# MINUTES OF THE REGULAR MONTHLY BOARD MEETING Haven Township – August 18, 2025

#### CALL TO ORDER

The Haven Town Board met at the Haven Town Hall on Monday, August 18, 2025. The meeting was called to order at 7:00 p.m. by Chairperson Eric Meyer. Members present: Supervisor Eric Meyer, Supervisor Randy Linn, Supervisor Joseph Then, Supervisor Joseph Sexton, Supervisor Kari Watkins, Treasurer Viki Monroe and Clerk Tammy Schefers. There were four people who attended virtually and there were five people who attended in person.

# PLEDGE OF ALLIGIANCE

All present stood and recited the Pledge of Allegiance.

# APPROVAL OF AGENDA

Supervisor Randy Linn made a motion to accept and approve the agenda. Supervisor Joseph Sexton seconded the motion. Role call was taken; Supervisor Eric Meyer – Aye; Supervisor Randy Linn – Aye; Supervisor Joseph Then – Aye; Supervisor Joseph Sexton – Aye; Supervisor Kari Watkins – Aye; the motion carried.

# SHERBURNE COUNTY SHERIFF REPORT

Sergeant Aaron Sturm gave the monthly report. There were 109 incidents for the month of July 2025. The board discussed how the church property has been cleaned-up with the camper. It was mentioned that there were still tarps, wood and things still on the property. There is nothing else that can be done through the township enforcement being the church gave permission for this person to use the property. The board also discussed the chickens and dog argument between neighbors in Elk River Estates. The board discussed too many deer complaint on 27<sup>th</sup> Street SE. Sergeant Sturm talked about how there is an updated Guideline for Off-Road Vehicles in Sherburne County. He will e-mail that to the Clerk so we have it in the file to share with everyone.

# **OPEN FORUM (Time for Residents to Ask the Board Questions)**

None

# **READING OF THE MINUTES**

Supervisor Randy Linn made a motion to approve the July 21, 2025 Board Meeting Minutes; July 28, 2025 Workshop Meeting Minutes; July 30, 2025 Workshop Meeting Minutes with the rest of the consent agenda. Supervisor Kari Watkins seconded the motion. Role call was taken; Supervisor Eric Meyer – Aye; Supervisor Randy Linn – Aye; Supervisor Joseph Then – Aye; Supervisor Joseph Sexton – Aye; Supervisor Kari Watkins – Aye; the motion carried.

# **BUILDING PERMITS**

Just for reference; Sherburne County sends an e-mail report of permits each month to the Clerk for all the Townships. There were seven permits for Haven Township this month.

# **PUBLIC HEARING (Communication that the Board Notified Residents)**None

# **OLD BUSINESS**

**Hansen IUP – Legal Update** – This is still in the legal process. October 9, 2025 will be the next Judge Ruling.

**Clear Lake Maintenance Discussion** – Supervisor Eric Meyer and Supervisor Joseph Then are still working on this.

**Amrize** – The Environmental Impact Statement (EIS) is still in process.

Haven Township Planning Commission Update – Supervisor Kari Watkins spoke to the board about the Haven Township Planning Commission Board and what they had discussed at their meeting on August 12, 2025. The Haven Township Planning Commission Board had discussion on the mining ordinance and Randy Linn and James O'Donnell at that meeting gave a summary of their findings of what they would like to see changed. There was discussion of a mining ordinance workshop no date for that has been set yet and a possible Public Hearing on September 9, 2025 was discussed for the mining ordinance. There were two workshop meetings that had been held one with Sherburne County and the other with Minden Township. There was good discussion at both meetings for Haven Township to consider options and what way they would like to see for future growth in Haven Township.

Ben Oleson made the comment that he is working with K & C Auto/Import Auto Motors for an Interim Use Permit. He also has been working with Wiilo Event Center for an Interim Use Permit. He has been working on the Mining Ordinance and will let the board know when his draft is complete to review.

Northland Reliability Project – Haul Road Route – This company has received a Certificate of Need and a Route Permit from the Minnesota Public Utilities Commission for an electric transmission project consisting of, among other things, an approximately 180-mile double-circuit 345-kV transmission line and associated facilities, which is also known as the Northland Reliability Project, a portion of this is located in Haven Township and will involve transportation, installation and operation of facilities within and adjacent to road rights-of-way that are under the jurisdiction of the township. They are looking to use two of the roads in Elk River Estates Addition; 10<sup>th</sup> Street SE & 60<sup>th</sup> Avenue SE as haul roads. After discussion on this Supervisor Joseph Then made a motion to approve, accept and execute the Haven Township Permit and Road Use Agreement with Northland Reliability Project and that Chairman Supervisor Eric Meyer sign the agreement. The board will also place trail cameras at this location to monitor traffic and trucks using the township roads during this time so they can keep track of what is happening in this area. Supervisor Joseph Sexton seconded the motion. Role call was taken; Supervisor Eric Meyer – Aye; Supervisor Randy Linn – Aye; Supervisor Joseph Then – Aye; Supervisor Joseph Sexton – Aye; Supervisor Kari Watkins – Aye; the motion carried.

#### **NEW BUSINESS**

**Tech Check – Service Agreement** – The board reviewed and went over the Tech Check Managed Services Agreement. The board decided that Tech Check is doing a good job for now with Haven Township needs so they will continue to use their service until the next time the contract is up for renewal.

37<sup>th</sup> Street SE – Dirt Road Dust Control – A resident had concerns about the dust control on 37<sup>th</sup> Street SE. The concern was that there are so many farm trucks going on and off this road and it stirs up the dust. The homeowner was wondering if something could be done when it is so dry like have a water truck spray water or applying calcium chloride to control the dust. The board members discussed this road. It has two homeowners on it and it is a dead end to a private driveway. The township has several dirt roads within the township. After discussion on this the board decided to not spend extra money on this road for dust control. If they did, then they would have to maintain dust control on all of the township dirt roads and that could get to be an added extra expensive cost that has not been budgeted for.

# **BUSINESS FROM THE SUPERVISORS**

# Supervisor (Chairperson) Eric Meyer

Orderly Annexation with the City of St. Cloud – Supervisor Eric Meyer made the comment that he has spoke to the City Planning & Zoning Department and they are willing to attend a workshop with Haven Township to discuss Zoning issues and the Orderly Annexation Agreement with the board members. The Workshop Meeting will be held on September 4, 2025 a Public Notice will be posted in the proper locations.

The board also discussed having an Open House for discussion on Annexation and Zoning Issues for the Entire Township. A postcard will be going out to property owners in Haven Township so they can attend a public information / comment session about annexation and zoning within Haven Township. Dates for this will be September 3, 2025 10:30am-12:00pm; September 10, 2025 6:30pm-8:00pm; September 17, 2025 10:30am-12:00pm & 6:30pm-8:00pm at the Haven Township Hall. All dates & times will include the same information. It will be also on the township website haventwp.org.

AED – The last three AED machines will be installed this fall. The locations will be in Deer Haven; Elk River Estates and on 60<sup>th</sup> Avenue SE. There will be a total of 12 AED machines within Haven Township when completed.

K&C Auto/Import Motors – This is work in progress; they have reached out to Ben Oleson from Hometown Planning and he is helping them.

Teder's Industrial Park Lighting & Traffic – Supervisor Eric Meyer is still working on this project with Sherburne County. He will continue to work with them and proceed with this project to be in the 2026 year for Haven Township. He will remove it now on his list and bring it back for discussion in 2026.

**Supervisor Randy Linn** – Supervisor Randy Linn made the comment that someone has dumped race car tires in the ditches in Prairie Woods Estates. He will clean them up and dispose of them in the proper place.

# **Supervisor Joseph Then** –

6338 45<sup>th</sup> Avenue SE – Culvert & Driveway Approach – Supervisor Joseph Then is working with legal counsel to get a letter sent to this property owner to comply with the culvert in the driveway. Hopefully this will be completed this fall yet.

Township Sign / Mailbox Posts Replacement – Supervisor Joseph Then reported that the resident on the Highway 10 Frontage Road moved his mailbox post and is now in compliance with township standards. There are also signs that are ready for pick-up. He will pick them up and have them ready so the contractor can install them when he gets a chance.

Supervisor Joseph Then talked about the road projects from the past two years. The board had discussion about the bond they took out and the roads that have been completed and upgraded.

Supervisor Joseph Sexton – Supervisor Joseph Sexton talked to the board members about the fire calls and invoicing he has done. His main concern is that when he talks to people and they mention the invoice that was sent to them, the reply is "I pay for that already through my taxes; why am I getting a bill for that?" Supervisor Joseph Sexton then explains why they are billed and some people understand and others state that they will not be calling for help again if they get a bill every time. They talked about false alarms; ditch fires; carbon monoxide detectors; car accidents and lift assist. After board discussion on this, Supervisor Eric Meyer made the comment that Supervisor Joseph Sexton and the Clerk use their best judgment on each call and decide on how it needs to be handled and taken care of.

**Supervisor Kari Watkins** – Supervisor Kari Watkins purchased a laptop so she and the treasurer don't always have to connect to share one computer. It is working well. She has had Tech Check help her connect everything up. There are a few things she is still learning and will hopefully have them figured out soon. She made the comment that she is going to attend the Minnesota Association of Townships meeting that will be held in Cambridge, MN and she will also attend the Sherburne County Soil & Water Conservation Tour.

# TREASURER UPDATE

The Treasurer reviewed the July Cash Control Statement; Receipt Register and Disbursement Register with the Supervisors.

# **CLAIMS LIST FOR APPROVAL**

Supervisor Randy Linn made a motion to accept and approve the claims 25165-2515 totaling \$23,551.74 as presented for the month of August. This motion will also include adding the banking service fees for the end of the month when the statements arrive.

Supervisor Kari Watkins seconded the motion. Role call was taken; Supervisor Eric Meyer – Aye; Supervisor Randy Linn – Aye; Supervisor Joseph Then – Aye; Supervisor Joseph Sexton – Aye; Supervisor Kari Watkins – Aye; the motion carried.

Supervisor Eric Meyer made the comment that he will work with the Treasurer to finalize the ARPA Funds before the end of the year.

# **CLERK UPDATE**

None

# **COMMUNICATIONS**

MN Association of Townships – Online Training / Newsletter Updates / Meetings Sherburne County Planning & Zoning – Public Hearings Sherburne County Association of Township Meeting Agenda Sherburne County Comprehensive Plan Land Use Plan Steering Committee Sherburne County Connect Meeting Agenda Highway 10 Prelim Design - TAC Voice Mails & E-mails from Residents Northland Reliability Project

# **OPEN FORUM (Time for Residents to Ask the Board Questions)**

Tom Schmit – A representative from Amrize spoke to the board members and shared why the name was changed from Holcim to Amrize. He also asked if there will be a workshop on the mining ordinances that they can take part in with the board members. Supervisor Eric Meyer made the comment that yes, if and when there is a workshop about mining ordinances all gravel mining representatives in Haven Township will be informed about the workshop so they can take part in the discussions. He also invited the Haven Township board members, if they are interested, to take a tour of their Elk River facility. He would be more than happy to give a tour of this plant so that the board is aware of how everything will work at the Haven Township site.

# **ADJOURN**

It was moved by Supervisor Kari Watkins seconded by Supervisor Joseph Sexton to adjourn the meeting. Role Call was taken; Supervisor Eric Meyer – Aye; Supervisor Randy Linn – Aye; Supervisor Joseph Then – Aye; Supervisor Joseph Sexton – Aye; Supervisor Kari Watkins – Aye; the motion carried and the meeting was adjourned at 8:29 p.m.

Chairperson	Date
 Clerk	Date

For the Period : 8/1/2025 To 8/31/2025

Name of Fund	<u>Beginning</u> <u>Balance</u>	<u>Total</u> <u>Receipts</u>	<u>Total</u> <u>Disbursed</u>	<u>Ending</u> <u>Balance</u>	<u>Less</u> <u>Deposits</u> <u>In Transit</u>	Plus Outstanding Checks	<u>Total</u> <u>Per Bank</u> <u>Statement</u>
General Fund	\$52,542.27	\$9,107.29	\$18,268.72	\$43,380.84	\$0.00	\$0.00	\$43,380.84
Road Fund	\$468,239.67	\$9,608.78	\$1,692.45	\$476,156.00	\$0.00	\$0.00	\$476,156.00
American Rescue Plan Act (ARPA)	\$47,691.44	\$0.00	\$275.77	\$47,415.67	\$0.00	\$0.00	\$47,415.67
Ehlers Public Finance Advisors (Bond)	\$245,193.60	\$0.00	\$3,324.80	\$241,868.80	\$0.00	\$0.00	\$241,868.80
Fire Fund	\$52,217.26	\$2,077.60	\$0.00	\$54,294.86	\$0.00	\$0.00	\$54,294.86
Total	\$865,884.24	\$20,793.67	\$23,561.74	\$863,116.17	\$0.00	\$0.00	\$863,116.17

9/4/2025

Eric Meyer	Town Supervisor	Date
Joseph A Then	Town Supervisor	Date
Joseph C Sexton	Town Supervisor	Date
Kari M Watkins	Town Supervisor	Date
Randy Linn	Town Supervisor	Date



# **Planning & Zoning Administration**

Sherburne County Government Center
13880 Business Center Drive
Suite 100
Elk River, MN 55330-4668
zoning@co.sherburne.mn.us
(763) 765-4450

1

# NOTICE OF PUBLIC HEARING

The Sherburne County Board of Adjustment will hold a Board of Adjustment Meeting at **6:00 P.M.** on **September 11, 2025** at the Sherburne County Government Center, 13880 Business Center Drive, Elk River, Minnesota to consider the following applications. A hearing will not begin before the time set.

UNEEK DESIGN, BUILD & REMODEL, LLC: (Property Owners: Timothy & Jane Quinlan) Requesting a 30' variance from the centerline of County Road 43 for a new build 4-season off the back of current residence. Required setback from the centerline of County Road 43 is 130'. Address: 18190 County Road 14 NW, Big Lake, Mn Legal: The S 467' of the W 467' . . . (full legal on file) Sec 32, Twp 33, Rge 27 5.01 Acres Big Lake Township Agricultural District.

ELK RIVER LANDFILL / MIKE MILLER: (Property Owner: Elk River Landfill, Inc) Requesting a 16' variance in setback from the rear property line to place equipment associated with a Renewable Natural Gas Facility. Required setback from the rear property line is 50'. Legal: That Pt of SE ¼ of SW ¼ . . . (full legal on file) Sec 34, Twp 34, Rge 26 2.5 Acres Livonia Township Industrial District.

ELK RIVER LANDFILL / MIKE MILLER: (Property Owner: Elk River Landfill, Inc) Requesting a 50' variance in setback from the side property line to place equipment associated with a Renewable Natural Gas Facility. Required setback from the side property line is 50'. Legal: That Pt of SE ½ of SW ½ . . . (full legal on file) Sec 34, Twp 34, Rge 26 2.5 Acres Livonia Township Industrial District.

ROBERT ROUILLARD: Requesting a 48' variance in setback from the centerline of 60<sup>th</sup> St SE (CSAH 16) for an addition on existing house. Required setback from the centerline is 130'. Address: 5948 Haven Rd SE, St Cloud, Mn Legal: That Pt of the NW ¼ of the NE ¼ . . . (full legal on file) Sec 35, Twp 35, Rge 30 1.7 Acres Haven Township Agricultural District.

**MATT BISCHOFF:** Requesting a variance to Subdivision Ordinance, Section 11 – General Regulations, Subdivision 2-H – Ordinance does not allow more than 23 lots on dead end street. Address: 15875 255<sup>th</sup> Ave NW, Big Lake, Mn Legal: SW ¼ of SW ¼ . . . (full legal in file) Sec 14, Twp 34, Rge 27 39.75 Acres Orrock Township General Rural District.

The above hearings are open to you and any interested person, in opposition to or support of the request. The hearing of this request is not limited to those receiving copies of this notice, and if you know of any neighbor or affected property owner who for any reason has not received a copy, it would be appreciated if you would inform them of this hearing.



# KENNEL LICENSE

Sherburne County Planning & Zoning Department 13880 Business Center Drive NW, Suite 100 Elk River, MN 55330

09/04/2025 Date Paid: Receipt No.: 78960 Application Fee: \$150.00 CONTACT: 763-765-4450 zoning@co.sherburne.mn.us

# SHERBURNE COUNTY KENNEL LICENSE NUMBER 25-1511

# LICENSE TO OPERATE A COMMERCIAL DOG KENNEL

ISSUED TO:

**JWT Heavenly Springers** 

LOCATED AT:

5900 75th Ave SE, St Cloud, MN 56304

PHONE NUMBER:

320-493-9222

**EMAIL:** 

twinkelman@frontiernet.net

**PROPERTY** 

WINKELMAN, JOHN & TAMMY

OWNER:

**OVERLAY ZONING DISTRICT:** 

ZONING DISTRICT: Agricultural

**DEEDED ACRES: 5.0** 

SECTION: 36

TOWNSHIP: 35

RANGE: 30

PID:

25-00036-1102

OTHER PARCELS:

THIS IS AN ANNUAL LICENSE AND IS VALID FROM THE DATE ISSUED UNTIL JUNE 1ST OF THE FOLLOWING YEAR

Special Conditions:

Sgt Boler Inspected on 9/4/25

Date Issued:

09/05/2025

(Zoning Official)

# **GUIDELINES FOR OFF-ROAD VEHICLES IN SHERBURNE COUNTY**

	SEE MN DNR C	OFF-HIGHWAY REGULATIONS BOOK	KLET FOR FURTHER DETAILS	
	#1 WHA	T TYPE OF VEHICLE WIL	L I BE OPERATING?	
Class 1	50 inches wide or less (outside rim	to outside rim), at least 3 but no n	nore than 6 tires, dry weight less th	an 2000 lbs.
Class 1 with	50 inches wide or less (outside rim	to outside rim), at least 3 but no n	nore than 6 tires, dry weight less th	an 2000 lbs.
steering wheel	Has steering wheel, roll bar, and so		. , .	
Class 2	50 - 65 inches wide, at least 3 but	no more than 6 tires, dry weight les	ss than 2000 lbs.	
ОНМ	Has 2 wheels with a seat that is str	addled and handlebars for steering	<b>5.</b>	
ORV	Class 1 and Class 2 ATV with tracks	and any other vehicle capable of c	ross-country travel.	
	All recreational v	ehicles must be registered, even w	vhen used on private property.	
		#2 WHERE CAN I D	RIVE?	
	Class 1	Class 1, steering wheel	Class 2	OHM & ORV
City Street	Check Local Ordinance	Check Local Ordinance	Check Local Ordinance	
Township Rd.	On road	On road	On road	1
County Rd.	In ditch**	On road / In ditch**	On road	Only legal on frozen waters
State Hwy.	In ditch**	In ditch**	NO	and private property.
US Hwy.	In ditch**	In ditch**	NO	1
<i>'</i>	** =	Ditch closed to Class 1 ATV's from	April 1-August 1.	
		#3 HOW OLD DO I NEE	<u> </u>	
	Class 1	Class 1, steering wheel	Class 2	ОНМ
Under 10	Only on private property.	Only on private property.	Not allowed	Under age 6 may operate only on private property. Age 6+ OHM Safety Certificate required to operate on frozen waters. Helme and eye protection required.
Age 10 - 11	Must have ATV Safety Certificate and be accompanied by a parent or legal guardian. No road right- of-way operation. May operate on frozen waters. Engine up to 110cc.	Same as Class 1. Engine up to 170cc.	Not allowed	OHM Safety Certificate and helmet/eye protection required to operate on frozen waters.
Age 12 - 15	Must have an ATV Safety Certificate. May cross roads and operate on frozen waters if accompanied by a person 18 years old or older who has a valid driver's license. May operate in the ditch if accompanied by parent or legal guardian on a separate ATV. Only parent or guardian allowed as a passenger.	Same as Class 1.	Under 15 not allowed to operate.  15 year olds must have an ATV Safety Certificate and be accompanied by a legal parent or guardian to operate on road and frozen waters.	OHM Safety Certificate and helmet/eye protection required to operate on frozen waters.
Age 16 - 17	Must have a valid driver's license and ATV Safety Certificate. May operate in the ditch and on frozen waters. May only carry parent or guardian as a passenger.	Must have a valid driver's license and ATV Safety Certificate. May operate in the ditch and on frozen waters. May only carry parent or guardian as a passenger.	Must have a valid driver's license and ATV Safety Certificate to operate on roadway and frozen waters. No passengers.	Helmet and eye protection required to operate on frozen waters.
		OTHER LAWS		
Anyono hora often l	ulu 1 1007 must have an ATV C-f-t-			
•	uly 1, 1987 must have an ATV Safety ge of 18 must wear a DOT approved			

Class 2 ATV's can only carry the number of passengers for which they are designed & seatbelts are required for all ages if the ATV is equipped.

GoKarts, Golf Carts, Mini-Trucks, etc. are not considered ATV's and not legal in the right of way unless local ordinace allows.

Prepared by the Sherburne County Sheriff's Office

Lighted headlight, taillight, and working stop light at all times.

Follow the most restrictive law or ordinance when operating in municipal areas.





# BUILD YOUR AMBITION WI

We Are Amrize

Amrize Q2 Results Al-Optimized
Concrete for
Meta

Build Your
Ambition with
Us

10 Things to Know About Amrize Watch Our NYSE Listing Day Highlights We are building North America. Amrize is the partner of choice for professional builders with advanced branded solutions from foundation to rooftop. Delivering for our customers in every U.S. state and Canadian province, we are ready to build your ambition.

# **Our brands**

01 - 10











# Your North American partner

# **Our businesses**

Our two businesses, Building Materials and Building Envelope, offer advanced branded solutions to cover your construction needs from foundation to rooftop.

See what we deliver









# Building Materials

As your local partner nationwide, we offer high-performance building materials, from cement and aggregates to concrete and asphalt.

Explore Building Materials

# Building Envelope

With the best brands all under one roof, our building envelope solutions cover your needs from commercial and residential roofing to wall systems.

Explore Building Envelope

# OUR ADVANCED SOLUTIONS

We offer a broad range of advanced building solutions from foundation to rooftop to cover your needs from single-family

homes and landmark high-rises to warehouses, highways,

bridges and mars

See Our Solutions

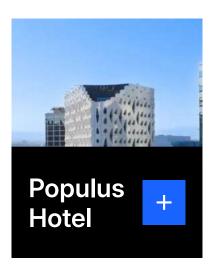
We innovate to make every build:

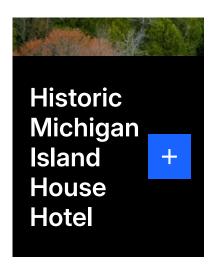
Learn more

# Building your ambition

Across Amrize, we rise to build our customers' greatest ambitions. See how we deliver.







# Our strategy in action



Amrize has played a key role in building North America for over a century. We are a trusted partner for builders, contractors, architects, engineers, public authorities and cities regionwide.



Winthrop Center, Boston, MA

With today's infrastructure modernization, onshoring of manufacturing and housing needs, we are ready to play our part with our advanced branded solutions from foundation to rooftop.

We are here to build your ambition.

See Our Strategy

# Latest news

See all

Amrize
Delivers
Solid Second
Quarter
Results

August 6, 2025

Amrize
Announces
Date for
Second
Quarter
2025
Financial
Results

July 21, 2025

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Amrize and Meta Partner on Al-Optimized Concrete

July 16, 2025

Amrize Rings In New Era: A look back at NYSE listing day—and ahead to what's next

July 7, 2025

Read more Read more

# JOIN OUR TEAM

Our people are our greatest asset. From bridges to data centers, you can make your mark to advance how we build and live.

