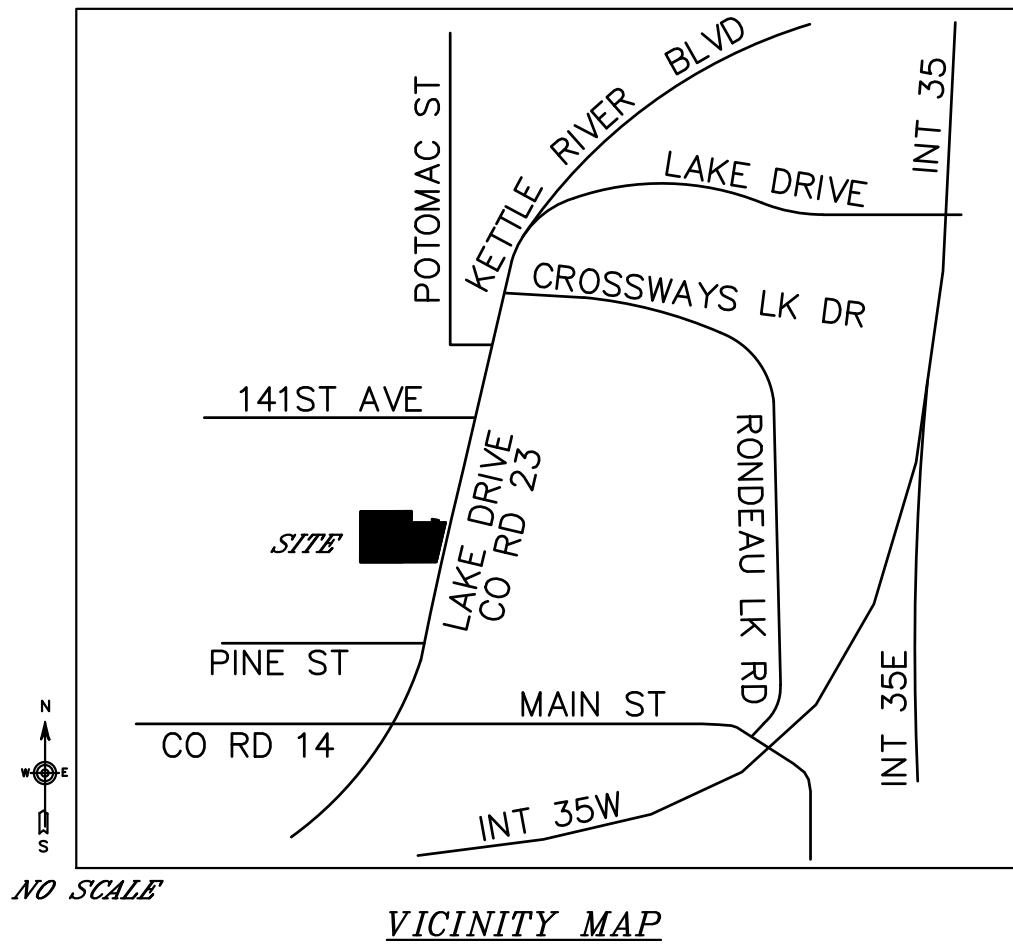


# WALDOCH ADDITION

## COLUMBUS, MN



### SHEET INDEX

- 1 - TITLE SHEET
- 2 - SITE, GRADING, AND EROSION CONTROL
- 3 - ENLARGED GRADING AND EROSION CONTROL
- 4 - RIGHT TURN AND BYPASS LANE PLAN
- 5 - TYPICAL SECTION AND DETAILS
- 6-7 - STORMWATER POLLUTION PREVENTION PLAN

**DEVELOPER:**  
DON AND JOHN WALDOCH  
1384 LAKE DRIVE  
COLUMBUS, MN 55025  
(612) 810-9292

**ENGINEER:**  
KRYSTLE BLOCH, P.E. (MN 49893)  
BLOCH ENGINEERING, PLLC  
32210 XEON ST NW  
CAMBRIDGE MN 55008  
(507) 995-2981

**SURVEYOR:**  
TOM HODORFF  
HARRY S. JOHNSON CO., INC  
9063 LYNDAL AVENUE SOUTH  
BLOOMINGTON, MN 55420  
(952) 884-5341

#### BULK REGULATIONS:

BUILDING SETBACKS:  
FRONT = 75 FEET  
SIDE = 10 FEET  
REAR = 35 FEET

#### ZONING:

THE PROPERTY IS ZONED FOR THE  
FOLLOWING:  
COMMERCIAL/INDUSTRIAL - C/I

GOVERNING STANDARDS: COUNTY OF ANOKA STANDARDS, CITY OF COLUMBUS STANDARD  
CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS FOR UTILITY AND STREET  
CONSTRUCTION, 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD  
SPECIFICATIONS FOR CONSTRUCTION", LATEST VERSION OF THE "MINNESOTA MANUAL OF  
UNIFORM TRAFFIC CONTROL DEVICES" (MMUTCD)

