ENGINEER'S REPORT

11th Street & 11th Street South Utility and Street Improvements

Coulee Road to Wisconsin Street
State Project Number: 8999-00-87

City of Hudson
St. Croix, Wisconsin
February 2025

Prepared by:

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Project No. R08814028

11^{th} Street & 11^{th} Street South Utility and Street Improvements
City of Hudson

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CERTIFICATION

I hereby certify that this 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 Wisconsin.

Charles D. Schwartz, PE

Charles D. Schwartz, PE

Date: February 17, 2025 License Number: 34507

STATEMENT OF BENEFIT
This project benefits the properties proposed to be assessed. According to Wisconsin State Statutes 66.0703, the City of Hudson intends to exercise its police power to collect special assessments for this project. Attached to this report in Appendix A is the schedule of proposed assessments.

CHAPTER 1 – INTRODUCTION

1.1 INTRODUCTION

The City of Hudson is committed to maintaining its infrastructure in a condition that allows for the safe and efficient movement of people and goods within the community.

This proposed improvement project includes 11th Street and 11th Street South from Coulee Road to Wisconsin Street. Laurel Avenue separates 11th Street from 11th Street South. Both road segments serve as an important piece of the City's roadway system. They span 0.63 miles from Coulee Road to Wisconsin Street and are a north-south two-lane asphaltic road. The roadway is classified as an urban minor arterial and accommodates approximately 4,000 vehicles per day. For the purposes of this report, both road segments will be referred to as 11th Street unless further distinction between the two is necessary.

The corridor is experiencing several problems that need to be addressed. The existing 11th Street pavement is showing signs of distress including alligator, longitudinal and transverse cracking, and potholes. These cracks allow water and deicing chemicals to enter the pavement and accelerate the deterioration of the roadway corridor. The 2023 PASER rating is 4, which falls into the poor category. The existing pavement exhibits deficiencies beyond what typical annual maintenance can address.

In addition to the pavement deficiencies, the existing on-street pedestrian/bicycle accommodations along 11th Street do not include dedicated pedestrian facilities or meet American with Disability Act (ADA) standards. A portion of the water main along the project also needs to be updated.

In summary, this report recommends resurfacing the roadway by means of pulverizing and relaying the existing pavement and base layers, replacing the watermain from Laurel Avenue to Summer Street, adding a separated shared-use path, and implementing traffic calming and signage improvements to resolve the existing pedestrian safety issues and significant roadway deterioration.

CHAPTER 2 – RECOMMENDATIONS AND ALTERNATIVES

2.1 ROADWAY IMPROVEMENTS

Eleventh (11th) Street is an urban minor arterial roadway that serves approximately 4,000 vehicles per day and the pavement is nearing the end of its useful life. The alternatives below were considered in determining the proper solution for the project.

2.2 MILL AND OVERLAY (NOT FEASIBLE)

A Mill & Overlay was considered for this project, but due to the reduction in roadway width to improve traffic calming, the water main replacement below road pavement, and crown shift required for the project this alternative was considered infeasible for the scope of this project. A pavement design analysis was also done to determine if a mill and overlay would be a viable option structurally, but with the projected ADT and truck percentages it was determined that a mill and overlay would not meet the required structural number for design.

2.3 PULVERIZE AND RELAY (PREFERRED – GREEN STREET TO SUMMER STREET AND LAUREL AVENUE TO WISCONSIN STREET

For this alternative, the existing curb and gutter will remain on the east side of the road with the exception of some spot replacement. The existing asphalt and underlying material will be pulverized to a depth of 8 inches from 100 feet south of Green Street to Summer Street and Laurel Avenue to Wisconsin Street, which are the segments of the project without water main replacement and with the thickest existing pavement sections. The proposed asphaltic pavement will consist of a 2-inch upper layer of 5 MT 58-34 H over a 3-inch lower layer of 3 MT 58-28 S. The proposed base will consist of the remaining 3-inch of pulverized material over the existing 7-8.5 inches of Base Aggregate Dense 1¼-Inch.

When doing a pulverize and relay it is desirable to pulverize approximately 3 inches into the existing base material to allow for adequate mixing of the pavement and base material to be reused as a proposed base. It was decided to pulverize 8 inches into the existing roadway to meet this criterion through the thickest existing pavement sections recorded in the soil boring data. This leaves between 7-8.5 inches of existing base material and 8 inches of pulverized material to be distributed across the pavement section under the new shared-use path, new curb on the west side of the corridor, and for compacting the final base layer before asphalt paving.

2.4 PAVEMENT REPLACEMENT (PREFERRED – SUMMER STREET TO LAUREL AVENUE)

For this alternative, the curb and gutter on both sides will fully be replaced in this section due to condition and water main service replacements. The existing asphalt and underlying material will be excavated and replaced to a depth of 15 inches (entire pavement structure) from 100 feet south of Summer Street to Laurel Avenue, where there will be a water main replacement. Because the water main is under the roadway core in this segment and the existing base depth is too thin structurally, completing a mill/overlay or pulverize and relay operation is not realistic due to the excavation required for this construction, and the entire pavement section will need to be replaced. The proposed asphaltic pavement would consist of a 2-inch upper layer of 5 MT 58-34 H over a 3-inch lower layer of 3 MT 58-28 S. The proposed base would consist of 10 inches of Base Aggregate Dense 1 ¼-Inch or any remaining pulverized material.

2.5 PEDESTRIAN/BICYCLE IMPROVEMENTS AND TRAFFIC CALMING

Existing pedestrian accommodations along 11th Street & 11th Street South in the City of Hudson do not include a dedicated sidewalk or trail that meets current Americans with Disabilities Act (ADA) standards. Eleventh (11th) Street between Wisconsin Street and Coulee Road is listed in the City of Hudson's Bicycle and Pedestrian Master Plan as a primary tier for network improvements in terms of public health and safety due to the existing traffic volume, so pedestrian and bicycle improvements are deemed critical elements to improve on the corridor.

Multiple alternatives were considered for traffic calming and pedestrian accommodations along the corridor including different combinations of the addition of sidewalk, bicycle lanes, on street parking, bump-outs, and a shared-use path. A public open house was held on January 16, 2024, to receive feedback on the road design, including pedestrian facilities and traffic calming. The alternative selected is described below. Additionally, school signage was included in the plans based on MUTCD recommendations and WisDOT guidance.

2.6 SHARED-USE PATH (PREFERRED)

City staff carefully weighed the alternatives considering the project budget, assessments, maintenance, and pedestrian safety. The shared-use path on the west side of the project, in addition to a road diet (i.e. reducing the roadway width) were deemed as the most appropriate options to improve the pedestrian, vehicle, and bicycle safety along the corridor. This reduction in roadway width includes removing on-street parking on the west side of the street to facilitate traffic calming and to accommodate the grading of the shared-use path. This shorter corridor width provides a shorter crossing length for pedestrians and bicyclists as well as slowing traffic, both of which improve safety. The shared-use path also created a corridor without right-of-way impacts, and allowed for a good compromise for both bicycles and pedestrians since corridor width was limited. This option also includes a proposed pulverize and relay construction operation for the reuse of the existing pavement as base under the new trail which allows for less waste and a more economical project.

2.7 DRAINAGE AND UTILITY IMPROVEMENTS

Other than manhole casting adjustments, no sanitary sewer improvements are part of this project's scope. The city's Utility Department is planning a sanitary sewer lining project that will be bid and completed before this project. Water main replacement is part of the design, as the existing water facilities between Summer Street and Laurel Avenue are outdated and undersized. There are some minor storm sewer adjustments due to curb modifications. Through the watermain replacement stretch, the full pavement section will be replaced due to the excavation required for the utility work. No new right-of-way will need to be acquired. This alternative meets the purpose and need of the project and improves the system life of these utility systems.

CHAPTER 3 – FUNDING

3.1 CAPITAL IMPROVEMENT PLAN

Capital Improvement Plan (CIP) funding for the City's portion of the project was identified in the City's 2023-2027 Infrastructure CIP. Separate city utility funds will be used for the storm sewer, sanitary sewer, and water main improvements.

3.2 STATE/FEDERAL GRANTS (STP-URBAN)

The City received a WisDOT STP-Urban local program grant to split the participating project costs by 80% federal and 20% local (city). Most of the construction activities of this project are eligible under this grant. The shared-use path, sanitary sewer, and water main will be considered non-participating and 100% funded by the city.

3.3 SPECIAL ASSESSMENTS

The City of Hudson's special assessment policy applies to the project activities according to the following schedule:

- Curb and Gutter - 50% of the cost of replacement, including removal of existing curb and gutter and replacement with new concrete curb and gutter. For corner lots, if the smaller length of the property (the "short side") is on 11th Street, the curb will be assessed at 50%. If the larger length of the property (the "long side") is on 11th Street, the curb and gutter will be assessed at 25% for the first 140 linear feet of curb & gutter, after 140 linear feet the curb and gutter will be assessed at 50%.
- Driveway Replacement – 100% of the cost of replacement, including removal of the existing driveway and replacement with a new concrete or bituminous driveway from curb and gutter to property line.
- Sidewalks – Where sidewalk is to be installed on only one side of the street, the new (first time) installation shall be assessed 100% against the adjoining property. Replacements shall be assessed 50% against the adjoining property. For sidewalks other than residential, the property shall be assessed full cost. Four-plex and larger dwellings are also assessed full cost. Sidewalk connections used to access an individual property will be assessed 100%.

The assessments include the material and labor costs of the construction of each assessable item and may include a share of the contractor mobilization and engineering costs. Additionally, Planning and Administration Fees are collected to offset the time spent by office administration staff to prepare project-related work, such as project accounting, project correspondence, public hearings, and other work not directly related to the engineering tasks associated with the project. The Planning and Administration Fees are calculated as follows:

- 1.5% on first $250,000 of total assessable costs
- 1.3% on next $750,000
- 1.1% on next $1,000,000

- 1.0% on next $1,000,000
- 0.8% on next $1,000,000
- 0.6% on remainder

Since this project has an estimated assessable cost of under $250,000, the rate used to calculate the Planning and Administration Fees is 1.5%.

A detailed breakdown of the preliminary assessment calculations is provided in **Appendix A**. The assessment amounts utilize the as-bid project costs. The preliminary assessment quantities may change based on field conditions during construction. Final project costs and assessments will be determined at the time of project close-out.

The assessment amounts in this report are preliminary estimates only and are subject to change based on the actual amount of each bid item constructed on the project as applicable to each property.

This project benefits the properties proposed to be assessed. According to Wisconsin State Statutes 66.0703, the City of Hudson intends to exercise its police power to collect special assessments for this project.

The estimated overall project cost is shown in **Appendix B**.

A summary of the project funding is as follows:

Expenses:

Construction Costs (As-Bid Costs)	$1,573,356
Design Engineering	$202,941
Construction Engineering and Contingency @ 15%	$236,003
Total Project Costs:	$2,012,300

Funding:

Special Assessments (Estimated)	$122,092
Infrastructure CIP Funds	$365,181
Utility Funds	$337,880
Design Engineering – Federal Portion	$155,686
Federal Funding Limit	$1,031,461
Total Project Funding:	$2,012,300

CHAPTER 4 –SUMMARY

4.1 SUMMARY

The recommended project improvements include the following:

1. Pavement replacement or resurfacing from Coulee Road to Wisconsin Street.
2. Full curb and gutter replacement on the west side of the road and various locations on the east side.
3. Providing traffic calming through signage, pavement markings and eliminating on-street parking.
4. Adding a shared-use path along the west side of the corridor to improve pedestrian safety.
5. Replacing the water main between Summer Street and Laurel Avenue.

The final plans for the project can be seen in **Appendix.**

APPENDIX A

Preliminary Assessment Calculations

11TH STREET & 11TH STREET SOUTH UTILITY AND STREET IMPROVEMENTS
COULEE ROAD TO WISCONSIN STREET

NO.	PROPERTY OWNER NAME	PROPERTY ADDRESS	PARCEL ID	TOTAL ASSESSABLE COST
1	Casa Mia LLC	735 11Th St S	236-1635-01-000	$683.63
2	Bleskachek Family Irrevocable Trust	735 11Th St S	236-1635-01-000	$683.63
3	Jake Weber	735 11Th St S	236-1635-01-000	$683.63
4	Jennifer Lamson	735 11Th St S	236-1635-01-000	$683.63
5	Tiffany A Norton	735 11Th St S	236-1635-01-000	$683.63
6	Ruth Peterson	735 11Th St S	236-1635-01-000	$683.63
7	Sandy K Helman	737 11Th St S	236-1635-01-000	$683.63
8	Michelle Elsner	737 11Th St S	236-1635-01-000	$683.63
9	Martin K Taylor	737 11Th St S	236-1635-01-000	$683.63
10	Gail Nordstrand Dahlstrom	737 11Th St S	236-1635-01-000	$683.63
11	Drexel H Henderson II FT	737 11Th St S	236-1635-01-000	$683.63
12	Ryan Schultz	737 11Th St S	236-1635-01-000	$683.63
13	Allen R/Karen M Homeier	1006 Colonial Dr	236-1752-00-000	$9,029.06
14	Jason Coverston	701 11Th St S	236-1727-00-000	$159.86
15	Tracy Jones	633 11Th St S	236-1726-00-000	$4,440.28
16	Ronald S Govin	625 11Th St S	236-1725-00-000	$3,585.12
17	Kerry Ann Schmidt	609 11Th St S	236-1634-00-000	$5,149.21
18	Mary Ann Remus	1020 Green St	236-1633-00-000	$5,712.93
19	Andrew A Vorwald	1025 Green St	236-1196-00-000	$834.84
20	Daniel L Hofbauer	515 11Th St S	236-1195-00-000	$834.84
21	Thomas M Gaynor	509 11Th St S	236-1194-00-000	$1,724.12
22	Meredith Blum	505 11Th St S	236-1193-00-000	$2,152.67
23	Jennifer L Hillman	423 11Th St S	236-0118-00-000	$1,060.68
24	Mullikin Revocable Trust	421 11Th St S	236-0117-00-000	$1,015.00
25	Jason T/Catherine C Hoffsommer	415 11Th St S	236-0116-00-000	$1,879.38
26	Casey J Vandusartz	409 11Th St S	236-0115-00-000	$2,050.07
27	Briggan Harris	405 11Th St S	236-0114-00-000	$1,017.03
28	JPW Properties LLC	325 11Th St S	236-0111-00-000	$1,012.72
29	Brianna Sorlien	319 11Th St S	236-0110-00-000	$3,024.19
30	Aaron J & Tara E Richert	313 11Th St S	236-0109-00-000	$2,726.42
31	Gabrielle Crowley	307 11Th St S	236-0108-00-000	$1,949.93
32	Joseph Wilson	303 11Th St S	236-0107-00-000	$1,796.74
33	Adam Oakland	219 11Th St S	236-1597-00-000	$1,492.74
34	Constance Piekarski Rvcbl Trust	213 11Th St S	236-1598-00-000	$1,492.74
35	Matt Ammentorp	203 11Th St S	236-1586-00-000	$1,309.44
36	Matt Ammentorp	203 11Th St S	236-1595-00-000	$1,660.03
37	Headroom Llc	115 11Th St S	236-1568-00-000	$3,448.99
38	Richard D/Leslie A Frazier	111 11Th St S	236-1569-00-000	$3,204.58
39	Katherine A O'Connell	101 11Th St S	236-1567-00-000	$2,229.47
40	City Of Hudson	931 Laurel Ave	236-1549-00-000	$0.00
41	John And Stacie Ramthun Rev Trust	1018 Kinnickinnic St	236-0386-00-000	$2,783.08
42	Donald And Diane Anderson Rev Living Trust	1019 Kinnickinnic St	236-0355-00-000	$2,399.75
43	Deborah C Savadge	1000 Wisconsin St	236-0354-00-000	$1,967.83
44	Harley D/Janis Tr Halverson	710 11Th St S	236-1643-00-000	$3,580.28

11TH STREET & 11TH STREET SOUTH UTILITY AND STREET IMPROVEMENTS
COULEE ROAD TO WISCONSIN STREET

NO.	PROPERTY OWNER NAME	PROPERTY ADDRESS	PARCEL ID	TOTAL ASSESSABLE COST
45	Harley D/Janis Tr Halverson	700 11Th St S	236-1644-00-000	$357.79
46	Marilyn L Larsen	630 11Th St S	236-1645-00-000	$959.18
47	Jason W King	624 11Th St S	236-1646-00-000	$202.75
48	Sarah J Allison	618 11Th St S	236-1642-00-000	$1,133.38
49	Charlene D Sackett	610 11Th St S	236-1641-00-000	$0.00
50	Donald J Buchholz	602 11Th St S	236-1639-00-000	$0.00
51	Peifer Family Ltd Partnership	527 13Th St S	236-1640-00-000	$964.50
52	O'Connell Valley Funeral Home Inc	520 11Th St S	236-1640-01-000	$5,608.32
53	Cheryl & Trent Llc	1103 Summer St	236-0566-00-000	$1,049.51
54	Steven W/Renee J Eickstadt	408 11Th St S	236-0822-00-000	$1,431.15
55	Eliot Motu - shared drive w 330	402 11Th St S	236-0823-00-000	$969.60
56	Grace Hey	330 11Th St S	236-0824-00-000	$969.60
57	Tracey R/Mark F Bishop	326 11Th St S	236-0825-00-000	$1,002.00
58	Frederick J Waltz Ii	310 11Th St S	236-0826-00-000	$1,557.56
59	Kristen A Kelley	306 11Th St S	236-1592-00-000	$994.45
60	Christopher J Turner	300 11Th St S	236-1594-00-000	$1,002.00
61	Gabriella R Thorsen	220 11Th St S	236-1587-00-000	$1,034.40
62	Adam R Tripp	208 11Th St S	236-1593-00-000	$2,016.81
63	Nicholas K Miller	204 11Th St S	236-1588-00-000	$1,291.45
64	Brandy M Steberg	200 11Th St S	236-1611-00-000	$2,065.53
65	Edward J Kotoski	120 11Th St S	236-1612-00-000	$942.37
66	Kevin A/Catherine L Henderson	112 11Th St S	236-1613-00-000	$1,136.76
67	Jamison Langer	108 11Th St S	236-1599-02-000	$1,979.00
68	Paul G/Tiffany J Deziel	1108 Laurel Ave	236-1599-01-000	$1,145.11
69	Keith A Mallek	102 11Th St	236-1551-00-000	$1,964.03
70	Mason R Militano	114 11Th St	236-1550-01-000	$833.44
71	Alexander L Spicher	122 11Th St	236-1550-03-000	$0.00
72	Alane P Wood	130 11Th St	236-1550-02-000	$214.67
73	Paul L Anderson Properties Llc	202 11Th St	236-1780-00-000	$1,092.43
74	Aric A Calkins	206 11Th St	236-1781-00-000	$226.60
75	Paul L Anderson Properties Llc	212 11Th St	236-1782-00-000	$1,486.00
76	Kathleen J Elert Trust	224 11Th St	236-0178-01-000	$1,533.71

TOTAL ASSESSMENT **$122,091.58**

APPENDIX B

As-Bid Project Costs

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Type Of Work: General Constr - No Dominant Work Type

Bidder No.	1	A-1 EXCAVATING LLC	Po Box 90	Bloomer, WI 54724
Bidder No.	2	TOTAL EXCAVATING AND GRADING LLC	141 Hwy 35 N	River Falls, WI 54022
Bidder No.	3	MCCABE CONSTRUCTION, INC.	Po Box 1769	Eau Claire, WI 54703-1769
Bidder No.	4	PEMBER COMPANIES, INC.	N4449-469th Street	Menomonie, WI 54751-5436
Bidder No.	5	HAAS SONS, INC.	203 E. Birch St	Thorp, WI 54771

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1 Bid Price	Bidder No. 1 Amount	Bidder No. 2 Bid Price	Bidder No. 2 Amount	Bidder No. 3 Bid Price	Bidder No. 3 Amount
201.0105	Clearing	STA	8.000	500.00	4,000.00	980.00	7,840.00	1,500.00	12,000.00
201.0205	Grubbing	STA	8.000	1,300.00	10,400.00	660.00	5,280.00	1,030.00	8,240.00
204.0100	Removing Concrete Pavement	SY	150.000	18.00	2,700.00	14.00	2,100.00	9.00	1,350.00
204.0150	Removing Curb & Gutter	LF	5,620.000	3.50	19,670.00	4.50	25,290.00	5.00	28,100.00
204.0155	Removing Concrete Sidewalk	SY	100.000	16.00	1,600.00	6.50	650.00	11.25	1,125.00
204.0210	Removing Manholes	EACH	5.000	700.00	3,500.00	485.00	2,425.00	550.00	2,750.00
204.0220	Removing Inlets	EACH	9.000	500.00	4,500.00	350.00	3,150.00	235.00	2,115.00
204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	247.000	18.00	4,446.00	12.00	2,964.00	20.00	4,940.00
205.0100	Excavation Common	CY	5,551.000	18.00	99,918.00	9.00	49,959.00	19.00	105,469.00
211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 8999-00-87	EACH	1.000	15,000.00	15,000.00	28,000.00	28,000.00	25,000.00	25,000.00
211.0500	Prepare Foundation for Base Aggregate	STA	34.000	440.00	14,960.00	450.00	15,300.00	215.00	7,310.00
213.0100	Finishing Roadway (project) 01. 8999-00-87	EACH	1.000	1,000.00	1,000.00	1,100.00	1,100.00	3,000.00	3,000.00
305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	29.00	580.00	19.00	380.00	28.00	560.00
305.0120	Base Aggregate Dense 1 1/4-Inch	TON	235.000	22.00	5,170.00	17.00	3,995.00	21.00	4,935.00
455.0605	Tack Coat	GAL	670.000	3.50	2,345.00	3.70	2,479.00	3.30	2,211.00
460.2000	Incentive Density HMA Pavement	DOL	2,010.000	1.00	2,010.00	1.00	2,010.00	1.00	2,010.00

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C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1		Bidder No. 2		Bidder No. 3	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
460.5245	HMA Pavement 5 LT 58-34 S	TON	430.000	125.00	53,750.00	133.00	57,190.00	120.00	51,600.00
460.6223	HMA Pavement 3 MT 58-28 S	TON	1,620.000	104.00	168,480.00	109.00	176,580.00	97.97	158,711.40
460.6445	HMA Pavement 5 MT 58-34 H	TON	1,080.000	120.00	129,600.00	128.00	138,240.00	115.68	124,934.40
465.0120	Asphaltic Surface Driveways and Field Entrances	TON	40.000	190.00	7,600.00	196.00	7,840.00	176.59	7,063.60
601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	20.000	75.00	1,500.00	24.00	480.00	70.00	1,400.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	5,775.000	20.00	115,500.00	20.00	115,500.00	18.75	108,281.25
601.0600	Concrete Curb Pedestrian	LF	101.000	50.00	5,050.00	24.00	2,424.00	45.00	4,545.00
602.0405	Concrete Sidewalk 4-Inch	SF	4,180.000	9.00	37,620.00	6.35	26,543.00	8.25	34,485.00
602.0415	Concrete Sidewalk 6-Inch	SF	690.000	9.50	6,555.00	12.40	8,556.00	8.80	6,072.00
602.0505	Curb Ramp Detectable Warning Field Yellow	SF	258.000	58.00	14,964.00	78.00	20,124.00	55.00	14,190.00
602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	92.520	73.00	6,753.96	78.00	7,216.56	70.00	6,476.40
602.0810	Concrete Driveway 6-Inch	SY	379.000	77.00	29,183.00	85.00	32,215.00	74.00	28,046.00
602.0815	Concrete Driveway 7-Inch	SY	123.000	79.00	9,717.00	99.00	12,177.00	75.50	9,286.50
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	47.000	98.00	4,606.00	70.00	3,290.00	75.00	3,525.00
608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	20.000	98.00	1,960.00	70.00	1,400.00	85.00	1,700.00
608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	225.000	84.00	18,900.00	78.00	17,550.00	75.00	16,875.00
611.0530	Manhole Covers Type J	EACH	6.000	1,000.00	6,000.00	600.00	3,600.00	900.00	5,400.00
611.0624	Inlet Covers Type H	EACH	11.000	1,250.00	13,750.00	825.00	9,075.00	900.00	9,900.00
611.2004	Manholes 4-FT Diameter	EACH	3.000	3,200.00	9,600.00	3,100.00	9,300.00	3,100.00	9,300.00
611.2005	Manholes 5-FT Diameter	EACH	1.000	5,600.00	5,600.00	4,800.00	4,800.00	5,000.00	5,000.00

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix

C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St

LOC STR, St Croix County

C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1 Bid Price	Bidder No. 1 Amount	Bidder No. 2 Bid Price	Bidder No. 2 Amount	Bidder No. 3 Bid Price	Bidder No. 3 Amount
611.2006	Manholes 6-FT Diameter	EACH	2.000	13,100.00	26,200.00	7,300.00	14,600.00	6,800.00	13,600.00
611.3004	Inlets 4-FT Diameter	EACH	1.000	3,500.00	3,500.00	3,100.00	3,100.00	3,150.00	3,150.00
611.3230	Inlets 2x3-FT	EACH	10.000	2,000.00	20,000.00	1,860.00	18,600.00	2,000.00	20,000.00
611.8110	Adjusting Manhole Covers	EACH	6.000	600.00	3,600.00	485.00	2,910.00	675.00	4,050.00
611.8115	Adjusting Inlet Covers	EACH	5.000	600.00	3,000.00	485.00	2,425.00	500.00	2,500.00
612.0902.S	Insulation Board Polystyrene (inch) 01. 4-Inch	SY	25.000	60.00	1,500.00	85.00	2,125.00	41.00	1,025.00
618.0100	Maintenance and Repair of Haul Roads (project) 01. 8999-00-87	EACH	1.000	100.00	100.00	1,100.00	1,100.00	1.00	1.00
619.1000	Mobilization	EACH	1.000	112,000.00	112,000.00	115,000.00	115,000.00	115,000.00	115,000.00
624.0100	Water	MGAL	94.300	35.00	3,300.50	36.00	3,394.80	42.00	3,960.60
625.0100	Topsoil	SY	3,200.000	6.00	19,200.00	5.25	16,800.00	10.00	32,000.00
628.1504	Silt Fence	LF	2,200.000	1.85	4,070.00	1.95	4,290.00	1.75	3,850.00
628.1520	Silt Fence Maintenance	LF	2,200.000	0.01	22.00	0.02	44.00	0.01	22.00
628.1905	Mobilizations Erosion Control	EACH	6.000	105.00	630.00	115.00	690.00	100.00	600.00
628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	53.00	159.00	100.00	300.00	50.00	150.00
628.2008	Erosion Mat Urban Class I Type B	SY	2,000.000	1.80	3,600.00	1.90	3,800.00	1.70	3,400.00
628.6505	Soil Stabilizer Type A	ACRE	0.350	8,000.00	2,800.00	8,400.00	2,940.00	7,600.00	2,660.00
628.7005	Inlet Protection Type A	EACH	29.000	105.00	3,045.00	115.00	3,335.00	100.00	2,900.00
628.7015	Inlet Protection Type C	EACH	18.000	46.00	828.00	50.00	900.00	43.00	774.00
628.7560	Tracking Pads	EACH	2.000	100.00	200.00	1,700.00	3,400.00	2,500.00	5,000.00
629.0210	Fertilizer Type B	CWT	3.000	126.00	378.00	130.00	390.00	120.00	360.00
630.0140	Seeding Mixture No. 40	LB	55.000	19.00	1,045.00	20.00	1,100.00	17.50	962.50
630.0200	Seeding Temporary	LB	80.000	3.00	240.00	3.30	264.00	3.00	240.00

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1 Bid Price	Bidder No. 1 Amount	Bidder No. 2 Bid Price	Bidder No. 2 Amount	Bidder No. 3 Bid Price	Bidder No. 3 Amount
630.0500	Seed Water	MGAL	165.000	0.01	1.65	0.02	3.30	0.01	1.65
634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	14.000	265.00	3,710.00	280.00	3,920.00	251.00	3,514.00
634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	13.000	285.00	3,705.00	300.00	3,900.00	269.00	3,497.00
634.0818	Posts Tubular Steel 2x2-Inch X 18-FT	EACH	4.000	300.00	1,200.00	315.00	1,260.00	285.00	1,140.00
637.2210	Signs Type II Reflective H	SF	155.380	17.00	2,641.46	17.70	2,750.23	15.90	2,470.54
637.2230	Signs Type II Reflective F	SF	103.000	20.00	2,060.00	21.10	2,173.30	18.95	1,951.85
638.2102	Moving Signs Type II	EACH	1.000	80.00	80.00	83.50	83.50	75.00	75.00
638.2602	Removing Signs Type II	EACH	74.000	16.00	1,184.00	16.70	1,235.80	15.00	1,110.00
638.3000	Removing Small Sign Supports	EACH	37.000	16.00	592.00	16.70	617.90	15.00	555.00
638.4000	Moving Small Sign Supports	EACH	1.000	80.00	80.00	83.50	83.50	75.00	75.00
642.5001	Field Office Type B	EACH	1.000	9,000.00	9,000.00	15,500.00	15,500.00	10,000.00	10,000.00
643.0410	Traffic Control Barricades Type II	DAY	330.000	0.50	165.00	1.15	379.50	0.30	99.00
643.0420	Traffic Control Barricades Type III	DAY	650.000	0.70	455.00	1.70	1,105.00	0.55	357.50
643.0705	Traffic Control Warning Lights Type A	DAY	1,620.000	0.10	162.00	0.30	486.00	0.08	129.60
643.0900	Traffic Control Signs	DAY	10,860.000	0.50	5,430.00	0.55	5,973.00	0.43	4,669.80
643.1000	Traffic Control Signs Fixed Message	SF	36.000	11.50	414.00	22.25	801.00	10.90	392.40
643.5000	Traffic Control	EACH	1.000	5,500.00	5,500.00	4,100.00	4,100.00	1,975.00	1,975.00
646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	5,850.000	2.10	12,285.00	2.20	12,870.00	1.99	11,641.50
646.4020	Marking Line Epoxy 10-Inch	LF	125.000	3.75	468.75	4.00	500.00	3.50	437.50
646.5020	Marking Arrow Epoxy	EACH	4.000	375.00	1,500.00	390.00	1,560.00	350.00	1,400.00
646.5120	Marking Word Epoxy	EACH	16.000	325.00	5,200.00	332.00	5,312.00	299.00	4,784.00

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87

Location: St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1		Bidder No. 2		Bidder No. 3	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
646.6120	Marking Stop Line Epoxy 18-Inch	LF	62.000	20.00	1,240.00	20.00	1,240.00	18.00	1,116.00
646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	480.000	15.00	7,200.00	15.50	7,440.00	14.00	6,720.00
646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	300.000	20.00	6,000.00	21.15	6,345.00	19.00	5,700.00
646.8120	Marking Curb Epoxy	LF	400.000	8.00	3,200.00	7.80	3,120.00	7.00	2,800.00
650.4000	Construction Staking Storm Sewer	EACH	17.000	205.00	3,485.00	225.00	3,825.00	200.00	3,400.00
650.4500	Construction Staking Subgrade	LF	1,790.000	0.01	17.90	1.00	1,790.00	0.01	17.90
650.5000	Construction Staking Base	LF	3,334.000	0.55	1,833.70	1.00	3,334.00	0.50	1,667.00
650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	5,930.000	1.00	5,930.00	1.00	5,930.00	0.80	4,744.00
650.8000	Construction Staking Resurfacing Reference	LF	1,542.000	0.10	154.20	0.25	385.50	0.10	154.20
650.9000	Construction Staking Curb Ramps	EACH	25.000	55.00	1,375.00	60.00	1,500.00	50.00	1,250.00
650.9500	Construction Staking Sidewalk (project) 01. 8999-00-87	EACH	1.000	1,100.00	1,100.00	3,500.00	3,500.00	1,000.00	1,000.00
650.9911	Construction Staking Supplemental Control (project) 01. 8999-00-87	EACH	1.000	1,100.00	1,100.00	1,100.00	1,100.00	1,000.00	1,000.00
650.9920	Construction Staking Slope Stakes	LF	3,334.000	0.90	3,000.60	1.00	3,334.00	0.75	2,500.50
690.0150	Sawing Asphalt	LF	1,069.000	2.00	2,138.00	2.00	2,138.00	1.95	2,084.55
690.0250	Sawing Concrete	LF	365.000	4.00	1,460.00	3.25	1,186.25	2.95	1,076.75
740.0440	Incentive IRI Ride	DOL	1,262.880	1.00	1,262.88	1.00	1,262.88	1.00	1,262.88
ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	800.000	5.00	4,000.00	5.00	4,000.00	5.00	4,000.00
ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	5.00	3,000.00	5.00	3,000.00	5.00	3,000.00
SPV.0060	Special 01. Adjust Frame & Ring Casting	EACH	12.000	600.00	7,200.00	500.00	6,000.00	750.00	9,000.00

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87

Location: St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1		Bidder No. 2		Bidder No. 3	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
SPV.0060	Special 02. Salvaged and Install Hydrant and Valve Box	EACH	2.000	3,250.00	6,500.00	1,800.00	3,600.00	3,100.00	6,200.00
SPV.0060	Special 03. Remove Gate Valve & Box	EACH	4.000	300.00	1,200.00	400.00	1,600.00	130.00	520.00
SPV.0060	Special 04. Connect To Existing Water Main	EACH	2.000	2,950.00	5,900.00	1,600.00	3,200.00	2,250.00	4,500.00
SPV.0060	Special 05. 45° Bend 8-Inch	EACH	4.000	1,250.00	5,000.00	800.00	3,200.00	550.00	2,200.00
SPV.0060	Special 06. Gate Valve 8-Inch	EACH	4.000	3,850.00	15,400.00	3,800.00	15,200.00	3,000.00	12,000.00
SPV.0060	Special 07. Tee 8-Inch x 6-Inch	EACH	3.000	1,700.00	5,100.00	1,200.00	3,600.00	850.00	2,550.00
SPV.0060	Special 08. Hydrant	EACH	1.000	6,675.00	6,675.00	6,500.00	6,500.00	5,850.00	5,850.00
SPV.0060	Special 09. Gate Valve 6-Inch	EACH	1.000	2,850.00	2,850.00	2,800.00	2,800.00	2,350.00	2,350.00
SPV.0060	Special 10. Curb Stop 1-Inch	EACH	33.000	440.00	14,520.00	775.00	25,575.00	350.00	11,550.00
SPV.0060	Special 11. Corp Stop 1-Inch	EACH	33.000	300.00	9,900.00	300.00	9,900.00	185.00	6,105.00
SPV.0060	Special 12. Watermain Testing	EACH	1.000	1,500.00	1,500.00	5,500.00	5,500.00	4,200.00	4,200.00
SPV.0060	Special 13. Temporary Water	EACH	1.000	10,000.00	10,000.00	10,200.00	10,200.00	15,500.00	15,500.00
SPV.0060	Special 14. Adjusting Water Valve	EACH	12.000	250.00	3,000.00	250.00	3,000.00	275.00	3,300.00
SPV.0060	Special 15. Connect To Existing Storm Sewer	EACH	15.000	1,500.00	22,500.00	650.00	9,750.00	1,150.00	17,250.00
SPV.0060	Special 16. Remove, Salvage, and Reinstall Modular Block Retaining Wall	EACH	1.000	1,500.00	1,500.00	1,580.00	1,580.00	1,420.00	1,420.00
SPV.0060	Special 17. Street Name Sign	EACH	20.000	140.00	2,800.00	150.00	3,000.00	133.00	2,660.00
SPV.0060	Special 18. Remove Block	EACH	1.000	1,500.00	1,500.00	830.00	830.00	750.00	750.00
SPV.0090	Special 01. Remove Watermain	LF	1,321.000	8.00	10,568.00	7.00	9,247.00	15.00	19,815.00
SPV.0090	Special 02. Remove Water Service	LF	783.000	8.00	6,264.00	9.00	7,047.00	1.00	783.00
SPV.0090	Special 03. Ductile Iron Water Main 8-Inch	LF	1,299.000	86.00	111,714.00	80.00	103,920.00	94.00	122,106.00

All Bids Received
January 14, 2025

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1		Bidder No. 2		Bidder No. 3	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
SPV.0090	Special 04. Ductile Iron Water Main 6-Inch	LF	44.000	82.00	3,608.00	90.00	3,960.00	75.00	3,300.00
SPV.0090	Special 05. Copper Pipe 1-Inch	LF	783.000	70.00	54,810.00	45.00	35,235.00	100.00	78,300.00
SPV.0090	Special 06. Concrete Valley Gutter	LF	96.000	40.00	3,840.00	72.00	6,912.00	38.00	3,648.00
SPV.0195	Special 01. Pulverized Base	TON	4,810.000	18.00	86,580.00	27.50	132,275.00	21.00	101,010.00
SPV.0195	Special 02. Pulverized Base	TON	1,205.000	18.00	21,690.00	27.50	33,137.50	27.00	32,535.00
	Proposal Total:				**$1,573,355.60**		**$1,574,343.52**		**$1,597,283.77**

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix

C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St

LOC STR, St Croix County

C Hudson, 11th St & 11th St S

Bidder No.	1	A-1 EXCAVATING LLC	Po Box 90	Bloomer, WI 54724
Bidder No.	2	TOTAL EXCAVATING AND GRADING LLC	141 Hwy 35 N	River Falls, WI 54022
Bidder No.	3	MCCABE CONSTRUCTION, INC.	Po Box 1769	Eau Claire, WI 54703-1769
Bidder No.	4	PEMBER COMPANIES, INC.	N4449-469th Street	Menomonie, WI 54751-5436
Bidder No.	5	HAAS SONS, INC.	203 E. Birch St	Thorp, WI 54771

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 4		Bidder No. 5		Bidder No. 6	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
201.0105	Clearing	STA	8.000	1,375.00	11,000.00	850.00	6,800.00	0.00	0.00
201.0205	Grubbing	STA	8.000	425.00	3,400.00	1,250.00	10,000.00	0.00	0.00
204.0100	Removing Concrete Pavement	SY	150.000	1.90	285.00	20.00	3,000.00	0.00	0.00
204.0150	Removing Curb & Gutter	LF	5,620.000	4.60	25,852.00	4.50	25,290.00	0.00	0.00
204.0155	Removing Concrete Sidewalk	SY	100.000	15.20	1,520.00	20.00	2,000.00	0.00	0.00
204.0210	Removing Manholes	EACH	5.000	610.00	3,050.00	650.00	3,250.00	0.00	0.00
204.0220	Removing Inlets	EACH	9.000	455.00	4,095.00	650.00	5,850.00	0.00	0.00
204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	247.000	17.35	4,285.45	35.00	8,645.00	0.00	0.00
205.0100	Excavation Common	CY	5,551.000	29.60	164,309.60	14.93	82,876.43	0.00	0.00
211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 8999-00-87	EACH	1.000	42,650.00	42,650.00	25,600.00	25,600.00	0.00	0.00
211.0500	Prepare Foundation for Base Aggregate	STA	34.000	330.00	11,220.00	236.00	8,024.00	0.00	0.00
213.0100	Finishing Roadway (project) 01. 8999-00-87	EACH	1.000	500.00	500.00	1.00	1.00	0.00	0.00
305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	35.25	705.00	40.00	800.00	0.00	0.00
305.0120	Base Aggregate Dense 1 1/4-Inch	TON	235.000	40.50	9,517.50	30.00	7,050.00	0.00	0.00
455.0605	Tack Coat	GAL	670.000	3.45	2,311.50	3.30	2,211.00	0.00	0.00
460.2000	Incentive Density HMA Pavement	DOL	2,010.000	1.00	2,010.00	1.00	2,010.00	0.00	0.00
460.5245	HMA Pavement 5 LT 58-34 S	TON	430.000	126.00	54,180.00	120.00	51,600.00	0.00	0.00

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87

Location: St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 4 Bid Price	Bidder No. 4 Amount	Bidder No. 5 Bid Price	Bidder No. 5 Amount	Bidder No. 6 Bid Price	Bidder No. 6 Amount
460.6223	HMA Pavement 3 MT 58-28 S	TON	1,620.000	102.80	166,536.00	97.91	158,614.20	0.00	0.00
460.6445	HMA Pavement 5 MT 58-34 H	TON	1,080.000	121.45	131,166.00	115.68	124,934.40	0.00	0.00
465.0120	Asphaltic Surface Driveways and Field Entrances	TON	40.000	185.40	7,416.00	176.59	7,063.60	0.00	0.00
601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	20.000	34.45	689.00	34.45	689.00	0.00	0.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	5,775.000	18.75	108,281.25	18.75	108,281.25	0.00	0.00
601.0600	Concrete Curb Pedestrian	LF	101.000	33.25	3,358.25	33.25	3,358.25	0.00	0.00
602.0405	Concrete Sidewalk 4-Inch	SF	4,180.000	5.95	24,871.00	5.95	24,871.00	0.00	0.00
602.0415	Concrete Sidewalk 6-Inch	SF	690.000	8.50	5,865.00	8.50	5,865.00	0.00	0.00
602.0505	Curb Ramp Detectable Warning Field Yellow	SF	258.000	52.80	13,622.40	52.80	13,622.40	0.00	0.00
602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	92.520	61.60	5,699.23	61.60	5,699.23	0.00	0.00
602.0810	Concrete Driveway 6-Inch	SY	379.000	70.60	26,757.40	70.60	26,757.40	0.00	0.00
602.0815	Concrete Driveway 7-Inch	SY	123.000	90.40	11,119.20	90.40	11,119.20	0.00	0.00
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	47.000	70.85	3,329.95	98.00	4,606.00	0.00	0.00
608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	20.000	70.85	1,417.00	98.00	1,960.00	0.00	0.00
608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	225.000	75.90	17,077.50	103.50	23,287.50	0.00	0.00
611.0530	Manhole Covers Type J	EACH	6.000	1,020.00	6,120.00	1,200.00	7,200.00	0.00	0.00
611.0624	Inlet Covers Type H	EACH	11.000	1,010.00	11,110.00	1,050.00	11,550.00	0.00	0.00
611.2004	Manholes 4-FT Diameter	EACH	3.000	3,115.00	9,345.00	3,800.00	11,400.00	0.00	0.00
611.2005	Manholes 5-FT Diameter	EACH	1.000	4,800.00	4,800.00	5,400.00	5,400.00	0.00	0.00
611.2006	Manholes 6-FT Diameter	EACH	2.000	7,100.00	14,200.00	7,900.00	15,800.00	0.00	0.00

All Bids Received
January 14, 2025

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 4 Bid Price	Bidder No. 4 Amount	Bidder No. 5 Bid Price	Bidder No. 5 Amount	Bidder No. 6 Bid Price	Bidder No. 6 Amount
611.3004	Inlets 4-FT Diameter	EACH	1.000	3,135.00	3,135.00	3,800.00	3,800.00	0.00	0.00
611.3230	Inlets 2x3-FT	EACH	10.000	2,120.00	21,200.00	2,700.00	27,000.00	0.00	0.00
611.8110	Adjusting Manhole Covers	EACH	6.000	735.00	4,410.00	1,250.00	7,500.00	0.00	0.00
611.8115	Adjusting Inlet Covers	EACH	5.000	775.00	3,875.00	1,250.00	6,250.00	0.00	0.00
612.0902.S	Insulation Board Polystyrene (inch) 01. 4-Inch	SY	25.000	61.70	1,542.50	44.50	1,112.50	0.00	0.00
618.0100	Maintenance and Repair of Haul Roads (project) 01. 8999-00-87	EACH	1.000	500.00	500.00	1.00	1.00	0.00	0.00
619.1000	Mobilization	EACH	1.000	99,500.00	99,500.00	251,505.00	251,505.00	0.00	0.00
624.0100	Water	MGAL	94.300	75.00	7,072.50	60.00	5,658.00	0.00	0.00
625.0100	Topsoil	SY	3,200.000	13.20	42,240.00	7.94	25,408.00	0.00	0.00
628.1504	Silt Fence	LF	2,200.000	1.85	4,070.00	1.75	3,850.00	0.00	0.00
628.1520	Silt Fence Maintenance	LF	2,200.000	0.01	22.00	0.01	22.00	0.00	0.00
628.1905	Mobilizations Erosion Control	EACH	6.000	100.00	600.00	100.00	600.00	0.00	0.00
628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	50.00	150.00	50.00	150.00	0.00	0.00
628.2008	Erosion Mat Urban Class I Type B	SY	2,000.000	1.80	3,600.00	1.70	3,400.00	0.00	0.00
628.6505	Soil Stabilizer Type A	ACRE	0.350	7,975.00	2,791.25	7,600.00	2,660.00	0.00	0.00
628.7005	Inlet Protection Type A	EACH	29.000	100.00	2,900.00	100.00	2,900.00	0.00	0.00
628.7015	Inlet Protection Type C	EACH	18.000	45.00	810.00	43.00	774.00	0.00	0.00
628.7560	Tracking Pads	EACH	2.000	1,400.00	2,800.00	500.00	1,000.00	0.00	0.00
629.0210	Fertilizer Type B	CWT	3.000	125.00	375.00	120.00	360.00	0.00	0.00
630.0140	Seeding Mixture No. 40	LB	55.000	18.40	1,012.00	17.50	962.50	0.00	0.00
630.0200	Seeding Temporary	LB	80.000	3.00	240.00	3.00	240.00	0.00	0.00
630.0500	Seed Water	MGAL	165.000	0.01	1.65	0.01	1.65	0.00	0.00

All Bids Received
January 14, 2025

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix

C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St

LOC STR, St Croix County

C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 4		Bidder No. 5		Bidder No. 6	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	14.000	265.00	3,710.00	251.00	3,514.00	0.00	0.00
634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	13.000	270.00	3,510.00	269.00	3,497.00	0.00	0.00
634.0818	Posts Tubular Steel 2x2-Inch X 18-FT	EACH	4.000	300.00	1,200.00	285.00	1,140.00	0.00	0.00
637.2210	Signs Type II Reflective H	SF	155.380	16.75	2,602.62	15.90	2,470.54	0.00	0.00
637.2230	Signs Type II Reflective F	SF	103.000	19.85	2,044.55	18.95	1,951.85	0.00	0.00
638.2102	Moving Signs Type II	EACH	1.000	78.80	78.80	75.00	75.00	0.00	0.00
638.2602	Removing Signs Type II	EACH	74.000	15.80	1,169.20	15.00	1,110.00	0.00	0.00
638.3000	Removing Small Sign Supports	EACH	37.000	15.80	584.60	15.00	555.00	0.00	0.00
638.4000	Moving Small Sign Supports	EACH	1.000	80.00	80.00	75.00	75.00	0.00	0.00
642.5001	Field Office Type B	EACH	1.000	9,500.00	9,500.00	26,800.00	26,800.00	0.00	0.00
643.0410	Traffic Control Barricades Type II	DAY	330.000	0.30	99.00	0.30	99.00	0.00	0.00
643.0420	Traffic Control Barricades Type III	DAY	650.000	0.60	390.00	0.55	357.50	0.00	0.00
643.0705	Traffic Control Warning Lights Type A	DAY	1,620.000	0.10	162.00	0.08	129.60	0.00	0.00
643.0900	Traffic Control Signs	DAY	10,860.000	0.45	4,887.00	0.43	4,669.80	0.00	0.00
643.1000	Traffic Control Signs Fixed Message	SF	36.000	11.55	415.80	10.90	392.40	0.00	0.00
643.5000	Traffic Control	EACH	1.000	5,000.00	5,000.00	4,475.00	4,475.00	0.00	0.00
646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	5,850.000	2.10	12,285.00	1.99	11,641.50	0.00	0.00
646.4020	Marking Line Epoxy 10-Inch	LF	125.000	3.70	462.50	3.50	437.50	0.00	0.00
646.5020	Marking Arrow Epoxy	EACH	4.000	370.00	1,480.00	350.00	1,400.00	0.00	0.00
646.5120	Marking Word Epoxy	EACH	16.000	320.00	5,120.00	299.00	4,784.00	0.00	0.00
646.6120	Marking Stop Line Epoxy 18-Inch	LF	62.000	19.10	1,184.20	18.00	1,116.00	0.00	0.00

All Bids Received
January 14, 2025

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 4		Bidder No. 5		Bidder No. 6	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	480.000	14.75	7,080.00	14.00	6,720.00	0.00	0.00
646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	300.000	20.20	6,060.00	19.00	5,700.00	0.00	0.00
646.8120	Marking Curb Epoxy	LF	400.000	7.40	2,960.00	7.00	2,800.00	0.00	0.00
650.4000	Construction Staking Storm Sewer	EACH	17.000	210.00	3,570.00	200.00	3,400.00	0.00	0.00
650.4500	Construction Staking Subgrade	LF	1,790.000	0.75	1,342.50	1.50	2,685.00	0.00	0.00
650.5000	Construction Staking Base	LF	3,334.000	0.55	1,833.70	0.50	1,667.00	0.00	0.00
650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	5,930.000	0.90	5,337.00	0.80	4,744.00	0.00	0.00
650.8000	Construction Staking Resurfacing Reference	LF	1,542.000	0.10	154.20	0.10	154.20	0.00	0.00
650.9000	Construction Staking Curb Ramps	EACH	25.000	50.00	1,250.00	50.00	1,250.00	0.00	0.00
650.9500	Construction Staking Sidewalk (project) 01. 8999-00-87	EACH	1.000	1,050.00	1,050.00	1,000.00	1,000.00	0.00	0.00
650.9911	Construction Staking Supplemental Control (project) 01. 8999-00-87	EACH	1.000	1,050.00	1,050.00	1,000.00	1,000.00	0.00	0.00
650.9920	Construction Staking Slope Stakes	LF	3,334.000	0.85	2,833.90	0.75	2,500.50	0.00	0.00
690.0150	Sawing Asphalt	LF	1,069.000	2.35	2,512.15	1.95	2,084.55	0.00	0.00
690.0250	Sawing Concrete	LF	365.000	3.35	1,222.75	2.95	1,076.75	0.00	0.00
740.0440	Incentive IRI Ride	DOL	1,262.880	1.00	1,262.88	1.00	1,262.88	0.00	0.00
ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	800.000	5.00	4,000.00	5.00	4,000.00	0.00	0.00
ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	5.00	3,000.00	5.00	3,000.00	0.00	0.00
SPV.0060	Special 01. Adjust Frame & Ring Casting	EACH	12.000	945.00	11,340.00	1,000.00	12,000.00	0.00	0.00
SPV.0060	Special 02. Salvaged and Install Hydrant and Valve Box	EACH	2.000	2,700.00	5,400.00	2,650.00	5,300.00	0.00	0.00

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87 **Location:** St Croix

C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St

LOC STR, St Croix County

C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 4 Bid Price	Bidder No. 4 Amount	Bidder No. 5 Bid Price	Bidder No. 5 Amount	Bidder No. 6 Bid Price	Bidder No. 6 Amount
SPV.0060	Special 03. Remove Gate Valve & Box	EACH	4.000	150.00	600.00	700.00	2,800.00	0.00	0.00
SPV.0060	Special 04. Connect To Existing Water Main	EACH	2.000	2,600.00	5,200.00	6,050.00	12,100.00	0.00	0.00
SPV.0060	Special 05. 45° Bend 8-Inch	EACH	4.000	835.00	3,340.00	1,000.00	4,000.00	0.00	0.00
SPV.0060	Special 06. Gate Valve 8-Inch	EACH	4.000	3,535.00	14,140.00	3,850.00	15,400.00	0.00	0.00
SPV.0060	Special 07. Tee 8-Inch x 6-Inch	EACH	3.000	1,190.00	3,570.00	1,550.00	4,650.00	0.00	0.00
SPV.0060	Special 08. Hydrant	EACH	1.000	6,600.00	6,600.00	6,650.00	6,650.00	0.00	0.00
SPV.0060	Special 09. Gate Valve 6-Inch	EACH	1.000	2,665.00	2,665.00	3,000.00	3,000.00	0.00	0.00
SPV.0060	Special 10. Curb Stop 1-Inch	EACH	33.000	530.00	17,490.00	575.00	18,975.00	0.00	0.00
SPV.0060	Special 11. Corp Stop 1-Inch	EACH	33.000	350.00	11,550.00	350.00	11,550.00	0.00	0.00
SPV.0060	Special 12. Watermain Testing	EACH	1.000	1,700.00	1,700.00	3,000.00	3,000.00	0.00	0.00
SPV.0060	Special 13. Temporary Water	EACH	1.000	17,050.00	17,050.00	32,000.00	32,000.00	0.00	0.00
SPV.0060	Special 14. Adjusting Water Valve	EACH	12.000	195.00	2,340.00	775.00	9,300.00	0.00	0.00
SPV.0060	Special 15. Connect To Existing Storm Sewer	EACH	15.000	1,010.00	15,150.00	725.00	10,875.00	0.00	0.00
SPV.0060	Special 16. Remove, Salvage, and Reinstall Modular Block Retaining Wall	EACH	1.000	1,490.00	1,490.00	2,670.00	2,670.00	0.00	0.00
SPV.0060	Special 17. Street Name Sign	EACH	20.000	140.00	2,800.00	133.00	2,660.00	0.00	0.00
SPV.0060	Special 18. Remove Block	EACH	1.000	785.00	785.00	750.00	750.00	0.00	0.00
SPV.0090	Special 01. Remove Watermain	LF	1,321.000	5.70	7,529.70	12.00	15,852.00	0.00	0.00
SPV.0090	Special 02. Remove Water Service	LF	783.000	3.85	3,014.55	5.00	3,915.00	0.00	0.00
SPV.0090	Special 03. Ductile Iron Water Main 8-Inch	LF	1,299.000	92.50	120,157.50	101.00	131,199.00	0.00	0.00
SPV.0090	Special 04. Ductile Iron Water Main 6-Inch	LF	44.000	82.00	3,608.00	86.00	3,784.00	0.00	0.00
SPV.0090	Special 05. Copper Pipe 1-Inch	LF	783.000	64.05	50,151.15	122.00	95,526.00	0.00	0.00

All Bids Received
January 14, 2025

Proposal Call: 040 **Proposal ID:** 20250114040

State Project(s): 8999-00-87

Location: St Croix
C Hudson, 11th St & 11th St S; Coulee Rd to Wisconsin St
LOC STR, St Croix County
C Hudson, 11th St & 11th St S

Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 4		Bidder No. 5		Bidder No. 6	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
SPV.0090	Special 06. Concrete Valley Gutter	LF	96.000	38.40	3,686.40	38.40	3,686.40	0.00	0.00
SPV.0195	Special 01. Pulverized Base	TON	4,810.000	13.00	62,530.00	0.01	48.10	0.00	0.00
SPV.0195	Special 02. Pulverized Base	TON	1,205.000	18.00	21,690.00	0.01	12.05	0.00	0.00
	Proposal Total:				**$1,614,579.78**		**$1,689,678.63**		**$0.00**

APPENDIX C

Final Project Plans

EAU

PROJECT ID: 8999-00-87

WITH: N/A

COUNTY: ST. CROIX

40

JANUARY 2025

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Details)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 206

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C HUDSON, 11TH ST & 11TH ST S

COULEE RD TO WISCONSIN ST

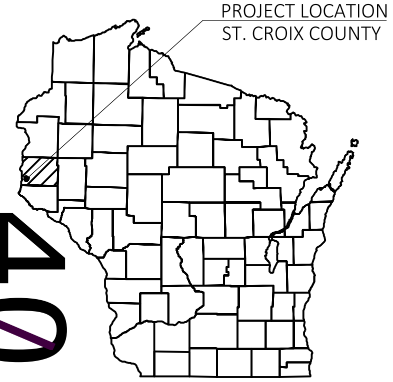
LOCAL STREET

ST. CROIX COUNTY

STATE PROJECT NUMBER
8999-00-87

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
8999-00-87	WISC 2025177	1

PROJECT LOCATION
ST. CROIX COUNTY



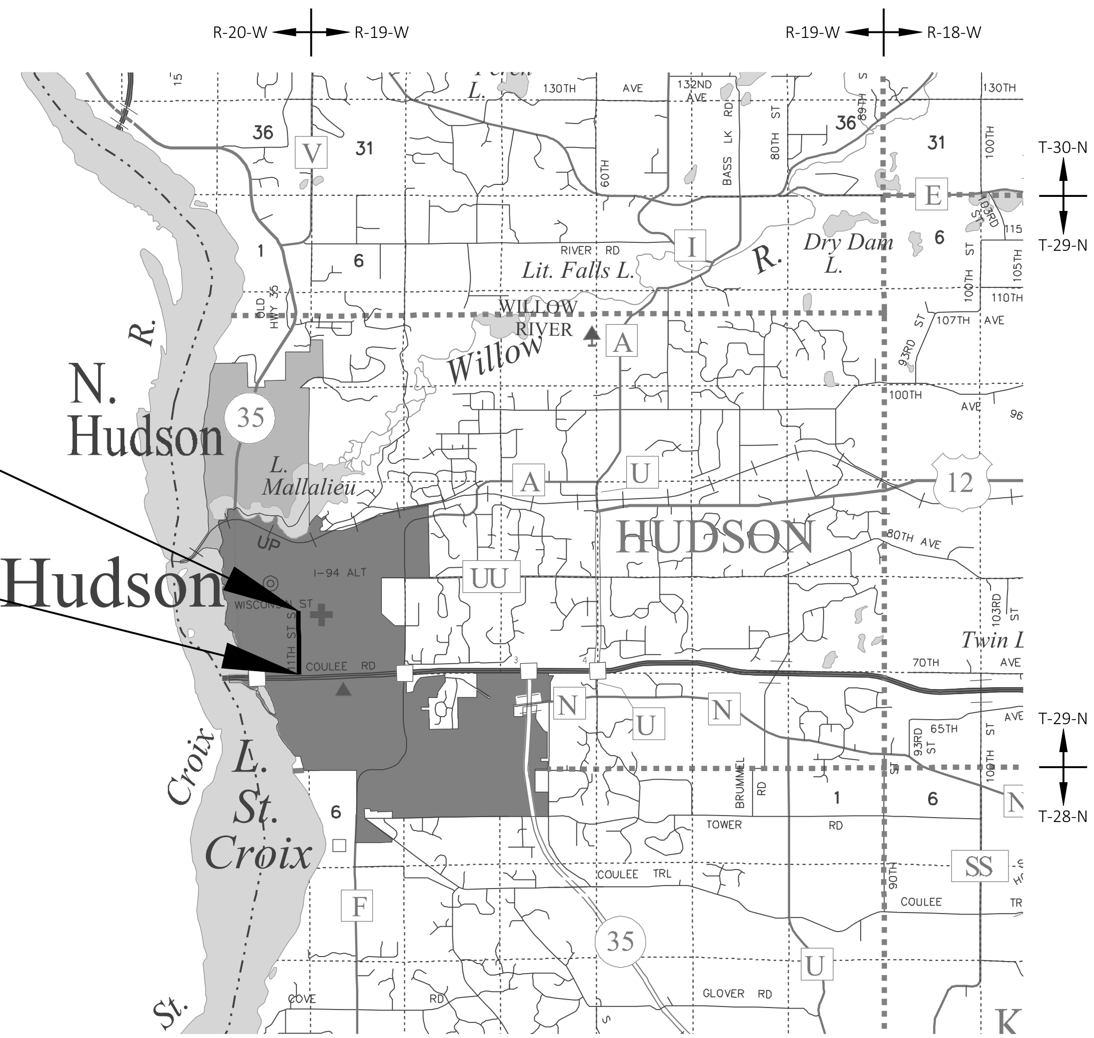
N

DESIGN DESIGNATION

A.A.D.T.	2025	=	4,000
A.A.D.T.	2045	=	4,400
D.H.V.		=	572
D.D.		=	59/41
T.		=	5.4%
DESIGN SPEED		=	25 MPH
ESALS		=	340,000

END PROJECT
STA 36+54
X = 514,415.266
Y = 341,517.886

BEGIN PROJECT
STA 3+20
X = 514,447.029
Y = 338,184.271



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 0.632 MI

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), ST. CROIX COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

ACCEPTED FOR

CITY of HUDSON

7/24/2024 (Date) Michael Mroz (City Official)

ORIGINAL PLANS PREPARED BY

MSA
60 Plato Blvd East, St. Paul MN 55107-1835
(612) 548-3132 www.msa-ps.com

WISCONSIN PROFESSIONAL ENGINEER
ERIC SCHMIDT
E-48994
BLOOMINGTON MN

DATE: 7/18/2024 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC
Designer	MSA PROFESSIONAL SERVICES, INC
Project Manager	MATTHEW BERG
Regional Examiner	----------
Regional Supervisor	TOU YANG

APPROVED FOR THE DEPARTMENT

DATE: 7/29/2024 (Signature)

E

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

RIGHT OF WAY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE.

WISCONSIN DNR LIAISON

AMY LESIK
NORTHWEST REGION
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: 715-495-1903
EMAIL: AMYL.LESIK@WISCONSIN.GOV

DESIGN CONTACT

ERIC SCHMIDT
MSA PROFESSIONAL SERVICES
60 PLATO BOULEVARD E., SUITE 140
ST PAUL, MN 55107
PHONE: 612-548-3134
EMAIL: ESCHMIDT@MSA-PS.COM

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
CURB RAMP DETAILS
EROSION CONTROL
STORM SEWER REMOVALS
STORM SEWER
UTILITY PLAN REMOVALS
UTILITY PLAN
EXISTING SIGNING
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DIAGRAM

UTILITIES CONTACTS

AT&T WISCONSIN
COMMUNICATION LINE
ATTN: RICK PODOLAK
304 SOUTH DEWEY STREET, 4TH FLOOR
EAU CLAIRE, WI 54701
PHONE: 715-839-5565 (OFFICE)
PHONE: 715-410-0656 (CELL)
EMAIL: rp4514@att.com

BALDWIN TELECOM, INC
COMMUNICATION LINE
ATTN: MATT KNEGENDORF
930 MAPLE STREET
BALDWIN, WI 54002
PHONE: 715-688-1034 (OFFICE)
PHONE: 715-760-0968 (CELL)
EMAIL: mknegendorf@lswi.net

COMCAST
COMMUNICATION LINE
ATTN: BEN UELAND
4255 LEXINGTON AVENUE N, STE 100
ARDEN HILLS, MN 55026
PHONE: 612-462-7911 (CELL)
EMAIL: Benjamin_ueland@comcast.com

HUDSON PUBLIC UTILITIES
WATER
ATTN: KIP PETERS
505 3RD STREET
HUDSON, WI 54016-1603
PHONE: 715-386-4765 x115 (OFFICE)
PHONE: 920-219-0378 (CELL)
EMAIL: kpeters@hudsonwi.gov

HUDSON PUBLIC UTILITIES
SEWER
ATTN: KIP PETERS
505 3RD STREET
HUDSON, WI 54016-1603
PHONE: 715-386-4765 x115 (OFFICE)
PHONE: 920-219-0378 (CELL)
EMAIL: kpeters@hudsonwi.gov

XCEL ENERGY
ELECTRICITY
ATTN: DARREN NORDSKOG
2001 OLD HIGHWAY 35 S
HUDSON, WI 54016
PHONE: 715-386-4798 (OFFICE)
PHONE: 715-410-3755 (CELL)
EMAIL: darren.m.nordskog@xcelenergy.com

XCEL ENERGY
GAS
ATTN: DARREN NORDSKOG
2001 OLD HIGHWAY 35 S
HUDSON, WI 54016
PHONE: 715-386-4798 (OFFICE)
PHONE: 715-410-3755 (CELL)
EMAIL: darren.m.nordskog@xcelenergy.com

MIDCONTINENT COMMUNICATIONS
COMMUNICATIONS
ATTN: FIELD SERVICE MANAGER
210 MCKINLEY STREET N
CAMBRIDGE, MN 55008
PHONE: 763-333-4605 (OFFICE)
EMAIL: mnregcon@midco.com

STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AH	AHEAD
∠	ANGLE
AADT	ANNUAL AVERAGE DAILY TRAFFIC
AEW	APRON ENDWALL
ASPH	ASPHALTIC
BK	BACK
BC	BACK OF CURB
BAD	BASE AGGREGATE DENSE
BL OR B/L	BASE LINE
BM	BENCH MARK
CB	CATCH BASIN
CL OR C/L	CENTER LINE
Δ	CENTRAL ANGLE OR DELTA
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CSW	CONCRETE SIDEWALK
CONST	CONSTRUCTION
CP	CONTROL POINT
CO	COUNTY
CTH	COUNTY TRUCK HIGHWAY
CY	CUBIC YARD
CP	CULVERT PIPE
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DD	DIRECTIONAL DISTRIBUTION
DE	DRAINAGE EASEMENT
DWY	DRIVEWAY
EA	EACH
EB	EASTBOUND
EL OR ELEV	ELEVATION
EMB	EMBANKMENT
EW	ENDWALL
EAT	ENERGY ABSORBING TERMINAL
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FERT	FERTILIZER
FE	FIELD ENTRANCE
FL OR F/L	FLOW LINE
FT	FOOT
FTMS	FREE TRAFFIC MANAGEMENT SYSTEM
HES	HIGH EARLY STRENGTH
HE	HIGHWAY EASEMENT
CWT	HUNDRED WEIGHT
IN DIA	INCH DIAMETER
INL	INLET
ID	INSIDE DIAMETER
INTERS	INTERSECTION
IH	INTERSTATE HIGHWAY
INV	INVERT
JT	JOINT
LT	LEFT
LHF	LEFT HAND FORWARD
L	LENGTH OF CURVE
LF	LINEAR FOOT
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MGAL	ONE THOUSAND GALLONS
MH	MANHOLE
ML OR M/L	MATCH LINE
NOM	NOMINAL
NC	NORMAL CROWN
NB	NORTHBOUND
NO	NUMBER
OD	OUTSIDE DIAMETER
PAVT	PAVEMENT
PLE	PERMANENT LIMITED EASEMENT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PCC	PORTLAND CEMENT CONCRETE
LB	POUND
PSI	POUNDS PER SQUARE INCH
PE	PRIVATE ENTRANCE
PROJ	PROJECT
PL	PROPERTY LINE
PRW	PROPOSED RIGHT OF WAY
R	RADIUS
RL OR R/L	REFERENCE LINE
REQD	REQUIRED
RT	RIGHT
RHF	RIGHT HAND FORWARD
R/W	RIGHT OF WAY
RD	ROAD
RDWY	ROADWAY
SHLDR	SHOULDER
SW	SIDEWALK
SB	SOUTHBOUND
SPECS	SPECIFICATIONS
SF	SQUARE FEET
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAY
STA	STATION
SE	SUPERELEVATION
SL OR S/L	SURVEY LINE
TEMP	TEMPORARY
TI	TEMPORARY INTEREST
TLE	TEMPORARY LIMITED EASEMENT
TC	TOP OF CURB
TL OR T/L	TRANSIT LINE
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
USH	UNITED STATES HIGHWAY
VAR	VARIABLE
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WB	WESTBOUND

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS:	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIPTURF:	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPETURF:			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

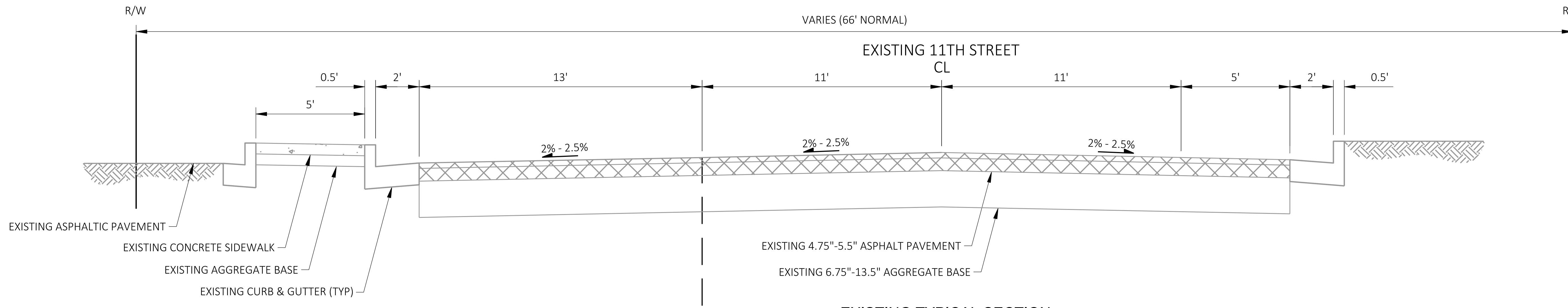
TOTAL PROJECT AREA = 5.32 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.64 ACRES

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

HMA 5-INCHES		
LAYER	THICKNESS	TYPE
UPPER	2-INCHES	5 MT 58-34 H
LOWER	3-INCHES	3 MT 58-28 S

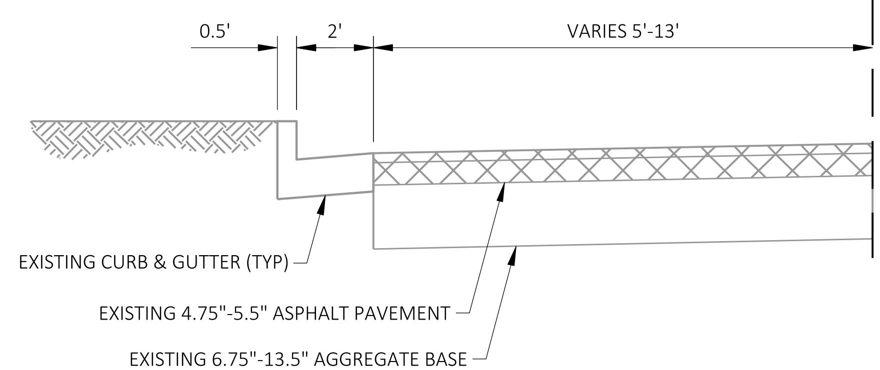
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 020201-po
PLOT DATE : 5/28/2024 1:34 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1:250
WISDOT/CADDS SHEET 42

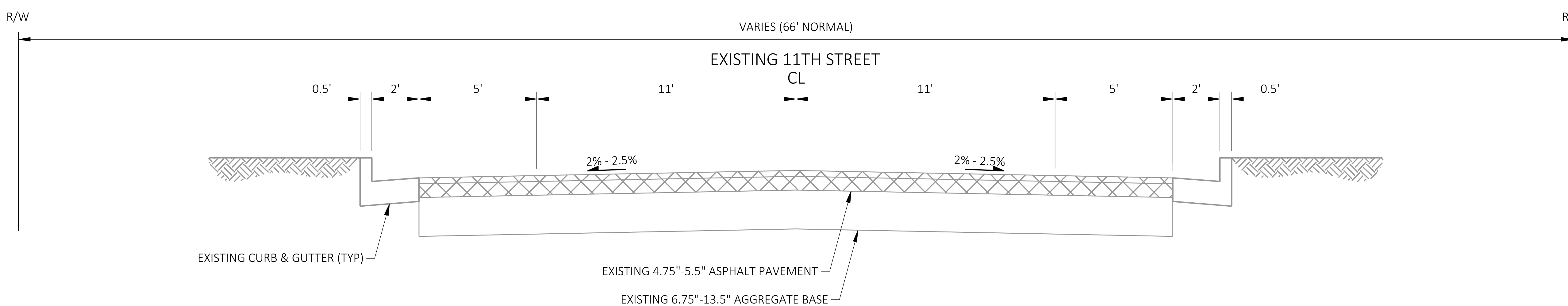


EXISTING TYPICAL SECTION

STA 3+20 - STA 5+00



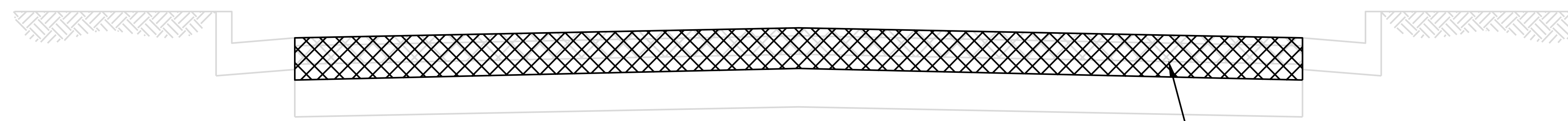
STA 3+32 - STA 5+00



EXISTING TYPICAL SECTION

STA 5+00 - STA 36+54

2

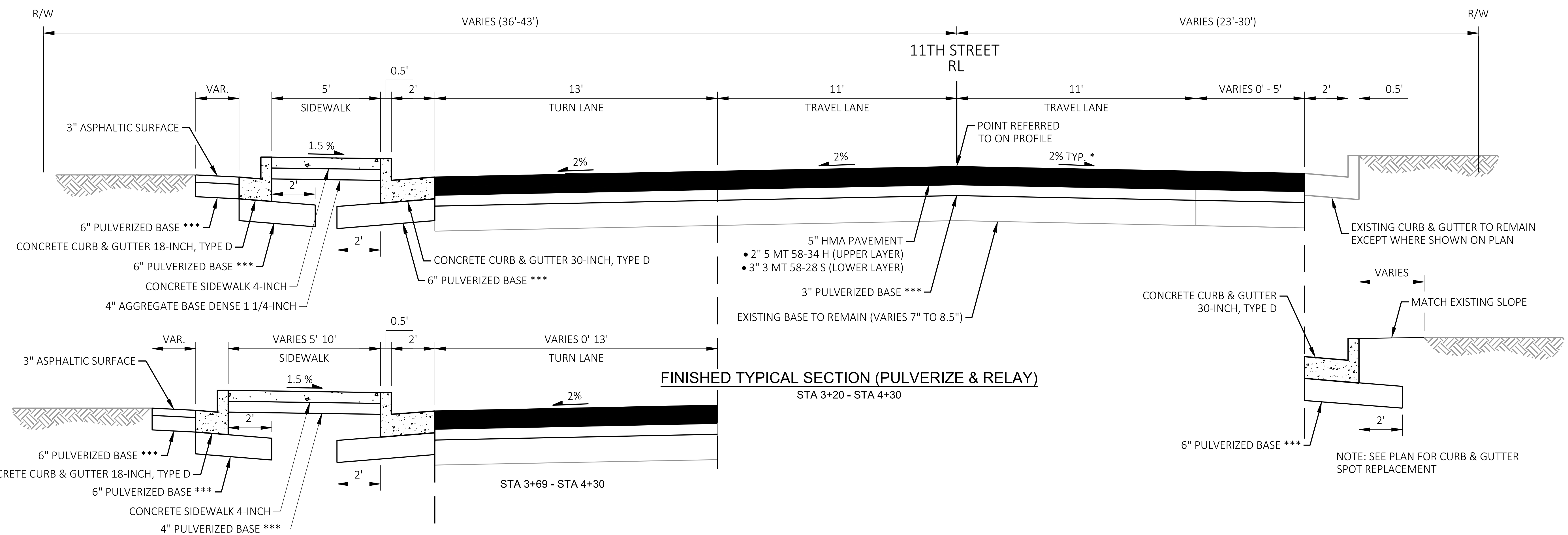


PULVERIZE OPERATION DETAIL & NOTES

SEE TYPICAL SECTIONS BELOW FOR APPLICABLE STATION RANGES

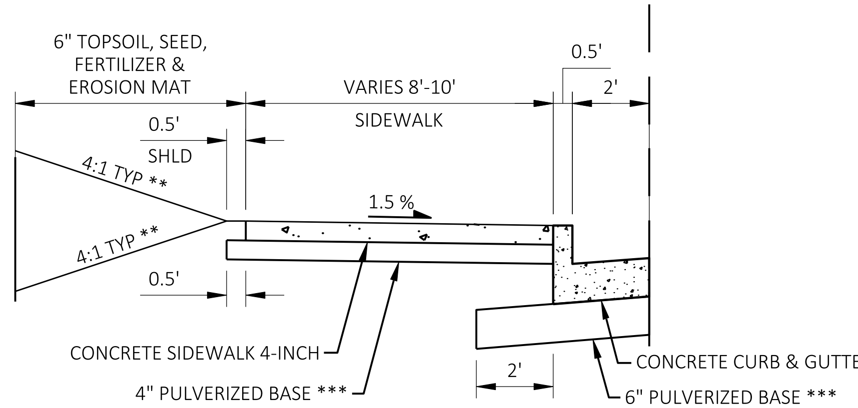
NOTES:

DETAIL IS SHOWN TO PROVIDE CLARITY ON CONSTRUCTION OPERATION FOR PULVERIZED BASE AS SHOWN THROUGHOUT TYPICAL SECTIONS.



FINISHED TYPICAL SECTION (PULVERIZE & RELAY)

STA 3+20 - STA 4+30



STA 4+07 - STA 4+30

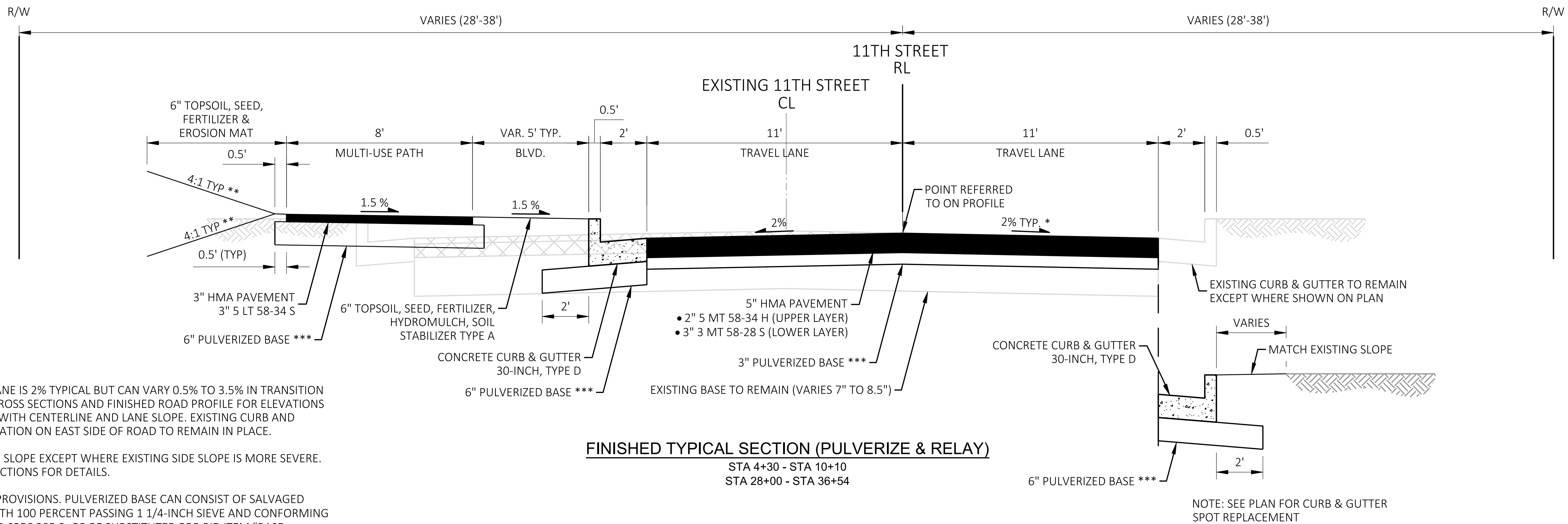
* NB TRAVEL LANE IS 2% TYPICAL BUT CAN VARY 0.5% TO 3.5% IN TRANSITION AREAS. SEE CROSS SECTIONS AND FINISHED ROAD PROFILE FOR ELEVATIONS ASSOCIATED WITH CENTERLINE AND LANE SLOPE. EXISTING CURB AND GUTTER ELEVATION ON EAST SIDE OF ROAD TO REMAIN IN PLACE.

** 4:1 TYP TIE IN SLOPE EXCEPT WHERE EXISTING SIDE SLOPE IS MORE SEVERE. SEE CROSS SECTIONS FOR DETAILS.

*** SEE SPECIAL PROVISIONS. PULVERIZED BASE CAN CONSIST OF SALVAGED MATERIAL WITH 100 PERCENT PASSING 1 1/4-INCH SIEVE AND CONFORMING TO STANDARD SPEC 305.2, OR BE SUBSTITUTED FOR BID ITEM "BASE AGGREGATE DENSE 1 1/4 INCH" AT CONTRACTOR'S DISCRETION.

2

2



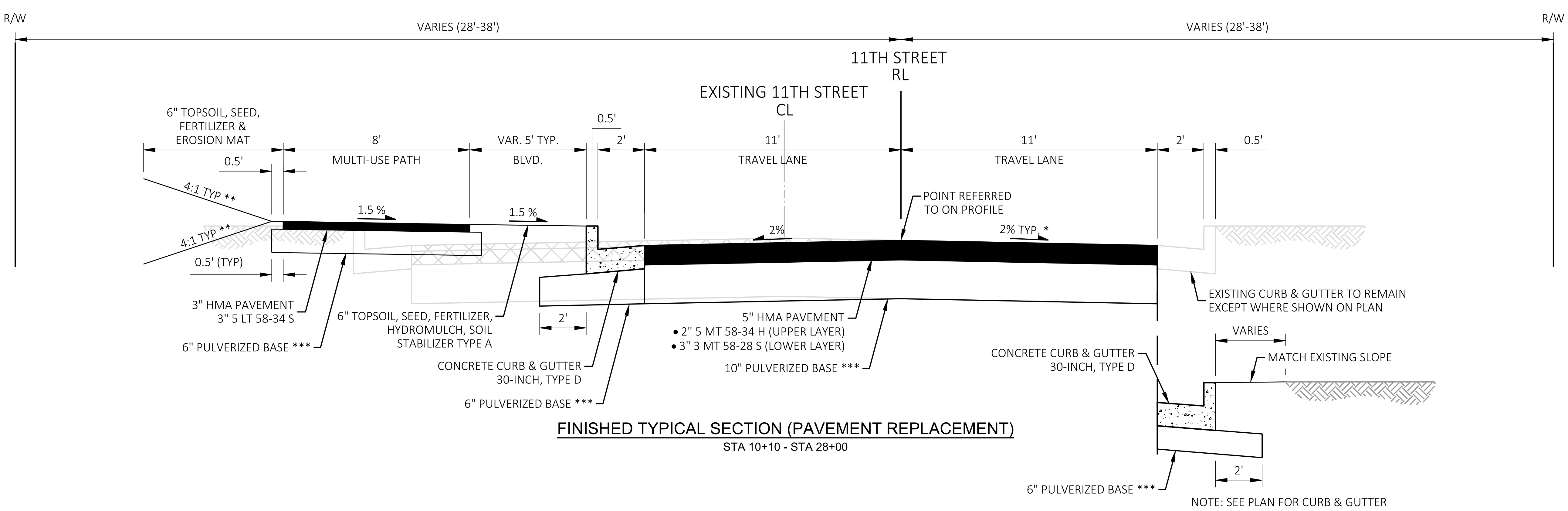
FINISHED TYPICAL SECTION (PULVERIZE & RELAY)

STA 4+30 - STA 10+10
STA 28+00 - STA 36+54

* NB TRAVEL LANE IS 2% TYPICAL BUT CAN VARY 0.5% TO 3.5% IN TRANSITION AREAS. SEE CROSS SECTIONS AND FINISHED ROAD PROFILE FOR ELEVATIONS ASSOCIATED WITH CENTERLINE AND LANE SLOPE. EXISTING CURB AND GUTTER ELEVATION ON EAST SIDE OF ROAD TO REMAIN IN PLACE.

** 4:1 TYP TIE IN SLOPE EXCEPT WHERE EXISTING SIDE SLOPE IS MORE SEVERE. SEE CROSS SECTIONS FOR DETAILS.

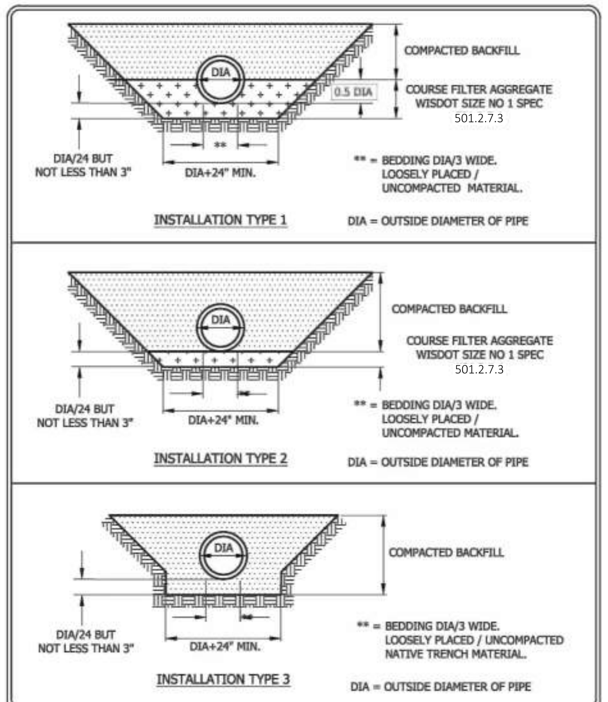
*** SEE SPECIAL PROVISIONS. PULVERIZED BASE CAN CONSIST OF SALVAGED MATERIAL WITH 100 PERCENT PASSING 1 1/4-INCH SIEVE AND CONFORMING TO STANDARD SPEC 305.2, OR BE SUBSTITUTED FOR BID ITEM "BASE AGGREGATE DENSE 1 1/4 INCH" AT CONTRACTOR'S DISCRETION.



FINISHED TYPICAL SECTION (PAVEMENT REPLACEMENT)

STA 10+10 - STA 28+00

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	TYPICAL SECTIONS	SHEET 6	E

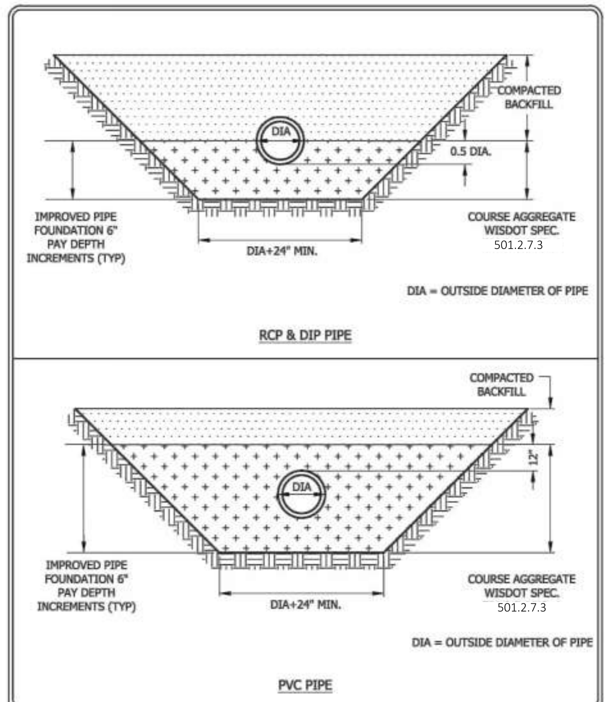


CITY OF HUDSON

PIPE FOUNDATION & BEDDING METHODS FOR RCP & DIP

LAST REVISION: March 2019

PLATE NO. BED-1

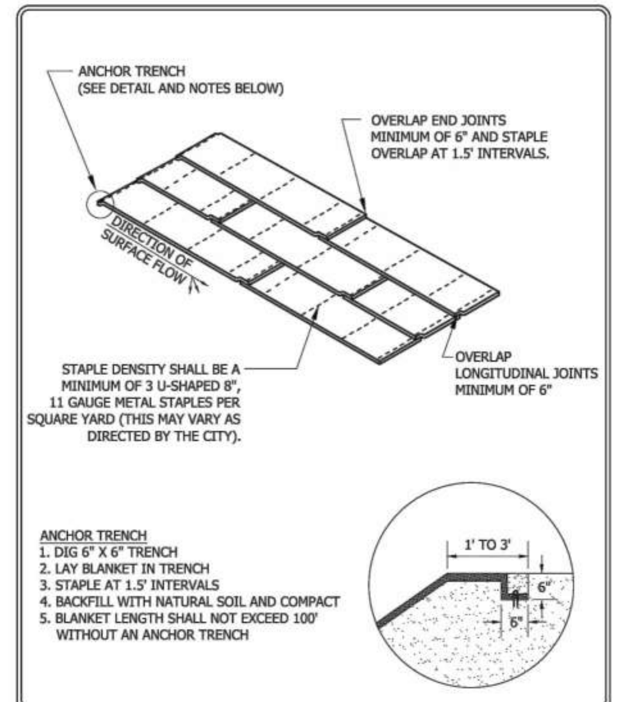


CITY OF HUDSON

IMPROVED PIPE FOUNDATION FOR RCP, DIP & PVC PIPE TRENCH

LAST REVISION: March 2019

PLATE NO. BED-3



CITY OF HUDSON

EROSION MAT INSTALLATION

LAST REVISION: March 2019

PLATE NO. ERO-4

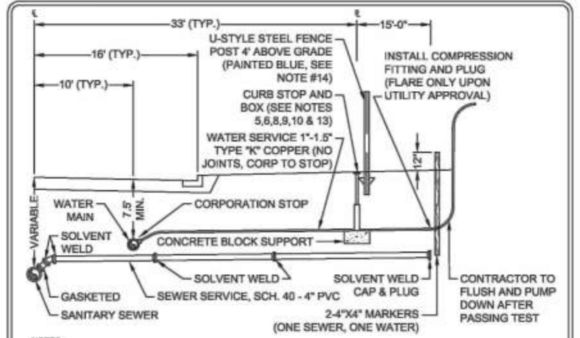
NOTES:

UPDATED STANDARD DETAIL BED-1 SPEC # FROM 501.2.5.4 TO 501.2.7.3

UPDATED STANDARD DETAIL BED-3 SPEC # FROM 501.2.5.4 NO. 1 TO 501.2.7.3

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CONSTRUCTION DETAILS	SHEET 7	E

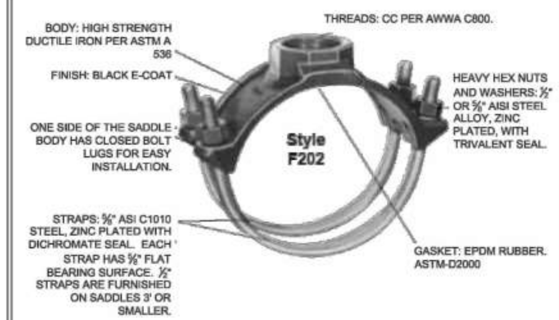
2



NOTES:

1. SEWER SERVICES, SCHEDULE 40 - 4" AND 6" PVC.
2. SLOPE - 1/4" PER FOOT MINIMUM (REFERENCE TO PROPOSED HOUSE PAD ASSURING GRAVITY FLOW TO PROPOSED BUILDING OR HOUSE) CONTRACTOR TO SUPPLY EXACT END OF SERVICE ELEVATION & LOCATION.
3. PIPE JOINTS AND FITTINGS AFTER WYE BRANCH SHALL BE NON GASKETED, SOLVENT WELD TYPE.
4. ALL PIPE SHALL BE BEDDED IN GRANULAR BORROW 209.2.2 GRADE 1 OR COURSE FILTER AGGREGATE (501.3.6.4.5 SIZE NO. 1 CRUSHED)
5. CURB BOX SHALL EXTEND FROM 78" TO 90" AND INSTALLED TO BE ADJUSTABLE 6" UP AND DOWN FROM FINISHED GRADE.
6. ADJUST CURB BOX TO 1" BELOW FINISH GRADE.
7. 1-1/4" AND 1-1/2" TAPS (AND ANY SIZE TAPS IN 4" D.I.P.) SHALL BE INSTALLED WITH DOUBLE STRAP TAPPING SERVICE SADDLE, FORD STYLE F202 (WITH AWWA CC THREADS) OR APPROVED EQUAL.
8. ALL CURB STOPS AND CORPORATION STOPS SHALL BE IN THE OPEN POSITION DURING THE PRESSURE TEST.
9. CORPORATION STOP (AWWA CC THREADS): MUELLER 300 BALL B-25008 OR APPROVED EQUAL.
   CURB STOP: MUELLER 300 BALL B25154, B25155 OR APPROVED EQUAL.
   CURB BOX (MINNEAPOLIS PATTERN): 1" SERVICE - MUELLER H10300 (1-1/4" UPPER SECTION) OR APPROVED EQUAL.
   1-1/2" SERVICE: MUELLER H10302 (1-1/2" UPPER SECTION) OR APPROVED EQUAL.
10. CURB BOXES IN BITUMINOUS OR CONCRETE SHALL BE INSTALLED UTILIZING VALVCO CASTING SC40(WITH WATER LID), OR APPROVED EQUAL.
11. SERVICE FITTING COUPLINGS UTILIZED FROM CURB STOP TO BUILDING SHALL BE MUELLER H-15400, H-15430, OR APPROVED EQUAL.
12. WATER SERVICE SHALL BE TAPPED WITH WATER MAIN UNDER PRESSURE, AND LOCATED IN UPPER QUADRANT OF MAIN (2:00 O'CLOCK OR 10:00 O'CLOCK), OR LOCATION APPROVED BY THE CITY. THREADS SHALL BE DOUBLE WRAPPED WITH TEFLON TAPE PRIOR TO INSTALLATION. TAPPING BIT SHALL BE INSPECTED AND APPROVED BY THE CITY.
13. CURB BOX SHALL BE LOCATED AT PROPERTY LINE. FOR PRIVATE STREET/DRIVES, CURB BOX LOCATION SHALL BE A MAXIMUM OF 15' BEHIND CURB OR EDGE OF PAVEMENT, AND NO CLOSER THAN 10' FROM EDGE OF BUILDING. NO CURB BOX SHALL BE LOCATED IN CURB AND GUTTER OR CLOSER THAN 12" TO LIP OF GUTTER.
14. CURB BOXES LOCATED IN UNIMPROVED RIGHT-OF-WAYS AND EASEMENTS SHALL BE MARKED WITH U-STYLE STEEL POST 4' ABOVE GRADE WITH BLUE METAL SIGN LABELED "CS" IN WHITE LETTERS PER DETAIL WAT-11.

CITY OF HUDSON	SEWER AND WATER SERVICE CONNECTIONS	LAST REVISION: March 2019 / PLATE NO. SER-5



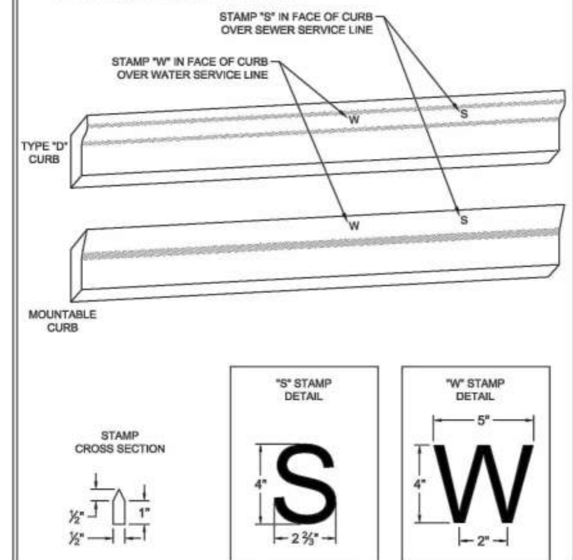
NOTES:

1. WATER SERVICE TAPPING SADDLE FOR DIP SHALL BE A DOUBLE STRAP FORD F202 OR APPROVED EQUAL. CITY ENGINEER SHALL PRE-APPROVE ALL TAPPING SADDLES PRIOR TO INSTALLATION.
2. THE CITY MUST APPROVE ALL SADDLE INSTALLATIONS. SADDLES MAY ONLY BE USED ON 1" TO 1½" SERVICES. ANY LARGER SERVICES MUST BE CUT-INS OR WET TAPPED TO WATERMAIN.
3. DOUBLE STRAP TAPPING SADDLES MUST BE USED ON SERVICE TAPS LARGER THAN 1", UNLESS APPROVED BY THE CITY.
4. DOUBLE STRAP TAPPING SADDLES SHALL BE USED ON ALL SERVICE TAPS INTO WATERMAIN 4 INCHES IN DIAMETER OR SMALLER, UNLESS APPROVED BY THE CITY.

CITY OF HUDSON	DOUBLE STRAP TAPPING SADDLE FOR WATER SERVICE (DIP WATER MAIN)	LAST REVISION: March 2019 / PLATE NO. SER-9

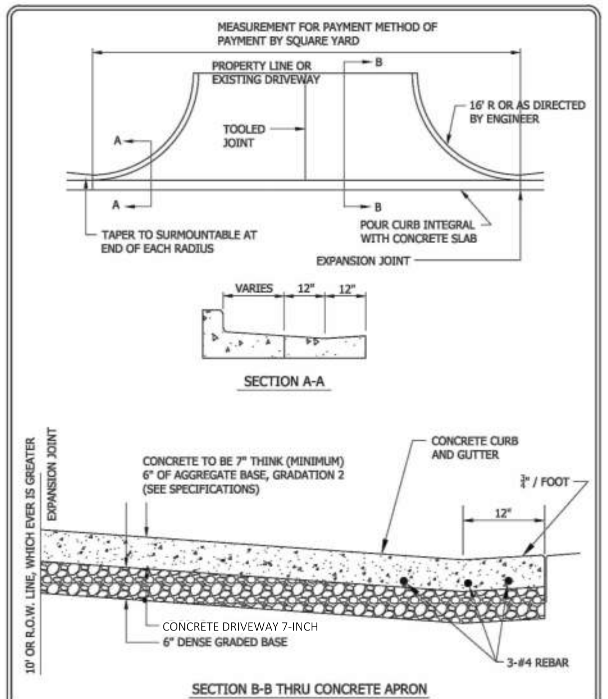
NOTES:

1. ALL NEW AND EXISTING WATER AND SEWER SERVICE LOCATIONS SHALL BE MARKED IN CURB AS SHOWN. STAMPING OF SERVICE LOCATIONS SHALL BE CONSIDERED INCIDENTAL TO THE PRICE OF THE CURB.
2. W'S AND S'S NOT PLACED BY SPECIFIED STAMP WILL NOT BE ACCEPTED AND THAT SECTION OF CURB MUST BE REMOVED AND REPLACED.



CITY OF HUDSON	SANITARY SEWER & WATER SERVICE LOCATION STAMP IN CURB	LAST REVISION: March 2019 / PLATE NO. SER-10

2

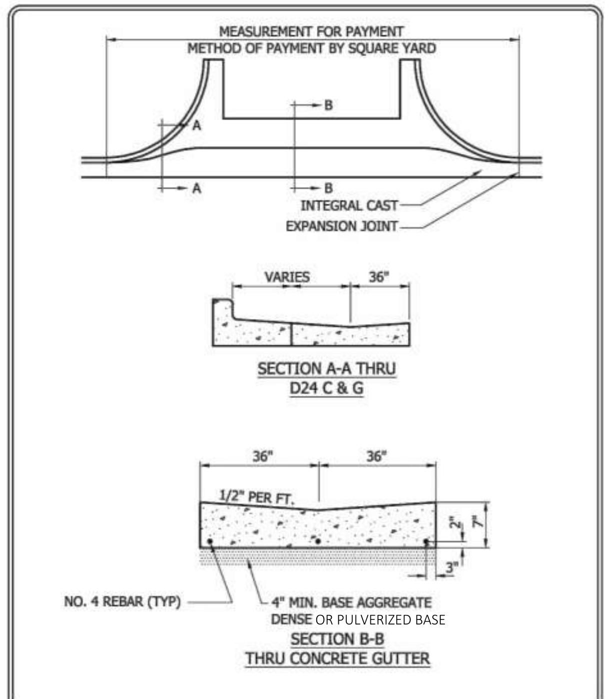


CITY OF HUDSON

COMMERCIAL DRIVEWAY CONCRETE APRON WITH CURB

LAST REVISION: March 2019

PLATE NO. STR-5

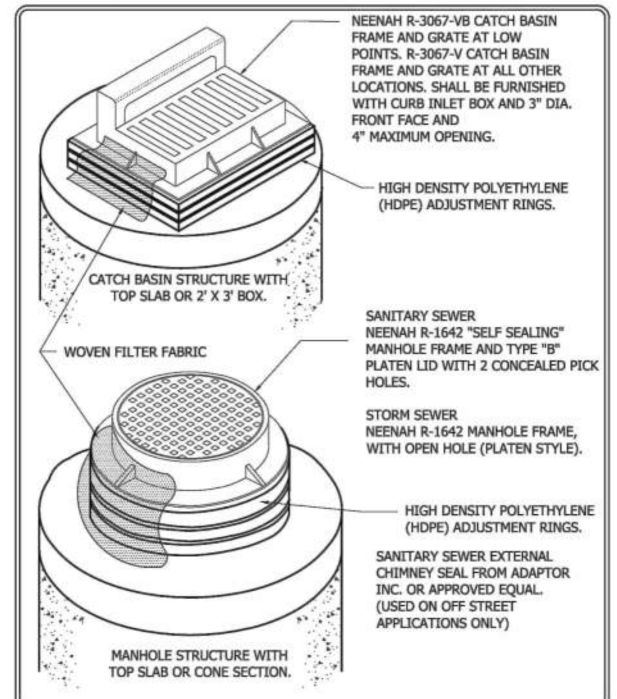


CITY OF HUDSON

CONCRETE VALLEY GUTTER

LAST REVISION: March 2019

PLATE NO. STR-11

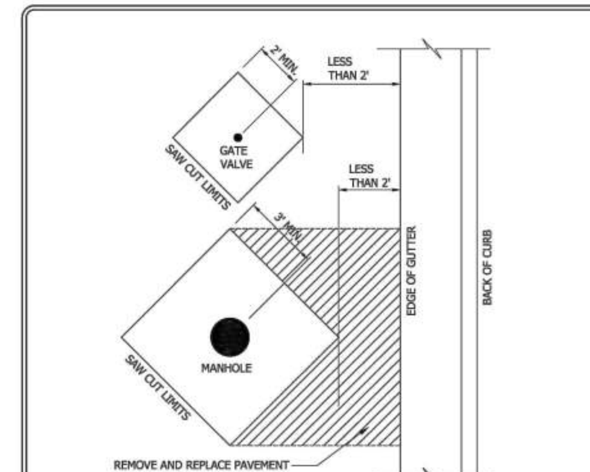


CITY OF HUDSON

CATCH BASIN & MANHOLE ADJUSTMENT (HIGH DENSITY POLYETHYLENE RINGS)

LAST REVISION: March 2019

PLATE NO. STR-16



NOTE:
1. SAW CUT FULL DEPTH THROUGH ASPHALT AND CONCRETE PAVEMENT SQUARE (DIAMOND SHAPED RELATIVE TO THE ROADWAY) A MINIMUM OF 4' FROM CENTER OF MANHOLES AND A MINIMUM OF 3' FROM CENTER OF GATE VALVES.
2. THE REMOVAL DIMENSIONS SHALL MINIMALLY ALLOW FOR VIBRATORY PLATE COMPACTION TO OPERATE PROPERLY.
3. ADJUST ALL SIDES OF STRUCTURES ¼" LOWER THAN ADJACENT FINAL GRADE, MATCHING STREET GRADES AND CROSS-SLOPES.
4. UTILIZE ½" THICK PUCKS ON GATE VALVES AND ½" THICK CIRCULATOR PLATES ON MANHOLES FOR ALL PAVING OF STREETS, DRIVEWAYS, PATHS AND PARKING AREAS.
5. CLEAN ALL LIDS OF ALL GRAVEL, ASPHALT OR CONCRETE DURING PAVING OPERATIONS WHILE ASPHALT IS HOT AND/OR CONCRETE IS PLASTIC.
6. ANY SAW CUT CLOSER THAN 2' TO THE EDGE OF THE GUTTER SHALL BE EXTENDED TO THE EDGE OF THE GUTTER AND THAT ADDITIONAL PAVEMENT REMOVED AND REPLACED, AS DIRECTED BY THE CITY.

CITY OF HUDSON

STRUCTURE ADJUSTMENT (ASPHALT OR CONCRETE)

LAST REVISION: March 2019

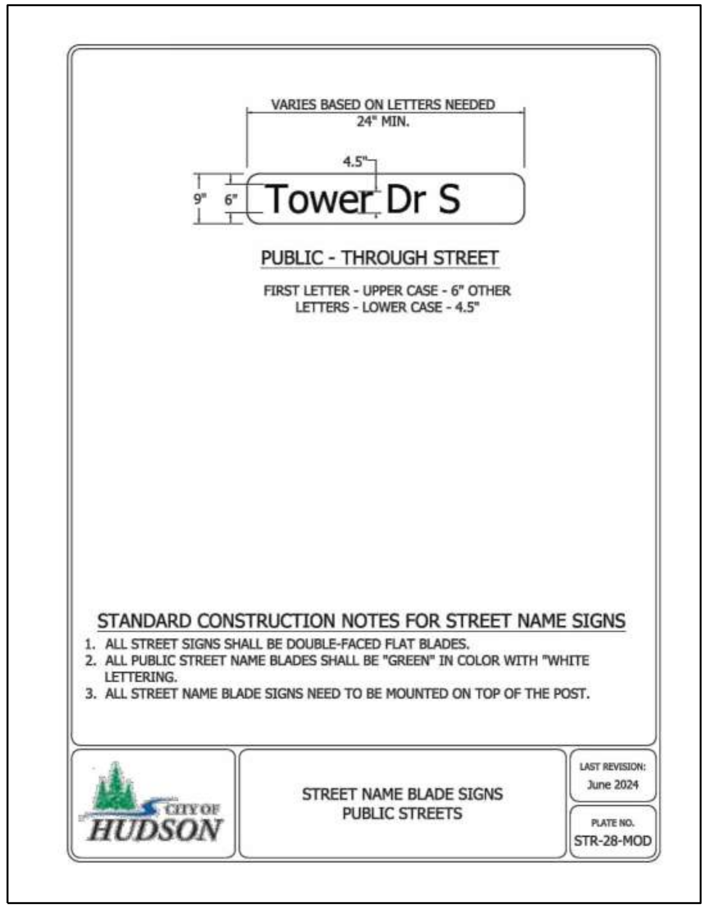
PLATE NO. STR-17

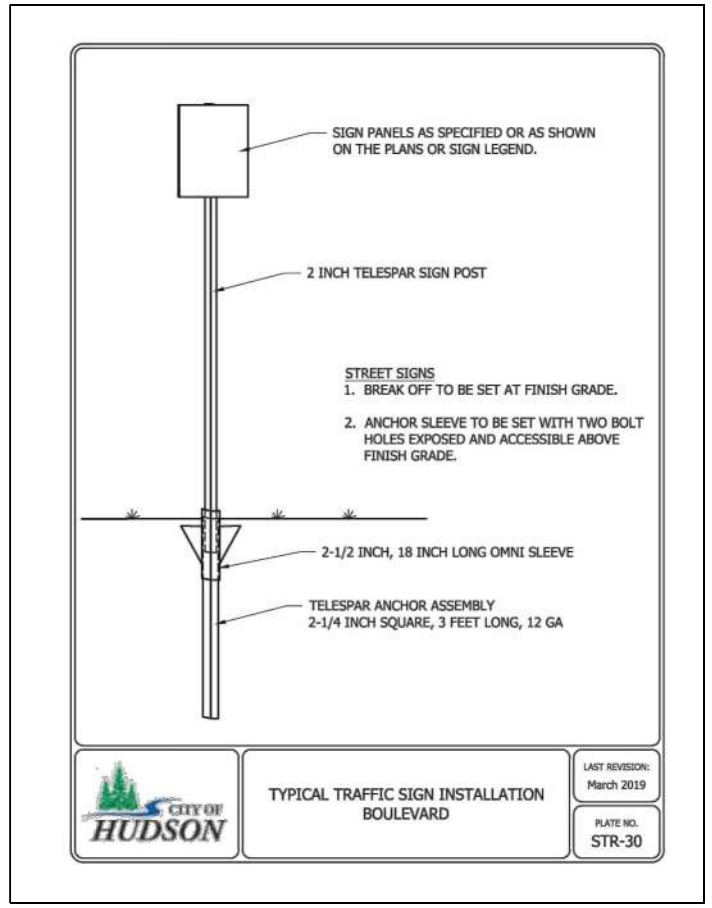
NOTES:

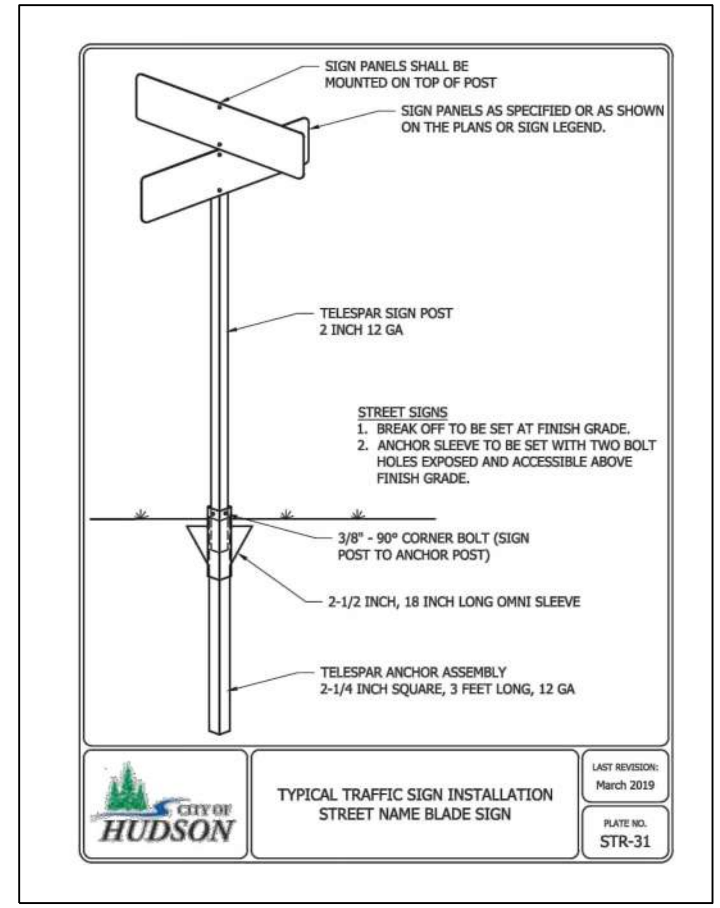
UPDATED STANDARD DETAIL STR-5 ITEM 7" CONCRETE PAVEMENT TO CONCRETE DRIVEWAY 7-INCH

UPDATED STANDARD DETAIL STR-11 TO INCLUDE PULVERIZED BASE

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CONSTRUCTION DETAILS	SHEET 9 E


VARIES BASED ON LETTERS NEEDED
24" MIN.
4.5"
9"
6"
Tower Dr S
PUBLIC - THROUGH STREET
FIRST LETTER - UPPER CASE - 6" OTHER LETTERS - LOWER CASE - 4.5"
STANDARD CONSTRUCTION NOTES FOR STREET NAME SIGNS
1. ALL STREET SIGNS SHALL BE DOUBLE-FACED FLAT BLADES.
2. ALL PUBLIC STREET NAME BLADES SHALL BE "GREEN" IN COLOR WITH "WHITE LETTERING.
3. ALL STREET NAME BLADE SIGNS NEED TO BE MOUNTED ON TOP OF THE POST.
CITY OF HUDSON
STREET NAME BLADE SIGNS
PUBLIC STREETS
LAST REVISION:
June 2024
PLATE NO.
STR-28-MOD


SIGN PANELS AS SPECIFIED OR AS SHOWN ON THE PLANS OR SIGN LEGEND.
2 INCH TELESPAR SIGN POST
STREET SIGNS
1. BREAK OFF TO BE SET AT FINISH GRADE.
2. ANCHOR SLEEVE TO BE SET WITH TWO BOLT HOLES EXPOSED AND ACCESSIBLE ABOVE FINISH GRADE.
2-1/2 INCH, 18 INCH LONG OMNI SLEEVE
TELESPAR ANCHOR ASSEMBLY
2-1/4 INCH SQUARE, 3 FEET LONG, 12 GA
CITY OF HUDSON
TYPICAL TRAFFIC SIGN INSTALLATION
BOULEVARD
LAST REVISION:
March 2019
PLATE NO.
STR-30

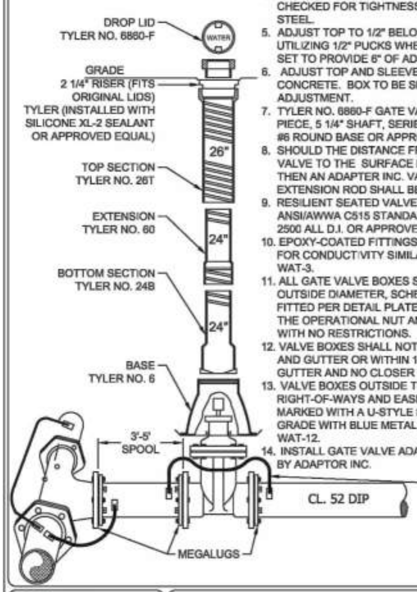

SIGN PANELS SHALL BE MOUNTED ON TOP OF POST
SIGN PANELS AS SPECIFIED OR AS SHOWN ON THE PLANS OR SIGN LEGEND.
TELESPAR SIGN POST
2 INCH 12 GA
STREET SIGNS
1. BREAK OFF TO BE SET AT FINISH GRADE.
2. ANCHOR SLEEVE TO BE SET WITH TWO BOLT HOLES EXPOSED AND ACCESSIBLE ABOVE FINISH GRADE.
3/8" - 90° CORNER BOLT (SIGN POST TO ANCHOR POST)
2-1/2 INCH, 18 INCH LONG OMNI SLEEVE
TELESPAR ANCHOR ASSEMBLY
2-1/4 INCH SQUARE, 3 FEET LONG, 12 GA
CITY OF HUDSON
TYPICAL TRAFFIC SIGN INSTALLATION
STREET NAME BLADE SIGN
LAST REVISION:
March 2019
PLATE NO.
STR-31

2

2

NOTES:

1. NO THREADED INSERT SECTIONS ARE ALLOWED. TYLER 2 1/4" TO 4" RISERS WITH SILICONE XL-2 SEALANT OR APPROVED EQUAL ARE ACCEPTABLE.
2. 7.5' MINIMUM COVER REQUIRED OVER TOP OF WATER MAIN.
3. "MEGALUG" THRUST RESTRAINT GLAND TO BE USED ON ALL MECHANICAL JOINTS.
4. ALL BOLTS ON VALVES BELOW GRADE MUST BE CHECKED FOR TIGHTNESS AND BE 304 STAINLESS STEEL.
5. ADJUST TOP TO 1/2" BELOW GRADE IN ASPHALT, UTILIZING 1/2" PUCKS WHEN PAVING. BOX TO BE SET TO PROVIDE 6" OF ADJUSTMENT.
6. ADJUST TOP AND SLEEVE TO 1/2" BELOW GRADE IN CONCRETE. BOX TO BE SET TO PROVIDE 6" OF ADJUSTMENT.
7. TYLER NO. 6860-F GATE VALVE BOX, SCREW TYPE, 3 PIECE, 5 1/4" SHAFT, SERIES F BOX, 7.5' EXTENDED, #6 ROUND BASE OR APPROVED EQUAL.
8. SHOULD THE DISTANCE FROM THE TOP NUT OF THE VALVE TO THE SURFACE BE GREATER THAN 9'-6", THEN AN ADAPTER INC. VALVE BOX STABILIZER AND EXTENSION ROD SHALL BE USED.
9. RESILIENT SEATED VALVE CONFORMING TO ANSI/AWWA C515 STANDARDS. WATEROUS AFC 2500 ALL D.I. OR APPROVED EQUAL.
10. EPOXY-COATED FITTINGS SHALL BE STRAPPED FOR CONDUCTIVITY SIMILAR TO VALVES, SEE WAT-3.
11. ALL GATE VALVE BOXES SHALL BE PLUMB. A 4 1/4" OUTSIDE DIAMETER, SCHEDULE 3034 PVC PIPE FITTED PER DETAIL PLATE WAT-11 SHALL FIT OVER THE OPERATIONAL NUT AND SLIDE VERTICALLY WITH NO RESTRICTIONS.
12. VALVE BOXES SHALL NOT BE LOCATED IN CURB AND GUTTER OR WITHIN 12" OF LIP OF CURB AND GUTTER AND NO CLOSER THAN 10' TO A BUILDING.
13. VALVE BOXES OUTSIDE THE ROADWAY (SUCH AS RIGHT-OF-WAYS AND EASEMENTS) SHALL BE MARKED WITH A U-STYLE FENCE POST 4' ABOVE GRADE WITH BLUE METAL SIGN LABELED "GV." SEE WAT-12.
14. INSTALL GATE VALVE ADAPTOR MANUFACTURED BY ADAPTOR INC.



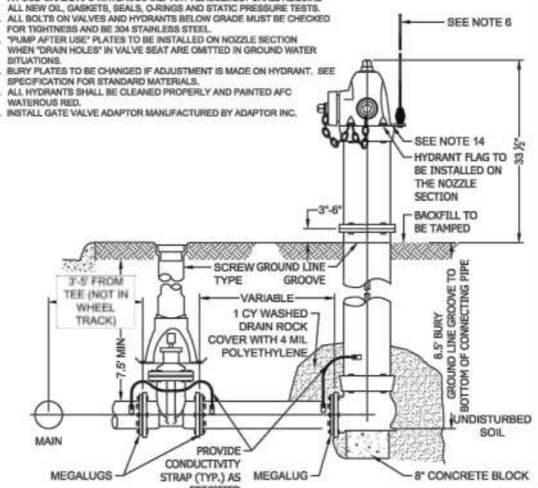
GATE VALVE AND BOX INSTALLATION

LAST REVISION: March 2019

PLATE NO. WAT-1

NOTES:

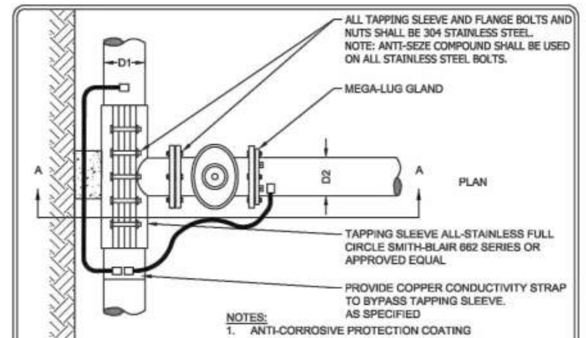
1. ALL HYDRANT LEADS SHALL BE VALVED.
2. HYDRANTS TO BE 7' BEHIND BACK OF CURB.
3. HYDRANTS AT INTERSECTIONS TO BE 10' FROM PROPERTY CORNER OR IN ACCORDANCE WITH NO. 4 BELOW
4. NO HYDRANTS SHALL BE LOCATED BETWEEN OR WITHIN 5' OF P.C. OR P.T. OF INTERSECTION RADII.
5. HYDRANT TO BE WATEROUS AFCWB-67-250 PACER (8.5' BURY WITH 18" BREAKOFF, 6" MECHANICAL JOINT INLET, AND 1-1/2" (FTP) PENTAGON 2-PIECE OPERATING NUT WITH WEATHER SHIELD - OPEN LEFT). EXTENSION KITS TO BE AFC WATEROUS.
6. ONE (1) 5' E-Z GUIDE SAFETY MARKER WITH SPRING BASE HYDRANT FLAG PER FIRE HYDRANT IS REQUIRED.
7. "MEGALUG" THRUST RESTRAINT GLANDS ARE REQUIRED ON ALL HYDRANT LEAD JOINTS BACK TO THE WATER MAIN.
8. HYDRANTS SHALL BE MARKED WITH APPROVED "OUT OF SERVICE" TAGS WHEN INSTALLED.
9. EXTENSIONS MAY BE USED UP TO 42". GRADE-LOK FITTINGS ARE APPROVED AND PREFERRED.
10. WHEN INSTALLING A VALVE ROD EXTENSION, THE NONBREAKABLE COUPLING SLEEVES GO ON THE BOTTOM AND THE BREAKABLE SLEEVES GO ON THE TOP OF THE EXTENSION ROD. VERIFY "TOP AND BOTTOM" OF BREAKOFF SECTION.
11. THE AFCWB-67-250 PACER REQUIRES THE OIL RESERVOIR BE FILLED WITH A FOOD GRADE AFC WATEROUS OIL. ANY REASSEMBLY SHALL REQUIRE ALL NEW OIL, GASKETS, SEALS, O-RINGS AND STATIC PRESSURE TESTS.
12. ALL BOLTS ON VALVES AND HYDRANTS BELOW GRADE MUST BE CHECKED FOR TIGHTNESS AND BE 304 STAINLESS STEEL.
13. "PUMP AFTER USE" PLATES TO BE INSTALLED ON NOZZLE SECTION WHEN "DRAIN HOLES" IN VALVE SEAT ARE OMITTED IN GROUND WATER SITUATIONS.
14. BURY PLATES TO BE CHANGED IF ADJUSTMENT IS MADE ON HYDRANT. SEE SPECIFICATION FOR STANDARD MATERIALS.
15. ALL HYDRANTS SHALL BE CLEANED PROPERLY AND PAINTED AFC WATEROUS RED.
16. INSTALL GATE VALVE ADAPTOR MANUFACTURED BY ADAPTOR INC.



HYDRANT W/ GATE VALVE & BOX INSTALLATION

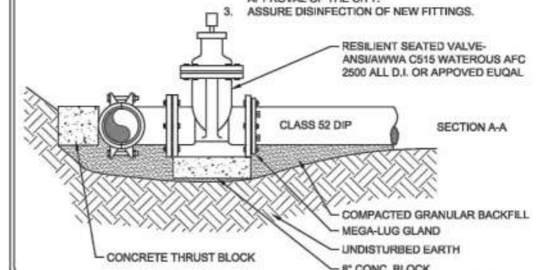
LAST REVISION: March 2019

PLATE NO. WAT-2



NOTES:

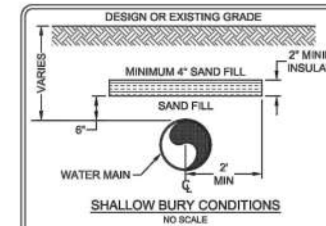
1. ANTI-CORROSIVE PROTECTION COATING REQUIRED ON ALL GRINDED AND WELDED AREAS.
2. 7.5' COVER REQUIRED OVER TOP OF WATER MAIN. ANY THING <7.5' OR >8.5' SHALL REQUIRE APPROVAL OF THE CITY.
3. ASSURE DISINFECTION OF NEW FITTINGS.



WATER MAIN WET TAP

LAST REVISION: March 2019

PLATE NO. WAT-3

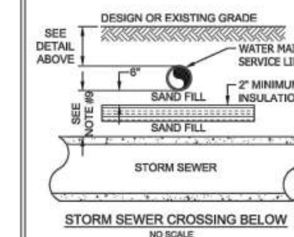


SHALLOW BURY CONDITIONS

NO SCALE

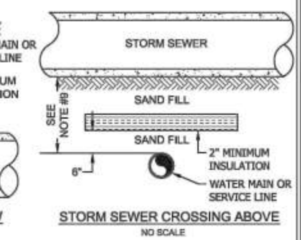
WIDTH OF INSULATION BETWEEN WATER MAIN AND STORM SEWER

STORM SEWER	WATER LINE	
	1" TO 4"	6" TO 12"
12" TO 48"	2'	4'
54" & LARGER	4'	8'



STORM SEWER CROSSING BELOW

NO SCALE



STORM SEWER CROSSING ABOVE

NO SCALE

NOTES:

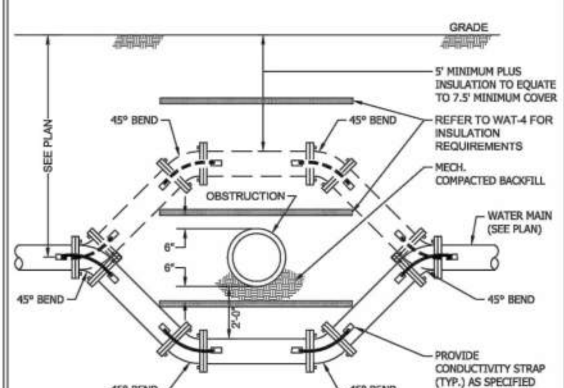
1. INSULATION SHALL BE CENTERED ON THE PIPE.
2. RIGID, EXTRUDED POLYSTYRENE BOARD INSULATION, CLOSED CELL (DOW CHEMICAL) OR APPROVED EQUAL.
3. THERMAL RESISTANCE (R): 5.0.
4. MINIMUM THICKNESS: 2 INCHES.
5. BOARD SIZE: 48"x96".
6. COMPRESSIVE STRENGTH: MINIMUM 25 psi.
7. WATER ABSORPTION IN ACCORDANCE WITH ANSI/ASTM D2842: 0.1 PERCENT BY VOLUME, MAXIMUM.
8. EDGES: SQUARE.
9. ALL STORM SEWER CONFLICTS OR INTERSECTIONS SHALL BE INSULATED AS APPROVED BY FIELD ENGINEER TO EQUATE TO 7.5 FEET OF MINIMUM COVER (1 INCH CLOSED CELL INSULATION = 1 FOOT OF SOIL).
10. INSULATION LENGTH ALONG WATER LINE SHALL BE A MINIMUM OF 4 FEET GREATER THAN THE OUTSIDE DIAMETER OF THE STORM SEWER PIPE.

INSULATION DETAIL

LAST REVISION: March 2019

PLATE NO. WAT-4

2



TIE ALL JOINTS WITH MEGALUGS (8 REQ.)

NOTE:

1. WATER MAIN OFFSET SHALL BE OVER OBSTRUCTION IF 5' MINIMUM COVER PLUS INSULATION TO EQUATE TO 7.5' COVER CAN BE ACHIEVED.
2. ADDITIONAL INSULATION BETWEEN WATER MAIN AND OBSTRUCTED PIPE MAY BE REQUIRED AS PER DETAIL PLATE WAT-4.

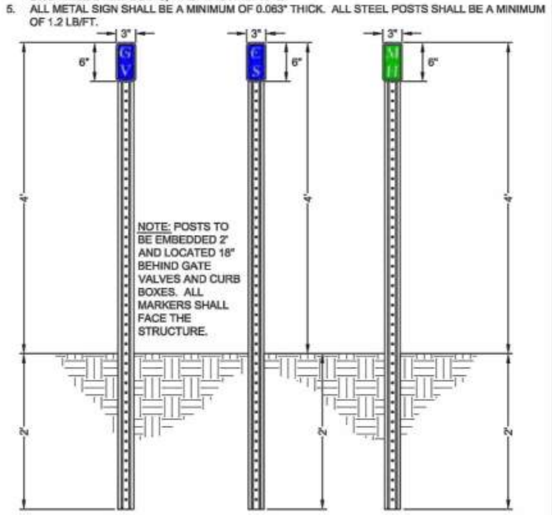
WATER MAIN OFFSET WITH MEGALUGS

LAST REVISION: March 2019

PLATE NO. WAT-6

NOTES:

1. ALL MANHOLES INSTALLED OUTSIDE THE ROADWAY (SUCH AS RIGHT-OF-WAYS AND EASEMENTS) SHALL BE MARKED WITH A GREEN METAL SIGN LABELED "MH" IN WHITE LETTERS.
2. ALL GATE VALVES INSTALLED OUTSIDE THE ROADWAY (SUCH AS RIGHT-OF-WAYS AND EASEMENTS) SHALL BE MARKED WITH A BLUE METAL SIGN LABELED "GV" IN WHITE LETTERS.
3. ALL CURB BOXES LOCATED IN UNIMPROVED RIGHT-OF-WAYS AND EASEMENTS SHALL BE MARKED WITH A BLUE METAL SIGN LABELED "CS" IN WHITE LETTERS.
4. SIGNS SHALL BE MOUNTED TO A U-STYLE STEEL POST 4' ABOVE GRADE WITH TWO SETS OF STAINLESS STEEL BOLTS, WASHERS AND NUTS.
5. ALL METAL SIGN SHALL BE A MINIMUM OF 0.063" THICK. ALL STEEL POSTS SHALL BE A MINIMUM OF 1.2 LB/FT.



