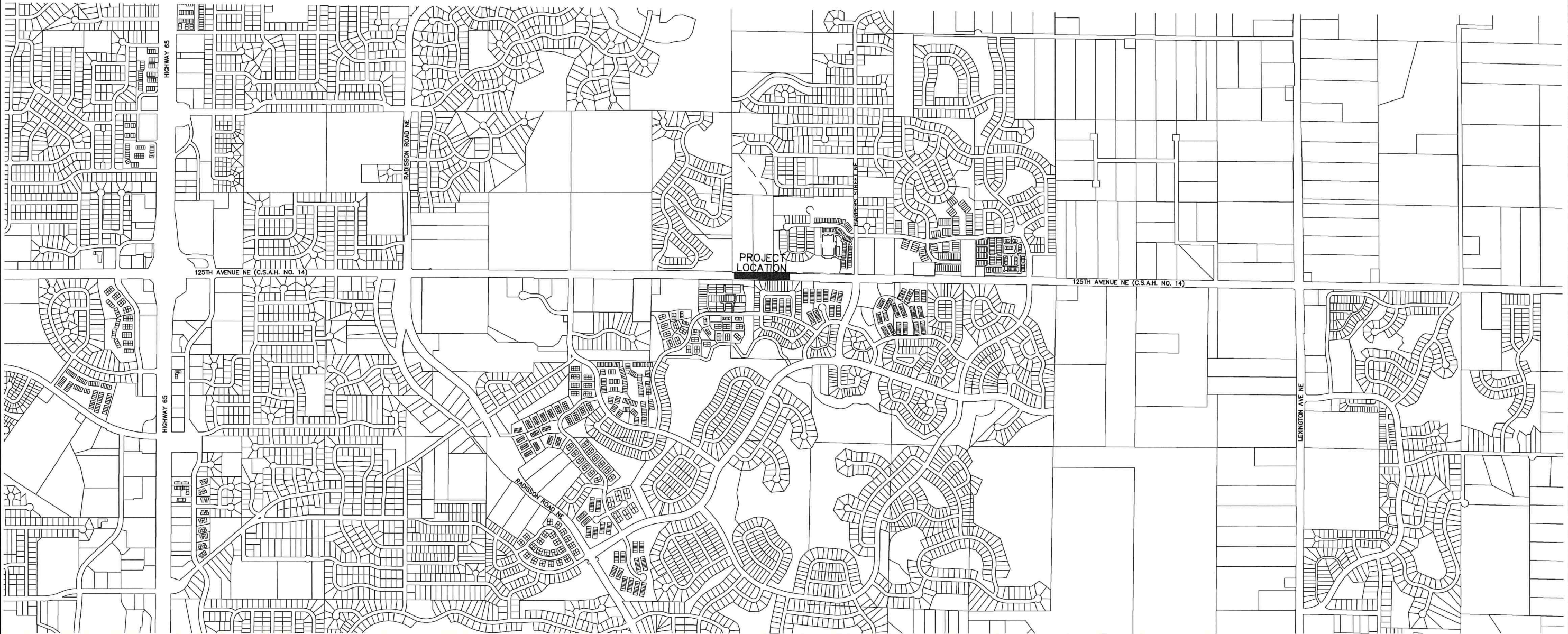
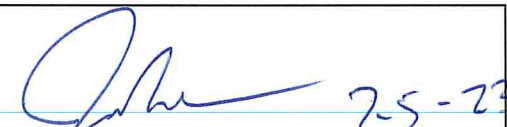


MEADOWLAND ESTATES WEST

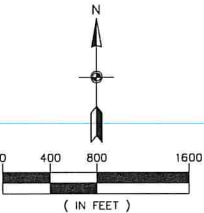
CONSTRUCTION PLANS FOR TURN LANES INCLUDING;
GRADING, STORM SEWER, STREETS, SIGNING AND STRIPING
BLAINE, MINNESOTA




APPROVED: ANOKA COUNTY ENGINEER DATE: 7-5-23

SHEET INDEX

- T1. COVER
- T2. REMOVALS & GRADING, DRAINAGE & EROSION CONTROL PLAN
- T3. SITE & UTILITY PLAN
- T4. SIGNING & STRIPING PLAN
- T5. CROSS SECTIONS
- T6. TRAFFIC CONTROL PLAN



CALL BEFORE YOU DIG

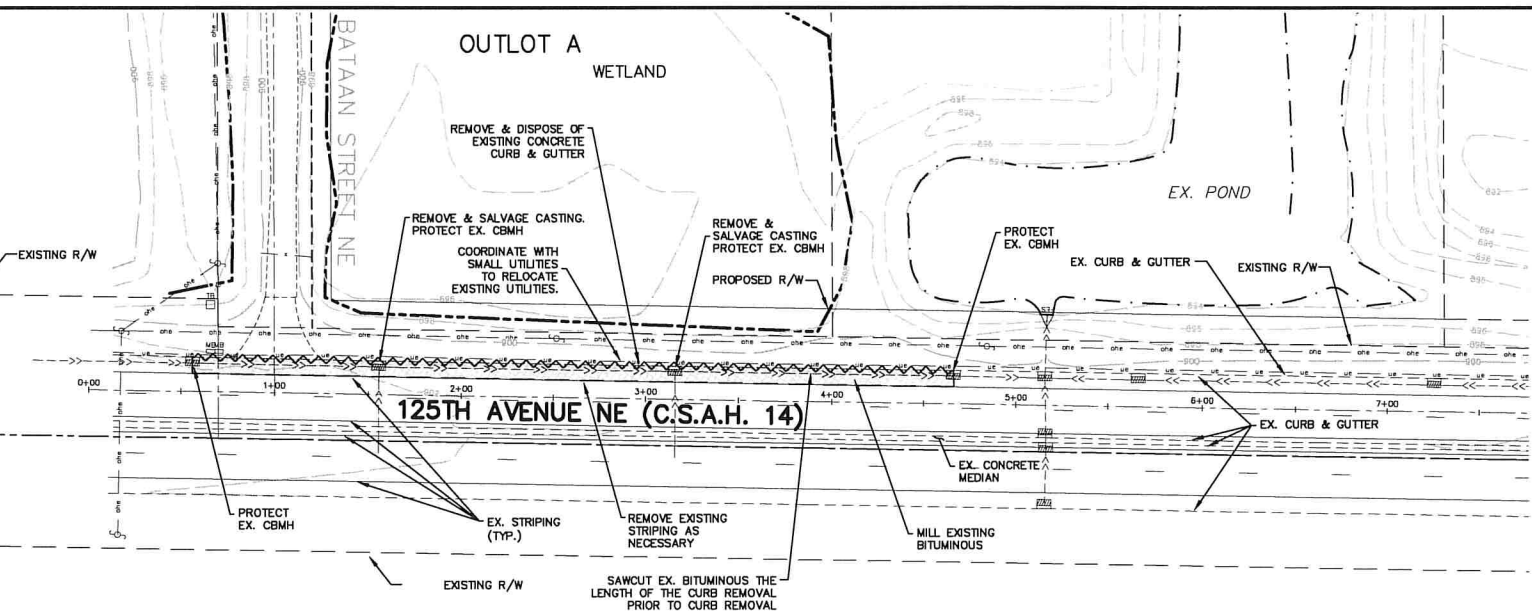
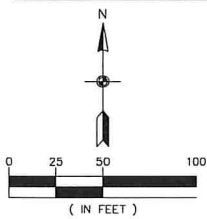




