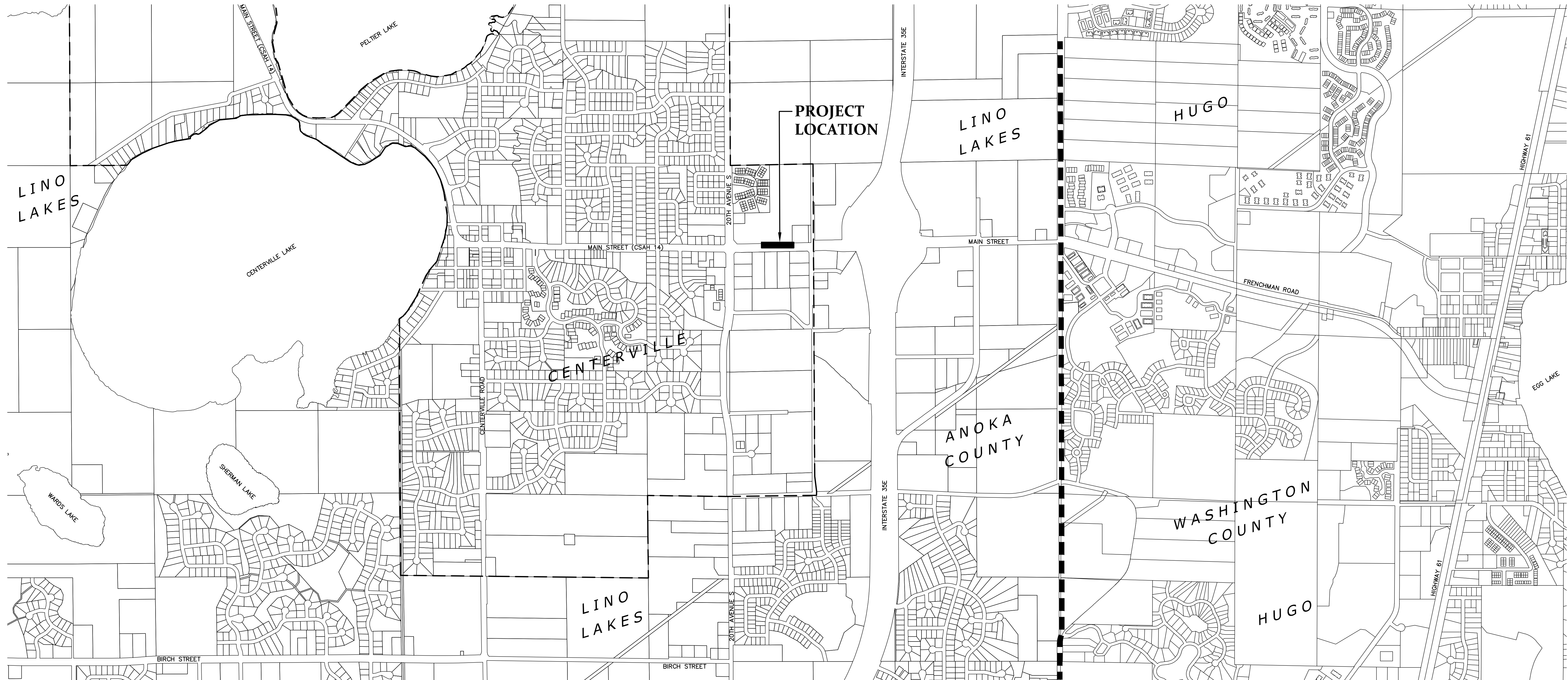


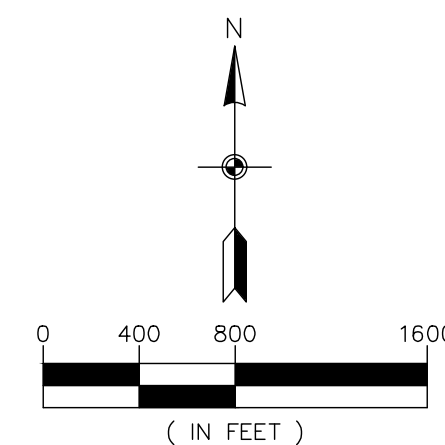
KWIK TRIP STORE #1182

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



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
- T7-T8. ADA PEDESTRIAN RAMP DETAILS



APPROVED: CENTERVILLE CITY ENGINEER	DATE	APPROVED: ANOKA COUNTY ENGINEER	DATE
-------------------------------------	------	---------------------------------	------



ENGINEERING
SURVEYING
ENVIRONMENTAL

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SUITE 100
BLAINE, MN 55449
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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: Joseph T. Radach, P.E.
Signature: *J. T. Radach*
Date: 10/29/21 License #: 45889

