSTRUCTION OR AS SOON AS THE PERSONNEL FOR THE PROJECT HAVE BEEN DETERMINED. DOCUMENTATION SHALL INCLUDE:
- 4.1. NAMES OF THE PERSONNEL ASSOCIATED WITH THE PROJECT THAT ARE REQUIRED TO BE TRAINED PER SECTION 21 OF THE PERMIT
- 4.2. DATES OF TRAINING AND NAME OF INSTRUCTOR AND ENTITY PROVIDING TRAINING. 4.3 CONTENT OF TRAINING COURSE OR WORKSHOP INCLUDING THE NUMBER OF HOURS OF TRAINING. 5. FOLLOWING FINAL STABILIZATION AND THE TERMINATION OF COVERAGE FOR THE NPDES PERMIT, THE OWNER IS EXPECTED TO FURNISH LONG TERM OPERATION AND MAINTENANCE (O & M) OF THE PERMANENT STORM WATER MANAGEMENT SYSTEM.

#### CONSTRUCTION ACTIVITY REQUIREMENTS

SWPPP AMENDMENTS (SECTION 6):

- 1. ONE OF THE INDIVIDUALS DESCRIBED IN ITEM 21.2.A OR ITEM 21.2.B OR ANOTHER QUALIFIED INDIVIDUAL MUST COMPLETE ALL SWPPP CHANGES. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP MUST INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
- 2. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN. CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS HAVING A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
- 3. PERMITTEES MUST AMEND THE SWPPP TO INCLUDE ADDITIONAL OR MODIFIED BMPS AS NECESSARY TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER OR OPERATOR, USEPA OR MPCA OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER OR THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES (E.G., NUISANCE CONDITIONS AS DEFINED IN MINN. R. 7050.0210, SUBP. 2) OR THE SWPPP IS NOT CONSISTENT WITH THE OBJECTIVES OF A USEPA APPROVED TMDL.

BMP SELECTION AND INSTALLATION (SECTION 7):

1. PERMITTEES MUST SELECT, INSTALL, AND MAINTAIN THE BMPS IDENTIFIED IN THE SWPPP AND IN THIS PERMIT IN AN APPROPRIATE AND FUNCTIONAL MANNER AND IN ACCORDANCE WITH RELEVANT MANUFACTURER SPECIFICATIONS AND ACCEPTED ENGINEERING PRACTICES.

#### **EROSION PREVENTION (SECTION 8):**

- 1. BEFORE WORK BEGINS, PERMITTEES MUST DELINEATE THE LOCATION OF AREAS NOT TO BE DISTURBED. 2. PERMITTEES MUST MINIMIZE THE NEED FOR DISTURBANCE OF PORTIONS OF THE PROJECT WITH STEEP SLOPES. WHEN STEEP SLOPES MUST BE DISTURBED, PERMITTEES MUST USE TECHNIQUES SUCH AS PHASING AND STABILIZATION PRACTICES DESIGNED FOR STEEP SLOPES (E.G., SLOPE DRAINING AND TERRACING).
- 3. PERMITTEES MUST STABILIZE ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHEN CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED NO LATER THAN 14 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS CEASED. STABILIZATION IS NOT REQUIRED ON CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS AND SIMILAR SURFACES. STABILIZATION IS NOT REQUIRED ON TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) BUT PERMITTEES MUST PROVIDE SEDIMENT CONTROLS AT THE BASE OF THE STOCKPILE.
- 4. FOR PUBLIC WATERS THAT THE MINNESOTA DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES, PERMITTEES MUST COMPLETE STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 200 FEET OF THE WATER'S EDGE, AND THAT DRAIN TO THESE WATERS, WITHIN 24 HOURS DURING THE RESTRICTION PERIOD.
- 5. PERMITTEES MUST STABILIZE THE NORMAL WETTED PERIMETER OF THE LAST 200 LINEAR FEET OF TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES THAT DRAIN WATER FROM THE SITE WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE. PERMITTEES MUST COMPLETE STABILIZATION OF REMAINING PORTIONS OF TEMPORARY OR PERMANENT DITCHES OR SWALES WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH TEMPORARILY OR PERMANENTLY CEASES.
- 6. TEMPORARY OR PERMANENT DITCHES OR SWALES BEING USED AS A SEDIMENT CONTAINMENT SYSTEM DURING CONSTRUCTION (WITH PROPERLY DESIGNED ROCK-DITCH CHECKS, BIO ROLLS, SILT DIKES, ETC.) DO NOT NEED TO BE STABILIZED. PERMITTEES MUST STABILIZE THESE AREAS WITHIN 24 HOURS AFTER THEIR USE AS A SEDIMENT CONTAINMENT SYSTEM CEASES
- 7. PERMITTEES MUST NOT USE MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE OR SIMILAR EROSION

#### PREVENTION PRACTICES WITHIN ANY PORTION OF THE NORMAL WETTED PERIMETER OF A TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE SECTION WITH A CONTINUOUS SLOPE OF GREATER THAN 2

- PERCENT. 8. PERMITTEES MUST PROVIDE TEMPORARY OR PERMANENT ENERGY DISSIPATION AT ALL PIPE OUTLETS WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER OR PERMANENT STORMWATER TREATMENT SYSTEM
- 9. PERMITTEES MUST NOT DISTURB MORE LAND (I.E., PHASING) THAN CAN BE EFFECTIVELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH SECTION 11.

#### SEDIMENT CONTROL (SECTION 9):

- 1. PERMITTEES MUST ESTABLISH SEDIMENT CONTROL BMPS ON ALL DOWNGRADIENT PERIMETERS OF THE SITE AND DOWNGRADIENT AREAS OF THE SITE THAT DRAIN TO ANY SURFACE WATER, INCLUDING CURB AND GUTTER SYSTEMS. PERMITTEES MUST LOCATE SEDIMENT CONTROL PRACTICES UPGRADIENT OF ANY BUFFER ZONES. PERMITTEES MUST INSTALL SEDIMENT CONTROL PRACTICES BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND MUST KEEP THE SEDIMENT CONTROL PRACTICES IN PLACE UNTIL THEY ESTABLISH PERMANENT COVER.
- 2. IF DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED, BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENTS, PERMITTEES MUST INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES AS REQUIRED IN ITEM 6.3.
- 3. TEMPORARY OR PERMANENT DRAINAGE DITCHES AND SEDIMENT BASINS DESIGNED AS PART OF A SEDIMENT CONTAINMENT SYSTEM (E.G., DITCHES WITH ROCK-CHECK DAMS) REQUIRE SEDIMENT CONTROL PRACTICES ONLY AS APPROPRIATE FOR SITE CONDITIONS.
- 4. A FLOATING SILT CURTAIN PLACED IN THE WATER IS NOT A SEDIMENT CONTROL BMP TO SATISFY ITEM 9.2 EXCEPT WHEN WORKING ON A SHORELINE OR BELOW THE WATERLINE. IMMEDIATELY AFTER THE SHORT TERM CONSTRUCTION ACTIVITY (E.G., INSTALLATION OF RIP RAP ALONG THE SHORELINE) IN THAT AREA IS COMPLETE, PERMITTEES MUST INSTALL AN UPLAND PERIMETER CONTROL PRACTICE IF EXPOSED SOILS STILL DRAIN TO A SURFACE WATER.
- 5. PERMITTEES MUST RE-INSTALL ALL SEDIMENT CONTROL PRACTICES ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING OR GRUBBING, OR PASSAGE OF VEHICLES, IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY IS COMPLETED. PERMITTEES MUST RE-INSTALL SEDIMENT CONTROL PRACTICES BEFORE THE NEXT PRECIPITATION EVENT EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE
- 6. PERMITTEES MUST PROTECT ALL STORM DRAIN INLETS USING APPROPRIATE BMPS DURING CONSTRUCTION UNTIL THEY ESTABLISH PERMANENT COVER ON ALL AREAS WITH POTENTIAL FOR DISCHARGING TO THE INI ET
- 7. PERMITTEES MAY REMOVE INLET PROTECTION FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (E.G. STREET FLOODING/FREEZING) IS IDENTIFIED BY THE PERMITTEES OR THE JURISDICTIONAL AUTHORITY (E.G., CITY/COUNTY/TOWNSHIP/MINNESOTA DEPARTMENT OF TRANSPORTATION ENGINEER). PERMITTEES MUST DOCUMENT THE NEED FOR REMOVAL IN THE SWPPP. 8. PERMITTEES MUST PROVIDE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AT THE BASE OF
- STOCKPILES ON THE DOWNGRADIENT PERIMETER. 9. PERMITTEES MUST LOCATE STOCKPILES OUTSIDE OF NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS UNLESS THERE IS A BYPASS IN PLACE FOR THE STORMWATER.
- 10. PERMITTEES MUST INSTALL A VEHICLE TRACKING BMP TO MINIMIZE THE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE OR ONTO PAVED ROADS WITHIN THE SITE. 11. PERMITTEES MUST USE STREET SWEEPING IF VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO THE STREET.
- 12. PERMITTEES MUST INSTALL TEMPORARY SEDIMENT BASINS AS REQUIRED IN SECTION 14. 13. IN ANY AREAS OF THE SITE WHERE FINAL VEGETATIVE STABILIZATION WILL OCCUR, PERMITTEES MUST RESTRICT VEHICLE AND EQUIPMENT USE TO MINIMIZE SOIL COMPACTION.
- 14. PERMITTEES MUST PRESERVE TOPSOIL ON THE SITE, UNLESS INFEASIBLE. 15. PERMITTEES MUST DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS UNLESS INFEASIBLE. 16. PERMITTEES MUST PRESERVE A 50 FOOT NATURAL BUFFER OR, IF A BUFFER IS INFEASIBLE ON THE SITE, PROVIDE REDUNDANT (DOUBLE) PERIMETER SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER. PERMITTEES MUST INSTALL PERIMETER SEDIMENT CONTROLS AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE. NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD
- DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS. IF PRESERVING THE BUFFER IS INFEASIBLE, PERMITTEES MUST DOCUMENT THE REASONS IN THE SWPPP. SHEET PILING IS A REDUNDANT PERIMETER CONTROL IF INSTALLED IN A MANNER THAT RETAINS ALL STORMWATER. 17. PERMITTEES MUST USE POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER. THE PERMITTEES
- MUST USE CONVENTIONAL EROSION AND SEDIMENT CONTROLS PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROL SYSTEM FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE

DEWATERING AND BASIN DRAINING (SECTION 10):

- 1. PERMITTEES MUST DISCHARGE TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G., PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) TO A TEMPORARY OR PERMANENT SEDIMENT BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. PERMITTEES MAY DEWATER TO SURFACE WATERS IF THEY VISUALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS (SEE MINN, R. 7050.0210, SUBP. 2) WILL NOT RESULT FROM THE DISCHARGE. IF PERMITTEES CANNOT DISCHARGE THE WATER TO A SEDIMENTATION BASIN PRIOR TO ENTERING A SURFACE WATER, PERMITTEES MUST TREAT IT WITH APPROPRIATE BMPS SUCH THAT THE DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES.
- 2. IF PERMITTEES MUST DISCHARGE WATER CONTAINING OIL OR GREASE, THEY MUST USE AN OIL-WATER SEPARATOR OR SUITABLE FILTRATION DEVICE (E.G., CARTRIDGE FILTERS, ABSORBENTS PADS) PRIOR TO DISCHARGE
- 3. PERMITTEES MUST DISCHARGE ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES IN A MANNER THAT DOES NOT CAUSE EROSION OR SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS OR INUNDATION OF WETLANDS IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS THAT CAUSES SIGNIFICANT ADVERSE IMPACT TO THE WETLAND.
- 4. IF PERMITTEES USE FILTERS WITH BACKWASH WATER. THEY MUST HAUL THE BACKWASH WATER AWAY FOR DISPOSAL, RETURN THE BACKWASH WATER TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATE THE BACKWASH WATER INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION.

INSPECTIONS AND MAINTENANCE (SECTION 11):

- 1. PERMITTEES MUST ENSURE A TRAINED PERSON, AS IDENTIFIED IN ITEM 21.2.B, WILL INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 1/2 INCH IN 24 HOURS.
- 2. PERMITTEES MUST INSPECT AND MAINTAIN ALL PERMANENT STORMWATER TREATMENT BMPS. 3. PERMITTEES MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS. PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL NONFUNCTIONAL BMPS WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS ANOTHER TIME FRAME IS SPECIFIED IN ITEM 11.5 OR
- 11.6. PERMITTEES MAY TAKE ADDITIONAL TIME IF FIELD CONDITIONS PREVENT ACCESS TO THE AREA. 4. DURING EACH INSPECTION, PERMITTEES MUST INSPECT SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS BUT NOT CURB AND GUTTER SYSTEMS, FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. PERMITTEES MUST REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS AND RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. PERMITTEES MUST COMPLETE REMOVAL AND STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. PERMITTEES MUST USE ALL REASONABLE EFFORTS TO OBTAIN ACCESS. IF PRECLUDED, REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF OBTAINING ACCESS. PERMITTEES ARE RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND
- RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS. 5. PERMITTEES MUST INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND CURB AND GUTTER SYSTEMS WITHIN AND ADJACENT TO THE PROJECT FOR SEDIMENTATION FROM EROSION OR TRACKED SEDIMENT FROM VEHICLES. PERMITTEES MUST REMOVE SEDIMENT FROM ALL PAVED SURFACES WITHIN ONE (1) CALENDAR DAY OF DISCOVERY OR, IF APPLICABLE, WITHIN A SHORTER TIME TO AVOID A SAFETY HAZARD TO USERS OF PUBLIC STREETS.
- 6. PERMITTEES MUST REPAIR, REPLACE OR SUPPLEMENT ALL PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE. 7. PERMITTEES MUST DRAIN TEMPORARY AND PERMANENT SEDIMENTATION BASINS AND REMOVE THE
- SEDIMENT WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME 8. PERMITTEES MUST ENSURE THAT AT LEAST ONE INDIVIDUAL PRESENT ON THE SITE (OR AVAILABLE TO
- THE PROJECT SITE IN THREE (3) CALENDAR DAYS) IS TRAINED IN THE JOB DUTIES DESCRIBED IN ITEM 21.2.B.
- 9. PERMITTEES MAY ADJUST THE INSPECTION SCHEDULE DESCRIBED IN ITEM 11.2 AS FOLLOWS: a. INSPECTIONS OF AREAS WITH PERMANENT COVER CAN BE REDUCED TO ONCE PER MONTH, EVEN IF
- CONSTRUCTION ACTIVITY CONTINUES ON OTHER PORTIONS OF THE SITE; OR b. WHERE SITES HAVE PERMANENT COVER ON ALL EXPOSED SOIL AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES. THE
- MPCA MAY REQUIRE INSPECTIONS TO RESUME IF CONDITIONS WARRANT; OR c. WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED. INSPECTIONS MUST RESUME WITHIN 24 HOURS OF RUNOFF OCCURRING, OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.
- 10. PERMITTEES MUST RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS MUST BE RETAINED WITH THE SWPPP. THESE RECORDS MUST INCLUDE
- a. DATE AND TIME OF INSPECTIONS; AND

b. NAME OF PERSONS CONDUCTING INSPECTIONS; AND

c. ACCURATE FINDINGS OF INSPECTIONS, INCLUDING THE SPECIFIC LOCATION WHERE CORRECTIVE ACTIONS ARE NEEDED; AND d. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE

- ACTIVITIES); AND e. DATE OF ALL RAINFALL EVENTS GREATER THAN 1/2 INCHES IN 24 HOURS, AND THE AMOUNT OF RAINFALL FOR EACH EVENT. PERMITTEES MUST OBTAIN RAINFALL AMOUNTS BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION THAT IS WITHIN ONE (1) MILE OF YOUR LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES; AND
- f. IF PERMITTEES OBSERVE A DISCHARGE DURING THE INSPECTION, THEY MUST RECORD AND SHOULD PHOTOGRAPH AND DESCRIBE THE LOCATION OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS); AND
- g. ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION MUST BE DOCUMENTED AS REQUIRED IN SECTION 6 WITHIN SEVEN (7) CALENDAR DAYS.

POLLUTION PREVENTION MANAGEMENT (SECTION 12):

- 1. PERMITTEES MUST PLACE BUILDING PRODUCTS AND LANDSCAPE MATERIALS UNDER COVER (E.G. PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER. PERMITTEES ARE NOT REQUIRED TO COVER OR PROTECT PRODUCTS WHICH ARE EITHER NOT A SOURCE OF CONTAMINATION TO STORMWATER OR ARE DESIGNED TO BE EXPOSED TO STORMWATER.
- 2. PERMITTEES MUST PLACE PESTICIDES, FERTILIZERS AND TREATMENT CHEMICALS UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) OR PROTECT THEM BY SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
- 3. PERMITTEES MUST STORE HAZARDOUS MATERIALS AND TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE. 4. PERMITTEES MUST PROPERLY STORE, COLLECT AND DISPOSE SOLID WASTE IN COMPLIANCE WITH MINN.
- R. CH. 7035. 5. PERMITTEES MUST POSITION PORTABLE TOILETS SO THEY ARE SECURE AND WILL NOT TIP OR BE KNOCKED OVER. PERMITTEES MUST PROPERLY DISPOSE SANITARY WASTE IN ACCORDANCE WITH MINN. R. CH. 7041.
- 6. PERMITTEES MUST TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE. PERMITTEES MUST ENSURE ADEQUATE SUPPLIES ARE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS. PERMITTEES MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINN. STAT. 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE.
- 7. PERMITTEES MUST LIMIT VEHICLE EXTERIOR WASHING AND EQUIPMENT TO A DEFINED AREA OF THE SITE. PERMITTEES MUST CONTAIN RUNOFF FROM THE WASHING AREA IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND MUST DISPOSE WASTE FROM THE WASHING ACTIVITY PROPERLY. PERMITTEES MUST PROPERLY USE AND STORE SOAPS, DETERGENTS, OR SOLVENTS.
- 8. PERMITTEES MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. PERMITTEES MUST PREVENT LIQUID AND SOLID WASHOUT WASTES FROM CONTACTING THE GROUND AND MUST DESIGN THE CONTAINMENT SO IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS. PERMITTEES MUST PROPERLY DISPOSE LIQUID AND SOLID WASTES IN COMPLIANCE WITH MPCA RULES. PERMITTEES MUST INSTALL A SIGN INDICATING THE LOCATION OF THE WASHOUT FACILITY.

