CITY ENTITLEMENT PLANS



Vicinity Map

FOR

WALSER KIA MINNETONKA

MINNETONKA, MN

PREPARED FOR:

WALSER REAL ESTATE, LLC

7700 FRANCE AVENUE SOUTH, SUITE 41N

EDINA, MN 55435

CONTACT: JOHN BRENNAN

PHONE: 952-653-3575

EMAIL: JBRENNAN@WALSER.COM

PREPARED BY:

Westwood Professional Services, Inc.

Westwood

(952) 937-5150 12701 Whitewater Drive, Suite #300 (952) 937-5822 Minnetonka, MN 55343 (888) 937-5150 westwoodps.com

PROJECT NUMBER: 0036502.00 CONTACT: DAVID T. BADE

	Sheet List Table
SHEET NUMBER	SHEET TITLE
C001	COVER
C002	PRELIMINARY PLAT
C100	EXISTING CONDITIONS WITH PROPOSED SITE OVERLAY
C101	REMOVALS PLAN
C200	SITE PLAN
C201	ENLARGED SITE PLAN
C300	OVERALL GRADING PLAN
C301	ENLARGED GRADING PLAN
C400	EROSION CONTROL PLAN
C500	UTILITIES PLAN
C600	STORM DETAILS
L100	TREE PRESERVATION PLAN
L200	LANDSCAPE PLAN
L201	LANDSCAPE NOTES

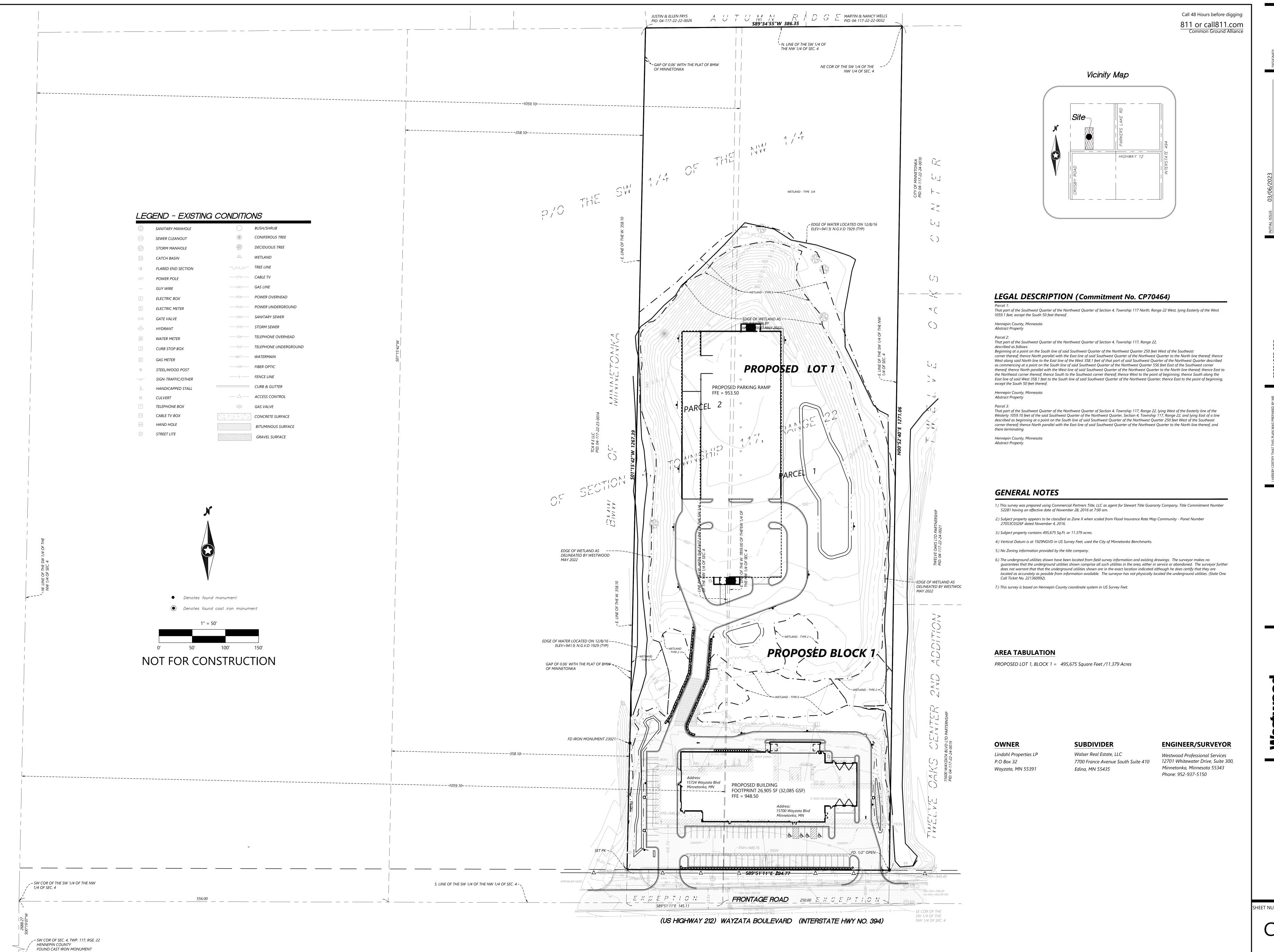
NO.	DATE	REVISION	SHEETS
	08/01/2023	CITY RESUBMITTAL	
	09/28/2023	MCWD SUBMITTAL	
	01/17/2024	CITY RESUBMITTAL	
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	•		

CITY ENTITLEMENT PLANS

WALSER KIA MINNETONKA

MINNETONKA, MN

INITIAL SUBMITTAL DATE: 03/06/2023 SHEET: C001



DATE: 01/17/2024

EXCEPTION

FRONTAGE ROAD

(ÛS HIGHWÂY 212) WAYZATA BOULEVARD (INTERSTATE HWY NO. 394)

Call 48 Hours before digging:

811 or call811.com

Common Ground Alliance

Sawn:

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Common Ground Alliance

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-SER KIA MINNETONKA MINNETONKA, MN

ne (952) 937-5150 12701 Whitewater Drive, Suite #300 (952) 937-5822 Minnetonka, MN 55343 Free (888) 937-5150 westwoodps.com

ISTING CONDITIONS ITH PROPOSED SITE OVERLAY

SHEET NUMBER:

1" = 50'

NOT FOR CONSTRUCTION

C100

DATE: 01/17/2024
PROJECT NUMBER: 0036502.00

REMOVAL NOTES

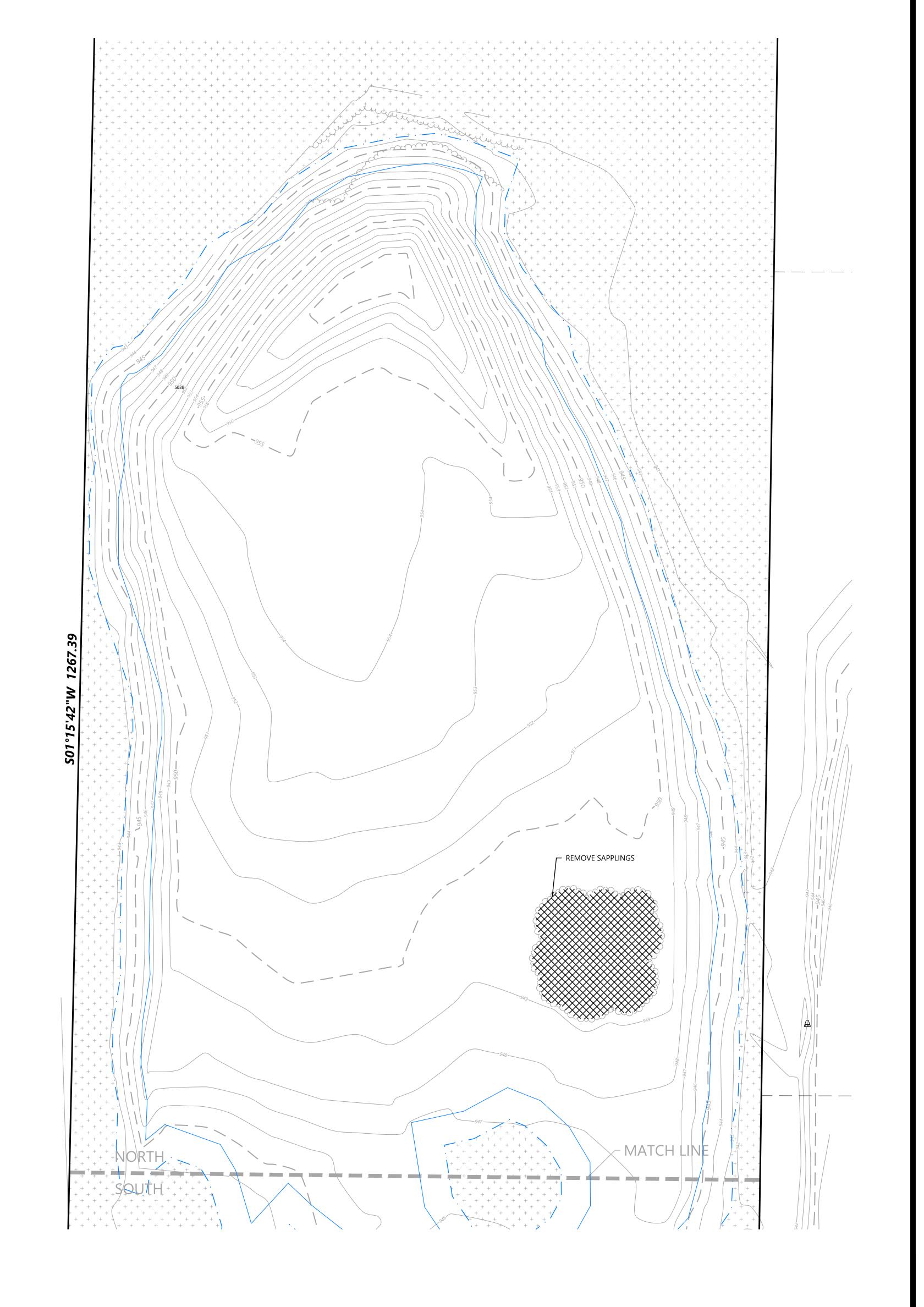
- 1. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- 2. CONTRACTOR SHALL COORDINATE LIMITS OF REMOVALS WITH PROPOSED IMPROVEMENTS AND FIELD VERIFY CONDITION OF EXISTING APPURTENANCES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING OR REPLACING MISCELLANEOUS ITEMS (SUCH AS FENCES, SIGNS, IRRIGATION HEADS, ETC.) THAT MAY BE DAMAGED BY CONSTRUCTION.
- 3. CONTRACTOR SHALL PLACE ALL NECESSARY EROSION CONTROL MEASURES REQUIRED TO MAINTAIN SITE STABILITY PRIOR TO EXECUTING ANY SITE REMOVALS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITY PROVIDERS FOR REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES AFFECTED BY SITE DEVELOPMENT. ALL PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