Know what's below.
Call before you dig.

The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of C/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."

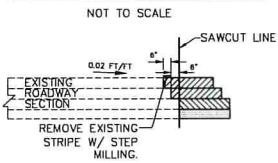
REMOVALS



REMOVALS LEGEND

EXISTING	REMOVALS
PROPERTY LINE	---
EASEMENT LINE	---
SAW CUT	---
BITUMINOUS	---
CONCRETE CURB & GUTTER	---
CONCRETE	---
SANITARY SEWER	---
STORM SEWER	---
WATER MAIN	---
OVERHEAD UTILITY	---
UNDERGROUND TELEPHONE	---
UNDERGROUND FIBEROPTIC	---
UNDERGROUND GAS	---
STORM CATCH BASIN	---
SIGN	---
HYDRANT	---
GATE VALVE	---
TELEPHONE BOX	---
UTILITY POLE	---
FENCE	---
GRAVEL EDGE	---
STRIPING	---
5' CONTOUR	---
1' CONTOUR	---
WETLAND LINE	---
SPOT ELEVATION	---

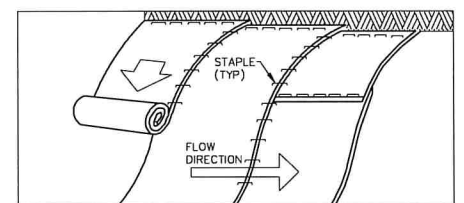
SAW CUT & MILLING DETAIL



* CONTRACTOR TO VERIFY UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF ANY EXCAVATION.

COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF ANY UNDERGROUND UTILITIES UNDER PROPOSED ROAD.

EROSION CONTROL BLANKET

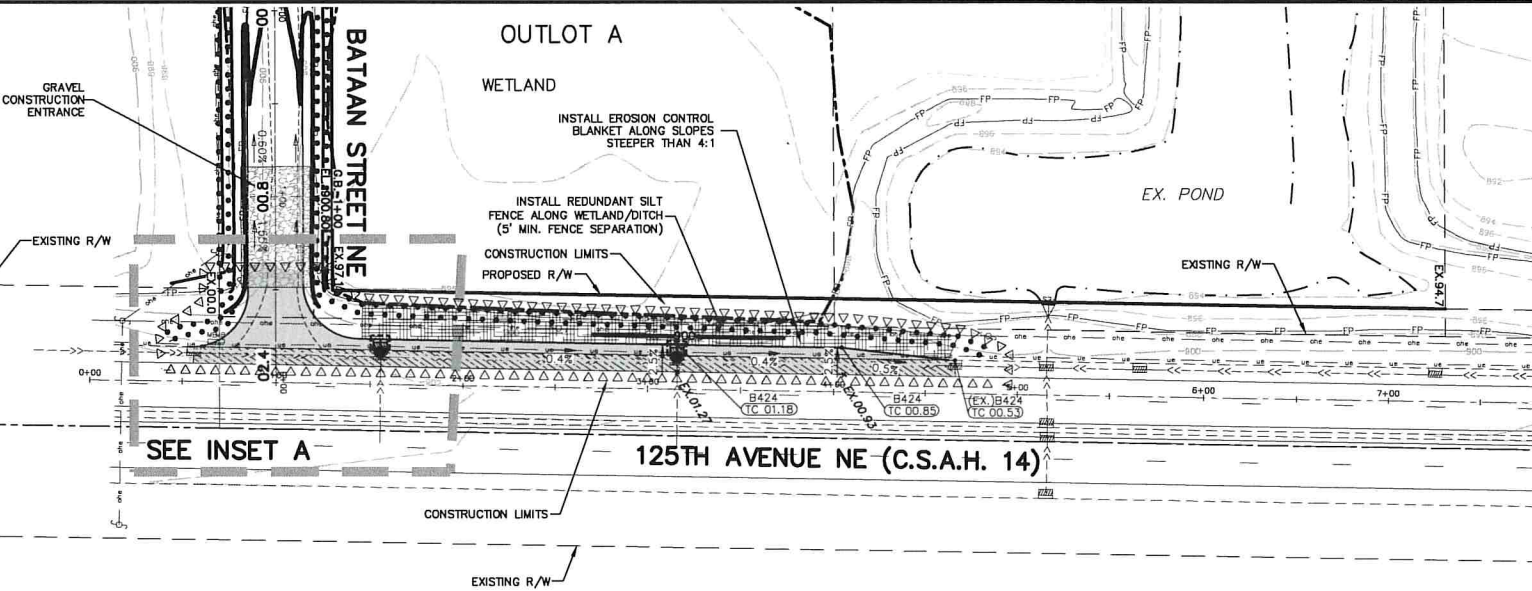
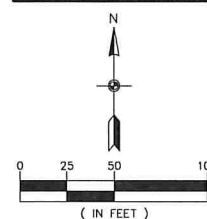


- NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND/OR SEED.
 2. BEGIN AT THE TOP OF THE SLOPE (OR CHANNEL) BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 3. ROLL THE BLANKETS DOWN (STARTING DOWNSTREAM PROCEEDING UPSTREAM) HORIZONTALLY ACROSS THE SLOPE.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH A MINIMUM 4" OVERLAP.
 5. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH MINIMUM 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
 6. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
 7. THE TERMINAL ENDS OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