**Q** Search Careers



**BUILD YOUR AMBITION** 

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							August 2020						
Twp	Parcel Number	Permit Nun [	Date Paid	Permit Type	<b>Explanation of Request</b>	Contractor	Parcel Owner	Phy Addr 1	Parcel City	Parcel Zip Bu	uilding Co F	Project Valuat	Total Fees
BIG LAKE	10-00414-0155	25-1045	4-Aug-25	<b>Building Permit</b>	Deck		RASMUSSEN, HARRY III & JENNIFE	14667 185TH AVE NW	ELK RIVER MN	55330	434	4,000.00	176
BIG LAKE	10-00467-0110	25-1122	6-Aug-25	Septic	Septic	Custom Septic Inc	BJELLOS, T & ADKINS, C	20736 196TH AVE NW	BIG LAKE MN	55309		0	450
BIG LAKE	10-00113-2225	25-1189	4-Aug-25	<b>Building Permit</b>	remodel		ANDERSON, JAYSON LEE JR &JAC	C 15110 212TH AVE NW	ELK RIVER MN	55330	434	10,000.00	327.5
<b>BIG LAKE</b>	10-00481-0220	25-1202	6-Aug-25	<b>Building Permit</b>	Deck		ZENNER, TAMMY & RICKY	22020 169TH ST NW	BIG LAKE MN	55309	434	4,000.00	176
<b>BIG LAKE</b>	10-00436-0130	25-1227	8-Aug-25	Septic	Septic	custom septic	BARRINGER, BENJAMIN	18627 148TH ST NW	ELK RIVER MN	55330		0	450
<b>BIG LAKE</b>	10-00302-4101	25-1229	8-Aug-25	Septic	Septic	Wruck Excavating Inc	Randy Zwilling	22300 Cty Rd 73	Big Lake	55309		0	600
<b>BIG LAKE</b>	10-00116-1100	25-1235	22-Aug-25	<b>Building Permit</b>	Accessory Structure	Load Bearing Wall Compa	n HIRSCH, KELSEY L	16786 211TH AVE NW	BIG LAKE MN	55309	437	5,000.00	206.25
<b>BIG LAKE</b>	10-00578-0125	25-1236	11-Aug-25	<b>Building Permit</b>	New Home with Septic	Ziegler Custom Homes	ZIEGLER CUSTOM HOMES INC	22199 174th Street Northwest	Big Lake	55309	101	247,000.00	4,087.00
<b>BIG LAKE</b>	10-00123-1201	25-1278	14-Aug-25	<b>Building Permit</b>	Deck	Gateway builders	STEPAN, JESSE J	15560 COUNTY ROAD 35 NW	ELK RIVER MN	55330	434	3,000.00	155.75
<b>BIG LAKE</b>	10-00123-3225	25-1284	1-Aug-25	<b>Building Permit</b>	ROOF	Northface Construction	Rosemary Goettl	15910 201st Ave NW	Elk RIver	55330	434	2,000.00	100
<b>BIG LAKE</b>	10-00419-0402	25-1286	4-Aug-25	<b>Building Permit</b>	MINI SPLIT	Sunderland Plumbing, Inc	. KEOGH, SHANE	18999 180TH AVE NW	BIG LAKE MN	55309	434	2,000.00	75
<b>BIG LAKE</b>	10-00336-3400	25-1293	4-Aug-25	<b>Building Permit</b>	ROOFS	Royal Roofing Inc	PETERSON, ARTHUR R LLC - ETAL	20000 COUNTY ROAD 14 NW	BIG LAKE MN	55309	434	2,000.00	100
<b>BIG LAKE</b>	10-00531-0305	25-1298	14-Aug-25	Septic	Septic	C.W.'s Excavating, Inc.	GJERTSEN, MILEY J & SUZANNE R	18055 183RD AVE NW	BIG LAKE MN	55309		0	450
<b>BIG LAKE</b>	10-00435-0340	25-1301	4-Aug-25	<b>Building Permit</b>	WATER SOFTENER	Deans Home Services	NELSON, ALEX & OLSON, HEIDI	18976 149TH ST NW	ELK RIVER MN	55330	434	2,000.00	100
<b>BIG LAKE</b>	10-00429-0340	25-1302	4-Aug-25	<b>Building Permit</b>	ROOF	Tonka Roofing	THOMAS, RYAN	17237 182ND AVE NW	BIG LAKE MN	55309	434	2,000.00	100
<b>BIG LAKE</b>	10-00302-4403	25-1303	4-Aug-25	<b>Building Permit</b>	Gas Mechanical/HVAC	Thelen Plumbing Heating a	a HEMP, MICHAEL D & MALINDA G	20218 221ST AVE NW	BIG LAKE MN	55309	434	2,000.00	75
<b>BIG LAKE</b>	10-00133-1400	25-1304	5-Aug-25	<b>Building Permit</b>	PLUMBING	Deans Home Services	ZIMMERMAN, JERRY & DIANE	17080 COUNTY ROAD 14 NW	ELK RIVER MN	55330	434	2,000.00	100
<b>BIG LAKE</b>	10-00302-4404	25-1311	28-Aug-25	<b>Building Permit</b>	Accessory Dwelling Unit		PETERSON, KEVIN & MICHELLE A	20270 221st Ave NW	BIG LAKE MN	55309	101	128,000.00	2,829.75
<b>BIG LAKE</b>	10-00401-1620	25-1316	13-Aug-25	<b>Building Permit</b>	Accessory Structure		HARREN, JAMES I & BECKY	22802 191ST ST NW	BIG LAKE MN	55309	328	10,000.00	327.5
<b>BIG LAKE</b>	10-00448-0195	25-1321	18-Aug-25	Septic	Septic	Wruck Excavating Inc	TURNER, LISA M & MIKE	16755 203RD AVE NW	BIG LAKE MN	55309		0	450
<b>BIG LAKE</b>	10-00420-0340	25-1327	26-Aug-25	<b>Building Permit</b>	Accessory Structure	Bechtold & Sons Construc	t KOLLES, JULENE M	414 196TH DR NW	ELK RIVER MN	55330	328	8,000.00	282
<b>BIG LAKE</b>	10-00419-0427	25-1330	8-Aug-25	<b>Building Permit</b>	ROOF	All Elements Inc.	LEONARD, MATTHEW P & LACEY E	19357 180TH AVE NW	BIG LAKE MN	55309	434	2,000.00	100
<b>BIG LAKE</b>	10-00419-0427	25-1331	8-Aug-25	<b>Building Permit</b>	SIDING	All Elements Inc.	LEONARD, MATTHEW P & LACEY E	19357 180TH AVE NW	BIG LAKE MN	55309	434	2,000.00	100
<b>BIG LAKE</b>	10-00419-0427	25-1332	8-Aug-25	<b>Building Permit</b>	WINDOWS	All Elements Inc.	LEONARD, MATTHEW P & LACEY E	19357 180TH AVE NW	BIG LAKE MN	55309	434	2,000.00	100
<b>BIG LAKE</b>	10-00123-1412	25-1337	15-Aug-25	Septic	Septic	Rotz Septic	RATZLAFF, BERNETTE L	15336 COUNTY ROAD 35 NW	ELK RIVER MN	55330		0	450
<b>BIG LAKE</b>	10-00114-3200	25-1341	11-Aug-25	<b>Building Permit</b>	WINDOW	Kiser Construction	LATOUR, JEFFREY J & PATRICIA M	20775 COUNTY ROAD 15 NW	ELK RIVER MN	55330	434	2,000.00	100
<b>BIG LAKE</b>	10-00420-0120	25-1350	26-Aug-25	<b>Building Permit</b>	Remodel	Keystone Builders Inc	KAISER, KATIE & TASSI, JOSEPH	582 196TH DR NW	ELK RIVER MN	55330	434	20,000.00	580
<b>BIG LAKE</b>	10-00136-3404	25-1353	14-Aug-25	<b>Building Permit</b>	PATIO DOOR	Renewal By Andersen	KUNTZ, SCOTT A & VICKY M	14858 COUNTY ROAD 30 NW	ELK RIVER MN	55330	434	2,000.00	100
<b>BIG LAKE</b>	10-00467-0210	25-1357	13-Aug-25	<b>Building Permit</b>	WATER SOFTENER/CARB	( Hero Home Services LLC	CARMICHAEL, SEAN & AMBER M	null	BIG LAKE MN	55309	434	2,000.00	100
<b>BIG LAKE</b>	10-00510-0105	25-1359	14-Aug-25	<b>Building Permit</b>	WATER SOFTENER	Deans Home Services	TOTH, LYNETTE J TRUST	19595 COUNTY ROAD 35 NW	ELK RIVER MN	55330	434	2,000.00	100
<b>BIG LAKE</b>	10-00448-0195	25-1360	22-Aug-25	<b>Building Permit</b>	Accessory Structure	Brian Humphrey Const	TURNER, LISA M & MIKE	16755 203RD AVE NW	BIG LAKE MN	55309	437	16,000.00	479
<b>BIG LAKE</b>	10-00485-0145	25-1361	13-Aug-25	<b>Building Permit</b>	Windows	Brian Czech Construction	LTHATCHER, DANYON & MICHELLE	20500 197TH ST NW	BIG LAKE MN	55309	434	2,000.00	100
<b>BIG LAKE</b>	10-00136-3310	25-1363	13-Aug-25	<b>Building Permit</b>	Plumbing	Commers Water Store	WESTHOLTER, PAMELA M	15076 COUNTY ROAD 30 NW	ELK RIVER MN	55330	434	2,000.00	100
<b>BIG LAKE</b>	10-00435-0115	25-1372	14-Aug-25	<b>Building Permit</b>	FURNACE/AC	Monticello Plumbing and I	H ROSADO, MIGDALIA	14898 191ST AVE NW	ELK RIVER MN	55330	434	2,000.00	75
<b>BIG LAKE</b>	10-00438-0135	25-1377	14-Aug-25	Building Permit	SIDING	Bulletproof Builders	AMMERMAN, TERRY M & MARY R	15434 207TH AVE NW	ELK RIVER MN	55330	434	2,000.00	100
BIG LAKE	10-00302-4102	25-1380	15-Aug-25	Building Permit	AC/FURNACE/WATER HE	Larson Plumbing & Heatin	g Michelle Walgren	22410 County RD 73	Big Lake	55309	434	2,000.00	75
BIG LAKE	10-00419-0330	25-1383	15-Aug-25	Building Permit	ROOF	Presidential Construction	I KRUTZIG, MICHAEL & ALISON	18897 180TH AVE NW	BIG LAKE MN	55309	434	2,000.00	100
BIG LAKE	10-00501-0110	25-1384	15-Aug-25	Building Permit	ROOF	Sticks N Bricks Constructi	o WAYTASHEK, ROBERT J & HOLMQ	l 17162 224TH AVE NW	BIG LAKE MN	55309	434	2,000.00	100
BIG LAKE	10-00403-0920	25-1387	18-Aug-25	Building Permit	FURNACE/HEAT PUMP		BRANHAM, FREDERICK W III & BRA	4 22541 159TH ST NW	ELK RIVER MN	55330	434	2,000.00	75
	10-00463-0120	25-1394	_	Building Permit	WINDOWS	Boulder Creek Construction	DI BEDNAR, JOHN T & LISA J	21150 207TH ST NW	BIG LAKE MN	55309	434	2,000.00	100
	10-00418-0250	25-1407	_	Building Permit	FURNACE/HEAT PUMP	Deans Home Services	EDWARDS, KATHLEEN A & JAMES	[ 19793 154TH ST NW	ELK RIVER MN	55330	434	2,000.00	75
	10-00504-0165	25-1410	_	Building Permit	ROOF	Bold North Roofing and Co		19658 227TH AVE NW	BIG LAKE MN	55309	434	2,000.00	100
	10-00418-0250	25-1411	_	Building Permit	WATER SOFTENER	Deans Home Services	EDWARDS, KATHLEEN A & JAMES		ELK RIVER MN	55330	434	2,000.00	100
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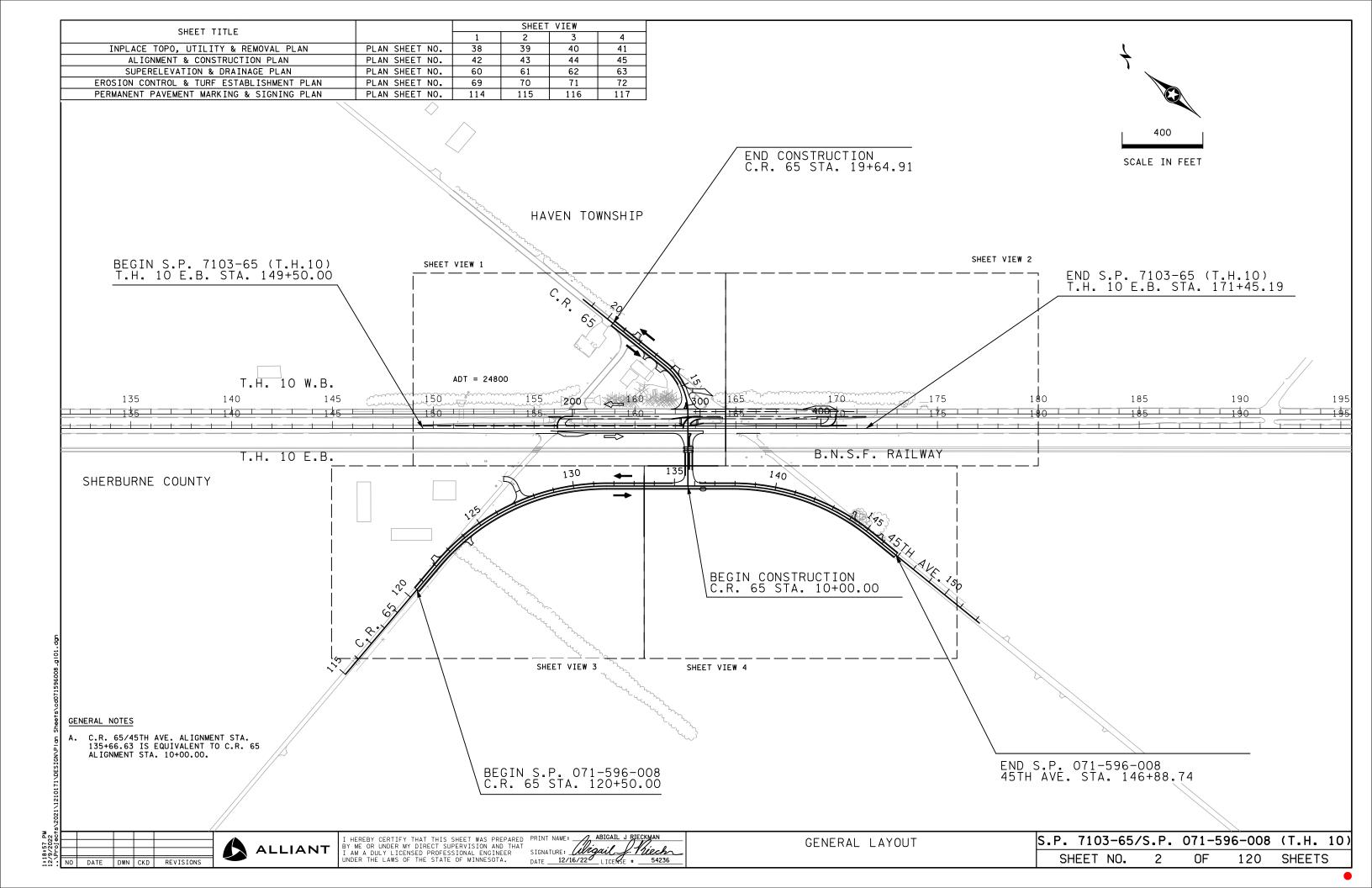
BIG LAKE 10-00001-2205	25-1418	22-Aug-25 Building Permit	ROOF	Throa Divare Domodaling I	LI SMUK, GARRETT & MANCUSO, ELI	E 15045 COLINITY DOAD 20 NIM	ELK RIVER MN	55330	434	2,000.00	100
		•	ROOF	_			ELK RIVER MN				
BIG LAKE 10-00433-0170	25-1421	22-Aug-25 Building Permit		Rival Roofing	MERTEN, MARK M & MARLENE	22464 165TH ST NW		55330	434	2,000.00	104
BIG LAKE 10-00418-0250	25-1423	21-Aug-25 Building Permit	FURNAC/HEAT PUMP	Deans Home Services	EDWARDS, KATHLEEN A & JAMES		ELK RIVER MN	55330	434	2,000.00	75 400
BIG LAKE 10-00447-0110		26-Aug-25 Building Permit	DOORS	Pella Northland	WINGARD, ARTHUR	16393 COUNTY ROAD 14 NW	ELK RIVER MN	55330	434	2,000.00	100
BIG LAKE 10-00402-0120	25-1426	22-Aug-25 Building Permit	ROOF	The Kingdom Builders	LINDQUIST, JAMES & CHRISTIE	19146 146TH ST NW	ELK RIVER MN	55330	434	2,000.00	100
BIG LAKE 10-00483-0240	25-1427	29-Aug-25 Building Permit	FURNACE/AC	•	n KALTHOFF, JOE B & KELLY L	21548 203RD ST NW	BIG LAKE MN	55309	434	2,000.00	75
BIG LAKE 10-00542-0105	25-1429	25-Aug-25 Building Permit	ROOF	Midwest Roofing Siding &		14528 209TH AVE NW	ELK RIVER MN	55330	434	2,000.00	100
BIG LAKE 10-00542-0105	25-1430	25-Aug-25 Building Permit	WINDOWS	Midwest Roofing Siding &		14528 209TH AVE NW	ELK RIVER MN	55330	434	2,000.00	100
BIG LAKE 10-00419-0514	25-1433	25-Aug-25 Building Permit	SIDING		HAUS, NEIL W & TERESE A	19335 181ST AVE NW	BIG LAKE MN	55309	434	2,000.00	100
BIG LAKE 10-00133-2000	25-1445	26-Aug-25 Building Permit	ROOF	Perfect Exteriors of MN	Dave Ziebol	17672 County Rd 14	Big Lake	55309	434	2,000.00	100
BIG LAKE 10-00411-0142	25-1452	28-Aug-25 Building Permit	WATER HEATER/WATER S	(NORTHERN BEN FRANKLI	N YOUNKIN, LISA JEANNE BASS	18896 146TH ST NW	ELK RIVER MN	55330	434	2,000.00	100
BIG LAKE 10-00411-0142	25-1454	28-Aug-25 Building Permit	PLUMBING	NORTHERN BEN FRANKLI	N YOUNKIN, LISA JEANNE BASS	18896 146TH ST NW	ELK RIVER MN	55330	434	2,000.00	100
BIG LAKE 10-00467-0115	25-1456	27-Aug-25 Building Permit	FURNACE/AC	NEIGHBORHOOD PLUMB	INMAROHN, WILLIAM A & KAY	19650 207TH ST NW	BIG LAKE MN	55309	434	2,000.00	75
BIG LAKE 10-00501-0410	25-1457	27-Aug-25 Building Permit	FURNACE/AC	Professional Mechanical S	SERUPPELIUS, JEFFREY & KRISTINA	17213 221ST AVE NW	BIG LAKE MN	55309	434	2,000.00	75
BIG LAKE 10-00496-0145	25-1466	29-Aug-25 Building Permit	WINDOWS	Window Nation LLC	BRUNS, JOSEPH & TERRA	17836 221ST AVE NW	BIG LAKE MN	55309	434	2,000.00	100
BIG LAKE 10-00417-0450	25-1468	28-Aug-25 Building Permit	ROOF	Royale Crown Construction	or HILL, JEFFERY & CHRISTINE	19956 199TH CIR NW	BIG LAKE MN	55309	434	2,000.00	100
BIG LAKE 10-00411-0142	25-1472	28-Aug-25 Septic	SEWER HOOK UP/REPAIR	NORTHERN BEN FRANKLI	N YOUNKIN, LISA JEANNE BASS	18896 146TH ST NW	ELK RIVER MN	55330	434	2,000.00	75
BIG LAKE 10-00458-0105	25-1477	29-Aug-25 Building Permit	GAS LINE	johnson plumbing and hea	at CARLSON, CHRIS & DEBBIE	17929 182ND AVE NW	BIG LAKE MN	55309	434	2,000.00	75
BLUE HILL 15-00009-1300	25-1233	18-Aug-25 Building Permit	Pole Shed		FOSS, JOHN & LARSON, SHADOW	/ 31348 172ND ST NW	PRINCETON MN	55371	328	18,000.00	529.5
BLUE HILL 15-00422-0105	25-1256	8-Aug-25 Septic	Type 1 Pressure Bed	Mark's Sewer Service Inc.	DEWALL, JANA L - TRUSTEE	28474 144TH ST NW	ZIMMERMAN MN	55398		0	450
BLUE HILL 15-00473-0250	25-1272	7-Aug-25 Building Permit	Remodel	Greyrose Custom Builders	BUHL, COREY & MICHELLE	14843 304TH AVE NW	PRINCETON MN	55371	434	15,000.00	585.75
BLUE HILL 15-00450-0110	25-1340	11-Aug-25 Building Permit	Gas Mechanical/HVAC	Vector Services	PENDLETON, GEORGE LEO	28685 149TH ST NW	ZIMMERMAN MN	55398	434	2,000.00	75
BLUE HILL 15-00449-0238	25-1356	13-Aug-25 Building Permit	WATER HEATER	NEIGHBORHOOD PLUMB	INJULIA MORGAN	14749 301ST AVE	PRINCETON	55371	434	2,000.00	100
BLUE HILL 15-00468-0110	25-1373	12-Aug-25 Building Permit	ROOF	Price Property Services Inc	COOLER, HAROLD K & DONNA	15024 309TH AVE NW	PRINCETON MN	55371	434		100
BLUE HILL 15-00431-0120	25-1389	19-Aug-25 Building Permit	FURNACE/HEAT PUMP	Deans Home Services	NEUMANN, SCOTT & HEIDI J	14880 301ST AVE NW	PRINCETON MN	55371	434	2,000.00	75
CLEAR LAK 20-00449-0110	25-1097	5-Aug-25 Building Permit	Pool	Nassau Pools and Spas	DRAACK, WENDI L REVOCABLE T	R 8562 95TH AVE SE	CLEAR LAKE MN	55319	329	0	121
CLEAR LAK 20-00103-1100	25-1209	1-Aug-25 Building Permit	New Home with Septic		BUSSE, ANGELA & BUSSE, TYLER	6938 115TH AVE SE	CLEAR LAKE MN	55319	101	70,000.00	2,112.50
CLEAR LAK 20-00130-3100	25-1276	19-Aug-25 Building Permit	Minnesota Room		Travelers Country Club- Deana Du	ır 11290 80TH AVE SE lot 707	CLEAR LAKE MN	55319	328	8,000.00	277
CLEAR LAK 20-00205-2110	25-1288	6-Aug-25 Building Permit	WINDOWS	Renewal By Andersen	KAMPHENKEL, DAVID N & AUDRE	Y 3003 RIVER RD SE	SAINT CLOUD MI	56304	434	2,000.00	100
CLEAR LAK 20-00130-3100	25-1326	25-Aug-25 Building Permit	Accessory Structure		TRAVELERS COUNTRY CLUB	11290 80TH AVE SE	CLEAR LAKE MN	55319	328	6,000.00	226.5
CLEAR LAK 20-00130-3100	25-1328	6-Aug-25 Building Permit	ROOF		TRAVELERS COUNTRY CLUB	11290 80TH AVE SELOT 907	CLEAR LAKE MN	55319	434		100
CLEAR LAK 20-00405-0110	25-1342	12-Aug-25 Building Permit	PLUMBING	HENDRICKSON & SONS P	L SCHMITT, ELMER J & JANE A -TRUS	S 7679 38TH AVE SE	CLEAR LAKE MN	55319	434	2,000.00	100
CLEAR LAK 20-00130-3100	25-1344	13-Aug-25 Building Permit	Gas Mechanical/HVAC	Dahlen Sheet Metal	TRAVELERS COUNTRY CLUB	11290 80TH AVE SE#208	CLEAR LAKE MN	55319	434	2,000.00	75
CLEAR LAK 20-00129-3000	25-1345	11-Aug-25 Building Permit	ROOF	J Dale Builders Inc	Virginia Peterson	11279 84th Ave SE	Clear Lake	55319	434	2,000.00	100
CLEAR LAK 20-00405-0110	25-1374	26-Aug-25 Septic	Septic	Angela Annette Busse	SCHMITT, ELMER J & JANE A -TRUS	S 7679 38TH AVE SE	CLEAR LAKE MN	55319		0	450
CLEAR LAK 20-00130-3100	25-1382	13-Aug-25 Building Permit	ROOF		TRAVELERS COUNTRY CLUB	11290 80TH AVE SE 117	CLEAR LAKE MN	55319	434		100
CLEAR LAK 20-00452-0105	25-1395	27-Aug-25 Septic	Septic	Elfmann Excavating LLC	ROSTEN, LUCAS & JUSTINE	6455 106TH ST SE	CLEAR LAKE MN	55319		0	452
CLEAR LAK 20-00406-0240	25-1396	19-Aug-25 Building Permit	FURNACE/HEAT PUMP	H&S Heating & A/C	NORDANG, PETER & MARIT	11193 127TH ST SE	CLEAR LAKE MN	55319	434	2,000.00	75
CLEAR LAK 20-00130-3100		18-Aug-25 Building Permit	ROOF	-	TRAVELERS COUNTRY CLUB	11290 80TH AVE SELOT 272	CLEAR LAKE MN	55319	434		100
CLEAR LAK 20-00130-3100		22-Aug-25 Building Permit	ROOF		TRAVELERS COUNTRY CLUB	11290 80TH AVE SELOT 409	CLEAR LAKE MN	55319	434	2,000.00	100
CLEAR LAK 20-00902-0578	25-1465	28-Aug-25 Building Permit	DUCTLESS HP	Dahlen sheet metal	WAYNE GILLEO	11290 80th Ave SE	CLEAR LAKE	55319	434	2,000.00	75
CLEAR LAK 20-00413-0070	25-1467	27-Aug-25 Building Permit	DOOR	Berscheid Builders	HEATH, JOLENE & RICHARD REVO		SAINT CLOUD MI	56304	434	2,000.00	100
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CLEAR LAK	< 20-00403-0110	25-1474	29-Aug-25 Building Permit	WINDOWS	Pro Tech Restoration	SATERBAK, NANCY & TODD	7069 100TH AVE SE	CLEAR LAKE MN	55319	434	2,000.00	100
HAVEN	25-00018-3415	25-1196	4-Aug-25 Building Permit	Reroof	Rival Roofing	MARCH, MICHAELS & SHERYL L	1940 37TH ST SE	SAINT CLOUD MI	56304	434	2,000.00	100
HAVEN	25-00016-4107	25-1220	5-Aug-25 Building Permit	Accessory Structure	Tilvacriooning	POZORSKI, FRANCIS & DAWN	4143 32ND ST SE	SAINT CLOUD MI	56304	328	21,000.00	605.25
HAVEN	25-00402-0140	25-1305	5-Aug-25 Building Permit	SIDING	Lexington Roofing & Remo		3508 COUNTY ROAD 8 SE	SAINT CLOUD MI	56304	434	2,000.00	100
HAVEN	25-00402-0110	25-1325	20-Aug-25 Building Permit	Deck	-	WENNER, THOMAS & SCHULTE-W		SAINT CLOUD MI	56304	434	5,000.00	206.25
HAVEN	25-00017-4101	25-1343	11-Aug-25 Building Permit	PLUMBING		NWARZECKA, SCOTT M & WENDI	3423 32ND ST SE	SAINT CLOUD MI	56304	434	2,000.00	100
HAVEN	25-00113-1111	25-1379	26-Aug-25 Building Permit	Accessory Structure	NEIGHBONNIOOD I EGHBN	MOONEY, HEATHER	2837 14TH AVE SE	SAINT CLOUD MI	56304	328	3,000.00	150.75
HAVEN	25-00416-0280	25-1398	19-Aug-25 Building Permit	ROOF	Legacy Restoration LLC	BISSONETTE, MITCHELL & GRETCH		SAINT CLOUD MI	56304	434	2,000.00	100
HAVEN	25-00416-0165	25-1422	21-Aug-25 Building Permit	ROOF	Lutgen Companies	BAUER, JOSEPH & MARY	2137 49TH ST SE	SAINT CLOUD MI	56304	434	2,000.00	100
10.00	20 00410 0100	20 1422	21 Mag 20 Bulkaling Formit	11001	Latger Companies	Brock, Joseph Taributi	2107 40111 01 02	57.IIVI 020051II	00004	707	2,000.00	100
LIVONIA	30-00402-0144	24-1637	25-Aug-25 Septic	septic	BERRES EXCAVATING	OBERFELD, JON P & ERIN E	25420 98TH ST NW	ZIMMERMAN MN	55398		0	150
LIVONIA	30-00402-0540	25-1177	6-Aug-25 Septic	Septic	Mark's Sewer Service Inc.	SMITH, NATHAN L	9835 256TH AVE NW	ZIMMERMAN MN	55398		0	450
LIVONIA	30-00518-0115	25-1188	11-Aug-25 Septic	Septic	Rotz Septic and Excavating	g KUKER, MATHIAS & TERESA - TRUS	23812 98TH ST NW	ELK RIVER MN	55330		0	450
LIVONIA	30-00021-1305	25-1228	22-Aug-25 Septic	Septic	Lashinski Septic	SAMAHA, MOHAMED M-TRUSTEE	12411 249TH AVE NW	ZIMMERMAN MN	55398			450
LIVONIA	30-00537-0205	25-1245	8-Aug-25 Septic	Septic	Ende Septic Service	BERGLOVE, MEGHAN B	25625 112TH ST NW	ZIMMERMAN MN	55398		0	450
LIVONIA	30-00482-0110	25-1280	1-Aug-25 Building Permit	ROOF	A-Team Construction, Inc	LOM, JOHN & MCCLAIN, KELLY	24045 99TH ST NW	ELK RIVER MN	55330	434	2,000.00	100
LIVONIA	30-00566-0105	25-1283	12-Aug-25 Building Permit	Accessory Structure		NEAL, JONATHAN N & MADISON R	11380 272ND AVE NW	ZIMMERMAN MN	55398	328	3,000.00	150.75
LIVONIA	30-00419-0230	25-1285	15-Aug-25 Building Permit	Accessory Structure		SPRINGMAN, ZACHARY	14327 250TH AVE NW	ZIMMERMAN MN	55398	328	17,000.00	504.25
LIVONIA	30-00440-0225	25-1292	6-Aug-25 Building Permit	4 WINDOWS	Renewal By Andersen	LANASA, DOMINIC I & KERSTYN M	26420 WOODLANDS PKWY NW	ZIMMERMAN MN	55398	434	2,000.00	100
LIVONIA	30-00573-0110	25-1300	27-Aug-25 Building Permit	New Home with septic		DEHN, KEVIN & NIKKI	27569 131st Street Northwest	ZIMMERMAN	55398	101	253,000.00	4,100.00
LIVONIA	30-00018-3300	25-1310	6-Aug-25 Building Permit	WATER HEATER/WATER S	OFTENER	BARBELN, THERESA A	14189 255TH AVE NW	ZIMMERMAN MN	55398	434	2,000.00	100
LIVONIA	30-00533-0385	25-1312	15-Aug-25 Building Permit	Residential Solar	Cedar Creek Energy	DIXON, BJORN D & ESTHER L	24478 140TH CT NW	ZIMMERMAN MN	55398	325	10,000.00	327.5
LIVONIA	30-00533-0715	25-1322	18-Aug-25 Building Permit	Basement remodel	Get It Rite Construction	WILLIAM SHAPIRO	24327 143rd St NW	ZIMMERMAN	55398	434	6,000.00	231.5
LIVONIA	30-00520-0515	25-1333	27-Aug-25 Building Permit	Deck	Myhers Construction	BOSNIC, DON PATICK	26806 117TH ST NW	ZIMMERMAN MN	55398	434	7,000.00	251.75
LIVONIA	30-00007-3400	25-1335	25-Aug-25 Building Permit	Accessory Structure		PETERSDORF, MARY	14080 261ST AVE NW	ZIMMERMAN MN	55398	328	2,000.00	125
LIVONIA	30-00005-3303	25-1339	11-Aug-25 Building Permit	FURNACE	Dean's Home Services	LINDGREN, WAYNE E & JOAN K TRI	l 13580 269TH AVE NW	ZIMMERMAN MN	55398	434	2,000.00	75
LIVONIA	30-00515-0115	25-1346	11-Aug-25 Building Permit	FURNACE/AC	Apex Mechanical Inc.	ORINA, RICHARD O	24740 143RD ST NW	ZIMMERMAN MN	55398	434	2,000.00	75
LIVONIA	30-00010-3301	25-1366	25-Aug-25 Septic	Septic	Mark's Sewer Service Inc.	GULBRANSON, PAMELA LEE	26285 120TH ST NW	ZIMMERMAN MN	55398		0	450
LIVONIA	30-00565-0340	25-1392	20-Aug-25 Building Permit	PATIO DOORS	Renewal By Andersen	HENDERSON, ANNA MARIE	26172 107TH ST NW	ZIMMERMAN MN	55398	434	2,000.00	100
LIVONIA	30-00526-0135	25-1413	20-Aug-25 Building Permit	ROOF	Four Seasons Builders LLC	EBNET, CLAYTON JAMES & JEANNE	25760 103RD ST NW	ZIMMERMAN MN	55398	434	2,000.00	100
LIVONIA	30-00414-0140	25-1415	21-Aug-25 Building Permit	ROOF	Bialka Roofing, LLC	SORENSON, DAVID C & JANICE F	25020 140TH ST NW	ZIMMERMAN MN	55398	434	2,000.00	100
LIVONIA	30-00021-1305	25-1419	21-Aug-25 Building Permit	FURNACE/AC/DUCT WOF	R All Weather Heating & Coo	l YANG, JAY	12411 249TH AVE NW	ZIMMERMAN MN	55398	434	2,000.00	75
LIVONIA	30-00435-0315	25-1420	21-Aug-25 Building Permit	AC	Deans Home Services	ENGLAND, GEORGE & JEAN	26425 WOODLANDS PKWY NW	ZIMMERMAN MN	55398	434	2,000.00	75
LIVONIA	30-00429-0315	25-1442	27-Aug-25 Building Permit	FURNACE/HEAT PUMP	Dean's Home Services	Heidi & Connor O'Connell	25365 139TH ST NW	ZIMMERMAN MN	55398	434	2,000.00	75
LIVONIA	30-00407-0220	25-1464	27-Aug-25 Building Permit	WINDOW	Elk River Exteriors	HILARY, ELMER & IRMA	11310 276TH AVE NW	ZIMMERMAN MN	55398	434	2,000.00	100
LIVONIA	30-00576-0110	25-268	6-Aug-25 Building Permit	new home with septic	Caliber Homes, Inc.	ROBECK, JEREMY A & TRACIE J	11786 237th Avenue Northwest	ELK RIVER MN	55330	101	164,000.00	3,179.25
ORROCK	35-00013-1103	25-1123	14-Aug-25 Building Permit	New Home with Septic	4 square contracting	RUST, TYLER & HAILIE	26011 146TH ST NW	ZIMMERMAN MN	55398	101	299,000.00	4,622.75
ORROCK	35-00492-1030	25-1200	1-Aug-25 Building Permit	New Home with septic	JP Brooks Builders	JP BROOKS INC	23726 185thStreet Northwest	Big Lake	55309	101	257,000.00	2,862.25
ORROCK		25-1201	5-Aug-25 Septic	Septic	Mark's Sewer Service Inc.	LOWE, MARY LOU	17879 237TH AVE NW	BIG LAKE MN	55309	·	0	450
ORROCK		25-1221	1-Aug-25 Building Permit	Residential Solar	Cedar Creek Energy	CROCKETT, TYSON &WILBRANDT,		ZIMMERMAN MN	55398	325	10,000.00	327.5
ORROCK	35-00464-0170	25-1250	13-Aug-25 Building Permit	Deck	Bloods Custom Carpentry		17988 233RD AVE NW	BIG LAKE MN	55309	434	7,000.00	256.75
ORROCK	35-00032-3100	25-1273	11-Aug-25 Septic	Septic	Alley Excavating	Bruce Moey	18067 233rd Ave	Big Lake	55309	.0-7	.,555.55 N	450
5.11100K	30 00002 0100	20 12/0	11 / 145 20 Ochilo	Copilo	, moy Endavating	5.400 i 100 <b>y</b>	1000, 200, 4, 100	219 Earlo	55500		J	400

ORR	OCK	35-00034-1103	25-1291	6-Aug-25 Building Permit	2 PATIO DOORS	Renewal By Andersen	MONTANY FAMILY TRUST	16148 233RD AVE NW	BIG LAKE MN	55309	434	2,000.00	100
ORR	OCK	35-00409-1327	25-1294	4-Aug-25 Building Permit	FURNACE/AC	AIR MECHANICAL	DIXON, BRIAN P	25629 167TH ST NW	BIG LAKE MN	55309	434	2,000.00	75
ORR	OCK	35-00015-4306	25-1323	7-Aug-25 Building Permit	Gas Mechanical/HVAC	Air Express INC	Ahmad Eltawely	25314 164th St NW	Big Lake	55309	434	2,000.00	75
ORR	OCK	35-00414-0240	25-1336	22-Aug-25 Building Permit	Accessory Structure		STROM, CHRISTY	23936 167TH ST NW	BIG LAKE MN	55309	437	40,000.00	986
ORR	OCK	35-00414-0370	25-1348	22-Aug-25 Building Permit	Accessory Structure		ZOUBEK, BENJAMIN	16830 240TH AVE NW	BIG LAKE MN	55309	437	73,000.00	1,487.50
ORR	OCK	35-00454-0210	25-1371	14-Aug-25 Building Permit	PLUMBING	Professional Mechanical S	SPINLER, MARY ANN -TRUSTMAKE	24905 145TH ST NW	ZIMMERMAN MN	55398	434	2,000.00	100
ORR	OCK	35-00408-1040	25-1386	22-Aug-25 Building Permit	FURNACE/AC/DUCT WOF	R United heating ac inc	CONN, JOEL & SARAH BETH - TRUS	§ 16561 253RD AVE NW	BIG LAKE MN	55309	434	2,000.00	75
ORR	OCK	35-00485-0450	25-1391	29-Aug-25 Building Permit	Pole Building		VOLK, TRAVIS & KARI	18559 243RD AVE NW	BIG LAKE MN	55309	328	15,000.00	453.75
ORR	OCK	35-00455-0105	25-1393	19-Aug-25 Building Permit	GAS MECH/HVAC		VANDERSCHAAF, JOE T & MARIA T	14792 262ND AVE NW	ZIMMERMAN MN	55398	434	2,000.00	75
ORR	OCK	35-00445-0110	25-1400	20-Aug-25 Building Permit	ROOF	Quarve Contracting	REED, GARRETT & MEGAN	26052 157TH ST NW	BIG LAKE MN	55309	434	2,000.00	100
ORR	OCK	35-00428-0105	25-1405	20-Aug-25 Building Permit	WINDOW/DOOR	Great Plains Windows and	BRIST, CLAUDE & JUNG JA	23682 183RD ST NW	BIG LAKE MN	55309	434	2,000.00	100
ORR	OCK	35-00019-1303	25-1431	26-Aug-25 Building Permit	WATER SOFTENER	Deans Home Services	MARTY, SCOTT M	24959 188TH ST NW	BIG LAKE MN	55309	434	2,000.00	100
ORR	OCK	35-00457-0140	25-1436	26-Aug-25 Building Permit	FURNACE/AC	NORTHERN ONE HOUR	FENNEMA, GARY & MICHELLE L	26293 150TH ST NW	ZIMMERMAN MN	55398	434	2,000.00	75
ORR	OCK	35-00485-0415	25-1458	27-Aug-25 Building Permit	AC	professional mechanical s	HAMILTON, KERI L & STROUD, GLE	24260 187TH ST NW	BIG LAKE MN	55309	434	2,000.00	75
PALM	1ER	40-00416-0408	25-1110	1-Aug-25 Building Permit	Pole Shed	Structural Buildings	RUITER, SCOTT - TRUSTEE	10624 56TH ST SE	CLEAR LAKE MN	55319	328	12,000.00	378
PALN	1ER	40-00417-0070	25-1131	5-Aug-25 Building Permit	New Home with Septic		HAMM, JENNIFER & BRIAN	11414 49TH ST SE	CLEAR LAKE MN	55319	101	83,000.00	1,916.25
PALM	1ER	40-00406-0159	25-1190	15-Aug-25 Building Permit	Addition	Haus Construction, Inc	NIEMANN, DANA R & MARK D	11149 42ND ST SE	CLEAR LAKE MN	55319	434	22,000.00	630.5
PALN	1ER	40-00425-0260	25-1287	6-Aug-25 Building Permit	WINDOWS	Renewal By Andersen	HESS, STEVEN E & TAMMY	4350 124TH AVE SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00024-2202	25-1289	6-Aug-25 Building Permit	WINDOW	Renewal By Andersen	BOBO-DONELSON, JANICE KAY	12519 37TH ST SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00435-0120	25-1290	6-Aug-25 Building Permit	WINDOWS/DOOR	Renewal By Andersen	DONELSON, JUSTIN B & NICOLE M	13544 133RD AVE SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00003-3400	25-1297	15-Aug-25 Building Permit	Basement Finish/Remode	e J Dale Builders Inc	HOWARD-MONJEAU, KYLE & BRIT	T 1523 110TH AVE SE	SAINT CLOUD MI	56304	434	5,000.00	206.25
PALN	1ER	40-00023-2202	25-1329	18-Aug-25 Building Permit	Accessory Dwelling Unit	B&B Built Inc	GOHMAN, MARK A & KARIE	11655 37th St SE	CLEAR LAKE MN	55319	101	119,000.00	2,770.75
PALN	1ER	40-00006-2308	25-1352	14-Aug-25 Building Permit	PATIO DOOR	Renewal By Andersen	CLARK, DENNIS H & LELA C	1035 75TH AVE SE	SAUK RAPIDS MN	56379	434	2,000.00	100
PALN	1ER	40-00429-0500	25-1354	14-Aug-25 Building Permit	WINDOWS	Renewal By Andersen	BOWLAND, JOHN & SUSAN	2382 121ST AVE SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00458-0040	25-1375	15-Aug-25 Building Permit	ROOF	Moore Construction MN LL	SCHMIESING FAMILY REVOCABLE	5612 115TH AVE SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00014-3400	25-1376	26-Aug-25 Septic	Septic	Angela Annette Busse	COX, SANDRA G	11892 37TH ST SE	CLEAR LAKE MN	55319		0	450
PALN	1ER	40-00408-0370	25-1385	18-Aug-25 Building Permit	SIDING	All Elements Inc.	MORRIS, RICHARD LEE & SHEILA (	11291 42ND ST SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00418-0060	25-1399	26-Aug-25 Septic	Septic	Angela Annette Busse	GOODSELL, JOHN R JR - ETAL	9939 55TH ST SE	CLEAR LAKE MN	55319		0	450
PALN	1ER	40-00413-0310	25-1428	29-Aug-25 Septic	Septic	MJS Dirtworks LLC	WALLACE, LISA M	11539 42nd st se	CLEAR LAKE MN	55319		0	450
PALN	1ER	40-00409-0240	25-1438	27-Aug-25 Building Permit	ROOF	MNSOTA CONSTRUCTION	YOUNGDAHL, TODD & KRISTI	4410 115TH AVE SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00408-0210	25-1439	26-Aug-25 Building Permit	FURNACE/AC	NEIGHBORHOOD PLUMBI	NHENNESSEY, JEREMY W & KRISTI N	∙ null	CLEAR LAKE MN	55319	434	2,000.00	75
PALN	1ER	40-00406-0133	25-1451	27-Aug-25 Building Permit	WATER HEATER	NEIGHBORHOOD PLUMBI	STOUSLAND, BRIAN & LORA	null	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00014-2400	25-1459	27-Aug-25 Building Permit	SIDING		SCHMIDT, STEVEN J	11973 30TH ST SE	CLEAR LAKE MN	55319	434	2,000.00	100
PALN	1ER	40-00437-0115	25-1469	27-Aug-25 Building Permit	ROOF		PAUMEN, CYLE C & JENNIFER M	11942 30TH ST SE	CLEAR LAKE MN	55319	434	2,000.00	100