Drawn: KRO
Designed: JTR
Date: 10/29/21

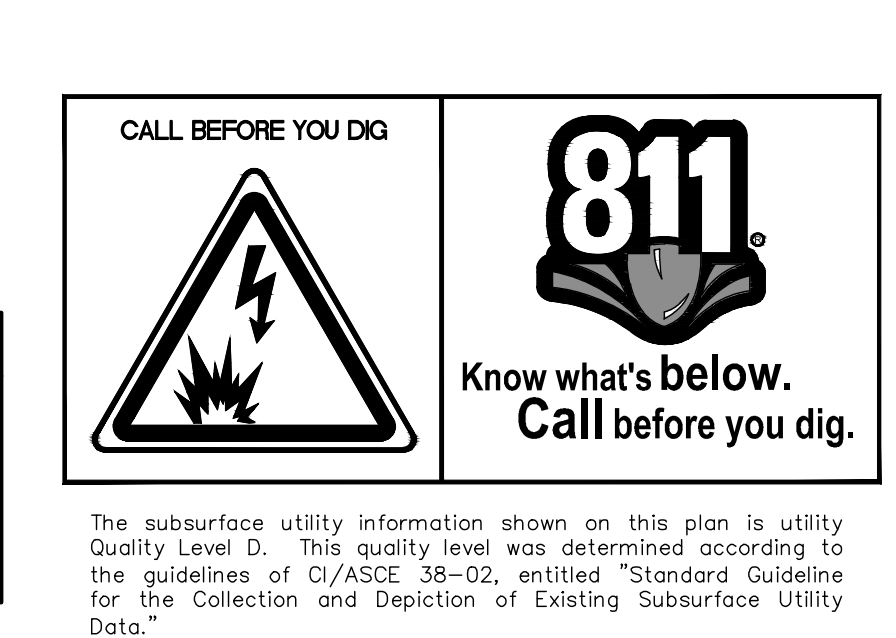
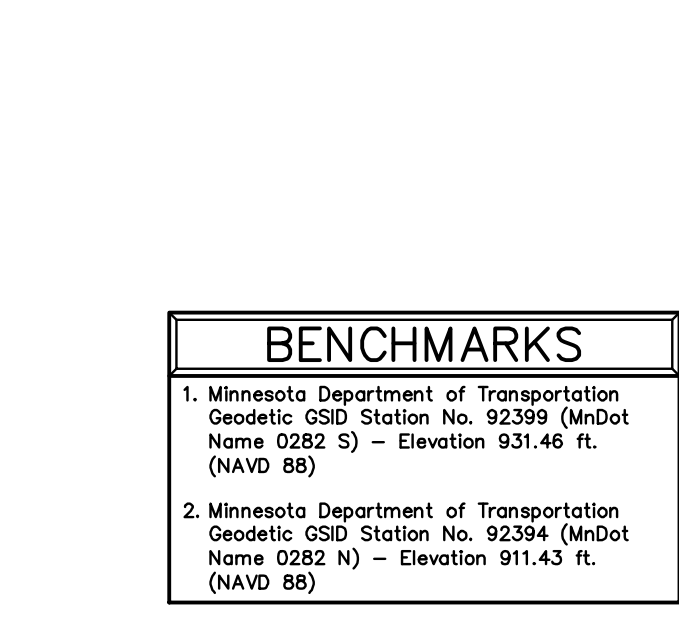
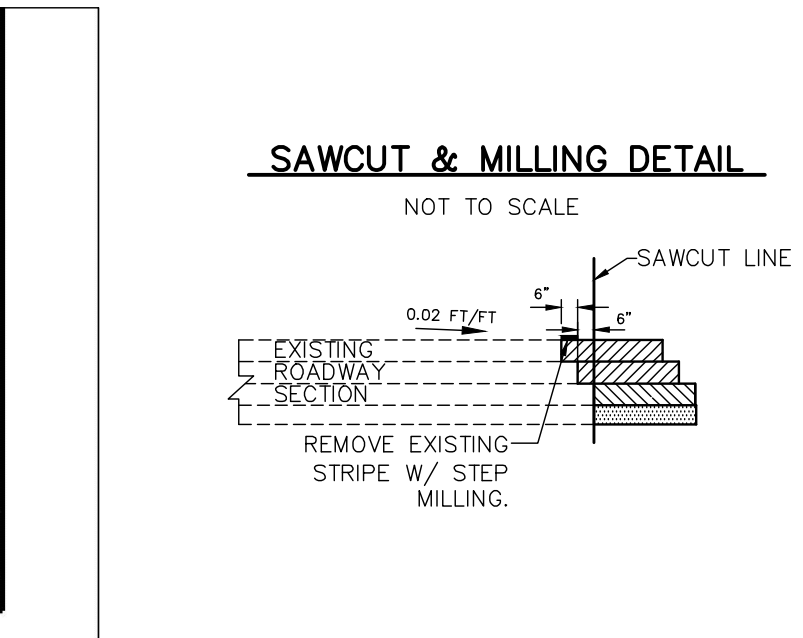
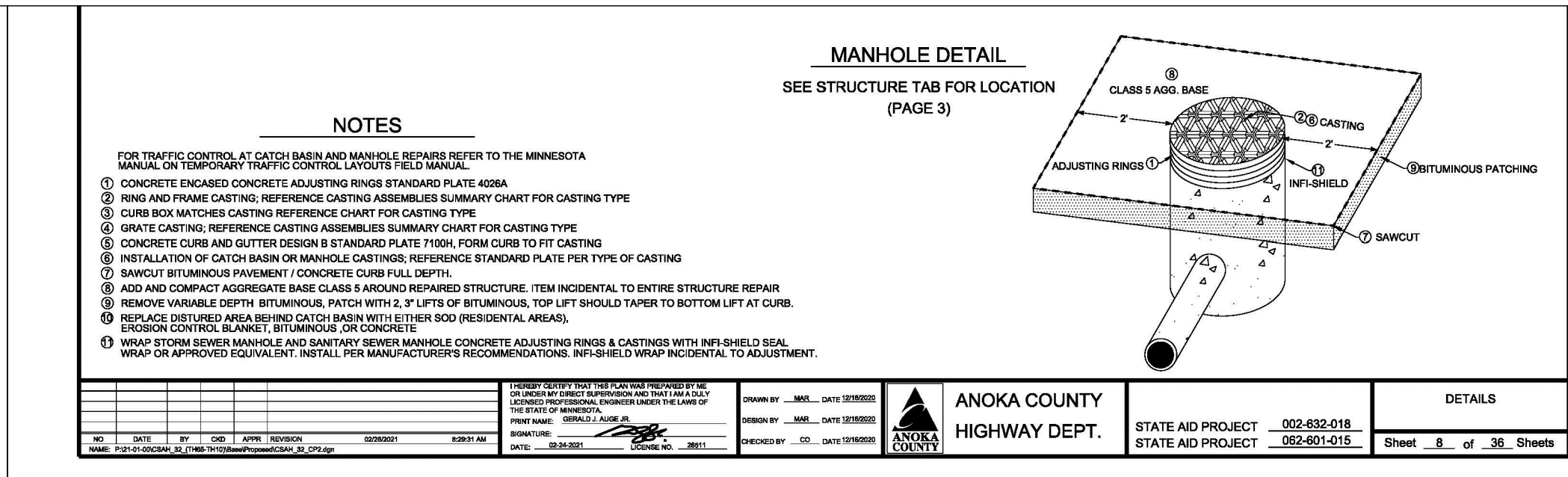