GRADING LEGEND

EXISTING	PROPOSED
PROPERTY LINE	---
EASEMENT LINE	---
CURB LINE	---
CONSTRUCTION LIMITS	---
BITUMINOUS	---
CONCRETE	---
SANITARY SEWER	---
STORM SEWER	---
WATER MAIN	---
OVERHEAD UTILITY	---
UNDERGROUND TELEPHONE	---
UNDERGROUND FIBEROPTIC	---
UNDERGROUND GAS	---
STORM CATCH BASIN	---
STORM MANHOLE	---
HYDRANT	---
GATE VALVE	---
TELEPHONE BOX	---
UTILITY POLE	---
FENCE	---
GRAVEL EDGE	---
5' CONTOUR	---
1' CONTOUR	---
EROSION CONTROL BLANKET	---
WETLAND LINE	---
SPOT ELEVATION	---
SIGN	---

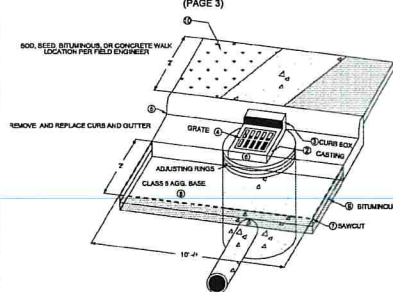
GRADING



* VERIFY GRADES W/EXISTING BITUMINOUS EDGE ELEVATION IN FIELD

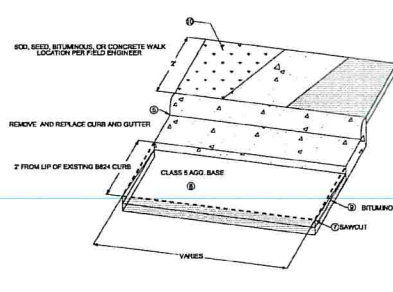
CATCH BASIN DETAIL

SEE STRUCTURE TAB FOR LOCATION (PAGE 3)



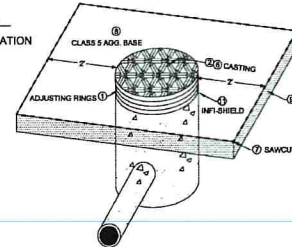
NEW CURB DETAIL

SEE PLAN FOR LOCATION



MANHOLE DETAIL

SEE STRUCTURE TAB FOR LOCATION (PAGE 3)



NOTES

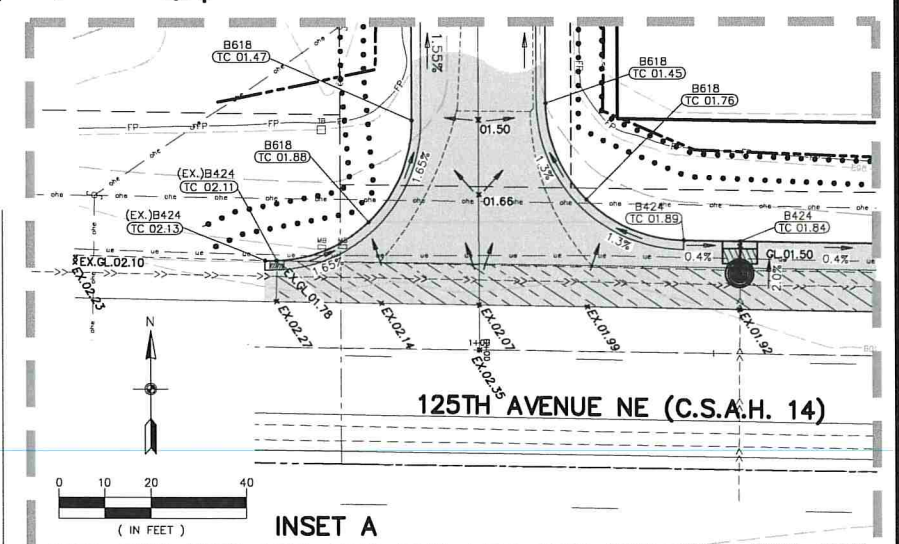
- FOR TRAFFIC CONTROL AT CATCH BASIN AND MANHOLE REPAIRS REFER TO THE MINNESOTA MANUAL ON TEMPORARY TRAFFIC CONTROL LAYOUTS FIELD MANUAL.
1. CONCRETE ENCASED CONCRETE ADJUSTING RINGS STANDARD PLATE 4028A
 2. RING AND FRAME CASTING, REFERENCE CASTING ASSEMBLY SUMMARY CHART FOR CASTING TYPE
 3. CURB BOX MATCHES CASTING REFERENCE CHART FOR CASTING TYPE
 4. GRATE CASTING, REFERENCE CASTING ASSEMBLY SUMMARY CHART FOR CASTING TYPE
 5. CONCRETE CURB AND GUTTER DESIGN B STANDARD PLATE 1100A, FORM CURB TO FIT CASTING
 6. INSTALLATION OF CATCH BASIN OR MANHOLE CASTINGS, REFERENCE STANDARD PLATE PER TYPE OF CASTING
 7. SAWCUT BITUMINOUS PAVEMENT (CONCRETE CURB FULL DEPTH)
 8. ADD AND COMPACT ADEQUATE BASE CLASS 5 AROUND REPAIRED STRUCTURE. ITEM INCIDENTAL TO ENTIRE STRUCTURE REPAIR
 9. REMOVE VARIABLE DEPTH BITUMINOUS PATCH WITH 2" LIFTS OF BITUMINOUS, TOP LIFT SHOULD TAPER TO BOTTOM LIFT AT CURB
 10. REPLACE DISTURBED AREA BEHIND CATCH BASIN WITH BETTER SOU (RESIDENTIAL AREAS)
 11. EROSION CONTROL BLANKET, BITUMINOUS OR CONCRETE
 12. WRAP STORM SEWER MANHOLE AND SANITARY SEWER MANHOLE CONCRETE ADJUSTING RINGS & CASTINGS WITH INF-SHIELD SEAL WRAP OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. INF-SHIELD WRAP INCIDENTAL TO ADJUSTMENT.

NO.	DATE	BY	CHKD.	APPROVED	REVISION
1	4/26/23	GJS			1. 6/15/23 per ACHD comments

ANOKA COUNTY
HIGHWAY DEPT.