PLAN SYMBOLS			FED. PROJ. NO. STBG. 7123 (088)
PROPOSED RIGHT OF WAY		MINNESOTA DEPARTMENT OF TRANSPORTATION	GOVERNING SPECIFICATIONS
PERMANENT EASEMENT		CHEDDIED NE COTINEV	THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
CONTROL OF ACCESS LINE		SHERBURNE COUNTY	"STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.
PROPERTY LINE		CONSTRUCTION PLAN FOR GRADING, BITUMINOUS SURFACING, J-TURN, ADA IMPROVEMENTS, AND LIGHTING	ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE MMUTCD, INCLUDING THE LATEST "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
CORPORATE OR CITY LIMITS		LOCATED ON C.R. 65 FROM 1014' SOUTH OF T.H. 10 E.B. TO 584' NORTH OF T.H 10 W.B. 5.3 MILES N.W. OF CLEAR LAKE	TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
RAILROAD			INDEX
RAILROAD RIGHT-OF-WAY LINE	NAME _ =	LOCATED ON T.H. 10 FROM 1313' WEST OF C.R. 65. TO 882' EAST OF C.R. 65.	
DRY RUN	_ >>>>	LOCATED ON 45TH AVE. FROM C.R. 65 TO 1122' SOUTH OF C.R. 65  AGREEMENT NO. 1048575	SHEET NO. DESCRIPTION
DRAIN TILE	_ = SIZE =	LOCATED ON 45TH AVE. FROM C.R. 65 TO 1/22' SOUTH OF C.R. 65 AGREEMENT NO. 1048575 SHERBURNE COUNTY  S.P. 0.71-5.96-0.08 (C.R. 65) S.P. 7103-65 (T.H. 10) SP 7103-65 (TH10 = 003)  GROSS LENGTH 2481.54 FEET 0.470 MILES GROSS LENGTH 2195.19 FEET 0.416 MILES DISTRICT 3	1 TITLE SHEET 2 GENERAL LAYOUT
CULVERT	_ = = = = =	GROSS LENGTH. 2481.54. FEET. 0.470. MILES GROSS LENGTH. 2195.19. FEET. 0.416 MILES DISTRICT 3	3-4 STATEMENT OF ESTIMATED QUANTITIES
DROP INLET	DI	BRIDGES-LENGTHFEETMILES BRIDGES-LENGTHFEETMILES EXCEPTIONS-LENGTHFEETMILES	5 SOILS & CONSTRUCTION NOTES
BARBED WIRE FENCE	- <del>*</del>	NET LENGTH2481.54FEETQ.470MILES NET LENGTH2195.19FEETO.416MILES	AND STANDARD PLATES 6 EARTHWORK TABULATION
CHAIN LINK FENCE	xwx	REF. POINT TO REF. POINT REF. POINT 183+00.125 TO REF. POINT 183+00.541	7-10 TABULATIONS
STONE WALL OR FENCE		NOTE:LENGTH AND DESCRIPTION BASED ON THE C.R.65 ALIGNMENT AND THE NOTE:LENGTH AND DESCRIPTION BASED C.R.65/45TH AVE.ALIGNMENT. ON THE T.H.10 E.B.ALIGNMENT.	11-13 TYPICAL SECTIONS 14-15A, 16-33E, STANDARD PLANS
HEDGE	_ xxxxxxx	Calla 637 43 TH AVE. ALIGNMENT. ON THE Talla TO Lab. ALIGNMENT.	34-34B
RAILROAD CROSSING SIGNALRR CROSSING SIGNAL WITH GATE			35-36 STAGING PLAN
ELECTRIC WARNING SIGN	———— <del>首</del>	BEGIN S.P. 071-596-008  BEGIN S.P. 7103-65 (T.H. 10)	37 ALIGNMENT TABULATIONS 38-41 INPLACE TOPO. UTILITY. & REMOVAL PLAN
SPRINGS	<b>T</b>	C.R. 65 STA. 120+50.00 T.H. 10 E.B. STA. 149+50.00	42-45 ALIGNMENT & CONSTRUCTION PLAN
MARSH		17 32nd S.E. S.E.	46-48 CONSTRUCTION PLAN DETAILS 49-50 PROFILES
TIMBER		TEND CONCEDUATION	51-59 INTERSECTION DETAILS
ORCHARD C	(TIMBER)	END CONSTRUCTION	60-63 SUPERELEVATION & DRAINAGE PLANS
NURSERY C	anomin'	C.R. 65 STA. 19+64.91	64 DRAINAGE PROFILES 65 DRAINAGE TABULATION
TREE - LEAF BEARING	——— ♡ ——— ¥	BEGIN CONSTRUCTION	66 DRAINAGE DETAILS
VAL VE	Š	C P 65 STA 10+00 00	67-68 STORMWATER POLLUTION PREVENTION PLAN
CATCH BASIN	——— r ——— □ CB	END S.P. (103-65 (1.H. 10)	69-72 EROSION CONTROL & TURF ESTABLISHMENT PLAN
FIRE HYDRANT BUILDING (One Story Frame)		C.R. 65 Cable T.H. 10 E.B. STA. 171+45.19	73-94 TRAFFIC CONTROL PLAN
F-FRAME C-CONCRETE S-STONE T-TILE	1-S-F	EST. POP. 10	95-118 PERMANENT PAVEMENT MARKING & SIGNING PLANS
B-BRICK ST-STUCCO		END S.P. 071-596-008	119-120 LIGHTING PLANS
IRON PIPE OR ROD	OR(	→ U U U U U U U U U U U U U U U U U U U	X1 - X27 CROSS SECTIONS SHEETS 102-107,109 HAVE BEEN DELETED
WOODEN HUB		SHERBURNE 27 27 45TH AVE. STA. 146+66.74	THIS PLAN CONTAINS 148 SHEETS
GRAVEL PIT			I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT
BORROW PIT		SCALES	SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
ROCK QUARRY		PLAN	
ITTL ITV CVNDOLC		PROFILE 100' 10' HORIZ. VERT.	PRINT NAME: ABIGAIL . J RIE.CKMAN LICENSE *.54236
UTILITY SYMBOLS  POWER POLE		33 INDEX MAP <u>2640'</u>	Abigail Rieckman  Digitally signed by Abigail Rieckman  DN: ON=Abigail Rieckman, OU=Transportation, OU=MPLS, DC=alliant-inc, DC=com Date: 2025.02.18 14:09:56-06'00'
TELEPHONE/TELEGRAPH POLE	)- )-	GENERAL LAYOUT 400°	SIGNATURE: Date: 2025.02.18 14:09:56-06'00'
ANCHOR	) T	R 30 W	DESIGN SQUAD M. SCHUSTER, N. GRAGE, E. REINART
UTILITY PEDESTAL		DESIGN DESIGNATION FOR: C.R. 65 DESIGN DESIGNATION FOR: T.H. 10	
GAS MAIN WATER MAIN	с ———		Andrew Witter Date: 2025.02.19 12:29:00 -06'00'
CONDUIT		ADT (CURRENT YEAR) 2021 580 ADT (CURRENT YEAR) 2021 24800  WARNING: ADT (FUTURE YEAR) 2041 870 ADT (FUTURE YEAR) 2041 33400  HIGH PRESSURE PIPELINE(S) FUNCTIONAL CLASS COLLECTOR FUNCTIONAL CLASS PRINCIPAL ARTERIAL	RECOMMENDED FOR APPROVAL: SHERBURNE COUNTY ENGINEER
CABLE IN CONDUIT = BURIED TV CABLE	→ TV — → TV-BUR — —	NO. OF TRAFFIC LANES 2 NO. OF TRAFFIC LANES 4 NO. OF PARKING LANES 0 NO. OF PARKING LANES 0	Joseph Dignoto Digitally signed by Joseph Pignato
BURIED RAILROAD WIRES BURIED FIBER OPTIC	— - RR-BUR — - —	SHOULDER WIDTH-RURAL 4' SHOULDER WIDTH 10' R-VALUE 30 R-VALUE 30	Joseph Pignato Date: 2025.03.20 07:14:33 -05'00'
BURIED COMM. CABLE		TON DESIGN 10 TON DESIGN - ESALS 229,000 ESALS - 70	OFFICE OF LAND MANAGEMENT APPROVAL: DIRECTOR, LAND MANAGEMENT
BURIED TELEPHONE CABLE BURIED ELECTRIC CABLE	—— T-BUR——— ——— P-BUR———	DESIGN SPEED (MPH) 55 DESIGN SPEED (MPH) 70 HEAVY COMMERCIAL 14.6% HEAVY COMMERCIAL 10.1%	Tom Styrbicki Date: 2025.03.24 10:44:54 -05'00'
SEWER, (SANITARY) SEWER, (STORM)	-<	BASED ON STOPPING SIGHT DISTANCE  3.5 FT HEIGHT OF EYE  3.5 FT HEIGHT OF EYE  3.5 FT HEIGHT OF EYE	APPROVED: STATE DESIGN ENGINEER
MANHOLE O	_	2.0 FT HEIGHT OF OBJECT  DESIGN SPEED NOT ACHIEVED AT STA.13+81.01  2.0 FT HEIGHT OF OBJECT  2.0 FT HEIGHT OF OBJECT	
HANDHOLE	り 	TO STA. 16+32.42 STOP CONDITION	Andjela Tomovic Date: 2025.02.25 18:15:43 - 06'00'
PLAN REVISIONS DATE SHEET NO		FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL STATE PROJ.NO. CHARGE IDENTIFIER	DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID AND/OR FEDERAL AID RULES/POLICY
Since I No	3,110,121	PROJECT LOCATION 071-596-008	Angela Murphy Digitally signed by Angela Murphy Date: 2025.03.18 10:00:24 -05'00' Date:
		COUNTY: SHERBURNE. 7103-65	STATE AID ENGINEER APPROVED FOR STATE AID AND/OR FEDERAL AID FUNDING
		DISTRICT: 3	·

STATE PROJ. NO. 7103-65 (TH 10 = QQ3 ) S.P. 071-596-008 SHEET NO. 1 OF 120 SHEETS



			STATEMENT OF ESTIMATED QUANTIT	IES		A	В
TAB.	SHEET NO.	ITEM NO.	DESCRIPTION	UNITS	TOTAL ESTIMATED QUANTITY	S.P. 7103-65 (T.H. 10)	S.P. 071-596-008 (C.R. 65)
		2011.601	AS BUILT	LUMP SUM	1	1	
		2021.501	MOBILIZATION	LUMP SUM	1	0.51	0.49
		2031.502	COMBINATION FIELD LABORATORY-OFFICE	EACH	1	0.51	0.49
		2051.501	MAINT AND RESTORATION OF HAUL ROADS	LUMP SUM	1	1	01.15
В	7	2101.502	GRUBBING	EACH	17		17
В	7	2101.505	GRUBBING	ACRE	0.2	0.1	0.1
PM	95	2102.503	PAVEMENT MARKING REMOVAL	LIN FT	7342	7342	
К	65	2104.502	REMOVE PIPE ARPON	EACH	2	2	
ST	95	2104.502	REMOVE SIGN	EACH	52	36	16
ST	95	2104.502	SALVAGE SIGN	EACH	4	1	3
С	7	2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	633	633	
С	7	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	3417	3366	51
K	65	2104.503	REMOVE PIPE CULVERTS	LIN FT	156	156	
E	7	2104.503	REMOVE BARBED WIRE FENCE (2)	LIN FT	318		318
K	65	2104.503	SALVAGE PIPE-ARCH CULVERT	LIN FT	150	150	
D	7	2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	254	254	
D	7	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	12603	10306	2297
Α	6	2106.507	EXCAVATION - COMMON (P)	CU YD	27691	12407	15284
A	6	2106.507	GRANULAR EMBANKMENT (CV) (P)	CU YD	16973	2926	14047
A	6	2106.507	SELECT GRANULAR EMBANKMENT (CV) (P)	CU YD	8025	3463	4562
Ā	6	2106.507	COMMON EMBANKMENT (CV) (P)	CU YD	6050	2940	3110
G	8	2118.609	AGGREGATE SURFACING SPECIAL (3)	TON	1067	650	417
H, I	9	2211.507	AGGREGATE BASE (CV) CLASS 5 (P)	CU YD	3785	1562	2223
Н	9	2232.603	MILLED RUMBLE STRIPS	LIN FT	1315	1315	
Н Н	9	2232.603	MILLED RUMBLE STRIPS (CONCRETE)	LIN FT	202	202	
Н	9	2232.603	MILLED RUMBLE STRIPS - INTERMITTENET	LIN FT	1340	1340	
Н	9	2355.506	BITUMINOUS MATERIAL FOR FOG SEAL	GALLON	144	85	59
G	8	2357.606	BITUMINOUS MATERIAL FOR SHOULDER TACK	GALLON	343	343	
Н	9	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2,C) (1)	TON	1520	482	1039
Н.	9	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (2.C) (1)	TON	1727	669	1058
Н	9	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (4,F) (1)	TON	1060	1060	
L	65	2501.502	15" CAS SAFETY APPON	EACH	6	2	4
L	65	2501.502 2501.502	18" CAS SAFETY APRON	EACH	6	<u> </u>	6
L	65 65	2501.502	21" SPAN CAS SAFETY APRON AND GRATE DESIGN 3128 15" CP PIPE CULVERT	EACH LIN FT	121	37	84
L	65	2501.503	18" CP PIPE CULVERT	LIN FT	167	31	167
L	65	2501.503	22" SPAN RC PIPE-ARCH CULVERT CLASS IIIA	LIN FT	141	141	101
L	65	2501.503	INSTALL RC PIPE-ARCH CULVERT	LIN FT	144	144	
L	65	2506.502	CASTING ASSEMBLY	EACH	2	2	
L	65	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	7.9	7.9	
I	9	2521.518	6" CONCRETE WALK	SQ FT	647	647	
I	9	2521.602	DRILL AND GROUT REINF BAR (EPOXY COATED)	EACH	24	24	
I	9	2521.618	CONCRETE CURB RAMP WALK	SQ FT	339	339	
I	9	2531.503	CONCRETE CURB AND GUTTER DESIGN B424	LIN FT	551	551	
I	9	2531.503	CONCRETE CURB AND GUTTER DESIGN 5524	LIN FT	56	56	
I	9	2531.618	TRUNCATED DOMES	SQ FT	44	44	
E	7	2540.602	MAIL BOX SUPPORT	EACH	3	2	1

- (1) BITUMINOUS MIXTURE COMPUTED AT 113 LBS PER SQ YD INCH OF THICKNESS.
- (2) FENCE HEIGHT IS APPROXIMATELY 4 FEET.
- (3) AGGREGATE SURFACING SPECIAL MATERIAL SHALL BE 100% CRUSHED BITUMINOUS MILLINGS WITH NO VIRGIN AGGREGATES BLENDED IN THE MIXTURE.
- 80% FEDERAL/20% STATE FUNDS (CAPPED). REMAINDER 100% SHERBURNE COUNTY FUNDS.
- B 80% FEDERAL / 20% SHERBURNE COUNTY FUNDS (CAPPED). REMAINDER 100% SHERBURNE COUNTY FUNDS.

ALLIANT

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME:

ABIGAIL J RIECKMAN

SIGNATURE:

Wigail

ABIGAIL J RIECKMAN

DATE 2/18/25

LICENSE \* 54236

STATEMENT OF ESTIMATED QUANTITIES

S.P. 7103-65/S.P. 071-596-008 (T.H. 10)

		_	STATEMENT OF ESTIMATED QUANTIT	IES		A	В
TAB.	SHEET NO.	ITEM NO.	DESCRIPTION	UNITS	TOTAL ESTIMATED QUANTITY	S.P. 7103-65 (T.H. 10)	S.P. 071-596-008 (C.R. 65)
N	119	2545.502	LIGHTING UNIT TYPE 9-40	EACH	5	5	
N	119	2545.502	LIGHT FOUNDATION DESIGN E	EACH	5	5	
N	119	2545.502	SERVICE CABINET - TYPE L1	EACH	1	1	
N	119	2545.502	EQUIPMENT PAD B	EACH	1	1	
N	119	2545.503	2" RIGID STEEL CONDUIT	LIN FT	75	75	
N	119	2545.503	3" NON-METALLIC CONDUIT	LIN FT	276	276	
N	119	2545.503	UNDERGROUND WIRE 1/C 2 AWG	LIN FT	225	225	
N	119	2545.503	DIRECT BURIED LIGHTING CABLE 4/C 4 AWG	LIN FT	1374	1374	
L	65,66	2554.602	GUIDE POST TYPE SPECIAL	EACH	16	6	10
TC	74	2563,601	TRAFFIC CONTROL	LUMP SUM	1	0.51	0.49
TC	74	2563.601	WORKERS PRESENT SPEED LIMIT SYSTEM	LUMP SUM	1	1	1 0.43
- 10		23031001	WORKERS TRESERT STEED EIMIT STOTEM	201111 30111	•	<u> </u>	<del>                                     </del>
ST	95	2564.602	INSTALL SIGN	EACH	4	1	3
ST	95	2564,602	DELINEATOR/ MARKER	EACH	2	2	
ST	95	2564,602	DELINEATOR/ MARKER PANEL	EACH	8	8	
ST	95	2564.618	SIGN	SQ FT	612	522	90
		2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	1	0.5	0.5
		2573.501	EROSION CONTROL SUPERVISOR	LUMP SUM	1	0.5	0.5
J	10	2573.502	CULVERT END CONTROLS	EACH	8	3	5
J	10	2573.503	SILT FENCE, TYPE MS	LIN FT	5096	2716	2380
J	10	2574.505	SUBSOILING	ACRE	9	4	5
J	10	2574.505	SOIL BED PREPARATION	ACRE	9	4	5
J	10	2574.508	FERTILIZER TYPE 3	POUND	3045	1295	1750
- 1	10	2575.504	ROLLED EROSION PREVENTION CATEGORY 25	SQ YD	8174	4353	3821
J	10	2575.505	SEEDING	ACRE	9	4333	5
J	10	2575.505	MOWING	ACRE	17	7	10
J	10	2575.505	WEED SPRAYING	ACRE	5	2	3
J	10	2575.506	WEED SPRAY MIXTURE	GALLON	2.5	1	1.5
J	10	2575,509	MULCH MATERIAL TYPE 1	TON	14	5	9
J	10	2575.608	SEED SANDY INSLOPE	POUND	581	244	337
PM	95	2582.503	MOBILE RETROREFLECTOMETER MEASUREMENTS	LIN FT	36800	23400	13400
PM	95	2582.503	6" SOLID LINE MULTI-COMPONENT	LIN FT	2185	1	2185
PM PM	95 95	2582.503	24" SOLID LINE MULTI-COMPONENT	LIN FT	11	11	117
		2582.503 2582.503	4" BROKEN LINE MULTI-COMPONENT 4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	113		113
PM PM	95 95	2582.503	6" SOLID LINE MULTI-COMPONENT GROUND IN	LIN FT	500 4853	1996	500 2957
PM	95	2582.503	24" SOLID LINE MULTI-COMPONENT GROUND IN	LIN FT LIN FT	11	1896	2951
PM	95	2582.503	4" BROKEN LINE MULTI-COMPONENT GROUND IN	LIN FT	196	11	196
PM	95	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT GROUND IN	LIN FT	1053	551	502
PM	95	2582.503	6" SOLID LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	8798	8798	1 302
PM	95	2582.503	6" BROKEN LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	460	460	
PM	95	2582.503	4" DOTTED LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	64	64	<u> </u>
PM	95	2582.503	6" SOLID LINE MULTI-COMPONENT GROUND IN (WR) CONTRAST	LIN FT	1266	1266	
РМ	95	2582.503	6" BROKEN LINE MULTI-COMPONENT GROUND IN (WR) CONTRAST	LIN FT	316	316	
PM	95	2582.503	4" DOTTED LINE MULTI-COMPONENT GROUND IN (WR) CONTRAST	LIN FT	120	120	
PM	95	2582.503	24" SOLID LINE PREFORM THERMO GROUND IN	LIN FT	112	112	
PM	95	2582.518	PAVEMENT MESSAGE PREFORM THERMOPLASTIC GROUND IN	SQ FT	418	418	
PM	95	2582.601	WET RETROREFLECTOMETER MEASUREMENTS	LUMP SUM	1	1	
. 141		25521661	TEL REMORE EEG OMETER MEROONEMENTO	1 20111 3014	· · ·	1 *	

80% FEDERAL/20% STATE FUNDS (CAPPED). REMAINDER 100% SHERBURNE COUNTY FUNDS.

B 80% FEDERAL / 20% SHERBURNE COUNTY FUNDS (CAPPED). REMAINDER 100% SHERBURNE COUNTY FUNDS.

ALLIANT

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: ABIGAIL J RIECKMAN
SIGNATURE: Wight STATE 1 STATE OF MINNESOTA.

ABIGAIL J RIECKMAN
DATE 2/18/25 LICENSE # 54236

STATEMENT OF ESTIMATED QUANTITIES

# SOILS AND CONSTRUCTION NOTES

- 1. MATERIAL STOCKPILES ARE NOT ALLOWED ON THE NEW ROADBED OR ANY ROAD SURFACES.
- 2. EXISTING INPLACE ROADWAY STRUCTURE MATERIALS INCLUDING BITUMINOUS, CONCRETE, AGGREGATE BASE, AND ANY GRADING MATERIAL DISTURBED BY CONSTRUCTION MAY BE RECYCLED AND REUSED, TO THE EXTENT ALLOWED BY MNDOT SPECIFICATIONS AND SPECIAL PROVISIONS. ANY MATERIAL DISTURBED BY CONSTRUCTION THAT IS NOT USED ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE OF THE RIGHT-OF-WAY IN ACCORDANCE WITH MNDOT SPEC. 2104.3.D.3. AS AGREED UPON BY THE ENGINEER.
- 3. IN ANY PROPOSED WIDENING CONSTRUCTION ADJACENT TO AND PARALLEL TO INPLACE EMBANKMENT MATERIAL, CUT VERTICALLY TO THE BOTTOM OF THE INPLACE AGGREGATE BASE (OR TO THE BOTTOM OF THE NEW AGGREGATE BASE, WHICHEVER IS DEEPER), THEN AT A 1:1 (V:H) TAPER TO THE BOTTOM OF THE PROPOSED PAVEMENT SECTION SUBCUT.
- 4. BITUMINOUS TACK COAT IS INCIDENTAL .
- 5. ANY TEMPORARY ROADS BUILT TO FACILITATE CONSTRUCTION, INCLUDING REMOVAL OF TEMPORARY ROADS AND TURF ESTABLISHMENT, SHALL BE INCIDENTAL. CONTRACTOR SHALL SUBSOIL TO REMOVE COMPACTION AFTER REMOVAL OF TEMPORARY ROADS, PRIOR TO PLACEMENT OF TOPSOIL (INCIDENTAL). TEMPORARY ROADS SHALL COMPLY WITH ALL REQUIREMENTS OF THE REGULATORY AGENCIES (THE ARMY CORPS OF ENGINEERS, DNR, MPCA, ETC.)
- 6. THE CONTRACTOR'S ACTIVITIES MUST NOT EXCEED CONSTRUCTION LIMITS IN ENVIRONMENTALLY SENSITIVE AREAS. THIS INCLUDES EQUIPMENT, WORKING, PLACING, OR STOCKPILING MATERIALS, OR IMPACTING THE ENVIRONMENTALLY SENSITIVE AREAS IN ANY OTHER WAY.
- 7. WHEN REMOVING PAVEMENT, FULL-DEPTH SAWCUTS SHOULD BE MADE PERPENDICULAR TO THE ROADWAY CENTERLINE AND ALONG EXISTING JOINT LINES, WHEN POSSIBLE.
- 8. MATERIAL USED TO CONSTRUCT THE EMBANKMENT, OTHER THAN THAT SPECIFIED AS GRANULAR, SHOULD SUBSTANTIALLY MATCH THE INPLACE EMBANKMENT MATERIALS RELATIVE TO TEXTURAL CLASSIFICATIONS, DENSITY, AND MOISTURE CONTENT.
- 9. EROSION CONTROL SUPERVISOR IS REQUIRED FOR THE PROJECT.
- 10. ALL PROPOSED LAYERS OF AGGREGATE BASE (CV) CLASS 5, SELECT GRANULAR EMBANKMENT (CV), AND GRANULAR EMBANKMENT (CV) SHALL BE DAYLIGHTED TO THE PROPOSED INSLOPE.
- 11. PRIOR TO EMBANKMENT CONSTRUCTION OR SUBCUTTING, STRIP ALL INPLACE TOPSOIL AND SLOPE DRESSING MATERIALS WITHIN THE ROAD CORE (EXCAVATION- COMMON) AND REUSE AS TOPSOIL AND NON-STRUCTURAL GRADING MATERIAL (COMMON EMBANKMENT (CV)).
- 12. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO LOCAL RESIDENCES AND BUSINESSES AT ALL TIMES. COSTS ASSOCIATED WITH PROVIDING ACCESS ARE INCIDENTAL.
- 13. WHERE MATCHING TO INPLACE ROADWAYS AT THE TERMINI OF PROPOSED NEW CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE EXISTING AGGREGATE BASE OR TO THE BOTTOM OF THE NEW AGGREGATE BASE, WHICHEVER IS DEEPER, THEN TAPER AT 1:20 (V:H) TO THE BOTTOM OF THE RECOMMENDED GRANULAR EMBANKMENT AT THAT LOCATION.
- 14. PRIOR TO ANY BITUMINOUS SURFACING, A BITUMINOUS TACK COAT WILL BE APPLIED TO EXISTING BITUMINOUS SURFACES, BETWEEN ALL BITUMINOUS LIFTS, AND AT ALL EDGES WHERE CONCRETE AND BITUMINOUS MEET IN ACCORDANCE WITH MNDOT SPECIFICATION 2357 (INCIDENTAL).
- 15. NON-STRUCTURAL GRADING MATERIALS, PER MNDOT SPECIFICATION 2106.2.B.8, MAY BE REUSED OUTSIDE OF THE ROAD CORE.
- 16. THE TOP OF BACKSLOPES AND THE TOE OF FILL SLOPES MUST BE ROUNDED TO NATURALIZE THE CONSTRUCTION EVEN THOUGH THE CROSS SECTIONS DO NOT SHOW ANY SUCH ROUNDING.
- 17. IN PERMANENT AREAS OF CONSTRUCTION, WHERE TURF ESTABLISHMENT IS REQUIRED, PROVIDE FOR A MINIMUM DEPTH OF 6-INCH OF TOPSOIL.
- 18. ALL SIDE ROADS AND ENTRANCES ADJACENT TO THE T.H. 10 MAINLINE, C.R. 65, 45TH AVE. , AND DITCH BLOCKS NOT IN THE MEDIAN THAT ARE REGRADED DUE TO PROJECT CONSTRUCTION WORK, MUST HAVE 1:6 INSLOPES.
- 19. ALL MEDIAN DITCH BLOCKS, MEDIAN U-TURNS (MUTS) AND RESTRICTED CROSSING U-TURNS (RCUTS) MUST HAVE 1:10 INSLOPES IN THE LONGITUDINAL (TRAVEL) DIRECTION OF T.H. 10.
- 20. SEE AGREEMENT WITH BNSF FOR REQUIREMENTS REGARDING BNSF RIGHT OF ENTRY, FLAGGING, AND NO WORK WITHIN 25 FEET OF RAILROAD TRACK WITHOUT BNSF FLAGGER PRESENT.
- 21. THE CONTRACTOR IS HEREBY REMINDED OF HIS RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE THROUGH GOPHER STATE ONE-CALL AT (800)-252-1166.
- 22. EARTHWORK REQUIRED FOR CULVERT OR STORM-SEWER INSTALLATION CONSIDERED **INCIDENTAL** UNLESS SPECIFICALLY NOTED ON EARTHWORK TABULATION.
- 23. COMPACTION OF ALL GRANULAR MATERIAL AND SELECT GRANULAR MATERIAL WILL BE IN ACCORDANCE WITH MNDOT SPECIFICATION 2106.
- 24. CONSTRUCT WIDENING AND NEW EMBANKMENT BY PLACING AND COMPACTING AGGREGATE BASE (CV) CLASS 5 IN ACCORDANCE WITH MNDOT SPECIFICATION 2211.
- 25. AGGREGATE SURFACING SPECIAL MATERIAL TO BE COMPACTED BY THE QUALITY COMPACTION METHOD.
- 26. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE CONSTRUCTION LIMITS MUST BE RESTORED AT THE CONTRACTOR'S EXPENSE.

- 27. CAUTION MUST BE EXERCISED IN EXCAVATION AREAS NEAR INPLACE UTILITIES INTENDED TO REMAIN IN PLACE IN ORDER TO AVOID CONTACT WITH THOSE UTILITIES.
- 28. WHERE NOTED IN THE PLAN, THE TERM "LOON" REFERS TO THE AREA OF WIDENED OUTSIDE SHOULDER ADJACENT TO MEDIAN U-TURNS TO ACCOMMODATE HEAVY COMMERCIAL VEHICLE TURNING MOVEMENTS.
- 29. WHERE NOTED IN THE PLAN, THE ABBREVIATION "MUT" STANDS FOR MEDIAN U-TURN.
- 30. WHERE NOTED IN THE PLAN, THE ABBREVIATION "RCUT" STANDS FOR RESTRICTED CROSSING U-TURN.
- 31. PROVIDE FOR A LONGITUDINAL JOINT TREATMENT ACCORDING TO MNDOT SPECIFICATION 2355, BITUMINOUS FOG SEAL REQUIREMENTS.
- 32. KEEP ROADS CLEAN OF SEDIMENT. USE A STREET SWEEPER WITH PICK-UP TYPE NON-DUST GENERATING POWER BROOM AS OFTEN AS NECESSARY TO KEEP ROADS VISIBLY CLEAN WITHIN 24 HOURS OF ACTIVITY THAT GENERATES SEDIMENT TRACKING OR BEFORE OPENING THE AFFECTED LANES TO TRAFFIC, WHICHEVER COMES FIRST. ALL STREET SWEEPING WORK, INCLUDING STREET SWEEPER, TO BE INCIDENTAL.

	THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL
	HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT
	STANDARD PLATES
PLATE NO.	DESCRIPTION
3007F	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
3014L	REINFORCED CONCRETE PIPE ARCH (3 SHEETS)
3128H	METAL SAFETY APRON & GRATE (2 SHEETS)
3129A	METAL APRON FOR CORRUGATED POLYETHYLENE PIPE (USE AT ENTRANCES AND DRIVEWAYS)
3145G	CONCRETE PIPE OR PRECAST BOX CULVERT TIES
3221D	CORRUGATED STEEL PIPE COUPLING BAND (3 SHEETS)
4010I	CONCRETE ADJUSTING RINGS
4024A	48" DIA. PRECAST SHALLOW DEPTH CATCH BASIN - DESIGN SD
4026B	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4110F	COVER CASTING FOR MANHOLE (FOR USE IN ALL TRAFFIC AREAS) * CASTING NO. 715 AND 716
4180J	MANHOLE OR CATCH BASIN STEP
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
7102K	CONCRETE CURB AND GUTTER (DESIGN D, DESIGN S, AND DESIGN R)
7113A	CONCRETE APPROACH NOSE DETAIL
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)
8106D	EQUIPMENT PAD B
8128E	LIGHT FOUNDATION - DESIGN H PRECAST/CAST-IN-PLACE (49 FT. POLE) (2 SHEETS)
8129A	SHIM AND WASHER (TRAFFIC CONTROL SIGNALS AND ROADWAY LIGHTING)
8150C	INSTALLATION OF CULVERT MARKERS
9350C	MAILBOX SUPPORT - SWING AWAY TYPE (3 SHEETS)

			EARTHWORK	TABULATION	١	A
	STA	TION	EXCAVATION - COMMON	GRANULAR EMBANKMENT (CV)	SELECT GRANULAR EMBANKMENT (CV)	COMMON EMBANKMENT (CV
	FROM	ТО	CU YD	CU YD	CU YD	CU YD
	C P 65/ 45TH AV	E - S.P. 071-596-	-008			
	120+50	120+52	170	10	76	23
	120+52	121+00	177	248	79	24
	121+00	121+50	186	260	82	27
	121+50	122+00	195	207	82	29
	122+00	122+50	250	116	82	38
	122+50	123+00	358	46	83	47
	123+00	123+50	443	19	83	51
	123+50	124+00	530	10	83	51
	124+00	124+50	536	21	83	53
	124+50	125+00	457	86	83	57
	125+00	125+50	402	196	83	60
	125+50	126+00	378	292	82	68
	126+00	126+50	380	388	83	157
	126+50	127+00	267	418	81	125
	127+00	127+35	114	277	56	10
	127+35	127+50	49	121	24	4
	127+50	128+00	183	437 437	81	27
	128+00 128+50	128+50	217		82	41
	129+00	129+00 129+50	261 315	349 269	82 82	49
	129+50	130+00	347	245	82	50
	130+00	130+50	319	279	82	48
	130+50	131+00	251	374	82	44
	131+00	131+50	204	492	83	42
	131+50	132+00	193	543	84	50
	132+00	133+00	515	804	180	142
(B)	133+00	134+00	717	467	205	193
	134+00	135+00	672	608	262	224
	135+00	136+00	440	704	223	137
	136+00	137+00	358	883	148	112
	137+00	138+00	381	1109	157	158
	138+00	138+50	188	511	80	58
	138+50	139+00	189	452	80	47
	139+00	139+50	199	343	80	42
	139+50	140+00	233	223	80	44
	140+00	140+50	256	183	80	46
	140+50	141+00	247	231	80	44
	141+00	141+50	314	308	81	73
	141+50	142+00	388	333	81	94
	142+00	142+50	368	288	80	78
	142+50	143+00	322	211	80	64
	143+00	143+50	289	112	80	52
	143+50	144+00	314	45	80	47
	144+00	144+50	363	14	80	49
	144+50	145+00	391 364	5 7	80 79	50 48
	145+00 145+50	145+50 145+72	139	3	34	20
	145+72	146+00	145	6	45	22
	146+00	146+50	187	29	80	29
	146+50	146+87	117	27	59	15
	146+87	146+89	6	1	3	1
		•				3110
	S.P. 071-596-008		15284		4562	

- (A) 80% FEDERAL/20% STATE FUNDS.
- (B) 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

<b>4 4 1 1 4 5 1</b>						
ALLIAN	7					
		REVISIONS	CKD	DWN	DATE	NO

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME:

ABIGAIL J RICKMAN

SIGNATURE:

Wigail J Niech

DATE 2/18/25 LICENSE # 54236

EARTHWORK	TABUL.	ATIC	N

EXISTING 45TH AVE

TOTALS:

S.P. 7103-65 SUBTOTAL:

S.P.	710	3-65/	S.P.	071-5	96-008	(T.H.	10
SH	HEET	NO.	6	OF	120	SHEET	S

3463

8025

98

2940

6050

(A)

10+16	10+25	49	94	24	1
10+25	10+50	137	261	67	2
10+50	11+00	188	379	94	2
11+00	11+50	234	253	90	16
11+50	11+97	230	142	87	19
11+97	12+00	12	10	6	1
12+00	12+50	264	109	128	8
12+50	12+73	121	50	59	4
13+81	14+00	93	149	47	7
14+00	14+50	245	392	124	18
14+50	14+63	245	392	124	18
14+63	15+00	44	59	21	3
15+00	15+50	163	135	65	23
15+50	15+82	232	124	91	38
15+82	16+00	110	50	51	12
16+00	16+50	58	25	28	4
16+50	17+35	160	72	79	12
17+35	17+50	269	108	129	17
17+50	18+32	48	13	23	3
18+32	18+50	263	47	121	11
18+50	19+50	58	7	25	2
19+50	19+63	326	48	154	27
19+63	19+65	50	7	24	4
65/ 45TH AVE	EXISTING ROADBE	D REMOVAL GRADING	- S.P. 7103-65		
STING C.R. 65		2243			1222

2926

16973

EARTHWORK TABULATION

GRANULAR EMBANKMENT (CV)

CU YD

EXCAVATION COMMON

CU YD

93

187

206

241

251

259

340

102

548

516

269

260

257

199

47

392

150

151

281

200

143

135

178

121

137

133

128

79

12

550

12407

27691

STATION

T.H. 10 E.B. - S.P. 7103-65

TO

150+00

151+00

152+00

153+00

154+00

155+00

156+00

156+20

157+00

158+00

159+00

160+00

161+00

161+81

162+00

163+00

163+41

164+00

165+00

166+00

167+00

168+00

169+00

169+50

170+00

170+47

171+00

171+40

171+46

FROM

149+50

150+00

151+00

152+00

153+00

154+00

155+00

156+00

156+20

157+00

158+00

159+00

160+00

161+00

161+81

162+00

163+00

163+41

164+00

165+00

166+00

167+00

168+00

169+00

169+50

170+00

170+47

171+00 171+40 Α

CU YD

33

67

67

67

67

77

92

17

77

95

71

80

74

47

10

33

11

20

35

36

36

36

57

33

30

32

36

28

SELECT GRANULAR COMMON EMBANKMENT (CV)

CU YD

144

94

79

128

113

48

20

260

91

59

84

61

61

61

175

172

99

14

16

		PA	VEMENT REMO	VALS	D			
	STA	TION	LOCATION	REMOVE CONCRETE PAVEMENT (1)	REMOVE BITUMINOUS PAVEMENT (2)(3)			
	FROM	то		REMOVE CONCRETE PAVEMENT (1) (2)(3) SQ YD SQ YE 108 1035 1262 2297 2318 752 169 169 1785 1580 254 10306	SQ YD			
	C.R. 65/ 45	TH AVE - S.	P. 071-596-008					
	120+50	129+69	RT/ LT		1035			
(B)	138+05	146+89	RT/ LT		1262			
	S.P. 071-59	6-008 SUBTO	TAL:		2297			
		S.P. 71		_				
	149+50	170+48	LT					
	156+18	163+38	RT		752			
	T.H. 10 W.B S.P. 7103-65							
	155+75	156+29	RT	35				
	161+83	164+34	RT	50				
	169+03	171+45	RT	169				
(A)								
	C.R. 65/ 45	TH AVE - S.	P. 7103-65					
	120+50	129+69	RT/ LT		1785			
	138+05	146+89	RT/ LT		1580			
		P. 7103-65						
	13+78	19+65	RT/ LT		3871			
	S.P. 7103-6	5 SUBTOTAL:		254	10306			
	TOTALS:			254	12603			

- (1) INPLACE PAVEMENT DEPTH IS APPROXIMATELY 9.5 INCHES OF NON-REINFORCED, DOWELED CONCRETE PAVEMENT.
- (2) C.R. 65 AND 45TH AVE INPLACE PAVEMENT DEPTH IS APPROXIMATELY 5 INCHES OF BITUMINOUS PAVEMENT.
- (3) T.H. 10 INPLACE BITUMINOUS PAVEMENT DEPTH IS APPROXIMATELY 6 INCHES OF BITUMINOUS PAVEMENT.

			SAW	ING	С
	STAT	TION	LOCATION	SAWING CONCRETE PAVEMENT (FULL DEPTH) (4)	SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (4)
	FROM	ТО		LIN FT	LIN FT
	C.R. 65/ 45TH	AVE - S.P. O	71-596-008	<u> </u>	SAWING BITUMINOU PAVEMENT (FULL DEPTH) (4)  LIN FT  23 28  51  2106 851 116  91 144
	120	+50	RT/ LT		23
(B)	146	+89	RT/ LT		28
	S.P. 071-596-	-008 SUBTOTAL:			SAWING BITUMINOU PAVEMENT (FULL DEPTH) (4)  LIN FT  23 28  51  2106 851 116  91 144
	T.H. 10 E.B.	- S.P. 7103-6	5		
	149+50	170+48	LT		2106
	155+10	163+38	RT		851
	165+06	166+19	RT		116
	T.H. 10 W.B.	- S.P. 7103-6	5		
	155+75	156+91	RT	124	
	156+74	157+65	LT		91
(A)	STATION   LOCATION	RT	259		
	163+30	164+73	PAVEMENT (FULL DEPTH) (FULL DEPTH) (FULL DEPTH) (4)	144	
	169+03	171+45	RT	250	
	C.R. 65 - S.F	P. 7103-65			
	19+	<b>⊦</b> 65	RT/LT		26
	15+72	16+00	LT		32
	S.P. 7103-65	SUBTOTAL:		633	3366
	TOTALS			633	3417

#### SPECIFIC NOTE

(4) REFER TO TABULATION D FOR DEPTH OF EXISTING CONCRETE AND BITUMINOUS PAVEMENT.

		MISCEL	LANEOUS	REMOVALS	E
	STAT	TION	LOCATION	REMOVE BARBED WIRE FENCE	MAIL BOX SUPPORT
	FROM	то		LIN FT	EACH
	C.R. 65/ 45	TH AVE - S.F	. 071-596-008		
	120+50	123+72	RT	318	
(B)	127	+31	LT		
(0)	127	+84	LT		1
	S.P. 071-59	6-008 SUBTO	TAL:	318	1
	0.0.05	2 2402 05			
	C.R. 65 - S			<u> </u>	
	14+		RT		
	14+		LT		1
(A)	14+		RT		
	14+	+92	RT		1
	S.P. 7103-6	5 SUBTOTAL:			2
	TOTALS:			318	3

- (A) 80% FEDERAL/20% STATE FUNDS.
- (B) 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

ALLIANT

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME:

ABIGAIL J BIECKMAN

SIGNATURE:

Migail / Niech

DATE 2/18/25 LICENSE # 54236

TABULATIONS

(1) QUANITY BASED ON APPLICATION RATE OF 0.25 GALLONS / SQ YD. TO BE APPLIED TO AGGREGATE SHOULDERS ALONG T.H. 10 ONLY.

(A) 80% FEDERAL/20% STATE FUNDS.

(B) 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

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DATE 2/18/25 LICENSE # 54236

TABULATIONS

				1 1		PIIOMINOC	SURFACINO	, 	1		H
	STA	TION	LOCATION	AGGREGATE BASE (CV) CLASS 5	MILLED RUMBLE STRIPS	MILLED RUMBLE STRIPS (CONCRETE)	MILLED RUMBLE STRIPS INTERMITTENT (3)	BITUMINOUS MATERIAL FOR FOG SEAL (1)	TYPE SP 9.5 WEARING COURSE MIXTURE (2,C) (SPWEA240C) (2)	TYPE SP 12.5 WEARING COURSE MIXTURE (2,C) (SPWEB240C) (2)	TYPE SP 12.5 WEARI COURSE MIXTURE (4, (SPWEB440F)
	FROM	ТО		CU YD	LIN FT	LIN FT	LIN FT	GALLON	TON	TON	TON
	C.R. 65/ 4	5TH AVE - S	.P. 071-596-008								
	120+50	146+89	CENTERL INE	2135				59	1039	1058	
(B)	120+50	146+89	AGG. DRIVEWAYS	88							
											-
	SUBTOTAL S	.P. 071-596	5-008 <b>:</b>	2223				59	1039	1058	
	T 11 40 5		407.05								
	149+50	<b>B S.P. 7</b> 156+16	103-65 LT	1	666	1		15	1		
	150+75	155+33	RT		000		458	10			
	156+16	156+91	W. MUT	25			436	10			55
	156+18	163+38	W. LOON & RTL	349				17			423
	156+60	162+40	LT	343	580			- ''			725
	162+24	170+48	RCUT & E. MUT	337	300			18			507
	163+38	166+70	RT				332	7			331
	169+80	170+48	LT		69						
, a \	T.H. 10 W.	B S.P. 7	103-65								
(A)	155+75	156+29	RT			54					
	156+30	161+80	LT				550				
	168+70	169+99	E. LOON	34							75
	169+97	171+45	RT			148					
	C.R. 65 -	S.P. 7103-6	5								
	10+16	12+61	CENTERL INE	301				5	182	365	
	13+81	19+65	CENTERL INE	461				13	299	303	
	13+81	19+65	AGG. DRIVEWAYS	50							
						•					<u>i</u>
	SUBTOTAL S	.P. 7103-65	j <b>:</b>	1557	1315	202	1340	85	482	669	1060
	TOTALCO			7700	4745	200	4740		4500	4707	4000
	TOTALS:			3780	1315	202	1340	144	1520	1727	1060

- (1) QUANTITY FOR FOG SEAL OF LONGITUDINAL BITUMINOUS JOINTS WITHOUT ADJACENT RUMBLE STRIPS. QUANTITY BASED ON APPLICATION RATE OF 0.10 GAL/ SQ YD AND 2' WIDE FOG SEAL ALONG LONGITUDINAL JOINTS WITH THE DILUTED MIXTURE. SEE STANDARD SPECIFICATION 2355 FOR MATERIAL TYPE AND 3151 FOR MATERIAL REQUIREMENTS INCLUDING DILUTION RATE. (2) BITUMINOUS MATERIAL FOR SAFETY EDGE INCLUDED IN QUANITITY.
- (3) 790' BITUMINOUS AND 550' CONCRETE.

					711 17 1111 2	, CURB & GL	<b>*</b>	D MALK			
				SPEC. 2211		SPEC. 2	521			SPEC. 2531	
	STA	TION	LOCATION	AGGREGATE BASE	6" CONCRETE	DRILL & GROUT RE: COATE	• •	CONCRETE CURB RAMP WALK	CONCRETE CURB & GUTTER DESIGN	CONCRETE CURB & GUTTER DESIGN	TRUNCATE DOMES
			LUCATION	(CV) CLASS 5	WALK	QUADRA	NT	RAMP WALK	B424	S524	SQUARE
						BACK OF CURB	LANDING				MAINLINE
	FROM	TO		CU YD	SQ FT	EACH	EACH	SQ FT	LIN FT	LIN FT	SQ FT
	T.H. 10 E.B	S.P. 710	3-65								
	161+83	163+39	N. QUADRANT	3		3	6				11
	161+83	163+39	W. QUADRANT				3				11
	161+83	163+39	S. QUADRANT	2		3	3				11
	161+83	163+39	E. QUADRANT			3	3				11
	161+83	163+39	RCUT		20			339	187	56	
Δ)			•	•		•					
	C.R. 65 - S	.P. 7103-65									
	10+82	11+62	MEDIAN		229				160		
	11+99	12+61	MEDIAN		244				132		
	13+81	14+15	MEDIAN		154				72		
		•	•	•		•				· · · · · · · · · · · · · · · · · · ·	
	SUBTOTAL S.I	P. 7103-65:		5	647	24		339	551	56	44
				•		•				<del></del>	
	TOTALS:			5	647	24		339	551	56	44

- (A) 80% FEDERAL/20% STATE FUNDS.
- (B) 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

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202 o J e						
87.						
₹7:	NO	DATE	DWN	CKD	REVISIONS	

ALLIANT

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME:

ABIGAIL J RIECKMAN

SIGNATURE:

Wigail

ABIGAIL J RIECKMAN

DATE 2/18/25

LICENSE \* 54236

TABULATIONS

- (1) FERTILIZER TYPE 3 (22-5-10) @ 350 LBS/ACRE.
- (2) RATE OF 0.5 GAL PER ACRE SPRAYED. 2,4-D AMINE LABELED FOR BOTH AQUATIC AND RIGHT OF WAY USE AND FORMULATED AT 3.8 LBS ACID EQUIVALENT PER GALLON. WEED SPRAY MIXTURE WILL BE MEASURED BY VOLUME OF HERBICIDE FURNISHED AND USED.
- (3) INCLUDES ALL REQUIRED MAINTENANCE AND REPLACEMENT FOR THE DURATION OF THE PROJECT.
- (4) QUANTITY BASED ON 2 ACRES OF MOWING FOR EACH ACRE SEEDED.
- (5) QUANTITY BASED ON 0.5 ACRE OF SPRAYING FOR EACH ACRE SEEDED. WEED SPRAYING TO BE DONE THROUGHOUT THE PROJECT TO CONTROL AND PREVENT THE SPREAD OF WEEDS. SUBMIT A PESTICIDE APPLICATION RECORD TO THE ENGINEER FOR EACH APPLICATION. WEED SPRAYING WILL BE MEASURED BY THE AREA COVERED OR AREA SPOT SPRAYED BY HERBICIDE AND SUCCESSFULLY APPLIED AS INDICATED BY DEAD NOXIOUS WEEDS.

- (A) 80% FEDERAL/20% STATE FUNDS.
- (B) 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

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PRINT NAME:

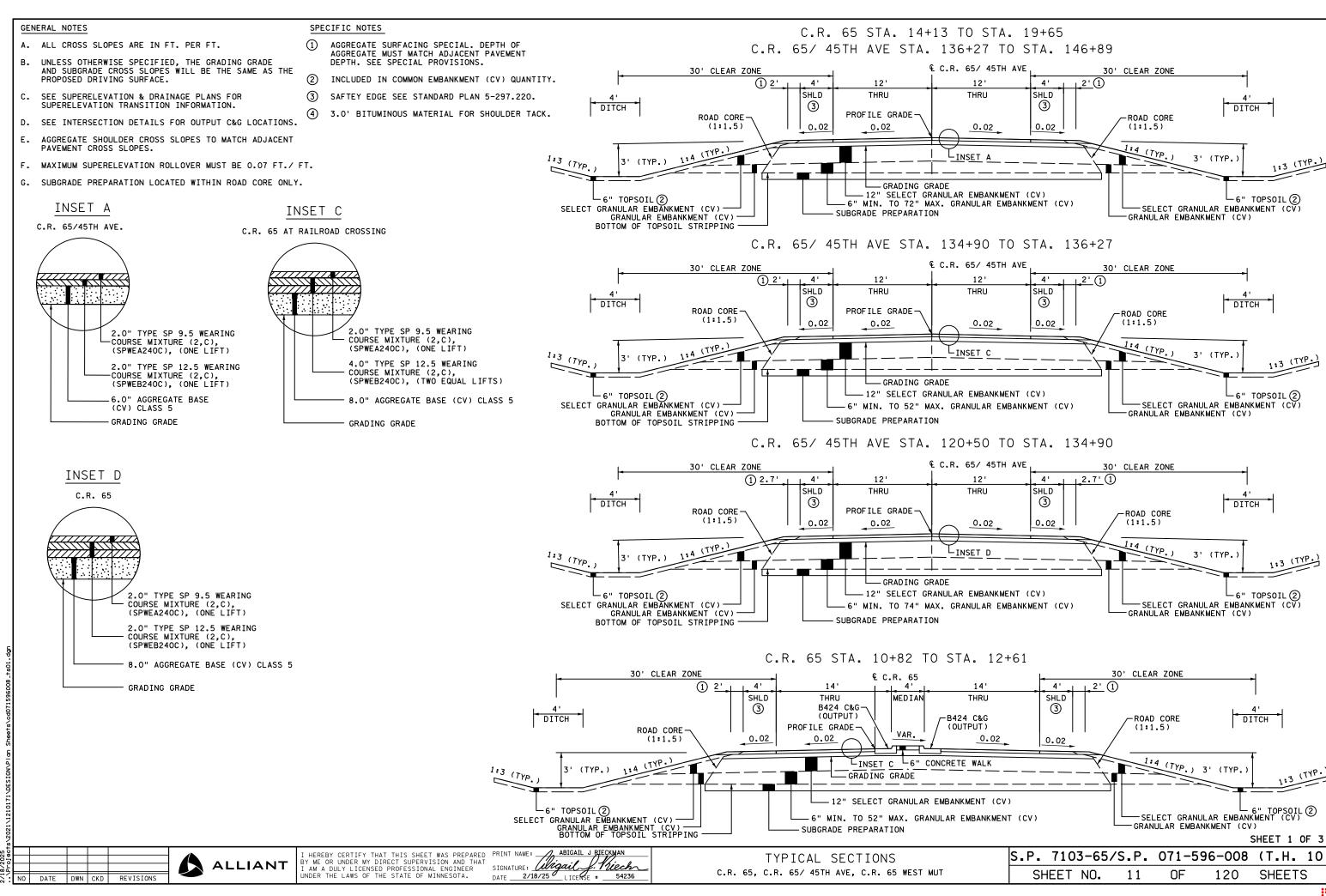
ABIGAIL J BIECKMAN

SIGNATURE:

Migail / Niech

DATE 2/18/25 LICENSE # 54236

TABULATIONS



#### GENERAL NOTES

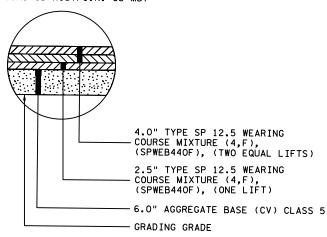
- A. ALL CROSS SLOPES ARE IN FT. PER FT.
- B. UNLESS OTHERWISE SPECIFIED, THE GRADING GRADE AND SUBGRADE CROSS SLOPES WILL BE THE SAME AS THE PROPOSED DRIVING SURFACE.
- C. SEE SUPERELEVATION & DRAINAGE PLANS FOR SUPERELEVATION TRANSITION INFORMATION.
- D. SEE INTERSECTION DETAILS FOR OUTPUT C&G LOCATIONS.
- AGGREGATE SHOULDER CROSS SLOPES TO MATCH ADJACENT PAVEMENT CROSS SLOPES.
- F. MAXIMUM SUPERELEVATION ROLLOVER MUST BE 0.07 FT./ FT.
- G. SUBGRADE PREPARATION LOCATED WITHIN ROAD CORE ONLY.

#### SPECIFIC NOTES

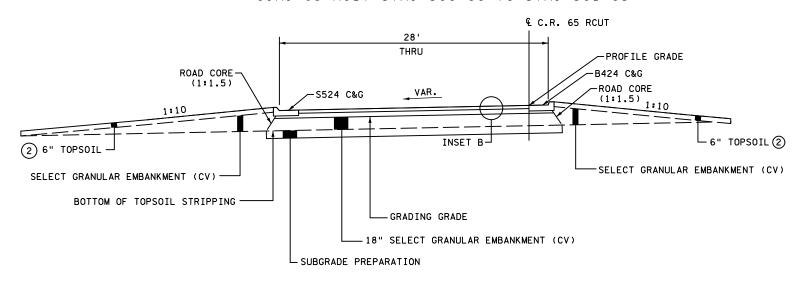
- AGGREGATE SURFACING SPECIAL. DEPTH OF AGGREGATE MUST MATCH ADJACENT PAVEMENT DEPTH. SEE SPECIAL PROVISIONS.
- INCLUDED IN COMMON EMBANKMENT (CV) QUANTITY.
- 3.0' BITUMINOUS MATERIAL FOR SHOULDER TACK.

# INSET B

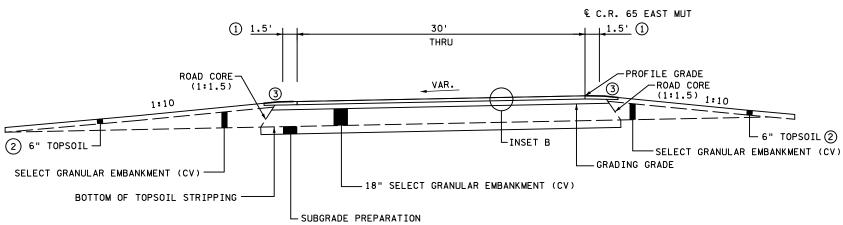
T.H. 10/C.R. 65 RCUT/C.R. 65 MUT



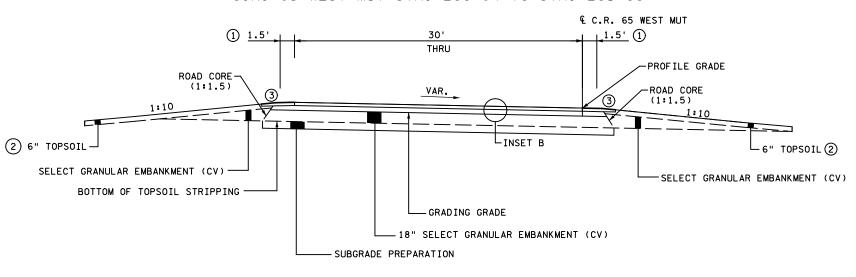
# C.R. 65 RCUT STA. 300+00 TO STA. 301+03



# C.R. 65 EAST MUT STA. 400+00 TO STA. 401+00



# C.R. 65 WEST MUT STA. 200+64 TO STA. 201+00



SHEET 2 OF 3

DATE DWN CKD REVISIONS

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: Wigail J. Viech DATE 12/16/22 LICEMSE # 54236

TYPICAL SECTIONS C.R. 65 RCUT AND C.R. 65 EAST MUT

#### SPECIFIC NOTES GENERAL NOTES INSET B AGGREGATE SURFACING SPECIAL. DEPTH OF A. ALL CROSS SLOPES ARE IN FT. PER FT. AGGREGATE MUST MATCH ADJACENT PAVEMENT T.H. 10/C.R. 65 RCUT/C.R. 65 MUT B. UNLESS OTHERWISE SPECIFIED, THE GRADING GRADE AND SUBGRADE CROSS SLOPES WILL BE THE SAME AS THE PROPOSED DRIVING SURFACE. DEPTH. SEE SPECIAL PROVISIONS. INCLUDED IN COMMON EMBANKMENT (CV) QUANTITY. DITCH GRADING FROM T.H. 10 E.B. STA. 156+90 TO C. SEE SUPERELEVATION & DRAINAGE PLANS FOR SUPERELEVATION TRANSITION INFORMATION. AGGREGATE SHOULDER 4' WIDE FROM T.H. 10 W.B. STA. D. SEE INTERSECTION DETAILS FOR OUTPUT C&G LOCATIONS. 156+78 TO STA, 161+83, AGGREGATE SHOULDER CROSS SLOPES TO MATCH ADJACENT LTL INPLACE FROM T.H. 10 W.B. STA. 164+34 TO STA. 169+03. PAVEMENT CROSS SLOPES. 4' INPLACE SHOULDER FROM T.H. 10 W.B. STA. 169+03 TO F. MAXIMUM SUPERELEVATION ROLLOVER MUST BE 0.07 FT./ FT. 4.0" TYPE SP 12.5 WEARING - COURSE MIXTURE (4,F), 4' SHOULDER FROM T.H. 10 E.B. STA. 169+80 TO STA. 170+48. G. SUBGRADE PREPARATION LOCATED WITHIN ROAD CORE ONLY. (SPWEB440F), (TWO EQUAL LIFTS) LOON CONSTRUCTION FROM T.H. 10 W.B. STA. 168+35 TO STA. 169+99 ONLY. INPLACE PAVEMENT WITHIN REMAINDER 2.5" TYPE SP 12.5 WEARING - COURSE MIXTURE (4,F), (SPWEB440F), (ONE LIFT) OF TYPICAL SECTION AREA. MATCH EXISTING EDGE OF PAVEMENT ELEVATION. 6.0" AGGREGATE BASE (CV) CLASS 5 (9) 3.0' BITUMINOUS MATERIAL FOR SHOULDER TACK. GRADING GRADE LOON CONSTRUCTION FROM T.H. 10 E.B. STA. 156+18 TO STA. 157+78. WIDTH OF PAVEMENT WILL VARY FROM 12' TO 27'. T.H. 10 E.B. STA. 149+50 TO STA. 156+18 € T.H. 10 W.B. € T.H. 10 E.B. 12' 12' 1.5' INP. THRU TNP. INP. THRU INP. SHLD SHLD INP. THRU INP. THRU INP. SHLD SHLD EXISTING GROUND-VAR. VAR. VAR. VAR. VAR. VAR VAR. VAR. VAR VAR SAWCUT (8) EXISTING GROUND-EXISTING GROUND (2) 6" TOPSOIL T.H. 10 E.B. STA. 156+18 TO STA. 163+38 € T.H. 10 W.B. € T.H. 10 E.B. 12'(10) 1.5' (1) (4) L1.5'(1) (1) 1.5' INP. THRU INP. THRU INP. DITCH INP. SHLD INP. THRU RTL INP INP. THRU LTL SHLD EXISTING GROUND-ROAD CORE SAWCUT(8) (1:1.5) VAR. VAR. VAR. VAR. VAR VAR. VAR. 0.02 VAR. -SAWCUT (8) LINSET GRADING GRADE SELECT GRANULAR EMBANKMENT (CV) - SUBGRADE PREPARATION BOTTOM OF 6" TOPSOIL (2) TOPSOIL STRIPPING T.H. 10 E.B. STA. 163+38 TO STA. 170+48 ⑤ <sub>12'LTL</sub> € T.H. 10 E.B. € T.H. 10 W.B. 12' 6 1.5 12' (1)1.5Δ' VĂR. 1.5' (1) LTL INP. THRU INP. THRU INP. LOON INP. THRU BIT. INP. THRU GRADING GRADE DITCH DITCH INSET B ROAD CORE--SAWCUT(8) -SAWCUT (8) -INSET B ROAD CORE -ROAD CORE (1:1.5) (1:1.5) 0.02 VAR. VAR. VAR. VAR. VAR. (1:1.5) (8) SAWCUT GRADING GRADE INSET B GRADING GRADE-SELECT GRANULAR └BOTTOM OF TOPSOIL STRIPPING (2) 6" TOPSOIL--18" SELECT GRANULAR EMBANKMENT (CV) SELECT GRANULAR BOTTOM OF-EMBANKMENT (CV) └─ 18" SELECT GRANULAR EMBANKMENT (CV) SELECT GRANULAR SUBGRADE PREPARATION L6" TOPSOIL (2) EMBANKMENT (CV) TOPSOIL STRIPPING -SUBGRADE PREPARATION EMBANKMENT (CV) - 18" SELECT GRANULAR EMBANKMENT (CV) BOTTOM OF TOPSOIL SUBGRADE PREPARATION STRIPPING I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. ABIGAIL J RIECKMAN S.P. 7103-65/S.P. 071-596-008 (T.H. 10 TYPICAL SECTIONS

SIGNATURE: Wigail J. Viech DATE 12/16/22 LICENSE # 54236

T.H. 10

**ALLIANT** 

DWN CKD REVISIONS

SHEETS

VAR.

SHEET 3 OF 3

EXISTING GROUND-

- 6" TOPSOIL (2)

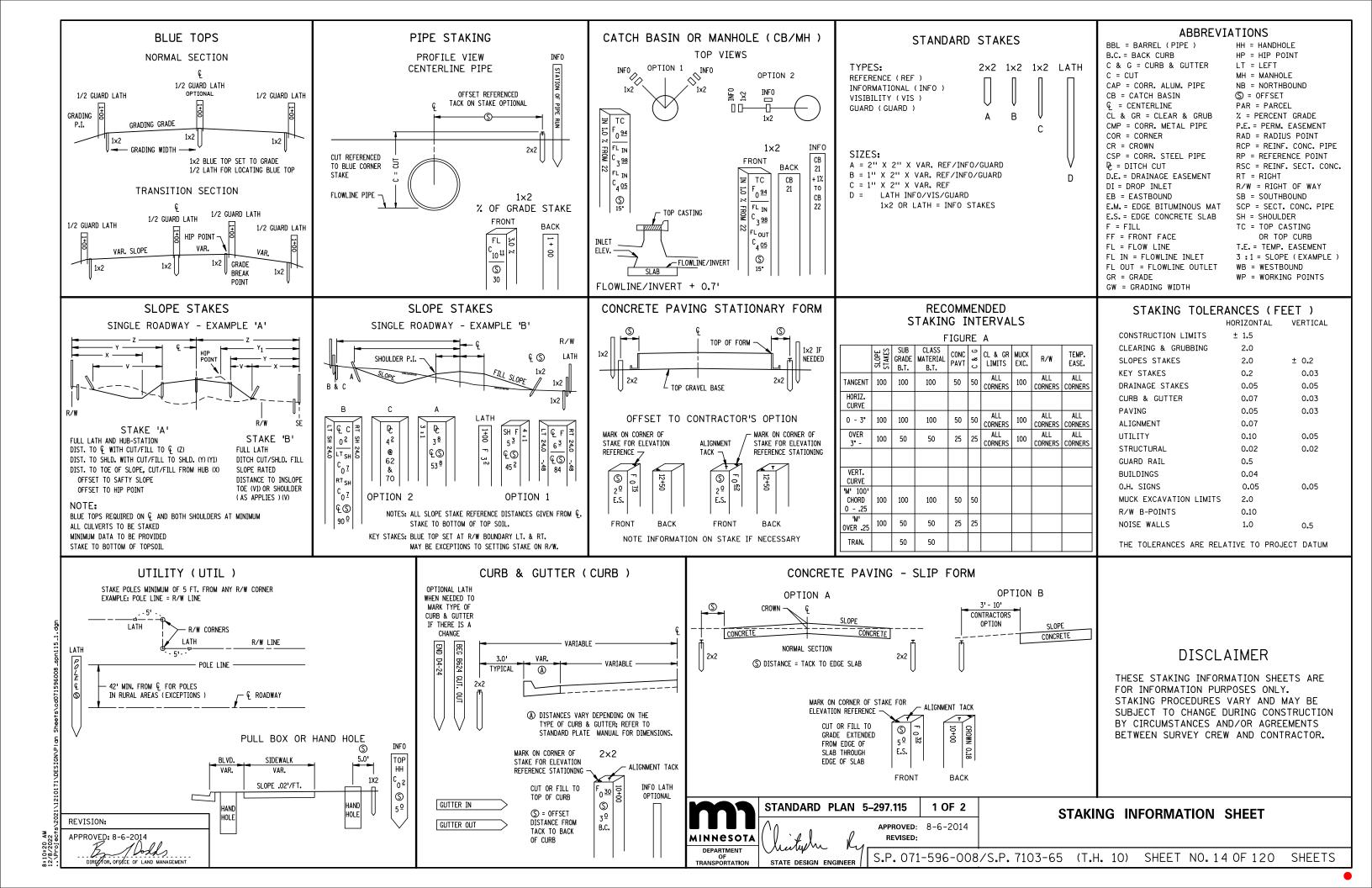
INP. SHLD

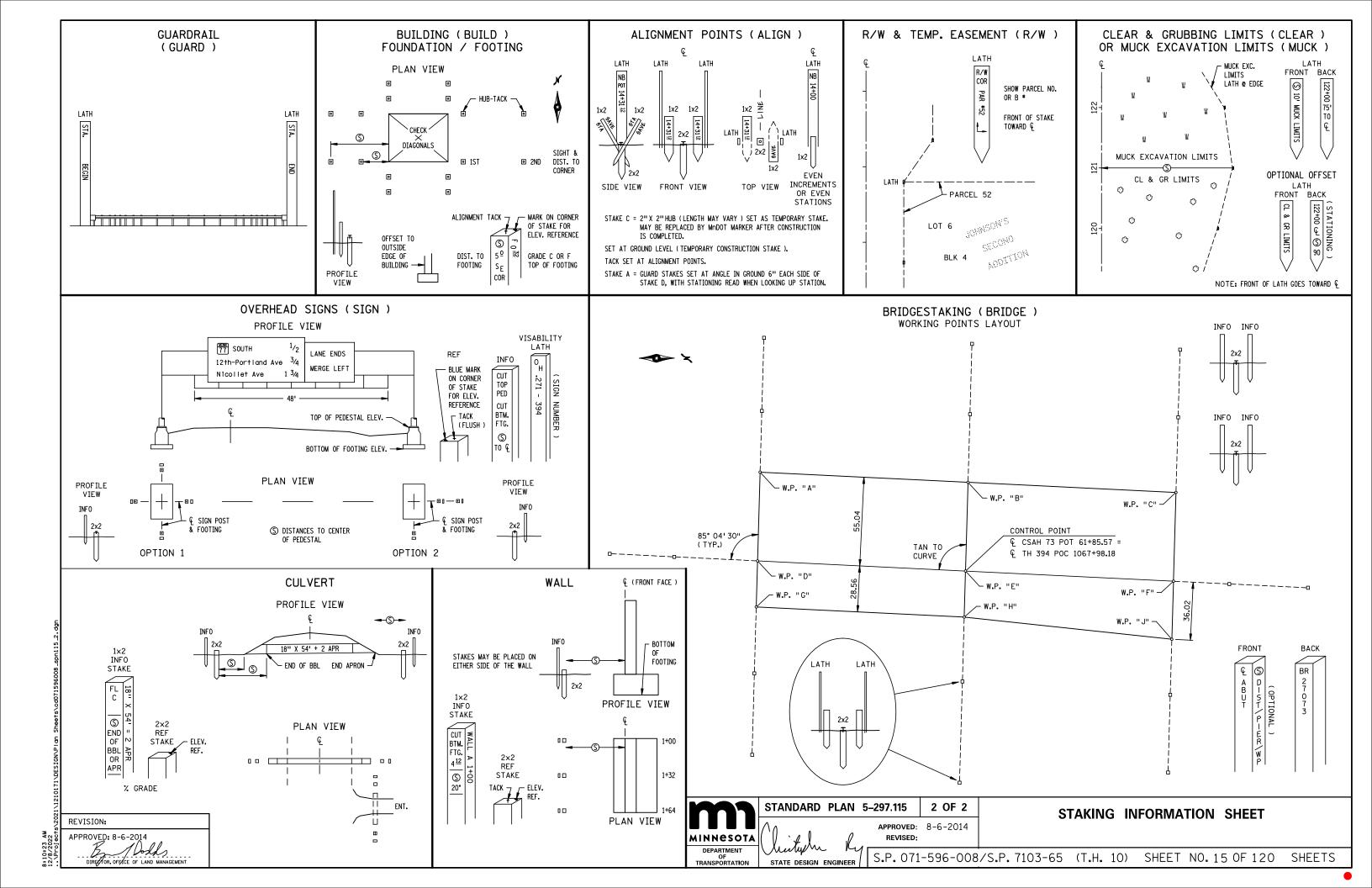
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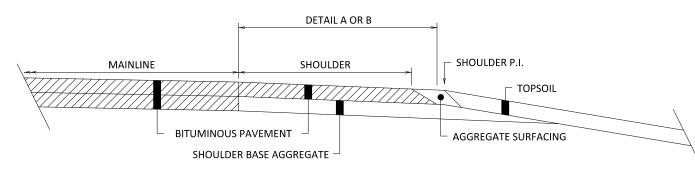
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SHEET NO.