#### UTILITIES:

**GOPHER STATE ONE CALL**  
(651) 454-0002  
gopherstateonecall.org

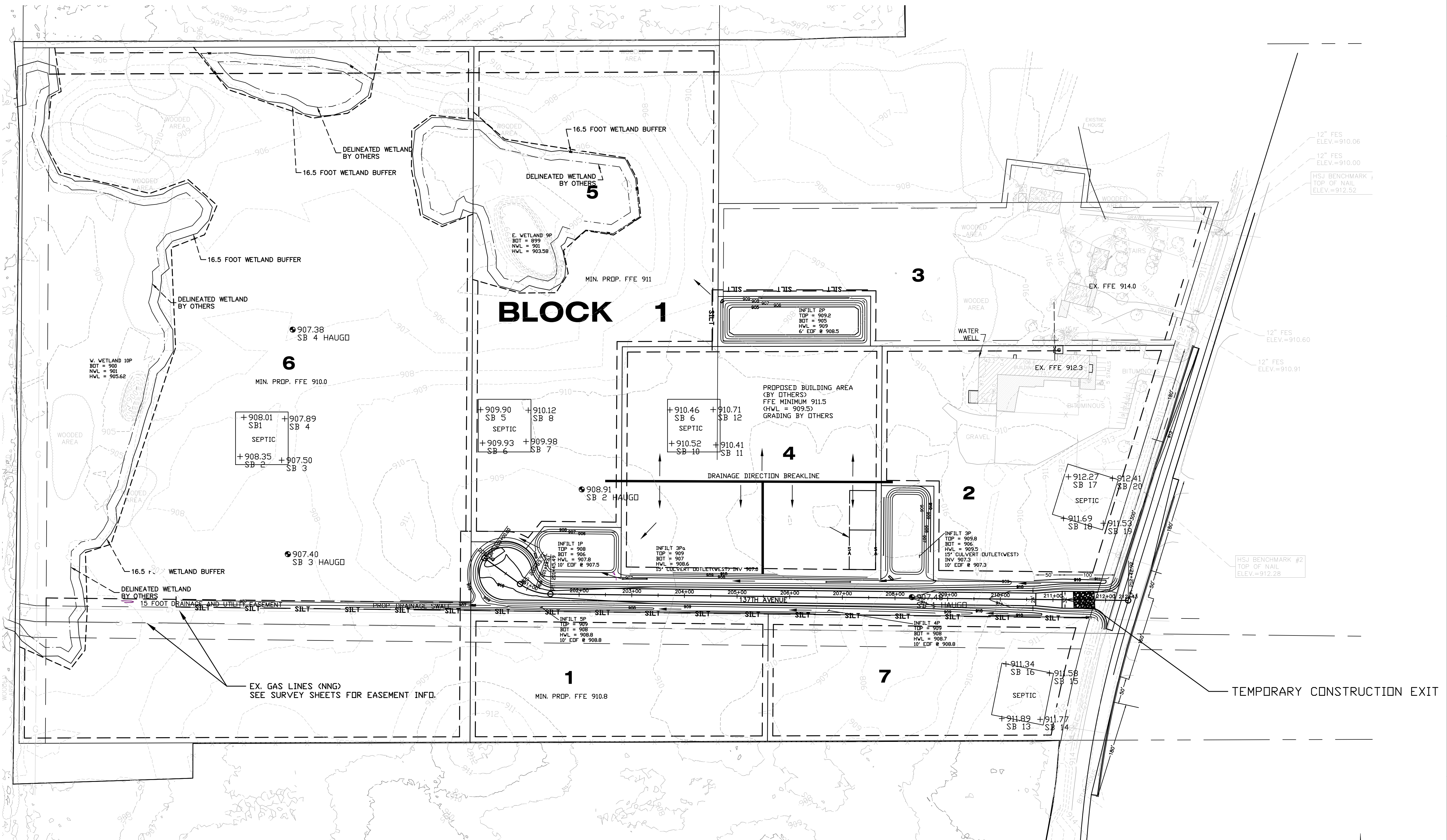
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D.  
THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 3-2,  
ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING  
SUBSURFACE UTILITY DATA."  
CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING  
CONSTRUCTION AS REQUIRED BY STATE LAW. GSOC INFORMATION ABOVE.

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.		REVISIONS		BY	DESCRIPTION
		NO.	DATE		
WALDOCH ADDITION 13824 & 13834 LAKE DRIVE COLUMBUS, MN		PRELIMINARY			
		KRYSTLE L. BLOCH			
OWNER / DEVELOPER: WALDOCH PROPERTIES		10-15-2021		49893	
		DATE		LIC. NO.	



# WALDOCH ADDITION IN COLUMBUS, MN

FIRE HYDRANT  
 WATER VALVE  
 MANHOLE  
 CATCH BASIN  
 POWERPOLE  
 LIGHT POLE  
 GUY  
 TRANSFORMER  
 ELECTRIC METER  
 TV PEDESTAL  
 TELEPHONE PEDESTAL  
 AIR CONDITIONER  
 HAND HOLE  
 SEMAPHORE  
 GAS METER  
 SANITARY SEWER  
 STORM SEWER  
 WATERMAN  
 UNDERGROUND GAS MAIN  
 UNDERGROUND TELEPHONE  
 UNDERGROUND ELECTRIC  
 UNDERGROUND CABLE T.V.  
 OVERHEAD UTILITY LINES  
 IRON MONUMENT FOUND  
 IRON PIPE MONUMENT SET  
 EXISTING SPOT ELEVATION  
 SOIL BORING  
 SIGN  
 DECIDUOUS TREE  
 CONIFEROUS TREE  
 DENOTES TREE AND BRUSH LIMITS  
 DENOTES PROPOSED DRAINAGE ARROW  
 DENOTES PROPOSED ELEVATION  
 CURB  
 CLASH OUT  
 BUSH  
 BARBECUE GRILL  
 AUTO SPRINKLER  
 BASKETBALL HOOP  
 BENCH  
 WATER SPIGOT  
 TRENCH DRAIN  
 MONITORING WELL  
 STORM DISIPATER  
 SATELITE DISH  
 TELEPHONE  
 ELECTRIC PEDESTAL  
 FLAG POLE  
 GROUND LITE  
 MAILBOX  
 ROOF DRAIN  
 TRANSMISSION TOWER  
 VENT PIPE  
 WELL  
 PROPOSED DRAINAGE ARROW  
 PROPOSED ELEVATION  
 SILT FENCE



1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE FIELD LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT (651) 454-0002.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
3. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
4. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
5. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
6. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS, IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT TO THE OWNER FOR REVIEW.
7. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING ORDINANCES AND BE CONSTRUCTED TO SAME.
8. ALL DISTURBED AREAS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE HYDROSEED
9. MINIMIZE COMPACTION IN INFILTRATION AREA.