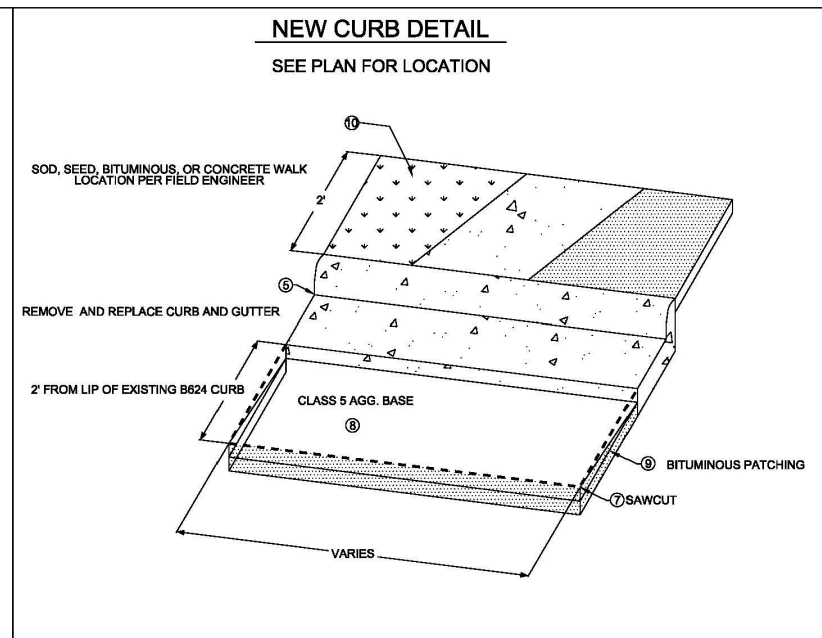
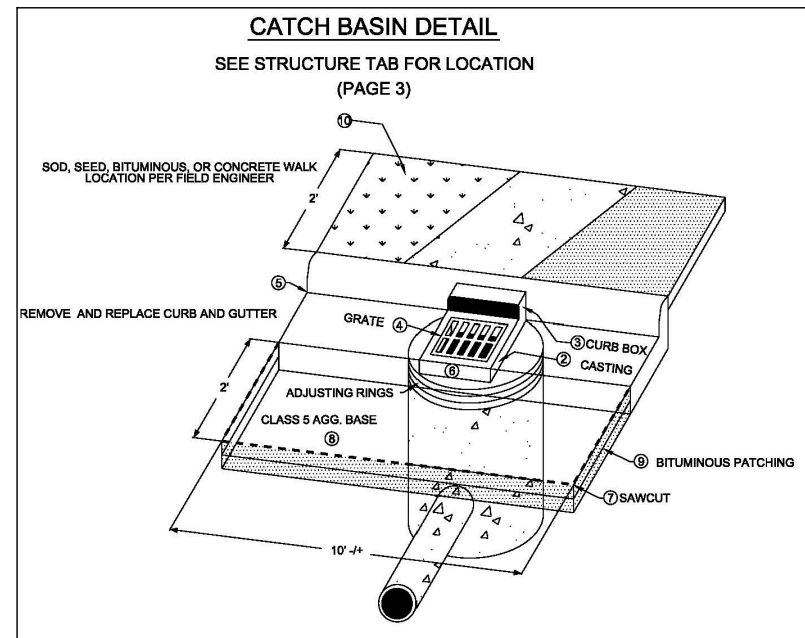
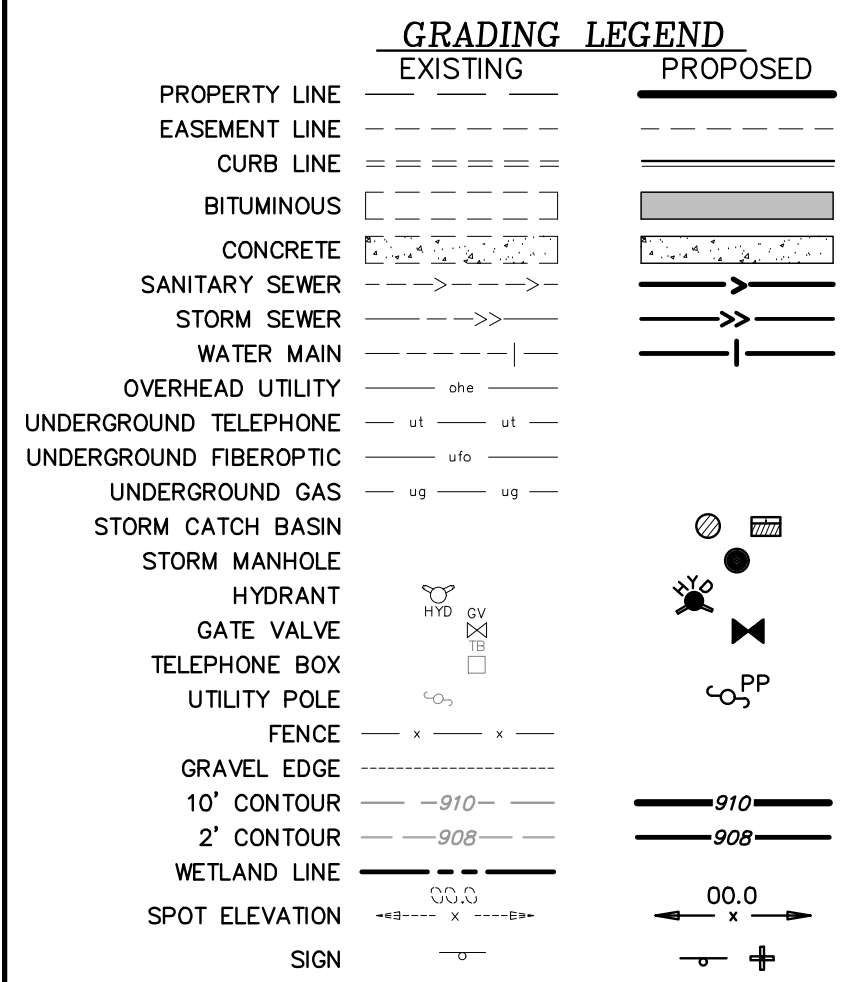
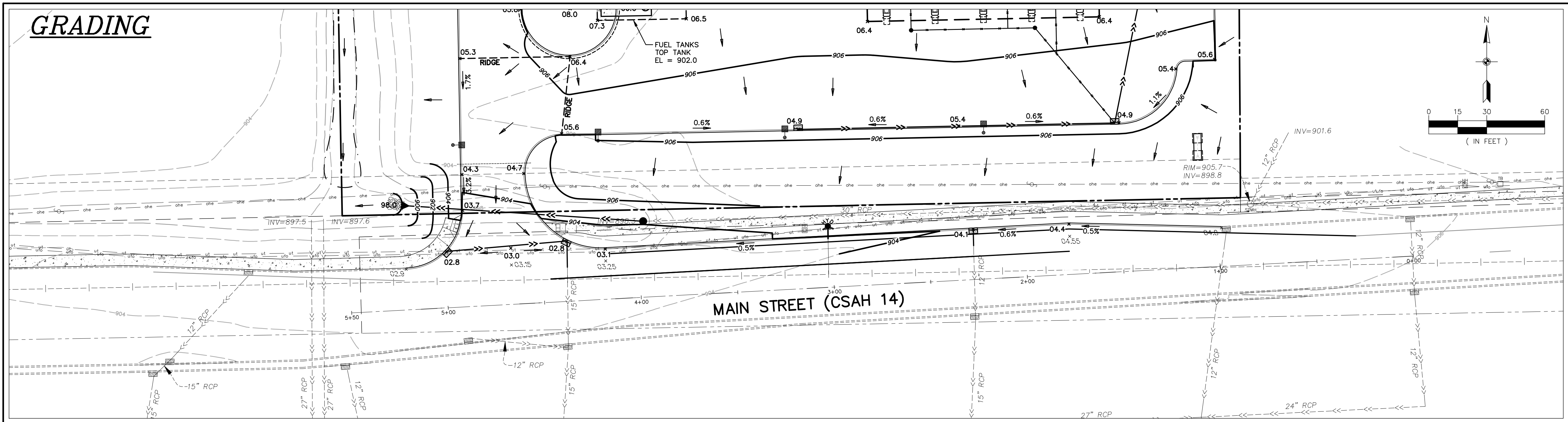
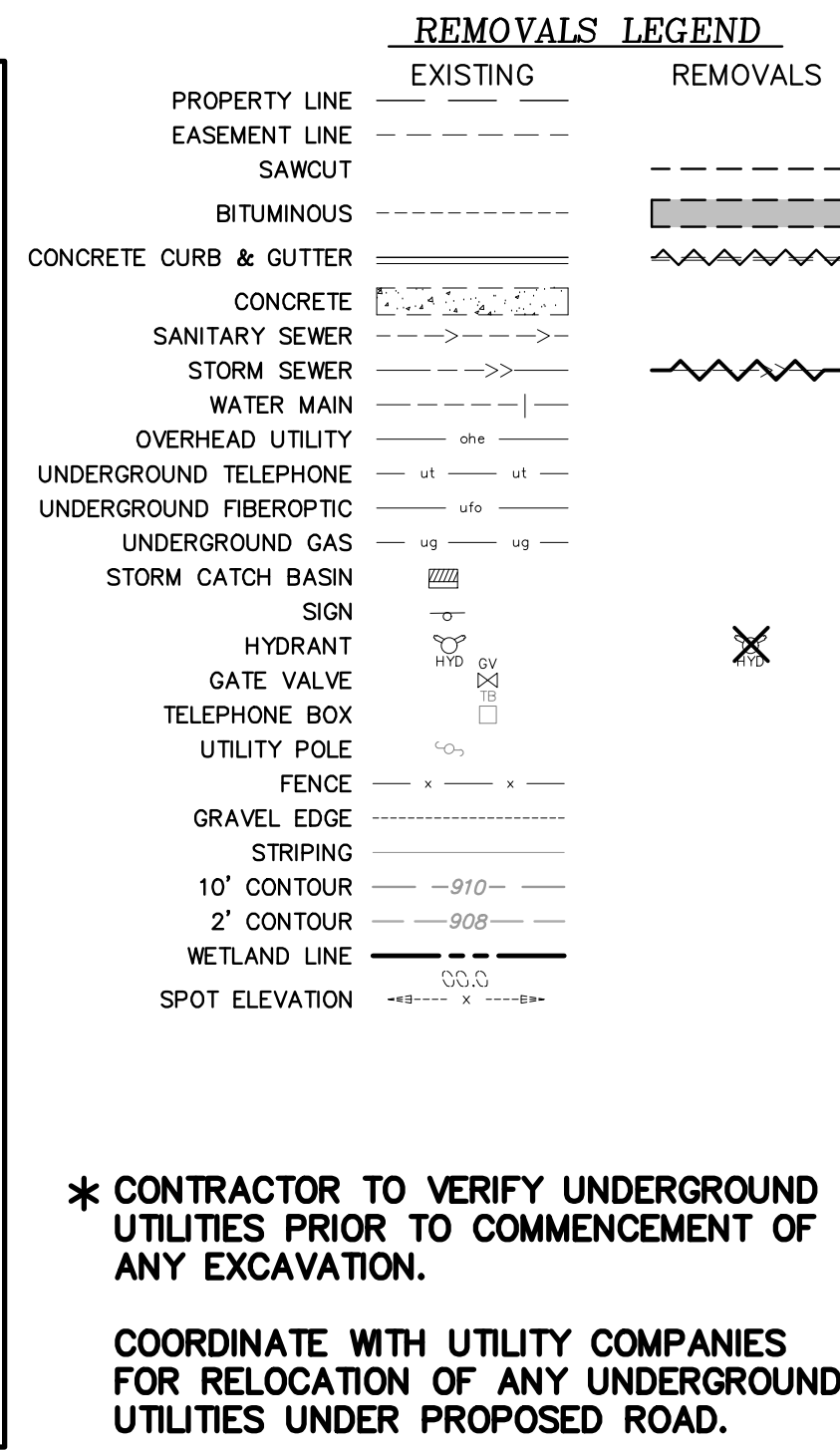
