

LEGEND

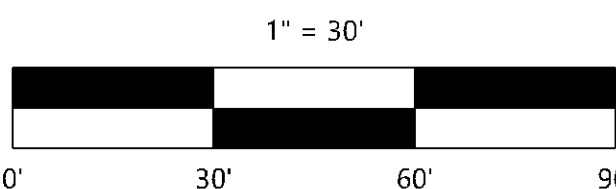
	SANITARY MANHOLE		BOUNDARY LINE
	CATCH BASIN		RIGHT-OF-WAY LINE
	FLARED END SECTION		EASEMENT LINE
	HYDRANT		SECTION LINE
	GATE VALVE		TREE LINE
	GUY WIRE		GAS LINE
	POWER POLE		POWER OVERHEAD
	HAND HOLE/JUNCTION BOX		SANITARY SEWER
	MISCELLANEOUS PEDESTAL		STORM SEWER
	SIGN		WATERMAIN
	SOIL BORING		FENCE LINE
	BUSH/SHRUB		CONTROLLED ACCESS
	CONIFEROUS TREE		CURB & GUTTER
	DECIDUOUS TREE		CONCRETE SURFACE
	FOUND MONUMENT (SEE LABEL)		BITUMINOUS SURFACE
	SET MONUMENT (SEE LABEL)		WETLAND

REMOVAL LEGEND

EXISTING	PROPOSED	PROPERTY LINE
		SAW CUT PAVEMENT
		CURB & GUTTER
		STORM SEWER
		CONCRETE
		BITUMINOUS
		TREE

REMOVAL NOTES

1. BACKGROUND INFORMATION FOR THIS PROJECT PROVIDED BY WESTWOOD PROFESSIONAL SERVICES, MINNETONKA, MN, 5/11/2023.
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. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
3. 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.
4. CONTRACTOR SHALL PLACE ALL NECESSARY EROSION CONTROL MEASURES REQUIRED TO MAINTAIN SITE STABILITY PRIOR TO EXECUTING ANY SITE REMOVALS.
5. 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.
6. SEE ALTA SURVEY PROVIDED BY WESTWOOD PROFESSIONAL SERVICES, DATED 6/1/2023, FOR LEGAL DESCRIPTION.
7. ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING AND STORAGE OF EQUIPMENT AND MATERIALS MUST BE ON-SITE. USE OF PUBLIC STREETS FOR PRIVATE CONSTRUCTION PARKING, LOADING/UNLOADING, AND STORAGE WILL NOT BE ALLOWED. ADD NOTE TO SITE PLAN AND OTHER PLAN SHEETS.



CONSTRUCTION DOCUMENTS

PL202300193
PL2023-193

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

DESIGNED	11/14/2023	ADDITIONAL 1
CHECKED	12/14/2023	CITY & WATERSEED COMMENTS
DRAWN	12/29/2023	ISSUED FOR PERMIT
APPROVED	01/09/2024	CITY RESUBMITTAL
REVISIONS	04/12/2024	ISSUED FOR BUILDING PERMIT
	06/11/2024	ADDITIONAL 1

PREPARED FOR:
ENCLAVE DEVELOPMENT
300 23RD AVE. E. SUITE 300
FARGO, ND 58078

ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

Westwood
Professional Services, Inc.
1525 Westwood Drive, Suite 200
Minnetonka, MN 55345
Phone: (952) 835-5522
Fax: (952) 835-5520
www.westwoodps.com

EXISTING CONDITIONS & REMOVALS PLAN

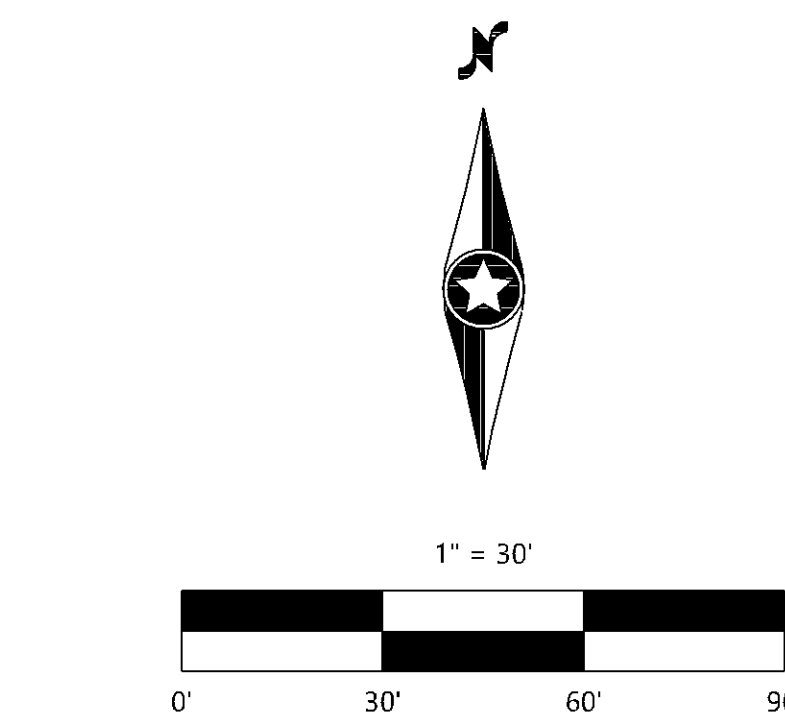
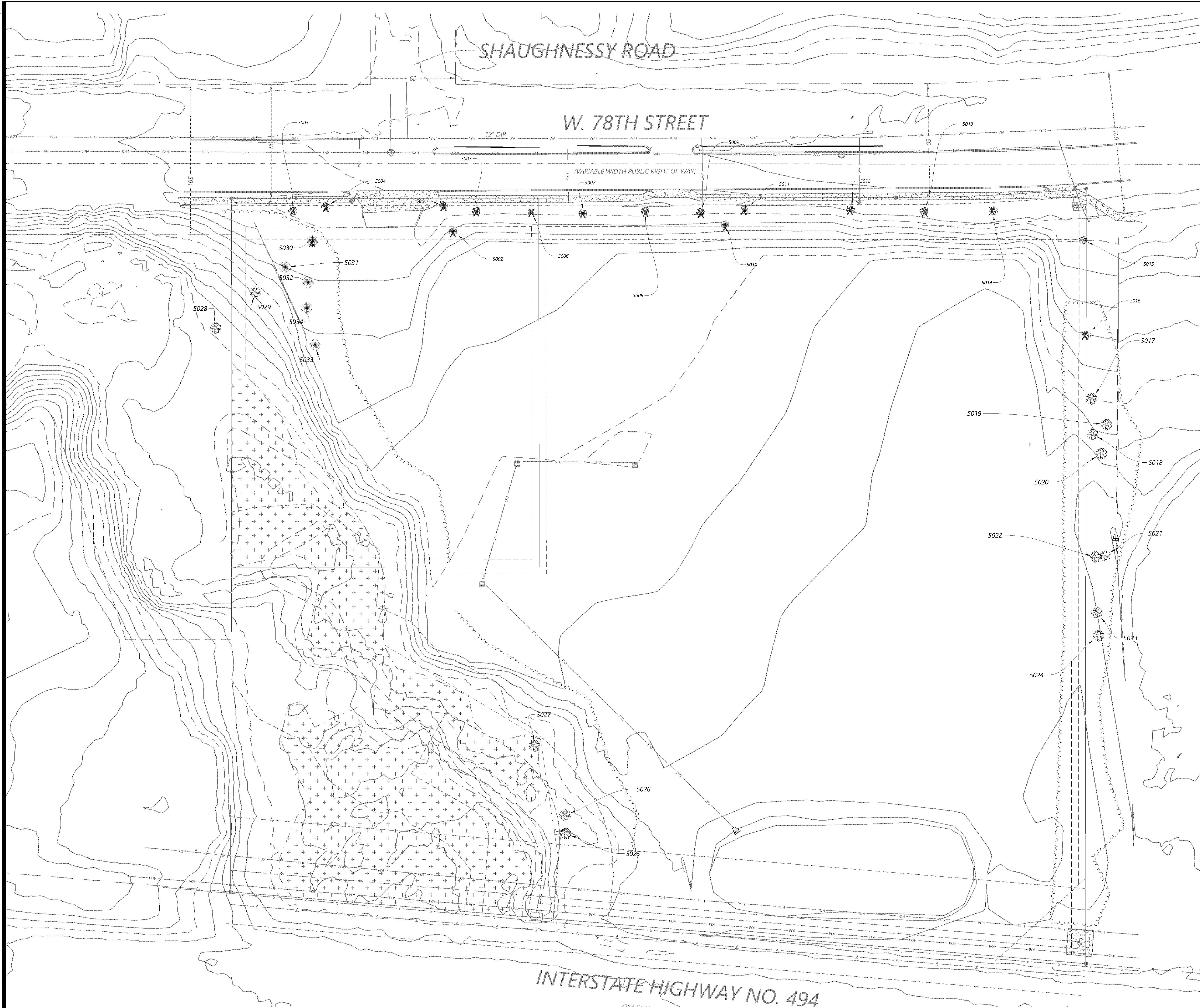
SHEET NUMBER:

C100

DATE: 06/11/2024

PROJECT NUMBER: 0043990.00

ENCLAVE BLOOMINGTON 78TH STREET

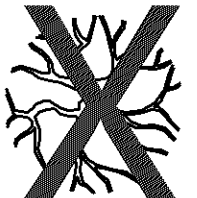


CONSTRUCTION DOCUMENTS

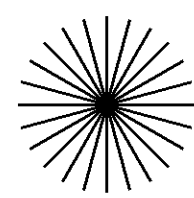
LANDSCAPE LEGEND



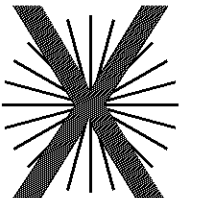
EXISTING DECIDUOUS TREE



DECIDUOUS TREE FOR REMOVAL



EXISTING CONIFEROUS TREE



CONIFEROUS TREE FOR REMOVAL

PRESERVATION SUMMARY

MITIGATION/REFORESTATION NOT REQUIRED

PER CITY OF BLOOMINGTON TREE PRESERVATION CODE (21.301.14): The regulations contained in this section apply to all proposed single- and two-family residential lots for which a plat application was received after August 31, 2006, with the exception of plats that create only lot line adjustments and do not alter the number of lots. The regulations continue to apply for a period of two years after the date the plat was recorded with the county.