1. ALL DISTURBED AREAS TO BE SEEDED AND MULCHED, EXCEPT AS NOTED IN NUMBER 8 BELOW.
2. MULCH TYPE 1 (DISK ANCHORED) IN DISTURBED AREAS OTHER THAN SOD AND INFILTRATION AREA.
3. SEED MNDOT TYPE 35-221, AT A RATE OF 36.5 LB/AC
4. SEED MNDOT TYPE 33-261, AT A RATE OF 35 LB/AC. USE ON POND BOTTOM AND UP SIDE SLOPES, WHERE IT WILL TRANSITION TO THE 35-221 MIX.
5. ALL SLOPES STEEPER THAN 4:1, SHALL BE RESTORED WITH SEED AND PROTECTED WITH EROSION CONTROL BLANKET PER MNDOT SPEC. 3885.1
6. USE BIODEGRADABLE EROSION CONTROL BLANKET ON POND SLOPES. MULCH ON POND BOTTOM.
7. MINIMIZE SOIL COMCACTION IN COWAS AND POND.
8. ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE SODDED.
9. AFTER SEEDING, PLACE POST-CONSTRUCTION SILT FENCE AROUND INFILTRATION BASINS AFTER GRADING HAS COMMENCED FOR THIS PROJECT TO PROVIDE PROTECTION FOR FUTURE GRADING/SITE WORK.
10. EOF ON INFILTRATION PONDS MUST BE PERMANENTLY STABILIZED WITH TURF REINFORCEMENT MAT OR GEGRID.

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.	PRELIMINARY
KRISTLE L. BLOCH	49893
10-15-2021	LIC. NO.

OWNER / DEVELOPER:  
WALDOCH PROPERTIES



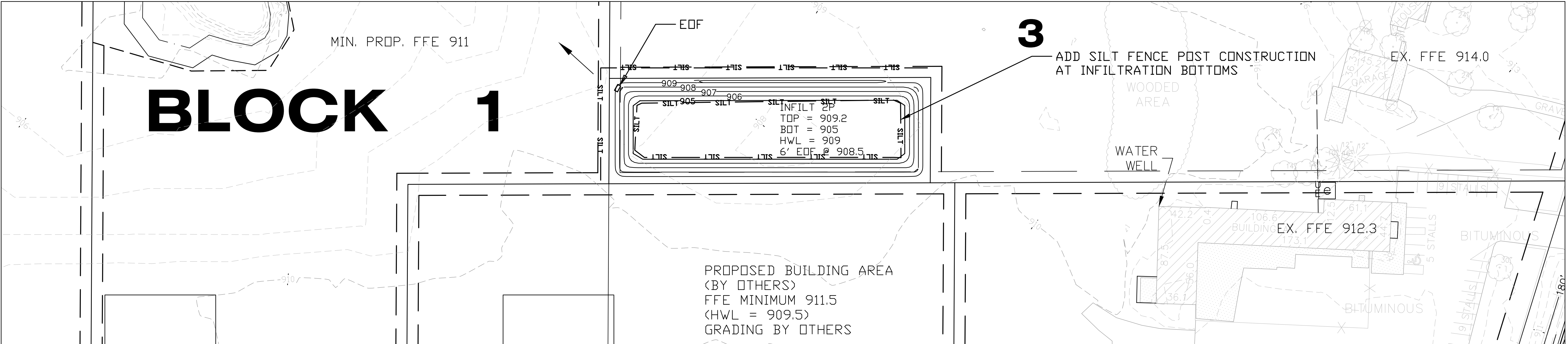
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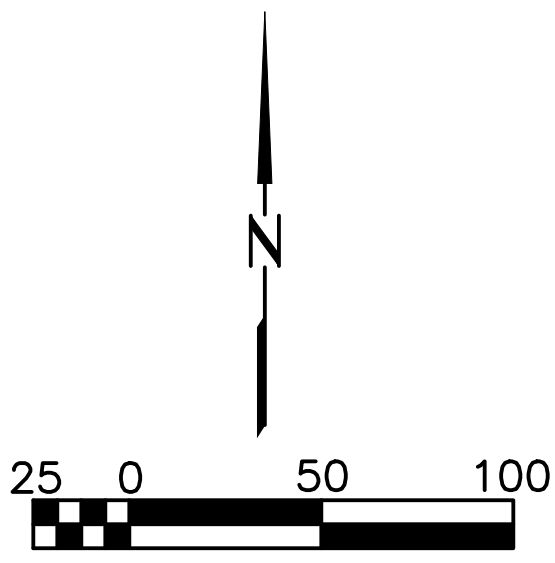
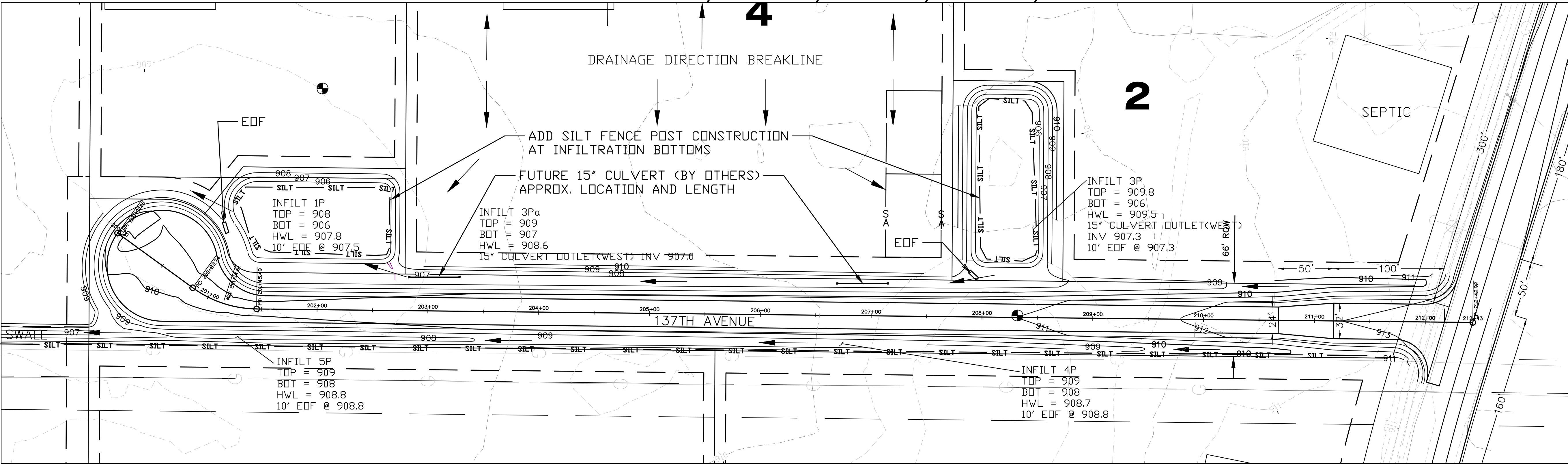
# ENLARGED GRADING AND EROSION CONTROL