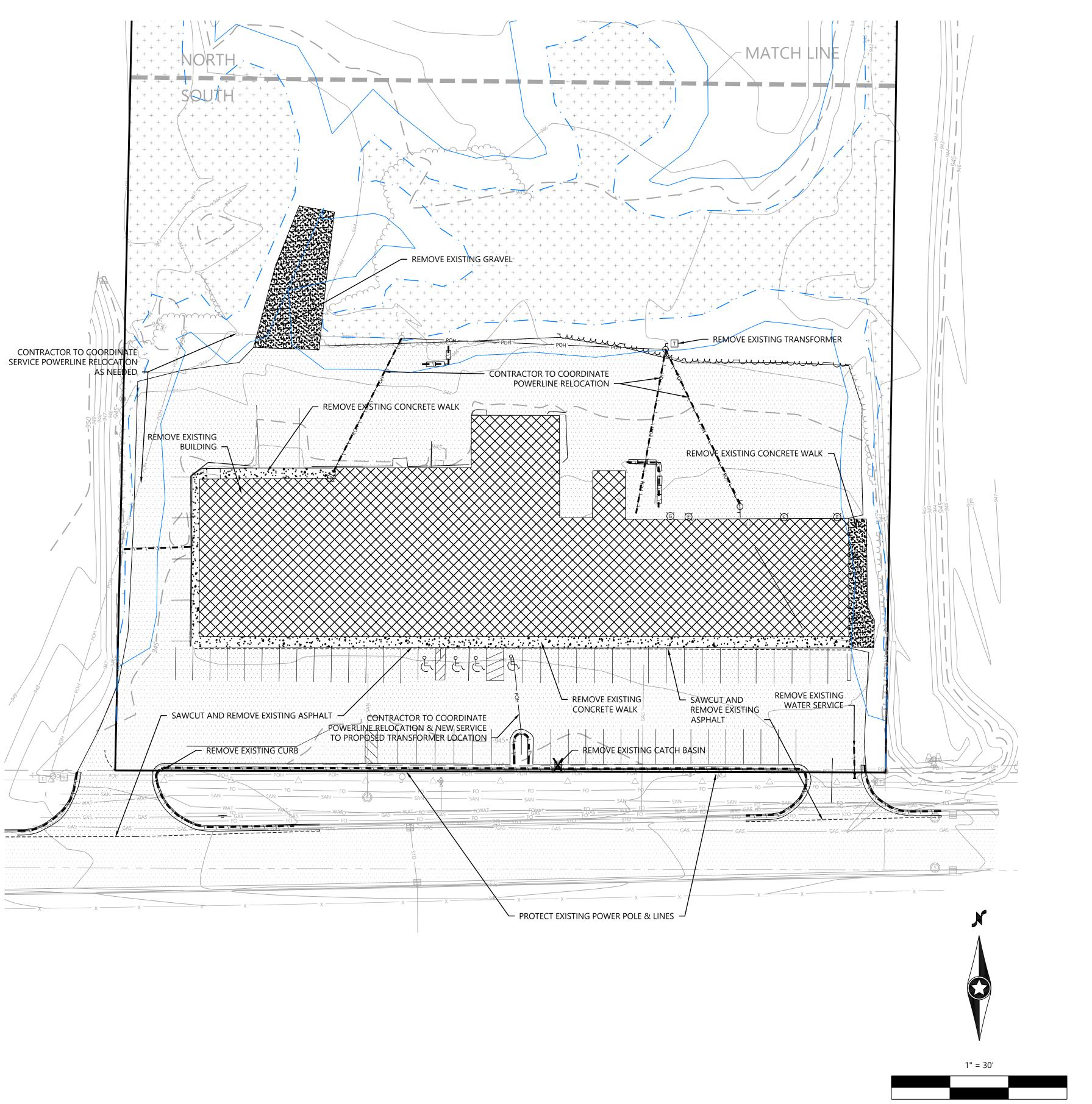
REMOVAL LEGEND

<u>EXISTING</u>		PROPOSED	
			PROPERTY LINE
			SAW CUT PAVEMENT
· · _		· ·	DELINEATED WETLAND EDGE
<u>EXISTING</u>		<u>REMOVALS</u>	
			CURB & GUTTER
SAN		— \— \— \ , \— \— \— \— \	SANITARY SEWER
		— \— \— \ \\\	WATER MAIN
——— WAT ———	 \$	— 	HYDRANT
STO		——————————————————————————————————————	STORM SEWER
———— GAS ———			GAS
———— PUG ———			UNDERGROUND ELECTRIC
POH		\ 	OVERHEAD ELECTRIC
——— TUG ———			UNDERGROUND TELEPHONE
——— ТОН ———		\-\-\	OVERHEAD TELEPHONE
FO			TELEPHONE FIBER OPTIC
CTV			CABLE TELEVISION
			RETAINING WALL
x			FENCE
			CONCRETE
			BITUMINOUS
. 104			BUILDING
卷			TREE
*		*	LIGHT POLE
-0-		X	TRAFFIC SIGN
		-0-0	CONSTRUCTION BARRICADE
⊕ SB-19			SOIL BORING LOCATION

C101

DATE: 01/17/2024 PROJECT NUMBER: 0036502.00





NOT FOR CONSTRUCTION

EXISTING	PROPOSED	
		PROPERTY LINE
		LOT LINE
		SETBACK LINE
		EASEMENT LINE
		CURB AND GUTTER
		TIP-OUT CURB AND GUTTER
		DELINEATED WETLAND EDGE
		16.5' WETLAND BUFFER
		WETLAND SETBACKS (20' PARKING, 35' BUILDII
		100-YEAR HWL - 945.2
		100-YEAR HWL SETBACKS
	· · · ·	BASIN TREATMENT WATER LEVEL
		RETAINING WALL
x	x	FENCE
		CONCRETE SIDEWALK
		CONCRETE PAVEMENT
		NORMAL DUTY BITUMINOUS PAVEMENT
	5	NUMBER OF PARKING STALLS
	Т	TRANSFORMER
*	_	SITE LIGHTING
0	<u> </u>	TRAFFIC SIGN

GENERAL SITE NOTES

- 1. BACKGROUND INFORMATION FOR THIS PROJECT PROVIDED BY WESTWOOD PROFESSIONAL
- 2. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. IF ANY DISCREPANCIES ARE FOUND, THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
- 4. ALL DIMENSIONS ARE TO FACE OF CURB OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE
- 5. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF
- 6. ALL CURB RADII ARE SHALL BE 3.0 FEET (TO FACE OF CURB) UNLESS OTHERWISE NOTED.
- CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
- 10. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO

SITE DEVELOPMENT SUMMARY

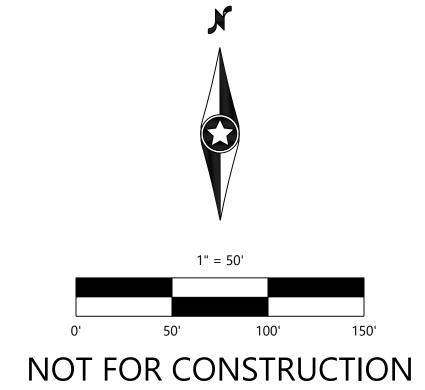
EXISTING ZONING:	PID, PLANNED I-394 DISTRICT
PROPOSED ZONING:	PID, PLANNED I-394 DISTRICT
PARCEL DESCRIPTION:	KIA OF MINNETONKA, LOT 1, BLOCK 1
PROPERTY AREA:	495,675 SF (11.379 AC)
EXISTING SURFACE: TOTAL IMPERVIOUS: TOTAL PERVIOUS:	81,492 SF (1.871 AC) (22%) 414,183 SF (9.508 AC) (78%)
PROPOSED SURFACE: TOTAL IMPERVIOUS: TOTAL PERVIOUS:	145,538 SF (3.341 AC) (39.2%) 350,137 SF (8.038 AC) (60.8%)
BUILDING GROSS SIZE:	32,085 SF
PARKING RAMP GROSS SIZE:	225,100 SF
CITY SETBACKS ZONING BUILDING:	35'=LOCAL COLLECTOR STREET 50'=EXTERIOR LOT LINE* *OR HEIGHT OF BUILDING IF GREATER THAN 50'
ZONING SURFACE PRKG:	20'=EXTERIOR LOT LINES; ROW
ZONING STRUCTURE PRKG:	35'=EXTERIOR LOT LINES ADJ TO NON-RESIDENTIAL PROPERTIES; LOCAL STREET ROW 50' OR HEIGHT OF STRUCTURE, WHICHEVER GREATER=EXTERIOR

WETLAND: 16.5'=MANAGE 2 CITY WETLAND BUFFER

100-YEAR HWL: 10'=PARKING

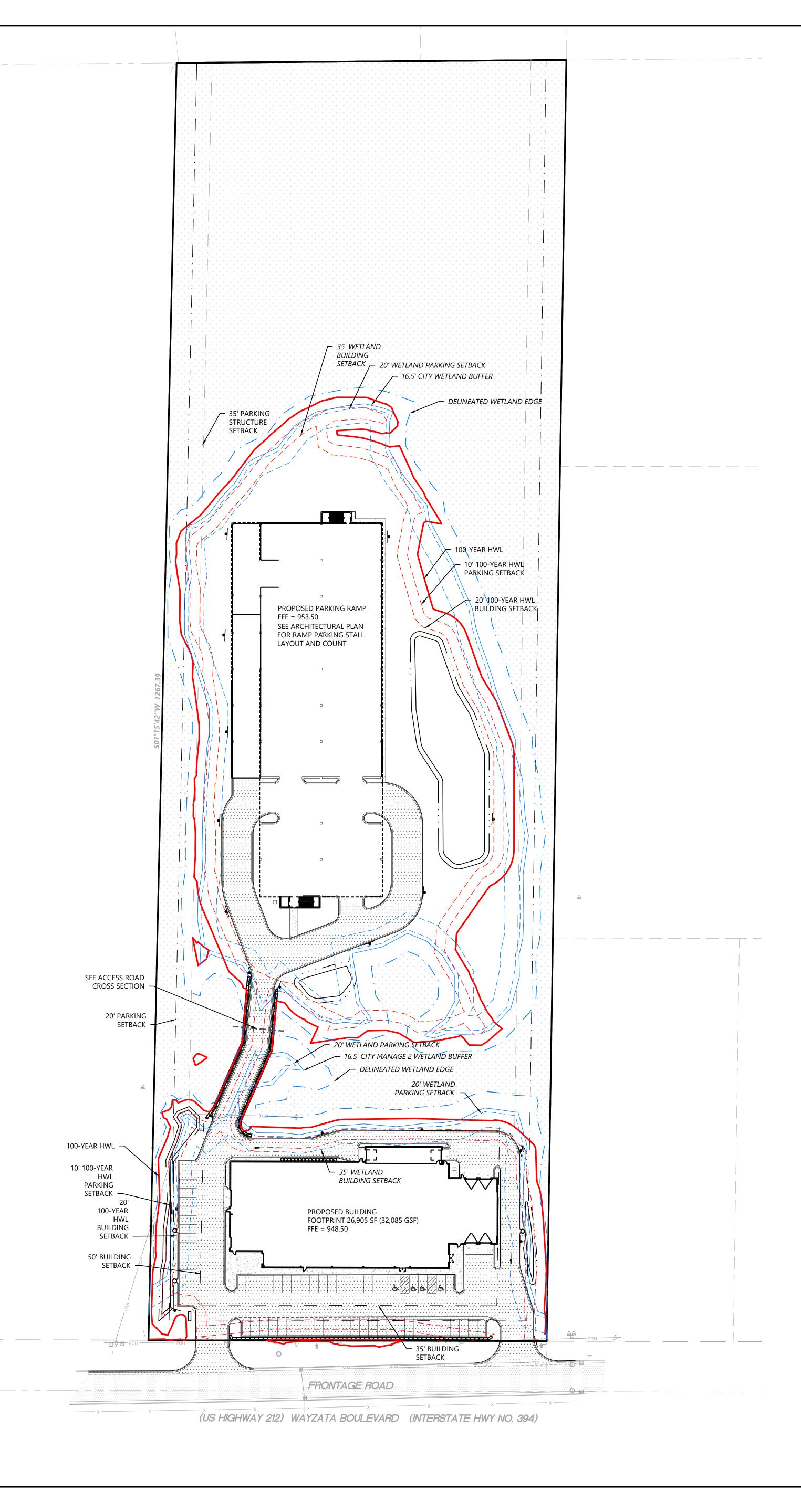
PARKING STALL/DRIVE AISLE REQ.: 8.5' WIDE X 18' LONG, 24' AISLE

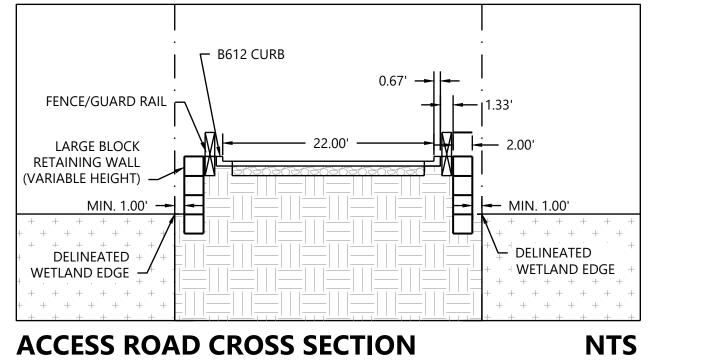
SEE ENLARGED PLANS FOR DETAIL



C200

DATE: 01/17/2024 PROJECT NUMBER: 0036502.00





POWER POLE BOLLARD / POST

SERVICES, MINNETONKA, MN, MAY 24, 2022.

3. REFER TO BOUNDARY SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS.

EXITS, RAMPS, AND TRUCK DOCKS.