TREE INVENTORY

Tree ID	Species	DBH (in)	Significant	Removal
5001	Norway Spruce	18	X	X
5002	Norway Spruce	17	X	X
5003	Sugar Maple	18	X	X
5004	Green Ash	14	X	X
5005	Green Ash	34	X	X
5006	Norway Spruce	18	X	X
5007	Norway Spruce	11	X	X
5008	Sugar Maple	25	X	X
5009	Norway Maple	18	X	X
5010	Norway Spruce	17	X	X
5011	Norway Spruce	13	X	X
5012	Green Ash	26	X	X
5013	Green Ash	24	X	X
5014	Green Ash	18	X	X
5015	Hackberry	9		
5016	Bur Oak	23	X	X
5017	Bur Oak	22	X	
5018	Cottonwood	38	X	
5019	Cottonwood	42,18		
5020	Cottonwood	62,32		
5021	Cottonwood	24	X	
5022	Cottonwood	51	X	
5023	Green Ash	13	X	
5024	Cottonwood	15	X	
5025	American Elm	12	X	
5026	American Elm	18	X	
5027	American Elm	14	X	
5028	Bur Oak	11	X	
5029	Bur Oak	21	X	
5030	Red Pine	12	X	X
5031	Red Pine	19	X	
5032	Red Pine	12	X	
5033	Red Pine	14	X	
5034	Red Pine	12	X	

PL202300193
PL2023-193

DESIGNED	SSA
CHECKED	SSA
DRAWN	AWL
DATE	06/11/2024
PROJECT	ENCLAVE DEVELOPMENT
SHEET	6 OF 3

INITIAL ISSUE	11/14/2023
REVISIONS	
1	12/14/2023 CITY & WATERSHED COMMENTS
2	12/29/2023 ISSUED FOR PERMIT
3	01/10/2024 CITY RESUBMITTAL
4	04/12/2024 ISSUED FOR BUILDING PERMIT
5	06/11/2024 ADDENDUM 1

PREPARED FOR:
ENCLAVE DEVELOPMENT
300 23RD AVE. E. SUITE 300
FARGO, ND 58078

FOR THE CITY OF BLOOMINGTON, MINNESOTA
BY: JEFFERY R. WESTENDORF
DATE: 06/11/2024, LICENSE NO. 44018

ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

Westwood
Professional Services, Inc.
1525 Westwood Drive, Suite 400
Bloomington, MN 55403
Phone: (612) 933-5422
Fax: (612) 933-5420
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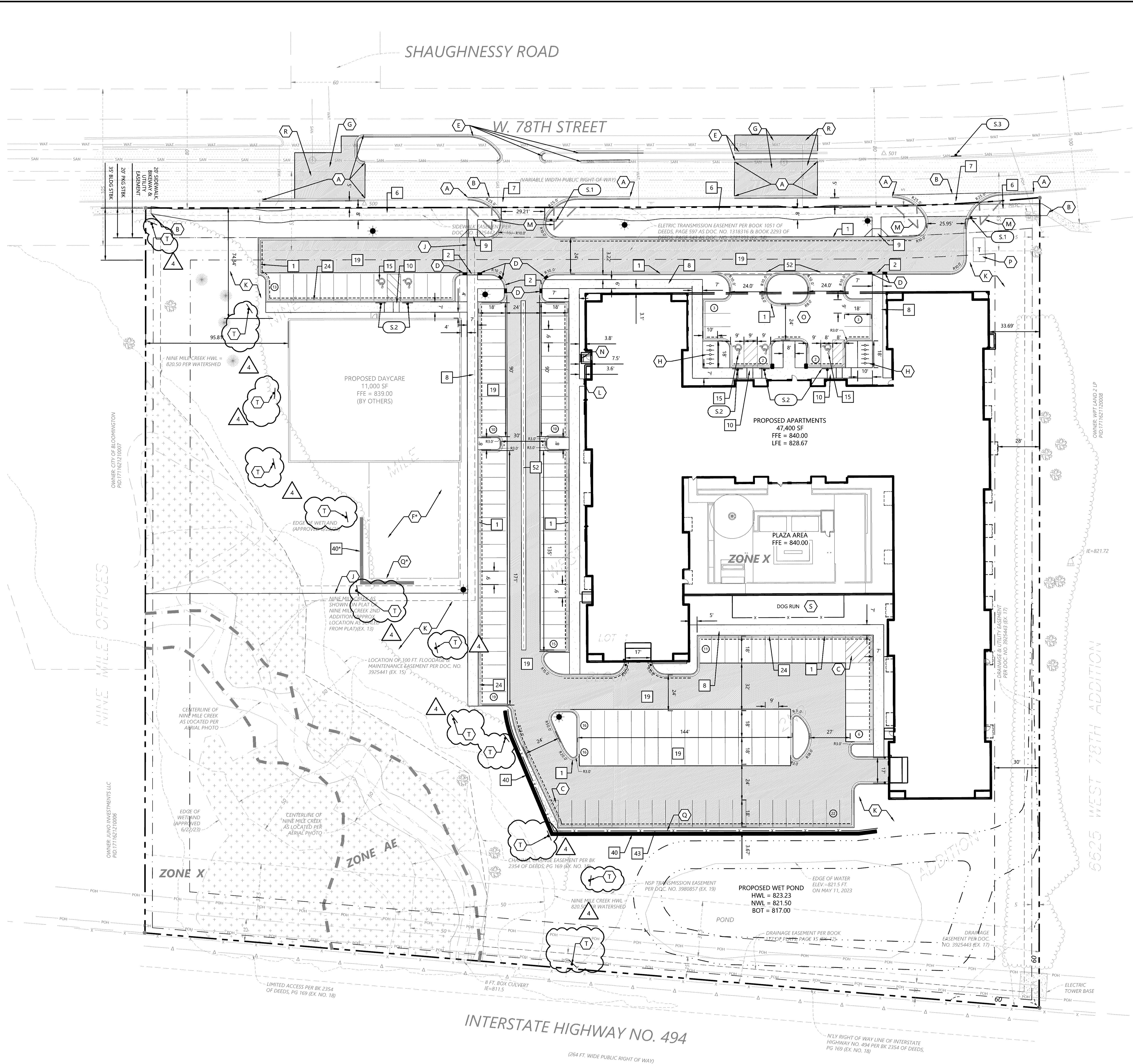
TREE INVENTORY PLAN

SHEET NUMBER:
C101

DATE: 06/11/2024

PROJECT NUMBER: 0043990.00

ENCLAVE BLOOMINGTON 78TH STREET

**1 SITE DETAILS (SI-0XX)**

- 1 B612 CURB AND GUTTER
- 2 FLUSH CURB AND GUTTER
- 6 PUBLIC SIDEWALK (CITY PLATE 120)
- 7 COMMERCIAL DRIVEWAY (CITY PLATE 100)
- 8 PRIVATE CONCRETE SIDEWALK
- 9 PRIVATE PEDESTRIAN CURB RAMP
- 10 PRIVATE PARALLEL PEDESTRIAN CURB RAMP
- 15 HANDICAP ACCESSIBLE SIGNAGE AND STRIPING
- 19 PAVEMENT SECTIONS
- 24 CONCRETE CURB AT SIDEWALK
- 40 MODULAR BLOCK RETAINING WALL
- 42 RETAINING WALL W/ FENCE USING SLEEVE-IT SYSTEM
- 52 CONCRETE VALLEY GUTTER

2 SITE KEYNOTES

- A MATCH EXISTING CURB (78TH AVENUE CURB TO BE MNDOT B618)
- B MATCH EXISTING PAVEMENT WITH SAWCUT
- C PAINT 4" WHITE DIAGONAL STRIPING
- D TRANSITION CURB (SEE GRADING PLAN)
- E COORDINATE MEDIAN RECONSTRUCTION WITH CITY OF BLOOMINGTON
- F PLAYGROUND AREA (BY OTHERS)
- G RECONSTRUCT CITY STREET & MEDIAN AFTER UTILITY CONNECTIONS PER CITY STANDARDS
- H BIKE RACKS (SEE ARCH. FOR DETAIL)
- J PROPOSED LOT LINE
- K SNOW STORAGE AREA
- L FIRE DEPT. CONNECTION
- M 15' CLEAR VIEW TRIANGLE
- N (2)-6" RISERS
- O 6" THICK STEEL-REINFORCED CONCRETE DRIVE OVER GARAGE (SEE STRUCTURAL DETAIL)
- P 8" X 16" TRANSFORMER PAD (BY OTHERS)
- Q BLACK VINYL-COATED CHAIN LINK FENCE (OR APPROVED EQUAL)
- R MATCH EX. PAVEMENT SECTION
- S DOG RUN (SEE ARCH. FOR FENCE DETAIL)
- 4 IRRIGATION CONTRACTOR TO PROVIDE SERVICE TO AREA FOR WASHING
- WETLAND BUFFER SIGN - PURCHASE FROM NMCWD
- INDICATES WORK TO BE DONE BY OTHERS

3 SIGN LEGEND

REFERENCE	SIZE	MNDOT DESIGNATION
S.1 STOP SIGN	30" X 30"	R1-1
S.2 HANDICAP ACCESSIBLE	12" X 18"	R7-8M
S.3 ONE WAY	36" X 12"	R6-2R

SITE LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE
		LOT LINE
		SETBACK LINE
		EASEMENT LINE
		CURB AND GUTTER
		TIP-OUT CURB AND GUTTER
		POND NORMAL WATER LEVEL
		RETAINING WALL
		FENCE
		CONCRETE PAVEMENT
		CONCRETE SIDEWALK
		HEAVY DUTY BITUMINOUS PAVEMENT
		NORMAL DUTY BITUMINOUS PAVEMENT
		NUMBER OF PARKING STALLS
		TRANSFORMER
		SITE LIGHTING
		TRAFFIC SIGN
		POWER POLE