WALDOCH ADDITION IN COLUMBUS, MN

GRADING FOR: NORTH POND (3P)



GRADING FOR: 137TH AVE, POND 1P, POND 3P, POND 4P, POND 5P

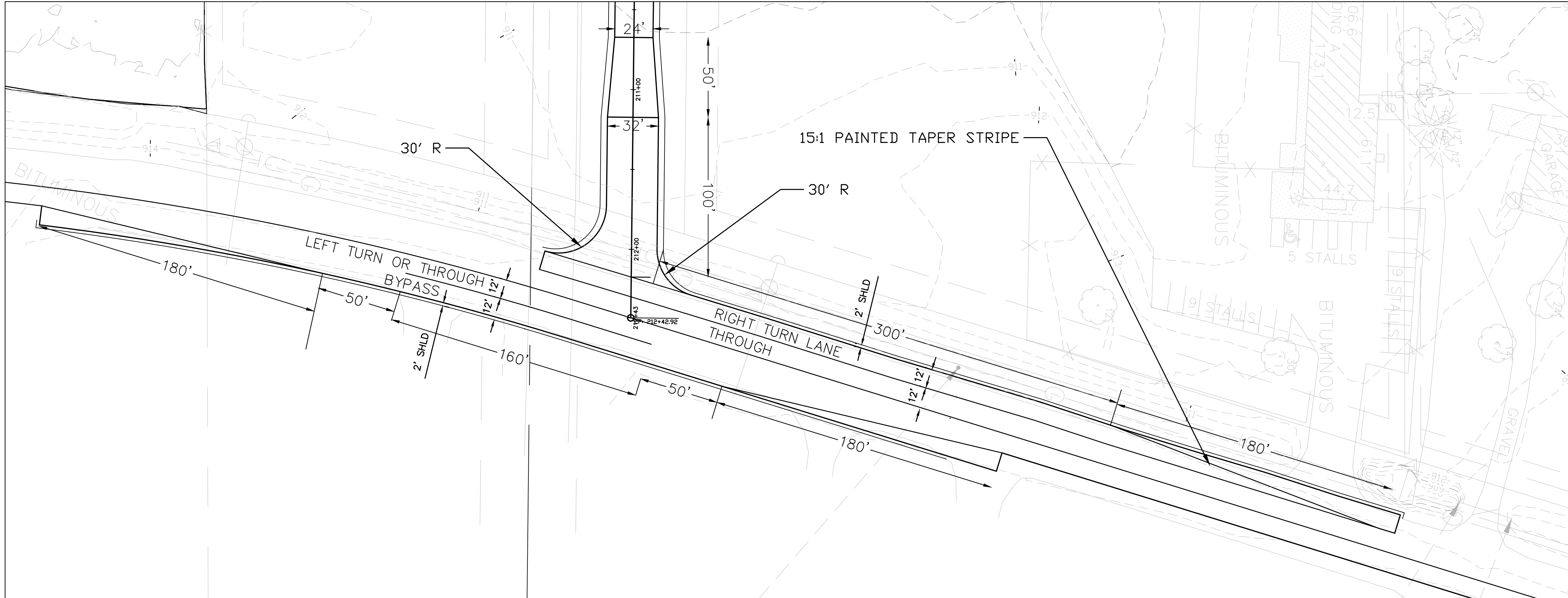


WALDOCH ADDITION 13824 & 13834 LAKE DRIVE COLUMBUS, MN				OWNER / DEVELOPER: WALDOCH PROPERTIES			
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				KRISTLE L. BLOCH			
				10-15-2021		49893	
				DATE		LIC. NO.	
BLOCH ENGINEERING				BLOCH ENGINEERING, PLLC blochengineering.com 32210 XEON ST NW CAMBRIDGE, MN 55008 krystle@blochengineering.com			
DRAWN BY: KLB				CHECKED BY: KLB			
DESIGNED BY: KLB				JOB NO. 21-23			
DATE: 10-15-21							
SHEET 3				SHEETS 7			