7. ALL CURB AND GUTTER SHALL BE B612 UNLESS OTHERWISE NOTED.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC

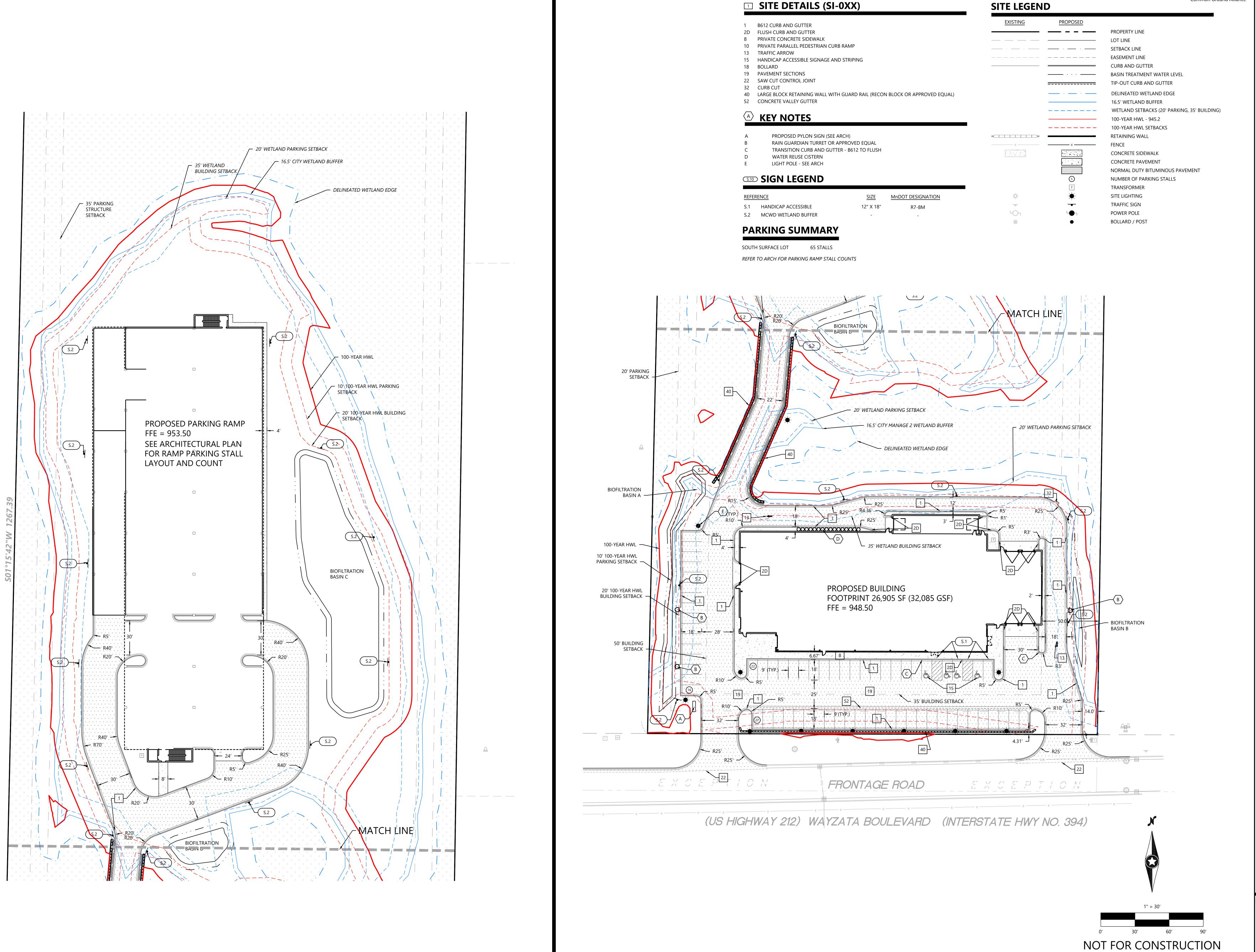
9. BITUMINOUS PAVEMENT AND CONCRETE SECTIONS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

11. SITE LIGHTING SHOWN ON PLAN IS FOR REFERENCE ONLY. REFER TO LIGHTING PLAN PREPARED BY OTHERS FOR SITE LIGHTING DETAILS AND PHOTOMETRICS.

LOT LINES ADJ. TO RESIDENTIAL; NON-LOCAL STREET ROW

20'=PARKING/DRIVE 35'=BUILDING

20'=BUILDING



Call 48 Hours before digging: 811 or call811.com
Common Ground Alliance

C201

date: 01/17/2024 PROJECT NUMBER: 0036502.00

FRONTAGE ROAD

(US HIGHWAY 212) WAYZATA BOULEVARD (INTERSTATE HWY NO. 394)

GRADING LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
980	<u> </u>	INDEX CONTOUR
982	982	INTERVAL CONTOUR
		CURB AND GUTTER
sto —	 ▶■	STORM SEWER
\triangledown		FLARED END SECTION (WITH RIPRAP)
WAT	<u> </u>	WATER MAIN
SAN		SANITARY SEWER
		RETAINING WALL
		DRAIN TILE
		RIDGE LINE
		GRADING LIMITS
× 900.00	× 900.00	SPOT ELEVATION
	0.00%	FLOW DIRECTION
	$\frac{TW = XXX.XX}{BW = XXX.XX}$	TOP AND BOTTOM OF RETAINING WALL
	E.O.F.—× ■	EMERGENCY OVERFLOW
♦ SB-19	⊕ SB-19	SOIL BORING LOCATION
	· ·	DELINEATED WETLAND EDGE
		16.5' WETLAND BUFFER
		WETLAND SETBACKS (20' PARKING, 35' BUILDING
		100-YEAR HWL - 945.2

GRADING NOTES

- 1. LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED
- 2. CONTRACTORS SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVEMENT, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, AND EXACT
- 3. ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
- 7. CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.
- 9. SEE SOILS REPORT FOR PAVEMENT THICKNESSES AND HOLD DOWNS.

- SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE ORDINARY
- 16. ALL SOILS AND MATERIALS TESTING SHALL BE COMPLETED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOILS TESTS AND

C300

DATE: 01/17/2024

PROJECT NUMBER: 0036502.00

811 or call811.com Common Ground Alliance

Call 48 Hours before digging:

- IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- LOCATIONS AND NUMBER OF DOWNSPOUTS.
- 4. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE SIX INCHES OF TOPSOIL AND SOD OR SEED. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. SEE LANDSCAPE PLAN FOR PLANTING AND TURF ESTABLISHMENT.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
- 6. ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON THIS
- 8. SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE
- 10. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL THAT EXISTS AFTER THE SITE GRADING AND UTILITY CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL MATERIAL IN A MANNER ACCEPTABLE TO THE OWNER AND THE REGULATING
- 11. CONTRACTOR SHALL PROVIDE A STRUCTURAL RETAINING WALL DESIGN CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
- 12. ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- 13. PRIOR TO PLACEMENT OF ANY STRUCTURE OR PAVEMENT, A PROOF ROLL, AT MINIMUM, WILL BE REQUIRED ON THE SUBGRADE. PROOF ROLLING SHALL BE ACCOMPLISHED BY MAKING MINIMUM OF 2 COMPLETE PASSES WITH FULLY-LOADED TANDEM-AXLE DUMP TRUCK, OR APPROVED EQUAL, IN EACH OF 2 PERPENDICULAR DIRECTIONS WHILE UNDER SUPERVISION AND DIRECTION OF THE INDEPENDENT TESTING LABORATORY. AREAS OF FAILURE SHALL BE EXCAVATED AND RE-COMPACTED AS SPECIFIED HEREIN.
- 14. EMBANKMENT MATERIAL PLACED BENEATH BUILDINGS AND STREET OR PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD AS OUTLINED IN MNDOT 2105.3F1 AND THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.
- 15. EMBANKMENT MATERIAL NOT PLACED IN THE BUILDING PAD, STREETS OR PARKING AREA, COMPACTION METHOD AS OUTLINED IN MNDOT 2105.3F2.
- UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.

GRADING NOTES

- LOCATIONS AND ELEVATIONS OF EXISTING TOPOGRAPHY AND UTILITIES AS SHOWN ON 10. CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL THAT EXISTS AFTER THE THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO EXCAVATION/CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- CONTRACTORS SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SLOPED PAVEMENT, EXIT PORCHES, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, AND EXACT LOCATIONS AND NUMBER OF DOWNSPOUTS.
- 3. ALL EXCAVATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
- 4. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE SIX INCHES OF TOPSOIL AND SOD OR SEED. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. SEE LANDSCAPE PLAN FOR PLANTING AND TURF ESTABLISHMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MNDOT STANDARDS.
- 6. ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON
- 7. CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.
- 8. SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE.
- 9. SEE SOILS REPORT FOR PAVEMENT THICKNESSES AND HOLD DOWNS.

- SITE GRADING AND UTILITY CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS SOIL MATERIAL IN A MANNER ACCEPTABLE TO THE OWNER AND THE REGULATING AGENCIES.
- 11. CONTRACTOR SHALL PROVIDE A STRUCTURAL RETAINING WALL DESIGN CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
- 12. ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

REQUIREMENTS.

- 13. PRIOR TO PLACEMENT OF ANY STRUCTURE OR PAVEMENT, A PROOF ROLL, AT MINIMUM, WILL BE REQUIRED ON THE SUBGRADE. PROOF ROLLING SHALL BE ACCOMPLISHED BY MAKING MINIMUM OF 2 COMPLETE PASSES WITH FULLY-LOADED TANDEM-AXLE DUMP TRUCK, OR APPROVED EQUAL, IN EACH OF 2 PERPENDICULAR DIRECTIONS WHILE UNDER SUPERVISION AND DIRECTION OF THE INDEPENDENT TESTING LABORATORY. AREAS OF
- 14. EMBANKMENT MATERIAL PLACED BENEATH BUILDINGS AND STREET OR PARKING AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFIED DENSITY METHOD AS OUTLINED IN MNDOT 2105.3F1 AND THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.

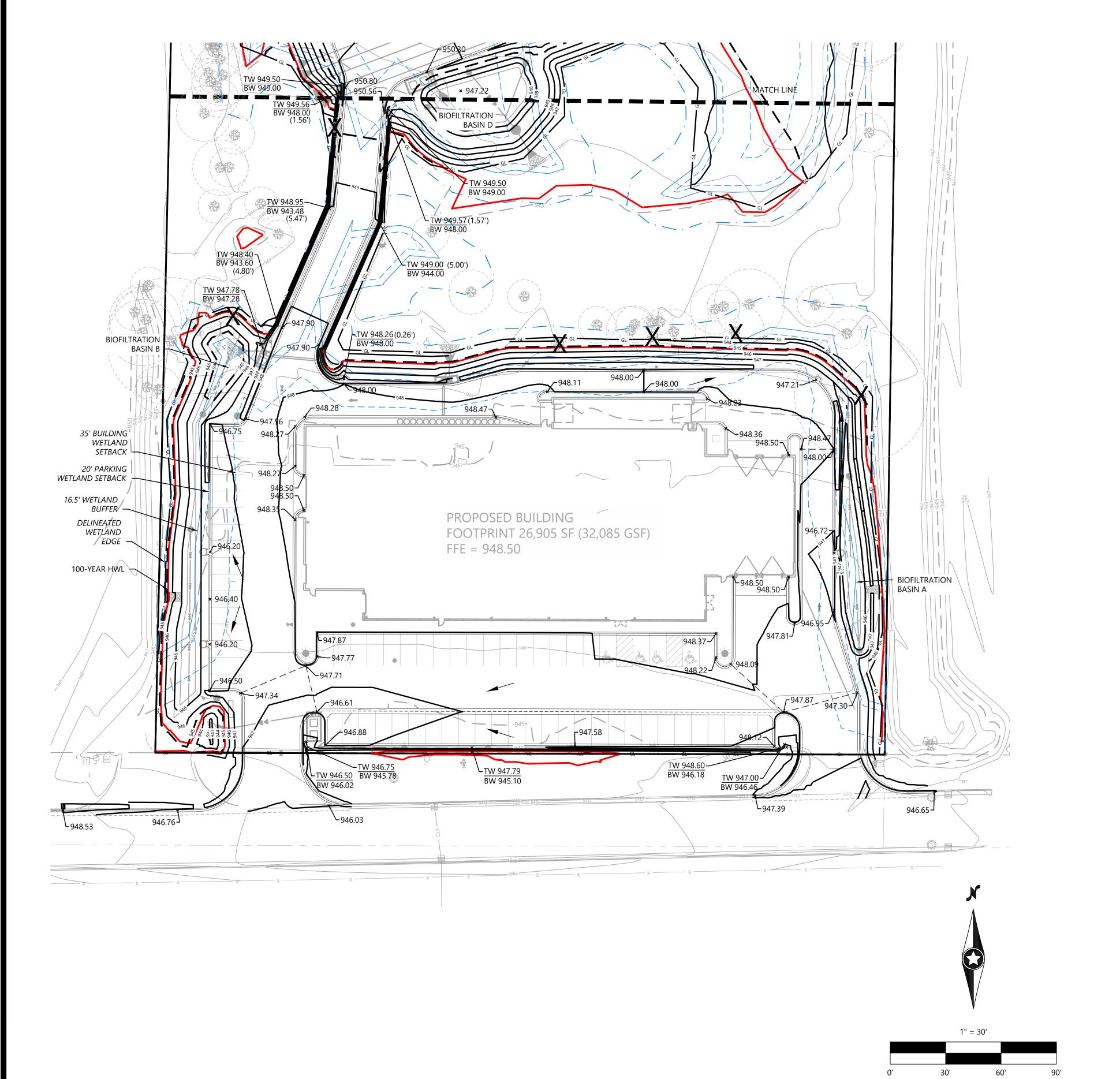
FAILURE SHALL BE EXCAVATED AND RE-COMPACTED AS SPECIFIED HEREIN.