#### PERMIT TERMINATION (SECTION 4 AND SECTION 13):

- 1. PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER ALL TERMINATION CONDITIONS LISTED IN SECTION 13 ARE COMPLETE.
- 2. PERMITTEES MUST SUBMIT A NOT WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE, INCLUDING PERMIT RESPONSIBILITY FOR ROADS (E.G., STREET SWEEPING) AND STORMWATER INFRASTRUCTURE FINAL CLEAN OUT, OR TRANSFERRING PORTIONS OF A SITE TO ANOTHER PARTY. THE PERMITTEES' COVERAGE UNDER THIS PERMIT TERMINATES AT MIDNIGHT ON THE SUBMISSION DATE OF THE NOT.
- 3. PERMITTEES MUST COMPLETE ALL CONSTRUCTION ACTIVITY AND MUST INSTALL PERMANENT COVER OVER ALL AREAS PRIOR TO SUBMITTING THE NOT. VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70 PERCENT OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION, SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER.
- 4. PERMITTEES MUST CLEAN THE PERMANENT STORMWATER TREATMENT SYSTEM OF ANY ACCUMULATED SEDIMENT AND MUST ENSURE THE SYSTEM MEETS ALL APPLICABLE REQUIREMENTS IN SECTION 15 THROUGH 19 AND IS OPERATING AS DESIGNED.
- 5. PERMITTEES MUST REMOVE ALL SEDIMENT FROM CONVEYANCE SYSTEMS PRIOR TO SUBMITTING THE
- 6. PERMITTEES MUST REMOVE ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS PRIOR TO SUBMITTING THE NOT. PERMITTEES MAY LEAVE BMPS DESIGNED TO DECOMPOSE ON-SITE IN PLACE.
- 7. FOR RESIDENTIAL CONSTRUCTION ONLY, PERMIT COVERAGE TERMINATES ON INDIVIDUAL LOTS IF THE STRUCTURES ARE FINISHED AND TEMPORARY EROSION PREVENTION AND DOWNGRADIENT PERIMETER CONTROL IS COMPLETE, THE RESIDENCE SELLS TO THE HOMEOWNER, AND THE PERMITTEE DISTRIBUTES THE MPCA'S "HOMEOWNER FACT SHEET" TO THE HOMEOWNER.
- 8. FOR CONSTRUCTION PROJECTS ON AGRICULTURAL LAND (E.G., PIPELINES ACROSS CROPLAND), PERMITTEES MUST RETURN THE DISTURBED LAND TO ITS PRECONSTRUCTION AGRICULTURAL USE PRIOR TO SUBMITTING THE NOT

SEED NOTES:

ALL SEED MIXES AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MNDOT SEEDING MANUAL.

#### GENERAL RECOMMENDATIONS:

THE CONTRACTOR IS RESPONSIBLE TO SALVAGE AND PRESERVE EXISTING TOPSOIL NECESSARY FOR FINAL STABILIZATION AND TO ALSO MINIMIZE COMPACTION IN ALL LANDSCAPE AREAS. IMMEDIATELY BEFORE SEEDING THE SOIL SHALL BE TILLED TO A MINIMUM DEPTH OF 3 INCHES.

TEMPORARY EROSION CONTROL SEEDING, MULCHING & BLANKET.

 TEMPORARY SEED SHALL BE MNDOT SEED MIX 21-112 (WINTER WHEAT COVER CROP) FOR WINTER AND 21-111 (OATS COVER CROP) FOR SPRING/SUMMER APPLICATIONS. BOTH SEED MIXES SHALL BE APPLIED AT A SEEDING RATE OF 100 LBS/ACRE.

#### MULCH

 IMMEDIATELY AFTER SEEDING, WITHIN 24 HOURS, MNDOT TYPE 1 MULCH SHOULD BE APPLIED TO PROTECT AND ENHANCE SEED GERMINATION. MULCH SHALL BE APPLIED AT 90% COVERAGE (2 TONS PER ACRE OF STRAW MULCH)

SLOPES

- 3:1 (HORIZ/VERT.) OR FLATTER MUCH SHALL BE COVERED WITH MULCH
- SLOPES STEEPER THAN 3:1 OR DITCH BOTTOMS SHALL BE COVERED WITH EROSION CONTROL BLANKET. SEE PLAN FOR MORE DETAILED DITCH AND STEEP SLOPE EROSION CONTROL TREATMENTS

## TRAINING SECTION 21

DESIGN ENGINEER: DAVID J. KNAEBLE P.E. TRAINING COURSE: DESIGN OF SWPPP TRAINING ENTITY: UNIVERSITY OF MINNESOTA INSTRUCTOR: JOHN CHAPMAN DATES OF TRAINING COURSE: 8/22/2012- 8/23/2012 TOTAL TRAINING HOURS: 12 DATE OF RECERTIFICATION: 4/22/22 EXPIRATION: 5/31/2025

### AREAS AND QUANTITIES:

		_ • ·					
SITE AREA CALCULATIONS							
		EXISTING CO	NDITION		PROPOSED CO	ONDITION	
IMPERVIOUS SURFACES							
BUILDING COVERAGE		632 SF	1.1%		16,516 SF	28.4%	
PAVEMENT		2,414 SF	4.1%		5,869 SF	10.1%	
	TOTAL	3,046 SF	5.2%	0.0 AC	22,385 SF	38.5%	0.51 AC
PERVIOUS SURFACES							
	TOTAL	55,158 SF	94.8%	1.3 AC	35,819 SF	61.5%	0.8 AC
TOTAL SITE AREA (SURVE)	YED LINE						
EXCLUDING COUN	TY ROW)	343,555 SF		7.9 AC	343,555 SF		7.9 AC
TOTAL SITE AREA (ABOVE	OHW)	58,204 SF	100.0%	1.3 AC	58,204 SF	100.0%	1.3 AC
DIFFERENCE (EX. VS PROP	.)	19,339 SF	33.2%				
DISTURBED AREA		39,156 SF	0.9	AC	67%		
EROSION CONTROL QUAN	TITIES						
DISTURBED AREA		39,156 SF					
SILT FENCE/BIO-ROLL		±1400 LF					
EROSION CONTROL BLANK	KET	8,294 SF					

INLET PROTECTION DEVICES ±3 EA NOTE: QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL DETERMINE FOR THEMSELVES THE EXACT QUANTITIES FOR BIDDING AND CONSTRUCTION.

#### SWPPP CONTACT PERSON

CONTRACTOR:

## PARTY RESPONSIBLE FOR LONG TERM OPERATION AND MAINTENANCE OF PERMANENT STORM WATER MANAGEMENT SYSTEM

PERMANENT STORMWATER MANAGEMENT IS NOT REQUIRED AS PART OF THIS PROJECT TO MEET NPDES PERMIT REQUIREMENTS. THE PROPERTY OWNER IS RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PROPOSED STORMWATER SYSTEM.

## SWPPP ATTACHMENTS (ONLY APPLICABLE IF SITE IS 1 ACRE OR GREATER)

CONTRACTOR SHALL OBTAIN A COPY OF THE FOLLOWING SWPPP ATTACHMENTS WHICH ARE A PART OF THE OVERALL

SWPPP PACKAGE: ATTACHMENT A. CONSTRUCTION SWPPP TEMPLATE - SITE SPECIFIC SWPPP DOCUMENT ATTACHMENT B. CONSTRUCTION STORMWATER INSPECTION CHECKLIST ATTACHMENT C. MAINTENANCE PLAN FOR PERMANENT STORM WATER TREATMENT SYSTEMS ATTACHMENT D: STORMWATER MANAGEMENT REPORT - ON FILE AT THE OFFICE OF PROJECT ENGINEER. AVAILABLE UPON REQUEST. ATTACHMENT E: GEOTECHNICAL EVALUATION REPORT - ON FILE AT THE OFFICE OF PROJECT ENGINEER. AVAILABLE UPON REQUEST.

#### SUPPLEMENTARY SITE SPECIFIC EROSION CONTROL NOTES: THESE NOTES SUPERCEDE ANY GENERAL SWPPP NOTES

THIS PROJECT IS GREATER THAN 1.0 ACRES SO AN NPDES PERMIT IS REQUIRED AND NEEDS TO BE SUBMITTED TO THE MPCA. THE CONTRACTOR IS REQUIRED TO FOLLOW THE GUIDELINES IN THE NPDES PERMIT THROUGHOUT CONSTRUCTION.

## PROJECT NARRATIVE:

PROJECT IS THE REDEVELOPMENT OF AN EXISTING VACATED LOT INTO 3 ROWHOMES. SITE, GRADING, UTILITY AND LANDSCAPE IMPROVEMENTS WILL OCCUR.

## NATIVE BUFFER NARRATIVE:

PRESERVING A 50 FOOT NATURAL BUFFER AROUND WATER BODIES IS PROVIDED IN THESE PLANS.

INFILTRATION NARRATIVE:

INFILTRATION IS NOT PROVIDED AS PART OF THE PROJECT'S PERMANENT STORMWATER MANAGEMENT SYSTEM DUE TO THE TYPES OF SOILS PRESENT. THE SOILS PRESENT ARE CONSIDERED HYDROLOGIC SOIL GROUP "D" AND ARE NOT CONDUCIVE TO INFILTRATION. FILTRATION WILL BE PROVIDED IN LIEU OF INFILTRATION.

SOIL CONTAMINATION NARRATIVE:

SOILS ONSITE HAVE NOT BEEN IDENTIFIED AS CONTAMINATED.