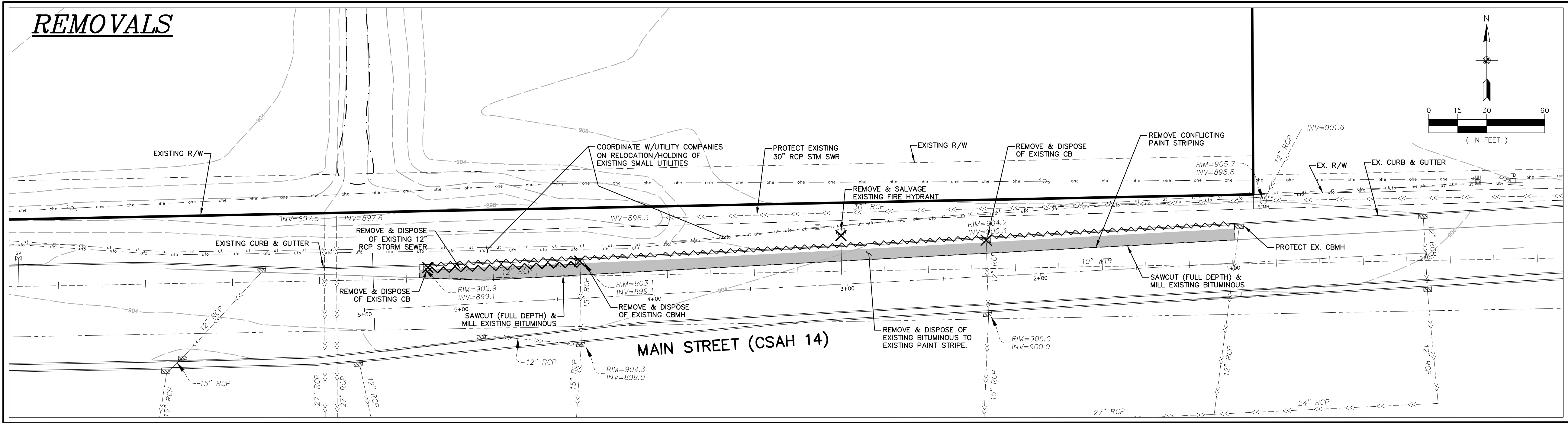
Revisions:
1. 1/5/22 per County Comments.
2. 2/9/22 per County Comments.
3. 3/9/22 Revise Sheets T7 & T8.
4. 3/16/22 Revise Sheets T2 & T3.