# RIGHT TURN AND BYPASS LANES

## WALDOCH ADDITION IN COLUMBUS, MN



# TYPICAL SECTION AND DETAILS

## WALDOCH ADDITION IN COLUMBUS, MN

### TYPICAL SECTION NOTES:

Transition from 24' to 32' pavement: 210+67.38 to 211+17.38

### Right Ditch Section:

200+00 –207+30 : 1:4 inslope down 2'(over 8') from shldr, 3'wide bottom 1:3 backslope

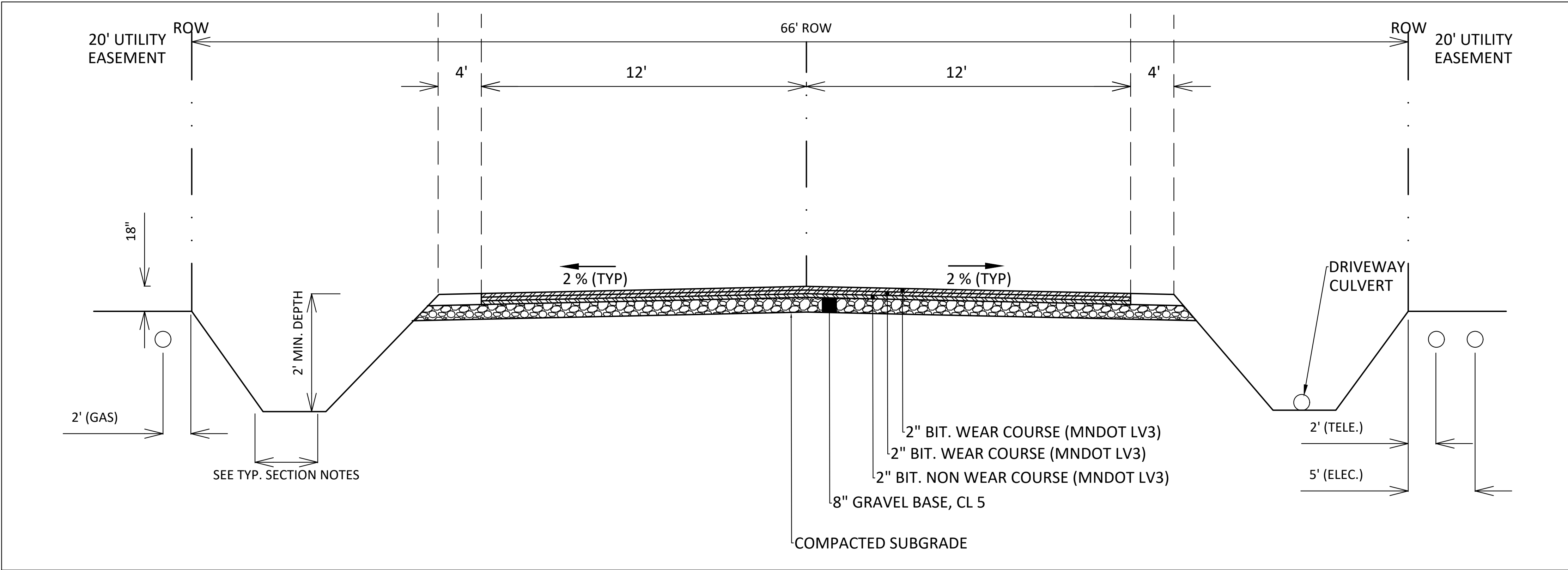
207+30 to 209+20: 1:4 inslope daylight to existing

209+20 to 210+60: 1:4 inslope down 2.5'(over 10') from shldr, 3'wide bottom 1:3 backslope

211+17.38 to 212+10: 1:4 inslope down 2.125'(over 8.5') from shldr, 3'wide bottom 1:3 backslope

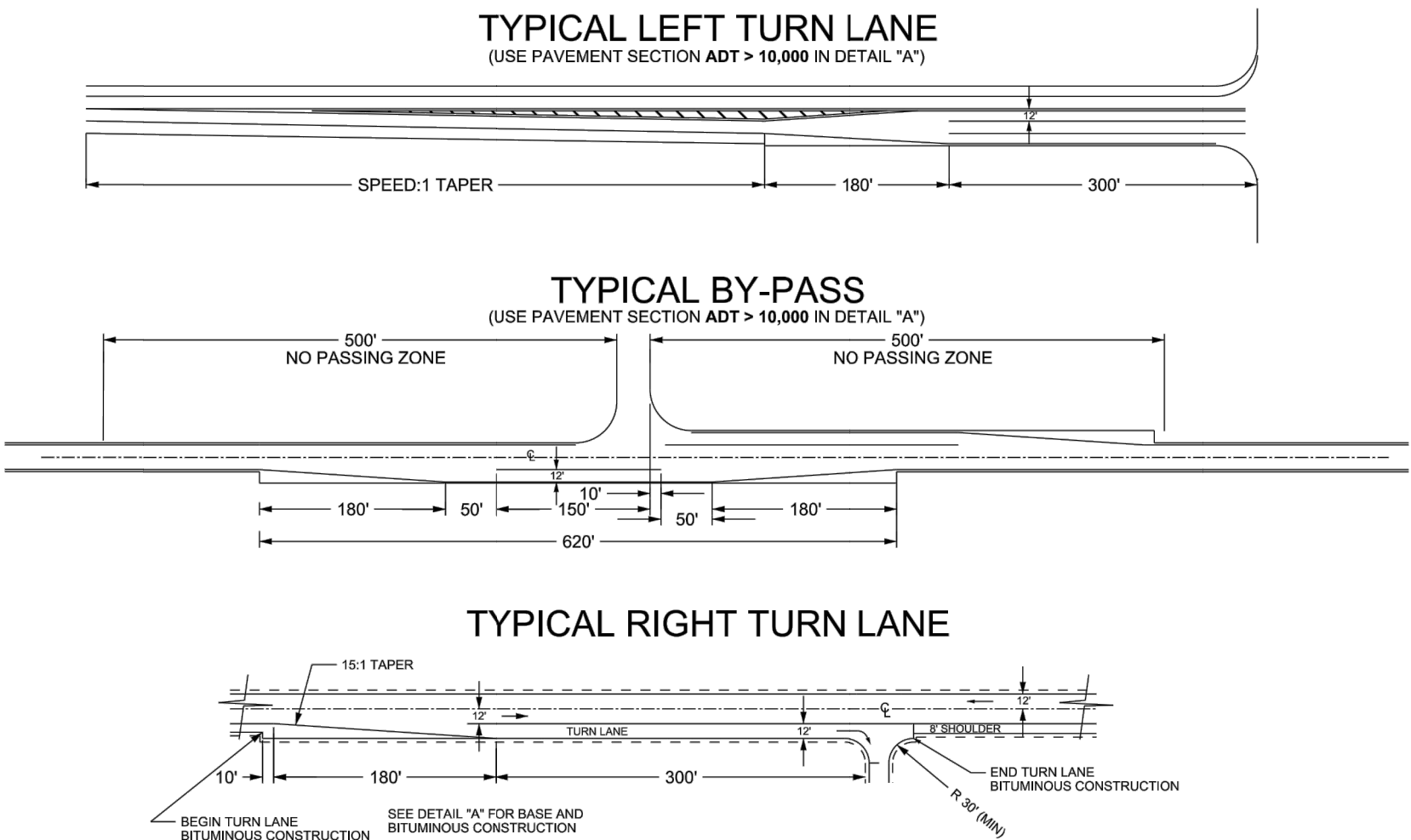
### Left Ditch Section:

200+00–212+10: 1:4 inslope down 3'(over 12') from shldr, 6'wide bottom 1:3 backslope



## ANOKA COUNTY STANDARD DETAILS

### ANOKA COUNTY HIGHWAY DEPARTMENT

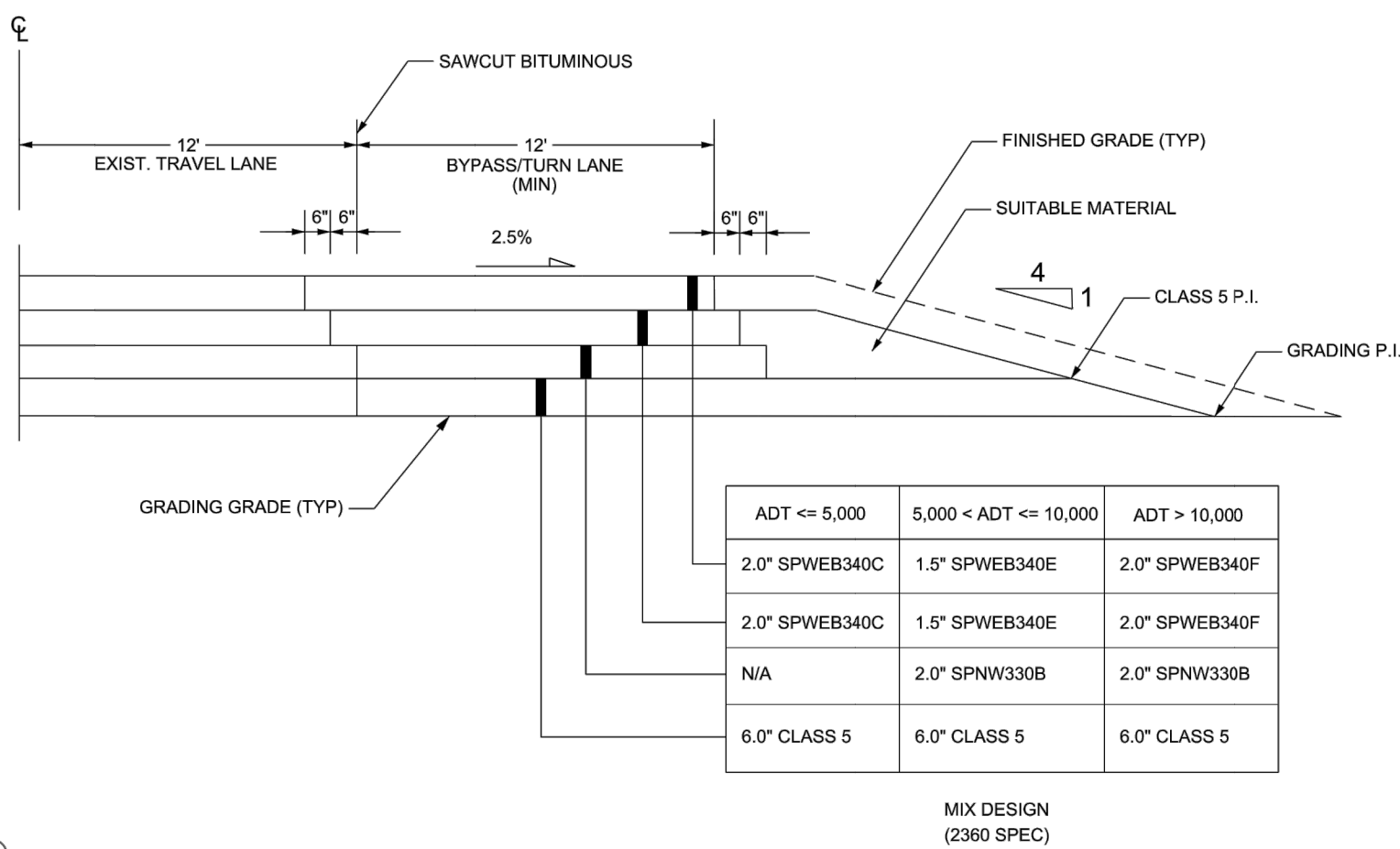


ALL DISTURBED SOIL MUST BE SEEDED, MULCHED, AND DISK ANCHORED IN ACCORDANCE WITH MN/DOT STANDARD SPECIFICATIONS. RAPID-DEGRADABLE STRAW BLANKET SHALL BE USED IN AREAS OF HIGH EROSION.