GATE VALVE, CURB STAND, AND MANHOLE MARKERS WITH STEEL POSTS

LAST REVISION: March 2019

PLATE NO. WAT-11

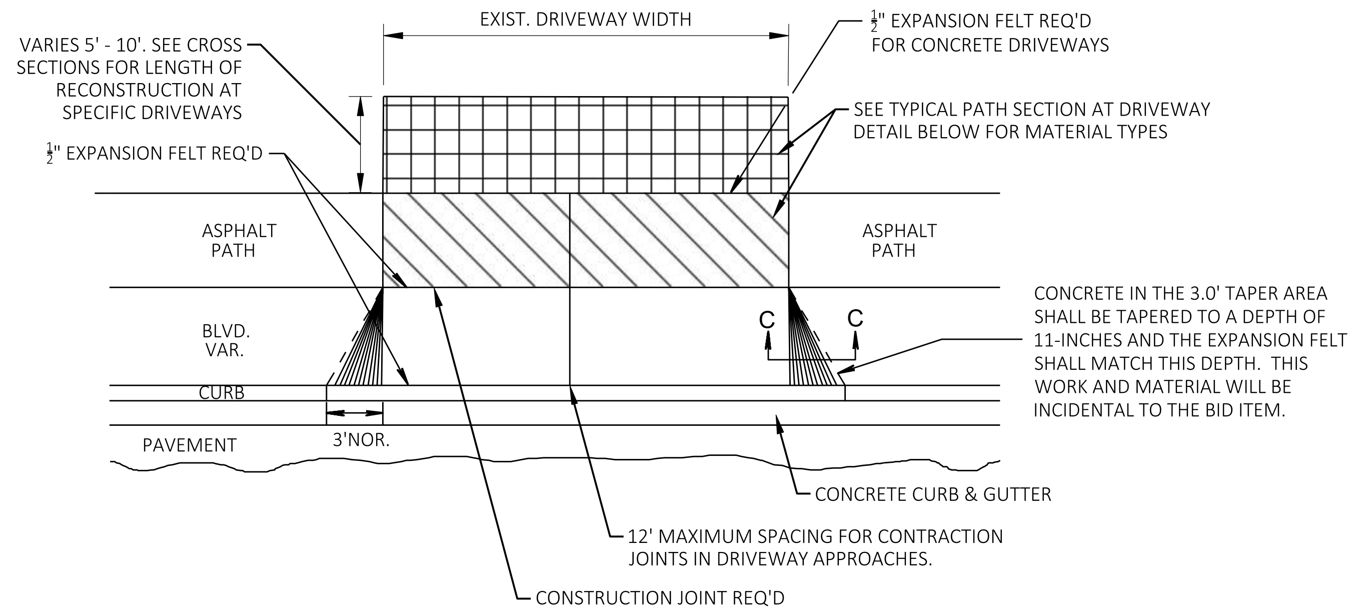
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CONSTRUCTION DETAILS	SHEET 11	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - 021006-cd

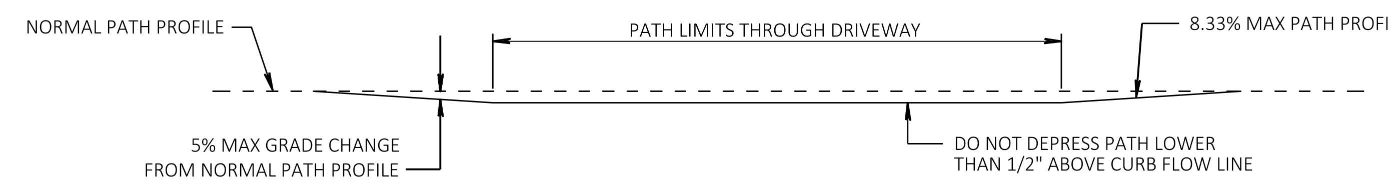
PLOT DATE : 11/19/2024 3:39 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

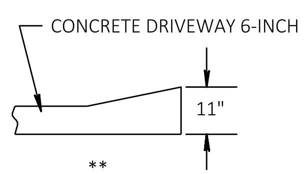
2



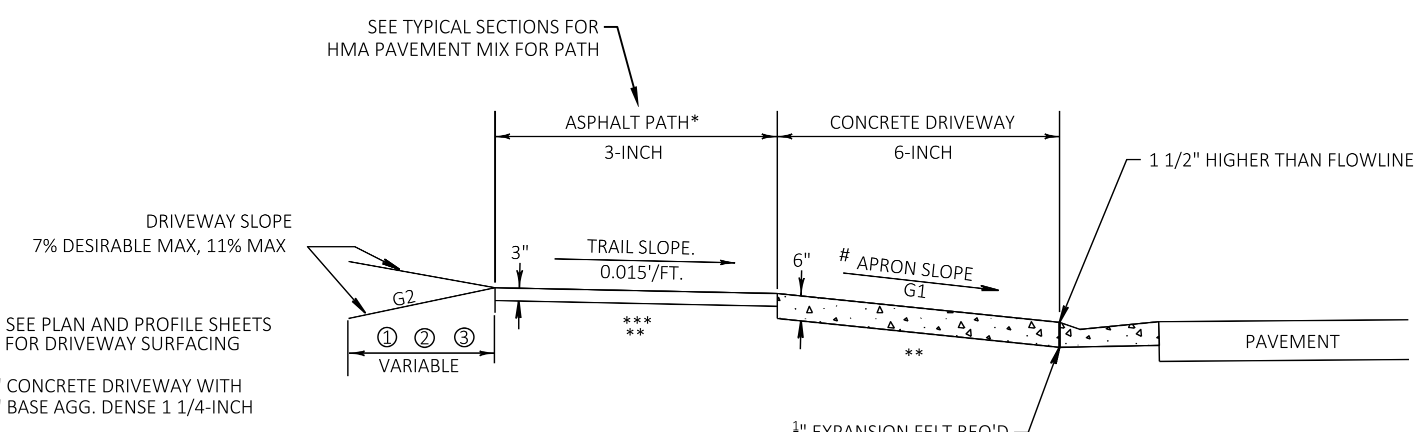
PLAN VIEW



DEPRESSED PATH PROFILE DETAIL



SECTION C-C



NOTE: SEE PLAN AND PROFILE SHEETS FOR DRIVEWAY SURFACING

① – 6" CONCRETE DRIVEWAY WITH 6" BASE AGG. DENSE 1 1/4-INCH

② – 8" BASE AGG. DENSE 1 1/4-INCH

③ – 3" ASPHALTIC SURFACE WITH 6" BASE AGG. DENSE 1 1/4-INCH

* = WHEN EXISTING DRIVEWAY IS CONCRETE, ASPHALT PATH WILL BE REPLACED WITH CONCRETE DRIVEWAY 6-INCH THROUGH DRIVEWAY. INCLUDE EXPANSION FELT AT FRONT & BACK OF PATH.

** = 6" BASE AGG. DENSE 1 1/4-INCH REQUIRED UNDER CONCRETE DRIVEWAY

*** = 6" PULVERIZED BASE REQUIRED UNDER ASPHALT PATH

TYPICAL PATH SECTION AT DRIVEWAY

APRON SLOPE G1 TO BE MIN 1% AND MAX 10%. SEE CROSS SECTIONS FOR SPECIFIC DRIVEWAY SLOPES.

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

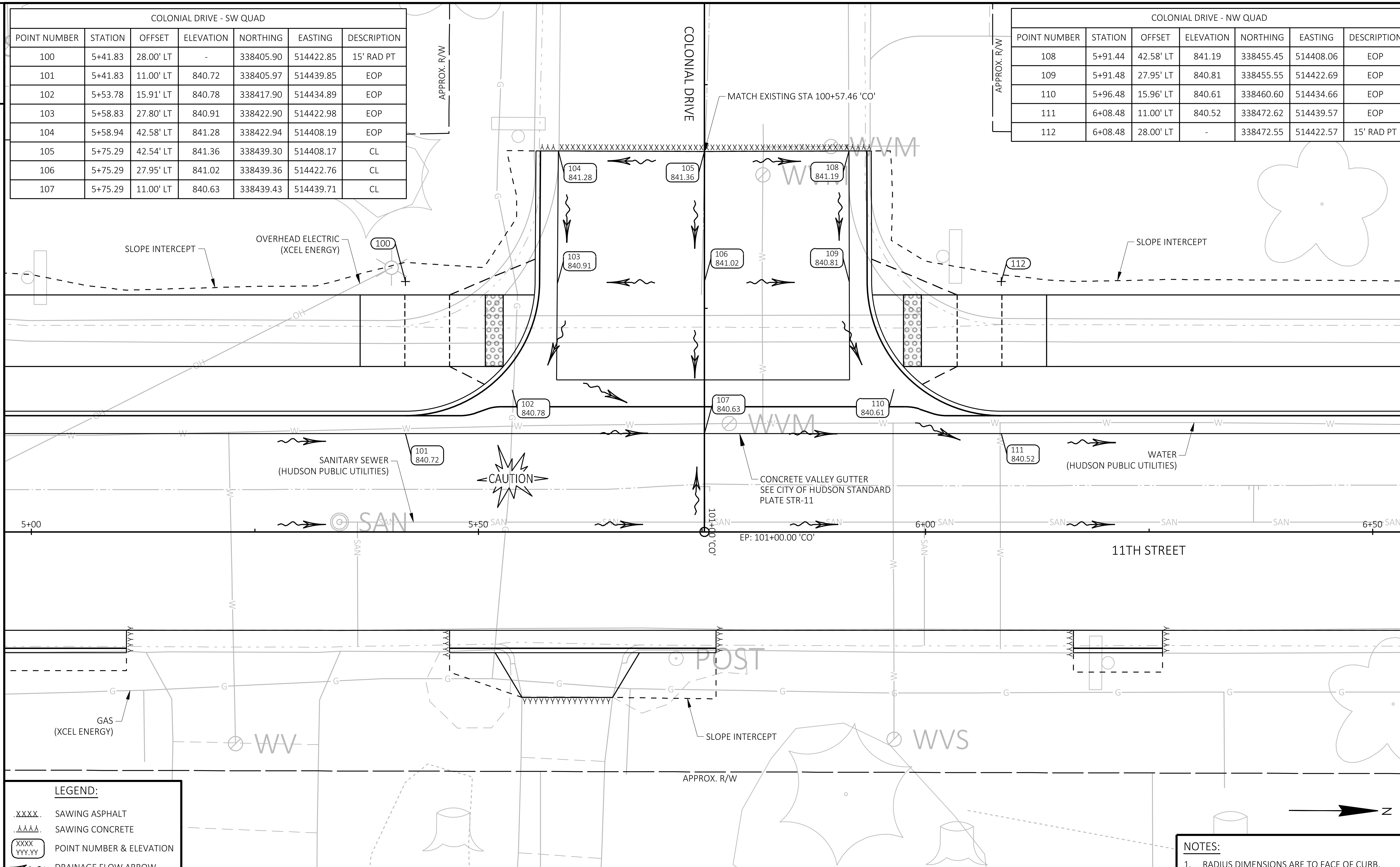
DEPRESS PATH PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE OR TO PROMOTE DRAINAGE TO STREET

2

COLONIAL DRIVE - SW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
100	5+41.83	28.00' LT	-	338405.90	514422.85	15' RAD PT
101	5+41.83	11.00' LT	840.72	338405.97	514439.85	EOP
102	5+53.78	15.91' LT	840.78	338417.90	514434.89	EOP
103	5+58.83	27.80' LT	840.91	338422.90	514422.98	EOP
104	5+58.94	42.58' LT	841.28	338422.94	514408.19	EOP
105	5+75.29	42.54' LT	841.36	338439.30	514408.17	CL
106	5+75.29	27.95' LT	841.02	338439.36	514422.76	CL
107	5+75.29	11.00' LT	840.63	338439.43	514439.71	CL

COLONIAL DRIVE - NW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
108	5+91.44	42.58' LT	841.19	338455.45	514408.06	EOP
109	5+91.48	27.95' LT	840.81	338455.55	514422.69	EOP
110	5+96.48	15.96' LT	840.61	338460.60	514434.66	EOP
111	6+08.48	11.00' LT	840.52	338472.62	514439.57	EOP
112	6+08.48	28.00' LT	-	338472.55	514422.57	15' RAD PT

2



LEGEND:

XXXX SAWING ASPHALT
ΛΛΛΛ SAWING CONCRETE
XXXX YYY.YY POINT NUMBER & ELEVATION
DRAINAGE FLOW ARROW

NOTES:

1. RADIUS DIMENSIONS ARE TO FACE OF CURB.

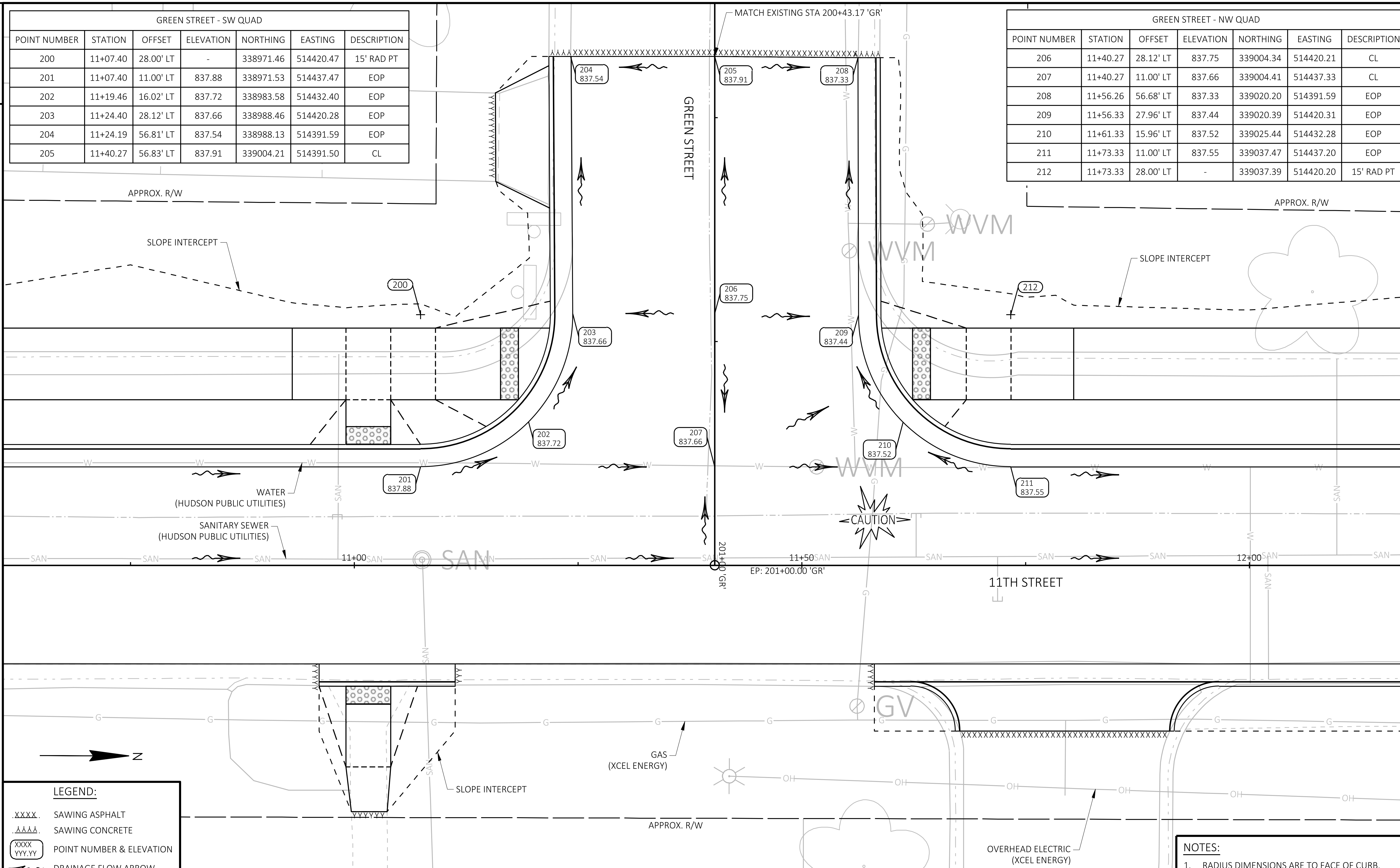
PROJECT NO: 8999-00-87 | HWY: LOCAL STREET | COUNTY: ST. CROIX | INTERSECTION DETAILS | SHEET 13 | E

2

GREEN STREET - SW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
200	11+07.40	28.00' LT	-	338971.46	514420.47	15' RAD PT
201	11+07.40	11.00' LT	837.88	338971.53	514437.47	EOP
202	11+19.46	16.02' LT	837.72	338983.58	514432.40	EOP
203	11+24.40	28.12' LT	837.66	338988.46	514420.28	EOP
204	11+24.19	56.81' LT	837.54	338988.13	514391.59	EOP
205	11+40.27	56.83' LT	837.91	339004.21	514391.50	CL

GREEN STREET - NW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
206	11+40.27	28.12' LT	837.75	339004.34	514420.21	CL
207	11+40.27	11.00' LT	837.66	339004.41	514437.33	CL
208	11+56.26	56.68' LT	837.33	339020.20	514391.59	EOP
209	11+56.33	27.96' LT	837.44	339020.39	514420.31	EOP
210	11+61.33	15.96' LT	837.52	339025.44	514432.28	EOP
211	11+73.33	11.00' LT	837.55	339037.47	514437.20	EOP
212	11+73.33	28.00' LT	-	339037.39	514420.20	15' RAD PT

2



LEGEND:

- XXXX SAWING ASPHALT
- ⅄⅄⅄⅄ SAWING CONCRETE
- XXXX YYY.YY POINT NUMBER & ELEVATION
- DRAINAGE FLOW ARROW

NOTES:

1. RADIUS DIMENSIONS ARE TO FACE OF CURB.

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	INTERSECTION DETAILS	SHEET 14	E

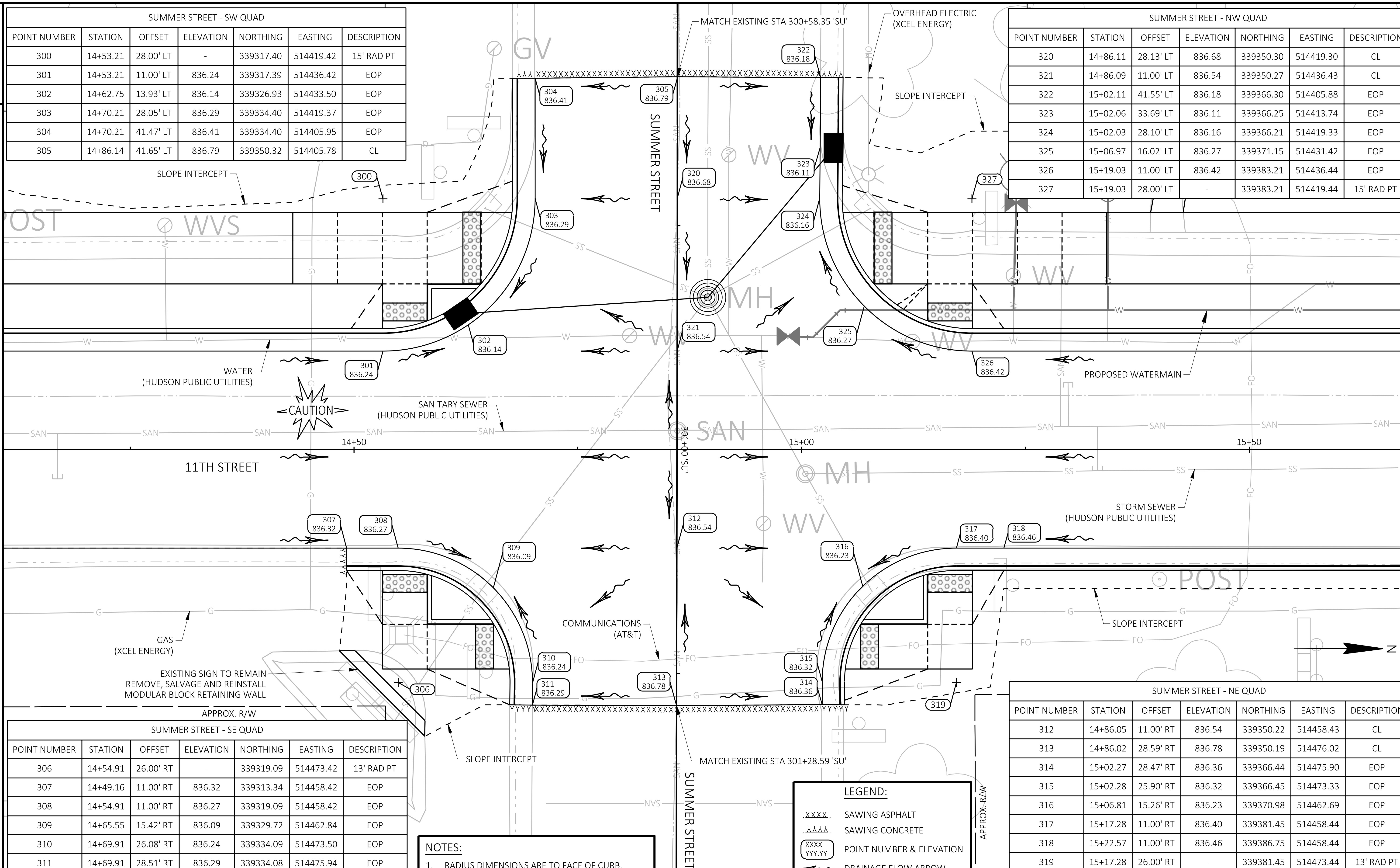
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\021101-ID.DWG LAYOUT NAME - 021102-id PLOT DATE : 7/29/2024 10:50 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

2

SUMMER STREET - SW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
300	14+53.21	28.00' LT	-	339317.40	514419.42	15' RAD PT
301	14+53.21	11.00' LT	836.24	339317.39	514436.42	EOP
302	14+62.75	13.93' LT	836.14	339326.93	514433.50	EOP
303	14+70.21	28.05' LT	836.29	339334.40	514419.37	EOP
304	14+70.21	41.47' LT	836.41	339334.40	514405.95	EOP
305	14+86.14	41.65' LT	836.79	339350.32	514405.78	CL

SUMMER STREET - NW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
320	14+86.11	28.13' LT	836.68	339350.30	514419.30	CL
321	14+86.09	11.00' LT	836.54	339350.27	514436.43	CL
322	15+02.11	41.55' LT	836.18	339366.30	514405.88	EOP
323	15+02.06	33.69' LT	836.11	339366.25	514413.74	EOP
324	15+02.03	28.10' LT	836.16	339366.21	514419.33	EOP
325	15+06.97	16.02' LT	836.27	339371.15	514431.42	EOP
326	15+19.03	11.00' LT	836.42	339383.21	514436.44	EOP
327	15+19.03	28.00' LT	-	339383.21	514419.44	15' RAD PT

2



SUMMER STREET - SE QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
306	14+54.91	26.00' RT	-	339319.09	514473.42	13' RAD PT
307	14+49.16	11.00' RT	836.32	339313.34	514458.42	EOP
308	14+54.91	11.00' RT	836.27	339319.09	514458.42	EOP
309	14+65.55	15.42' RT	836.09	339329.72	514462.84	EOP
310	14+69.91	26.08' RT	836.24	339334.09	514473.50	EOP
311	14+69.91	28.51' RT	836.29	339334.08	514475.94	EOP

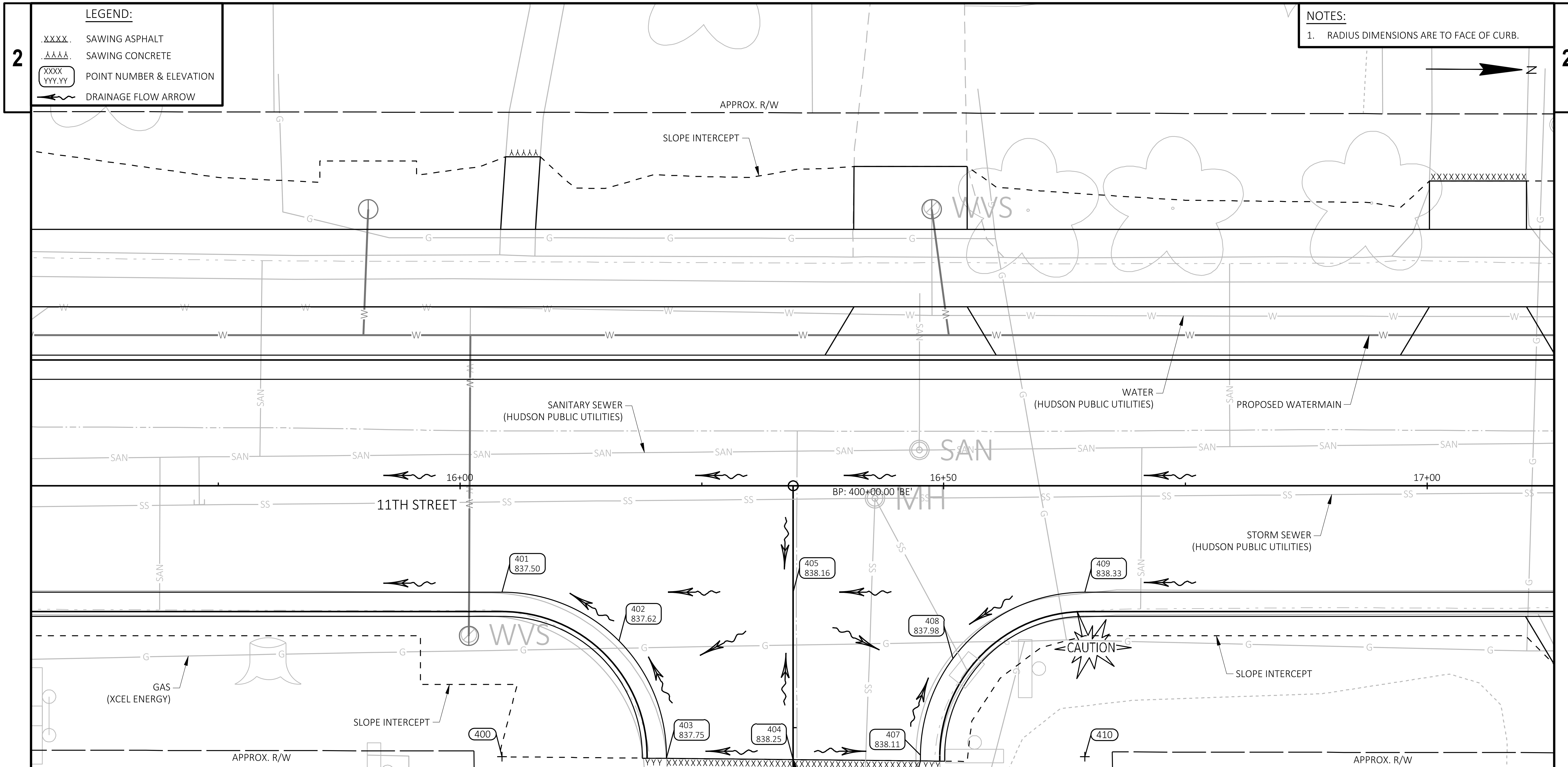
NOTES:

1. RADIUS DIMENSIONS ARE TO FACE OF CURB.

LEGEND:

- XXXX SAWING ASPHALT
- ᴧᴧᴧᴧ SAWING CONCRETE
- XXXX / YYY.YY POINT NUMBER & ELEVATION
- DRAINAGE FLOW ARROW

SUMMER STREET - NE QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
312	14+86.05	11.00' RT	836.54	339350.22	514458.43	CL
313	14+86.02	28.59' RT	836.78	339350.19	514476.02	CL
314	15+02.27	28.47' RT	836.36	339366.44	514475.90	EOP
315	15+02.28	25.90' RT	836.32	339366.45	514473.33	EOP
316	15+06.81	15.26' RT	836.23	339370.98	514462.69	EOP
317	15+17.28	11.00' RT	836.40	339381.45	514458.44	EOP
318	15+22.57	11.00' RT	836.46	339386.75	514458.44	EOP
319	15+17.28	26.00' RT	-	339381.45	514473.44	13' RAD PT



BEALL STREET - SE QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
400	16+04.35	28.00' RT	-	339468.53	514475.46	17' RAD PT
401	16+04.35	11.00' RT	837.50	339468.53	514458.46	EOP
402	16+16.43	16.04' RT	837.62	339480.61	514463.50	EOP
403	16+21.35	28.17' RT	837.75	339485.52	514475.63	EOP
404	16+34.45	28.30' RT	838.25	339498.62	514475.76	CL
405	16+34.45	11.00' RT	838.16	339498.62	514458.46	CL

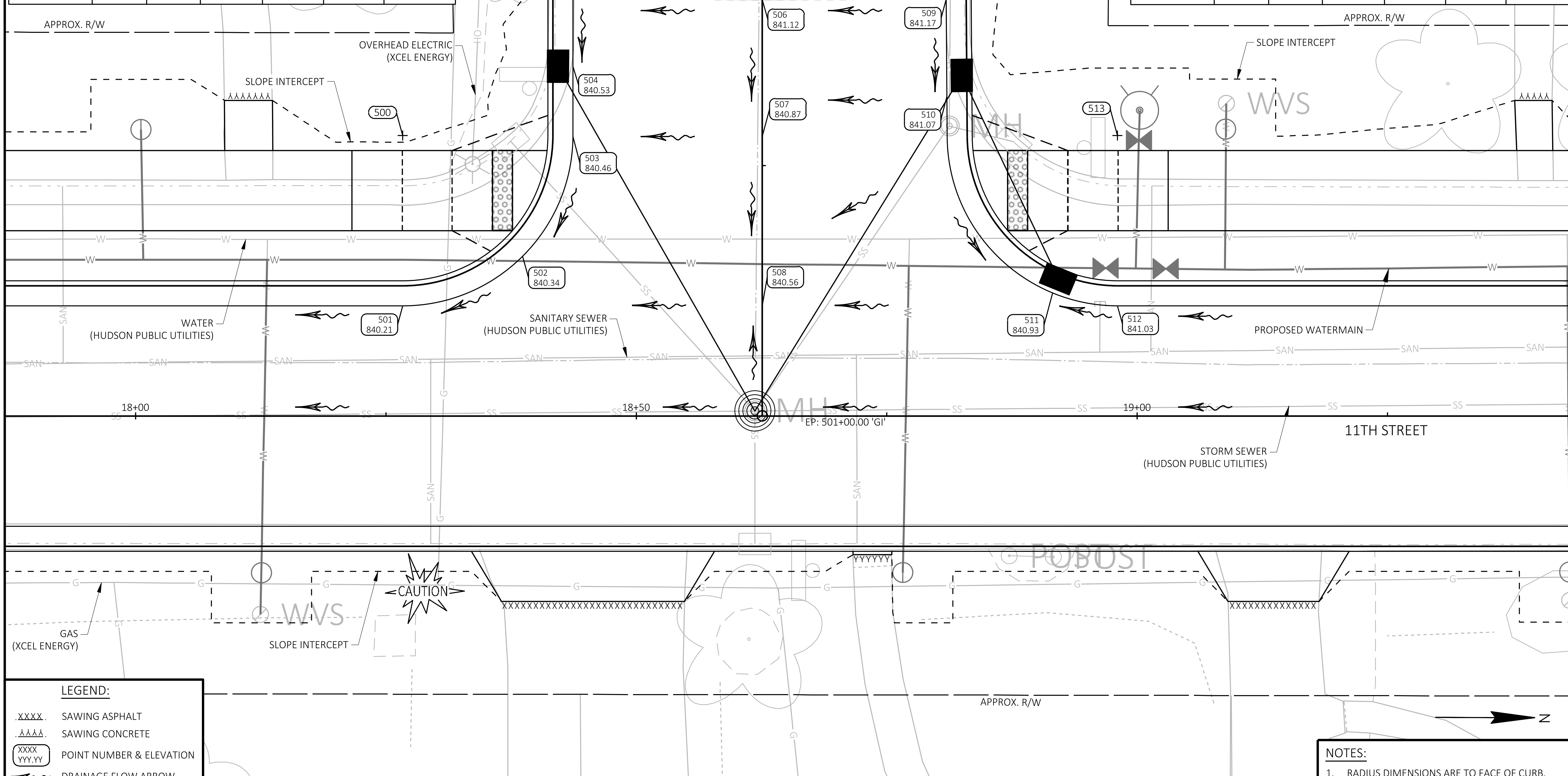
BEALL STREET - NE QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
406	16+47.61	28.43' RT	838.12	339511.78	514475.90	EOP
407	16+47.61	27.83' RT	838.11	339511.79	514475.29	EOP
408	16+50.96	17.87' RT	837.98	339515.13	514465.34	EOP
409	16+64.61	11.00' RT	838.33	339528.79	514458.47	EOP
410	16+64.61	28.00' RT	-	339528.79	514475.47	17' RAD PT

2

GIRARD STREET - SW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
500	18+26.66	28.00' LT	-	339690.85	514419.51	15' RAD PT
501	18+26.66	11.00' LT	840.21	339690.84	514436.51	EOP
502	18+38.64	15.94' LT	840.34	339702.82	514431.58	EOP
503	18+43.66	27.88' LT	840.46	339707.84	514419.63	EOP
504	18+43.67	34.89' LT	840.53	339707.86	514412.62	EOP
505	18+43.68	41.59' LT	840.60	339707.87	514405.93	EOP
506	18+62.57	41.56' LT	841.12	339726.76	514405.96	CL

GIRARD STREET - NW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
507	18+62.57	27.88' LT	840.87	339726.76	514419.64	CL
508	18+62.57	11.00' LT	840.56	339726.76	514436.52	CL
509	18+80.92	41.57' LT	841.17	339745.11	514405.95	EOP
510	18+81.00	31.86' LT	841.07	339745.19	514415.66	EOP
511	18+91.55	12.28' LT	840.93	339755.73	514435.24	EOP
512	18+98.03	11.00' LT	841.03	339762.21	514436.53	EOP
513	18+98.03	28.00' LT	-	339762.22	514419.53	15' RAD PT

2



LEGEND:

- XXXX SAWING ASPHALT
- ⅄⅄⅄⅄ SAWING CONCRETE
- XXXX YYY.YY POINT NUMBER & ELEVATION
- DRAINAGE FLOW ARROW

NOTES:

1. RADIUS DIMENSIONS ARE TO FACE OF CURB.

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	INTERSECTION DETAILS	SHEET 17	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021105-id
PLOT DATE : 7/29/2024 10:50 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

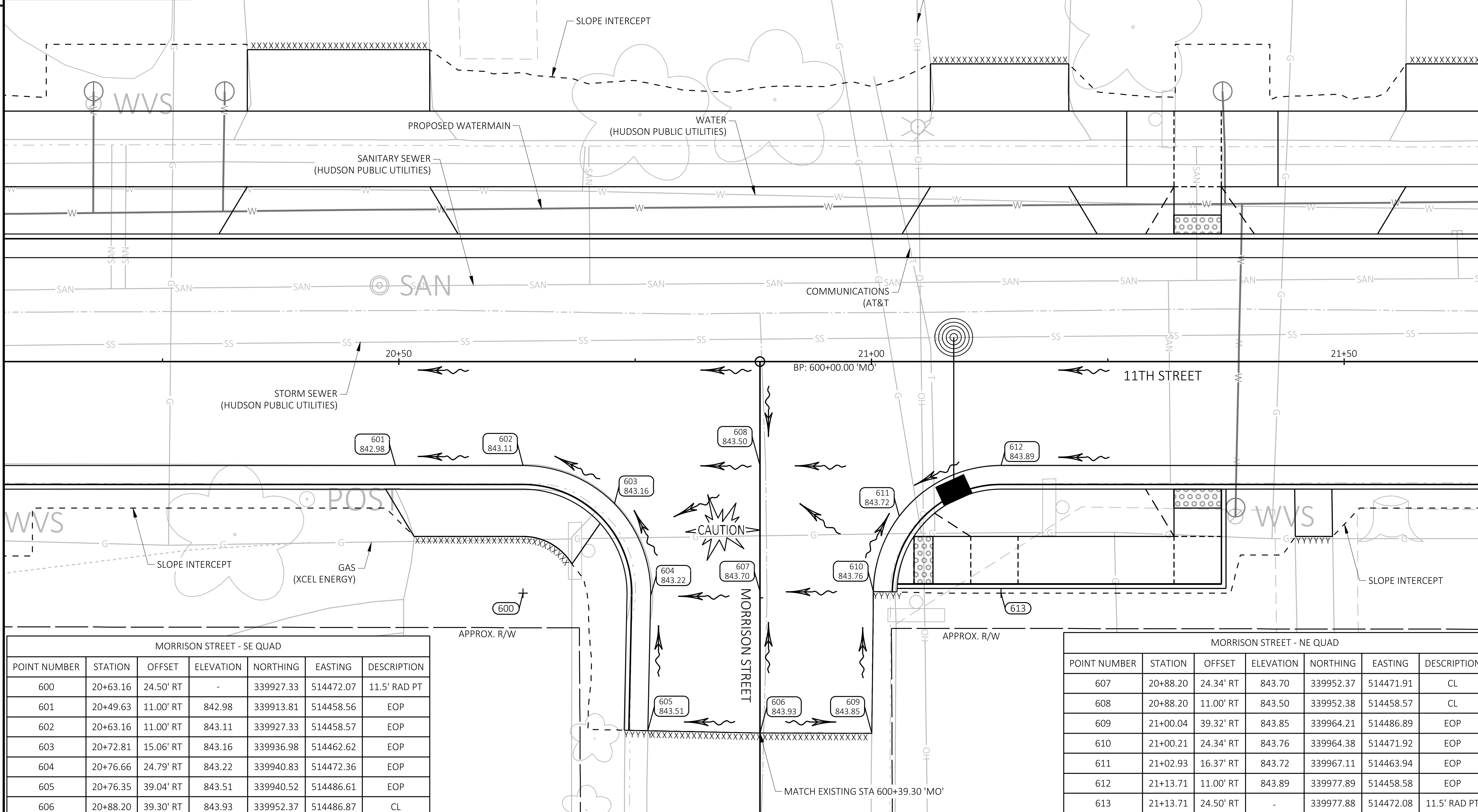
LEGEND:

- XXXX SAWING ASPHALT
- ⅄⅄⅄⅄ SAWING CONCRETE
- XXXX / YYY.YY POINT NUMBER & ELEVATION
- DRAINAGE FLOW ARROW

NOTES:

1. RADIUS DIMENSIONS ARE TO FACE OF CURB.

2



MORRISON STREET - SE QUAD

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
600	20+63.16	24.50' RT	-	339927.33	514472.07	11.5' RAD PT
601	20+49.63	11.00' RT	842.98	339913.81	514458.56	EOP
602	20+63.16	11.00' RT	843.11	339927.33	514458.57	EOP
603	20+72.81	15.06' RT	843.16	339936.98	514462.62	EOP
604	20+76.66	24.79' RT	843.22	339940.83	514472.36	EOP
605	20+76.35	39.04' RT	843.51	339940.52	514486.61	EOP
606	20+88.20	39.30' RT	843.93	339952.37	514486.87	CL

MORRISON STREET - NE QUAD

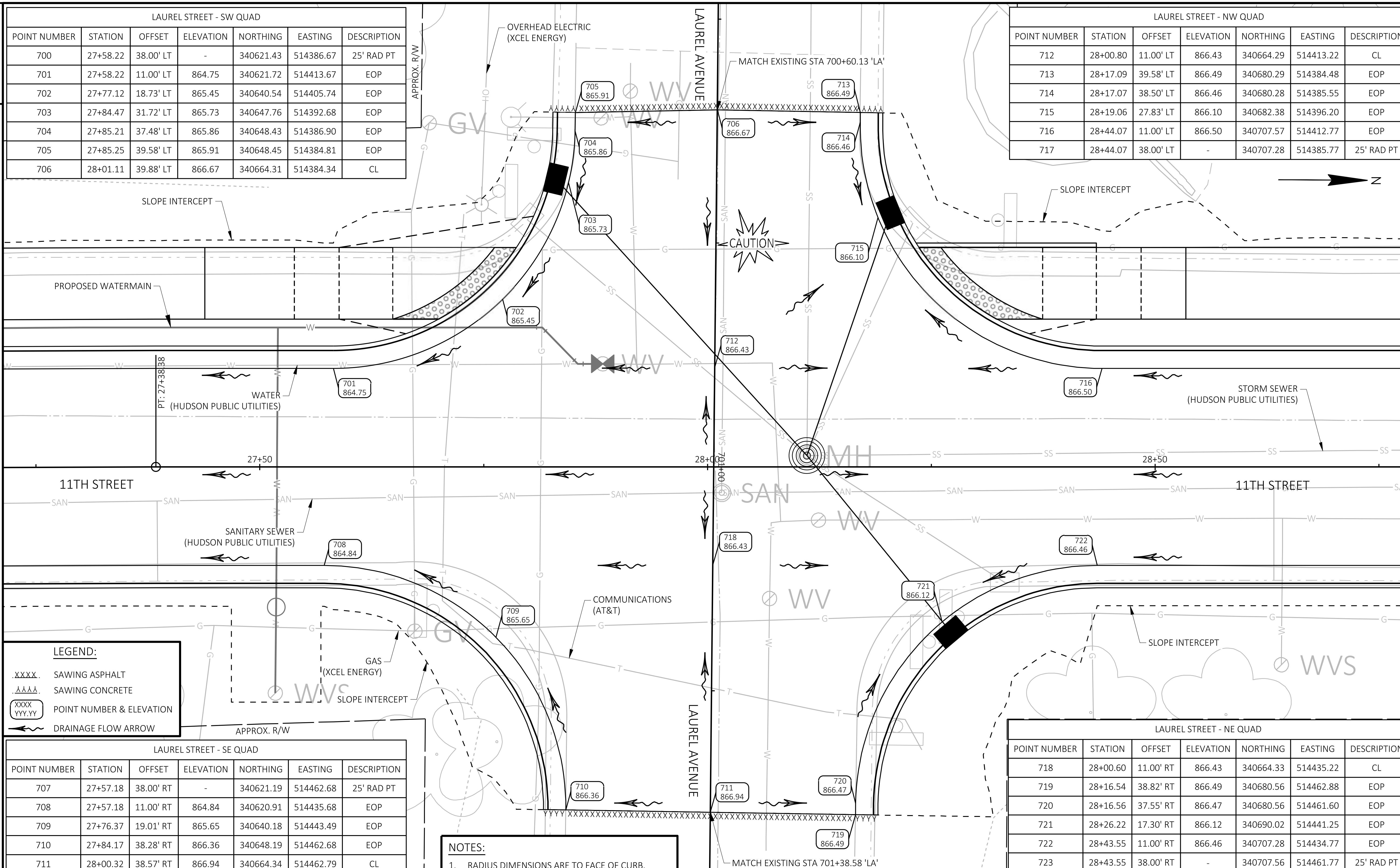
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
607	20+88.20	24.34' RT	843.70	339952.37	514471.91	CL
608	20+88.20	11.00' RT	843.50	339952.38	514458.57	CL
609	21+00.04	39.32' RT	843.85	339964.21	514486.89	EOP
610	21+00.21	24.34' RT	843.76	339964.38	514471.92	EOP
611	21+02.93	16.37' RT	843.72	339967.11	514463.94	EOP
612	21+13.71	11.00' RT	843.89	339977.89	514458.58	EOP
613	21+13.71	24.50' RT	-	339977.88	514472.08	11.5' RAD PT

LAUREL STREET - SW QUAD

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
700	27+58.22	38.00' LT	-	340621.43	514386.67	25' RAD PT
701	27+58.22	11.00' LT	864.75	340621.72	514413.67	EOP
702	27+77.12	18.73' LT	865.45	340640.54	514405.74	EOP
703	27+84.47	31.72' LT	865.73	340647.76	514392.68	EOP
704	27+85.21	37.48' LT	865.86	340648.43	514386.90	EOP
705	27+85.25	39.58' LT	865.91	340648.45	514384.81	EOP
706	28+01.11	39.88' LT	866.67	340664.31	514384.34	CL

LAUREL STREET - NW QUAD

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
712	28+00.80	11.00' LT	866.43	340664.29	514413.22	CL
713	28+17.09	39.58' LT	866.49	340680.29	514384.48	EOP
714	28+17.07	38.50' LT	866.46	340680.28	514385.55	EOP
715	28+19.06	27.83' LT	866.10	340682.38	514396.20	EOP
716	28+44.07	11.00' LT	866.50	340707.57	514412.77	EOP
717	28+44.07	38.00' LT	-	340707.28	514385.77	25' RAD PT



LEGEND:

- XXXX SAWING ASPHALT
- ⅄⅄⅄⅄ SAWING CONCRETE
- XXXX / YYY.YY POINT NUMBER & ELEVATION
- DRAINAGE FLOW ARROW

LAUREL STREET - SE QUAD

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
707	27+57.18	38.00' RT	-	340621.19	514462.68	25' RAD PT
708	27+57.18	11.00' RT	864.84	340620.91	514435.68	EOP
709	27+76.37	19.01' RT	865.65	340640.18	514443.49	EOP
710	27+84.17	38.28' RT	866.36	340648.19	514462.68	EOP
711	28+00.32	38.57' RT	866.94	340664.34	514462.79	CL

NOTES:

1. RADIUS DIMENSIONS ARE TO FACE OF CURB.

LAUREL STREET - NE QUAD

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
718	28+00.60	11.00' RT	866.43	340664.33	514435.22	CL
719	28+16.54	38.82' RT	866.49	340680.56	514462.88	EOP
720	28+16.56	37.55' RT	866.47	340680.56	514461.60	EOP
721	28+26.22	17.30' RT	866.12	340690.02	514441.25	EOP
722	28+43.55	11.00' RT	866.46	340707.28	514434.77	EOP
723	28+43.55	38.00' RT	-	340707.56	514461.77	25' RAD PT

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KINNICKINNIC STREET - SW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
800	32+38.15	28.00' LT	880.99	341101.45	514391.63	25' RAD PT
801	32+38.15	11.00' LT	879.51	341101.63	514408.63	EOP
802	32+50.18	15.99' LT	879.62	341113.60	514403.52	EOP
803	32+55.15	28.02' LT	879.83	341118.45	514391.44	EOP
804	32+55.14	39.54' LT	880.68	341118.31	514379.91	EOP
805	32+71.19	39.60' LT	880.77	341134.37	514379.69	CL

KINNICKINNIC STREET - NW QUAD						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
806	32+71.19	27.94' LT	880.13	341134.49	514391.35	CL
807	32+71.19	11.00' LT	879.66	341134.67	514408.29	CL
808	32+87.32	39.66' LT	880.89	341150.49	514379.46	EOP
809	32+87.36	27.94' LT	880.04	341150.66	514391.18	EOP
810	32+96.33	13.02' LT	879.78	341159.78	514406.01	EOP
811	33+04.36	11.00' LT	879.81	341167.84	514407.94	EOP
812	33+04.36	28.00' LT	881.45	341167.66	514390.94	15' RAD PT

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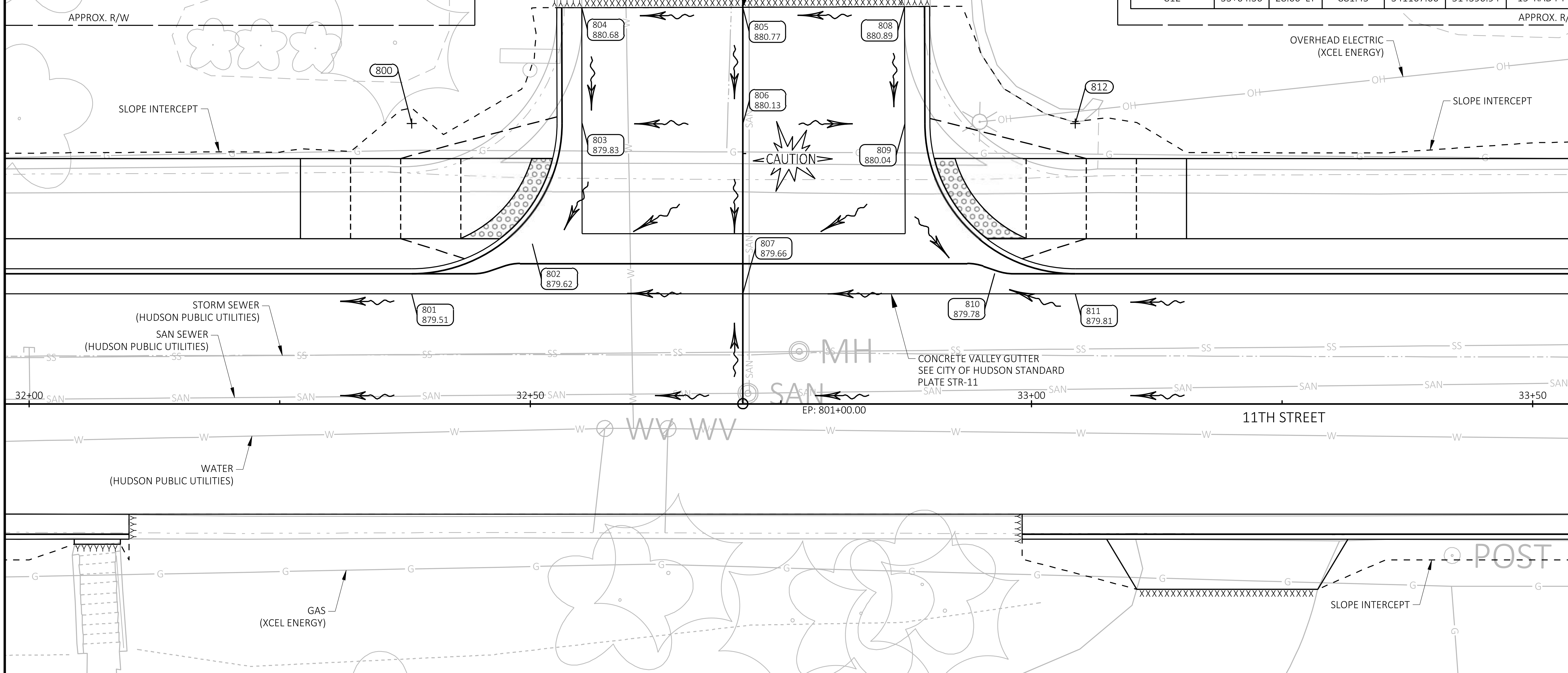


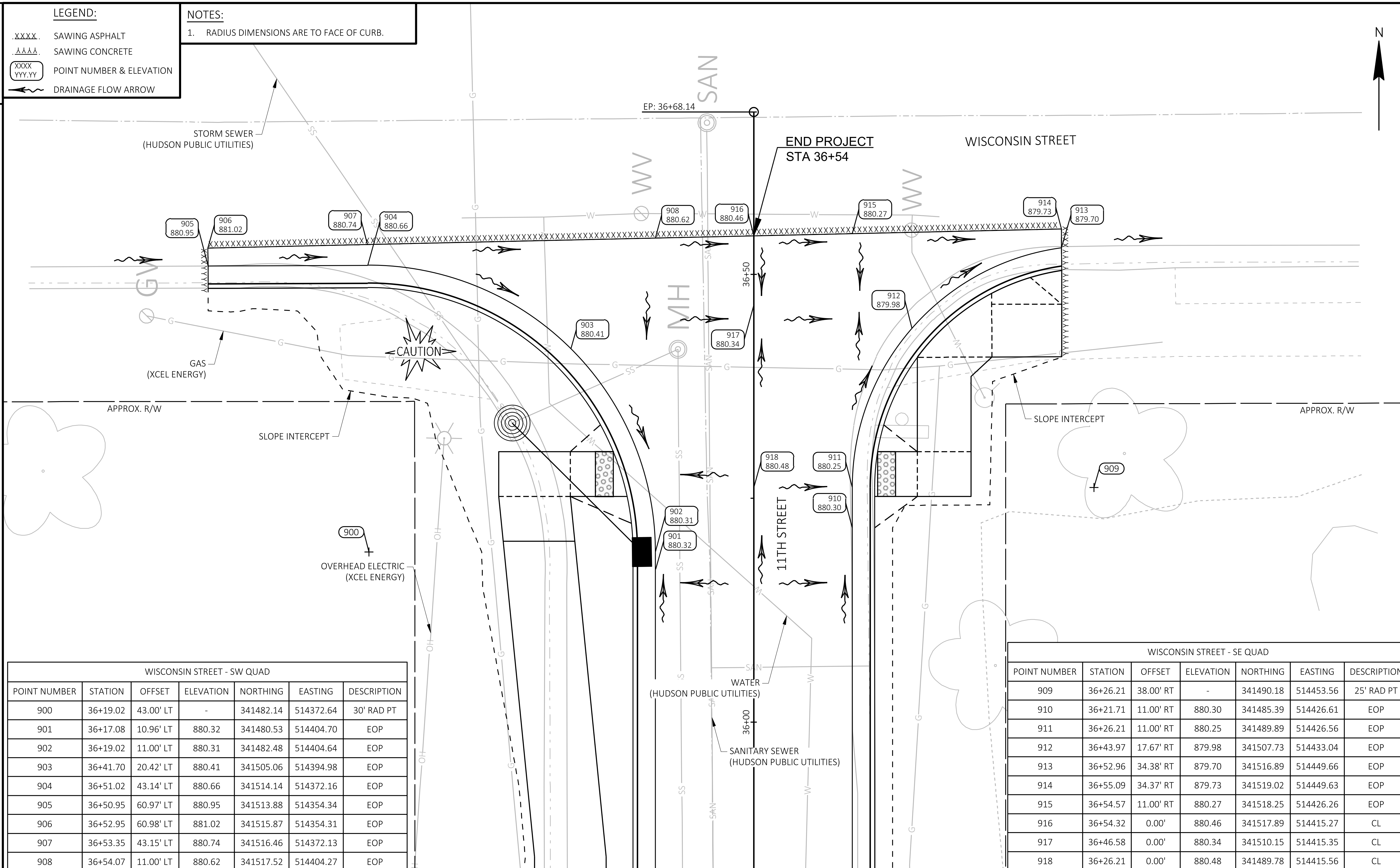
LEGEND:

- XXXX SAWING ASPHALT
- ^^^^ SAWING CONCRETE
- XXXX / YYY.YY POINT NUMBER & ELEVATION
- DRAINAGE FLOW ARROW

NOTES:

1. RADIUS DIMENSIONS ARE TO FACE OF CURB.

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	INTERSECTION DETAILS	SHEET 20	E

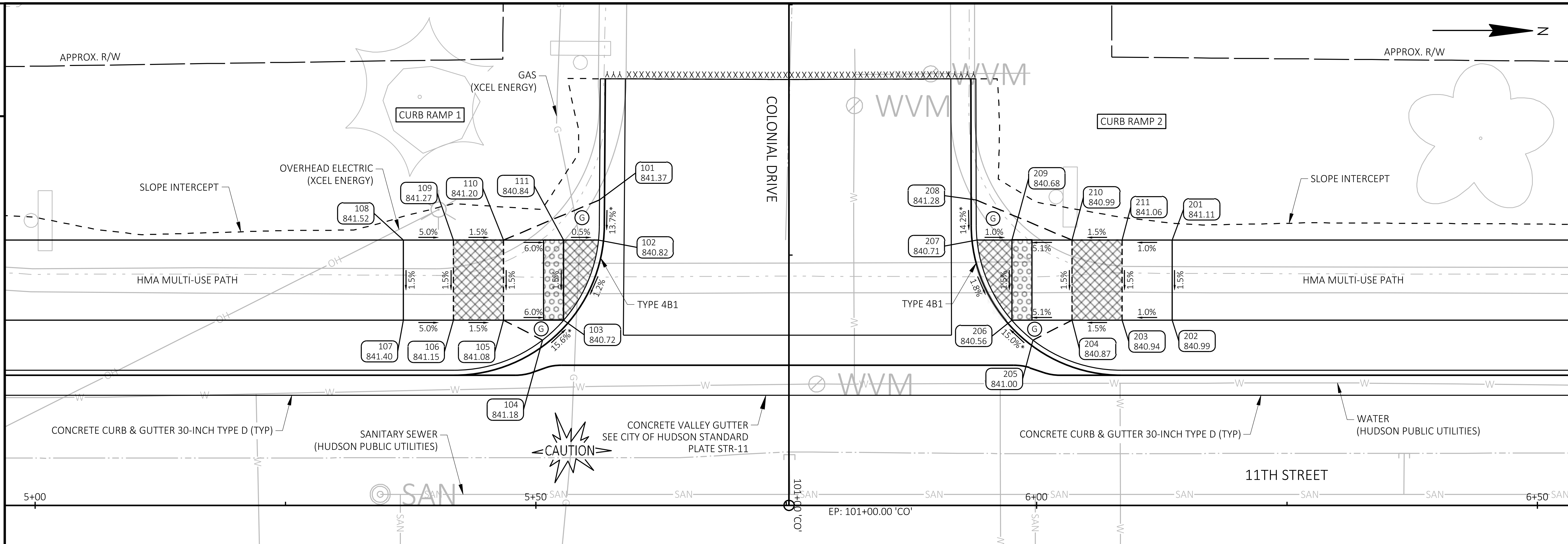


WISCONSIN STREET - SW QUAD

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
900	36+19.02	43.00' LT	-	341482.14	514372.64	30' RAD PT
901	36+17.08	10.96' LT	880.32	341480.53	514404.70	EOP
902	36+19.02	11.00' LT	880.31	341482.48	514404.64	EOP
903	36+41.70	20.42' LT	880.41	341505.06	514394.98	EOP
904	36+51.02	43.14' LT	880.66	341514.14	514372.16	EOP
905	36+50.95	60.97' LT	880.95	341513.88	514354.34	EOP
906	36+52.95	60.98' LT	881.02	341515.87	514354.31	EOP
907	36+53.35	43.15' LT	880.74	341516.46	514372.13	EOP
908	36+54.07	11.00' LT	880.62	341517.52	514404.27	EOP

WISCONSIN STREET - SE QUAD

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
909	36+26.21	38.00' RT	-	341490.18	514453.56	25' RAD PT
910	36+21.71	11.00' RT	880.30	341485.39	514426.61	EOP
911	36+26.21	11.00' RT	880.25	341489.89	514426.56	EOP
912	36+43.97	17.67' RT	879.98	341507.73	514433.04	EOP
913	36+52.96	34.38' RT	879.70	341516.89	514449.66	EOP
914	36+55.09	34.37' RT	879.73	341519.02	514449.63	EOP
915	36+54.57	11.00' RT	880.27	341518.25	514426.26	EOP
916	36+54.32	0.00'	880.46	341517.89	514415.27	CL
917	36+46.58	0.00'	880.34	341510.15	514415.35	CL
918	36+26.21	0.00'	880.48	341489.78	514415.56	CL



COLONIAL DRIVE - SW - CURB RAMP 1						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
101	5+56.35	30.50' LT	841.37	338420.41	514420.29	BOC
102	5+56.26	26.50' LT	840.82	338420.33	514424.29	BOC
103	5+52.79	18.50' LT	840.72	338416.90	514432.30	BOC
104	5+50.67	16.50' LT	841.18	338414.78	514434.31	BOC
105	5+46.79	18.50' LT	841.08	338410.90	514432.33	EOW
106	5+41.79	18.50' LT	841.15	338405.90	514432.35	EOW
107	5+36.79	18.50' LT	841.40	338400.90	514432.37	EOW
108	5+36.79	26.50' LT	841.52	338400.86	514424.37	EOW
109	5+41.79	26.50' LT	841.27	338405.86	514424.35	EOW
110	5+46.79	26.50' LT	841.20	338410.86	514424.33	EOW
111	5+52.79	26.50' LT	840.84	338416.86	514424.30	EOW

COLONIAL DRIVE - NW - CURB RAMP 2						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
201	6+13.53	26.50' LT	841.11	338477.60	514424.05	EOW
202	6+13.53	18.50' LT	840.99	338477.64	514432.05	EOW
203	6+08.53	18.50' LT	840.94	338472.64	514432.07	EOW
204	6+03.53	18.50' LT	840.87	338467.64	514432.09	EOW
205	5+99.65	16.50' LT	841.00	338463.77	514434.11	BOC
206	5+97.53	18.50' LT	840.56	338461.64	514432.11	BOC
207	5+94.06	26.50' LT	840.71	338458.14	514424.13	BOC
208	5+93.98	30.50' LT	841.28	338458.03	514420.13	BOC
209	5+97.53	26.50' LT	840.68	338461.60	514424.11	EOW
210	6+03.53	26.50' LT	840.99	338467.60	514424.09	EOW
211	6+08.53	26.50' LT	841.06	338472.60	514424.07	EOW

LEGEND:

XXXX	SAWING ASPHALT
⅄⅄⅄⅄	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

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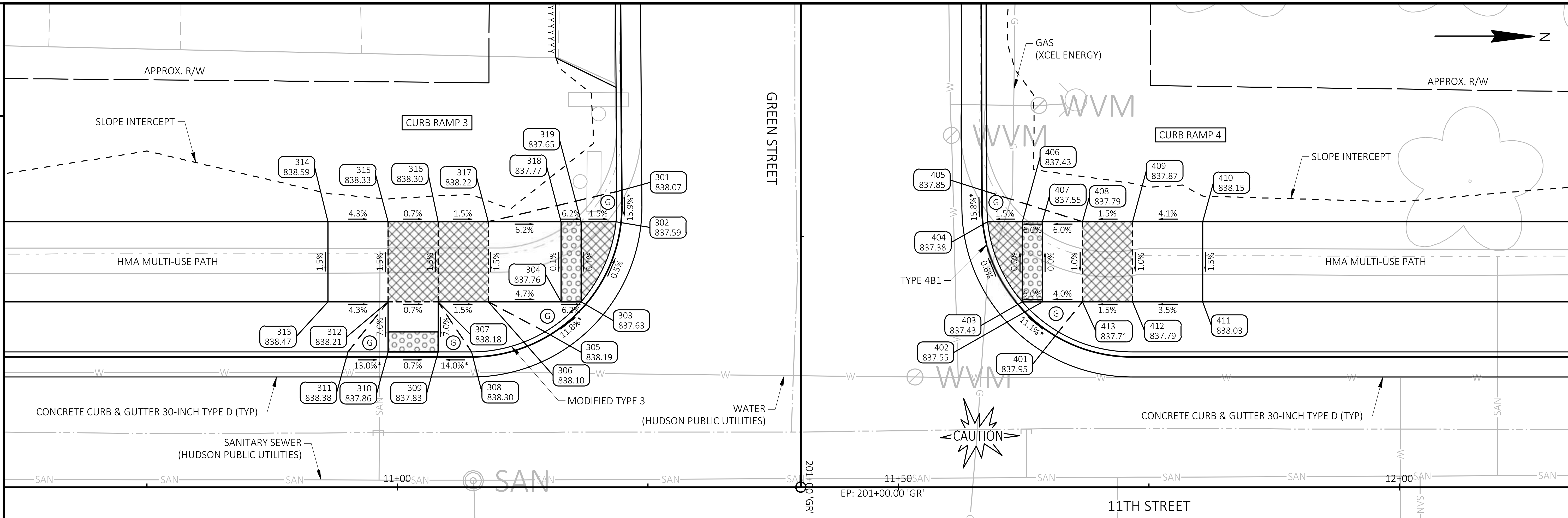

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GREEN STREET - SW - CURB RAMP 3						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
301	11+21.89	29.50' LT	838.07	338985.95	514418.91	BOC
302	11+21.82	26.50' LT	837.59	338985.89	514421.91	BOC
303	11+18.35	18.50' LT	837.63	338982.46	514429.93	BOC
304	11+16.35	18.50' LT	837.76	338980.46	514429.94	EOW
305	11+14.75	15.50' LT	838.19	338978.86	514432.94	BOC
306	11+09.06	18.50' LT	838.10	338973.17	514429.97	EOW
307	11+04.06	18.50' LT	838.18	338968.17	514429.99	EOW
308	11+07.40	13.50' LT	838.30	338971.52	514434.97	BOC
309	11+04.06	13.50' LT	837.83	338968.19	514434.99	BOC
310	10+99.06	13.50' LT	837.86	338963.19	514435.01	BOC
311	10+95.07	13.50' LT	838.38	338959.19	514435.02	BOC
312	10+99.06	18.50' LT	838.21	338963.17	514430.01	EOW
313	10+93.06	18.50' LT	838.47	338957.17	514430.03	EOW
314	10+93.06	26.50' LT	838.59	338957.13	514422.03	EOW
315	10+99.06	26.50' LT	838.33	338963.13	514422.01	EOW
316	11+04.06	26.50' LT	838.30	338968.13	514421.99	EOW
317	11+09.06	26.50' LT	838.22	338973.13	514421.97	EOW
318	11+16.35	26.50' LT	837.77	338980.42	514421.94	EOW
319	11+18.35	26.50' LT	837.65	338982.42	514421.93	EOW

GREEN STREET - NW - CURB RAMP 4						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
401	11+65.98	15.50' LT	837.95	339030.10	514432.73	BOC
402	11+64.38	18.50' LT	837.55	339028.48	514429.73	EOW
403	11+62.38	18.50' LT	837.43	339026.48	514429.74	BOC
404	11+58.91	26.50' LT	837.38	339022.98	514421.76	BOC
405	11+58.83	29.50' LT	837.85	339022.88	514418.76	BOC
406	11+62.38	26.50' LT	837.43	339026.45	514421.74	EOW
407	11+64.38	26.50' LT	837.55	339028.45	514421.73	EOW
408	11+68.38	26.50' LT	837.79	339032.45	514421.72	EOW
409	11+73.38	26.50' LT	837.87	339037.45	514421.70	EOW
410	11+80.38	26.50' LT	838.15	339044.45	514421.67	EOW
411	11+80.38	18.50' LT	838.03	339044.48	514429.67	EOW
412	11+73.38	18.50' LT	837.79	339037.48	514429.70	EOW
413	11+68.38	18.50' LT	837.71	339032.48	514429.72	EOW

LEGEND:

- XXXX — SAWING ASPHALT
- SAWING CONCRETE
- DETECTABLE WARNING FIELD
- LANDING AREA
- X.XX% — BOC/CONCRETE SLOPE
- X.XX%* — FLARE SLOPE
- G — 6:1 GRADED FLARE
- C — 10:1 CONCRETE FLARE
- PED — CONCRETE CURB PEDESTRIAN
- XXXX YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

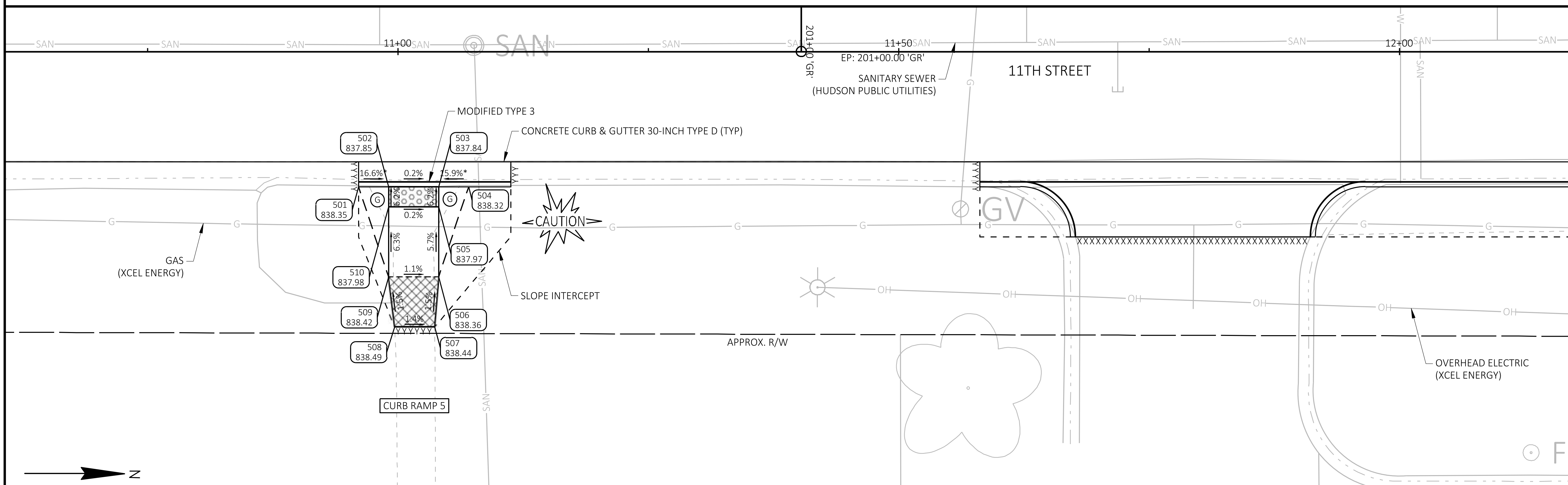
GREEN STREET - SE - CURB RAMP 5						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
501	10+96.06	13.50' RT	838.35	338960.30	514462.02	BOC
502	10+99.06	13.50' RT	837.85	338963.30	514462.01	BOC
503	11+04.06	13.50' RT	837.84	338968.30	514461.99	BOC
504	11+07.06	13.50' RT	838.32	338971.30	514461.97	BOC
505	11+04.06	15.50' RT	837.97	338968.31	514463.99	EOW
506	11+04.06	22.50' RT	838.36	338968.34	514470.99	EOW
507	11+03.67	27.50' RT	838.44	338967.97	514475.99	EOW
508	10+99.67	27.50' RT	838.49	338963.97	514476.00	EOW
509	10+99.06	22.50' RT	838.42	338963.34	514471.01	EOW
510	10+99.06	15.50' RT	837.98	338963.31	514464.01	EOW

LEGEND:

XXXX	SAWING ASPHALT
	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



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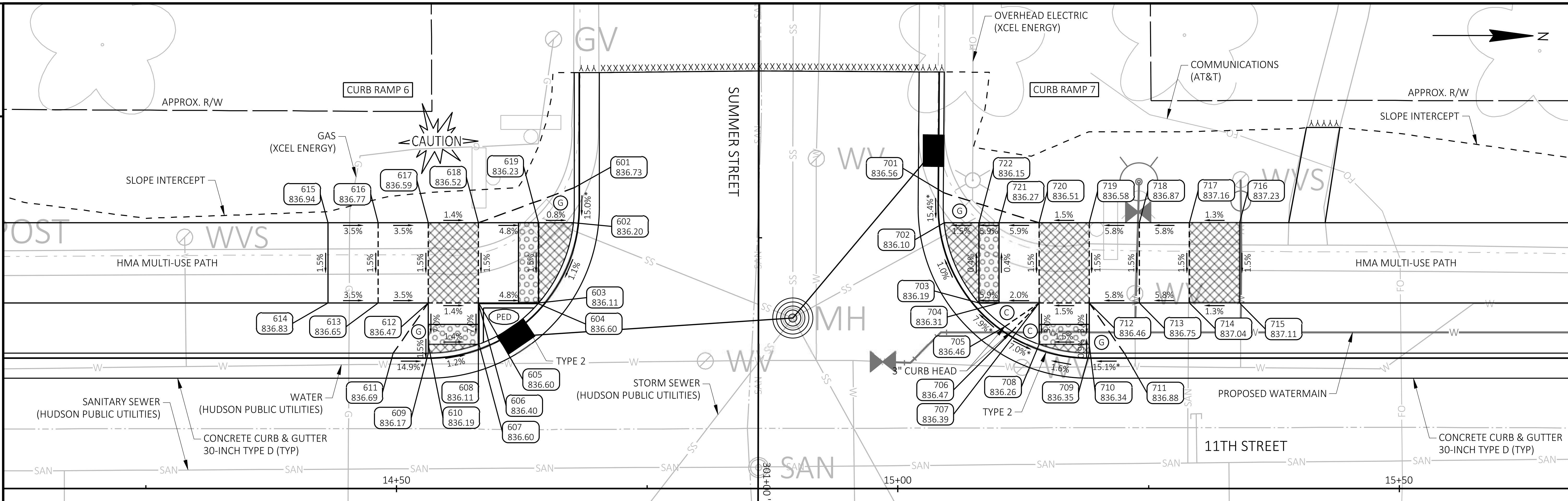

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SUMMER STREET - SW - CURB RAMP 6						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
601	14+67.71	30.00' LT	836.73	339331.90	514417.42	BOC
602	14+67.63	26.50' LT	836.20	339331.82	514420.92	BOC
603	14+64.16	18.50' LT	836.11	339328.35	514428.92	BOC
604	14+64.12	18.45' LT	836.60	339328.30	514428.97	BOC
605	14+58.21	18.45' LT	836.60	339322.40	514428.97	BOC
606	14+58.16	18.50' LT	836.40	339322.35	514428.92	EOW
607	14+58.21	14.39' LT	836.60	339322.40	514433.03	BOC
608	14+58.16	14.37' LT	836.11	339322.35	514433.05	BOC
609	14+53.16	13.50' LT	836.17	339317.35	514433.92	BOC
610	14+53.16	14.37' LT	836.19	339317.35	514433.05	EOW
611	14+49.66	13.50' LT	836.69	339313.85	514433.92	BOC
612	14+53.16	18.50' LT	836.47	339317.35	514428.92	EOW
613	14+48.17	18.50' LT	836.65	339312.35	514428.92	EOW
614	14+43.16	18.50' LT	836.83	339307.35	514428.92	EOW
615	14+43.16	26.50' LT	836.94	339307.35	514420.92	EOW
616	14+48.17	26.50' LT	836.77	339312.35	514420.92	EOW
617	14+53.16	26.50' LT	836.59	339317.35	514420.92	EOW
618	14+58.16	26.50' LT	836.52	339322.35	514420.92	EOW
619	14+64.16	26.50' LT	836.23	339328.35	514420.92	EOW

SUMMER STREET - NW - CURB RAMP 7						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
701	15+04.54	29.50' LT	836.56	339368.72	514417.93	BOC
702	15+04.61	26.50' LT	836.10	339368.79	514420.93	BOC
703	15+08.07	18.50' LT	836.19	339372.26	514428.93	BOC
704	15+10.07	18.50' LT	836.31	339374.26	514428.93	EOW
705	15+10.66	16.16' LT	836.46	339374.84	514431.28	BOC
706	15+11.38	15.68' LT	836.47	339375.56	514431.75	BOC
707	15+14.07	18.50' LT	836.39	339378.26	514428.94	EOW
708	15+14.07	14.37' LT	836.26	339378.25	514433.06	BOC
709	15+19.07	13.50' LT	836.35	339383.25	514433.94	BOC
710	15+19.07	14.37' LT	836.34	339383.25	514433.06	EOW
711	15+22.57	13.50' LT	836.88	339386.75	514433.94	BOC
712	15+19.07	18.50' LT	836.46	339383.26	514428.94	EOW
713	15+24.07	18.50' LT	836.75	339388.26	514428.94	EOW
714	15+29.07	18.50' LT	837.04	339393.26	514428.94	EOW
715	15+34.07	18.50' LT	837.11	339398.26	514428.94	EOW
716	15+34.07	26.50' LT	837.23	339398.26	514420.94	EOW
717	15+29.07	26.50' LT	837.16	339393.26	514420.94	EOW
718	15+24.07	26.50' LT	836.87	339388.26	514420.94	EOW
719	15+19.07	26.50' LT	836.58	339383.26	514420.94	EOW

SUMMER STREET - NW - CURB RAMP 7						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
720	15+14.07	26.50' LT	836.51	339378.26	514420.94	EOW
721	15+10.07	26.50' LT	836.27	339374.26	514420.93	EOW
722	15+08.07	26.50' LT	836.15	339372.26	514420.93	EOW

LEGEND:

XXXX	SAWING ASPHALT
ΛΛΛΛ	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

2

SUMMER STREET - SE - CURB RAMP 8						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
801	14+49.16	13.50' RT	836.74	339313.34	514460.92	BOC
802	14+53.16	13.50' RT	836.23	339317.34	514460.92	BOC
803	14+58.16	13.93' RT	836.14	339322.34	514461.35	BOC
804	14+58.21	13.94' RT	836.63	339322.39	514461.37	BOC
805	14+58.16	15.93' RT	836.28	339322.34	514463.35	EOW
806	14+58.16	19.50' RT	836.53	339322.34	514466.92	EOW
807	14+58.21	19.45' RT	836.53	339322.39	514466.87	BOC
808	14+65.56	19.45' RT	836.56	339329.73	514466.87	BOC
809	14+65.59	19.50' RT	836.07	339329.76	514466.92	BOC
810	14+67.32	24.50' RT	836.15	339331.50	514471.92	BOC
811	14+67.40	28.50' RT	836.69	339331.57	514475.92	BOC
812	14+65.59	24.50' RT	836.14	339329.76	514471.92	EOW
813	14+63.59	24.50' RT	836.27	339327.76	514471.92	EOW
814	14+58.16	24.50' RT	836.61	339322.34	514471.92	EOW
815	14+53.16	24.50' RT	836.68	339317.34	514471.92	EOW
816	14+53.16	19.50' RT	836.61	339317.34	514466.92	EOW
817	14+53.16	15.93' RT	836.38	339317.34	514463.35	EOW
818	14+53.16	13.93' RT	836.24	339317.34	514461.35	EOW

LEGEND:

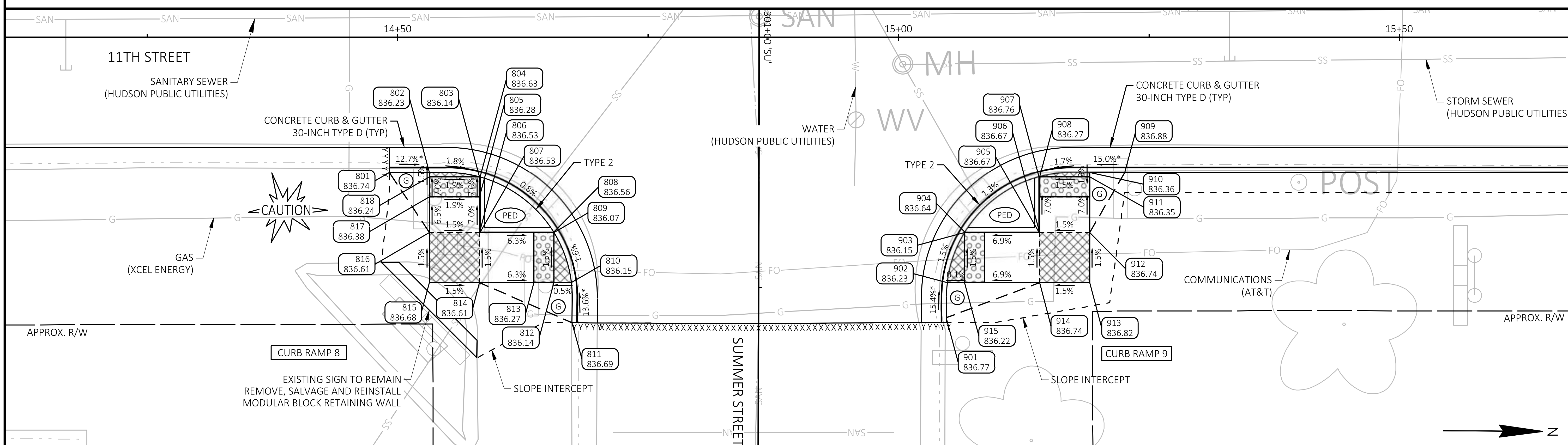
XXXX	SAWING ASPHALT
YYYY	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

2

SUMMER STREET - NE - CURB RAMP 9						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
901	15+04.76	28.00' RT	836.77	339368.93	514475.43	BOC
902	15+04.87	24.50' RT	836.23	339369.04	514471.93	BOC
903	15+06.60	19.50' RT	836.15	339370.77	514466.93	BOC
904	15+06.63	19.45' RT	836.64	339370.80	514466.88	BOC
905	15+14.02	19.45' RT	836.67	339378.20	514466.89	BOC
906	15+14.07	19.50' RT	836.67	339378.25	514466.94	EOW
907	15+14.02	13.93' RT	836.76	339378.20	514461.37	BOC
908	15+14.07	13.92' RT	836.27	339378.25	514461.35	BOC
909	15+22.57	13.50' RT	836.88	339386.75	514460.94	BOC
910	15+19.07	13.50' RT	836.36	339383.25	514460.94	BOC
911	15+19.07	13.92' RT	836.35	339383.25	514461.35	EOW
912	15+19.07	19.50' RT	836.74	339383.25	514466.94	EOW
913	15+19.07	24.50' RT	836.82	339383.25	514471.94	EOW
914	15+14.07	24.50' RT	836.74	339378.25	514471.94	EOW
915	15+06.60	24.50' RT	836.22	339370.77	514471.93	EOW



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CURB RAMP DETAILS	SHEET 26	E

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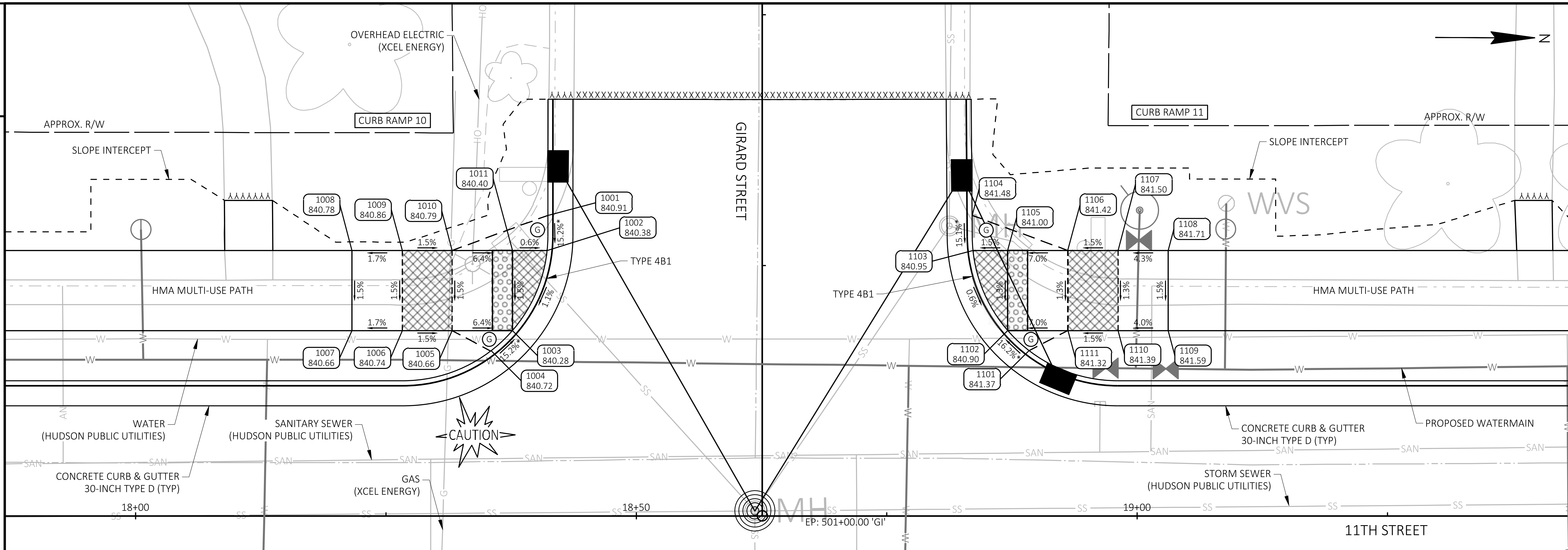
LAYOUT NAME - 021306-cr
PLOT DATE : 7/29/2024 10:20 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2



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GIRARD STREET - SW - CURB RAMP 10						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1001	18+41.16	30.00' LT	840.91	339705.35	514417.51	BOC
1002	18+41.08	26.50' LT	840.38	339705.27	514421.01	BOC
1003	18+37.61	18.50' LT	840.28	339701.80	514429.01	BOC
1004	18+35.49	16.50' LT	840.72	339699.67	514431.01	BOC
1005	18+31.61	18.50' LT	840.66	339695.80	514429.01	EOW
1006	18+26.62	18.50' LT	840.74	339690.80	514429.01	EOW
1007	18+21.61	18.50' LT	840.66	339685.80	514429.01	EOW
1008	18+21.61	26.50' LT	840.78	339685.80	514421.01	EOW
1009	18+26.62	26.50' LT	840.86	339690.80	514421.01	EOW
1010	18+31.61	26.50' LT	840.79	339695.80	514421.01	EOW
1011	18+37.61	26.50' LT	840.40	339701.80	514421.01	EOW

LEGEND:

XXXX	SAWING ASPHALT
	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

GIRARD STREET - NW - CURB RAMP 11						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1101	18+89.20	16.50' LT	841.37	339753.38	514431.02	BOC
1102	18+87.08	18.50' LT	840.90	339751.26	514429.02	BOC
1103	18+83.61	26.50' LT	840.95	339747.79	514421.02	BOC
1104	18+83.52	30.00' LT	841.48	339747.70	514417.53	BOC
1105	18+87.08	26.50' LT	841.00	339751.26	514421.02	EOW
1106	18+93.08	26.50' LT	841.42	339757.26	514421.02	EOW
1107	18+98.08	26.50' LT	841.50	339762.26	514421.03	EOW
1108	19+03.08	26.50' LT	841.71	339767.26	514421.03	EOW
1109	19+03.08	18.50' LT	841.59	339767.26	514429.03	EOW
1110	18+98.08	18.50' LT	841.39	339762.26	514429.03	EOW
1111	18+93.08	18.50' LT	841.32	339757.26	514429.02	EOW

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

MORRISON STREET - NW - CURB RAMP 12						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1201	21+29.00	13.50' LT	844.12	339993.18	514434.08	BOC
1202	21+32.00	13.50' LT	844.04	339996.18	514434.08	BOC
1203	21+37.00	13.50' LT	844.10	340001.18	514434.08	BOC
1204	21+40.50	13.50' LT	844.63	340004.68	514434.08	BOC
1205	21+37.00	18.50' LT	844.45	340001.18	514429.08	EOW
1206	21+43.00	18.50' LT	844.73	340007.18	514429.08	EOW
1207	21+43.00	26.50' LT	844.85	340007.18	514421.08	EOW
1208	21+37.00	26.50' LT	844.57	340001.18	514421.08	EOW
1209	21+32.00	26.50' LT	844.51	339996.18	514421.08	EOW
1210	21+27.00	26.50' LT	844.39	339991.18	514421.08	EOW
1211	21+27.00	18.50' LT	844.27	339991.18	514429.08	EOW
1212	21+32.00	18.50' LT	844.39	339996.18	514429.08	EOW

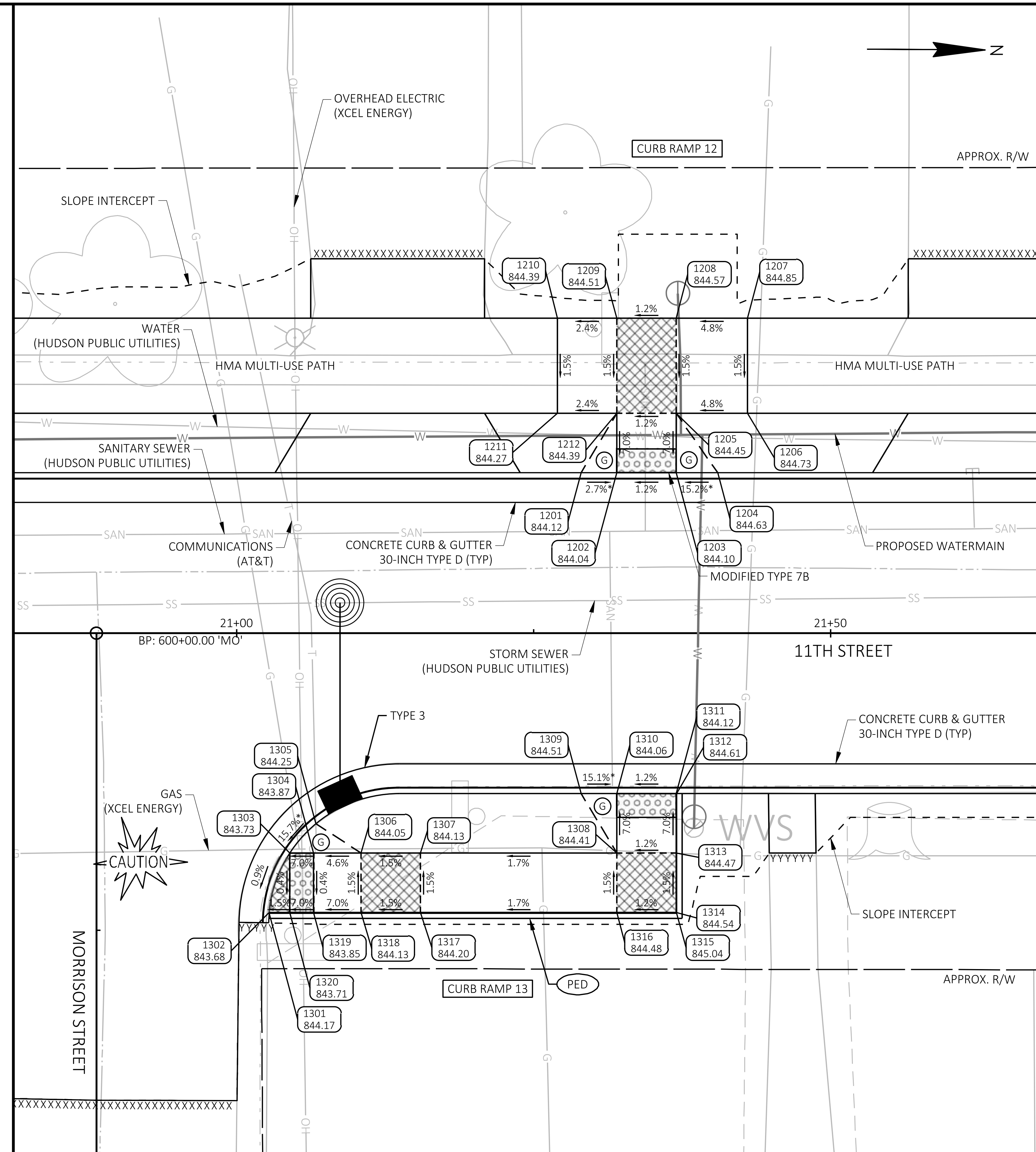
MORRISON STREET - NE - CURB RAMP 13						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1301	21+02.75	23.55' RT	844.17	339966.92	514471.12	BOC
1302	21+02.76	23.50' RT	843.68	339966.93	514471.07	BOC
1303	21+04.49	18.50' RT	843.73	339968.66	514466.07	BOC
1304	21+06.49	18.50' RT	843.87	339970.66	514466.08	EOW
1305	21+06.68	16.04' RT	844.25	339970.86	514463.61	BOC
1306	21+10.49	18.50' RT	844.05	339974.66	514466.08	EOW
1307	21+15.49	18.50' RT	844.13	339979.66	514466.08	EOW
1308	21+32.00	18.50' RT	844.41	339996.17	514466.08	EOW
1309	21+29.00	13.50' RT	844.51	339993.18	514461.08	BOC
1310	21+32.00	13.50' RT	844.06	339996.18	514461.08	BOC
1311	21+37.00	13.50' RT	844.12	340001.18	514461.08	BOC
1312	21+37.05	13.50' RT	844.61	340001.23	514461.08	BOC
1313	21+37.00	18.50' RT	844.47	340001.17	514466.08	EOW
1314	21+37.00	23.50' RT	844.54	340001.17	514471.08	EOW
1315	21+37.05	23.55' RT	845.04	340001.22	514471.13	BOC
1316	21+32.00	23.50' RT	844.48	339996.17	514471.08	EOW
1317	21+15.49	23.50' RT	844.20	339979.66	514471.08	EOW
1318	21+10.49	23.50' RT	844.13	339974.66	514471.08	EOW
1319	21+06.49	23.50' RT	843.85	339970.66	514471.08	EOW
1320	21+04.49	23.50' RT	843.71	339968.66	514471.07	EOW

LEGEND:

XXXX	SAWING ASPHALT
⅄⅄⅄⅄	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



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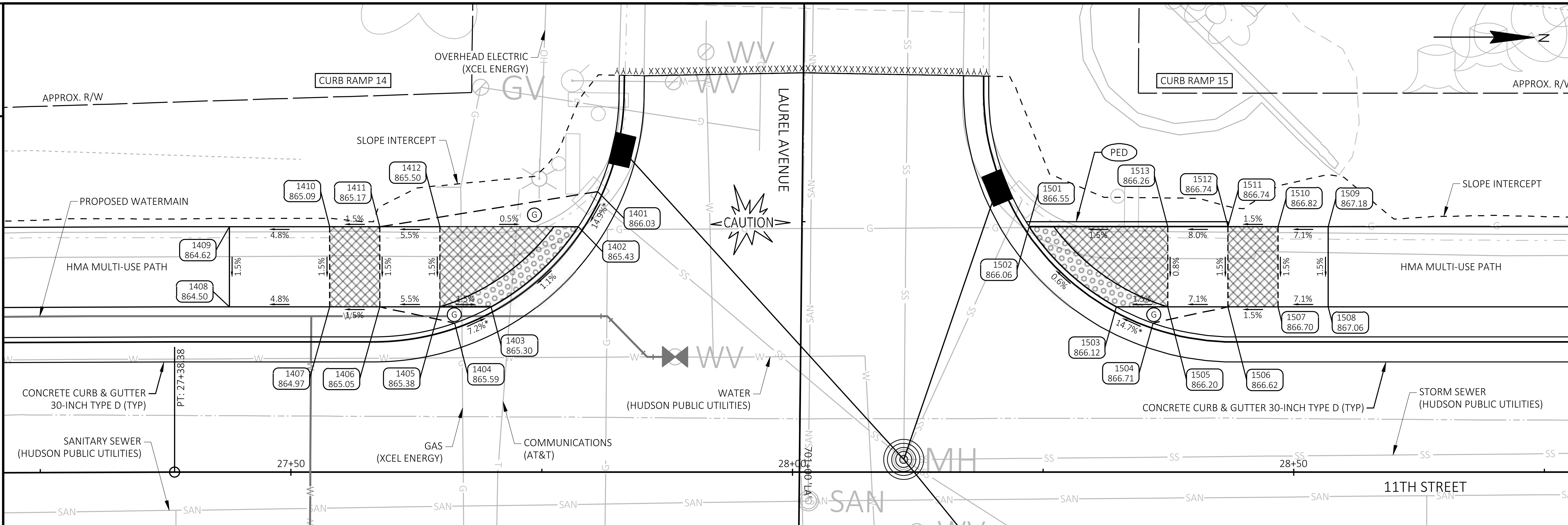


2

RADIAL DETECTABLE WARNING FIELD			
BOC RADIUS	LANDING LENGTH	AREA	LONG CHORD
24.5'	13.81'	25.70 SF	11.82'

RADIAL DETECTABLE WARNING FIELD			
BOC RADIUS	LANDING LENGTH	AREA	LONG CHORD
24.5'	13.81'	25.70 SF	11.82'

LAUREL AVENUE - SW - CURB RAMP 14

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1401	27+80.58	28.01' LT	866.03	340643.91	514396.43	BOC
1402	27+78.66	24.50' LT	865.43	340642.02	514399.95	BOC
1403	27+69.96	16.50' LT	865.30	340633.41	514408.05	BOC
1404	27+66.31	14.88' LT	865.59	340629.77	514409.71	BOC
1405	27+64.85	16.50' LT	865.38	340628.29	514408.10	EOW
1406	27+58.85	16.50' LT	865.05	340622.29	514408.16	EOW
1407	27+53.85	16.50' LT	864.97	340617.29	514408.21	EOW
1408	27+43.87	16.50' LT	864.50	340607.31	514408.32	EOW
1409	27+43.87	24.50' LT	864.62	340607.23	514400.32	EOW
1410	27+53.85	24.50' LT	865.09	340617.21	514400.21	EOW
1411	27+58.85	24.50' LT	865.17	340622.21	514400.16	EOW
1412	27+64.85	24.50' LT	865.50	340628.21	514400.10	EOW

LEGEND:

XXXX	SAWING ASPHALT
ʌʌʌʌ	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

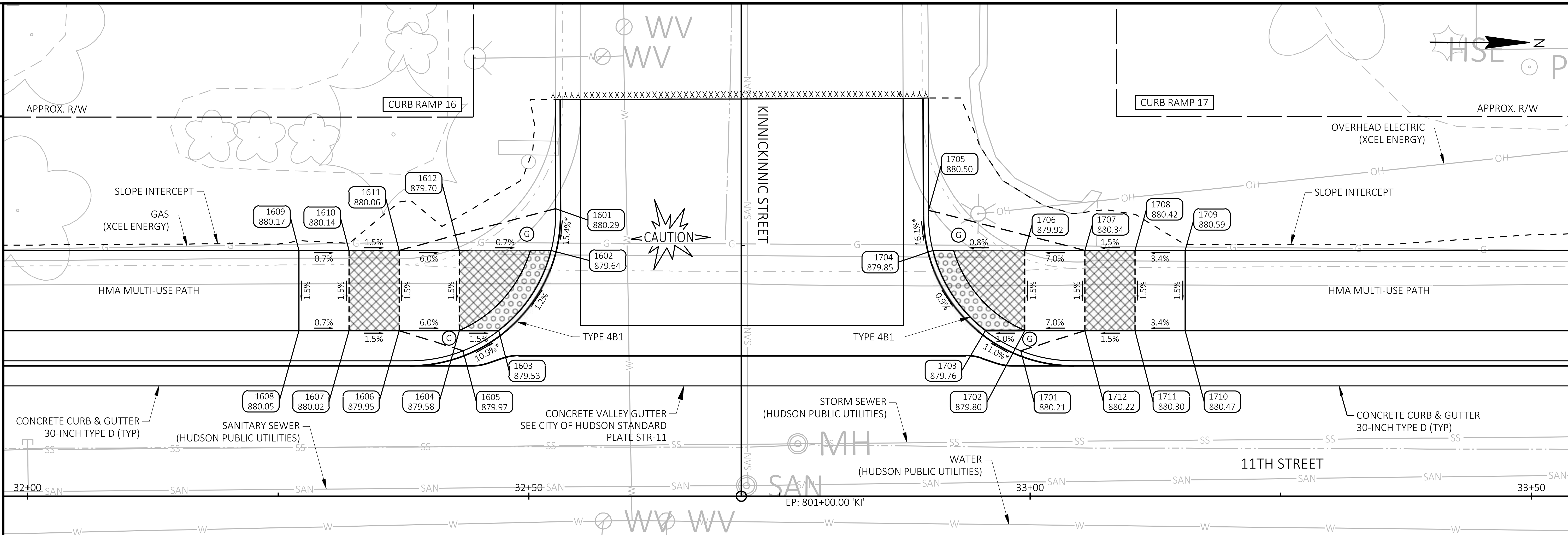
NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

LAUREL AVENUE - NW - CURB RAMP 15

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1501	28+23.59	24.55' LT	866.55	340686.95	514399.43	BOC
1502	28+23.62	24.50' LT	866.06	340686.98	514399.48	BOC
1503	28+32.32	16.50' LT	866.12	340695.76	514407.39	BOC
1504	28+35.98	14.88' LT	866.71	340699.43	514408.98	BOC
1505	28+37.43	16.50' LT	866.20	340700.87	514407.34	EOW
1506	28+43.43	16.50' LT	866.62	340706.87	514407.27	EOW
1507	28+48.43	16.50' LT	866.70	340711.87	514407.22	EOW
1508	28+53.43	16.50' LT	867.06	340716.87	514407.17	EOW
1509	28+53.43	24.50' LT	867.18	340716.79	514399.17	EOW
1510	28+48.43	24.50' LT	866.82	340711.79	514399.22	EOW
1511	28+43.43	24.50' LT	866.74	340706.79	514399.28	EOW
1512	28+43.43	24.55' LT	866.74	340706.79	514399.23	BOC
1513	28+37.43	24.50' LT	866.26	340700.79	514399.34	EOW

2



2

RADIAL DETECTABLE WARNING FIELD			
BOC RADIUS	LANDING LENGTH	AREA	LONG CHORD
14.5'	9.17'	20.56 SF	9.56'

RADIAL DETECTABLE WARNING FIELD			
BOC RADIUS	LANDING LENGTH	AREA	LONG CHORD
14.5'	9.17'	20.56 SF	9.56'

KINNICKINNIC STREET - SW - CURB RAMP 16

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1601	32+52.65	28.67' LT	880.29	341115.94	514390.81	BOC
1602	32+52.22	24.50' LT	879.64	341115.56	514394.99	BOC
1603	32+46.98	16.50' LT	879.53	341110.40	514403.04	BOC
1604	32+43.05	16.50' LT	879.58	341106.47	514403.08	EOW
1605	32+43.44	14.50' LT	879.97	341106.88	514405.08	BOC
1606	32+37.05	16.50' LT	879.95	341100.47	514403.15	EOW
1607	32+32.05	16.50' LT	880.02	341095.47	514403.20	EOW
1608	32+27.05	16.50' LT	880.05	341090.47	514403.25	EOW
1609	32+27.05	24.50' LT	880.17	341090.39	514395.25	EOW
1610	32+32.05	24.50' LT	880.14	341095.39	514395.20	EOW
1611	32+37.05	24.50' LT	880.06	341100.39	514395.15	EOW
1612	32+43.05	24.50' LT	879.70	341106.39	514395.08	EOW

LEGEND:

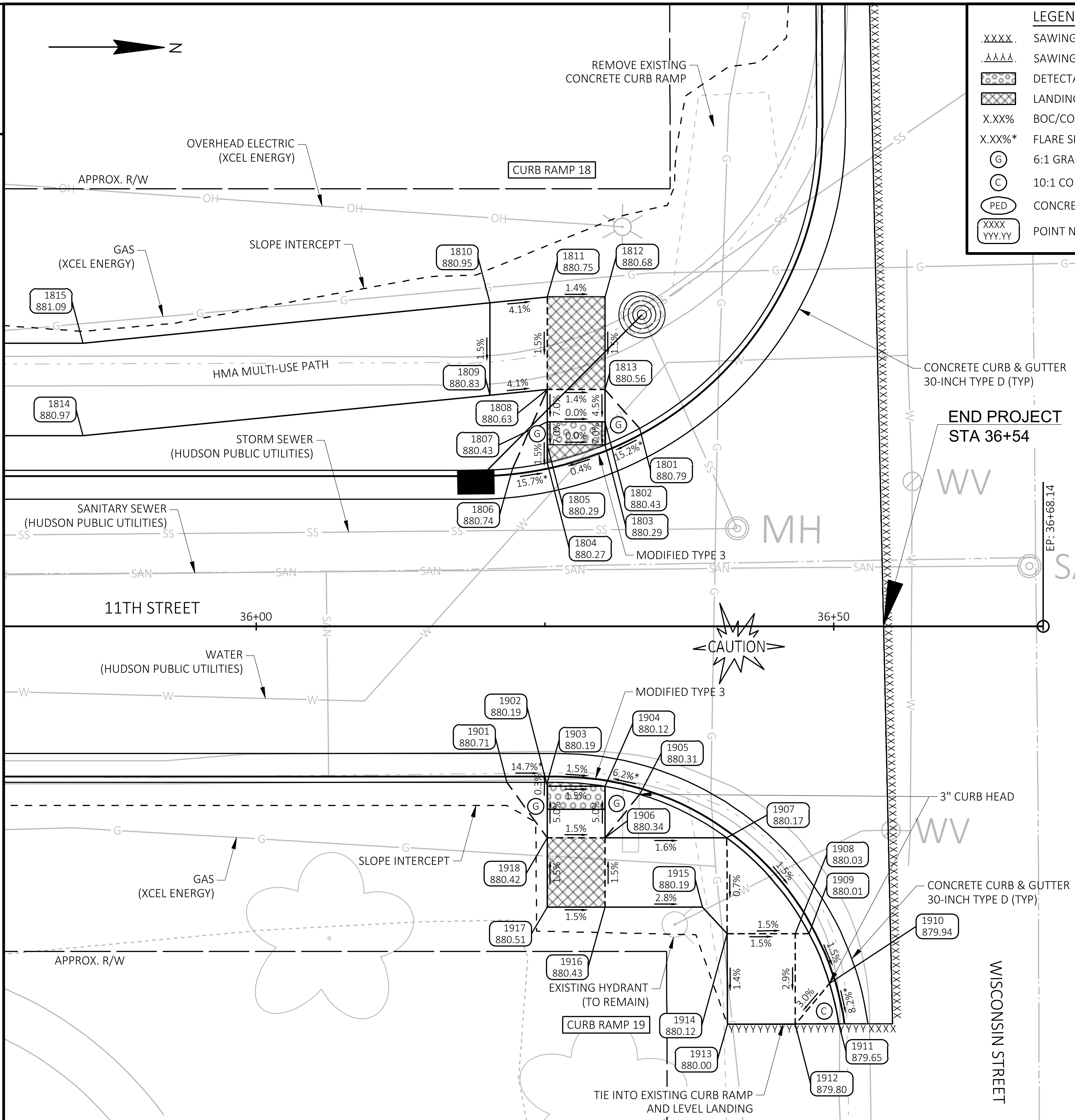
XXXX	SAWING ASPHALT
ʌʌʌʌ	SAWING CONCRETE
	DETECTABLE WARNING FIELD
	LANDING AREA
X.XX%	BOC/CONCRETE SLOPE
X.XX%*	FLARE SLOPE
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

KINNICKINNIC STREET - NW - CURB RAMP 17

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1701	32+99.07	14.50' LT	880.21	341162.51	514404.49	BOC
1702	32+99.47	16.50' LT	879.80	341162.88	514402.49	EOW
1703	32+95.53	16.50' LT	879.76	341158.95	514402.53	BOC
1704	32+90.29	24.50' LT	879.85	341153.62	514394.59	BOC
1705	32+89.86	28.50' LT	880.50	341153.15	514390.59	BOC
1706	32+99.47	24.50' LT	879.92	341162.80	514394.49	EOW
1707	33+05.47	24.50' LT	880.34	341168.80	514394.43	EOW
1708	33+10.47	24.50' LT	880.42	341173.80	514394.38	EOW
1709	33+15.47	24.50' LT	880.59	341178.80	514394.32	EOW
1710	33+15.47	16.50' LT	880.47	341178.88	514402.32	EOW
1711	33+10.47	16.50' LT	880.30	341173.88	514402.37	EOW
1712	33+05.47	16.50' LT	880.22	341168.88	514402.43	EOW



LEGEND:

- XXXX — SAWING ASPHALT
- SAWING CONCRETE
- DETECTABLE WARNING FIELD
- LANDING AREA
- X.XX% — BOC/CONCRETE SLOPE
- X.XX%* — FLARE SLOPE
- G — 6:1 GRADED FLARE
- C — 10:1 CONCRETE FLARE
- PED — CONCRETE CURB PEDESTRIAN
- XXXX YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST TO FIT FIELD CONDITIONS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

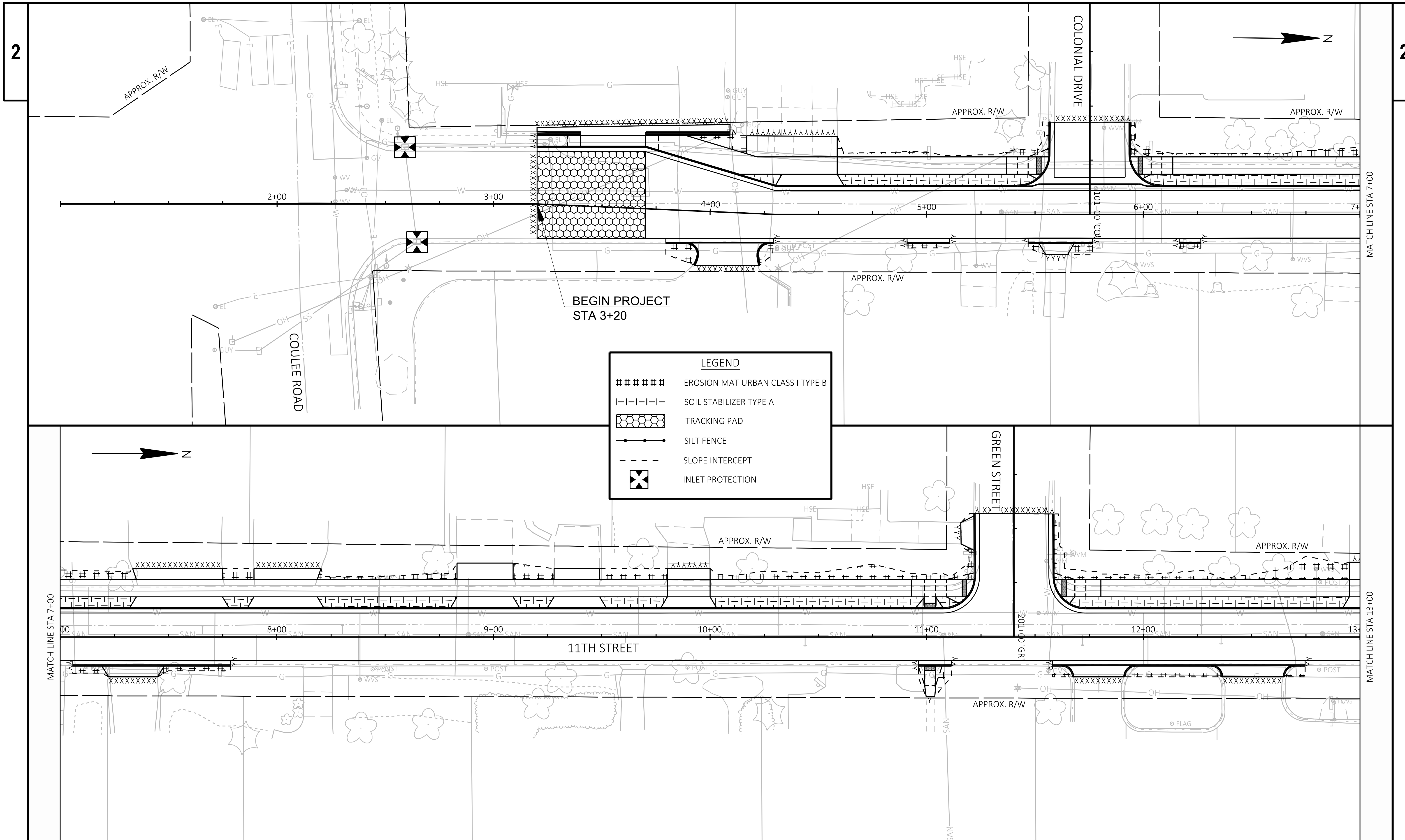
WISCONSIN STREET - SW - CURB RAMP 18

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1801	36+33.21	17.13' LT	880.79	341496.60	514398.36	BOC
1802	36+30.21	17.70' LT	880.43	341493.59	514397.82	EOW
1803	36+30.21	15.70' LT	880.29	341493.61	514399.82	BOC
1804	36+25.21	14.16' LT	880.27	341488.63	514401.42	BOC
1805	36+25.21	15.70' LT	880.29	341488.61	514399.87	EOW
1806	36+22.21	13.67' LT	880.74	341485.63	514401.93	BOC
1807	36+25.21	17.70' LT	880.43	341488.59	514397.87	EOW
1808	36+25.21	20.50' LT	880.63	341488.56	514395.07	EOW
1809	36+20.23	20.01' LT	880.83	341483.59	514395.62	EOW
1810	36+20.23	28.01' LT	880.95	341483.51	514387.62	EOW
1811	36+25.21	28.50' LT	880.75	341488.48	514387.07	EOW
1812	36+30.21	28.50' LT	880.68	341493.48	514387.02	EOW
1813	36+30.21	20.50' LT	880.56	341493.56	514395.02	EOW
1814	35+85.00	16.50' LT	880.97	341448.40	514399.49	EOW
1815	35+85.00	24.50' LT	881.09	341448.31	514391.49	EOW

WISCONSIN STREET- SE - CURB RAMP 19

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1901	36+21.71	13.50' RT	880.71	341485.42	514429.11	BOC
1902	36+25.21	13.83' RT	880.19	341488.92	514429.40	EOW
1903	36+25.21	13.50' RT	880.19	341488.92	514429.07	BOC
1904	36+30.21	13.83' RT	880.12	341493.92	514429.35	BOC
1905	36+33.21	14.52' RT	880.31	341496.93	514430.01	BOC
1906	36+30.21	18.29' RT	880.34	341493.97	514433.80	EOW
1907	36+40.75	18.29' RT	880.17	341504.51	514433.69	BOC
1908	36+46.67	26.58' RT	880.03	341510.51	514441.93	WALK
1909	36+47.88	26.58' RT	880.01	341511.73	514441.91	BOC
1910	36+49.66	30.90' RT	879.94	341513.55	514446.21	BOC
1911	36+50.44	34.39' RT	879.65	341514.37	514449.70	BOC
1912	36+46.69	34.40' RT	879.80	341510.62	514449.75	BOC
1913	36+40.80	34.42' RT	880.00	341504.73	514449.83	BOC
1914	36+40.78	26.60' RT	880.12	341504.63	514442.01	EOW
1915	36+38.62	24.29' RT	880.19	341502.45	514439.72	EOW
1916	36+30.21	24.29' RT	880.43	341494.03	514439.80	EOW
1917	36+25.21	24.29' RT	880.51	341489.03	514439.86	EOW
1918	36+25.21	18.29' RT	880.42	341488.97	514433.86	EOW

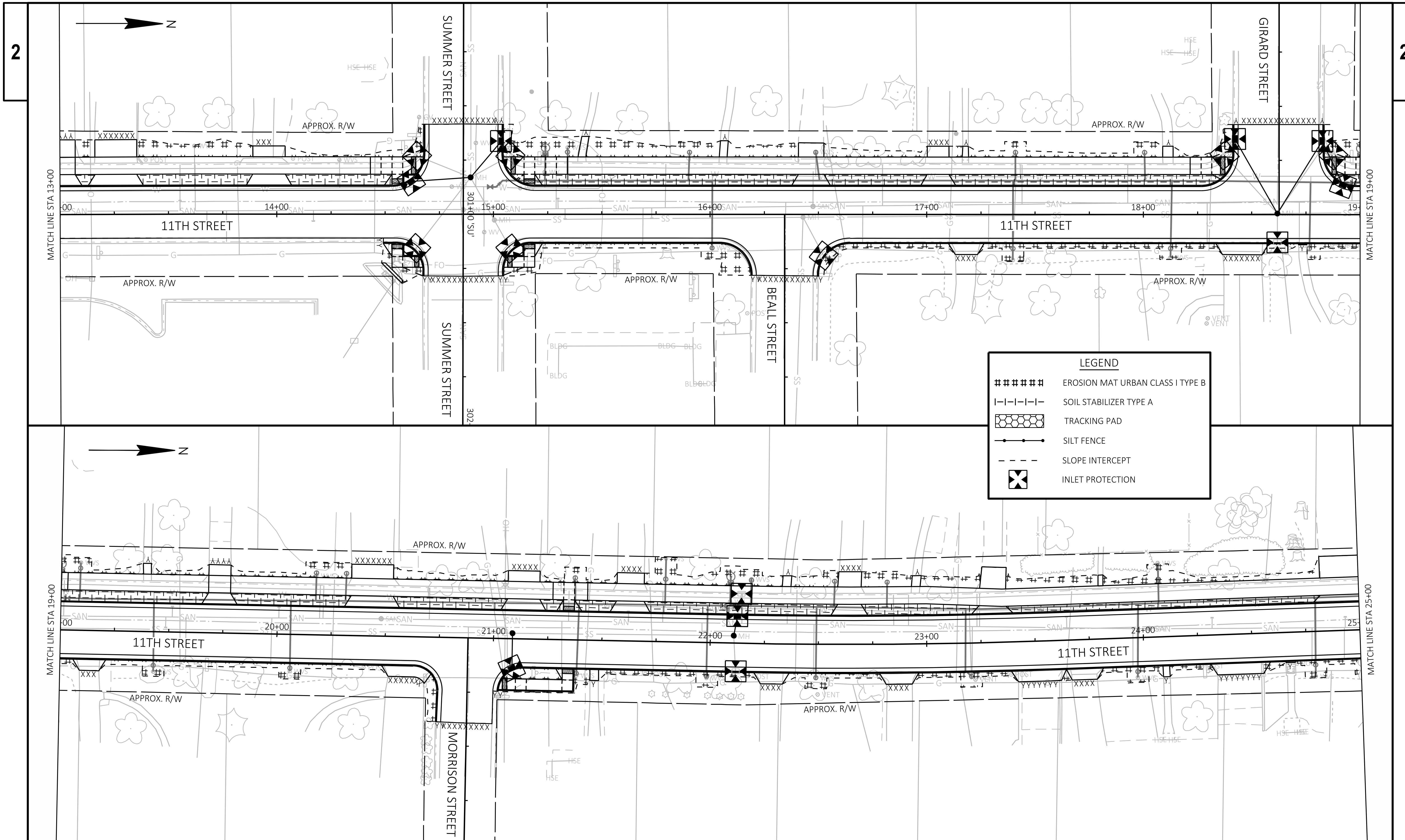
2



LEGEND

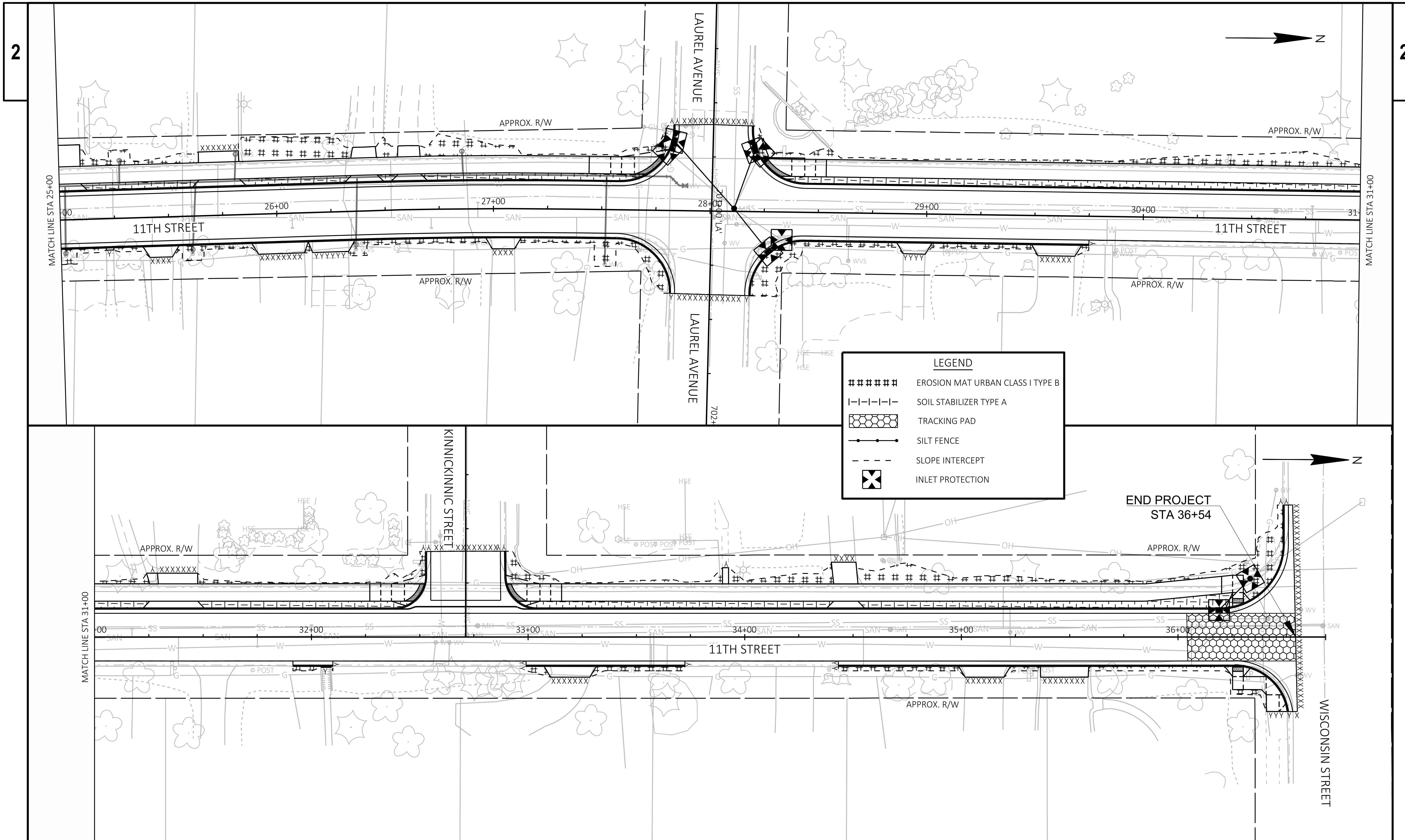
# # # # # #	EROSION MAT URBAN CLASS I TYPE B
I-I-I-I-I-	SOIL STABILIZER TYPE A
	TRACKING PAD
	SILT FENCE
- - - -	SLOPE INTERCEPT
	INLET PROTECTION

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 32	E



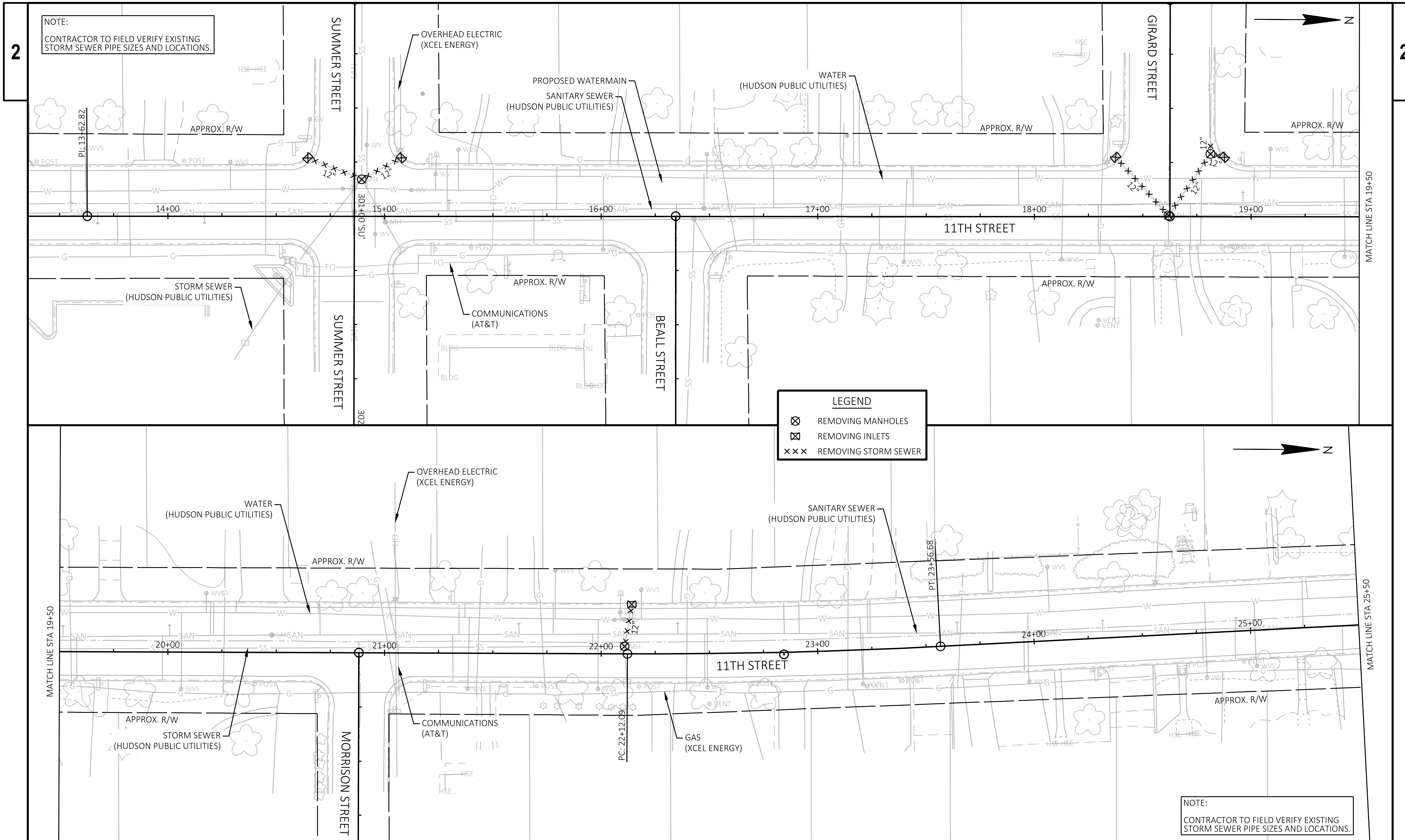
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 33	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022002-ec
PLOT DATE : 11/15/2024 1:40 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



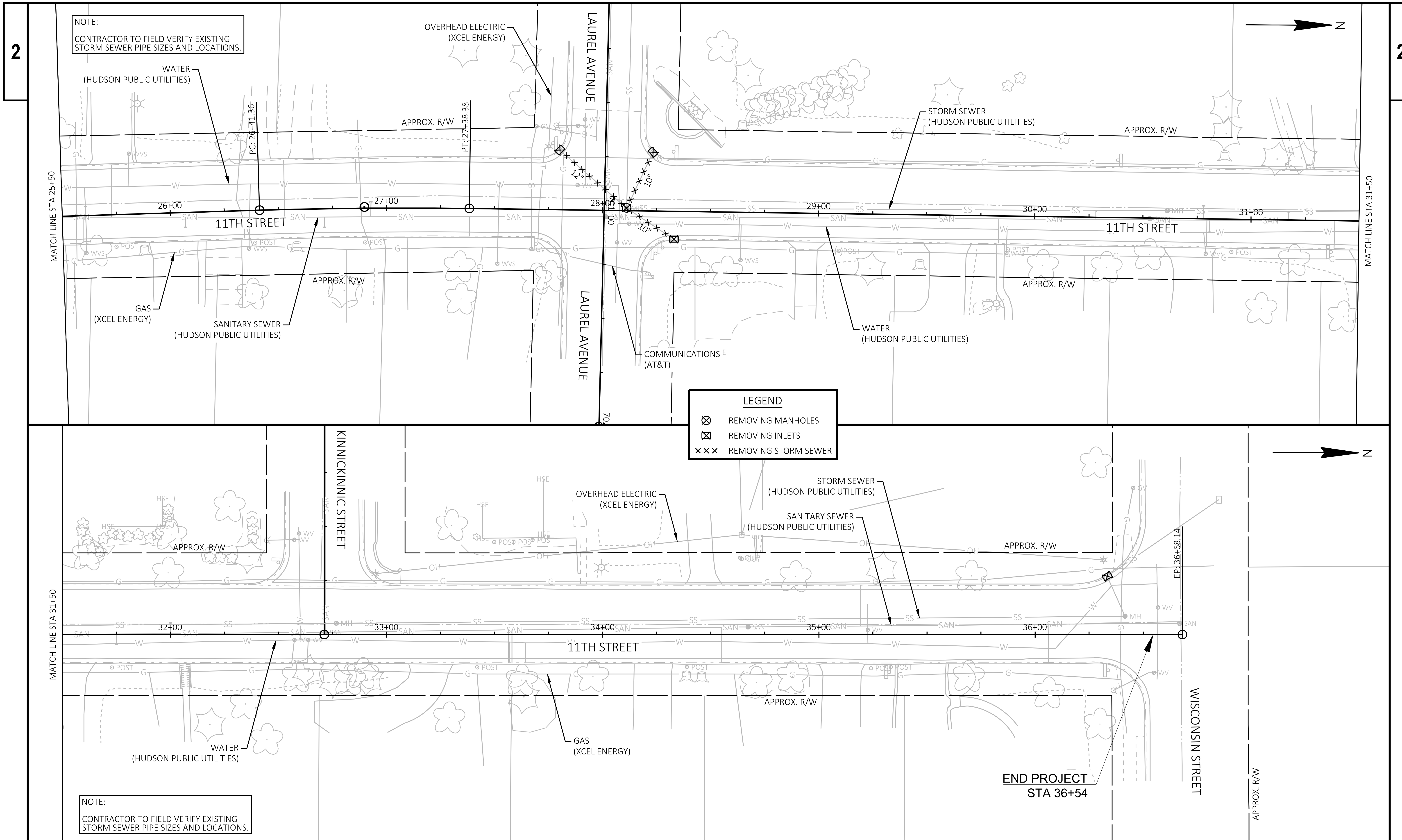
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	EROSION CONTROL	SHEET 34	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022003-ec
PLOT DATE : 11/15/2024 1:40 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