## SPECIAL TMDL BMP REQUIREMENTS SITE SPECIFIC (IF REQUIRED):

THIS PROJECT IS WITHIN ONE MILE AND DISCHARGES TO MINNETONKA UPPER LAKE - MINNETONKA UPPER LAKE IS IDENTIFIED AS AN IMPAIRED WATER BODY PER THE MPCA'S 303(D) IMPAIRED WATERS LIST. MINNETONKA UPPER LAKE IS IMPAIRED FOR MERCURY IN FISH TISSUE. THIS IMPAIRMENT IS CONSIDERED A NON-CONSTRUCTION RELATED ISSUE AND DOES NOT REQUIRE ANY ADDITIONAL BMPS. BECAUSE THIS WATER BODY IS LOCATED WITHIN ONE MILE OF THE SITE, BMPS AS DEFINED IN THE NPDES PERMIT ITEMS 23.9 AND 23.10 APPLY. THESE ARE AS FOLLOWS:

#### 1. DURING CONSTRUCTION:

PERMANENT STABILIZATION NOTES SITE SPECIFIC:

#### PERMANENT SEED MIX

- PERMANENT SEED MIX.
- ••
- SOUTH AND WEST) AT 35 LBS PER ACRE. DRY AREAS MNDOT SEED MIX 35-221 (DRY PRAIRIE GENERAL) AT 40 LBS PER ACRE.

## OWNER INFORMATION

MONARCH DEVELOPMENT PARTNERS, LLC 441 SECOND STREET EXCELSIOR, MN 55331 612-209-6688 CARL@MONARCHDEVELOPMENTSPARTNERS.COM

SWPPP INSPECTOR TRAINING: ALL SWPPP INSPECTIONS MUST BE PERFORMED BY A PERSON THAT MEETS THE TRAINING REQUIREMENTS OF THE NPDES CONSTRUCTION SITE PERMIT. TRAINING CREDENTIALS SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON SITE WITH THE SWPPP

A. STABILIZATION OF ALL EXPOSED SOIL AREAS MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION BUT IN NO CASE COMPLETED LATER THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. B. TEMPORARY SEDIMENT BASIN REQUIREMENTS DESCRIBED IN SECTION 14. MUST BE USED FOR COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH FIVE (5) OR MORE ACRES DISTURBED AT ONE

FOR THIS PROJECT ALL AREAS THAT ARE NOT TO BE SODDED OR LANDSCAPED SHALL RECEIVE A NATIVE

AREAS IN BUFFERS AND ADJACENT TO OR IN WET AREAS MNDOT SEED MIX 33-261 (STORMWATER

MAINTENANCE SHALL BE IN ACCORDANCE TO THE MNDOT SEEDING MANUAL.

5000	Architecture O Glenwood Av len Valley, MN civilsitegroup.cd 612-615-00 ARCHIER	venue 55422 om
LAKE MINNETONKA FLATS	2400-2420 COMMERCE BLVD, MOUND, MN 55364	OWNER MONARCH DEVELOPMENT PARTNERS, LLC 441 SECOND STREET, EXCELSIOR, MN 55331
SPECIF PREPARED SUPERVI LICENSE UNDER T	Y CERTIFY THA FICATION, OR RE D BY ME OR UNE SION AND THAT D PROFESSION THE LAWS OF TH MINNESOTA Matthew R. Pa 5/24 LICENSI SUBMITTAL S	EPORT WAS DER MY DIRECT I AM A DULY AL ENGINEER HE STATE OF A.
DATE 07/31/24 08/01/24 08/27/24 09/06/24 09/18/24	-	RIPTION IITTAL - RESUBMITTAL
09/25/24	WATERSHED RESU	
PROJECT MANAGER CONTACT NUMBER DRAWN BY REVIEWED BY PROJECT NUMBER	MATT PAVEK 612-615-0060 X 701 MD, MP, RB MP, RB 23360	
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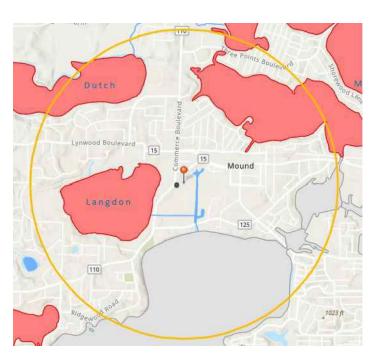
#### ATTACHMENT A: SITE SPECIFIC SWPPP DOCUMENT

	PROJEC	T LOCATION			
ADDRESS	2400-2420 COMMERCE BLVD	CITY/TOWNSHIP	MOUND		
STATE	MN	COUNTY	HENNEPIN		
ZIP CODE	55364	PROJECT SIZE	0.9 ACRES		
LATTITUDE/L CENTROID O	ONGITUDE OF APPROX. F PROJECT	44.934639 N, -93.	665579 E		
METHOD OF	LAT/LONG COLLECTION	ONLINE TOOL			
PROJECT TY	PE	RESIDENTIAL			
	IMPERVIOUS SI	JRFACES (ACRES)			
EXISTING		0.0			
PROPOSED		0.6	0.6		
DIFFERENC	E	0.6	0.6		
	ESTIMATED CONS	TRUCTION TIMELIN	E		
START	TBD	END	TBD		
CONSTRUC	TION ACTIVITY	DRIVEWAY. CONS	SIDENTIAL BUILDINGS		
SOIL TYPES	3	SILTY CLAYEY SA SILTY SAND	ND, SANDY LEAN CLAY,		



	RECEIVING WATER BODIES					
	WATER BODY ID	NAME OF WATER BODY	WATER BODY TYPE	SPECIAL WATER (Y/N)	IMPAIRED WATER (Y/N)	
1	NA	MINNETONKA-UPPER	LAKE	Ν	Y	
2	NA	LANGDON	LAKE	Ν	Y	
3	NA	MINNETONKA-WEST ARM	LAKE	Ν	Y	
4	NA	DUTCH	LAKE	Ν	Y	
5	NA	MINNETONKA-JENNINGS BAY	LAKE	Ν	Y	

#### SITE LOCATION MAP -



GENERAL SITE INFORMATION (5.1) 1. DESCRIBE THE LOCATION AND TYPE OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S). INCLUDE THE TIL TEMPORARY BMP'S AS NECESSARY. (5.5) THE PROJECT IS PROTECTED BY TWO (W) MAIN BMP'S. SILT FENCE AND INLET PROTECTION DEVICES. THE SILT FENCE WILL BE INSTALLED AT THE DOWNHILL LOCATIONS OF THE SITE AN

IN ALL CATCH BASINS ON THE SITE AND ANY OFF SITE THAT WILL RECEIVE STORMWATER RUNOFF FROM THIS SITE. AS THE PROJECT PROGRESSES ADDITIONAL BMP'S SUCH AS EROSIC 2. ATTACH TO THIS SWPPP A TABLE WITH THE ANTICIPATED QUANTITIES FOR THE LIFE OF THE PROJECT FOR ALL EROSION PREVENTION AND SEDIMENT CONTROL BMP'S (5.7). SEE PAGE 3. ATTACH TO THIS SWPPP A SITE MAP THAT INCLUDES THE FOLLOWING FEATURES (5.9): EXIST AND FINAL GRADES, INCLUDING DIVIDING LINES AND DIRECTION OF FLOW FOR ALL PRE AND POST-CONSTRUCTION STORMWATER RUNOFF DRAINAGE AREAS LOCATED WITHIN THE

LOCATIONS OF IMPERVIOUS SURFACES AND SOIL TYPES.

EXISTING AND FINAL GRADES, INCLUDING DIVIDING LINES AND DIRECTION OF FLOW FOR ALL PRE AND POST-CONSTRUCTION STORMWATER RUNOFF DRAINAGE AREAS LOCATED W

LOCATIONS OF AREAS NOT TO BE DISTURBED.
LOCATION OF AREAS OF PHASED CONSTRUCTION.

 ALL SURFACE WATERS AND EXISTING WETLANDS WITHIN ONE MILE FROM THE PROJECT BOUNDARIES THAT WILL RECEIVE STORMWATER RUNOFF FROM THE SITE (IDENTIFIABLE OI SURFACE WATERS RECEIVING RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY WILL NOT FIT ON THE PLAN SHEET, THEY MUST BE IDENTIFIED WITH AN ARROW, INDICATING BO METHODS TO BE USED FOR FINAL STABILIZATION OF ALL EXPOSED SOIL AREA

4. WERE STORMWATER MITIGATION MEASURES REQUIRED AS THE RESULT OF AN ENVIRONMENTAL, ARCHAEOLOGICAL, OR OTHER REQUIRED LOCAL, STATE OR FEDERAL REVIEW OF T IF YES, DESCRIBE HOW THESE MEASURES WERE ADDRESSED IN THE SWPPP. (5.16)

5. IS THE PROJECT LOCATED IN A KARST AREA SUCH THAT ADDITIONAL MEASURES WOULD BE NECESSARY TO PROJECT DRINKING WATER SUPPLY MANAGEMENT AREAS AS DESCRIBE IF YES, DESCRIBE THE ADDITIONAL MEASURES TO BE USED. (SECTION 23) N/A

6. DOES THE SITE DISCHARGE TO A CALCEREOUS FEN LISTED IN MINN. R. 7050.0180, SUBP. 6.B?

IF YES, A LETTER OF APPROVAL FROM THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES MUST BE OBTAINED PRIOR TO APPLICATION FOR THIS PERMIT. 7. DOES THE SITE DISCHARGE TO A WATER THAT IS LISTED AS IMPAIRED FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS, TURBIDITY, DISSOLVED OXYGEN OR BIO WWW.PCA.STATE.MN.US/WATER/STORMWATER/STORMWATER-C.HTML.