Turn/Bypass Lane Addition  
On Existing Highway

NOT TO SCALE  
EXHIBIT 1  
January 2020

### ANOKA COUNTY HIGHWAY DEPARTMENT

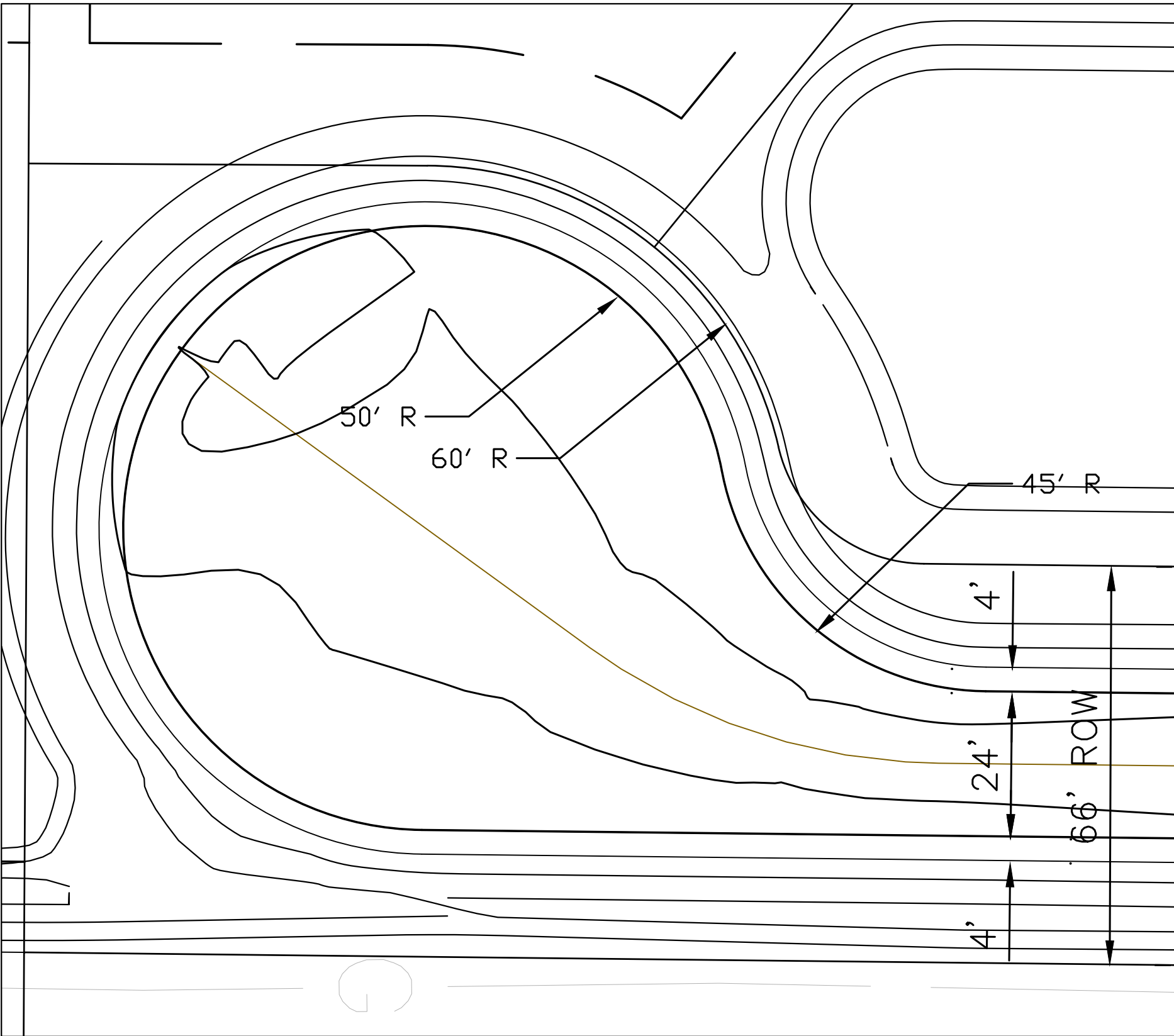


ALL DISTURBED SOIL MUST BE SEEDED, MULCHED, AND DISK ANCHORED IN ACCORDANCE WITH MN/DOT STANDARD SPECIFICATIONS. RAPID-DEGRADABLE STRAW BLANKET SHALL BE USED IN AREAS OF HIGH EROSION.

Base and Bituminous Construction Detail

NOT TO SCALE  
DETAIL A  
September 2019

## CUL-DE-SAC DETAIL



WALDOCH ADDITION  
13824 & 13834 LAKE DRIVE  
COLUMBUS, MN

OWNER / DEVELOPER:  
WALDOCH PROPERTIES

**BLOCH**  
ENGINEERING

BLOCH ENGINEERING, PLLC  
blochenengineering.com  
32210 XEON ST NW  
CAMBRIDGE, MN 55008  
krystle@blochenengineering.com

DRAWN BY: KLB

CHECKED BY: KLB

DESIGNED BY: KLB

JOB NO. 21-23

DATE: 10-15-21

SHEET  
5

SHEETS  
7

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, 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.

PRELIMINARY

KRISTLE L. BLOCH

49893

LIC. NO.

DATE

10-15-2021



STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

PROJECT DESCRIPTION:

This proposed site plan consists of the new construction of a new roadway into a proposed commercial/industrial development. This will include regrading and paving. The total area of construction and grading will be approximately 3.8 acres.