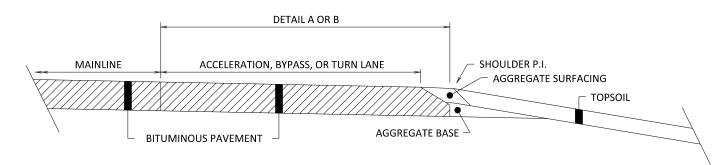
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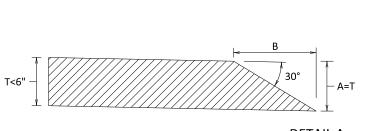




BITUMINOUS PAVEMENT WITH BITUMINOUS SHOULDERS (8' OR LESS)

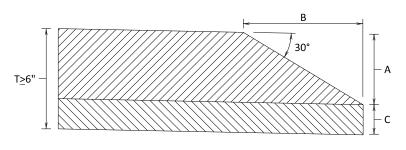


BITUMINOUS PAVEMENT WITH ACCELERATION LANES, BYPASS LANES OR TURN LANES



FOR BITUMINOUS PAVEMENT THICKNESS < 6"							
PAVEMENT THICKNESS, T	В						
2"	3.5"						
3"	5.2"						
4"	6.9"						
5"	8.7"						

DETAIL A
PAVEMENT THICKNESS <6"



FOR BITUMINOUS PAVEMENT THICKNESS ≥ 6										
PAVEMENT THICKNESS, T	А	В	С							
6"	5"	8.7"	1"							
8"	5"	8.7"	3"							
10"	5"	8.7"	5"							
12"	5"	8.7"	7"							

DETAIL B
PAVEMENT THICKNESS ≥ 6"

SAFETY EDGE
BITUMINOUS PAVEMENT

APPROVED: 02-21-2024 REVISED: THOMAS STYRBICKI STATE DESIGN ENGINEER

STANDARD PLAN 5-297.220

2 OF 2

STANDARD PLANS

S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 15A OF 120 SHEETS

# NOTES:

MAINLINE

MAINLINE

CONCRETE PAVEMENT

**BITUMINOUS PAVEMENT** 

SHOULDER BASE AGGREGATE

CONSTRUCT THE SAFETY EDGE ALONG ALL BITUMINOUS PAVEMENT EDGES ADJACENT TO AGGREGATE SURFACING. THIS INCLUDES:

- MAINLINE ROADWAYS
- SHOULDERS 8' WIDE OR LESS
- RAMPS AND LOOPS
- ACCELERATION, BYPASS AND TURN TURN LANES

CONSTRUCT THE SAFETY EDGE USING A MANUFACTURED SHOE DEVICE ATTACHED TO THE PAVING MACHINE. A SINGLE-PLATE STRIKE-OFF METHOD IS NOT ALLOWED.

PROVIDE THE SAFETY EDGE ALONG THE ROADWAY THROUGH UNPAVED ENTRANCES SUCH AS FARM ACCESSES, UNPAVED DRIVEWAYS, AND GRAVEL ROAD ACCESSES. FOR PAVED PUBLIC ENTRANCES AND PAVED DRIVEWAYS, STOP THE SAFETY EDGE AND MATCH THE PROPOSED CONSTRUCTED PAVEMENT TO THE EXISTING CONDITIONS OR FOLLOW THE DESIGN PLANS. SHORT SECTIONS OF HANDWORK MAY BE NECESSARY FOR TRANSITIONS AND TURNOUTS.

SAFETY EDGE IS OPTIONAL FOR PAVED SHOULDER WIDTHS GREATER THAN 8'.

DETAIL A OR B

**BITUMINOUS PAVEMENT** 

AGGREGATE BASE

CONCRETE PAVEMENT WITH BITUMINOUS SHOULDERS (8' OR LESS)

BITUMINOUS PAVEMENT WITH AGGREGATE SHOULDERING

SHOULDER

DETAIL A OR B

MAINLINE

SHOULDER P.I.

AGGREGATE SURFACING

AGGREGATE SURFACING

SHOULDER P.I.

TOPSOIL

TOPSOIL

SEE TYPICAL SECTIONS FOR SAFETY EDGE PLACEMENT LOCATIONS.

THE SAFETY EDGE IS ADDED TO THE OUTSIDE OF THE REQUIRED BITUMINOUS TOP SURFACE WIDTH SHOWN IN THE PLANS.

LEAD

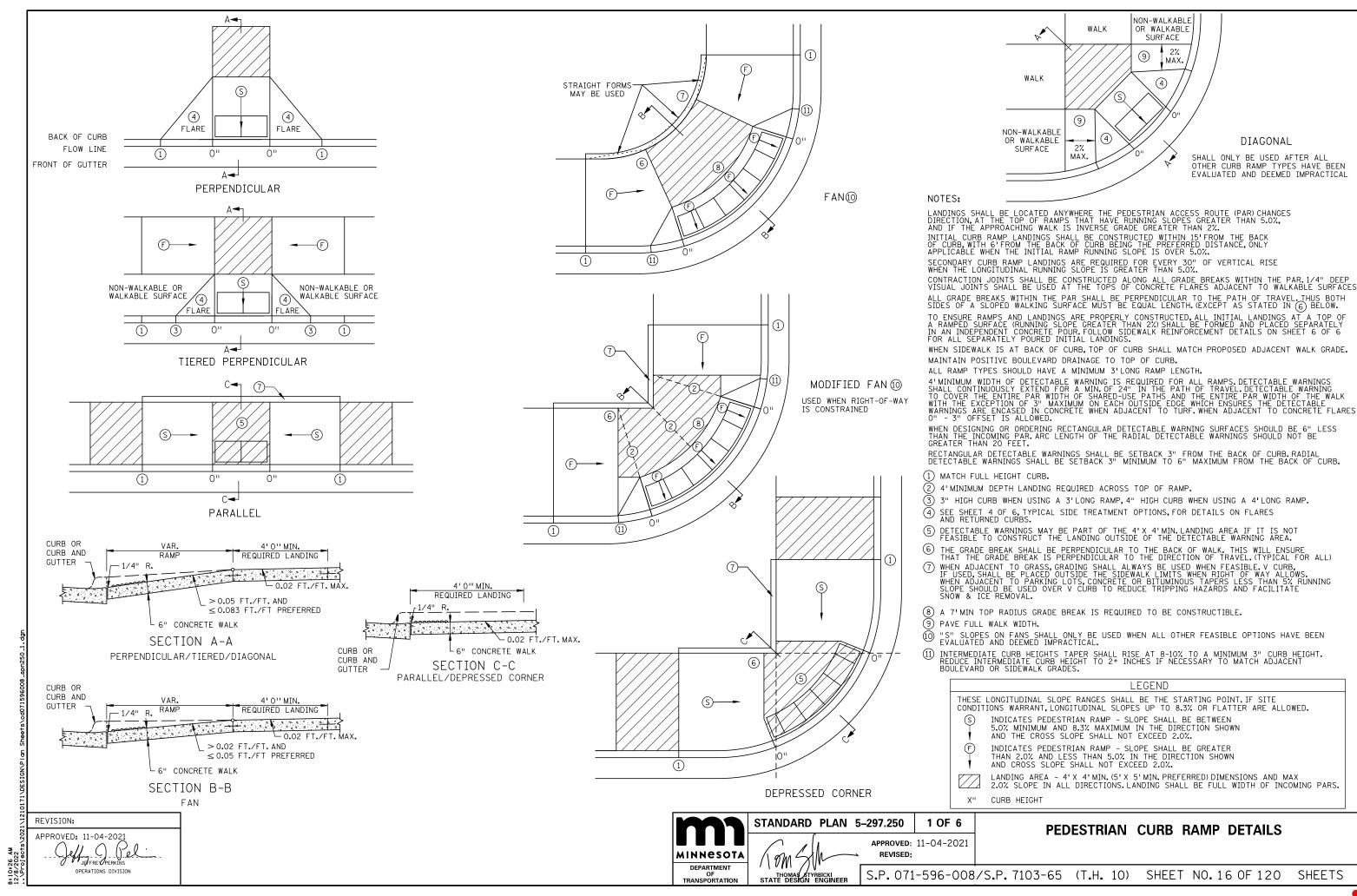
**EXPERT** 

**OFFICE** 

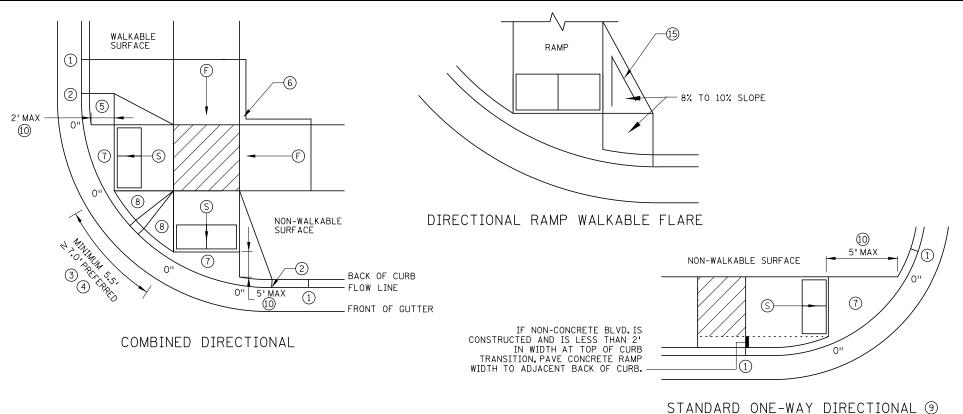
CURT TURGEON DIRECTOR

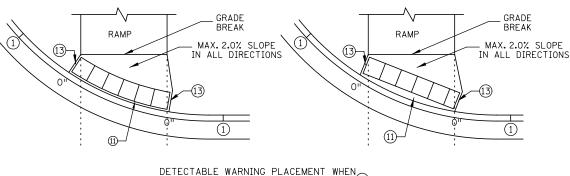
OFFICE OF MATERIALS

& ROAD RESEARCH

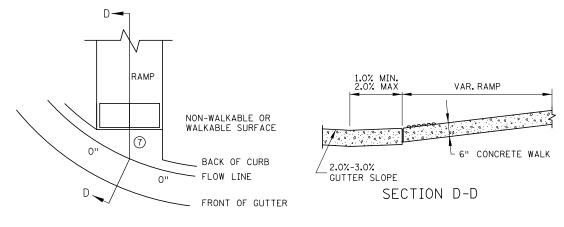


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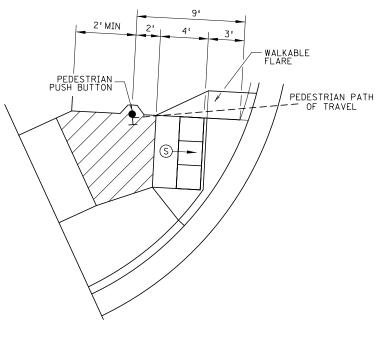




DETECTABLE WARNING PLACEMENT WHEN SETBACK CRITERIA IS EXCEEDED (12) ONE-WAY DIRECTIONAL WITH DETECTABLE WARNING AT BACK OF CURB



CURB FOR DIRECTIONAL RAMPS (4)



SEMI-DIRECTIONAL RAMP 349

3'DOME SETBACK, 4'LONG RAMP AND PUSH BUTTON 9'FROM THE BACK OF CURB

PRIMARILY USED FOR APS APPLICATIONS WHERE THE PAR DOES NOT CONTINUE PAST THE PUSH BUTTON (DEAD-END SIDEWALK)

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15'FROM THE BACK OF CURB, WITH 6'FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4'WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3'LONG RAMP LENGTH.

4'MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS, DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN, OF 24" IN THE PATH OF TRAVEL, DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF, WHEN ADJACENT TO CONCRETE FLARES O" - 3" OFFSET IS ALLOWED

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURBSEE NOTES 0 & 1 FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

- 1 MATCH FULL CURB HEIGHT.
- 3 3" MINIMUM CURB HEIGHT (5.5'MIN. DISTANCE REQUIRED BETWEEN DOMES) 4" PREFERRED (7'MIN. DISTANCE REQUIRED BETWEEN DOMES).
- (4) THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER.
- (5) WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.
- (6) GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALL LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
- (7) MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
- (8) 8% TO 10% WALKABLE FLARE.
- (9) PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED
- FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2'MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5'MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
- (1) RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB, IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
- (2) FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.
- (3) THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- (4) TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.
- (5) PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

- INDICATES PEDESTRIAN RAMP SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
- INDICATES PEDESTRIAN RAMP SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
- LANDING AREA 4'X 4'MIN. (5'X 5'MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

X" CURB HEIGHT

2 OF 6



STANDARD PLAN 5-297.250

**APPROVED:** 11-04-2021 REVISED:

PEDESTRIAN CURB RAMP DETAILS

OF TRANSPORTATION

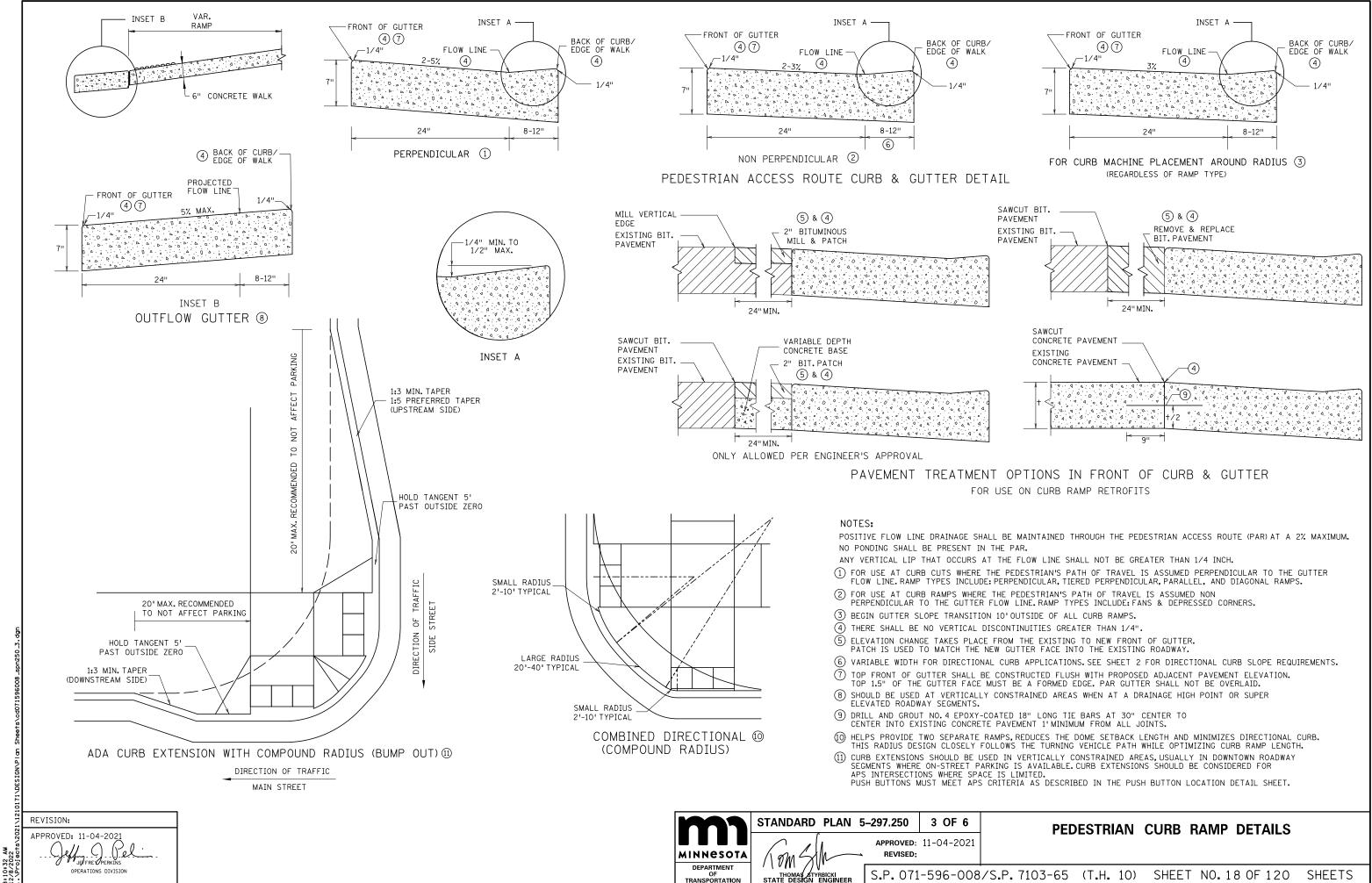
1 9M THOMAS STYRBICKI STATE DESIGN ENGINEER

S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO.17 OF 120

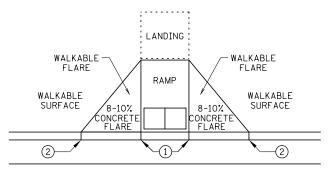
SHEETS

APPROVED: 11-04-2021

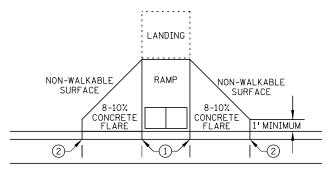
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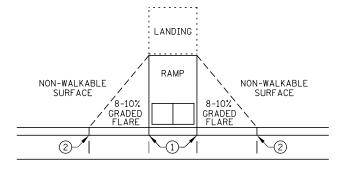
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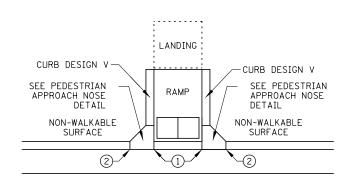
PAVED FLARES ADJACENT TO WALKABLE SURFACE



PAVED FLARES ADJACENT TO NON-WALKABLE SURFACE

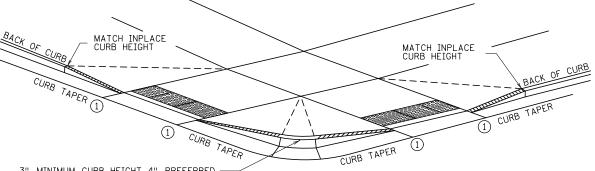


GRADED FLARES



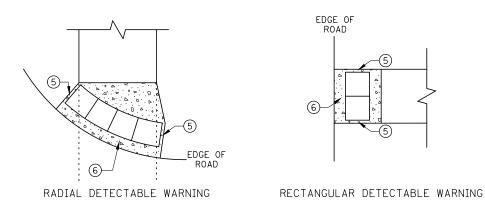
RETURNED CURB (4)

TYPICAL SIDE TREATMENT OPTIONS 3 10

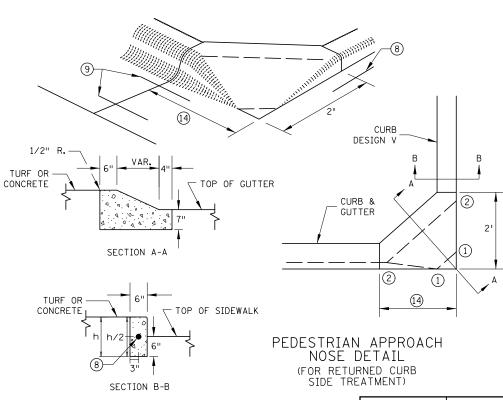


3" MINIMUM CURB HEIGHT, 4" PREFERRED (MEASURED AT FRONT FACE OF CURB) FOR A MIN. 6" LENGTH (MEASURED ALONG FLOW LINE)

## DETECTABLE EDGE WITH (7) CURB AND GUTTER



DETECTABLE EDGE WITHOUT CURB AND GUTTER



FACE OF CURB/PROJECTED FACE OF CURB WALK/PATH WIDTH DETECTABLE WARNINGS NEAREST RATI CROSSING SURFACE -(16) PEDESTRIAN GATE ARM RAILROAD DETECTABLE GATE ARM WARNINGS RAILROAD CROSSING PLAN VIEW

PLACE DETECTABLE

INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT, INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED. CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8'LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

- 1 O" CURB HEIGHT. SEE INSET A ON SHEET 3 OF 6.
- 2 FULL CURB HEIGHT.
- 3 SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
- (4) TYPICALLY USED FOR MEDIANS AND ISLANDS.
- (5) WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX.BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
- (6) IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.
- (7) ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS. AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.
- (8) DRILL AND GROUT 1 NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.
- (9) DRILL AND GROUT 2 NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.
- (I.E. 6'LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6'LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE, CONSTRUCT THESE TAPERS AT 0"-3" AT 8-10%, THEN LESS THAN 5% FROM 3" CURB TO FULL CURB HEIGHT.
- (1) NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12'MINIMUM TO 15'MAXIMUM FROM THE NEAREST RAIL.FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12'MEASURED PERPENDICULAR TO THE NEAREST RAIL.
- (2) WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SOFTACES STALL BE TEACH ON THE OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE
- (13) CROSSING SURFACE SHALL EXTEND 2'MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.
- $\widehat{(4)}$  3'FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2'ON FREE RIGHT ISLANDS.
- (5) SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.
- (6) CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.



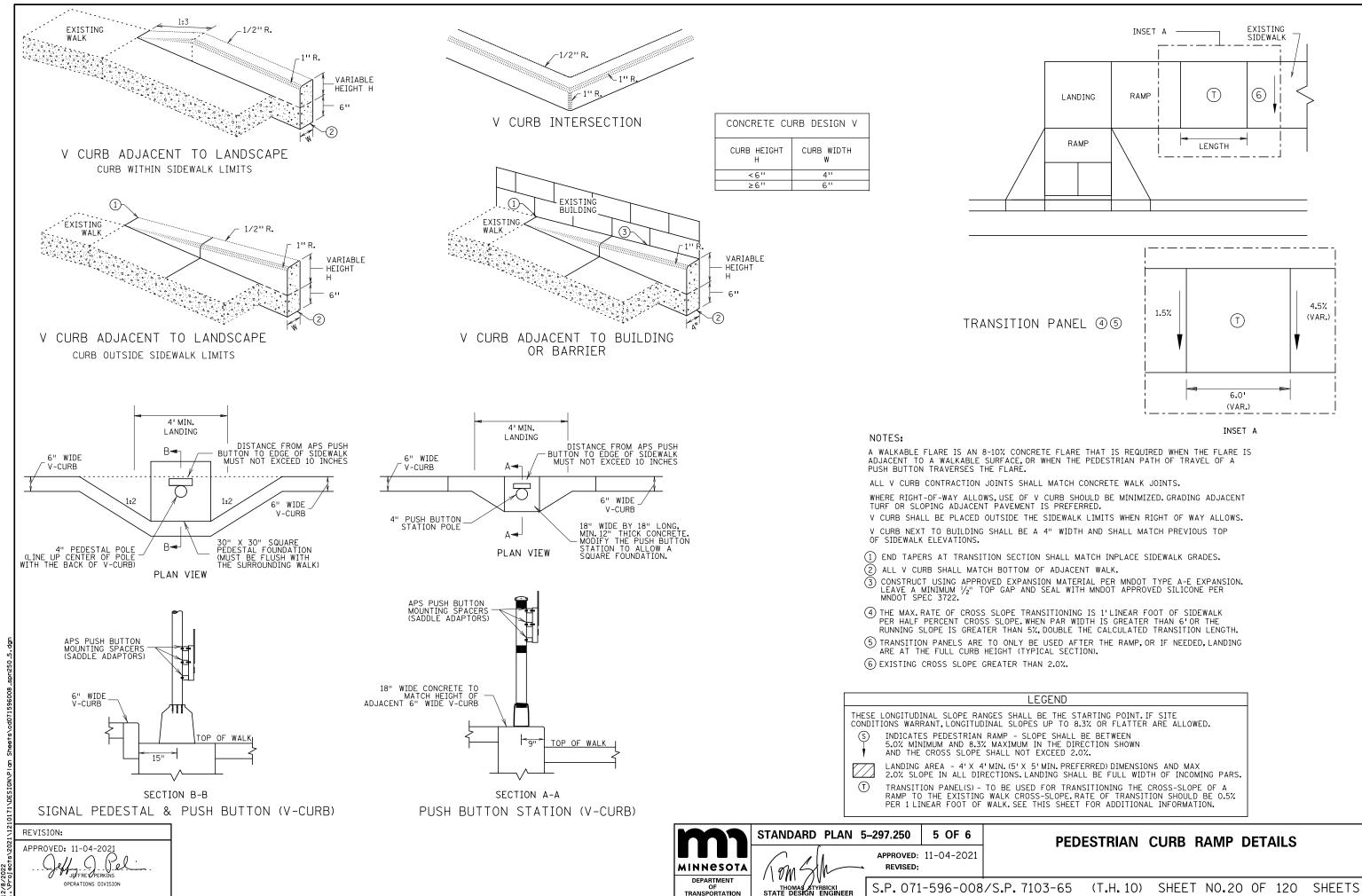
STANDARD PLAN 5-297.250 4 OF 6 **APPROVED:** 11-04-2021

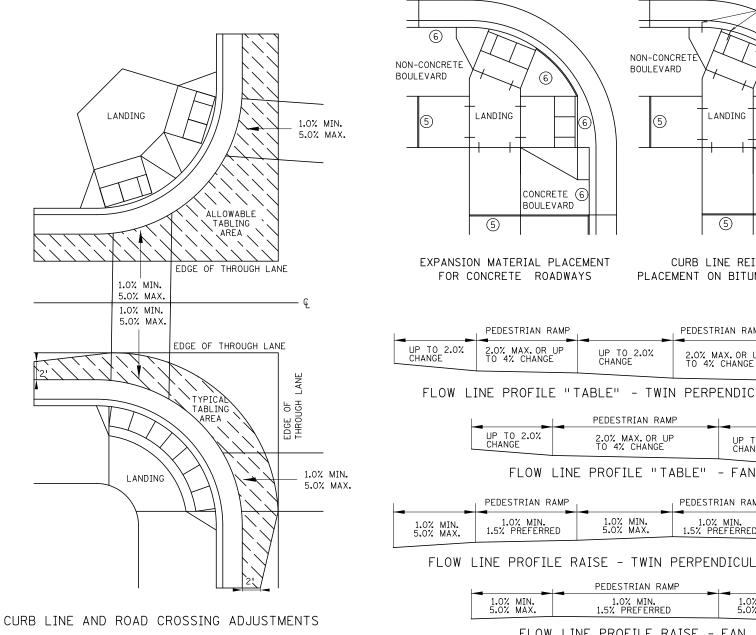
THOMAS STYRBICKI STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

OPERATIONS DIVISION

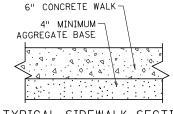
S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 19 OF 120 SHEETS





6" WALK 2" MIN.-

SECTION VIEW A-A THICKENED SECTION THROUGH CURB RAMP FLARES



TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER

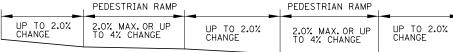
END SILL CURB AT TOP OF CURB RAMP\_AND DRIVEWAY FLARES.

CURB LINE REINFORCEMENT (4) PLACEMENT ON BITUMINOUS ROADWAYS

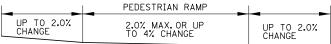
(5)

CONCRETE

BOULEVARD



FLOW LINE PROFILE "TABLE" - TWIN PERPENDICULARS





FLOW LINE PROFILE RAISE - TWIN PERPENDICULARS



FLOW LINE PROFILE RAISE - FAN

#### GENERAL NOTES:

'TABLING" OF CROSSWALKS MEANS MAINTAINING LESS THAN 2% CROSS SLOPE WITHIN A CROSSWALK,IS REQUIRED WHEN A ROADWAY IS IN A STOP OR YIELD CONDITION AND THE PROJECT SCOPE ALLOWS.

RECONSTRUCTION PROJECTS: ON FULL PAVEMENT REPLACEMENT PROJECTS "TABLING" OF ENTIRE CROSSWALK SHALL OCCUR WHEN FEASIBLE.

MILL & OVERLAY PROJECTS: "TABLING" OF FLOW LINES, IN FRONT OF THE PEDESTRIAN RAMP, IS REQUIRED WHEN THE EXISTING FLOW LINE IS GREATER THAN 2%. WARPING OF THE BITUMINOUS PAVEMENT CAN NOT EXTEND INTO THE THROUGH LANE, TABLE THE FLOW LINE TO 2% OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

1) 1.0% MIN. CROSS-SLOPE OF THE ROAD

2) 5.0% MAX. CROSS-SLOPE OF THE ROAD

3) "TABLE" FLOW LINE UP TO 4% CHANGE FROM EXISTING SLOPE IN FRONT OF PEDESTRIAN RAMP

4) UP TO 2% CHANGE IN FLOW LINE FROM EXISTING SLOPE BEYOND THE PEDESTRIAN CURB RAMP

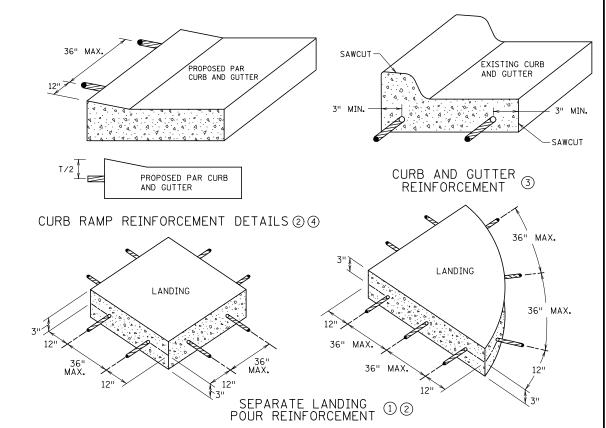
STAND-ALONE ADA RETROFITS: FOLLOW MILL & OVERLAY CRITERIA ABOVE HOWEVER ALL PAVEMENT WARPING IS DONE WITH BITUMINOUS PATCHING ON BITUMINOUS ROADWAYS AND FULL-DEPTH APRON REPLACEMENT ON CONCRETE ROADWAYS.

RAISING OF CURB LINES SHOULD OCCUR IN VERTICALLY CONSTRAINED AREAS.RAISE THE CURB LINES ENOUGH TO ALLOW COMPLIANT RAMPS OR AS MUCH AS POSSIBLE WHILE ADHERING TO THE FOLLOWING CRITERIA:

1) 1.0% MIN. AND 5.0% MAXIMUM CROSS-SLOPE OF THE ROAD

2) 1.0% MIN. FLOW LINE (ON EITHER SIDE OF PEDESTRIAN RAMP) TO MAINTAIN POSITIVE DRAINAGE
3) 5.0% RECOMMENDED MAX. FLOW LINE

4) LONGITUDINAL THROUGH LANE ROADWAY TAPERS SHOULD BE 1" VERTICAL PER 15'HORIZONTAL



#### NOTES:

THOMAS STYRBICKI STATE DESIGN ENGINEER

- (1) TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE RUNNING SLOPE GREATER THAN 2% SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON THIS SHEET FOR ALL SEPARATELY POURED INITIAL LANDINGS.
- (2) DRILL AND GROUT NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) AT 36" MAXIMUM CENTER TO CENTER MINIMUM 12" SPACING FROM CONSTRUCTION JOINTS, BARS TO BE ADJUSTED TO MATCH RAMP GRADE, BARS TO BE PAID BY EACH.
- 3 DRILL AND GROUT 2 NO. 4 X 12" LONG (6" EMBEDDED) REINFORCEMENT BARS (EPOXY COATED). REINFORCEMENT REQUIRED FOR ALL CONSTRUCTION JOINTS, BARS TO BE PAID BY EACH.
- (4) THIS CURB LINE REINFORCEMENT DETAIL SHALL BE USED ON BITUMINOUS ROADWAYS. FOR CONCRETE ROADWAYS, SEE NOTE 6.
- (5) CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.
- (6) USE AN APPROVED TYPE F (1/4 INCH THICK) SEPARATION MATERIAL. SEPARATION MATERIAL SHALL MATCH FULL HEIGHT DIMENSION OF ADJACENT CONCRETE.