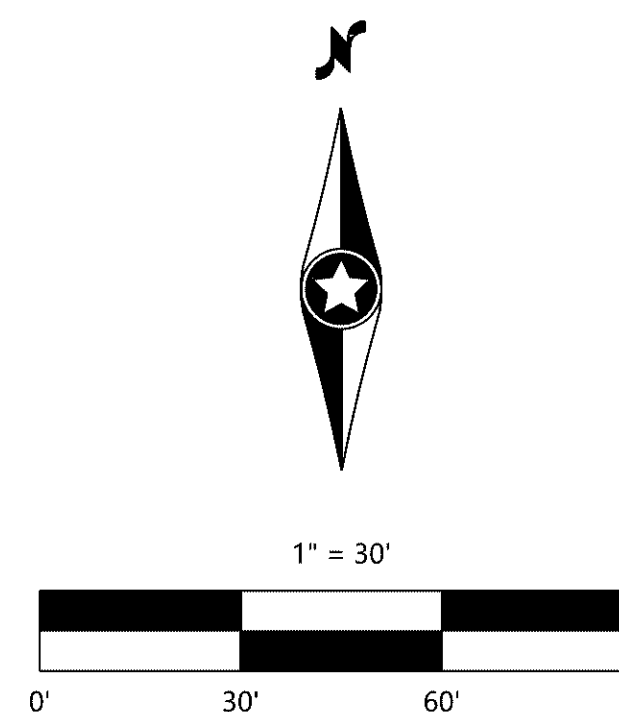
GENERAL SITE NOTES

- BACKGROUND INFORMATION FOR THIS PROJECT PROVIDED BY WESTWOOD PROFESSIONAL SERVICES, MINNETONKA, MN, 5/11/2023.
- 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.
- REFER TO BOUNDARY SURVEY FOR LOT BEARINGS, DIMENSIONS AND AREAS.
- ALL DIMENSIONS ARE TO FACE OF CURB OR EXTERIOR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF EXITS, RAMPS, AND TRUCK DOCKS.
- ALL CURB RADII ARE SHALL BE 5.0 FEET (TO FACE OF CURB) UNLESS OTHERWISE NOTED.
- ALL CURB AND GUTTER SHALL BE B612 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC 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.
- BITUMINOUS PAVEMENT AND CONCRETE SECTIONS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION AND TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES.
- SITE LIGHTINGS SHOWN ON PLAN IS FOR REFERENCE ONLY. REFER TO LIGHTING PLAN PREPARED BY OTHERS FOR SITE LIGHTING DETAILS AND PHOTOMETRICS.
- ALL CONSTRUCTION AND POST-CONSTRUCTION PARKING AND STORAGE OF EQUIPMENT AND MATERIALS MUST BE ON-SITE. USE OF PUBLIC STREETS FOR PRIVATE CONSTRUCTION PARKING, LOADING/UNLOADING, AND STORAGE WILL NOT BE ALLOWED. ADD NOTE TO SITE PLAN AND OTHER PLAN SHEETS.

SITE DEVELOPMENT SUMMARY

• ZONING:	C-4, FREEWAY OFFICE (PLANNED DEV.)
• PARCEL DESCRIPTION:	LOT 1, BLOCK 1, NINE MILE WEST 2ND ADDITION
• PROPERTY AREA:	308,232 SF (7.076 AC)
• EXISTING IMPERVIOUS SURFACE:	322 AC (45.5%)
• PROPOSED IMPERVIOUS SURFACE:	3.46 AC (48.9%)
• BUILDING GROSS SIZE:	58,400 SF
• MULTI-FAMILY:	47,400 SF
• DAYCARE:	11,000 SF
• BUILDING SETBACK PER CODE:	35'-FRONT 30'-SIDE 30'-REAR
• PARKING SETBACK:	20'-FRONT AND ROW 5'-SIDE AND REAR
• PARKING SPACE/DRIVE AISLE:	9' WIDE X 18' LONG, 24' AISLE
• PARKING RATIO REQUIREMENT	CITY OF BLOOMINGTON
• VEHICLE PARKING	18R OR EFFICIENCY - 1.6 STALLS PER UNIT
• APARTMENT REQUIRED:	28R AND GREATER - 2 STALLS PER UNIT
	25+78 X 1.6 = 165 STALLS
	98 X 2.0 = 196 STALLS
	361 STALLS
TOTAL APARTMENT REQUIRED:	
OPPORTUNITY HOUSING ORDINANCE REDUCTION	
10% (9% AFFORDABLE):	36 STALLS
TOTAL REQUIRED WITH OHO:	325 STALLS
ESTIMATED DAYCARE REQUIRED:	1 STALL PER CAREGIVER, 1.2 STALLS PER 10 STUDENTS
TOTAL DAYCARE REQUIRED:	30*1 + 150*1.2/10 = 30 + 18
TOTAL REQUIRED PARKING ON SITE:	48 STALLS
PROPOSED:	325 + 48 = 373 STALLS
OPPORTUNITY HOUSING ORDINANCE CONVERSION	
10% ENCLOSED ALLOWED TO BE CONVERTED TO EXTERIOR PARKING	358 STALLS (210 ENCLOSED, 148 SURFACE)

ENGINEERING DIVISION
Approved By: Julie Long, PE
08/20/2024 5:15:00 PM



CONSTRUCTION DOCUMENTS

DESIGNED:	SSA	11/14/2023
CHECKED:	SSA	
DRAWN:	AWW	07/23/2024 ADD. 3
ISSUED FOR PERMIT:	AWW	08/16/2024 ADD. 4
CITY RESUBMITTAL:	AWW	08/16/2024 ADD. 4
ISSUED FOR BUILDING PERMIT:	AWW	08/16/2024 ADD. 4
VERTICAL SCALE:	8" = 1'	

PREPARED FOR:	ENCLAVE DEVELOPMENT
300 23RD AVE. E. SUITE 300	
FARGO, ND 58108	
DATE: 08/16/2024	REVISION NO. 42797

ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

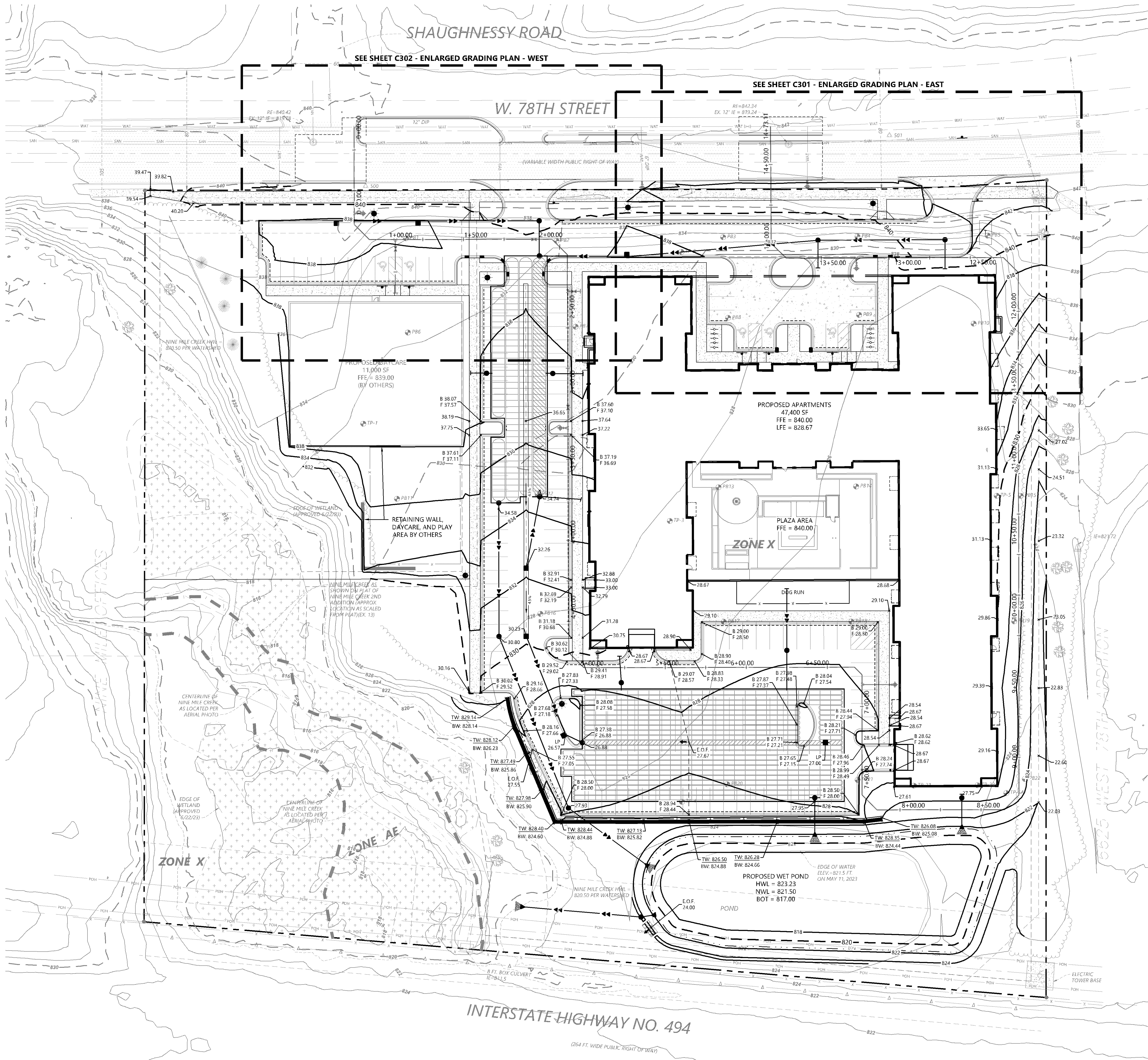
Westwood
Professional Services, Inc.
10250 Westwood Drive, Suite 200
Fargo, ND 58108
Phone: (701) 785-5400
Fax: (701) 785-5400
www.westwoodps.com