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COVER SHEET

T1
of
8



[illegible]

	EXISTING	PROPOSED
PROPERTY LINE	=====	=====
EASEMENT LINE	=====	=====
CURB LINE	=====	=====
		FULL SECTION
		=====
BITUMINOUS	[-----]	[-----]
CONCRETE	[-----]	[-----]
SANITARY SEWER	====>====>====>	====>====>====>
STORM SEWER	====>>====>>	====>>====>>
WATER MAIN	===== =====	===== =====
OVERHEAD UTILITY	===== ohe	===== ohe
UNDERGROUND TELEPHONE	===== ut ----- ut	===== ut ----- ut
UNDERGROUND FIBEROPTIC	===== ufo	===== ufo
UNDERGROUND GAS	===== ug ----- ug	===== ug ----- ug
STORM CATCH BASIN	===== FES	===== FES
STORM MANHOLE	===== MH	===== MH
HYDRANT	===== HD	===== HD
GATE VALVE	===== GV	===== GV
TELEPHONE BOX	===== TB	===== TB
UTILITY POLE	===== P	===== P
FENCE	===== x ----- x	===== x ----- x
STRIPING	=====	=====
WETLAND LINE	=====	=====
SIGN	===== -	===== -
TREE LINE	=====	=====

NOT TO SCALE

Plan view of a road cross-section. The top section shows lane widths: 8' Concrete Median & Curb, 12' Thru Lane, 12' Thru Lane, 12' Right Turn Lane, 6' Clear Zone, 5' Conc. Swik, and a variable section to the R/W. The bottom section shows: 8' Concrete Median & Curb, 12' Thru Lane, 12' Thru Lane, 6' Bit. Shoulder, and a variable section to the R/W. A circular inset shows a cross-section of the pavement structure with layers: 2.0" Type 12.5 SPWEB440F Bituminous Wear Course, 2.0" Type 12.5 SPWEB440F Bituminous Tack Coat, 2.0" Type 12.5 SPNWB430B Bituminous Non-Wear Course, 2.0" Type 12.5 SPNWB430B Bituminous Tack Coat, 2.0" Type 12.5 SPNWB430B Bituminous Non-Wear Course, and 14" Class 5 Aggregate Base. A 5' concrete sidewalk is shown on the right.