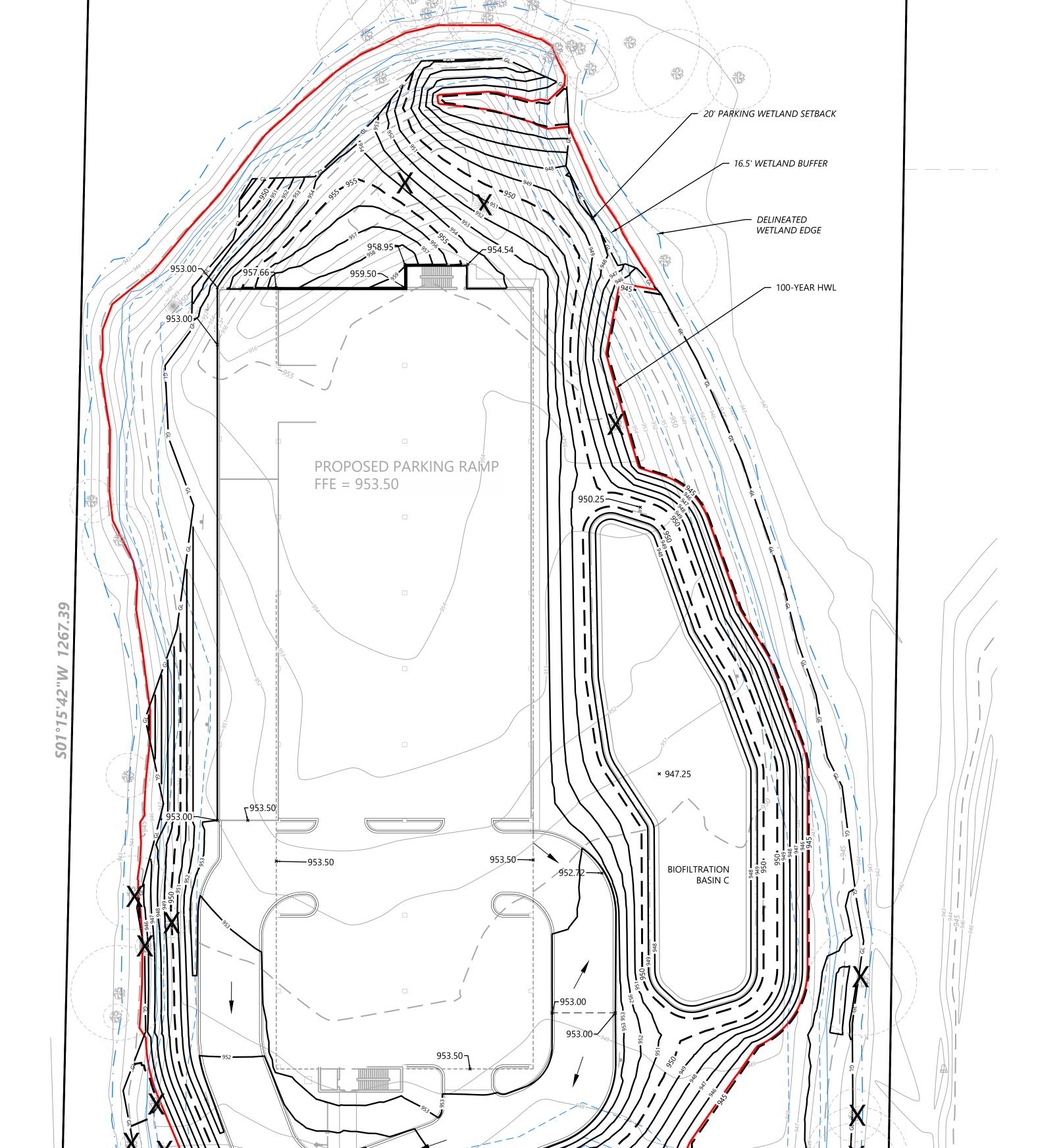
- 15. EMBANKMENT MATERIAL NOT PLACED IN THE BUILDING PAD, STREETS OR PARKING AREA, SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS OF THE ORDINARY COMPACTION METHOD AS OUTLINED IN MNDOT 2105.3F2.
- 16. ALL SOILS AND MATERIALS TESTING SHALL BE COMPLETED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. EXCAVATION FOR THE PURPOSE OF REMOVING UNSTABLE OR UNSUITABLE SOILS SHALL BE COMPLETED AS REQUIRED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOILS TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.

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UK/	₹DII	NG L	.EU	CINL

EXISTING	PROPOSED	
		PROPERTY LINE
980	<u> </u>	INDEX CONTOUR
	982	INTERVAL CONTOUR
		CURB AND GUTTER
	· · ·	POND NORMAL WATER LEVEL
STO —	──→	STORM SEWER
\forall		FLARED END SECTION (WITH RIPRAP)
——— WAT ———	<u> </u>	WATER MAIN
SAN	——	SANITARY SEWER
		RETAINING WALL
		DRAIN TILE
		RIDGE LINE
		GRADING LIMITS
× 900.00	× 900.00	SPOT ELEVATION
	0.00%	FLOW DIRECTION
	TW=XXX.XX BW=XXX.XX	TOP AND BOTTOM OF RETAINING WALL
	E.O.F.— →	EMERGENCY OVERFLOW
⊕ SB-19	⊕ SB-19	SOIL BORING LOCATION

DELINEATED WETLAND EDGE 16.5' WETLAND BUFFER — — — — — WETLAND SETBACKS (20' PARKING, 35' BUILDING) 100-YEAR HWL - 945.2





C301

DATE: 01/17/2024

NOT FOR CONSTRUCTION

GENERAL EROSION CONTROL NOTES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND LIMITED MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION SHALL NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER OR ENGINEER OF DISCREPANCIES.

22-111 AT 30.5-POUNDS PER ACRE.

EROSION CONTROL BLANKET IS REQUIRED.

TO TRAP SEDIMENT.

REQUIREMENTS.

POSITIVE OUTFLOW.

TEMPORARY (LESS THAN 1-YEAR) SEED SHALL BE MNDOT SEED MIX 21-112

GENERAL SEEDING SHALL BE MNDOT SEED MIX 25-151 AT 70-POUNDS PER

(FALL) OR 21-111 (SPRING/SUMMER) AT 100-POUNDS PER ACRE

10. ALL TEMPORARY STOCKPILES MUST HAVE SILT FENCE INSTALLED AROUND THEM

11. ALL CONSTRUCTION SHALL CONFORM TO LOCAL AND STATE RULES INCLUDING

12. THE SITE MUST BE KEPT IN A WELL-DRAINED CONDITION AT ALL TIMES. THE

CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DITCHES, PIPING OR

LOW POINTS IN ROADWAYS OR BUILDING PADS MUST BE PROVIDED WITH A

13. PUBLIC STREETS USED FOR HAULING SHALL BE KEPT FREE OF SOIL AND DEBRIS.

STREET SWEEPING SHALL BE CONCURRENT WITH SITE WORK.

OTHER MEANS REQUIRED TO INSURE PROPER DRAINAGE DURING CONSTRUCTION.

THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

D. MULCH SHALL BE MNDOT TYPE 1 APPLIED AT 2-TONS PER ACRE.

- ALL SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL 9. FOR AREAS WITH SLOPE OF 3:1 OR GREATER, RESTORATION WITH SOD OR VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED. EXISTING SILT FENCE ON-SITE SHALL BE MAINTAINED AND OR REMOVED AND SHALL BE CONSIDERED INCIDENTAL TO THE GRADING CONTRACT. IT IS OF EXTREME IMPORTANCE TO BE AWARE OF CURRENT FIELD CONDITIONS WITH RESPECT TO EROSION CONTROL. TEMPORARY PONDING, DIKES, HAYBALES, ETC., REQUIRED BY THE CITY SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
- EROSION AND SILTATION CONTROL (ESC): THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO CONTROL THE EROSION AND SILTATION INCLUDING BUT NOT LIMITED TO: CATCH BASIN INSERTS, CONSTRUCTION ENTRANCES, EROSION CONTROL BLANKET, AND SILT FENCE. ESC SHALL COMMENCE WITH GRADING AND CONTINUE THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR'S RESPONSIBILITY INCLUDES ALL IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE OWNER MAY DIRECT THE CONTRACTOR'S METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITION OF SILT OR MUD ON NEW OR EXISTING PAVEMENT OR IN EXISTING STORM SEWERS OR SWALES SHALL BE REMOVED AFTER EACH RAIN EVENT. AFFECTED AREAS SHALL BE CLEANED TO THE SATISFACTION OF THE OWNER, ALL AT THE EXPENSE OF THE CONTRACTOR. ALL TEMPORARY EROSION CONTROL SHALL BE REMOVED BY THE CONTRACTOR AFTER THE TURF IS ESTABLISHED.
- 4. ALL STREETS DISTURBED DURING WORKING HOURS MUST BE CLEANED AT THE END OF EACH WORKING DAY. A CONSTRUCTION ENTRANCE TO THE SITE MUST BE PROVIDED ACCORDING TO DETAILS TO REDUCE TRACKING OF DIRT ONTO PUBLIC
- 5. ALL UNPAVED AREAS ALTERED DUE TO CONSTRUCTION ACTIVITIES MUST BE RESTORED WITH SEED AND MULCH, SOD, EROSION CONTROL BLANKET OR BE HARD SURFACE WITHIN 2 WEEKS OF COMPLETION OF CONSTRUCTION.
- 6. THE SITE MUST BE STABILIZED PER THE REQUIREMENTS OF THE MPCA, NPDES, MNDOT, AND CITY.
- A. TEMPORARY (GREATER THAN 1-YEAR) SEED SHALL BE MNDOT SEED MIX

EROSION CONTROL LEGEND

<u>PROPOSED</u> PROPERTY LINE INDEX CONTOUR INTERVAL CONTOUR CURB AND GUTTER DELINEATED WETLAND EDGE REDUNDANT SILT CONTROL STORM SEWER FLARED END SECTION (WITH RIPRAP) WATER MAIN SANITARY SEWER **RETAINING WALL** DRAIN TILE **GRADING LIMITS** ROCK CONSTRUCTION ENTRANCE EROSION CONTROL BLANKET TURF REINFORCEMENT MAT E.O.F.—× **■** EMERGENCY OVERFLOW

SOIL BORING LOCATION

INLET PROTECTION

→ SB-19

REDUNDANT BIOROLL CONSTRUCTION ENTRANCE INLET PROTECTION (TYP.)

Call 48 Hours before digging:

811 or call811.com

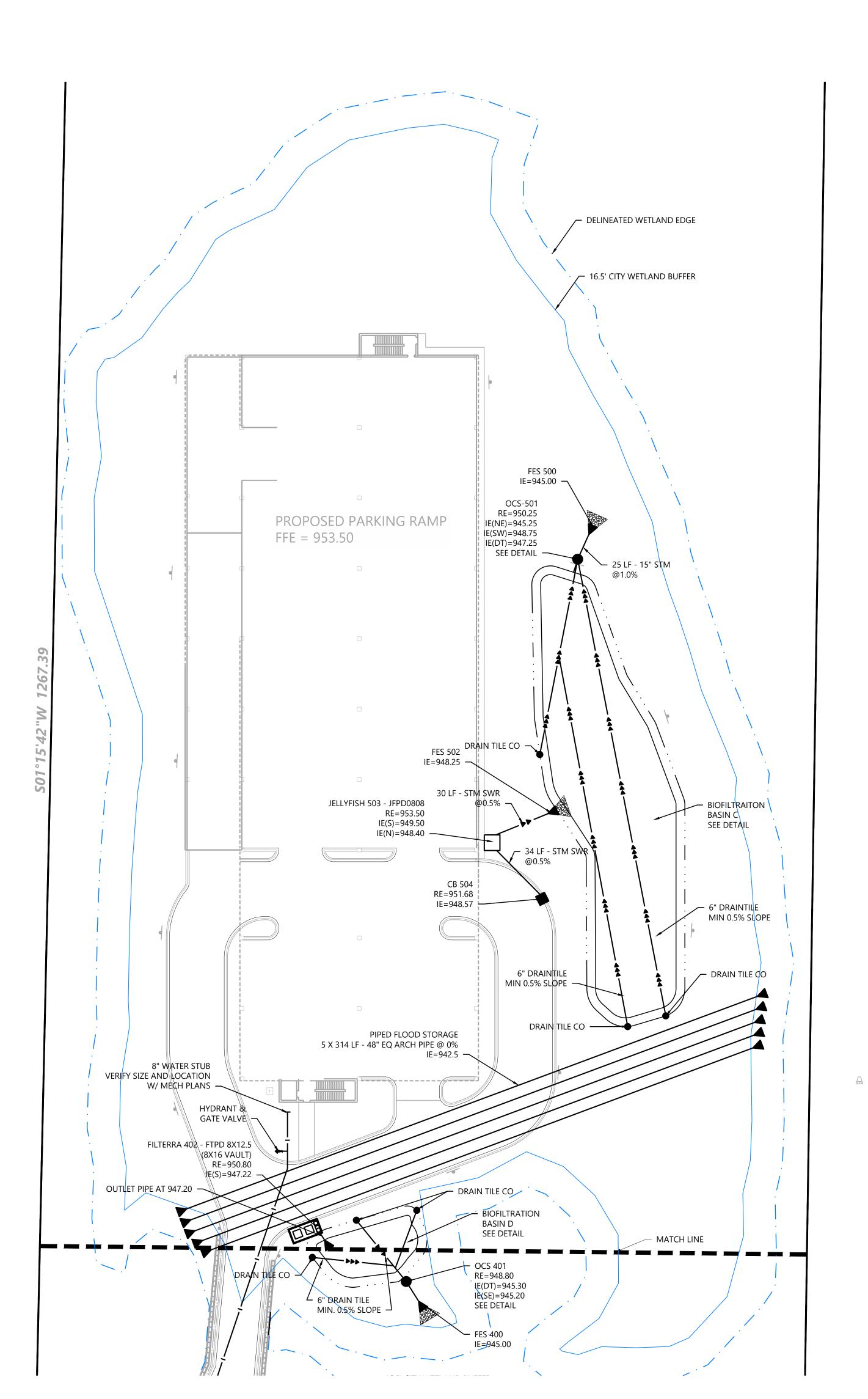
Common Ground Alliance

C400

DATE: 01/17/2024

PROJECT NUMBER: 0036502.00

NOT FOR CONSTRUCTION



GENERAL UTILITY NOTES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND LIMITED MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION SHALL NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER OR ENGINEER OF

ALL SANITARY SEWER, STORM SEWER AND WATER MAIN MATERIAL AND INSTALLATIONS SHALL BE PER CITY REQUIREMENTS. MINNESOTA PLUMBING CODE. AND IN ACCORDANCE WITH 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.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY FEDERAL, STATE AND LOCAL PERMITS FOR THE PROPOSED WORK OR VERIFY WITH THE OWNER OR ENGINEER THAT PERMITS HAVE BEEN OBTAINED. PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE ARRANGED WITH THE OWNER.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF DOORWAYS, RAMPS, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY CONNECTION LOCATIONS.