SITE PLAN

SHEET NUMBER:
C200

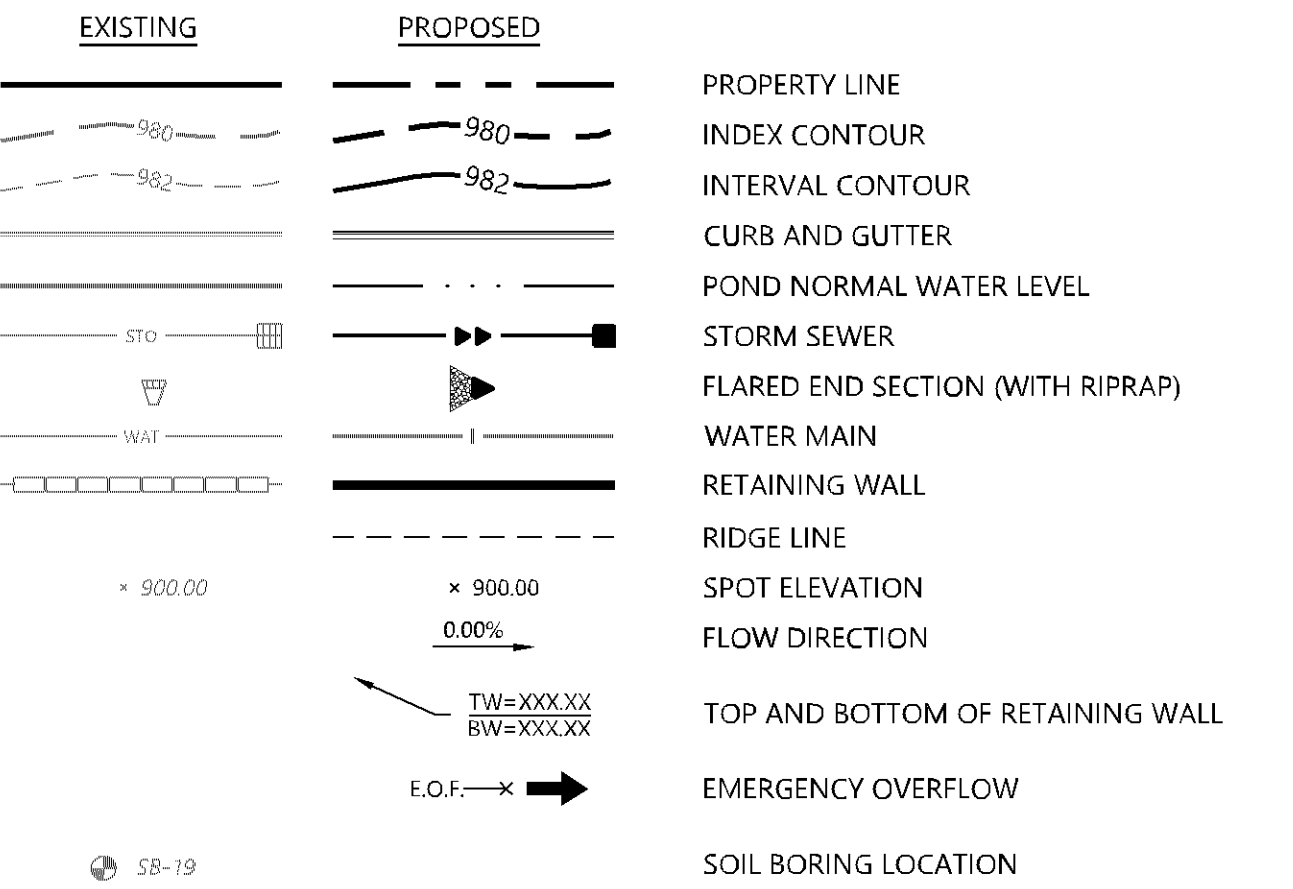
DATE: 08/16/2024
PROJECT NUMBER: 0043990.00

ENCLAVE BLOOMINGTON 78TH STREET



PL202300193
PL2023-193

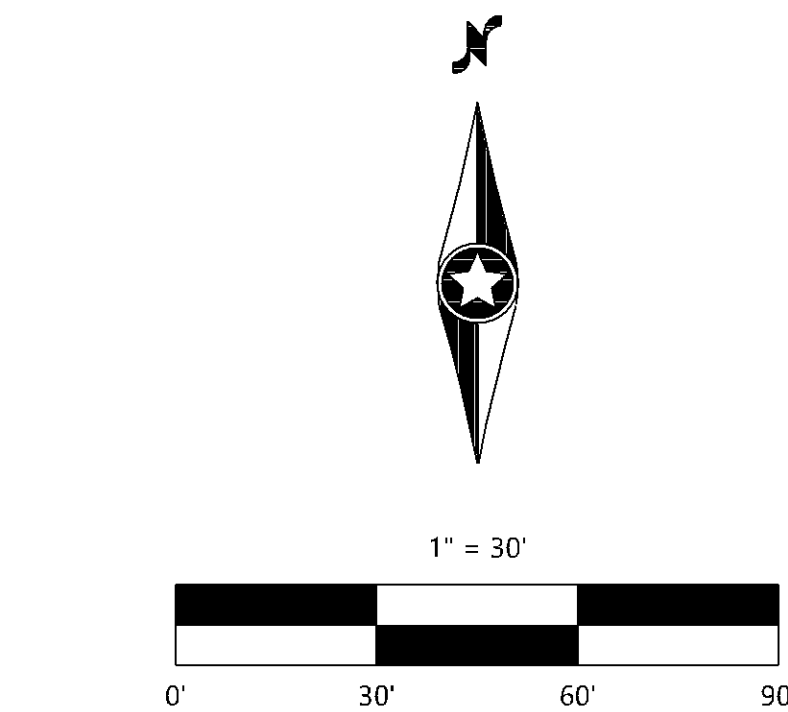
GRADING LEGEND



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 IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
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 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.
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 SHEET.
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.
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 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 EQUIVALENT, 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, 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.

ENGINEERING DIVISION
Approved By: Julie Long, PE
08/20/2024 5:15:10 PM



DESIGNED	SSA
CHECKED	SSA
DRAWN	AWL
DATE	07/09/2024
PROJECT	ENCLAVE DEVELOPMENT
SCALE	6" = 1'
REVISION	
DATE	06/11/2024
BY	AWL
DESCRIPTION	ADDENDUM 1

PREPARED FOR:
ENCLAVE DEVELOPMENT
300 23RD AVE. E. SUITE 300
FARGO, ND 58108

DATE: 06/11/2024
LENSE NO.: 42797
DRAWN BY: J. LONG
CHECKED BY: J. LONG
DESIGNED BY: J. LONG

ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

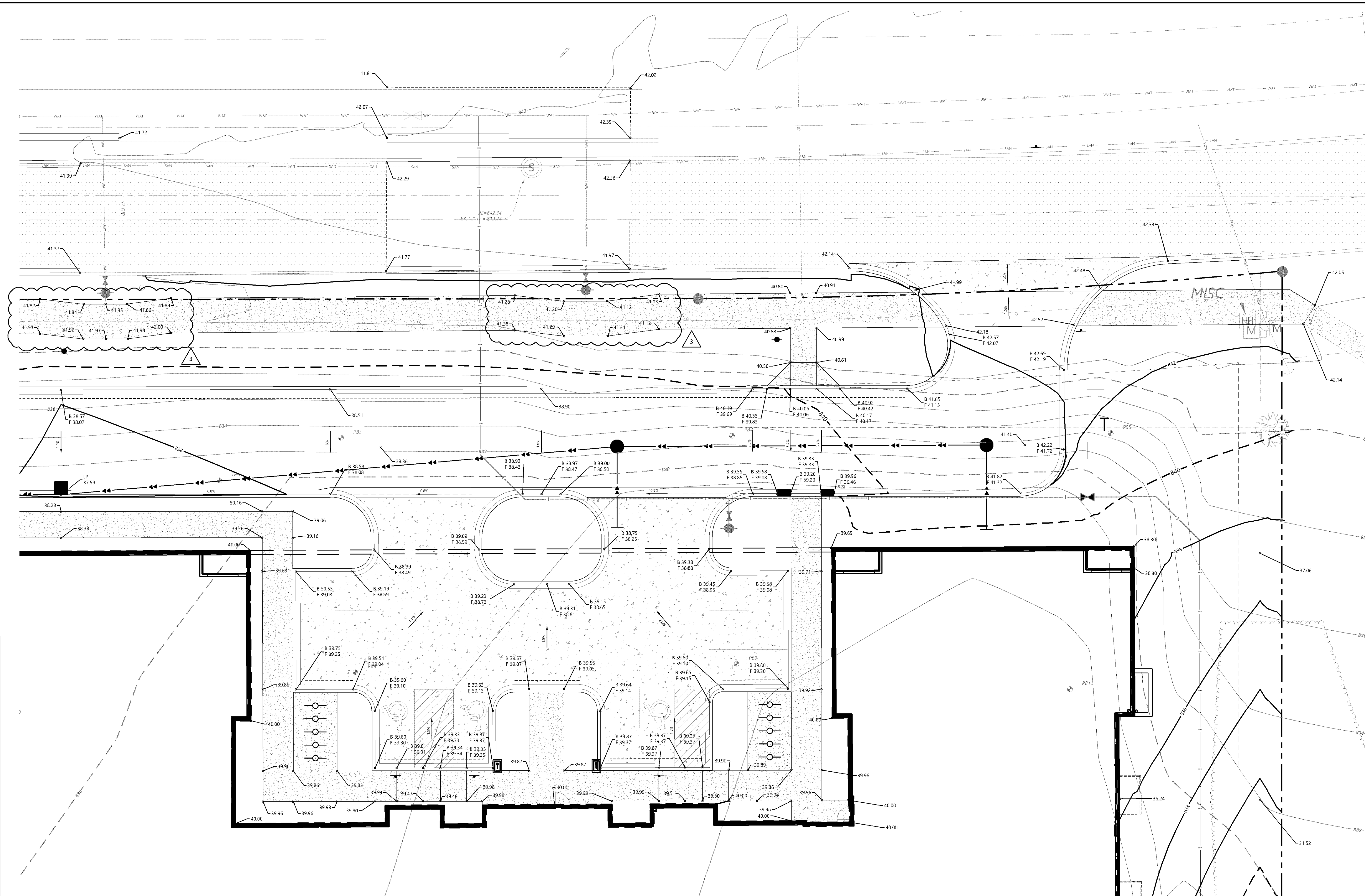
Westwood
Professional Services, Inc.
12575 Westwood Drive, Suite 100
Fargo, ND 58108
Phone: (701) 785-1234
Fax: (701) 785-1235
www.westwoodps.com