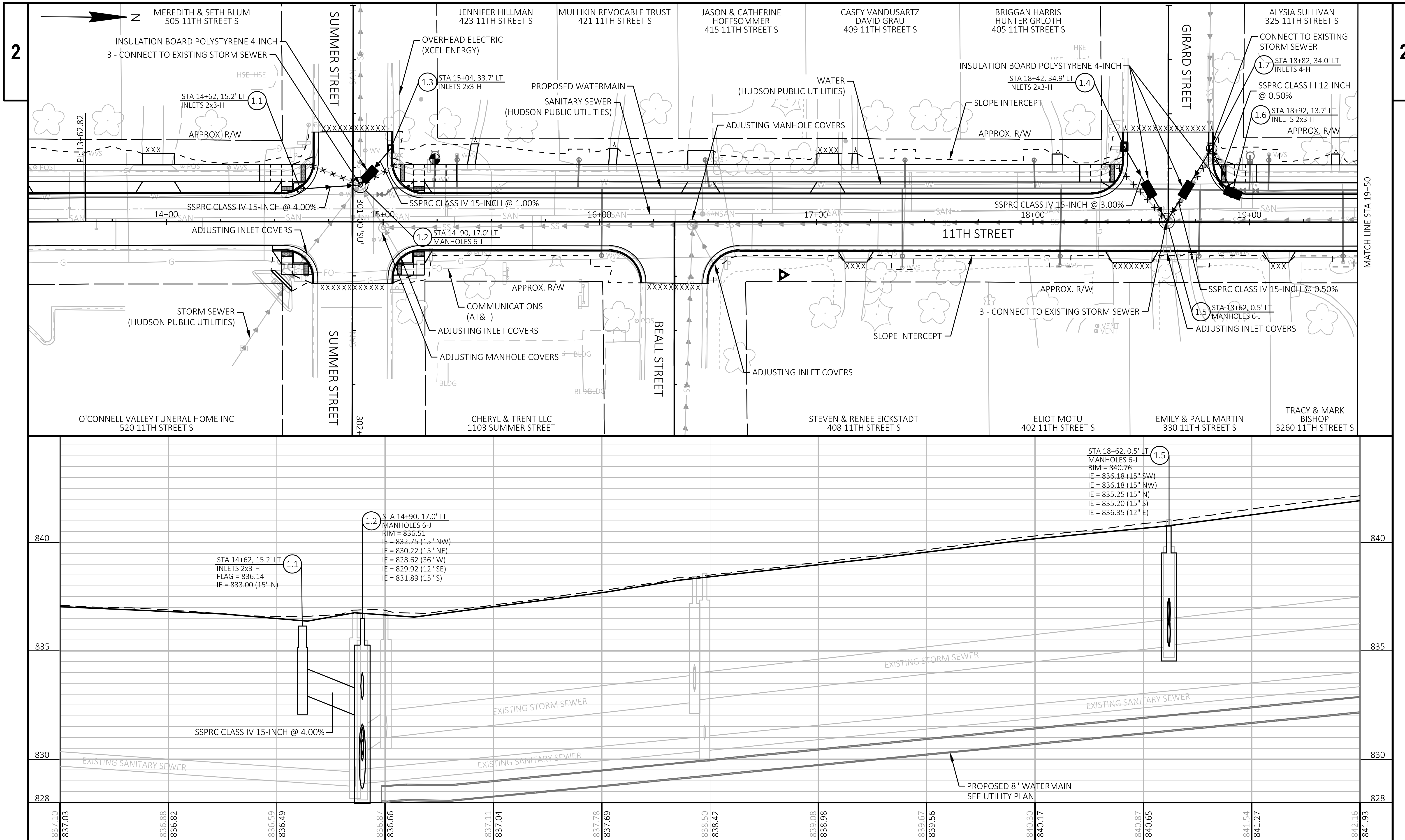
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER REMOVALS	SHEET 35	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\022501-SR.DWG
LAYOUT NAME - 022501-sr
PLOT DATE : 11/15/2024 1:51 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



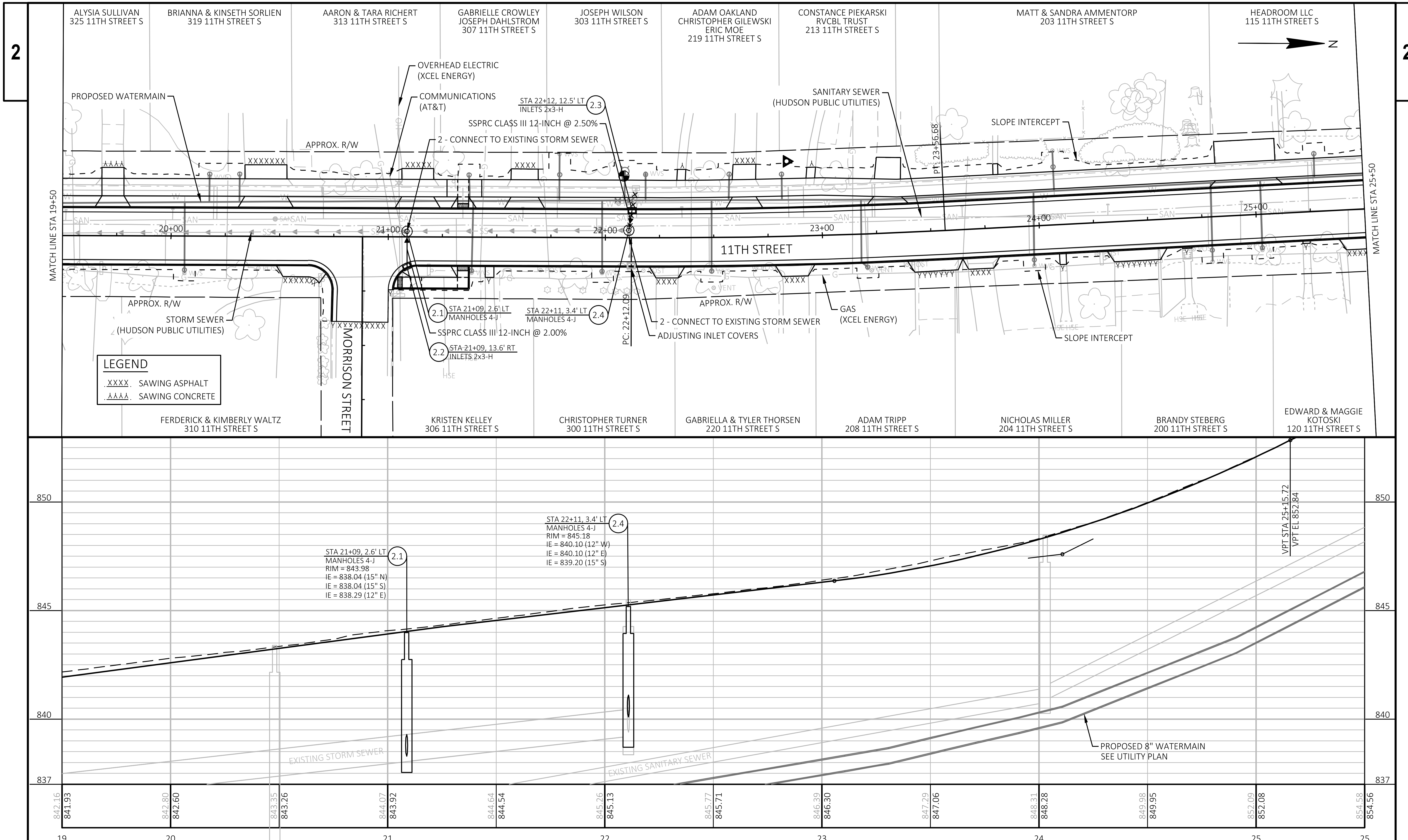
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER REMOVALS	SHEET 36	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\022501-SR.DWG
LAYOUT NAME - 022502-sr
PLOT DATE : 11/15/2024 1:51 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER	SHEET 37	E

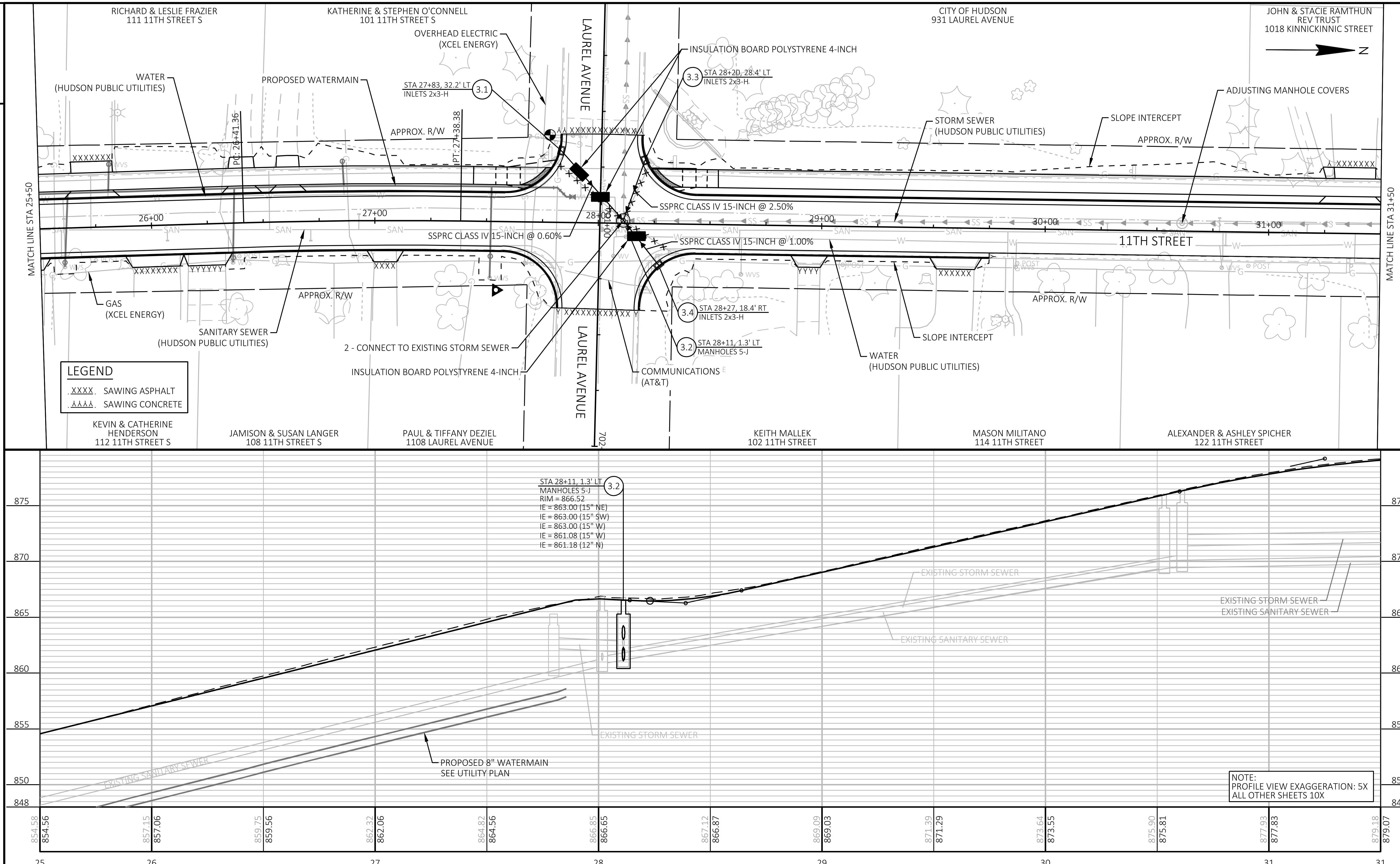
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501-ss
PLOT DATE : 7/23/2024 11:15 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER	SHEET 38	E

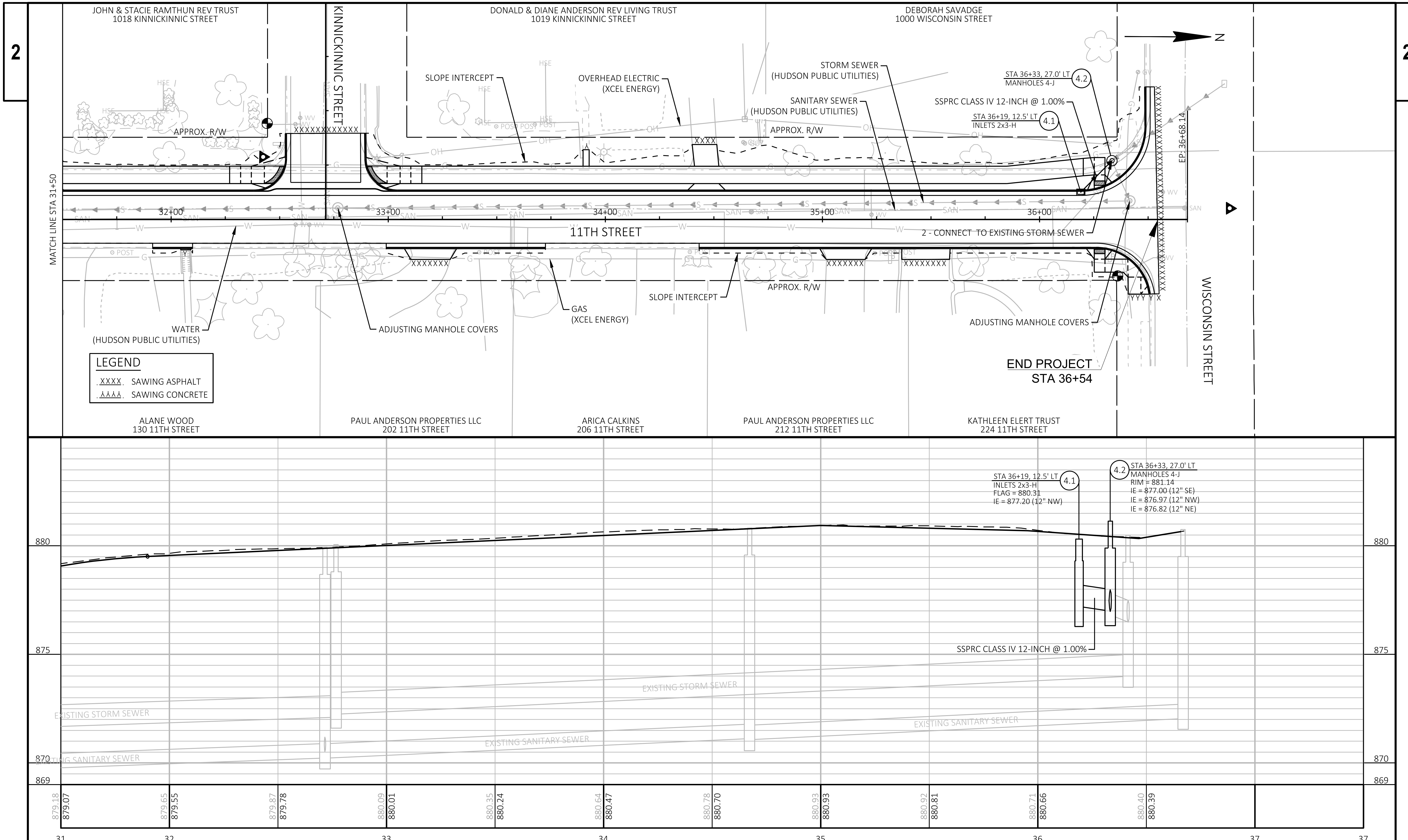
FILE NAME : G:\08\08814\088140026\CADD\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022502-ss
PLOT DATE : 7/23/2024 11:15 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



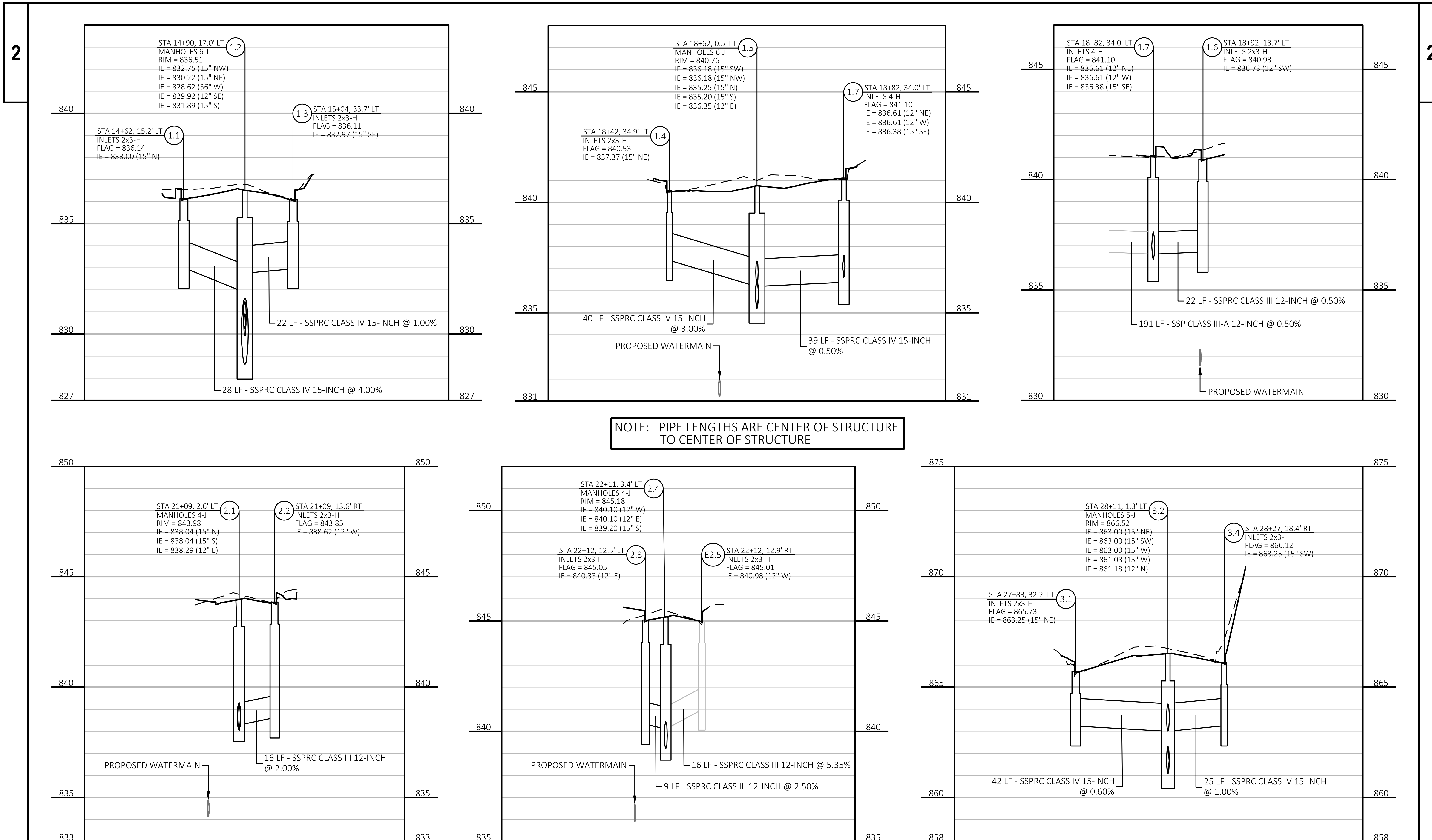
2

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER	SHEET 39	E



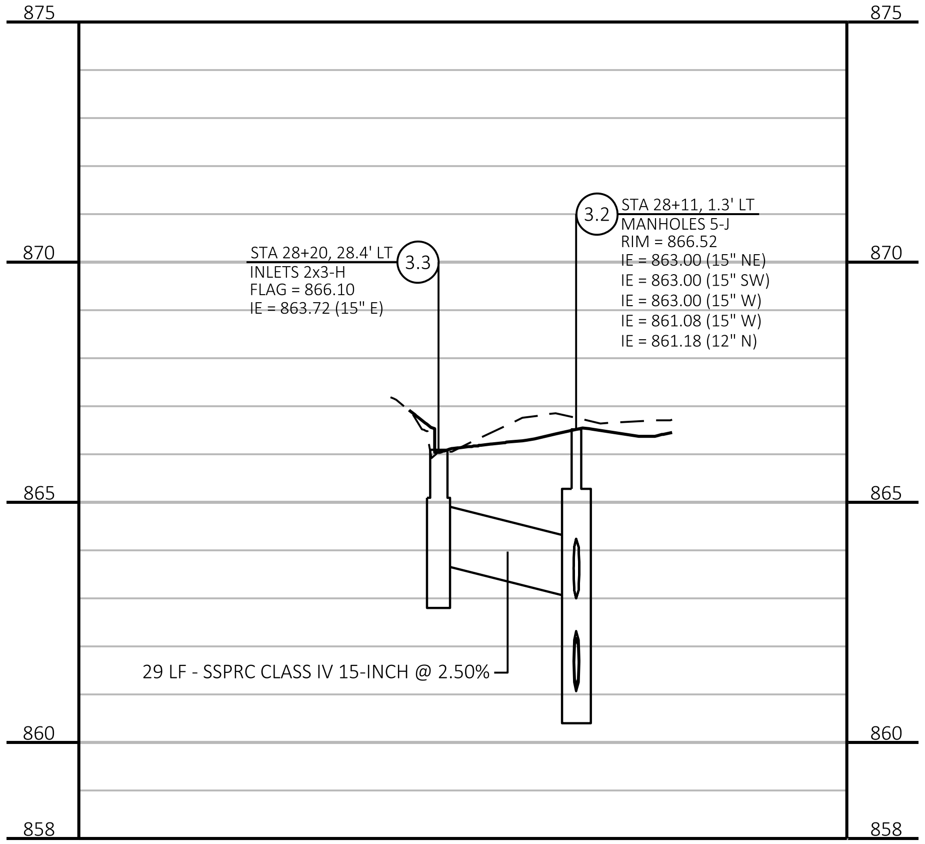
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER	SHEET 40	E

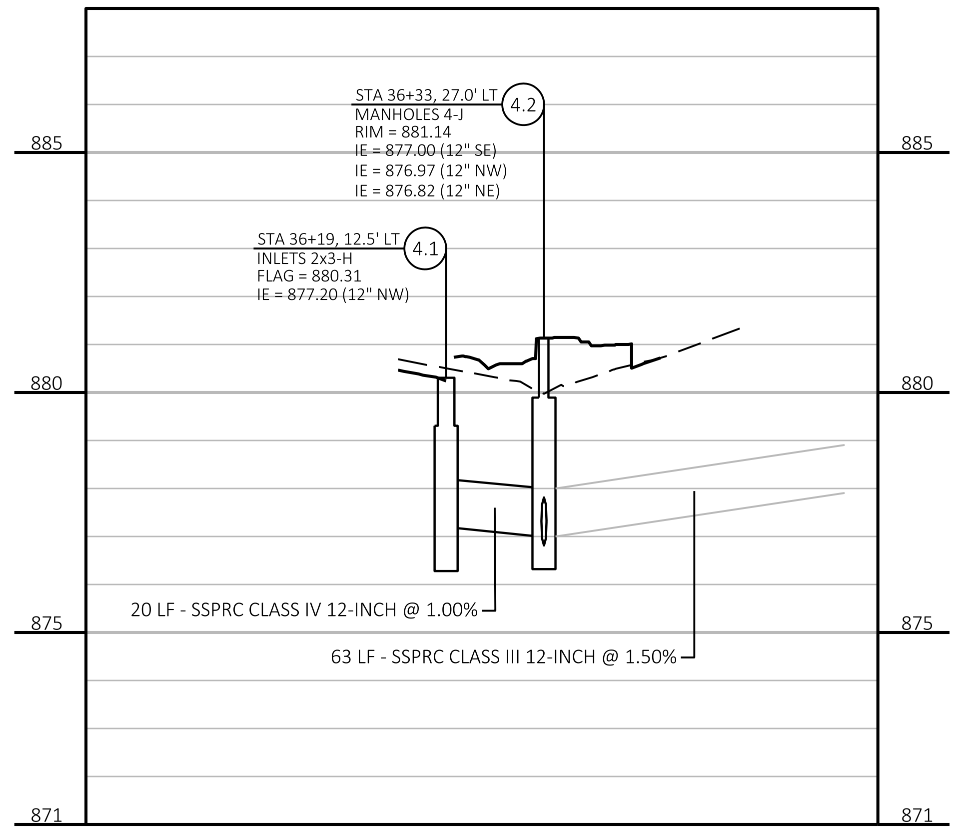
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022504-ss
PLOT DATE : 7/23/2024 11:16 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER	SHEET 41	E

2



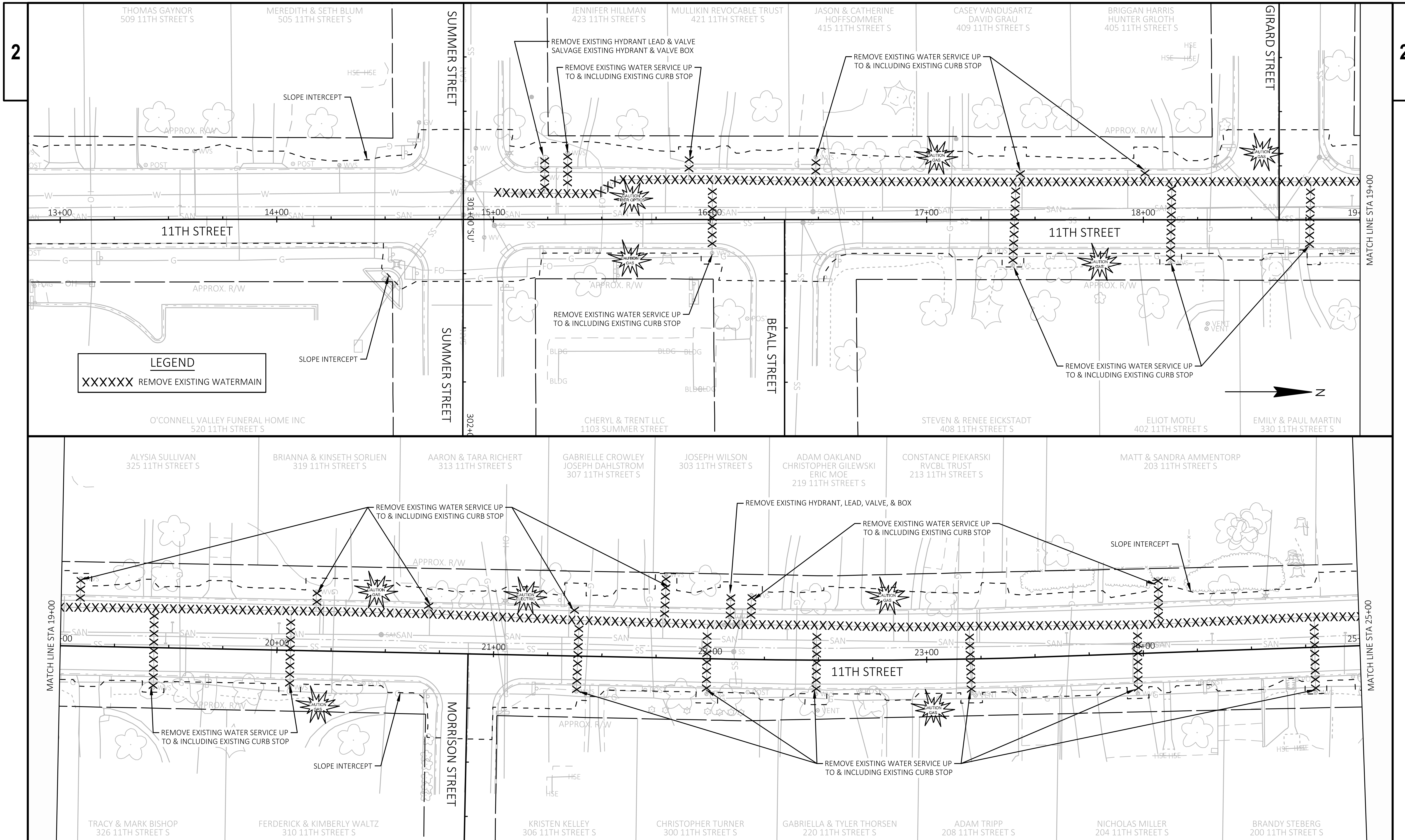


NOTE: PIPE LENGTHS ARE CENTER OF STRUCTURE TO CENTER OF STRUCTURE

2

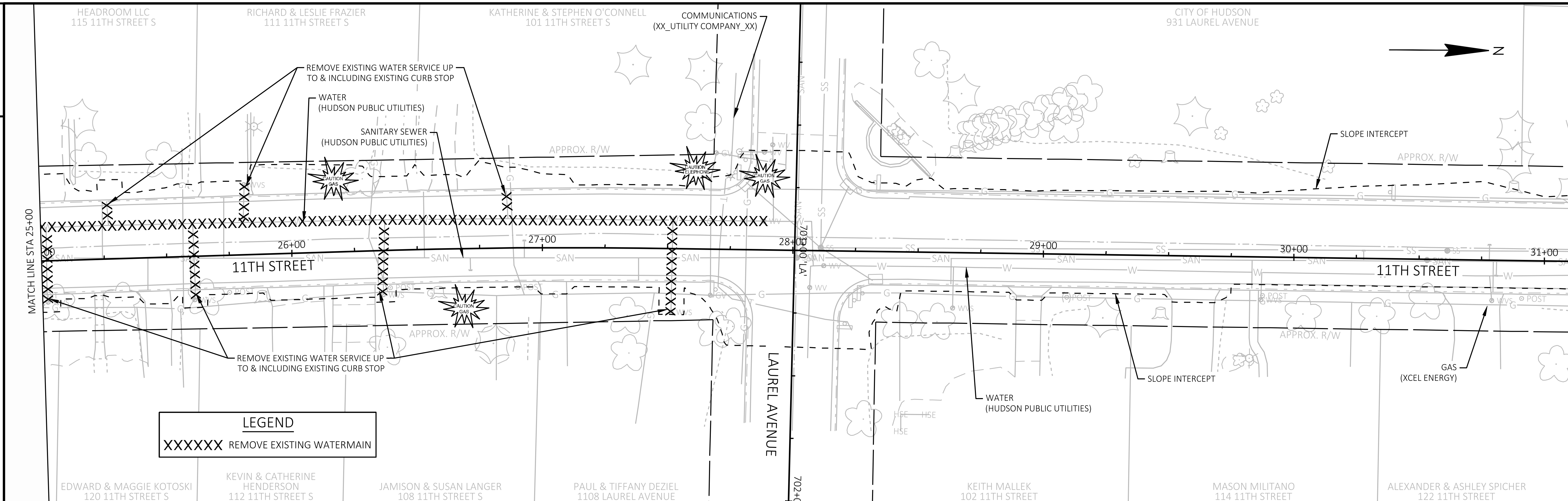
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	STORM SEWER	SHEET 42	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022506-ss
PLOT DATE : 7/23/2024 11:16 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



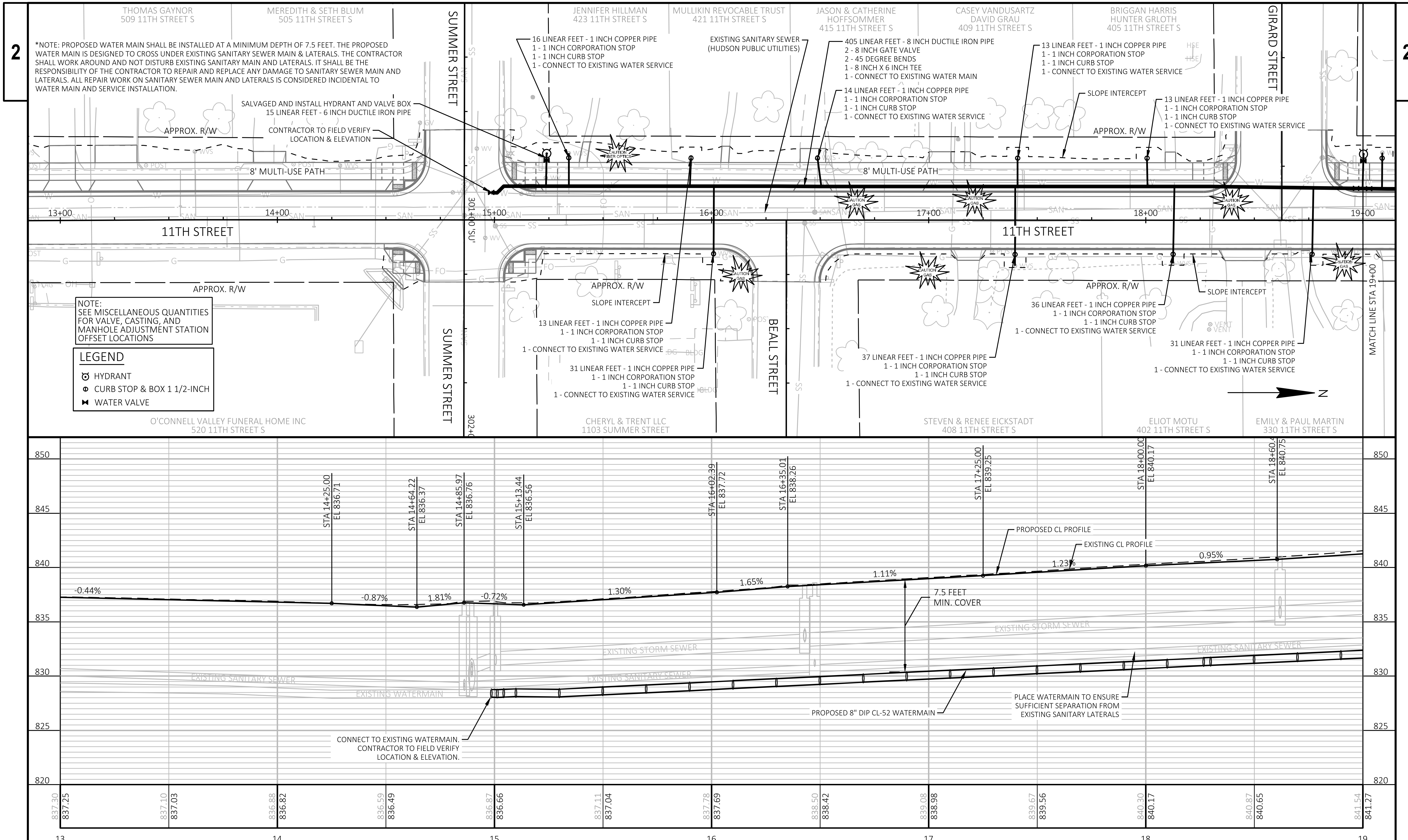
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	UTILITY REMOVAL	SHEET 43	E

FILE NAME : G:\08\08814\088140266\CADD\SHEETSPLAN\023001-UR.DWG PLOT DATE : 7/10/2024 7:39 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : ##########
LAYOUT NAME - 023001-ur



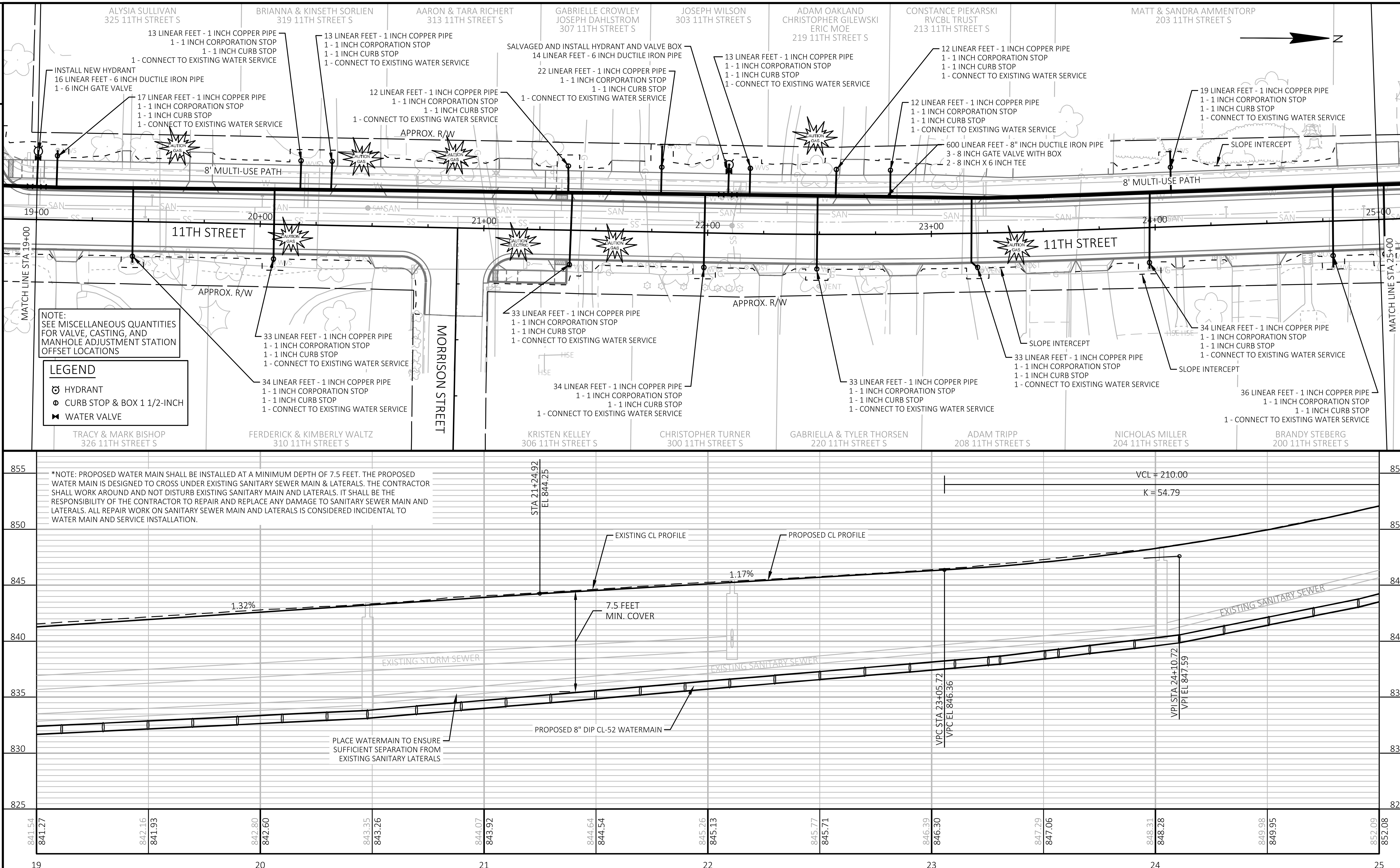
INTENTIONALLY BLANK

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	UTILITY REMOVAL	SHEET 44	E



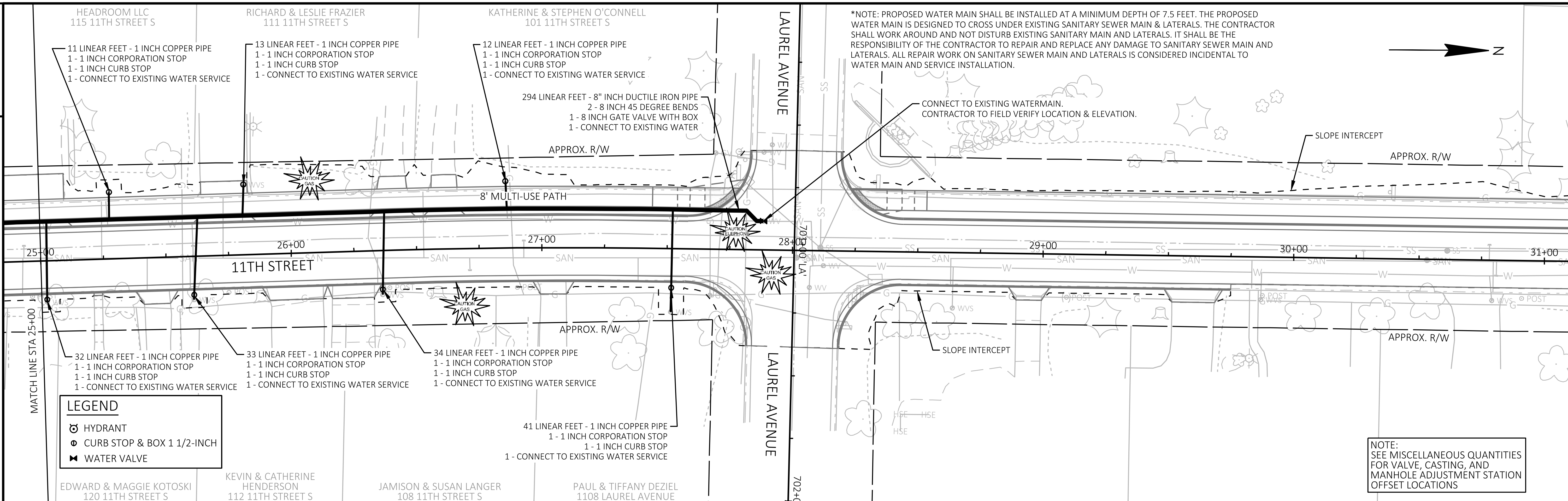
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	UTILITY PLAN	SHEET 45	E

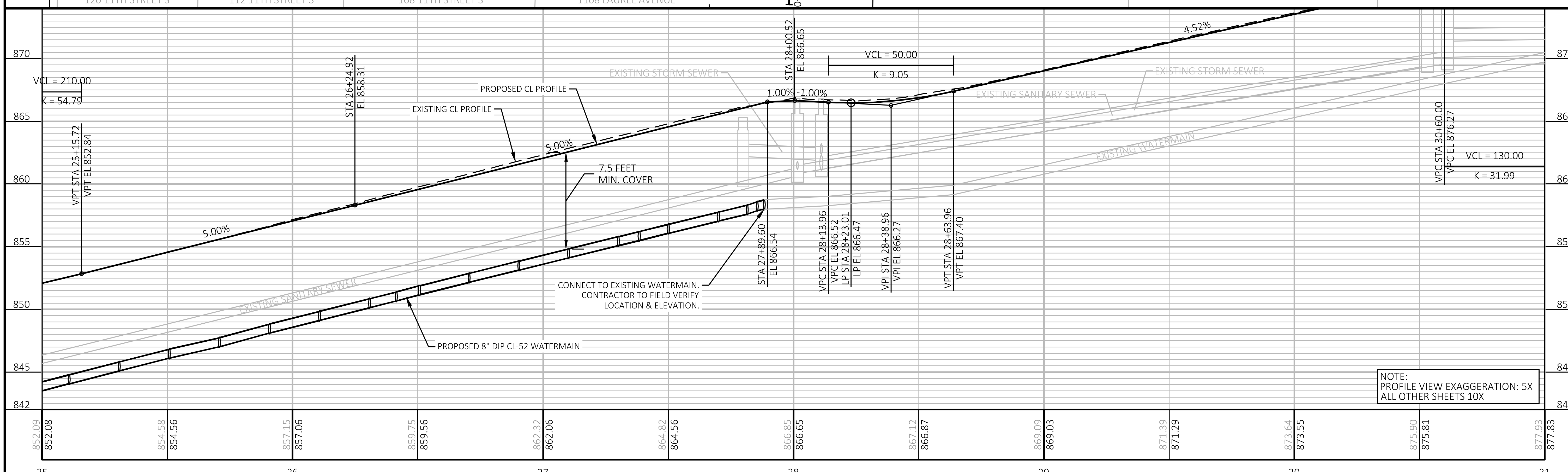
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - 023001-up
PLOT DATE : 7/29/2024 11:37 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	UTILITY PLAN	SHEET 46	E

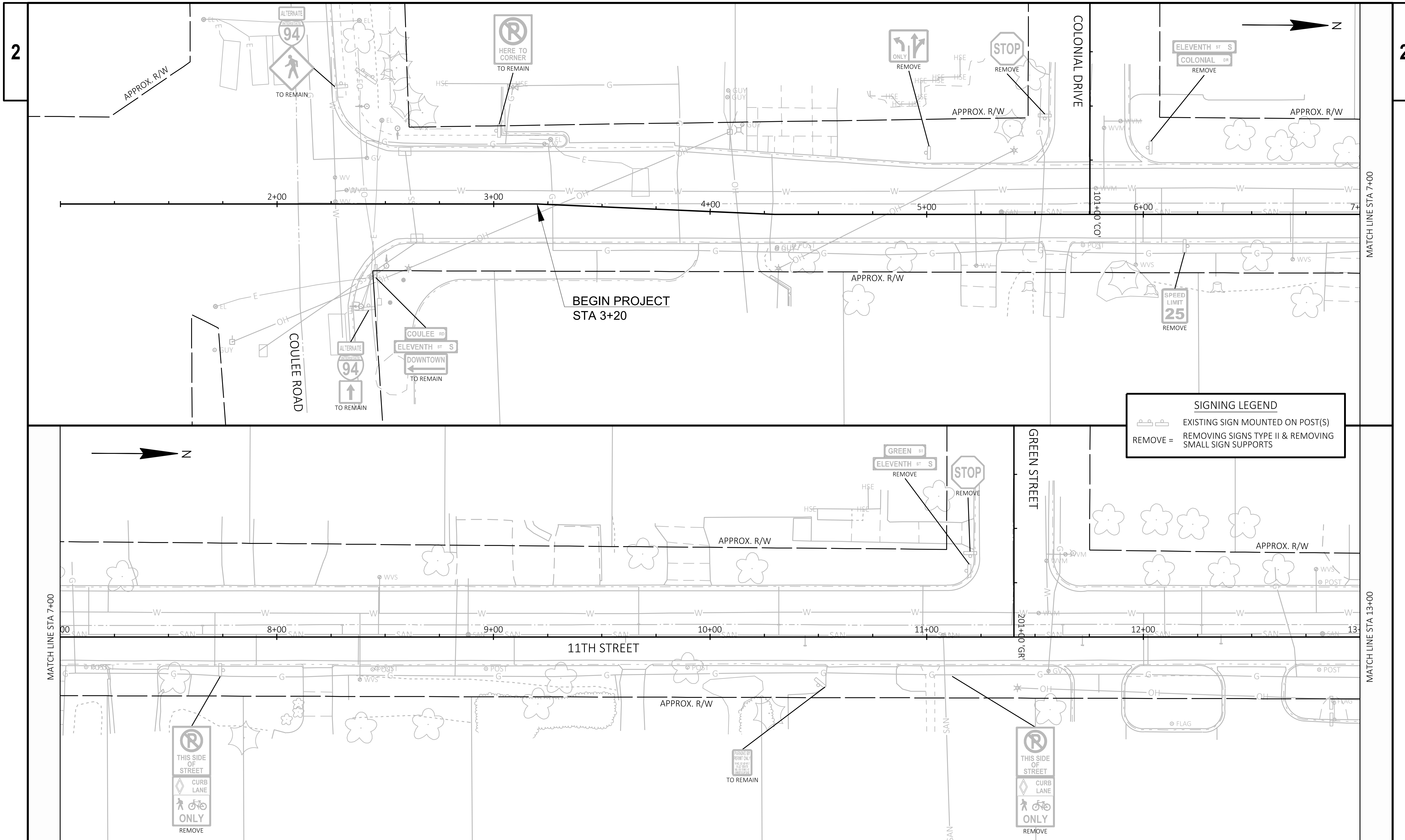
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - 023002-up
PLOT DATE : 7/29/2024 11:37 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	UTILITY PLAN	SHEET 47	E

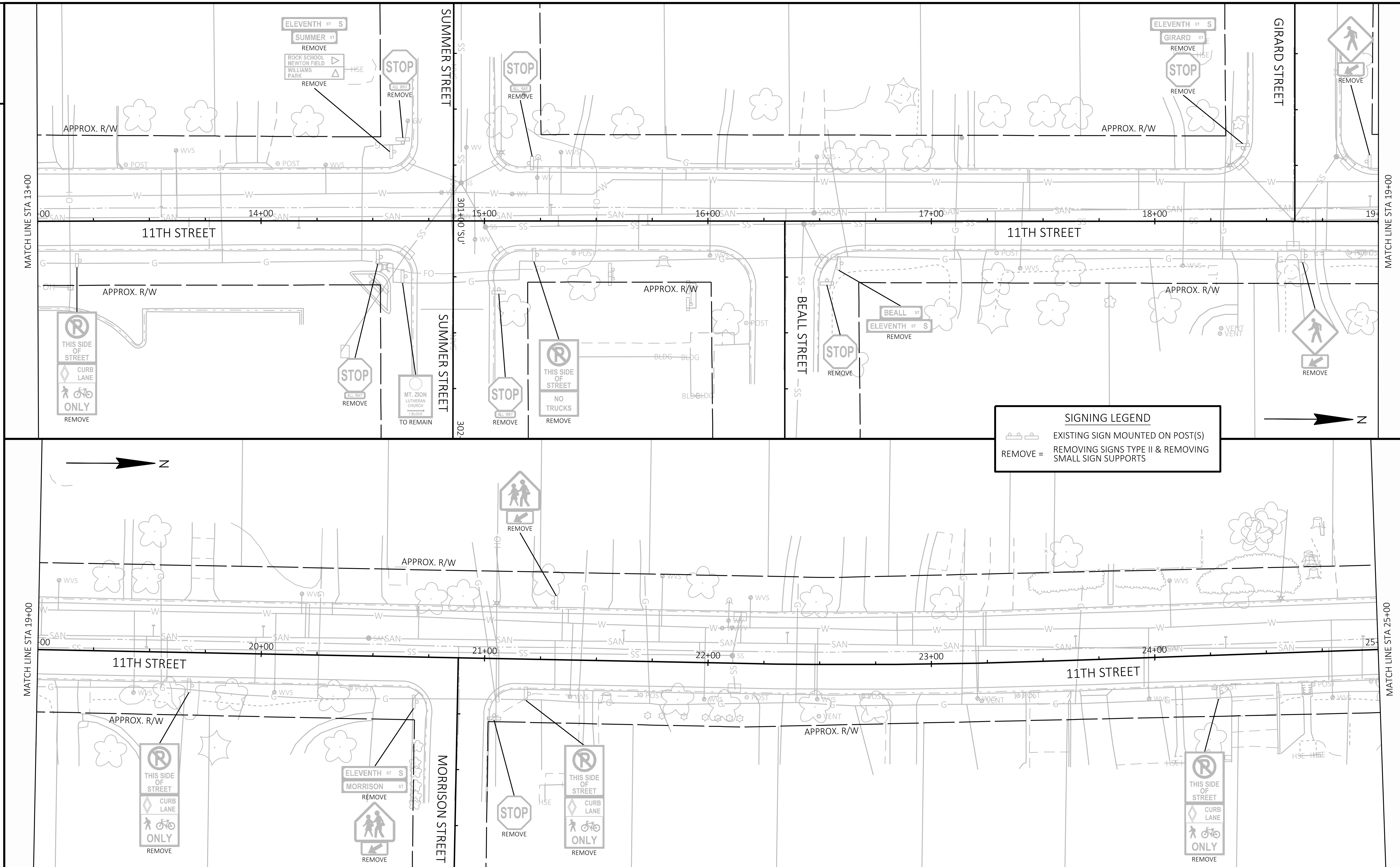
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\023001-UP.DWG PLOT DATE : 7/29/2024 11:37 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT
LAYOUT NAME - 023003-up



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 48	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\023201-SR.DWG
LAYOUT NAME - 023201-sr
PLOT DATE : 7/10/2024 10:39 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

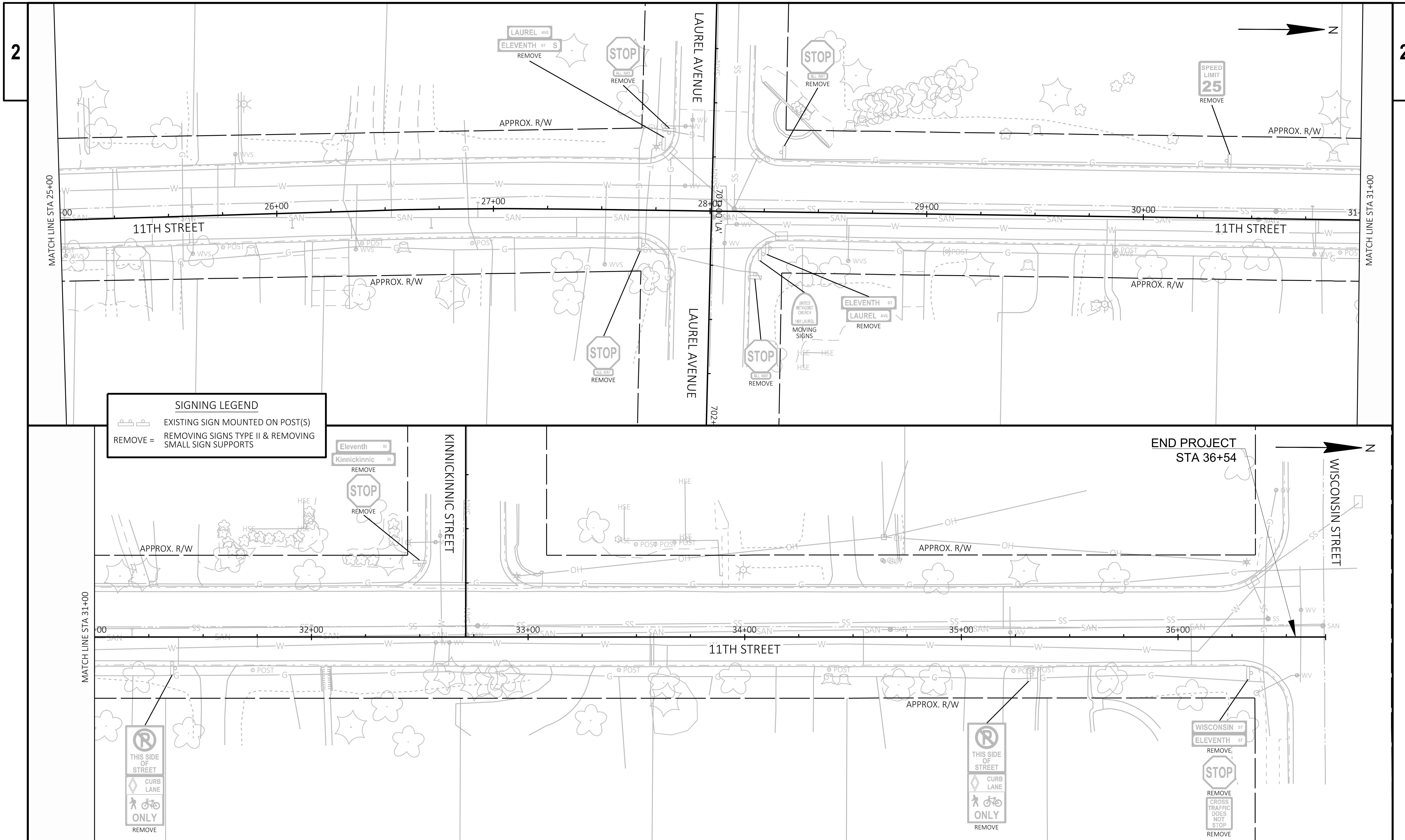
2



2

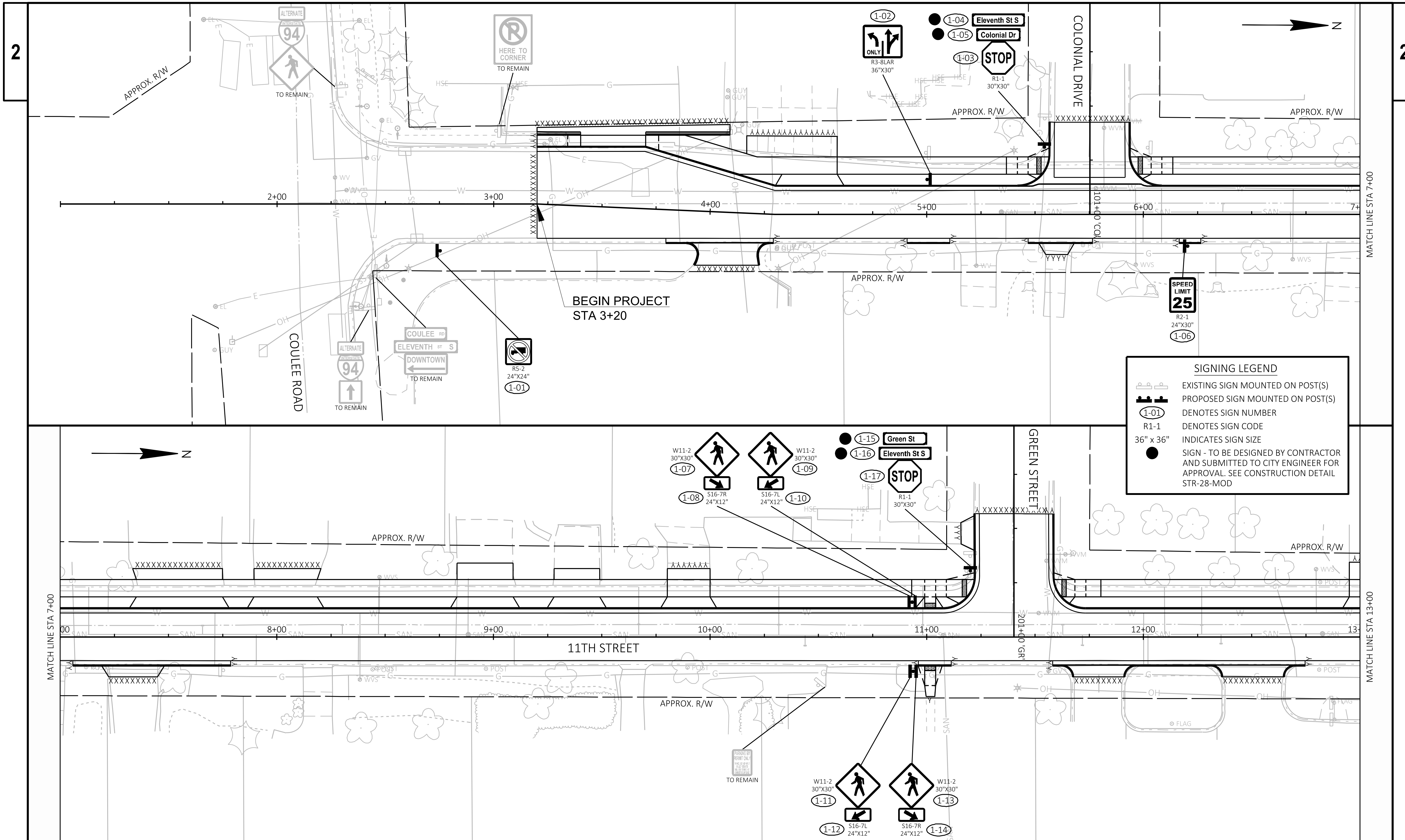
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 49	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\023201-SR.DWG
LAYOUT NAME - 023202-sr
PLOT DATE : 7/10/2024 10:39 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



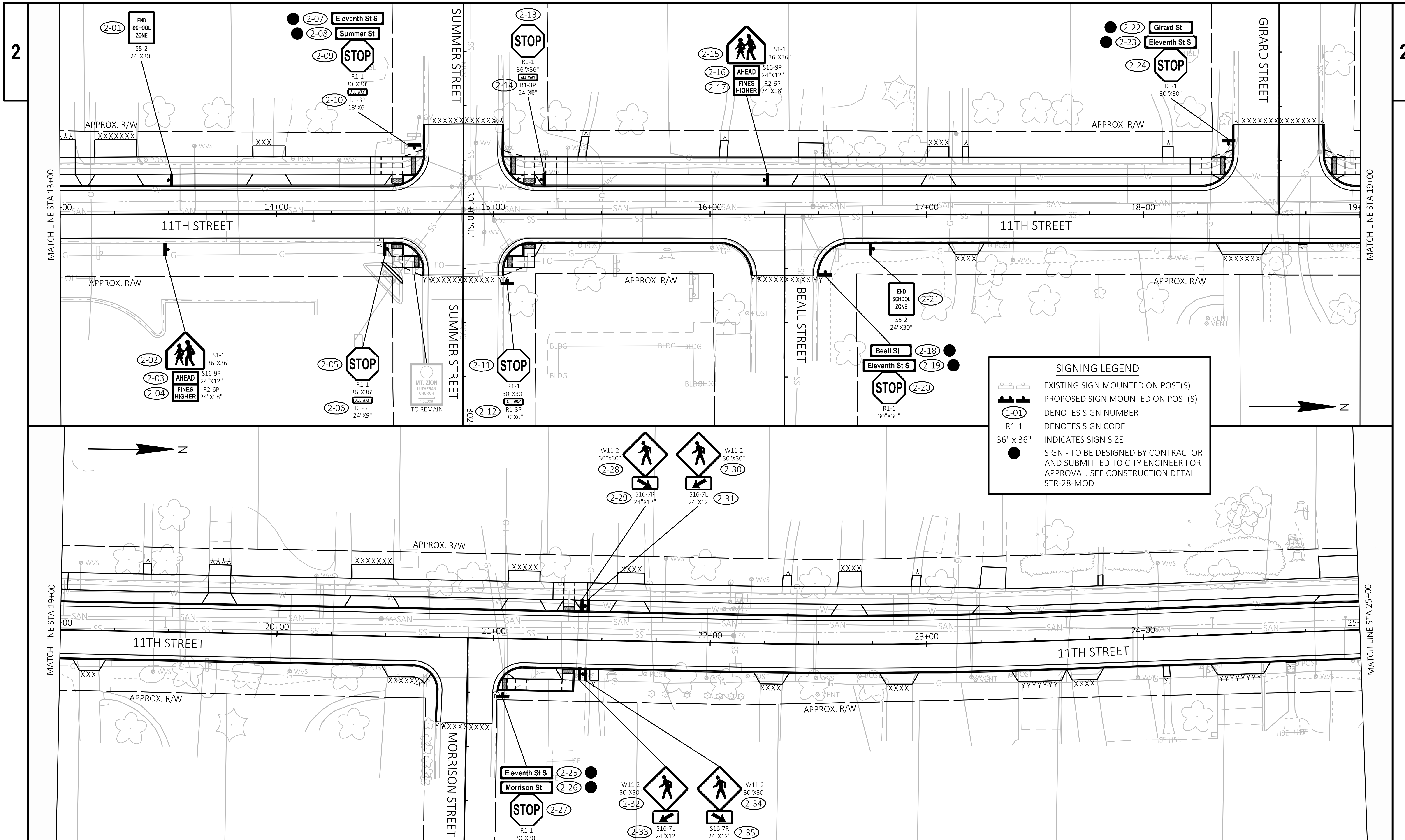
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	EXISTING SIGNING	SHEET 50	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\023201-SR.DWG
LAYOUT NAME - 023203-sr
PLOT DATE : 7/10/2024 10:40 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



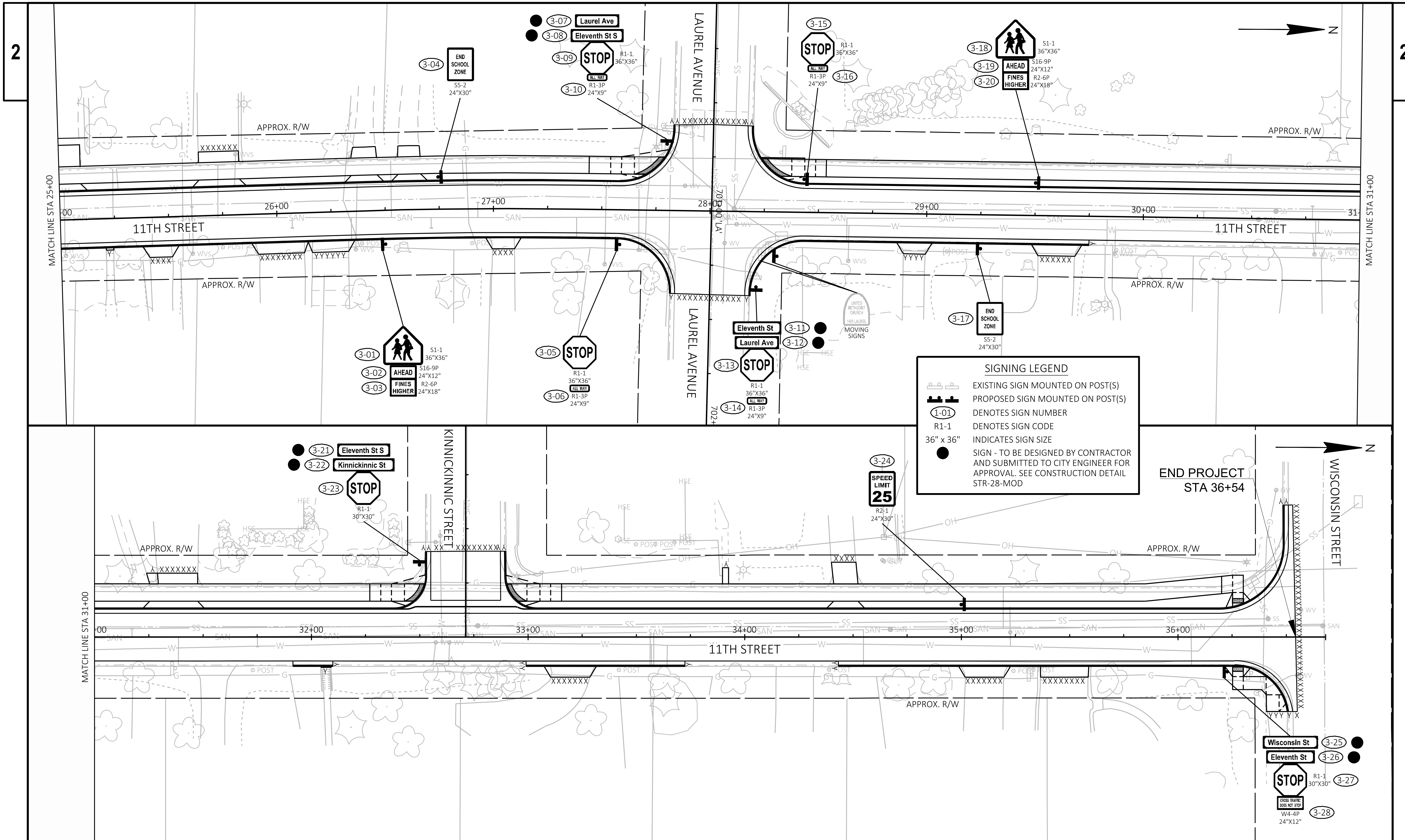
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 51	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023201-ps
PLOT DATE : 11/15/2024 3:31 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

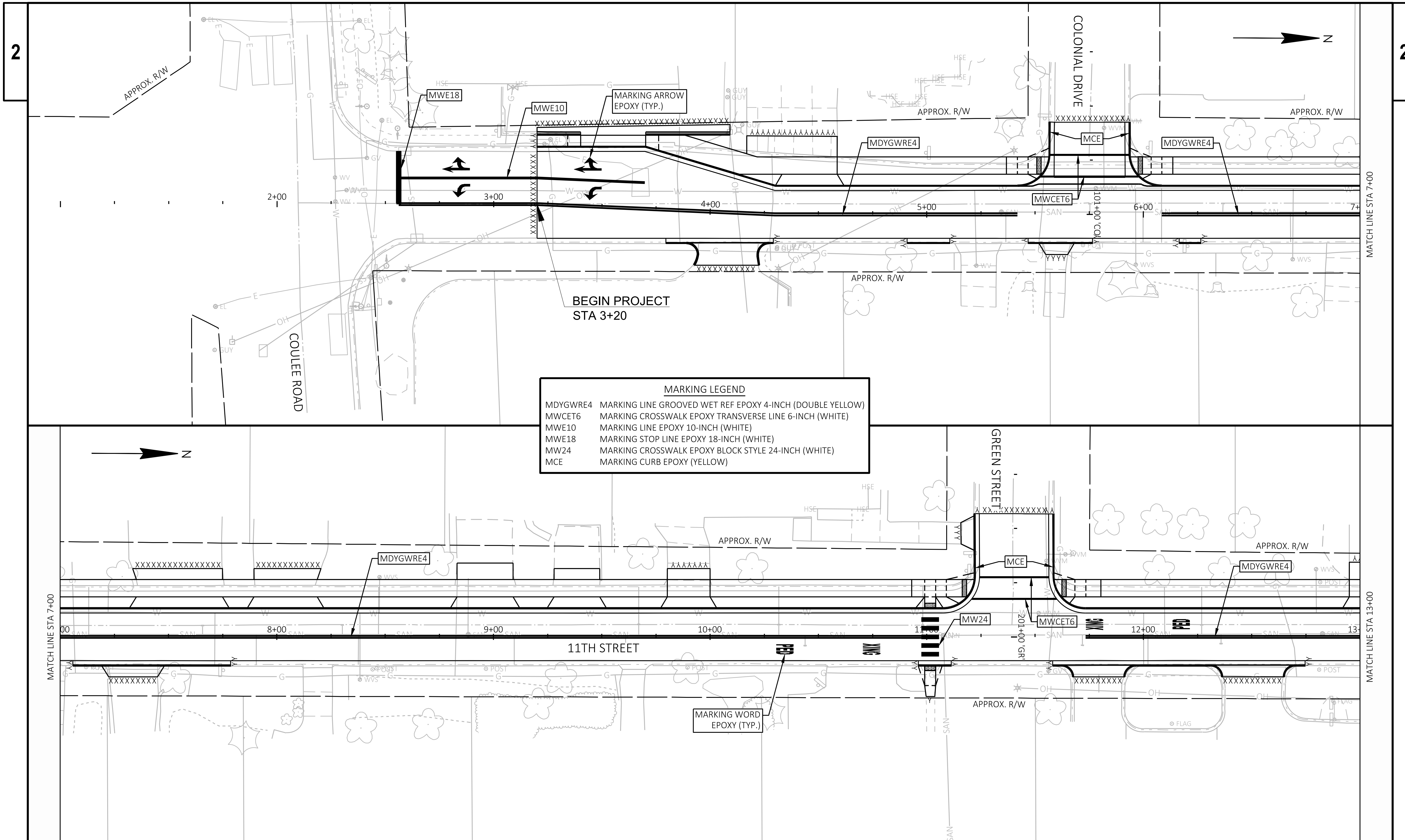


PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 52	E

FILE NAME : G:\08\08814\088814026\CADD\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023202-ps
PLOT DATE : 11/15/2024 3:31 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



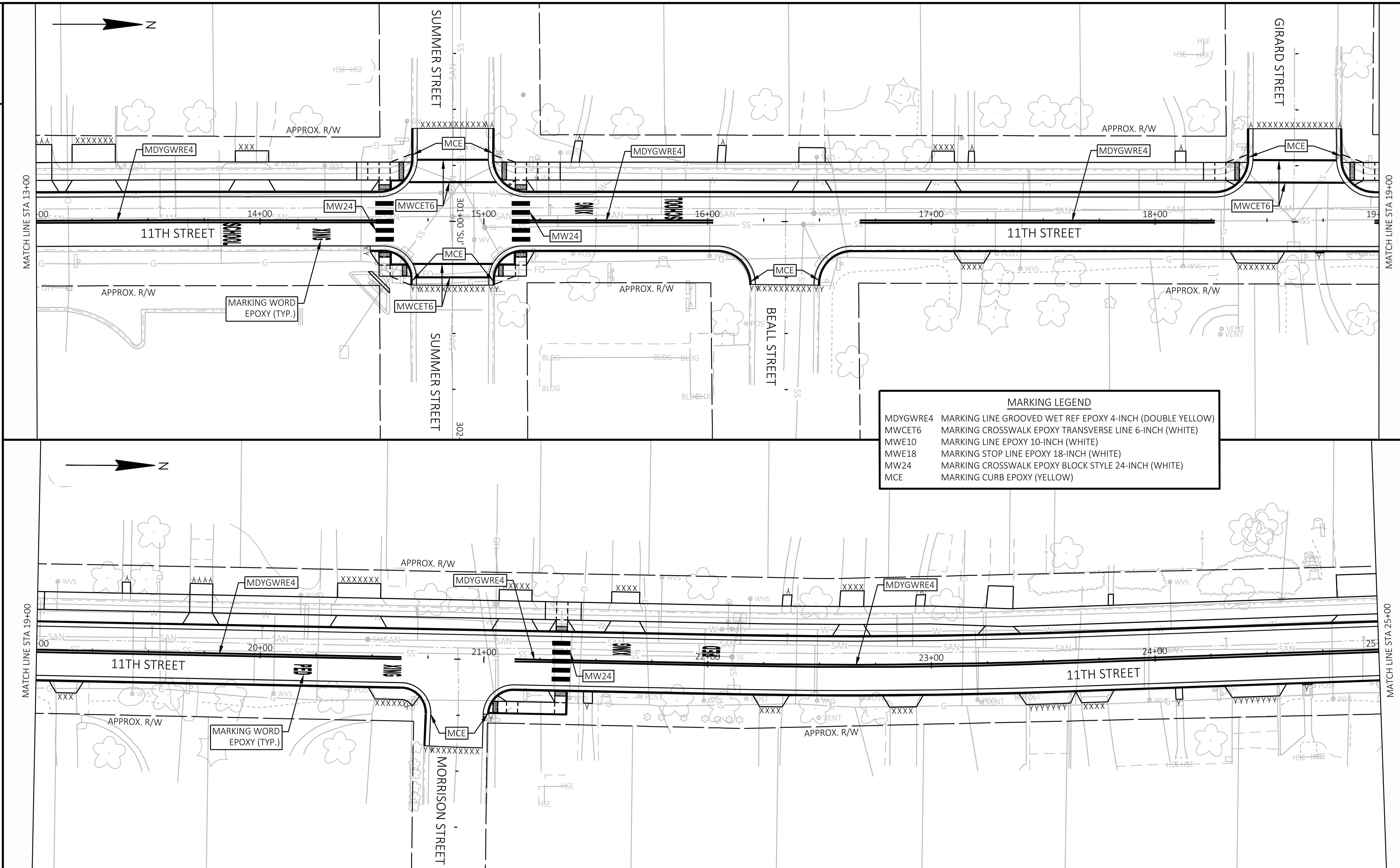
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PERMANENT SIGNING	SHEET 53	E



MARKING LEGEND

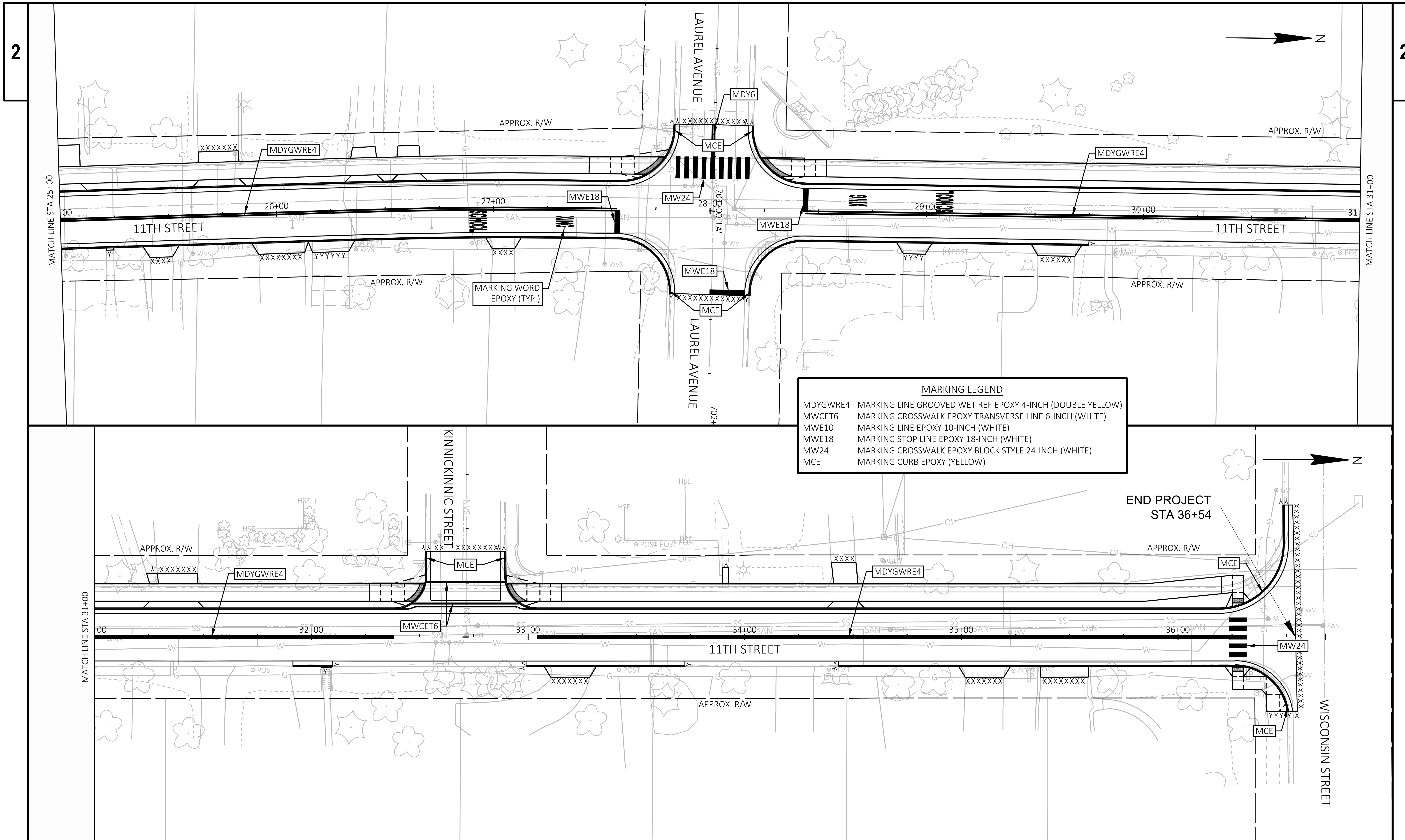
MDYGWRE4	MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
MWCET6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
MWE10	MARKING LINE EPOXY 10-INCH (WHITE)
MWE18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
MW24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
MCE	MARKING CURB EPOXY (YELLOW)

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 54	E



MARKING LEGEND

MDYGWRE4	MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
MWCET6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
MWE10	MARKING LINE EPOXY 10-INCH (WHITE)
MWE18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
MW24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
MCE	MARKING CURB EPOXY (YELLOW)



	MARKING LEGEND
MDYGWRE4	MARKING LINE GROOVED WET REF EPOXY 4-INCH (DOUBLE YELLOW)
MWCET6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
MWE10	MARKING LINE EPOXY 10-INCH (WHITE)
MWE18	MARKING STOP LINE EPOXY 18-INCH (WHITE)
MW24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH (WHITE)
MCE	MARKING CURB EPOXY (YELLOW)

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PAVEMENT MARKING	SHEET 56	E

2

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TYPE II BARRICADE WTH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

1 ROAD WORK AHEAD W20-1A

2 END ROAD WORK G20-2A 48"X24"

3 R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC TYPE III BARRICADE

4 TYPE III BARRICADE

5 R9-9 30" X 18" SIDEWALK CLOSED TYPE II BARRICADE

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY ENGINEER.

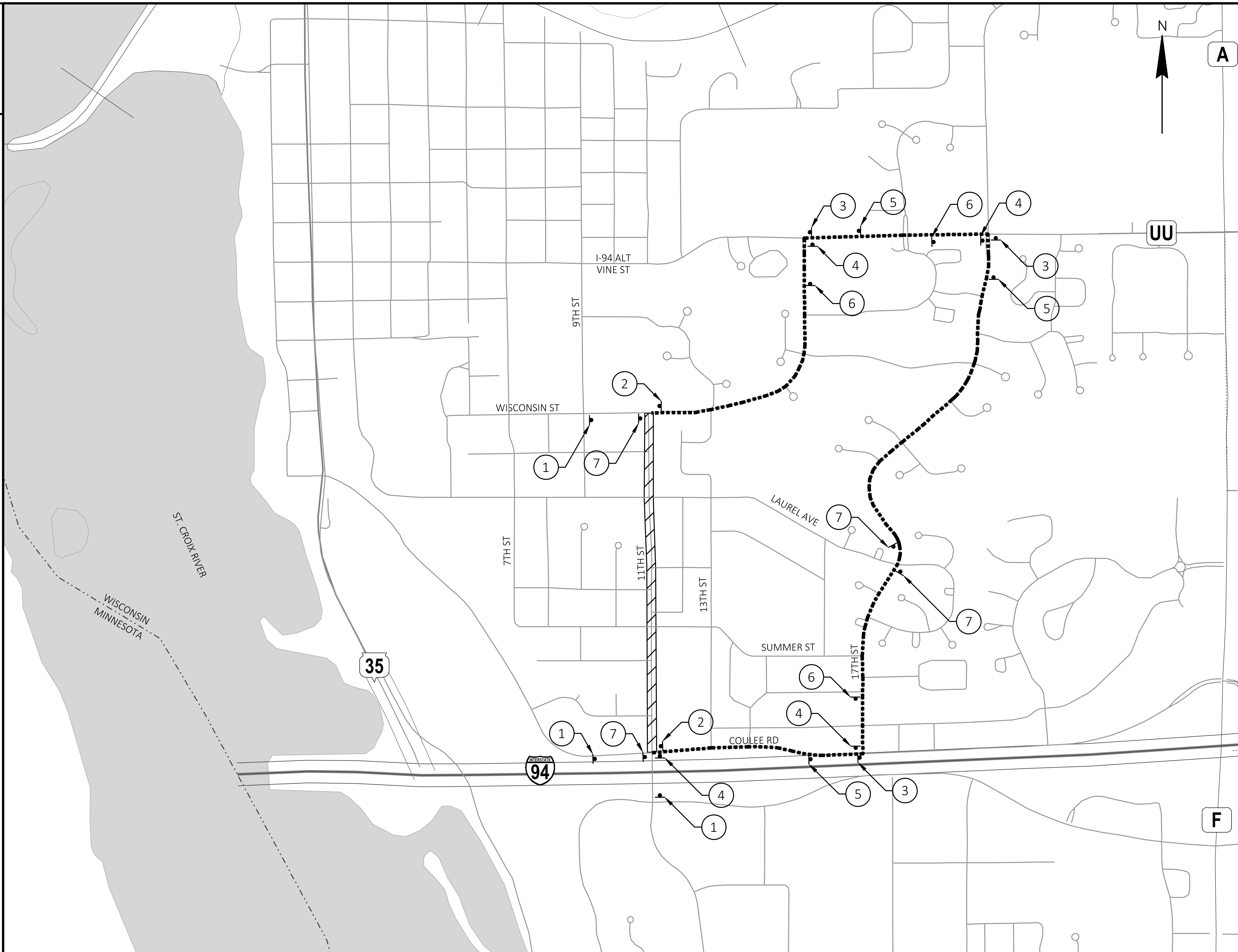
ANY SIGN, TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR DETAILS NOT SHOWN SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", "DETOUR SIGNING FOR MAINLINE CLOSURES", AND "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

ALL WORK ZONE SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

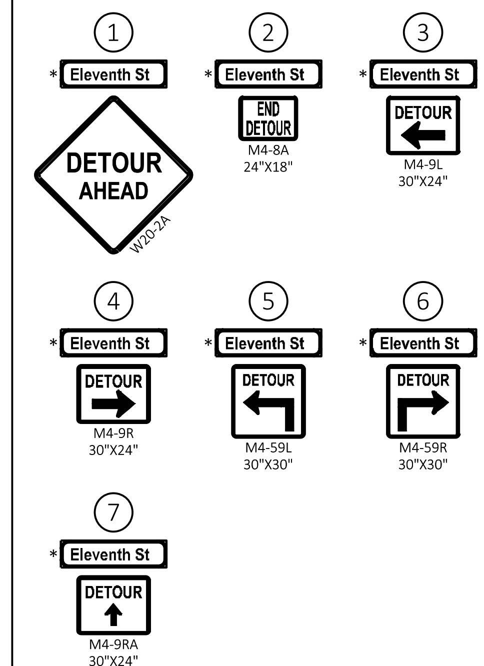
2

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	TRAFFIC CONTROL - ADVANCED WARNING OVERVIEW	SHEET 57	E



LEGEND

- SIGN ON PERMANENT SUPPORT
- DETOUR ROUTE
- WORK AREA



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY ENGINEER.

ANY SIGN, TEMPORARY OR EXISTING, WHICH CONFLICTS WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR DETAILS NOT SHOWN SEE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", "DETOUR SIGNING FOR MAINLINE CLOSURES", AND "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

ALL WORK ZONE SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

* SIGN - TO BE DESIGNED BY CONTRACTOR AND SUBMITTED TO CITY ENGINEER FOR APPROVAL. SEE CITY OF HUDSON STANDARD PLATE STR-28-MOD

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	TRAFFIC CONTROL - DETOUR OVERVIEW	SHEET 58	E

PI STA = 100+00.00 'CO'
Y = 338,439.06
X = 514,350.71

PI STA = 101+00.00 'CO'
Y = 338,439.48
X = 514,450.71

PI STA = 200+00.00 'GR'
Y = 339,004.03
X = 514,348.34

PI STA = 201+00.00 'GR'
Y = 339,004.45
X = 514,448.33

PI STA = 300+00.00 'SU'
Y = 339,350.44
X = 514,347.43

PI STA = 302+00.00 'SU'
Y = 339,350.06
X = 514,547.43

PI STA = 500+00.00 'GI'
Y = 339,726.78
X = 514,347.52

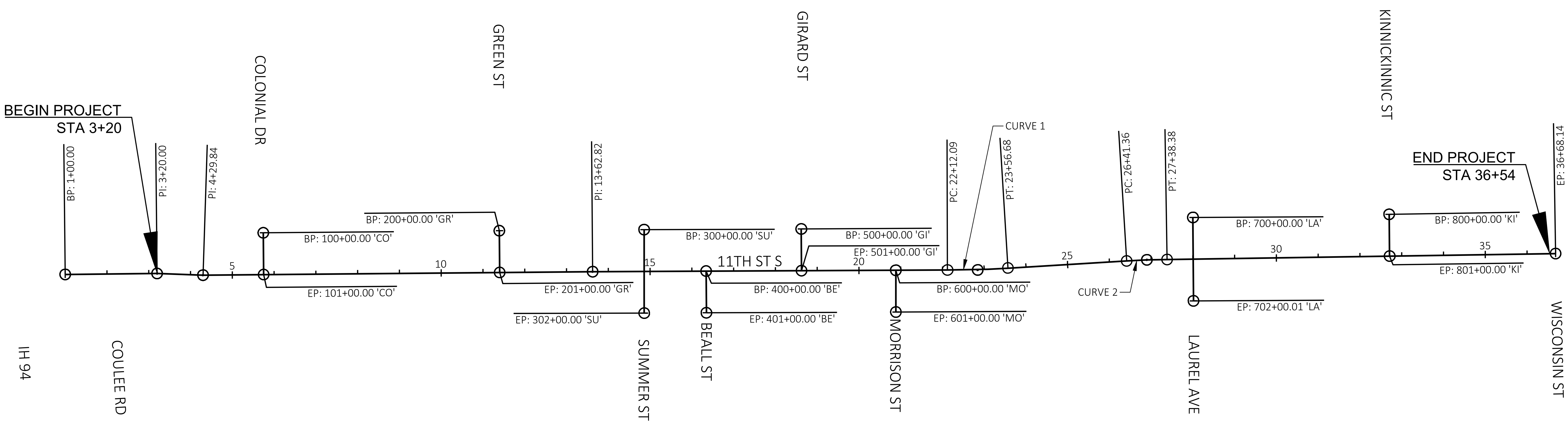
PI STA = 501+00.00 'GI'
Y = 339,726.75
X = 514,447.52

PI STA = 700+00.00 'LA'
Y = 340,664.28
X = 514,324.22

PI STA = 702+00.01 'LA'
Y = 340,664.37
X = 514,524.23

PI STA = 800+00.00 'KI'
Y = 341,133.73
X = 514,319.29

PI STA = 801+00.00 'KI'
Y = 341,134.78
X = 514,419.29



PI STA = 400+00.00 'BE'
Y = 339,498.63
X = 514,447.46

PI STA = 401+00.00 'BE'
Y = 339,498.60
X = 514,547.46

PI STA = 600+00.00 'MO'
Y = 339,952.38
X = 514,447.57

PI STA = 601+00.00 'MO'
Y = 339,952.35
X = 514,547.57

PI STA = 1+00.00
Y = 337,964.27
X = 514,447.95

PI STA = 4+29.84
Y = 338,294.03
X = 514,451.32

PI STA = 3+20.00
Y = 338,184.27
X = 514,447.03

CURVE 1
PI STA = 22+84.40
Y = 340148.582
X = 514447.617
DELTA = 3°09'23" LT
D = 2°10'59"
T = 72.31'
L = 144.59'
R = 2624.62'
PC STA = 22+12.09
Y = 340076.270
X = 514447.600
PT STA = 23+56.68
Y = 340220.785
X = 514443.653
DB = N00°00'49"E
DA = N03°08'34"W
SE = N/A

CURVE 2
PI STA = 26+89.88
Y = 340553.482
X = 514425.385
DELTA = 2°32'30" RT
D = 2°37'11"
T = 48.52'
L = 97.02'
R = 2187.06'
PC STA = 26+41.36
Y = 340505.037
X = 514428.045
PT STA = 27+38.38
Y = 340601.998
X = 514424.876
DB = N03°08'34"W
DA = N00°36'04"W
SE = N/A

PI STA = 36+68.14
Y = 341,531.71
X = 514,415.12

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	ALIGNMENT DIAGRAM	SHEET 59	E

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	8999-00-87 Qty
0002	201.0105	Clearing	STA	8.000	8.000
0004	201.0205	Grubbing	STA	8.000	8.000
0006	204.0100	Removing Concrete Pavement	SY	150.000	150.000
0008	204.0150	Removing Curb & Gutter	LF	5,620.000	5,620.000
0010	204.0155	Removing Concrete Sidewalk	SY	80.000	80.000
0012	204.0210	Removing Manholes	EACH	5.000	5.000
0014	204.0220	Removing Inlets	EACH	9.000	9.000
0016	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	247.000	247.000
0018	205.0100	Excavation Common	CY	5,551.000	5,551.000
0020	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 8999-00-87	EACH	1.000	1.000
0022	211.0500	Prepare Foundation for Base Aggregate	STA	34.000	34.000
0024	213.0100	Finishing Roadway (project) 01. 8999-00-87	EACH	1.000	1.000
0026	305.0110	Base Aggregate Dense 3/4-Inch	TON	20.000	20.000
0028	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	220.000	220.000
0030	455.0605	Tack Coat	GAL	670.000	670.000
0032	460.2000	Incentive Density HMA Pavement	DOL	2,010.000	2,010.000
0034	460.5245	HMA Pavement 5 LT 58-34 S	TON	430.000	430.000
0036	460.6223	HMA Pavement 3 MT 58-28 S	TON	1,620.000	1,620.000
0038	460.6445	HMA Pavement 5 MT 58-34 H	TON	1,080.000	1,080.000
0040	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	40.000	40.000
0042	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	20.000	20.000
0044	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	5,713.000	5,713.000
0046	601.0600	Concrete Curb Pedestrian	LF	101.000	101.000
0048	602.0405	Concrete Sidewalk 4-Inch	SF	4,180.000	4,180.000
0050	602.0415	Concrete Sidewalk 6-Inch	SF	690.000	690.000
0052	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	258.000	258.000
0054	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	92.520	92.520
0056	602.0810	Concrete Driveway 6-Inch	SY	385.000	385.000
0058	602.0815	Concrete Driveway 7-Inch	SY	70.000	70.000
0060	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	47.000	47.000
0062	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	20.000	20.000
0064	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	225.000	225.000
0066	611.0530	Manhole Covers Type J	EACH	6.000	6.000
0068	611.0624	Inlet Covers Type H	EACH	11.000	11.000
0070	611.2004	Manholes 4-FT Diameter	EACH	3.000	3.000
0072	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0074	611.2006	Manholes 6-FT Diameter	EACH	2.000	2.000
0076	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000
0078	611.3230	Inlets 2x3-FT	EACH	10.000	10.000
0080	611.8110	Adjusting Manhole Covers	EACH	6.000	6.000
0082	611.8115	Adjusting Inlet Covers	EACH	5.000	5.000
0084	612.0902.S	Insulation Board Polystyrene (inch) 01. 4-Inch	SY	25.000	25.000
0086	618.0100	Maintenance and Repair of Haul Roads (project) 01. 8999-00-87	EACH	1.000	1.000
0088	619.1000	Mobilization	EACH	1.000	1.000
0090	624.0100	Water	MGAL	94.000	94.000
0092	625.0100	Topsoil	SY	3,200.000	3,200.000
0094	628.1504	Silt Fence	LF	2,200.000	2,200.000
0096	628.1520	Silt Fence Maintenance	LF	2,200.000	2,200.000
0098	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000

Estimate Of Quantities

Line	Item	Item Description	Unit	Total	8999-00-87 Qty
0100	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0102	628.2008	Erosion Mat Urban Class I Type B	SY	2,000.000	2,000.000
0104	628.6505	Soil Stabilizer Type A	ACRE	0.350	0.350
0106	628.7005	Inlet Protection Type A	EACH	29.000	29.000
0108	628.7015	Inlet Protection Type C	EACH	18.000	18.000
0110	628.7560	Tracking Pads	EACH	2.000	2.000
0112	629.0210	Fertilizer Type B	CWT	3.000	3.000
0114	630.0140	Seeding Mixture No. 40	LB	55.000	55.000
0116	630.0200	Seeding Temporary	LB	80.000	80.000
0118	630.0500	Seed Water	MGAL	165.000	165.000
0120	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	14.000	14.000
0122	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	13.000	13.000
0124	634.0818	Posts Tubular Steel 2x2-Inch X 18-FT	EACH	4.000	4.000
0126	637.2210	Signs Type II Reflective H	SF	155.380	155.380
0128	637.2230	Signs Type II Reflective F	SF	103.000	103.000
0130	638.2102	Moving Signs Type II	EACH	1.000	1.000
0132	638.2602	Removing Signs Type II	EACH	74.000	74.000
0134	638.3000	Removing Small Sign Supports	EACH	37.000	37.000
0136	638.4000	Moving Small Sign Supports	EACH	1.000	1.000
0138	642.5001	Field Office Type B	EACH	1.000	1.000
0140	643.0410	Traffic Control Barricades Type II	DAY	330.000	330.000
0142	643.0420	Traffic Control Barricades Type III	DAY	650.000	650.000
0144	643.0705	Traffic Control Warning Lights Type A	DAY	1,620.000	1,620.000
0146	643.0900	Traffic Control Signs	DAY	10,860.000	10,860.000
0148	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0150	643.5000	Traffic Control	EACH	1.000	1.000
0152	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	5,850.000	5,850.000
0154	646.4020	Marking Line Epoxy 10-Inch	LF	125.000	125.000
0156	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000
0158	646.5120	Marking Word Epoxy	EACH	16.000	16.000
0160	646.6120	Marking Stop Line Epoxy 18-Inch	LF	62.000	62.000
0162	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	480.000	480.000
0164	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	300.000	300.000
0166	646.8120	Marking Curb Epoxy	LF	400.000	400.000
0168	650.4000	Construction Staking Storm Sewer	EACH	17.000	17.000
0170	650.4500	Construction Staking Subgrade	LF	1,790.000	1,790.000
0172	650.5000	Construction Staking Base	LF	3,334.000	3,334.000
0174	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	5,930.000	5,930.000
0176	650.8000	Construction Staking Resurfacing Reference	LF	1,542.000	1,542.000
0178	650.9000	Construction Staking Curb Ramps	EACH	25.000	25.000
0180	650.9500	Construction Staking Sidewalk (project) 01. 8999-00-87	EACH	1.000	1.000
0182	650.9911	Construction Staking Supplemental Control (project) 01. 8999-00-87	EACH	1.000	1.000
0184	650.9920	Construction Staking Slope Stakes	LF	3,334.000	3,334.000
0186	690.0150	Sawing Asphalt	LF	1,070.000	1,070.000
0188	690.0250	Sawing Concrete	LF	360.000	360.000
0190	740.0440	Incentive IRI Ride	DOL	1,262.880	1,262.880
0192	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	800.000	800.000
0194	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
0196	SPV.0060	Special 01. Adjust Frame & Ring Casting	EACH	12.000	12.000

Estimate Of Quantities

					8999-00-87
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**
0198	SPV.0060	Special 02. Salvaged and Install Hydrant and Valve Box	EACH	2.000	2.000
0200	SPV.0060	Special 03. Remove Gate Valve & Box	EACH	4.000	4.000
0202	SPV.0060	Special 04. Connect To Existing Water Main	EACH	2.000	2.000
0204	SPV.0060	Special 05. 45° Bend 8-Inch	EACH	4.000	4.000
0206	SPV.0060	Special 06. Gate Valve 8-Inch	EACH	4.000	4.000
0208	SPV.0060	Special 07. Tee 8-Inch x 6-Inch	EACH	3.000	3.000
0210	SPV.0060	Special 08. Hydrant	EACH	1.000	1.000
0212	SPV.0060	Special 09. Gate Valve 6-Inch	EACH	1.000	1.000
0214	SPV.0060	Special 10. Curb Stop 1-Inch	EACH	33.000	33.000
0216	SPV.0060	Special 11. Corp Stop 1-Inch	EACH	33.000	33.000
0218	SPV.0060	Special 12. Watermain Testing	EACH	1.000	1.000
0220	SPV.0060	Special 13. Temporary Water	EACH	1.000	1.000
0222	SPV.0060	Special 14. Adjusting Water Valve	EACH	12.000	12.000
0224	SPV.0060	Special 15. Connect To Existing Storm Sewer	EACH	15.000	15.000
0226	SPV.0060	Special 16. Remove, Salvage, and Reinstall Modular Block Retaining Wall	EACH	3.000	3.000
0228	SPV.0060	Special 17. Street Name Sign	EACH	20.000	20.000
0230	SPV.0090	Special 01. Remove Watermain	LF	1,321.000	1,321.000
0232	SPV.0090	Special 02. Remove Water Service	LF	783.000	783.000
0234	SPV.0090	Special 03. Ductile Iron Water Main 8-Inch	LF	1,299.000	1,299.000
0236	SPV.0090	Special 04. Ductile Iron Water Main 6-Inch	LF	44.000	44.000
0238	SPV.0090	Special 05. Copper Pipe 1-Inch	LF	783.000	783.000
0240	SPV.0090	Special 06. Concrete Valley Gutter	LF	96.000	96.000
0242	SPV.0180	Special 01. Hydromulch	SY	1,300.000	1,300.000
0244	SPV.0195	Special 01. Pulverized Base	TON	4,810.000	4,810.000
0246	SPV.0195	Special 02. Pulverized Base	TON	1,205.000	1,205.000

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REMOVE, SALVAGE, AND REINSTALL MODULAR BLOCK RETAINING WALL

CATEGORY	STATION	LOCATION	SPV.0060.16 SPECIAL (16. REMOVE, SALVAGE, AND REINSTALL MODULAR BLOCK RETAINING WALL) EACH
0010	14+54	RT	1
0010	25+84	LT	1
0010	33+89	LT	1
		TOTAL 0010	3

REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY
0010	3+20	-	14+86	LT & RT	100	1,610	15
0010	14+86	-	28+00	LT & RT	40	2,610	33
0010	28+00	-	36+54	LT & RT	10	1,400	32
				TOTAL 0010	150	5,620	80

CLEARING & GRUBBING

CATEGORY	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
0010	16+00	-	17+00	LT	1	1
0010	20+00	-	21+00	LT	1	1
0010	22+00	-	24+00	LT & RT	2	2
0010	25+00	-	28+00	LT & RT	3	3
0010	35+00	-	36+00	LT	1	1
				TOTAL 0010	8	8

EXCAVATION COMMON

CATEGORY	STATION	TO	STATION	LOCATION	205.0100 EXCAVATION COMMON CY	SALVAGED / UNUSABLE MATERIAL (2) CY	AVAILABLE MATERIAL (3) CY	UNEXPANDED FILL CY	EXPANDED FILL (4) CY	* MASS ORDINATE +/- (5) CY	BORROW CY
0010	3+20	-	36+54	PROJECT	5,471	1,803	3,668	64	80	3,588	--
				TOTAL 0010	5,471						
0020	3+20	-	36+54	PROJECT	80	0	80	0	0	80	--
				TOTAL 0020	80						
				PROJECT TOTAL	5,551					3,668	

(1) COMMON EXCAVATION = SALVAGED/UNUSEABLE PAVEMENT MATERIAL
(2) SALVAGED/UNUSEABLE PAVEMENT MATERIAL
(3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSEABLE PAVEMENT MATERIAL
(4) EXPANDED FILL FACTOR = 1.25
(5) THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
*INCLUDED FOR INFORMATION PURPOSES ONLY

STORM SEWER REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF
0010	14+65	-		LT	--	1	--
0010	14+65	-	14+90	LT	--	--	27
0010	14+90	-		LT	1	--	--
0010	14+90	-	15+08	LT	--	--	21
0010	15+08	-		LT	--	1	--
0010	18+37	-		LT	--	1	--
0010	18+37	-	18+62	LT	--	--	37
0010	18+62	-		LT	1	--	--
0010	18+62	-	18+81	LT	--	--	35
0010	18+81	-		LT	1	--	--
0010	18+81	-	18+83	LT	--	--	3
0010	18+81	-	18+88	LT	--	--	7
0010	18+88	-		LT	--	1	--
0010	22+11	-		LT	1	--	--
0010	22+11	-	22+14	LT	--	--	20
0010	22+14	-		LT	--	1	--
0010	27+80	-		LT	--	1	--
0010	27+80	-	28+11	LT	--	--	41
0010	28+11	-		LT	1	--	--
0010	28+11	-	28+23	LT	--	--	29
0010	28+11	-	28+33	RT	--	--	27
0010	28+23	-		LT	--	1	--
0010	28+33	-		RT	--	1	--
0010	36+33	-		LT	--	1	--
				TOTAL 0010	5	9	247

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BASE AGGREGATE DENSE

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	SPV.0195.01 SPECIAL (01. PULVERIZED BASE) TON	REMARKS
0010	3+20	-	10+10	MAINLINE	--	--	7.8	510	
0010	10+10	-	28+00	MAINLINE	--	--	51.0	3,430	
0010	28+00	-	36+54	MAINLINE	--	--	9.6	640	
0010				GRAVEL DRIVEWAYS	--	33	0.5	--	
0010				ASPHALT DRIVEWAYS	--	75	1.1	--	
0010				CONCRETE DRIVEWAYS	--	55	0.8	--	
0010				CONCRETE APRONS	--	37	0.6	--	
0010				UNDISTRIBUTED	20	20	3.6	230	
				TOTAL 0010	20	220	75.0	4,810	
0020	3+20	-	5+56	LT	--	--	1.5	90	PATH AND SIDEWALK
0020	5+94	-	11+22	LT	--	--	3.1	200	PATH AND SIDEWALK
0020	10+98	-	11+05	RT	--	--	0.1	4	PATH AND SIDEWALK
0020	11+59	-	14+68	LT	--	--	1.9	120	PATH AND SIDEWALK
0020	14+52	-	14+67	RT	--	--	0.1	5	PATH AND SIDEWALK
0020	15+05	-	18+41	LT	--	--	2.0	130	PATH AND SIDEWALK
0020	15+05	-	15+20	RT	--	--	0.1	6	PATH AND SIDEWALK
0020	18+84	-	27+79	LT	--	--	5.2	340	PATH AND SIDEWALK
0020	21+03	-	21+38	RT	--	--	0.2	10	PATH AND SIDEWALK
0020	28+22	-	32+52	LT	--	--	2.5	160	PATH AND SIDEWALK
0020	32+90	-	36+31	LT	--	--	2.1	130	PATH AND SIDEWALK
0020	36+24	-	36+50	RT	--	--	0.2	10	PATH AND SIDEWALK
				TOTAL 0020	0	0	19.0	1,205	
				PROJECT TOTAL	20	220	94.0	6,015	

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HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5245 HMA PAVEMENT 5 LT 58-34 S TON	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6445 HMA PAVEMENT 5 MT 58-34 H TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	3+20	-	36+54	LT & RT	670	--	1,620	1,080	--
0010			DRIVEWAYS		--	--	--	--	40
				TOTAL 0010	670	0	1,620	1,080	40
0020	4+59		5+37	PATH	--	20	--	--	--
0020	6+14		10+93	PATH	--	70	--	--	--
0020	11+80		14+43	PATH	--	40	--	--	--
0020	15+34		18+22	PATH	--	50	--	--	--
0020	19+03		21+27	PATH	--	40	--	--	--
0020	21+43		27+44	PATH	--	100	--	--	--
0020	28+53		32+27	PATH	--	60	--	--	--
0020	33+15		36+20	PATH	--	50	--	--	--
				TOTAL 0020	0	430	0	0	0
				PROJECT TOTAL	670	430	1,620	1,080	40

CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	SPV.0090.06 SPECIAL (06. CONCRETE VALLEY GUTTER) LF
0010	3+20	-	5+59	LT	--	266	--	--
0010	3+20	-	3+39	LT	20	--	--	--
0010	3+69	-	4+08	LT	--	39	--	--
0010	3+80	-	4+30	RT	--	50	--	--
0010	3+90	-	3+95	RT	--	14	--	--
0010	4+22	-	4+28	RT	--	14	--	--
0010	4+91	-	5+11	RT	--	20	--	--
0010	5+47	-	5+77	RT	--	30	--	--
0010	5+51	-	5+99	LT	--	--	--	48
0010	5+91	-	11+24	LT	--	596	--	--
0010	6+17	-	6+27	RT	--	10	--	--
0010	7+06	-	7+79	RT	--	73	--	--
0010	10+96	-	11+11	RT	--	15	--	--
0010	11+56	-	14+70	LT	--	376	--	--
0010	11+58	-	12+75	RT	--	117	--	--
0010	11+63	-	11+68	RT	--	8	--	--
0010	11+91	-	11+96	RT	--	8	--	--
0010	12+31	-	12+36	RT	--	8	--	--
0010	12+65	-	12+70	RT	--	8	--	--
0010	14+49	-	14+70	RT	--	32	--	--
0010	14+58	-	14+64	LT	--	--	10	--
0010	14+58	-	14+66	RT	--	--	13	--
0010	15+02	-	18+44	LT	--	388	--	--
0010	15+02	-	16+21	RT	--	140	--	--
0010	15+07	-	15+14	RT	--	--	13	--
0010	16+48	-	20+77	RT	--	462	--	--
0010	18+81	-	27+85	LT	--	944	--	--
0010	21+00	-	27+84	RT	--	708	--	--
0010	21+03	-	21+38	RT	--	--	45	--
0010	28+17	-	32+55	LT	--	477	--	--
0010	28+17	-	29+75	RT	--	175	--	--
0010	28+23	-	28+43	LT	--	--	20	--
0010	31+92	-	32+10	RT	--	19	--	--
0010	32+47	-	32+95	LT	--	--	--	48
0010	32+87	-	36+51	LT	--	421	--	--
0010	32+99	-	33+72	RT	--	73	--	--
0010	34+43	-	36+53	RT	--	222	--	--
				TOTAL 0010	20	5,713	101	96

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3

CONCRETE SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	REMARKS
0020	3+20	-	3+39	LT	100	--	--	--	
0020	3+39	-	3+69	LT	--	150	--	--	
0020	3+69	-	4+33	LT	570	--	--	--	
0020	4+33	-	4+59	LT	--	205	--	--	
0020	5+37	-	5+56	LT	150	--	16	--	COLONIAL DRIVE
0020	5+94	-	6+14	LT	150	--	16	--	COLONIAL DRIVE
0020	9+80	-	10+00	LT	--	160	--	--	
0020	10+93	-	11+22	LT	250	--	26	--	GREEN STREET
0020	10+99	-	11+04	RT	70	--	10	--	GREEN STREET
0020	11+59	-	11+80	LT	160	--	16	--	GREEN STREET
0020	12+95	-	13+07	LT	--	95	--	--	
0020	14+43	-	14+68	LT	210	--	26	--	SUMMER STREET
0020	14+53	-	14+67	RT	100	--	20	--	SUMMER STREET
0020	15+05	-	15+34	LT	250	--	26	--	SUMMER STREET
0020	15+05	-	15+19	RT	100	--	20	--	SUMMER STREET
0020	15+39	-	15+43	LT	35	--	--	--	
0020	16+04	-	16+08	LT	30	--	--	--	
0020	17+16	-	17+19	LT	15	--	--	--	
0020	18+09	-	18+14	LT	25	--	--	--	
0020	18+22	-	18+41	LT	150	--	16	--	GIRARD STREET
0020	18+72	-	18+76	RT	2	--	--	--	
0020	18+84	-	19+03	LT	150	--	16	--	GIRARD STREET
0020	19+38	-	19+41	LT	20	--	--	--	
0020	19+68	-	19+78	LT	--	80	--	--	
0020	21+03	-	21+37	RT	200	--	20	--	MORRISON STREET
0020	21+27	-	21+43	LT	155	--	10	--	MORRISON STREET
0020	21+45	-	21+49	RT	20	--	--	--	
0020	22+33	-	22+37	LT	20	--	--	--	
0020	22+93	-	22+98	LT	20	--	--	--	
0020	23+80	-	23+82	LT	10	--	--	--	
0020	24+09	-	24+12	RT	15	--	--	--	
0020	24+65	-	24+70	RT	2	--	--	--	
0020	25+21	-	25+24	RT	4	--	--	--	
0020	27+44	-	27+79	LT	250	--	--	25.70	LAUREL AVENUE
0020	28+24	-	28+53	LT	210	--	--	25.70	LAUREL AVENUE
0020	32+04	-	32+09	RT	3	--	--	--	
0020	32+27	-	32+52	LT	190	--	--	20.56	KINNICKINNIC STREET
0020	32+90	-	33+15	LT	190	--	--	20.56	KINNICKINNIC STREET
0020	33+90	-	33+93	LT	24	--	--	--	
0020	36+20	-	36+30	LT	110	--	10	--	WISCONSIN STREET
0020	36+25	-	36+50	RT	220	--	10	--	WISCONSIN STREET
				TOTAL 0020	4,180	690	258	92.52	

CONCRETE DRIVEWAY

CATEGORY	STATION	TO	STATION	LOCATION	602.0810 CONCRETE DRIVEWAY 6-INCH SY	602.0815 CONCRETE DRIVEWAY 7-INCH SY
0010	3+90	-	4+28	RT	--	35
0010	4+15	-	4+59	LT	45	--
0010	4+33	-	4+59	LT	16	--
0010	5+52	-	5+68	RT	8	--
0010	7+32	-	7+78	LT	24	--
0010	7+86	-	8+22	LT	18	--
0010	8+80	-	9+12	LT	17	--
0010	9+25	-	9+52	LT	14	--
0010	9+77	-	10+03	LT	24	--
0010	11+16	-	11+22	LT	9	--
0010	11+62	-	11+97	RT	--	16
0010	12+31	-	12+70	RT	--	19
0010	12+92	-	13+10	LT	19	--
0010	13+13	-	13+38	LT	13	--
0010	13+86	-	14+07	LT	10	--
0010	16+38	-	16+55	LT	9	--
0010	16+97	-	17+13	LT	8	--
0010	19+65	-	19+81	LT	13	--
0010	20+31	-	20+56	LT	13	--
0010	21+03	-	21+24	LT	10	--
0010	21+54	-	21+72	LT	9	--
0010	22+56	-	22+73	LT	8	--
0010	23+21	-	23+40	LT	6	--
0010	23+39	-	23+64	RT	13	--
0010	24+31	-	24+58	RT	14	--
0010	24+79	-	25+13	LT	11	--
0010	25+62	-	25+86	LT	8	--
0010	26+14	-	26+36	RT	11	--
0010	26+32	-	26+50	LT	5	--
0010	26+53	-	26+70	LT	5	--
0010	28+86	-	29+03	RT	8	--
0010	31+22	-	31+51	LT	9	--
0010	31+24	-	31+29	LT	3	--
0010	34+38	-	34+55	LT	5	--
				TOTAL 0010	385	70

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STORM SEWER PIPE

CATEGORY	STRUCTURE	TO	STRUCTURE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
0010	1.1	-	1.2	--	--	28
0010	1.2	-	1.3	--	--	22
0010	1.4	-	1.5	--	--	40
0010	1.5	-	1.7	--	--	39
0010	1.7	-	1.6	22	--	--
0010	2.1	-	2.2	16	--	--
0010	2.3	-	2.4	9	--	--
0010	3.1	-	3.2	--	--	42
0010	3.2	-	3.3	--	--	29
0010	3.2	-	3.4	--	--	25
0010	4.1	-	4.2	--	20	--
			TOTAL 0010	47	20	225

NOTE: PIPE LENGTHS ARE CENTER OF STRUCTURE TO CENTER OF STRUCTURE

STORM SEWER ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	612.0902.S.01 INSULATION BOARD POLYSTYRENE (INCH) (01. 4-INCH) SY
0010	3+20	-	36+54	PROJECT	6	5	25
				TOTAL 0010	6	5	25

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STORM SEWER STRUCTURES

CATEGORY	STRUCTURE	STATION	OFFSET	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	SPV.0060.15 SPECIAL (15. CONNECT TO EXISTING STORM SEWER) EACH
0010	1.1	14+62	15.2 LT	--	1	--	--	--	--	1	--
0010	1.2	14+90	17.0 LT	1	--	--	--	1	--	--	3
0010	1.3	15+04	33.7 LT	--	1	--	--	--	--	1	--
0010	1.4	18+42	34.9 LT	--	1	--	--	--	--	1	--
0010	1.5	18+62	0.5 LT	1	--	--	--	1	--	--	3
0010	1.6	18+92	13.7 LT	--	1	--	--	--	--	1	--
0010	1.7	18+82	34.0 LT	--	1	--	--	--	1	--	1
0010	2.1	21+09	2.6 LT	1	--	1	--	--	--	--	2
0010	2.2	21+09	13.6 RT	--	1	--	--	--	--	1	--
0010	2.3	22+12	12.5 LT	--	1	--	--	--	--	1	--
0010	2.4	22+11	3.4 LT	1	--	1	--	--	--	--	2
0010	3.1	27+83	32.2 LT	--	1	--	--	--	--	1	--
0010	3.2	28+11	1.3 LT	1	--	--	1	--	--	--	2
0010	3.3	28+20	28.4 LT	--	1	--	--	--	--	1	--
0010	3.4	28+27	18.4 RT	--	1	--	--	--	--	1	--
0010	4.1	36+19	12.5 LT	--	1	--	--	--	--	1	--
0010	4.2	36+33	27.0 LT	1	--	1	--	--	--	--	2
			TOTAL 0010	6	11	3	1	2	1	10	15

NOTE: STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

RESTORATION ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.6505 SOIL STABILIZER TYPE A ACRE	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	SPV.0180.01 SPECIAL (01. HYDROMULCH) SY
0010	3+80	-	36+40	PROJECT	2,900	1,770	0.23	2	51	77	162	1,090
0010				UNDISTRIBUTED	300	230	0.12	1	4	3	3	210
				TOTAL 0010	3,200	2,000	0.35	3	55	80	165	1,300

EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7560 TRACKING PADS EACH
0010	3+20	-	36+54	PROJECT	2,000	2,000	6	3	27	16	--
0010				UNDISTRIBUTED	200	200	--	--	2	2	2
				TOTAL 0010	2,200	2,200	6	3	29	18	2

TRAFFIC CONTROL

CATEGORY	LOCATION	DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	* 643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
0010	PROJECT	7	--	--	--	--	36
0010	ADVANCED WARNING	162	330	650	1,620	3,730	--
0010	DETOUR	162	--	--	--	7,130	--
	TOTAL 0010		330	650	1,620	10,860	36

*G20-57 SIGNS TO BE PLACED AT PROJECT TERMINI 7 DAYS PRIOR TO CONSTRUCTION AND REMOVED WHEN CONSTRUCTION BEGINS

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PERMANENT SIGNING

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE (IN) W	X H	LOCATION	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	634.0818 POSTS TUBULAR STEEL 2X2-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.17 SPECIAL (17. STREET NAME SIGN) EACH
0010	1-01	R5-2	24	24	RT	1	--	--	4.00	--	--
0010	1-02	R3-8LAR	36	30	LT	1	--	--	7.50	--	--
0010	1-03	R1-1	30	30	LT	1	--	--	5.18	--	--
0010	1-04	--	--	--	LT	--	--	--	--	--	1
0010	1-05	--	--	--	LT	--	--	--	--	--	1
0010	1-06	R2-1	24	30	RT	1	--	--	5.00	--	--
0010	1-07	W11-2	30	30	LT	--	1	--	--	6.25	--
0010	1-08	S16-7R	24	12	LT	--	--	--	--	2.00	--
0010	1-09	W11-2	30	30	LT	--	--	--	--	6.25	--
0010	1-10	S16-7L	24	12	LT	--	--	--	--	2.00	--
0010	1-11	W11-2	30	30	RT	--	1	--	--	6.25	--
0010	1-12	S16-7L	24	12	RT	--	--	--	--	2.00	--
0010	1-13	W11-2	30	30	RT	--	--	--	--	6.25	--
0010	1-14	S16-7R	24	12	RT	--	--	--	--	2.00	--
0010	1-15	--	--	--	LT	--	--	--	--	--	1
0010	1-16	--	--	--	LT	--	--	--	--	--	1
0010	1-17	R1-1	30	30	LT	1	--	--	5.18	--	--
0010	2-01	S5-2	24	30	LT	1	--	--	5.00	--	--
0010	2-02	S1-1	36	36	RT	--	--	1	--	6.75	--
0010	2-03	S16-9P	24	12	RT	--	--	--	--	2.00	--
0010	2-04	R2-6P	24	18	RT	--	--	--	3.00	--	--
0010	2-05	R1-1	36	36	RT	--	1	--	7.46	--	--
0010	2-06	R1-3P	24	9	RT	--	--	--	1.50	--	--
0010	2-07	--	--	--	LT	--	--	--	--	--	1
0010	2-08	--	--	--	LT	--	--	--	--	--	1
0010	2-09	R1-1	30	30	LT	--	1	--	5.18	--	--
0010	2-10	R1-3P	18	6	LT	--	--	--	0.75	--	--
0010	2-11	R1-1	30	30	RT	--	1	--	5.18	--	--
0010	2-12	R1-3P	18	6	RT	--	--	--	0.75	--	--
0010	2-13	R1-1	36	36	LT	--	1	--	7.46	--	--
0010	2-14	R1-3P	24	9	LT	--	--	--	1.50	--	--
0010	2-15	S1-1	36	36	LT	--	--	1	--	6.75	--
0010	2-16	S16-9P	24	12	LT	--	--	--	--	2.00	--
0010	2-17	R2-6P	24	18	LT	--	--	--	3.00	--	--
0010	2-18	--	--	--	RT	--	--	--	--	--	1
0010	2-19	--	--	--	RT	--	--	--	--	--	1
0010	2-20	R1-1	30	30	RT	1	--	--	5.18	--	--
0010	2-21	S5-2	24	30	RT	1	--	--	5.00	--	--
0010	2-22	--	--	--	LT	--	--	--	--	--	1
0010	2-23	--	--	--	LT	--	--	--	--	--	1

(CONTINUED ON NEXT SHEET)

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PERMANENT SIGNING (CONTINUED)

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE (IN) W	X H	LOCATION	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	634.0818 POSTS TUBULAR STEEL 2X2-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	SPV.0060.17 SPECIAL (17. STREET NAME SIGN) EACH
0010	2-24	R1-1	30	30	LT	1	--	--	5.18	--	--
0010	2-25	--	--	--	RT	--	--	--	--	--	1
0010	2-26	--	--	--	RT	--	--	--	--	--	1
0010	2-27	R1-1	30	30	RT	1	--	--	5.18	--	--
0010	2-28	W11-2	30	30	LT	--	1	--	--	6.25	--
0010	2-29	S16-7R	24	12	LT	--	--	--	--	2.00	--
0010	2-30	W11-2	30	30	LT	--	--	--	--	6.25	--
0010	2-31	S16-7L	24	12	LT	--	--	--	--	2.00	--
0010	2-32	W11-2	30	30	RT	--	1	--	--	6.25	--
0010	2-33	S16-7L	24	12	RT	--	--	--	--	2.00	--
0010	2-34	W11-2	30	30	RT	--	--	--	--	6.25	--
0010	2-35	S16-7R	24	12	RT	--	--	--	--	2.00	--
0010	3-01	S1-1	36	36	RT	--	--	1	--	6.75	--
0010	3-02	S16-9P	24	12	RT	--	--	--	--	2.00	--
0010	3-03	R2-6P	24	18	RT	--	--	--	3.00	--	--
0010	3-04	S5-2	24	30	RT	1	--	--	5.00	--	--
0010	3-05	R1-1	36	36	RT	--	1	--	7.46	--	--
0010	3-06	R1-3P	24	9	RT	--	--	--	1.50	--	--
0010	3-07	STREET NAME	--	--	LT	--	--	--	--	--	1
0010	3-08	STREET NAME	--	--	LT	--	--	--	--	--	1
0010	3-09	R1-1	36	36	LT	--	1	--	7.46	--	--
0010	3-10	R1-3P	24	9	LT	--	--	--	1.50	--	--
0010	3-11	STREET NAME	--	--	RT	--	--	--	--	--	1
0010	3-12	STREET NAME	--	--	RT	--	--	--	--	--	1
0010	3-13	R1-1	36	36	RT	--	1	--	7.46	--	--
0010	3-14	R1-3P	24	9	RT	--	--	--	1.50	--	--
0010	3-15	R1-1	36	36	LT	--	1	--	7.46	--	--
0010	3-16	R1-3P	24	9	LT	--	--	--	1.50	--	--
0010	3-17	S5-2	24	30	RT	1	--	--	5.00	--	--
0010	3-18	S1-1	36	36	LT	--	--	1	--	6.75	--
0010	3-19	S16-9P	24	12	LT	--	--	--	--	2.00	--
0010	3-20	R2-6P	24	18	LT	--	--	--	3.00	--	--
0010	3-21	STREET NAME	--	--	LT	--	--	--	--	--	1
0010	3-22	STREET NAME	--	--	LT	--	--	--	--	--	1
0010	3-23	R1-1	30	30	LT	1	--	--	5.18	--	--
0010	3-24	R2-1	24	30	LT	1	--	--	5.00	--	--
0010	3-25	STREET NAME	--	--	RT	--	--	--	--	--	1
0010	3-26	STREET NAME	--	--	RT	--	--	--	--	--	1
0010	3-27	R1-1	30	30	RT	--	1	--	5.18	--	--
0010	3-28	W4-4P	24	12	RT	--	--	--	--	2.00	--
					TOTAL 0010	14	13	4	155.38	103.00	20

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EXISTING SIGNING

CATEGORY	STATION	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH
0010	5+00	LT	--	1	1	--
0010	5+55	LT	--	1	1	--
0010	6+02	LT	--	2	1	--
0010	6+20	RT	--	1	1	--
0010	7+75	RT	--	2	1	--
0010	11+10	RT	--	2	1	--
0010	11+18	LT	--	2	1	--
0010	11+20	LT	--	1	1	--
0010	13+18	RT	--	2	1	--
0010	14+53	RT	--	2	1	--
0010	14+58	LT	--	3	1	--
0010	14+64	LT	--	2	1	--
0010	15+06	RT	--	2	1	--
0010	15+20	LT	--	2	1	--
0010	15+23	RT	--	2	1	--
0010	16+53	RT	--	1	1	--
0010	16+58	RT	--	2	1	--
0010	18+39	LT	--	3	1	--
0010	18+66	RT	--	2	1	--
0010	18+94	LT	--	2	1	--
0010	19+70	RT	--	2	1	--
0010	20+70	RT	--	4	1	--
0010	21+05	RT	--	1	1	--
0010	21+20	RT	--	2	1	--
0010	21+31	LT	--	2	1	--
0010	24+28	RT	--	2	1	--
0010	27+69	RT	--	2	1	--
0010	27+75	LT	--	2	1	--
0010	27+80	LT	--	2	1	--
0010	28+21	RT	--	2	1	--
0010	28+24	RT	1	--	--	1
0010	28+28	RT	--	2	1	--
0010	28+32	LT	--	2	1	--
0010	30+40	LT	--	1	1	--
0010	31+36	RT	--	2	1	--
0010	32+50	LT	--	3	1	--
0010	35+31	RT	--	2	1	--
0010	36+33	RT	--	4	1	--
		TOTAL 0010	1	74	37	1

SAWING

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010	3+20	-	3+21	MAINLINE	40	--	BOP
0010	3+20	-	4+07	LT	92	--	COMMERCIAL ENTRANCE
0010	3+95	-	4+23	RT	30	--	COMMERCIAL ENTRANCE
0010	4+15	-	4+59	LT	--	42	COMMERCIAL ENTRANCE
0010	5+59	-	5+91	LT	33	--	COLONIAL DR
0010	5+55	-	5+65	RT	--	10	PRIVATE ENTRANCE
0010	7+22	-	7+45	RT	23	--	PRIVATE ENTRANCE
0010	7+33	-	7+75	LT	42	--	PRIVATE ENTRANCE
0010	7+89	-	8+20	LT	31	--	PRIVATE ENTRANCE
0010	9+80	-	10+00	LT	--	20	PRIVATE ENTRANCE
0010	11+16	-	11+16	LT	--	10	PRIVATE ENTRANCE
0010	11+24	-	11+56	LT	32	--	GREEN ST
0010	11+68	-	11+91	RT	24	--	COMMERCIAL ENTRANCE
0010	12+36	-	12+65	RT	28	--	COMMERCIAL ENTRANCE
0010	12+95	-	13+07	LT	--	12	PRIVATE ENTRANCE
0010	13+16	-	13+35	LT	19	--	PRIVATE ENTRANCE
0010	13+89	-	13+98	LT	10	--	PRIVATE ENTRANCE
0010	14+70	-	15+02	LT	32	--	SUMMER ST
0010	14+70	-	15+02	RT	32	--	SUMMER ST
0010	16+21	-	16+48	RT	26	--	BEALL ST
0010	17+00	-	17+10	LT	10	--	PRIVATE ENTRANCE
0010	17+13	-	17+23	RT	10	--	PRIVATE ENTRANCE
0010	18+37	-	18+55	RT	18	--	PRIVATE ENTRANCE
0010	18+44	-	18+81	LT	37	--	GIRARD ST
0010	19+09	-	19+18	RT	9	--	PRIVATE ENTRANCE
0010	19+68	-	19+78	LT	--	10	PRIVATE ENTRANCE
0010	20+34	-	20+53	LT	19	--	PRIVATE ENTRANCE
0010	20+52	-	20+68	RT	18	--	PRIVATE ENTRANCE
0010	20+76	-	21+00	RT	24	--	MORRISON ST
0010	21+06	-	21+21	LT	15	--	PRIVATE ENTRANCE
0010	21+57	-	21+69	LT	12	--	PRIVATE ENTRANCE
0010	22+23	-	22+34	RT	10	--	PRIVATE ENTRANCE
0010	22+59	-	22+70	LT	11	--	PRIVATE ENTRANCE
0010	22+81	-	22+93	RT	12	--	PRIVATE ENTRANCE
0010	23+42	-	23+62	RT	--	20	PRIVATE ENTRANCE
0010	23+66	-	23+78	RT	12	--	PRIVATE ENTRANCE
0010	24+34	-	24+55	RT	--	21	PRIVATE ENTRANCE
0010	25+41	-	25+51	RT	11	--	PRIVATE ENTRANCE
0010	25+65	-	25+83	LT	19	--	PRIVATE ENTRANCE
0010	25+91	-	26+12	RT	21	--	PRIVATE ENTRANCE
0010	26+16	-	26+33	RT	--	17	PRIVATE ENTRANCE
0010	26+99	-	27+10	RT	10	--	PRIVATE ENTRANCE
0010	27+84	-	28+17	RT	32	--	LAUREL AVE
0010	27+85	-	28+17	LT	32	--	LAUREL AVE
0010	28+89	-	29+00	RT	--	10	PRIVATE ENTRANCE
0010	29+52	-	29+69	RT	17	--	PRIVATE ENTRANCE
0010	31+24	-	31+29	LT	--	5	PRIVATE ENTRANCE
0010	31+29	-	31+48	LT	19	--	PRIVATE ENTRANCE
0010	32+55	-	32+87	LT	32	--	KINNICKINNIC ST
0010	33+10	-	33+29	RT	18	--	PRIVATE ENTRANCE
0010	34+40	-	34+51	LT	11	--	PRIVATE ENTRANCE
0010	35+02	-	35+20	RT	18	--	PRIVATE ENTRANCE
0010	35+37	-	35+59	RT	22	--	PRIVATE ENTRANCE
0010	36+51	-	36+55	MAINLINE	100	--	EOP
0010			SIDEWALK		--	75	
0010			CURB AND GUTTER		--	108	
				TOTAL 0010	1,070	360	