STATE AID PROJECT
STATE AID PROJECT

DETAILS



CARLSON MCCAIN
ENGINEERING
SURVEYING
ENVIRONMENTAL

3890 PHEASANT RIDGE DR NE
SUITE 100
BLAINE, MN 55449
TEL 763.468.7900
FAX 763.468.7859
CARLSONMCCAIN.COM

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

Print Name: Aaron D. Briski, P.E.
Signature: *Aaron Briski*
Date: 4/26/23 License #: 57811

Drawn: GJS
Designed: ADB
Date: 4/26/23

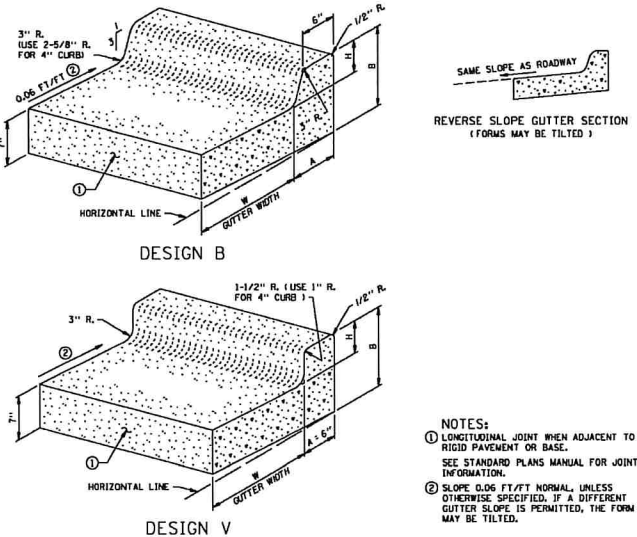
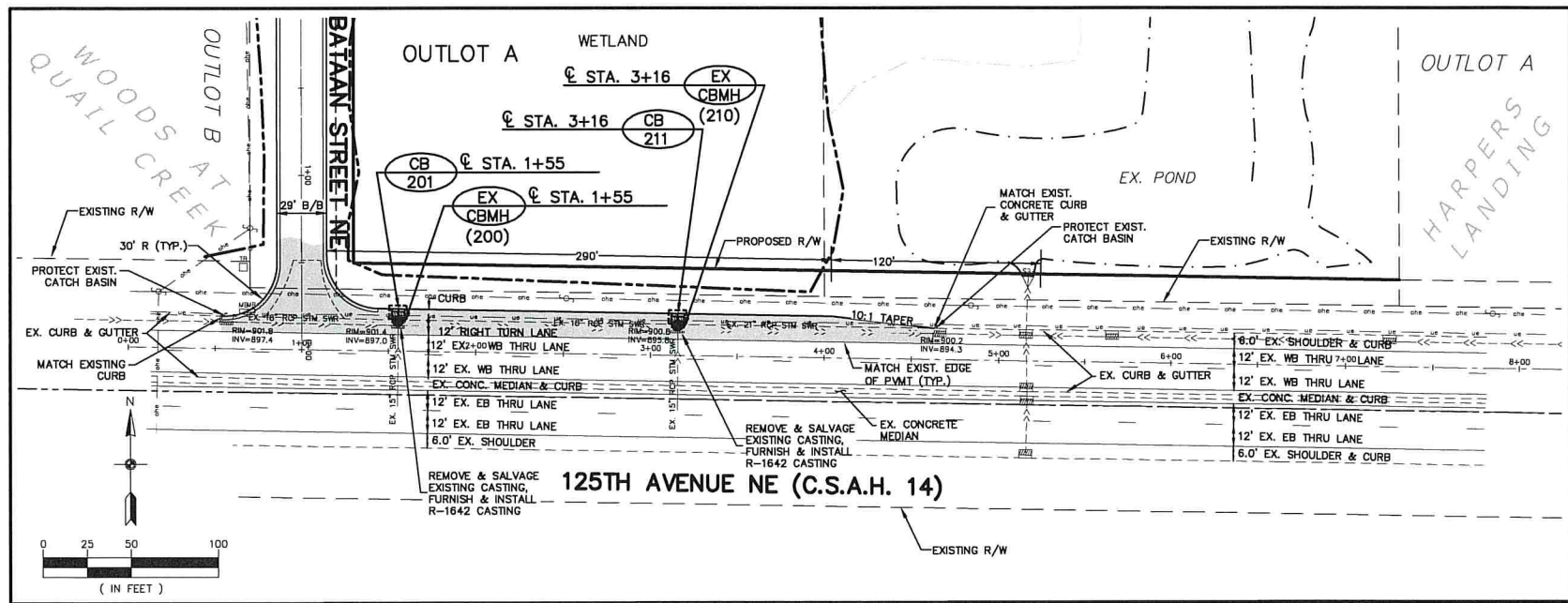
Revisions:
1. 6/15/23 per ACHD comments

HERBST RANCH INVESTMENTS, LLC.
3122 - 117th Avenue NE
Blaine, MN 55449

MEADOWLAND ESTATES WEST
Blaine, Minnesota

**REMOVALS & GRADING,
DRAINAGE & EROSION
CONTROL PLAN**

T2
of
T6



DESIGN B		DESIGN V	
W = 12"	W = 18"	W = 24"	W = 30"
DESIGN NO.	DESIGN NO.	DESIGN NO.	DESIGN NO.
CL. YDS.	CL. YDS.	CL. YDS.	CL. YDS.
PER. LIN. FT.	PER. LIN. FT.	PER. LIN. FT.	PER. LIN. FT.
PER. CUL. YDS.	PER. CUL. YDS.	PER. CUL. YDS.	PER. CUL. YDS.
DESIGN NO.	DESIGN NO.	DESIGN NO.	DESIGN NO.
CL. YDS.	CL. YDS.	CL. YDS.	CL. YDS.
PER. LIN. FT.	PER. LIN. FT.	PER. LIN. FT.	PER. LIN. FT.
PER. CUL. YDS.	PER. CUL. YDS.	PER. CUL. YDS.	PER. CUL. YDS.