ALL PRIVATE UTILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE SERVICE LINE CONSTRUCTION WITH THE UTILITY COMPANIES.

6. CONTRACTOR SHALL OBTAIN ALL NECESSARY CITY PERMITS FOR UTILITY CONNECTIONS, AND UTILITIES SHALL BE INSPECTED AND APPROVED BY THE CITY. THE CITY SHALL BE NOTIFIED 48-HOURS PRIOR TO COMMENCING WITH THE UTILITY CONSTRUCTION OR ANY REQUIRED TESTING. CONTRACTOR SHALL NOT OPERATE, INTERFERE WITH, CONNECT ANY PIPE OR HOSE TO, OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

WATER MAIN LENGTHS AS SHOWN ARE APPROXIMATE HORIZONTAL LENGTHS. ALLOW FOR 15. ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER ADDITIONAL PIPE WHEN INSTALLING ON SLOPES OR WHEN DEFLECTIONS ARE REQUIRED. THE JOINT DEFLECTIONS SHALL NOT EXCEED THE MAXIMUM RECOMMENDED BY THE PIPE MANUFACTURER OR BY LOCAL GOVERNING SPECIFICATIONS. FITTINGS REQUIRED TO CONSTRUCT WATER MAIN SHALL BE INCLUDED IN WATER MAIN CONSTRUCTION.

8. PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.

STORM SEWER.

9. A MINIMUM VERTICAL SEPARATION OF 18 INCHES IS REQUIRED AT ALL WATER LINE CROSSINGS WITH SANITARY SEWER OR STORM SEWER. THE WATER LINE SHALL NOT HAVE JOINTS OR CONNECTION WITHIN 10-FEET OF THE CROSSING. INSULATE CROSSINGS WITH

10. UTILITY SERVICES TYPICALLY TERMINATE 5' OUTSIDE BUILDING WALL UNLESS OTHERWISE SHOWN OR NOTED.

11. DUCTILE IRON WATER LINES SHALL BE CLASS 52, PER AWWA C115 OR C151. COPPER WATER LINES SHALL BE TYPE K PER ASTM B88. PVC WATER LINES SHALL BE PER AWWA C900 AND INSTALLED PER AWWA C605 IF ALLOWED BY CITY.

12. ALL WATER LINES SHALL HAVE 7.5' MINIMUM COVER. INSULATE WATER MAIN IF LESS THAN 8'

UTILITY LEGEND

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PROPERTY LINE EASEMENT LINE _____ CURB AND GUTTER DELINEATED WETLAND EDGE 16.5' WETLAND BUFFER SANITARY SEWER SANITARY SEWER FORCE MAIN _____ FM _____ FM ____ ■ STORM SEWER WATER MAIN HYDRANT UNDERGROUND ELECTRIC OVERHEAD ELECTRIC ______ POH ______ POH _____ UNDERGROUND TELEPHONE ______ TUG ______ TOH _____ OVERHEAD TELEPHONE ______ TOH ______ **TOH** _____ TELEPHONE FIBER OPTIC CABLE TELEVISION DRAIN TILE **GATE VALVE**

FLARED END SECTION (WITH RIPRAP) LIGHT POLE

BASIN D (E(DT)=945.30 IE(SE)=945.20 - 6" DRAIN TILE SEE DETAIL MIN. 0.5% SLOPE 16.5' CITY WETLAND BUFFER FILTERRA 201 - FTPD 6X8 (6X10 VAULT) RE=948.27 IE(E) = 946.80IE(W) = 944.2212 LF - STM SWR @ 0.5% -DAYLIGHT DRAIN TILE -FILTERRA 301B- FTPD 4X4 FES 200 ILTERRA 301A- FTPD 4X4 IE=944.16 **-**RE=947.48 HYDRANT & GATE VALVE RE=947.48 IE(N) = 943.906" DRAIN TILE IE(N) = 943.90MIN. 0.5% SLOPE -IE(S) = 946.48- 26 LF - 6" WATER 114 LF - 6" WATER DAYLIGHT DRAIN TILE DRAIN TILE CO — 000000000000000 16 - 36" VERTICAL TANKS FOR ROOF WATER REUSE — 8" WATER STUB DRAIN TILE CO VERIFY LOCATION AND SIZE W/ MECH PLANS PROPOSED BUILDING RAIN GUARDIAN TURRET - 6" DRAIN TILE MIN. 0.5% SLOPE SSWR STUB · RAIN GUARDIAN TÜRRE IE=942.5 RE=946.20 VERIFY LOCATION AND FFE = 948.50 BIOFILTRATION IE=945.20 BIOFILTRATION BASIN A SIZE W/ MECH PLANS CONNECT TO EX. SANITARY STUB SEE DETAIL SEE DETAIL _ 14 LF - 6" SSWR RE=947.58 @ 2.07% IE=941.91 (FIELD VERIFY LOCATION AND ELEVATION) 6" DRAIN TILE RE=948.44 MIN. 0.5% SLOPE IE=942.21 RAIN GUARDIAN TURRET DRAIN TILE CO RE=946.20 IE=945.20 DAYLIGHT DRAIN TILE 6" DRAIN TIL MIN./0.5% SLOP DAYLIGHT DRAIN TILE -CONNECT TO EX -- Rim Elev=945.04 WATER MAIN Inv Elev=941.17 (S)(18in) _Inv Elev=940.62 (S) (18in)

OF COVER. INSULATION SHALL BE DOW STYROFOAM HI BRAND 35 OR EQUIVALENT, WITH 4

13. SANITARY SEWER PIPE OUTSIDE THE BUILDING ENVELOPE SHALL BE POLYVINYL CHLORIDE

(PVC) SDR 35 OR 26. SDR 26 IS REQUIRED FOR DEPTHS GREATER THAN 15 FEET. SANITARY SEWER PIPE WITHIN 5 FEET OF THE BUILDING AND UNDER FOOTINGS SHALL BE SCHEDULE 40

PIPE AND CEMENT. ALL SANITARY SEWER SHALL BE TESTED ACCORDING TO MINNESOTA

PER ASTM D2665. ALL PLASTIC SANITARY SEWER SHALL BE INSTALLED PER D2321. SOLVENT

WELD JOINTS MUST INCLUDE USE OF A PRIMER WHICH IS OF A CONTRASTING COLOR TO THE

A. RCP AND HDPE PIPE MAY BE INSTALLED WITH APPROVAL OF LOCAL GOVERNING AGENCY.

B. REINFORCED CONCRETE PIPE SHALL BE CLASS 5 FOR PIPE DIAMETERS 18" AND SMALLER,

C. HDPE STORM PIPE 4- TO 10-INCHES IN DIAMETER SHALL MEET REQUIREMENTS OF

AASHTO M252. HDPE STORM PIPE 12- TO 60-INCHES IN DIAMETER SHALL MEET

D. PVC STORM SEWER PIPE AND FITTINGS SHALL BE SCHEDULE 40 PIPE PER ASTM D2665

E. CORRUGATED METAL PIPE (CMP) FOR SIZES 18- TO 120-INCH AND MUST MEET ASTM A760 OR ASTM A796 AND BE INSTALLED PER ASTM A798. CMP MAY NOT BE INSTALLED

F. ALL STORM SEWER JOINTS AND STRUCTURE CONNECTIONS SHALL BE GASTIGHT OR

16. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH

17. ALL MANHOLE CASTINGS IN PAVED AREAS SHALL BE SUMPED 0.05 FEET. RIM ELEVATIONS ON

18. ALL CATCH BASIN CASTINGS IN CURB SHALL BE SUMPED 0.15 FEET AND MANHOLE CASTINGS

IN PAVED AREAS SHALL BE SUMPED 0.05 FEET. RIM ELEVATIONS ON PLAN REFLECT THE

AN AS-BUILT RECORD OF UTILITY CONSTRUCTION. THE AS-BUILT SHALL INCLUDE LOCATION AND LENGTH DEVIATIONS OR CHANGES TO THE PLAN. CONTRACTOR TO VERIFY WITH OWNER OR ENGINEER WHETHER A PLAN WITH POST-CONSTRUCTION ELEVATIONS IS REQUIRED.

WATERTIGHT AS REQUIRED BY MINNESOTA PLUMBING CODE, PART 707.3. STORM SEWER

LOCATED WITHIN 10-FEET OF A BUILDING AND/OR WATER LINE SHALL BE TESTED PER

WITHIN 10-FEET OF A WATERMAIN, WATER SERVICE, OR A BUILDING.

CLASS 3 FOR PIPE DIAMETERS 21" AND LARGER UNLESS OTHERWISE NOTED, PER ASTM

REQUIREMENTS OF ASTM F2306. FITTINGS SHALL BE PER ASTM D3212 AND INSTALLED

INCHES OF THICKNESS.

PLUMBING CODE, PART 712.0.

PER ASTM D2321.

C76, WITH GASKETS PER ASTM C443.

AND INSTALLED PER ASTM D2321.

MINNESOTA PLUMBING CODE, PART 712.

MINNESOTA RULES, PART 7560.0150.

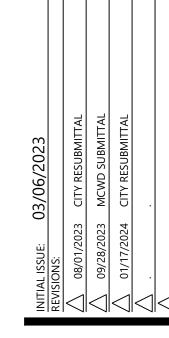
PLAN REFLECT THE SUMPED ELEVATIONS.

SUMPED ELEVATIONS.

14. STORM SEWER PIPE:

C500

NOT FOR CONSTRUCTION PROJECT NUMBER: 0036502.00



STORM

EET NUMBER: C600

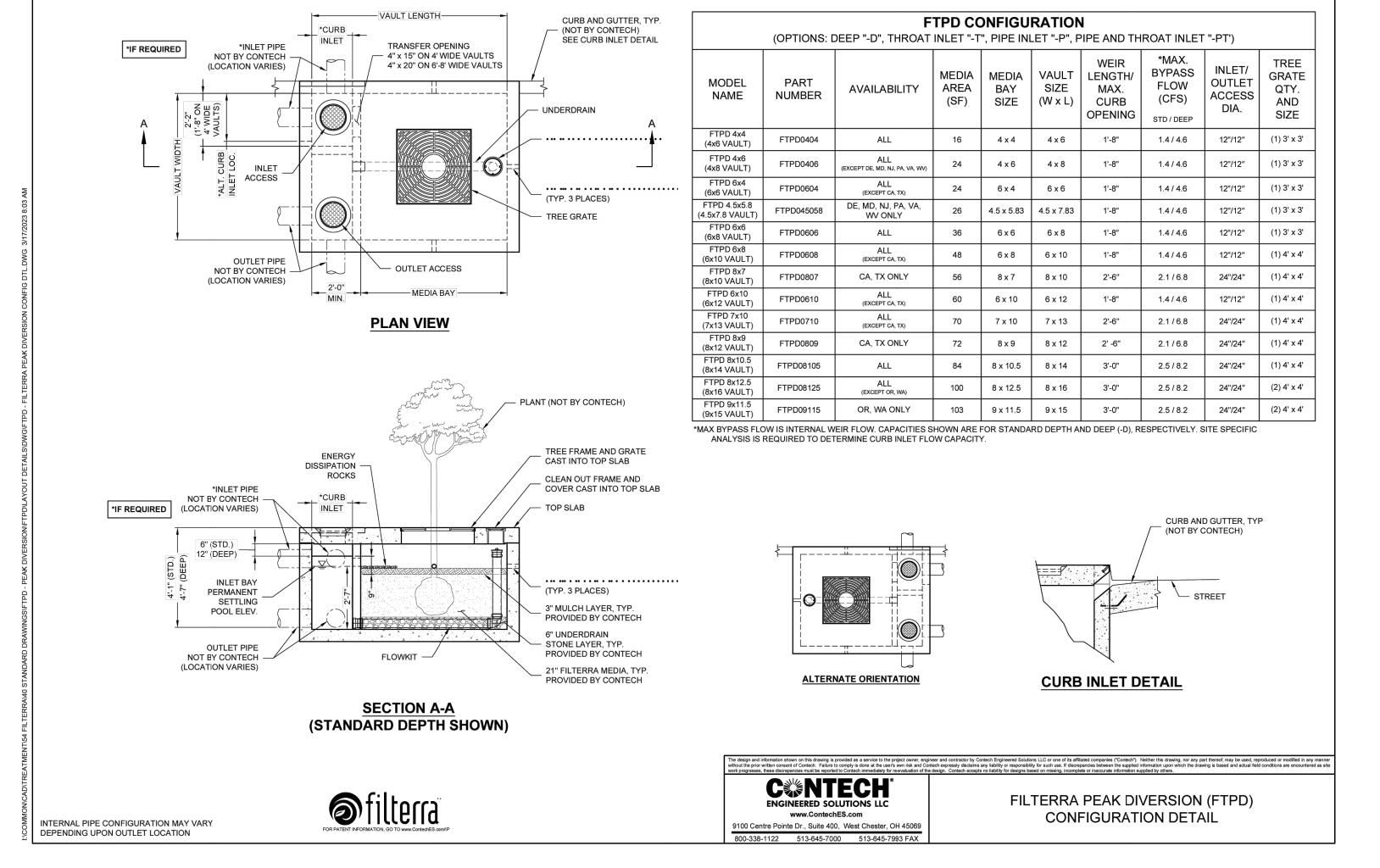
TO FLAT BAR = 1 TO FLAT BAR = 1 1/4" x 1" FLAT BAR 1/4" x 1" FLAT BAR RIPRAP CLASS 3 RIPRAP CLASS 3 (ROLLED TO PROVIDE) (ROLLED TO PROVIDE OUTER RING) OUTER RING) PROVIDE 4 1/2" SS PROVIDE 4 1/2" SS ANCHOR BOLTS ANCHOR BOLTS w/ CLIPS w/ CLIPS **SPECIFICATIONS PLAN VIEW** CURB-CUT (WIDTH VARIES) 1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS). CONCRETE SHALL HAVE A MINIMUM PLAN VIEW NOTES 1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS. CONCRETE AIR #5 SMOOTH BAR @ 4" O.C #5 SMOOTH BAR @ 4" O ENTRAINED (5% TO 8.5% BY VOLUME). MANUFACTURED AND DESIGNED AND RAIN GUARDIAN TURRET MAY VARY WITH SITE HOT DIPPED GALVANIZED HOT DIPPED GALVANIZED CONCRETE INLET -TO ASTM C858. (PROVIDE 3 1/4" x 3 1/4" (PROVIDE 3 1/4" x 3 1/4" GRATE IN 2 SECTIONS CONDITIONS. **GRATE IN 2 SECTIONS** OPENING) 2. CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH

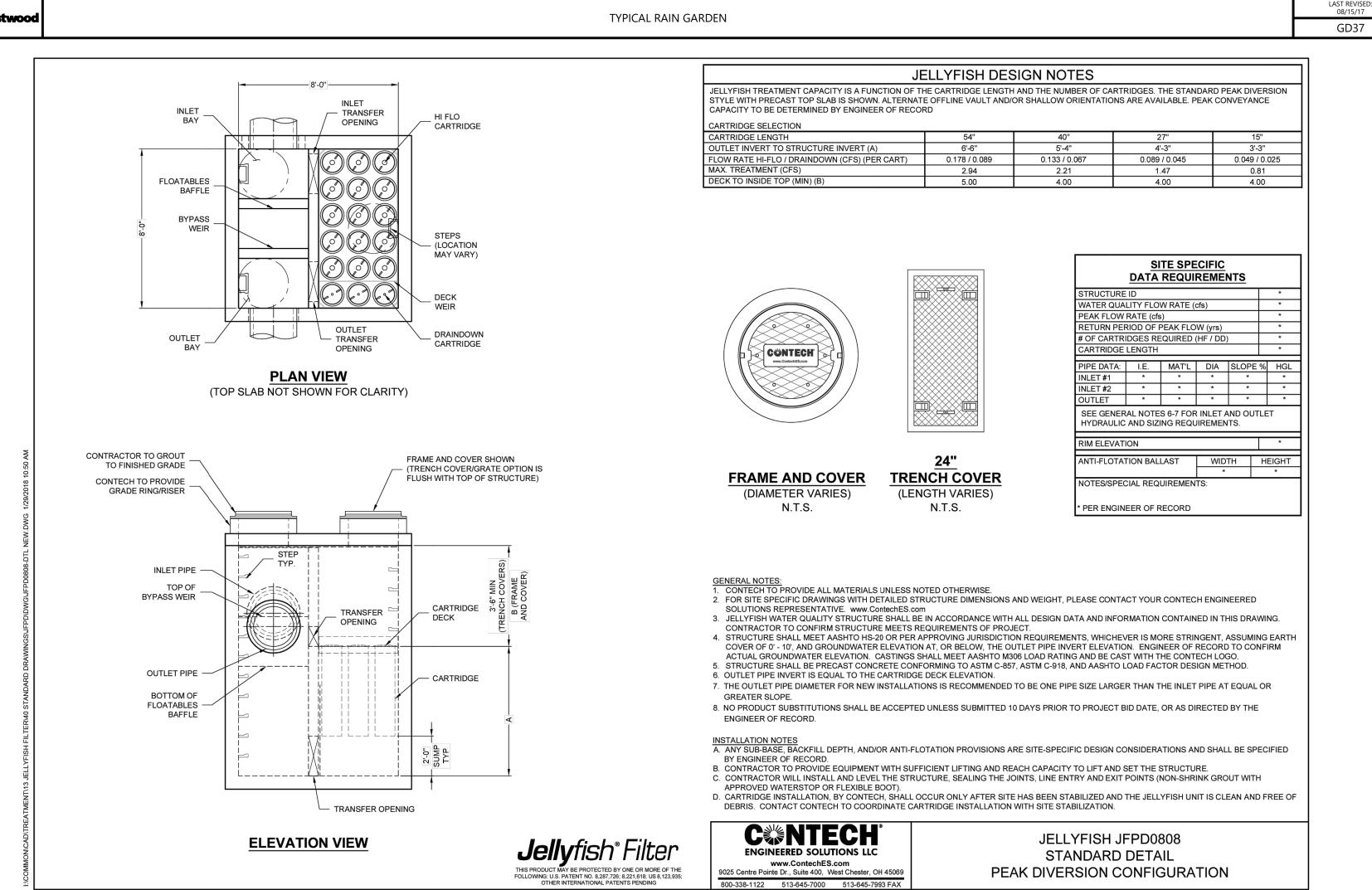
2. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK. DISSIPATOR. INSURMOUNTABLE CURB FACE INSURMOUNTABLE CURB FACE 3. FIBERGLASS TOP GRATE (32 LBS, 1-1/2" THICK) - 1,760 LB CONCENTRATED LOAD OR 409 LB/SQ-FT UNIFORM LOAD. (CONCRETE BASE INCLUDED) **3D VIEWS** INSTALLATION NOTES 1. INSTALL THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN TURRET. POSITION RAIN GUARDIAN TURRET SO PRIMARY POSITION RAIN GUARDIAN TURRET SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH FILTER OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. EXCAVATE 1' 10" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" **ELEVATION ELEVATION** CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN TURRET BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION. THE INLET TO OCS 401 - BASIN C OUTLET STRUCTURE OCS 501- BASIN D OUTLET STRUCTURE THE RAIN GUARDIAN TURRET WILL BE 10-1/2" ABOVE THE TOP OF THE **ELEVATION VIEW** CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN ANTI-WASH/GEOJUTE EROSION CONTROL FABRIC(MN/DOT 3883, TYPE 2) GUARDIAN TURRET. INLET INSURMOUNTABLE CURB -VARIES, SEE GRADING ON SIDESLOPES OF 3H:1V OR GREATER. ANCHOR FABRIC WITH SOD STAPLES RAIN GUARDIAN TURRET (CONCRETE BASE INCLUDED) AND LANDSCAPE PLANS AND PROVIDE 4" OVERLAP. TRENCH EDGES OF FABRIC TO NO CONSTRUCTION EQUIPMENT SHALL TRAVEL WITHIN THE INFILTRATION BASIN AREA. USE - RAIN GUARDIAN TURRET INLET 2. SET RAIN GUARDIAN TURRET ON THE PREPARED CLASS 5 BASE. PREVENT UNDERCUT. COVER WITH 4" DEPTH SHREDDED HARDWOOD MULCH EXCAVATOR WITH TOOTHED BUCKET FOR BASIN EXCAVATION TO AVOID COMPACTING OR SMEARING — TOP FIBERGLASS GRATE GUTTERLINE -2. FINAL EXCAVATION OF THE RAIN GARDEN AND INSTALLATION/INCORPORATION OF SOIL-MEDIA MIX S. INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN TURRET AND HIGH VOLUME OVERFLOW MUST OCCUR IN DRY SOIL CONDITIONS TO PREVENT SMEARING AND COMPACTION. DO NOT WORK IN BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH BASIN IF SOIL CONDITIONS ARE WET. THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN 3. 48-HOURS PRIOR TO BASIN OVER-EXCAVATION, THE CONTRACTOR SHALL NOTIFY THE OWNER (OR DWNER'S REPRESENTATIVE). THAT OVER-EXCAVATION WILL BE OCCURRING. TO INSPECT PRIOR TO S MAXIMUM OF 60% PASSING THE #40 SIEVE.) MEDIA PLACEMENT, AND TO VERIFY THAT EXPECTED SUB-SOIL INFILTRATION RATES WILL BE ACHIEVED. -30% ORGANIC (PEAT MOSS, HYPNUM OR SPHAGNUM) CONTRACTOR TO PROVIDE INFILTRATION TESTING, ONLY AS REQUIRED. 4. INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF 4. CARE MUST BE TAKEN TO AVOID CONTAMINATION OF SOIL MEDIA MIX WITH SEDIMENT, IN-SITU OR POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN TURRET TOPSOIL DURING AND AFTER INSTALLATION. MATERIALS MUST BE SEGREGATED. AND CONCRETE INLET BEFORE POURING INLET. AFTER OVER-EXCAVATION, AND PRIOR TO PLACEMENT OF SOIL MEDIA MIX, USE FROST RIPPER TO RE-TREATMENT NOTES:

IF NO PRE-TREATMENT STORM STRUCTURE OR SUMP IS IDENTIFIED, DEEPLY LOOSEN SUB-SOILS TO A MINIMUM DEPTH OF 24", BEFORE BACK-FILLING WITH SOIL MEDIA 5. SIDE CURBS OF THE POURED INLET MUST HAVE AN MIX. UPON PLACEMENT OF SOIL MEDIA MIX, INCORPORATE/RIP SOIL MEDIA MIX INTO THE LOOSENED PROVIDE SEDIMENT BASIN AT ALL INLETS WITH RIP RAP. VERIFY BASIN UNDERLYING SOILS A MINIMUM DEPTH OF 6". SIZE(3'X5'X1' DEEP MIN.) AND RIP RAP TYPE PER PLAN, AND/OR WITH INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM USE EXCAVATOR BUCKET TO PLACE SOIL-AMENDMENT - DO NOT USE LOADER WITHIN THE BASIN TO OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET. **ELEVATION VIEW NOTES** ENGINEER/LANDSCAPE ARCHITECT. CLASS 5 AGGREGATE EXCAVATE OR PLACE SOIL AMENDMENT. LEVELING AND FINAL GRADING WITHIN THE BIORETENTION 1. THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% BASINS MUST BE COMPLETED BY HAND. 6" PVC SLOTTED DRAINTILE, **SECTION** STANDARD PROCTOR) IS PRECISELY 1'4" BELOW THE IMMEDIATELY FOLLOWING BASIN CONSTRUCTION, THE BOTTOM AND SIDE SLOPES OF THE BASIN 6. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER ELEVATION MAY VARY IN AGGREGATE SHALL BE FULLY STABILIZED. TEMPORARY SILT FENCE SHALL BE INSTALLED AT THE TOP OF THE BASIN FABRIC ON THE INTERIOR SIDE OF THE RAIN GUARDIAN TURRET. GUTTERLINE ELEVATION. SIDE-SLOPE AND AS REQUIRED AT THE BOTTOM OF THE SIDE-SLOPE OF THE BASIN PERIMETER. COARSE FILTER AGGREGATE (MNDOT 3149.2H) ROSION CONTROL BLANKET ALONG SIDES AND BOTTOM. TEMPORARY EROSION CONTROL TO REMAIN UNTIL THE DRAINAGE AREA IS STABILIZED WITH FINAL IMPROVEMENTS. GEOTEXTILE FABRIC-POROUS FILTER FABRIC, 12" DIA. MIN. INFILTRATION RATE OF RAIN GARDEN TO BE DRY WITHIN 48 HOUR PERIOD. SEE LANDSCAPE PLAN FOR ADDITIONAL INFO ON MULCH AND PLANTINGS. O. CONTRACTOR SHALL SUBMIT PRODUCT INFO/SAMPLE FOR APPROVAL PRIOR TO INSTALLATION INVOLVING: SOIL, DRAINTILE, AGGREGATE, FILTER FABRIC, AND EROSION CONTROL FABRIC. **REVISION HISTORY** OVERFLOW STORM SEWER MANHOLE OR EARTHEN RAIN GUARDIAN TURRET OUTLET. SEE STORM SEWER PLAN REV BY DATE DESCRIPTION PRETREATMENT CHAMBER A MDH 11/16/2022 TURRET - 1 DRAINTILE VALVE IN STORM STRUCTURE, NORMALLY CLOSED, **BIORETENTION PONDING DEPTH: 1'** AS INDICATED ON PLAN MANUFACTURED BY: DRAINTILE WITH POSITIVE DRAINAGE, CONNECT **DRAINTILE/OVERFLOW SECTION** toneworks TYPICAL DETAIL SCALE VARIABLE TO STORM SEWER OR DAYLIGHT NATIONAL PRECAST CONCRETE ASSOCIATION
CERTIFIED PLANT www.RainGuardian.biz 8,501,016 AND 8,858,804 TYPICAL RAIN GARDEN