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PAVEMENT MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH LF	646.4020 MARKING LINE EPOXY 10-INCH LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8120 MARKING CURB EPOXY LF
0010	3+20	-	36+54	PROJECT	5,650	114	4	16	62	460	290	300
0010				UNDISTRIBUTED	200	11	--	--	--	20	10	100
				TOTAL 0010	5,850	125	4	16	62	480	300	400

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	650.9500.01 CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 8999-00-87) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 8999-00-87) EACH
0010	3+20	-	36+54	LT & RT	17	--	3,334	5,930	--	--	3,334	--	1
0010	3+20	-	10+10	LT & RT	--	--	--	--	690	--	--	--	--
0010	10+10	-	28+00	LT & RT	--	1,790	--	--	--	--	--	--	--
0010	28+00	-	36+52	LT & RT	--	--	--	--	852	--	--	--	--
				TOTAL 0010	17	1,790	3,334	5,930	1,542	0	3,334	0	1
0020	3+20	-	36+52	LT & RT	--	--	--	--	--	25	--	1	--
				TOTAL 0020	0	0	0	0	0	25	0	1	0
				PROJECT TOTAL	17	1,790	3,334	5,930	1,542	25	3,334	1	1

SANITARY SEWER AND WATERMAIN

STATION	LOCATION	SPV.0060.02 SALVAGED AND INSTALL HYDRANT AND VALVE BOX EACH	SPV.0060.03 REMOVE GATE VALVE & BOX EACH	SPV.0090.01 REMOVE WATERMAIN LF	SPV.0090.02 REMOVE WATER SERVICE LF
14+98 - 27+88	11TH	-	-	1,292	-
15+12	12' LT	-	1		-
15+24	12' LT	1	-	-	-
15+24	29' LT	-	-	15	-
15+34	12' LT	-	-	-	19
15+90	19' LT	-	-	-	11
16+01	19' LT	-	-	-	34
16+49	18' LT	-	-	-	11
17+41	17' LT	-	-	-	39
17+43	17' LT	-	-	-	12
18+00	18' LT	-	-	-	11
18+13	18' LT	-	-	-	38
18+77	18' LT	-	-	-	34
19+09	18' LT	-	-	-	14
19+43	18' LT	-	-	-	37
20+06	18' LT	-	-	-	36
20+18	18' LT	-	-	-	10
20+31	18' LT	-	-	-	11
21+37	16' LT	-	-	-	14
21+39	16' LT	-	-	-	33
21+78	16' LT	-	-	-	22
21+99	16' LT	-	-	-	33
22+06	16' LT	-	1	-	-
22+09	16' LT	1	-	-	-
22+11	16' LT	-	1	-	-
22+11	30' LT	-	-	14	-
22+18	16' LT	-	-	-	14
22+49	16' LT	-	-	-	32
22+57	16' LT	-	-	-	14
22+82	15' LT	-	-	-	14
23+18	15' LT	-	-	-	30
23+98	13' LT	-	-	-	32
24+08	14' LT	-	-	-	21
24+80	15' LT	-	-	-	35
25+02	13' LT	-	-	-	31
25+28	14' LT	-	-	-	14
25+63	14' LT	-	-	-	31
25+81	13' LT	-	-	-	15
26+37	13' LT	-	-	-	30
26+86	12' LT	-	-	-	15
27+52	11' LT	-	-	-	36
27+88	12' LT	-	1	-	-
TOTAL 0040		2	4	1,321	783

STATION	LOCATION	SPV.0060.01 ADJUST FRAME & RING CASTING EACH
5+35	1' LT	1
8+88	1' LT	1
11+08	1' LT	1
12+83	1' LT	1
14+86	2' LT	1
16+48	4' LT	1
20+48	8' LT	1
24+03	4' LT	1
28+02	3' RT	1
30+53	1' RT	1
32+72	1' LT	1
34+67	4' LT	1
TOTAL 0040		12

STATION	LOCATION	SPV.0060.04 CONNECT TO EXISTING WATER MAIN EACH	SPV.0060.05 45° BEND 8-INCH EACH	SPV.0060.06 GATE VALVE 8-INCH EACH	SPV.0060.07 TEE 8-INCH X 6-INCH EACH	SPV.0060.08 HYDRANT EACH
14+98	13' LT	1	-	-	-	-
14+99	13' LT	-	-	1	-	-
15+01	13' LT	-	1	-	-	-
15+05	16' LT	-	1	-	-	-
15+24	16' LT	-	-	-	1	-
19+00	15' LT	-	-	-	1	-
19+00	30' LT	-	-	-	-	1
22+06	17' LT	-	-	1	-	-
22+09	17' LT	-	-	-	1	-
22+12	17' LT	-	-	1	-	-
27+82	16' LT	-	1	-	-	-
27+86	12' LT	-	1	-	-	-
27+87	12' LT	-	-	1	-	-
27+88	12' LT	1	-	-	-	-
TOTAL 0040		2	4	4	3	1

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STATION	LOCATION	SPV.0060.09 GATE VALVE 6-INCH EACH	SPV.0060.10 CURB STOP 1-INCH EACH	SPV.0060.11 CORP STOP 1-INCH EACH
15+34	16' LT	-	-	1
15+34	31' LT	-	1	-
15+90	16' LT	-	-	1
15+90	29' LT	-	1	-
16+01	16' RT	-	-	1
16+01	16' RT	-	1	-
16+49	29' LT	-	1	-
16+50	16' LT	-	-	1
17+40	16' LT	-	-	1
17+40	16' RT	-	1	-
17+41	16' LT	-	-	1
17+41	29' LT	-	1	-
18+00	16' LT	-	-	1
18+00	29' LT	-	1	-
18+13	16' LT	-	-	1
18+13	16' RT	-	1	-
18+77	15' LT	-	-	1
18+77	16' RT	-	1	-
19+00	27' LT	1	-	-
19+09	15' LT	-	-	1
19+09	29' LT	-	1	-
19+43	15' LT	-	-	1
19+43	16' RT	-	1	-
20+06	16' LT	-	-	1
20+06	16' RT	-	1	-
20+18	16' LT	-	-	1
20+18	29' LT	-	1	-
20+31	16' LT	-	-	1
20+31	29' LT	-	1	-
21+37	17' LT	-	-	1
21+37	29' LT	-	1	-
21+39	17' LT	-	-	1
21+39	16' RT	-	1	-
21+78	17' LT	-	-	1
21+78	29' LT	-	1	-
21+99	17' LT	-	-	1
21+99	16' RT	-	1	-
22+18	17' LT	-	-	1
22+18	29' LT	-	1	-
22+49	17' LT	-	-	1
SUBTOTAL 0040		1	19	20

SANITARY SEWER AND WATERMAIN

STATION	LOCATION	SPV.0060.09 GATE VALVE 6-INCH EACH	SPV.0060.10 CURB STOP 1-INCH EACH	SPV.0060.11 CORP STOP 1-INCH EACH
22+49	15' RT	-	1	-
22+57	17'LT	-	-	1
22+57	29' LT	-	1	-
22+82	17' LT	-	-	1
22+82	29' LT	-	1	-
23+18	16' LT	-	-	1
23+20	15' RT	-	1	-
23+96	16' RT	-	1	-
23+98	16' RT	-	-	1
24+08	16' LT	-	-	1
24+08	27' LT	-	1	-
24+80	16' LT	-	-	1
24+80	16' RT	-	1	-
25+02	16' LT	-	-	1
25+02	16' RT	-	1	-
25+28	16' LT	-	-	1
25+28	27' LT	-	1	-
25+61	15' RT	-	1	-
25+63	16' LT	-	-	1
25+81	16' LT	-	-	1
25+81	28' LT	-	1	-
26+37	16' LT	-	-	1
26+37	16' RT	-	1	-
26+86	16' LT	-	-	1
26+86	27' LT	-	1	-
27+52	16' LT	-	-	1
27+52	16' RT	-	1	-
SUBTOTAL 0040		0	14	13
TOTAL 0040		1	33	33
PROJECT TOTAL 0040		1	33	33

STATION	LOCATION	SPV.0060.12 WATERMAIN TESTING EACH	SPV.0060.13 TEMPORARY WATER EACH	SPV.0060.14 ADJUSTING WATER VALVE EACH
2+32	7' LT	-	-	1
5+78	12' LT	-	-	1
5+82	40' LT	-	-	1
11+52	11' LT	-	-	1
11+55	35' LT	-	-	1
14+81	12' LT	-	-	1
14+92	33' LT	-	-	1
14+96	8' RT	-	-	1
14+98 - 27+88	11TH	1	1	-
28+07	15' RT	-	-	-
28+12	6' RT	-	-	1
32+58	3' RT	-	-	1
32+64	3' RT	-	-	1
35+23	2' LT	-	-	1
TOTAL 0040		1	1	12

STATION	LOCATION	SPV.0090.03 DUCTILE IRON WATER MAIN 8-INCH LF	SPV.0090.04 DUCTILE IRON WATER MAIN 6-INCH LF	SPV.0090.05 COPPER PIPE 1-INCH LF
14+98	13' LT	10	-	-
15+05	16' LT	20	-	-
15+24	16' LT	-	15	-
15+24 - 19+00	16' LT	377	-	-
15+34	16' LT	-	-	16
15+90	16' LT	-	-	13
16+01	16' LT	-	-	31
16+50	16' LT	-	-	14
17+40	16' LT	-	-	37
17+41	16' LT	-	-	13
18+00	16' LT	-	-	13
18+13	16' LT	-	-	36
18+77	15' LT	-	-	31
19+00	15' LT	-	15	-
19+00 - 22+09	15' LT	309		
19+09	15' LT	-	-	17
19+43	15' LT	-	-	34
20+06	16' LT	-	-	33
20+18	16' LT	-	-	13
20+31	16' LT	-	-	13
21+37	17' LT	-	-	12
21+39	17' LT	-	-	33
21+78	17' LT	-	-	22
21+99	17' LT	-	-	34
22+09	17' LT	-	14	-
22+09 - 27+82	17' LT	573	-	-
22+18	17' LT	-	-	13
22+49	17' LT	-	-	33
22+57	17'LT	-	-	12
22+82	17' LT	-	-	12
23+18	16' LT	-	-	33
23+98	16' LT	-	-	34
24+08	16' LT	-	-	19
24+80	16' LT	-	-	36
25+02	16' LT	-	-	32
25+28	16' LT	-	-	11
25+63	16' LT	-	-	33
25+81	16' LT	-	-	13
26+37	16' LT	-	-	34
26+86	16' LT	-	-	12
27+52	16' LT	-	-	41
27+88	12' LT	10	-	-
TOTAL 0040		1,299	44	783

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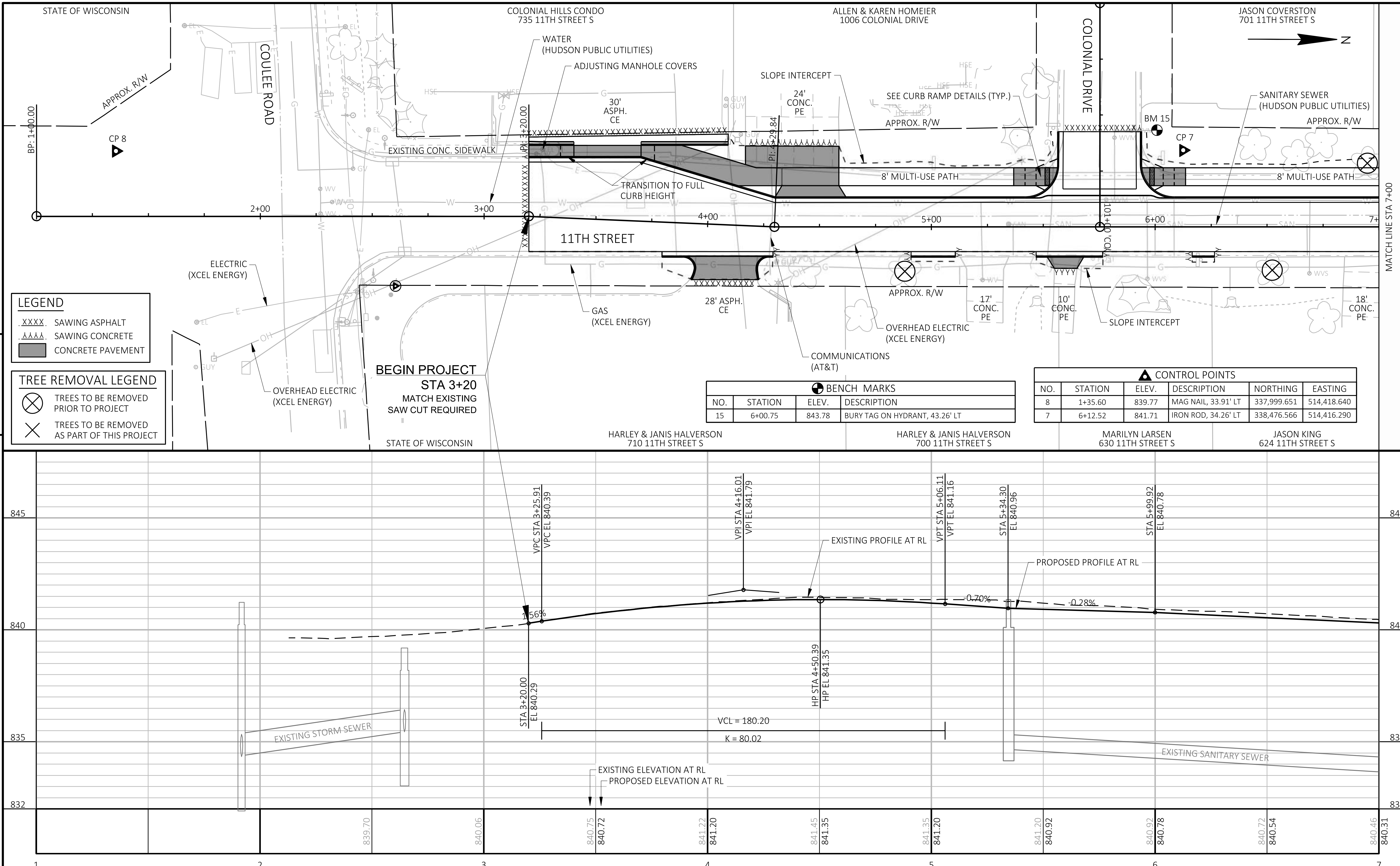


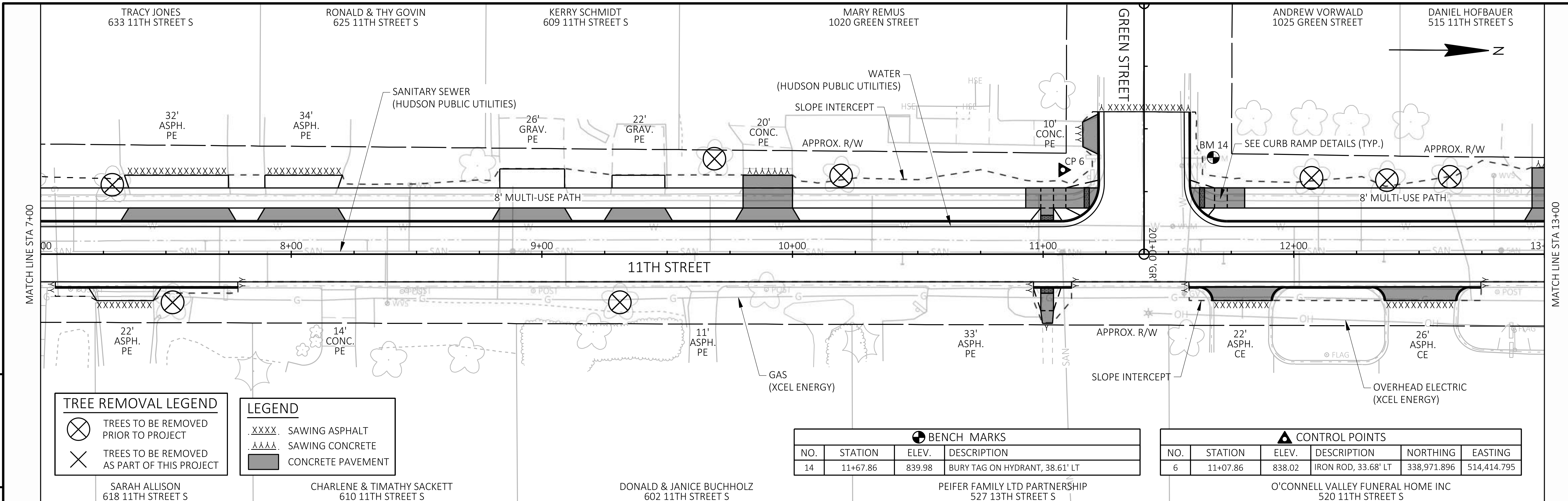
BENCH MARKS

NO.	STATION	ELEV.	DESCRIPTION
15	6+00.75	843.78	BURY TAG ON HYDRANT, 43.26' LT

CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION	NORTHING	EASTING
8	1+35.60	839.77	MAG NAIL, 33.91' LT	337,999.651	514,418.640
7	6+12.52	841.71	IRON ROD, 34.26' LT	338,476.566	514,416.290

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PLAN AND PROFILE: 11TH STREET	SHEET 75	E



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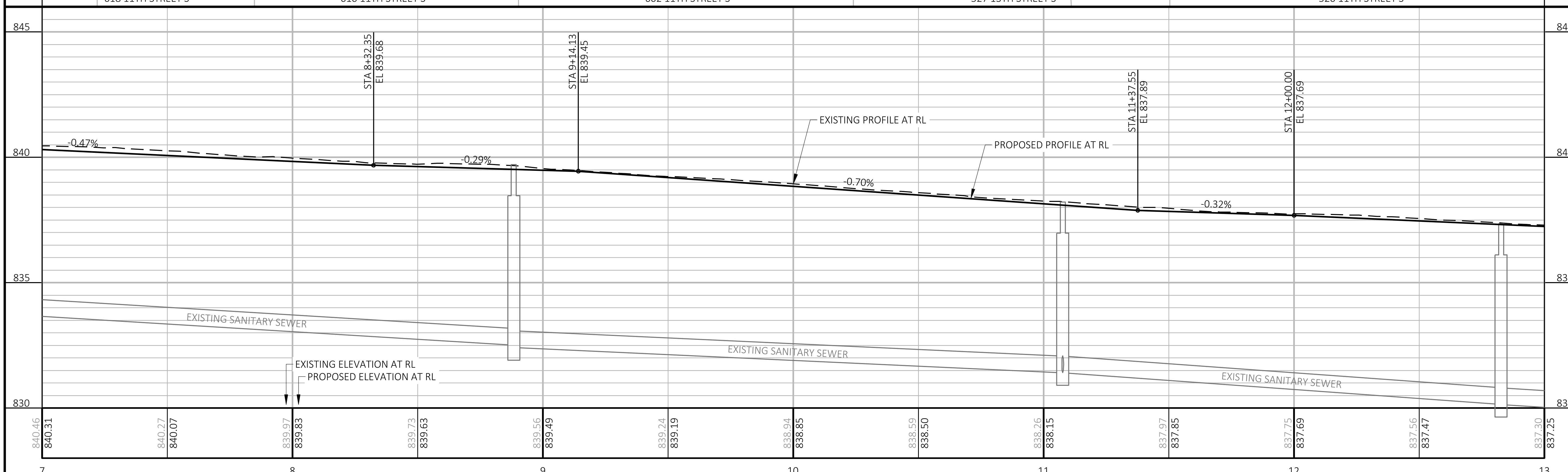
BENCH MARKS

NO.	STATION	ELEV.	DESCRIPTION
14	11+67.86	839.98	BURY TAG ON HYDRANT, 38.61' LT

CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION	NORTHING	EASTING
6	11+07.86	838.02	IRON ROD, 33.68' LT	338,971.896	514,414.795



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PLAN AND PROFILE: 11TH STREET	SHEET 76	E

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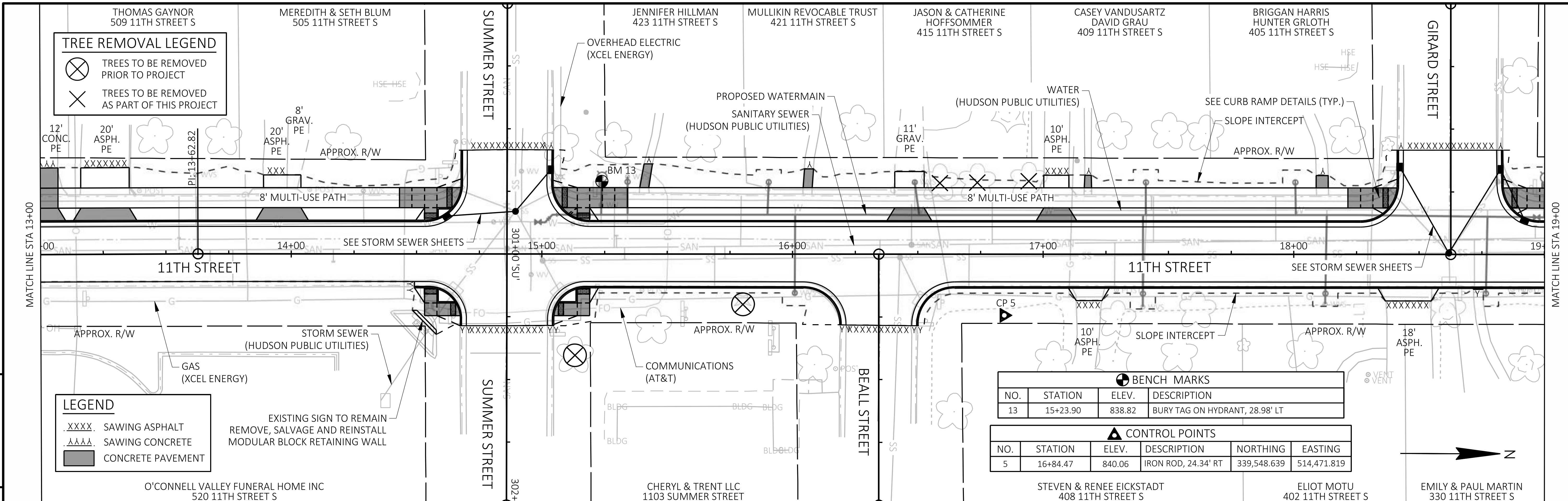
LAYOUT NAME - 050102-pp
PLOT DATE : 11/15/2024 3:25 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

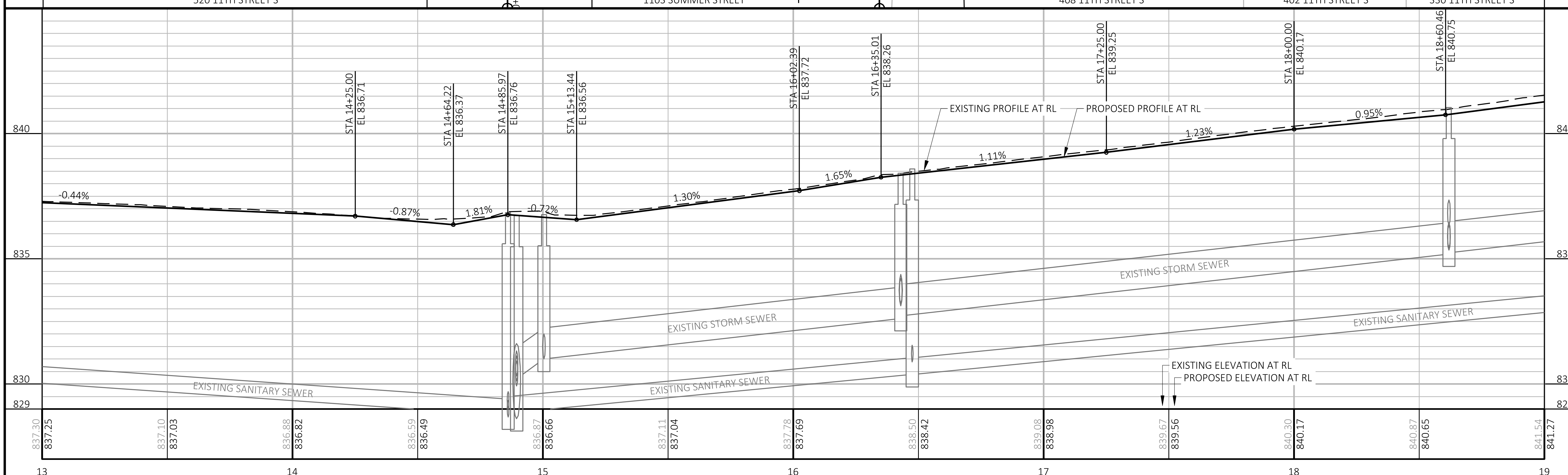


BENCH MARKS

NO.	STATION	ELEV.	DESCRIPTION
13	15+23.90	838.82	BURY TAG ON HYDRANT, 28.98' LT

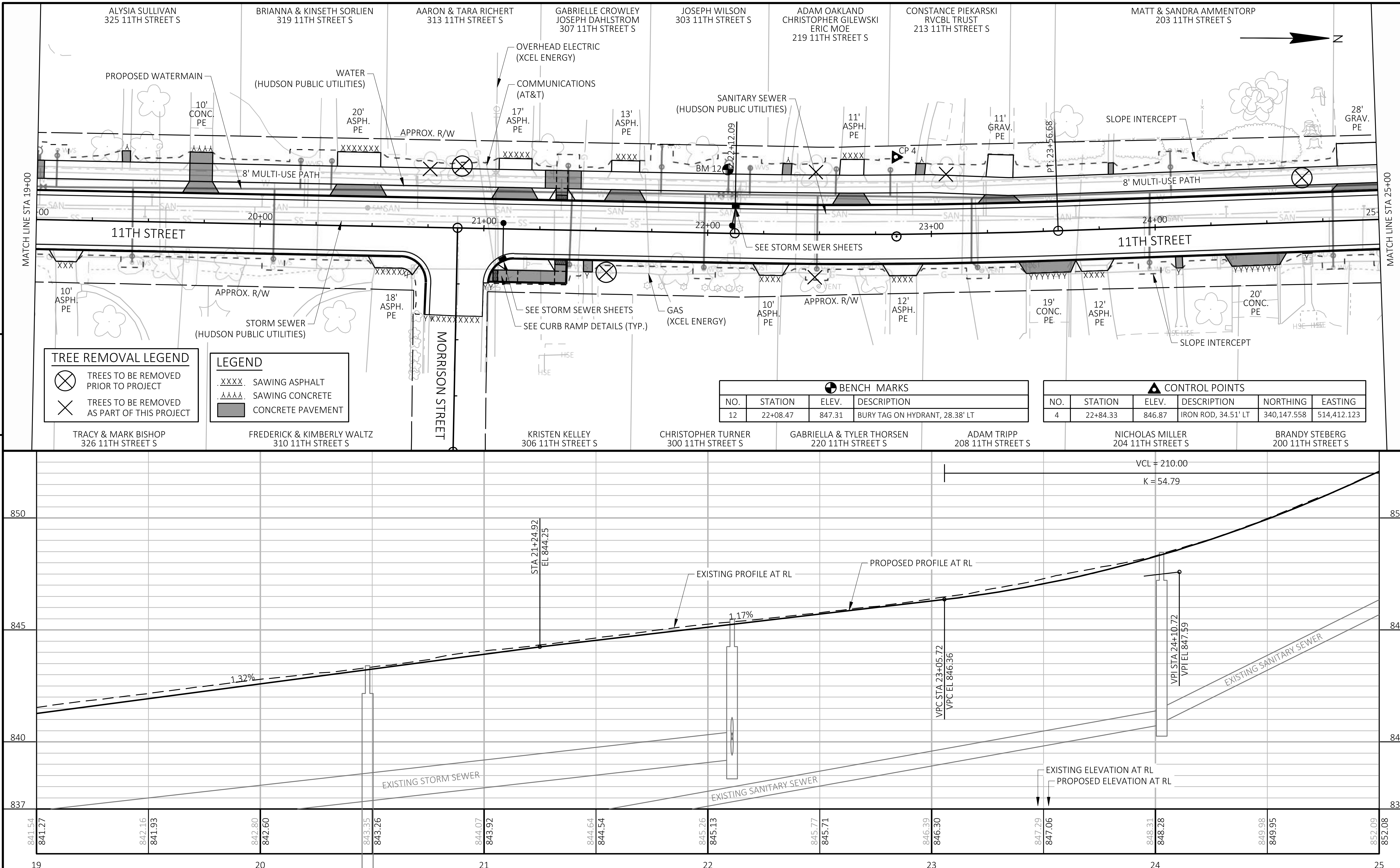
CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION	NORTHING	EASTING
5	16+84.47	840.06	IRON ROD, 24.34' RT	339,548.639	514,471.819



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PLAN AND PROFILE: 11TH STREET	SHEET 77	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050103-pp
PLOT DATE : 11/15/2024 3:25 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



BENCH MARKS

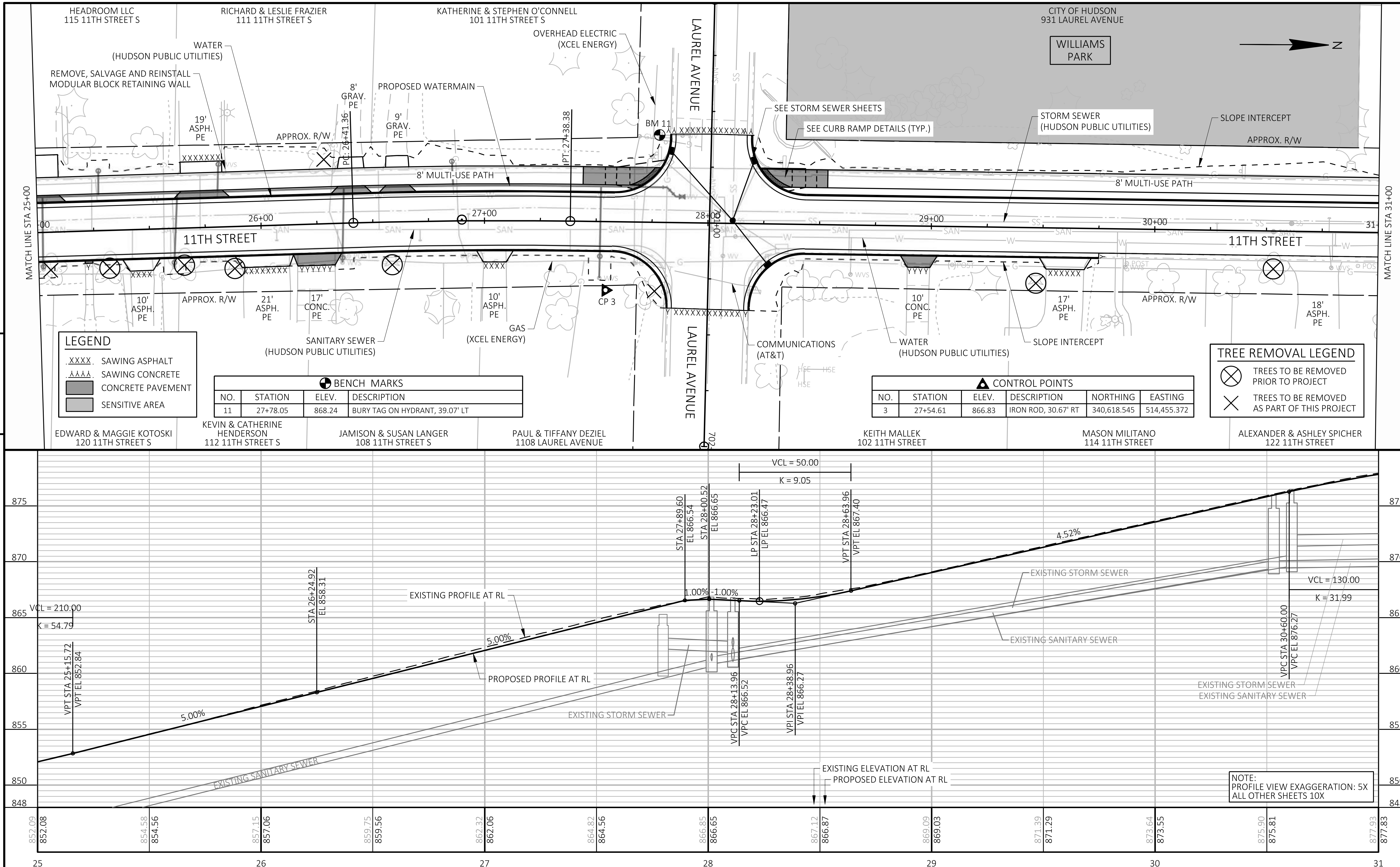
NO.	STATION	ELEV.	DESCRIPTION
12	22+08.47	847.31	BURY TAG ON HYDRANT, 28.38' LT

CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION	NORTHING	EASTING
4	22+84.33	846.87	IRON ROD, 34.51' LT	340,147.558	514,412.123

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PLAN AND PROFILE: 11TH STREET	SHEET 78	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050104-pp
PLOT DATE : 11/15/2024 3:25 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



LEGEND

XXXX	SAWING ASPHALT
⅄⅄⅄⅄	SAWING CONCRETE
	CONCRETE PAVEMENT
	SENSITIVE AREA

BENCH MARKS

NO.	STATION	ELEV.	DESCRIPTION
11	27+78.05	868.24	BURY TAG ON HYDRANT, 39.07' LT

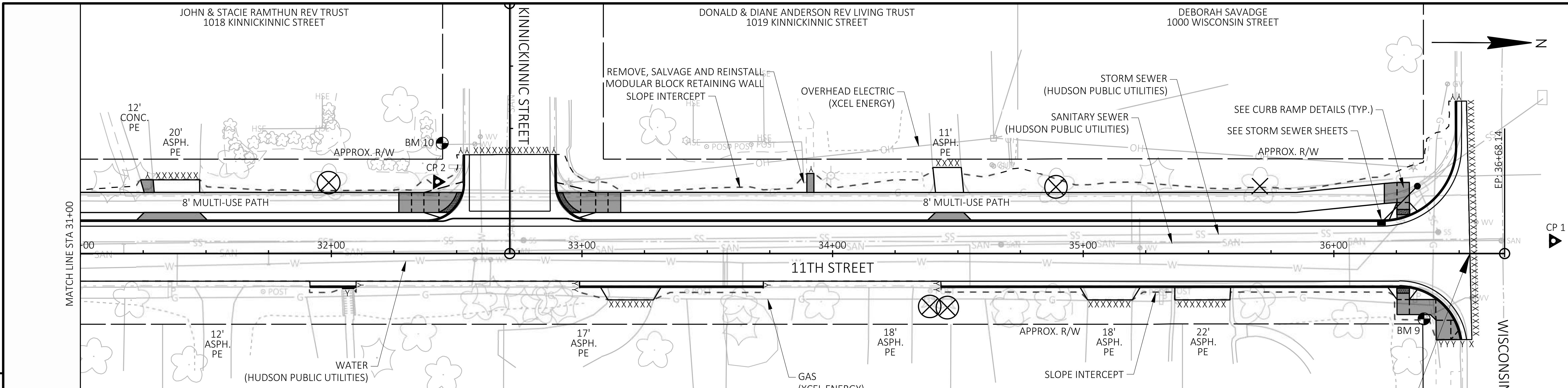
CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION	NORTHING	EASTING
3	27+54.61	866.83	IRON ROD, 30.67' RT	340,618.545	514,455.372

TREE REMOVAL LEGEND

⊗	TREES TO BE REMOVED PRIOR TO PROJECT
X	TREES TO BE REMOVED AS PART OF THIS PROJECT

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PLAN AND PROFILE: 11TH STREET	SHEET 79	E



TREE REMOVAL LEGEND

- ⊗ TREES TO BE REMOVED PRIOR TO PROJECT
- × TREES TO BE REMOVED AS PART OF THIS PROJECT

LEGEND

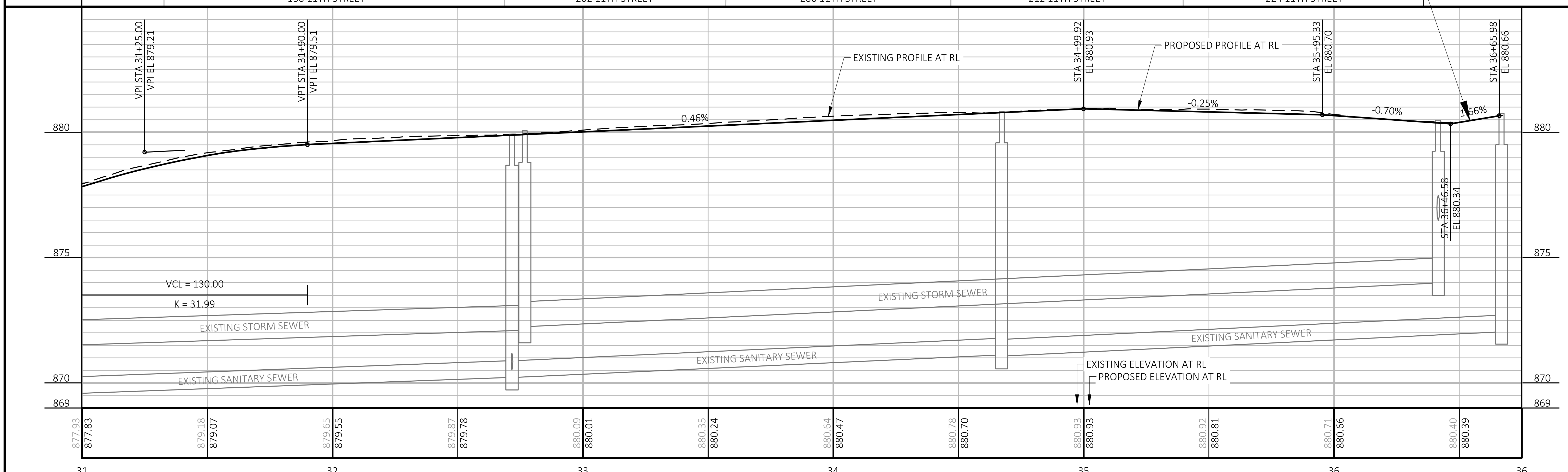
- XXXX SAWING ASPHALT
- ⅄⅄⅄⅄ SAWING CONCRETE
- CONCRETE PAVEMENT

BENCH MARKS

NO.	STATION	ELEV.	DESCRIPTION
10	32+44.28	883.92	BURY TAG ON HYDRANT, 44.13' LT
9	36+35.99	882.16	BURY TAG ON HYDRANT, 26.08' RT

CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION	NORTHING	EASTING
2	32+42.40	881.07	IRON ROD, 28.72' LT	341,105.689	514,390.867
1	36+87.64	881.29	IRON ROD, 5.10' LT	341,551.148	514,409.820

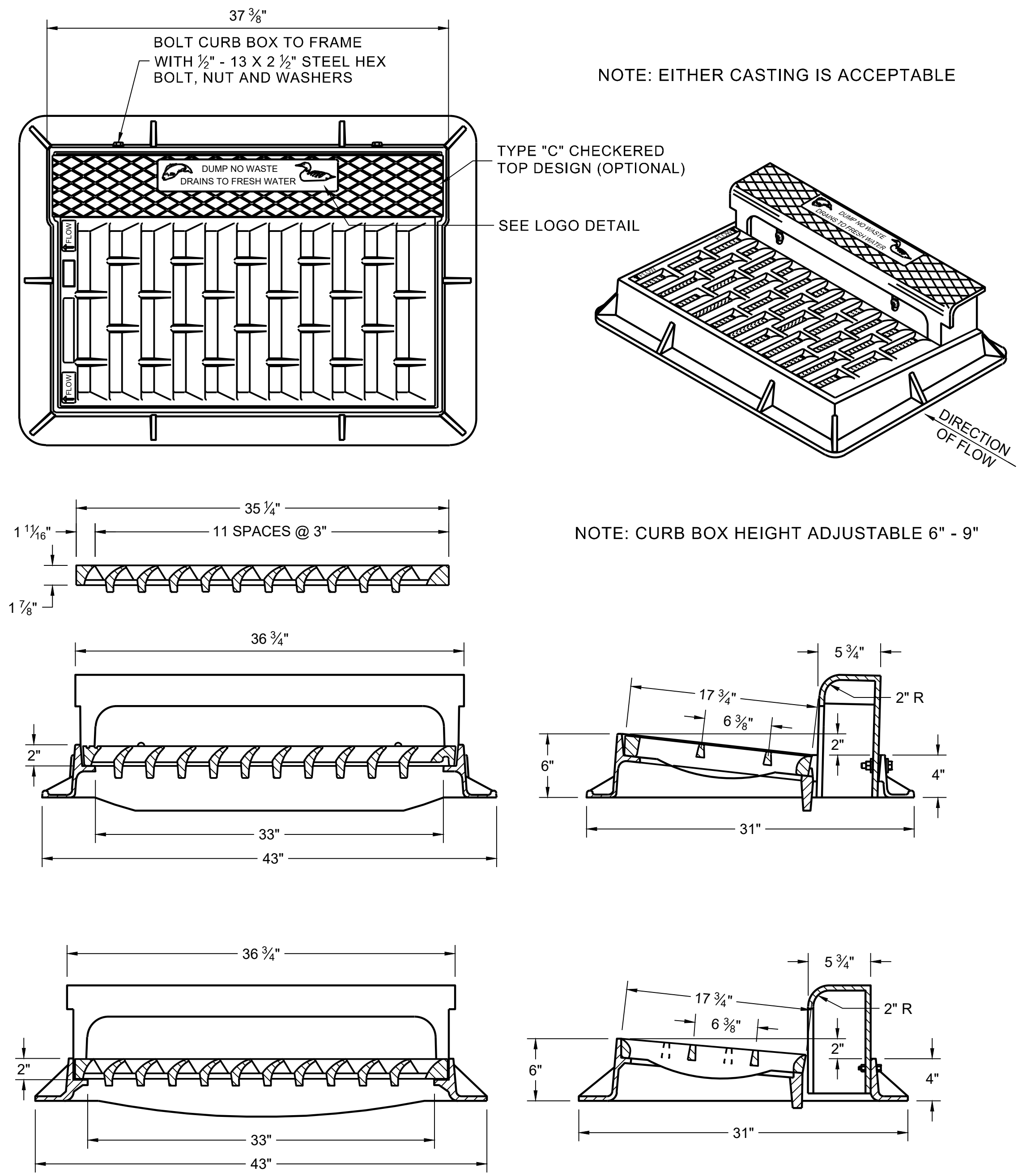


PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	PLAN AND PROFILE: 11TH STREET	SHEET 80	E

Standard Detail Drawing List

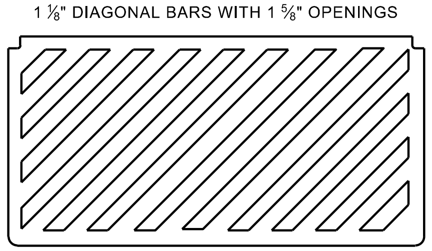
08A05-21A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-21E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D17-06	MANHOLES, MANHOLE & INLET COVERS
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-04	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13C19-03	HMA LONGITUDINAL JOINTS
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING

6



TYPE "H"

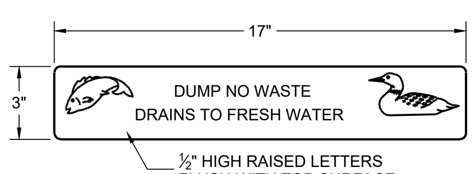
NOTE: EITHER CASTING IS ACCEPTABLE



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35" X 17 ¾" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



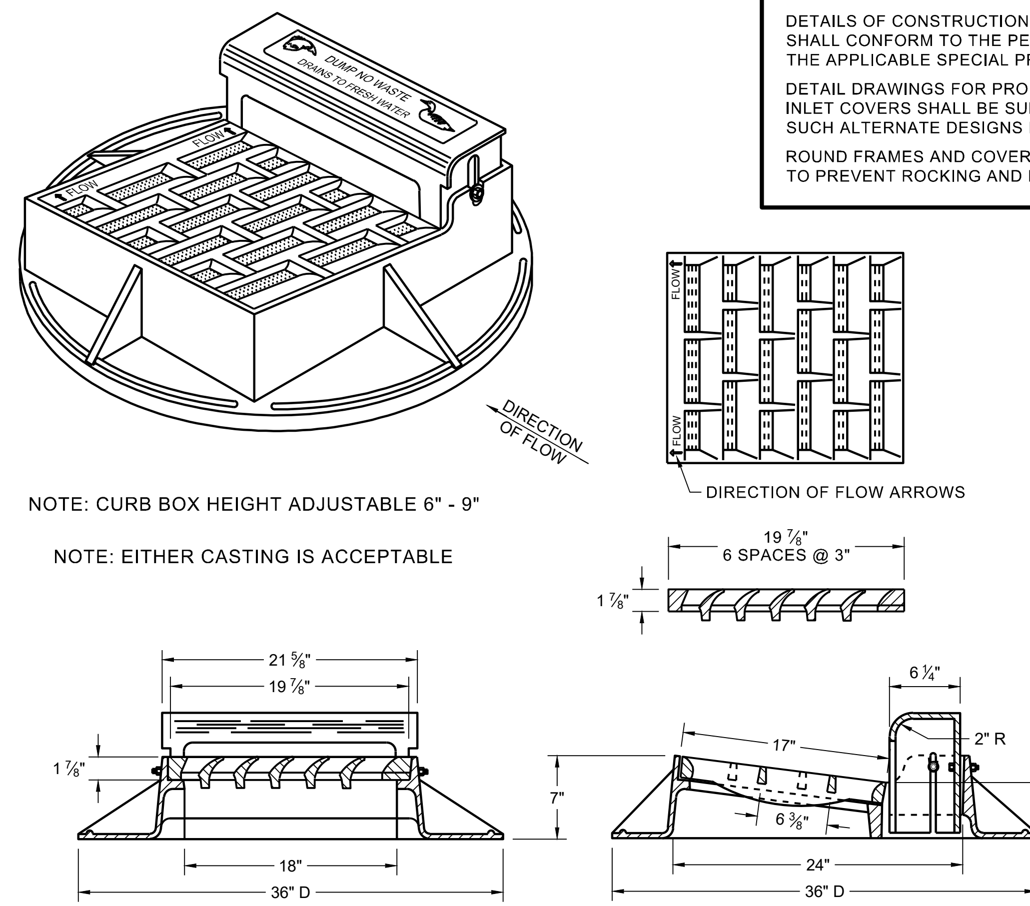
LOGO DETAIL

GENERAL NOTES

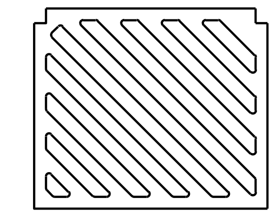
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



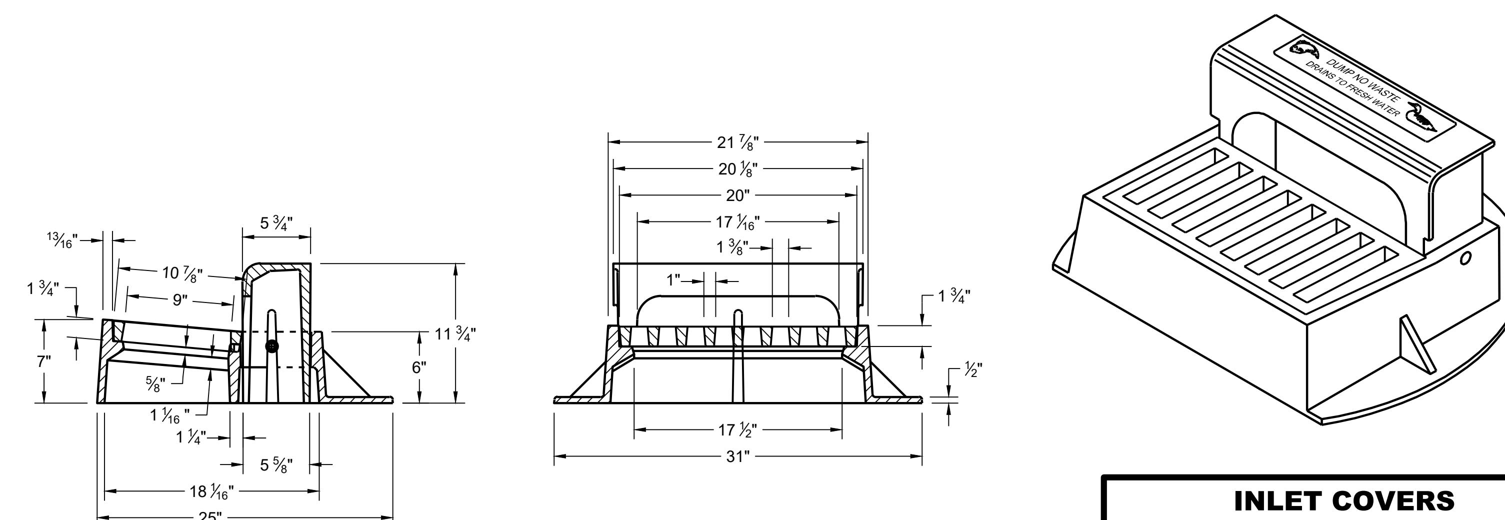
TYPE "A"



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 ¾" X 17" X 1 ⅞")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "Z"

INLET COVERS TYPES A, H, A-S, H-S AND Z

STATE OF WISCONSIN
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December 2023 — DATE

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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SDD 08A05-21a

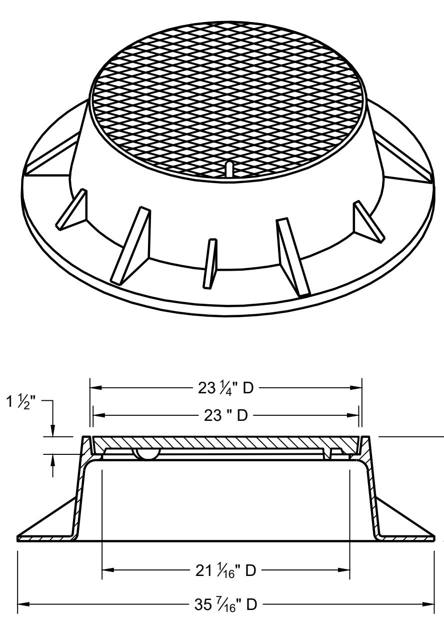
SDD 08A05-21a

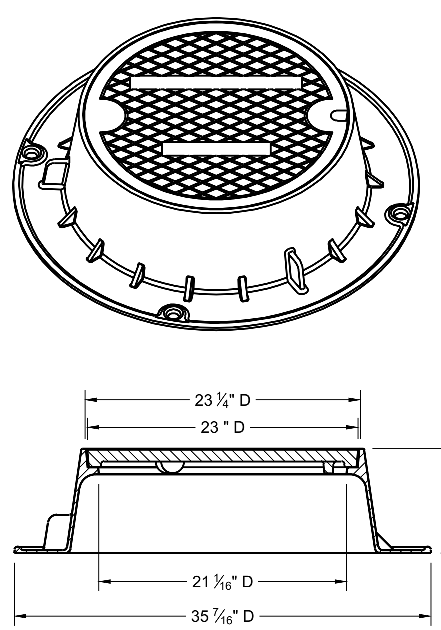
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

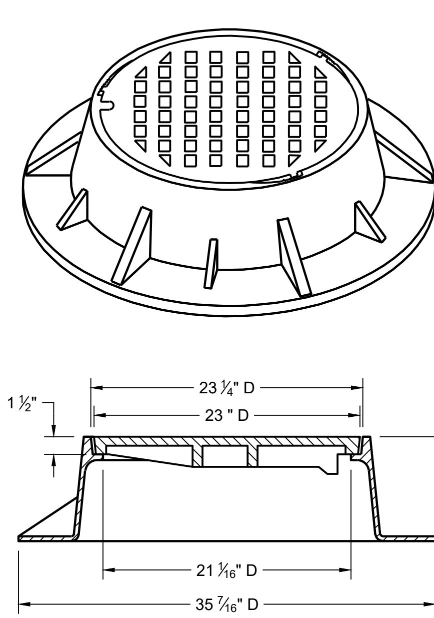
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

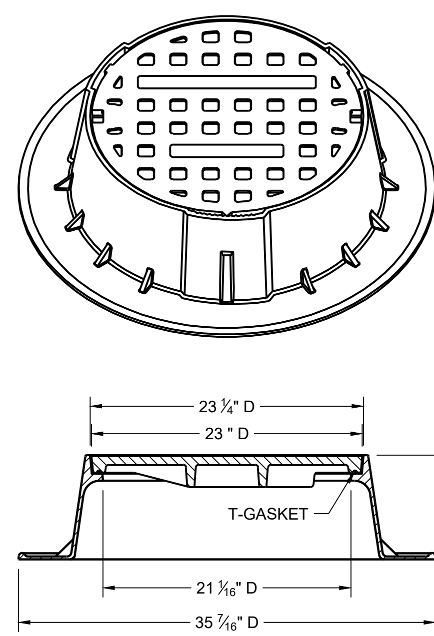




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

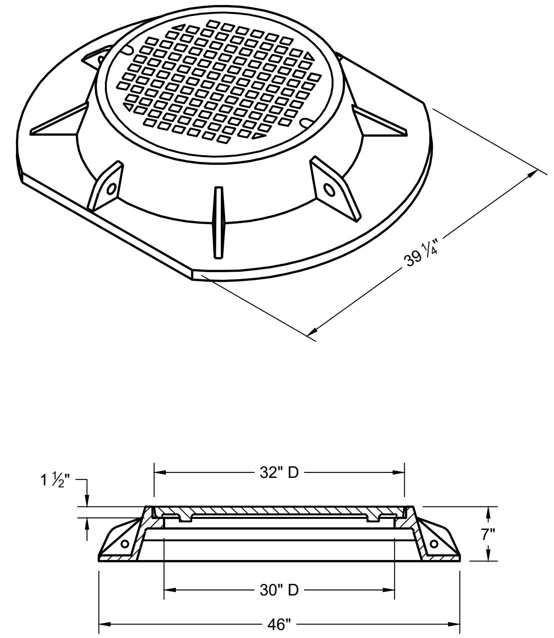




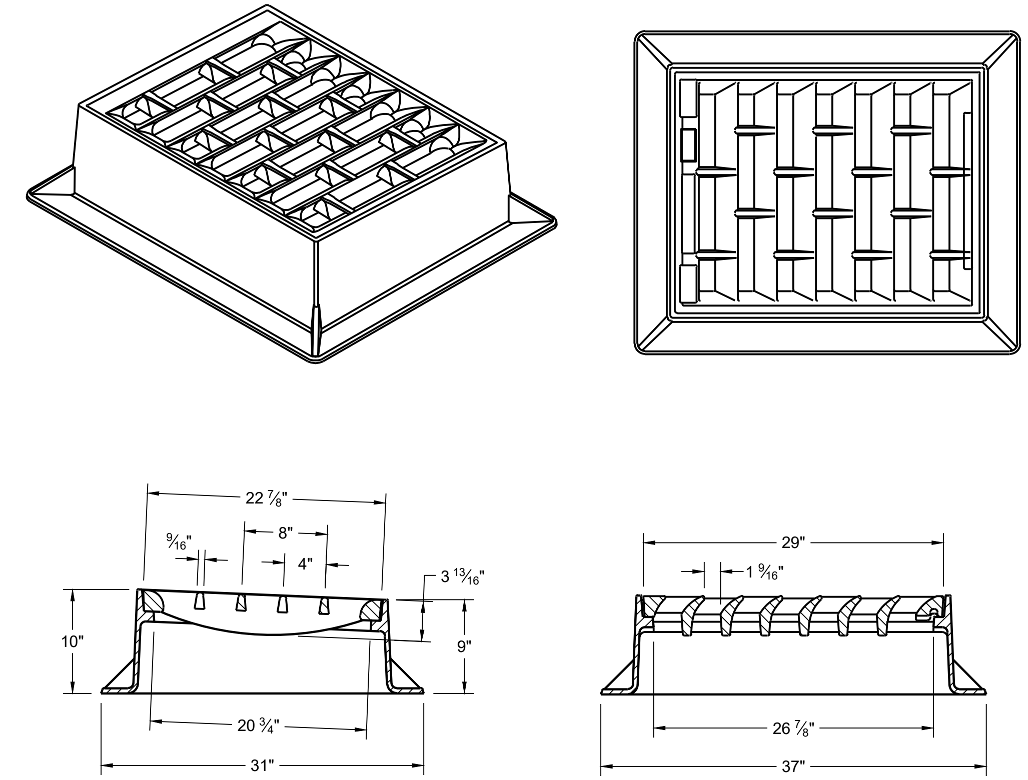
TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

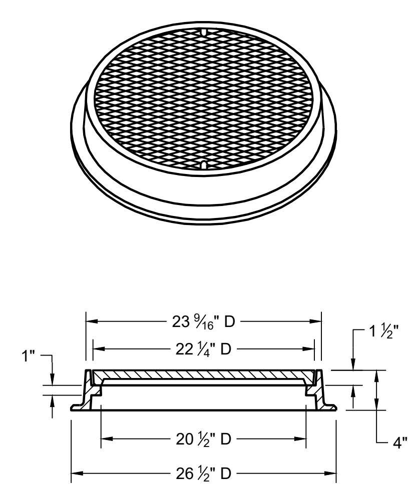
NOTE: EITHER CASTING IS ACCEPTABLE



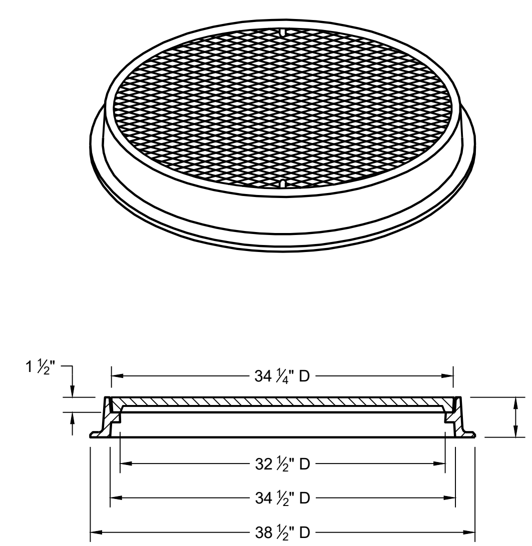
TYPE "K"



INLET COVER TYPE "BW"



TYPE "L"



TYPE "M"

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INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

STATE OF WISCONSIN
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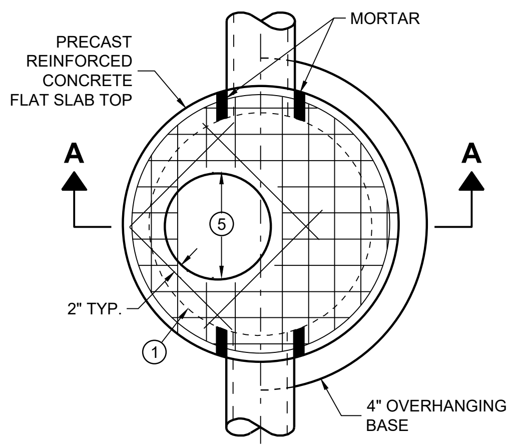
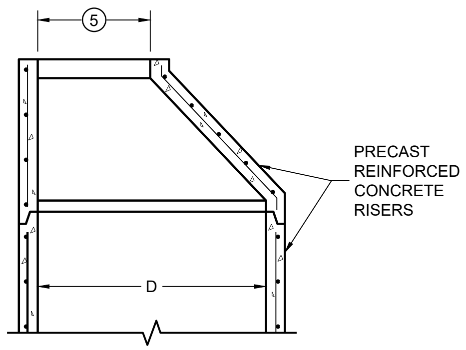
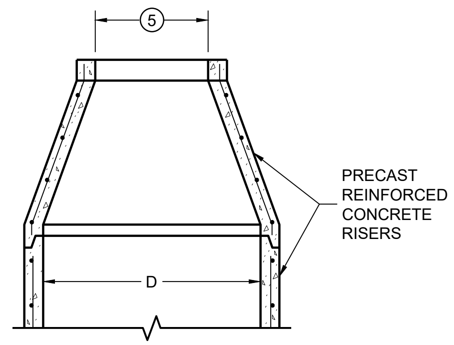


PLAN VIEW

CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE / OPENING SIZE (FT.) (5)	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42 *	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

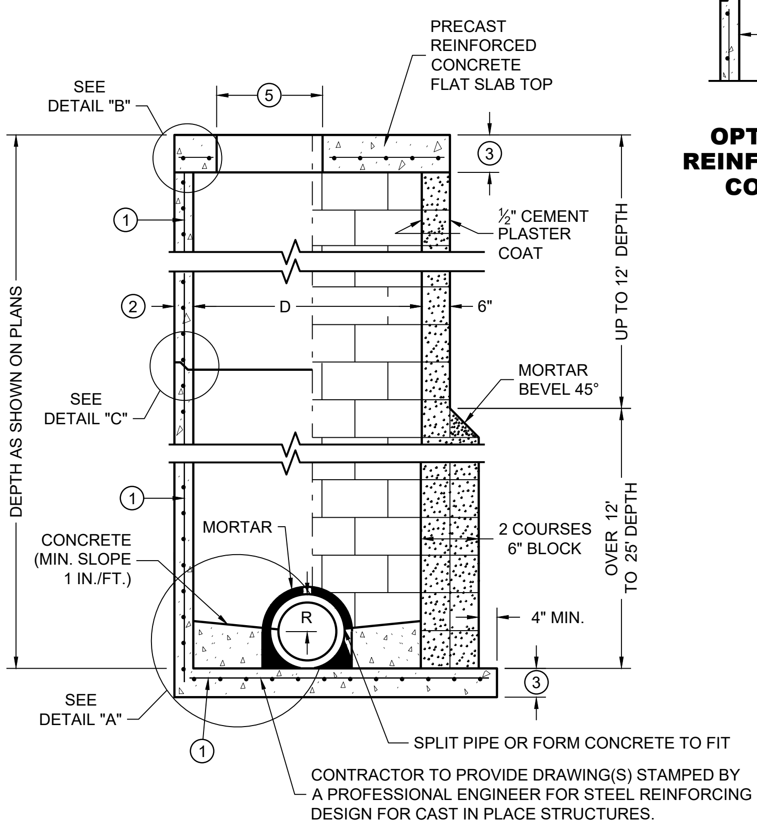
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

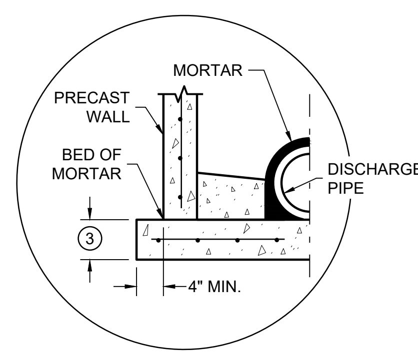
(5) SEE MANHOLE COVER OPENING MATRIX.



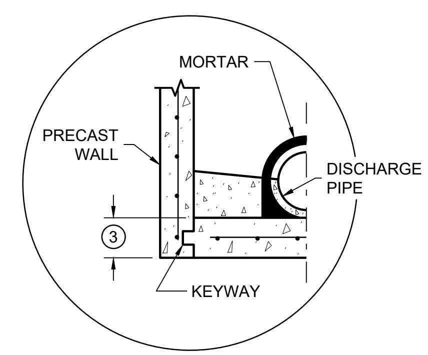
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

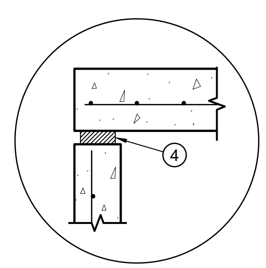


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

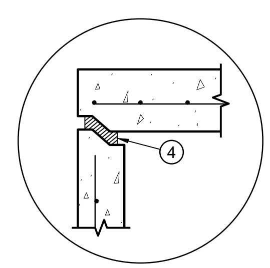


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

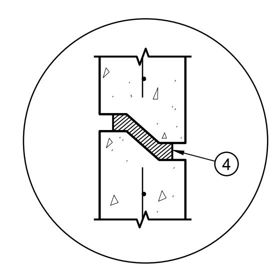


TOP WITH PLAIN END JOINT



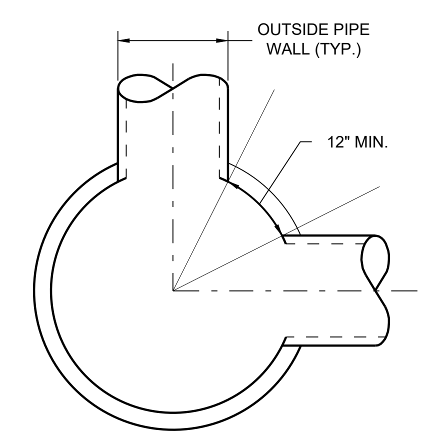
TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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December 2023	/S/ Rodney Taylor
DATE	ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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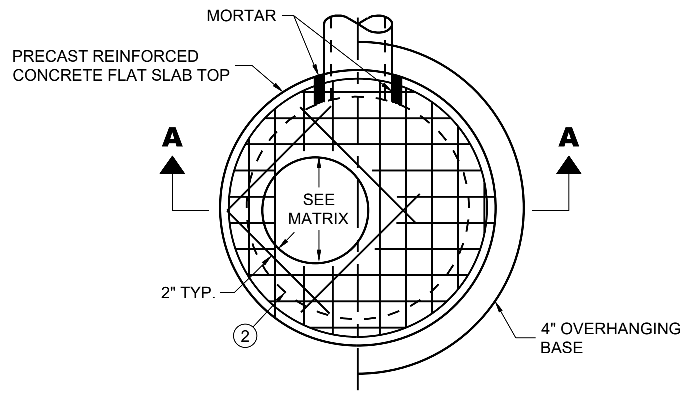
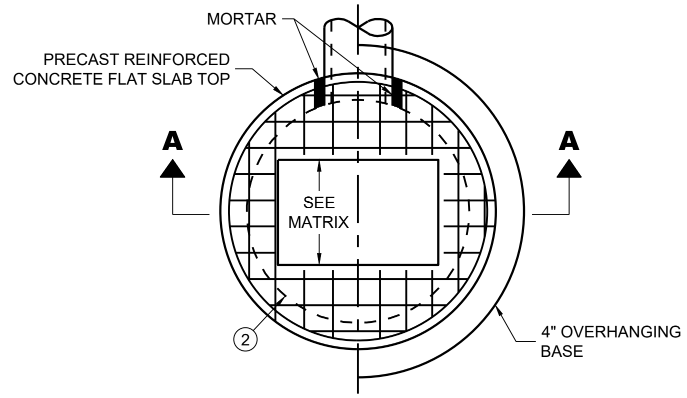


PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING

CATCH BASIN COVER OPENING MATRIX

INLET SIZE	INLET COVER TYPE / OPENING SIZE (FT.)	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
3-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
4-FT	2 DIA.				X							X
	2 X 2	X	X					X		X		
	2 X 2.5			X				X	X	X	X	
	2 X 3						X					
	2.5 X 3					X						

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

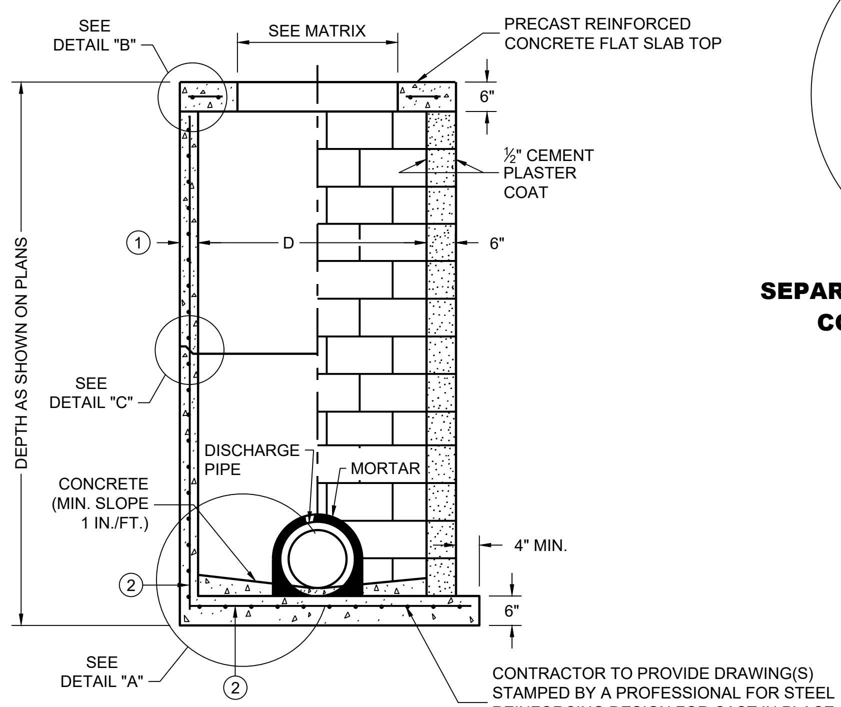
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

1 MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.

2 FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

3 JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

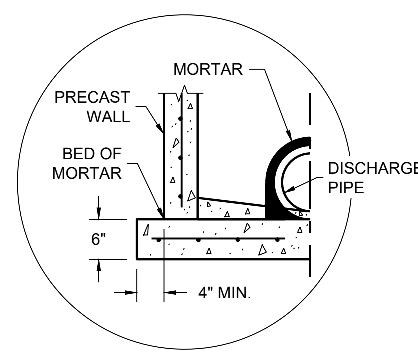


SECTION A - A

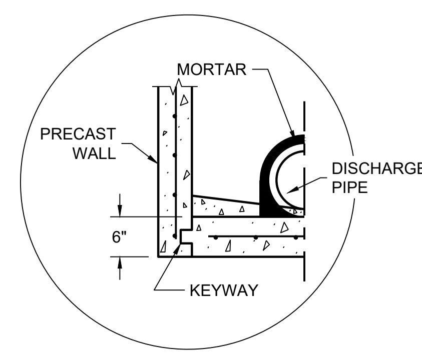
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE 2

CIRCULAR INLETS WITH FLAT TOP

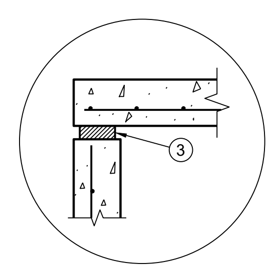


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

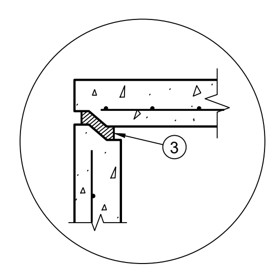


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"

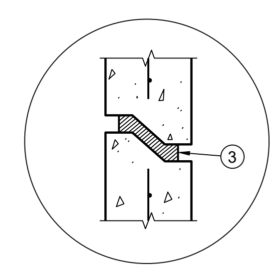


TOP WITH PLAIN END JOINT



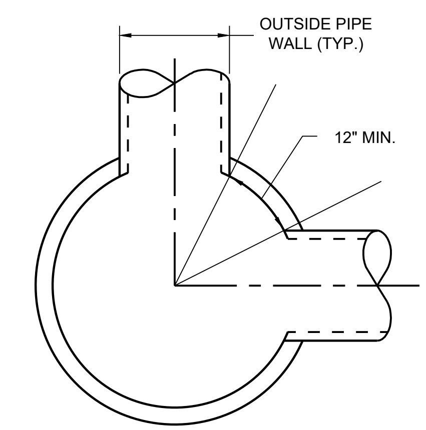
TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "C"



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

INLETS 3-FT AND 4-FT DIAMETER

INLETS 3-FT AND 4-FT DIAMETER
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED December 2023 DATE — /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

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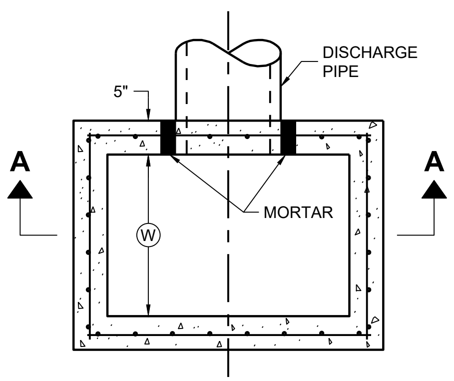
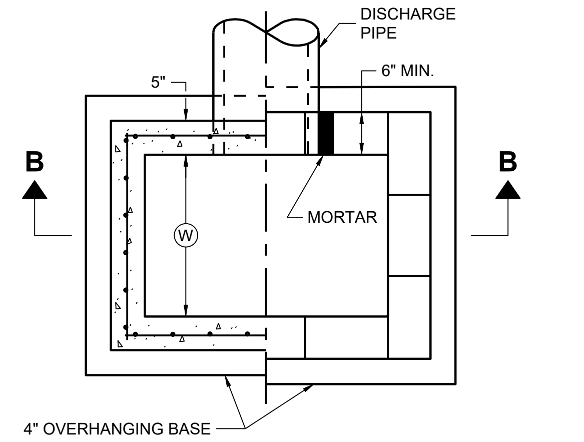
SDD 08C06-03

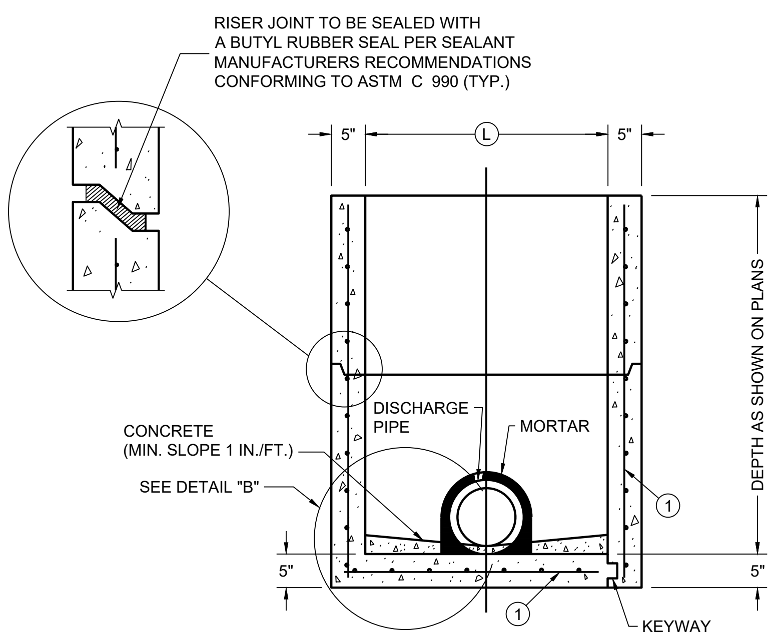
SDD 08C06-03



PLAN VIEW



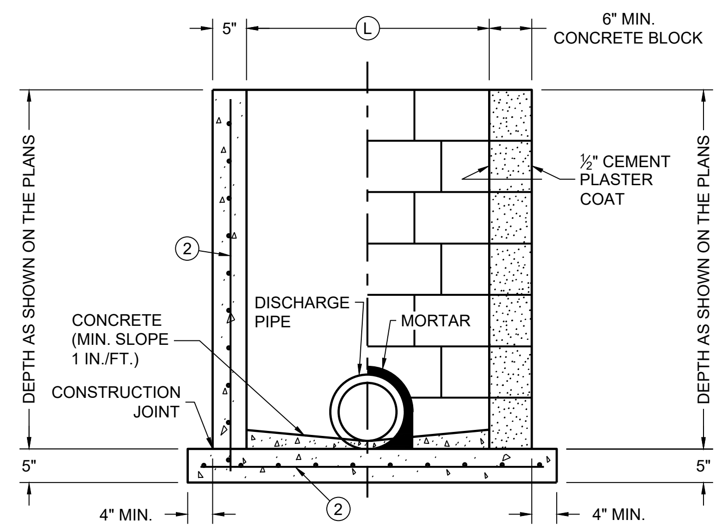
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

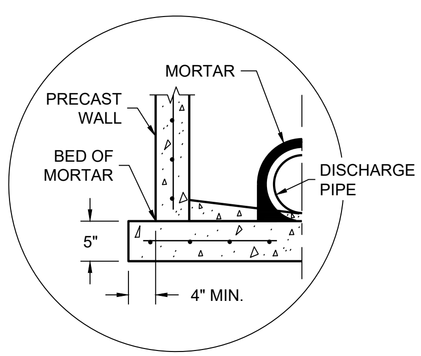
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

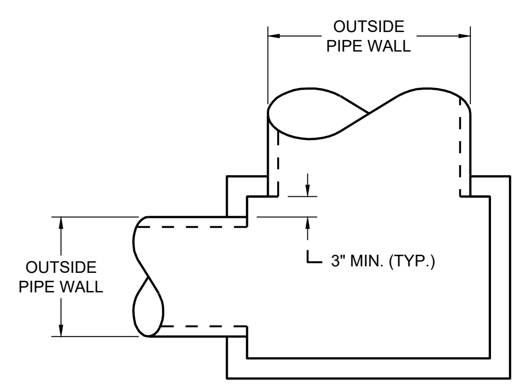
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE 1

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

1 FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913

2 CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

December 2023 — DATE

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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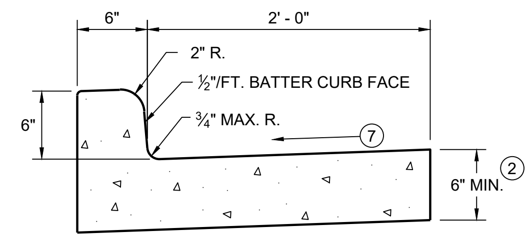
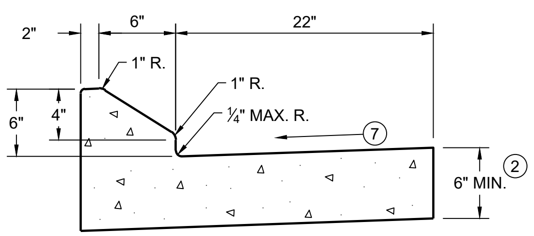
SDD 08C07-03

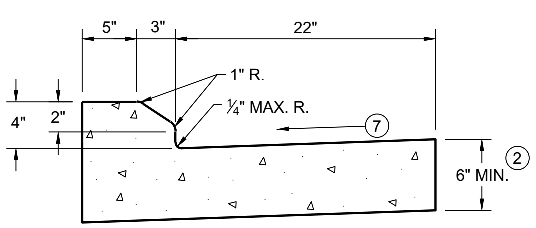
SDD 08C07-03



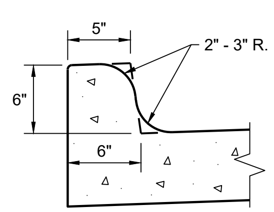
TYPES A 1 & D



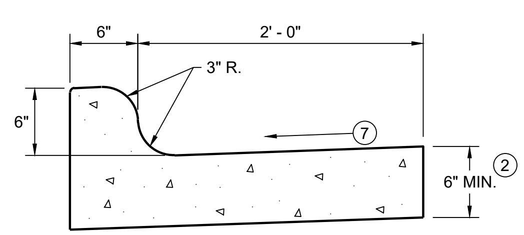
6" SLOPED CURB TYPES G 1 & J



4" SLOPED CURB TYPES G 1 & J

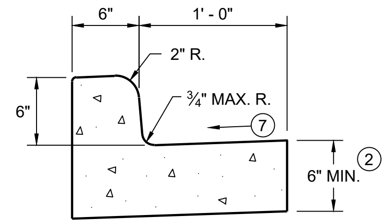


TYPES K 1 & L
(OPTIONAL CURB SHAPE)



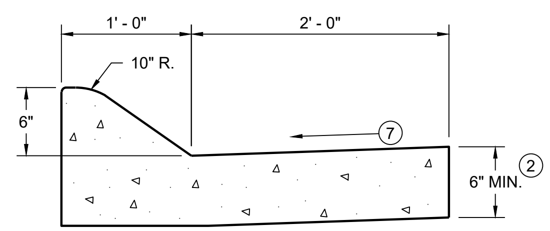
TYPES K 1 & L

CONCRETE CURB AND GUTTER 30"

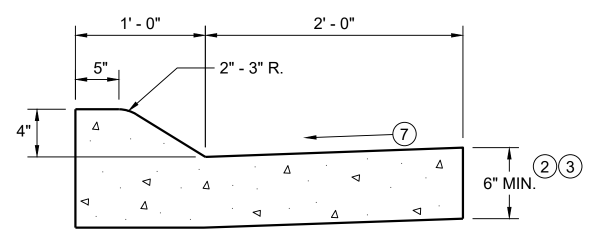


TYPES A 1 & D

CONCRETE CURB AND GUTTER 18"

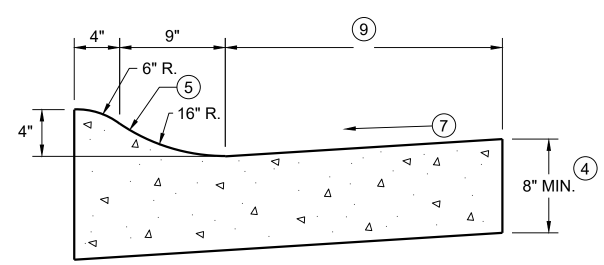


6" SLOPED CURB TYPES A 1 & D



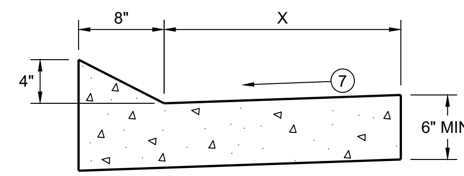
4" SLOPED CURB TYPES A 1 & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R 1 & T

TBT & TBTT	X
30"	22"
36"	28"



TYPES TBT & TBTT 1

CONCRETE CURB AND GUTTER

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

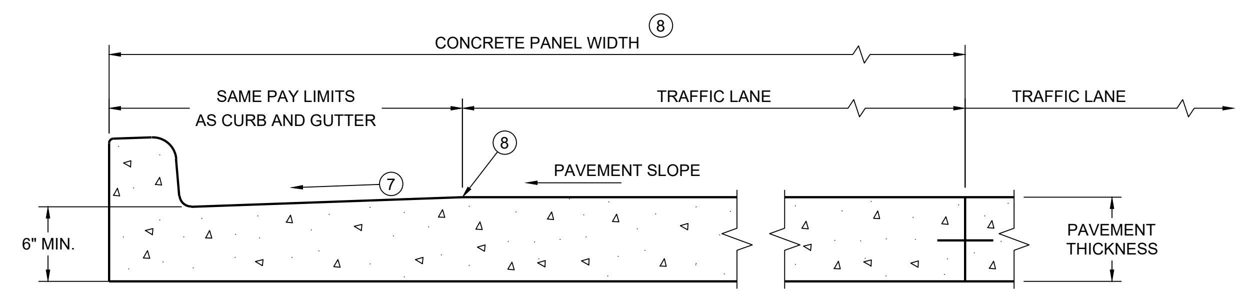
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

1. TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
4. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
5. UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
6. WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
7. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
8. INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
9. CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
   CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

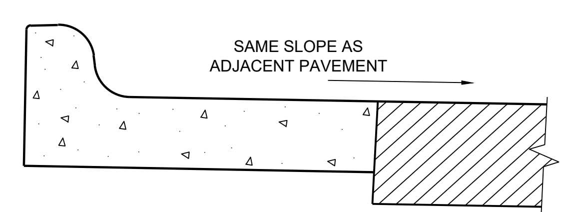
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER *

* BIKE LANE IS NOT SHOWN



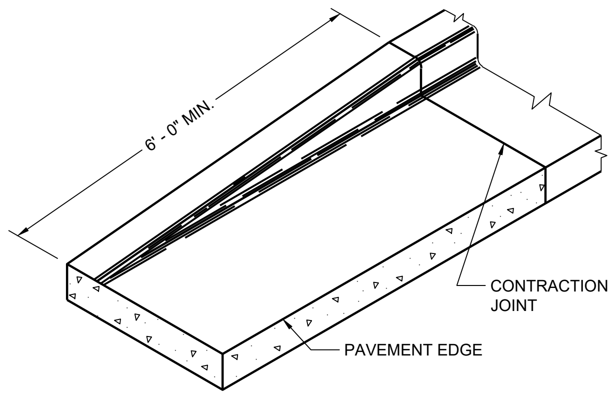
REVERSE SLOPE GUTTER 6
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB AND GUTTER

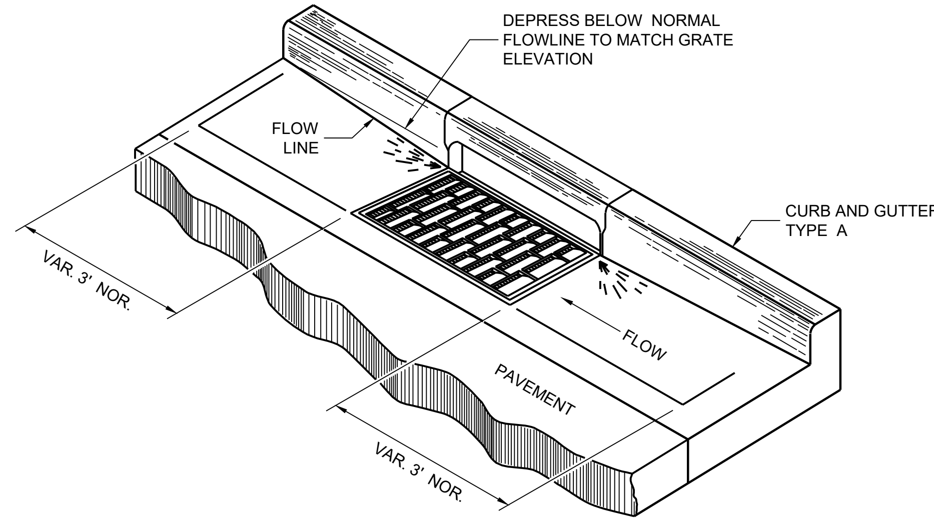
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D01-23a

6
SDD 08D01-23a



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

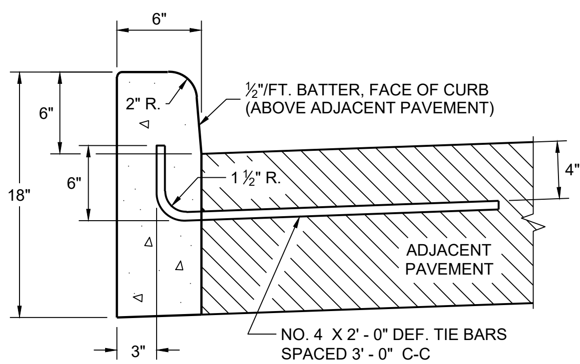
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

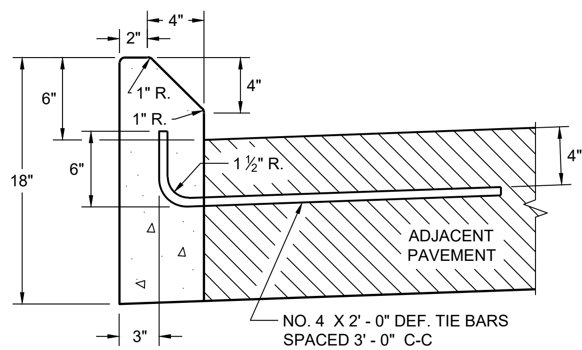
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

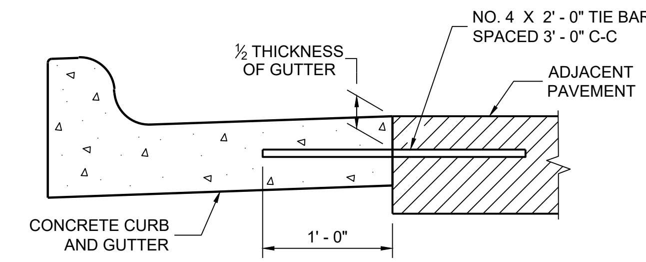


TYPES A (1) & D

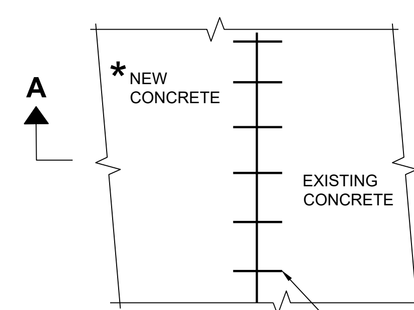


TYPES G (1) & J

CONCRETE CURB

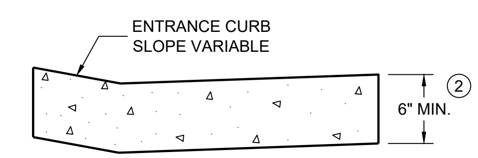


TYPICAL TIE BAR LOCATION (1)



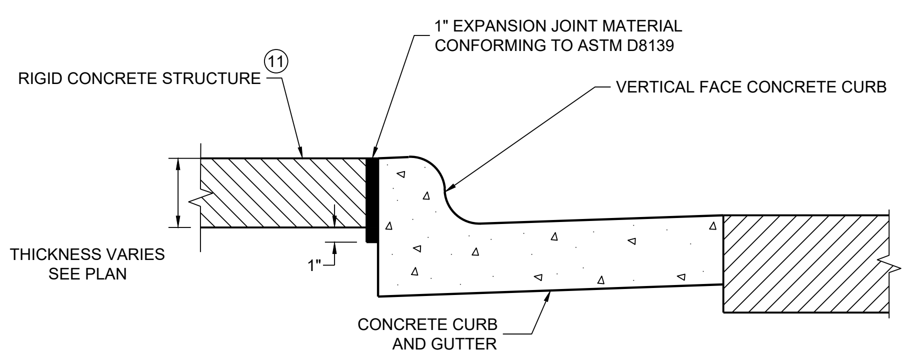
* NEW CURB AND GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

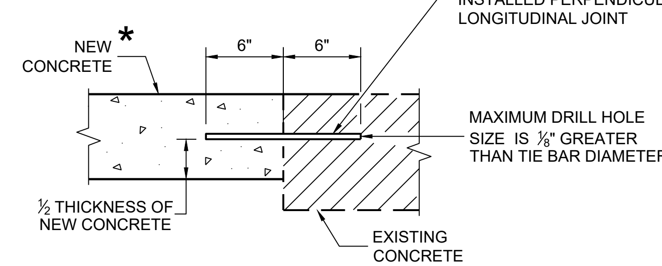


DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

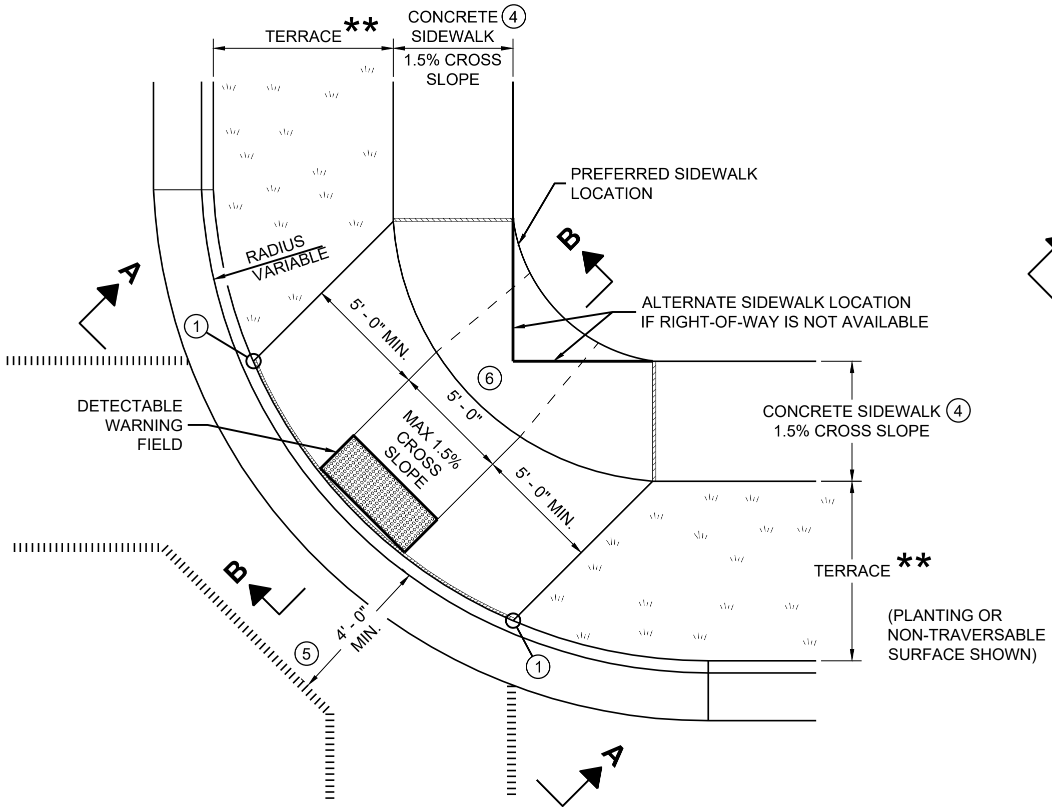
6

SDD 08D01-23b

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

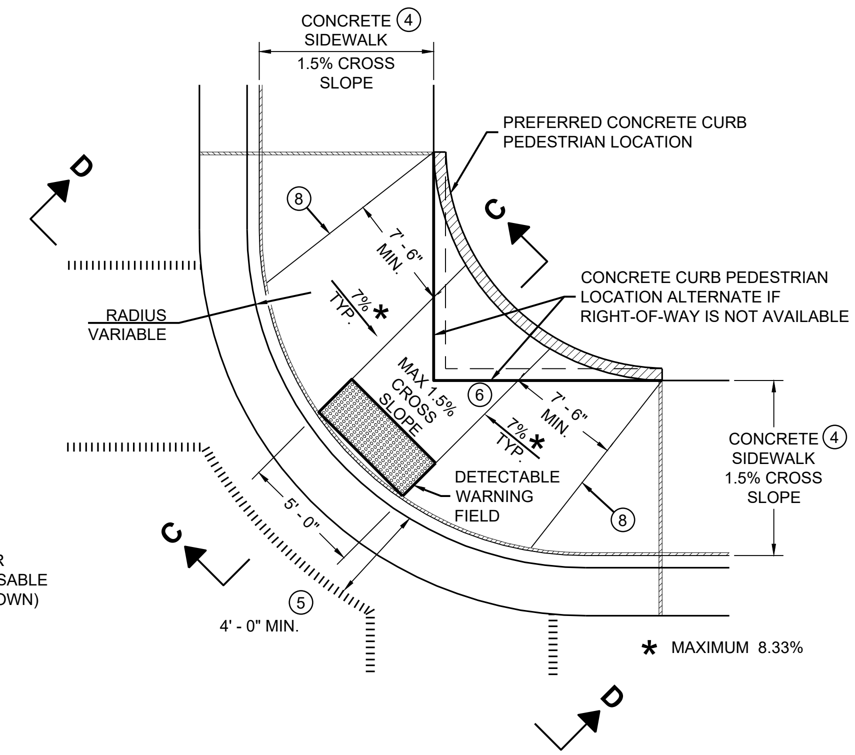
APPROVED	
May 2023	/S/ Rodnery Taylor
DATE	ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA	



PLAN VIEW

CURB RAMP TYPE 1

(CENTER OF CORNER RADIUS)



PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

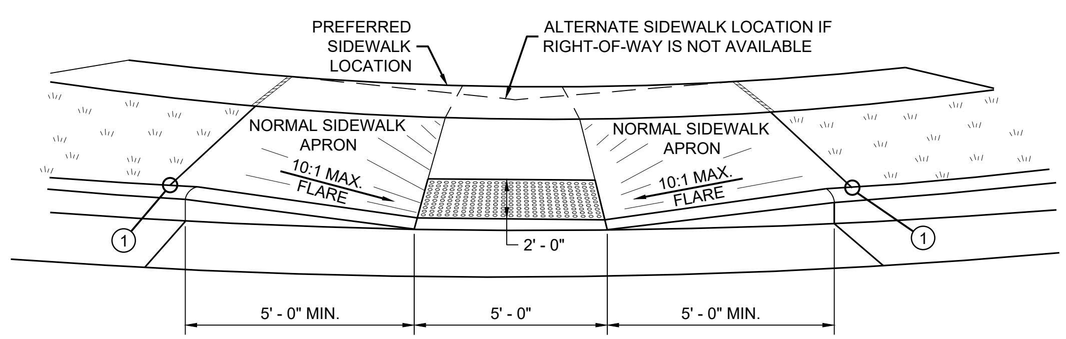
DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

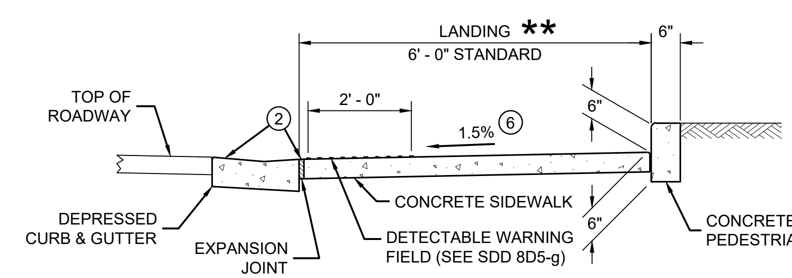
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

1. THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.
2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4 - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
3. MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
4. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
5. PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA. 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE
6. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.
8. PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A - A FOR TYPE 1

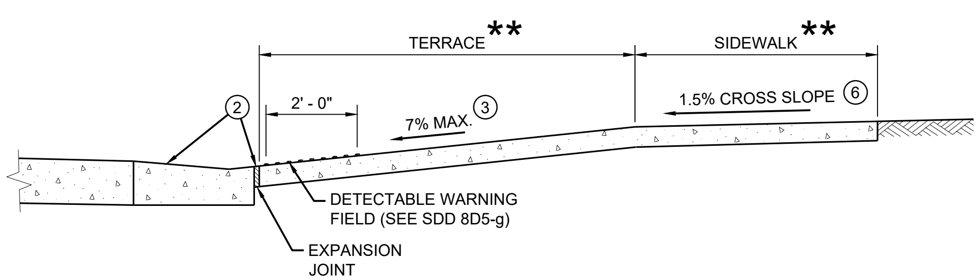


SECTION C - C FOR TYPE 1 - A

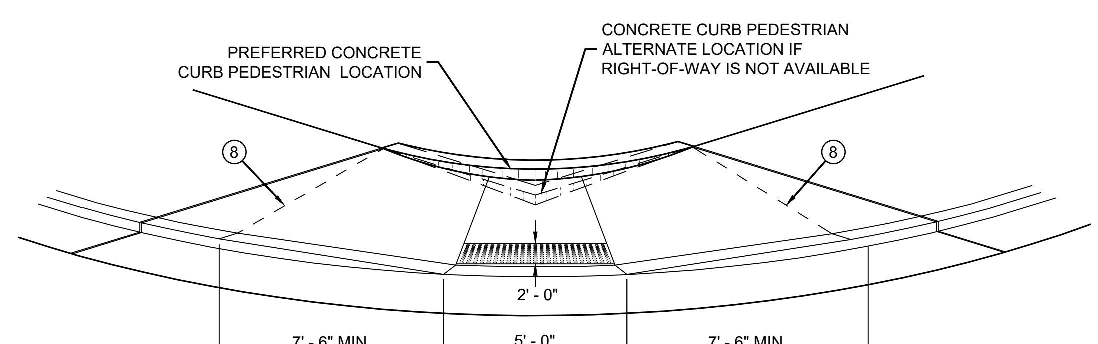
** WIDTH SHOWN ELSEWHERE IN THE PLANS

LEGEND

(symbol)	1/2" EXPANSION JOINT SIDEWALK
— — —	CONTRACTION JOINT FIELD LOCATED
(symbol)	PAVEMENT MARKING CROSSWALK (WHITE)



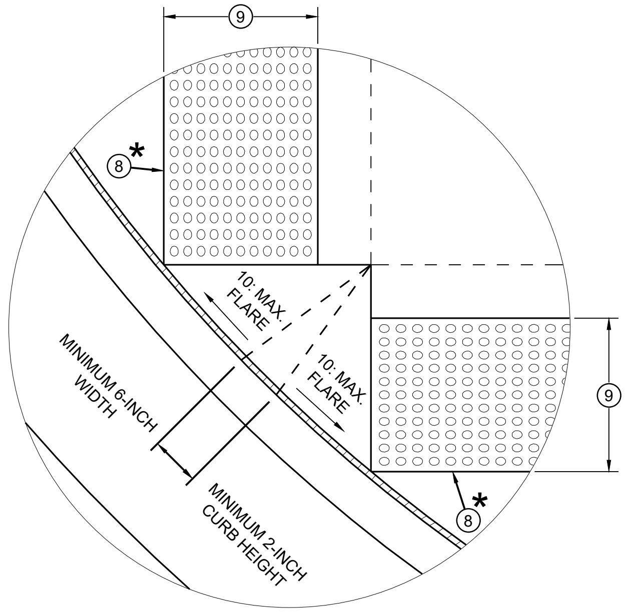
SECTION B - B FOR TYPE 1



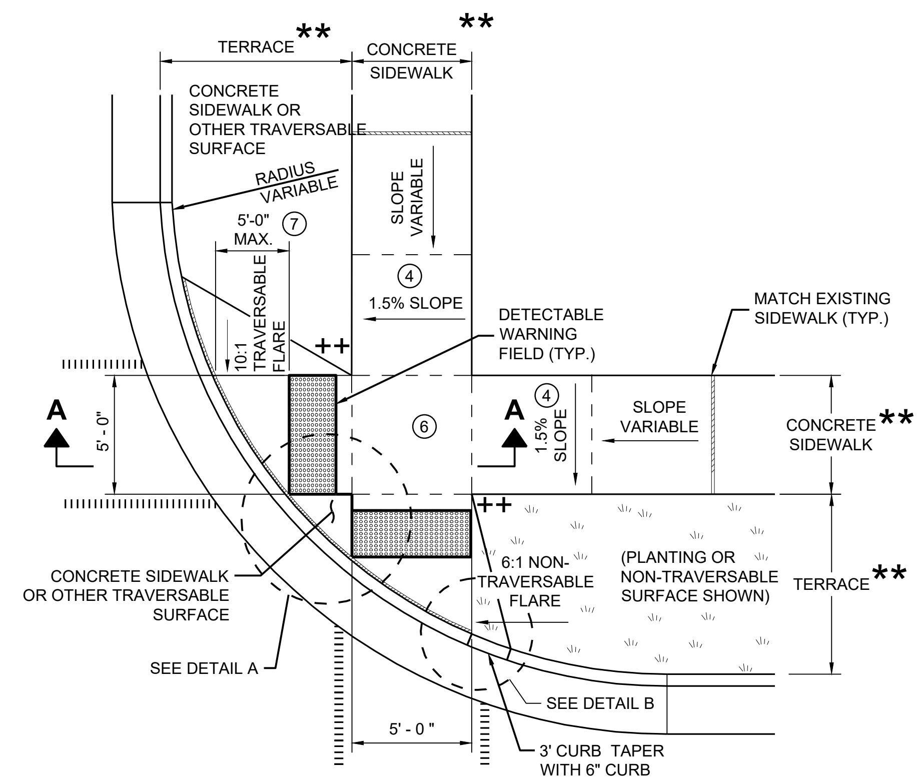
VIEW D - D FOR TYPE 1 - A

CURB RAMPS
TYPE 1 AND 1-A

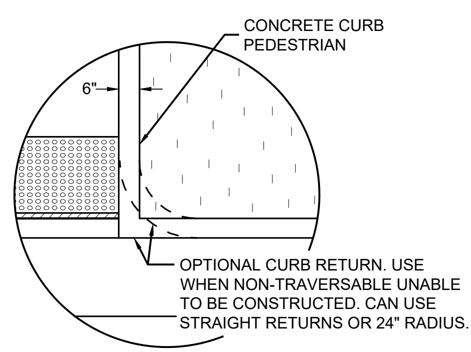
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



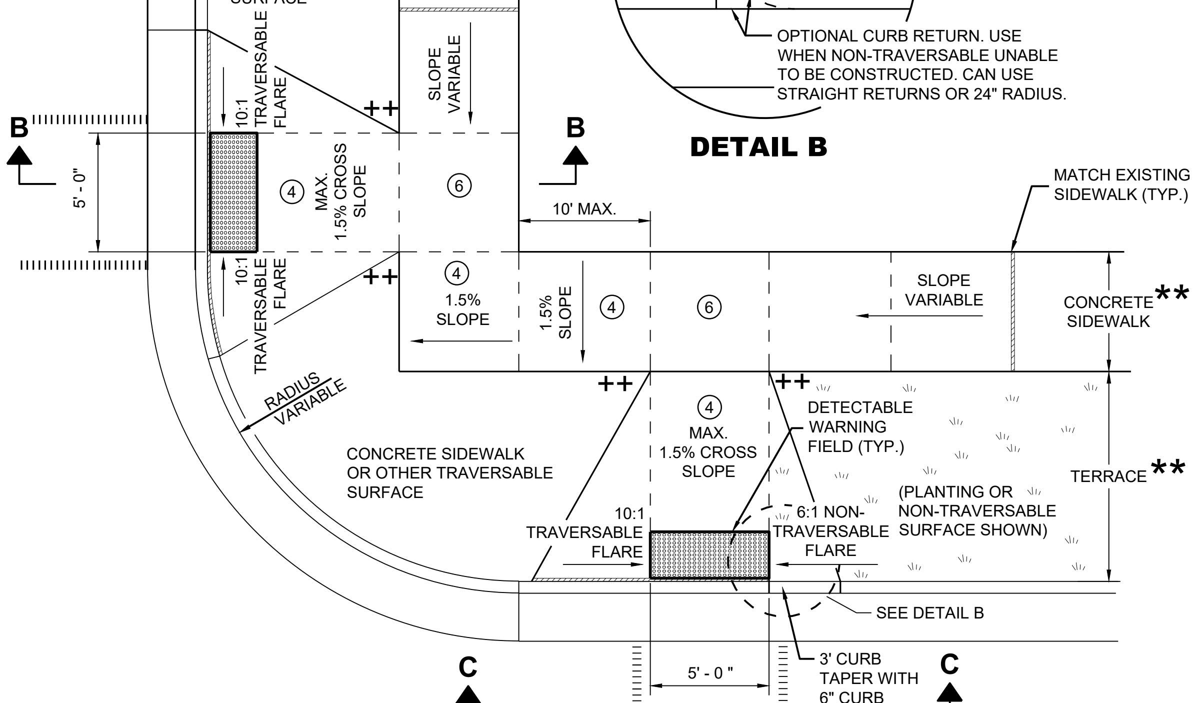
DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

2 GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

3 AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

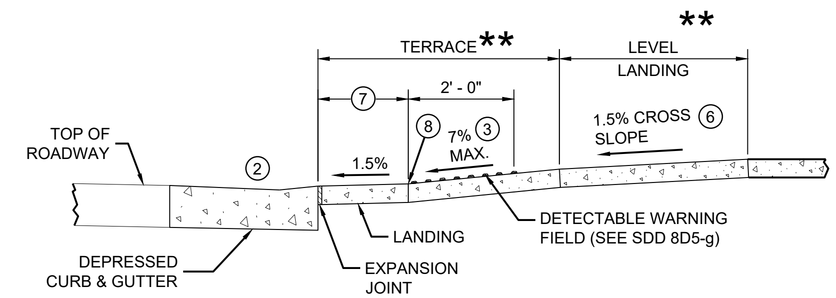
4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

6 PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

7 WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

8 PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

9 WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

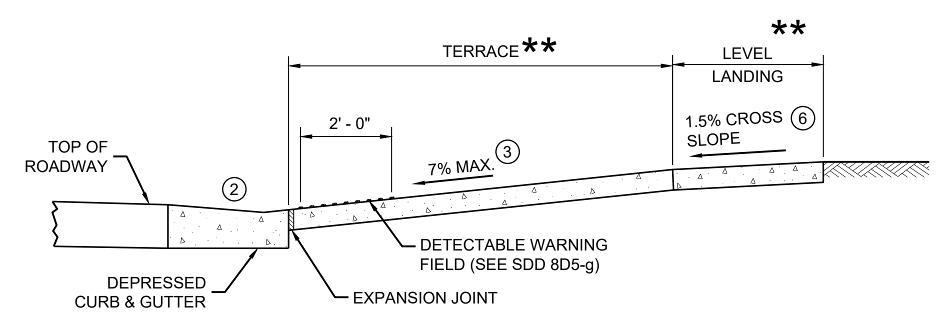
++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

LEGEND

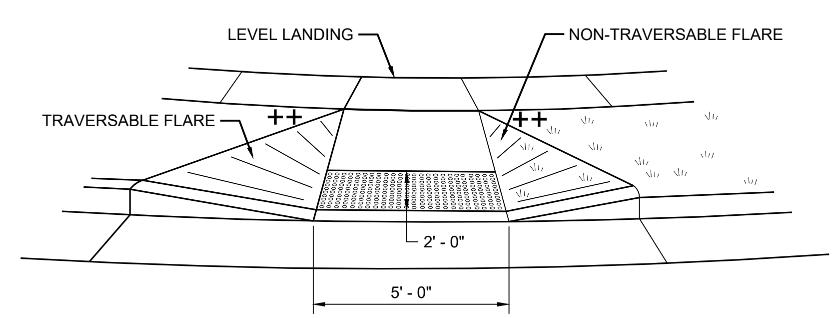
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION B - B FOR TYPE 3



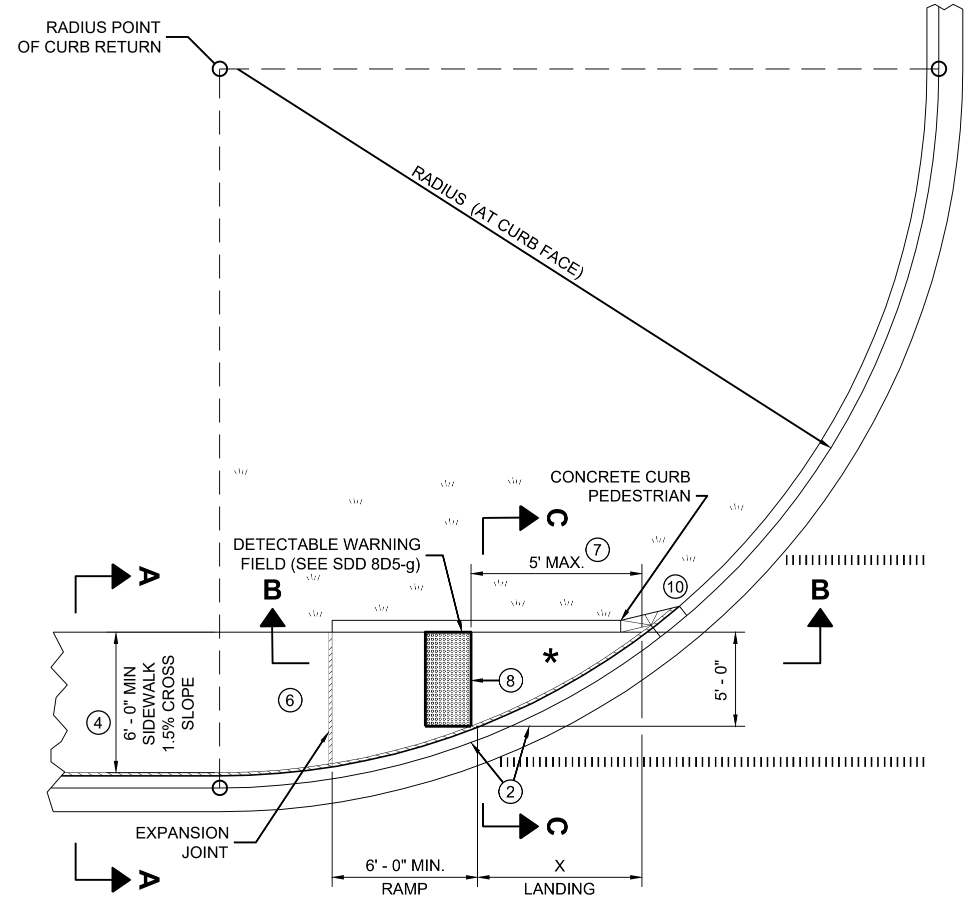
VIEW C - C FOR TYPE 3

CURB RAMPS
TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05-21b

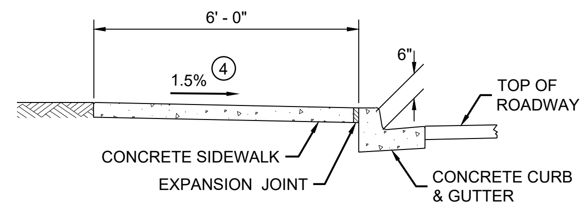


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

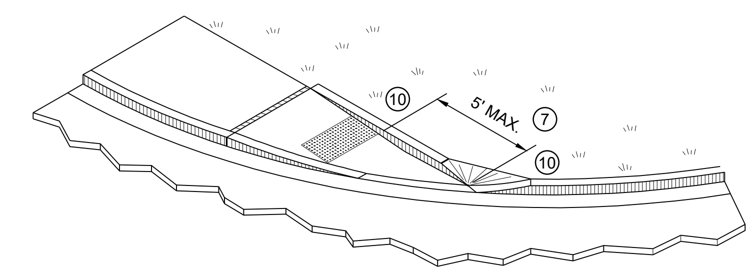
LEGEND

½" EXPANSION JOINT SIDEWALK

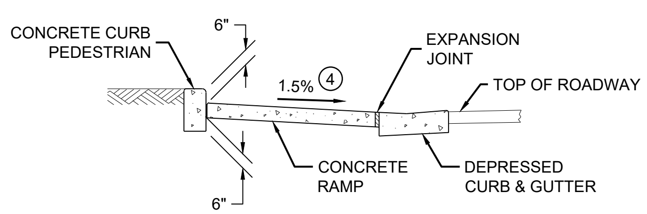
CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)

6

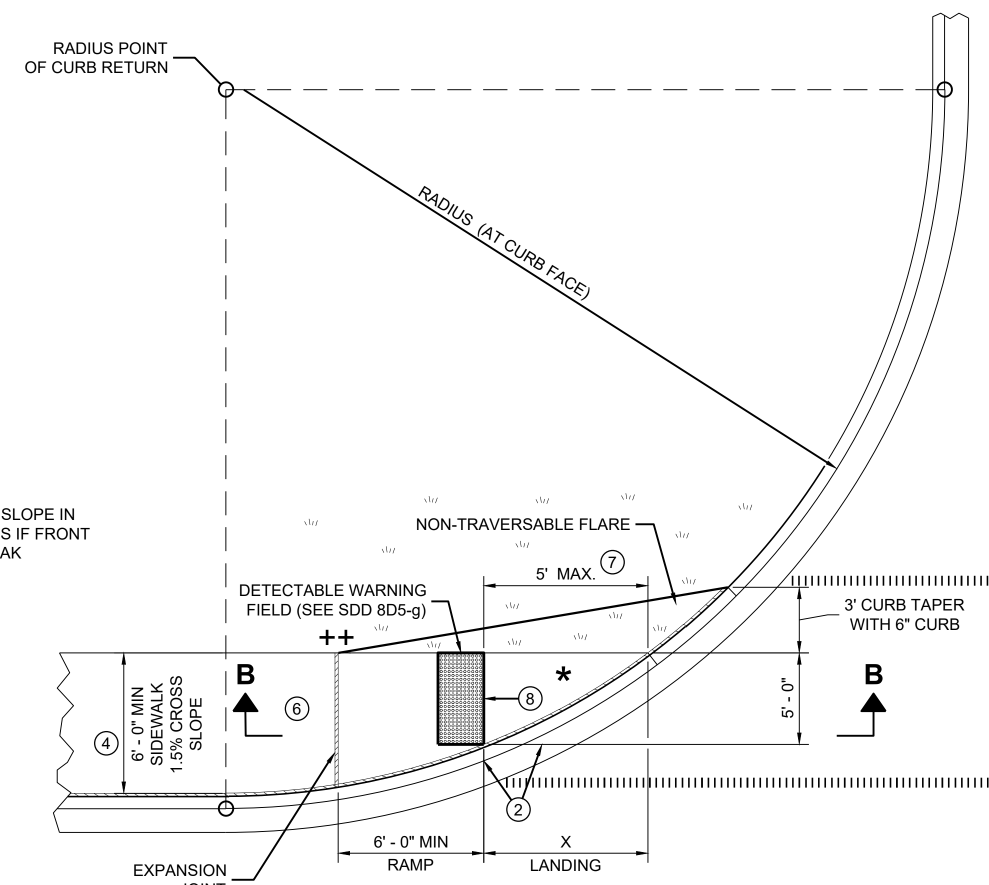


ISOMETRIC VIEW FOR TYPE 4A



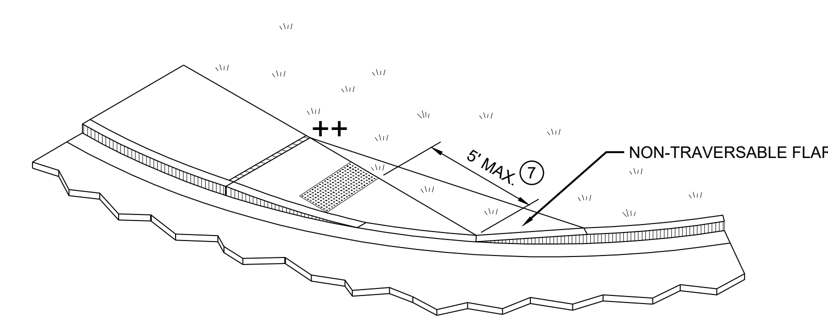
SECTION C - C FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

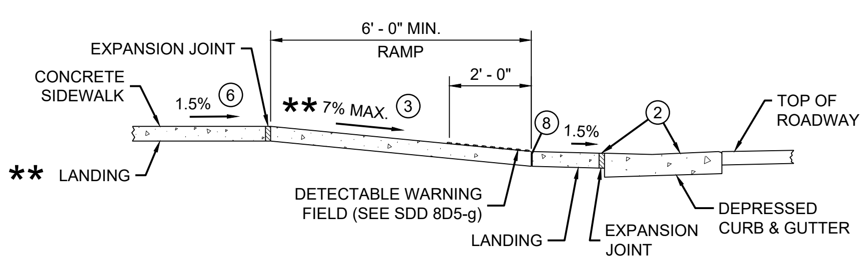


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A1



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B - B FOR TYPE 4A AND TYPE 4A1

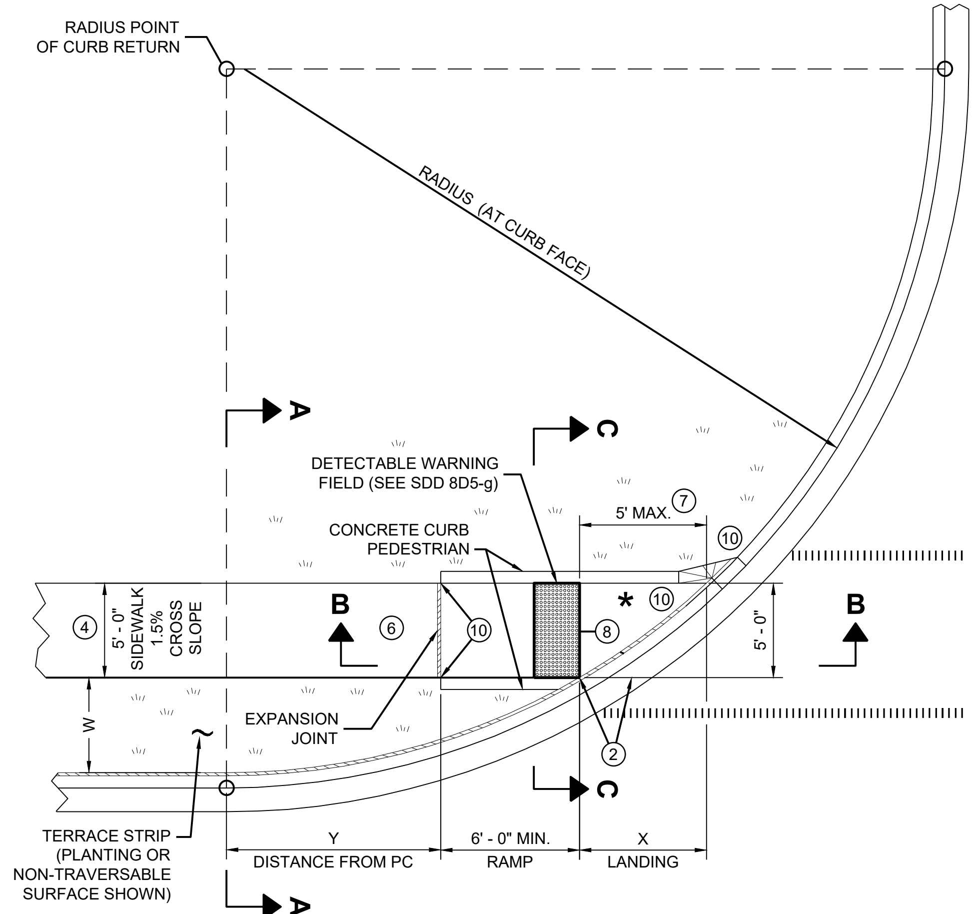
++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05-21c

6



PLAN VIEW
CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET			4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET									4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET															4' - 10 ¾"	19' - 8 ¼"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

½" EXPANSION JOINT SIDEWALK
CONTRACTION JOINT SIDEWALK
PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

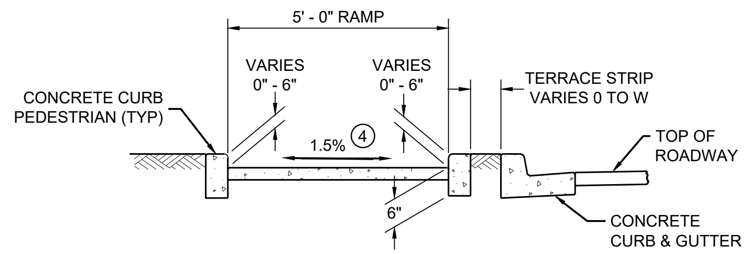
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

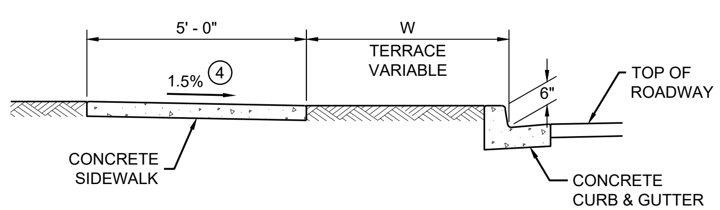
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

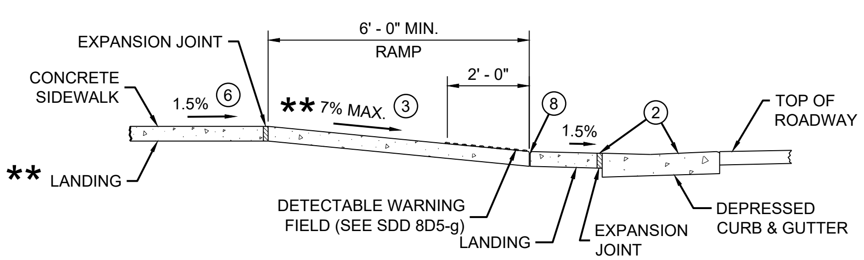


SECTION C - C FOR TYPE 4B



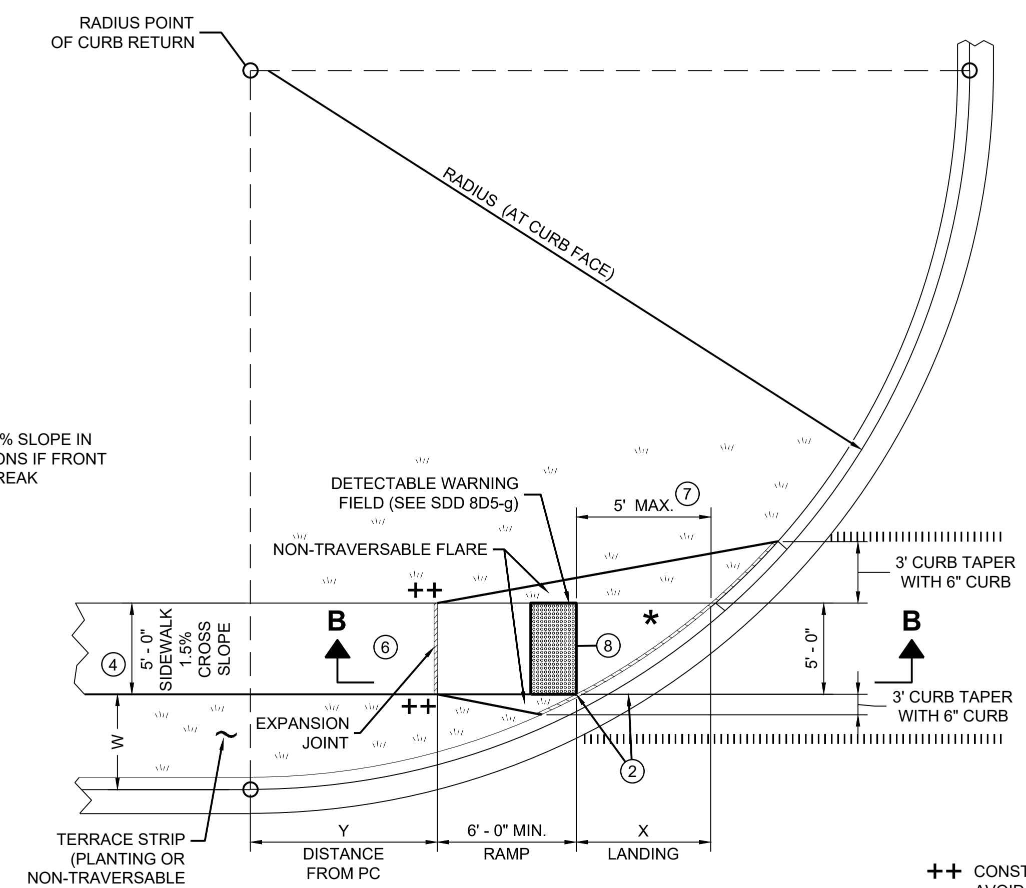
SECTION A - A FOR TYPE 4B

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



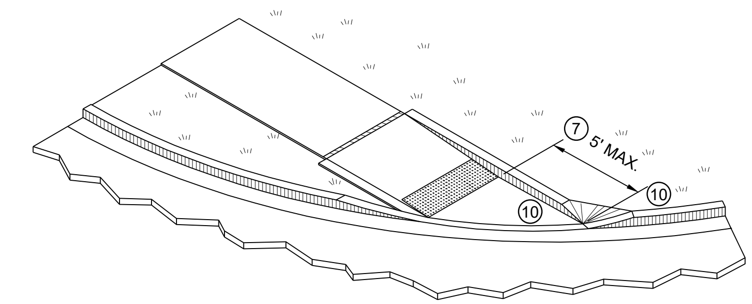
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B - B FOR TYPE 4B AND TYPE 4B1

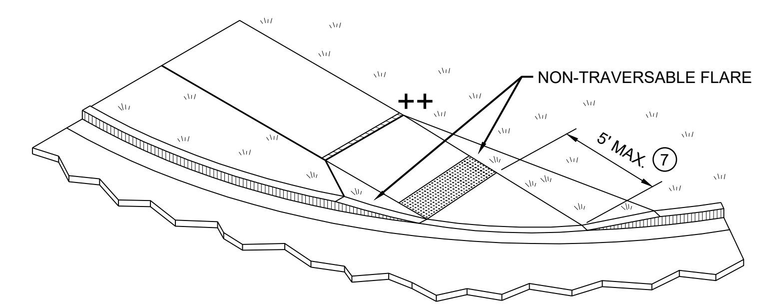


++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

PLAN VIEW
CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

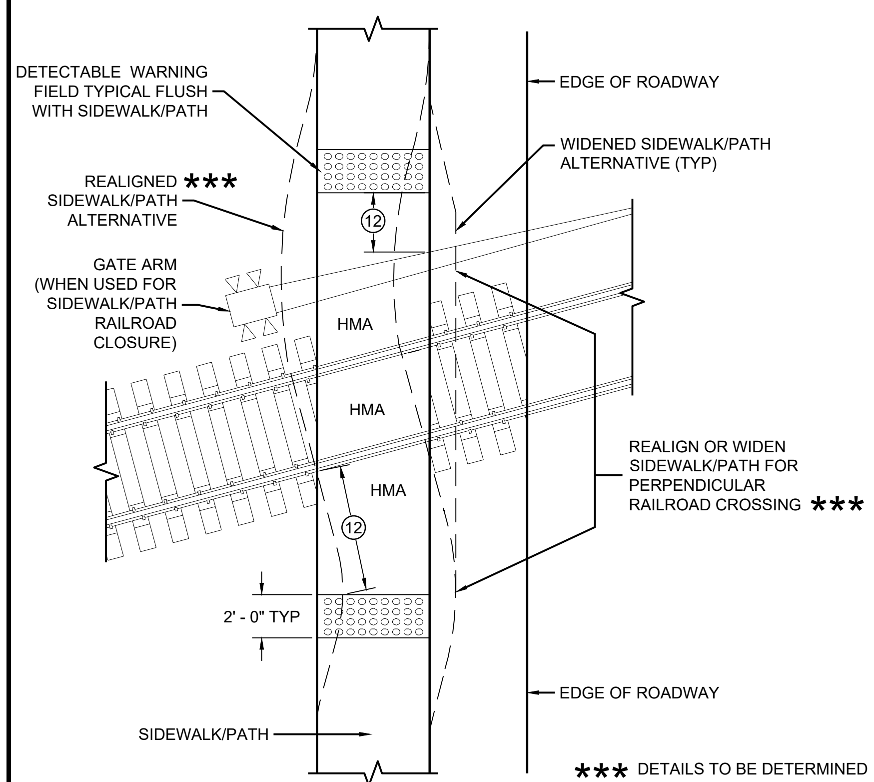
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

SDD 08D05-21d

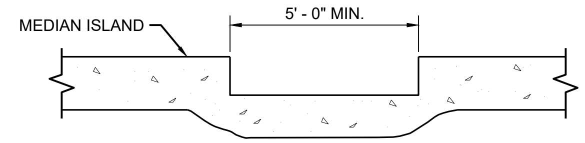
6

SDD 08D05-21d

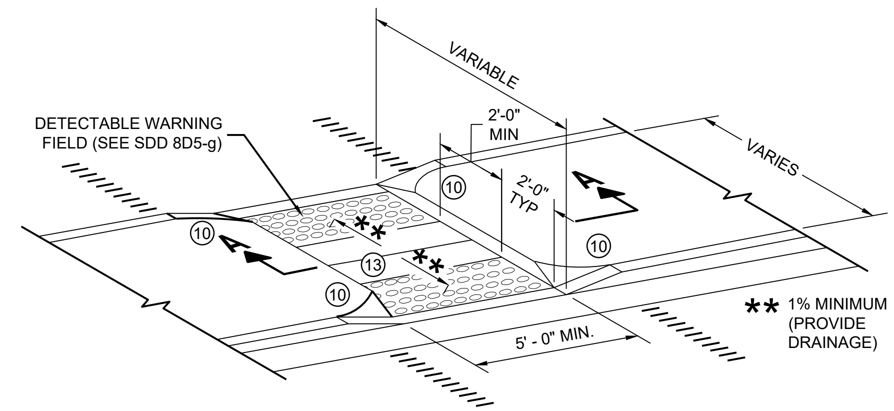


CURB RAMP TYPE 8

DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.