APPROVED MARCH 31, 1994

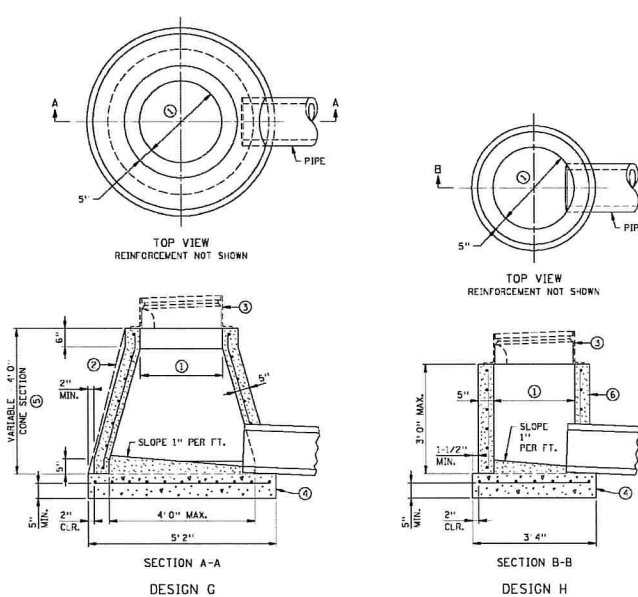
STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

CONCRETE CURB AND GUTTER
DESIGN B AND DESIGN V

SPECIFICATION
REFERENCE
2501

STANDARD
PLATE
NO.
7100H

REVISION DATE
2-28-05



APPROVED JULY 31, 1995

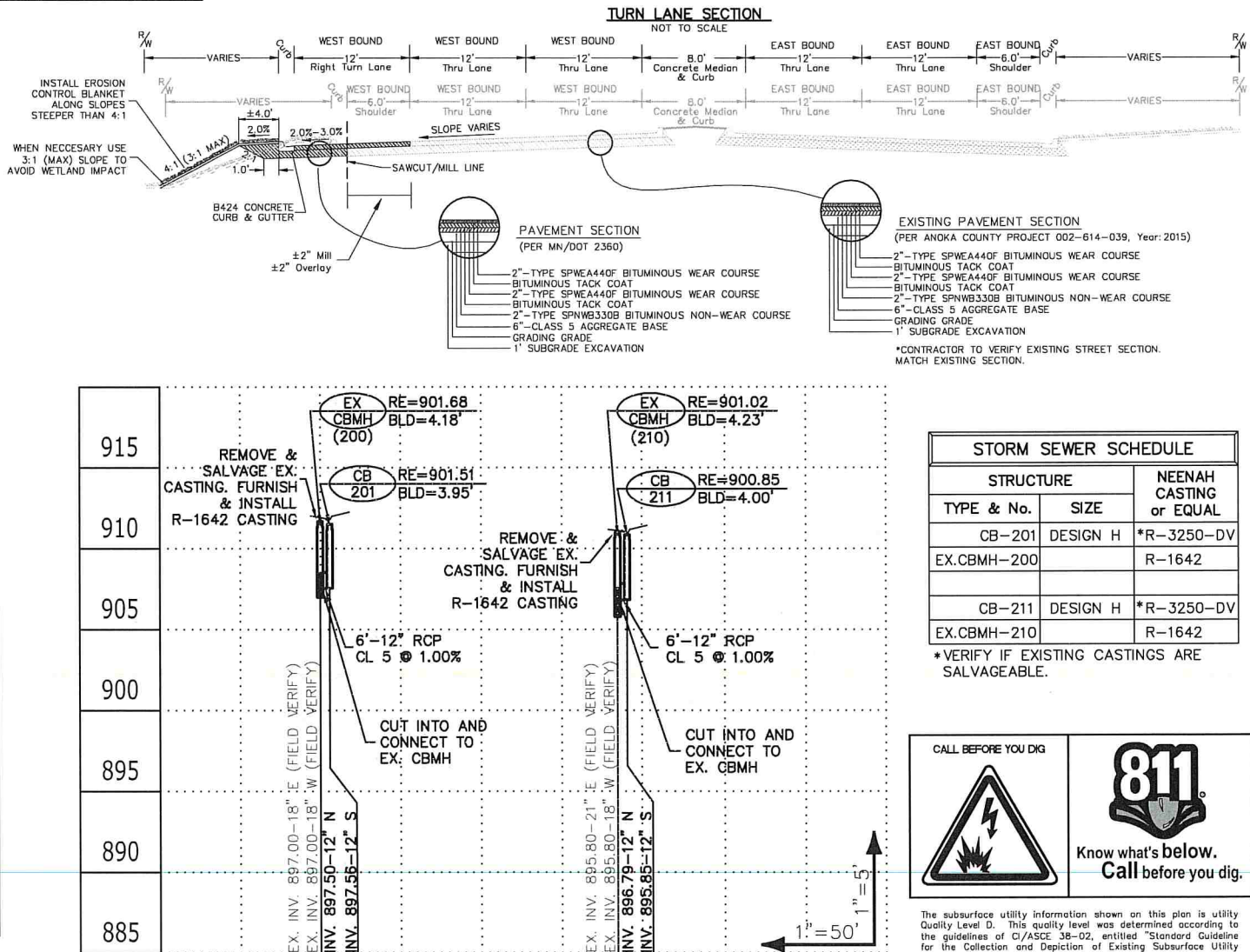
STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