IF NO, SKIP TO TRAINING

DOES THE IMPAIRED WATER HAVE AN APPROVED TOTAL MAXIMUM DAILY LOADS (TMDL) WITH AN APPROVED WASTE LOAD ALLOCATION FOR CONSTRUCTION ACTIVITY?

YES IF YES:

A. LIST THE RECEIVING WATER, THE AREAS OF THE SITE DISCHARGING TO IT, AND THE POLLUTANT(S) IDENTIFIED IN THE TMDL. B. LIST THE BMP'S AND ANY OTHER SPECIFIC CONSTRUCTION STORMWATER RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN THE TMDL.

IF THE SITE HAS A DISCHARGE POINT WITHIN ONE MILE OF THE IMPAIRED WATER AND THE WATER FLOWS TO THE IMPAIRED WATER BUT NO SPECIFIC BMPS FOR CONSTRUCTION ARE ID THE SWPPP AND IMPLEMENTED (15.19). THE ADDITIONAL BMPS ONLY APPLY TO THOSE PORTIONS OF THE PROJECT THAT DRAIN TO ONE OF THE IDENTIFIED DISCHARGE POINTS. N/A 8. IDENTIFY ADJACENT PUBLIC WATERS WHERE THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES (DNR) HAS DECLARED "WORK IN WATER RESTRICTIONS" DURING FISH SPAWNI SELECTION OF A PERMANENT STORMWATER MANAGEMENT SYSTEM (SECTION 15)

1. WILL THE PROJECT CREATE A NEW CUMULATIVE IMPERVIOUS SURFACE GREATER THAN OR EQUAL TO ONE ACRE? NO

IF YES, A WATER QUALITY VOLUME OF ONE INCH OF RUNOFF FROM THE CUMULATIVE NEW IMPERVIOUS SURFACES MUST BE RETAINED ON SITE (SEE 16.7 OF THE PERMIT) THROUGH INF THROUGH 16.21. IF INFILTRATION IS PROHIBITED IDENTIFY OTHER METHOD OF MEETING WATER QUALITY REQUIREMENTS (E.G., FILTRATION SYSTEM, WET SEDIMENTATION BASIN, REGIO 2. DESCRIBE WHICH METHOD WILL BE USED TO TREAT RUNOFF FROM THE NEW IMPERVIOUS SURFACES CREATED BY THE PROJECT:

INCLUDE ALL CALCULATIONS AND DESIGN INFORMATION FOR THE METHOD SELECTED. SEE SECTION 23 OF THE PERMIT FOR SPECIFIC REQUIREMENTS ASSOCIATED WITH EACH METHOD FILTRATION / REGIONAL PONDING

CALCULATIONS ARE WITHIN THE SITE STORM WATER MANAGEMENT REPORT AND PART OF THIS SWPPP AS ATTACHMENT D.

3. IF IT IS NOT FEASIBLE TO MEET THE TREATMENT REQUIREMENT FOR THE WATER QUALITY VOLUME, DESCRIBE WHY. THIS CAN INCLUDE PROXIMITY TO BEDROCK OR ROAD PROJECTS PERMANENT STORMWATER MANAGEMENT PRACTICES. DESCRIBE WHAT OTHER TREATMENT, SUCH AS GRASS SWALES, SMALLER PONDS, OR GRIT CHAMBERS, WILL BE IMPLEMENTED TO IT IS FEASIBLE TO MEET REQUIREMENT FOR WATER QUALITY VOLUME.

4. FOR PROJECTS THAT DISCHARGE TO TROUT STREAMS, INCLUDING TRIBUTARIES TO TROUT STREAMS, IDENTIFY METHOD OF INCORPORATING TEMPERATURE CONTROLS INTO THE PE N/A