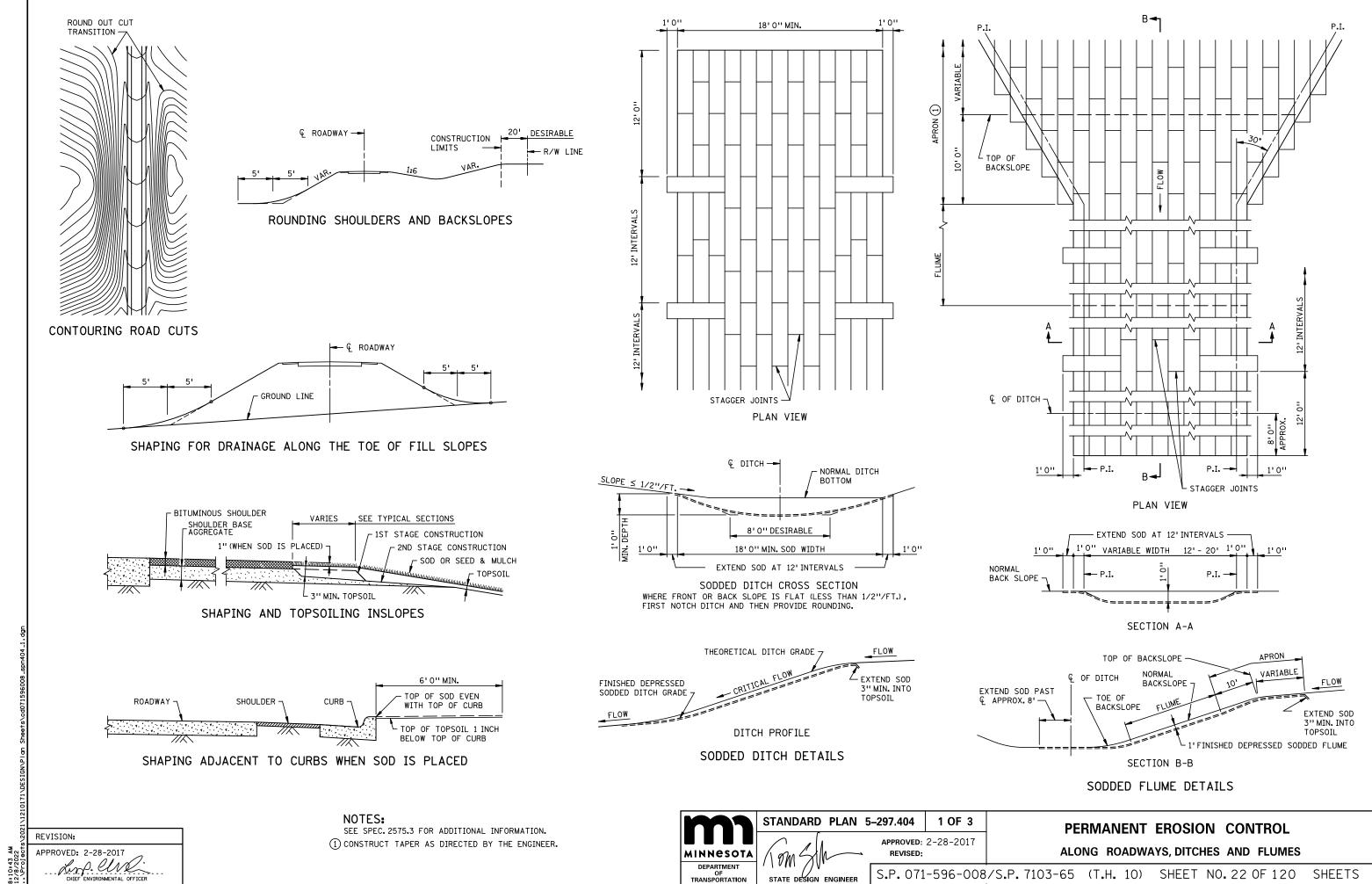


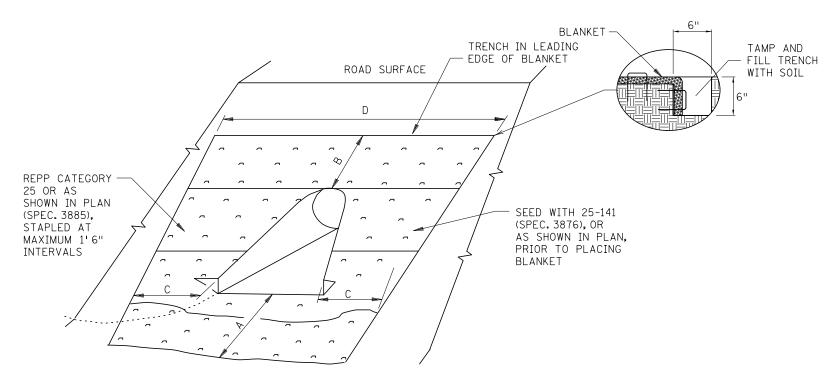
STANDARD PLAN 5-297.250 6 OF 6 **APPROVED:** 11-04-2021 REVISED:

PEDESTRIAN CURB RAMP DETAILS

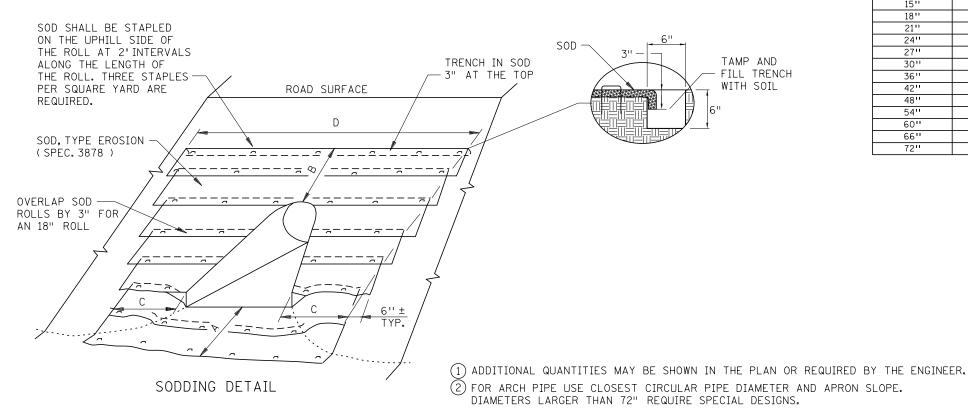
S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 21 OF 120 SHEETS

OPERATIONS DIVISION





ROLLED EROSION PREVENTION PRODUCT (BLANKET) & SEED DETAIL



			CULVER	T INLET A	PRON ①					
			SOD OR REP	P (SQ. YDS.)						
CULVERT DIAMETER	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123, PLATE 3122)		CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:4 SLOPE (PLATE 3148)	ARCH PIPE METAL SAFETY APRON 1:6 SLOPE	CORRUGATED METAL PIPE	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:4 SLOPE (PLATE 3128)	''A''	"B"	C	ייםיי
15''	9	9	8	8	N/A	N/A	3'	1.5'	3'	13'
18''	13	12	12	14	16	N/A	31	31	3'	16'
21''	14	14	14	16	18	14	31	י3	3'	17'
24"	16	15	16	19	21	17	3'	3'	3'	18'
27''	N/A	20	N/A	N/A	N/A	N/A	3'	4.5'	3'	20'
30''	23	22	25	30	32	N/A	3'	4.5'	3'	22'
36''	34	34	39	48	51	37	4.5'	4.5'	4.5	27'
42''	43	40	51	64	N/A	N/A	4.5'	6'	4.5	30'
48''	54	50	66	82	N/A	N/A	4.5'	7.5'	4.5'	34'
54"	65	58	81	102	N/A	N/A	4.5'	91	4.5'	37'
60''	69	59	91	115	N/A	N/A	4.5'	91	4.5'	39'
66"	69	63	N/A	N/A	N/A	N/A	4.5'	91	4.5'	39'
72''	78	72	99	122	N/A	N/A	4.5'	10.5'	4.51	41'

			CULVERT (	DUTLET AP	RON ①					
			SOD OR REP	P (SQ. YDS.)						
CULVERT DIAMETER ②	CIRCULAR AND ARCH PIPE METAL APRON (PLATE 3123, PLATE 3122)	ARCH PIPE	CIRCULAR AND ARCH PIPE METAL SAFETY APRON 1:4 SLOPE (PLATE 3148)	ARCH PIPE	CORRUGATED METAL PIPE	CIRCULAR CORRUGATED METAL PIPE SAFETY APRON 1:4 SLOPE (PLATE 3128)	''A''	"B"	C.i.	ייםיי
15''	10	10	9	10	N/A	N/A	4.5'	1.5'	3'	13'
18"	13	13	12	14	15	N/A	6'	1.5'	3'	14'
21''	16	14	16	18	19	15	6'	1.5'	3'	15'
24''	18	18	18	21	22	18	7.5'	1.5'	3'	16'
27''	N/A	19	N/A	N/A	N/A	N/A	7.5'	1.5'	3'	17'
30''	23	23	24	28	29	N/A	91	1.5'	3'	18'
36''	36	35	38	47	48	37	10.5'	1.5'	4.5'	23'
42''	43	40	47	58	N/A	N/A	12'	1.5'	4.5'	25'
48''	50	46	57	70	N/A	N/A	13.5'	1.5'	4.5'	27'
54''	57	50	67	84	N/A	N/A	15'	1.5'	4.5'	29'
60''	74	63	90	113	N/A	N/A	16.5'	1.5'	6'	33'
66''	75	67	N/A	N/A	N/A	N/A	16.5'	1.5'	6'	33'
72''	77	70	92	114	N/A	N/A	16.5'	1.5'	6'	34'

#### NOTES:

REPP = ROLLED EROSION PREVENTION PRODUCT.

AREA SHOWN IN SQUARE YARDS IS FOR ONE CULVERT END.

QUANTITIES ARE CALCULATED TO INCLUDE SOD REQUIRED TO PROVIDE A 3"OVERLAP ON ALL 18" WIDE ROLLS. THIS ALLOWS FOR SHRINKAGE OF THE SOD.

FOR PIPE ARCHES USE EQUIVALENT PIPE DIAMETER TO APPROXIMATE AREA.

FOR CORRUGATED POLYETHYLENE PIPE METAL APRON (PLATE 3129), USE THE METAL APRON COLUMN (PLATE 3123).

AREAS AND DIMENSIONS ARE APPROXIMATE AND ARE BASED ON APRON SIDE SLOPES OF NO STEEPER THAN 1:2, UNLESS INDICATED AS FOR SAFETY APRONS.

CARE SHOULD BE TAKEN IN SELECTING SOD TO STABILIZE THE APRON. RIP-RAP SHOULD BE USED FOR FLOW VELOCITIES GREATER THAN 6 FPS.

REVISION:

APPROVED: JANUARY 8, 2020

Main Karnowski

CHIEF ENVIRONMENTAL OFFICER



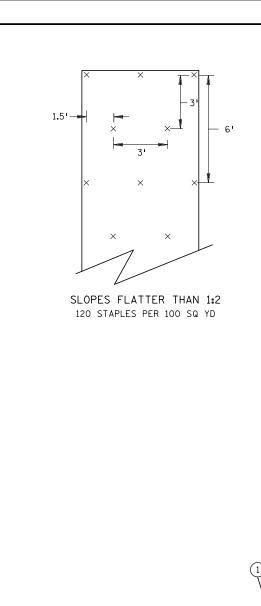
STANDARD PLAN 5-297.404 2 OF 3

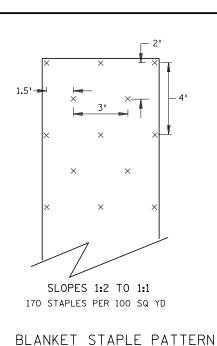
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REVISED:

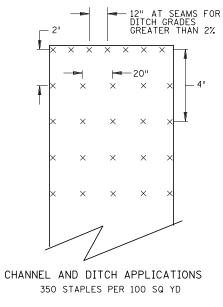
PERMANENT EROSION CONTROL
TURF ESTABLISHMENT DETAIL AT CULVERT ENDS

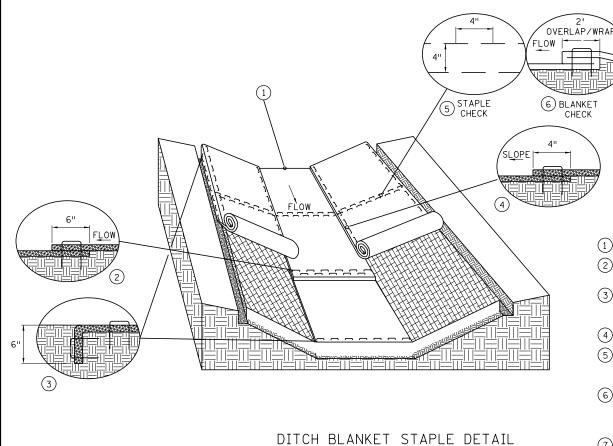
S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 23 OF 120 SHEETS

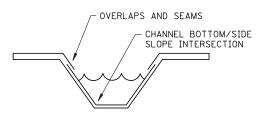
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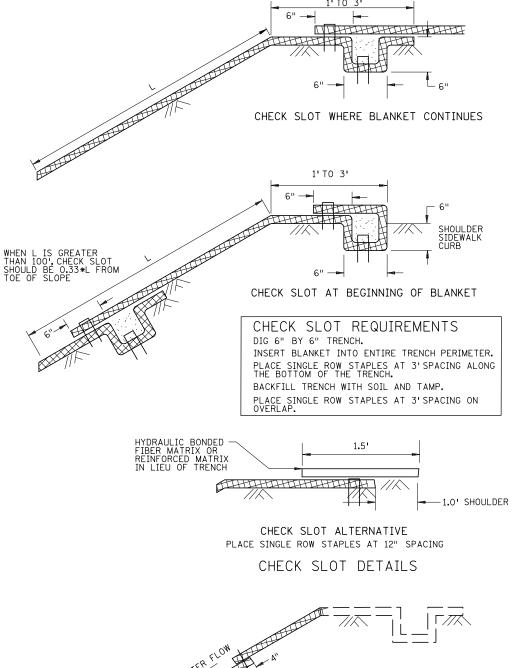


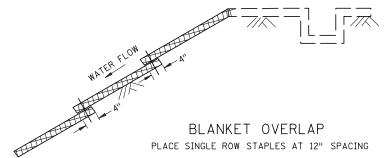




DITCH BLANKET CRITICAL POINTS (7)

- 1) USE CHECK SLOT DETAIL (NO ALTERNATES).
- 2 PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER.
- 3 USE 6" X 6" TRENCH TO PLACE BLANKET. PLACE SINGLE ROW OF STAPLES ON TOP AND TRENCH SIDES AT 12" SPACING. BACKFILL TRENCH WITH SOIL AND TAMP.
- (4) PLACE SINGLE ROW OF STAPLES AT 12" SPACING.
- (5) USE STAPLE CHECK FOR CHANNEL SLOPES LESS THAN 2.5%. GRADE AT 100' INTERVALS. PLACE DOUBLE ROW OF STAPLES STAGGERED 4" APART AND AT 4" SPACING.
- 6 USE BLANKET CHECKS FOR THE FOLLOWING SLOPES: 2.5%-3% 100' INTERVALS 3%-5% 50' INTERVALS 5%-7% 25' INTERVALS
- 7 CRITICAL POINTS SHALL BE SECURED WITH PROPER STAPLE





GENERAL BLANKET INSTALLATION REQUIREMENTS

REPP = ROLLED EROSION PREVENTION PRODUCT.

PREPARE SOIL AS PER SPECIFICATION 2574.

LAY PARALLEL OR PERPENDICULAR TO THE DIRECTION OF WATER FLOW.

OVERLAP ADJACENT STRIP EDGES A MINIMUM OF 4".

OVERLAP BLANKET 6" (MINIMUM) AT EACH END. OVERLAP BOTTOM END OF UPPER BLANKET OVER TOP END OF LOWER BLANKET. STAPLE ALONG OVERLAP EVERY 1.5'.

THE UPPERMOST BLANKET OF ALL SLOPE APPLICATIONS MUST START IN A CHECK SLOT. IF SLOPE LENGTH (L) IS 100 OR GREATER, INSERT BLANKET INTO A CHECK SLOT  $\frac{1}{3}$  FROM THE BOTTOM OF THE SLOPE.



STANDARD PLAN 5-297.404 3 OF 3 **APPROVED:** 1-8-2020

PERMANENT EROSION CONTROL REPP (BLANKET) STAPLE PATTERN FOR SLOPES

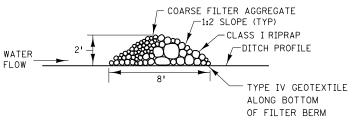
S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 24 OF 120 SHEETS

APPROVED: JANUARY 8, 2020 Waen Kawows CHIEF ENVIRONMENTAL OFFICER

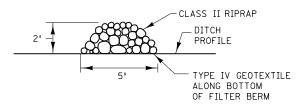
- SEDIMENT CONTROL LOG FLOW 8"-10" EMBEDMENT DEPTH-

TYPES: WOOD CHIP, COMPOST, OR ROCK

SEDIMENT CONTROL LOGS

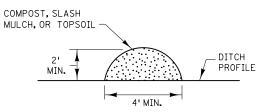


TYPE 3 (ROCK WEEPER)

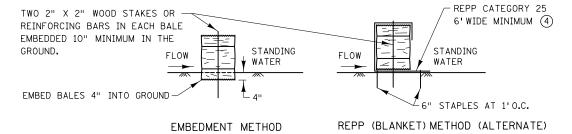


TYPE 5 (ROCK)

FILTER BERMS



TYPE 1 (COMPOST), TYPE 2 (SLASH MULCH), OR TYPE 4 (TOPSOIL)



BALE BARRIERS ③

NOTES:

REPP = ROLLED EROSION PREVENTION PRODUCT.

SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897.

- (1) SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1'FOR DITCH CHECKS OR 2'FOR OTHER
- (2) PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS, STAKES SHALL BE INCIDENTAL.
- (3) TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS (6" MAXIMUM DEPTH). BALES SHALL CONSIST OF TYPE 1 MULCH OF APPROXIMATELY 14" X 18" X 36" LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
- 4 INSTEAD OF TRENCHING, PLACE BALE ON THE REPP (BLANKET) AND WRAP BLANKET AROUND THE BALE, PLACE STAKE THROUGH BALE AND BLANKET,



STANDARD PLAN 5-297.405 2 OF 8 **APPROVED:** 1-8-2020 REVISED:

TEMPORARY SEDIMENT CONTROL FILTER BERMS, SEDIMENT CONTROL LOGS, AND BALE BARRIERS

APPROVED: JANUARY 8, 2020 Waen Kawows

CHIEF ENVIRONMENTAL OFFICER

THOMAS STYRBICKI STATE DESIGN ENGINEER

S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 25 OF 120 SHEETS

ROCK DITCH CHECKS

FILTER BERMS TYPE 3 (ROCK WEEPER) OR FILTER TYPE 5 (ROCK) ③

FOR USE ON ROUGH-GRADED AREAS

ONLY FOR USE OUTSIDE CLEAR ZONE ②

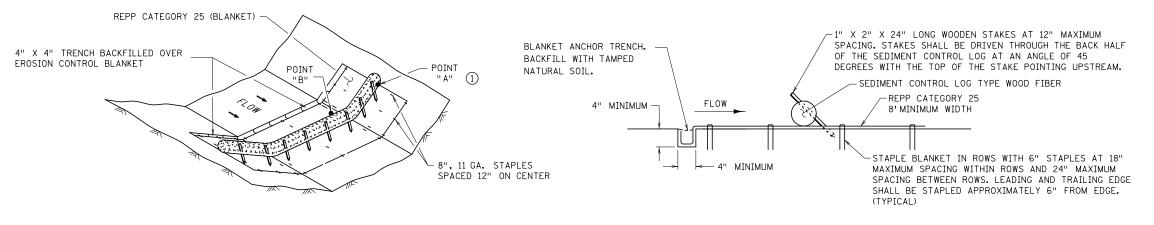
BOTTOM OF UPPER CHECK SHOULD BE SAME
ELEVATION AS THE TOP OF THE LOWER
CHECK TO PROVIDE FOR POOLING

FLOW

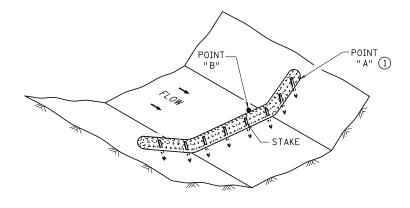
FILTER BERM TYPE 3 OR 5
(SHOWN)

SPACING (Y) DETERMINED
BY FORMULA (SEE NOTES)

DITCH CHECK SPACING FOR ALL FILTER BERM TYPES



## SEDIMENT CONTROL LOG TYPE REPP (BLANKET) SYSTEM @



SEDIMENT CONTROL LOG TYPE WOOD FIBER, OR TYPE COMPOST (5)
FOR USE ON ROUGH GRADED AREAS

REVISION:

APPROVED: JANUARY 8, 2020

Mary Kawows:

CHIEF ENVIRONMENTAL OFFICER

NOTES:

REPP = ROLLED EROSION PREVENTION PRODUCT.

SEE SPECS. 2573, 3601, 3733, 3885, 3886 & 3889.

FOR DITCH CHECKS, PLACE SEDIMENT CONTROL LOG PERPENDICULAR TO FLOW AND IN A CRESCENT SHAPE WITH THE ENDS FACING UPSTREAM.

APPROXIMATE SPACING BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM THE FOLLOWING SPACING FORMULA:

DITCH CHECK HEIGHT (FT.)

APPROXIMATE SPACING OF DITCH CHECKS (FT.) = Y = 

| STOT GLECK HEIGHT | 1.7.
| X 10

- ① POINT "A" MUST BE A MINIMUM OF 6" HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.
- ② ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT. A 1:6 APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.
- 3 DITCH GRADE 3% 5%, MAX. FLOW VELOCITY 12 FT./SEC.
- 4 DITCH GRADE 1.5% 3%, MAX. FLOW VELOCITY 4.5 FT./SEC.
- 5 DITCH GRADE 1.5% 3%, MAX. FLOW VELOCITY 1.5 FT./SEC.



STANDARD PLAN 5-297.405 3 OF 8

APPROVED: 1-8-2020

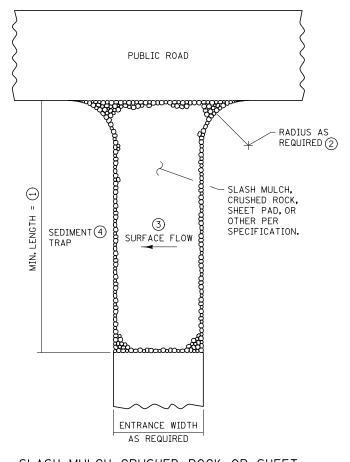
REVISED:

TEMPORARY SEDIMENT CONTROL
DITCH CHECK

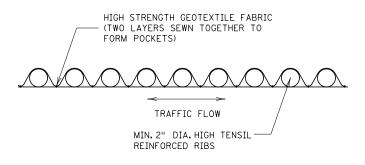
S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 26 OF 120 SHEETS

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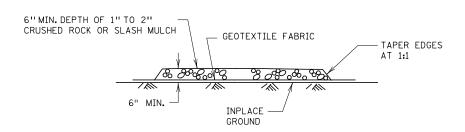
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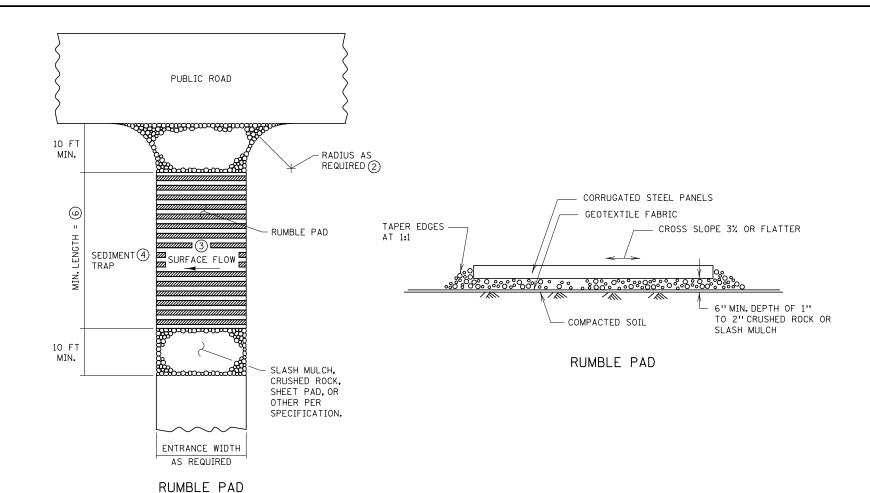
SLASH MULCH, CRUSHED ROCK, OR SHEET PAD CONSTRUCTION EXIT 57



SHEET PAD



SLASH MULCH OR CRUSHED ROCK



NOTES:

SEE SPECS. 2573 & 3882.

- (1) MINIMUM LENGTH SHALL BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL
- 2 PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.
- (3) IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY CROWNING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.
- (4) IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.
- (5) IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.
- (6) MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE ADDITIONAL VIBRATION. WASH-OFF LENGTH SHALL BE AS REQUIRED TO EFFECTIVELY REMOVE CONSTRUCTION SEDIMENT FROM VEHICLE TIRES.
- (7) MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF SEDIMENT REMOVAL HAS BEEN REDUCED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL MATERIAL (SLASH MULCH OR CRUSHED ROCK) OVER SEDIMENT FILLED MATERIAL TO RESTORE EFFECTIVENESS.

MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION EXIT 50

STANDARD PLAN 5-297.405 M S.P. 071-596-008/S.P. 7103-65 (T.H. 10) STATE DESIGN ENGINEER

**APPROVED:** 2-28-2017 REVISED:

5 OF 8

TEMPORARY SEDIMENT CONTROL

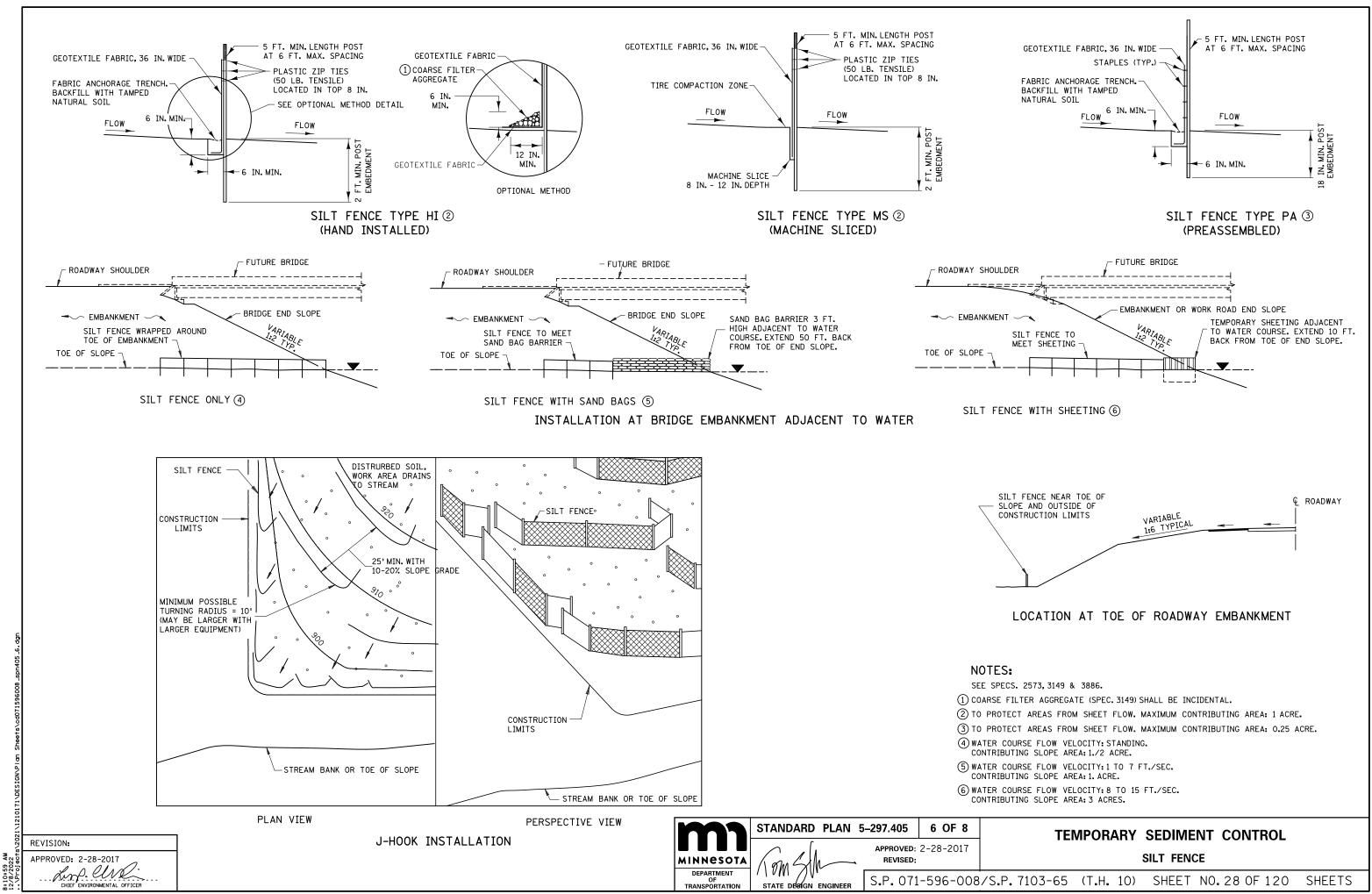
STABILIZED CONSTRUCTION EXIT

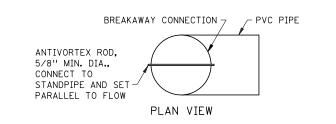
SHEET NO. 27 OF 120

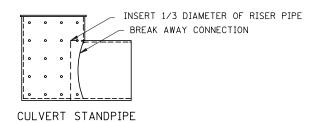
APPROVED: 2-28-2017 LAND, CULL.
CHIEF ENVIRONMENTAL OFFICER

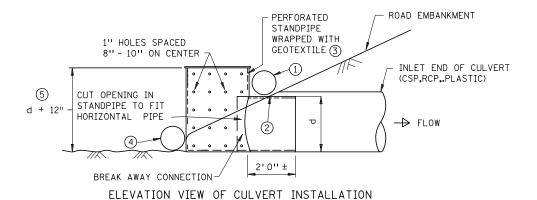
REVISION:

SHEETS

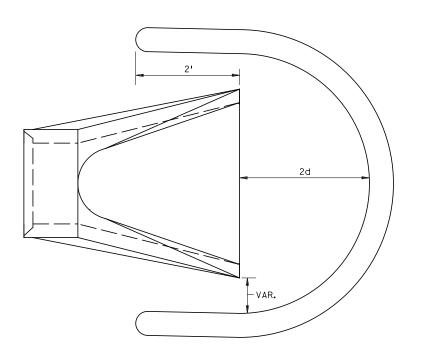




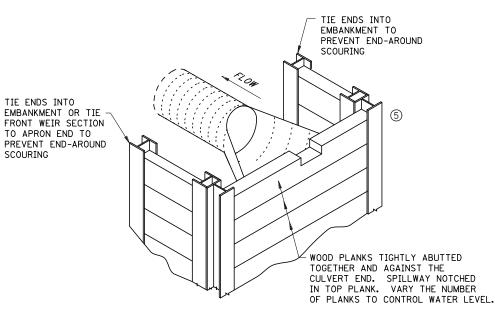




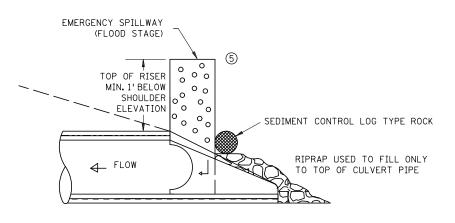
CULVERT STANDPIPE INSERT (D-RISER) d= CULVERT SIZE: 12" - 36"



SEDIMENT CONTROL LOG WEIR (COMPOST, WOOD CHIP, OR ROCK) d = CULVERT SIZE: 12"-36"

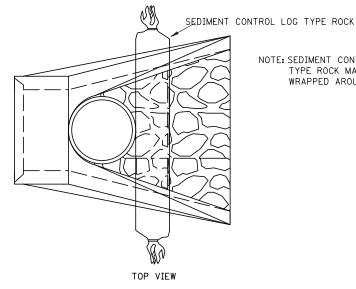


WOOD PLANK WEIR



END VIEW

LONGITUDINAL SECTION



NOTE: SEDIMENT CONTROL LOG TYPE ROCK MAY BE WRAPPED AROUND RISER

CULVERT STANDPIPE INSERT (D-RISER)

## NOTES:

SEE SPECS. 2573, 3891 & 3893.

FOR USE WHEN TEMPORARY PONDING IS NEEDED IN DITCH SECTIONS FOR SEDIMENT CONTROL.

MANUFACTURED ALTERNATIVES LISTED ON MnDOT'S APPROVED PRODUCTS LIST MAY BE SUBSTITUTED AT NO ADDITIONAL COST.

- 1 ROCK LOG OR SANDBAG TO HOLD STANDPIPE AND ACT AS A SEAL BETWEEN RISER PIPE AND CULVERT.
- $\ensuremath{ \bigcirc}$  place culvert apron and slide temporary standpipe into CSP or RCP culvert.
- (3) ALL GEOTEXTILE USED FOR CULVERT PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886 FOR MACHINE SLICED.
- 4 ROCK LOG OR RIP RAP TO HOLD STANDPIPE AND ACT AS A FILTER BETWEEN RISER PIPE AND CULVERT.
- 5 HEIGHT OVERFLOW NOT TO CAUSE FLOODING OF ROAD OR ADJACENT PROPERTIES.