8' Concrete Median & Curb

12' Thru Lane

12' Thru Lane

12' Right Turn Lane

6' Clear Zone

5' Conc. Swik

Varies

R/W

8' Concrete Median & Curb

12' Thru Lane

12' Thru Lane

6' Bit. Shoulder

VARIES

R/W

SLOPE VARIES

2.68% - 2.0%

2%

5' CONCRETE SIDEWALK

B424 CONCRETE CURB & GUTTER

SAWCUT/MILL LINE

***PAVEMENT SECTION**
(PER MN/DOT 2360)

2.0"-TYPE 12.5 SPWEB440F BITUMINOUS WEAR COURSE

2.0"-TYPE 12.5 SPWEB440F BITUMINOUS TACK COAT

2.0"-TYPE 12.5 SPNWB430B BITUMINOUS NON-WEAR COURSE

2.0"-TYPE 12.5 SPNWB430B BITUMINOUS TACK COAT

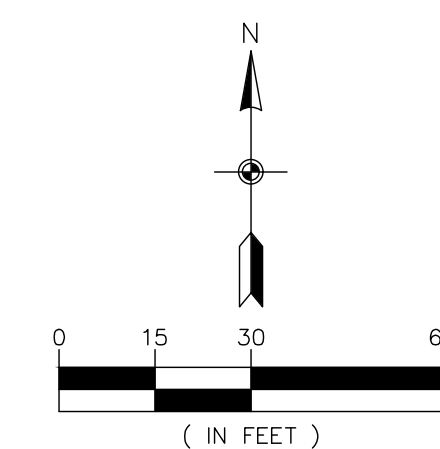
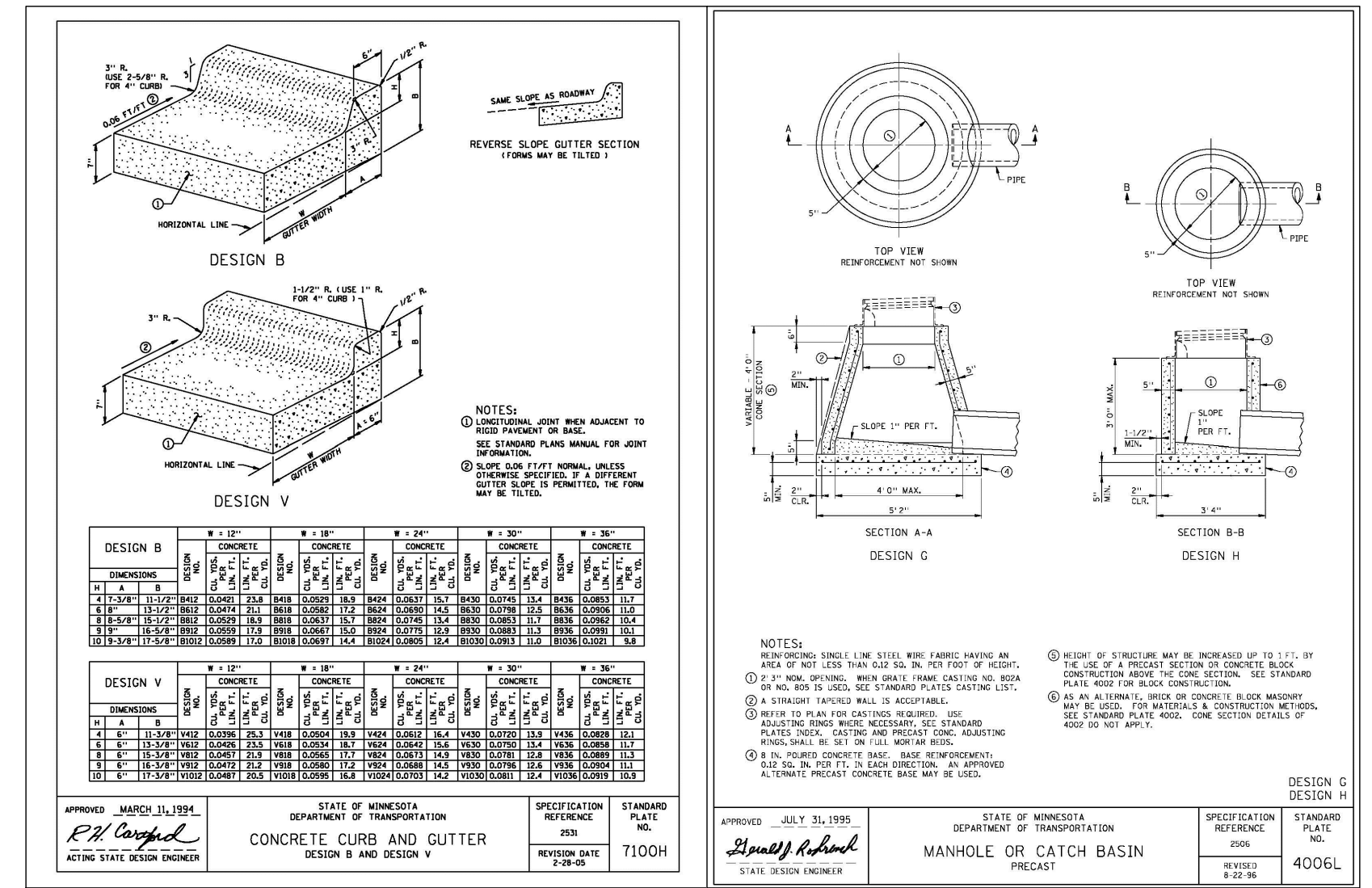
2.0"-TYPE 12.5 SPNWB430B BITUMINOUS NON-WEAR COURSE

14"-CLASS 5 AGGREGATE BASE

***VERIFY EXISTING PAVEMENT SECTION**

1. ALL GRADES ARE TO FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
2. GOVERNING SPECIFICATIONS SHALL BE THE LATEST EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION"
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES AND ALL PERMANENT SIGNING & MARKINGS SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, LATEST EDITION"
4. CONTRACTOR SHALL NOTIFY ANOKA COUNTY HIGHWAY DEPARTMENT AND SUBMIT TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO PERFORMING ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
5. CONTRACTOR SHALL REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
6. ALL TURN LANE STRIPING SHALL BE COMPLETED USING EPOXY PAINT.
7. CONTRACTOR SHALL COORDINATE WORK AROUND AND RELOCATION OF SMALL UTILITIES.
8. CONTRACTOR TO CONTACT ANOKA COUNTY HIGHWAY DEPARTMENT 48 HOURS BEFORE STRIPING CONSTRUCTION.

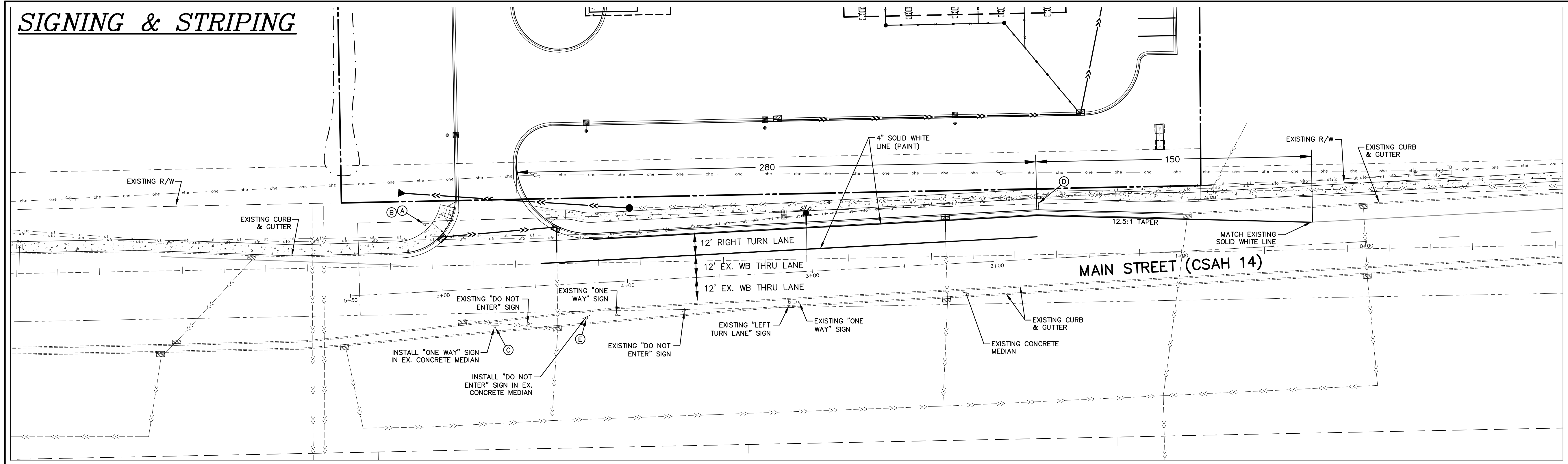
===== B424 CONCRETE CURB & GUTTER
===== B612 CONCRETE CURB & GUTTER



1. Minnesota Department of Transportation
Geodetic GSID Station No. 92399 (MnDot
Name 0282 S) – Elevation 931.46 ft.
(NAVD 88)
2. Minnesota Department of Transportation
Geodetic GSID Station No. 92394 (MnDot
Name 0282 N) – Elevation 911.43 ft.
(NAVD 88)