			DESCRIBE THE TYPES OF TEMPORARY EROSION PREVENTION BMP'S EXPECTED TO BE IMPLEMENTED ON THIS S 1. DESCRIBE CONSTRUCTION PHASING, VEGETATIVE BUFFER STRIPS, HORIZONTAL SLOPE GRADING, AND OTHE
	MAP UNIT SYMBOL	MAP UNIT NAME	DISTURBED (E.G., WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.) BEFORE WORK BEGINS. SILT FENCE WILL BE INSTALLED AT THE DOWNHILL LOCATIONS OF THE SITE.
		MUSKEGO, BLUE EARTH,	2. DESCRIBE METHODS OF TEMPORARILY STABILIZING SOILS AND SOIL STOCKPILES (E.G., MULCHES, HYDRAULI TEMPORARY EROSION PROTECTION WILL BE SEED AND MULCH AND EROSION BLANKETS WHERE REQUIRED, W
	L16A	AND HOUGHTON SOILS, PONDED	3. DESCRIBE METHODS OF DISSIPATING VELOCITY ALONG STORMWATER CONVEYANCE CHANNELS AND AT CHA SOD WILL BE UTILIZED ALONG CHANNELS AND RIP RAP AT CHANNEL.
	U6B	URBAN LAND-UDORTHENTS COMPLEX	4. DESCRIBE METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS (NOTE THAN STABILIZATION METHODS FOR ANY PART OF A DRAINAGE DITCH OR SWALE)
			FINAL STABILIZATION OF SWALES WILL BE SOD 5. DESCRIBE METHODS TO BE USED FOR ENERGY DISSIPATION AT PIPE OUTLETS (E.G., RIP RAP, SPLASH PADS, RIP RAP WILL BE UTILIZED AT PIPE OUTLETS
			6. DESCRIBE METHODS TO BE USED TO PROMOTE INFILTRATION AND SEDIMENT REMOVAL ON THE SITE PRIOR VEGETATED AREAS):
			DISCONNECTED IMPERVIOUS AREA AND INFILTRATION AREAS WILL BE UTILIZED 7. FOR DRAINAGE OR DIVERSION DITCHES, DESCRIBE PRACTICES TO STABILIZE THE NORMAL WETTED PERIMET
•			WATER. THE LAST 200 LINEAL FEET MUST BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO SURFACE W PERMANENTLY CEASED FOR ALL DISCHARGES TO SPECIAL, IMPAIRED OR "WORK IN WATER RESTRICTIONS". ALL
			WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER, PROPERTY EDGE AND CONSTRUCTION N/A, NO DITCHES ON SITE
			8. DESCRIBE ADDITIONAL EROSION PREVENTION MEASURES THAT WILL BE IMPLEMENTED AT THE SITE DURING VEGETATIVE BUFFERS, HORIZONTAL SLOPE GRADING, SLOPE DRAINING/TERRACING, ETC.):
			OTHER EROSION CONTROL PRACTICES INCLUDE BUT ARE NOT LIMITED TO; MINIMIZING SITE EXPOSURE WHEN F 9. IF APPLICABLE, INCLUDE ADDITIONAL REQUIREMENTS IN APPENDIX A PART C.3 REGARDING MAINTAINING A 10 DRAIN TO SPECIAL WATERS)
			DRAIN TO SPECIAL WATERS). N/A 10. IF APPLICABLE, DESCRIBE ADDITIONAL EROSION PREVENTION BMPS TO BE IMPLEMENTED AT THE SITE TO PI
			MINIMIZE SITE EXPOSURE IN AREAS ADJACENT TO FILTRATION AREAS. SEDIMENT CONTROL PRACTICES (SECTION 9.1)
			DESCRIBE THE METHODS OF SEDIMENT CONTROL BMPS TO BE IMPLEMENTED AT THIS SITE DURING CONSTRUCT SYSTEMS
			1. DESCRIBE METHODS TO BE USED FOR DOWN GRADIENT PERIMETER CONTROL: SILT FENCE WILL BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE SITE
			2. DESCRIBE METHODS TO BE USED TO CONTAIN SOIL STOCKPILES: SEED AND MULCH AS WELL AS EROSION CONTROL BLANKETS WILL BE UTILIZED AS NECESSARY
			3. DESCRIBE METHODS TO BE USED FOR STORM DRAIN INLET PROTECTION: SEE INLET PROTECTION DETAILS
			4. DESCRIBE METHODS TO MINIMIZE VEHICLE TRACKING AT CONSTRUCTION EXITS AND STREET SWEEPING ACTI THE PROJECT WILL UTILIZE A ROCK CONSTRUCTION ENTRANCE.
			5. DESCRIBE METHODS, IF APPLICABLE, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO BE INST PRIOR TO FINAL STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA: SILT FENCE TO BE INSTALLED IMMEDIATELY AFTER GRADING TO PROTECT INFILTRATION AREAS.
			6. DESCRIBE METHODS TO BE USED TO MINIMIZE SOIL COMPACTION AND PRESERVE TOP SOIL (UNLESS INFEASI LIGHT TRACKED EQUIPMENT WILL BE USED, TOPSOIL WILL BE STRIPPED AND STOCKPILED
			7. DESCRIBE PLANS TO PRESERVE A 50-FOOT NATURAL BUFFER BETWEEN THE PROJECT'S SOIL DISTURBANCE A INFEASIBLE:
			DOUBLE ROW OF SILT FENCE WILL BE INSTALLED ALONG WETLAND. PROJECT WILL NOT DISTURB WITHIN 200 FEE 8. DESCRIBE PLANS FOR USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC
			N/A 9. IS THE PROJECT REQUIRED TO INSTALL A TEMPORARY SEDIMENT BASIN DUE TO 10 OR MORE ACRES DRAINING OR IMPAIRED WATER?
			YES IF YES, DESCRIBE (OR ATTACH PLANS ) SHOWING HOW THE BASIN WILL BE DESIGNED AND CONSTRUCTED IN AC
			PROPOSED FILTRATION BASINS WILL SERVE AS TEMPORARY SEDIMENTS BASINS THAT WILL THEN BE CONVERTED
			DEWATERING AND BASIN DRAINING (SECTION 10.1) 1. WILL THE PROJECT INCLUDE DEWATERING OR BASIN DRAINING?
			NO IF YES, DESCRIBE MEASURES TO BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER AND MET
			THE PERMIT): N/A 2. WILL THE PROJECT INCLUDE USE OF FILTERS FOR BACKWASH WATER?
			NO IF YES, DESCRIBE HOW FILTER BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED (10.
			N/A
			ADDITIONAL BMP'S FOR SPECIAL WATERS AND DISCHARGES TO WETLANDS (SECTION 23.1) 1. SPECIAL WATERS. DOES YOUR PROJECT DISCHARGE TO SPECIAL WATERS?
			YES 2. IF PROXIMITY TO BEDROCK OR ROAD PROJECTS WHERE THE LACK OF RIGHT OF WAY PRECLUDES THE INSTALI TREATMENT SUCH AS GRASSED SWALES, SMALLER PONDS, OR GRIT CHAMBERS IS REQUIRED PRIOR TO DISCHAI
			N/A 3. DESCRIBE EROSION AND SEDIMENT CONTROLS FOR EXPOSED SOIL AREAS WITH A CONTINUOUS POSITIVE SLO
IMING FOR	INSTALLATION AND PRO	CEDURES USED TO ESTABLISH ADDITIONAL	OR MORE ACRES DISTURBED AT ONE TIME. N/A 4. DESCRIBE THE UNDISTURBED BUFFER ZONE TO BE USED (NOT LESS THAN 100 LINEAR FEET FROM THE SPECIA
		LET PROTECTION DEVICES WILL BE INSTALLED	N/A 5. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL ENSURE THAT THE PRE AND POS
GN CONTR GE SW1.3	OL BLANKET MAY BE UTIL	IZED.	EVENTS REMAINS THE SAME. N/A
HE PROJEC	CT LIMITS.		6. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL MINIMIZE ANY INCREASE IN THE 1 24-HOUR PRECIPITATION EVENTS.
VITHIN PRO	JECT LIMITS.		N/A 7. WETLANDS. DOES YOUR PROJECT DISCHARGE STORMWATER WITH THE POTENTIAL FOR SIGNIFICANT ADVERS POND)?
	JCH AS USGS 7.5 MINUTE CTION AND DISTANCE TO	QUADRANGLE MAPS OR EQUIVALENT. WHERE	YES OR NO IF YES, DESCRIBE THE WETLAND MITIGATION SEQUENCE THAT WILL BE FOLLOWED IN ACCORDANCE WITH SECTION
-		THE SORTAGE WATER.	N/A INSPECTIONS AND MAINTENANCE (SECTION 11.1)
THE PROJE	CT? NO		DESCRIBE PROCEDURES TO ROUTINELY INSPECT THE CONSTRUCTION SITE: • ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND
D IN MINN.	R. CHAPTERS 7050 AND 7	7060? NO	WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS, AND WITHIN (7) DAYS A
			INSPECTIONS MUST INCLUDE STABILIZED AREAS, EROSION PREVENTION, AND SEDIMENT CONTROL BMP'S AND IN INSPECTOR WILL FOLLOW REQUIREMENTS SPECIFIED ABOVE AND FILL OUT "ATTACHMENT B - CONSTRUCTION ST 1. DESCRIBE PRACTICES FOR STORAGE OF BUILDING PRODUCTS WITH A POTENTIAL TO LEACH POLLUTANTS TO I
TIC IMPAIF	MENT? USE THE SPECIA	AND IMPAIRED WATERS SEARCH TOOL AT:	ALL BUILDING PRODUCTS WILL BE SEALED AND STORED IN A MANNER TO MINIMIZE EXPOSURE 2. DESCRIBE PRACTICES FOR STORAGE OF PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT OF
			ALL LANDSCAPE TREATMENT CHEMICALS WILL BE SEALED AND STORED IN A MANNER TO MINIMIZED EXPOSURE 3. DESCRIBE PRACTICES FOR STORAGE AND DISPOSAL OF HAZARDOUS MATERIALS OR TOXIC WASTE (E.G., OIL, F
			PRESERVATIVE, ADDITIVES, CURING COMPOUNDS, AND ACIDS) ACCORDING TO MINN. R. CH. 7045, INCLUDING RES ALL HAZARDOUS WASTE WILL BE APPROPRIATELY DISPOSED OF OFF SITE ACCORDING TO LOCAL AND STATE LA
			4. DESCRIBE COLLECTION, STORAGE AND DISPOSAL OF SOLID WASTE IN COMPLIANCE WITH MINN. R. CH. 7035: ALL CONSTRUCTION DEBRIS AND SOLID WASTER WILL BE APPROPRIATELY DISPOSED OF OFF SITE ACCORDING T 5. DESCRIBE MANAGEMENT OF PORTABLE TOILETS TO PREVENT TIPPING AND DISPOSAL OF SANITARY WASTES II
DENTIFIED	IN THE TMDL, THE ADDIT	IONAL BMPS IN SECTION 23 MUST BE ADDED TO	SANITARY AND SEPTIC SERVICES WILL BE PROVIDED TO WORKERS WITH PORTABLE FACILITIES MAINTAINED AS N 6. DESCRIBE SPILL PREVENTION AND RESPONSE FOR FUELING AND EQUIPMENT OR VEHICLE MAINTENANCE:
IING TIMEF	RAMES. N/A		EMPLOYEES WILL BE TRAINED IN TECHNIQUES DESIGNED TO MINIMIZE SPILLS. VEHICLES AND EQUIPMENT SHALL 7. DESCRIBE CONTAINMENT AND DISPOSAL OF VEHICLE AND EQUIPMENT WASH WATER AND PROHIBITING ENGIN
			ALL CONSTRUCTION VEHICLES SHALL BE WASHED OFF SITE 8. DESCRIBE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES SO THAT WASTES DO NOT
FILTRATION	N UNLESS PROHIBITED DI	JE TO ONE OF THE REASONS IN ITEMS 16.4	ALL CONCRETE WASHOUT SHALL OCCUR OFF SITE.  FINAL STABILIZATION (25.22)
	DING OR EQUIVALENT ME		1. DESCRIBE METHOD OF FINAL STABILIZATION (PERMANENT COVER) OF ALL DISTURBED AREAS: FINAL STABILIZATION WILL BE ACCOMPLISHED WITH PAVEMENT, SOD AND LANDSCAPE MATERIALS.
D.			2. DESCRIBE METHODS USED TO CLEAN ALL STORMWATER TREATMENT SYSTEMS AND STORMWATER CONVEYAN CLEANING OF STORMWATER TREATMENT SYSTEMS SHALL BE DONE BY HAND SUCH AS THE USE OF A SHOVEL.
			3. DESCRIBE METHODS FOR REMOVING ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CON REMOVAL OF TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMP'S CAN BE DONE BY H
		AY PRECLUDES THE INSTALLATION OF ANY ARGE TO SURFACE WATERS. (15.8)	
	STORMWATER MANAGE		
	JIORIVIVVATER MANAGE		

**EROSION PREVENTION PRACTICES (SECTION 8.1)** 

#### SITE DURING CONSTRUCTION: ER CONSTRUCTION PRACTICES TO MINIMIZE EROSION. DELINEATE AREAS NOT TO BE

IC TACKIFIERS, EROSION BLANKETS, ETC.): /ITH PERMANENT COVER BEING EITHER SOD OR LANDSCAPE FEATURES. ANNEL OUTLETS (E.G., CHECK DAMS, SEDIMENT TRAPS, RIP RAP, ETC.):

AT MULCH, HYDRAULIC SOIL TACKIFIERS, HYDROMULCHES, ETC. ARE NOT ACCEPTABLE SOIL

, GABIONS, ETC.)

TO OFFSITE DISCHARGE, UNLESS INFEASIBLE (E.G., DIRECT STORMWATER FLOW TO

TER WITHIN 200 LINEAL FEET OF THE PROPERTY EDGE OR POINT OF DISCHARGE TO SURFACE WATERS AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR L OTHER REMAINING PORTIONS OF THE TEMPORARY OR PERMANENT DITCHES OR SWALES N IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

CONSTRUCTION (E.G., CONSTRUCTION PHASING, MINIMIZING SOIL DISTURBANCE,

POSSIBLE. 00-FOOT BUFFER ZONE OR INSTALLING REDUNDANT BMPS FOR PORTIONS OF THE SITE THAT

PROTECT PLANNED FILTRATION AREAS

TION TO MINIMIZE SEDIMENT IMPACTS TO SURFACE WATERS, INCLUDING CURB AND GUTTER

IVITIES:

TALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS WHEN EXCAVATED

IBLE) AT THIS SITE:

AND A SURFACE WATER OR PLANS FOR REDUNDANT SEDIMENT CONTROLS IF A BUFFER IS

C.) SEE PART 9.18 OF THE PERMIT:

IG TO A COMMON LOCATION OR 5 ACRES OR MORE IF THE SITE IS WITHIN 1 MILE OF A SPECIAL

CORDANCE WITH SECTION 14. ED TO PERMANENT FILTRATIONS BASINS.