MANHOLE OR CATCH BASIN
PRECAST

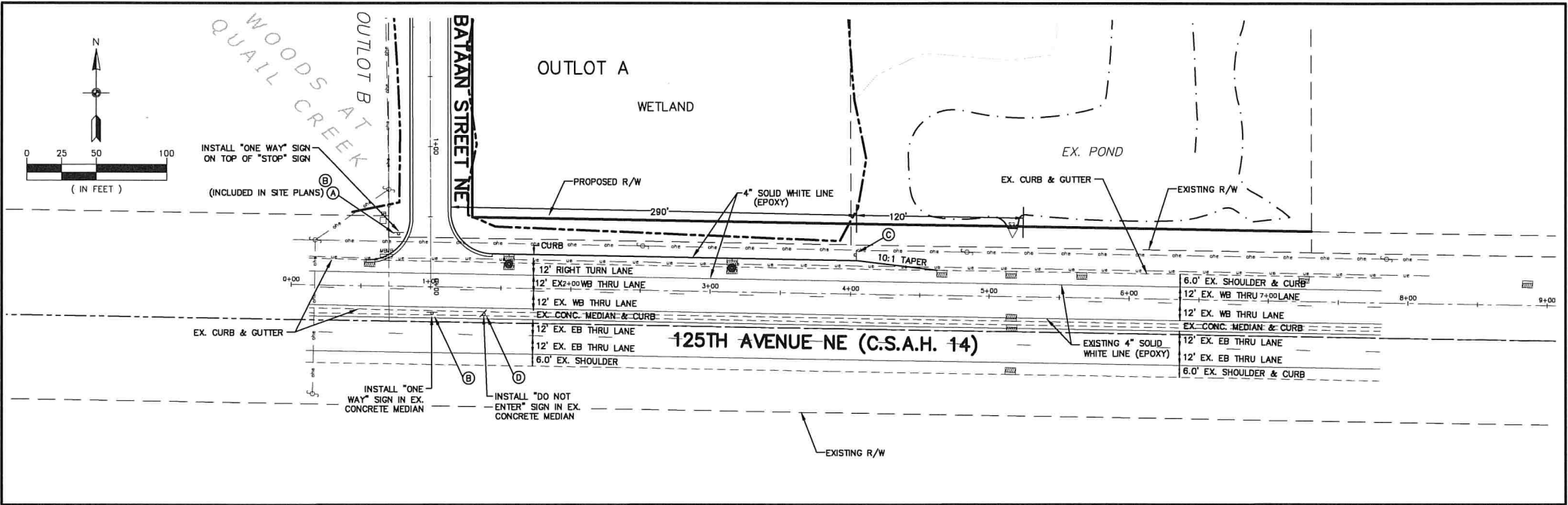
SPECIFICATION
REFERENCE
2506

STANDARD
PLATE
NO.
4006L

REVISION
8-22-95



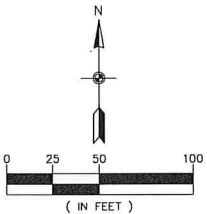
The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of C/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."



SIGN SCHEDULE			
SIGN	SIGN NO.	SIZE	QUANTITY
(A)	R1-1	36" X 36" (WHITE ON RED)	(INCLUDED IN SITE PLANS)
(B)	R8-1R	54" X 18" (BLACK ON WHITE)	2
(C)	R3-7R	36" X 36" (BLACK ON WHITE)	1
(D)	R5-1	36" X 36" (RED ON WHITE)	1

LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	---
EASEMENT LINE	---
CURB LINE	---
BITUMINOUS	---
GRAVEL	---
CONCRETE	---
SANITARY SEWER	---
STORM SEWER	---
WATER MAIN	---
OVERHEAD UTILITY	---
UNDERGROUND TELEPHONE	---
UNDERGROUND FIBEROPTIC	---
UNDERGROUND GAS	---
STORM CATCH BASIN	---
STORM MANHOLE	---
HYDRANT	---
GATE VALVE	---
TELEPHONE BOX	---
UTILITY POLE	---
FENCE	---
GRAVEL EDGE	---
STRIPING	---
SIGN	---

- TURN LANE NOTES**
- ALL GRADES ARE TO FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
 - THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 SHALL GOVERN FOR ALL WORK WITHIN ANOKA COUNTY HIGHWAY R/W.
 - ALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, 2018"
 - CONTRACTOR TO OBTAIN A PERMIT FROM ANOKA COUNTY HIGHWAY DEPARTMENT PRIOR TO PERFORMING ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
 - ALL TURN LANE STRIPING SHALL BE COMPLETED USING EPOXY PAINT.
 - CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
 - CONTRACTOR SHALL COORDINATE WORK AROUND AND RELOCATION OF SMALL UTILITIES.
 - CONTRACTOR SHALL COORDINATE RELOCATION OF FIBER INTERCONNECT/CONDUIT & HAND HOLES W/ ANOKA COUNTY HIGHWAY DEPARTMENT.
 - CONTRACTOR TO CONTACT ANOKA COUNTY HIGHWAY DEPARTMENT 48 HOURS BEFORE STRIPING CONSTRUCTION.
 - APPLICABLE MNDOT STANDARD PLATES: 3022C, 4006L, 9000E, 4129G, 4154B, 4160D, 9102E