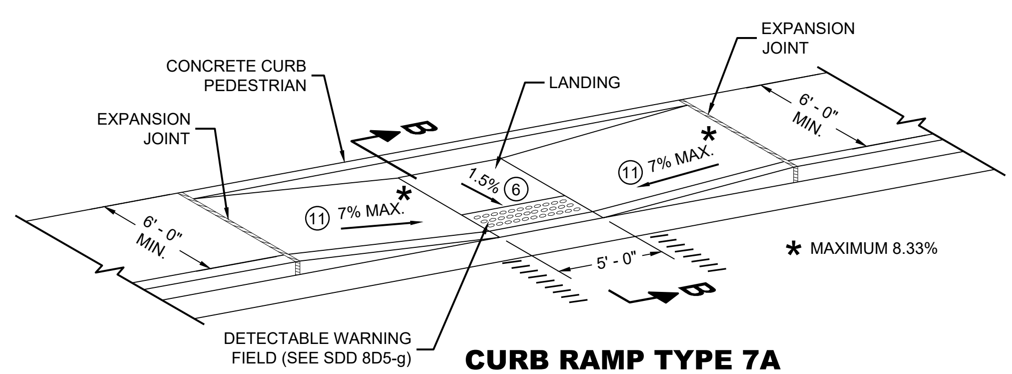
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

½" EXPANSION JOINT SIDEWALK

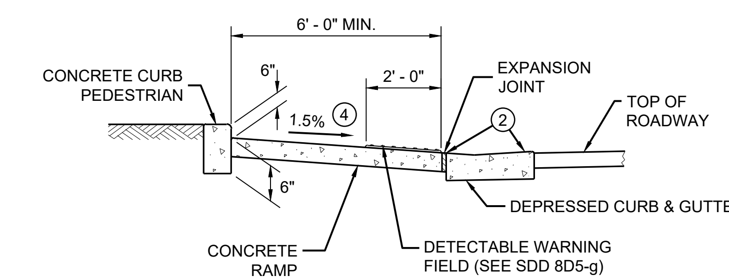
CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

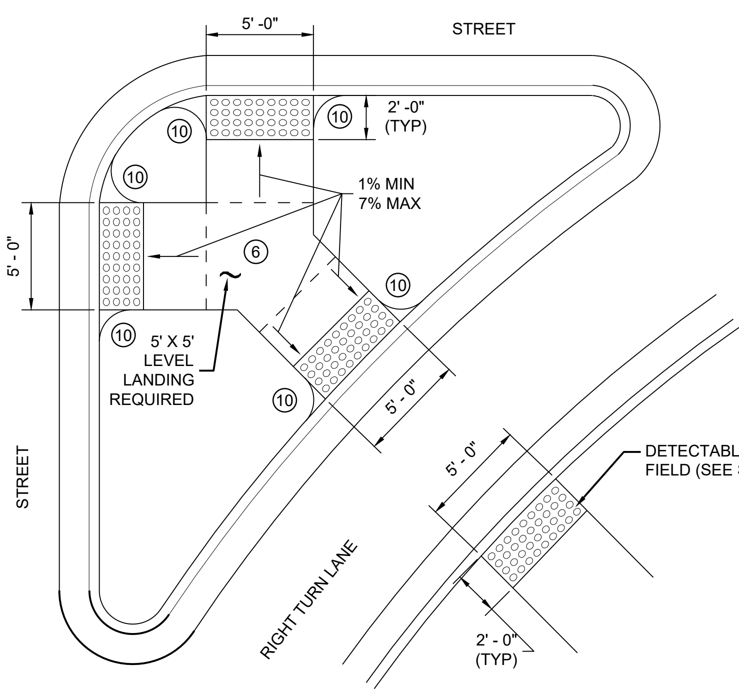


CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS



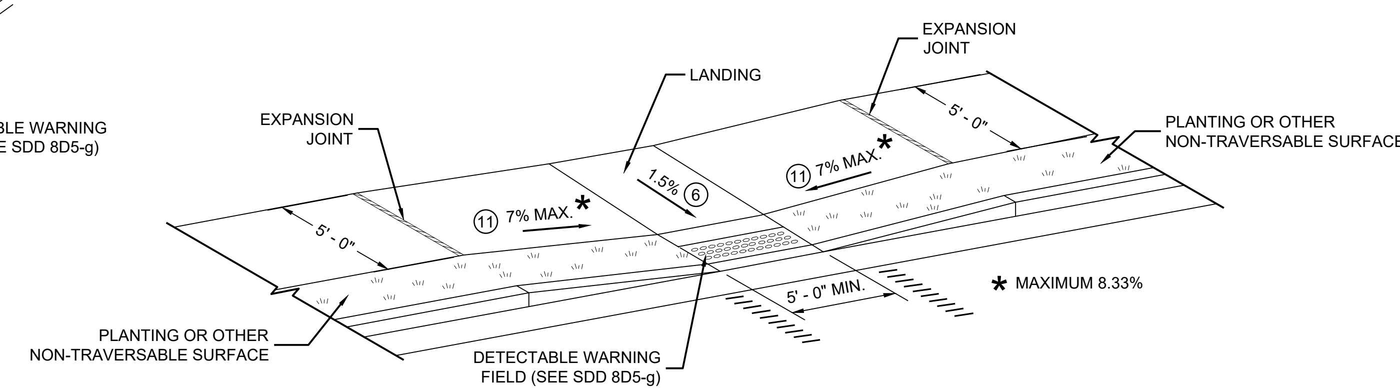
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS

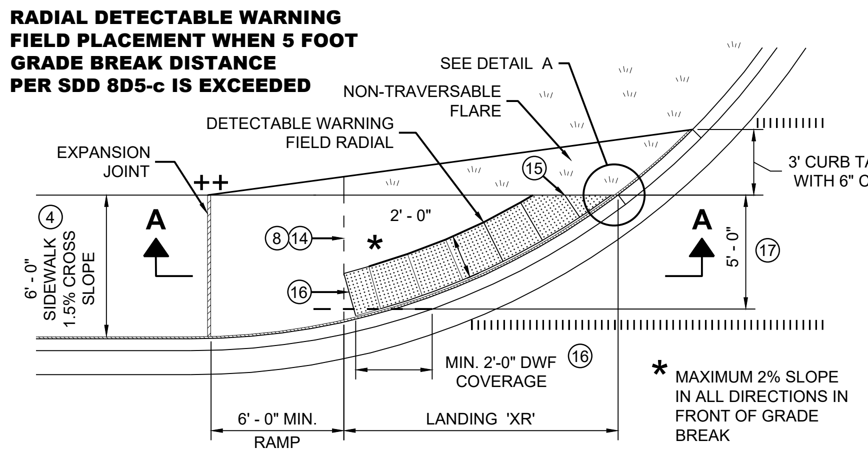


CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

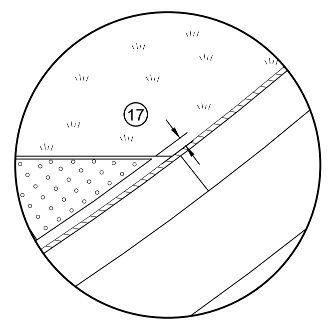
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

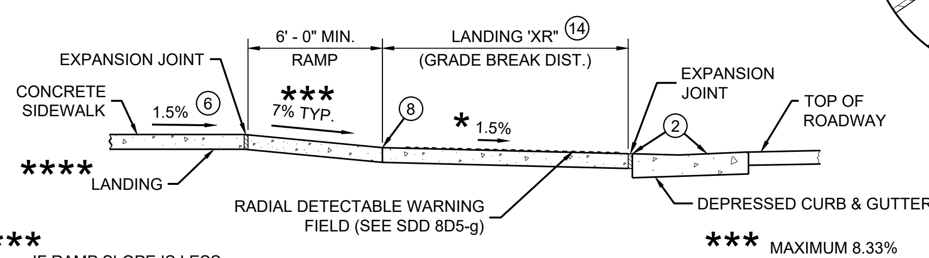
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



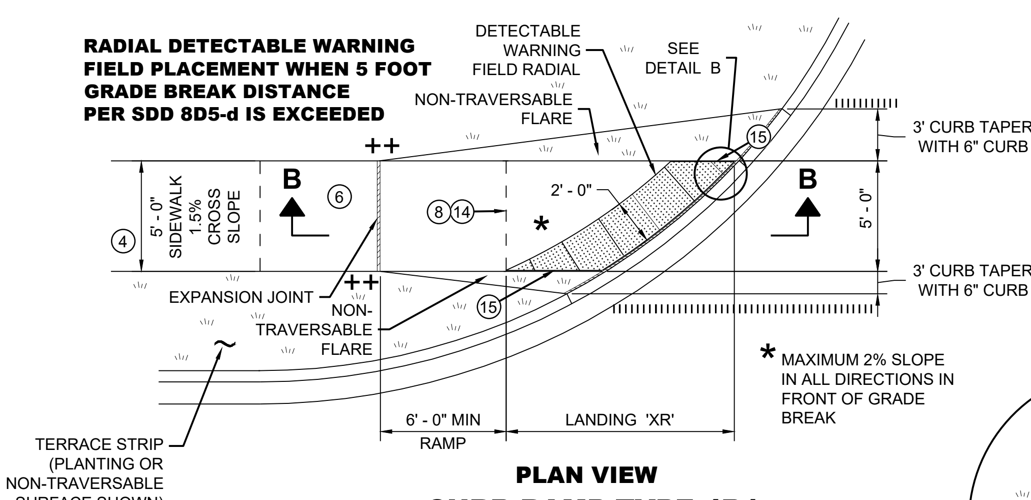
DETAIL A



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

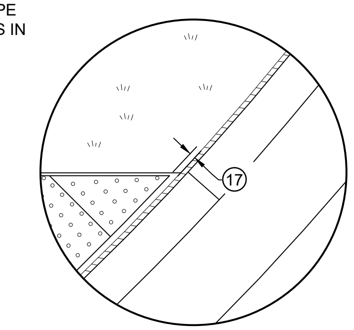
SECTION A - A FOR TYPE 4A1



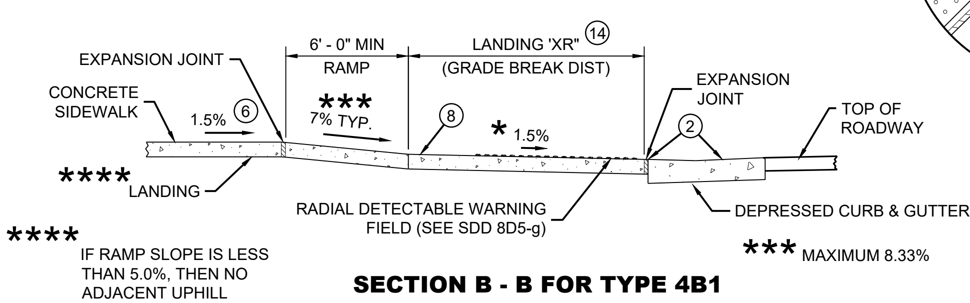
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



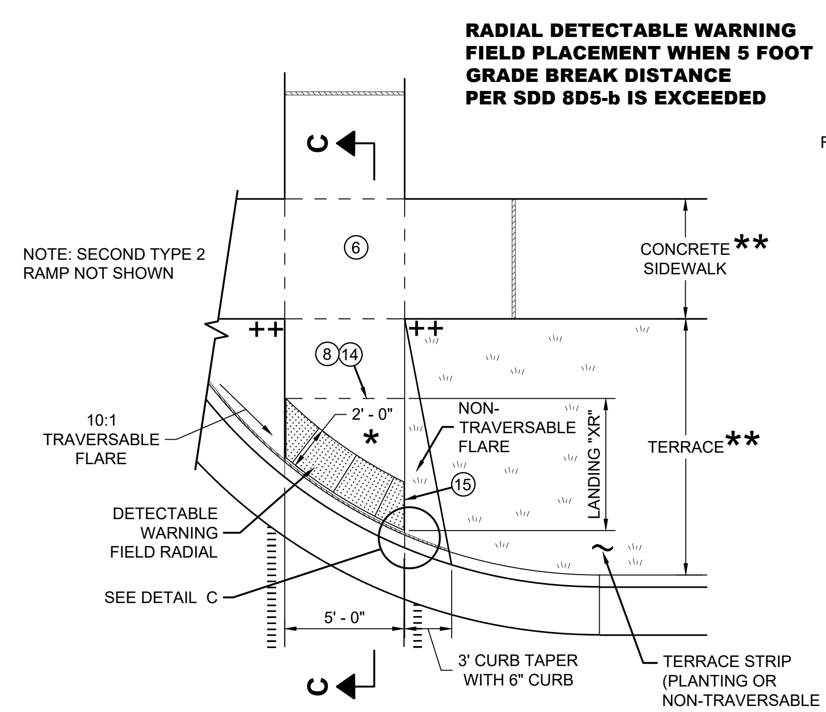
DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

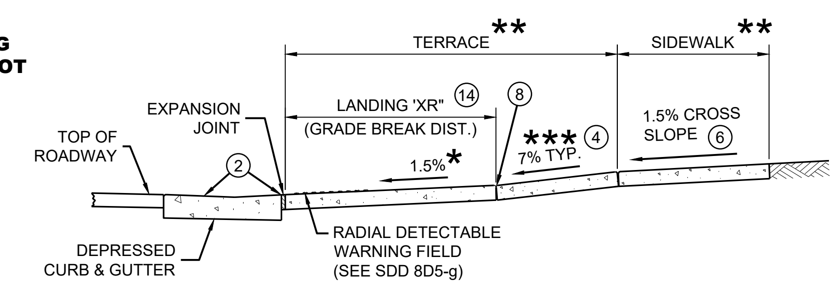


PLAN VIEW

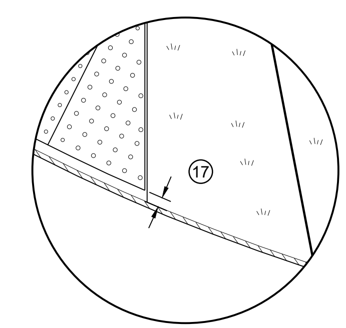
CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)



SECTION C - C FOR TYPE 2



DETAIL C

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

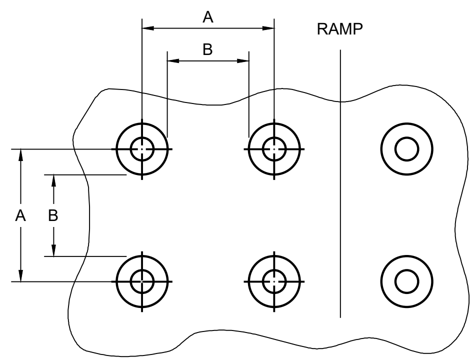
CURB RAMPS
RADIAL DETECTABLE WARNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

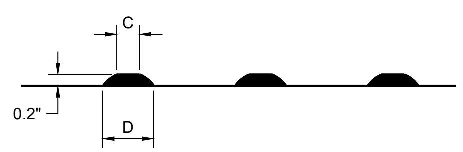
6

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

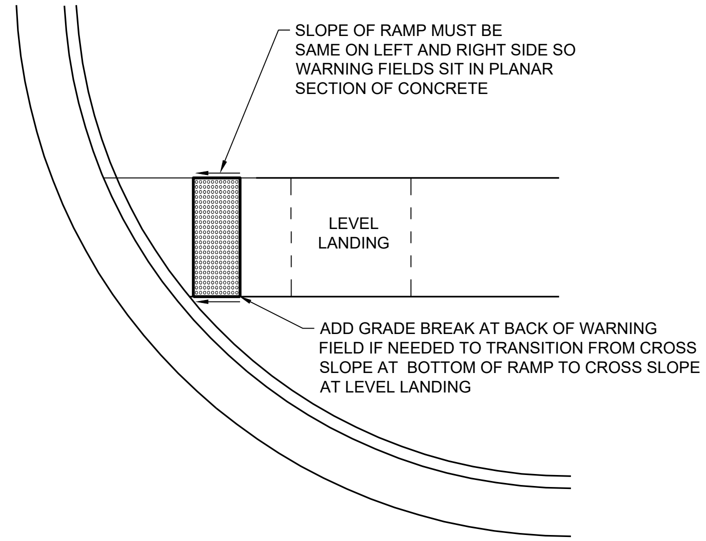


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

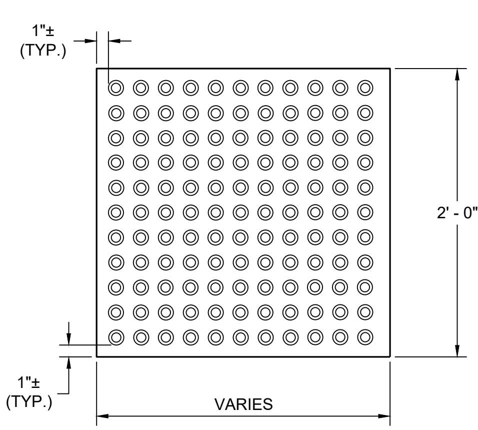
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

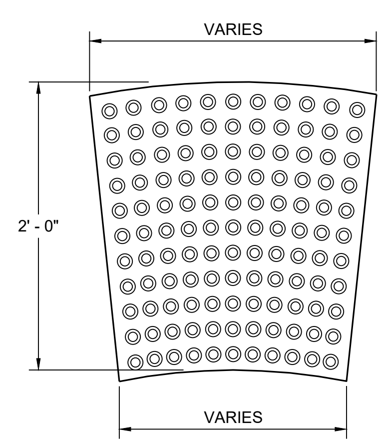
DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

15 FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

6

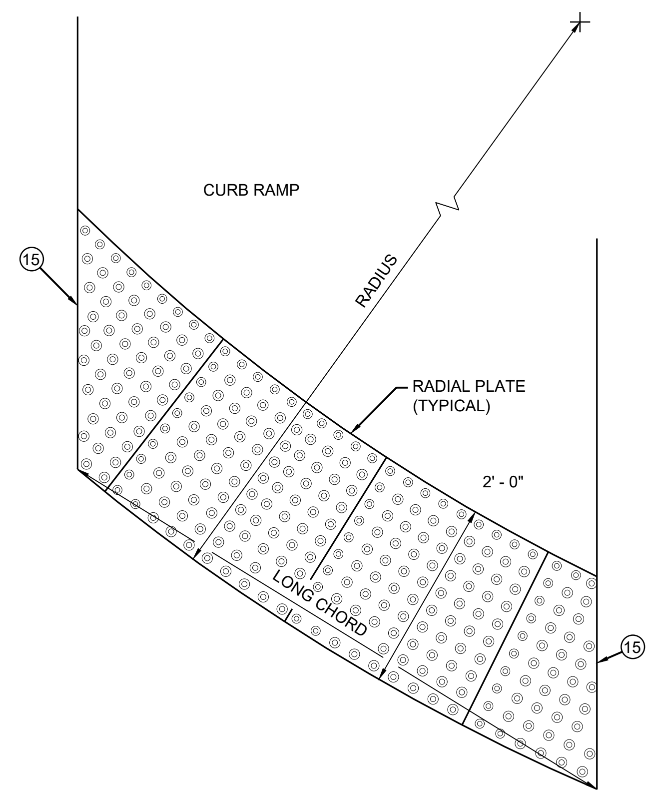


RECTANGULAR PLATES

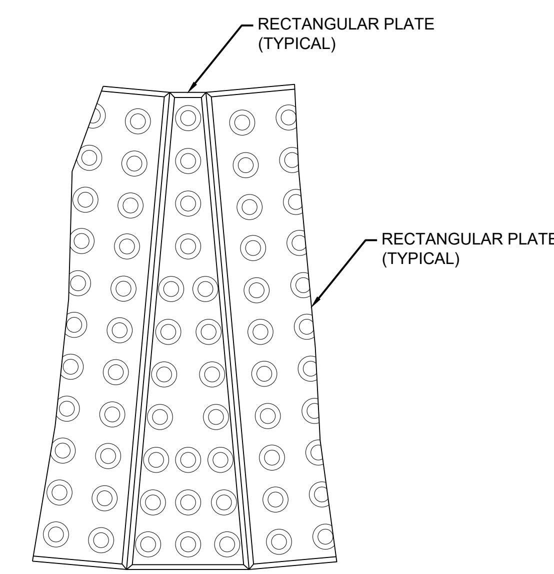


RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

6

SDD 08D05-21g

CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED July 2023 DATE — /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

SDD 08D05-21g

GENERAL NOTES

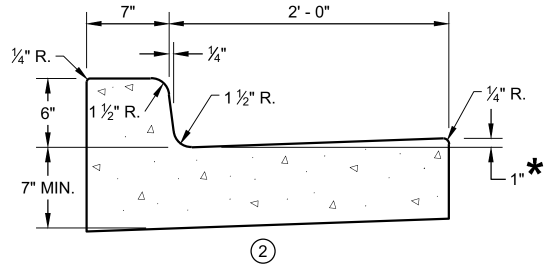
DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

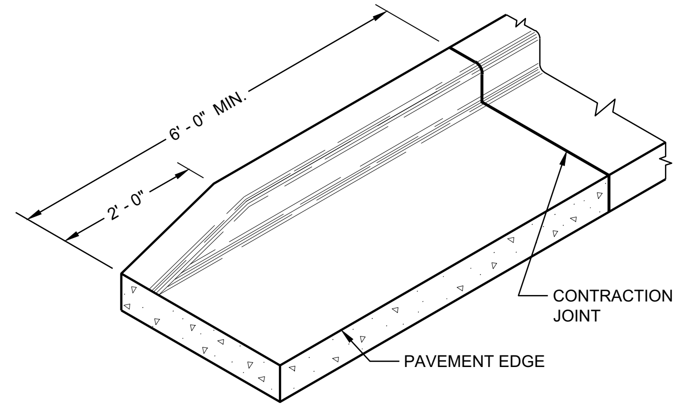
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

1. WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.
3. WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS

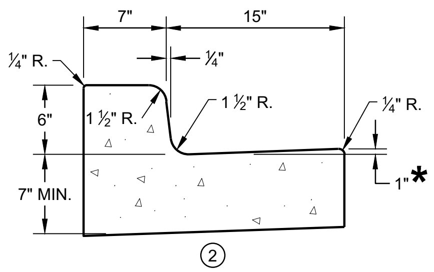


CONCRETE CURB AND GUTTER 31" (1)

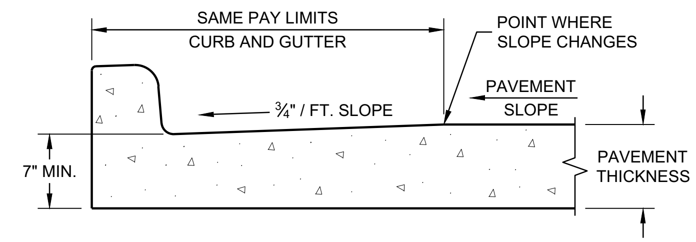
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



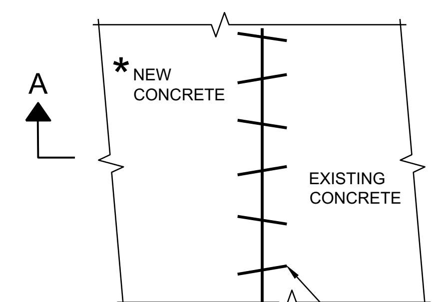
END SECTIONCURB AND GUTTER



CONCRETE CURB AND GUTTER 22" (1)



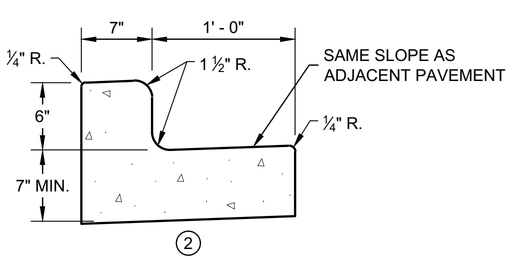
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



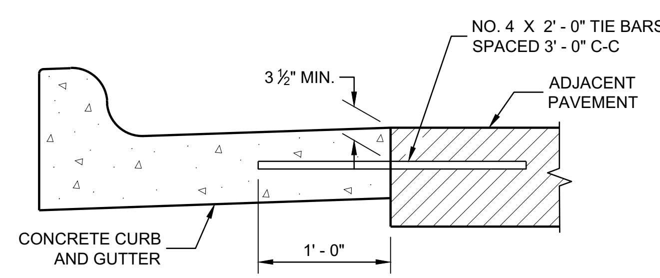
* EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.

PLAN VIEW

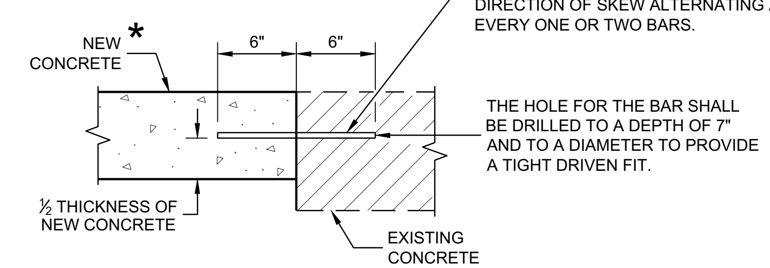
NO. 6 X 12" DEF. BARS SPACED 3' - 0" C-C, INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING AFTER EVERY ONE OR TWO BARS.



CONCRETE CURB AND GUTTER 19" (1)

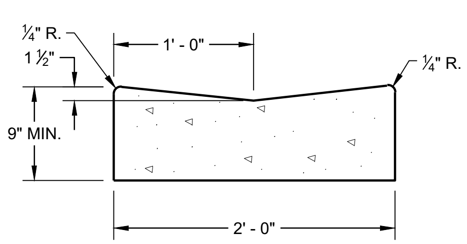


TYPICAL TIE BAR LOCATION (1)

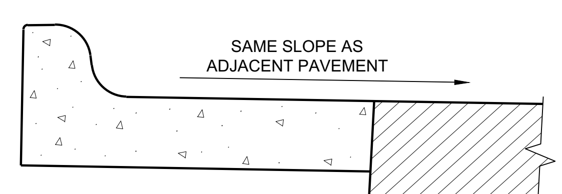


SECTION A - A

PAVEMENT TIES



CONCRETE GUTTER 24" (1)



HIGH SIDE SECTION (3)

(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020 — DATE

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT ENGINEER

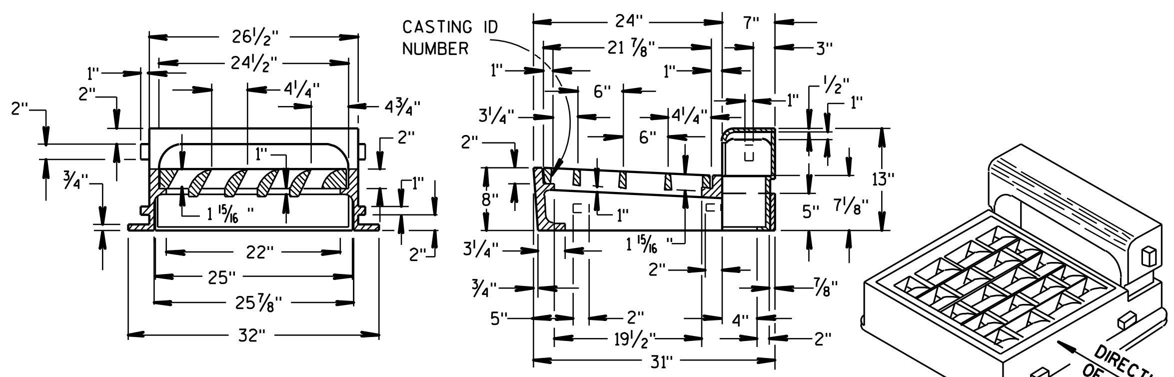
FHWA

96

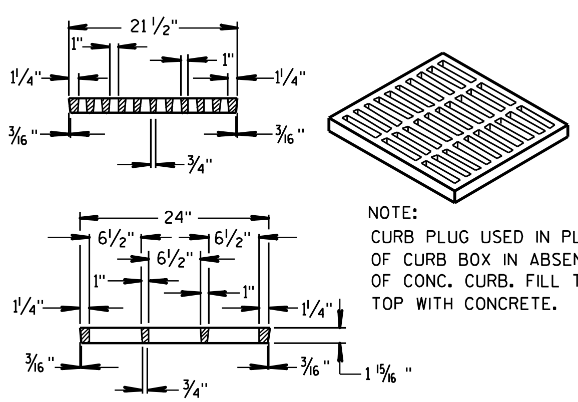
6

SDD 08D16 - 11

INLET COVERS



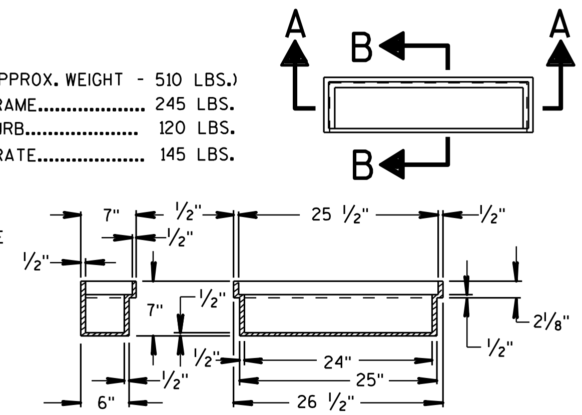
TYPE "R"
SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



(APPROX. WEIGHT - 510 LBS.)
FRAME.................. 245 LBS.
CURB................... 120 LBS.
GRATE.................. 145 LBS.

GRATE FOR TYPE "R" INLET COVER
(GRATE................150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

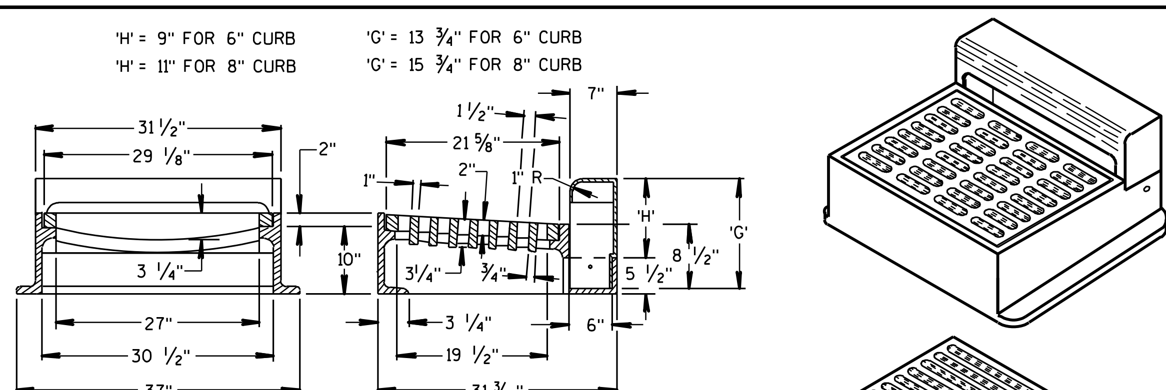
NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.



SECTION B-B SECTION A-A

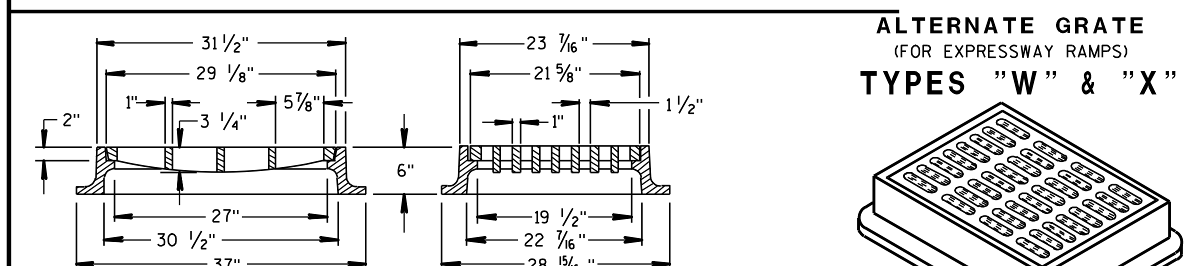
SPECIAL CURB PLUG "P"
(CURB PLUG.............85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)

'H' = 9" FOR 6" CURB
'H' = 11" FOR 8" CURB
'G' = 13 3/4" FOR 6" CURB
'G' = 15 3/4" FOR 8" CURB



TYPE "W"

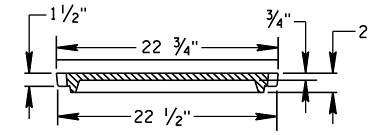
(APPROX. WEIGHT - 670 LBS.)
FRAME.................. 350 LBS.
CURB BOX............. 135 LBS.
GRATE.................. 185 LBS.



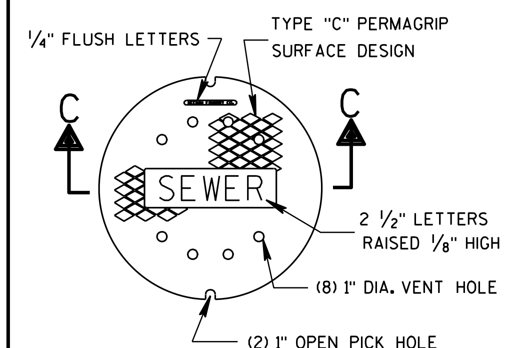
TYPE "X"
(APPROX. WEIGHT - 470 LBS.)

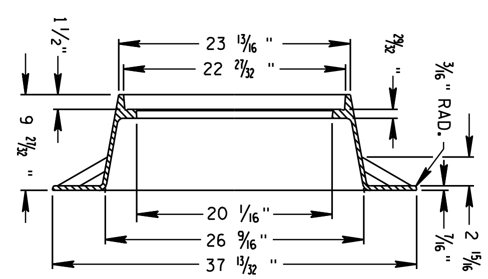
ALTERNATE GRATE
(FOR EXPRESSWAY RAMPS)
TYPES "W" & "X"

MANHOLE COVER



SECTION C-C





TYPE "Q"
(APPROX. WEIGHT - 290 LBS.)

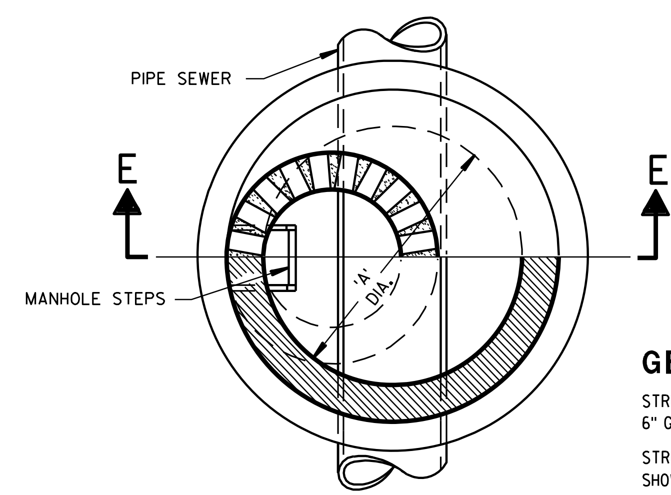
TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

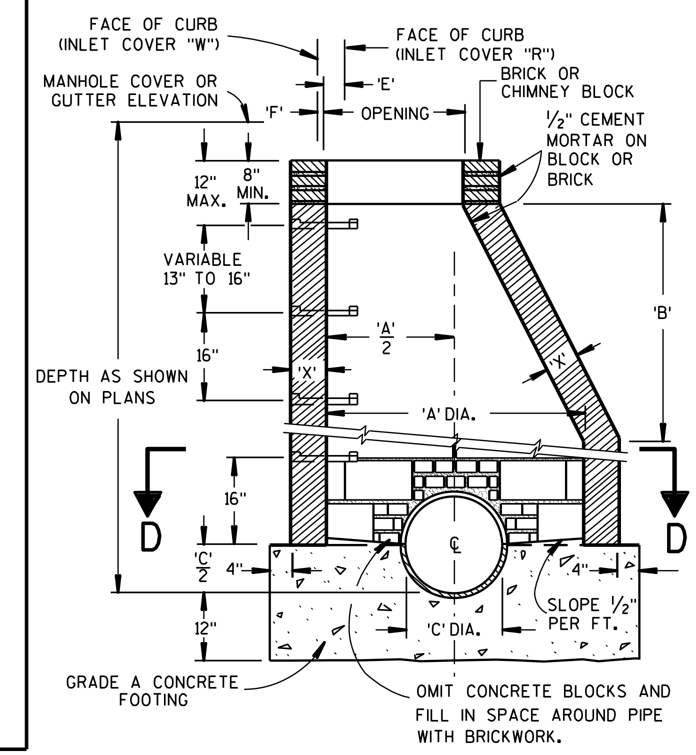
MANHOLE



HALF SECTION D-D

TABLE OF OPENING DIMENSIONS

COVER TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"Q"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—



SECTION E-E

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

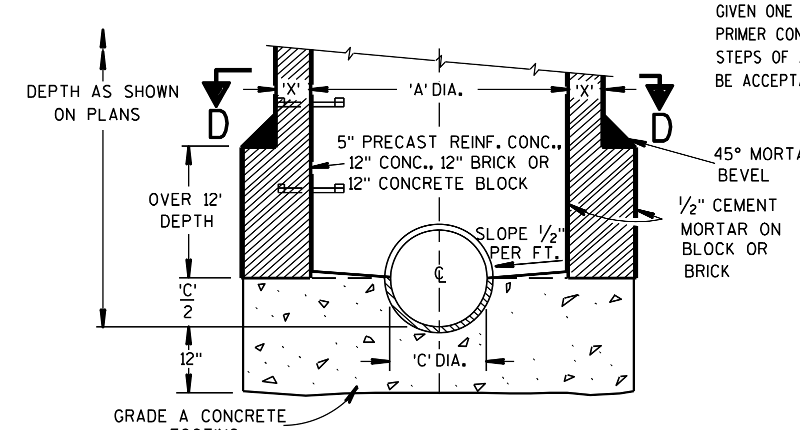
SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 3/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.



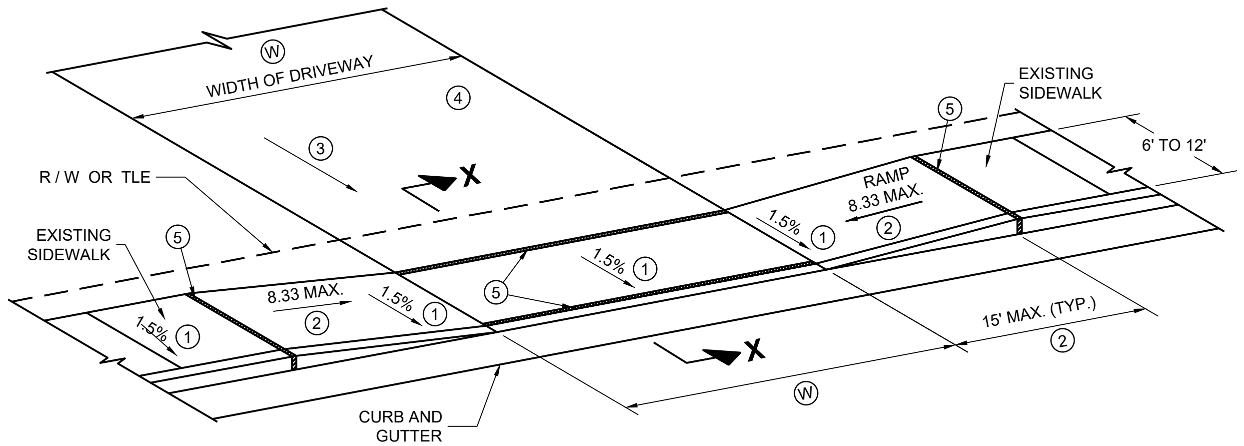
SECTION E-E

TYPES 11, 12, 13 & 14

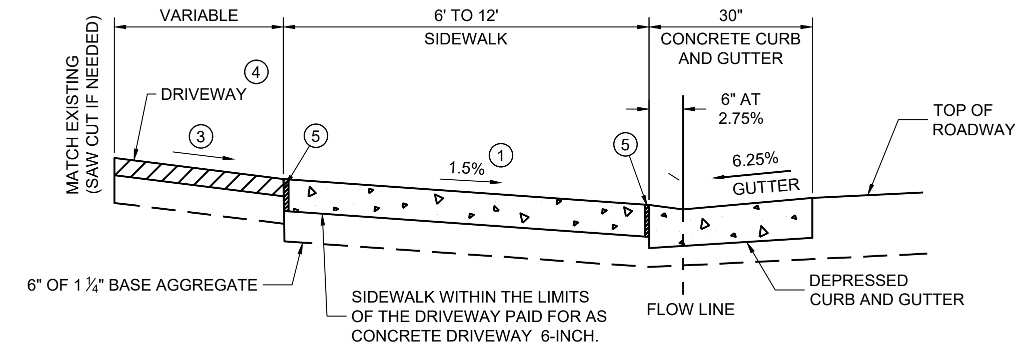
MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

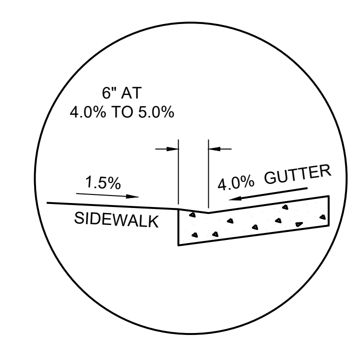
APPROVED
4/12/2011 DATE
/S/ Jerry H. Zogg
ROADSIDE STANDARDS DEVELOPMENT ENGINEER
FHWA



TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X



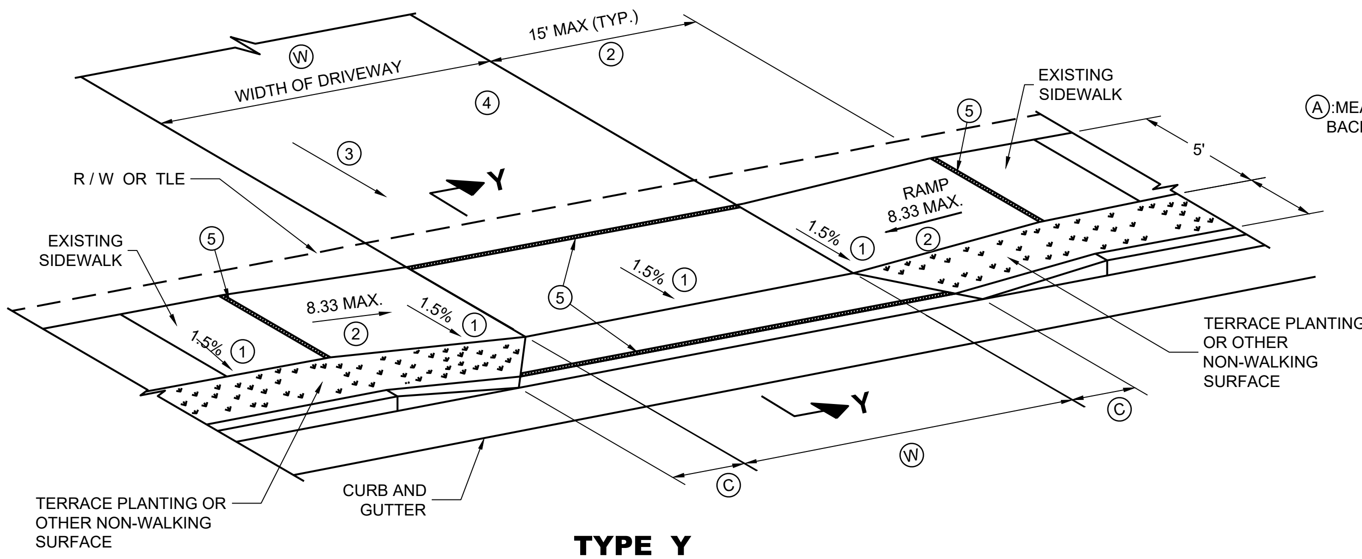
SECTION X - X
4% GUTTER SLOPE

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)	
16' MIN. - 35' MAX. COMMERCIAL (CE)	

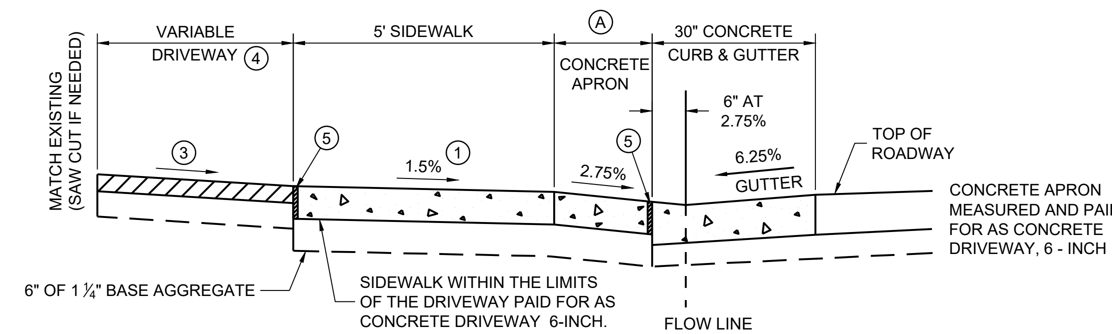
TABLE Y

A FEET	C FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

A:MEASURE FROM BACK OF CURB



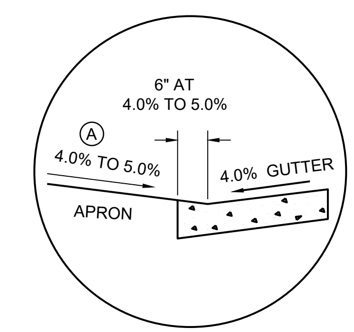
TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y - Y

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)



SECTION Y - Y
4% GUTTER SLOPE

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

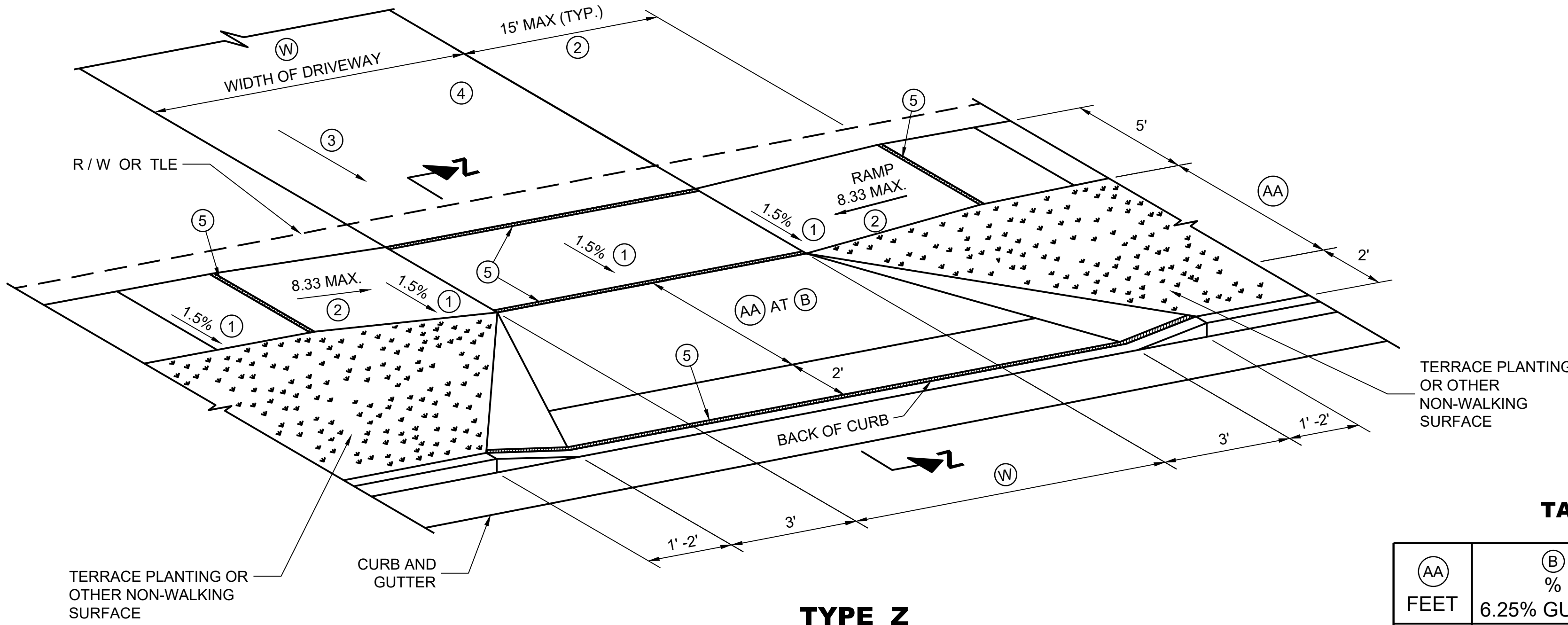
(5) ½" EXPANSION JOINT FILLER

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA



TYPE Z
SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

W IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

1 CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

2 THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

3 DRIVEWAY SLOPES: DESIRABLE MAXIMUM
10.5% UP AWAY FROM SIDEWALK (SAG)
8.5% DOWN AWAY FROM SIDEWALK (CREST)
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

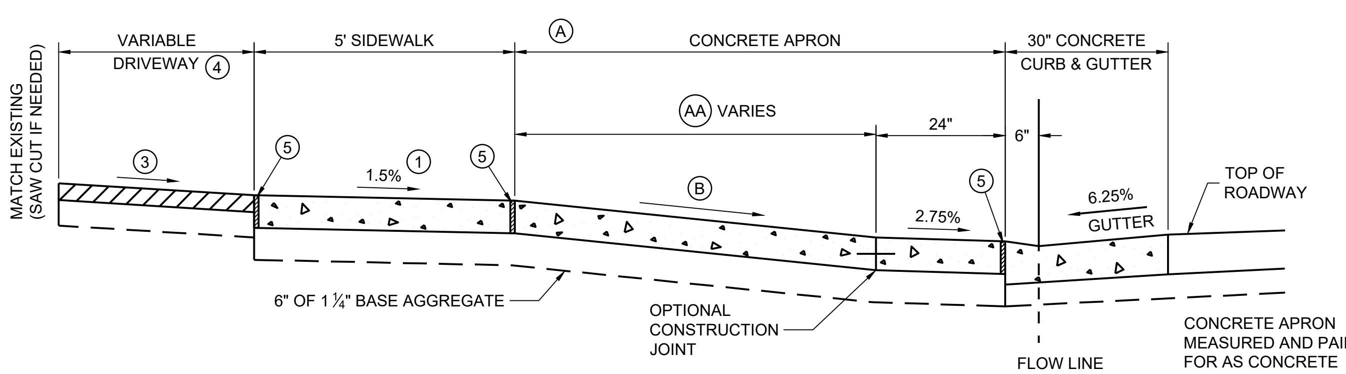
4 DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

5 ½" EXPANSION JOINT FILLER.

TABLE Z

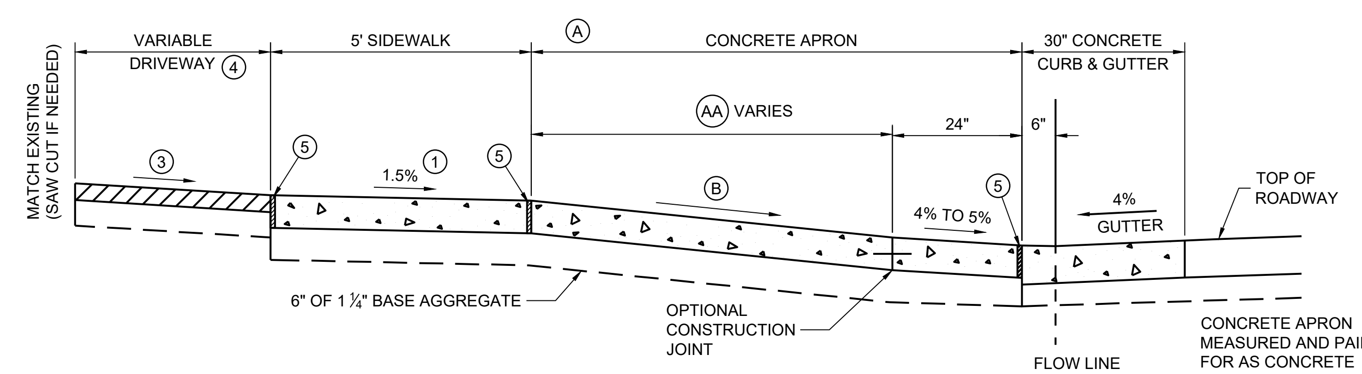
AA FEET	B % 6.25% GUTTER	B % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE AA AND B AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE AA AND B AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS FOR B VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SECTION Z - Z
DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER
(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

GENERAL NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

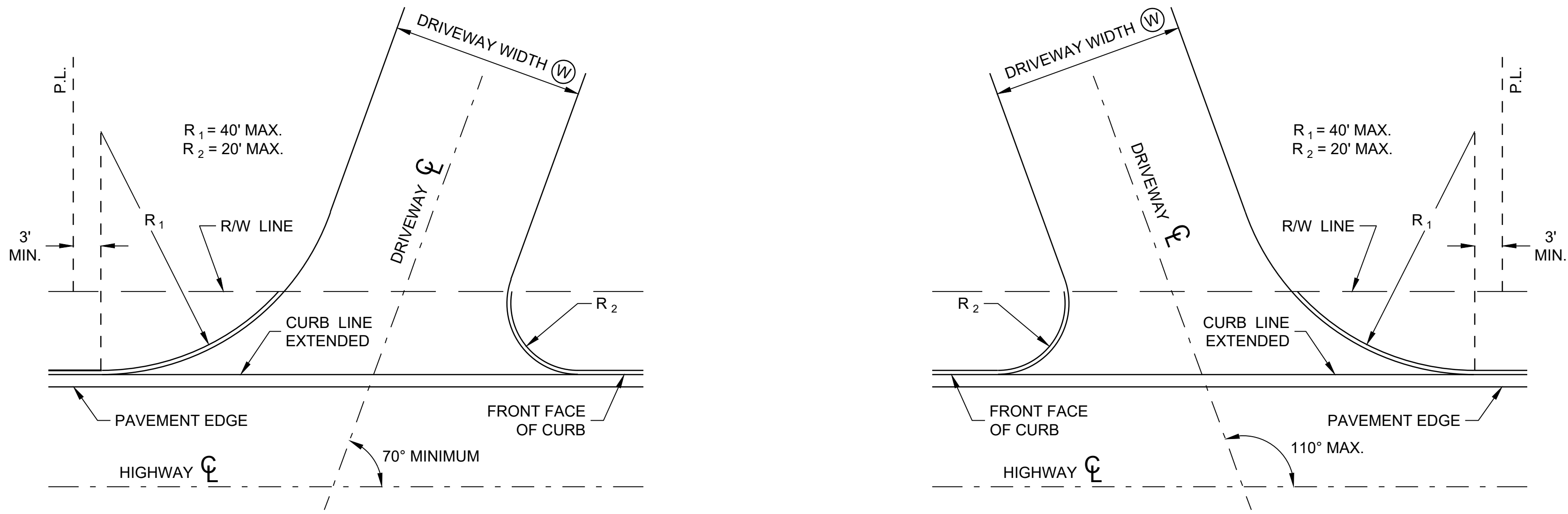
THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

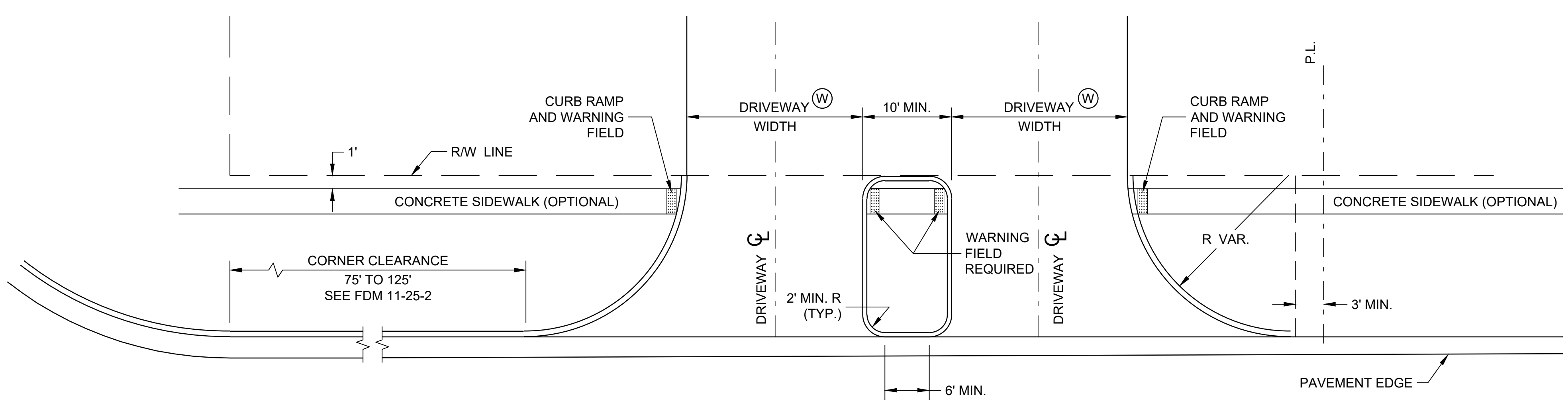
Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

DRIVEWAYS WITH CURB AND GUTTER RETURNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
00-00-00 DATE
/S/ <AUTHOR> ROADWAY STANDARDS DEVE ENGINEER
100
FHWA

SDD 08D20 - 01
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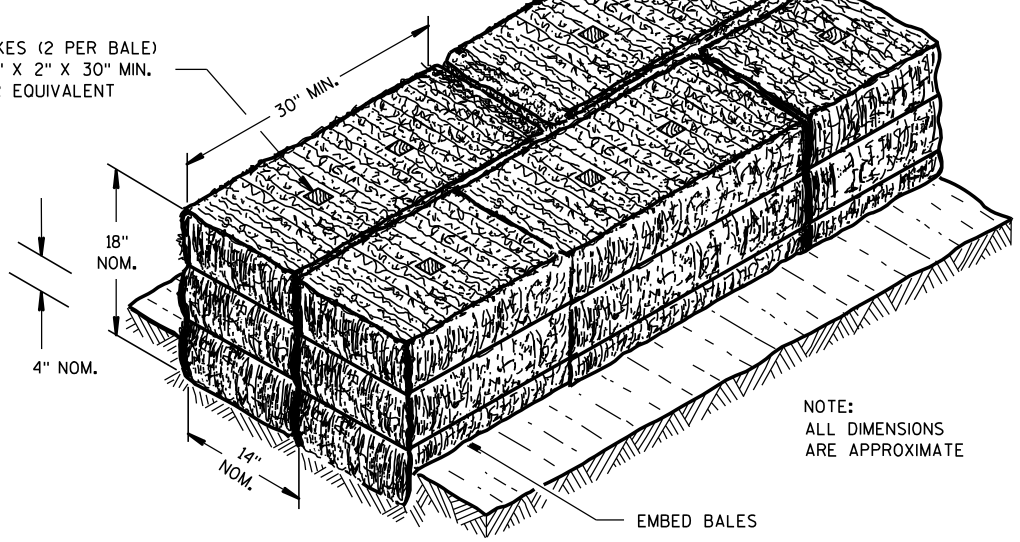
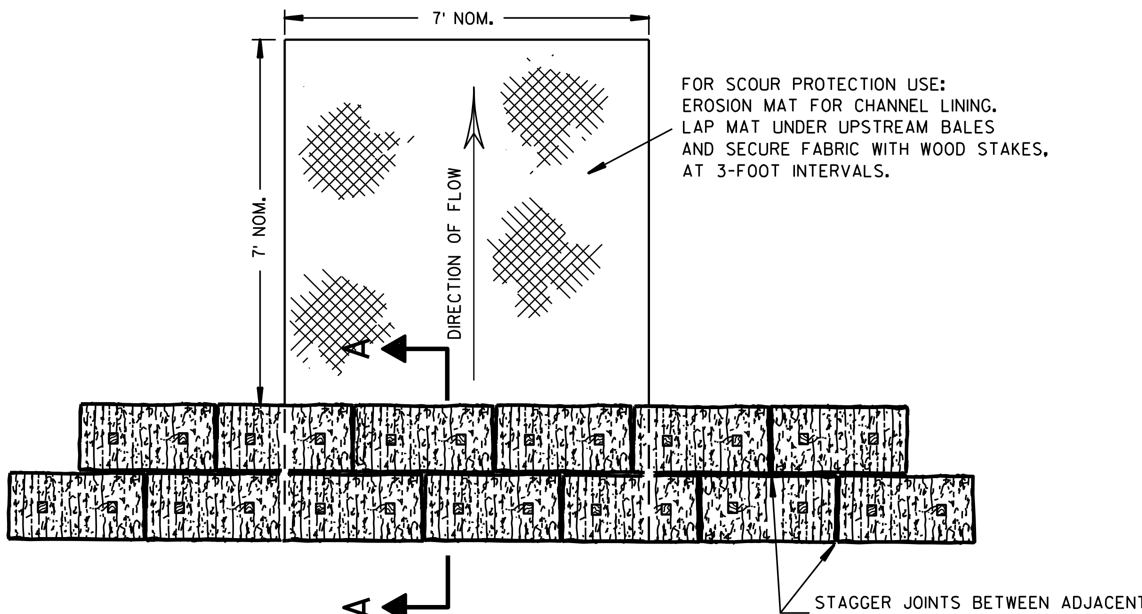
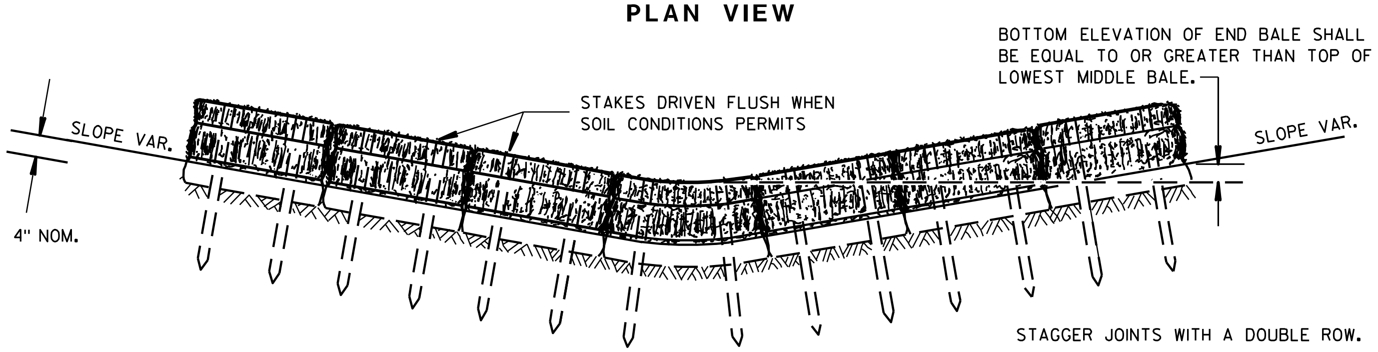


SECTION A-A



PLAN VIEW



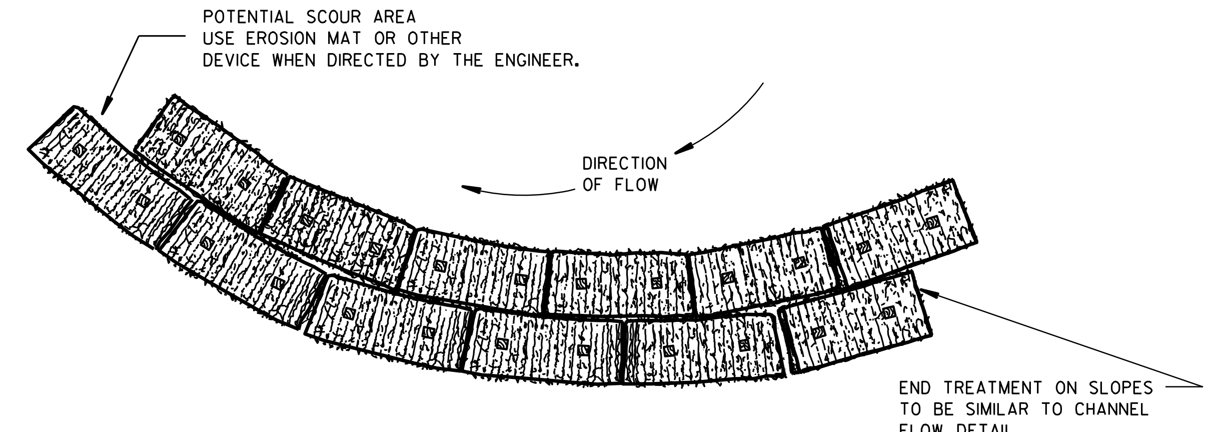
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

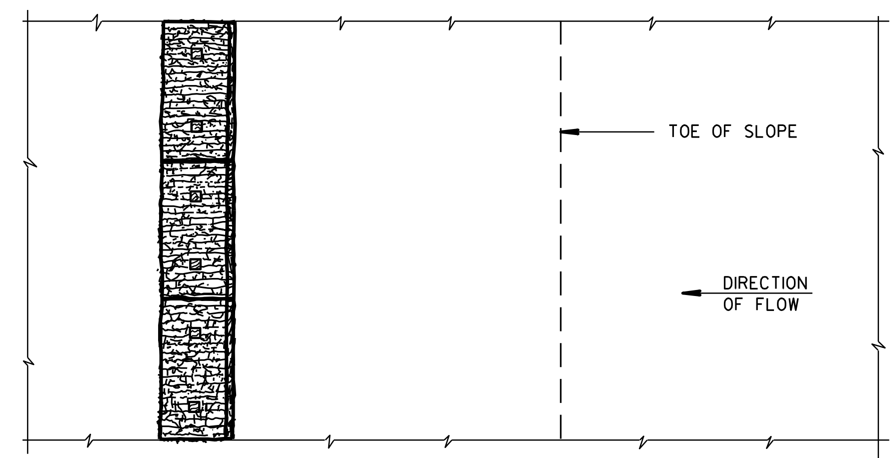
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

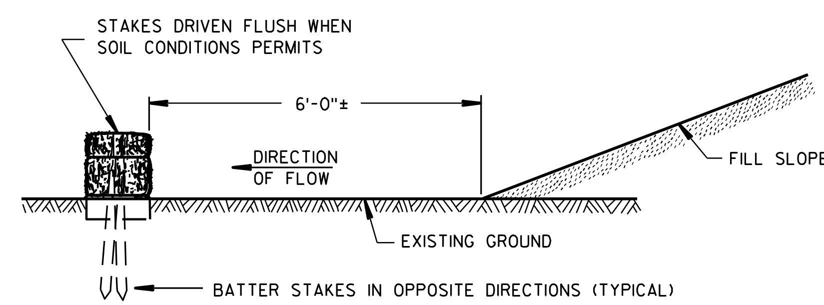


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 /S/ Beth Cann
DATE CHIEF ROADWAY DEVELOP 101 INEER
FHWA

6

6

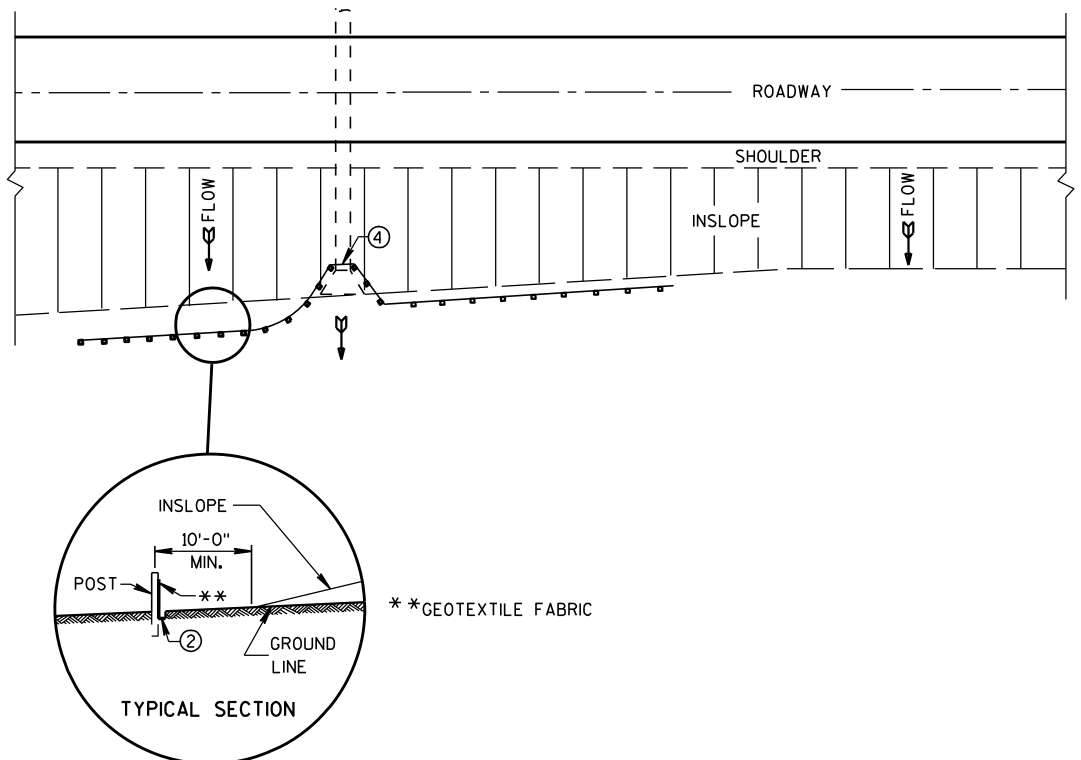
S.D.D. 8 E 8-3

S.D.D. 8 E 8-3

GENERAL NOTES

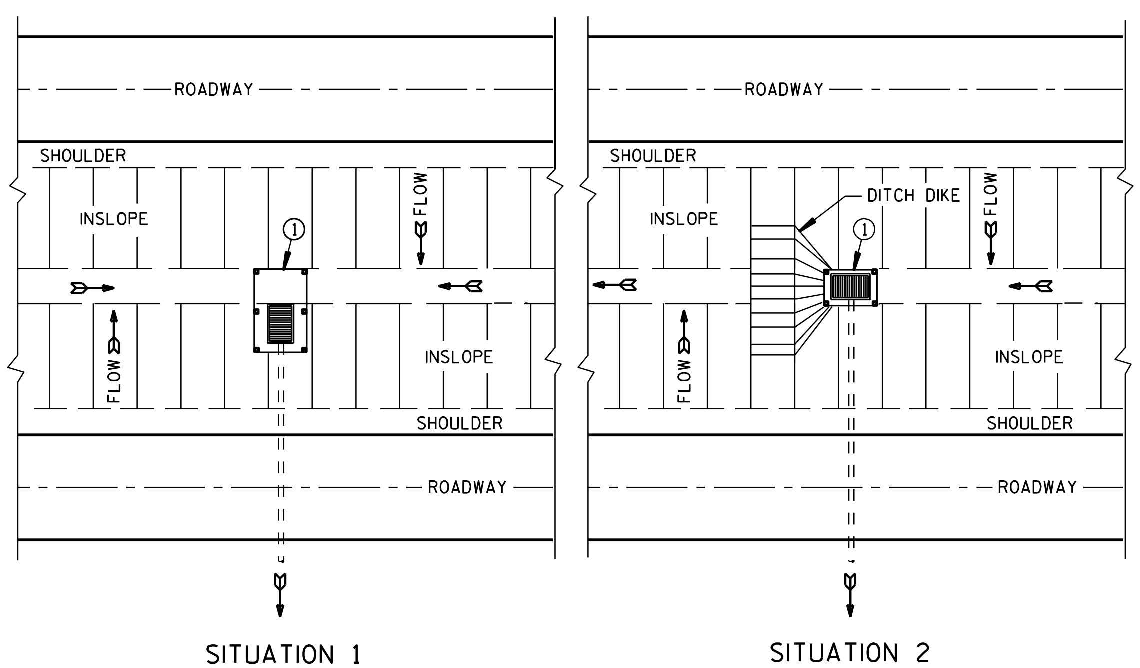
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



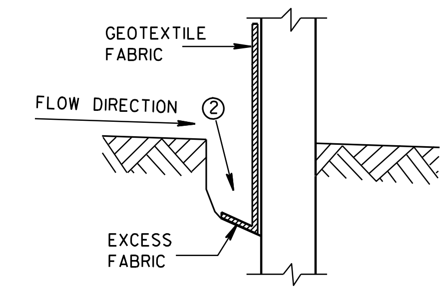
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE

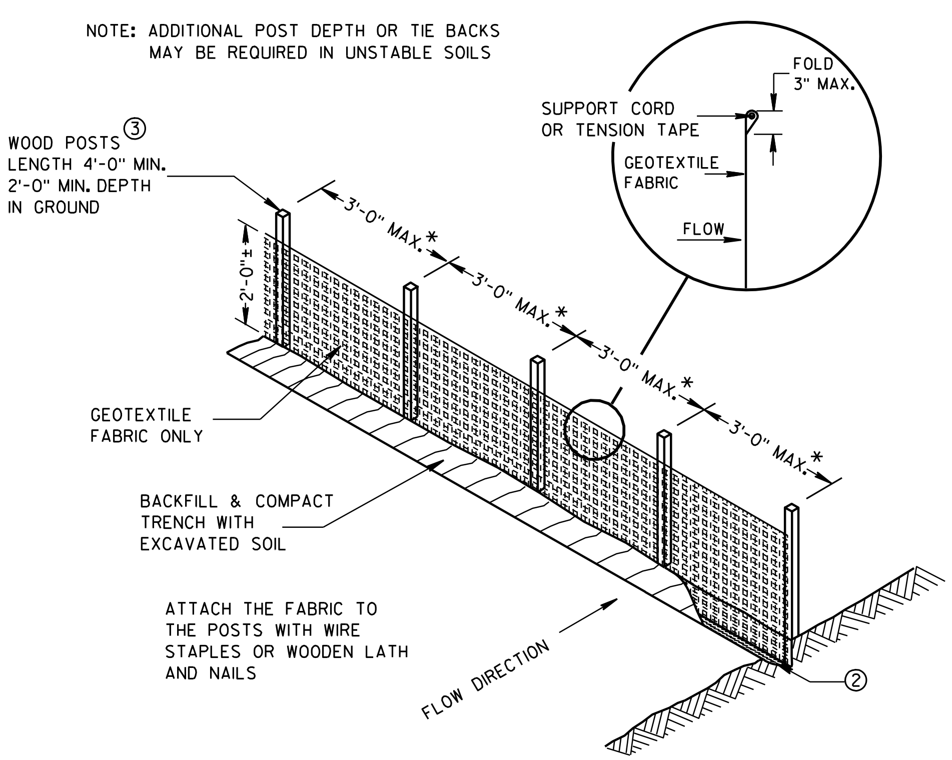


PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

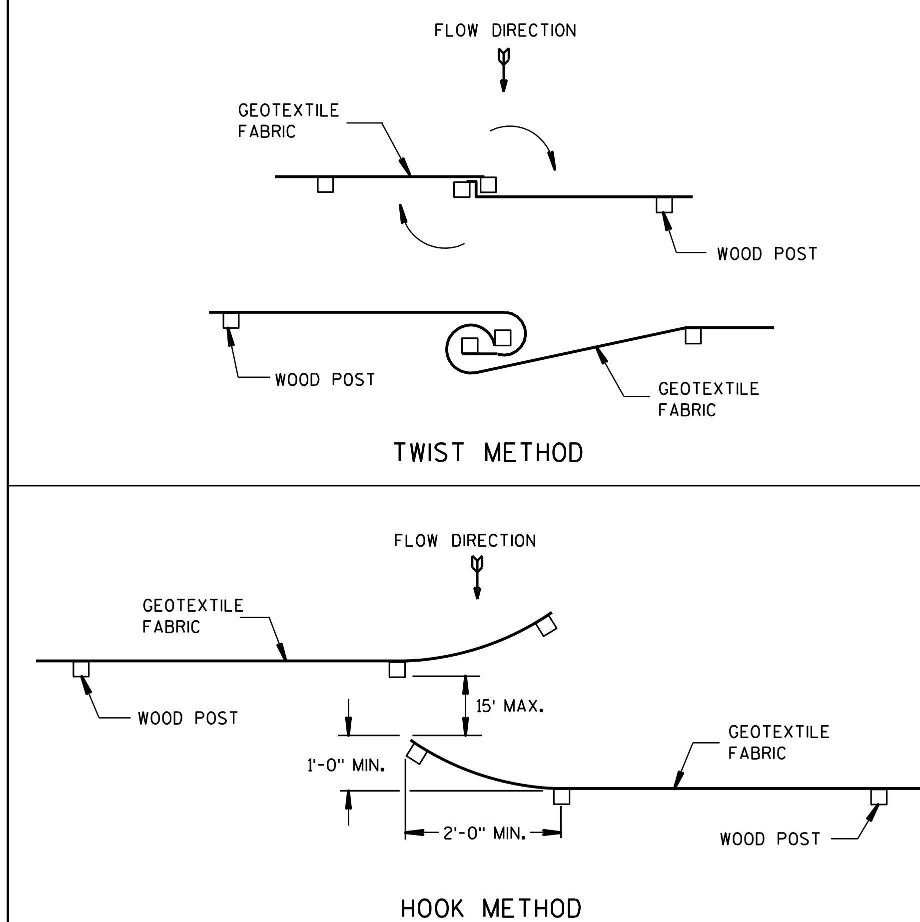


TRENCH DETAIL

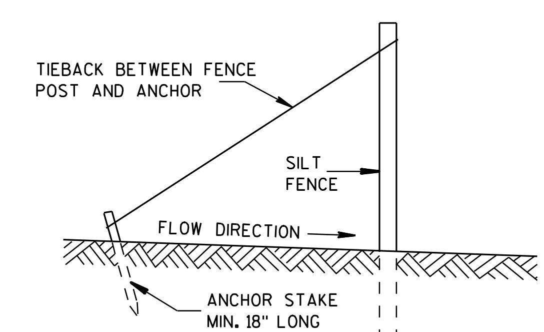


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE



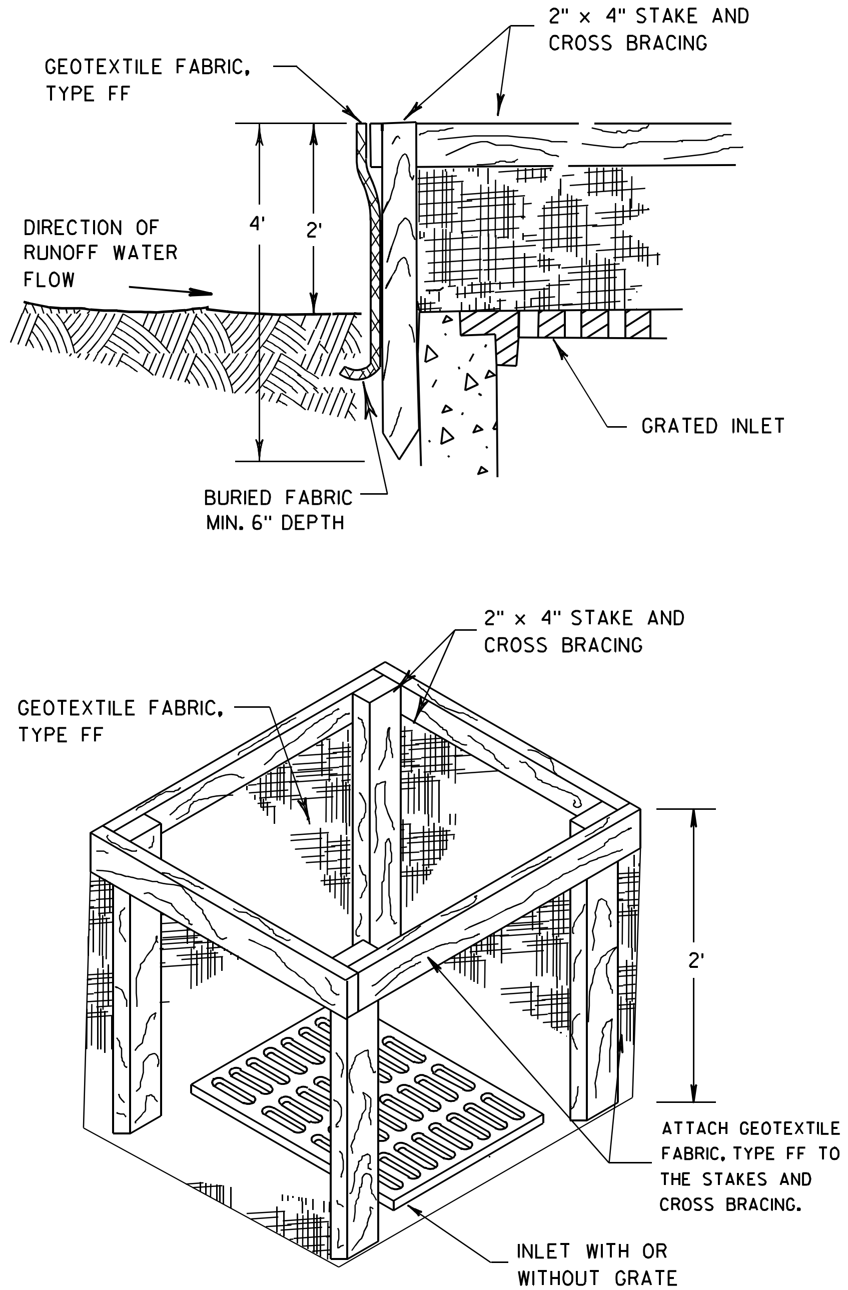
JOINING TWO LENGTHS OF SILT FENCE 5



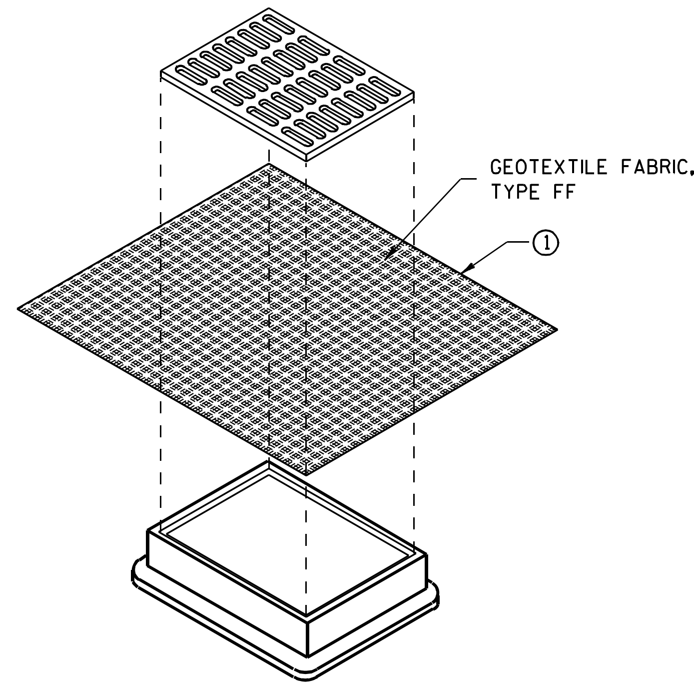
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 4-29-05 DATE /S/ Beth Cann... CHIEF ROADWAY DEVELOP... ...INEER FHWA

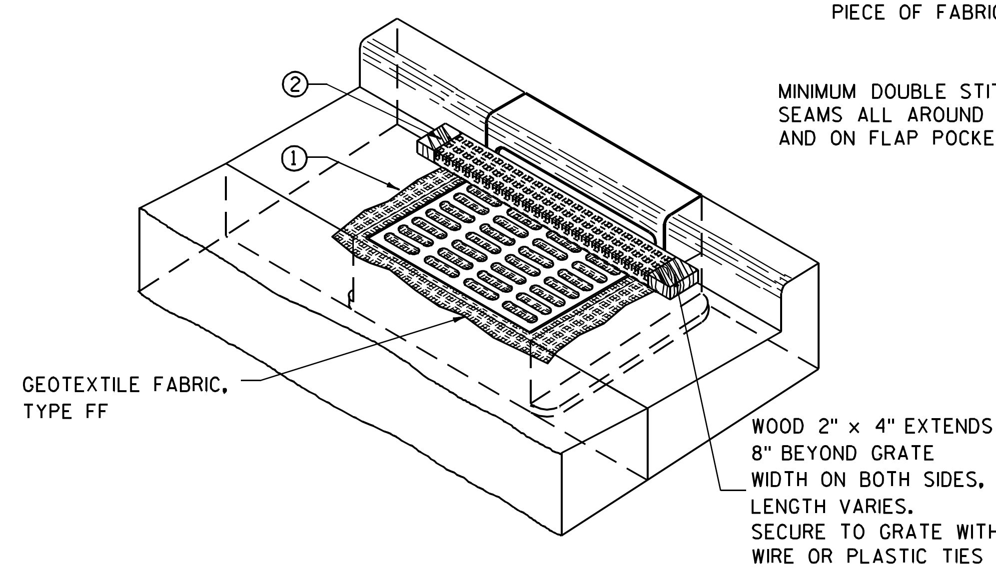


INLET PROTECTION, TYPE A

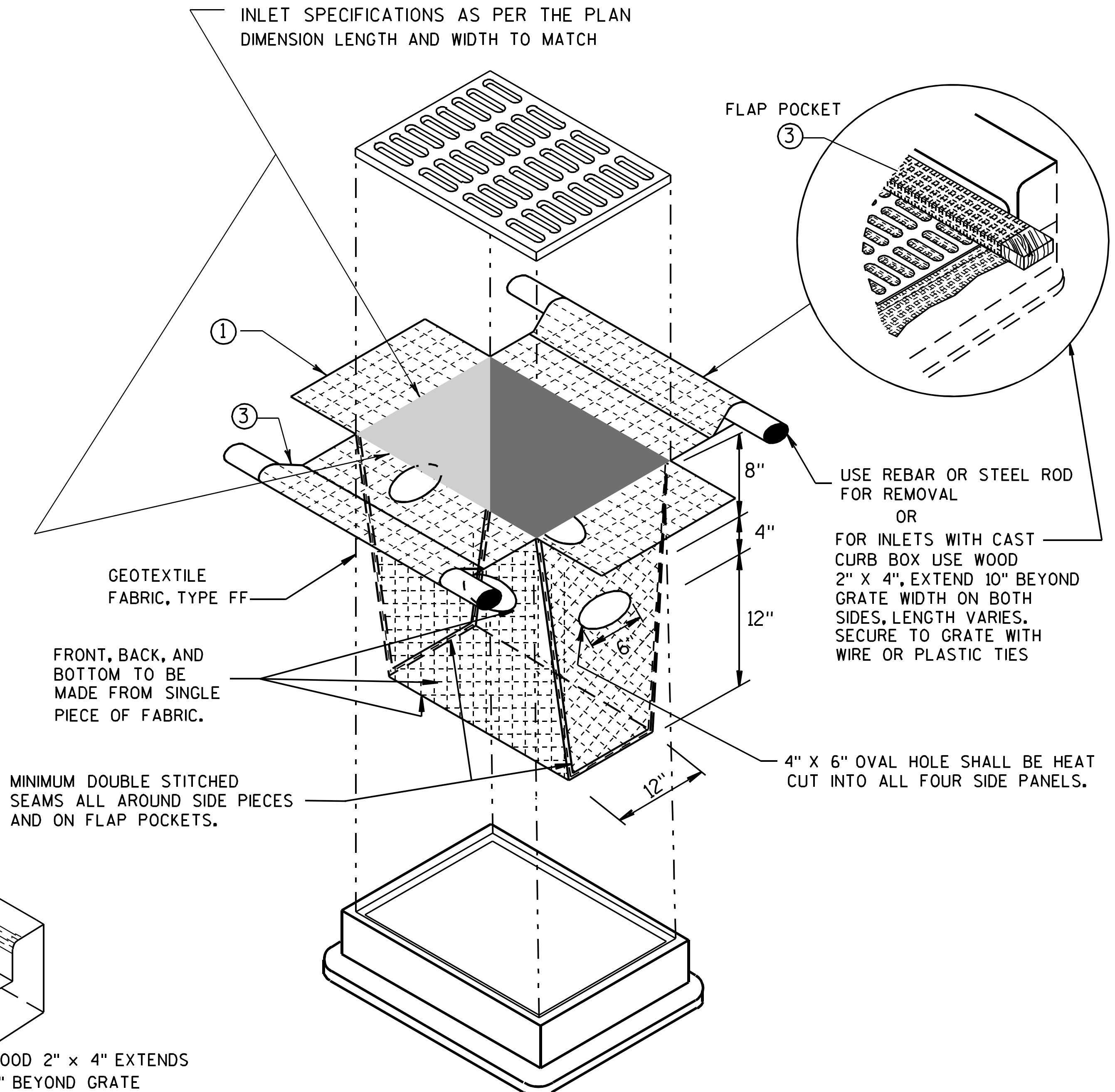


INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

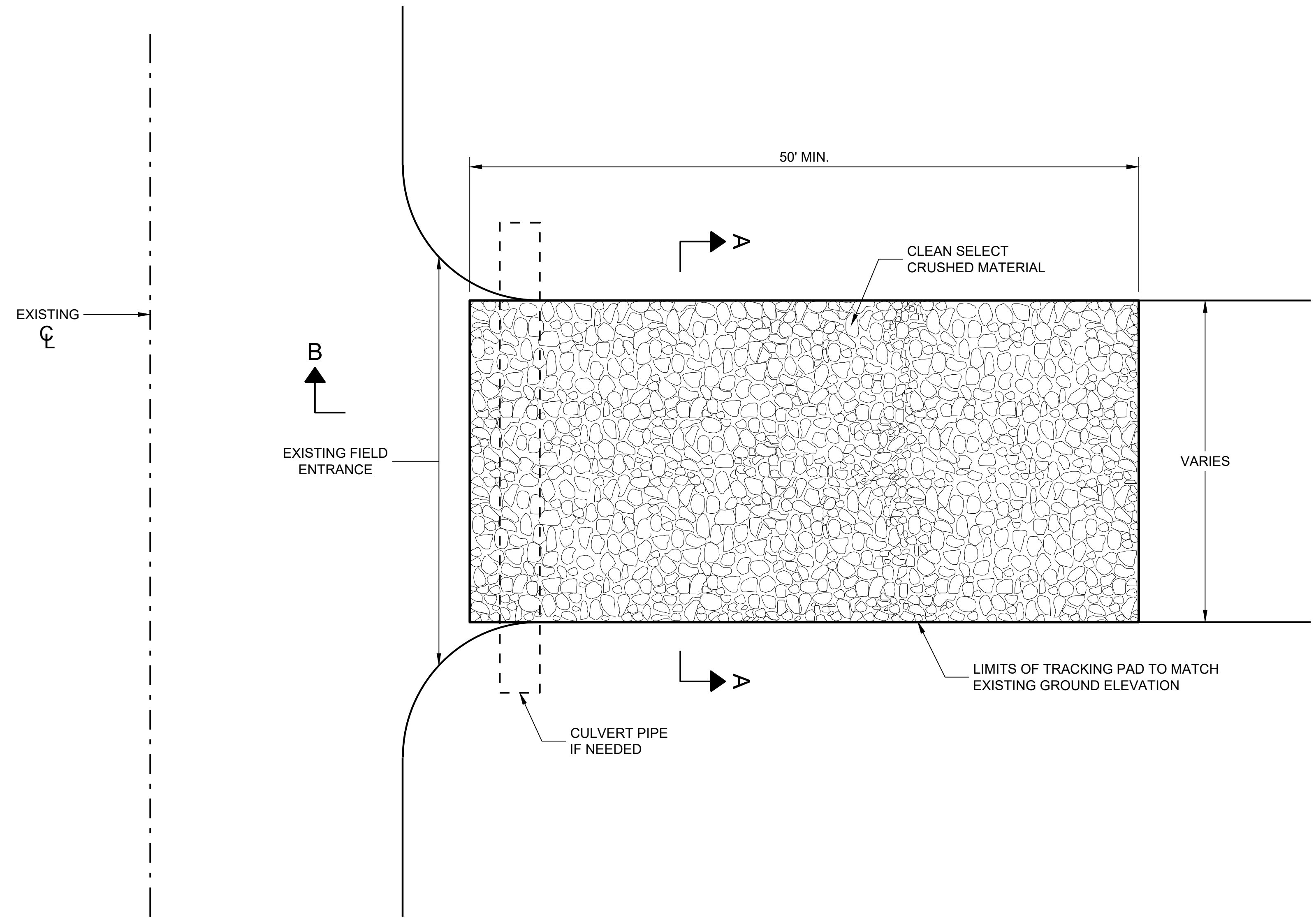
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

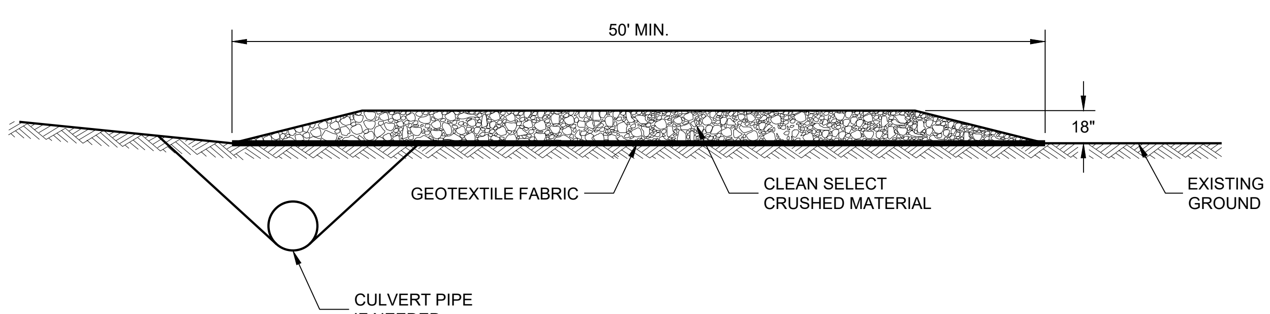
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 DATE
/S/ Beth Cann[illegible]
CHIEF ROADWAY DEVELOPM[illegible]NEER
FHWA





SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

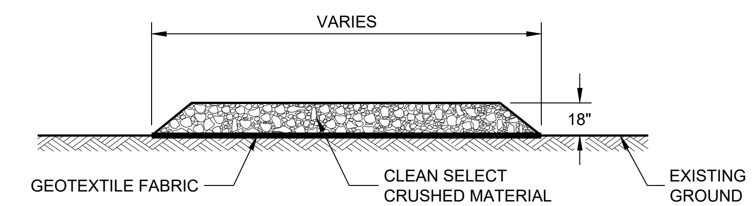
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



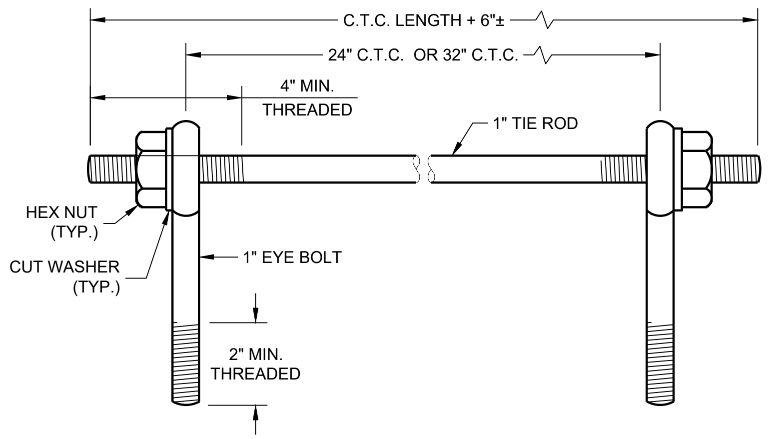
SECTION A - A

TRACKING PAD

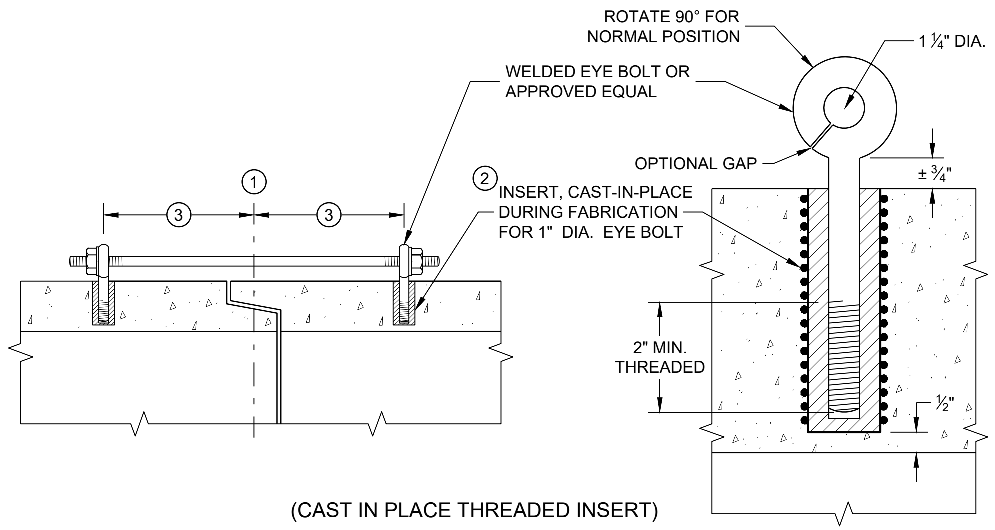
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

1 CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

2 THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

3 HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

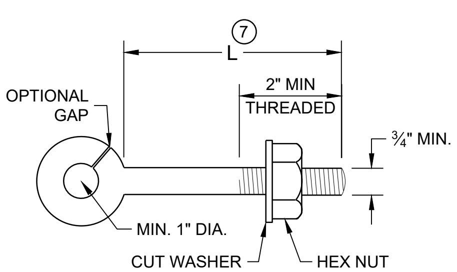
4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

5 OPENING TO BE ROD DIAMETER PLUS 1 INCH.

6 LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

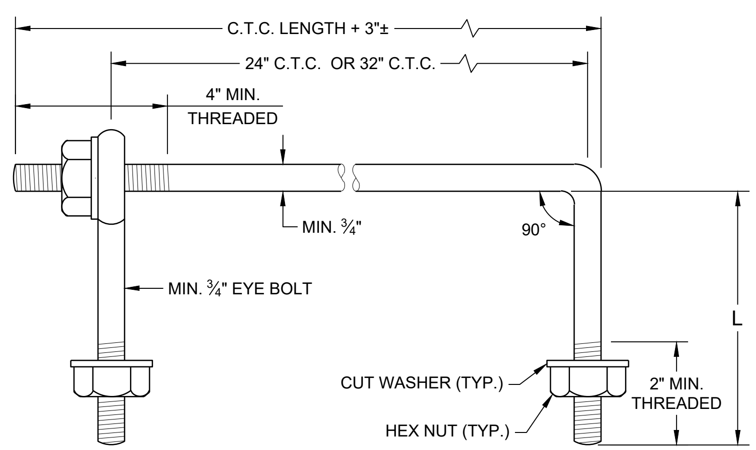
7 EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

6

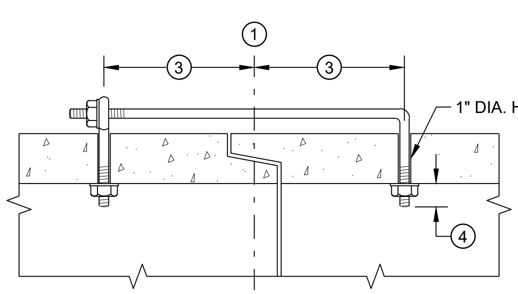


EYE BOLT 7

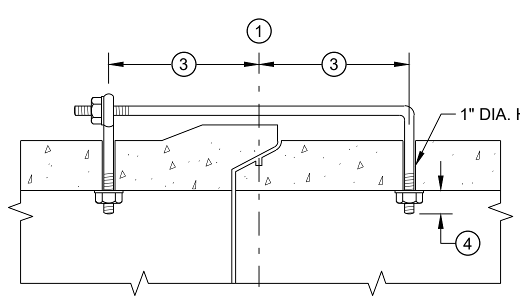
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

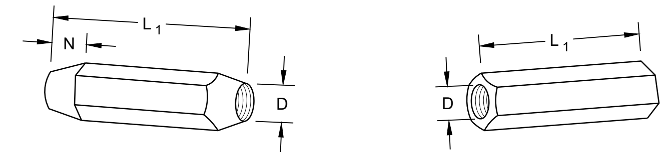
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

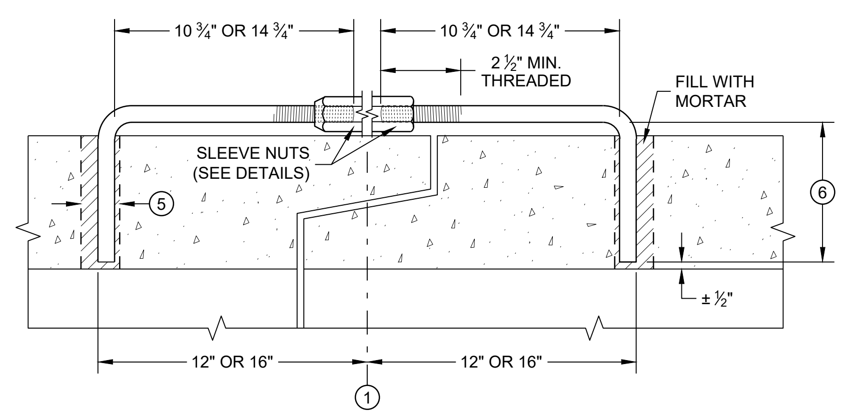
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



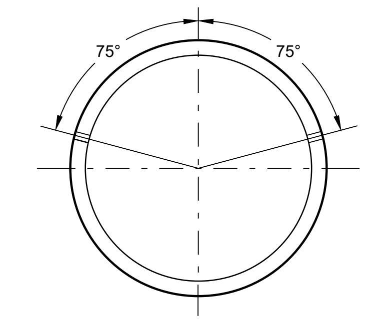
RIGHT AND LEFT THREADS

SLEEVE NUTS



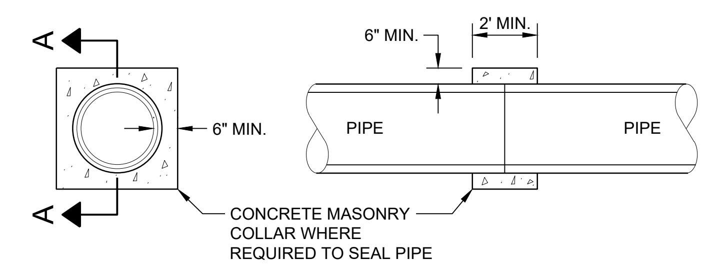
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

6

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

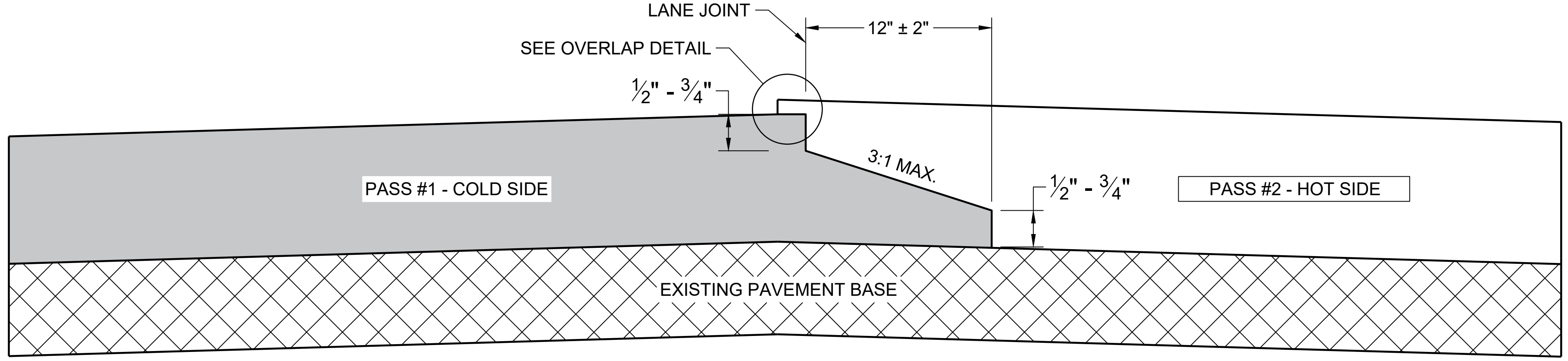
APPROVED

November 2021 — DATE

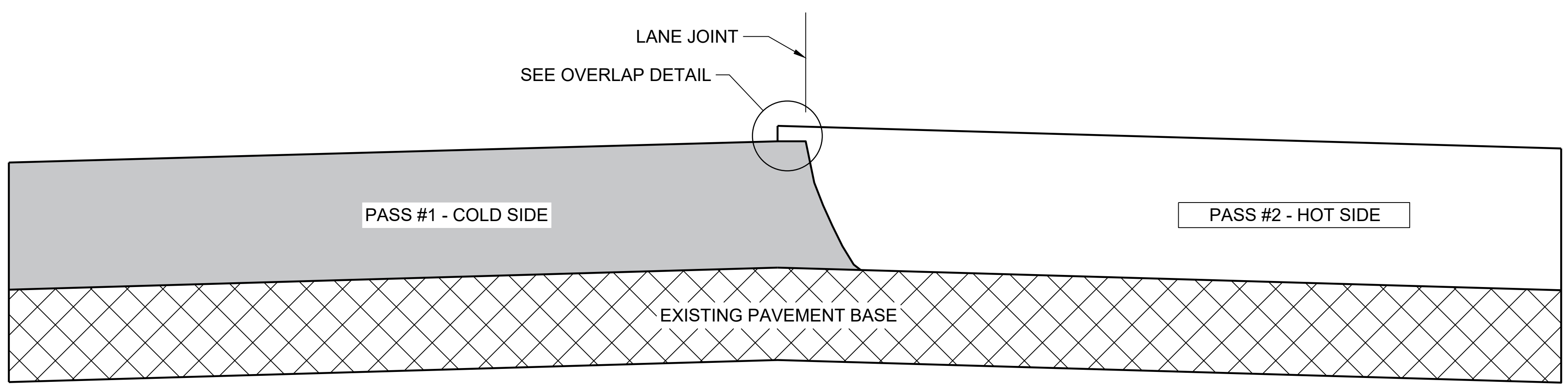
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

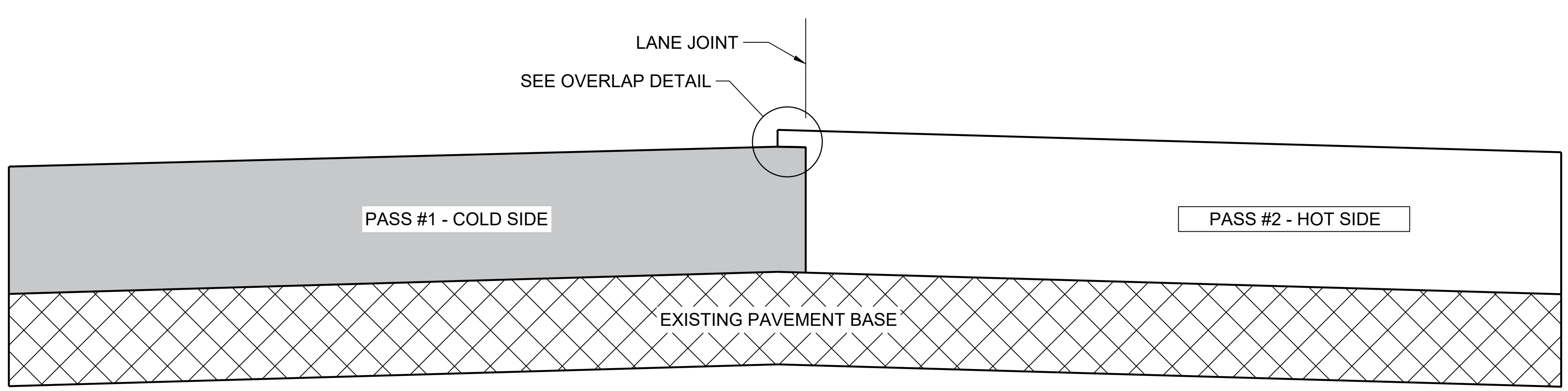
SDD 08F04 - 08



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

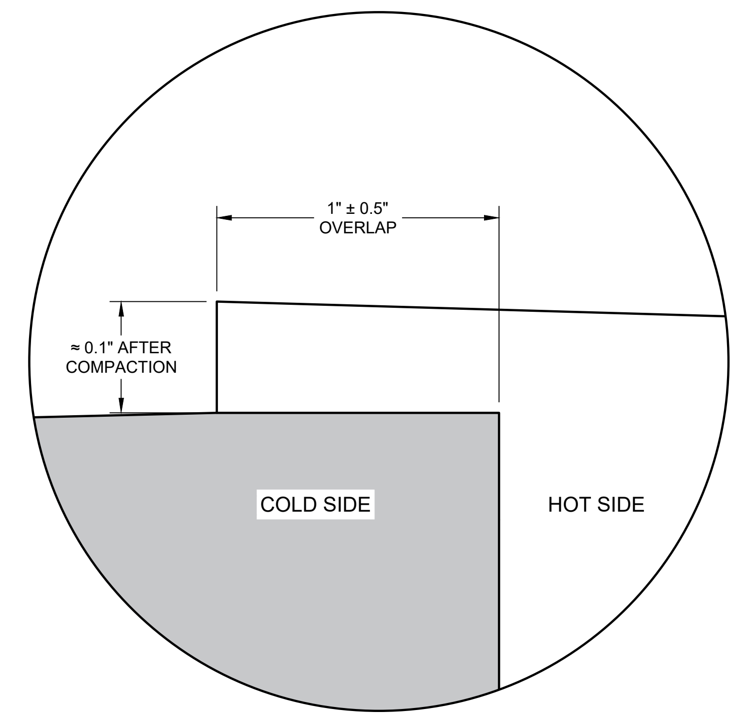
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

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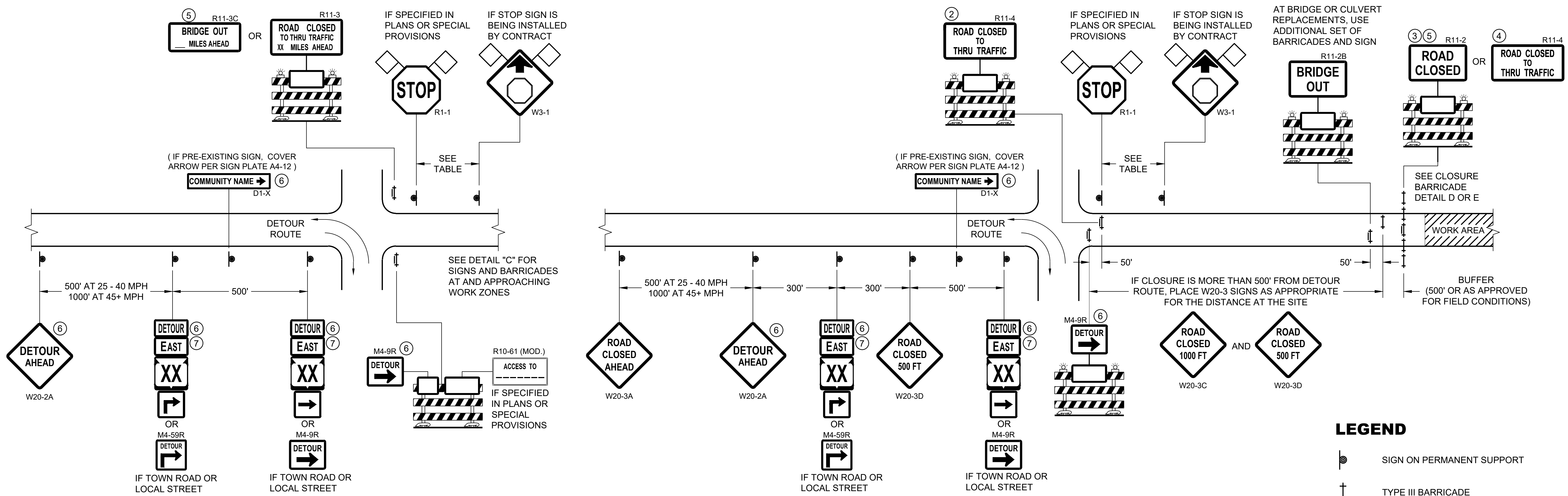
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020 /S/ Steven Hefel
DATE HMA PAVEMENT ENGIN
FHWA

SDD 13C19 - 03

SDD 13C19 - 03



DETAIL A

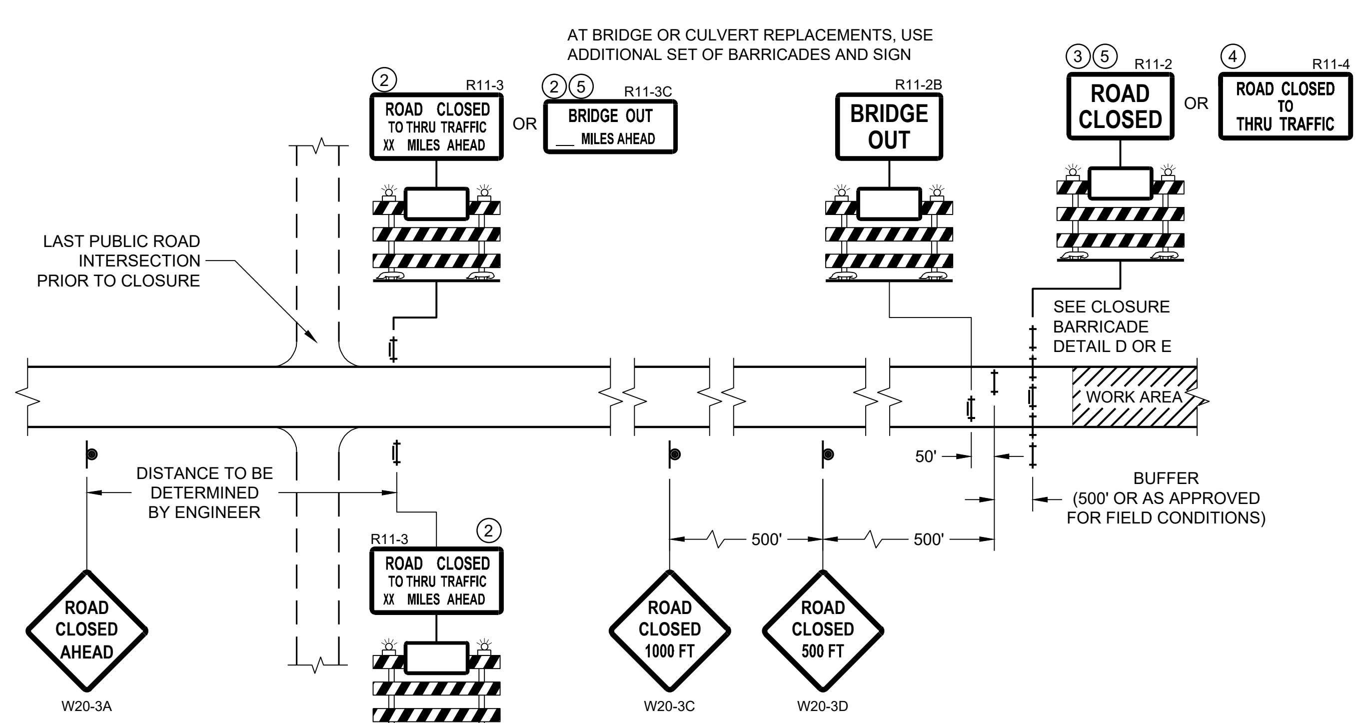
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

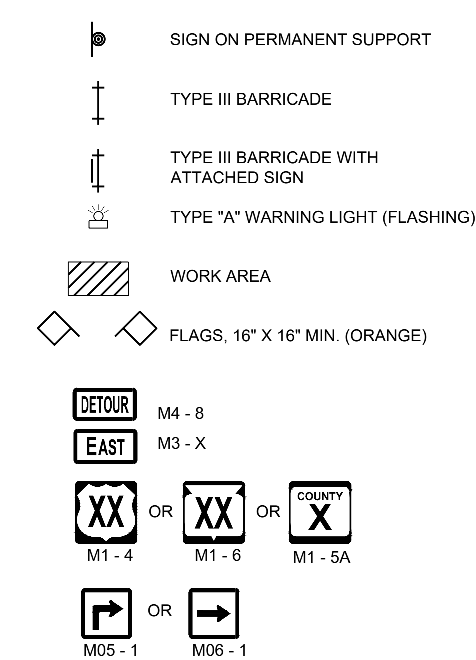
WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

LEGEND



SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

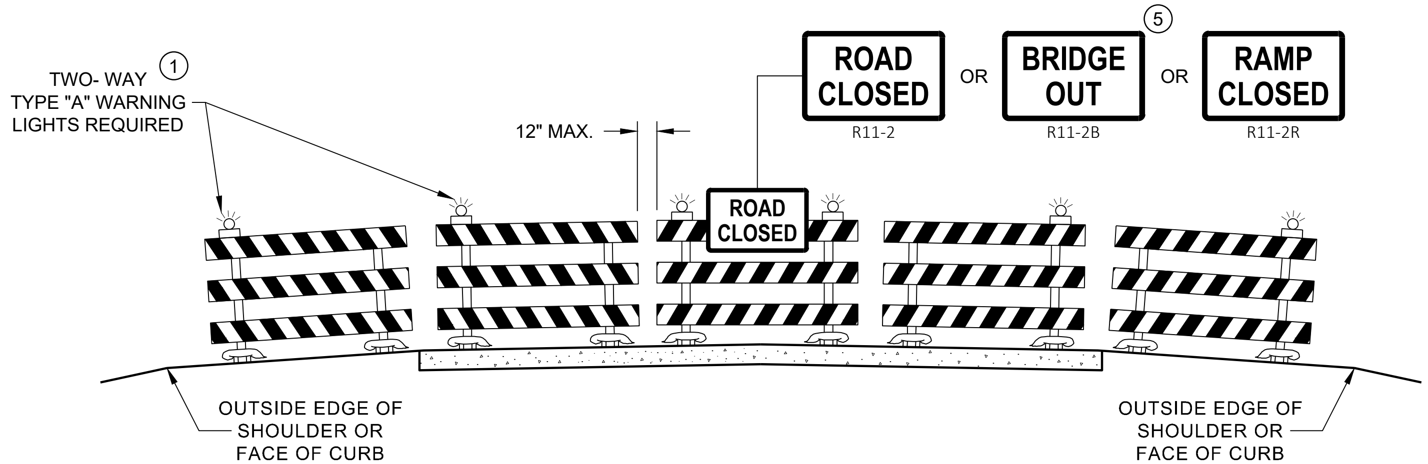
SEE SDD 15C2-SHEET "b" FOR GENERAL NOTES AND FOOTNOTES 1 THROUGH 7

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

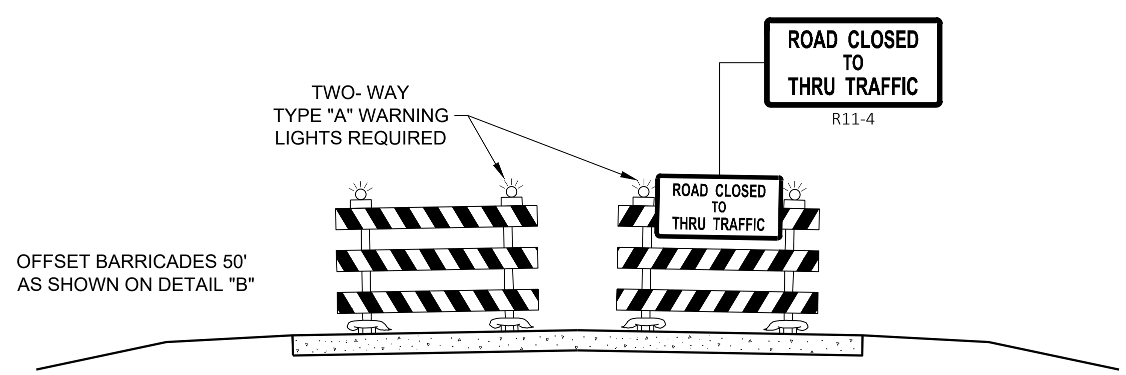
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

1. TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
2. THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
3. FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
4. FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
5. FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
6. INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
7. "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

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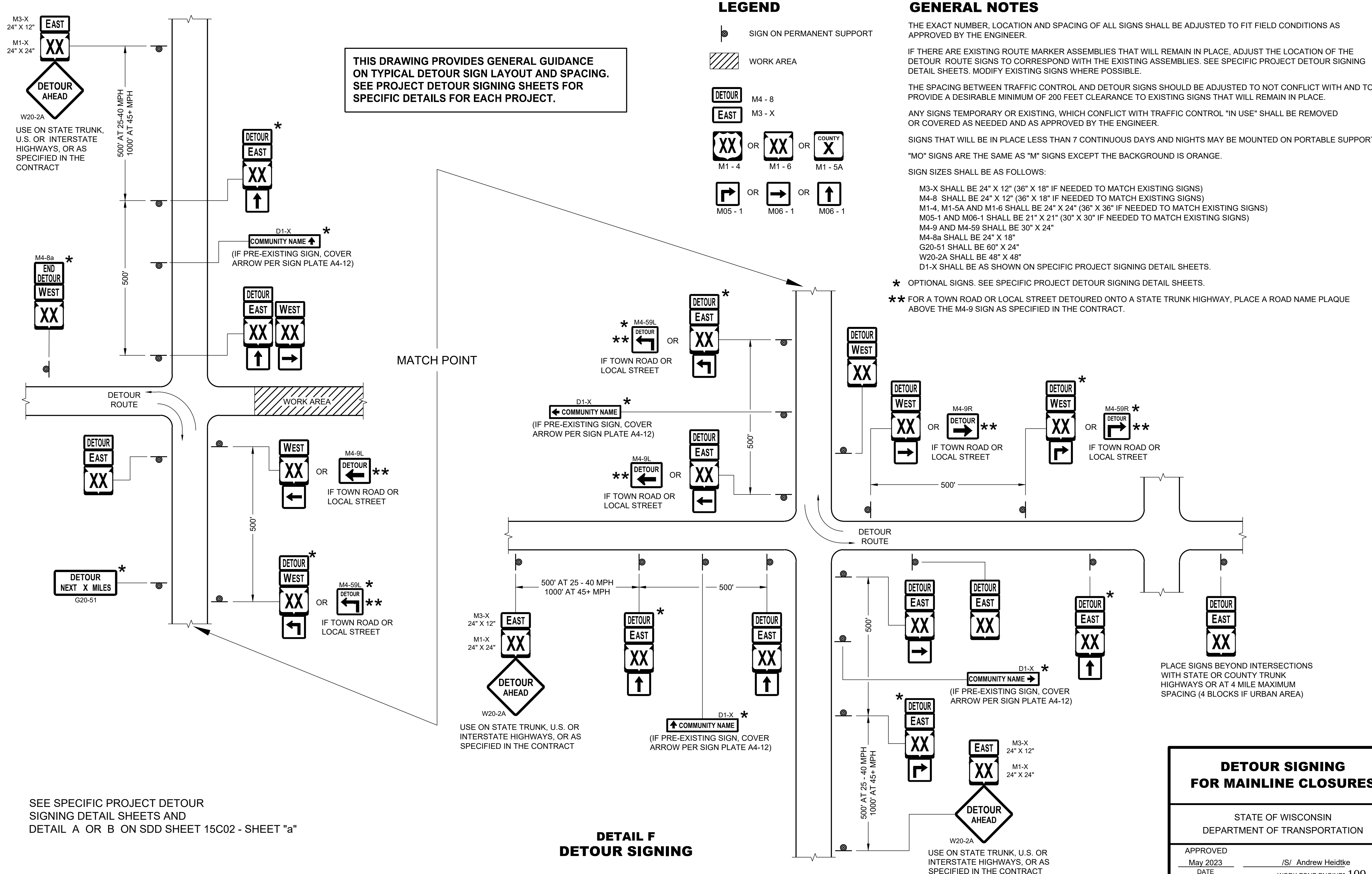
SDD 15C02 - 09b