THOD TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS (SEE 10.2 THROUGH 10.4 OF

5):

LATION OF ANY OF THE PERMANENT STORMWATER MANAGEMENT PRACTICES, THEN OTHER ARGE TO SURFACE WATERS. DESCRIBE WHAT OTHER TREATMENT WILL BE PROVIDED. OPE TO A SPECIAL WATERS, AND TEMPORARY SEDIMENT BASINS FOR AREAS THAT DRAIN FIVE

AL WATER).

ST PROJECT RUNOFF RATE AND VOLUME FROM THE 1, AND 2-YEAR 24-HOUR PRECIPITATION

TEMPERATURE OF TROUT STREAM RECEIVING WATERS RESULTING IN THE 1, AND 2-YEAR

SE IMPACTS TO A WETLAND (E.G., CONVERSION OF A NATURAL WETLAND TO A STORMWATER

ON 22 OF THE PERMIT.

AFTER THAT IFILTRATION AREAS. TORMWATER INSPECTION CHECKLIST" MINIMIZE EXPOSURE TO STORMWATER:

CHEMICAL, AND LANDSCAPE MATERIALS:

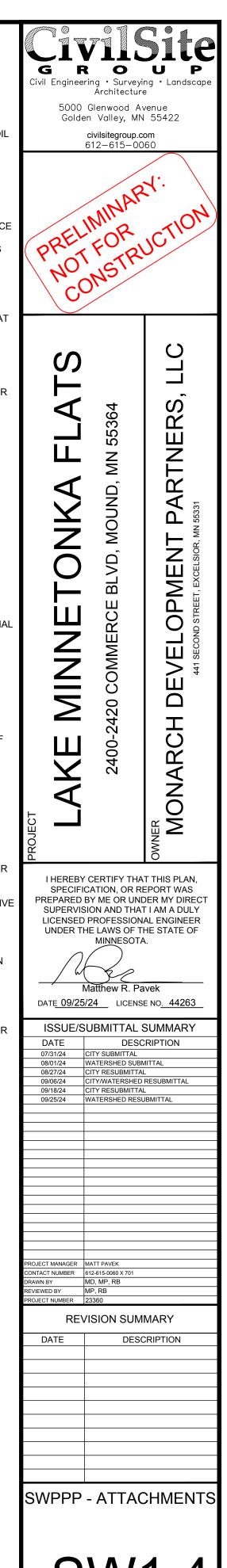
FUEL, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD STRICTED ACCESS AND SECONDARY CONTAINMENT: WS.

TO LOCAL AND STATE LAWS IN ACCORDANCE WITH MINN. R. CH. 7040: NEEDED BY THE PROVIDER.

L BE CHECKED FOR LEAKS. IE DEGREASING ON THE SITE:

CONTACT THE GROUND:

NCE SYSTEMS OF ACCUMULATED SEDIMENT (25.22): NTROL BMP'S: HAND AND PROPERLY DISPOSED OF.



#### ATTACHMENT B: SWPPP INSPECTION FORM

NOTE: THIS INSPECTION REPORT DOES NOT ADDRESS ALL ASPECTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) CONSTRUCTION STORMWATER PERMIT (PERMIT) ISSUED ON AUGUST 1, 2018. THE COMPLETION OF THIS CHECKLIST DOES NOT GUARANTEE THAT ALL PERMIT REQUIREMENTS ARE IN COMPLIANCE; IT IS THE RESPONSIBILITY OF THE PERMITTEE(S) TO READ AND UNDERSTAND THE PERMIT REQUIREMENTS. FACILITY INFORMATION SITE NAME: SITE ADDRESS: PERMIT NUMBER: CITY: STATE: ZIP CODE: INSPECTION INFORMATION

INS	PECTOR NAME:	PHONE NUMB	ER:					
OR	GANIZATION/COMPANY MAN:							
DA.	ГЕ (MM/DD/YYYY):	TIME:	AM / PM				Y	N
IS 1	HE INSPECTOR CERTIFIED IN SED	IMENT AND EROSION C	ONTROL AND IS IT DOCU	MENTED IN THE STORMWATER POLLUTION F	PREVENTIO	N PLAN (SWPF	PP)?	
IS 1	HIS INSPECTION ROUTINE OR IN R	RESPONSE TO A STORM	I EVENT:					
	7 DAY	RAIN						
		_			V	NI		
	NFALL AMOUNT (IF APPLICABLE): _				Y	N		
				TIALLY RECEIVE DISCHARGE FROM THE SITI	E? 🗌			
IF \	'ES, FOLLOW SECTION 23 AND OTH	HER APPLICABLE PERMI	IT REQUIREMENTS					
NO	<b>TE:</b> IF N/A IS SELECTED AT ANY TIN	ME, SPECIFY WHY IN TH	E COMMENT AREA FOR T	THAT SECTION.				
ER	SION CONTROL REQUIREMENT (S	SECTION 8.1)						
	(				Y	Ν	N/A	_
1.	ARE SOILS STABILIZED WHERE NO	O CONSTRUCTION ACTI	IVITY HAS OCCURRED FC	OR 14 DAYS (INCLUDING STOCKPILES)?				
				OF NATURAL RESOURCES [DNR] FISH				
	SPAWNING RESTRICTIONS)							
2.	HAS THE NEED TO DISTURB STEE	P SLOPES BEEN MINIMI	IZED?					
3.	IF STEEP SLOPES ARE DISTURBE	D, ARE STABILIZATION F	PRACTICES DESIGNED FO	OR STEEP SLOPES USED?				_
4.	ALL DITCHES/SWALES STABILIZED	D 200' BACK FROM POIN	IT OF DISCHARGE OR PR	OPERTY EDGE WITHIN 24 HOURS? (MULCH,				_
	HYDROMULCH, TACKIFIER, OR SIM	VILAR BEST MANAGEME	ENT PRACTICES [BMPS] A	RE NOT ACCEPTABLE IN DITCHES/SWALES				
	IF THE SLOPE IS GREATER THAN 2	2%)ARE APPROPRIATE I	BMP'S INSTALLED PROTE	ECTING INLETS/OUTLETS?				
5.	DO PIPE OUTLETS HAVE ENERGY	DISSIPATION (WITHIN 2	4 HOURS OF CONNECTIO	DN)?		$\square$		
	IS CONSTRUCTION PHASING BEIN			·		$\square$		
7.	ARE AREAS NOT TO BE DISTURBE	ED MARKED OFF (FLAGS	3, SIGNS, ETC.)?			$\square$	$\square$	_
		· ·						

COMMENTS:

#### SEDIMENT CONTROL REQUIREMENTS (SECTION 9.1)

	Y	Ν	N/A
1. ARE PERIMETER SEDIMENT CONTROLS INSTALLED PROPERLY ON ALL DOWN GRADIENT PERIMETERS?			
2. ARE APPROPRIATE BMPS INSTALLED PROTECTING INLETS, CATCH BASINS, AND CULVERT INLETS?			
3. IS A 50 FOOT NATURAL BUFFER PRESERVED AROUND ALL SURFACE WATERS DURING CONSTRUCTION?			
3.1. IF NO, HAVE REDUNDANT SEDIMENT CONTROLS BEEN INSTALLED?			
4. DO ALL ERODIBLE STOCKPILES HAVE PERIMETER CONTROL IN PLACE?			
5. IS THERE A TEMPORARY SEDIMENT BASIN ON SITE, AND IS IT BUILT AS REQUIRED IN SECTION 14 OF THE PERMIT?			
6. IS SOIL COMPACTION BEING MINIMIZED WHERE NOT DESIGNED FOR COMPACTION?			
7. IS TOPSOIL BEING PRESERVED UNLESS INFEASIBLE?			
8. IF CHEMICAL FLOCCULANTS ARE USED, IS THERE A CHEMICAL FLOCCULANT PLAN IN PLACE?			

COMMENTS:

#### **MAINTENANCE AND INSPECTIONS (SECTION 11)**

1. ARE ALL PREVIOUSLY STABILIZED AREAS MAINTAINING GROUND COVER? <ul> <li>ARE PERIMETER CONTROLS MAINTAINED AND FUNCTIONING PROPERLY, SEDIMENT REMOVED WHEN ONE-HALF FULL?</li> <li>ARE INLET PROTECTION DEVICES MAINTAINED AND ADEQUATELY PROTECTING INLETS?</li> <li>Image: Control of the second seco</li></ul>	<u>i</u>
3. ARE INI ET PROTECTION DEVICES MAINTAINED AND ADEQUATELY PROTECTING INI ETS?	
4. ARE THE TEMPORARY SEDIMENT BASINS BEING MAINTAINED AND FUNCTIONING PROPERLY?	
5. ARE VEHICLE TRACKING BMPS AT SITE EXISTS IN PLACE AND MAINTAINED AND FUNCTIONING PROPERLY?	
6. IS ALL TRACKED SEDIMENT BEING REMOVED WITHIN 24 HOURS?	
7. HAVE ALL SURFACE WATERS, DITCHES, CONVEYANCES, AND DISCHARGE POINTS BEEN INSPECTED?	
8. WERE ANY DISCHARGES SEEN DURING THIS INSPECTION (I.E., SEDIMENT, TURBID WATER, OR OTHERWISE)?	