OUTSIDE MH WALL

MIN. 2 CU YARDS

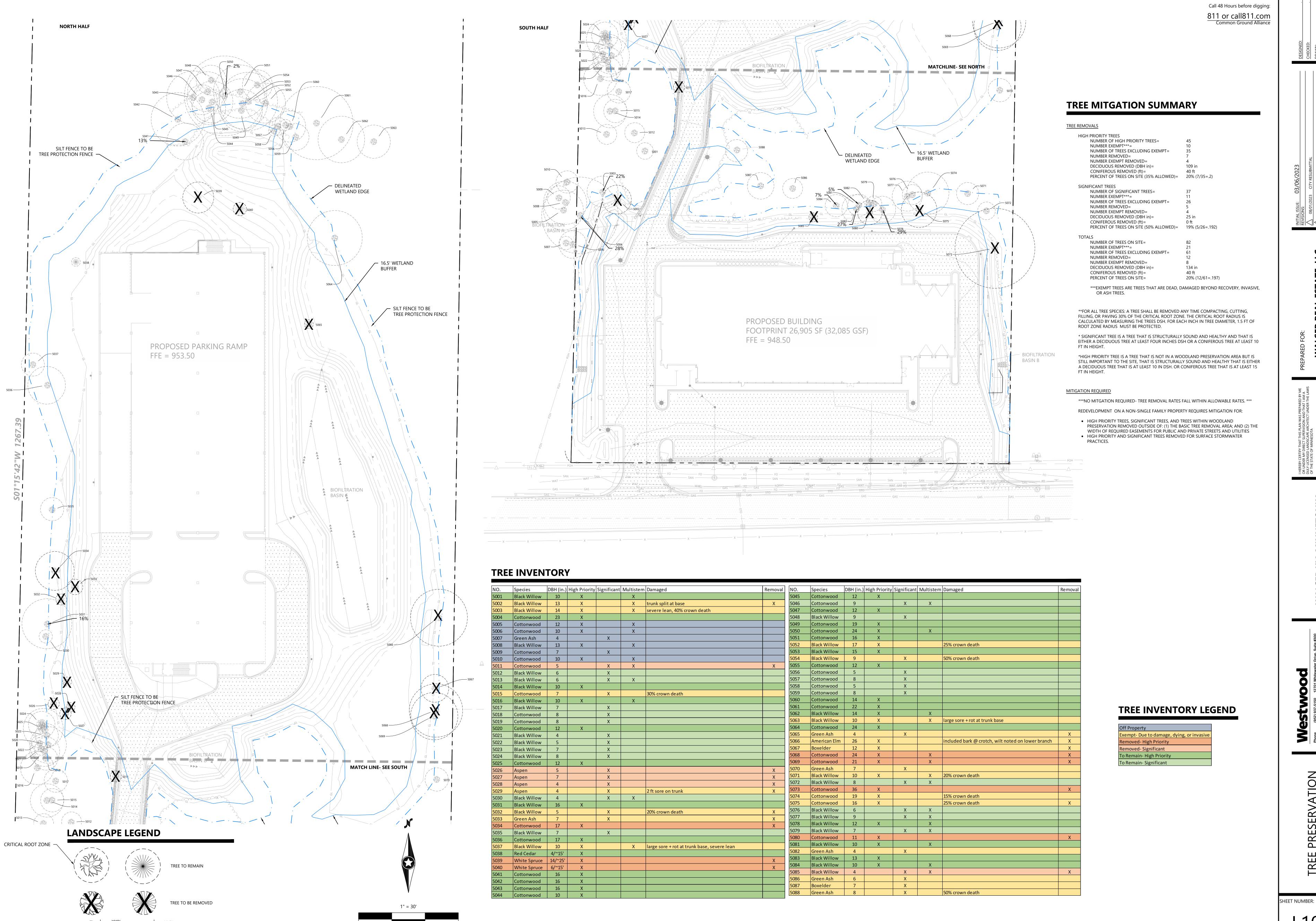




OUTSIDE MH WALL

MIN. 2 CU YARDS

DATE: 01/17/2024 PROJECT NUMBER: 0036502.00



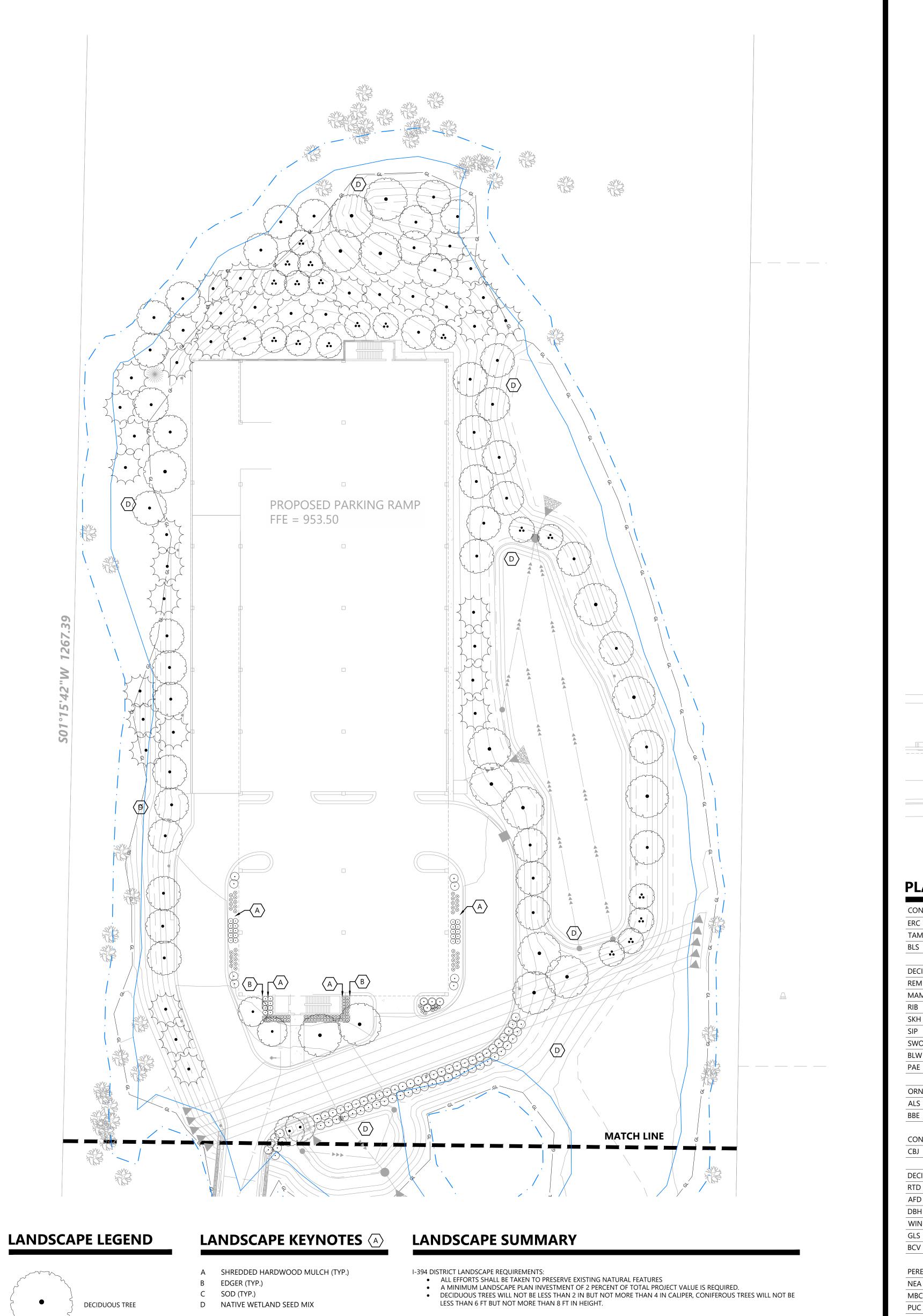
PERCENT OF CRITICAL ROOT ZONE IMPACTED BY GRADING

NOT FOR CONSTRUCTION

TREE PRESER

L100

DATE: 01/17/2024



- PARKING LOT LANDSCAPE REQUIREMENTS: ONE TREE FOR EACH 15 SURFACE PARKING SPACES.

TREES REQUIRED= 5 (65/15=4.33)

CONIFEROUS TREE

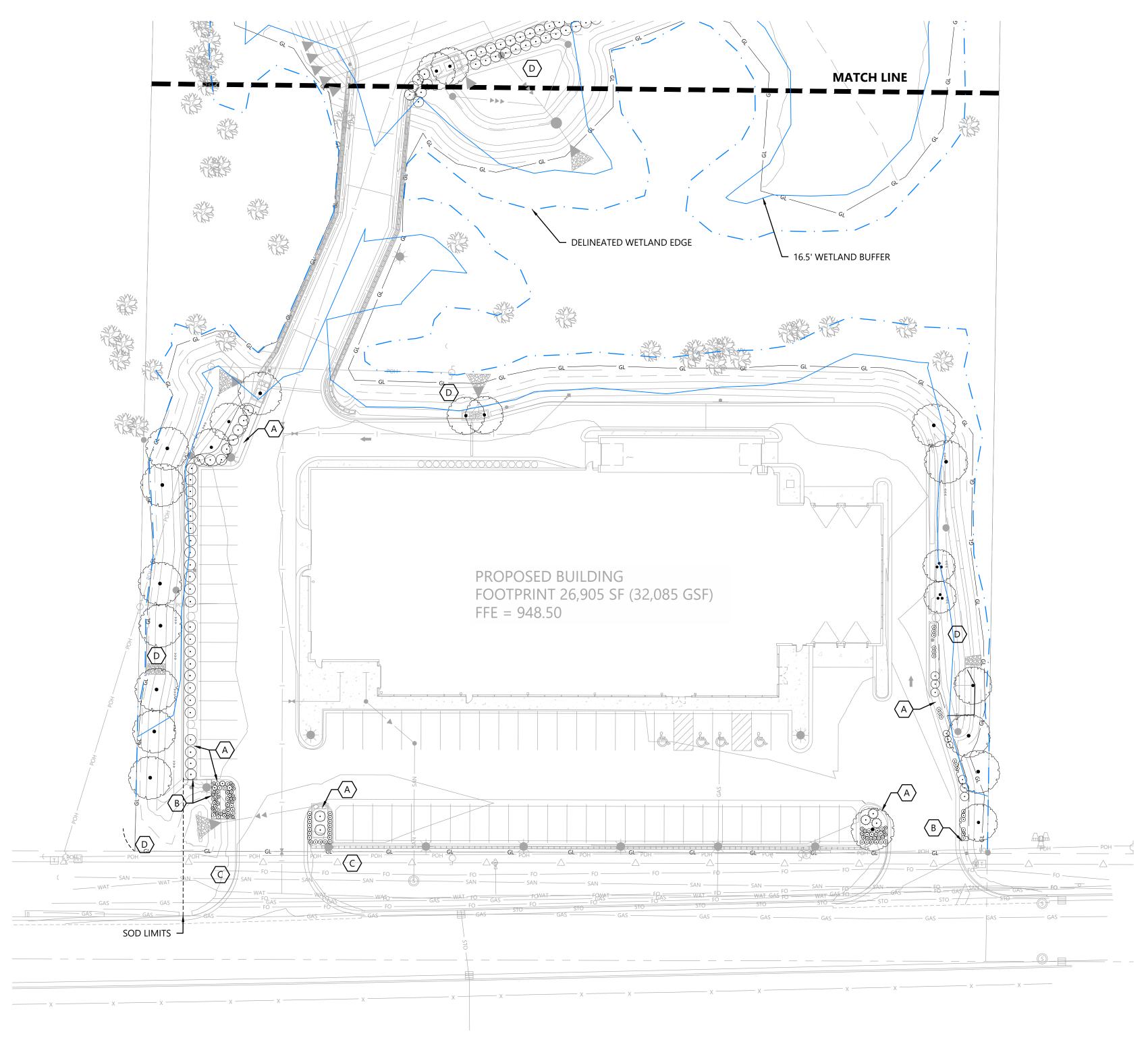
SHRUBS

PERENNIALS

EXISTING TREE

TREES PROVIDED= 136 (36 PROPOSED CONIFEROUS TREES + 70 PROPOSED DECIDUOUS TREES + 30 PROPOSED ORNAMENTAL TREES)