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

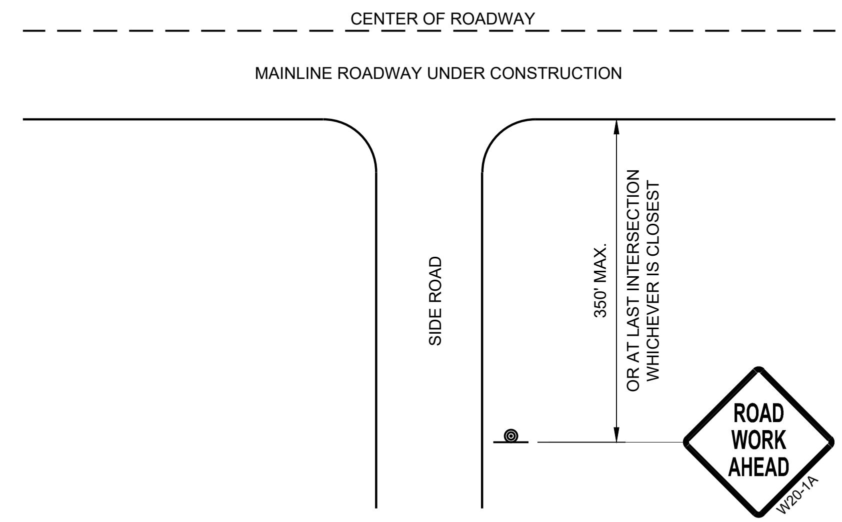
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



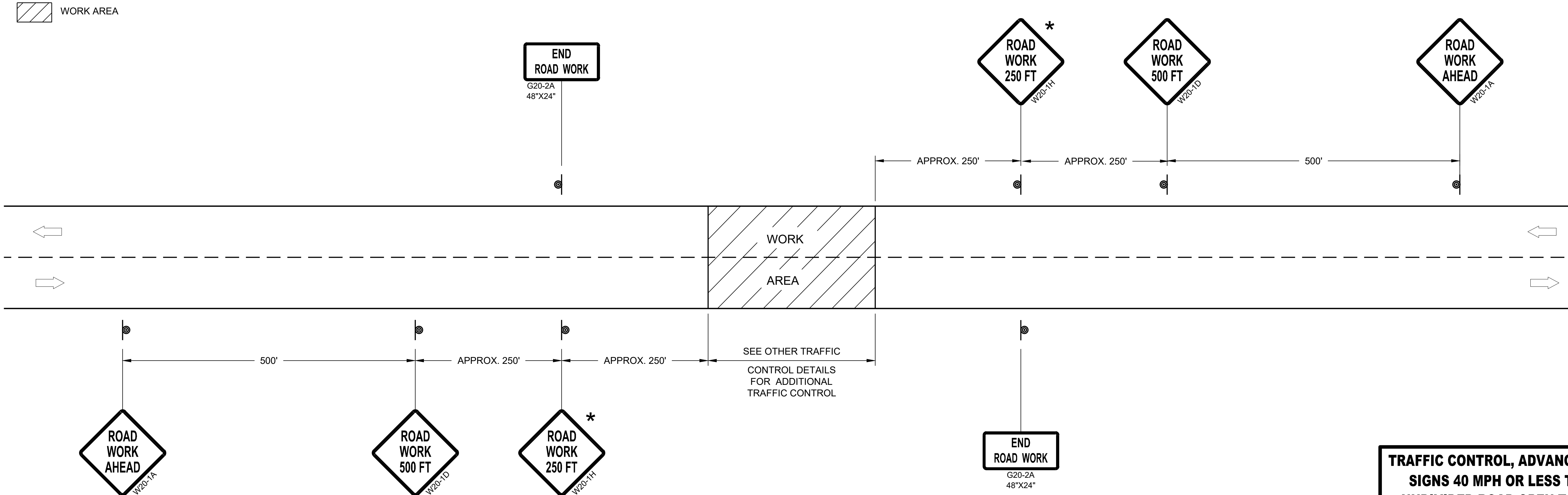
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

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TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

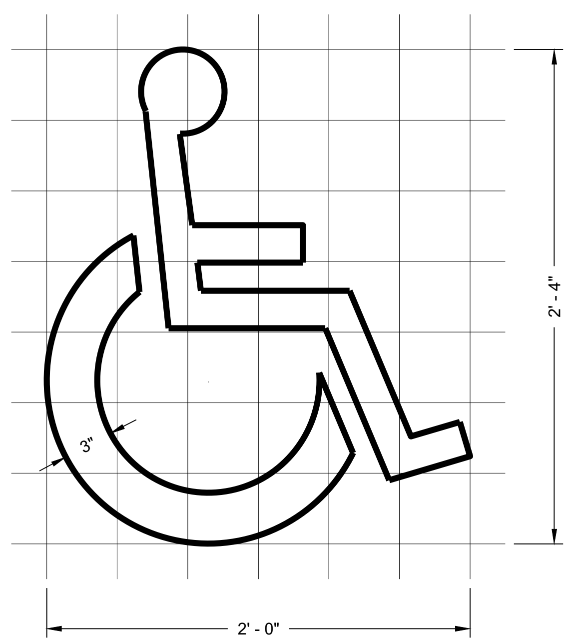
APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

SDD 15C05 - 05

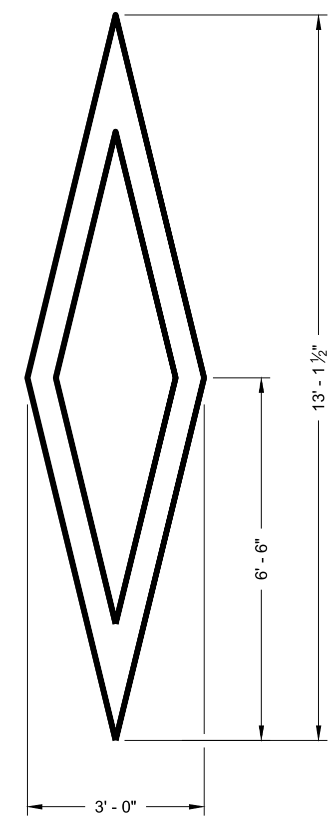
SDD 15C05 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

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PAVEMENT MARKING SYMBOLS

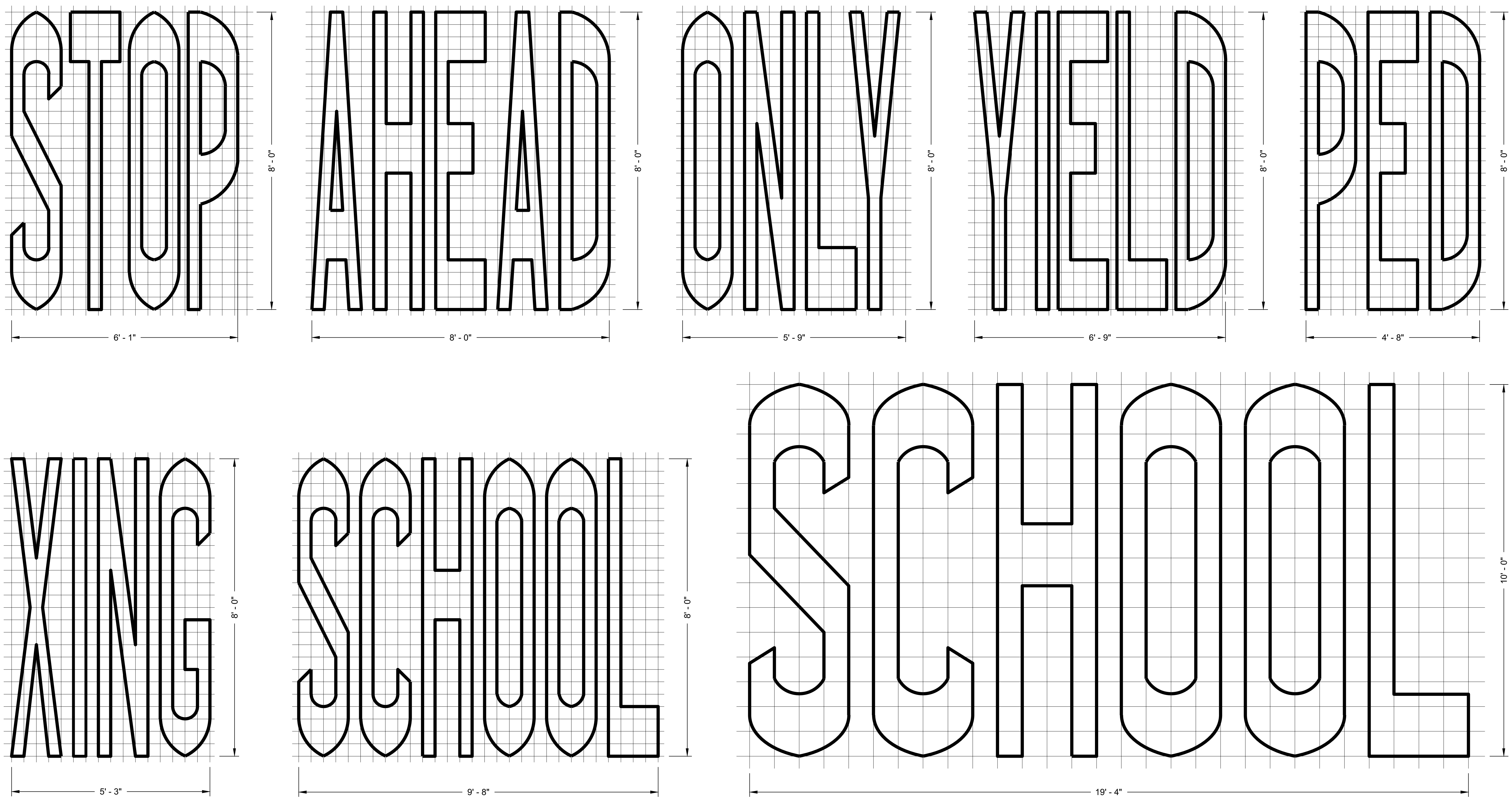
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER

FHWA

SDD 15C07 - 15a



SINGLE LANE

TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

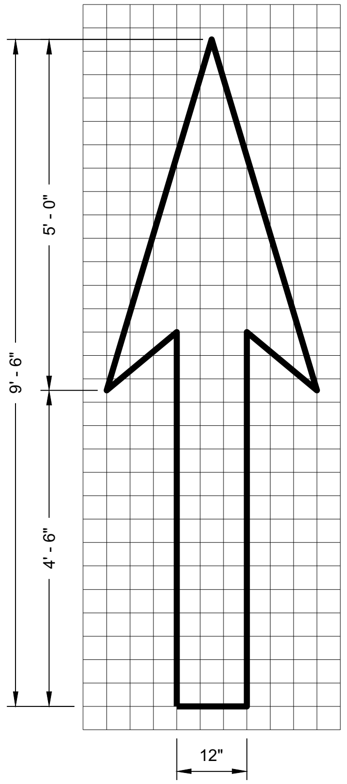
PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

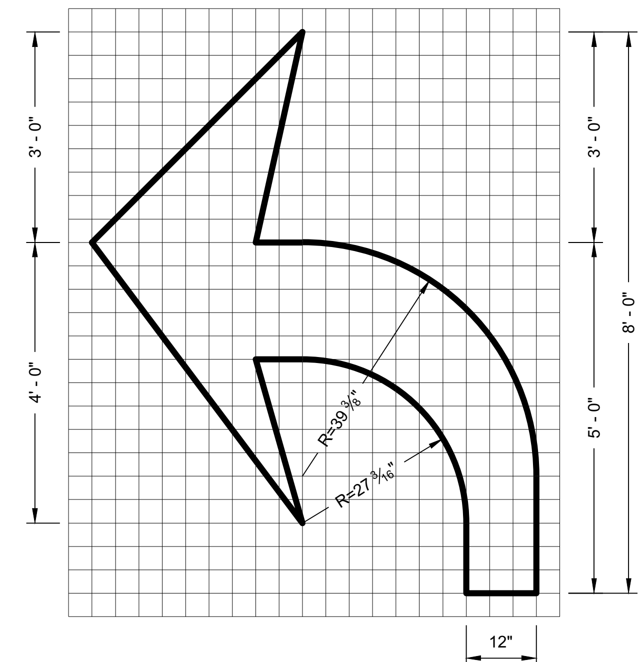
APPROVED
November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

GENERAL NOTES

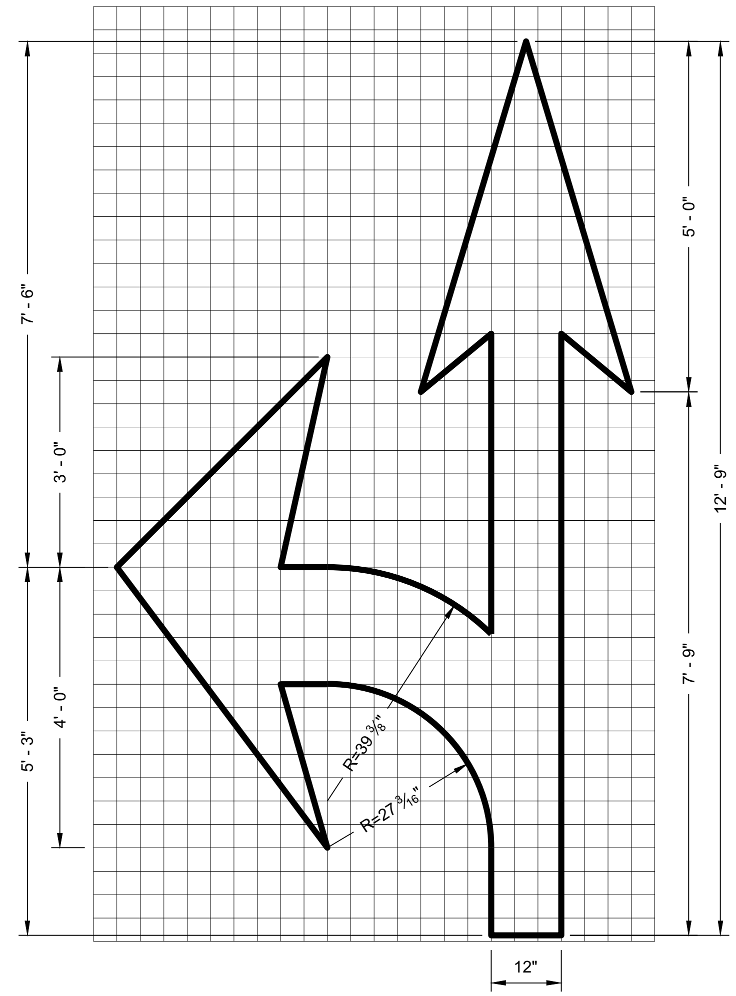
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



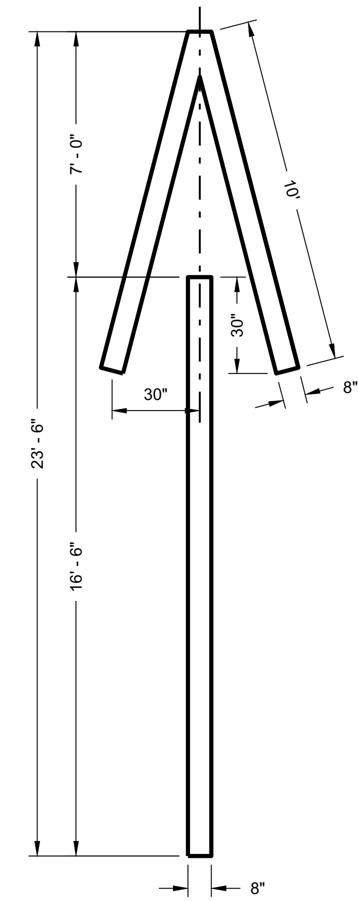
TYPE 1



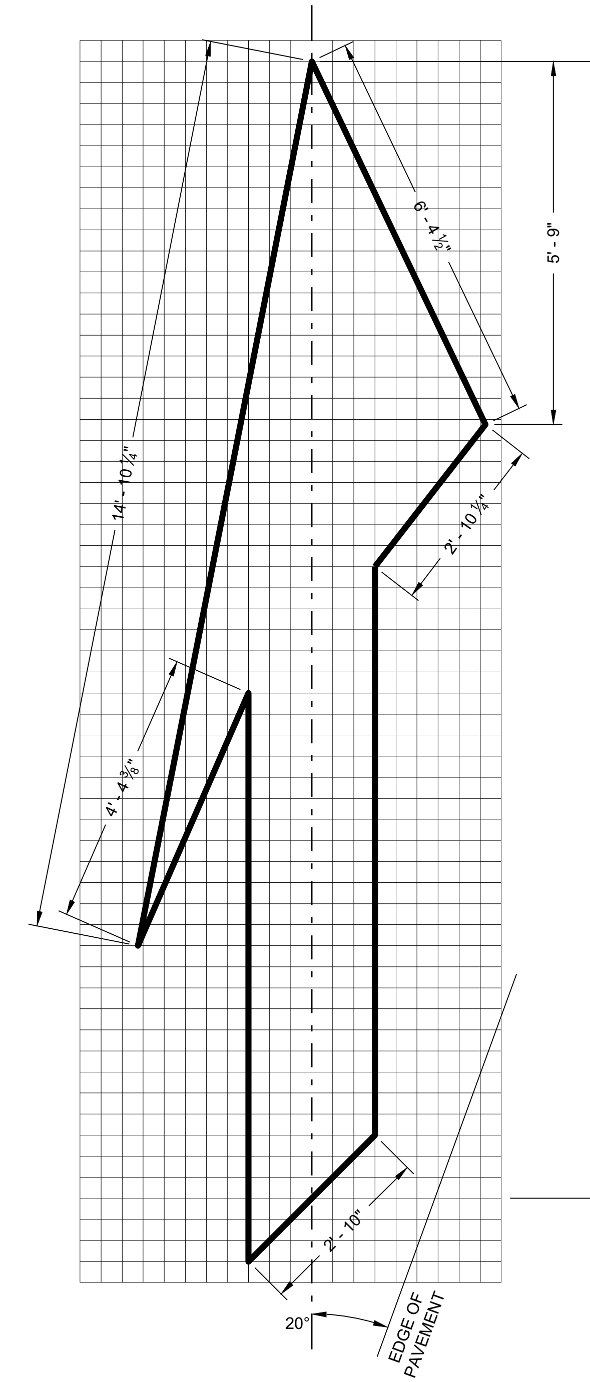
TYPE 2



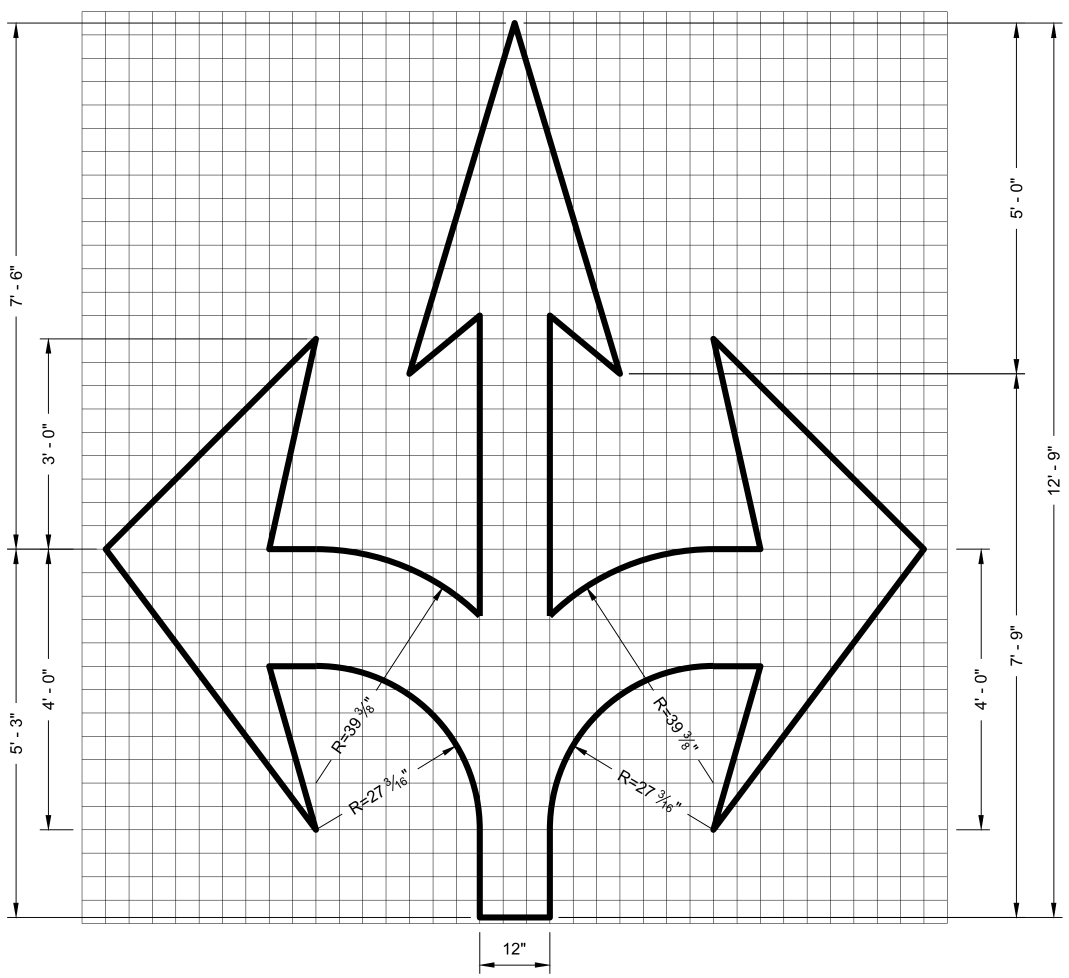
TYPE 3



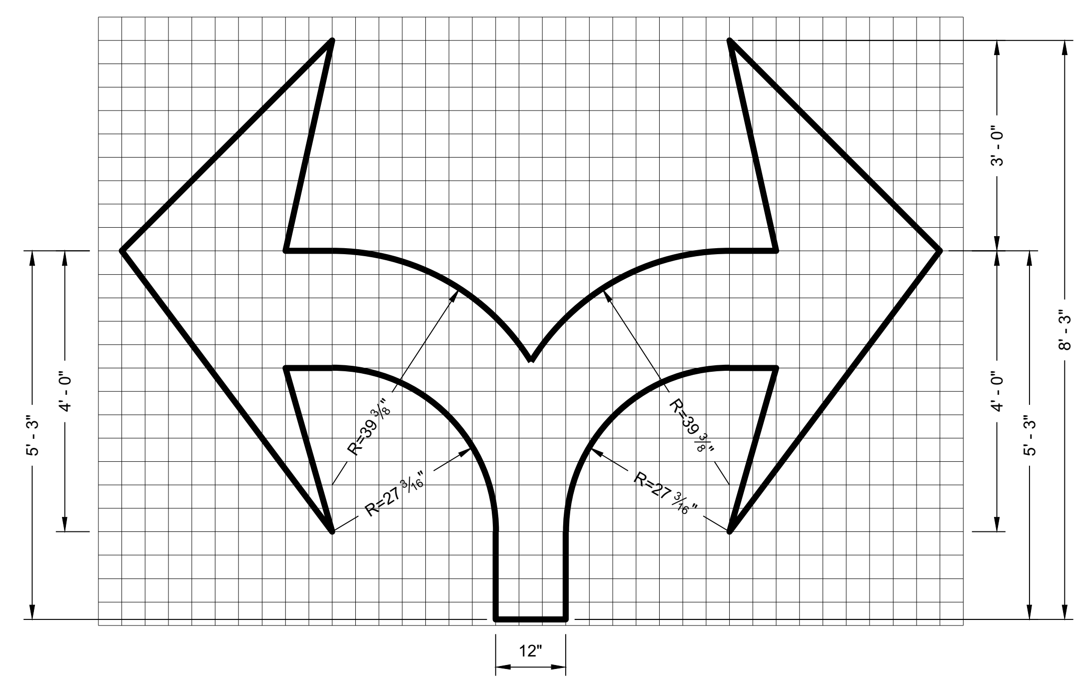
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

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PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2019 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

SDD 15C07 - 15c

SDD 15C07 - 15c

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

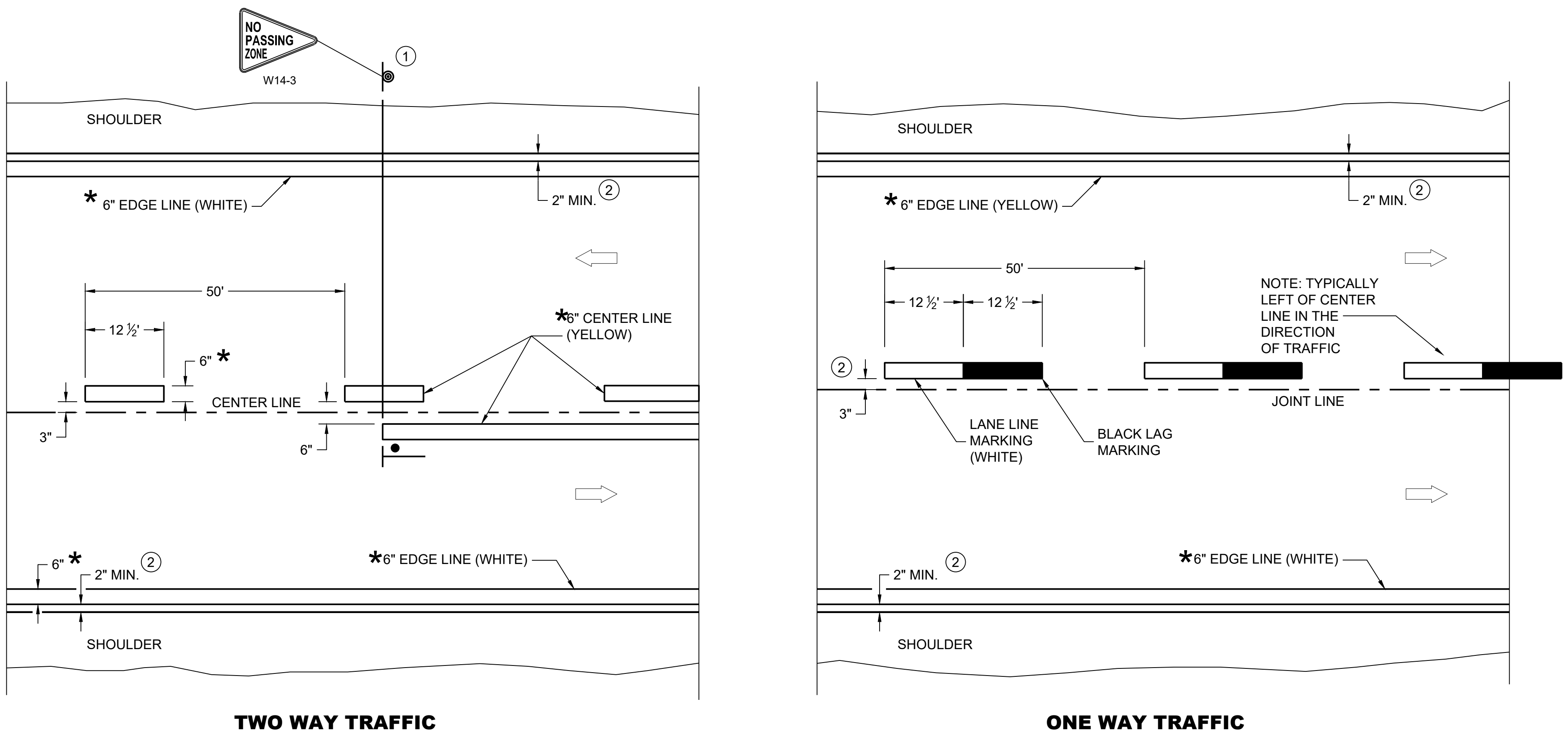
LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PERMANENT PAVEMENT MARKING

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SDD 15C08-23a

SDD 15C08-23a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer
FHWA

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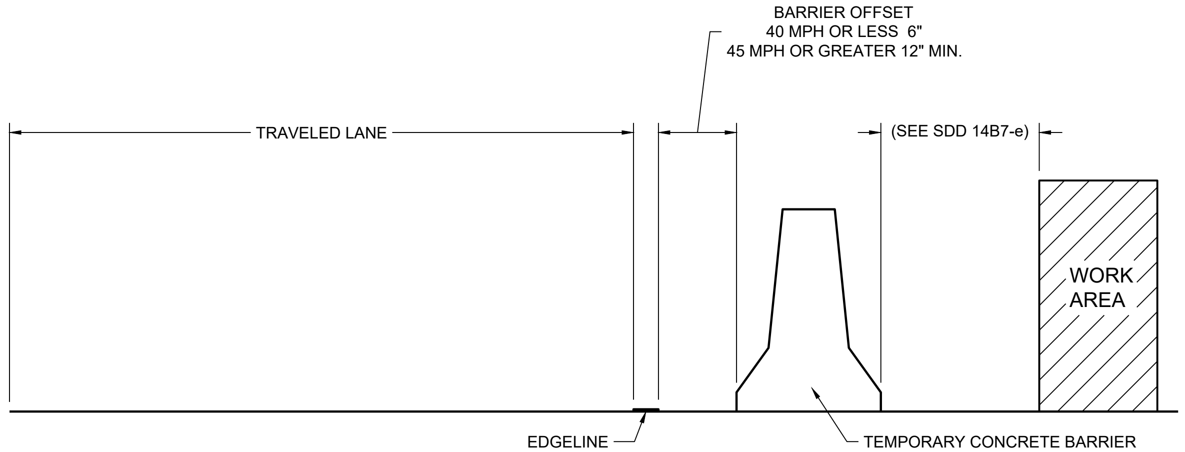


TEMPORARY BARRIER OFFSET FROM EDGELINE

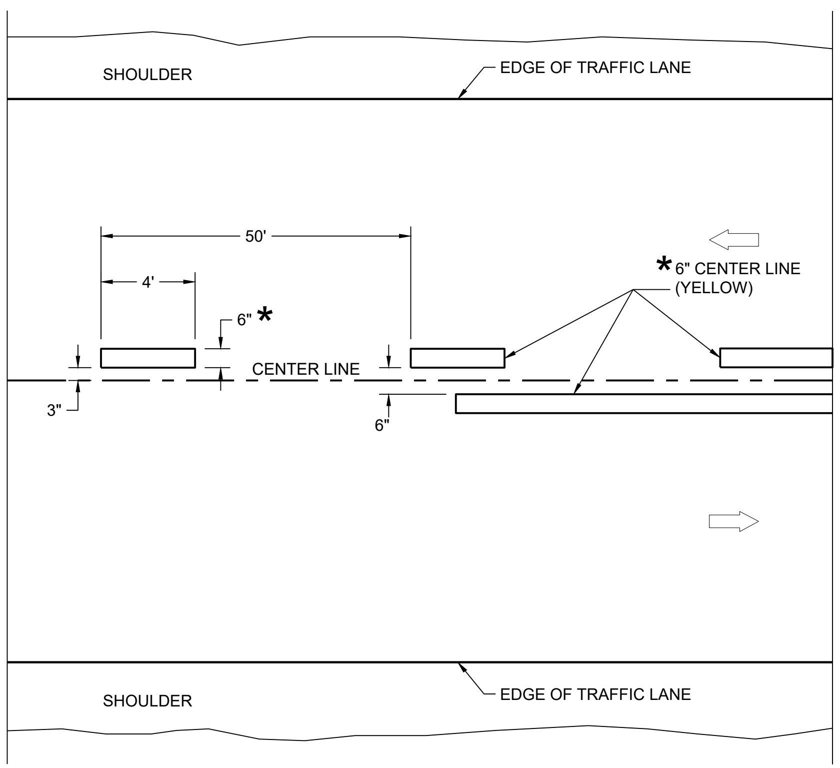
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

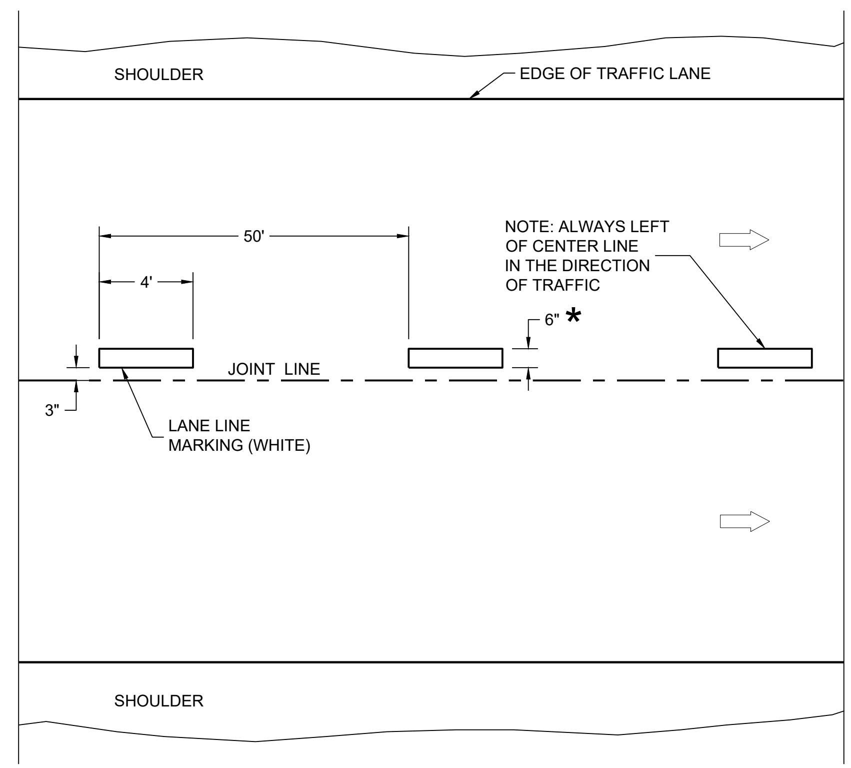
LEGEND

DIRECTION OF TRAFFIC

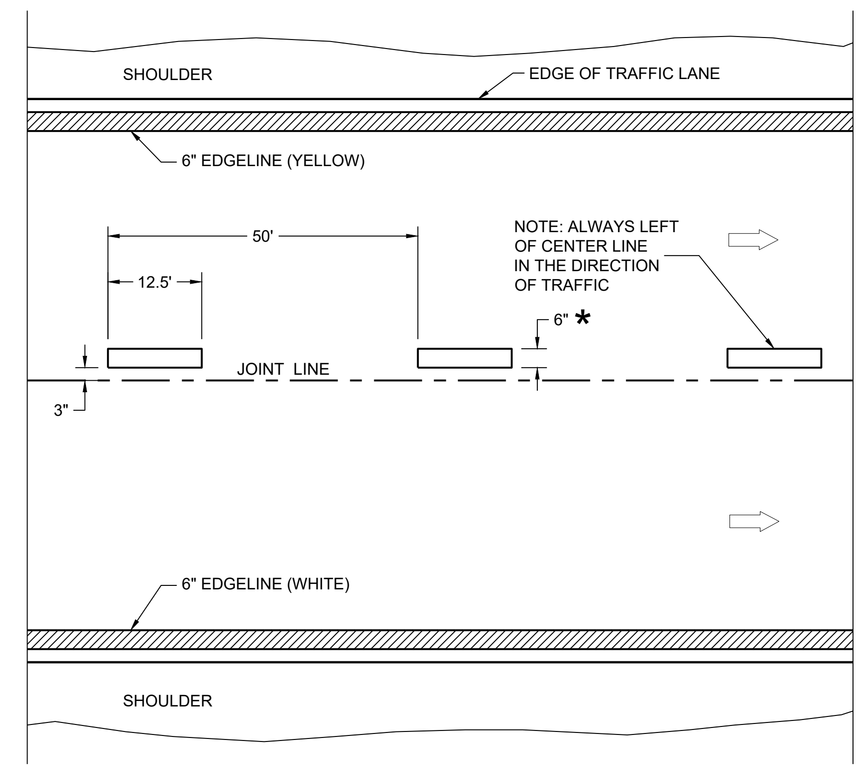
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

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TEMPORARY PAVEMENT MARKING

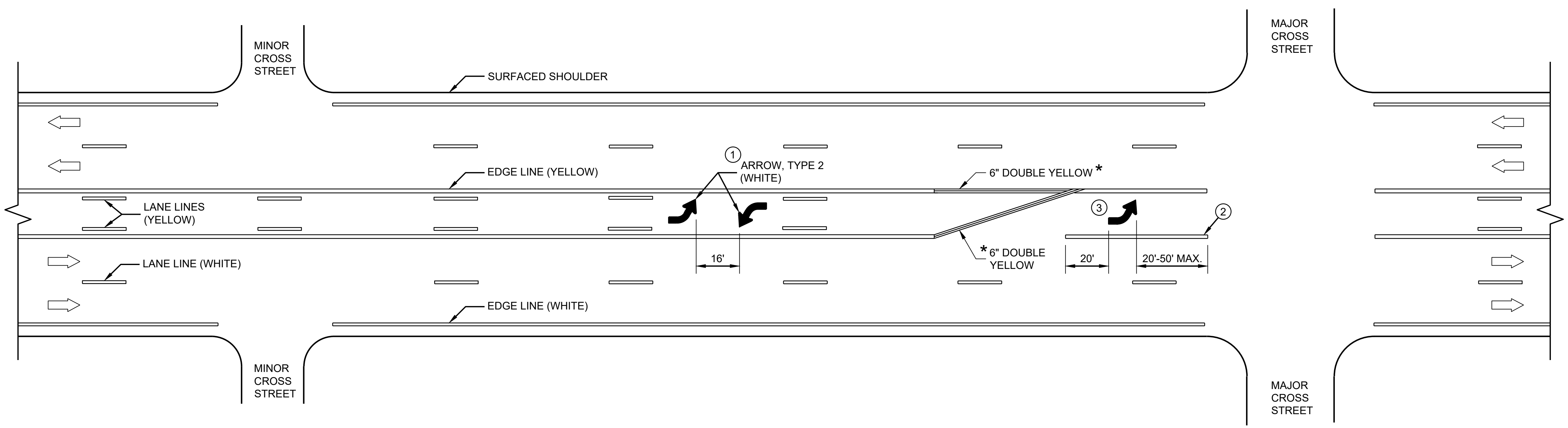
TEMPORARY LONGITUDINAL PAVEMENT MARKING
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED May 2023 — DATE /S/ Jeannie Silver — Statewide Pavement Marking Engineer FHWA

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



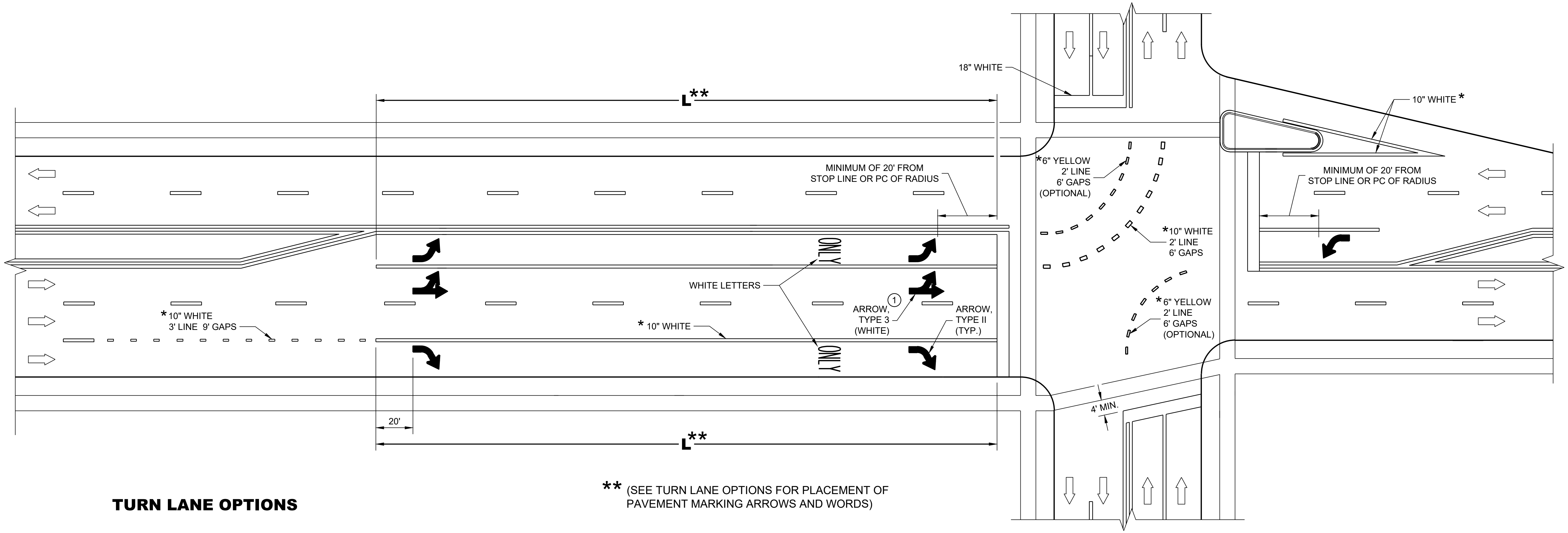
TWO WAY LEFT TURN LANE

SDD 15C08-23c

SDD 15C08-23c

PAVEMENT MARKING (TURN LANES)

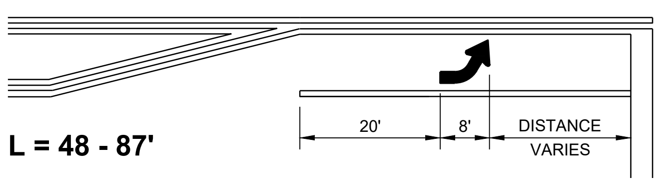
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



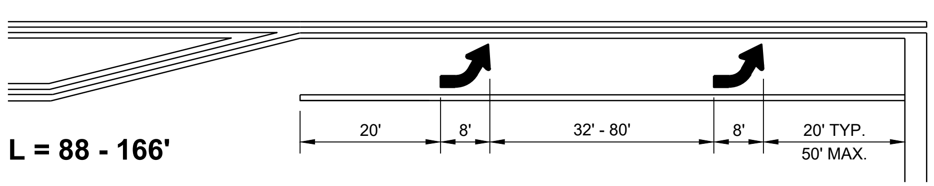
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

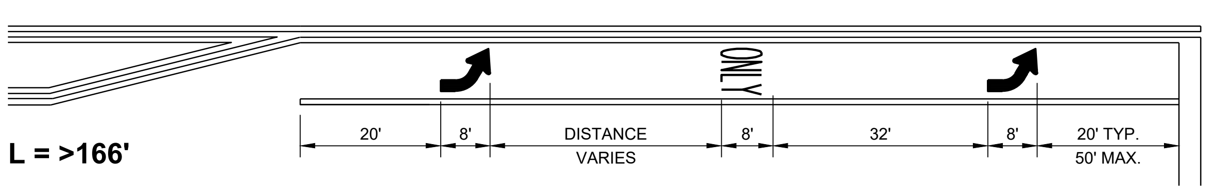
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

(1) QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

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SDD 15C08-23d

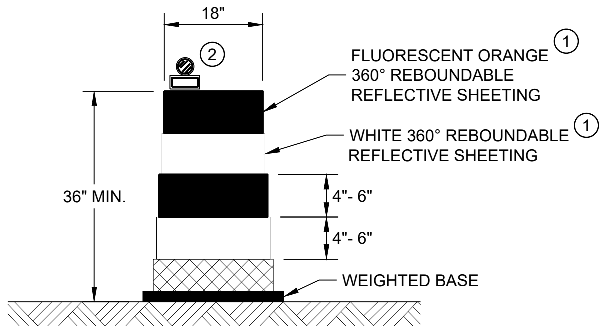
SDD 15C08-23d

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATI

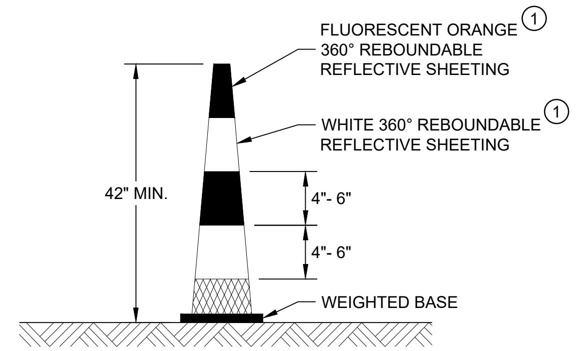
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

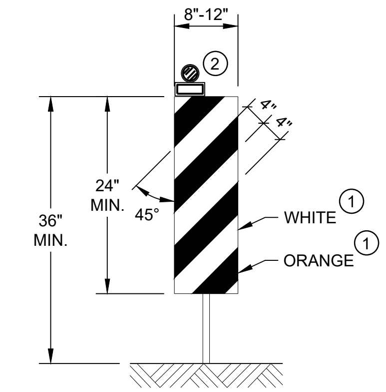
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"

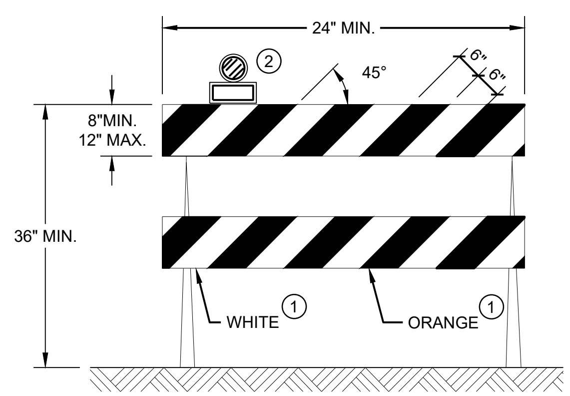


VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.

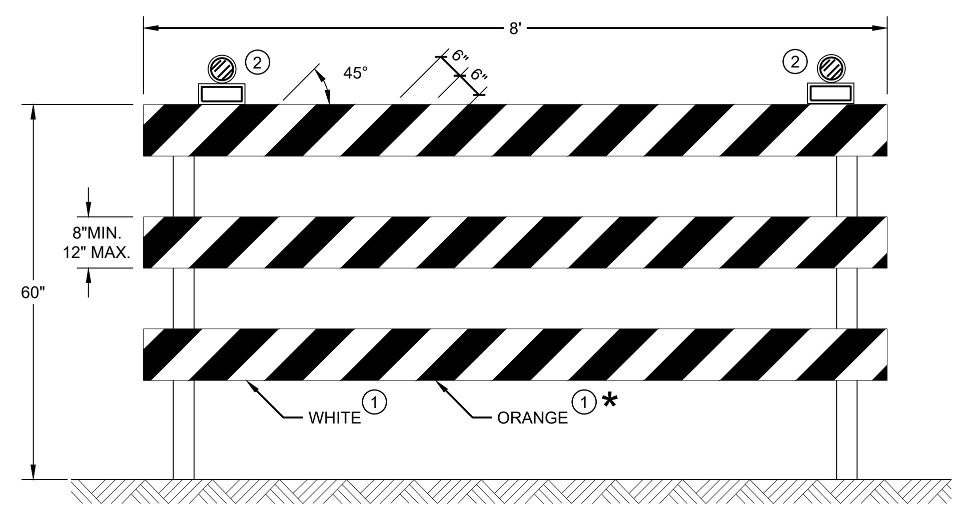
6

6



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

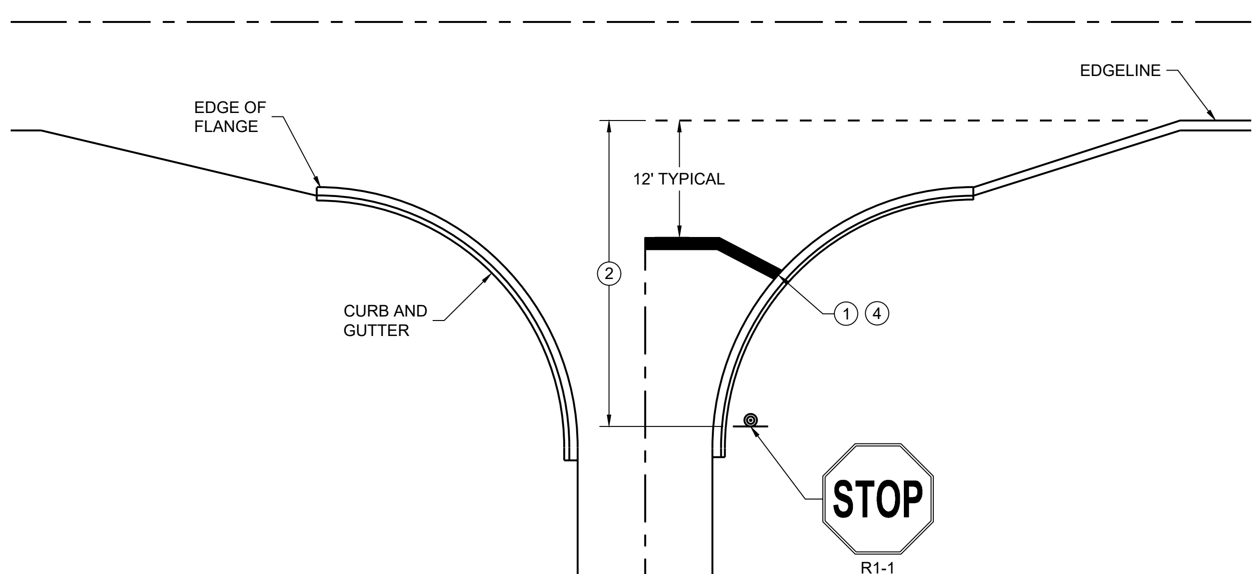
APPROVED
November 2022 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

SDD 15C11 - 10b

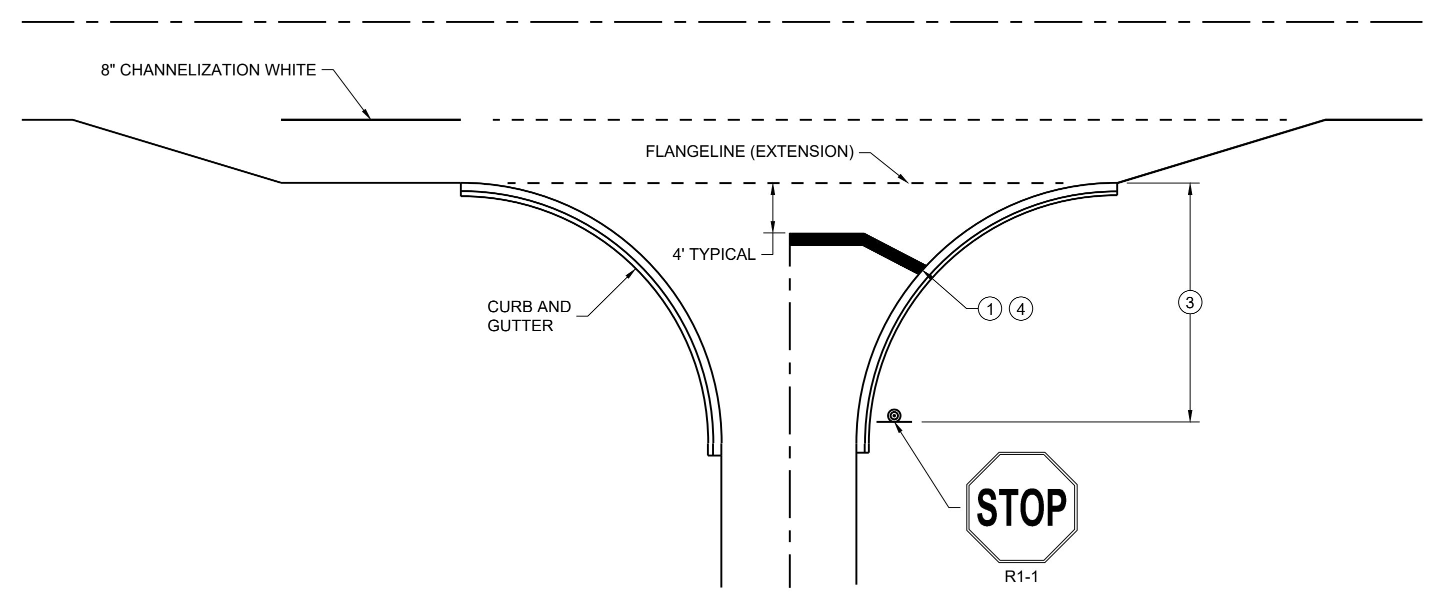
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

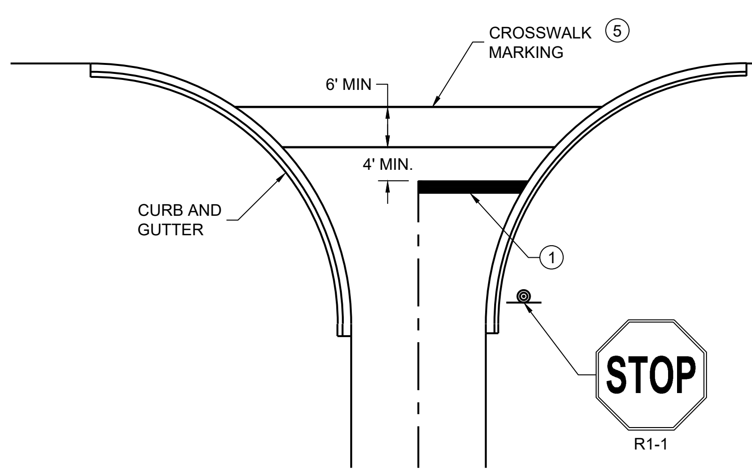
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS

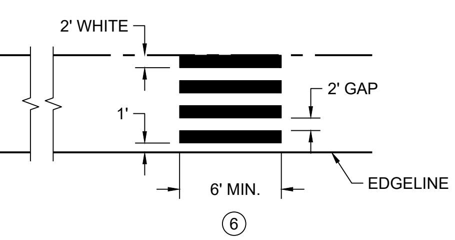


TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



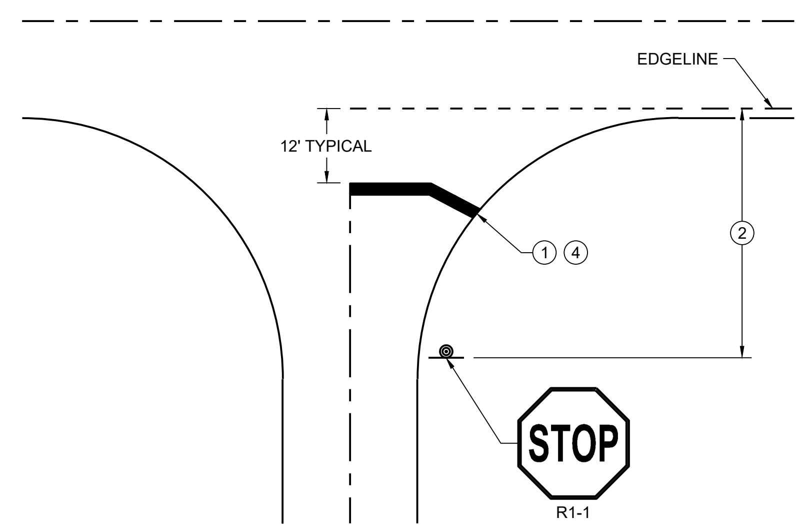
TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE





TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

6

6

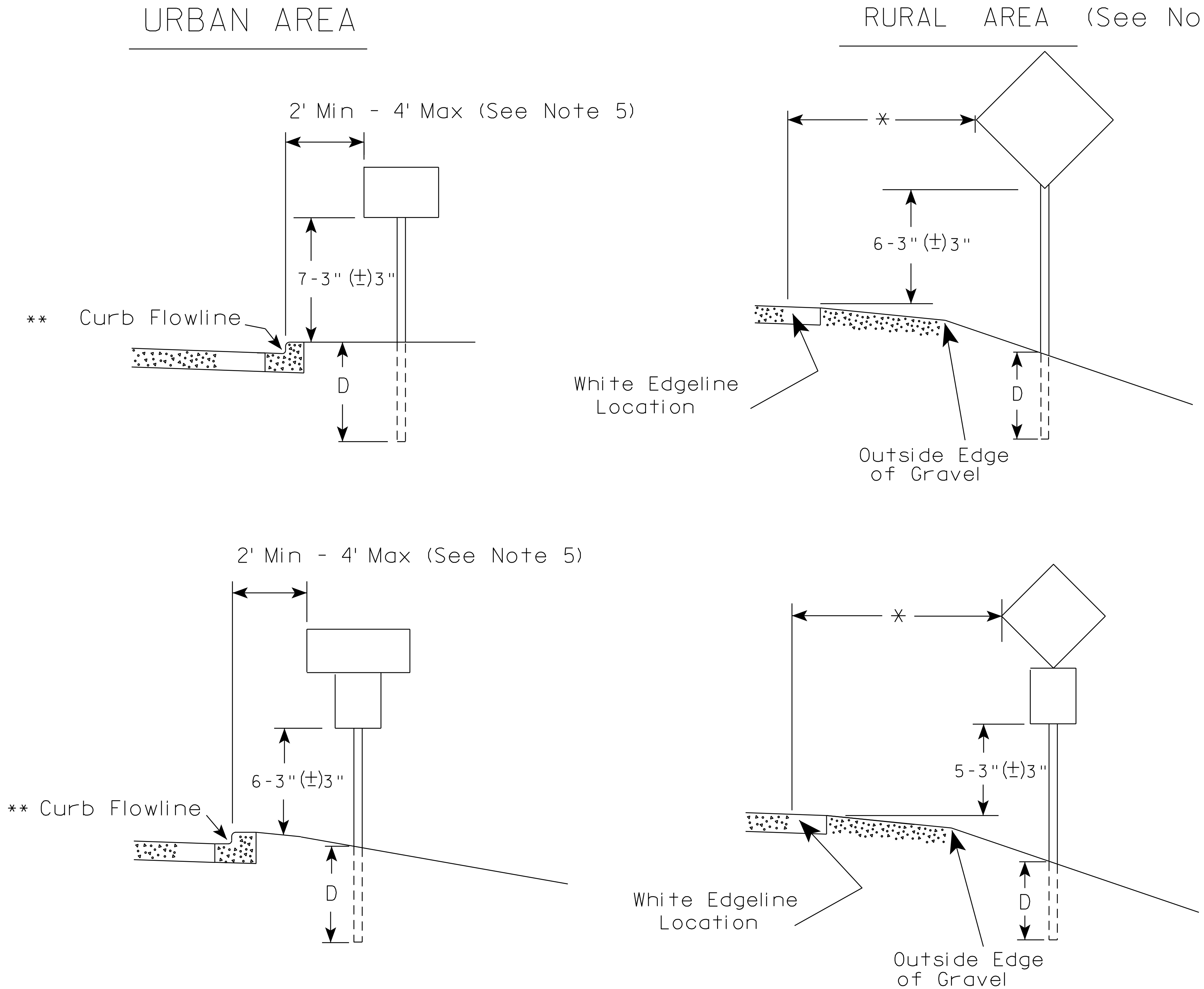
STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

SDD 15C33-05

SDD 15C33-05



GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

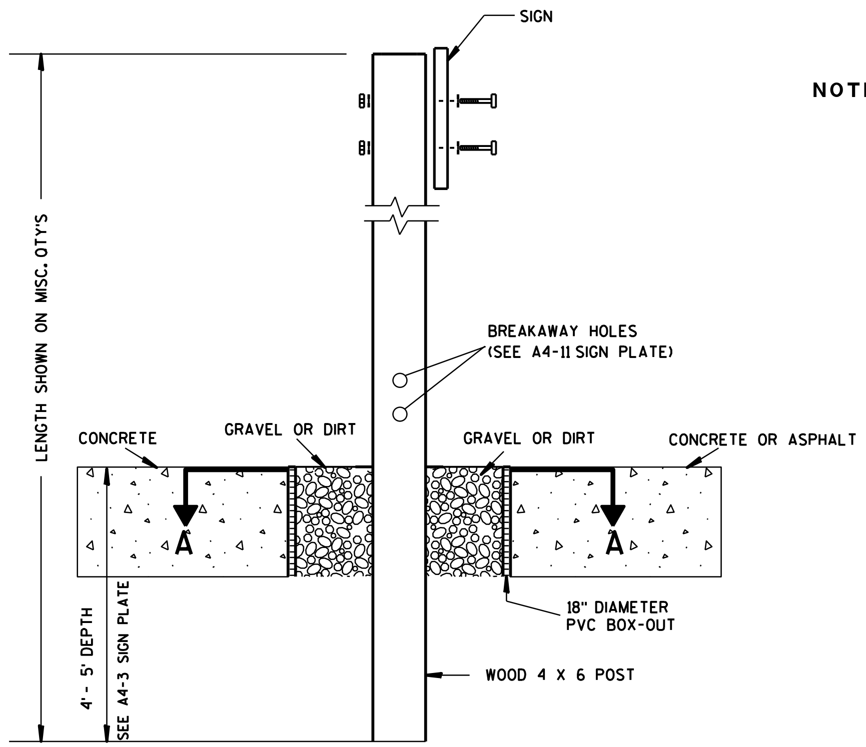
7

7

NOTES: 1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION

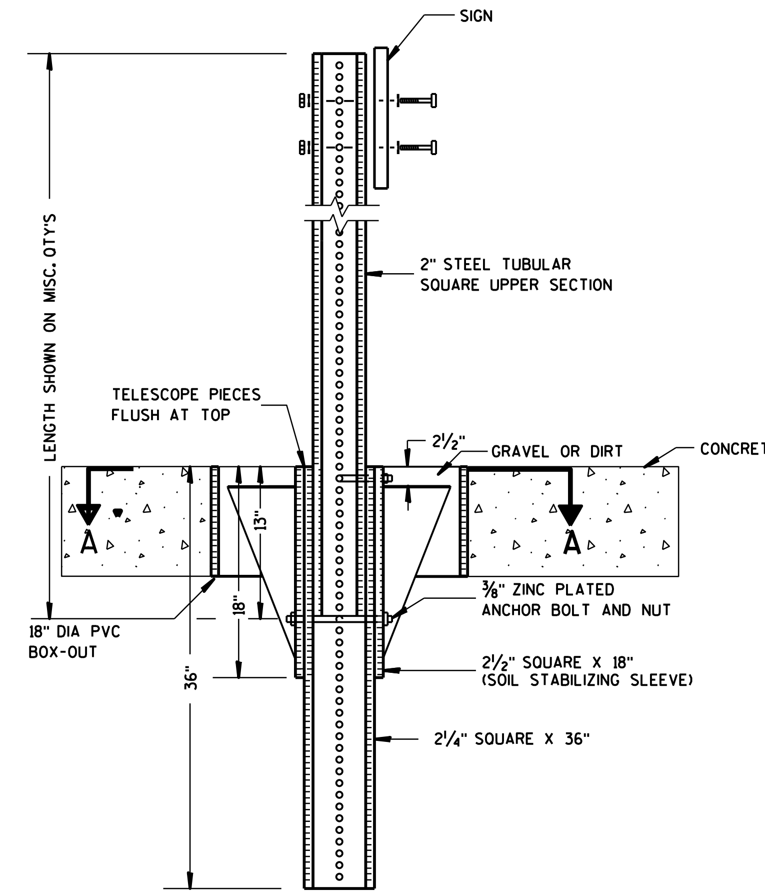
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS

3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



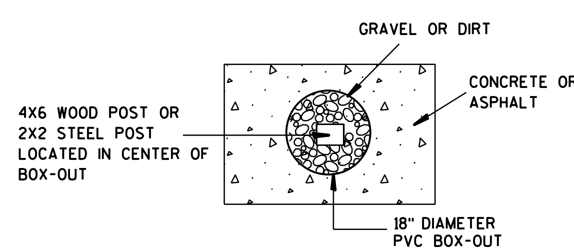
ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

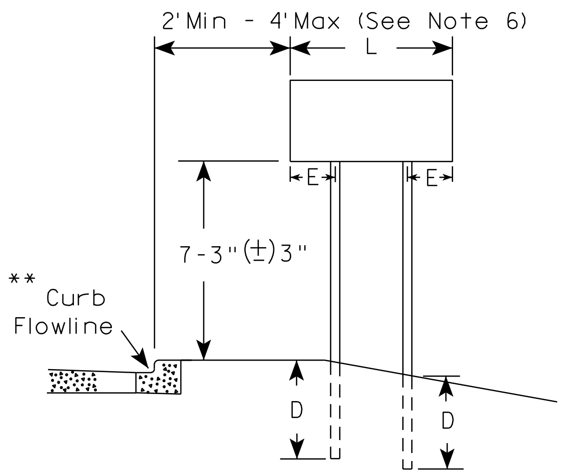
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

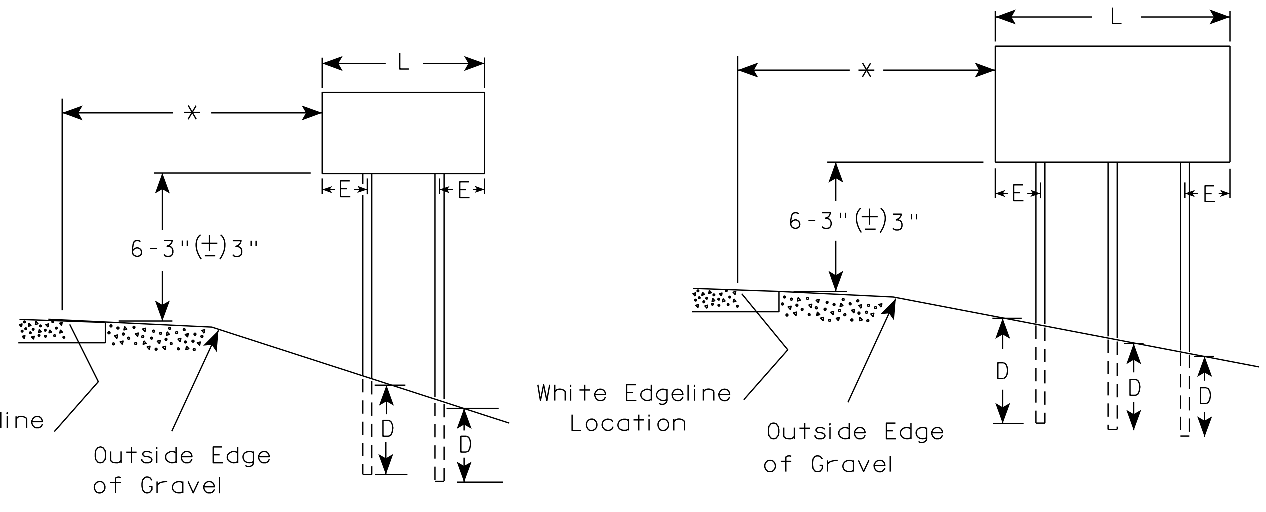
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

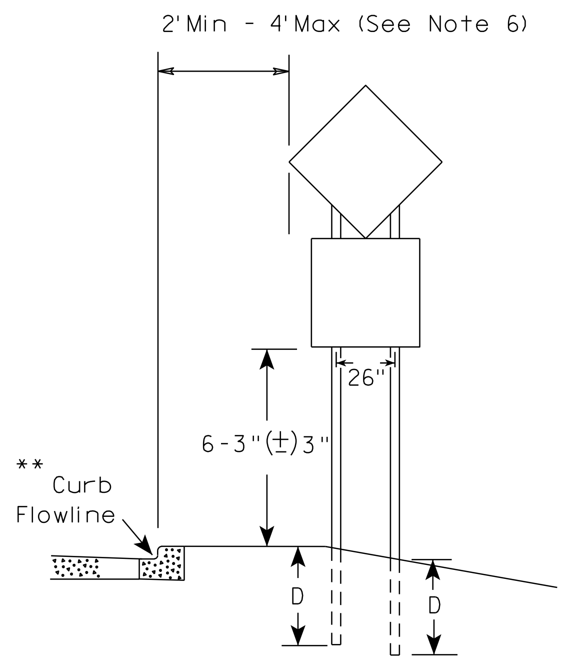
7

URBAN AREA

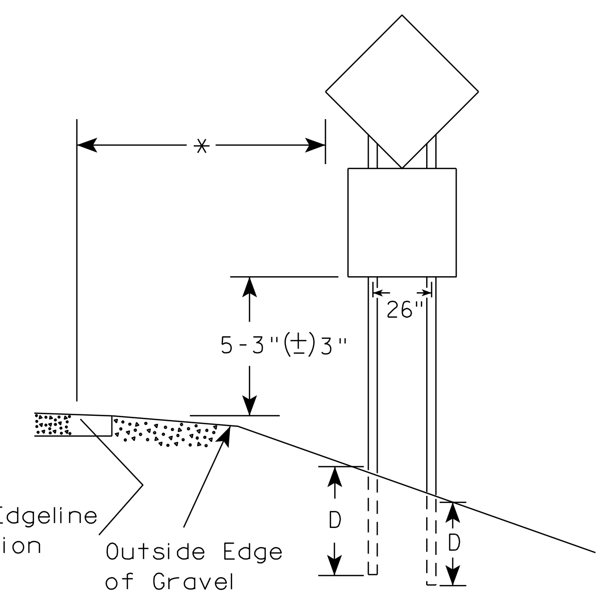


RURAL AREA (See Note 3)





48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

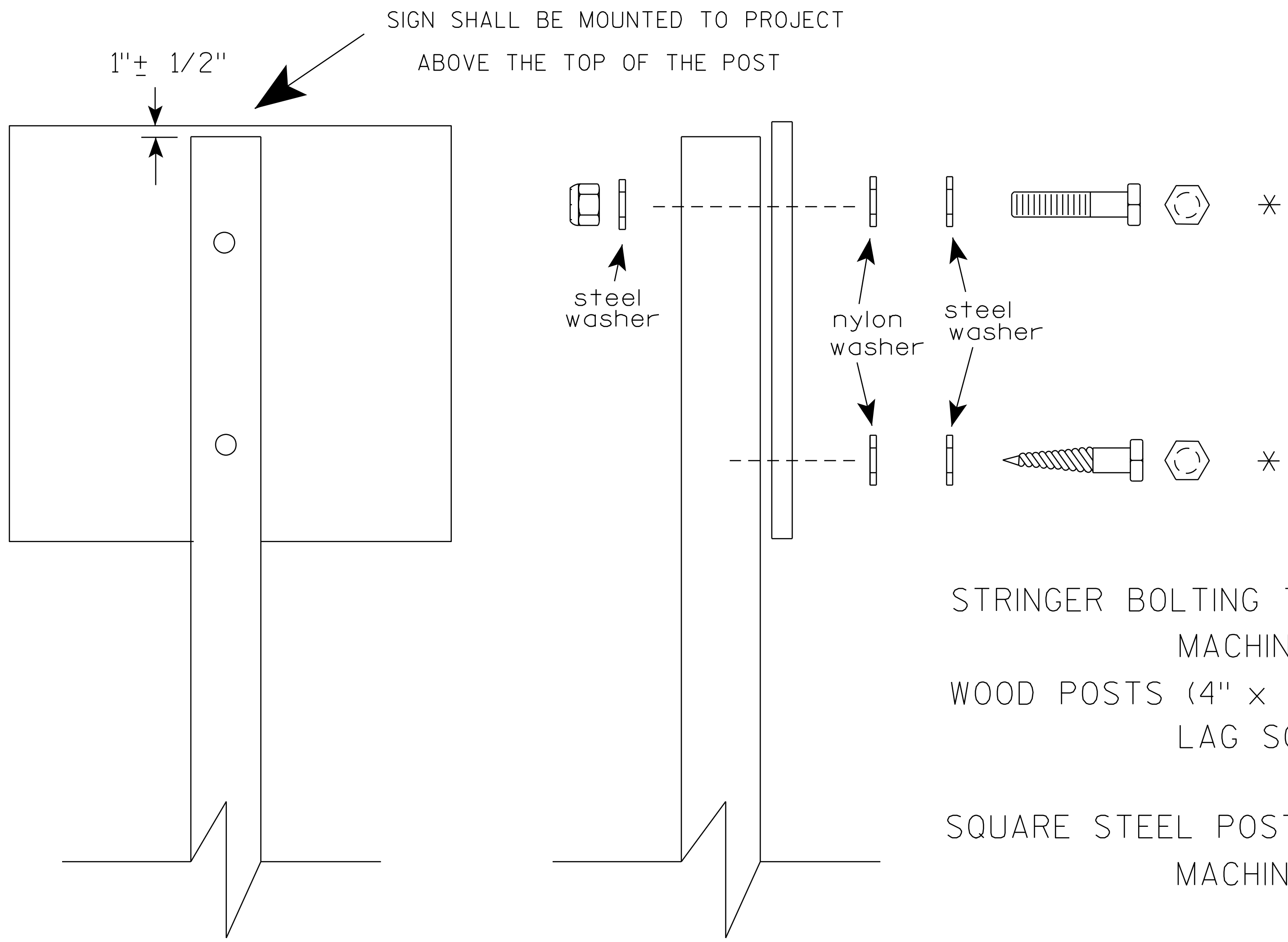
DATE 12/6/23 PLATE NO. A4-4.16

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 122 | E

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn PLOT DATE : 6-DEC 2023 11:31 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

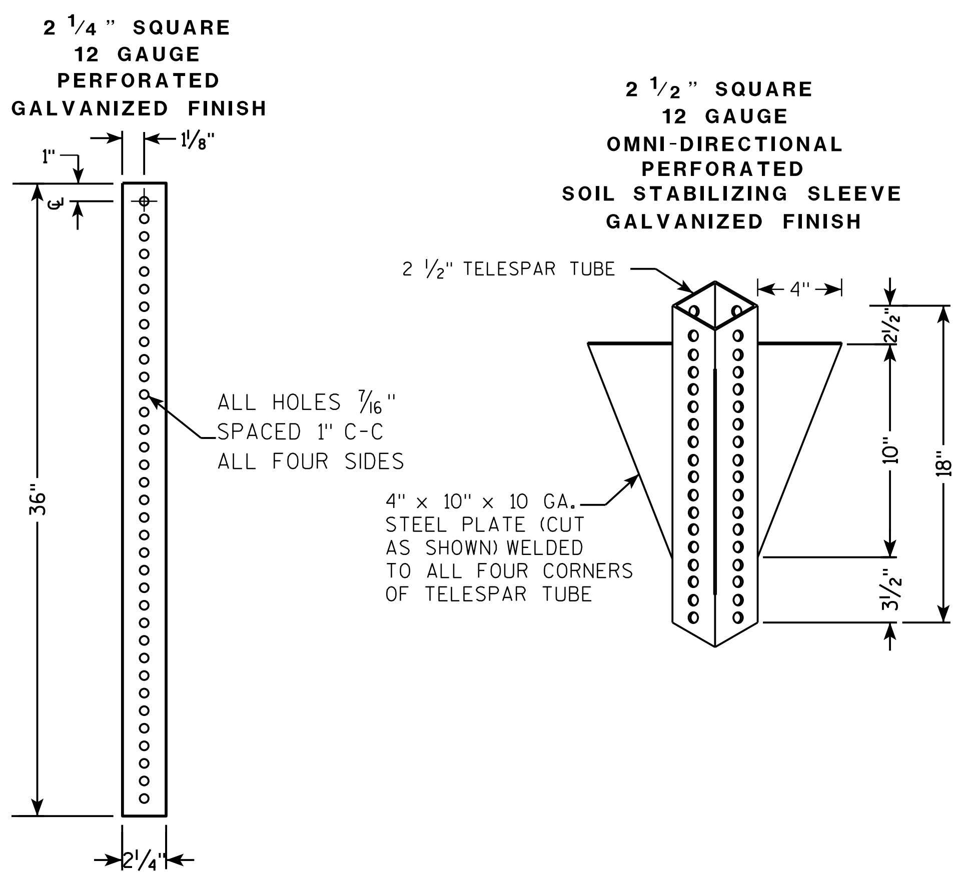
ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED Matthew R Rauch for State Traffic Engineer	
DATE 4/1/2020	PLATE NO. A4-8.9

7

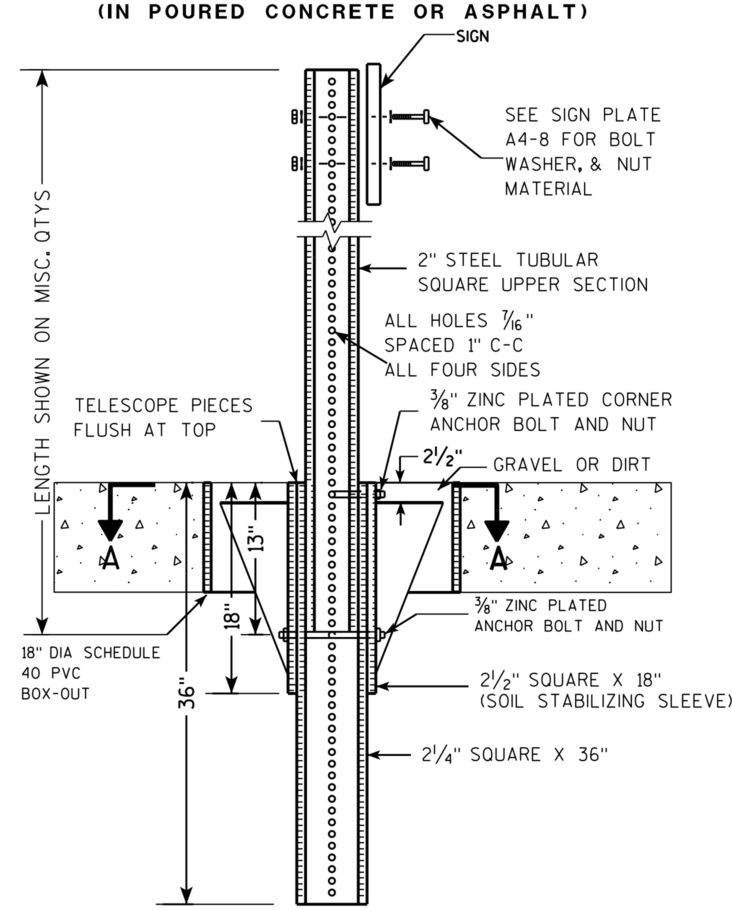
7

PROJECT NO:				SHEET NO: 123	E

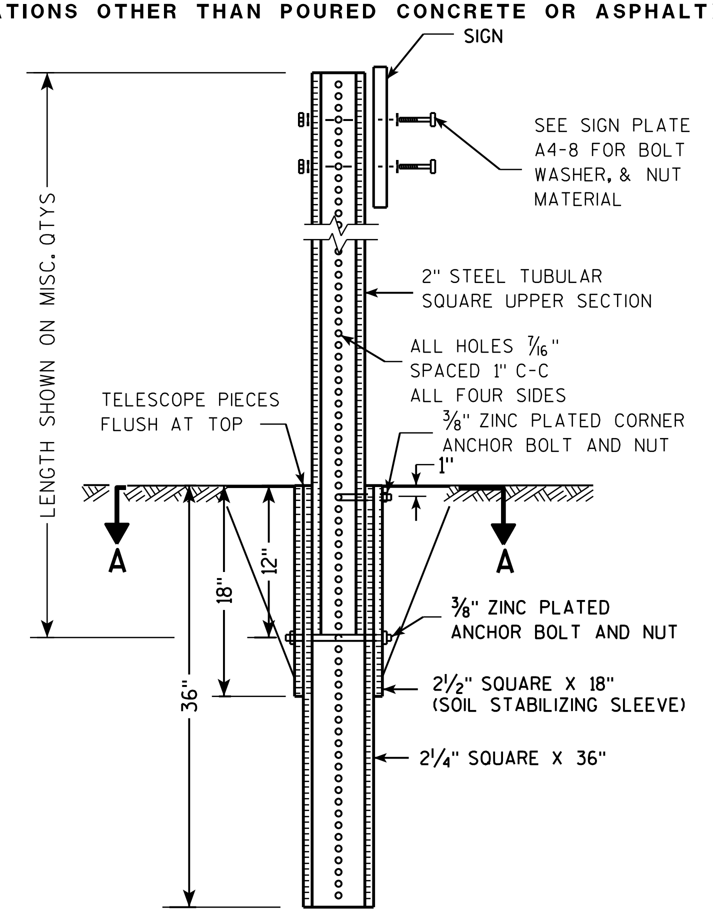
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

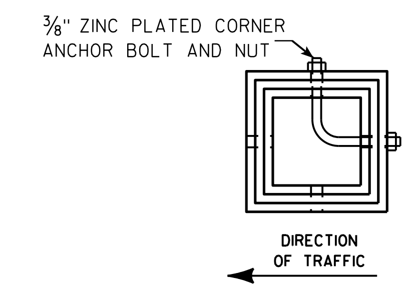


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

7

7

TUBULAR STEEL SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

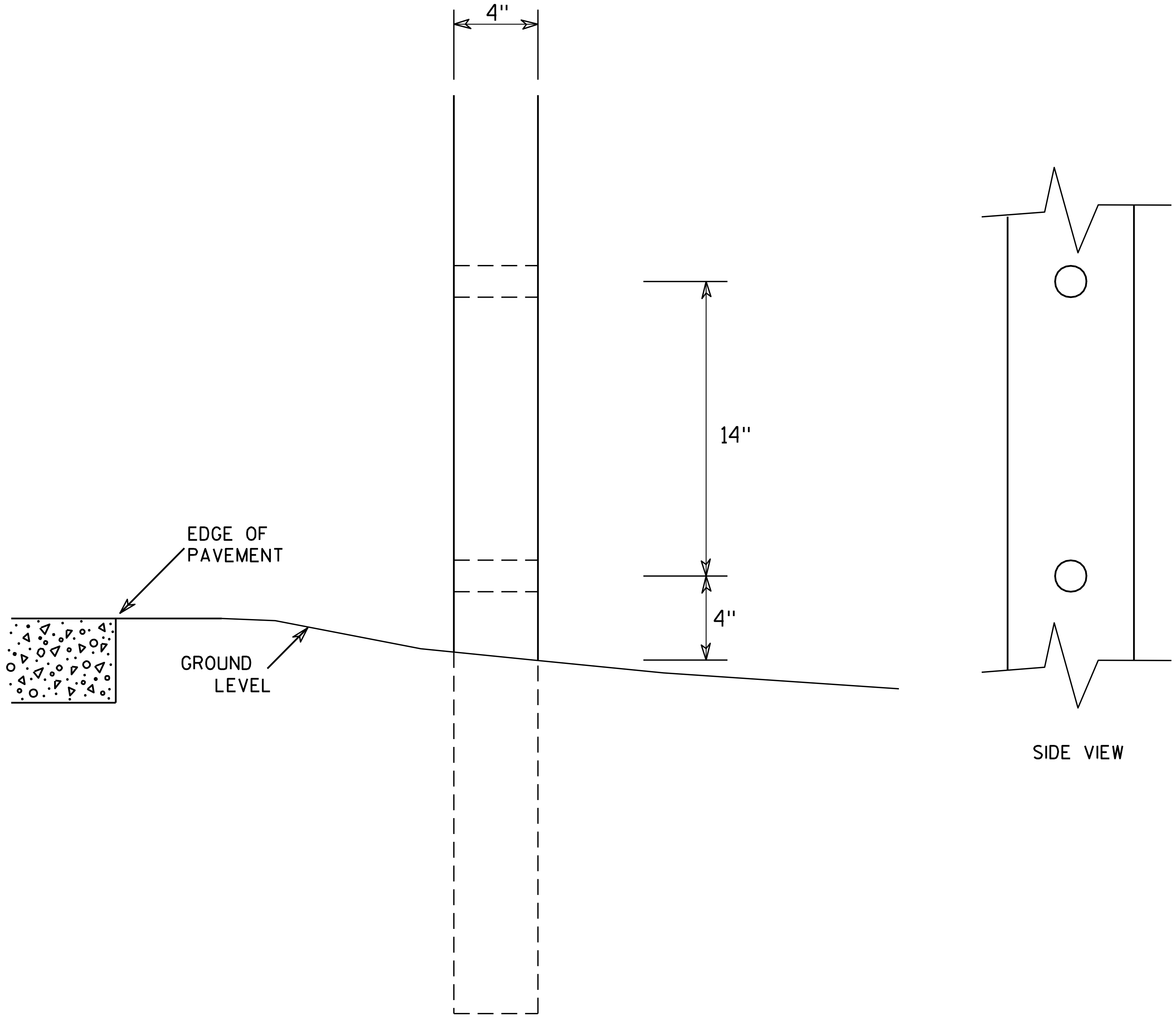
APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

124

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

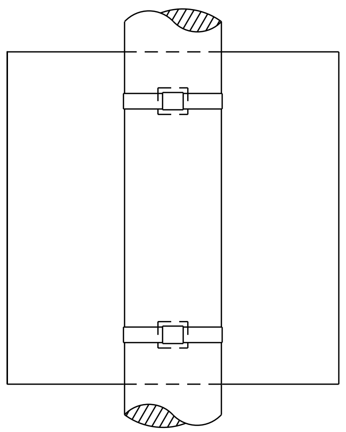
APPROVED Chester J Spang
for State Traffic Engineer

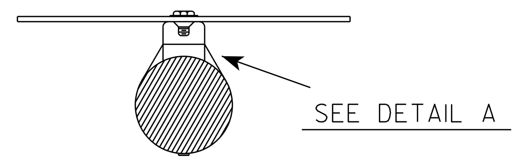
DATE 3/27/97 PLATE NO. A4-11.2

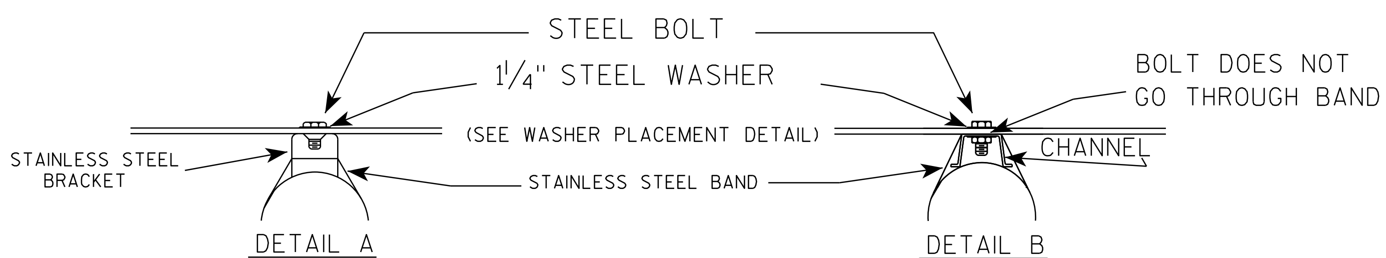
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 125 | E

BANDING

SINGLE SIGN



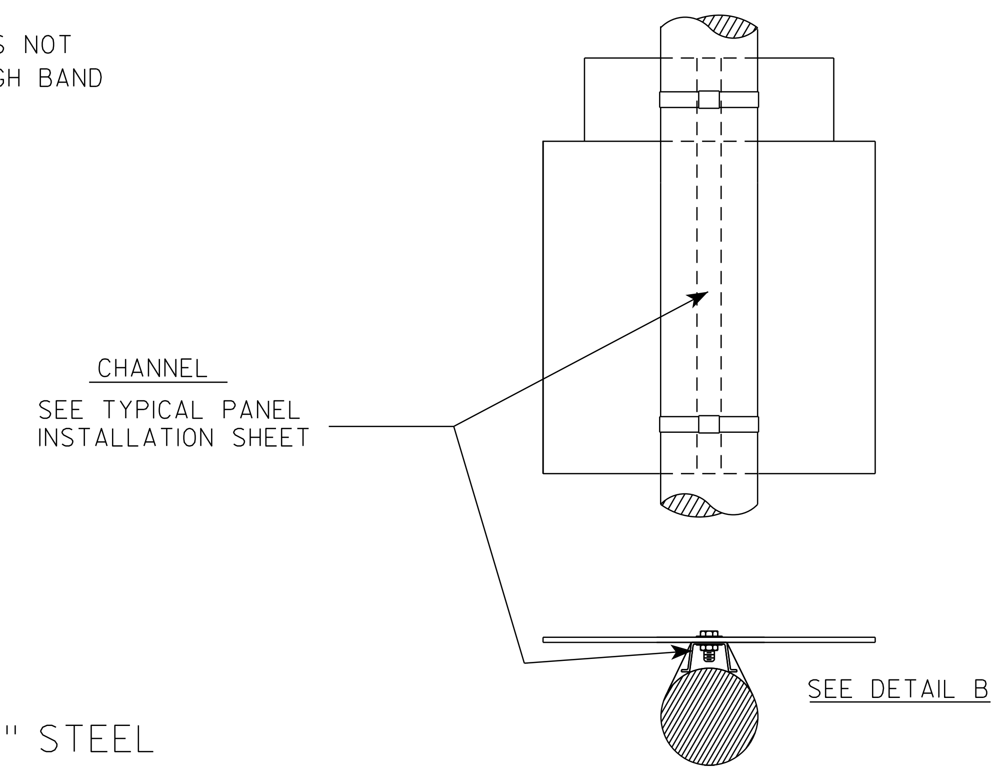




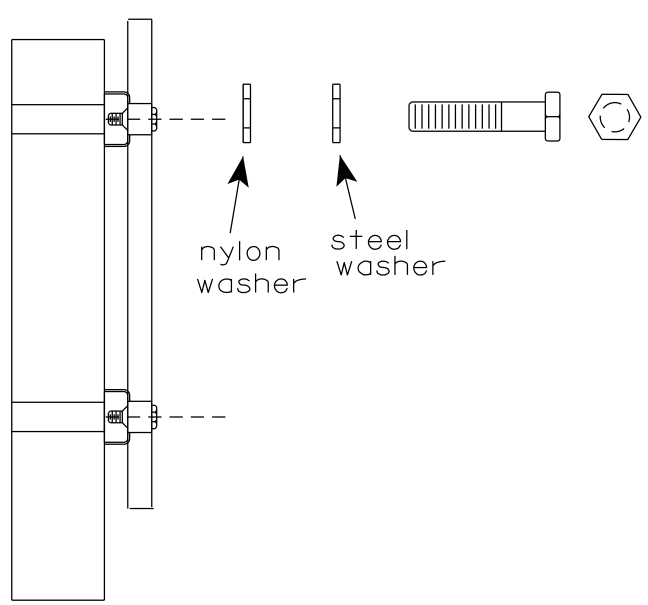
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

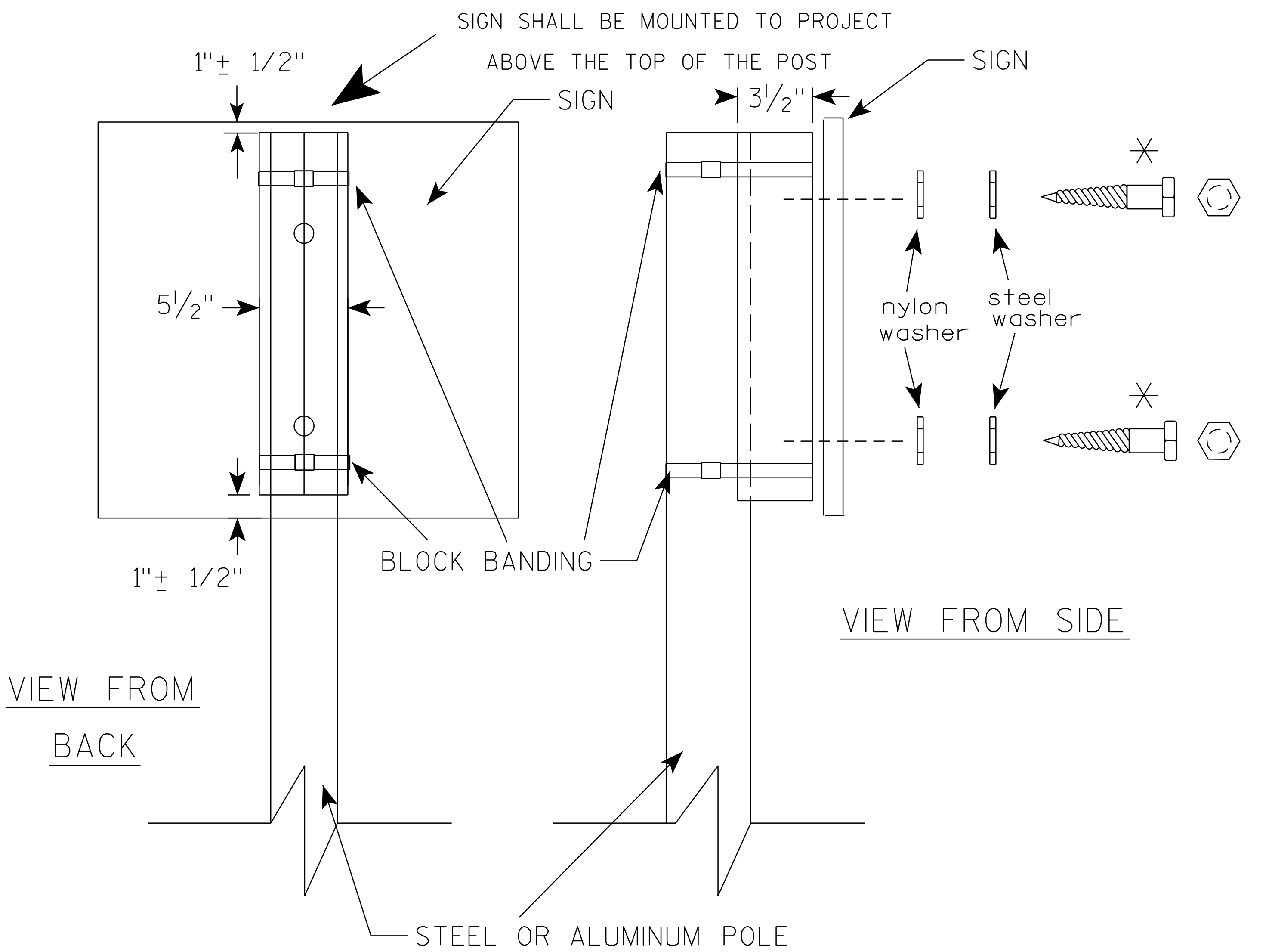
APPROVED Matthew R Rauch for State Traffic Engineer

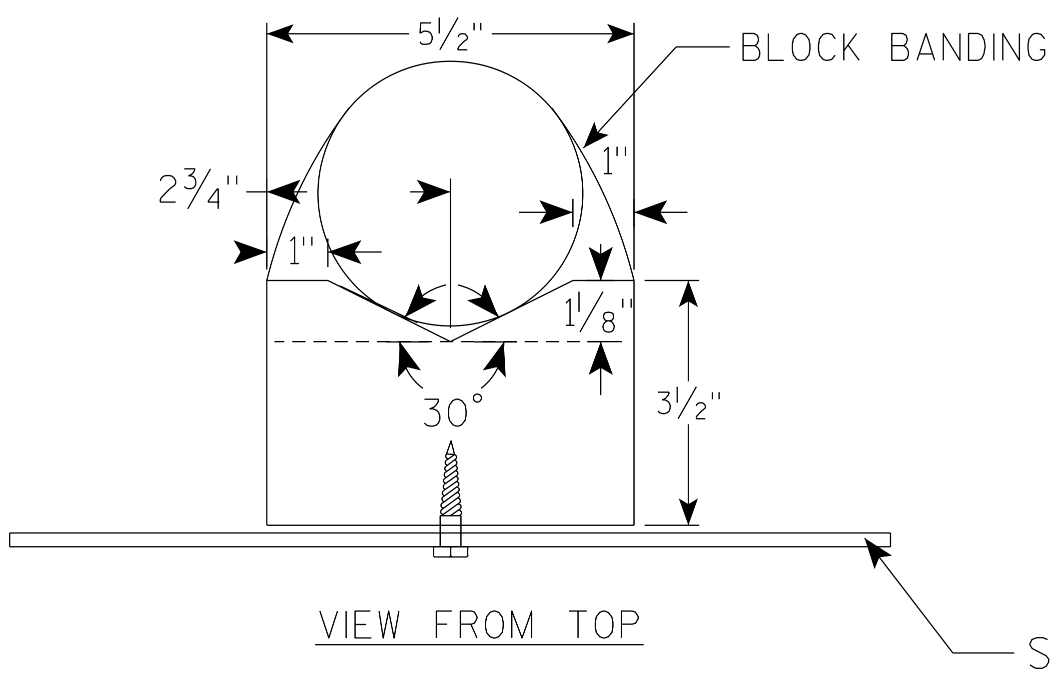
DATE 6/10/19 PLATE NO. A5-9.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 126	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE $1^1/_4$" O.D. X ⅜" I.D. X $^1/_{16}$"
8. NYLON WASHERS SHALL BE $1^1/_4$" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

* LAG BOLTS SHALL BE ⅜" X $2^1/_2$"

7

7

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

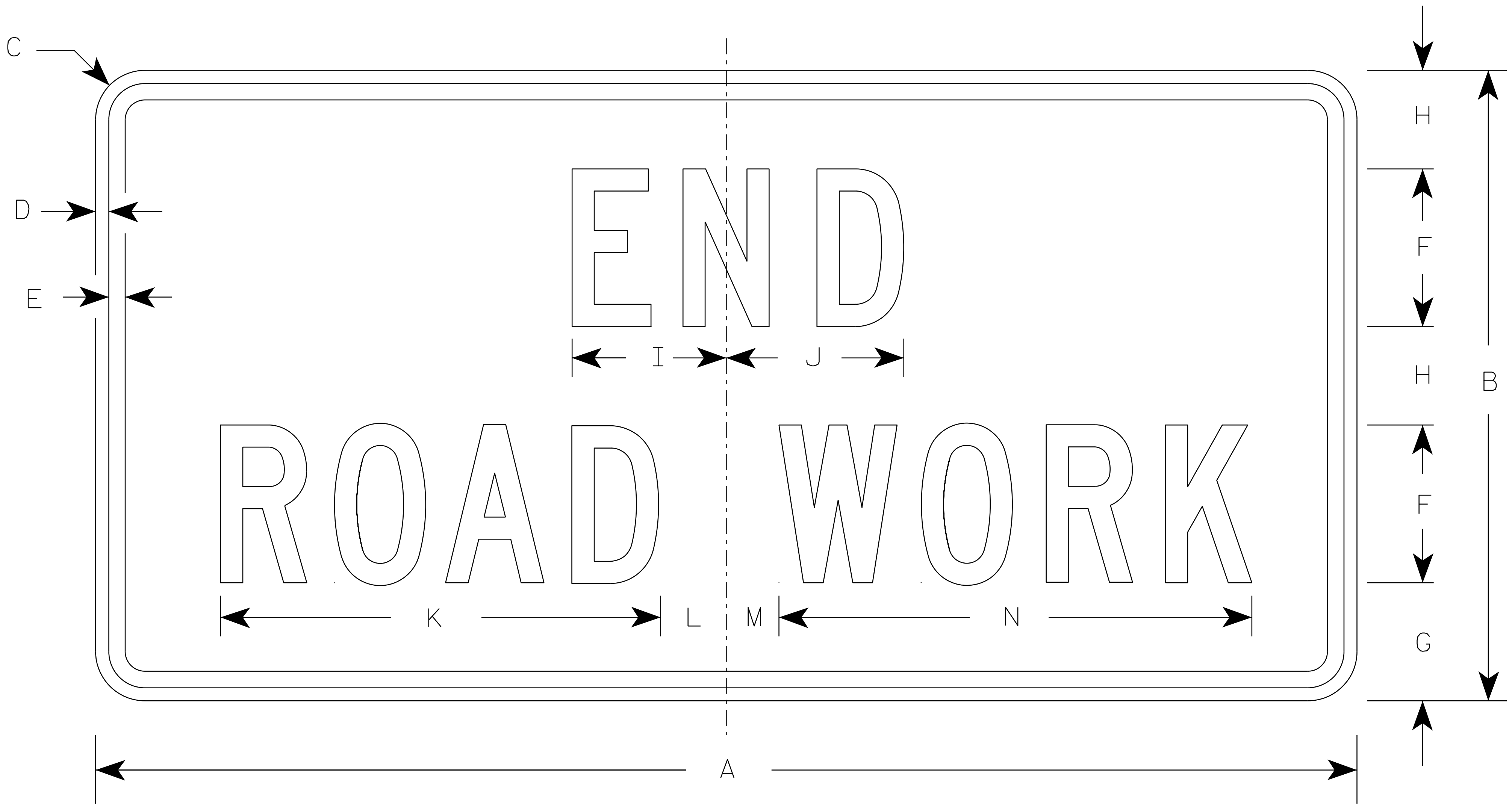
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:				SHEET NO: 127	E

7



G20-2A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

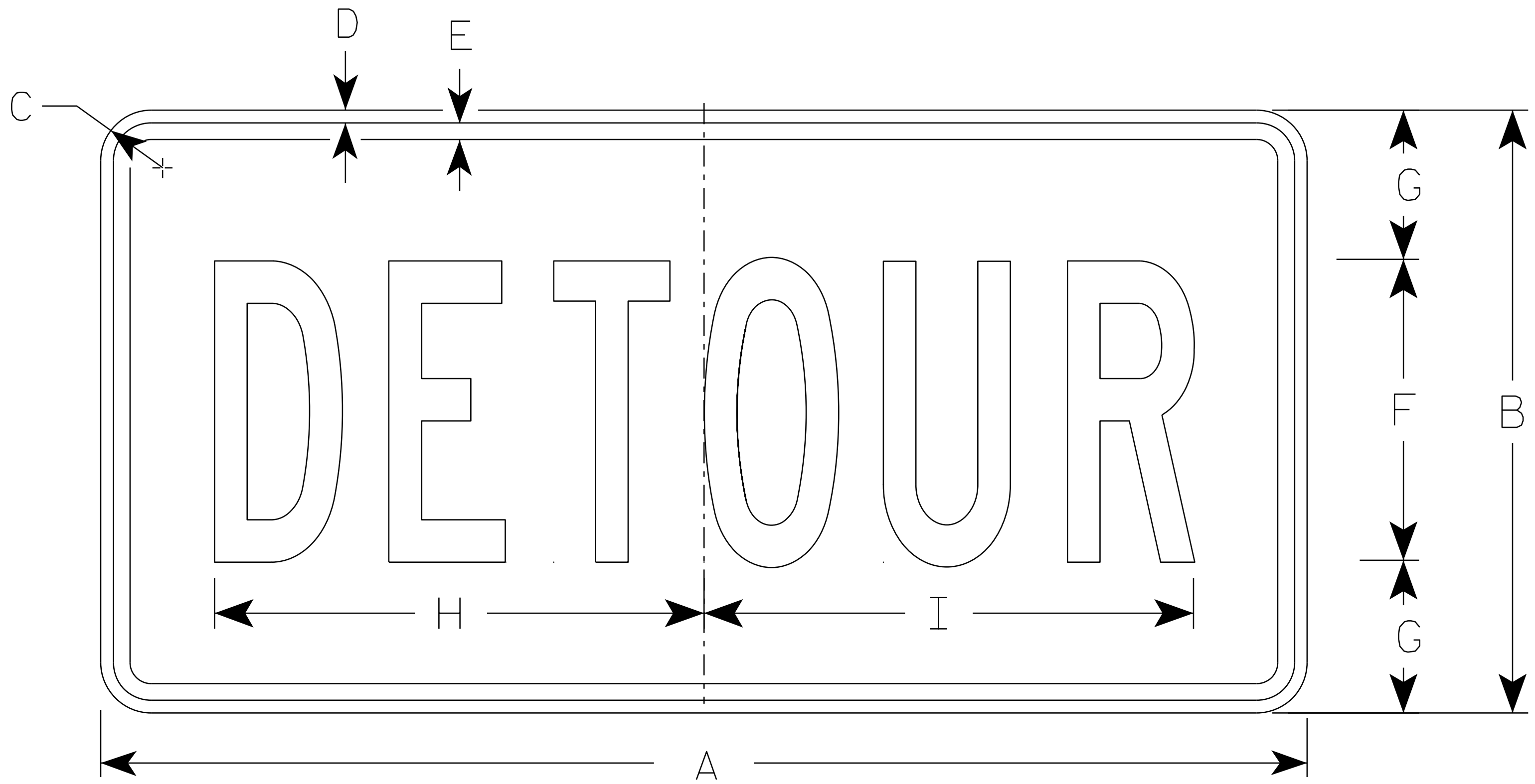
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: HWY: COUNTY: SHEET NO: 128 E



M4-8

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

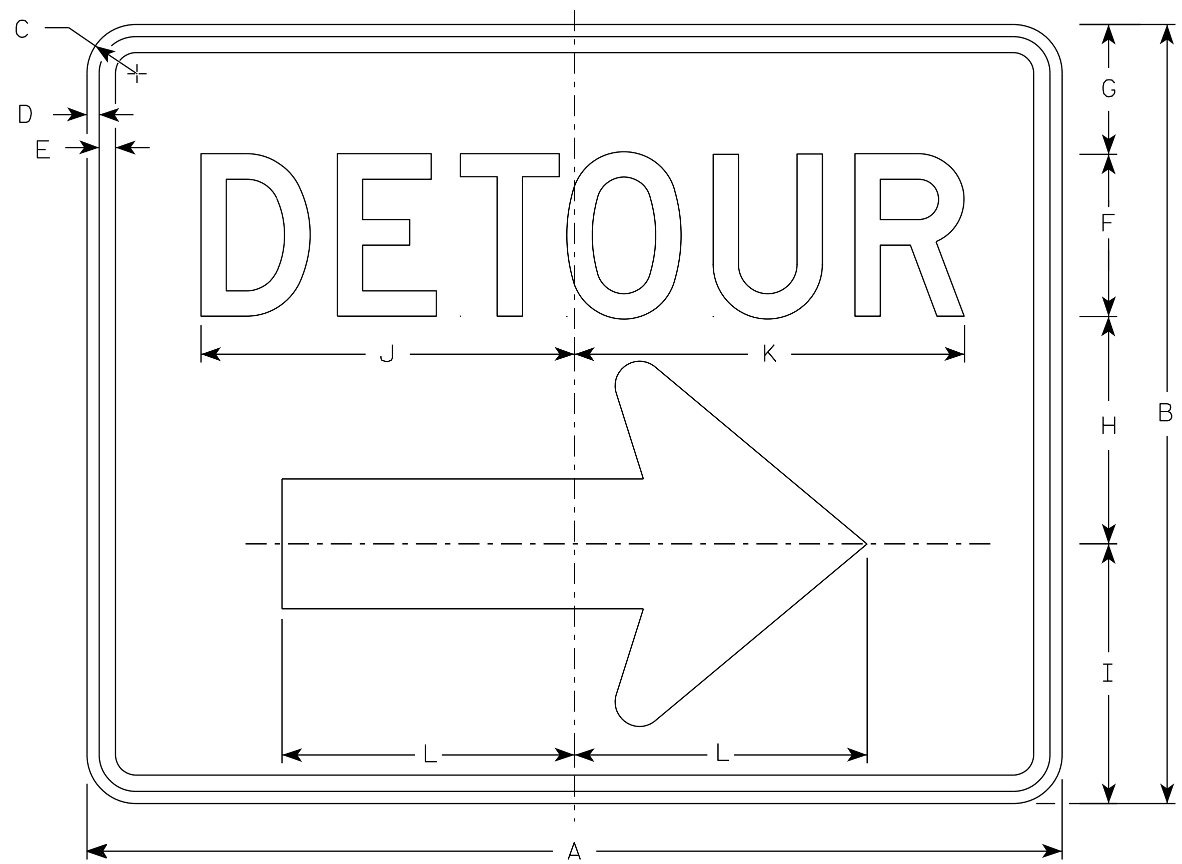
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

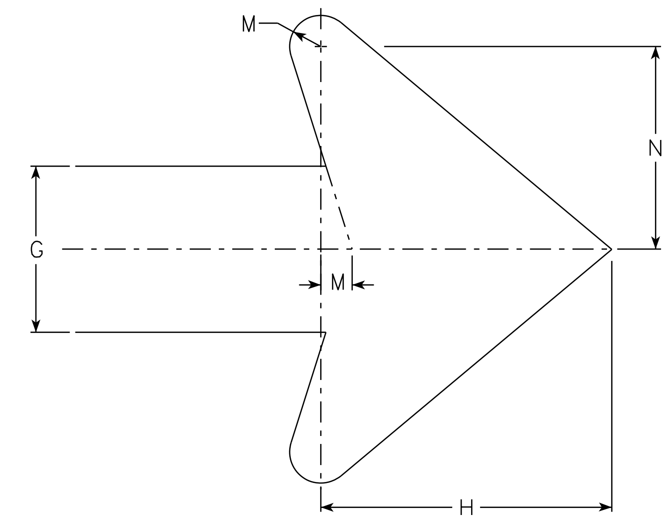
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

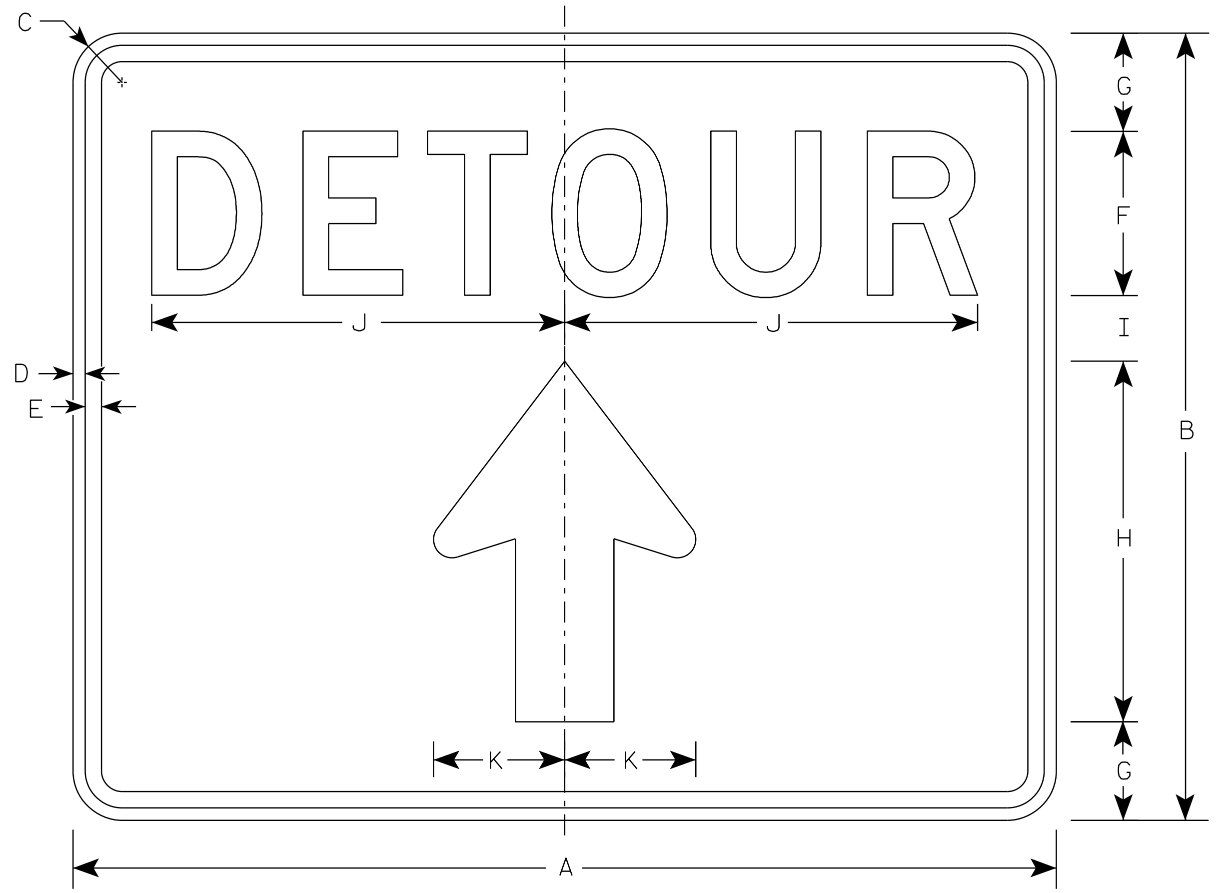
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9R.6

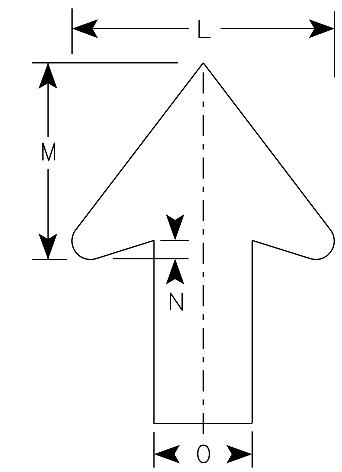
PROJECT NO: HWY: COUNTY: SHEET NO: E

NOTES

1. Sign is Type II-Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



M4-9RA



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	3/8	1/2	5	3	11	2	12 5/8	4	8	6	1/2	3												5.00
2M	30	24	1 1/2	3/8	1/2	5	3	11	2	12 5/8	4	8	6	1/2	3												5.00
3																											
4																											
5																											

STANDARD SIGN
M4-9RA

WISCONSIN DEPT OF TRANSPORTATION

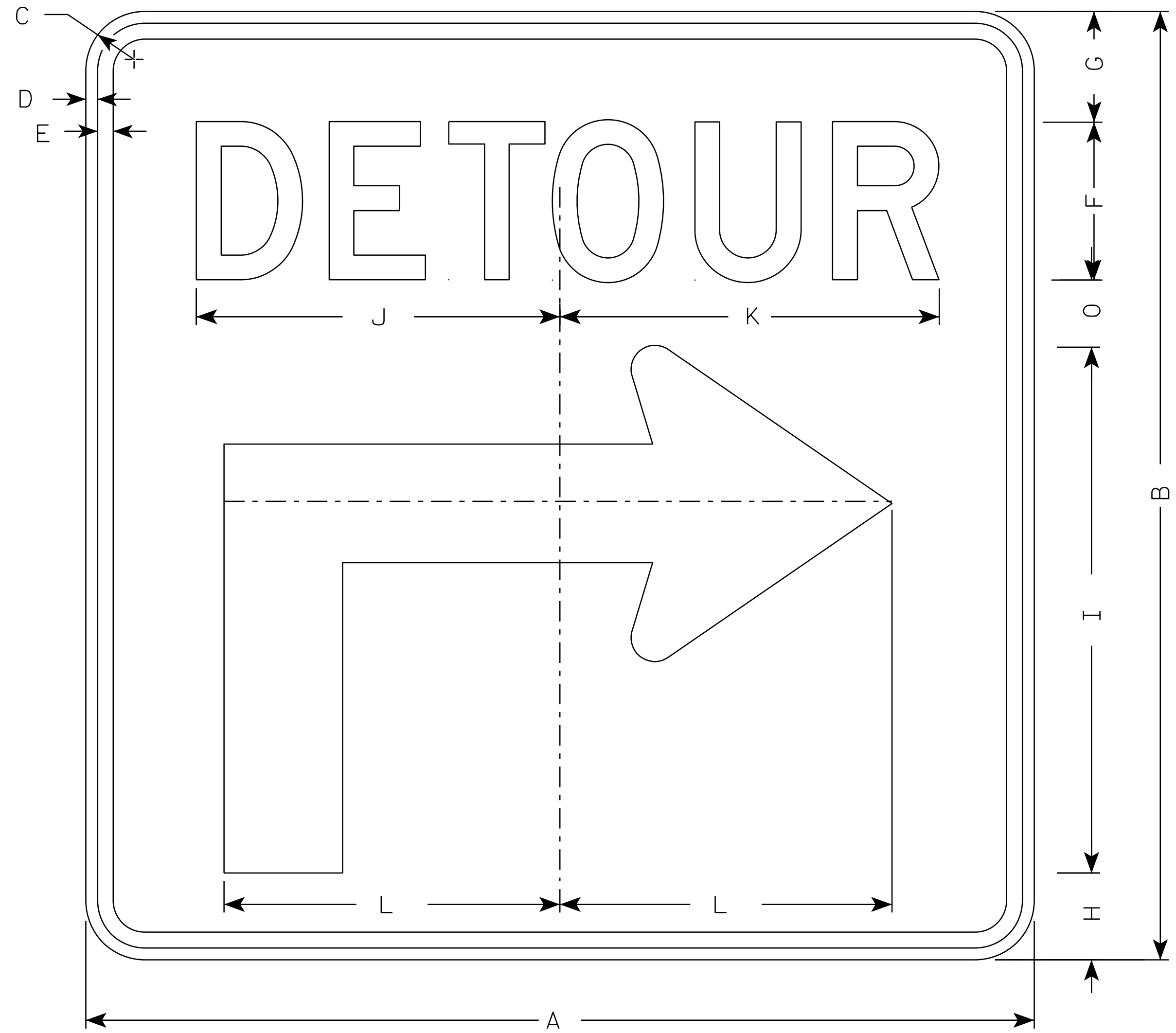
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9RA.3

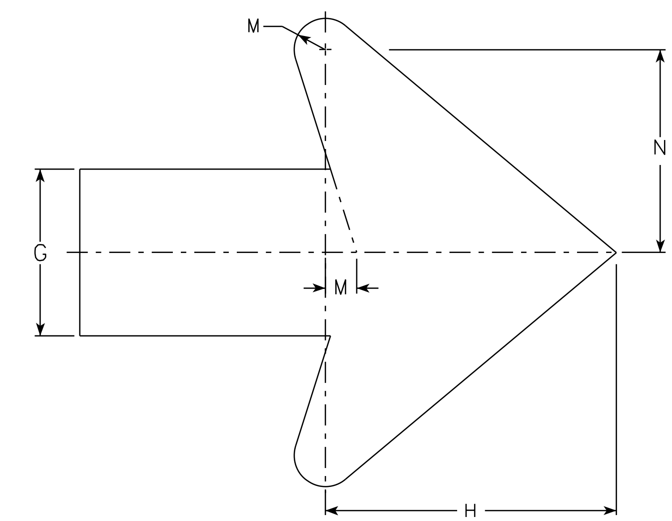
PROJECT NO: HWY: COUNTY: SHEET NO: 131 E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown when base material is metal.
5. M4-59L is the same as M4-59R except the arrow is reversed.