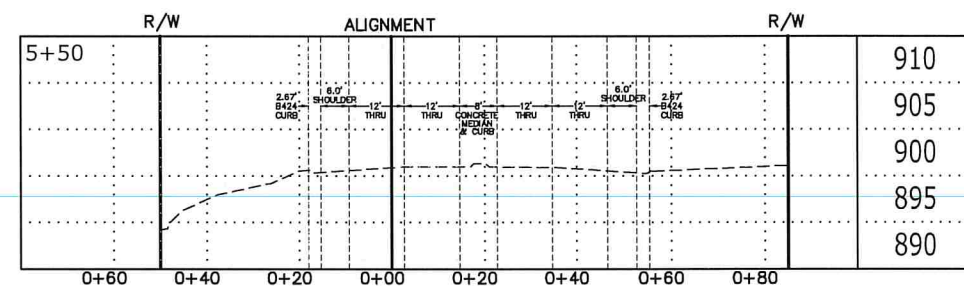
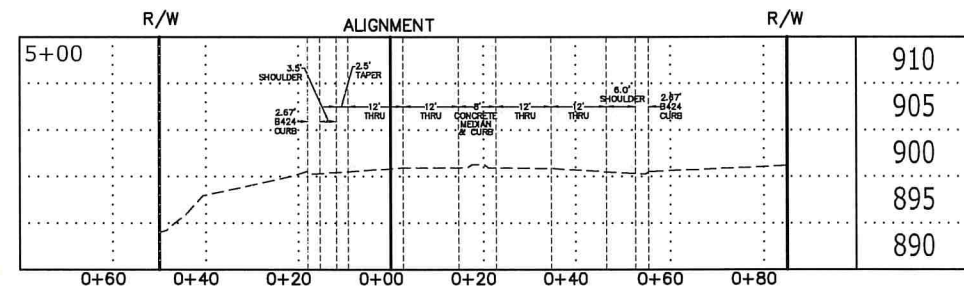
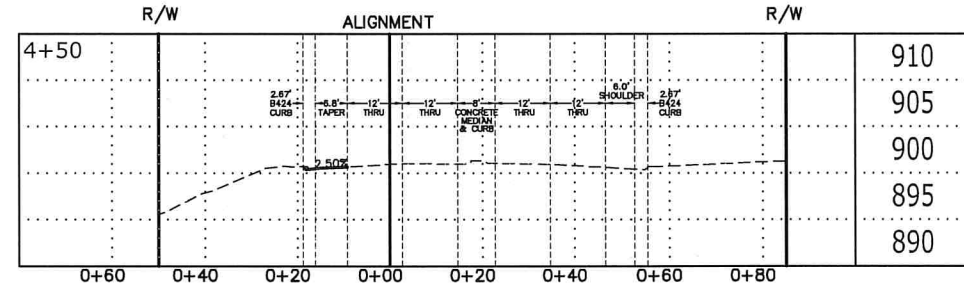
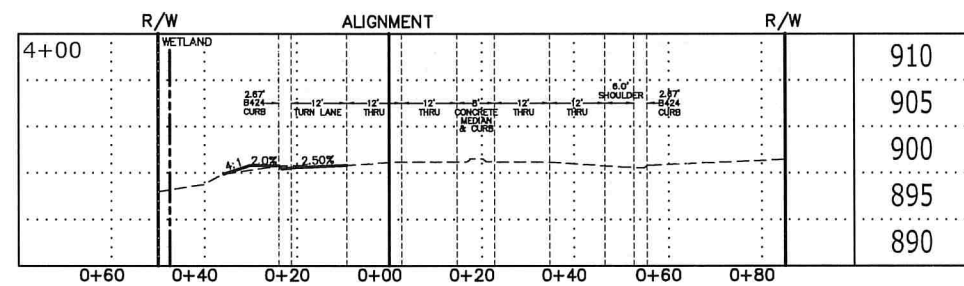
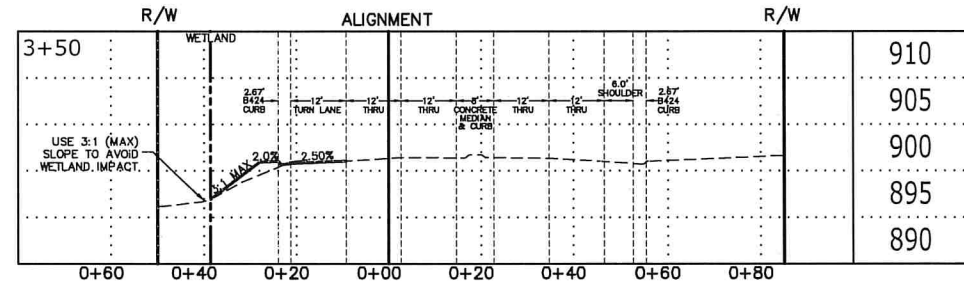
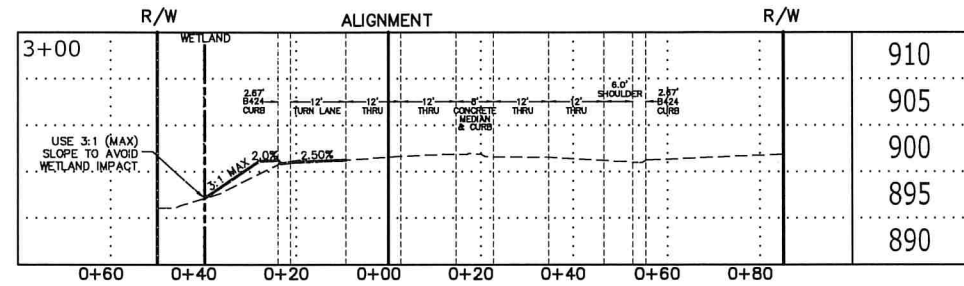
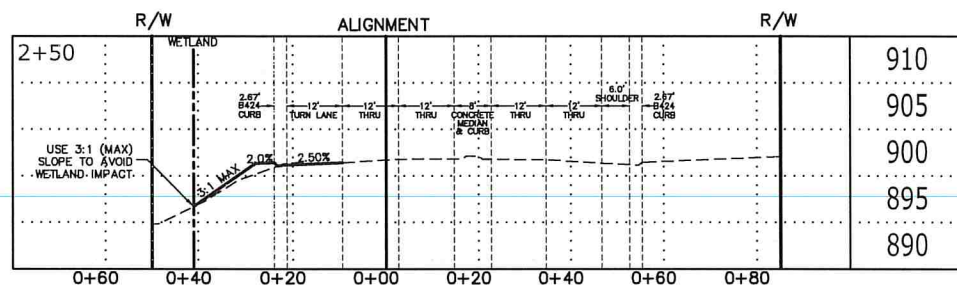
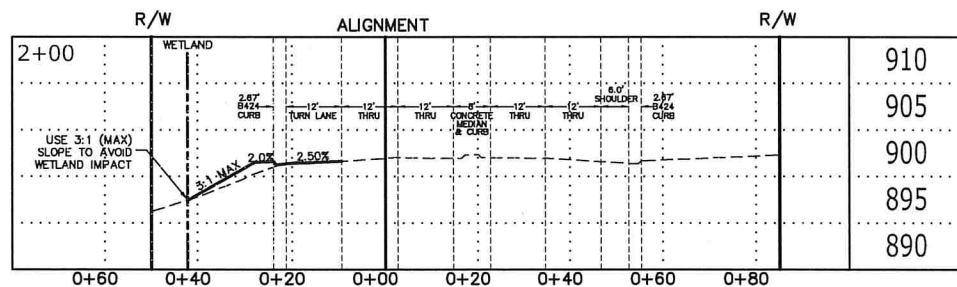
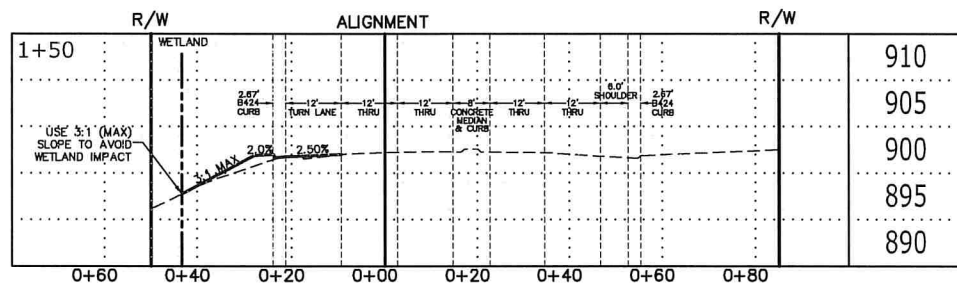
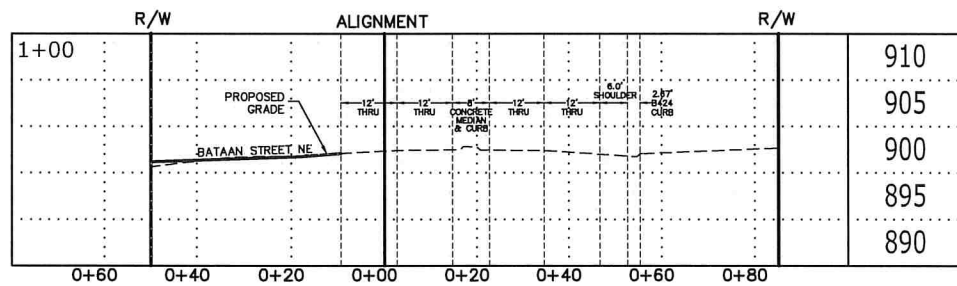
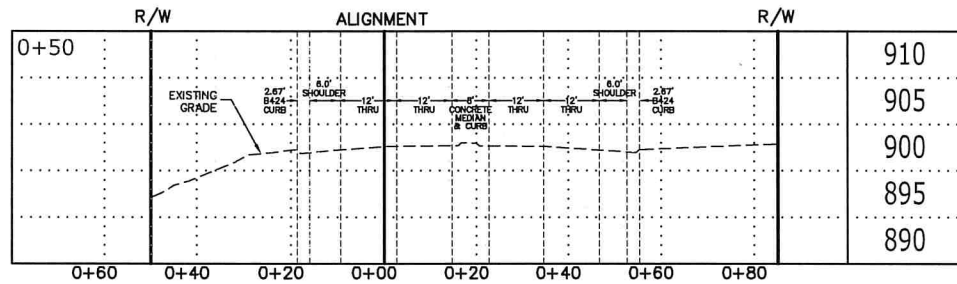
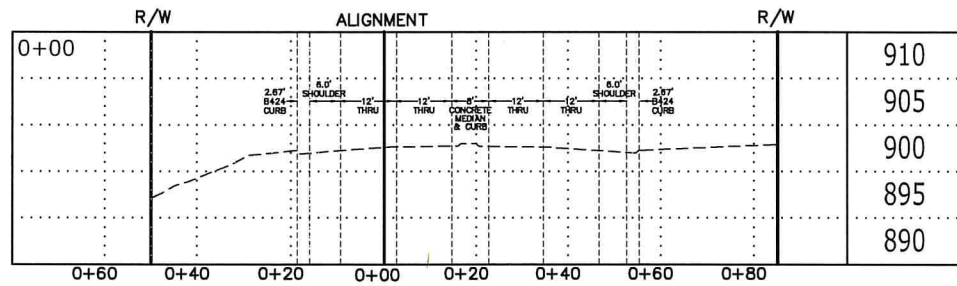