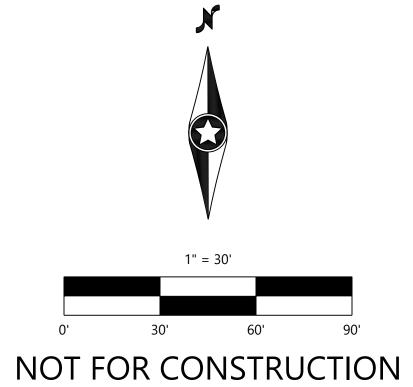
ALL NON-NATIVE SPECIES, OR CULTIVARS OF NATIVE SPECIES, TO BE LOCATED WITHIN THE PARKING LOT AND ALONG THE FRONTAGE RD. NO NON-NATIVES TO BE PLANTED IN WETLAND BUFFER AREA



PLANT SCHEDULE

CONIFEROUS TREES	QTY	36	COMMON / BOTANICAL NAME	SIZE	SPACING O.C.
ERC	17		EASTERN REDCEDAR / JUNIPERUS VIRGINIANA	8' HT B&B	AS SHOWN
TAM	9		TAMARACK / LARIX LARICINA	8' HT B&B	AS SHOWN
BLS	10		BLACK SPRUCE / PICEA MARIANA	8' HT B&B	AS SHOWN
DECIDUOUS TREES	QTY	70	COMMON / BOTANICAL NAME	SIZE	SPACING O.C.
REM	12	70	RED MAPLE / ACER RUBRUM	2.5" CAL	AS SHOWN
MAM	2		MATADOR™ FREEMAN MAPLE / ACER X FREEMANII 'BAILSTON'	2.5" CAL	+
					AS SHOWN
RIB	14		RIVER BIRCH / BETULA NIGRA	2.5" CAL	AS SHOWN
SKH	6		SKYLINE® HONEY LOCUST / GLEDITSIA TRIACANTHOS INERMIS 'SKYCOLE'	2.5" CAL	AS SHOWN
SIP	8		SIOUXLAND POPLAR / POPULUS DELTOIDES 'SIOUXLAND'	2.5" CAL	AS SHOWN
SWO	15		SWAMP WHITE OAK / QUERCUS BICOLOR	2.5" CAL	AS SHOWN
BLW	5		BLACK WILLOW / SALIX NIGRA	2.5" CAL	AS SHOWN
PAE	8		PRINCETON AMERICAN ELM/ ULMUS AMERICANA 'PRINCETON'	2.5" CAL	AS SHOWN
ORNAMENTAL TREES	QTY	30	COMMON / BOTANICAL NAME	SIZE	SPACING O.C.
ALS	20		ALLEGHENY SERVICEBERRY MULTI-TRUNK	6' HT B&B	AS SHOWN
BBE	10		BLUE BEECH / CARPINUS CAROLINIANA	2.5" CAL	AS SHOWN
	0.777	-	COMMON (POTANICAL MANAS	0.75	
CONIFEROUS SHRUBS	QTY		COMMON / BOTANICAL NAME	SIZE	SPACING O.C.
CBJ			COMMON BUSH JUNIPER / JUNIPERUS COMMUNIS DEPRESSA	#5 CONT.	4`-0" O.C.
DECIDUOUS SHRUB	QTY	143	COMMON / BOTANICAL NAME	SIZE	SPACING O.C.
RTD			RED TWIG DOGWOOD / CORNUS SERICEA	#5 CONT.	5`-0" O.C.
AFD			ARCTIC FIRE® RED TWIG DOGWOOD / CORNUS SERICEA 'FARROW'	#5 CONT.	4`-0" O.C.
DBH			DWARF BUSH HONEYSUCKLE / DIERVILLA LONICERA	#5 CONT.	3`-0" O.C.
WIN			WINTERBERRY / ILEX VERTICILLATA	#5 CONT.	5`-0" O.C.
GLS			GRO-LOW FRAGRANT SUMAC / RHUS AROMATICA 'GRO-LOW'	#5 CONT.	5`-0" O.C.
BCV			BAILEY'S COMPACT VIBURNUM / VIBURNUM TRILOBUM 'BAILEY COMPACT'	#5 CONT.	3`-0" O.C.
PERENNIALS	QTY	E 1	COMMON / BOTANICAL NAME	SIZE	SPACING O.C.
NEA	QII	J 1	NEW ENGLAND ASTER / ASTER NOVAE-ANGLIAE	#1 CONT.	18" O.C.
MBC			MOONBEAM TICKSEED / COREOPSIS VERTICILLATA 'MOONBEAM'	#1 CONT.	24" O.C.
PUC			PURPLE CONEFLOWER / ECHINACEA PURPUREA	#1 CONT.	18" O.C.
PBS			PRAIRIE BLAZINGSTAR / LIATRIS PYCNOSTACHYA	#1 CONT.	30" O.C.
BES			BLACK-EYED SUSAN / RUDBECKIA HIRTA		18" O.C.
DEO			DLACK-ETED SUSAIN / KUDDECKIA MIKTA	#1 CONT.	10 U.C.
GRASSES	QTY	160	COMMON / BOTANICAL NAME	SIZE	SPACING O.C.
KFG			KARL FOERSTER FEATHER REED GRASS / CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	#1 CONT.	24" O.C.
SSG			SHENANDOAH SWITCH GRASS / PANICUM VIRGATUM 'SHENANDOAH'	#1 CONT.	24" O.C.
BLB			BLAZE LITTLE BLUESTEM / SCHIZACHYRIUM SCOPARIUM 'BLAZE'	#1 CONT.	18" O.C.
PDS			PRAIRIE DROPSEED / SPOROBOLUS HETEROLEPIS	#1 CONT.	24" O.C.

PLANTED IN WETLAND BUFFER AREA***

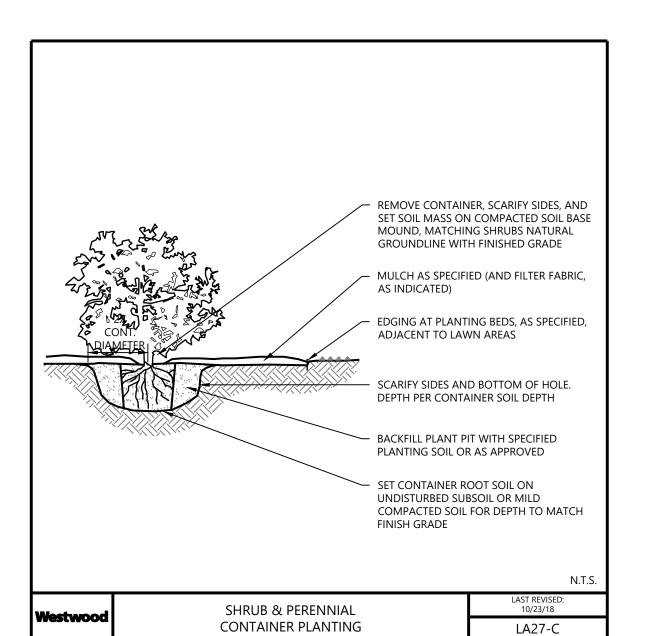


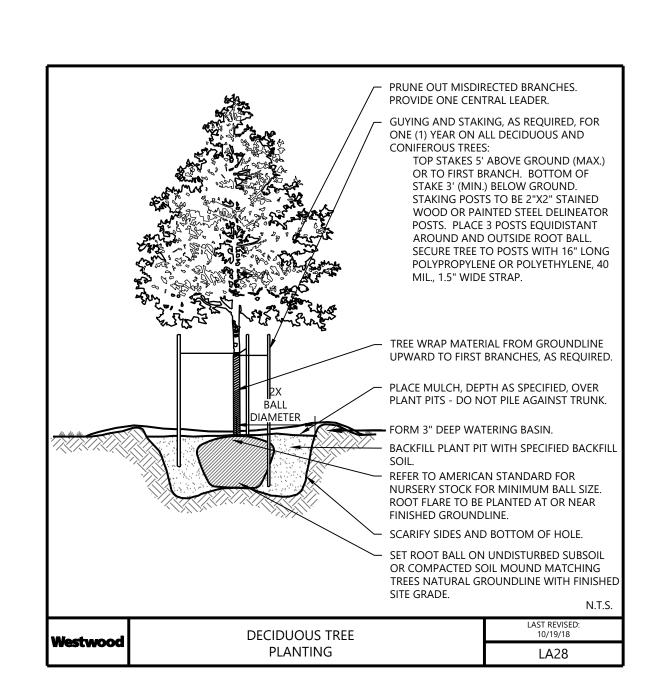
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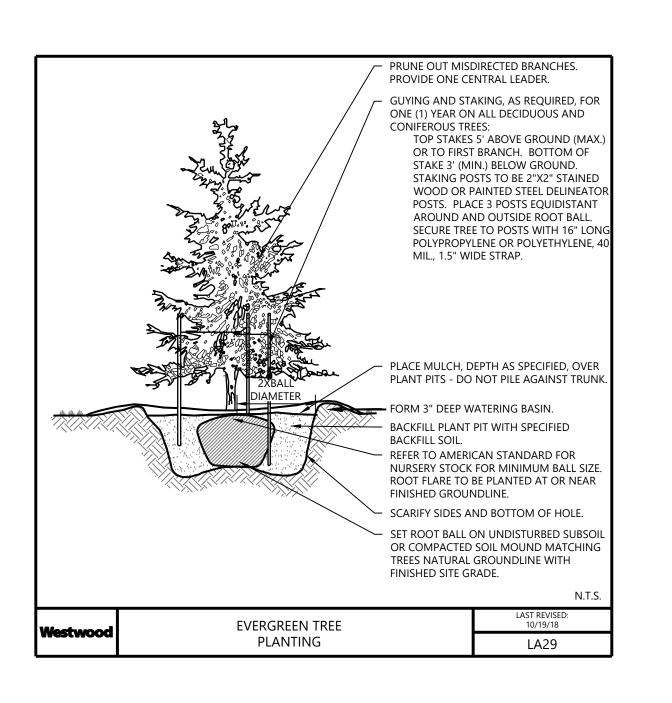
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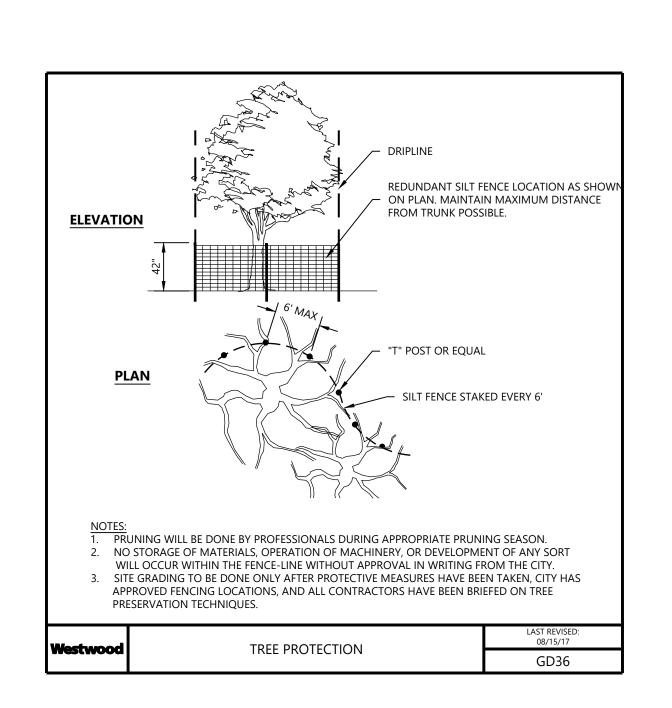
811 or call811.com
Common Ground Alliance

DATE: 01/17/2024 PROJECT NUMBER: 0036502.00









PLANTING NOTES

EXISTING AND PROPOSED TREES.

AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.

- CONTRACTOR SHALL CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
- 2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
- 3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- 4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID
- 5. CONTRACTOR SHALL PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
- 6. ALL PLANTS TO BE SPECIMEN GRADE, MINNESOTA-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
- ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
 ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
- ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
 ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
- CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
- 7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
- 8. PLANTS TO BE INSTALLED AS PER MNLA & ANSI STANDARD PLANTING PRACTICES.
- PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY;
 TEMPORARY ONLY
- 10. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLAIR IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLAIR. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLAIR SHALL BE EVEN OR SLIGHTLY
- 11. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
- 12. PRUNE PLANTS AS NECESSARY PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF
- 13. WRAP ALL SMOOTH-BARKED TREES FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
- 14. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.
- 15. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
- 16. BACKFILL SOIL AND TOPSOIL TO ADHERE TO MN/DOT STANDARD SPECIFICATION 3877 (SELECT TOPSOIL BORROW) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.
- 17. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF SHREDDED HARDWOOD MULCH. SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL COLORED, OR APPROVED EQUAL. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
- 18. EDGING TO BE COMMERCIAL GRADE VALLEY-VIEW BLACK DIAMOND (OR EQUAL) POLY EDGING OR SPADED EDGE, AS INDICATED. POLY EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH BASE OF TOP BEAD AT GRADE, FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).
- 19. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. PARKING LOT ISLANDS TO BE SODDED WITH SHREDDED HARDWOOD MULCH AROUND ALL TREES AND SHRUBS. SOD TO BE STANDARD MINNESOTA GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED. SEED AS SPECIFIED AND PER MN/DOT SPECIFICATIONS. IF NOT INDICATED ON LANDSCAPE PLAN, SEE EROSION CONTROL PLAN.
- 20. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR.
- 21. CONTRACTOR SHALL PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
- 22. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.
- 23. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.