M4-59R



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
2M	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
3	30	30	1 7/8	3/8	1/2	5	3 1/2	2 3/4	16 5/8	11 1/2	12	10 1/2	3/4	4 7/8	2 1/8												6.25
4	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/8	6 7/8	3 3/8												16.0
5	48	48	2 1/4	1/2	5/8	8	5 5/8	4 3/8	26 5/8	20 5/8	20 1/2	17	1 1/8	6 7/8	3 3/8												16.0

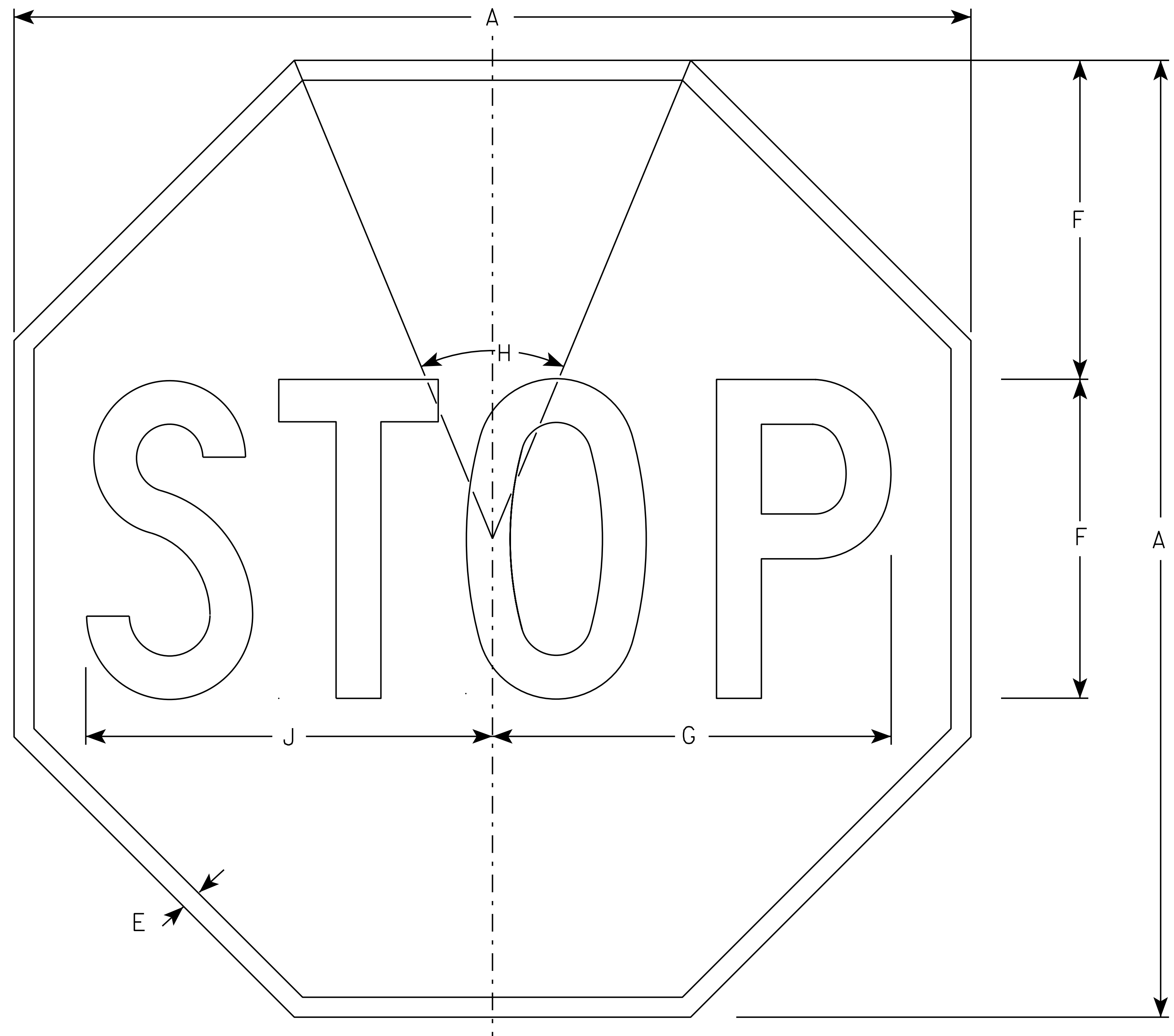
STANDARD SIGN
M4-59 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M4-59.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



R1-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

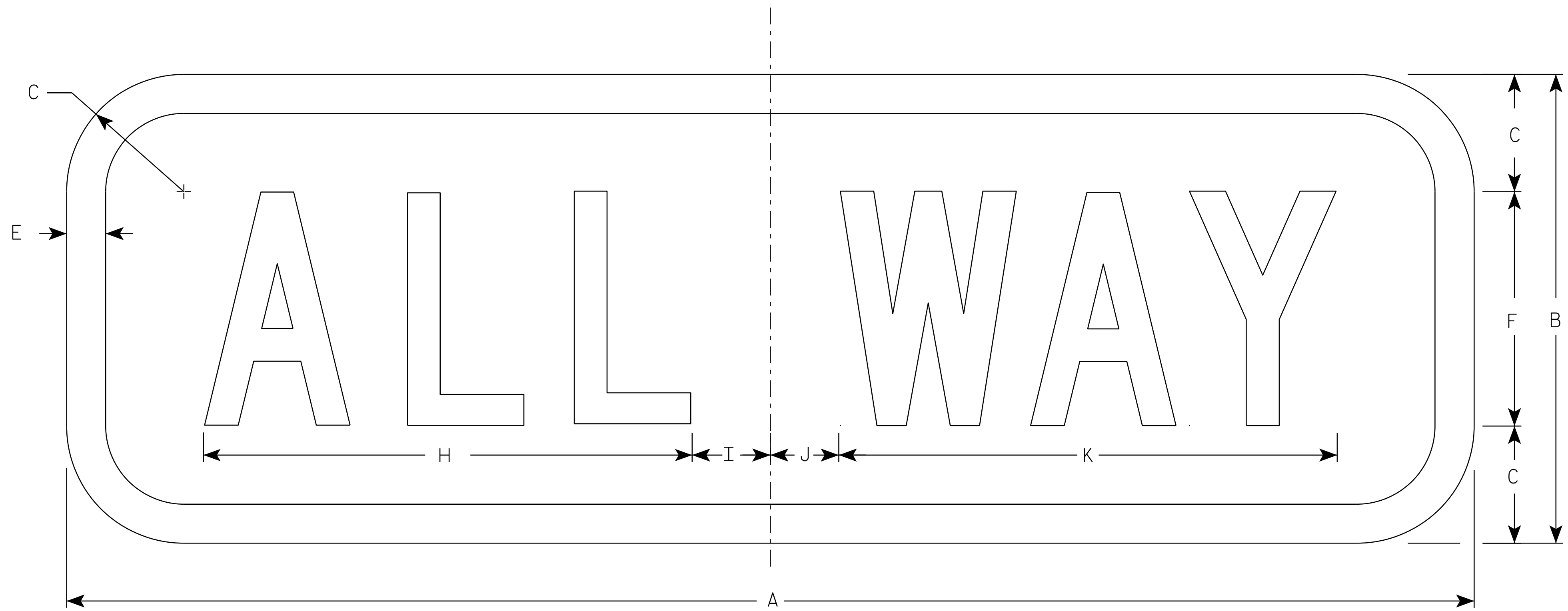
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO: HWY: COUNTY: SHEET NO: 133 E



R1-3P

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	1 1/2		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	1 1/2		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5

STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

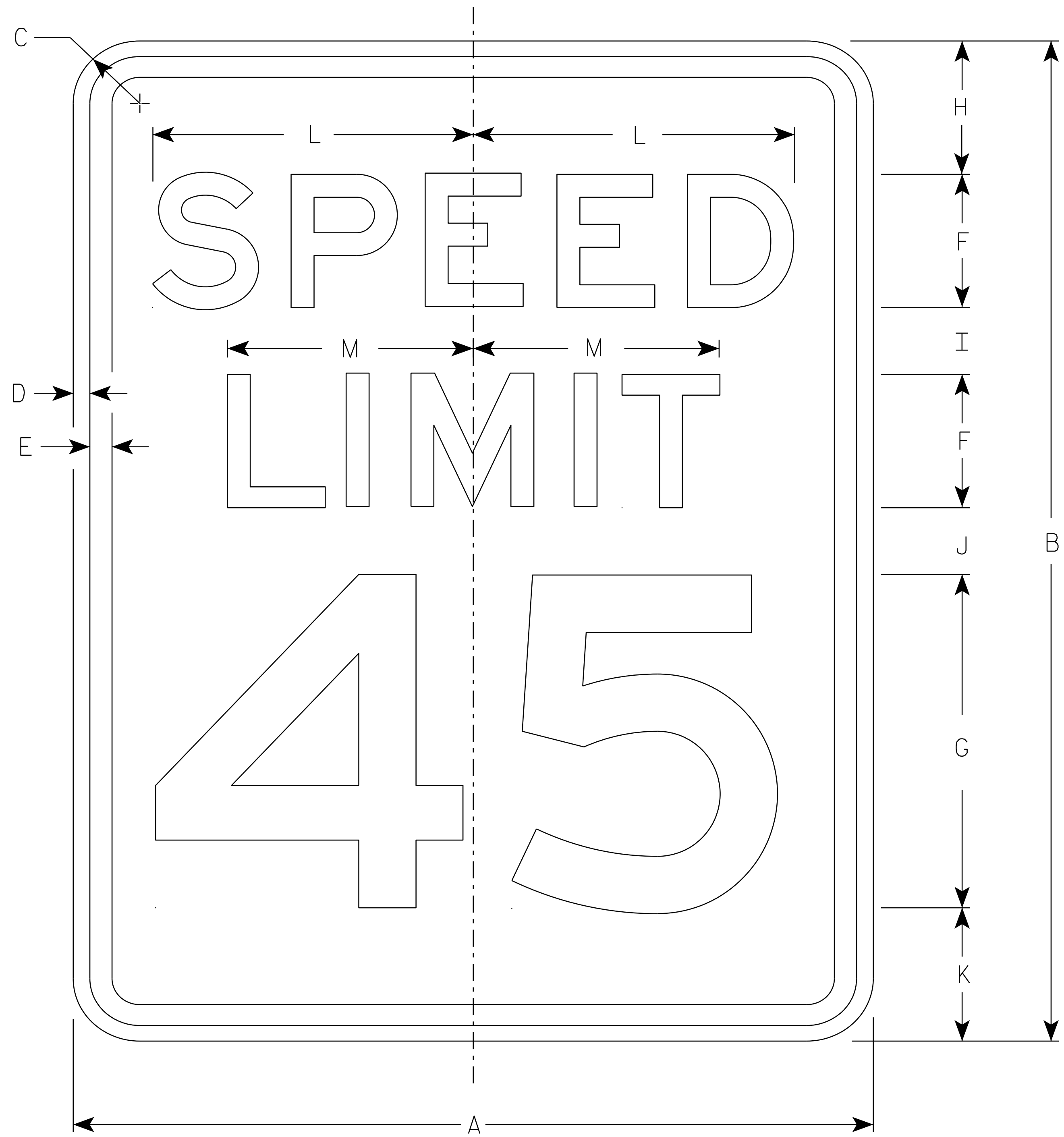
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/19/23 PLATE NO. R1-3P.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 134 | E

7

7



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

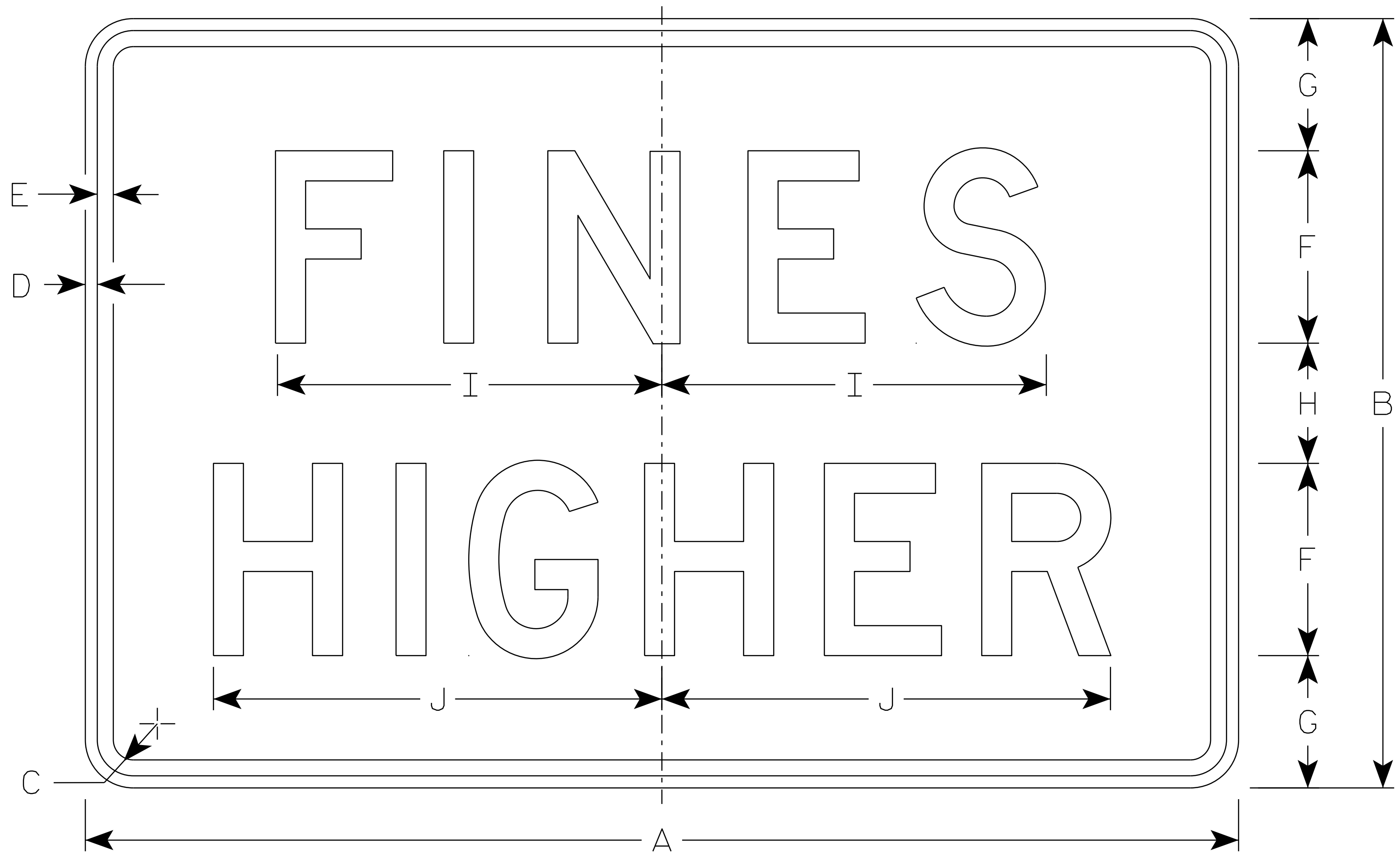
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 135 | E

7

7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



R2-6P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/2	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/2	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/2	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/2	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 7/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

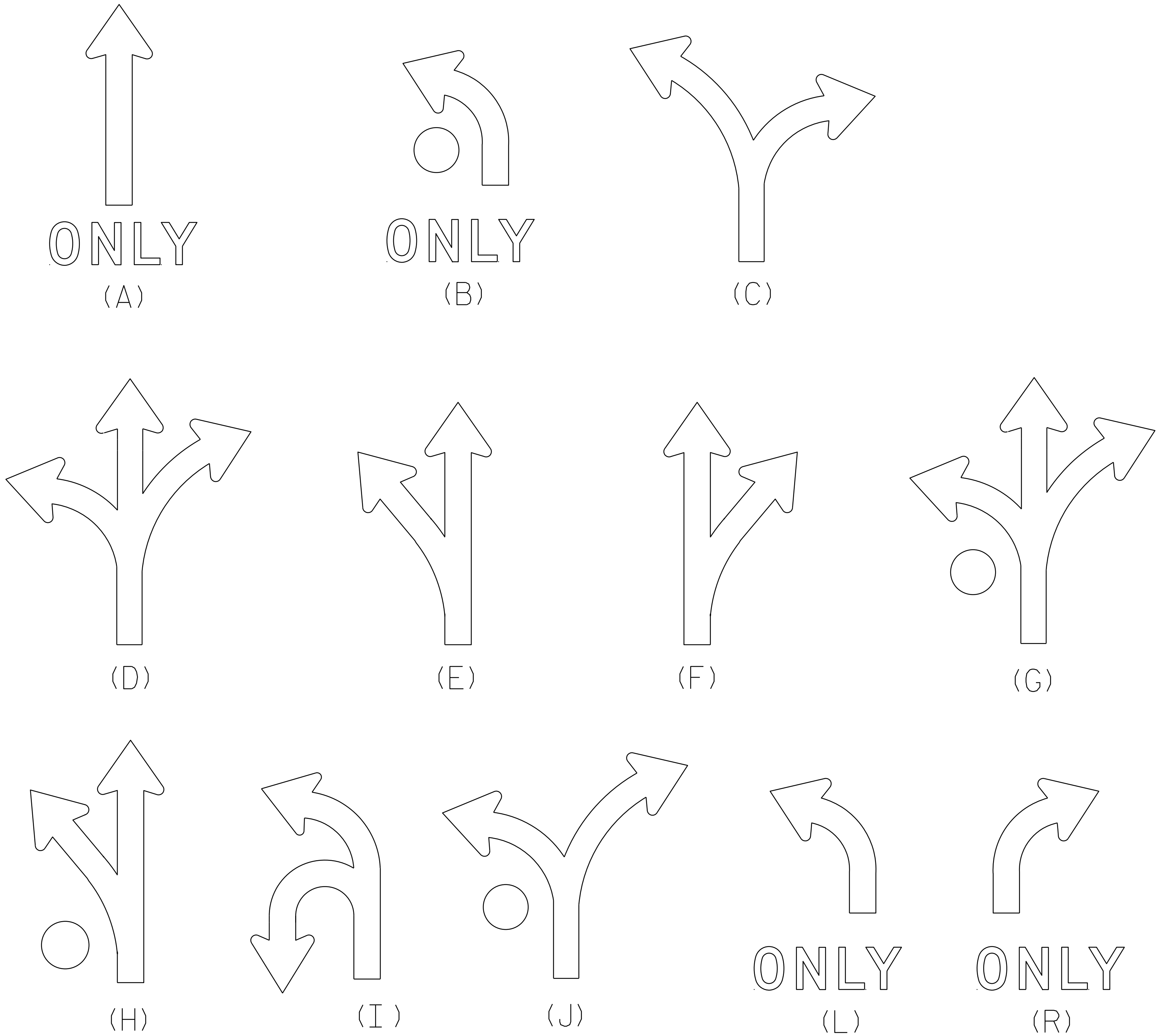
DATE 2/1/23 PLATE NO. R2-6P.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 136 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R26P.dgn PLOT DATE : 1-FEB 2023 8:48 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7



NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1 Letter =	3.75 sq ft for Size 2
	6.0 sq ft for Size 3
	10.0 sq ft for Size 4 or 5
2 Letters =	7.5 sq ft for Size 2
	12.0 sq ft for Size 3
	20.0 sq ft for Size 4 or 5
3 Letters =	11.25 sq ft for Size 2
	18.0 sq ft for Size 3
	30.0 sq ft for Size 4 or 5
4 Letters =	15.0 sq ft for Size 2
	24.0 sq ft for Size 3
	40.0 sq ft for Size 4 or 5
5 Letters =	18.75 sq ft for Size 2
	30.0 sq ft for Size 3
	50.0 sq ft for Size 4 or 5
6 Letters =	22.5 sq ft for Size 2
	36.0 sq ft for Size 3
	60.0 sq ft for Size 4 or 5

6. When letters C,D,G,J are used on the Left or Right end of the sign the Sq. Ft. changes. Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

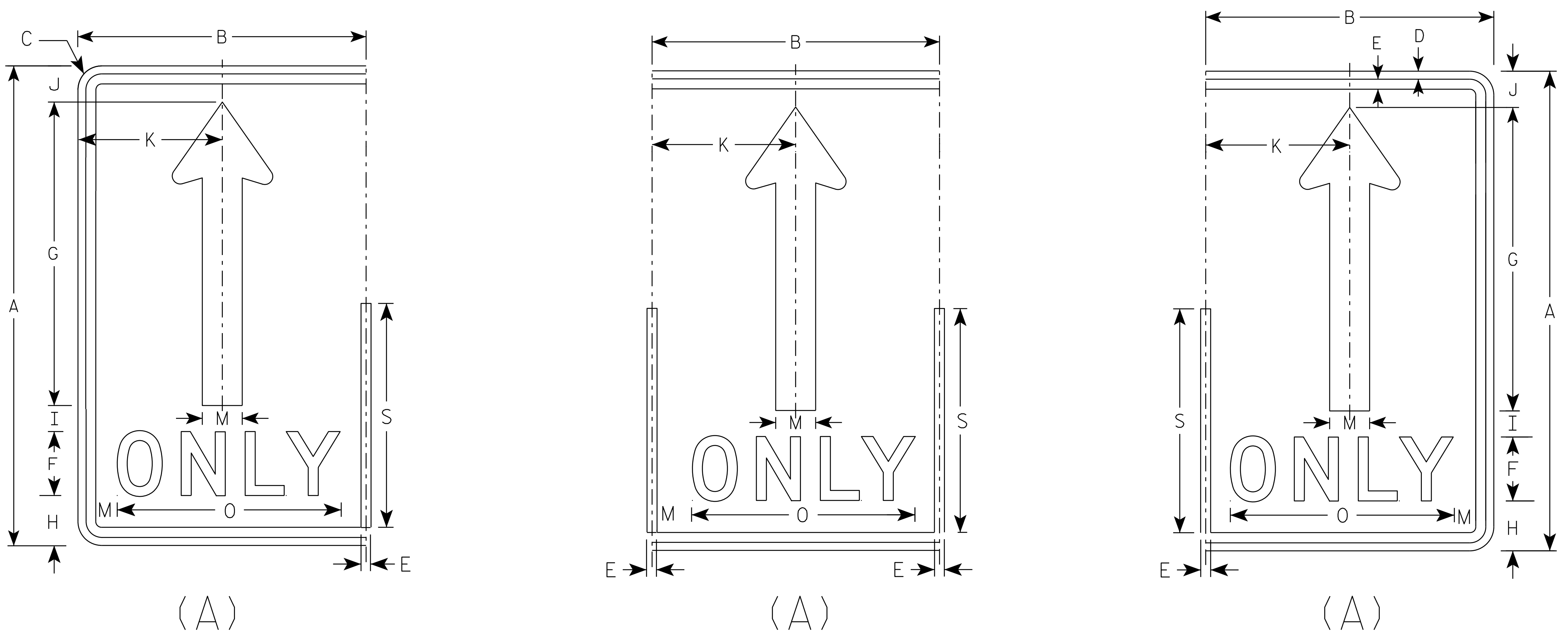
DATE 2/14/23 PLATE NO. R3-8.2

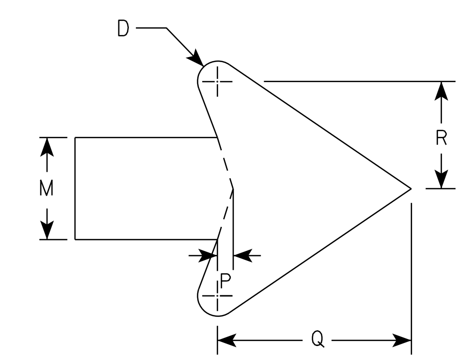
PROJECT NO: SHEET NO: 137 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:01 PLOT BY : mscj9h PLOT NAME :

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

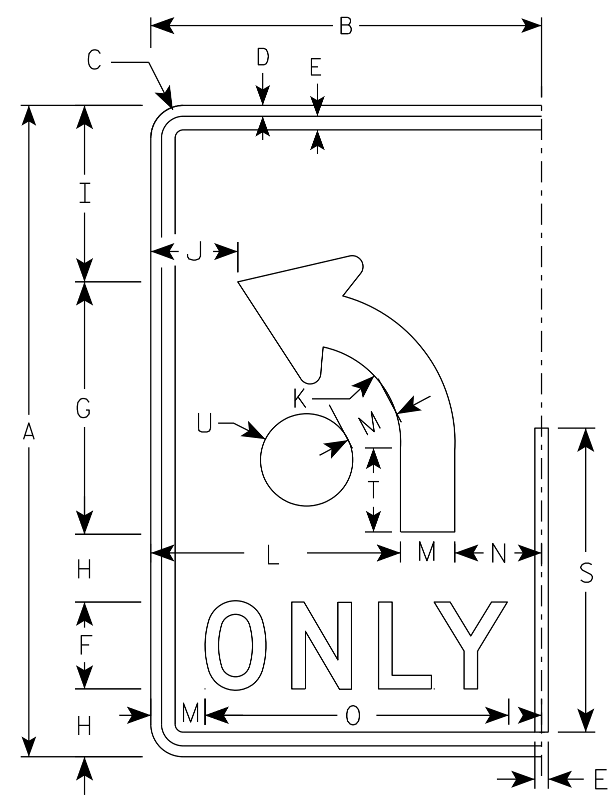
PROJECT NO: HWY: COUNTY: SHEET NO: 138 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:04 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

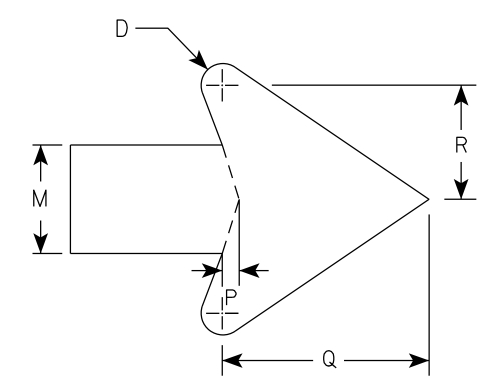
7 7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN
R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO:

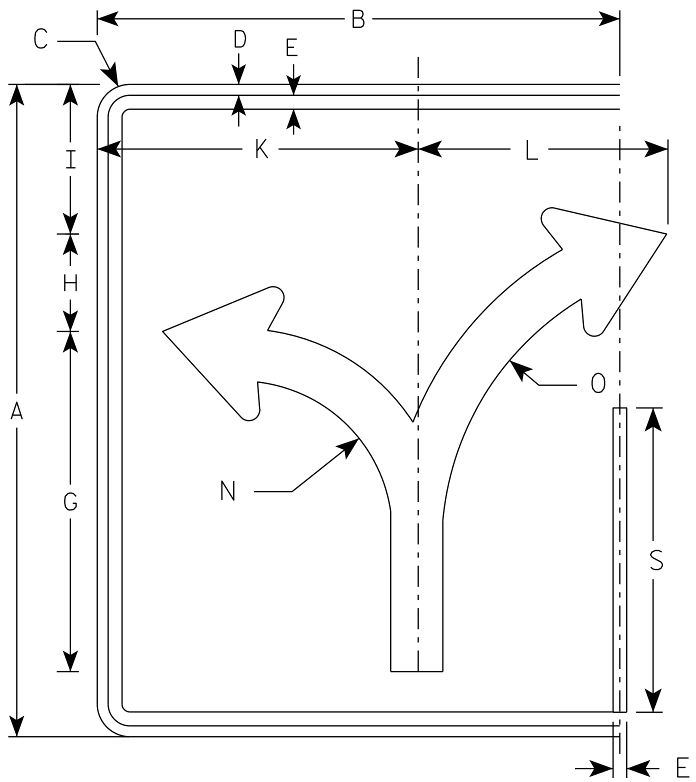
SHEET NO: 139 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:19 PLOT BY : mscj9h PLOT NAME :

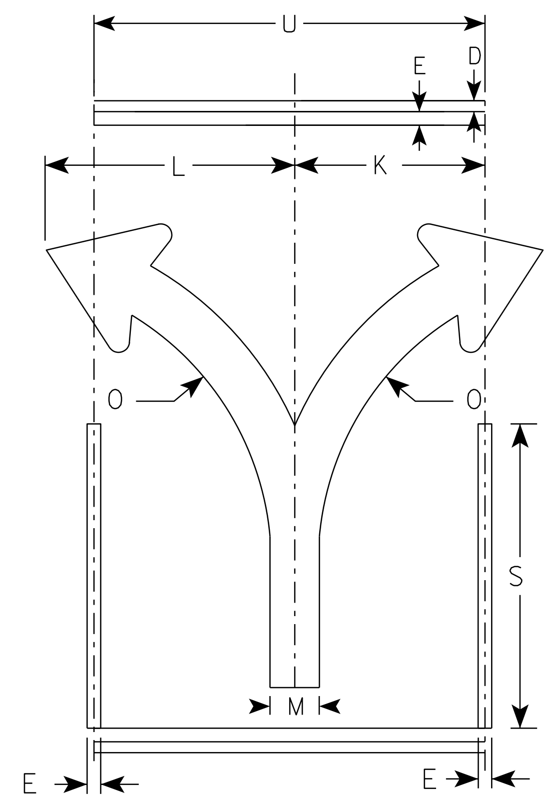
7

NOTES

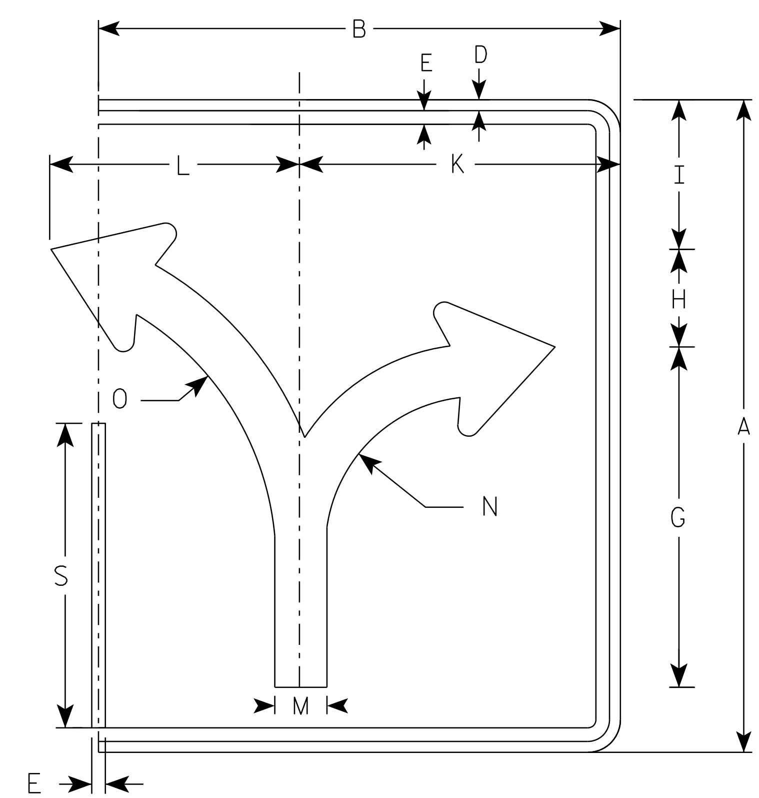
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



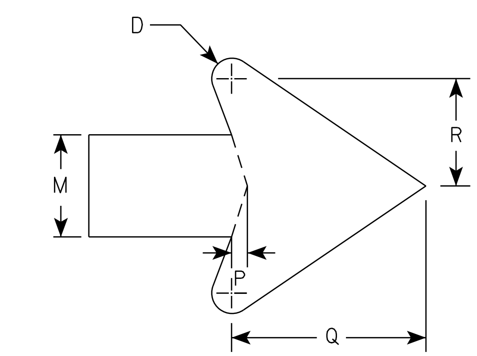
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

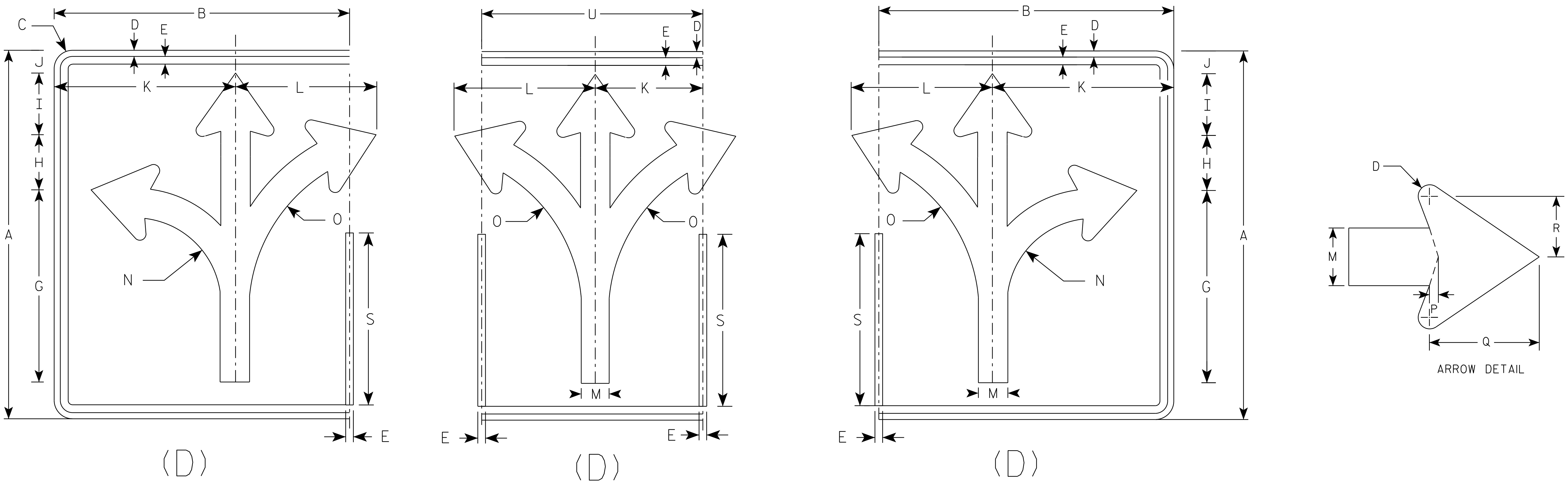
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 140 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

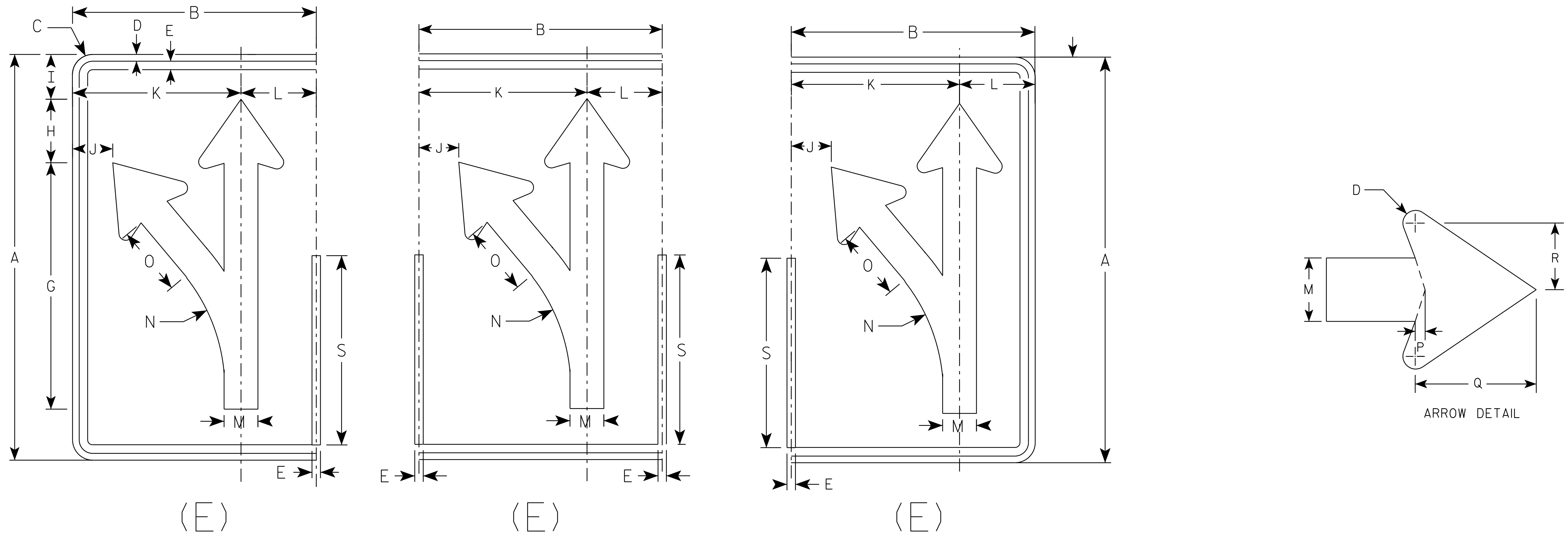
DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 141 | E

7 7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

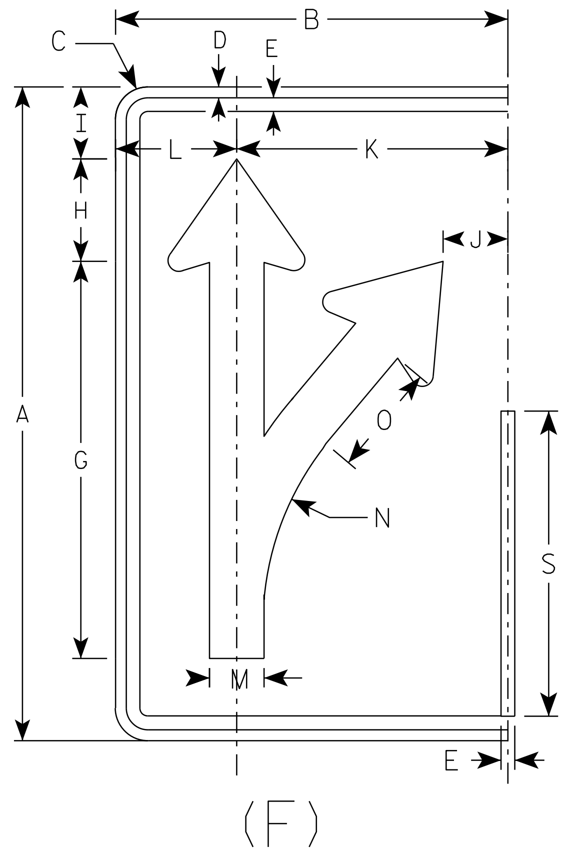
DATE 2/14/23 PLATE NO. R3-8.2

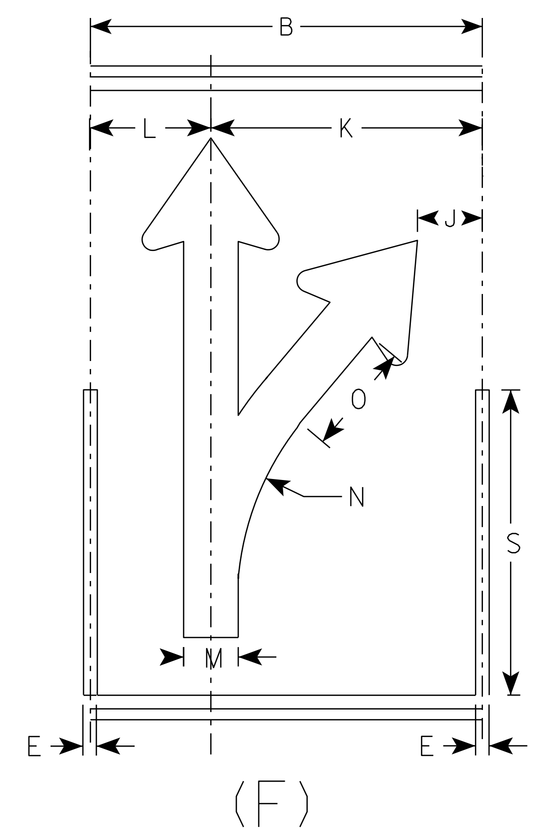
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 142 | E

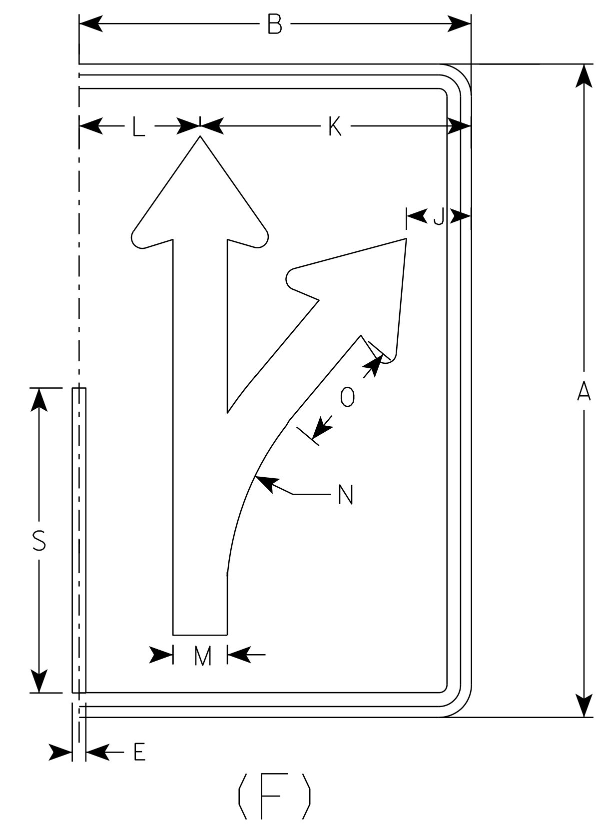
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:07 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

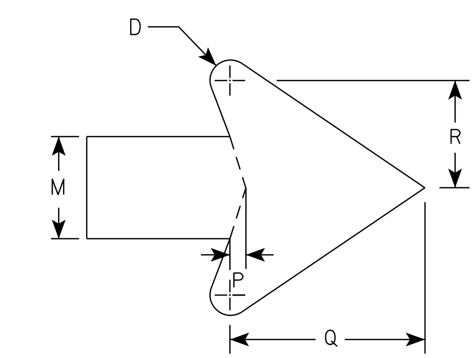
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None









ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

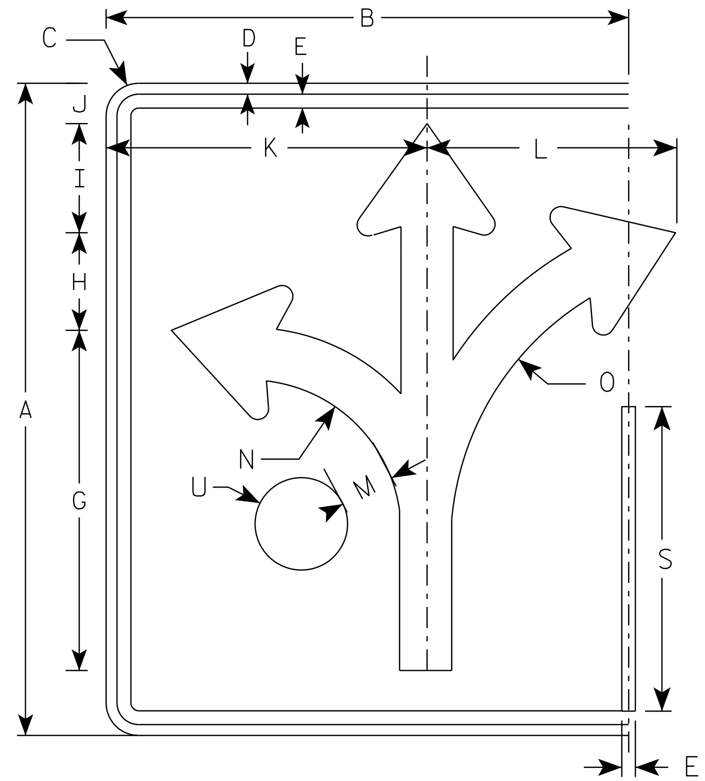
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

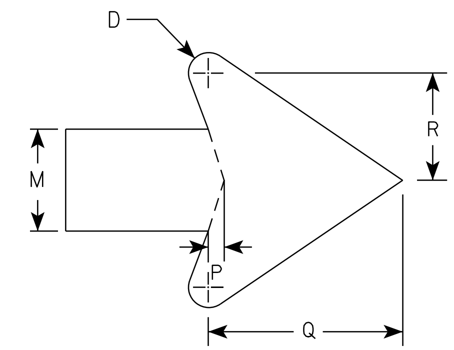
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 143 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

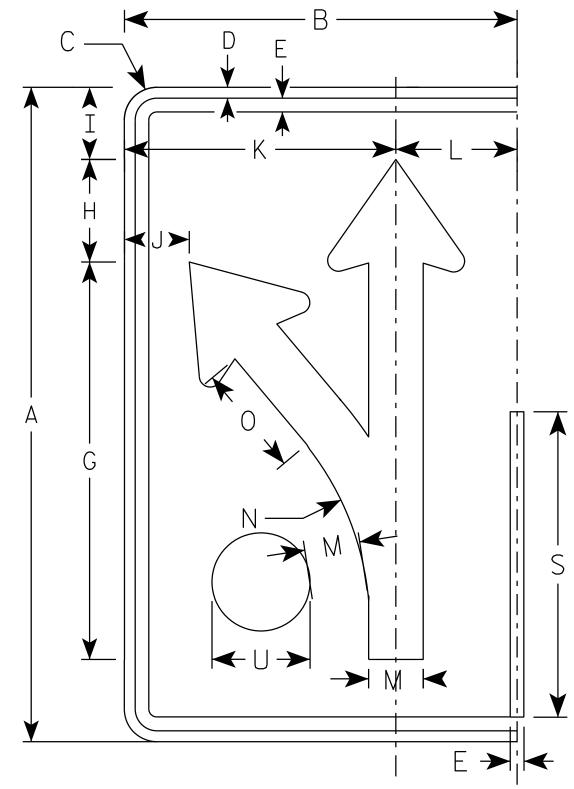
DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO: HWY: COUNTY: SHEET NO: 144 E

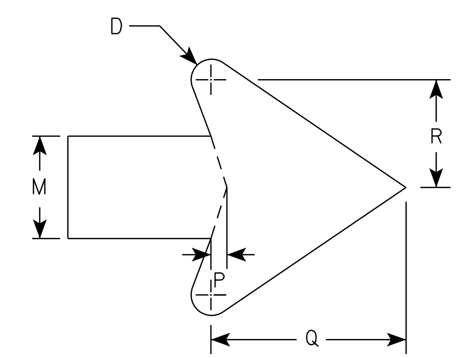
7 7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 1/2	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

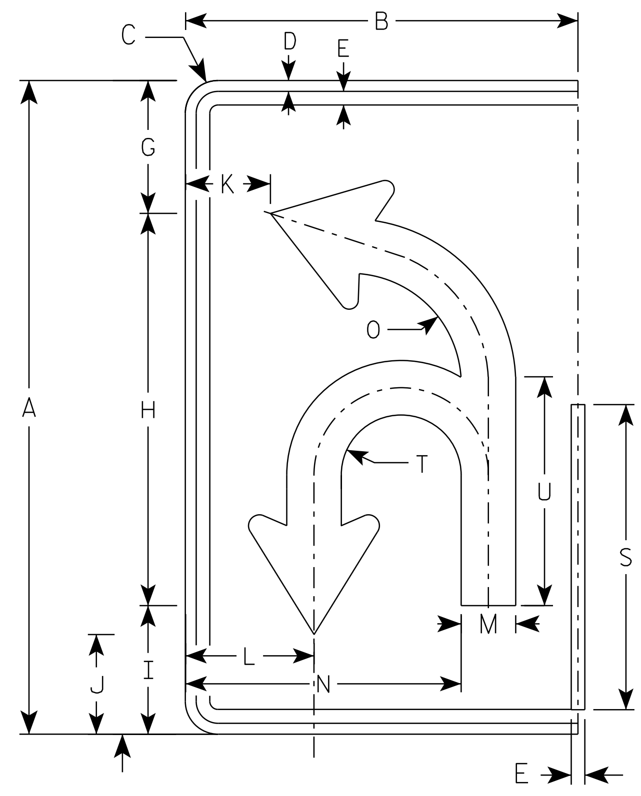
DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 145 | E

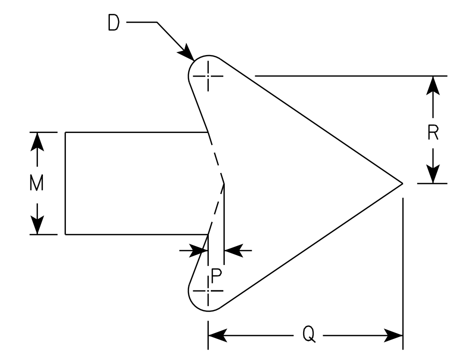
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:16 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 1/2	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 1/2	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

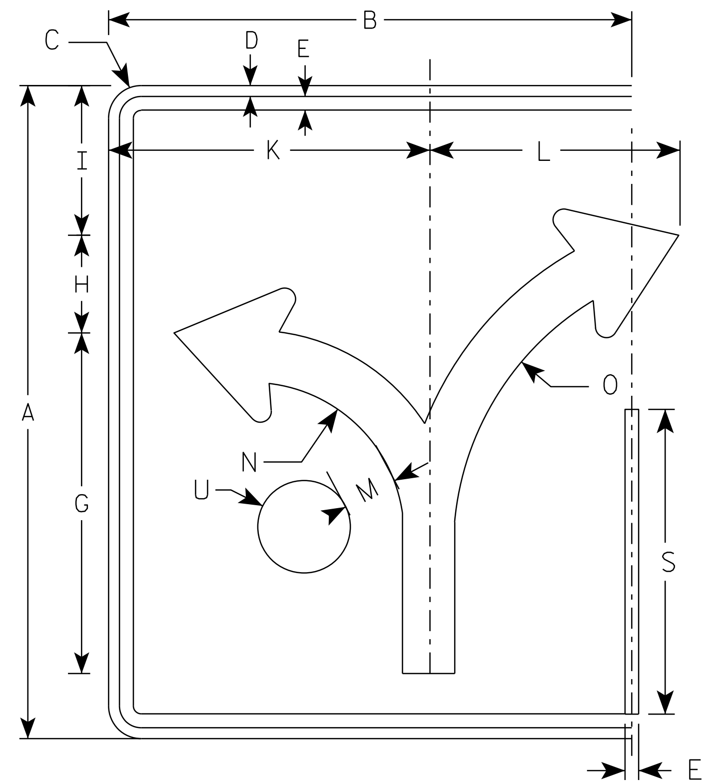
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 146 | E

7

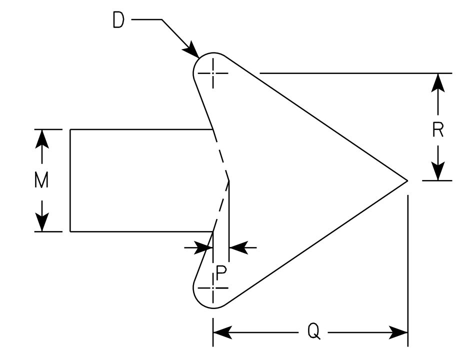
7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(J)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 1/2	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 1/2	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (J) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

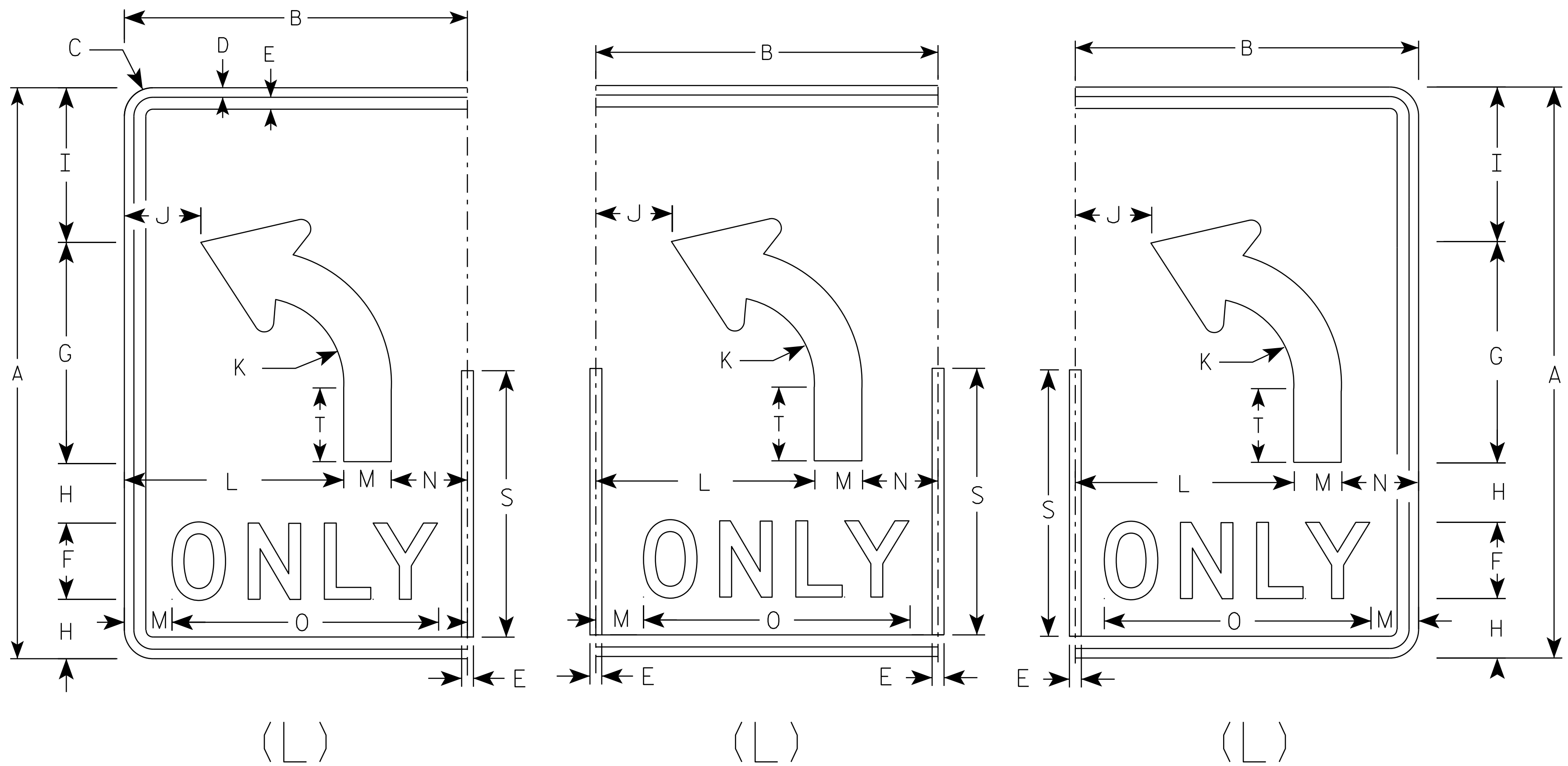
PROJECT NO: HWY: COUNTY: SHEET NO: 147 E

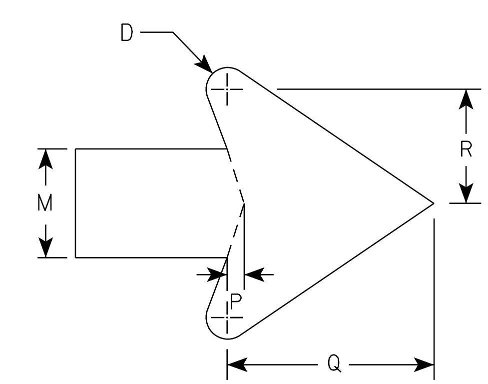
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:18 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

7

7

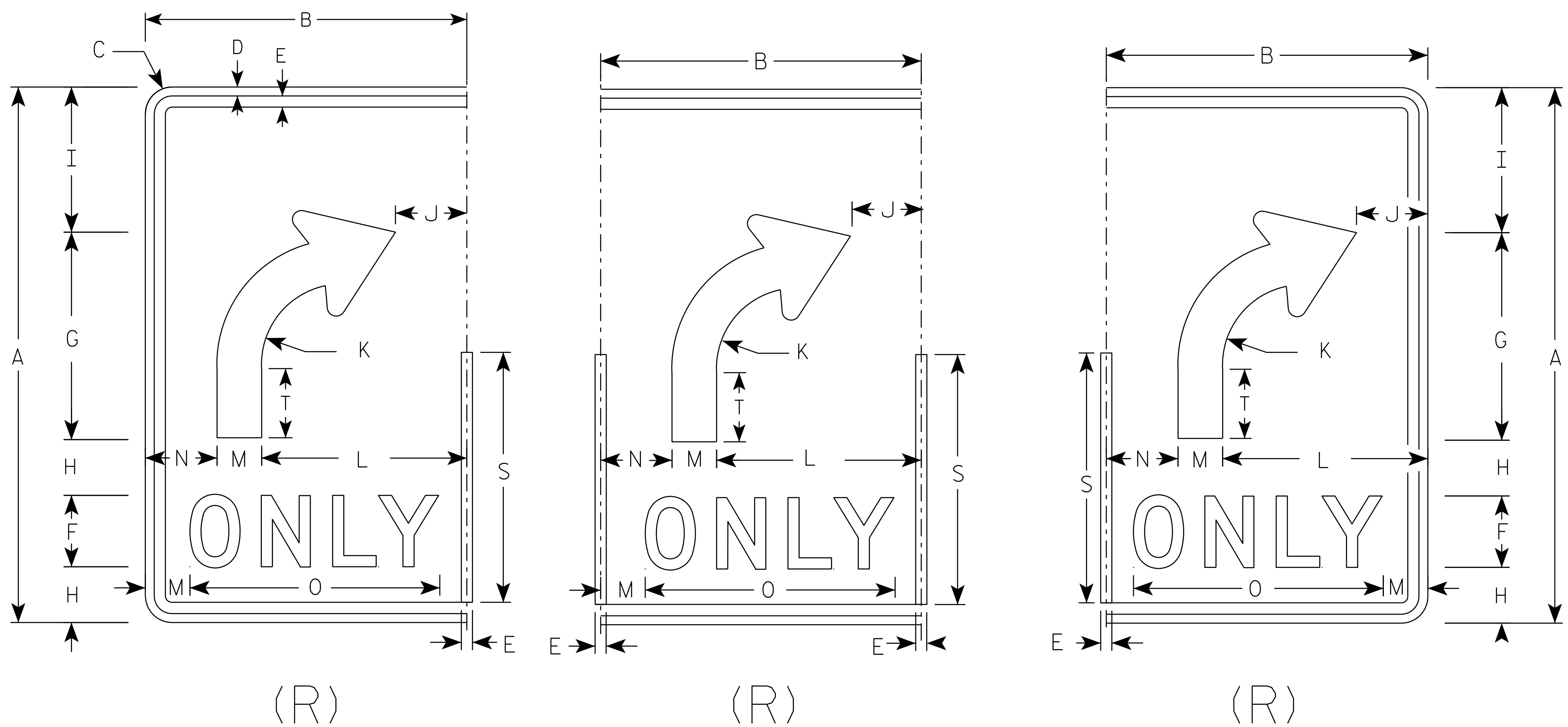
PROJECT NO:

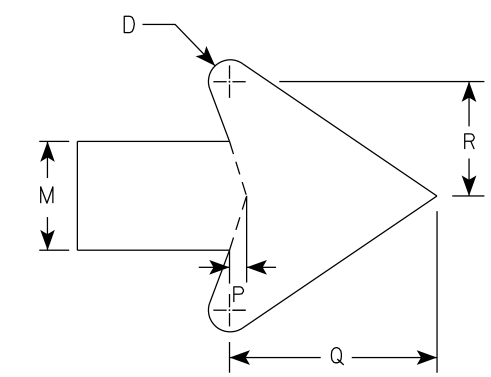
SHEET NO: 148 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 14-FEB 2023 3:02 PLOT BY : mscj9h PLOT NAME :

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 1/2	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 1/2	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

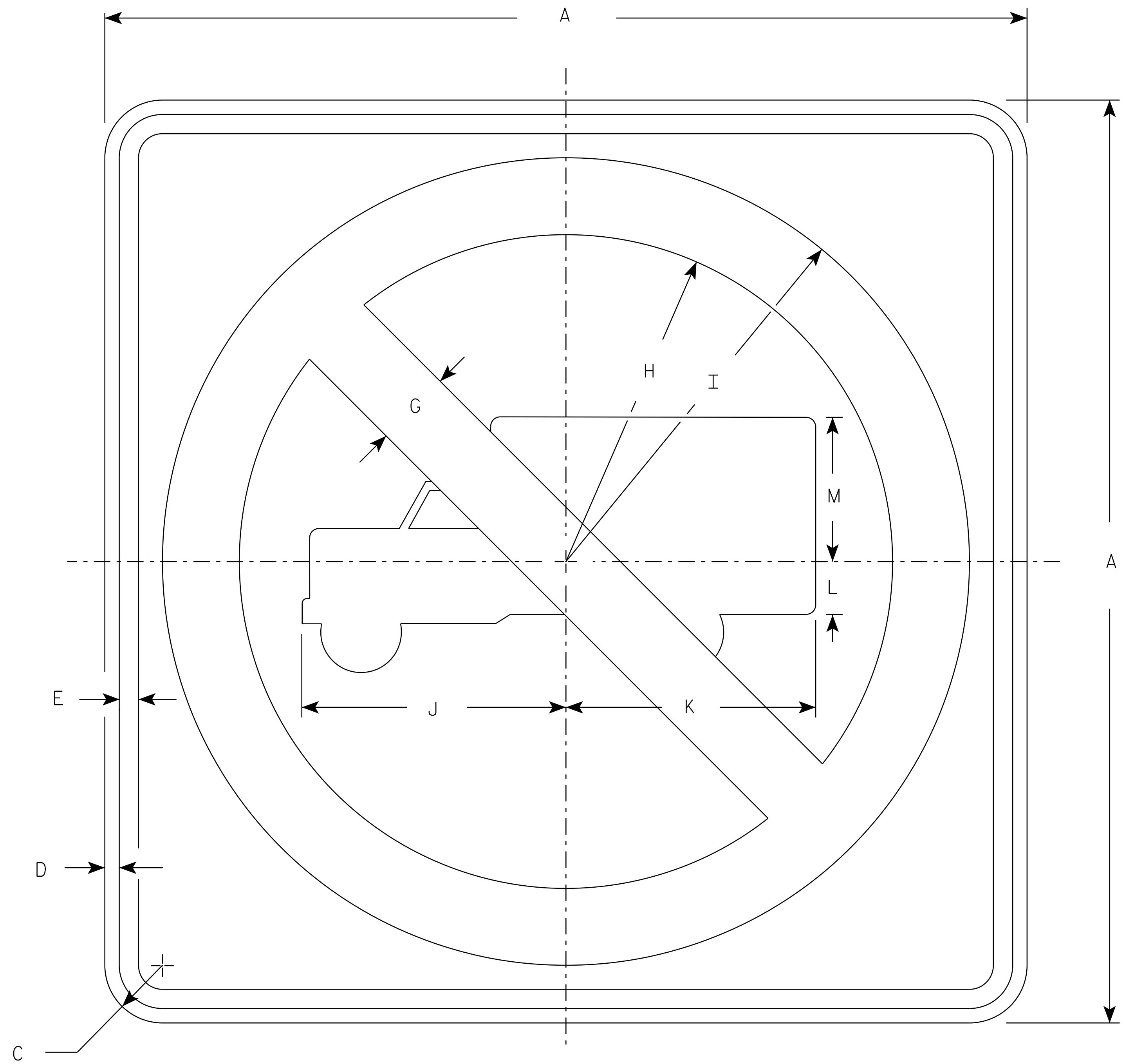
STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/14/23 PLATE NO. R3-8.2

PROJECT NO: SHEET NO: 149 E



R5-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See Note 3
3. Circle & Diagonal - Red
   Truck Symbol & Border - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/2	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/2	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 7/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		2 1/4	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

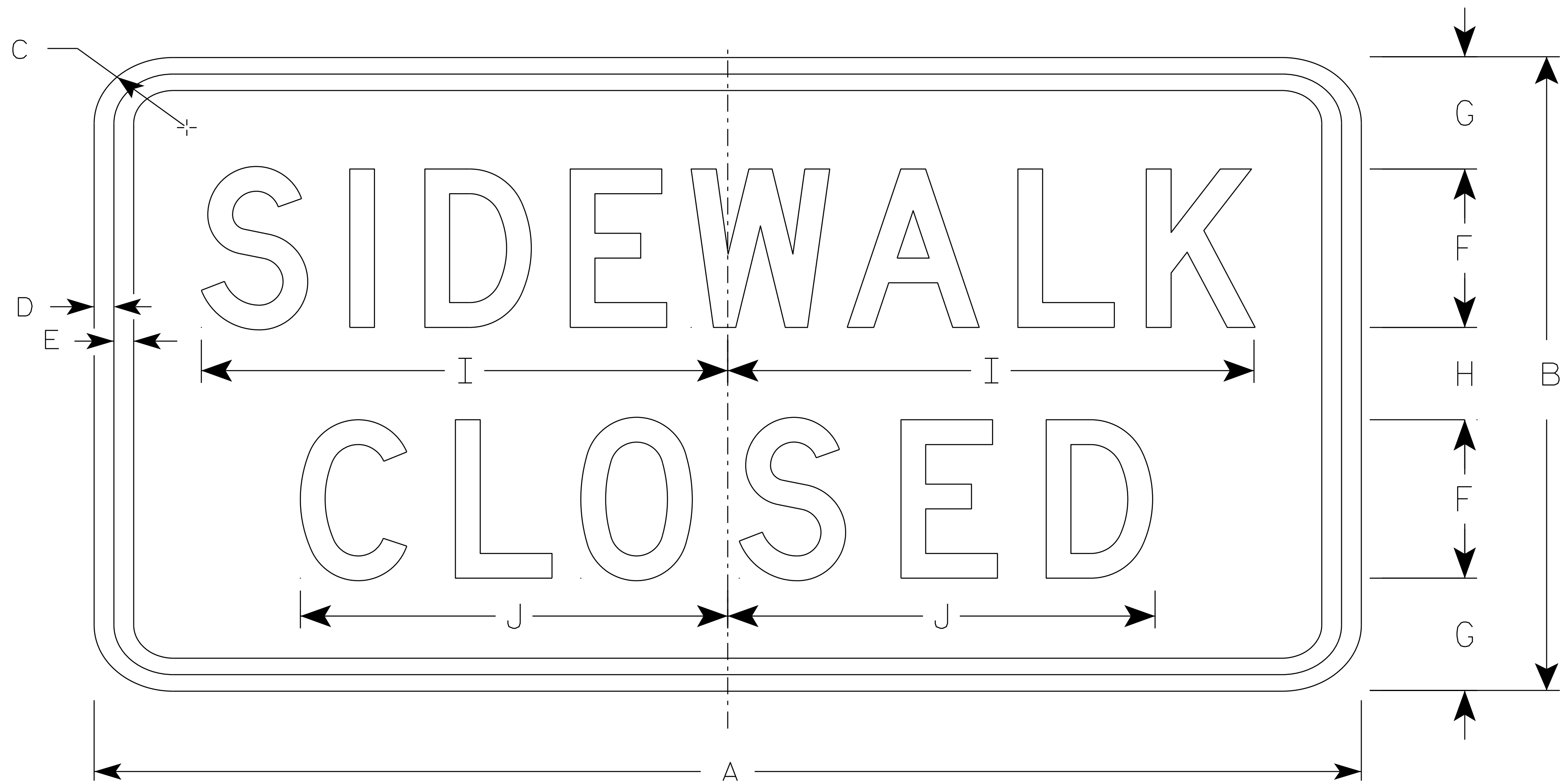
DATE 8/17/23 PLATE NO. R5-2.7

PROJECT NO: HWY: COUNTY: SHEET NO: 150 E

7

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R52.dgn PLOT DATE : 17-AUG 2023 3:01 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



R9-9

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 1/2	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 1/2	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

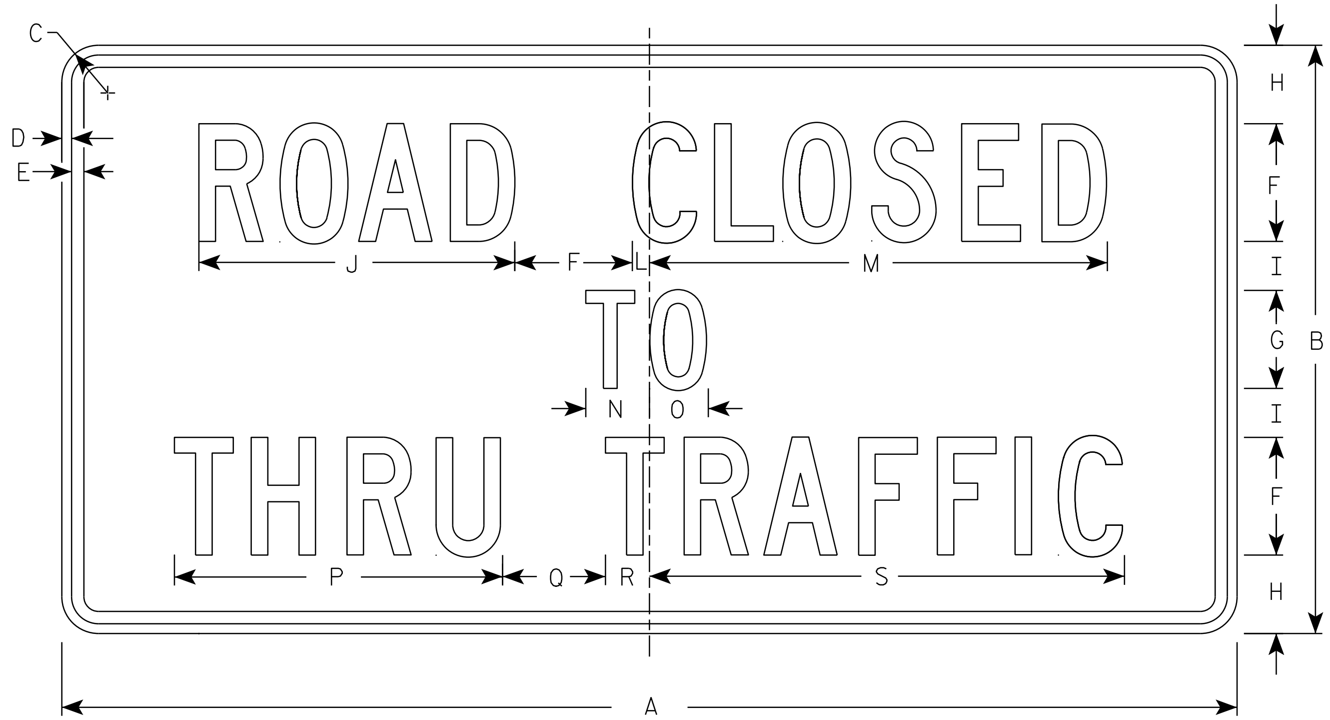
STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9.7

PROJECT NO: HWY: COUNTY: SHEET NO: 151 E



R11-4

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

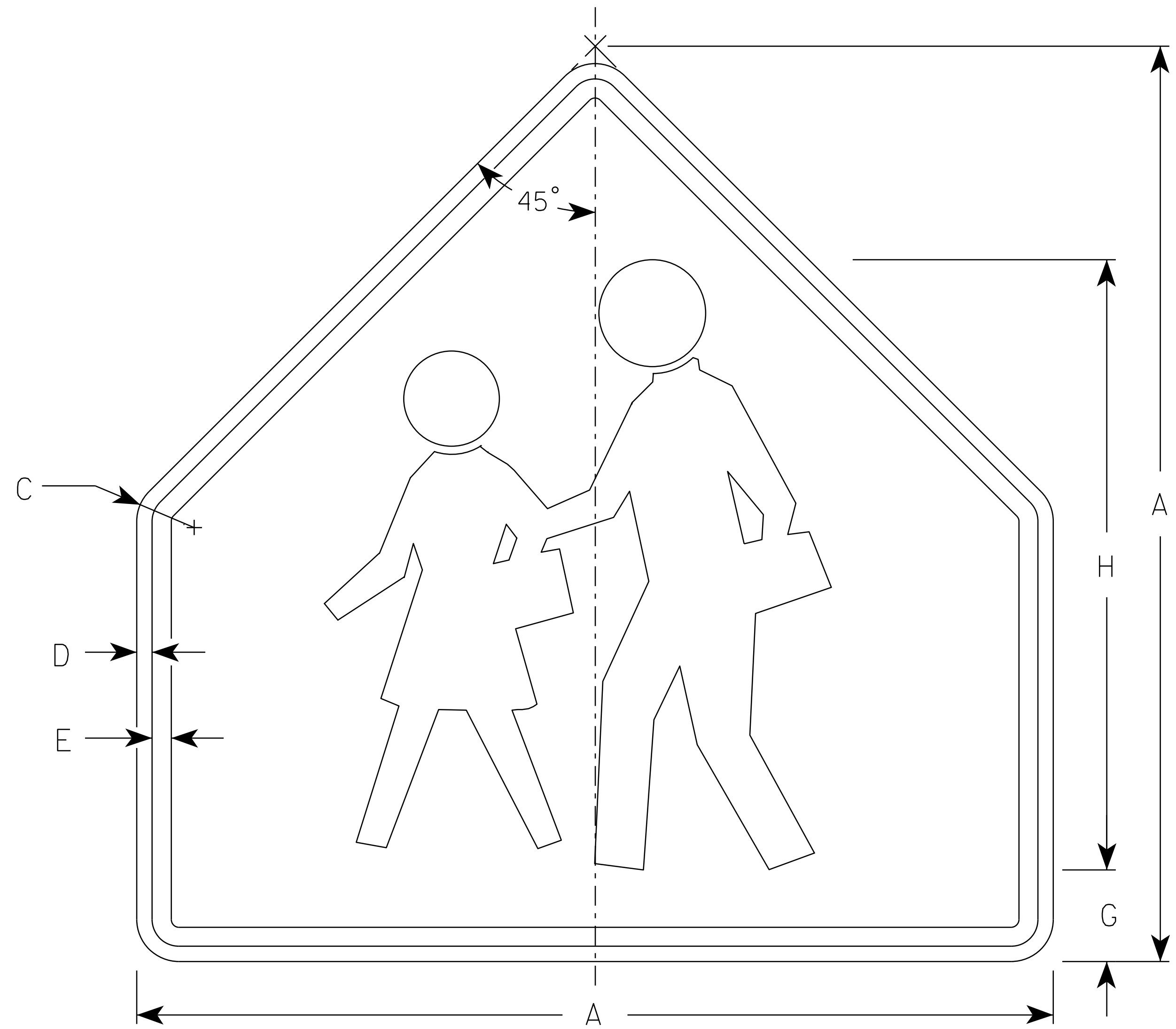
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 152 | E



S1-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow-Green
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2S	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
2M	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		1 7/8	3/4	1		4 3/4	32																			12
5																											

STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

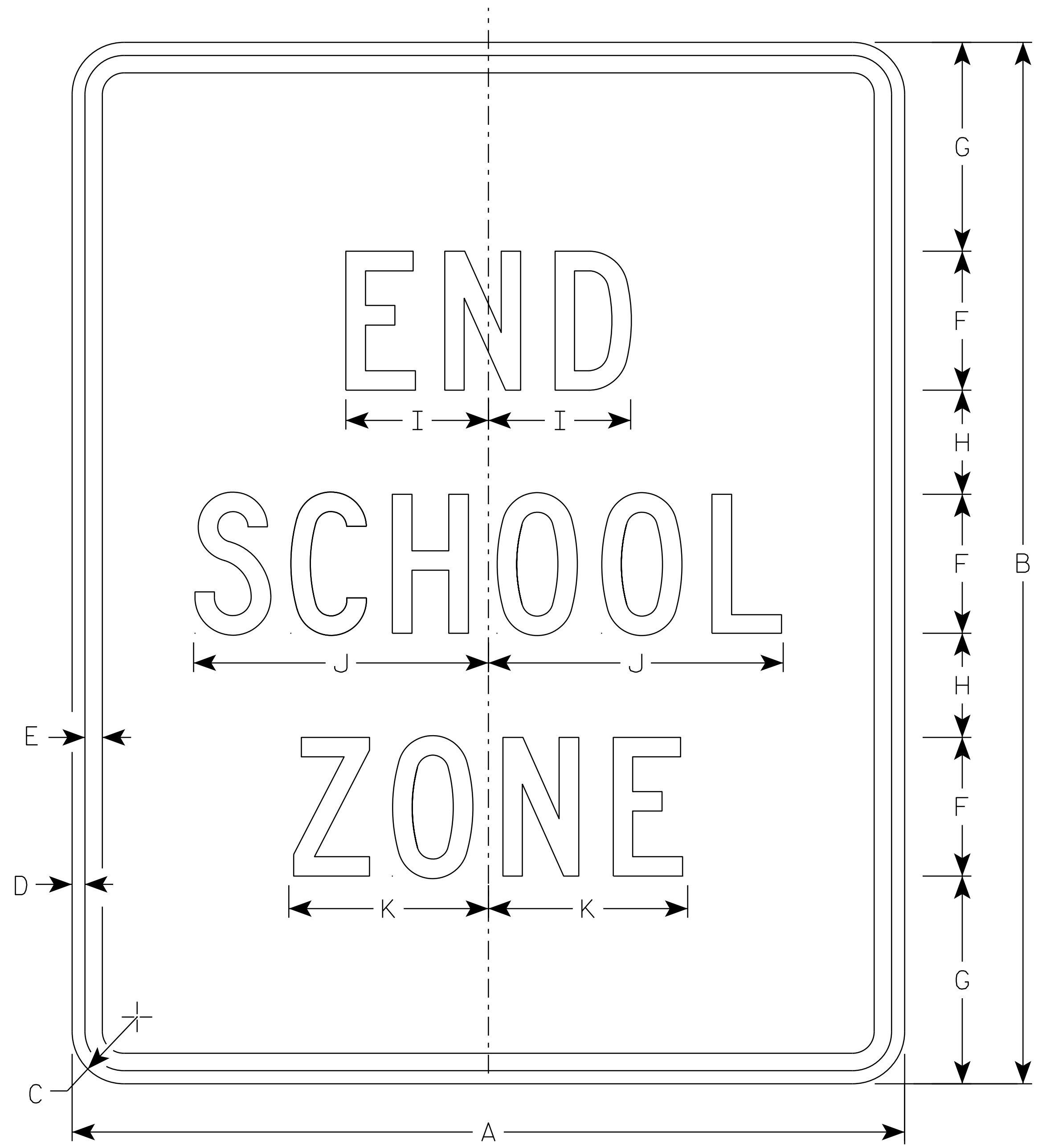
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/16/2023 PLATE NO. S1-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 153 | E

7

7



S5-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/2	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
2M	24	30	1 1/2	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 7/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/2023 PLATE NO. S5-2.3

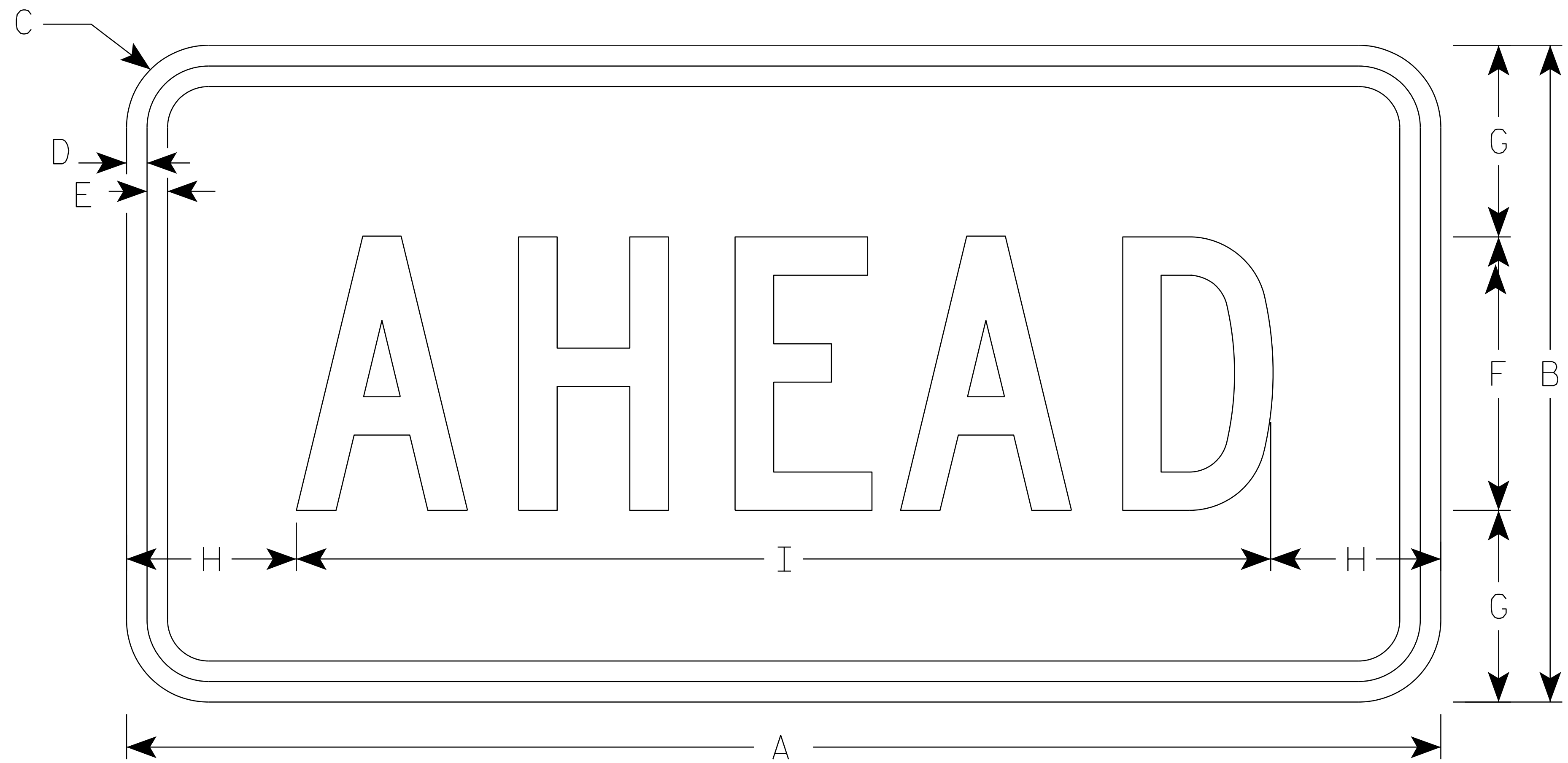
PROJECT NO: HWY: COUNTY: SHEET NO: 154 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\S52.dgn PLOT DATE : 23-FEB 2023 8:10 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7 7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow-Green
   Message - Black
3. Message Series - C



S16-9P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/2	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/2	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/2	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 7/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/2023 PLATE NO. S16-9P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 155 | E

7

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S169P.dgn PLOT DATE : 23-FEB 2023 10:32 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B

W4-4P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/2	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/2	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/2	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

STANDARD SIGN
W4-4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

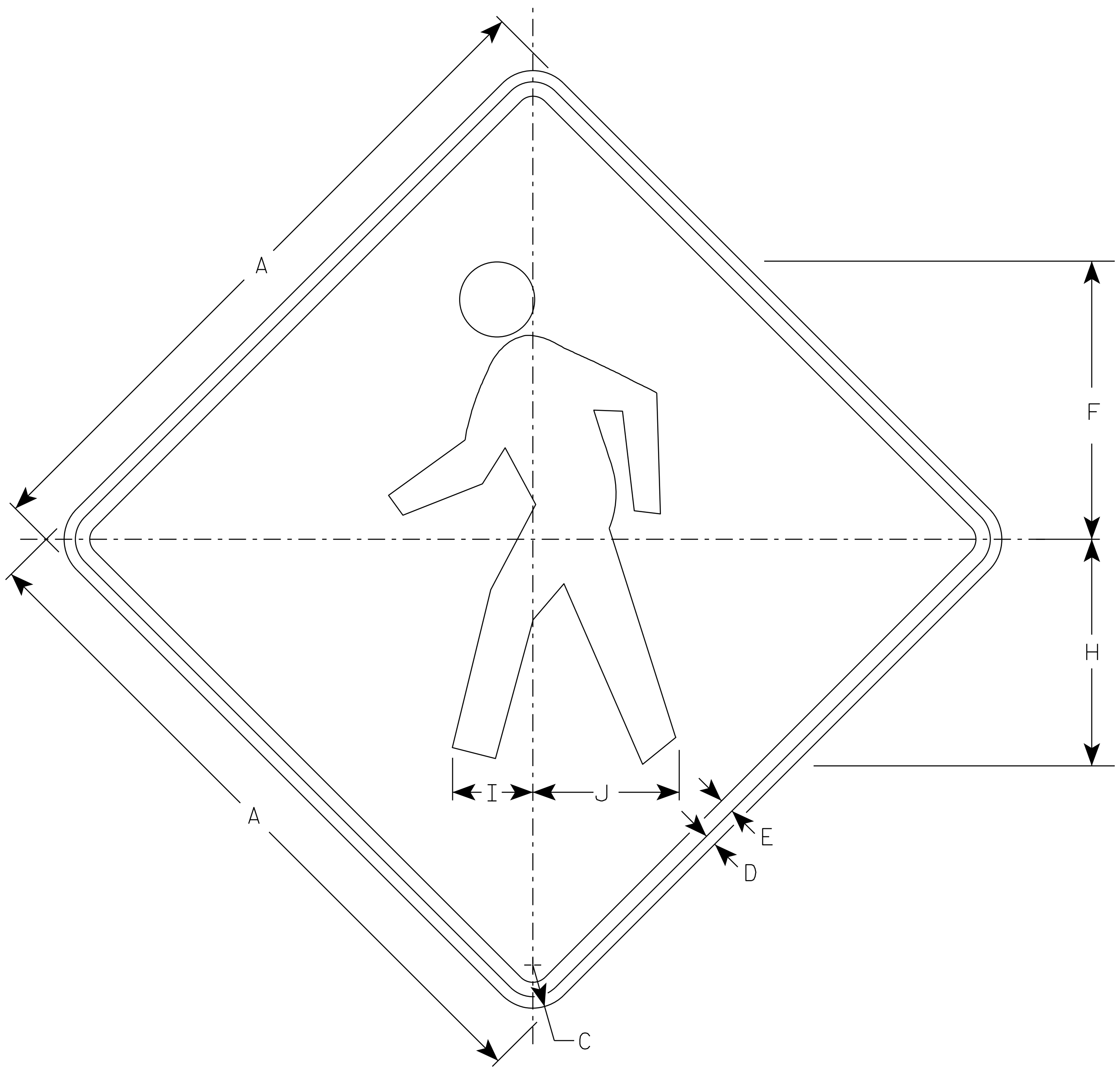
DATE 9/5/2023 PLATE NO. W4-4P.3

PROJECT NO: HWY: COUNTY: SHEET NO: 156 E

7

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W44P.dgn PLOT DATE : 5-SEPT 2023 10:17 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 7/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/15/2023 PLATE NO. W11-2.9

PROJECT NO: HWY: COUNTY: SHEET NO: 157 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W112.DGN PLOT DATE : 15-JUNE 2023 3:50 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

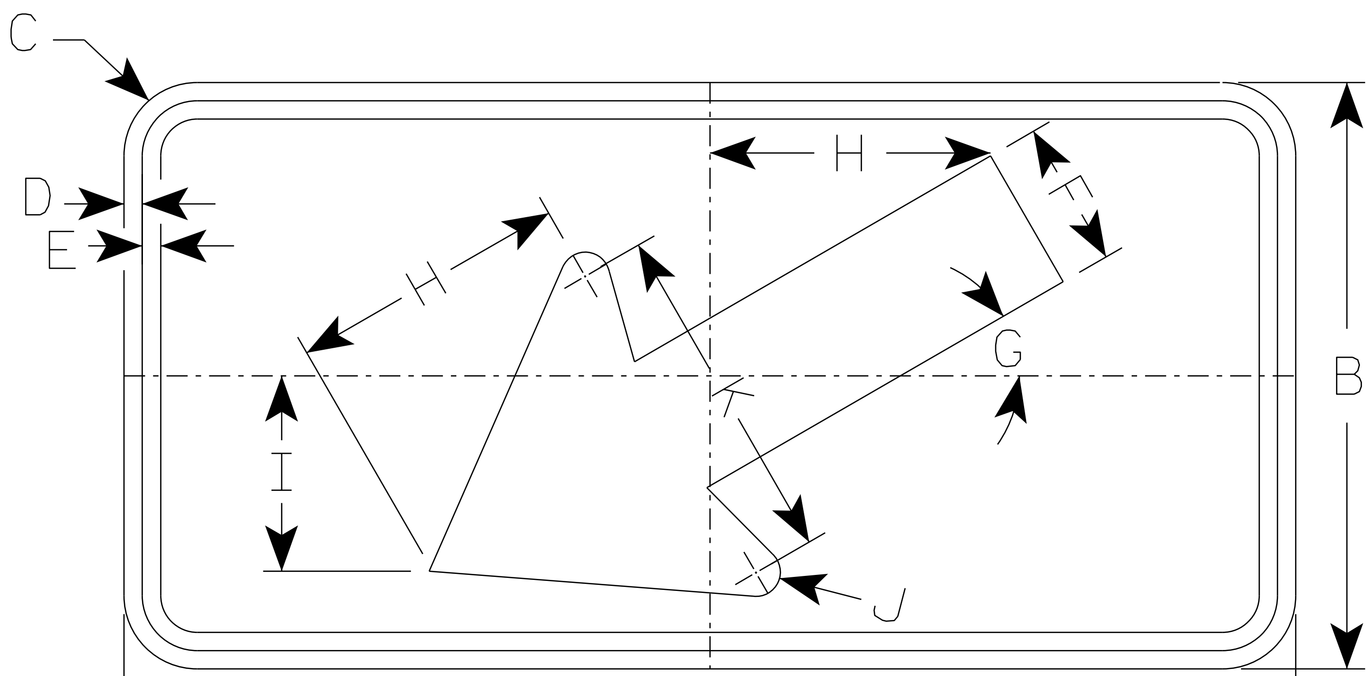
WISDOT/CADDS SHEET 42

7

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.



W16-7L

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
	1																											
	2S	24	12	1 1/2	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
*	2M	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
*	3	30	18	1 1/2	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
*	4	48	24	1 7/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
	5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/9/2024 PLATE NO. W16-7.9

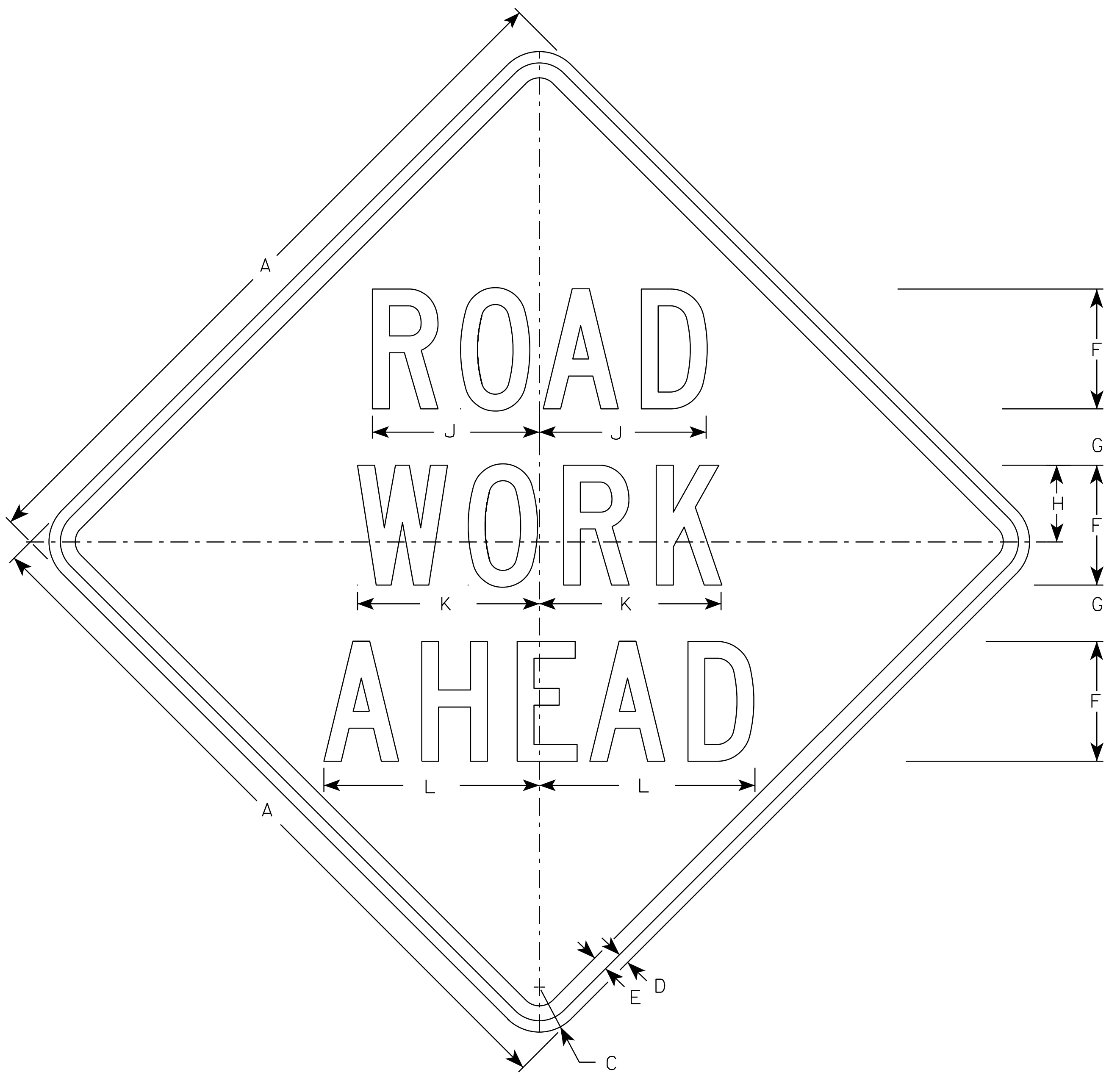
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 158 | E

7

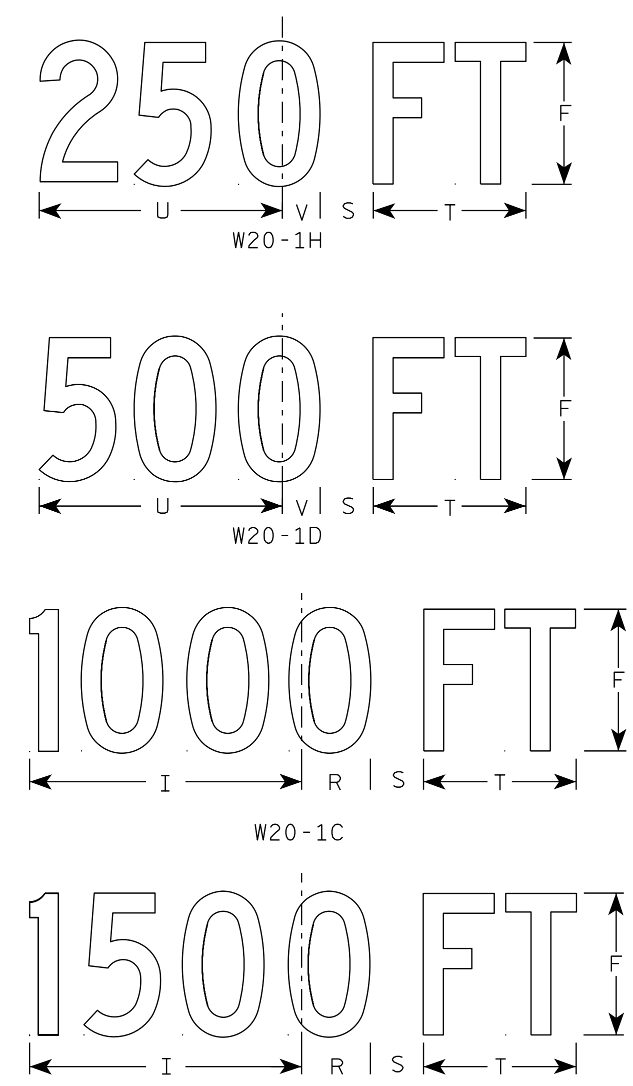
7

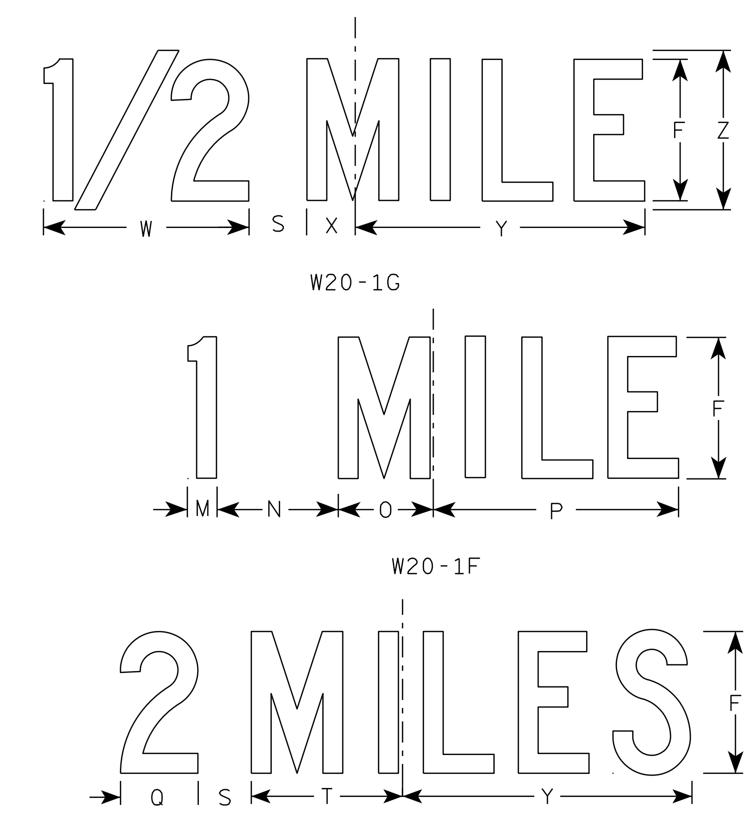
NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A





SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

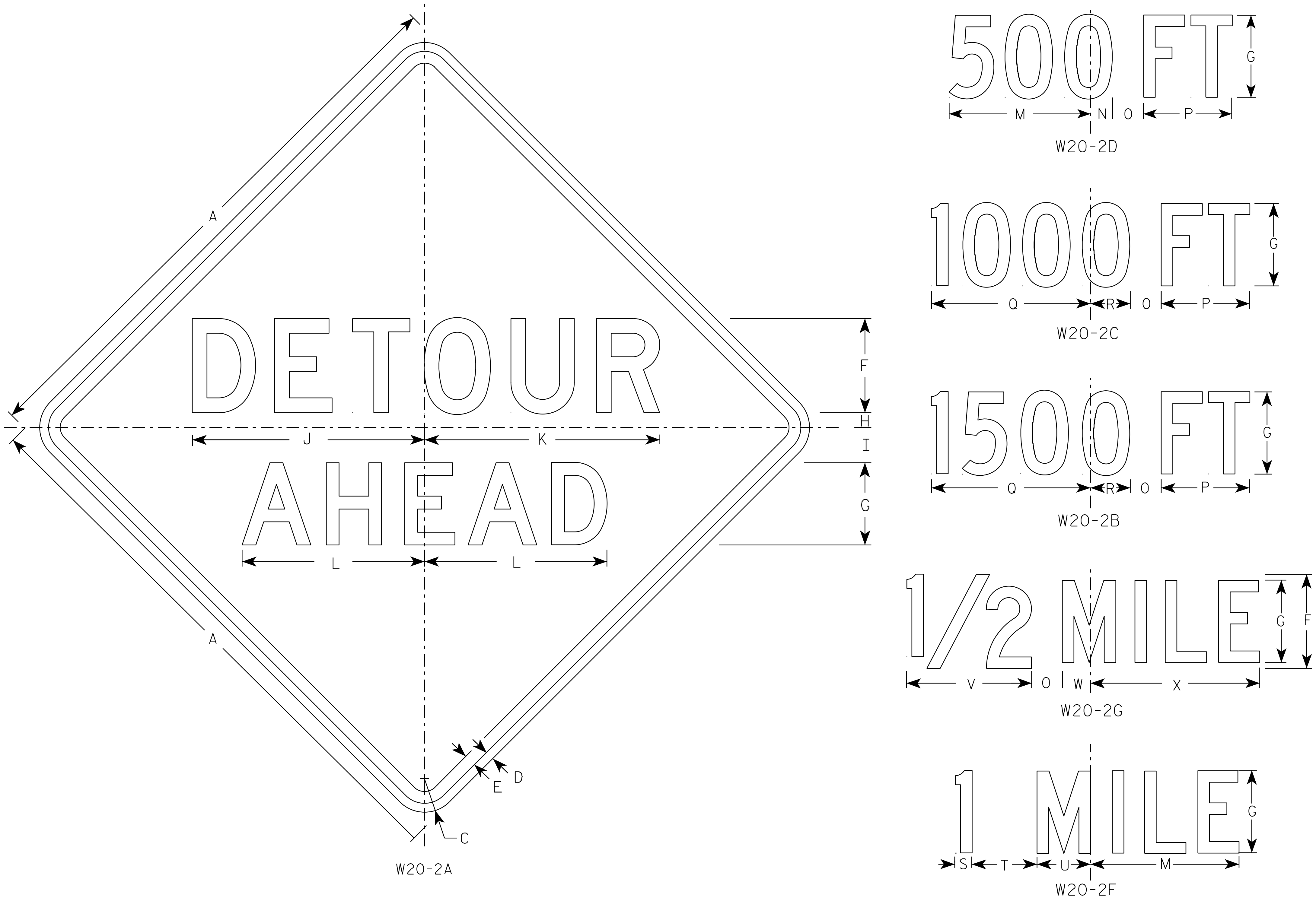
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

SHEET NO: 159 E



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		3	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-2.7

7

7

PROJECT NO: HWY: COUNTY: SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

11TH STREET

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) MARSH EXC	INCREMENTAL VOL (CY) (UNADJUSTED) CUT	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL	INCREMENTAL VOL (CY) (UNADJUSTED) FILL	INCREMENTAL VOL (CY) (UNADJUSTED) MARSH EXC	CUMULATIVE VOL (CY) CUT	CUMULATIVE VOL (CY) EXPANDED FILL	CUMULATIVE VOL (CY) EXPANDED MARSH BACKFILL	CUMULATIVE VOL (CY) REDUCED MARSH IN FILL	CUMULATIVE VOL (CY) MASS ORDINATE
											1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
3+20.00	320.00	0.00	40.43	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
3+50.00	350.00	30.00	38.70	0.00	0.00	0.00	44	0	0	0	44	0	0	0	44
4+00.00	400.00	50.00	56.78	0.00	0.00	0.00	88	0	0	0	132	0	0	0	132
4+50.00	450.00	50.00	40.14	0.00	0.00	0.00	90	0	0	0	222	0	0	0	222
5+00.00	500.00	50.00	35.18	0.00	0.98	0.00	70	0	1	0	292	1	0	0	291
5+41.83	541.83	41.83	33.53	0.00	0.69	0.00	53	0	1	0	345	3	0	0	343
5+50.00	550.00	8.17	38.59	0.00	0.59	0.00	11	0	0	0	356	3	0	0	354
5+60.00	560.00	10.00	57.21	0.00	0.00	0.00	18	0	0	0	374	3	0	0	372
6+00.00	600.00	40.00	30.82	0.00	0.42	0.00	65	0	0	0	439	3	0	0	437
6+08.48	608.48	8.48	29.46	0.00	0.88	0.00	9	0	0	0	448	3	0	0	446
6+50.00	650.00	41.52	32.51	0.00	0.26	0.00	48	0	1	0	496	4	0	0	492
7+00.00	700.00	50.00	34.45	0.00	0.32	0.00	62	0	1	0	558	5	0	0	553
7+35.00	735.00	35.00	46.53	0.00	0.00	0.00	52	0	0	0	610	5	0	0	605
7+50.00	750.00	15.00	44.47	0.00	0.00	0.00	25	0	0	0	635	5	0	0	630
8+00.00	800.00	50.00	37.89	0.00	0.00	0.00	76	0	0	0	711	5	0	0	706
8+50.00	850.00	50.00	29.24	0.00	0.59	0.00	62	0	1	0	773	6	0	0	767
9+00.00	900.00	50.00	35.95	0.00	0.00	0.00	60	0	1	0	833	8	0	0	826
9+38.00	938.00	38.00	31.19	0.00	0.00	0.00	47	0	0	0	880	8	0	0	873
9+50.00	950.00	12.00	27.57	0.00	0.44	0.00	13	0	0	0	893	8	0	0	886
9+90.00	990.00	40.00	41.00	0.00	0.00	0.00	51	0	0	0	944	8	0	0	937
10+00.00	1000.00	10.00	35.17	0.00	0.00	0.00	14	0	0	0	958	8	0	0	951
10+50.00	1050.00	50.00	43.39	0.00	0.48	0.00	73	0	0	0	1,031	8	0	0	1,024
11+00.00	1100.00	50.00	63.06	0.00	0.22	0.00	99	0	1	0	1,130	9	0	0	1,121
11+07.40	1107.40	7.40	47.69	0.00	0.87	0.00	15	0	0	0	1,145	9	0	0	1,136
11+50.00	1150.00	42.60	94.78	0.00	0.00	0.00	112	0	1	0	1,257	10	0	0	1,247
11+73.33	1173.33	23.33	48.25	0.00	0.27	0.00	62	0	0	0	1,319	10	0	0	1,309
12+00.00	1200.00	26.67	48.15	0.00	0.78	0.00	48	0	1	0	1,367	11	0	0	1,356
12+50.00	1250.00	50.00	48.96	0.00	0.89	0.00	90	0	2	0	1,457	14	0	0	1,443
13+00.00	1300.00	50.00	54.28	0.00	0.00	0.00	96	0	1	0	1,553	15	0	0	1,538
13+25.00	1325.00	25.00	49.41	0.00	0.00	0.00	48	0	0	0	1,601	15	0	0	1,586
13+50.00	1350.00	25.00	38.35	0.00	1.61	0.00	41	0	1	0	1,642	16	0	0	1,626
14+00.00	1400.00	50.00	47.48	0.00	0.00	0.00	79	0	1	0	1,721	18	0	0	1,704
14+50.00	1450.00	50.00	50.25	0.00	0.25	0.00	90	0	0	0	1,811	18	0	0	1,794
14+53.21	1453.21	3.21	48.96	0.00	7.10	0.00	6	0	0	0	1,817	18	0	0	1,800
14+54.91	1454.91	1.70	47.36	0.00	3.29	0.00	3	0	0	0	1,820	18	0	0	1,803

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

11TH STREET

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	REDUCED MARSH IN FILL	MASS ORDINATE
											1.00	1.25	1.00	1.00	
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
15+00.00	1500.00	45.09	97.98	0.00	0.00	0.00	121	0	3	0	1,941	21	0	0	1,920
15+17.28	1517.28	17.28	48.01	0.00	2.26	0.00	47	0	1	0	1,988	23	0	0	1,966
15+19.03	1519.03	1.75	49.60	0.00	0.47	0.00	3	0	0	0	1,991	23	0	0	1,969
15+41.00	1541.00	21.97	47.17	0.00	1.80	0.00	39	0	1	0	2,030	24	0	0	2,006
15+50.00	1550.00	9.00	47.69	0.00	1.77	0.00	16	0	1	0	2,046	25	0	0	2,021
16+00.00	1600.00	50.00	48.04	0.00	1.17	0.00	89	0	3	0	2,135	29	0	0	2,106
16+03.47	1603.47	3.47	47.90	0.00	1.15	0.00	6	0	0	0	2,141	29	0	0	2,112
16+06.00	1606.00	2.53	47.53	0.00	1.27	0.00	4	0	0	0	2,145	29	0	0	2,116
16+50.00	1650.00	44.00	70.63	0.00	0.00	0.00	96	0	1	0	2,241	30	0	0	2,211
17+00.00	1700.00	50.00	47.95	0.00	0.87	0.00	110	0	1	0	2,351	31	0	0	2,320
17+05.00	1705.00	5.00	52.93	0.00	0.00	0.00	9	0	0	0	2,360	31	0	0	2,329
17+18.00	1718.00	13.00	50.06	0.00	0.89	0.00	25	0	0	0	2,385	31	0	0	2,354
17+50.00	1750.00	32.00	49.14	0.00	0.92	0.00	59	0	1	0	2,444	33	0	0	2,412
18+00.00	1800.00	50.00	48.70	0.00	0.98	0.00	91	0	2	0	2,535	35	0	0	2,500
18+11.00	1811.00	11.00	49.42	0.00	0.81	0.00	20	0	0	0	2,555	35	0	0	2,520
18+26.66	1826.66	15.66	50.02	0.00	0.77	0.00	29	0	0	0	2,584	35	0	0	2,549
18+50.00	1850.00	23.34	85.28	0.00	0.00	0.00	58	0	0	0	2,642	35	0	0	2,607
18+75.00	1875.00	25.00	80.98	0.00	0.00	0.00	77	0	0	0	2,719	35	0	0	2,684
18+98.03	1898.03	23.03	51.49	0.00	0.23	0.00	56	0	0	0	2,775	35	0	0	2,740
19+00.00	1900.00	1.97	53.54	0.00	0.32	0.00	4	0	0	0	2,779	35	0	0	2,744
19+40.00	1940.00	40.00	52.49	0.00	0.50	0.00	79	0	1	0	2,858	36	0	0	2,822
19+50.00	1950.00	10.00	53.47	0.00	0.44	0.00	20	0	0	0	2,878	36	0	0	2,842
19+75.00	1975.00	25.00	63.10	0.00	0.00	0.00	54	0	0	0	2,932	36	0	0	2,896
20+00.00	2000.00	25.00	51.25	0.00	0.66	0.00	53	0	0	0	2,985	36	0	0	2,949
20+50.00	2050.00	50.00	56.36	0.00	0.02	0.00	100	0	1	0	3,085	38	0	0	3,048
20+63.16	2063.16	13.16	48.51	0.00	1.06	0.00	26	0	0	0	3,111	38	0	0	3,074
21+00.00	2100.00	36.84	79.27	0.00	0.76	0.00	87	0	1	0	3,198	39	0	0	3,159
21+13.71	2113.71	13.71	56.07	0.00	0.05	0.00	34	0	0	0	3,232	39	0	0	3,193
21+35.00	2135.00	21.29	50.38	0.00	0.33	0.00	42	0	0	0	3,274	39	0	0	3,235
21+47.00	2147.00	12.00	47.12	0.00	1.16	0.00	22	0	0	0	3,296	39	0	0	3,257
21+50.00	2150.00	3.00	47.56	0.00	1.03	0.00	5	0	0	0	3,301	39	0	0	3,262
21+63.00	2163.00	13.00	55.60	0.00	0.00	0.00	25	0	0	0	3,326	39	0	0	3,287
22+00.00	2200.00	37.00	47.80	0.00	1.57	0.00	71	0	1	0	3,397	40	0	0	3,357
22+35.00	2235.00	35.00	46.39	0.00	1.21	0.00	61	0	2	0	3,458	43	0	0	3,416
22+50.00	2250.00	15.00	47.64	0.00	0.95	0.00	26	0	1	0	3,484	44	0	0	3,440

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

11TH STREET

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	CUT 1.00	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.00	REDUCED MARSH IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 4	NOTE 6	NOTE 8
22+65.00	2265.00	15.00	57.10	0.00	0.00	0.00	29	0	0	0	3,513	44	0	0	3,469
22+95.00	2295.00	30.00	47.97	0.00	0.98	0.00	58	0	1	0	3,571	45	0	0	3,526
23+00.00	2300.00	5.00	49.62	0.00	0.75	0.00	9	0	0	0	3,580	45	0	0	3,535
23+31.00	2331.00	31.00	59.22	0.00	0.00	0.00	62	0	0	0	3,642	45	0	0	3,597
23+50.00	2350.00	19.00	52.54	0.00	0.46	0.00	39	0	0	0	3,681	45	0	0	3,636
23+81.00	2381.00	31.00	46.54	0.00	0.32	0.00	57	0	0	0	3,738	45	0	0	3,693
24+00.00	2400.00	19.00	43.75	0.00	0.86	0.00	32	0	0	0	3,770	45	0	0	3,725
24+50.00	2450.00	50.00	44.84	0.00	0.77	0.00	82	0	2	0	3,852	48	0	0	3,805
24+68.00	2468.00	18.00	41.35	0.00	0.81	0.00	29	0	1	0	3,881	49	0	0	3,832
25+00.00	2500.00	32.00	52.52	0.00	0.00	0.00	56	0	0	0	3,937	49	0	0	3,888
25+22.00	2522.00	22.00	41.91	0.00	0.43	0.00	38	0	0	0	3,975	49	0	0	3,926
25+50.00	2550.00	28.00	46.81	0.00	0.67	0.00	46	0	1	0	4,021	50	0	0	3,971
25+75.00	2575.00	25.00	52.65	0.00	0.00	0.00	46	0	0	0	4,067	50	0	0	4,017
26+00.00	2600.00	25.00	53.37	0.00	0.14	0.00	49	0	0	0	4,116	50	0	0	4,066
26+32.00	2632.00	32.00	54.14	0.00	0.05	0.00	64	0	0	0	4,180	50	0	0	4,130
26+41.00	2641.00	9.00	56.07	0.00	0.00	0.00	18	0	0	0	4,198	50	0	0	4,148
26+50.00	2650.00	9.00	55.18	0.00	0.00	0.00	19	0	0	0	4,217	50	0	0	4,167
26+61.00	2661.00	11.00	57.40	0.00	0.00	0.00	23	0	0	0	4,240	50	0	0	4,190
27+00.00	2700.00	39.00	53.07	0.00	0.12	0.00	80	0	0	0	4,320	50	0	0	4,270
27+50.00	2750.00	50.00	51.41	0.00	0.10	0.00	97	0	0	0	4,417	50	0	0	4,367
27+57.18	2757.18	7.18	51.77	0.00	0.06	0.00	14	0	0	0	4,431	50	0	0	4,381
27+58.22	2758.22	1.04	46.43	0.00	0.05	0.00	2	0	0	0	4,433	50	0	0	4,383
28+00.00	2800.00	41.78	80.07	0.00	0.00	0.00	98	0	0	0	4,531	50	0	0	4,481
28+43.55	2843.55	43.55	27.74	0.00	0.00	0.00	87	0	0	0	4,618	50	0	0	4,568
28+44.07	2844.07	0.52	37.83	0.00	0.00	0.00	1	0	0	0	4,619	50	0	0	4,569
28+50.00	2850.00	5.93	39.64	0.00	0.00	0.00	9	0	0	0	4,628	50	0	0	4,578
28+95.00	2895.00	45.00	32.41	0.00	0.44	0.00	60	0	0	0	4,688	50	0	0	4,638
29+00.00	2900.00	5.00	29.55	0.00	0.48	0.00	6	0	0	0	4,694	50	0	0	4,644
29+50.00	2950.00	50.00	29.92	0.00	0.70	0.00	55	0	1	0	4,749	51	0	0	4,698
29+60.00	2960.00	10.00	31.67	0.00	0.82	0.00	11	0	0	0	4,760	51	0	0	4,709
30+00.00	3000.00	40.00	24.10	0.00	0.86	0.00	41	0	1	0	4,801	53	0	0	4,749
30+50.00	3050.00	50.00	22.74	0.00	2.44	0.00	43	0	3	0	4,844	56	0	0	4,788
31+00.00	3100.00	50.00	25.93	0.00	0.22	0.00	45	0	2	0	4,889	59	0	0	4,830
31+40.00	3140.00	40.00	33.16	0.00	0.00	0.00	44	0	0	0	4,933	59	0	0	4,874
31+50.00	3150.00	10.00	29.01	0.00	0.10	0.00	12	0	0	0	4,945	59	0	0	4,886

NOTES:	
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3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

11TH STREET

STATION	REAL STATION	DISTANCE	AREA (SF) CUT	AREA (SF) SALVAGED/UNUSABLE PAVEMENT MATERIAL	AREA (SF) FILL	AREA (SF) MARSH EXC	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	INCREMENTAL VOL (CY) (UNADJUSTED) SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	INCREMENTAL VOL (CY) (UNADJUSTED) FILL NOTE 3	INCREMENTAL VOL (CY) (UNADJUSTED) MARSH EXC	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	CUMULATIVE VOL (CY) EXPANDED FILL 1.25	CUMULATIVE VOL (CY) EXPANDED MARSH BACKFILL 1.00 NOTE 4	CUMULATIVE VOL (CY) REDUCED MARSH IN FILL 1.00 NOTE 6	CUMULATIVE VOL (CY) MASS ORDINATE NOTE 8
32+00.00	3200.00	50.00	32.21	0.00	0.41	0.00	57	0	0	0	5,002	59	0	0	4,943
32+07.00	3207.00	7.00	29.39	0.00	0.39	0.00	8	0	0	0	5,010	59	0	0	4,951
32+38.15	3238.15	31.15	27.82	0.00	0.12	0.00	33	0	0	0	5,043	59	0	0	4,984
32+50.00	3250.00	11.85	30.67	0.00	1.59	0.00	13	0	0	0	5,056	59	0	0	4,997
33+00.00	3300.00	50.00	29.65	0.00	5.75	0.00	56	0	7	0	5,112	68	0	0	5,045
33+04.36	3304.36	4.36	30.41	0.00	0.20	0.00	5	0	0	0	5,117	68	0	0	5,050
33+25.00	3325.00	20.64	31.42	0.00	0.63	0.00	24	0	0	0	5,141	68	0	0	5,074
33+50.00	3350.00	25.00	30.10	0.00	0.68	0.00	28	0	1	0	5,169	69	0	0	5,100
33+91.00	3391.00	41.00	26.78	0.00	1.58	0.00	43	0	2	0	5,212	71	0	0	5,141
34+00.00	3400.00	9.00	27.12	0.00	0.24	0.00	9	0	0	0	5,221	71	0	0	5,150
34+50.00	3450.00	50.00	39.97	0.00	0.00	0.00	62	0	0	0	5,283	71	0	0	5,212
35+00.00	3500.00	50.00	27.48	0.00	0.72	0.00	62	0	1	0	5,345	73	0	0	5,273
35+11.00	3511.00	11.00	30.69	0.00	0.74	0.00	12	0	0	0	5,357	73	0	0	5,285
35+50.00	3550.00	39.00	33.33	0.00	0.17	0.00	46	0	1	0	5,403	74	0	0	5,329
36+00.00	3600.00	50.00	33.09	0.00	0.61	0.00	62	0	1	0	5,465	75	0	0	5,390
36+19.02	3619.02	19.02	32.83	0.00	1.45	0.00	23	0	1	0	5,488	76	0	0	5,412
36+26.20	3626.20	7.18	29.41	0.00	4.80	0.00	8	0	1	0	5,496	78	0	0	5,419
36+50.00	3650.00	23.80	76.44	0.00	0.00	0.00	47	0	2	0	5,543	80	0	0	5,463
36+54.07	3654.07	4.07	30.23	0.00	0.00	0.00	8	0	0	0	5,551	80	0	0	5,471
UNDISTRIBUTED		0.00	0.00	0.00	0.00	0.00	0	1,803	0	0	5,551	80	0	0	3,668

NOTES:	
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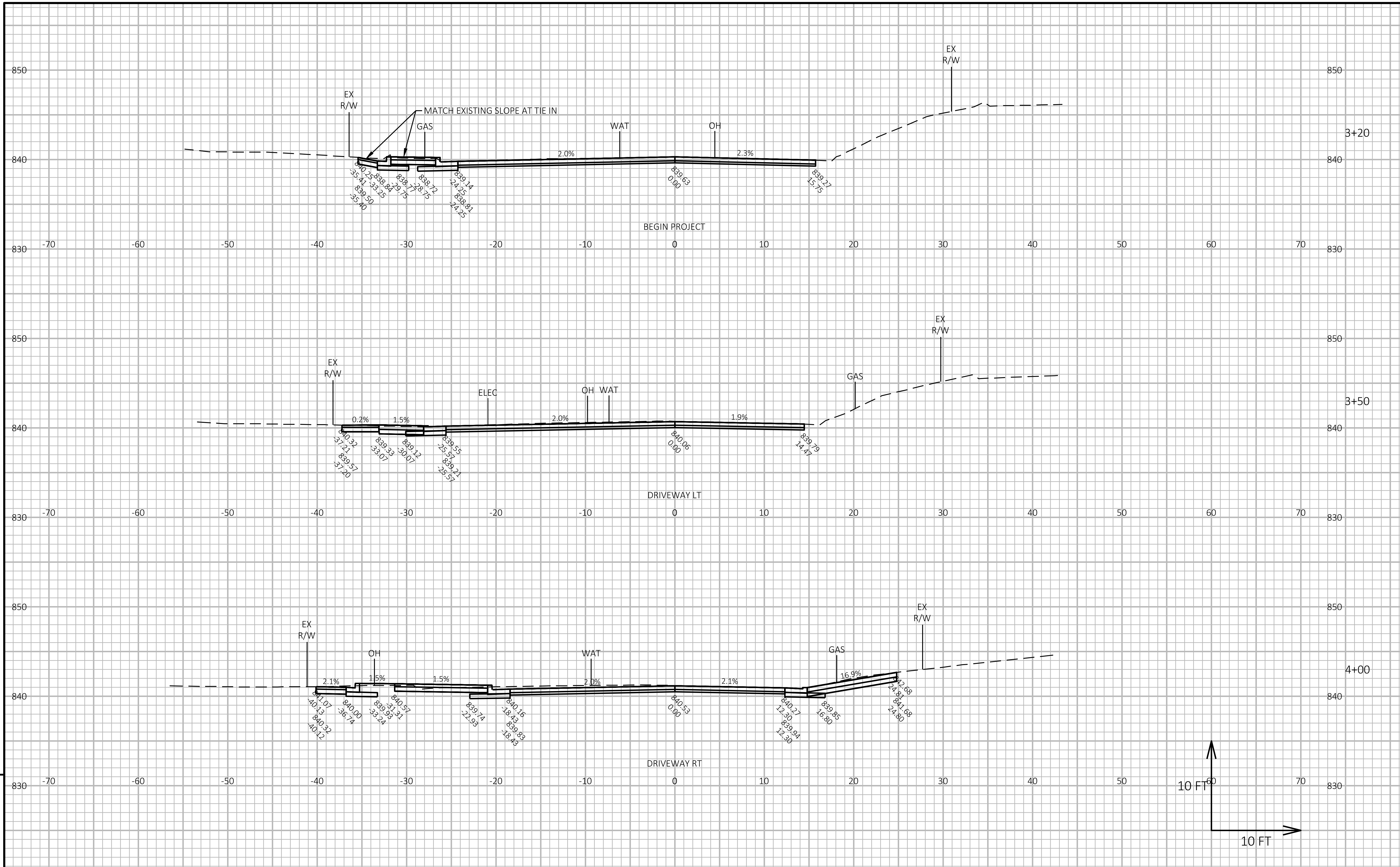
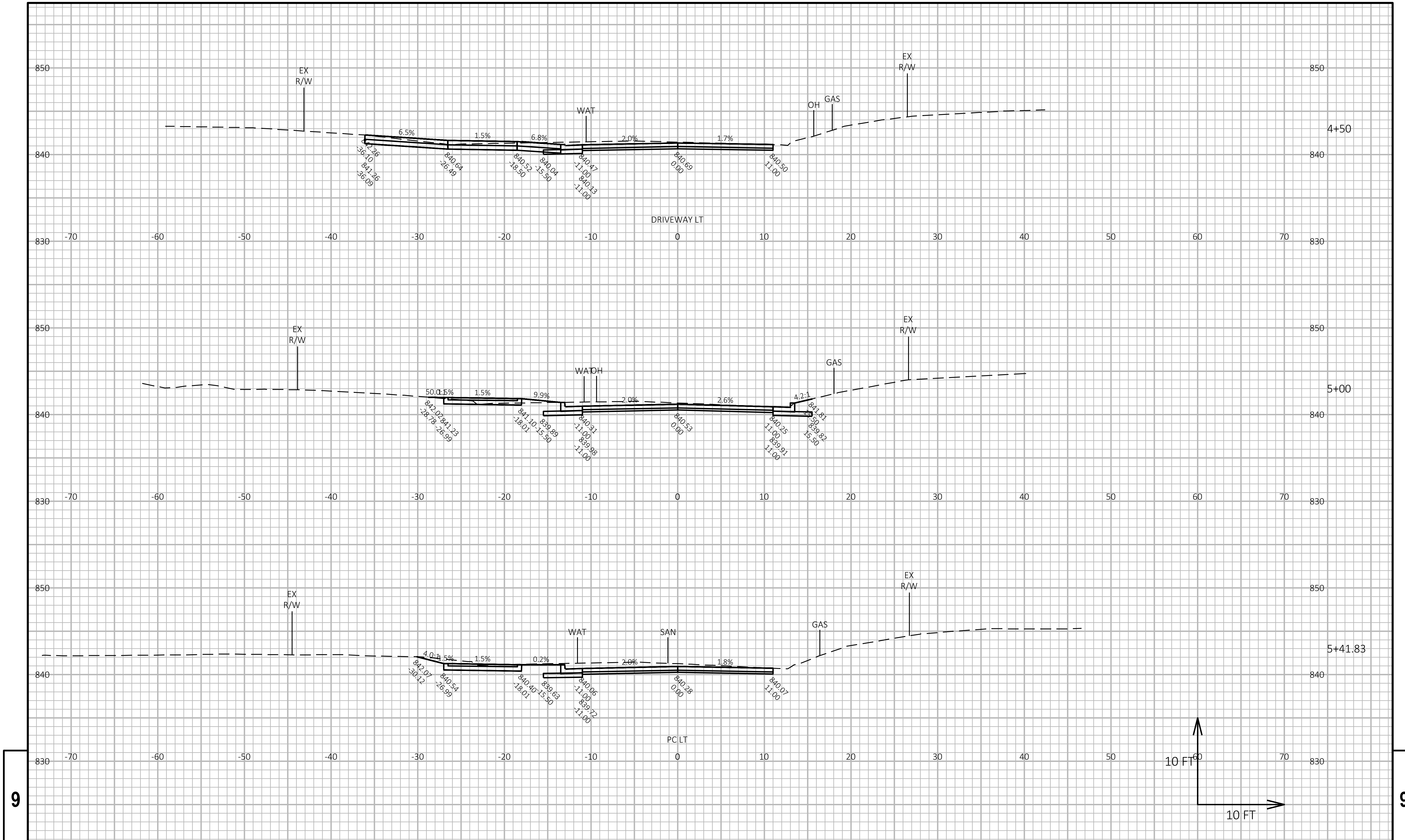
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]



9

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 165	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01
PLOT DATE : 11/16/2024 8:04 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



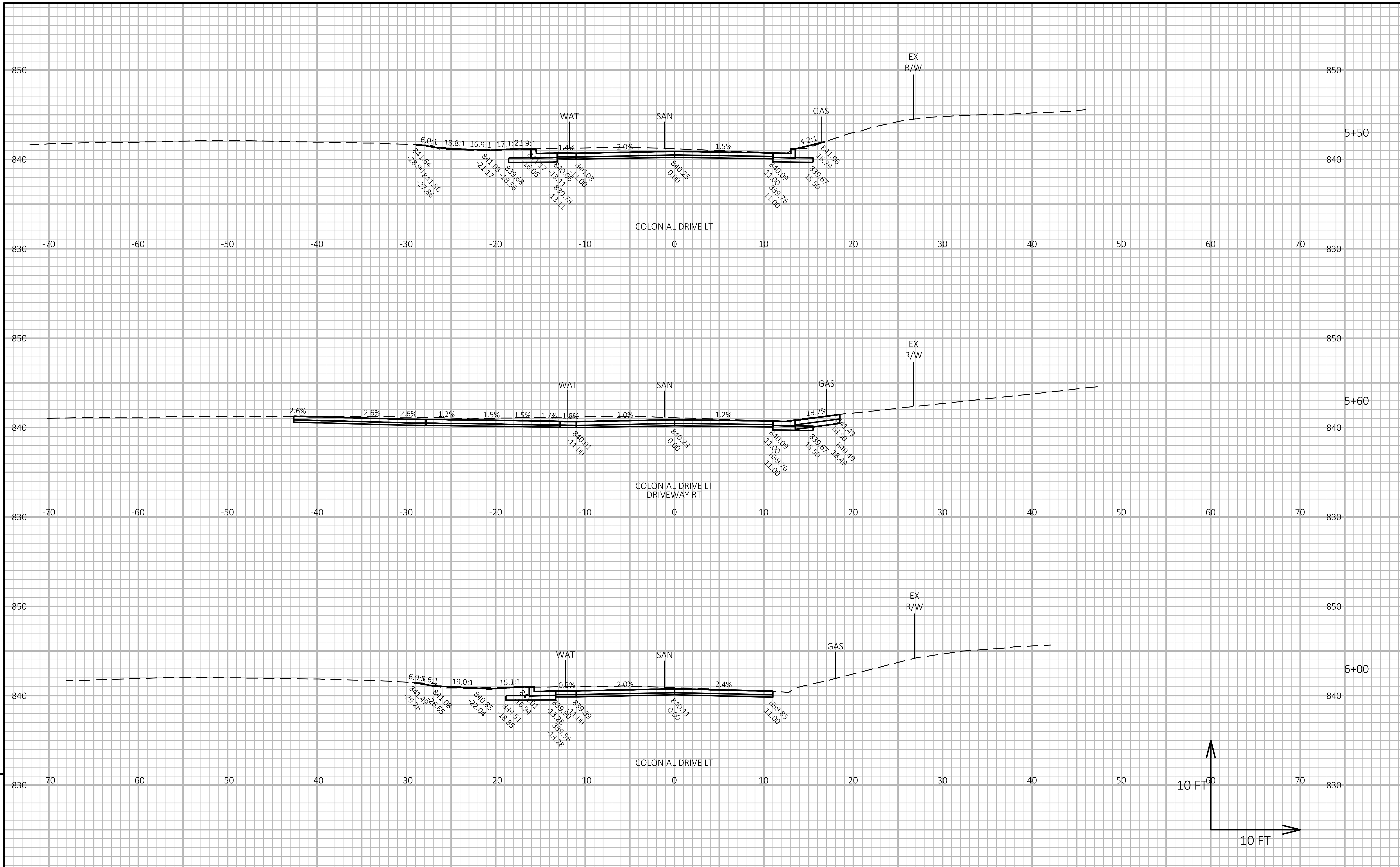
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 166	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 11/16/2024 8:05 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9



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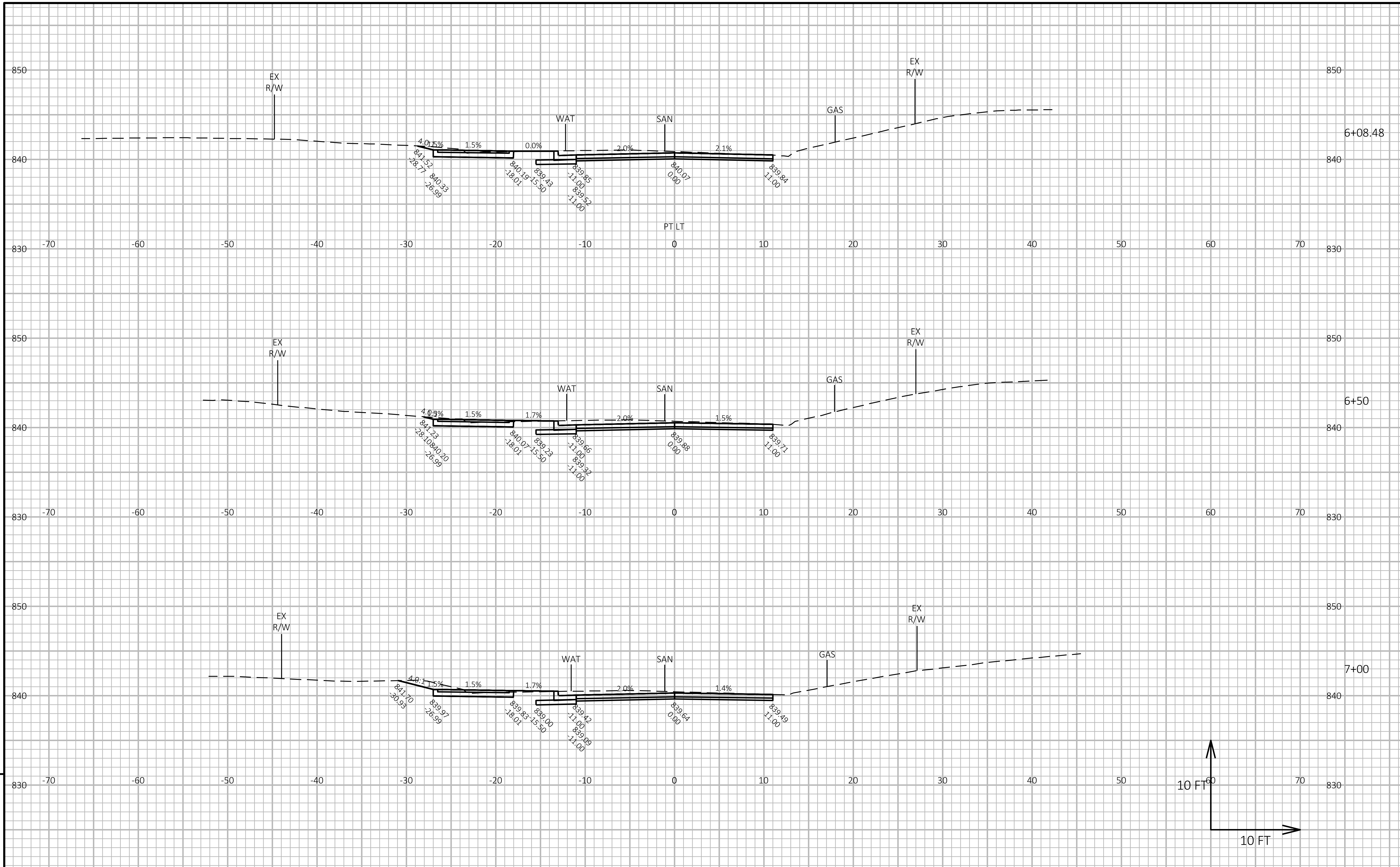
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 167	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03
PLOT DATE : 11/16/2024 8:05 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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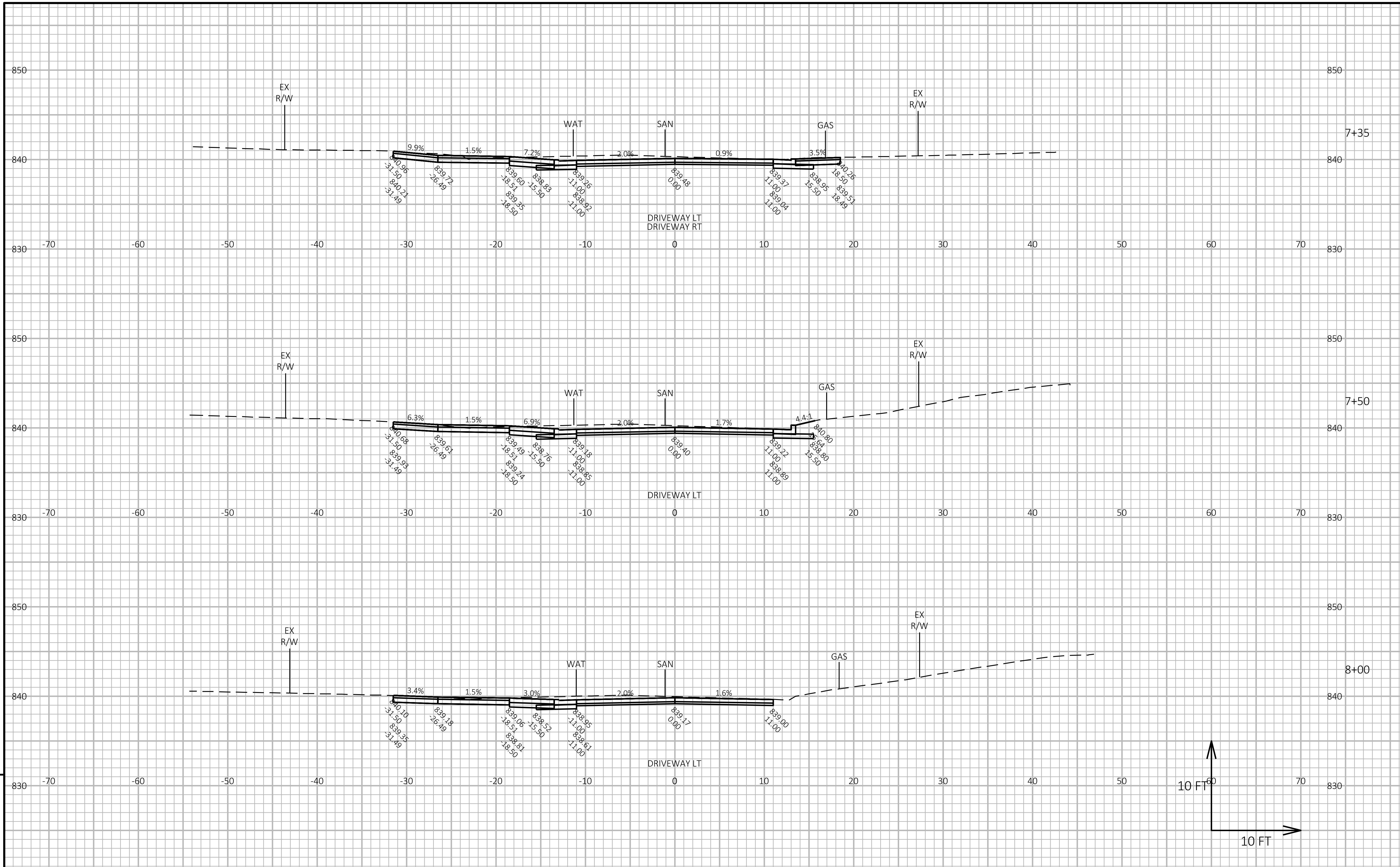
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 168	E