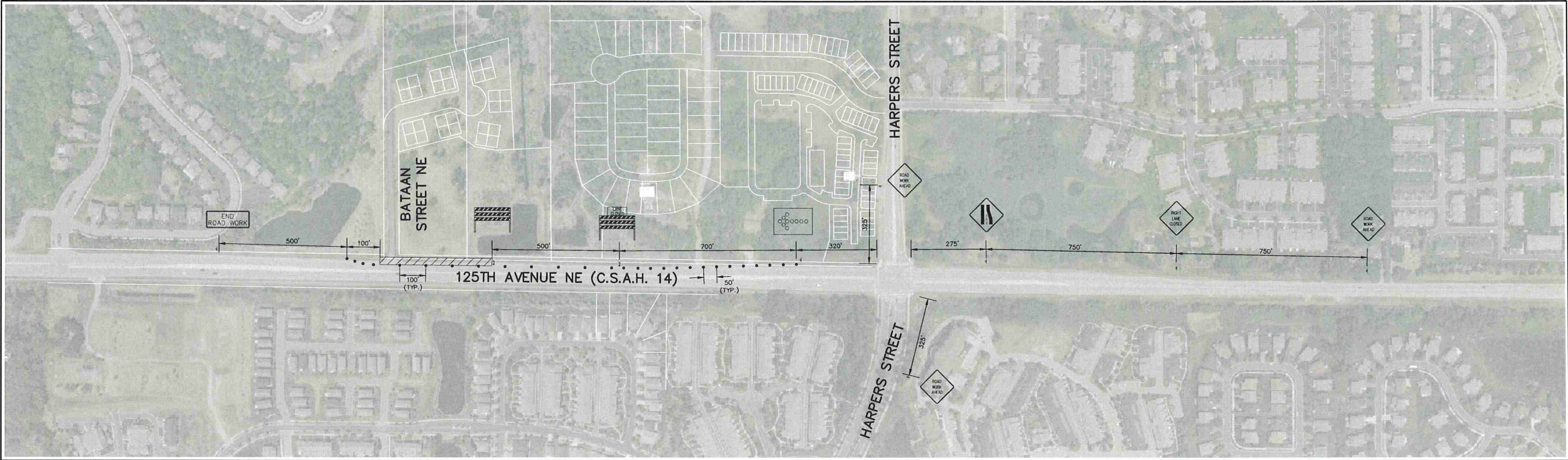
CALL BEFORE YOU DIG

811

Know what's below.
Call before you dig.

The subsurface utility information shown on this plan is utility Quality Level D. This quality level was determined according to the guidelines of CI/ASCE 38-02, entitled "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data."



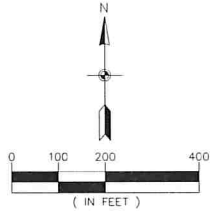


SIGN SCHEDULE			
SIGN	QUANTITY	SIGN	QUANTITY
	3		1
	1		1
	1		1
	1		

LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	---
EASEMENT LINE	---
CURB LINE	---
BITUMINOUS	---
CONCRETE	---
CONSTRUCTION AREA	---
TRAFFIC CONES	---
SIGN	---

NOTES:

- INTERMITTENT SIGNS SHALL BE USED FOR LOOSE GRAVEL, UNEVEN LANES, BUMP, ETC.
- LANE WIDTHS MINIMUM 10'.
- CONTRACTOR TO COMPLY WITH MnDOT LONGITUDINAL DROP OFF GUIDELINES



CALL BEFORE YOU DIG

811

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CARLSON MCCAIN

ENGINEERING
SURVEYING
ENVIRONMENTAL

3890 PHEASANT RIDGE DR NE
SUITE 100
BLAINE, MN 55449
TEL 763.489.7900
FAX 763.489.7959
CARLSONMCCAIN.COM

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

Print Name: Aaron D. Briski, P.E.
Signature:
Date: 4/26/23 License #: 57811

Drawn: GJS
Designed: ADB
Date: 4/26/23

Revisions:
1. 6/15/23 per ACHD comments

HERBST RANCH INVESTMENTS, LLC.
3122 - 117th Avenue NE
Blaine, MN 55449

MEADOWLAND ESTATES WEST
Blaine, Minnesota

TRAFFIC CONTROL PLAN

T6
of
T6