All of the proposed newly graded site will flow to the proposed infiltration areas on the property.

SWPPP IMPLEMENTATION

The Contractor is responsible for implementation of the SWPPP and the installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before and during construction. The Contractor will have an Erosion Control Supervisor who is responsible for coordinating the erosion prevention and sediment control BMPs. Waldochs are responsible for long term operation and maintenance of the permanent storm water management system.

PROJECT CONTACT IMPLEMENTATION/MAINTENANCE:

Erosion and Sediment Control, BMP Inspection Performed By:

xxx (TBD)  
xxx Contracting, LLC  
xxx, MN xxxxx

Long Term Pond Maintenance Provided By:  
John and Don Waldoch

TIMING OF BMP INSTALLATION

The erosion prevention and sediment control BMPs shall be installed as necessary to minimize erosion from disturbed surfaces and capture sediment on site.

1.

Erosion and sediment control BMPs must be installed prior to the start of construction.
2.

Where applicable, disturbed areas will immediately be temporarily stabilized prior to permanent turf establishment whenever construction ceases for 7 days, with special consideration of areas within 200 feet continuous positive slope of a surface water.
3.

Temporary or permanent energy dissipation shall be placed at pipe outlets within 24 hours after connection to a surface water.
4.

Temporary stabilization of stockpiles must be initiated immediately to limit soil erosion whenever any construction activity has permanently ceased on any portion of the site and will not resume for a period exceeding 7 calendar days.
5.

Planned slopes of 1:3 (V:H) or steeper and greater than 75 ft. in length will be temporarily or permanently stabilized in increments not to exceed 75 ft., prior to constructing or disturbing a new increment.
6.

BMPs must remain in place until final stabilization is achieved and permit NOT has been submitted to the MPCA.
7.

The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts around the site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge into any surface water. Stabilization of the last 200 lineal feet must be completed within 24 hours after connecting to a surface water.
8.

Developer/Contractor is responsible for removal of silt fence upon turf establishment.
9.

Seeding of site shall be completed within two weeks of grading completion.

CALCULATIONS:

Total Area of Grading = Roadway and Ponds = 3.8 Acres (Does NOT include Lot 4, 5 acres, as this is a separate project)  
Total Existing Impervious = 78,632 Square Feet (DOES include Lot 4 for drainage calculations)  
Total New Impervious = 230,268 Square Feet (DOES include Lot 4 for drainage calculations)

WATER QUALITY VOLUME (TOTAL)= (1.1")(1'/12")(230,268 SF) = 21,108 CF  
WQ VOLUME (LOT 4 ONLY) = 180,862 SF (LOT 4 SITE DESIGN BY OTHERS)  
= (1.1")(1'/12")(180,862 SF) = 16,579 CF  
WQ VOLUME (ROAD AND POND5) = 5,429 CF

SOIL TYPES:

Majority A Soils (soil borings)

CONSTRUCTION SEQUENCE:

Construction to begin fall 2021. Silt fence around where specified and Rock entrances to be installed before any of the following scheduled events take place. Existing structures shall also be protected from sediment from the start of construction.

1. Grading
2. Road prep and construction
3. Infiltration pond final grading

Construction completion expected Summer 2022. All temporary erosion control measures will be removed and disposed of according to MPCA requirements. Final stabilization will be established.

If construction is not completed before winter, stockpiles and any slopes must be stabilized with appropriate BMPs (mulch, seed, erosion control blanket) as applicable to avoid erosion in the following spring season.

See NPDES CWS Permit Part 11 for inspection frequency adjustments throughout the course of scheduled construction.

IMPAIRED AND SPECIAL WATERS

There are no special or impaired waters within 1 mile of this site.

KARST AREA PROTECTION:

There is no active Karst in this site.

CALCAREOUS FENS:

No calcareous Fen sites exist on this project.

MITIGATION DUE TO REVIEWS:

There are no stormwater mitigation measures proposed as part of environmental, endangered species, archaeological or other required local, state or federal reviews conducted for the project.

EROSION CONTROL QUANTITIES:

EROSION CONTROL QUANTITIES		
	UNIT	QUANTITY
SILT FENCE	LF	1800
TEMP. CONSTRUCTION EXIT	EACH	1
POST CONST. SILT FENCE	LF	1455

REVISIONS

NO.	DATE	BY	DESCRIPTION

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PRELIMINARY

KRYSTLE L. BLOCH

10-15-2021

49893

LIC. NO.

DATE

WALDOCH ADDITION  
13824 & 13834 LAKE DRIVE  
COLUMBUS, MN

OWNER / DEVELOPER:  
WALDOCH PROPERTIES

BLOCH

ENGINEERING

BLOCH ENGINEERING, PLLC

blochengineering.com

32210 XEON ST NW

CAMBRIDGE, MN 55008

krystle@blochengineering.com

DRAWN BY: KLB

CHECKED BY: KLB

DESIGNED BY: KLB

JOB NO. 21-23

DATE: 10-15-21

SHEET6

SHEETS7

### CONSTRUCTION NOTES:

## TRAINING REQUIREMENTS:

- ## EROSION PREVENTION MEASURES:

- ## SEDIMENT CONTROL MEASURES:

- ## DEWATERING AND BASIN DRAINING:

- ### THE DESCRIPTION OF INSPECTIONS AND MAINTENANCE:

- INSPECTION AND MAINTENANCE REQUIREMENTS MUST INCLUDE:

- ### MAINTENANCE PERFORMANCE:

- ## POLLUTION PREVENTION MANAGEMENT:

- ## FINAL STABILIZATION:

- DISCHARGE TO WETLANDS:**

- ### MISCELLANEOUS:

- [illegible]