GRADING PLAN

SHEET NUMBER:
C300

DATE: 06/11/2024
PROJECT NUMBER: 0043990.00

ENCLAVE BLOOMINGTON 78TH STREET

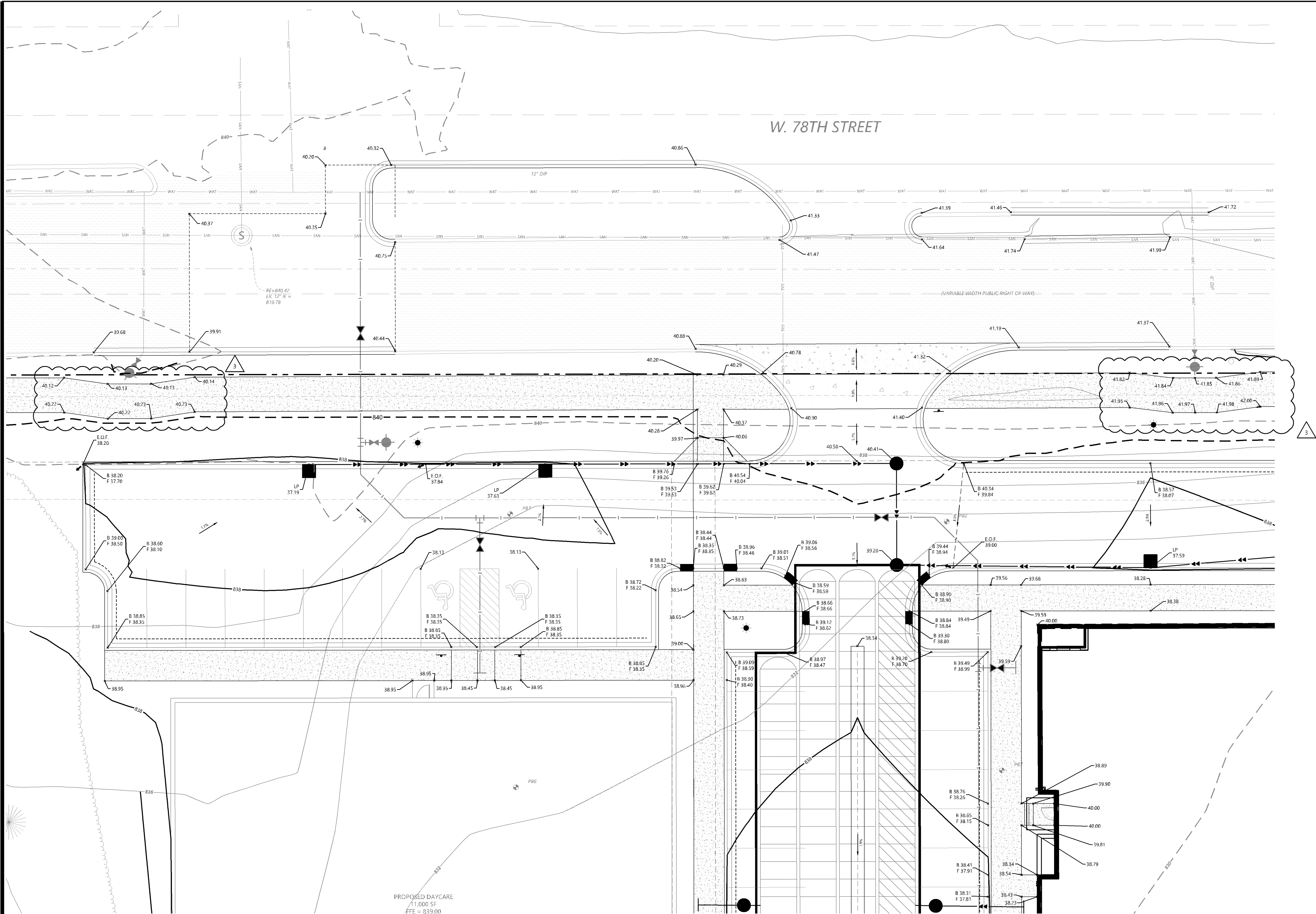


CONSTRUCTION DOCUMENTS

ITEM NUMBER: C301

DATE: 07/23/2024

NUMBER: 0043990.00



GRADING LEGEND

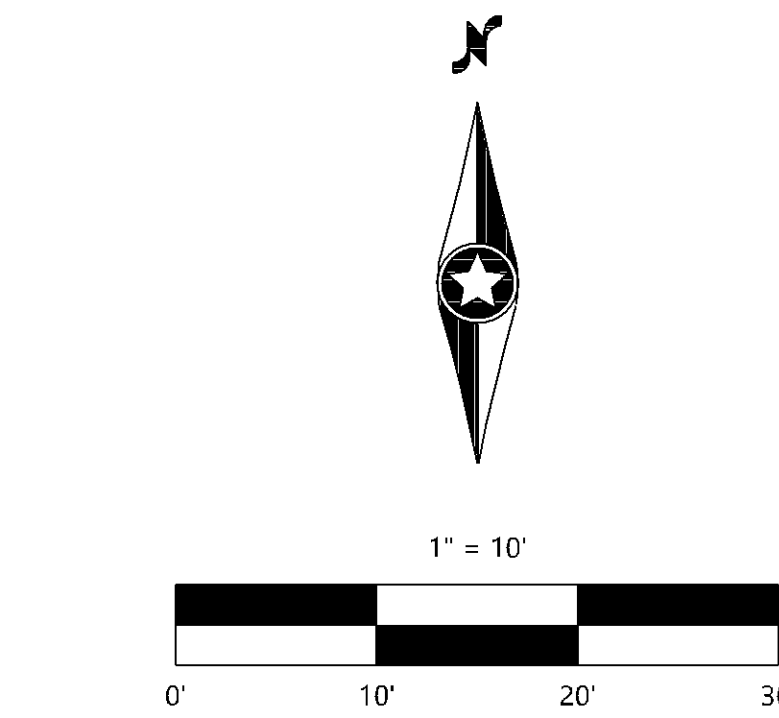
EXISTING	PROPOSED	
		PROPERTY LINE
		INDEX CONTOUR
		INTERVAL CONTOUR
		CURB AND GUTTER
		POND NORMAL WATER LEVEL
		STORM SEWER
		FLARED END SECTION (WITH RIPRAP)
		WATER MAIN
		RETAINING WALL
		EDGE LINE
		SPOT ELEVATION
		FLOW DIRECTION
		TOP AND BOTTOM OF RETAINING WALL
		EMERGENCY OVERFLOW
		SOIL BORING LOCATION

GRADING NOTES

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- ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE INDICATED ON THIS SHEET.
- 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.
- SPOT ELEVATIONS SHOWN INDICATE FINISHED PAVEMENT ELEVATIONS & GUTTER FLOW LINE UNLESS OTHERWISE NOTED. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE.
- SEE SOILS REPORT FOR PAVEMENT THICKNESSES AND HOLD DOWNS.
- 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 AGENCIES.
- CONTRACTOR SHALL PROVIDE A STRUCTURAL RETAINING WALL DESIGN CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE AND FEDERAL RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- 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.
- 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.
- 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.
- 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.

PL202300193
PL2023-193

ENGINEERING DIVISION
Approved By: Julie Long, PE
08/20/2024 5:15:32 PM



DESIGNED	SSA	11/14/2023
CHECKED	SSA	
DRAWN	AWL	
ISSUED FOR PERMIT	AWL	07/23/2024 AND 3
CITY RESUBMITTAL	AWL	07/23/2024
ISSUED FOR BUILDING PERMIT	AWL	08/11/2024 AND 1
VERTICAL SCALE	2" = 1'	

PREPARED FOR:
ENCLAVE DEVELOPMENT
300 23RD AVE. E. SUITE 300
FARGO, ND 58103

DESIGNED BY: JULIE LONG, PE
CHECKED BY: JULIE LONG, PE
DRAWN BY: JULIE LONG, PE
DATE: 07/23/2024
PROJECT NO: 42797

ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

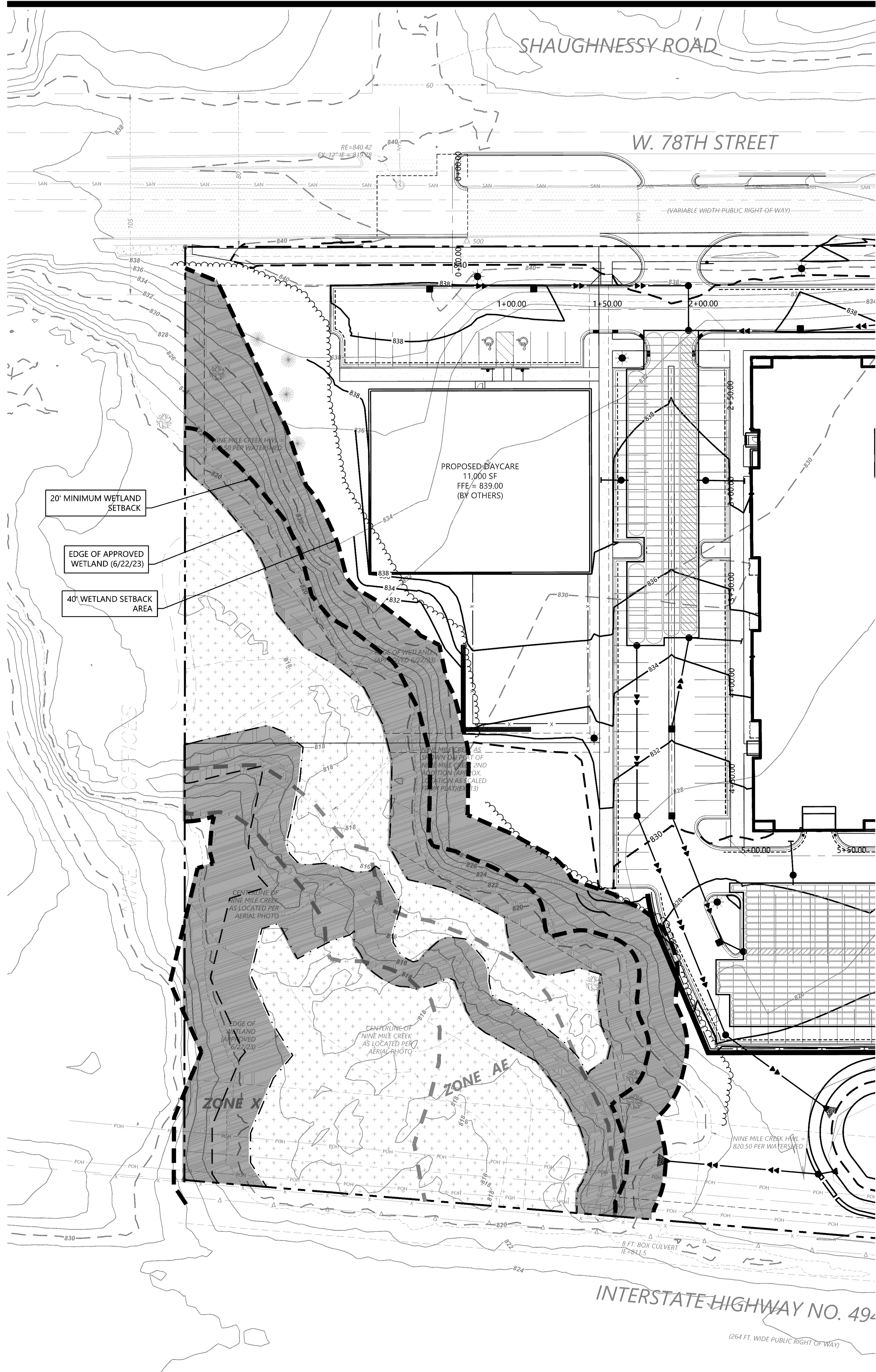
Westwood
Professional Services, Inc.
15251 White Bear Avenue, Suite 200
Plymouth, MN 55442
Phone: (612) 937-5422
Fax: (612) 937-5422
www.westwoodps.com