9



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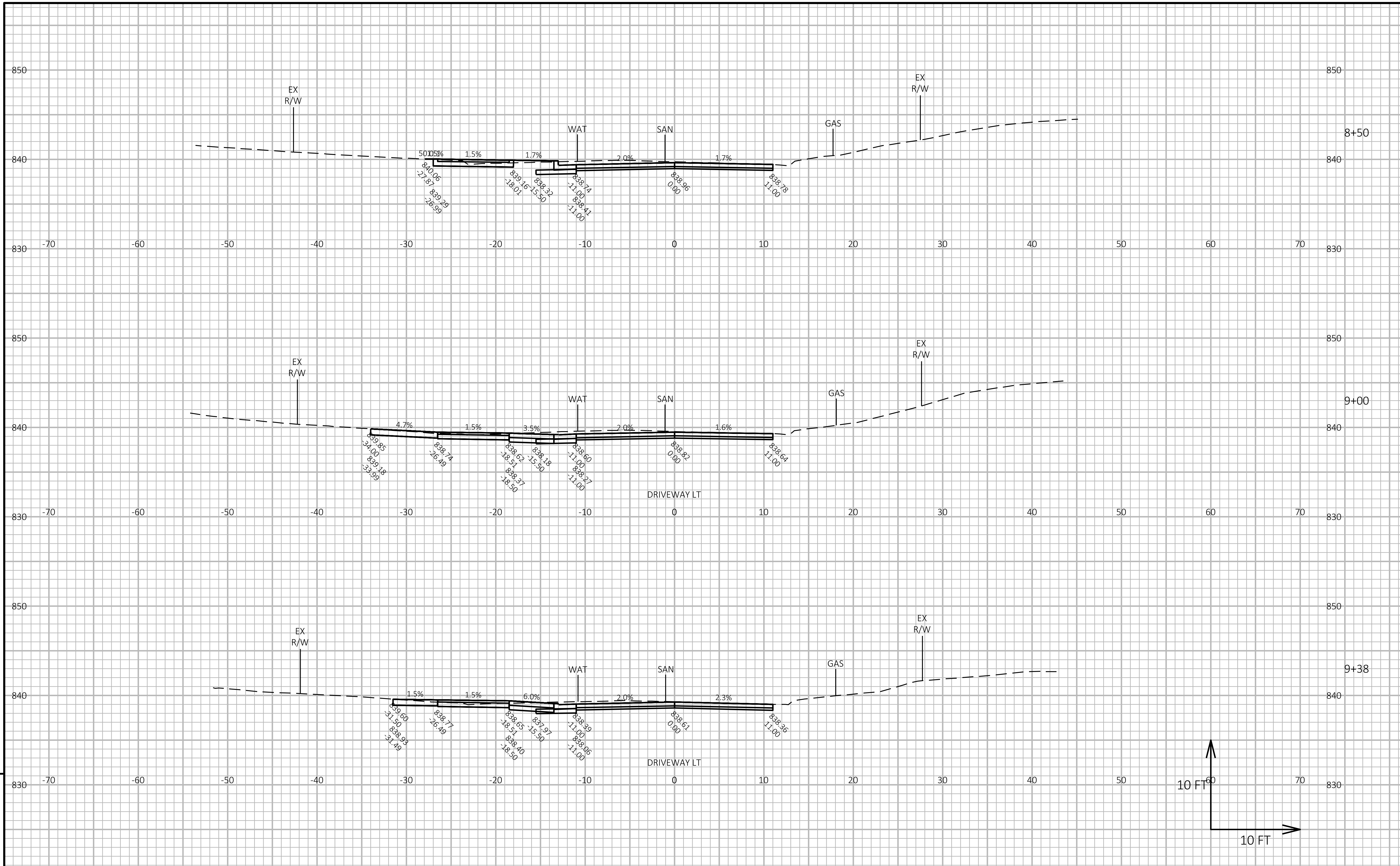
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 169	E



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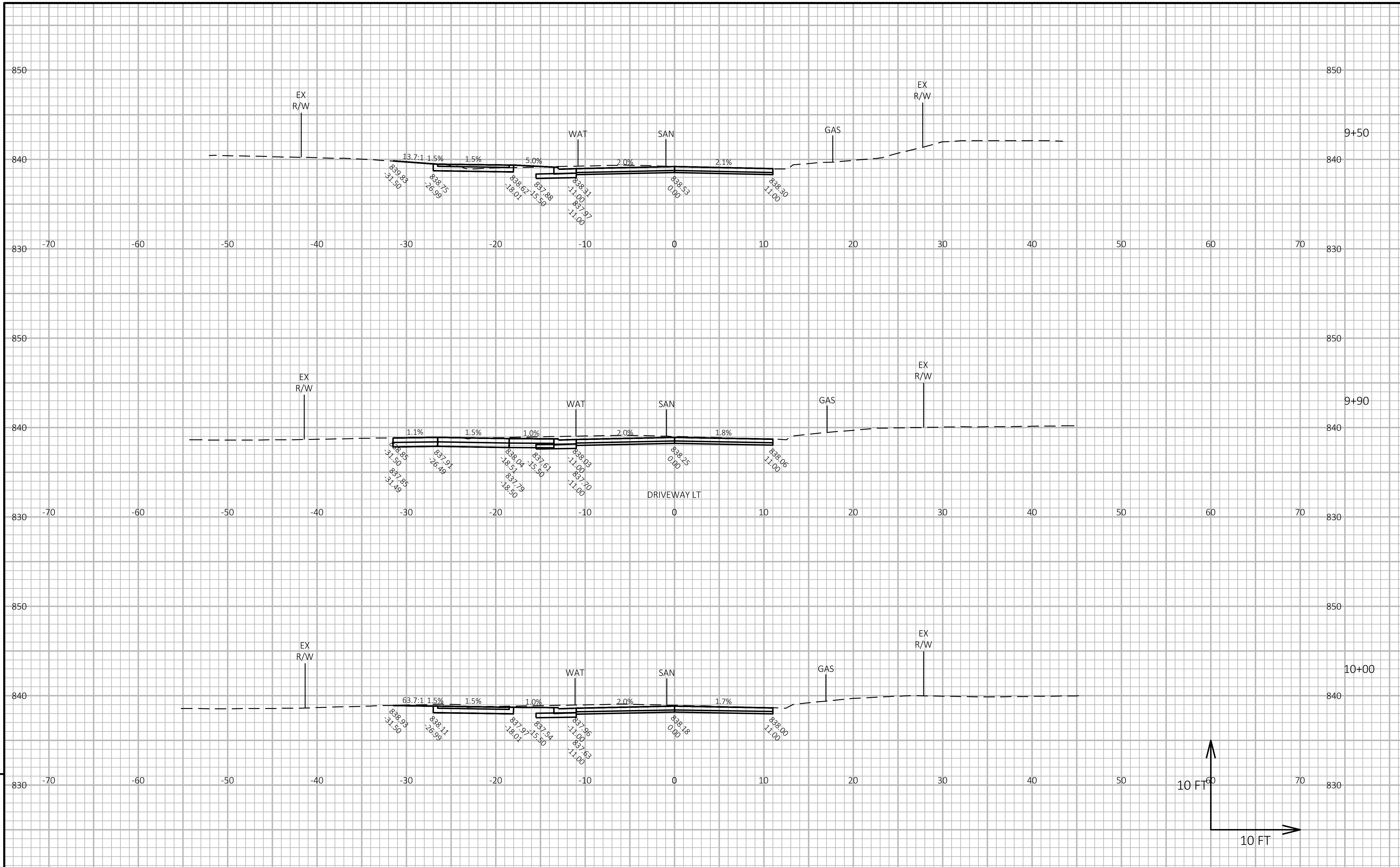
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 170	E

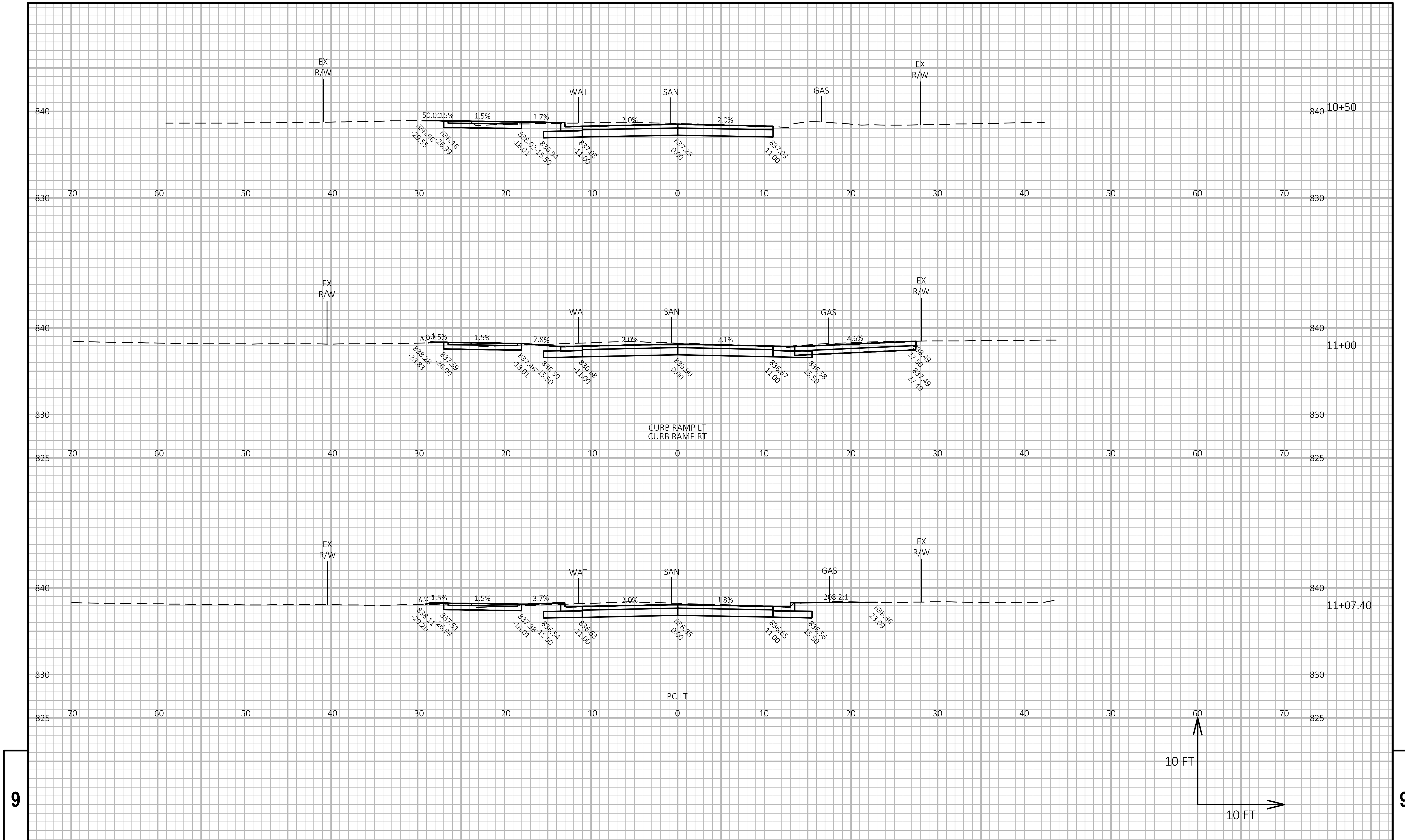
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06
PLOT DATE : 11/16/2024 8:05 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 171	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07
PLOT DATE : 11/16/2024 8:05 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

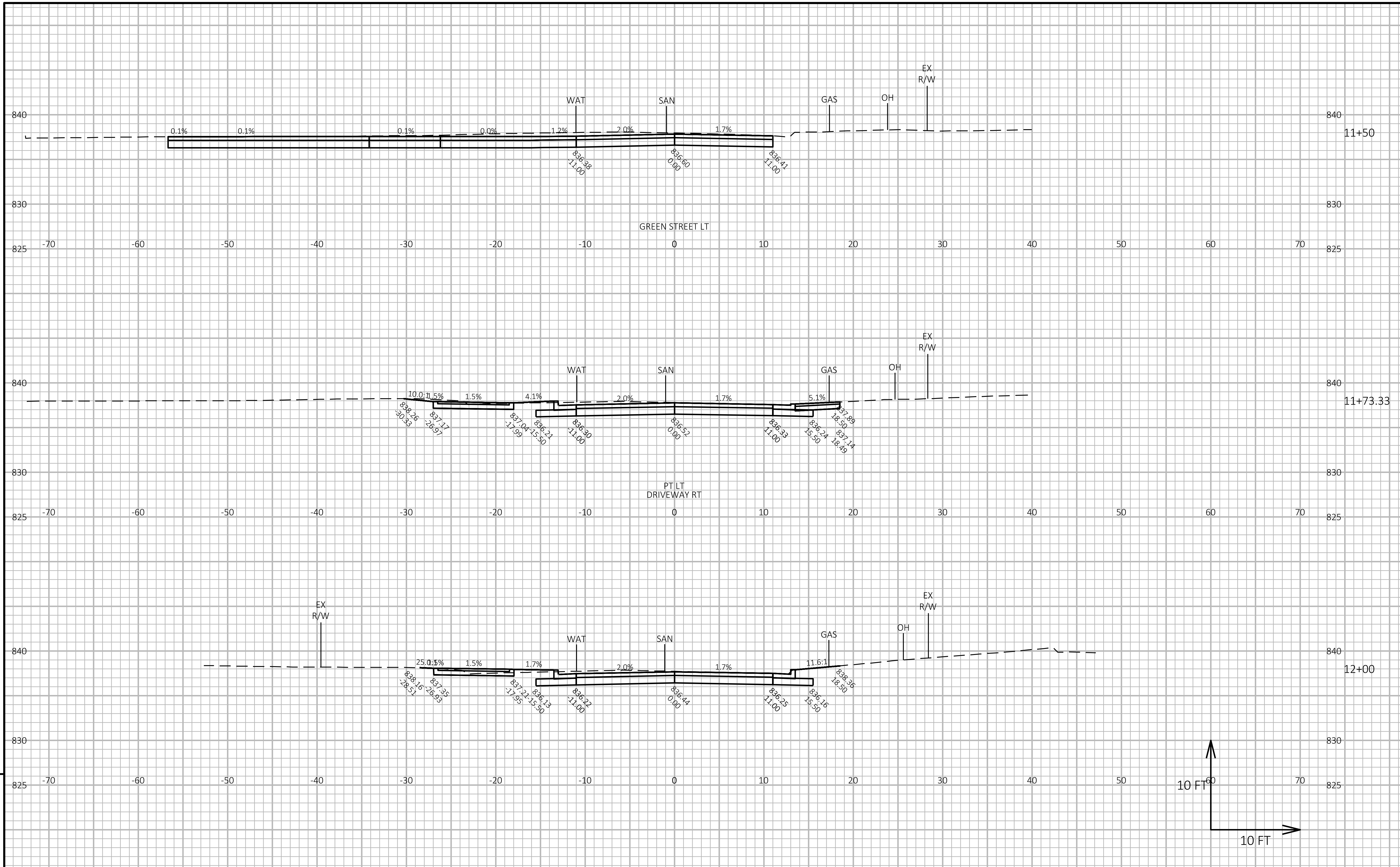


PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 172	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 11/16/2024 8:05 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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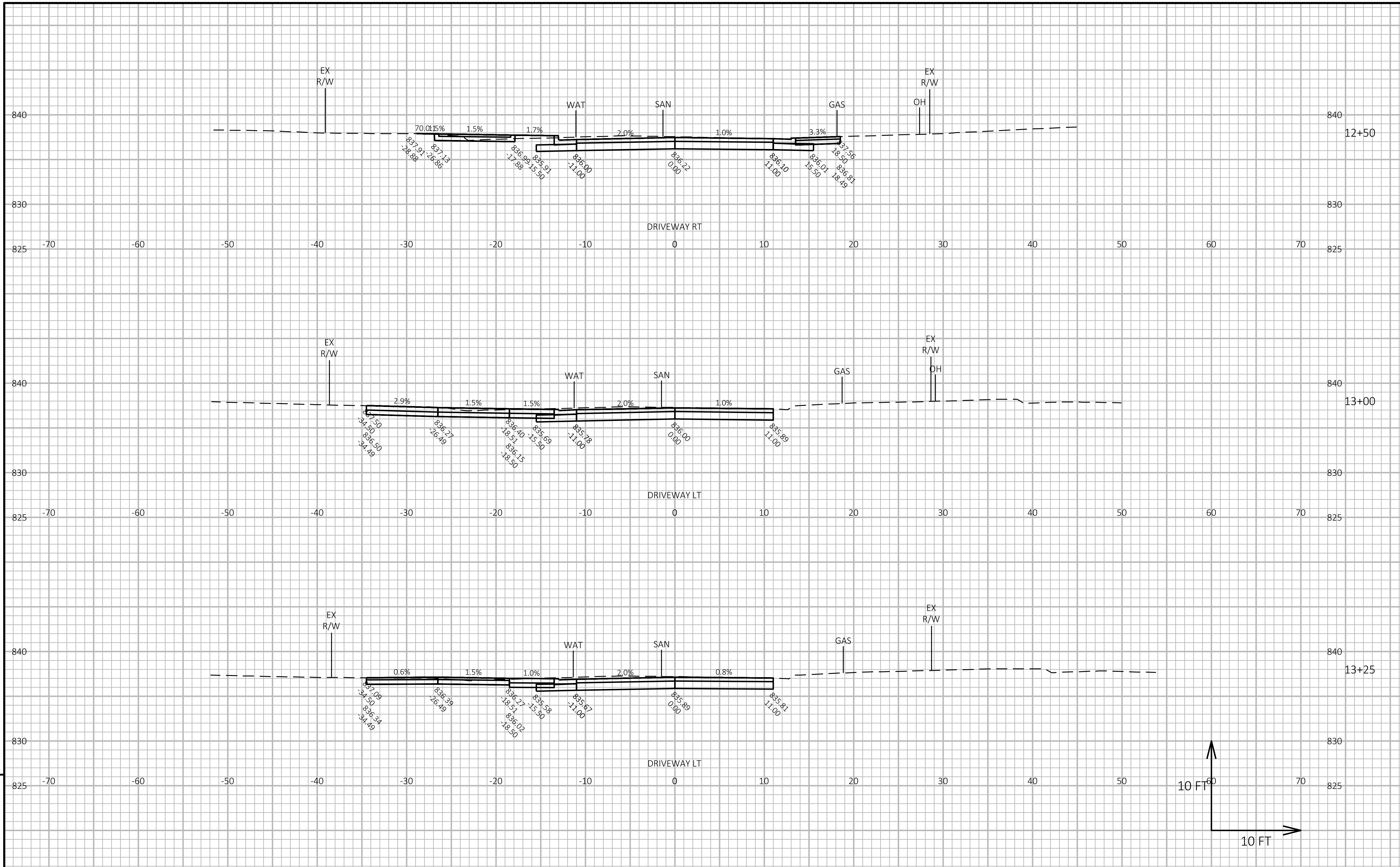
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 173 E



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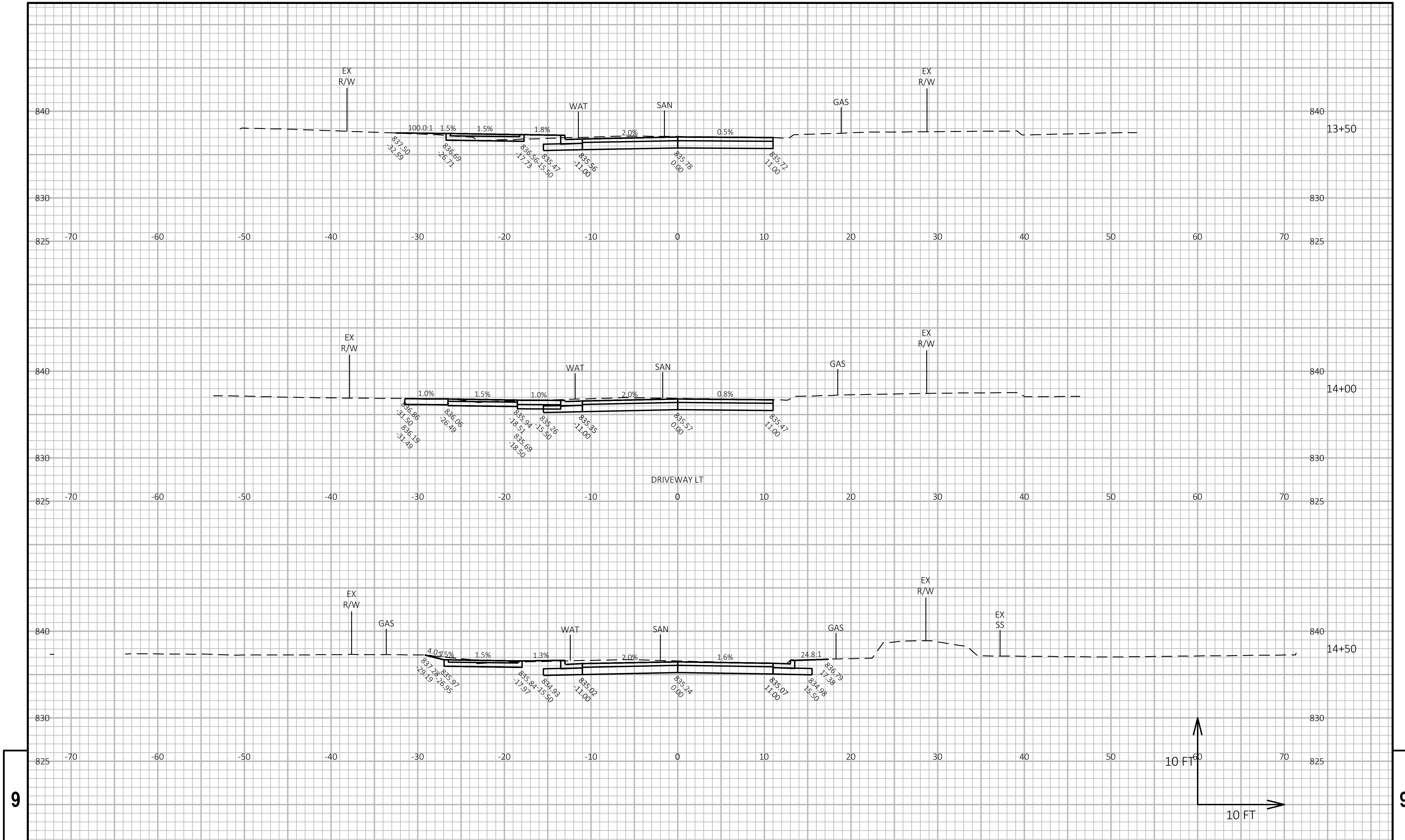
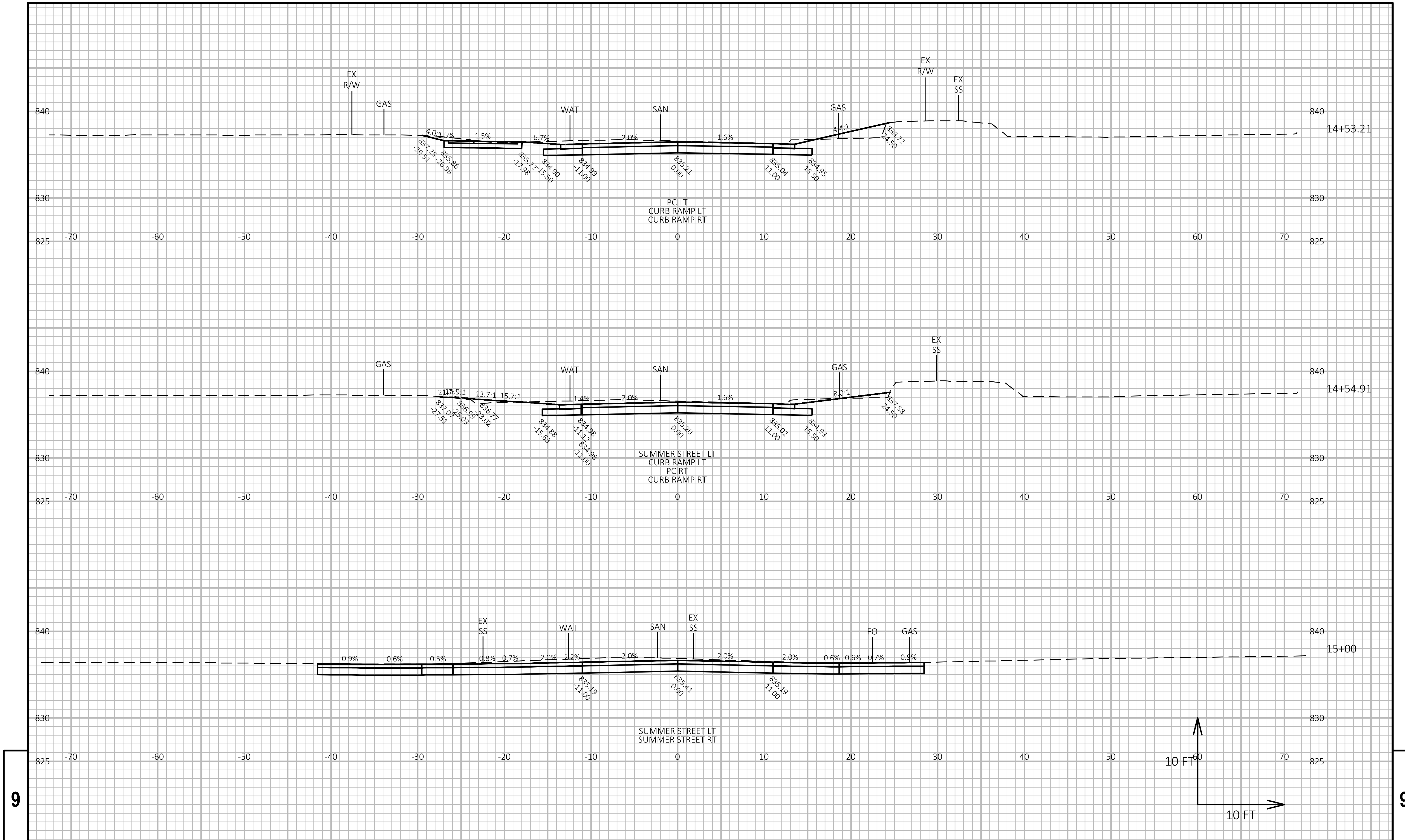
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 174	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10
PLOT DATE : 11/16/2024 8:06 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

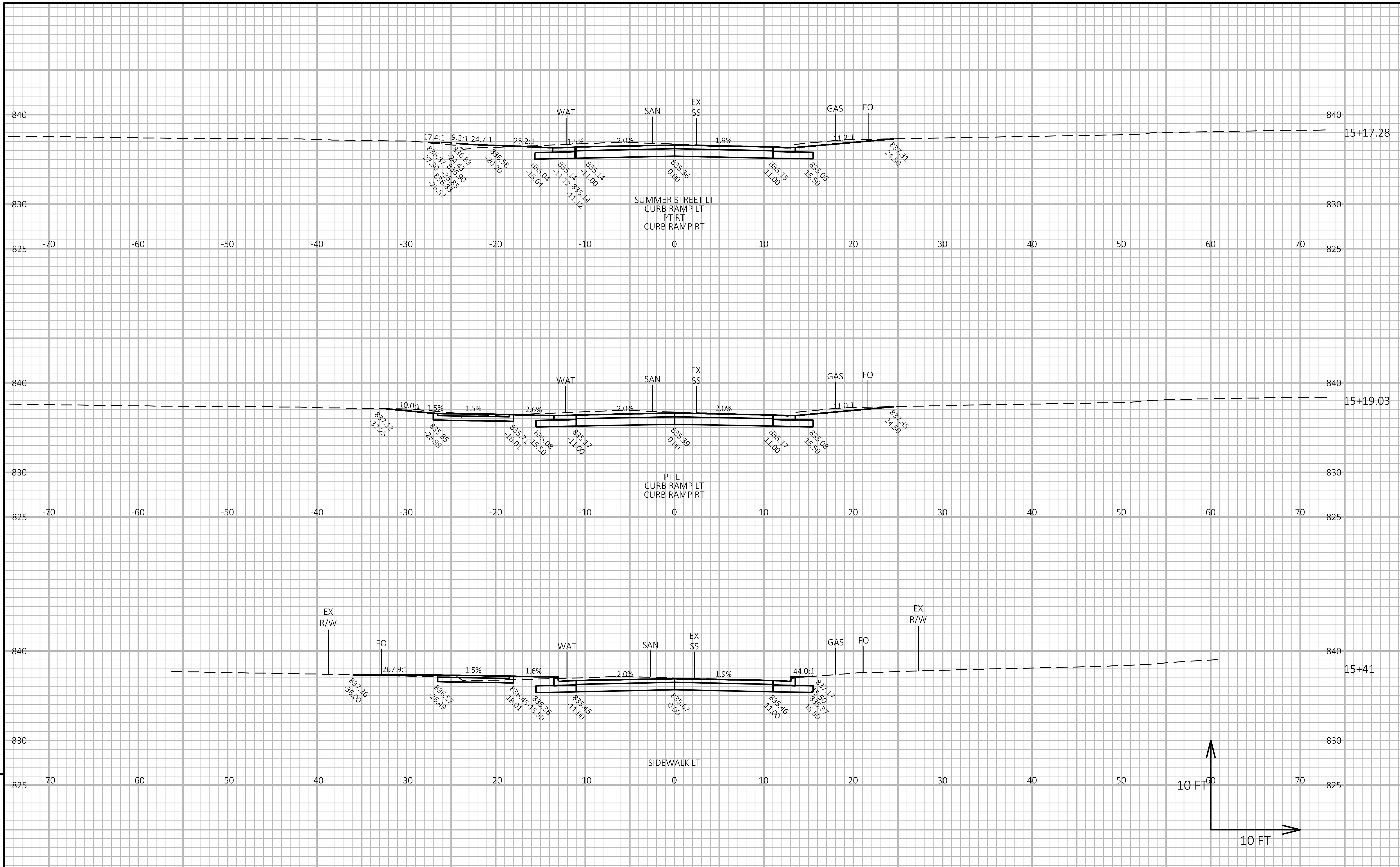


PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 175	E



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 176	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12
PLOT DATE : 11/16/2024 8:06 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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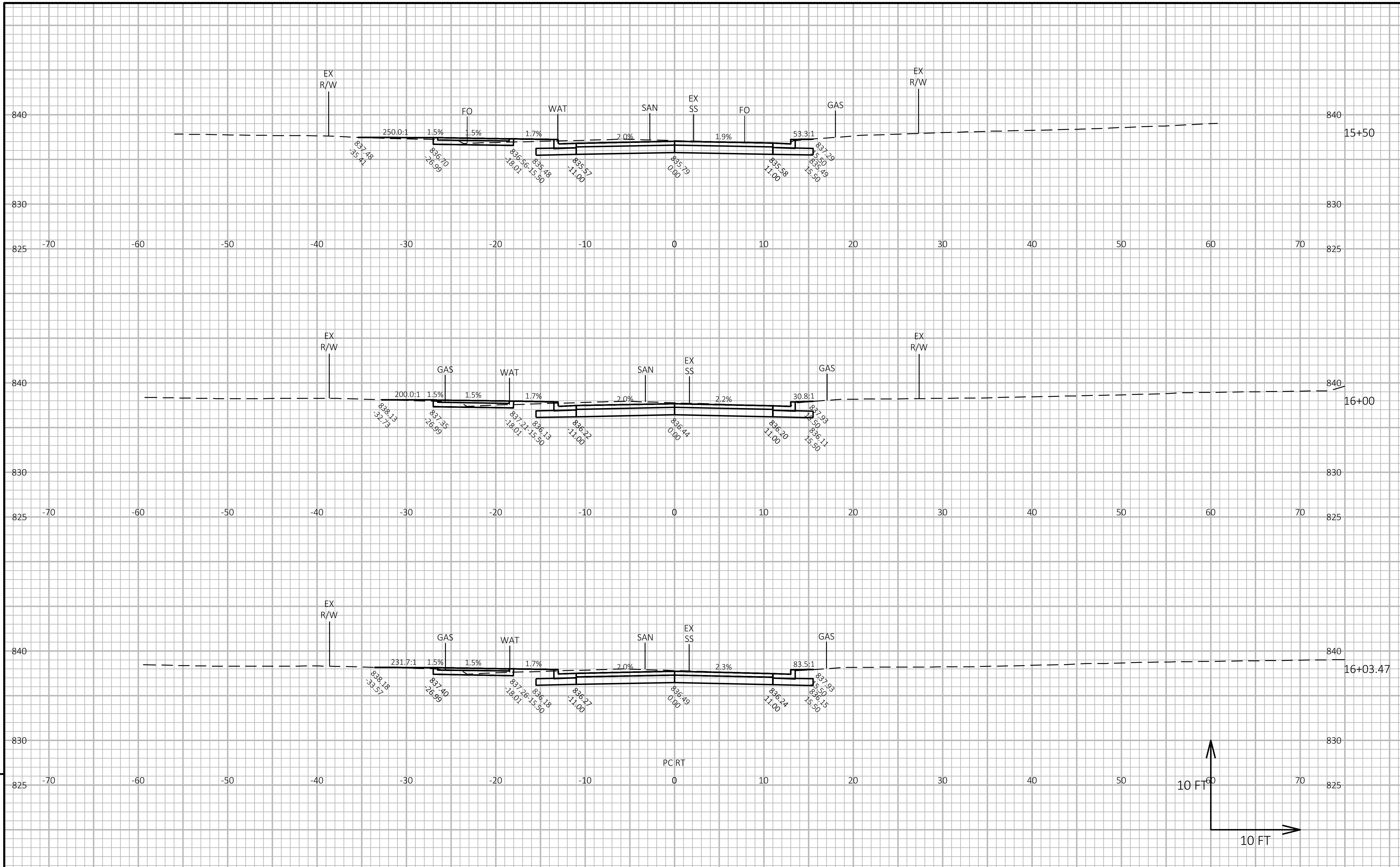
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 177	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13
PLOT DATE : 11/16/2024 8:06 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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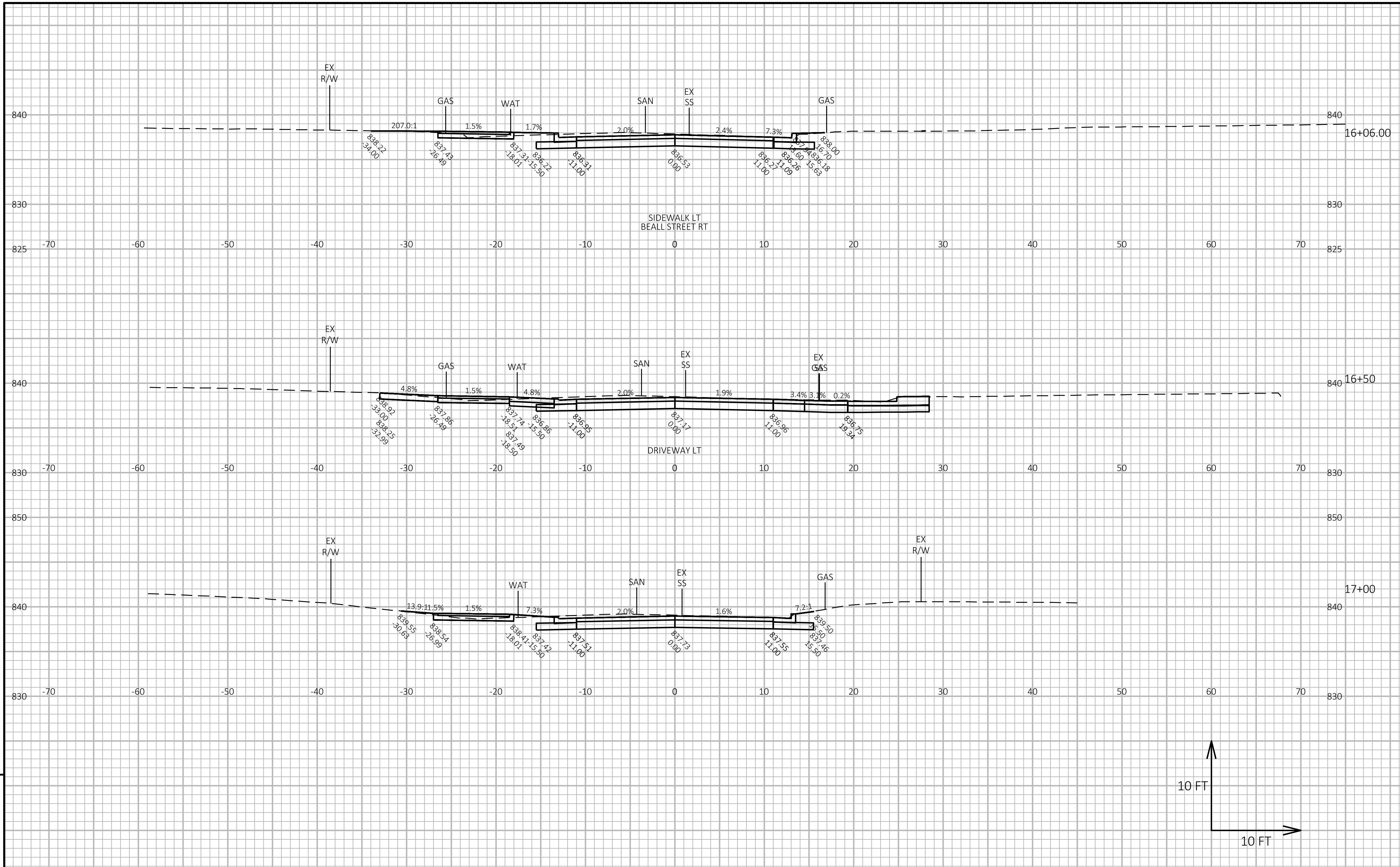
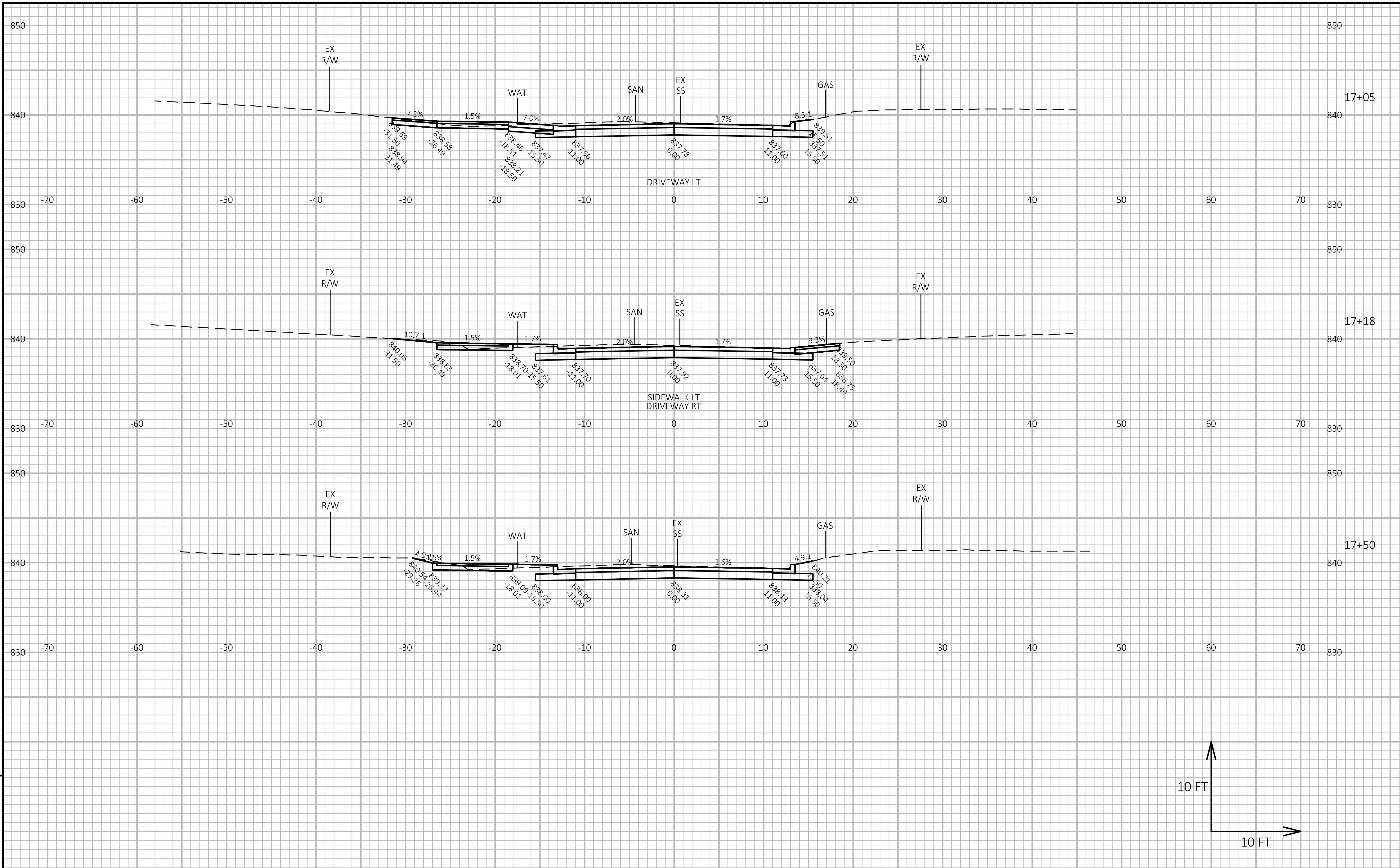
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 178	E



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 179 E



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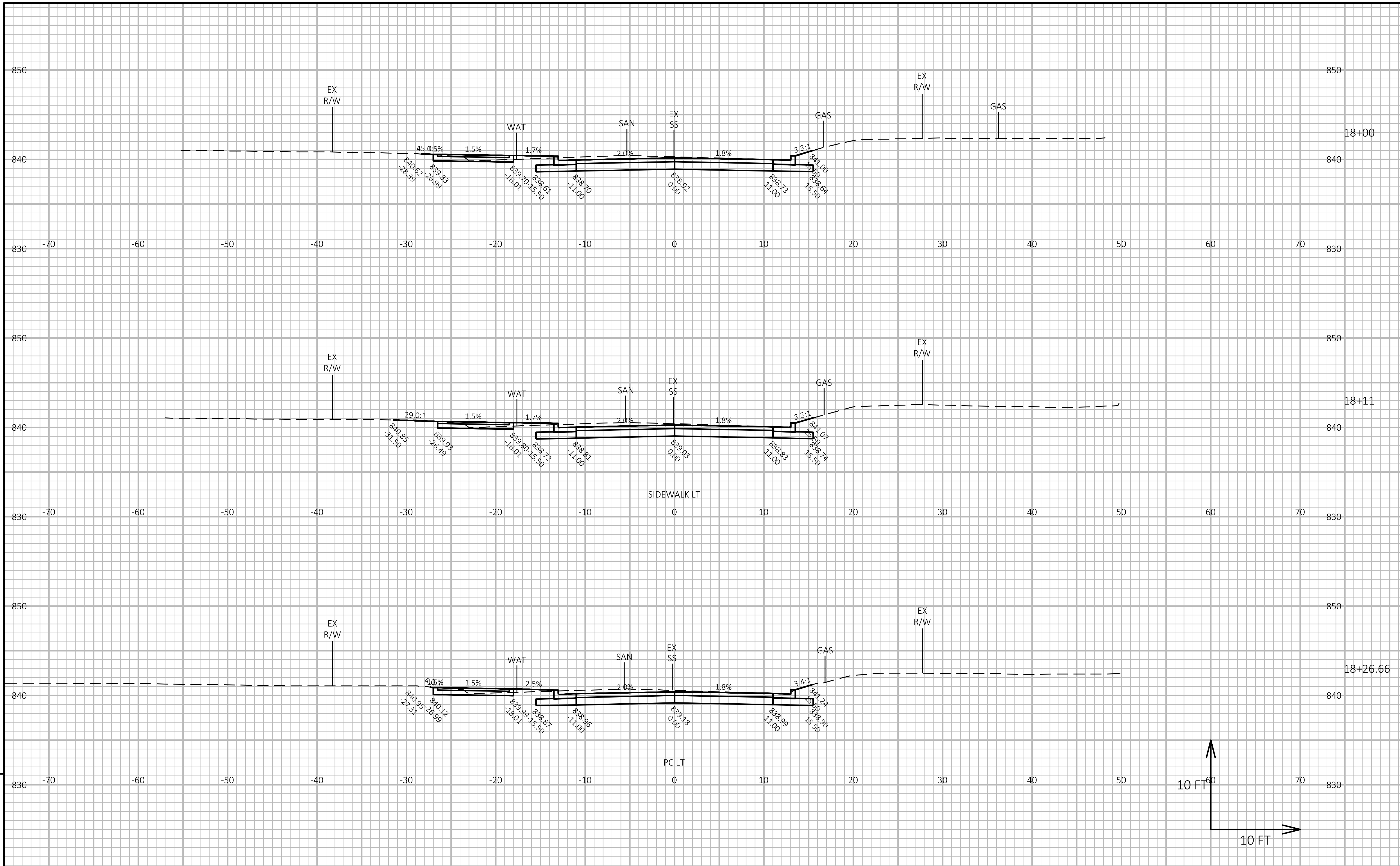
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 180	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 16
PLOT DATE : 11/16/2024 8:06 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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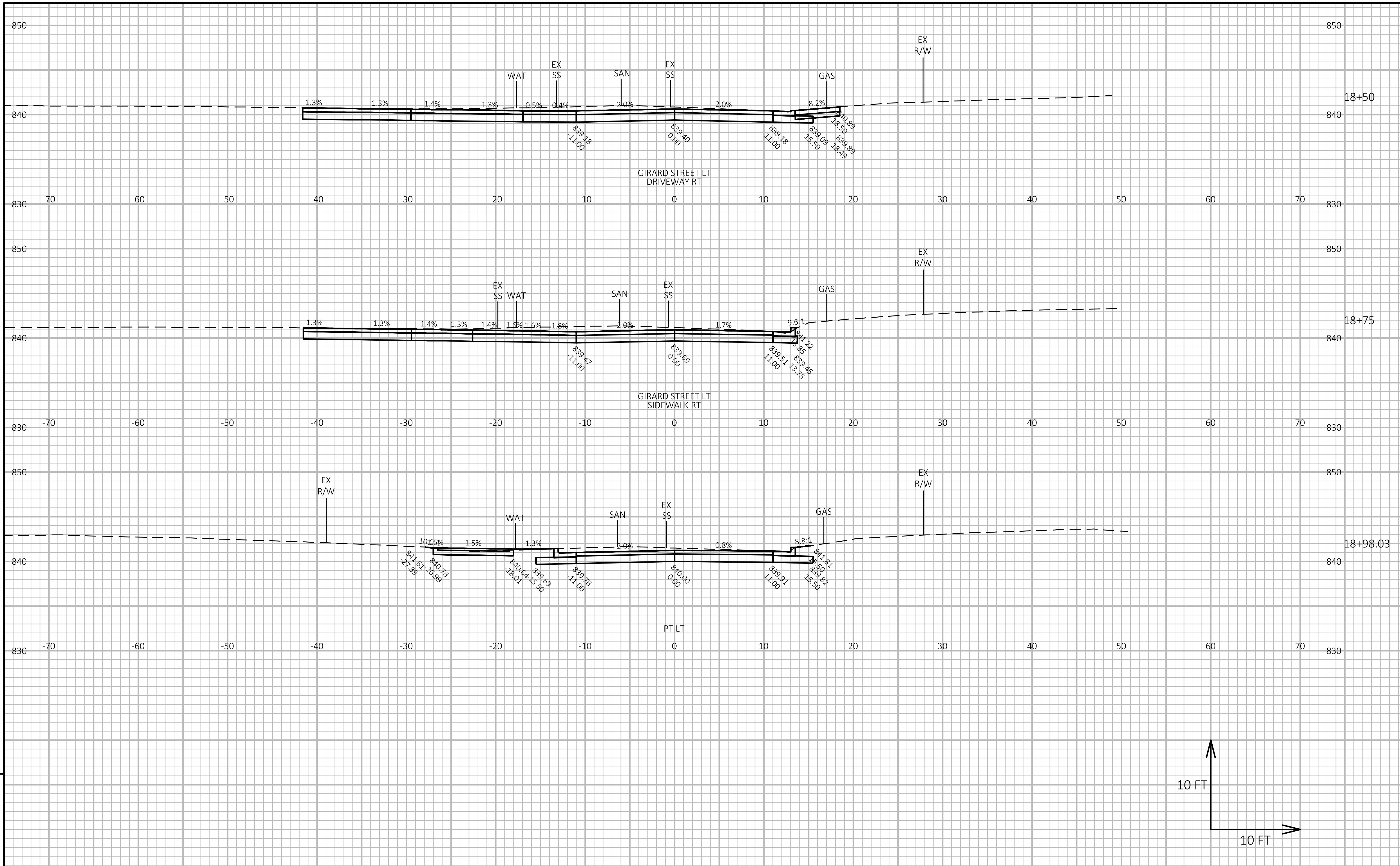
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 181 E

9



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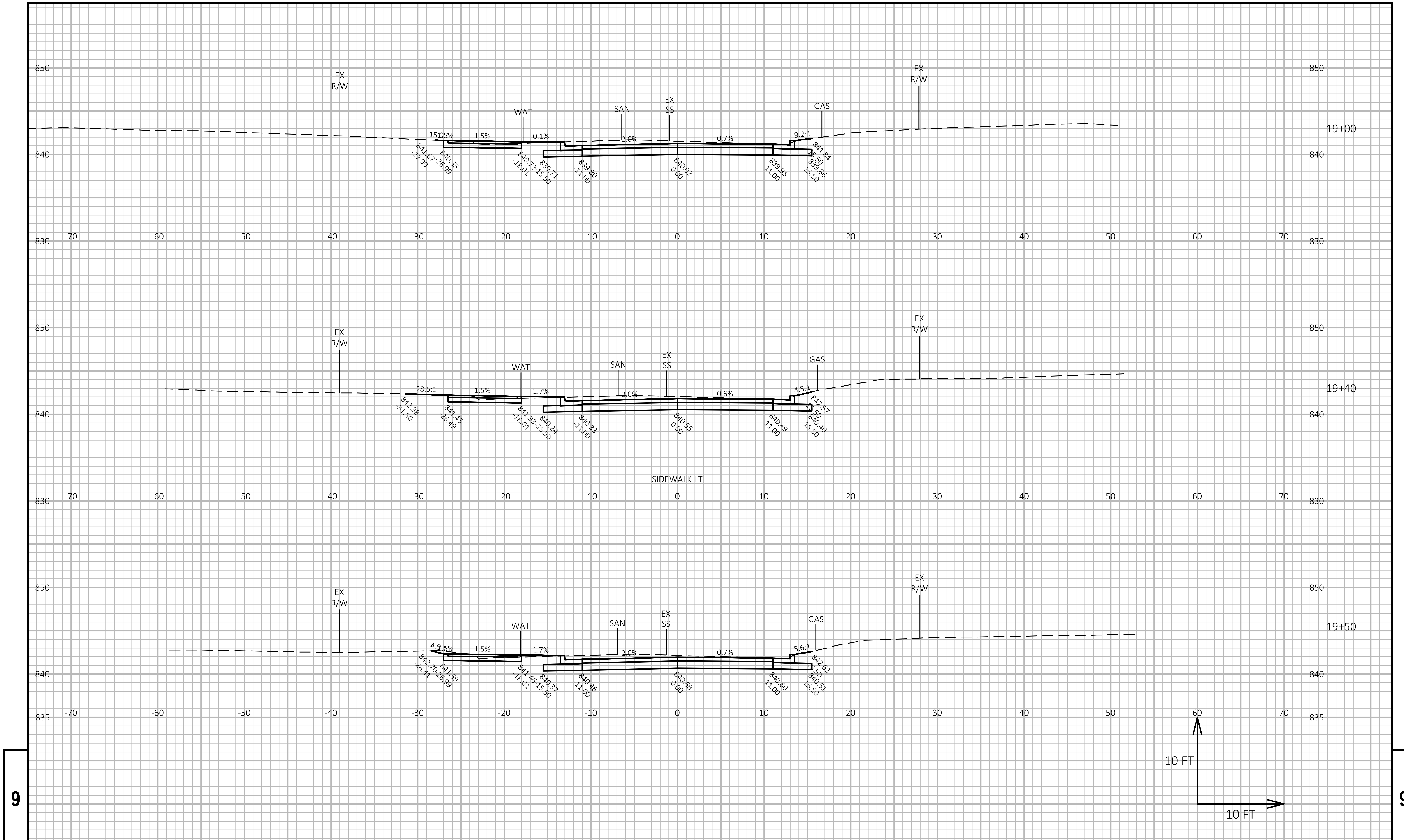
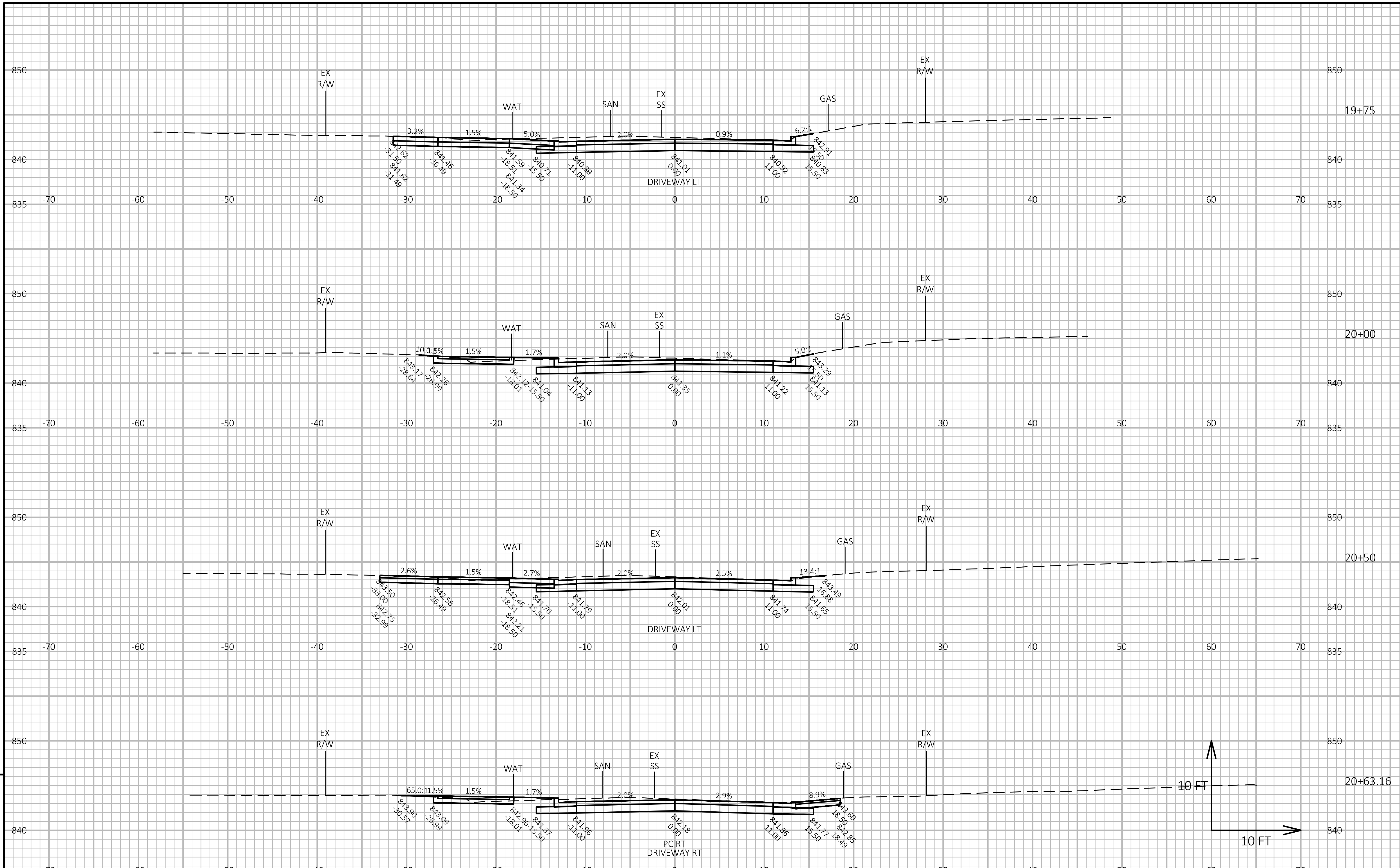
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 182 E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 18
PLOT DATE : 11/16/2024 8:07 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 183	E

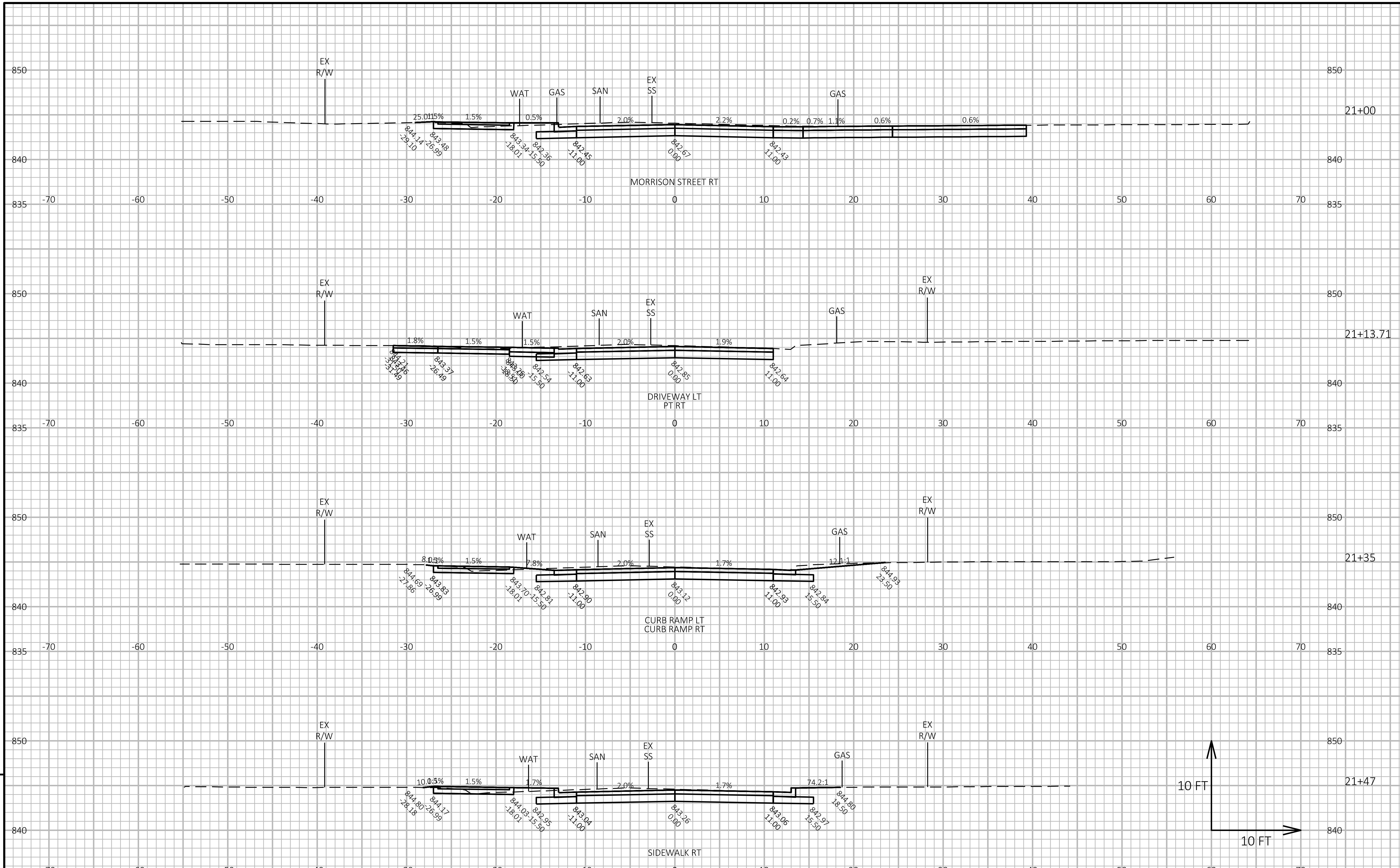


PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 184 E

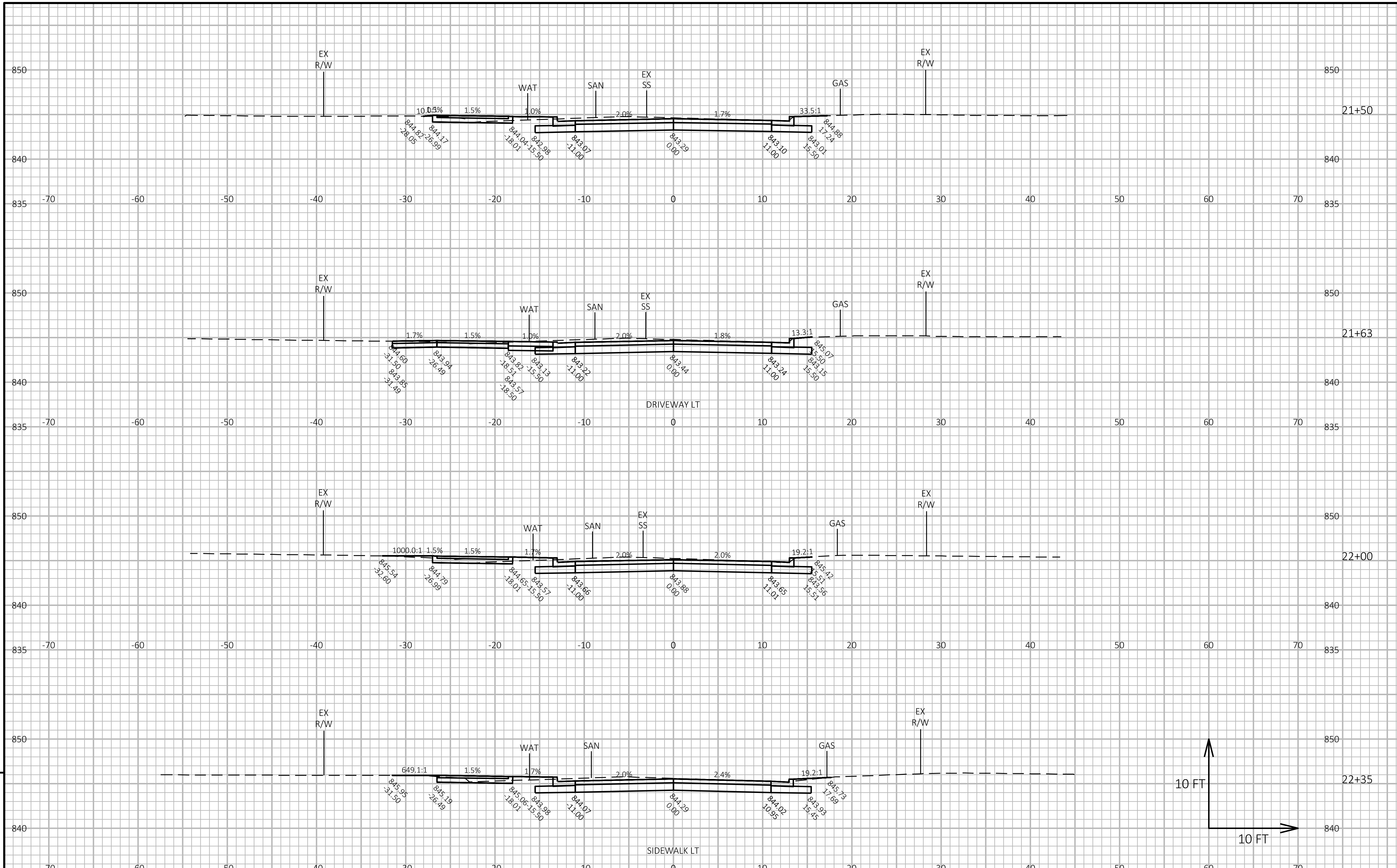
FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 20
PLOT DATE : 11/16/2024 8:07 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

9

9

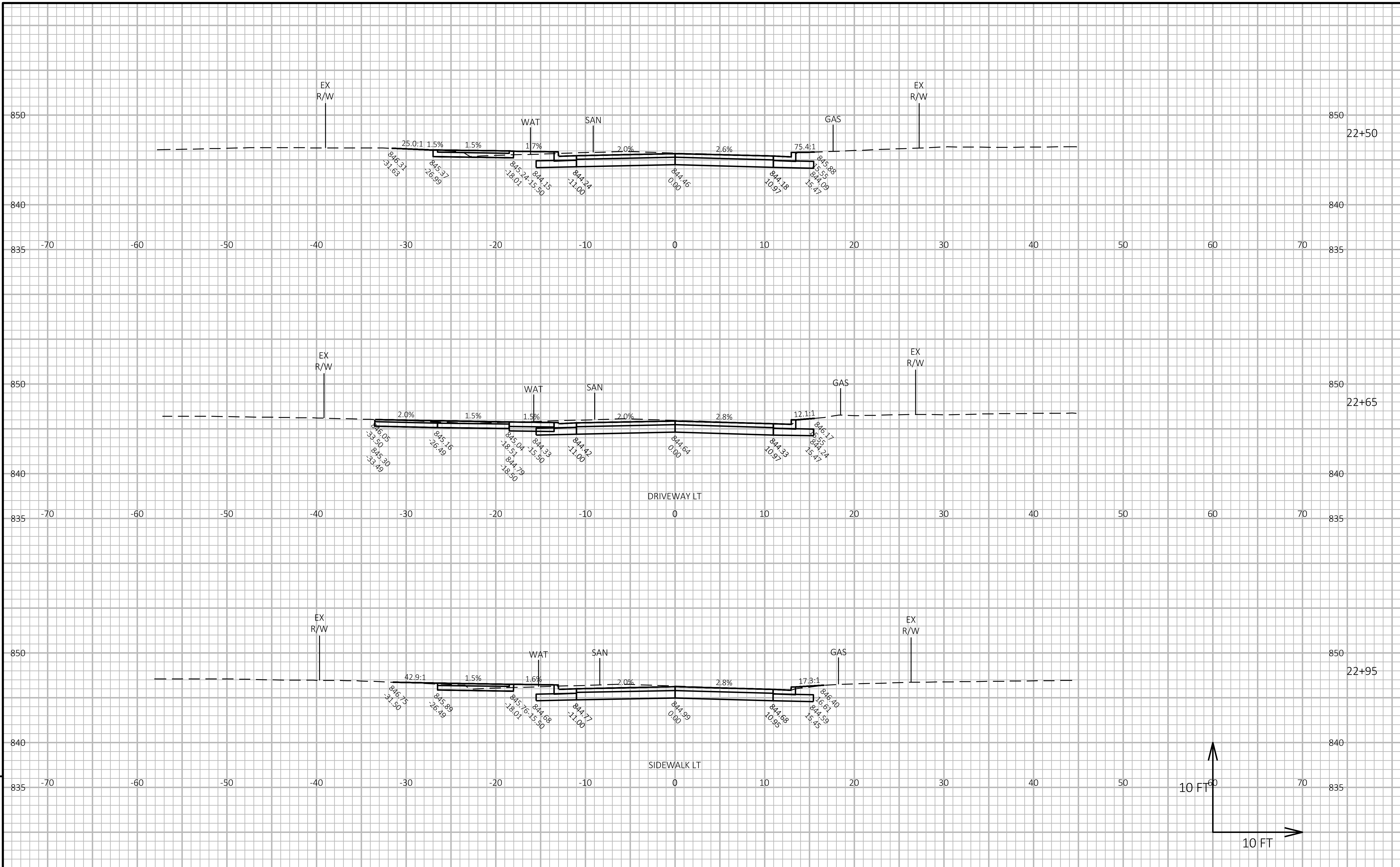


PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 185	E



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 186 E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 22
PLOT DATE : 11/16/2024 8:07 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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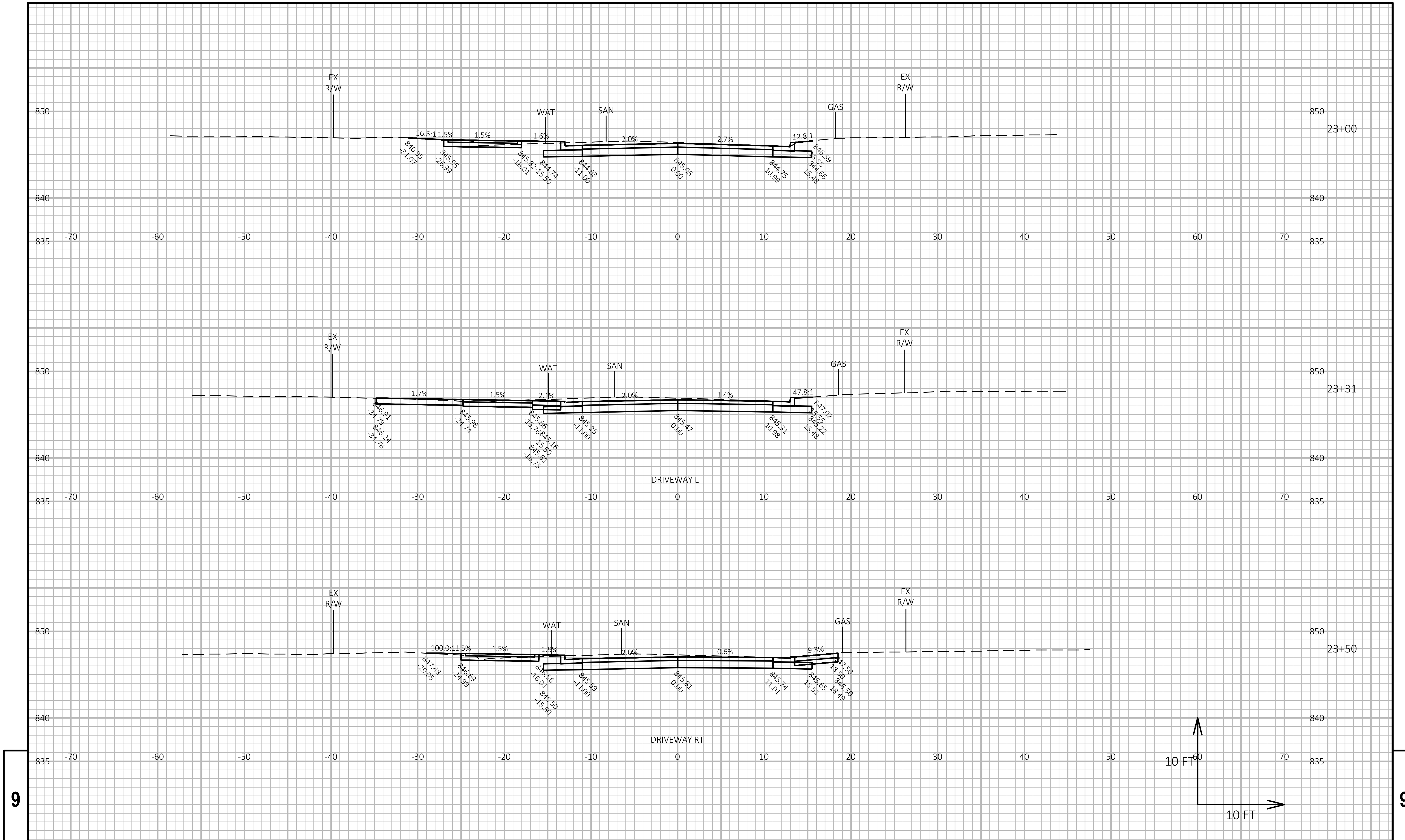
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 187	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 23

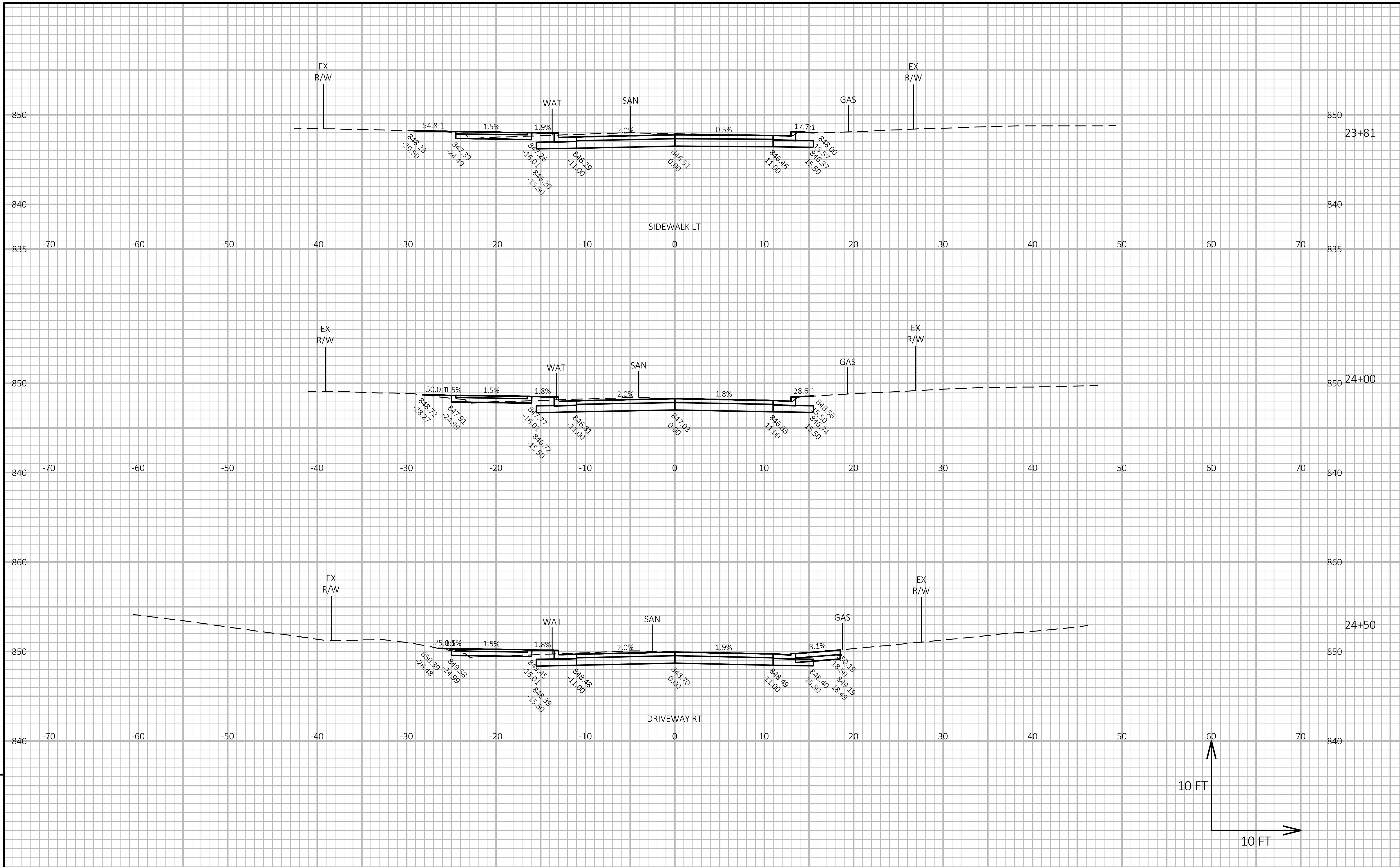
PLOT DATE : 11/16/2024 8:07 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 188	E

FILE NAME : G:\08\08814\088140026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 24
PLOT DATE : 11/16/2024 8:07 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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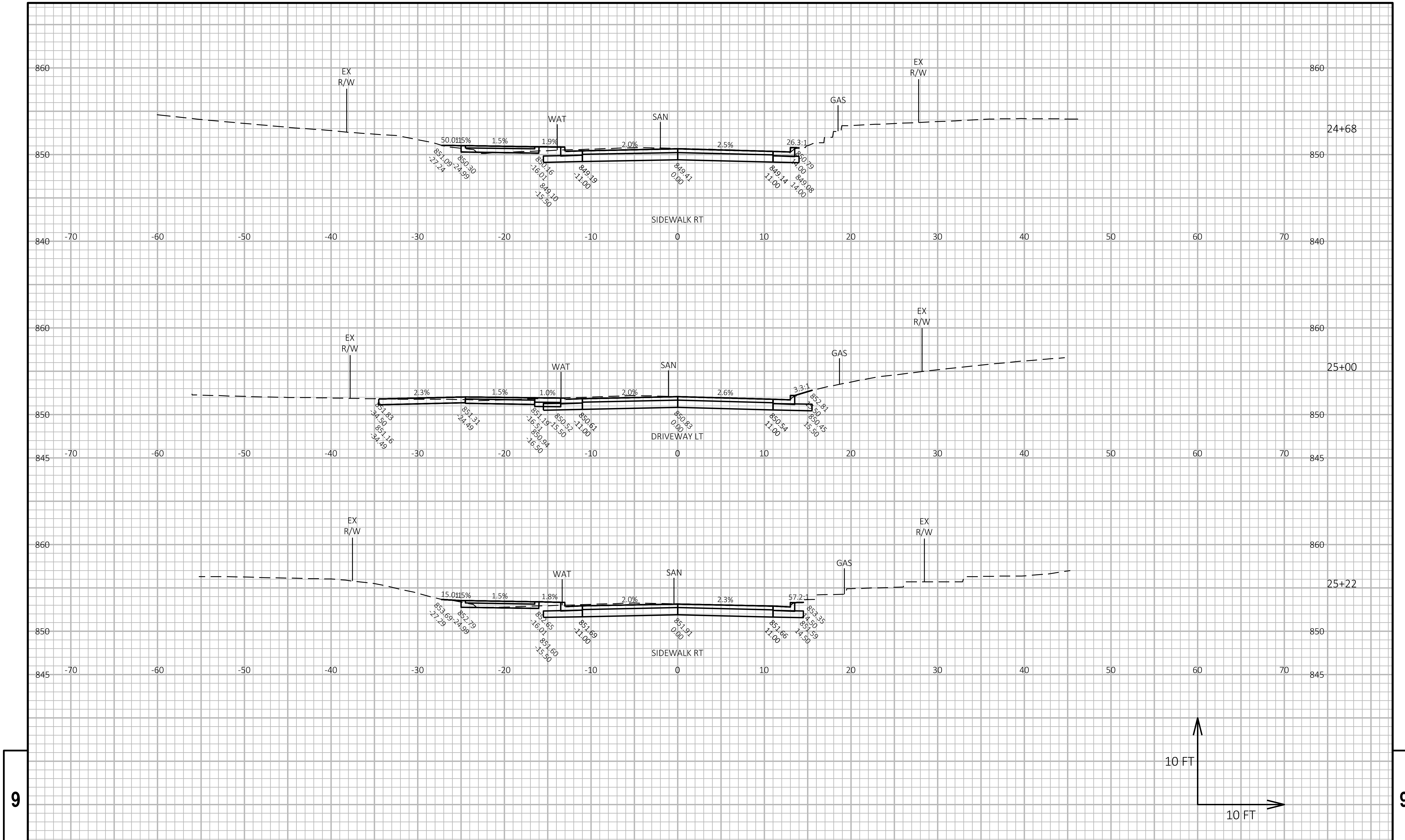
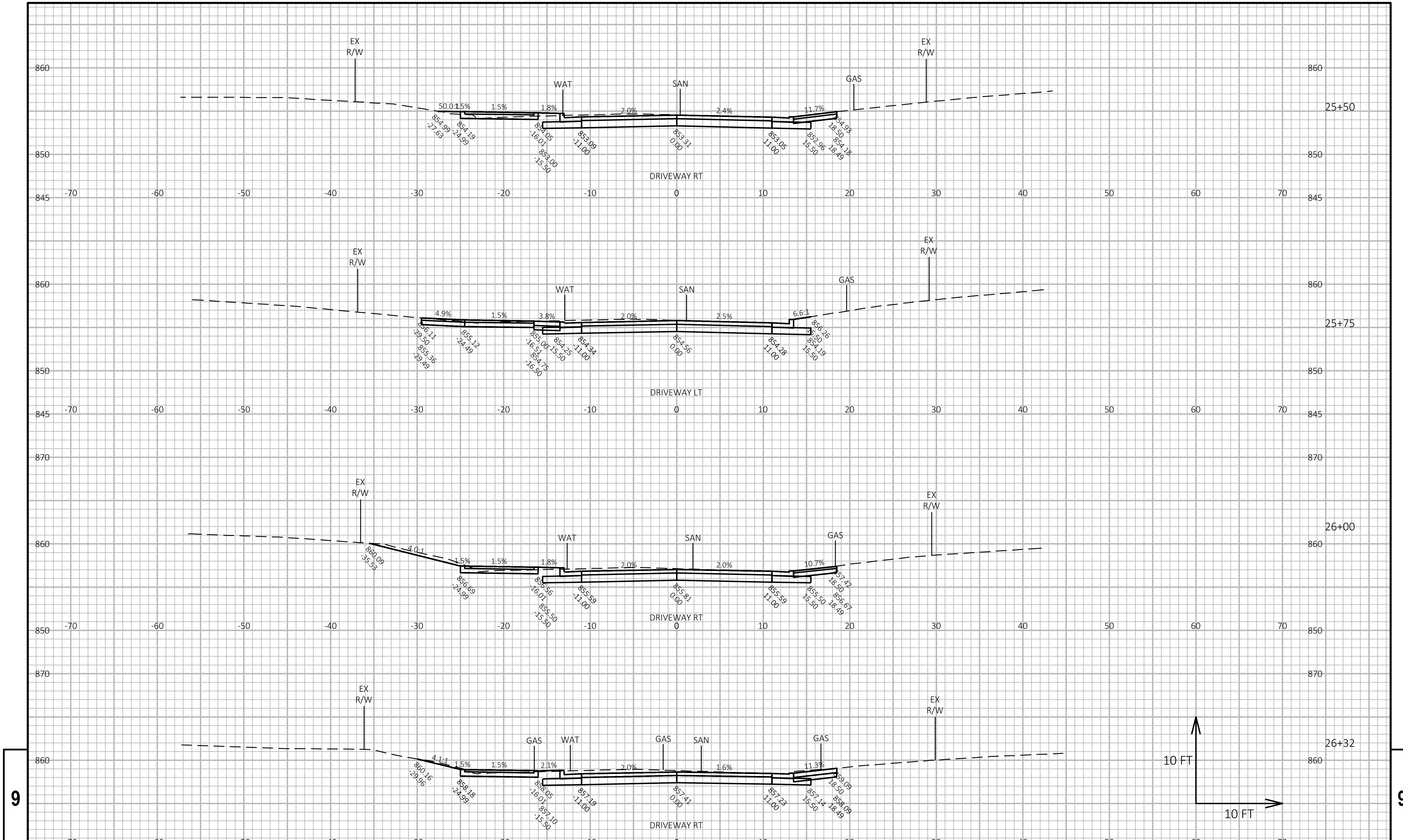
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 189	E

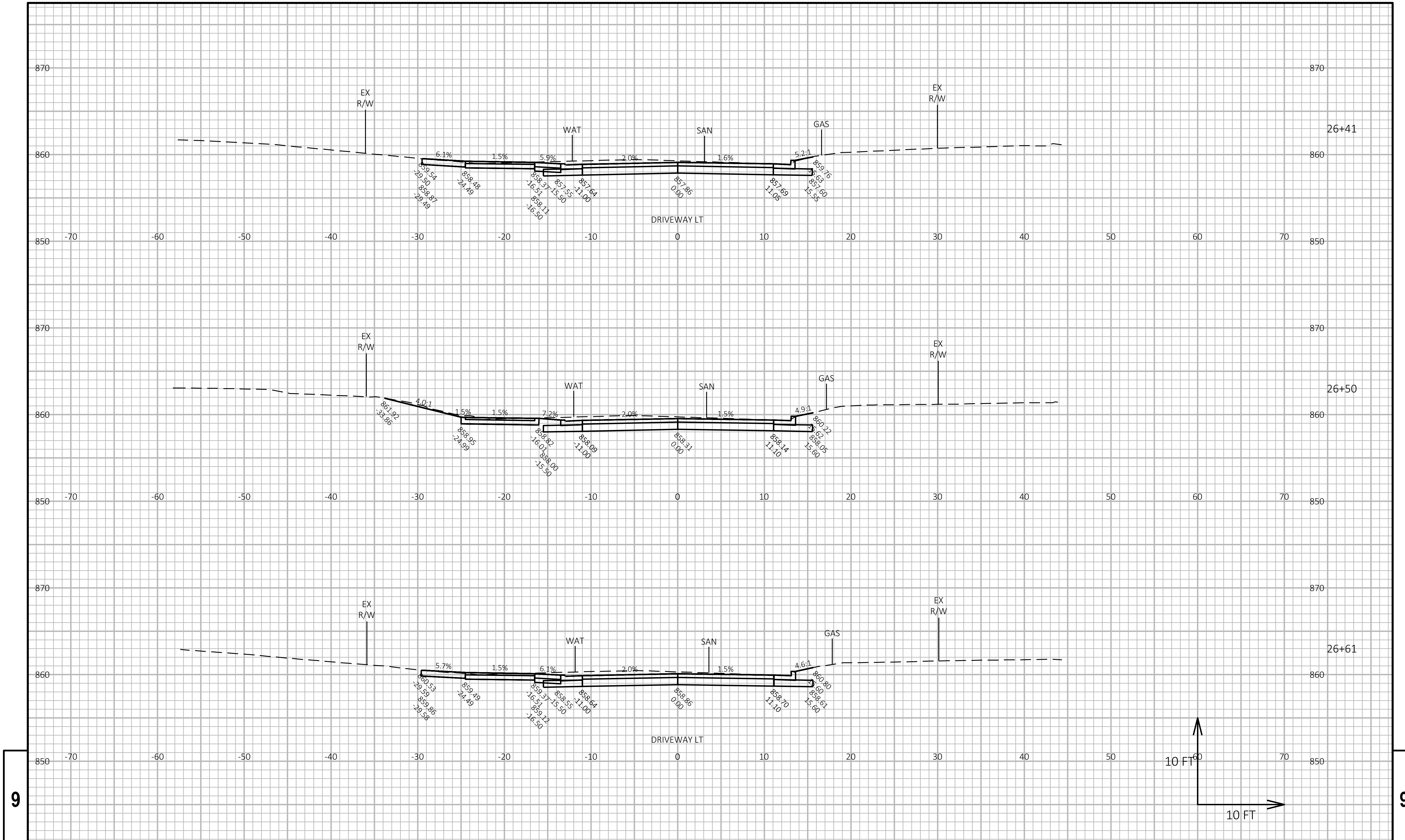


PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 190 E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 26
PLOT DATE : 11/16/2024 8:08 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



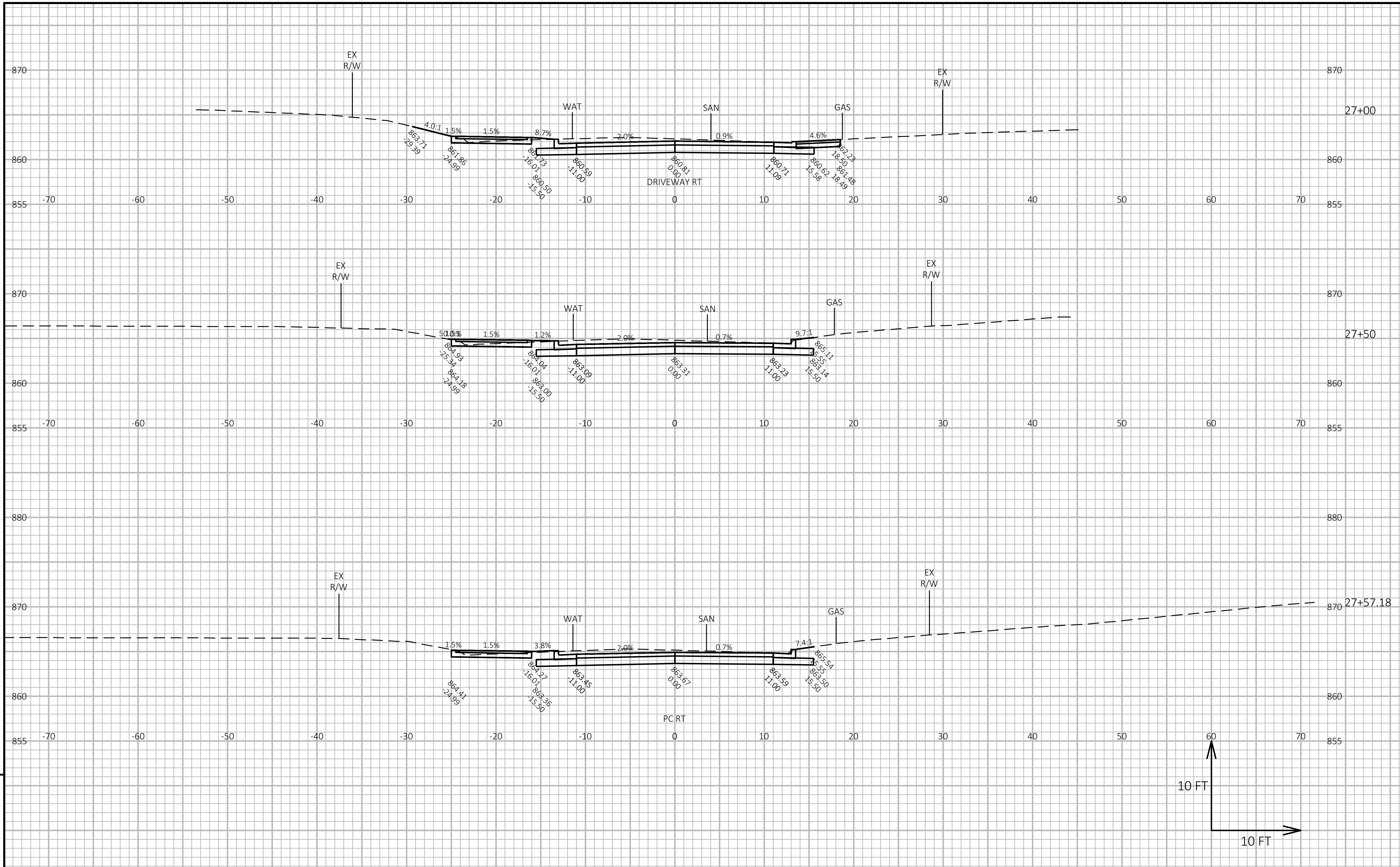
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 191	E



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 192	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 28
PLOT DATE : 11/16/2024 8:08 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

9



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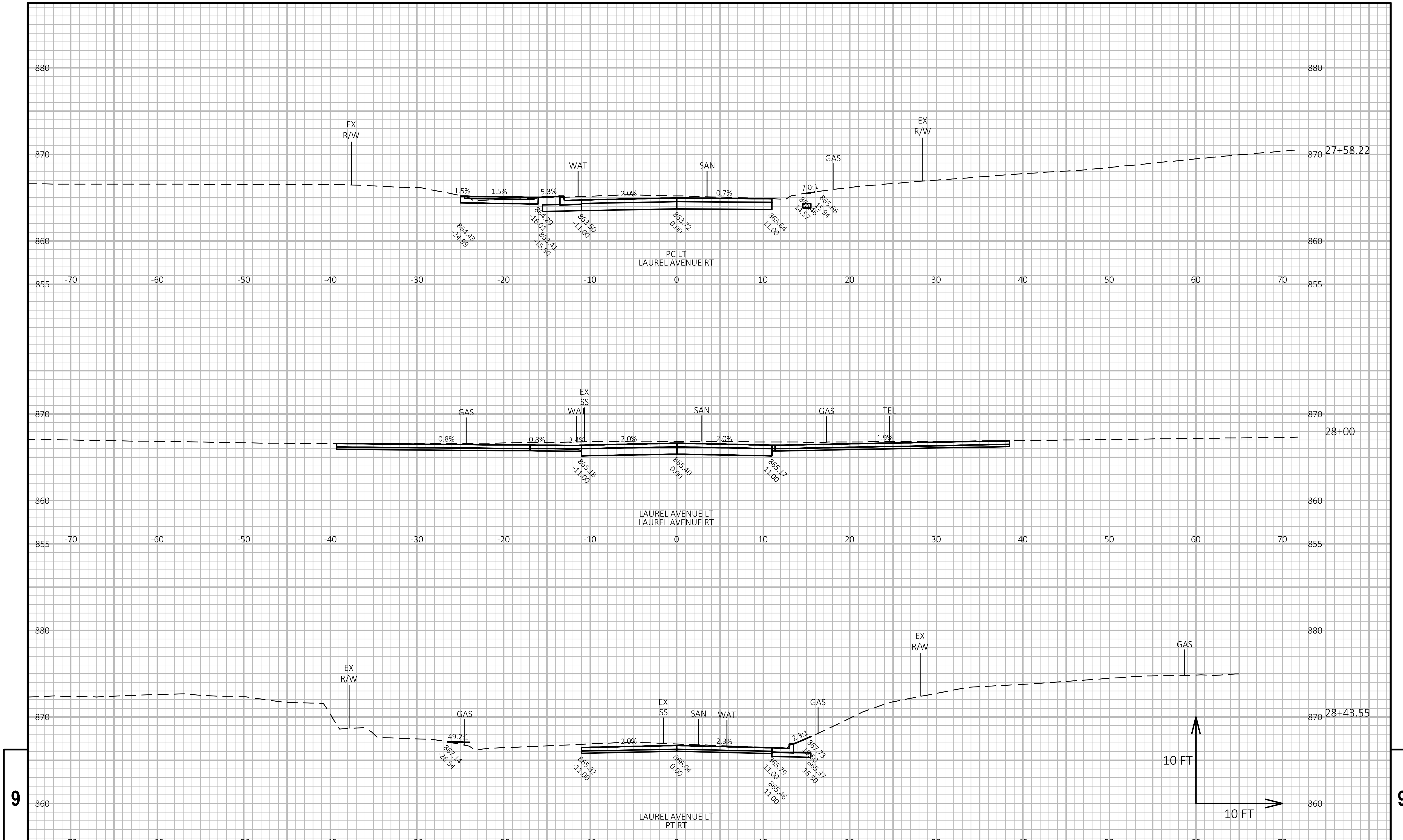
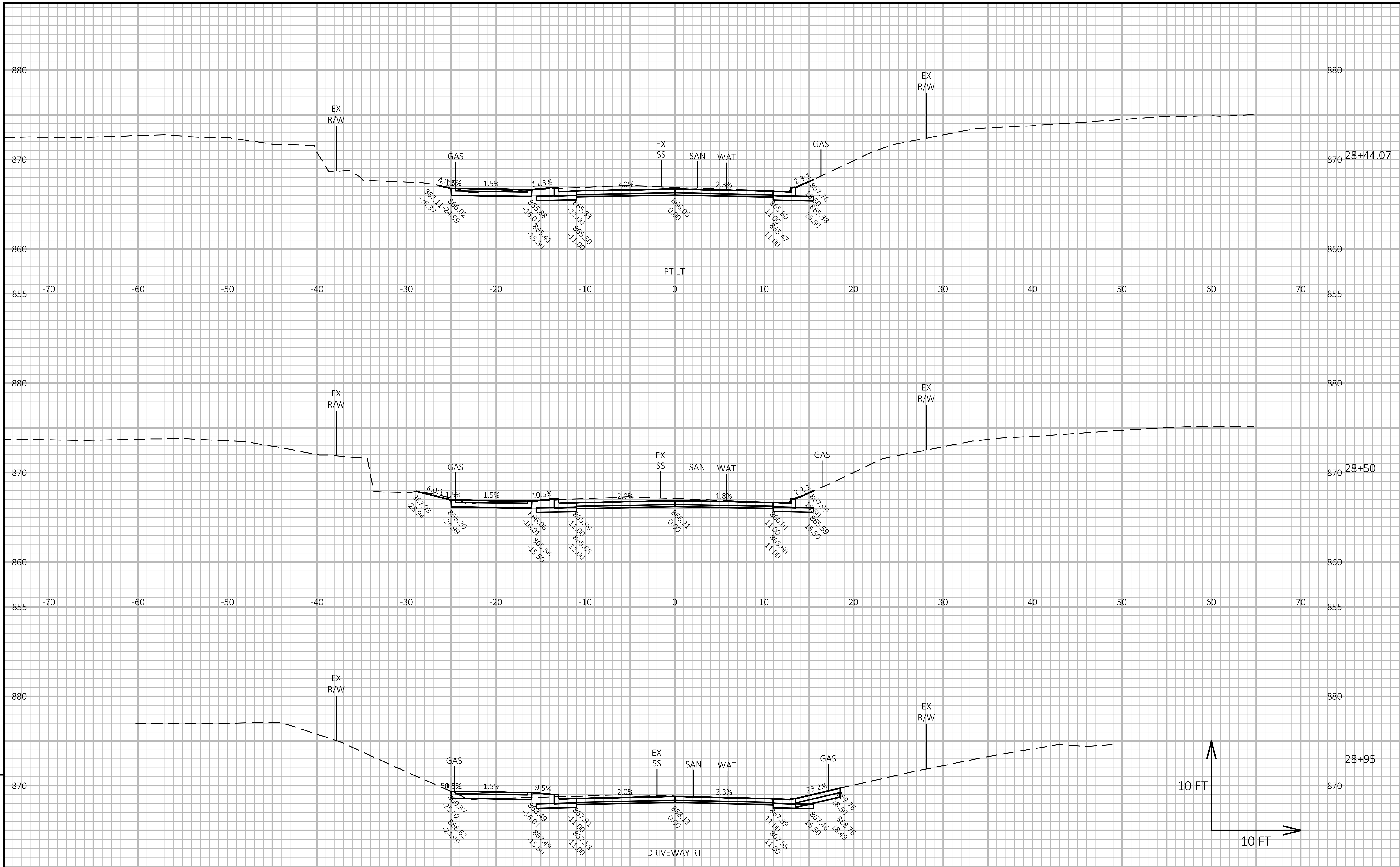
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 193	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 29
PLOT DATE : 11/16/2024 8:08 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 194	E



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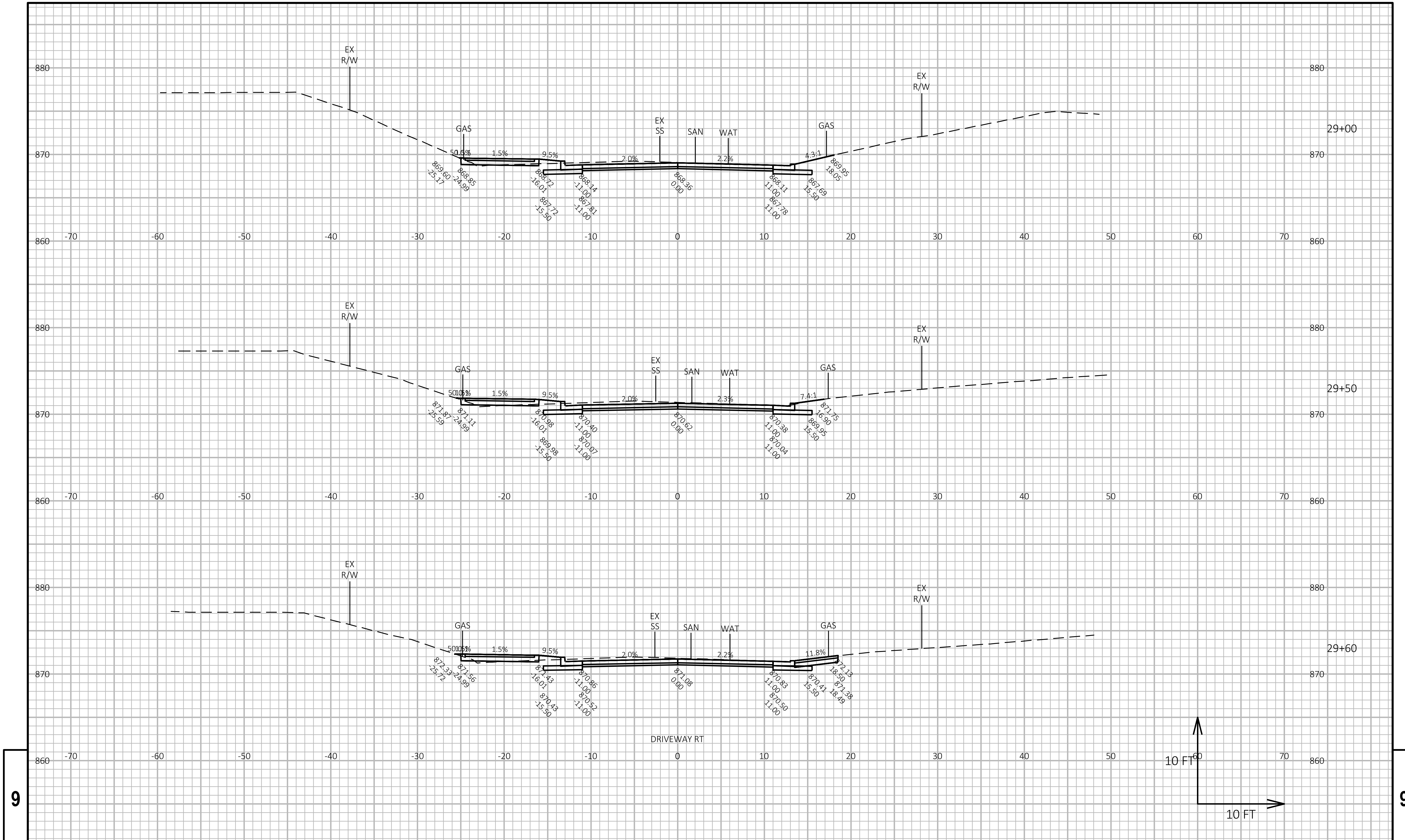
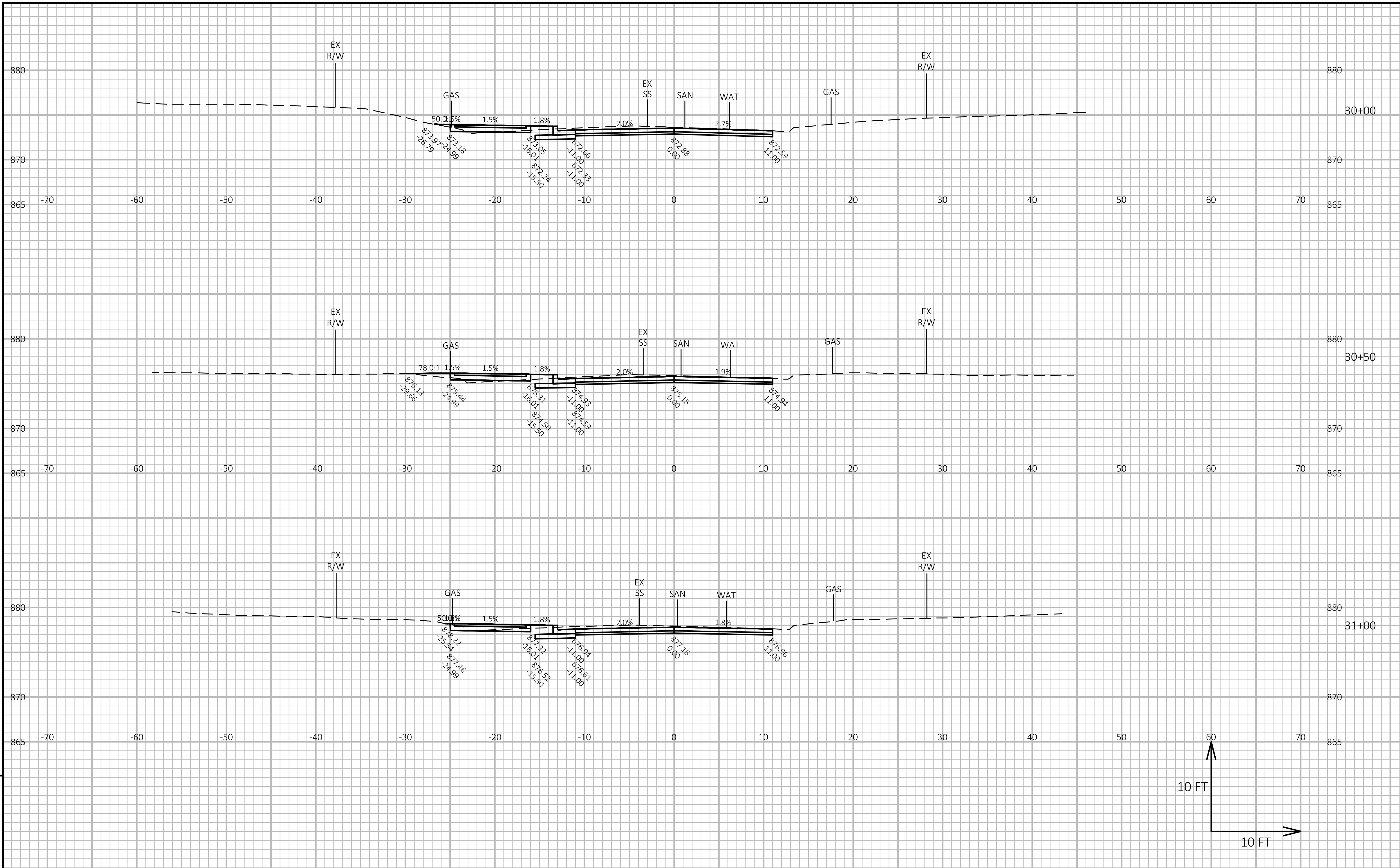
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 195	E



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 196	E



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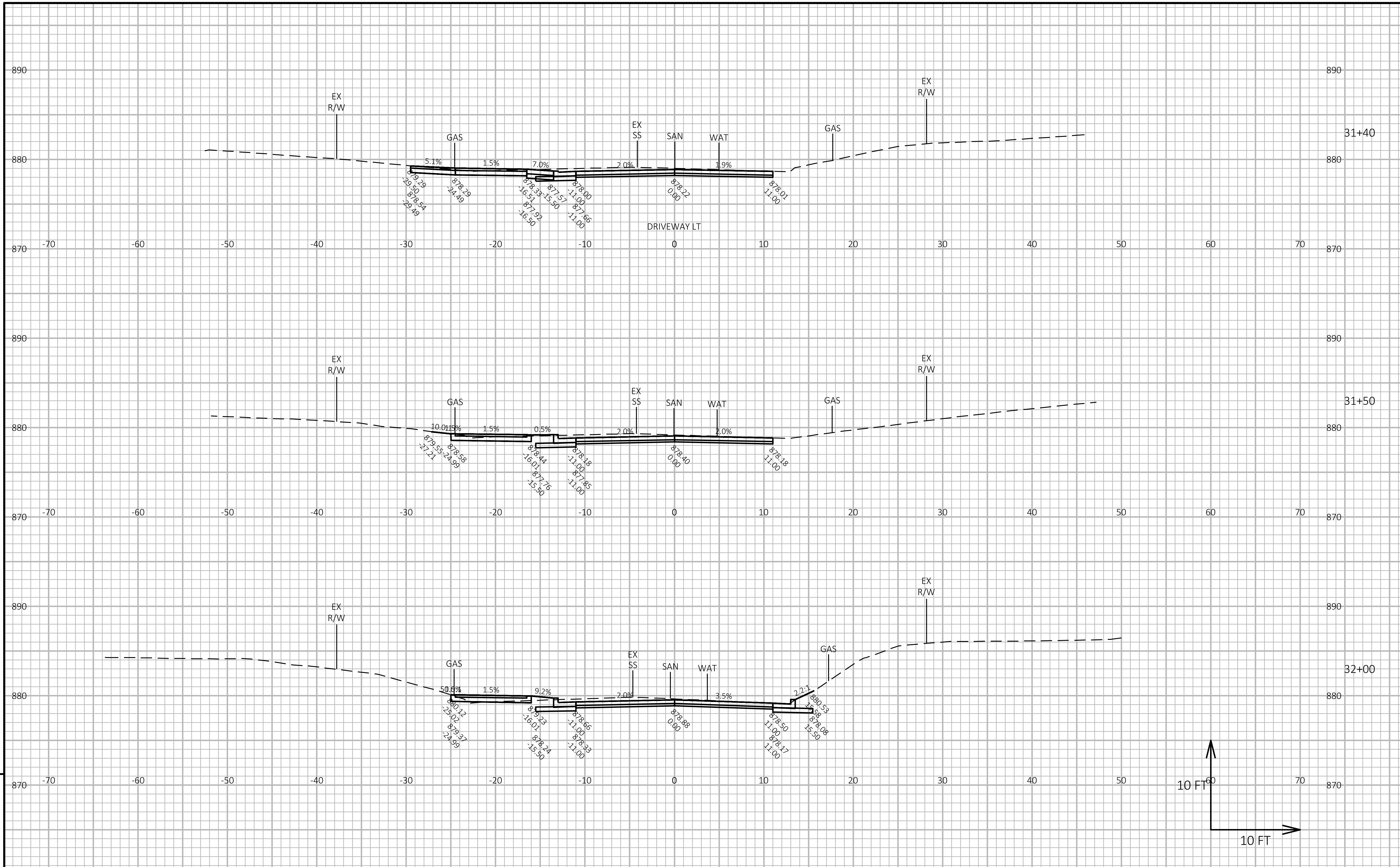
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 197	E



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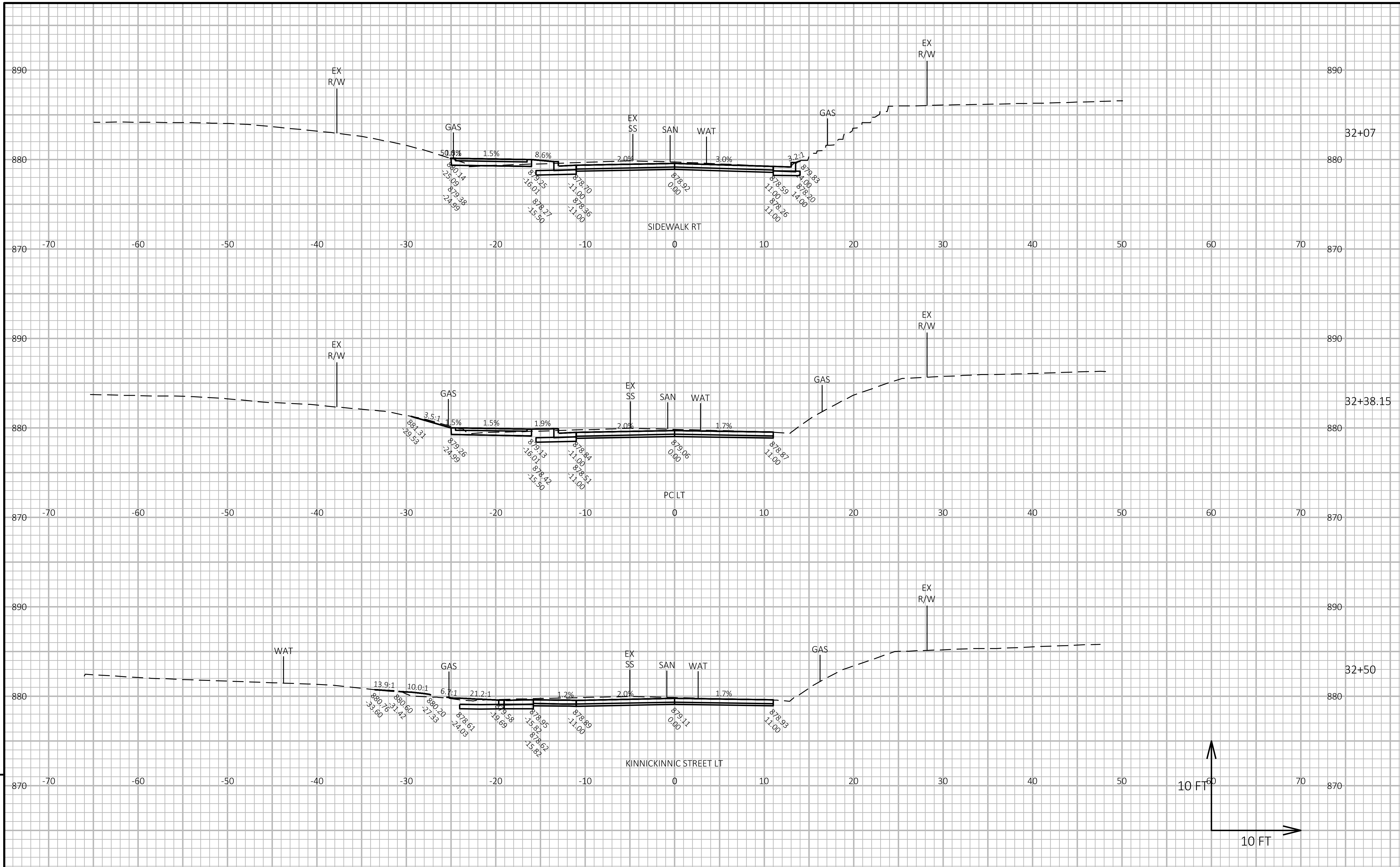
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 198 E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG PLOT DATE : 11/16/2024 8:09 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

LAYOUT NAME - 34

WISDOT/CADDS SHEET 49



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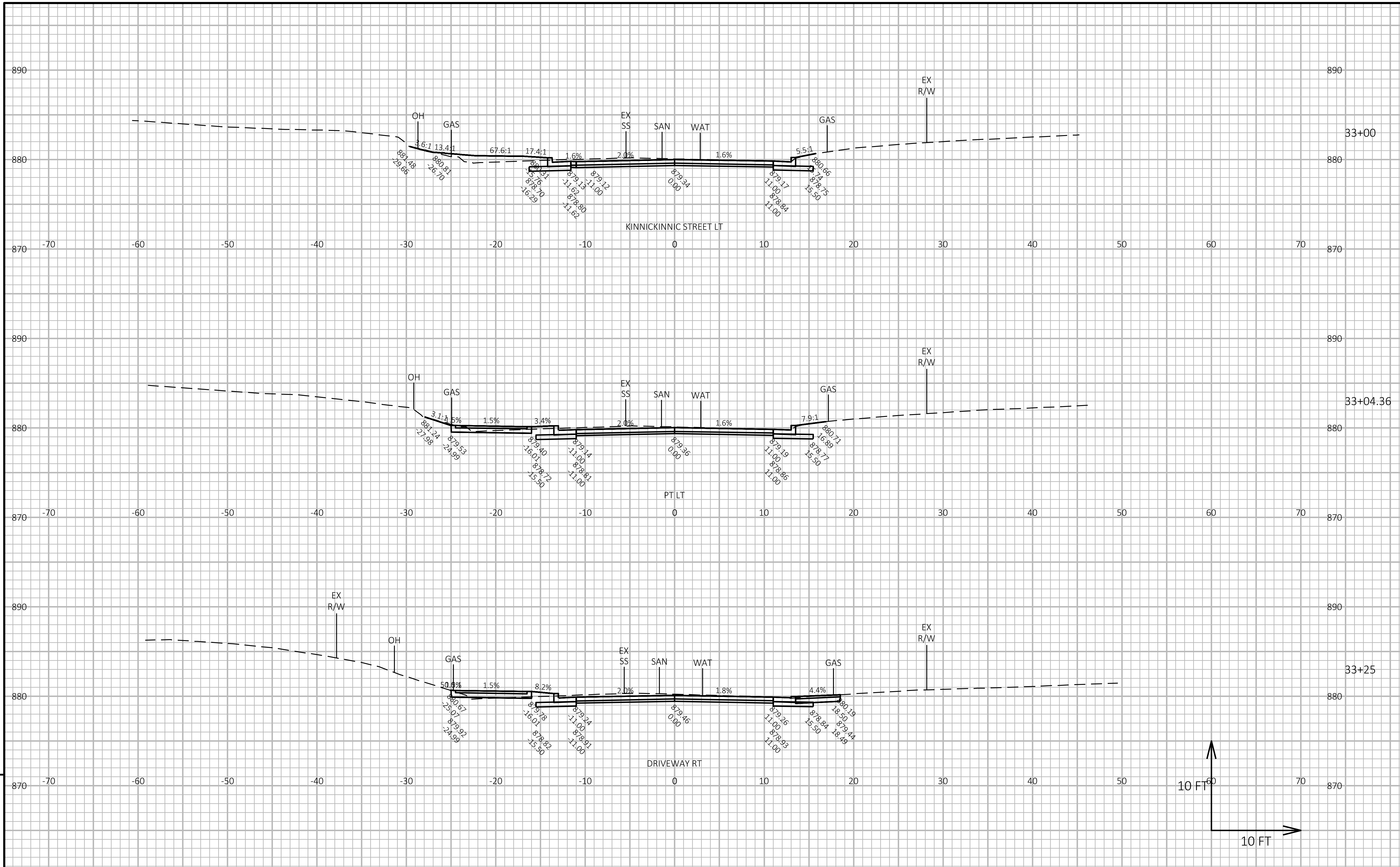
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 199	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 35
PLOT DATE : 11/16/2024 8:09 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

9



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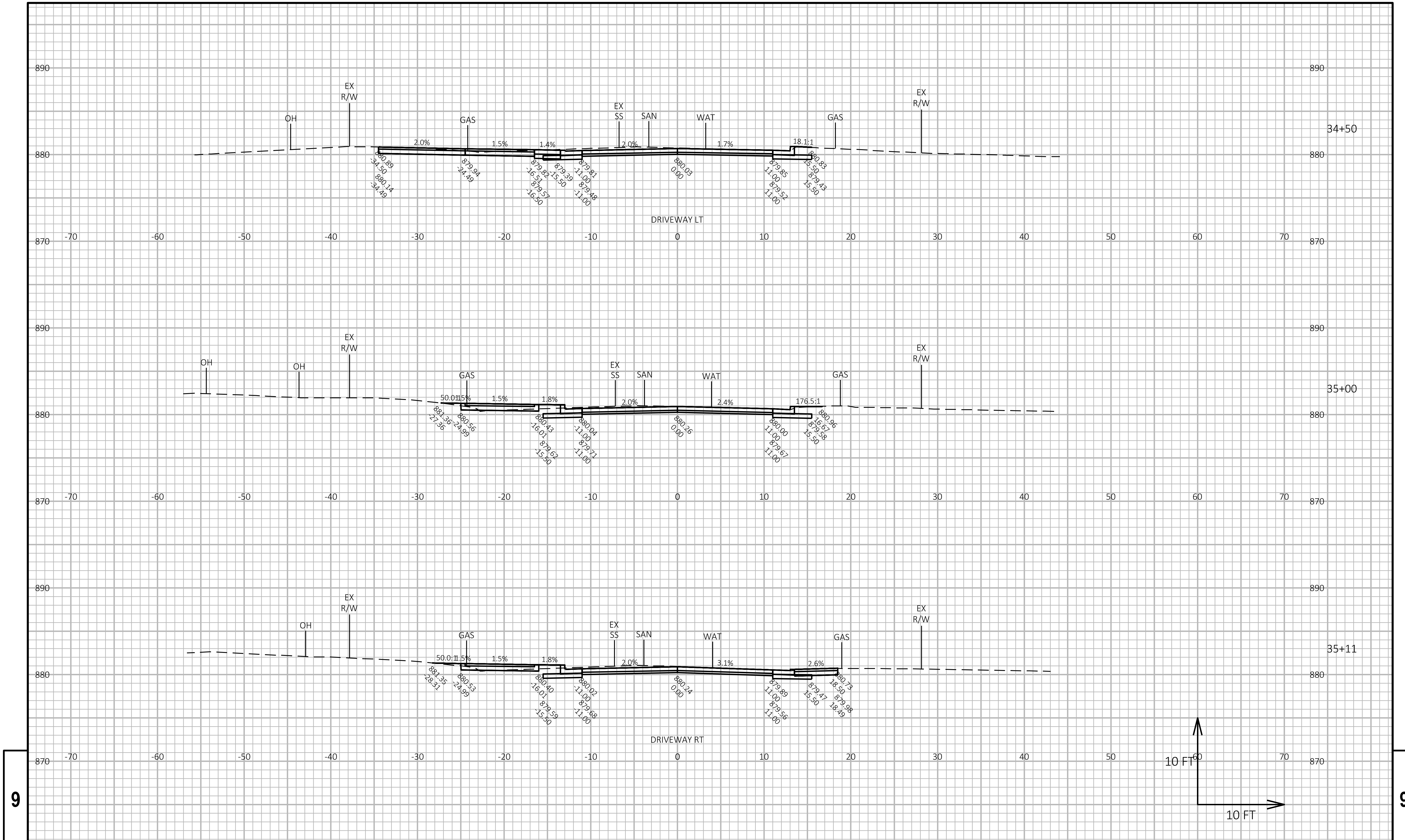
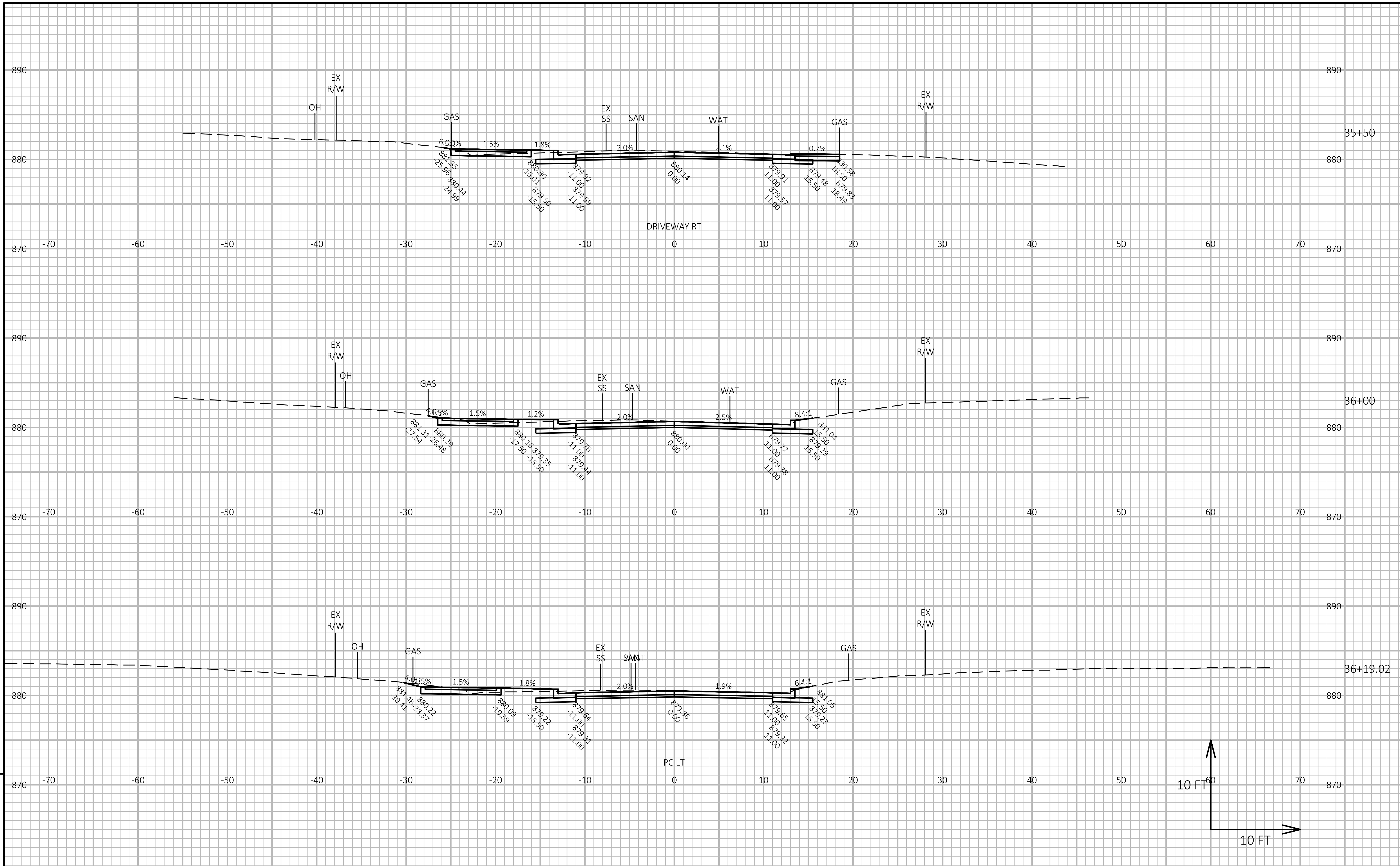
PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 200	E

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 201 E



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 202	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 38
PLOT DATE : 11/16/2024 8:09 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

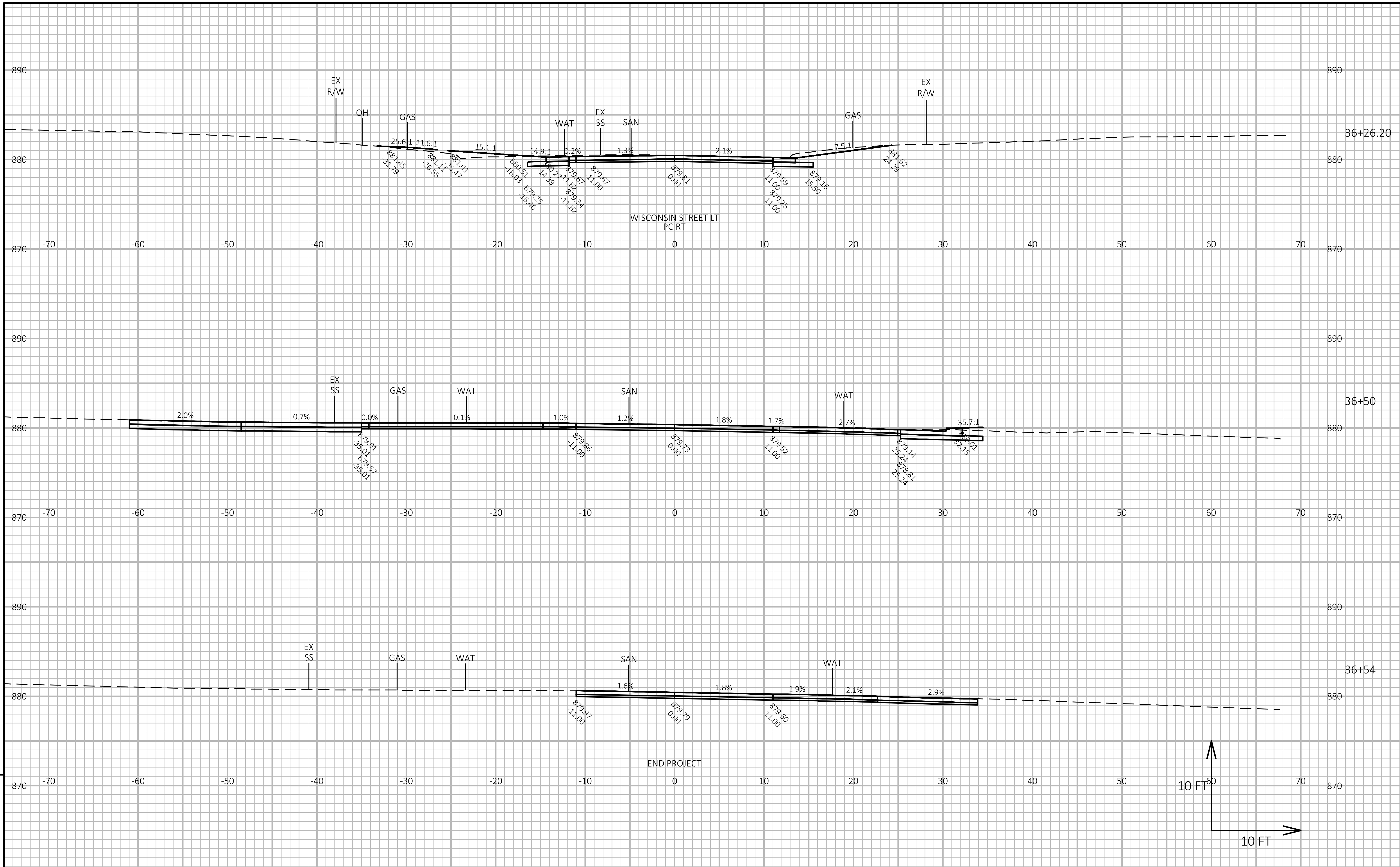


9

9

PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 203	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 39
PLOT DATE : 11/16/2024 8:09 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 8999-00-87	HWY: LOCAL STREET	COUNTY: ST. CROIX	CROSS SECTIONS: 11TH STREET	SHEET 204	E

FILE NAME : G:\08\08814\08814026\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 40
PLOT DATE : 11/16/2024 8:09 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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