IF YES, RECORD THE LOCATION OF ALL POINTS OF DISCHARGE. PHOTOGRAPH AND DESCRIBE THE DISCHARGE (SIZE, COLOR, ODOR, FOAM, OIL SHEEN, TIME, ETC.). DESCRIBE HOW THE DISCHARGE WILL BE ADDRESSED. WAS THE DISCHARGE A SEDIMENT DELTA? IF YES, WILL THE DELTA BE RECOVERED WITHIN SEVEN DAYS AND IN ACCORDANCE WITH ITEM 11.5 OF THE PERMIT?

#### COMMENTS:

#### POLLUTION PREVENTION (SECTION 12)

		Y	N	N/A
1.	ARE ALL CONSTRUCTION MATERIALS THAT CAN LEACH POLLUTANTS UNDER COVER OR PROTECTED?			
2.	ARE HAZARDOUS MATERIALS BEING PROPERLY STORED?			
3.	ARE APPROPRIATE BMPS BEING USED TO PREVENT DISCHARGES ASSOCIATED WITH FUELING AND MAINTENANCE OF			
	EQUIPMENT OR VEHICLES?			
4.	ARE ALL SOLID WASTES BEING PROPERLY CONTAINED AND DISPOSED OF?			
5.	IS THERE A CONCRETE/OTHER MATERIAL WASHOUT AREA ON SITE AND IS IT BEING USED?			
6.	IS THE CONCRETE WASHOUT AREA MARKED WITH A SIGN?			
7.	ARE THE CONCRETE/OTHER MATERIAL WASHOUT AREAS PROPERLY MAINTAINED?			

COMMENTS:

от	HER			
		Y	Ν	N/A
1.	IS A COPY OF THE SWPPP, INSPECTION RECORDS, AND TRAINING DOCUMENTATION LOCATED ON THE CONSTRUCTION			
	SITE, OR CAN IT BE MADE AVAILABLE WITHIN 72 HOURS?			
2.	HAS THE SWPPP BEEN FOLLOWED AND IMPLEMENTED ON SITE, AND AMENDED AS NEEDED?			
3.	IS ANY DEWATERING OCCURRING ON SITE?			
	IF YES, WHAT BMPS ARE BEING USED TO ENSURE THAT CLEAN WATER IS LEAVING THE SITE AND THE DISCHARGE IS NOT CAUSING EROSION OR SCOUR?			
4.	WILL A PERMANENT STORMWATER MANAGEMENT SYSTEM BE CREATED FOR THIS PROJECT IF REQUIRED AND IN ACCORDANCE WITH SECTION 15 OF THE PERMIT (IF ADDING AN ACRE OR MORE OF NEW IMPERVIOUS SURFACE)? IF YES, DESCRIBE:			
5.	IF INFILTRATION/FILTRATION SYSTEMS ARE BEING CONSTRUCTED, ARE THEY MARKED AND PROTECTED FROM COMPACTION AND SEDIMENTATION?			
6.	DESCRIPTION OF AREAS OF NON-COMPLIANCE NOTED DURING THE INSPECTION, REQUIRED CORRECTIVE ACTIONS, AND R CORRECTIVE ACTIONS:	ECOMMENDI	ED DATE OF C	OMPLETION OF
7.	PROPOSED AMENDMENTS TO THE SWPPP:			
8.	POTENTIAL AREAS OF FUTURE CONCERN:			

9. ADDITIONAL COMMENTS

DISCLOSURES:

- AFTER DISCOVERY, THE PERMIT REQUIRES MANY OF THE DEFICIENCIES THAT MAY BE FOUND ON SITE BE CORRECTED WITHIN A SPECIFIED PERIOD OF TIME. SEE PERMIT FOR MORE DETAILS.
- THE PERMITTEE(S) IS/ARE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPS AS WELL AS EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL ANOTHER PERMITTEE HAS OBTAINED COVERAGE UNDER THIS PERMIT ACCORDING TO SECTION 3, OR THE PROJECT HAS MET THE TERMINATION CONDITIONS OF THE PERMIT AND A NOTICE OF TERMINATION HAS BEEN SUBMITTED TO THE MINNESOTA POLLUTION CONTROL AGENCY.

## ATTACHMENT C: MAINTENANCE PLAN FOR PERMANENT STORM WATER TREATMENT SYSTEM

ATTACHMENT C - CHAMBER FACILITY MANAGEMENT SCHEDULE

- 1. ALL GRIT CHAMBERS, SUMP CATCH BASINS, SUMP MANHOLES, OUTLET STRUCTURES, CULVERTS, OUTFALL STRUCTURES AND OTHER STORM WATER FACILITIES FOR WHICH MAINTENANCE REQUIREMENTS ARE NOT OTHERWISE SPECIFIED HEREIN MUST BE INSPECTED IN THE SPRING, SUMMER AND FALL OF EACH YEAR. WITHIN 30 DAYS OF THE INSPECTION DATE, ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED SUCH THAT EACH STORM WATER FACILITY OPERATES AS DESIGNED AND PERMITTED. CONTRIBUTING DRAINAGE AREAS MUST BE KEPT CLEAR OF LITTER AND VEGETATIVE DEBRIS, INFLOW PIPES AND OVERFLOW SPILLWAYS KEPT CLEAR, INLET AREAS KEPT CLEAN, AND UNDESIRABLE VEGETATION REMOVED. EROSION IMPAIRING THE FUNCTION OR INTEGRITY OF THE FACILITIES, IF ANY, WILL BE CORRECTED, AND ANY STRUCTURAL DAMAGE IMPAIRING OR THREATENING TO IMPAIR THE FUNCTION OF THE FACILITIES MUST BE REPAIRED.
- 2. VOLUME CONTROL FACILITIES AND CONTRIBUTING DRAINAGE AREAS MUST BE INSPECTED EVERY THREE MONTHS DURING THE OPERATIONAL PERIOD (BETWEEN SPRING SNOWMELT AND FIRST SUBSTANTIAL SNOWFALL) AND MONITORED AFTER RAINFALL EVENTS OF 1 INCH OR MORE TO ENSURE THAT THE CONTRIBUTING DRAINAGE AREA IS CLEAR OF LITTER AND DEBRIS, INFLOW PIPES AND OVERFLOW SPILLWAYS ARE CLEAR, INLET AREAS ARE CLEAN, UNDESIRABLE VEGETATION IS REMOVED AND THERE IS NO EROSION IMPAIRING OR THREATENING TO IMPAIR THE FUNCTION OF A FACILITY. IF SEDIMENT HAS ACCUMULATED IN A INFILTRATION FEATURE, WITHIN 30 DAYS OF INSPECTION DEPOSITED SEDIMENTS MUST BE REMOVED, THE INFILTRATION CAPACITY OF THE UNDERLYING SOILS MUST BE RESTORED, AND ANY SURFACE DISTURBANCE MUST BE STABILIZED. INSPECTION MUST ENSURE THAT SEDIMENT TRAPS AND FOREBAYS ARE TRAPPING SEDIMENT AND THAT MORE THAN 50 PERCENT OF THE STORAGE VOLUME REMAINS, THE CONTRIBUTING DRAINAGE AREA IS STABLE (I.E., NO EROSION IS OBSERVED), AND INLETS AND OUTLET/OVERFLOW SPILLWAYS ARE IN GOOD CONDITIONS WITH NO EROSION. MAINTENANCE TECHNIQUES USED MUST PROTECT THE INFILTRATION CAPACITY OF THE PRACTICE BY LIMITING SOIL COMPACTION TO THE GREATEST EXTENT POSSIBLE (E.G., BY USING LOW-IMPACT EARTH-MOVING EQUIPMENT).
- 3. UNDERGROUND STORAGE CHAMBERS MUST BE INSPECTED AT LEAST ONCE A YEAR TO ENSURE THAT ADEQUATE STORAGE CAPACITY REMAINS. CAPACITY WILL BE CONSIDERED INADEQUATE IF SEDIMENT HAS DECREASED THE STORAGE VOLUME BY 50 PERCENT OF ITS ORIGINAL DESIGN VOLUME. ACCUMULATED DEBRIS AND SEDIMENT WILL BE REMOVED, AND INLET AND OUTLET STRUCTURES WILL BE CLEARED OF ANY FLOW IMPEDIMENTS.

G Civil Enginee	ring • Surveyi	<b>Site</b> ng · Landscape			
	Architecture 5000 Glenwood Avenue Golden Valley, MN 55422 civilsitegroup.com 612-615-0060				
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PROJECT LAKE MINNETONKA FLATS	2400-2420 COMMERCE BLVD, MOUND, MN 55364	OWNER MONARCH DEVELOPMENT PARTNERS, LLC 41 SECOND STREET, EXCELSIOR, MN 55331			
SPECIFI PREPARED SUPERVIS LICENSED UNDER TI	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. Matthew R. Pavek DATE 09/25/24 LICENSE NO. 44263 ISSUE/SUBMITTAL SUMMARY				
DATE 07/31/24 08/01/24	DATE DESCRIPTION 07/31/24 CITY SUBMITTAL				
08/27/24 09/06/24 09/18/24	08/27/24 CITY RESUBMITTAL 09/06/24 CITY/WATERSHED RESUBMITTAL				
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