STANDARD PLAN 5-297.405 8 OF 8 **APPROVED**: 2-28-2017 REVISED:

STATE DESIGN ENGINEER

TEMPORARY SEDIMENT CONTROL **CULVERT END CONTROLS** 

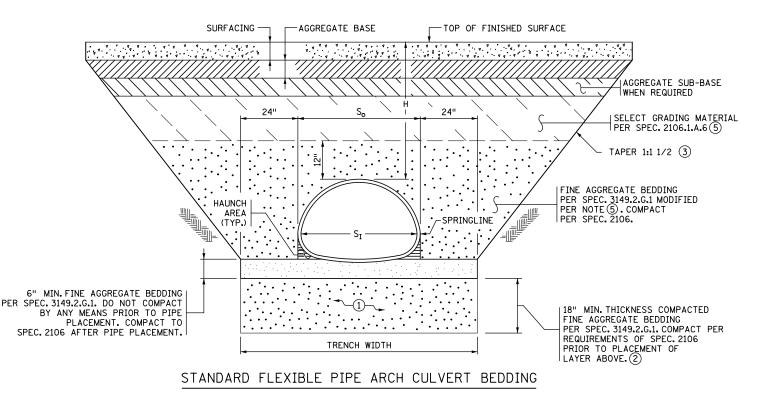
S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 29 OF 120 SHEETS

REVISION:

APPROVED: 2-28-2017

AGGREGATE BASE

TOP OF FINISHED SURFACE



 $D_T$  = INSIDE DIAMETER OF ROUND PIPE (INCHES). = OUTSIDE DIAMETER OF ROUND PIPE (INCHES).

= INSIDE SPAN OF PIPE-ARCH (INCHES).

= OUTSIDE SPAN OF PIPE-ARCH (INCHES). = FILL COVER HEIGHT OVER PIPE (FEET).

= UNDISTURBED SOIL

= COMPACTED BEDDING

LOOSE BEDDING, COMPACTED AFTER PIPE PLACEMENT

#### CONSTRUCTION SEQUENCE

TRENCH WIDTH

(FFFT)

5'-2"

5'-6"

5'-9"

6'-6"

8'-0"

9'-6"

11'-0'

12'-6"

PIPE DIA.

15"

18"

24'

30'

36"

42"

48"

- 1. PLACE AND COMPACT 18" OF FINE AGGREGATE BEDDING TO THE REQUIREMENTS OF SPEC. 2106.
- 2. LOOSELY PLACE 6" OF FINE AGGREGATE BEDDING MATERIAL (SPEC. 3149.2.G.1) TO GRADE. DO NOT COMPACT PRIOR TO PIPE PLACEMENT.
- 3. FOR PIPES WITH BELL, REMOVE MATERIAL IN BELL AREA PRIOR TO PLACEMENT.

SURFACING

- 4. FURNISH AND INSTALL PIPE TO GRADE.
- 5. AFTER PLACEMENT OF THE PIPE, PLACE ADDITIONAL BEDDING AND COMPACT THE FULL LENGTH ON BOTH SIDES OF THE PIPE UNDERNEATH THE HAUNCH AREA BY FIRST SHOVEL SLICING (MANUALLY SHOVE THE BLADE END OF A SHOVEL AT AN ANGLE DOWN THE ENTIRE LENGTH OF THE HAUNCH UNDER THE PIPE) THEN COMPACT THE HAUNCH AT AN ANGLE USING A POWERED MECHANICAL OR PNEUMATIC DEVICE (I.E. POLE TAMPER,
- 6. COMPACT THE REMAINING MATERIAL OUTSIDE THE HAUNCH AREA TO THE REQUIREMENTS OF SPEC. 2106 ENSURING THAT THE ENTIRE LENGTH OF PIPE IS SUPPORTED UNIFORMLY BY BEDDING.
- 7. PLACE AND COMPACT BACKFILL EVENLY AND SIMULTANEOUSLY IN 6" LIFTS ON EACH SIDE OF THE PIPE TO 12" ABOVE TOP OF PIPE WHEN COMPACTED.
- 8. COMPLETE REMAINING BACKFILL.
- 9. PIPE INSTALLATION MAY REQUIRE THE USE OF RESTRAINTS, WEIGHTING OR OTHER APPROVED METHODS IN ORDER TO HELP MAINTAIN GRADE AND ALIGNMENT.

# NOTES

STANDARD BEDDING FOR FLEXIBLE PIPE CULVERTS WITHOUT TREATMENTS.

METAL ENTRANCE CULVERTS (FIELD AND DRIVEWAY CULVERTS) DO NOT NEED BEDDING UNLESS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS.

PLASTIC ENTRANCE CULVERTS REQUIRE BEDDING PER SPEC. 2501.3.C.4. BEDDING COSTS FOR PLASTIC ENTRANCE CULVERTS WILL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE RELEVANT CULVERT PAY ITEM.

FLEXIBLE PIPE INCLUDES METAL AND PLASTIC MATERIAL SUCH AS CORRUGATED POLYPROPYLENE (PP) AND CORRUGATED POLYETHYLENE (CP).

UNLESS OTHERWISE NOTED IN THE PLAN, BEDDING QUANTITIES ARE COMPUTED FOR THE FULL LENGTH OF THE PIPE AND APRON, AND WILL NOT BE ADJUSTED FOR CHANGES TO MEET OSHA REQUIREMENTS.

WHEN RIPRAP IS REQUIRED AT THE APRON END, SEE STANDARD PLATE OR PLAN FOR RIPRAP INSTALLATION AND QUANTITIES. FOR APRONS WITHOUT RIPRAP PLACE 6" MIN.FINE AGGREGATE BEDDING UNDER APRONS.USE A TRENCH WIDTH EQUAL TO THE PIPE TRENCH WIDTH.

CONTRACT PAY ITEM FOR FINE AGGREGATE BEDDING INCLUDES THE COST OF EXCAVATION, PLACEMENT AND COMPACTION.

EXCAVATION AND BACKFILL WITH SELECT GRADING MATERIAL ARE NOT TABULATED SEPARATELY BUT ARE INCLUDED IN THE CONTRACT UNIT PRICE OF THE RELEVANT CULVERT PAY ITEM.

EXCAVATE & CONSTRUCT ALL TRENCHES AND SLOPES PER OSHA REQUIREMENTS.

ALL SLOPES SHOWN AS (V): (H).

PIPE SIZE IS BASED ON THE NOMINAL INSIDE DIAMETER OR SPAN.

PROTECT ALL PIPE DURING CONSTRUCTION PER SPEC. 2501.

PLACE MULTIPLE PIPE CULVERTS WITH A CLEARANCE OF 24 INCHES OR GREATER BETWEEN STRINGS OF PIPE.

- 1 IF APPROVED BY THE ENGINEER, IN WET CONDITIONS THE CONTRACTOR MAY SUBSTITUTE 18" OF COARSE FILTER AGGREGATE PER 3149.2.H COMPACTED TO THE QUALITY COMPACTION REQUIREMENTS OF SPEC.2106.WRAP WITH GEOTEXTILE FABRIC TYPE IV PER SPEC.3733.SEAM ALL FABRIC SIDES AND ENDS PER SPEC. TABLE 3733-1 INCLUDING FOOTNOTE (e) OR OVERLAP A MINIMUM OF 3 FT., ALL AT NO ADDITIONAL COST.
- 2) FOR INSTALLATIONS ON INTACT BEDROCK, OMIT THIS LAYER.
- (3) OVER-EXCAVATION BENEATH TAPERS IS NOT PERMITTED UNLESS REQUIRED BY OSHA. (TYP.)
- (4) USE THERMOPLASTIC PIPE TABLE FOR TRENCH WIDTHS FOR THERMOPLASTIC PIPES WITH MORE THAN 10 FT. OF FILL OVER THE PIPE.
- (5) MAXIMUM EMBANKMENT PARTICLE SIZE WITHIN 2 FT. OF PIPE IS 3" FOR METAL PIPES AND 1" FOR THERMOPLASTIC PIPES.



STANDARD PLAN 5-297.440 1 OF 1 **APPROVED:** 01-18-2019 REVISED:

STATE DESIGN ENGINEER

STANDARD CULVERT BEDDING FOR FLEXIBLE PIPE (WITHOUT TREATMENTS)

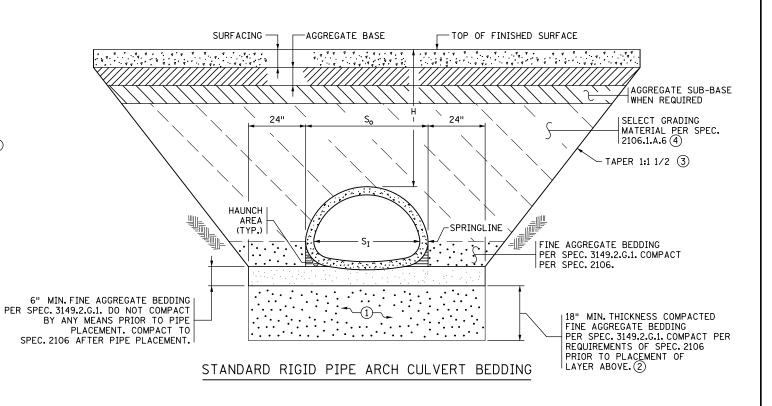
REVISION: APPROVED, JANUARY 18, 2019 Western Kum

S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 30 OF 120 SHEETS

-AGGREGATE BASE

SURFACING -

TOP OF FINISHED SURFACE



- = INSIDE DIAMETER OF ROUND PIPE (INCHES). = OUTSIDE DIAMETER OF ROUND PIPE (INCHES). = INSIDE SPAN OF PIPE-ARCH (INCHES).
- = OUTSIDE SPAN OF PIPE-ARCH (INCHES).
- = FILL COVER HEIGHT OVER PIPE (FEET). = UNDISTURBED SOIL

= COMPACTED BEDDING



LOOSE BEDDING, COMPACTED AFTER PIPE PLACEMENT

#### CONSTRUCTION SEQUENCE

- 1. PLACE AND COMPACT 18" OF FINE AGGREGATE BEDDING TO THE REQUIREMENTS OF SPEC. 2106.
- 2. LOOSELY PLACE 6" OF FINE AGGREGATE BEDDING MATERIAL (SPEC. 3149.2.G.1) TO GRADE. DO NOT COMPACT PRIOR TO PIPE PLACEMENT.
- 3. FOR PIPES WITH BELL, REMOVE MATERIAL IN BELL AREA PRIOR TO PLACEMENT.
- 4. FURNISH AND INSTALL PIPE TO GRADE.
- 5. AFTER PLACEMENT OF THE PIPE, PLACE ADDITIONAL BEDDING AND COMPACT THE FULL LENGTH ON BOTH SIDES OF THE PIPE UNDERNEATH THE HAUNCH AREA BY FIRST SHOVEL SLICING (MANUALLY SHOVE THE BLADE END OF A SHOVEL AT AN ANGLE DOWN THE ENTIRE LENGTH OF THE PIPE IN THE HAUNCHH AREA) THEN COMPACT THE HAUNCH AT AN ANGLE USING A POWERED MECHANICAL OR PNEUMATIC DEVICE (I.E. POLE TAMPER, JUMPING JACK, OR SIMILAR),
- 6. COMPACT THE REMAINING MATERIAL OUTSIDE THE HAUNCH AREA TO THE REQUIREMENTS OF SPEC. 2106 ENSURING THAT THE ENTIRE LENGTH OF PIPE IS SUPPORTED UNIFORMLY BY BEDDING.
- 7. PLACE AND COMPACT BACKFILL EVENLY AND SIMULTANEOUSLY IN 6" LIFTS ON EACH SIDE OF THE PIPE UP TO THE SPRINGLINE WHEN COMPACTED.
- 8. COMPLETE REMAINING BACKFILL.

# NOTES

STANDARD BEDDING FOR RIGID PIPE CULVERTS WITHOUT TREATMENTS.

RIGID PIPE INCLUDES CONCRETE.

ENTRANCE CULVERTS (FIELD AND DRIVEWAY CULVERTS) DO NOT NEED BEDDING UNLESS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS.

UNLESS OTHERWISE NOTED IN THE PLAN, BEDDING QUANTITIES ARE COMPUTED FOR THE FULL LENGTH OF THE PIPE AND APRON, AND WILL NOT BE ADJUSTED FOR CHANGES TO MEET OSHA REQUIREMENTS.

WHEN RIPRAP IS REQUIRED AT THE APRON END, SEE STANDARD PLATE OR PLAN FOR RIPRAP INSTALLATION AND QUANTITIES. FOR APRONS WITHOUT RIPRAP PLACE 6" MIN.FINE AGGREGATE BEDDING UNDER APRONS. USE A TRENCH WIDTH EQUAL TO THE PIPE TRENCH WIDTH.

CONTRACT PAY ITEM FOR FINE AGGREGATE BEDDING INCLUDES THE COST OF EXCAVATION, PLACEMENT AND COMPACTION.

EXCAVATION AND BACKFILL WITH SELECT GRADING MATERIAL ARE NOT TABULATED SEPARATELY BUT ARE INCLUDED IN THE CONTRACT UNIT PRICE OF THE RELEVANT CULVERT PAY ITEM.

EXCAVATE & CONSTRUCT ALL TRENCHES AND SLOPES PER OSHA REQUIREMENTS.

ALL SLOPES SHOWN AS (V): (H).

STATE DESIGN ENGINEER

PIPE SIZE IS BASED ON THE NOMINAL INSIDE DIAMETER OR SPAN.

PROTECT ALL PIPE DURING CONSTRUCTION PER SPEC. 2501.

PLACE MULTIPLE PIPE CULVERTS WITH A CLEARANCE OF 24 INCHES OR GREATER BETWEEN STRINGS OF PIPE.

- ① IF APPROVED BY THE ENGINEER, IN WET CONDITIONS THE CONTRACTOR MAY SUBSTITUTE 18" OF COARSE FILTER AGGREGATE PER SPEC. 3149.2.H COMPACTED TO THE QUALITY COMPACTION REQUIREMENTS OF SPEC. 2106. WRAP WITH GEOTEXTILE FABRIC TYPE IV PER SPEC. 3733. SEAM ALL FABRIC SIDES AND ENDS PER SPEC. TABLE 3733-1 INCLUDING FOOTNOTE (e) OR OVERLAP A MINIMUM OF 3 FT., ALL AT NO ADDITIONAL COST.
- 2 FOR INSTALLATIONS ON INTACT BEDROCK, OMIT THIS LAYER.
- 3 OVER-EXCAVATION BENEATH TAPERS IS NOT PERMITTED UNLESS REQUIRED BY OSHA. (TYP.)
- (4) MAXIMUM EMBANKMENT PARTICLE SIZE WITHIN 2 FT. OF RIGID PIPE IS 3".

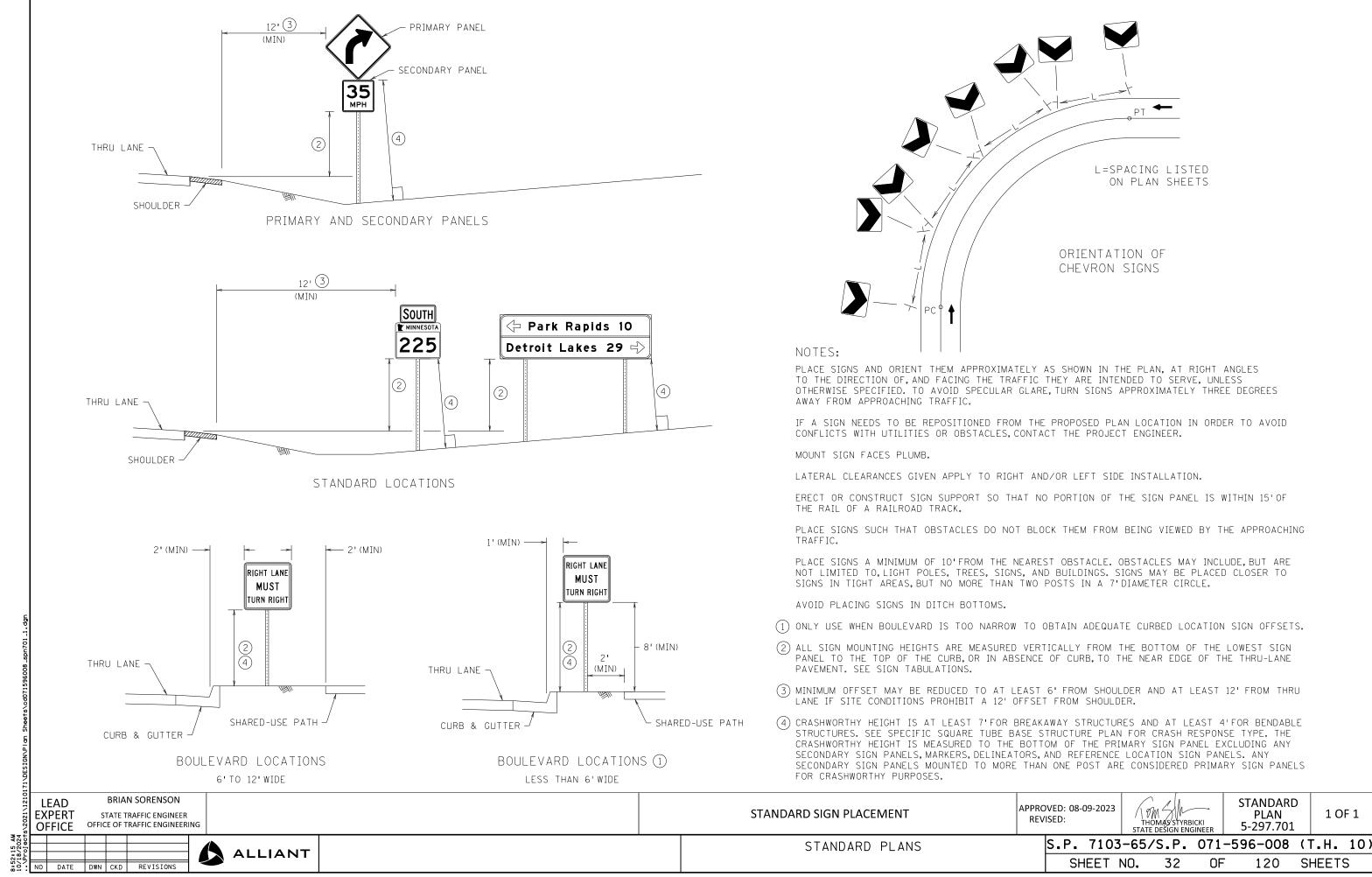
DEPARTMENT OF TRANSPORTATION

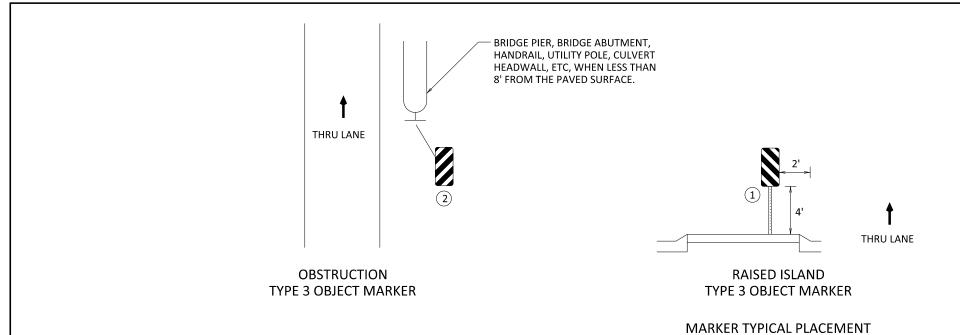
STANDARD PLAN 5-297.441 1 OF 1 **APPROVED:** 01-18-2019

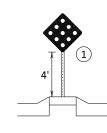
STANDARD CULVERT BEDDING FOR RIGID PIPE (WITHOUT TREATMENTS)

APPROVED, JANUARY 18, 2019 Western Kum

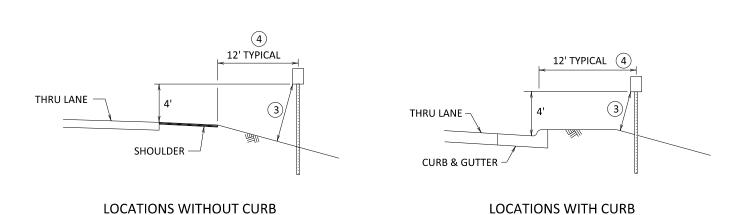
S.P. 071-596-008/S.P. 7103-65 (T.H. 10) SHEET NO. 31 OF 120 SHEETS







RAISED ISLAND TYPE 1 OBJECT MARKER



THRU LANE

SHOULDER

**POST STRIP** 

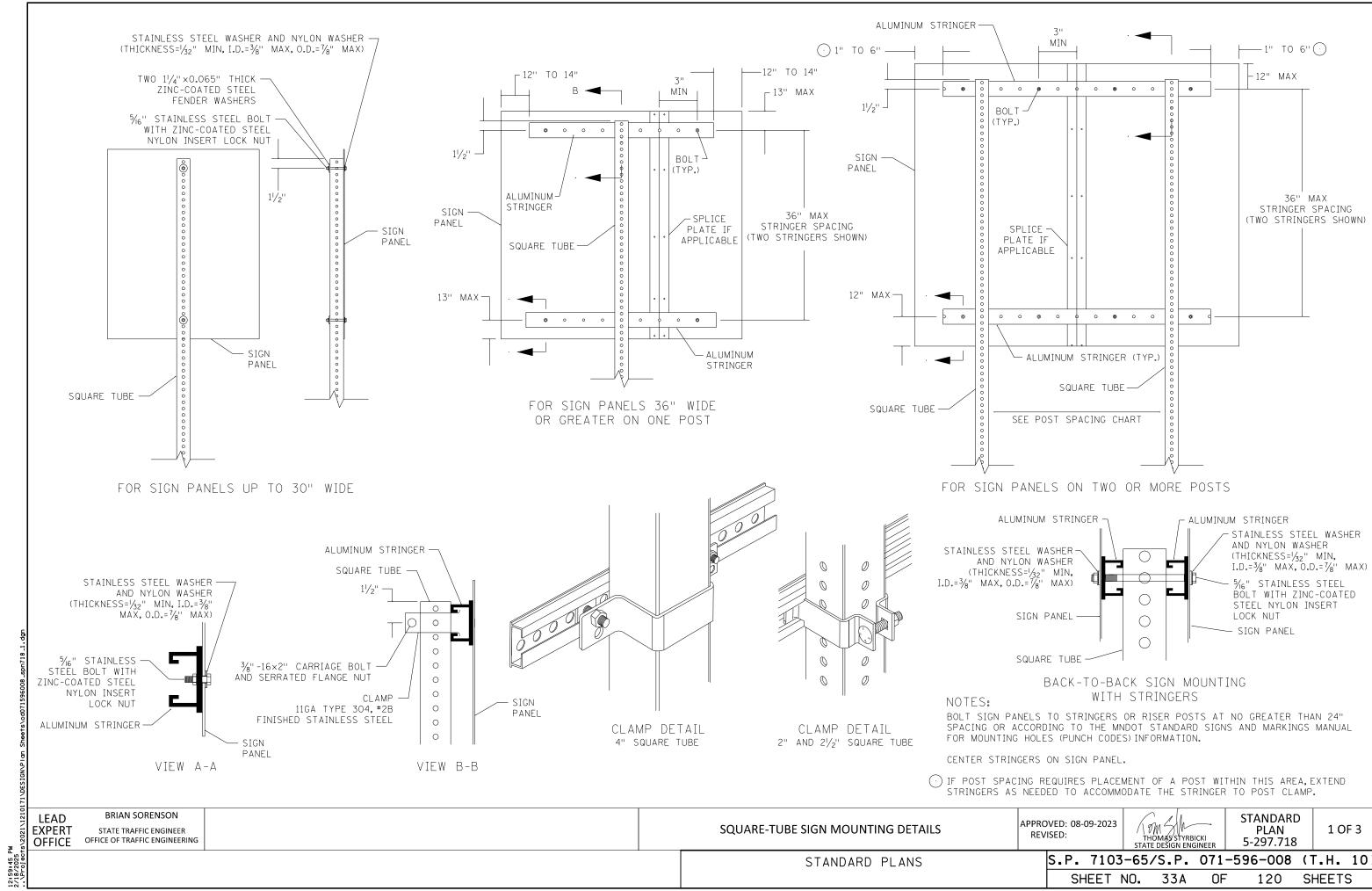
DELINEATOR TYPICAL PLACEMENT

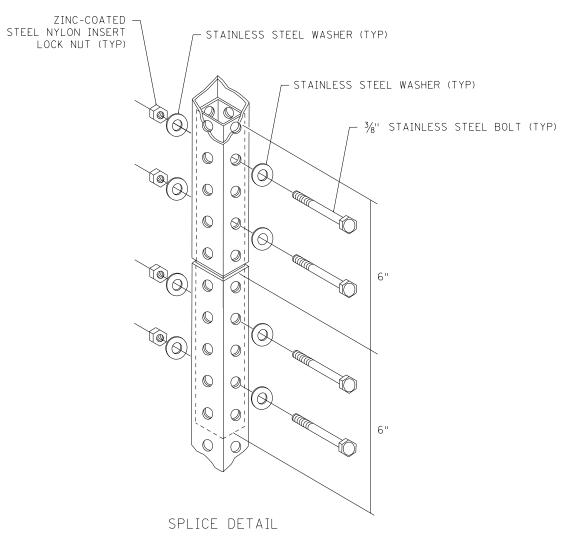
# NOTES:

FOR DELINEATOR OFFSETS AT RAMP GORES, SEE STANDARD PLAN 5-297.703.

- 1) PLACE MARKER AS CLOSE TO THE BEGINNING OF MEDIAN AS POSSIBLE.
- (2) PLACE THE EDGE OF THE OBJECT MARKER THAT IS CLOSEST TO THE ROAD USER IN LINE WITH THE CLOSEST EDGE OF THE OBSTRUCTION. ANGLE THE STRIPES DOWNWARD TOWARDS THE SIDE TRAFFIC IS TO PASS THE OBSTRUCTION.
- 3 THE CRASHWORTHY HEIGHT FROM THE GROUND TO ANY PORTION OF THE SIGN PANEL IS AT LEAST 7' FOR BREAKAWAY STRUCTURES AND AT LEAST 4' FOR BENDABLE STRUCTURES. SEE SPECIFIC SQUARE TUBE BASE STRUCTURE PLAN FOR CRASH RESPONSE TYPE
- 4 ADJUST OFFSET TO MATCH OTHER SIGN OFFSETS ALONG ROADWAY CORRIDOR, BUT NOT MORE THAN 12' NOR LESS THAN 2'

9	N	IOT MORE THAN 12' NOR LESS THAN 2'.
LEAD BRIAN SORENSON EXPERT STATE TRAFFIC ENGINEER OFFICE OFFICE OF TRAFFIC ENGINEERING	DELINEATOR AND MARKER PLACEMENT	APPROVED: 06-04-2024 REVISED: STANDARD PLAN 1 OF 1 5-297.702
ROSE OF THE CONTROL O	STANDARD PLANS	S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 33 OF 120 SHEETS





PANEL		SQUAF	RE TUE	BE POS	ST SP.	ACING	
WIDTH	2 POSTS	3 POSTS	4 POSTS	5 POSTS	6 POSTS	7 POSTS	8 POSTS
(IN)							
42	15						
48	21						
54	30						
60	36						
66	36						
72	42						
78	42						
84	48						
90	48	42					
96	48	42					
102	54	42					
108	54	42					
114	60	42					
120	60	48					
126	66	48					
132	66	48	42				
138	72	48	42				
144	72	48	42				
150	78	54	42				
156	78	54	42				
162	84	54	42				
168	84	60	48				
174	90	60	48	42			
180	90	60	48	42			
186	96	66	48	42			
192	96	66	48	42			
198	102	66	54	42			
204	102	72	54	42			
210	108	72	54	42			
216	108	72	54	48	42		
222	114	78	60	48	42		
228	114	78	60	48	42		
234	120	78	60	48	42		
240	120	84	60	48	42		
246	120	84	66	54	42		
252		84	66	54	42		
258		90	66	54	42	42	
264		90	66	54	48	42	
270		90	72	54	48	42	
276		96	72	60	48	42	
282		96	72	60	48	42	
288		96	72	60	48	42	
294		102	78	60	54	42	
300		102	78	60	54	42	42
306		102	78	66	54	42	42
312		102	78	66	54	48	42
		108			54		
318 324			84	66	54	48	42
		108		66		48	42
330		114	84	66	60	48	42
336		114	84	72	60	48	42

DISTANCES ARE CENTER-TO-CENTER OF POSTS

# NOTES:

NO MORE THAN ONE SPLICE PER POST.

WHEN USED, THE SPLICE MUST BE PLACED AT LEAST 8' ABOVE GROUND. THE PREFERRED PLACEMENT LOCATION IS BEHIND THE SIGN PANEL.

INTERIOR POST STUD SHALL BE ONE SIZE SMALLER FOR TIGHT FIT. IF RISER POST IS  $2\frac{1}{2}$ ", INTERIOR POST IS  $2\frac{3}{6}$ ". IF RISER POST IS 2", INTERIOR POST IS  $1\frac{3}{4}$ ".

LEAD

BRIAN SORENSON

OFFICE STATE TRAFFIC ENGINEER OFFICE OF TRAFFIC ENGINEERING

SQUARE-TUBE SIGN MOUNTING DETAILS

APPROVED: 08-09-2023 REVISED:

THOMAS STYRBICKI STATE DESIGN ENGINEER

STANDARD PLAN 5-297.718

2 OF 3

STANDARD PLANS

S.P. 7103-65/S.P. 071-596-008 (T.H. 10)

SHEETS

SHEET NO.

33C

120

LEAD

**EXPERT** 

OFFICE

BRIAN SORENSON

STATE TRAFFIC ENGINEER

OFFICE OF TRAFFIC ENGINEERING

SHEET NO. 33D 120 SHEETS

APPROVED: 08-09-2023

FOR SINGLE-POST INSTALLATIONS, THE STRINGERS MUST EXTEND 1" BEYOND THE BOLT HOLES. FOR MULTI-POST INSTALLATIONS, THE STRINGERS MUST EXTEND EITHER 1" BEYOND THE BOLT

DETERMINE THE NUMBER OF POSTS AND THE POST SPACING BY THE TOTAL WIDTH AND HEIGHT

HOLES OR 3" BEYOND THE OUTER POST CENTERLINE, WHICHEVER IS GREATER.

SEE STANDARD PLAN 5-297.718 FOR ADDITIONAL MOUNTING DETAILS.

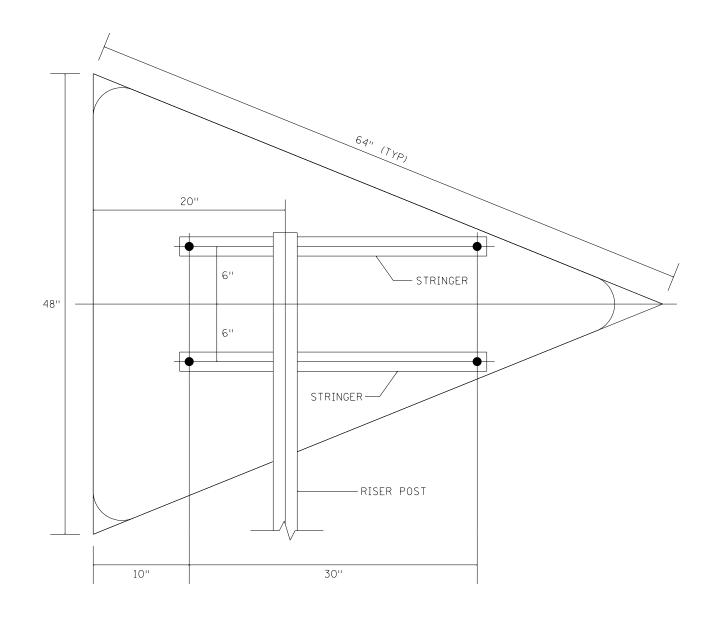
THOMAS STYRBICKI STATE DESIGN ENGINEER

STANDARD PLAN 1 OF 1 5-297.719

STANDARD PLANS

OF THE ASSEMBLIES.