**ENLARGED GRADING
PLAN - WEST**

SHEET NUMBER:
C302

DATE: 07/23/2024
PROJECT NUMBER: 0043990.00

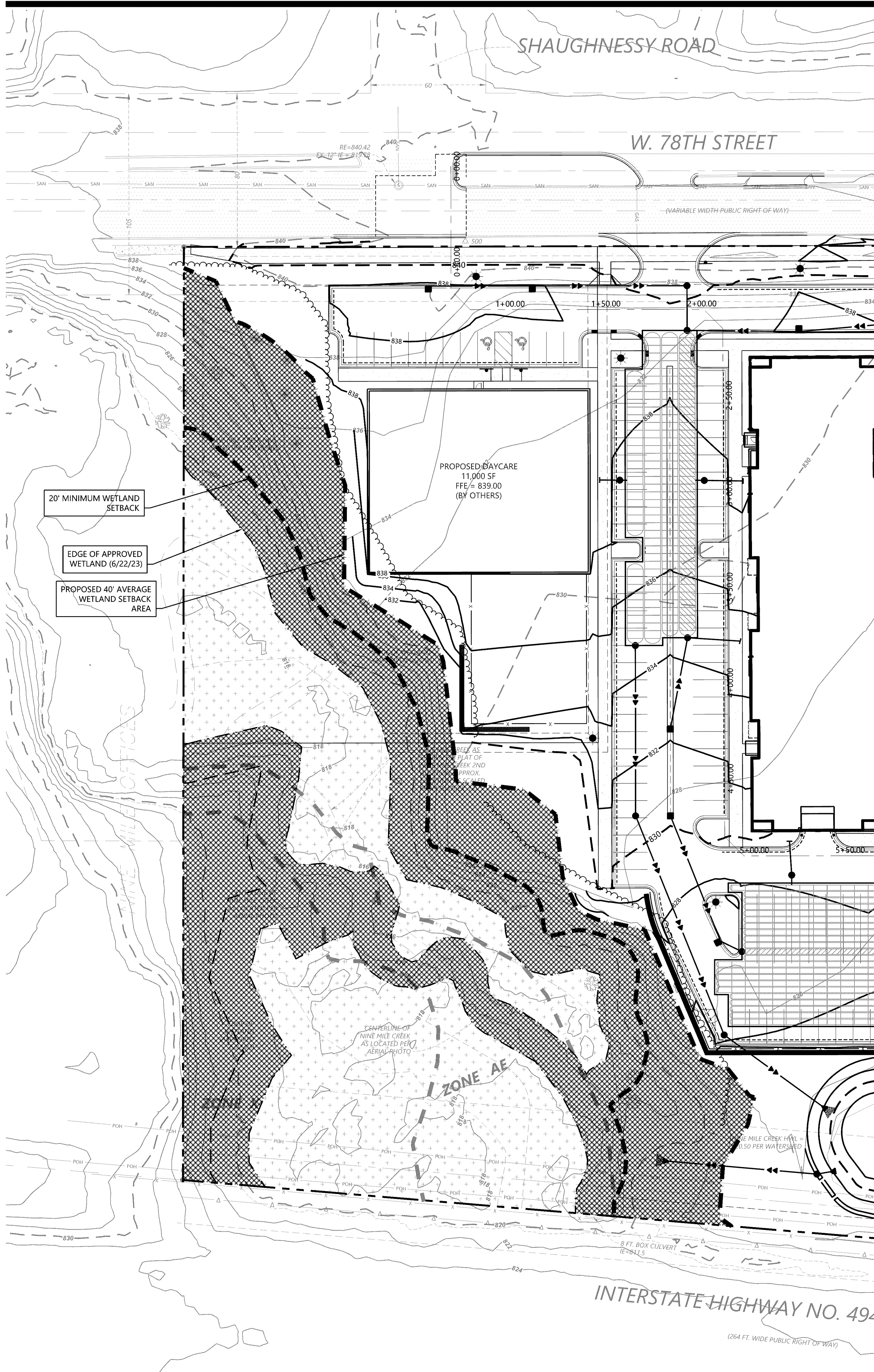
REQUIRED 40' SETBACK



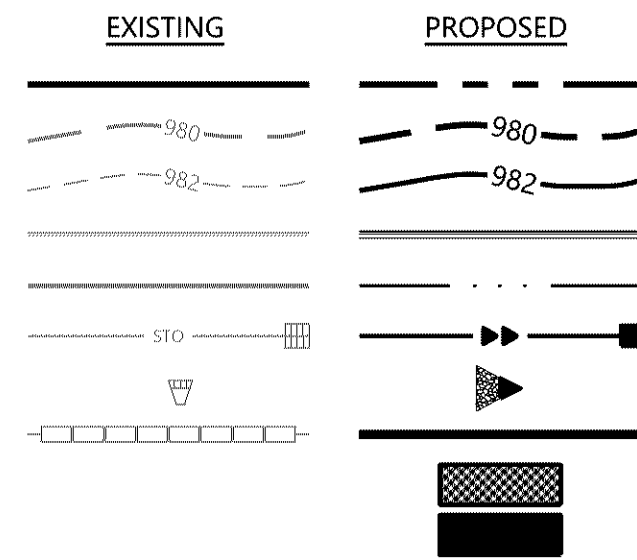
WETLAND BUFFER TABLE

WETLAND	REQUIRED 40' BUFFER AREA	PROPOSED 40' AVERAGE BUFFER AREA
NINE MILE CREEK	40,100 SF	45,860

PROPOSED 40' AVERAGE SETBACK



GRADING LEGEND



- PROPERTY LINE
- INDEX CONTOUR
- INTERVAL CONTOUR
- CURB AND GUTTER
- POND NORMAL WATER LEVEL
- STORM SEWER
- FLARED END SECTION (WITH RIPRAP)
- RETAINING WALL
- PROVIDED AVERAGE WETLAND BUFFER
- 40' WETLAND BUFFER

PL202300193
PL2023-193

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

DESIGNED	SSA
CHECKED	SSA
DRAWN	AWM
ISSUED FOR PERMIT	AWM
CITY RESUBMITTAL	AWM
ISSUED FOR BUILDING PERMIT	AWM
ADDITIONAL	AWM

PREPARED FOR:
ENCLAVE DEVELOPMENT
300 23RD AVE. E. SUITE 300
FARGO, ND 58078

DESIGNER'S CERTIFICATE OF PROFESSIONAL RESPONSIBILITY
I, the undersigned, being a duly licensed Professional Engineer under the laws of the State of Minnesota, do hereby certify that this drawing 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.
SHARON L. JENSEN, P.E.
DATE: 06/11/2024, LICENSE NO. 42797

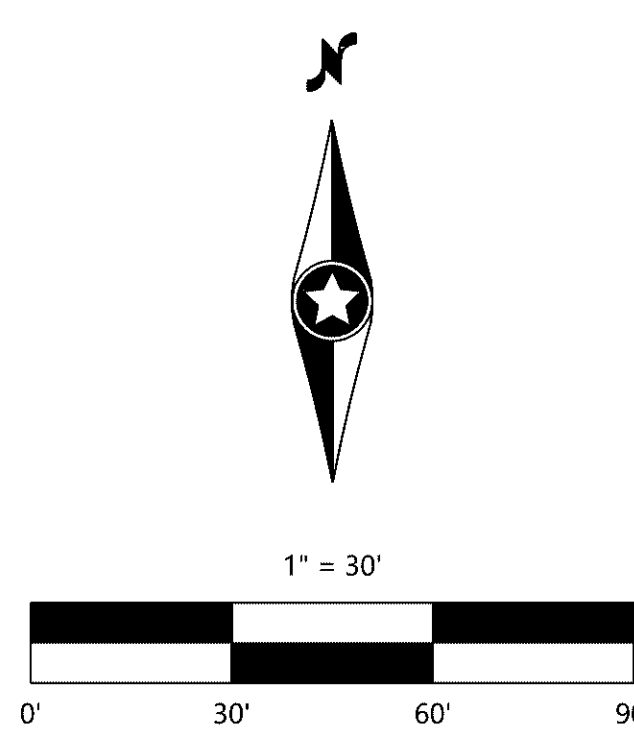
ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

Westwood
Professional Services, Inc.
1000 Westwood Drive, Suite 1000
Bloomington, MN 55403
Phone: (612) 913-5400
Fax: (612) 913-5400
Website: westwoodps.com