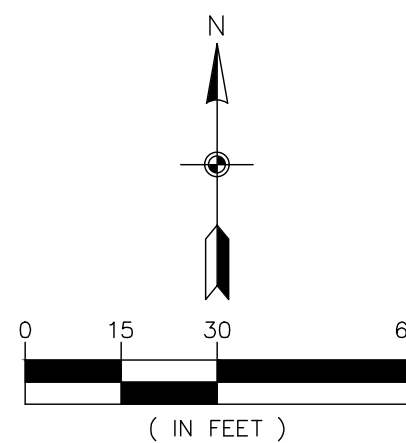
Know what's **below**.
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LEGEND	
EXISTING	PROPOSED
PROPERTY LINE	=====
EASEMENT LINE	=====
CURB LINE	=====
BITUMINOUS GRAVEL	=====
CONCRETE	=====
SANITARY SEWER	=====
STORM SEWER	=====
WATER MAIN	=====
OVERHEAD UTILITY	=====
UNDERGROUND TELEPHONE	=====
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' SHALL GOVERN AS WELL AS THE CITY OF BLAINE SPECIFICATIONS.
 - 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 PAINT (WATER BLASTED).
 - 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: 4006L, 9000E, 4129G, 4154B, 4160D, 9102E

SIGN SCHEDULE			
SIGN	SIGN NO.	SIZE	QUANTITY
(A) STOP	R1-1	30" X 30" (WHITE ON RED)	(INCLUDED IN SITE PLANS)
(B) ONE WAY	R6-1R	36" X 12" (BLACK ON WHITE)	1
(C) ONE WAY	R6-1R	48" X 18" (BLACK ON WHITE)	1
(D) RIGHT TURN LANE	R3-7	30" X 30" (BLACK ON WHITE)	1
(E) DO NOT ENTER	R5-1	36" X 36" (RED ON WHITE)	1



BENCHMARKS
1. Minnesota Department of Transportation Geodetic GSID Station No. 92399 (MnDot Name 0282 S) - Elevation 931.46 ft. (NAVD 88)
2. Minnesota Department of Transportation Geodetic GSID Station No. 92394 (MnDot Name 0282 N) - Elevation 911.43 ft. (NAVD 88)



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."



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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: Joseph T. Radach, P.E.
Signature: *Joe T. Radach*
Date: 10/29/21 License #: 45889