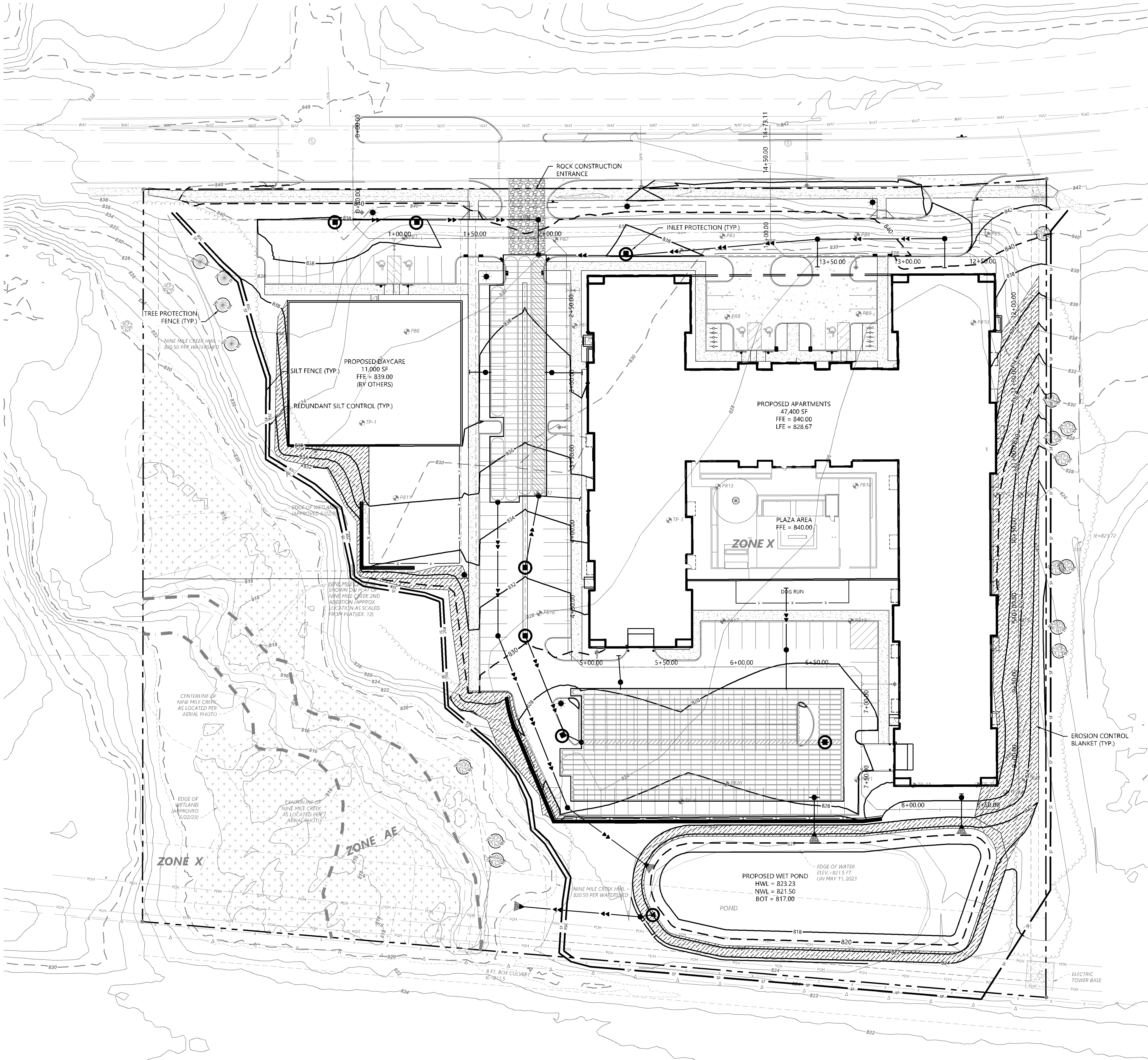
WETLAND BUFFER PLAN

SHEET NUMBER:
C303
DATE: 06/11/2024
PROJECT NUMBER: 0043990.00

ENGINEERING DIVISION
Approved By: Julie Long, PE
06/20/2024 5:15:47 PM



CONSTRUCTION DOCUMENTS



GENERAL EROSION CONTROL MAINTENANCE NOTES

THE OWNER/CONTRACTOR IS RESPONSIBLE FOR THE OPERATION, MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMPs AS WELL AS ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs. FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE THE CONTRACTOR MUST INSPECT ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPs AND POLLUTION PREVENTION MANAGEMENT MEASURES TO ENSURE INTEGRITY AND EFFECTIVENESS DURING ALL ROUTINE AND POST RAINFALL EVENTS. ALL NONFUNCTIONAL BMPs MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPs BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS UNLESS ANOTHER TIME FRAME IS SPECIFIED BELOW.

THE FOLLOWING GUIDELINES WILL BE USED TO DETERMINE IF THE EROSION AND SEDIMENT CONTROL DEVICES REQUIRE MAINTENANCE, REPAIR, OR REPLACEMENT:

- ALL NON-FUNCTIONAL BMPs - OBSERVED CONDITION: SEDIMENT OVERTOPPING, UNDER WATER, SCOURED ENDS, UNDERMINED, DESTROYED, NON-FUNCTION AS DESIGNED, ETC. - SHALL BE MAINTAINED OR REPLACED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR NOTIFICATION, OR AS SOON AS FIELD CONDITIONS ALLOW.
- PERIMETER SEDIMENT CONTROL (SILT FENCE, FIBER LOGS, BERMS, ETC.) - OBSERVED CONDITION TO BE 1/2 FULL OF SEDIMENT, FLATTENED TO 1/2 HEIGHT, DRIVEN OVER, UNDERMINED, SCOURED, MOVED FOR ACCESS, ETC. - SHALL BE MAINTAINED, REPAIRED OR SUPPLEMENTATION OF PERIMETER SEDIMENT CONTROL SHOULD BE DONE BY THE END OF NEXT BUSINESS DAY OR AD FIELD CONDITIONS ALLOW.
- INLET PROTECTION BMPs, CONVEYANCES, SURFACE WATERS - OBSERVED CONDITION: SEDIMENT DEPOSITION, SEDIMENT DELTAS AN ACCUMULATION OF SEDIMENT MATERIAL, DEVICES APPEAR PLUGGED WITH SEDIMENT - REMOVAL/CLEAN OUT OF ACCUMULATED SEDIMENT AND DELTAS TO BE REMOVED WITHIN 7 DAYS, STABILIZE AS NEEDED IF SOILS ARE EXPOSED DURING REMOVAL/CLEAN OUT.
- TEMPORARY SEDIMENT BASINS AND TRAPS/PERMANENT SEDIMENT BASINS - OBSERVED TO HAVE SEDIMENT DEPOSITION AND ACCUMULATION TO 1/2 OF THE STORAGE VOLUME - CLEAN OUT, REMOVE ACCUMULATED SEDIMENT MATERIAL WITHIN 7 DAYS OF OBSERVATION, OR AS FIELD CONDITIONS ALLOW ACCESS.
- SITE EXIT LOCATIONS, ROCK EXIT PADS, OTHER ANTI-TRACKING PRACTICES - OBSERVED TO HAVE ACCUMULATED SEDIMENT IN ROCK OR OTHER ANTI-TRACKING BMP. TRACKING OF SEDIMENT FROM THE SITE ONTO PAVED SURFACES - TOP DRESS ROCK, MAINTAIN ROCK EXIT OR OTHER ANTI-TRACKING CONTROLS, SCRAP PAVED SURFACES, SWEEP PAVED SURFACES WITHIN 1 CALENDAR DAY OF DISCOVERY.
- PAVED SURFACES AND ADJACENT STREETS - OBSERVED TO BE TRACKED WITH SEDIMENT AND SOIL MATERIAL FROM THE SITE HAULING OR ACCESS - SWEEP WITHIN 1 CALENDAR DAY OF DISCOVERY, ADDITIONAL AND/OR MORE FREQUENT SWEEPING MAY BE NEEDED TO MAINTAIN PUBLIC SAFETY OR PREVENT WASHING FROM FORECASTED RAINS.

EROSION CONTROL LEGEND

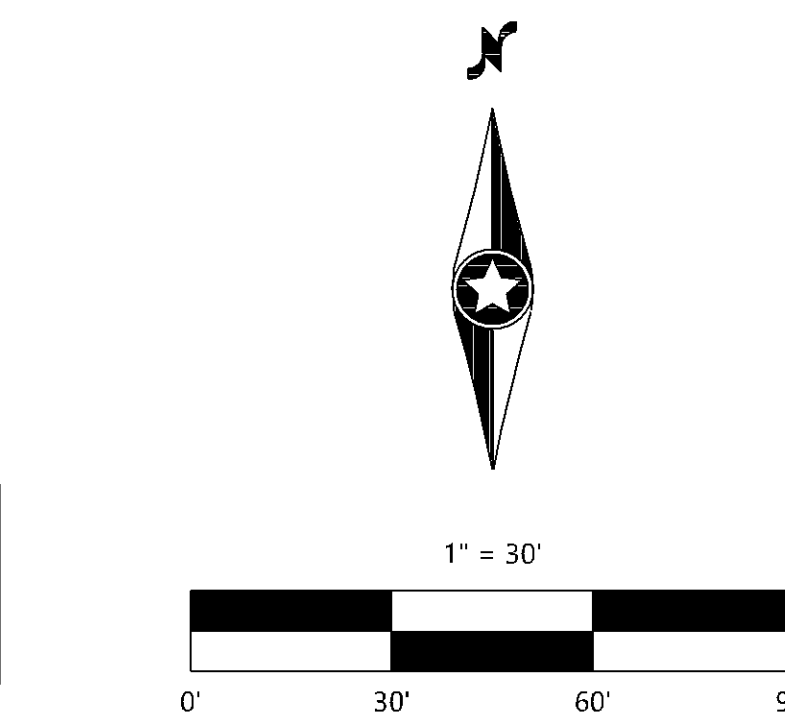
EXISTING	PROPOSED	
		PROPERTY LINE
		INDEX CONTOUR
		INTERVAL CONTOUR
		CURB AND GUTTER
		POND NORMAL WATER LEVEL
		SILT FENCE
		REDUNDANT SILT CONTROL
		STORM SEWER
		FLARED END SECTION (WITH RIPRAP)
		WATER MAIN
		RETAINING WALL
		ROCK CONSTRUCTION ENTRANCE
		EROSION CONTROL BLANKET
		SOIL BORING LOCATION
		INLET PROTECTION
		TREE PROTECTION FENCE

PL202300193
PL2023-193

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.
- ALL SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL 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.
- 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 STREETS.
- PROPOSED PONDS SHALL BE EXCAVATED FIRST AND USED AS TEMPORARY PONDING DURING CONSTRUCTION.
- WHEN INSTALLING END-OF-LINE FLARED END SECTIONS, BRING THE SILT FENCE UP & OVER THE FLARED END SECTIONS & COVER DISTURBED AREAS WITH RIP RAP. THE UPSTREAM FLARED END SECTIONS SHALL HAVE WOOD FIBER BLANKET INSTALLED ON THE DISTURBED SOILS.
- 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.
- THE SITE MUST BE STABILIZED PER THE REQUIREMENTS OF THE MPCA, NPDES, MNDOT, AND CITY.
 - TEMPORARY (GREATER THAN 1-YEAR) SEED SHALL BE MNDOT SEED MIX 22-111 AT 30.5-POUNDS PER ACRE.
 - TEMPORARY (LESS THAN 1-YEAR) SEED SHALL BE MNDOT SEED MIX 21-112 (FALL) OR 21-111 (SPRING/SUMMER) AT 100-POUNDS PER ACRE.
 - INFILTRATION/FILTRATION BASIN SHALL BE MNDOT SEED MIX 34-262 AT 14.5-POUNDS PER ACRE.
 - POND SLOPES SHALL BE MNDOT SEED MIX 34-261 AT 35-POUNDS PER ACRE.
 - GENERAL SEEDING SHALL BE MNDOT SEED MIX 25-151 AT 70-POUNDS PER ACRE.
 - MULCH SHALL BE MNDOT TYPE 1 APPLIED AT 2-TONS PER ACRE.
- FOR AREAS WITH SLOPE OF 3:1 OR GREATER, RESTORATION WITH SOD OR EROSION CONTROL BLANKET IS REQUIRED.
- ALL TEMPORARY STOCKPILES MUST HAVE SILT FENCE INSTALLED AROUND THEM TO TRAP SEDIMENT.
- ALL PERMANENT PONDS USED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION SHALL BE DREGGED AFTER THE SITE HAS BEEN STABILIZED TO RESTORE THE POND TO THE PROPOSED BOTTOM ELEVATION.
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL AND STATE RULES INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- THE SITE MUST BE KEPT IN A WELL-DRAINED CONDITION AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DITCHES, PIPING OR OTHER MEANS REQUIRED TO INSURE PROPER DRAINAGE DURING CONSTRUCTION. LOW POINTS IN ROADWAYS OR BUILDING PADS MUST BE PROVIDED WITH A POSITIVE OUTFLOW.