Drawn: KRO
Designed: JTR
Date: 10/29/21

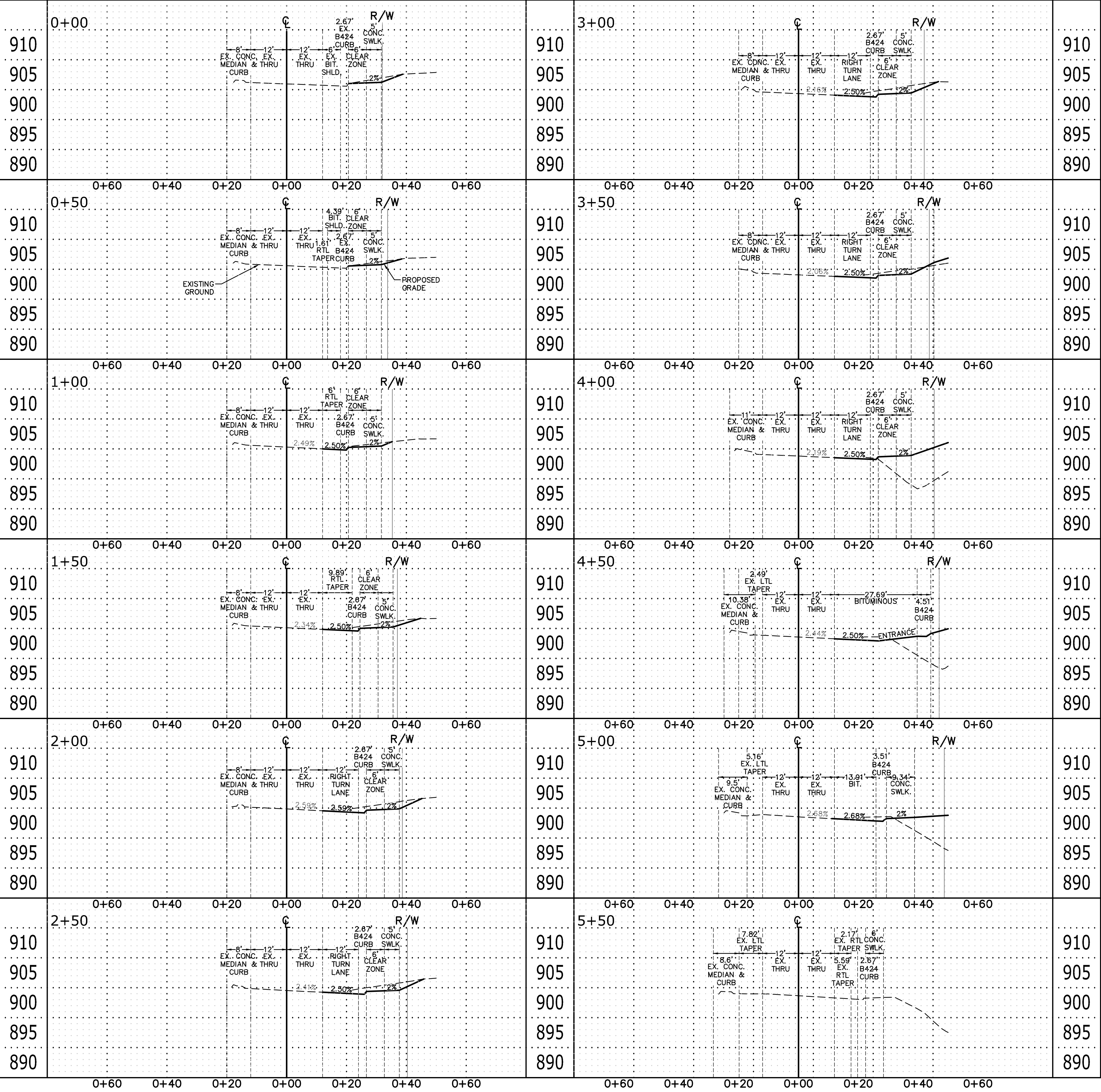
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1. 1/5/22 per County Comments.
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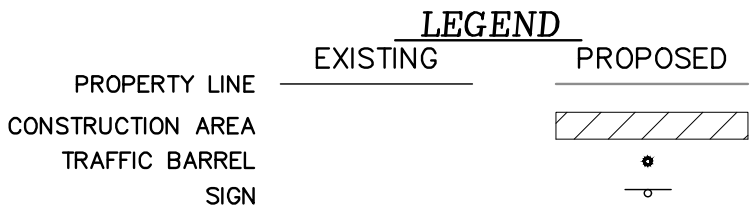
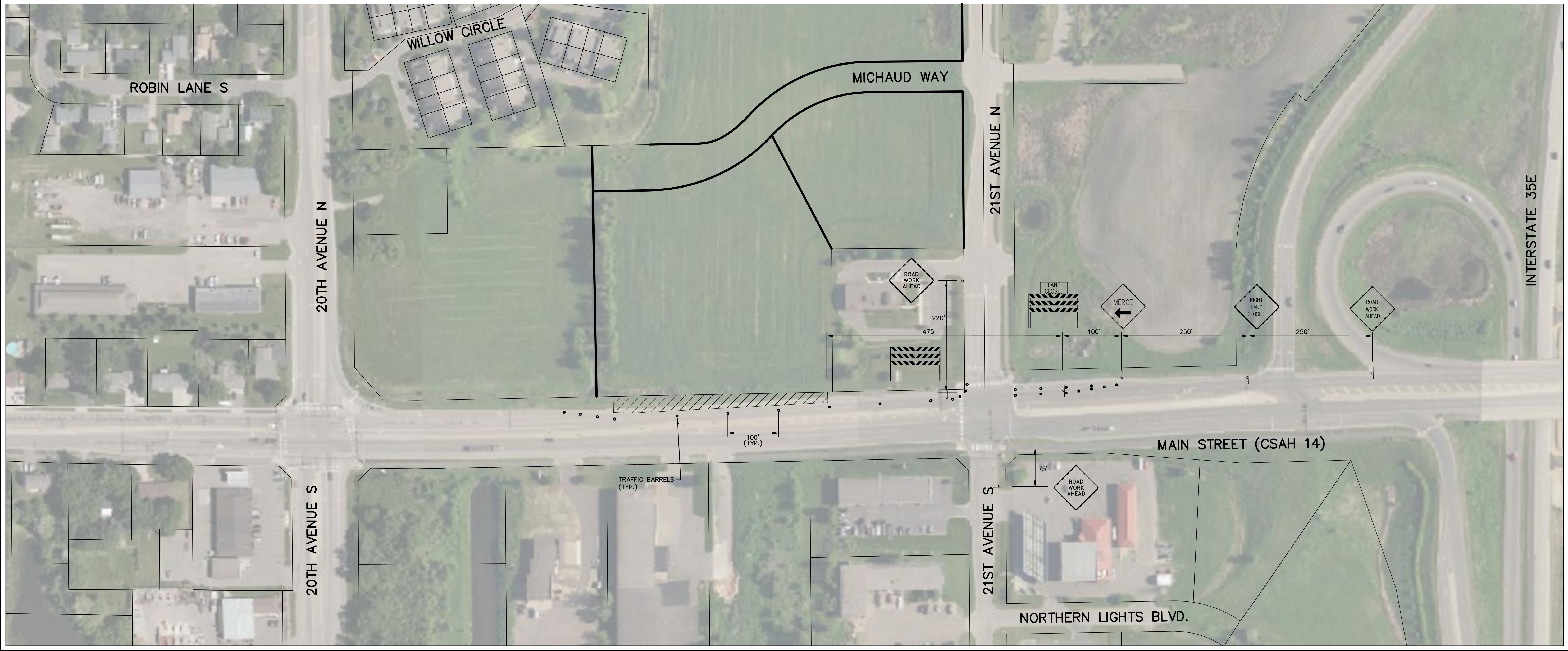
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La Crosse, WI 54602-2107

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Centerville, MN

SIGNING & STRIPING PLAN

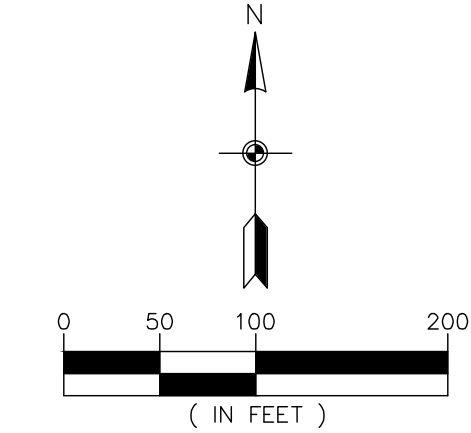
T4
of
8





SIGN SCHEDULE	
SIGN	QUANTITY
	3
	1
	1
	1
	1

- TURN LANE 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. (J-BARRIER MIGHT BE NEEDED)
 - CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL SIGNS AND CHANNELIZERS AS NEEDED.
 - LANE CLOSURE WILL BE ALLOWED FOR A MAXIMUM OF ONE WEEK (NOT INCLUDING WEEKENDS). IF A LANE CLOSURE IS NEEDED AFTER THE 5 DAYS, A TEMPORARY LANE CLOSURE SHALL BE IMPLEMENTED DURING CONSTRUCTION ACTIVITIES AND TAKEN DOWN AT THE END OF EACH DAY/WEEKENDS AND A SHOULDER CLOSURE SHALL BE IMPLEMENTED.



BENCHMARKS
1. Minnesota Department of Transportation Geodetic GSID Station No. 92399 (MnDot Name 0282 S) - Elevation 931.46 ft. (NAVD 88)
2. Minnesota Department of Transportation Geodetic GSID Station No. 92394 (MnDot Name 0282 N) - Elevation 911.43 ft. (NAVD 88)

CALL BEFORE YOU DIG

811

Know what's below.
Call before you dig.

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Signature:

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Drawn: KRO

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Revisions:
1. 1/5/22 per County Comments.
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Centerville, MN

TRAFFIC CONTROL PLAN

T6
of
8