ENGINEERING DIVISION
Approved By: Julie Long, PE
08/20/2024 5:15:55 PM



CONSTRUCTION DOCUMENTS

DESIGNED	SSA	11/14/2023
CHECKED	SSA	
DRAWN	AWL	
ISSUED FOR PERMIT	AWL	
CITY RESUBMITTAL	AWL	
ISSUED FOR BUILDING PERMIT	AWL	
ADDRESS	1	

PREPARED FOR:
ENCLAVE DEVELOPMENT
300 23RD AVE. E. SUITE 300
FARGO, ND 58078

PROJECT LOCATION: 300 23RD AVE. E. SUITE 300
FARGO, ND 58078
DATE: 08/17/2024
FILE NO.: 42797

ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

Westwood
Professional Services, Inc.
12501 Westwood Drive, Suite 200
Minnetonka, MN 55343
Phone: (952) 835-5522
Fax: (952) 835-5520
www.westwoodps.com

EROSION CONTROL PLAN

SHEET NUMBER:
C400
DATE: 06/11/2024
PROJECT NUMBER: 0043990.00

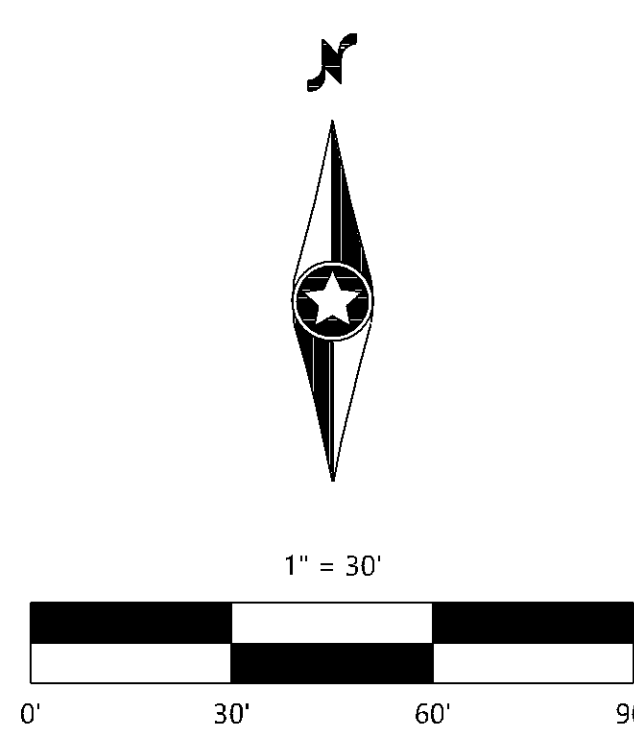
ENCLAVE BLOOMINGTON 78TH STREET

CONSTRUCTION DOCUMENTS

CROSSING	UPPER UTILITY TOP OF PIPE	LOWER UTILITY TOP OF PIPE
①	STORM ELEV = 83.59	WATER MAIN ELEV = 82.95
②	STORM ELEV = 82.6	WATER MAIN ELEV = 82.9
③	STORM ELEV = 83.1	WATER MAIN ELEV = 83.0
④	STORM ELEV = 82.1	WATER MAIN ELEV = 82.0
⑤	STORM ELEV = 82.49	WATER MAIN ELEV = 82.05
⑥	NOT USED	
⑦	STORM ELEV = 82.6	WATER MAIN ELEV = 82.0
⑧	STORM ELEV = 82.15	WATER MAIN ELEV = 81.65
⑨	STORM ELEV = 83.58	WATER MAIN ELEV = 82.0
⑩	WATER MAIN ELEV = 85.23	SANITARY ELEV = 86.21
⑪	STORM ELEV = 83.55	SANITARY ELEV = 82.0
⑫	STORM ELEV = 83.50	WATER MAIN ELEV = 83.08
⑬	NOT USED	
⑭	STORM ELEV = 84.2	WATER MAIN ELEV = 83.02
⑮	WATER MAIN ELEV = 83.07	SANITARY ELEV = 82.14
⑯	STORM ELEV = 83.35	SANITARY ELEV = 82.0

* DENOTES WATER MAIN LOWERING

ENGINEERING DIVISION
Approved By: Julie Long, PE
08/20/2024 5:16:11 PM





























CONSTRUCTION DOCUMENTS

SANITARY SEWER AND WATERMAIN LEGEND

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

SANITARY SEWER AND WATERMAIN LEGEND

<u>EXISTING</u>	<u>PROPOSED</u>	
_____	_____	PROPERTY LINE
-----	-----	EASEMENT LINE
_____	_____	CURB AND GUTTER
_____	_____	SANITARY SEWER
5041 		STORM SEWER
510 		WATER MAIN
5041 		HYDRANT
545 	545 	GAS
515 	515 	UNDERGROUND ELECTRIC
5041 	5041 	OVERHEAD ELECTRIC
5041 	5041 	UNDERGROUND TELEPHONE
5041 	5041 	OVERHEAD TELEPHONE
5041 	5041 	TELEPHONE FIBER OPTIC
5041 	5041 	CABLE TELEVISION
5041 	5041 	GATE VALVE
		FLARED END SECTION (WITH RIPRAP)
		LIGHT POLE

GENERAL WATERMAIN & SANITARY SEWER NOTES

1. 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 SHOWN IS RELIED ON FOR COORDINING C&I OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE OWNER OR ENGINEER OF DISCREPANCIES.
2. ALL SANITARY 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" WITH SANITARY SEWER AND STORM SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA.
3. 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.
4. THE 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.
5. 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 ANY ADVERSE CONSEQUENCES OF SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. WATER MAIN LENGTHS AS SHOWN ARE APPROXIMATE HORIZONTAL LENGTHS. ALLOW FOR 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 INSTALLED IN WATER MAIN CONSTRUCTION.
8. PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.
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. INSULATED CROSSINGS WITH STORM SEWER.
10. UTILITY SERVICES SPECIFICALLY TERMINATE S' OUTSIDE BUILDING WALL UNLESS OTHERWISE STORM OR NOTED.
11. DUCTILE IRON WATER LINES SHALL BE CLASS 52 FOR LINES 12 INCH Ø OR SMALLER, PER AWWA C115 OR C151. A MINIMUM 8 MIL POLYWRAP IS REQUIRED ON ALL DIP PIPE.
12. ALL WATER LINES SHALL HAVE 8" MINIMUM COVER. INSULATE WATER MAIN IF LESS THAN 8" OF COVER. INSULATION SHALL BE DOWD STYROFOAM HR BRANST 35 OR EQUIVALENT, WITH 4 INCHES OF THICKNESS.
13. SANITARY SEWER PIPE OUTSIDE THE BUILDING ENVELOPE SHALL BE POLYVINYL CHLORIDE (PVC) SD26. SANITARY SEWER PIPE WITHIN 5 FEET OF THE BUILDING AND UNDER FOOTINGS SHALL BE SCHEDULE 40 PER ASTM D2665. ALL PLASTIC SANITARY SEWER SHALL BE INSTALLED PER D321. SOLVENT WELD JOINTS MUST INCLUDE USE OF A PRIMER WHICH IS OF A CONTRASTING COLOR TO THE PIPE AND CEMENT. ALL SANITARY SEWER SHALL BE TESTED ACCORDING TO MINNESOTA PLUMBING CODE, PART 712.0.
14. ALL NONCONDUCTIVE PIPE SHALL BE INSTALLED WITH A LOCATE (TRACER) WIRE PER MINNESOTA PLUMBING CODE, PART 604.9.
15. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH 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.
16. ALL MANHOLE CASTINGS IN PAVED AREAS SHALL BE SUMPED 0.05 FEET. RIM ELEVATIONS ON PLAN REFLECT THE SUMPED ELEVATIONS.
17. COMBINATION FIRE AND DOMESTIC SERVICES MUST TERMINATE WITH A THREAD ON FLANGE OR A MECHANICAL JOINT TO FLANGE ADAPTER.
18. ALL COMPONENTS OF THE WATER SYSTEM, UP TO THE WATER METER OR FIRE SERVICE EQUIPMENT MUST UTILIZE PROTECTIVE, INTERNAL COATINGS MEETING CURRENT ANSI/AWWA STANDARDS FOR CEMENT LINING OR SPECIAL COATINGS. THE USE OF UNLINED OR UNCOATED PIPE IS NOT ALLOWED.

TOTAL ISSUE REGIONS		11/14/2023		DESIGNED	SSA
△	12/14/2023	CITY & WATERSEID COMMENTS	△	07/23/2024	ADD 3
△	12/29/2023	ISSUED FOR PERMIT	△	06/16/2024	ADD 1
△	01/10/2024	CITY RESUBMITTAL	△	06/09/2024	ADD 5
△	04/12/2024	ISSUED FOR BUILDING PERMIT	△		
△	06/11/2024	APPROVED FOR BUILDING PERMIT	△		
△	06/11/2024	APPROVED FOR BUILDING PERMIT	△		

REQUIRED FOR:
ENCLAVE DEVELOPMENT

I HEREBY CERTIFY THAT THIS PLAN 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

Shari Lynn S. Ahrens
SHARI LYNN S. AHRENS

DATE: 08/20/2024 LICENSE NO. 42797

ENCLAVE BLOOMINGTON 78TH STREET
BLOOMINGTON, MN

Westwood

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Westwood Professional Services, Inc.

**SANITARY SEWER &
WATERMAIN PLAN**

SHEET NUMBER:

C500

DATE: 08/20/2024

PROJECT NUMBER: 0043990.00