S.P. 7103-65/S.P. 071-596-008 (T.H. 10)



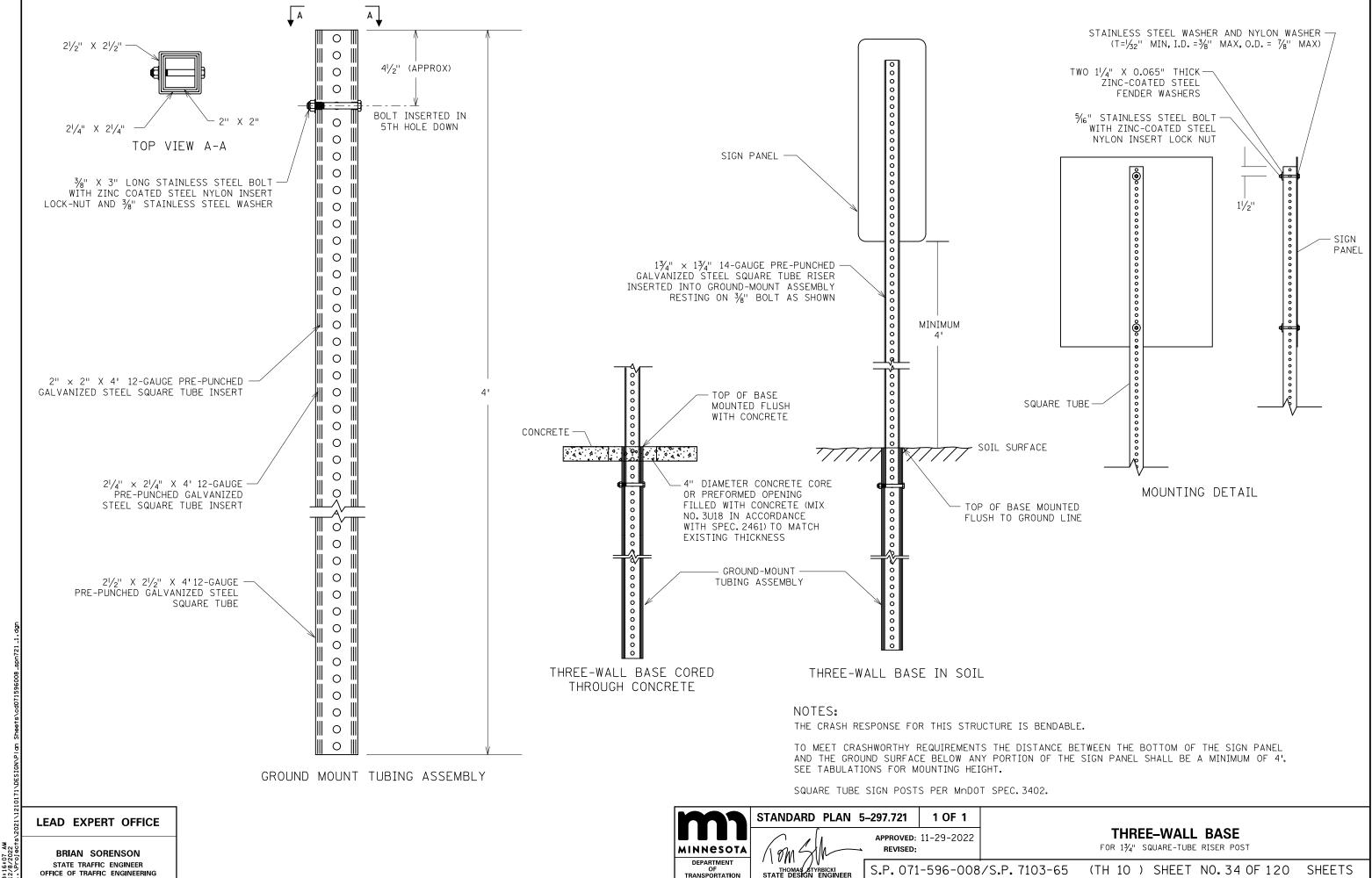
NO PASSING ZONE MOUNTING DETAIL

NOTES:

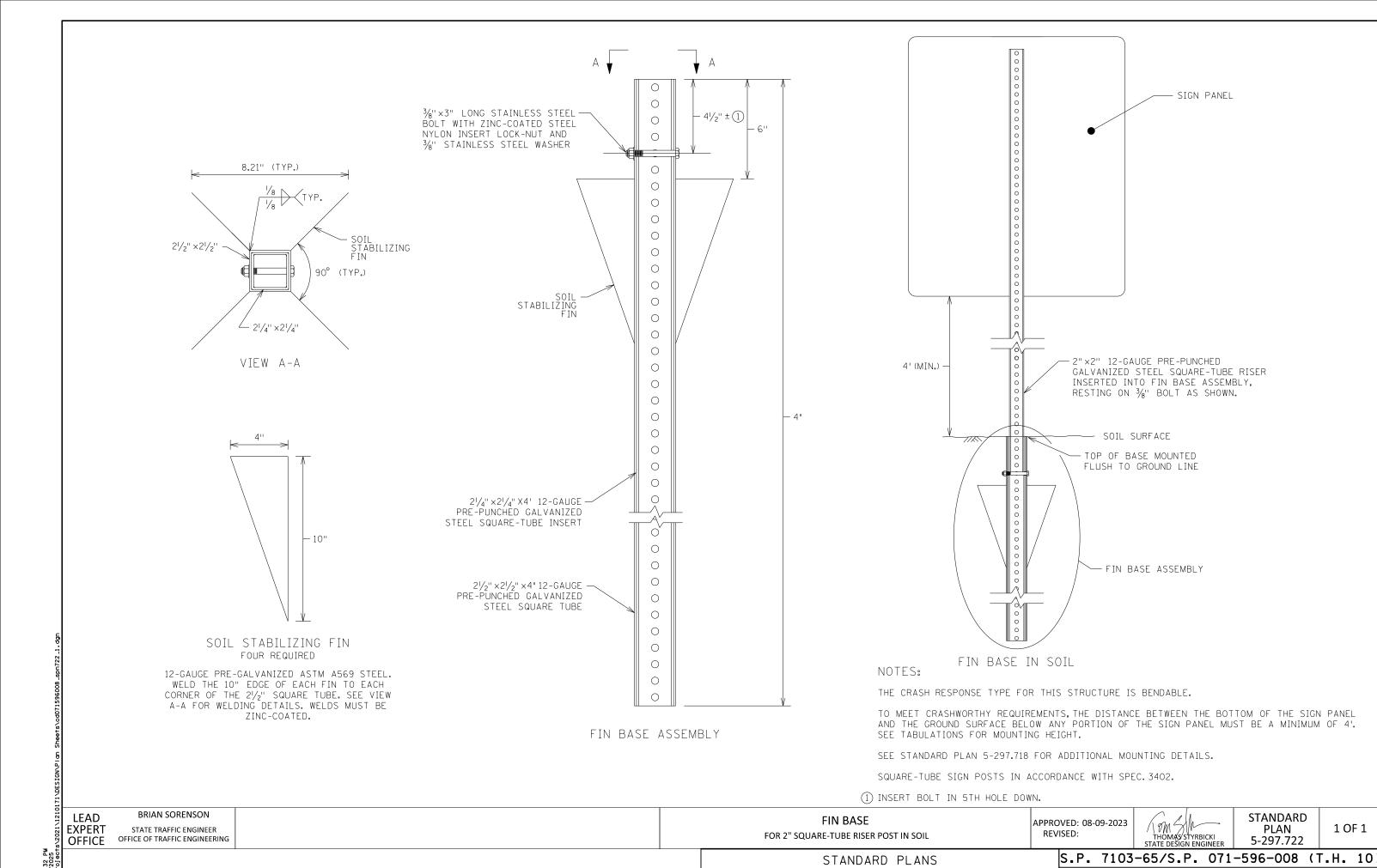
STRINGER SPACING TO MATCH VERTICAL PUNCHING SPACING FOR SIGN PANELS.

SEE STANDARD PLAN 5-297.718 FOR ADDITIONAL MOUNTING DETAILS.

17									
1210	LEAD	BRIAN SORENSON		A DDD O	VED: 08-09-202	3 61	./	STANDARD	
021	EXPERT	STATE TRAFFIC ENGINEER	SQUARE TUBE NO PASSING ZONE SIGN MOUNTING DETAILS	REVI		J /\@M\Z	Manage	PLAN	1 OF 1
s\2(	OFFICE	OFFICE OF TRAFFIC ENGINEERING		11.241	<i>525</i> .	STATE DESIG	N ENGINEER	5-297.720	
23 PM 2025 oject			STANDARD PLANS	:	S.P. 710	)3-65/S.I	o. 071	1-596-008	(T.H. 10)
100123 F 1/18/2029					SHEET	NO. 33	E OF	F 120	SHEETS



8:16:07 AM



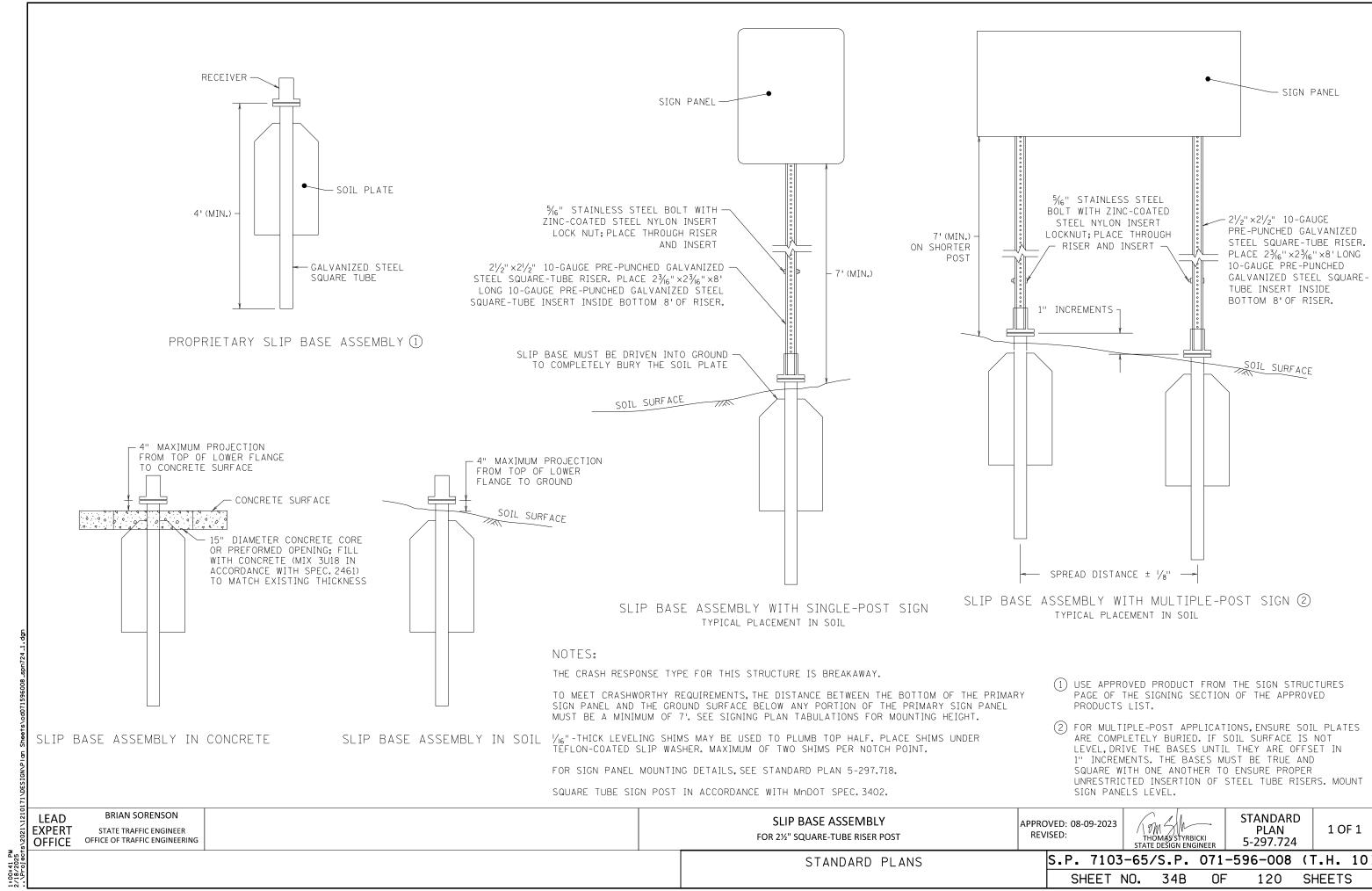
1 OF 1

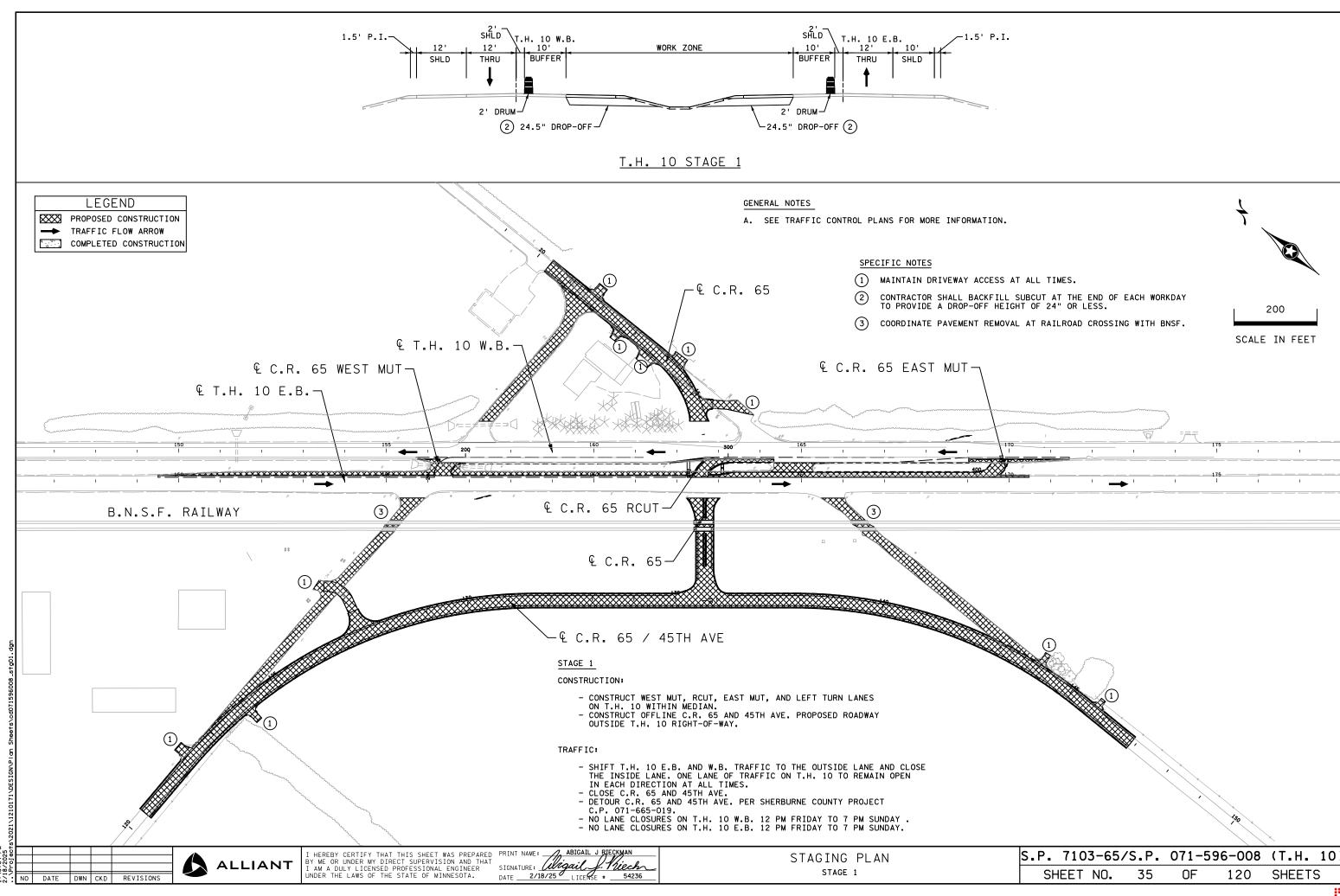
SHEETS

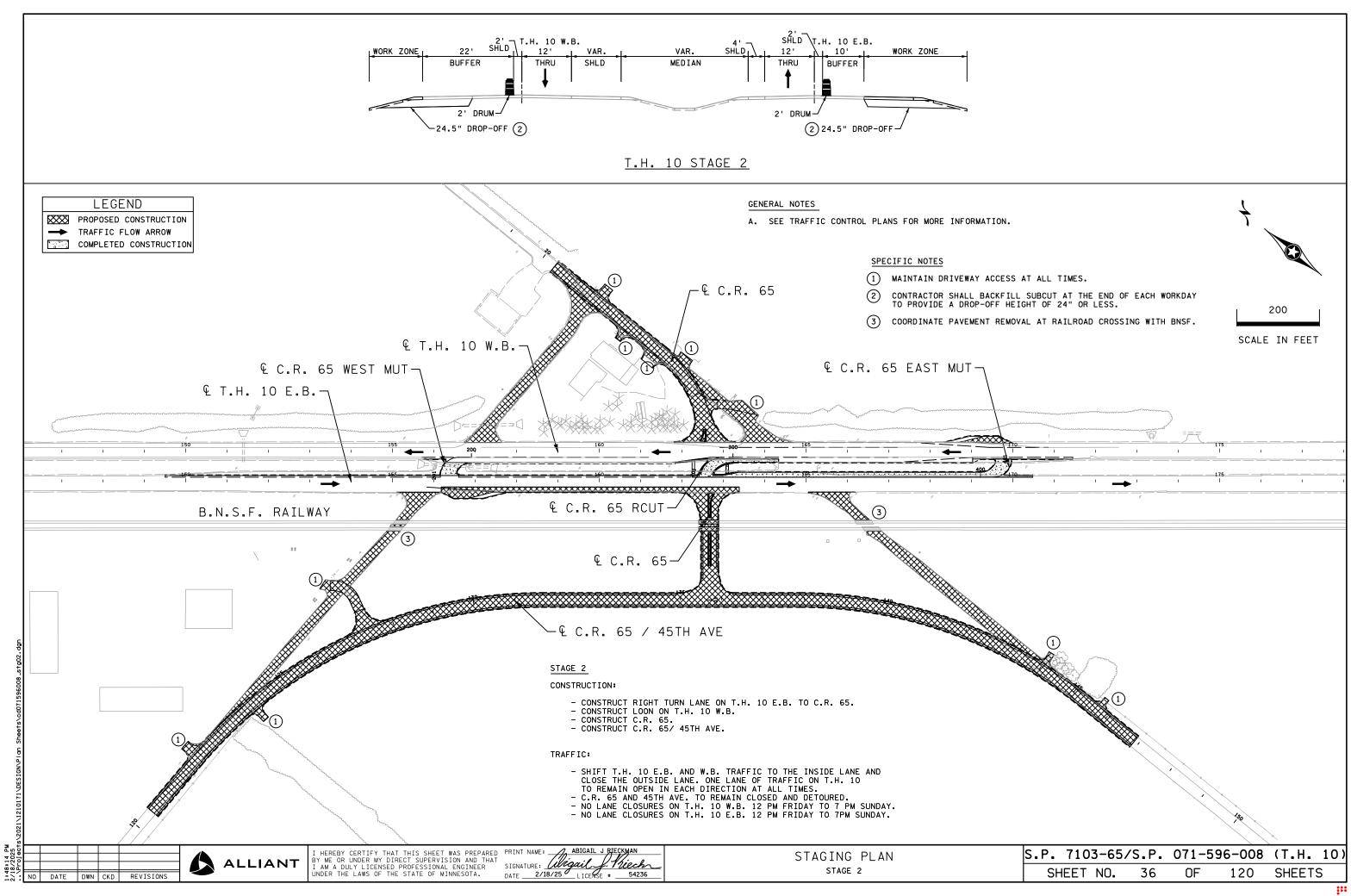
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SHEET NO.

34A







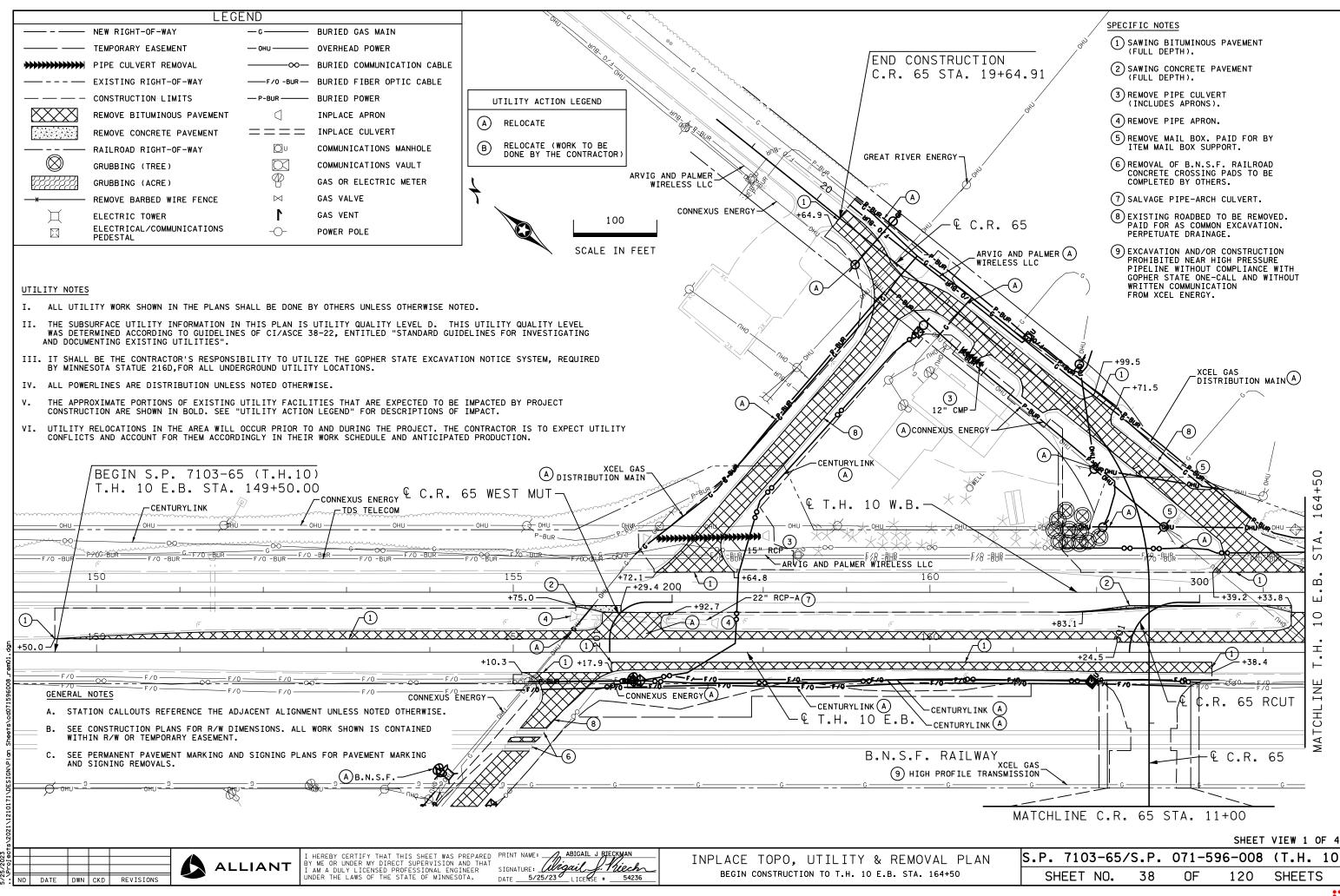
			ALI	SNMENT T	ABULAT:	ION								
POINT	DOINT	CTATION		CIRCULAR (	CURVE DATA	4		COORD	INATES	A 771411T11				
NUMBER	POINT	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	х	Υ	- AZIMUTH				
	C.R. 65 (CR65)													
1000														
1001	PC	13+64.105						452,446.0065	293,194.5187	50° 35' 44.00"				
1002	ΡI	15+07.981	51° 14' 36.29" LT	19° 05' 54.94"	300.000'	143.876'	268.310'	452,557.1769	293,285.8496	PI				
1003	СС							452,255.5693	293,426.3240					
1004	PT	16+32.415						452,555.5501	293,429.7161	359° 21' 07.71"				
1005	P0T	21+53.965						452,549.6530	293,951.2321					
			C.R.	.65 W.MU	T <cr6< td=""><td>5WMUT&gt;</td><td></td><td></td><td></td><td></td></cr6<>	5WMUT>								
1100	1100 POT 200+00.000 452,067.9670 293,624.5813													
1101	PC	200+30.813						452,048.4072	293,648.3902	320° 35' 44.00"				
1102	ΡI	200+74.813	90° 00' 00.00" LT	130° 13' 03.65"	44.000'	44.000'	69.115'	452,020.4764	293,682.3883	PI				
1103	СС							452,014.4091	293,620.4594					
1104	PT	200+99.928						451,986.4783	293,654.4575	230° 35' 44.00"				
1105	POT	201+15.928						451,974.1153	293,644.3009					
			C.	.R. 65 RCU	IT <cr6< td=""><td>5RCUT&gt;</td><td></td><td></td><td></td><td></td></cr6<>	5RCUT>								
1200	POT	300+00.000						452,469.7122	293,135.5662					
1201	PC	300+24.093						452,454.4184		320° 35' 44.00"				
1202	PI		90° 00' 00.00" LT	95° 29' 34.68"	60.000'	60.000'	94.248	452,416.3309		PI				
1203	СС							452,408.0573	293,116.0948					
1204	PT	301+18.340						452,369.9699	293,162.4558	230° 35' 44.01"				
			C	.R. 65 E. I	MUT <cf< td=""><td>R65EMU</td><td>Τ&gt;</td><td></td><td></td><td></td></cf<>	R65EMU	Τ>							
1300	P0T	400+00.000						452,812.4923	· ·					
1301	PC	400+31.012						452,832.1782	•					
1302	ΡI	400+75.012	90° 00' 00.00" LT	130° 13' 03.65"	44.000'	44.000'	69.115'	452,860.1090		PI				
1303	. <u>cc</u> _				. – – – –			452,866.1763						
1304	PT	401+00.127						<b>+</b>	292,612.6797	50° 35' 44.00"				
1305	P0T	401+16.127						452,906.4700	292,622.8364					
			C.R. 6	55/45TH A	VE. <cr< td=""><td>65_45A</td><td>VE&gt;</td><td></td><td></td><td></td></cr<>	65_45A	VE>							
1400	P0T	115+00.000						450,365.8899	293,683.0475					
1401	PC	122+14.229						451,080.0559	293,673.5298	90° 45' 48.74"				
1402	ΡI	127+21.025	49° 49' 55.27" RT	5° 15' 06.03"	1,091.000'	506.796'	948.878'	451,586.8068	293,666.7763	PI				
1403	СС	1						451,065.5174	292,582.6267					
1404	PT	131+63.108						451,908.5160	293,275.1831	140° 35' 44.00"				
1405	PC	137+88.895						452,305.7600		140° 35' 44.00"				
1406	PI	141+76.489	39° 06' 59.84" RT	5° 15' 06.03"	1,091.000'	387.593'	744.841	452,551.8005	292,492.1595	PI				
1407	СС	1)						451,462.7613	292,099.0905					
1408	PT	145+33.736						452,553.7476		179° 42' 43.85"				
1409	POT	152+22.521						452,557.2076						

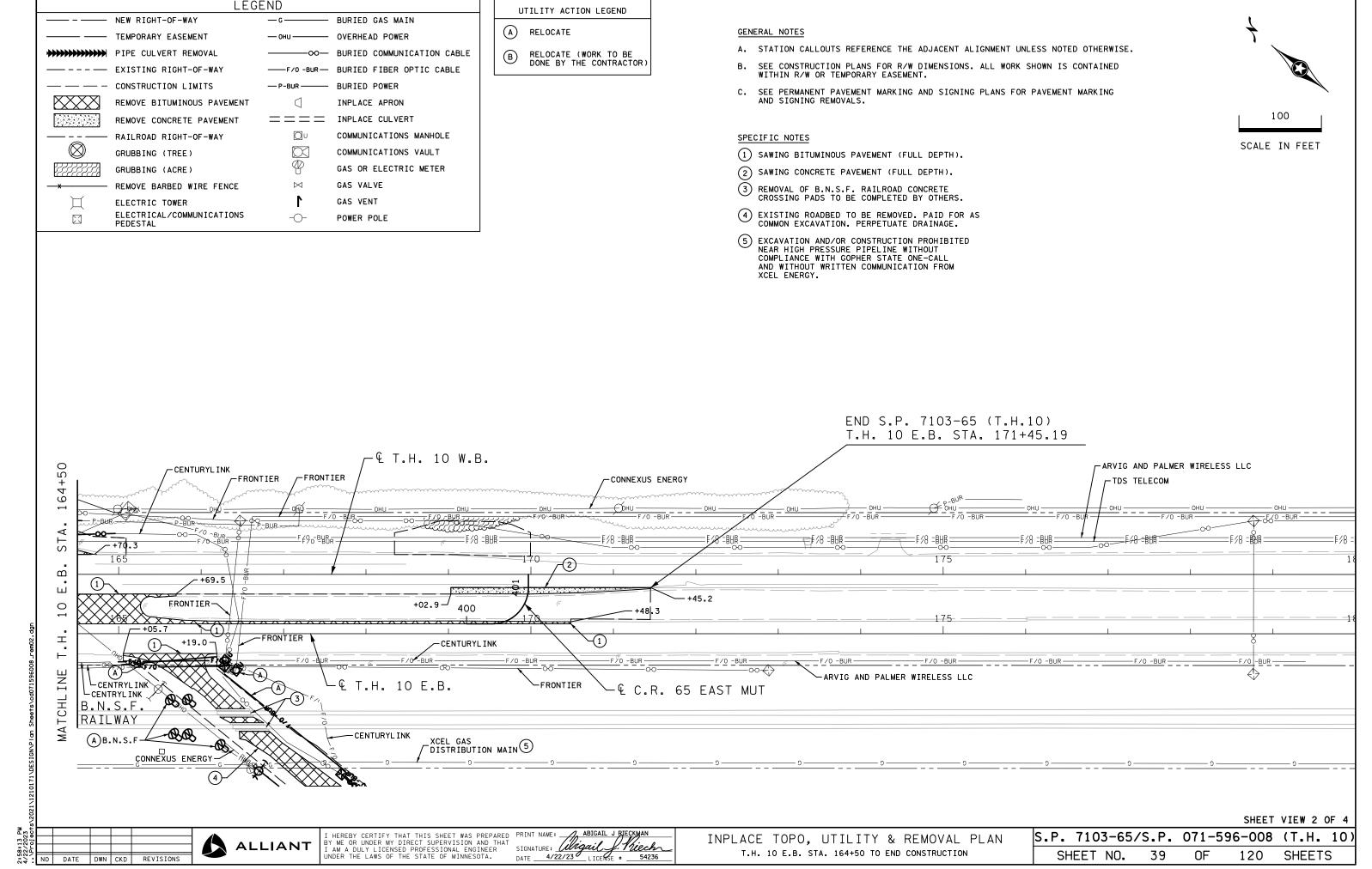
SPECIFIC	NOTES
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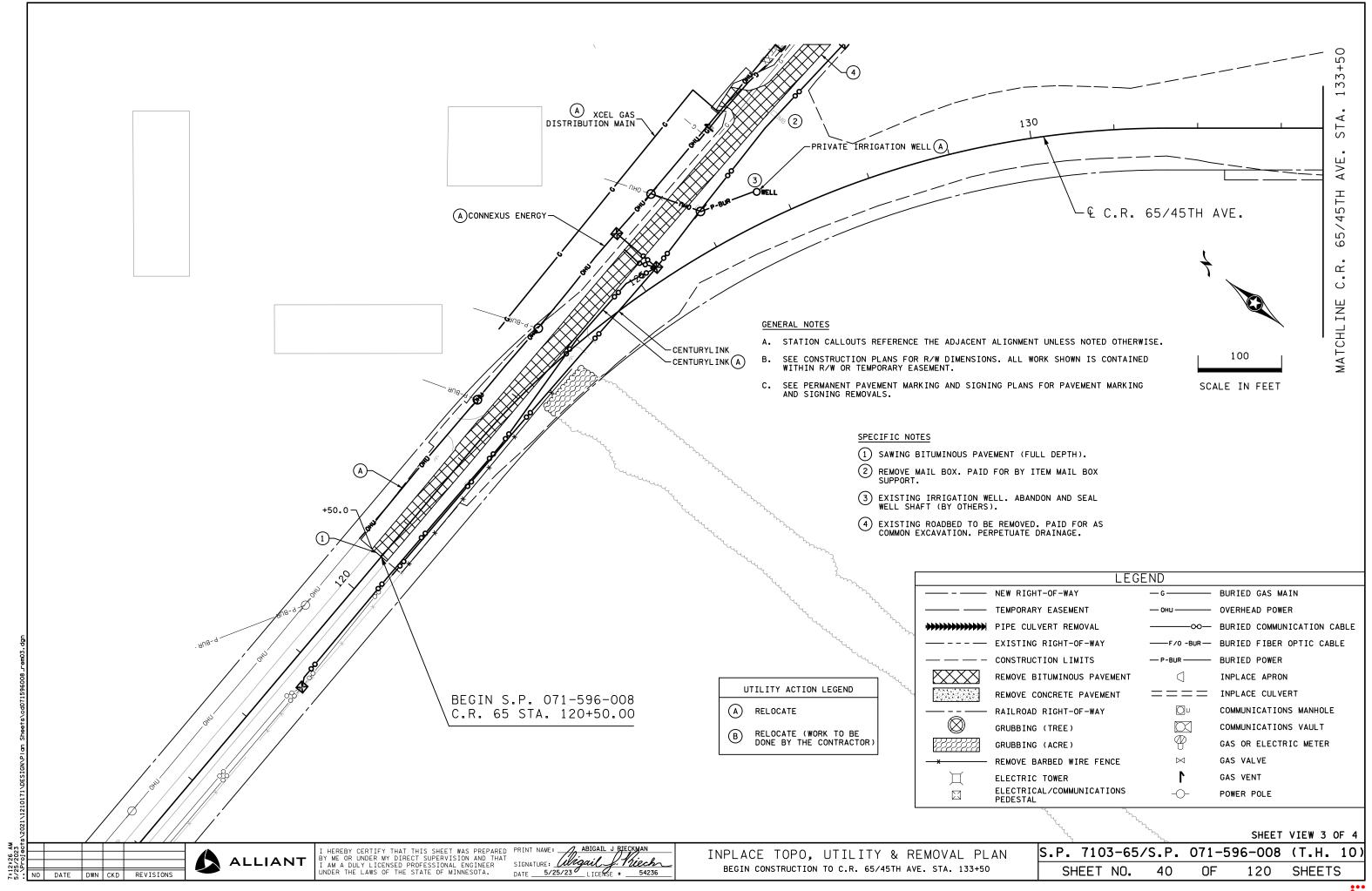
1 ALIGNMENT POINT IS NOT SHOWN ON ALIGNMENT PLAN VIEW.

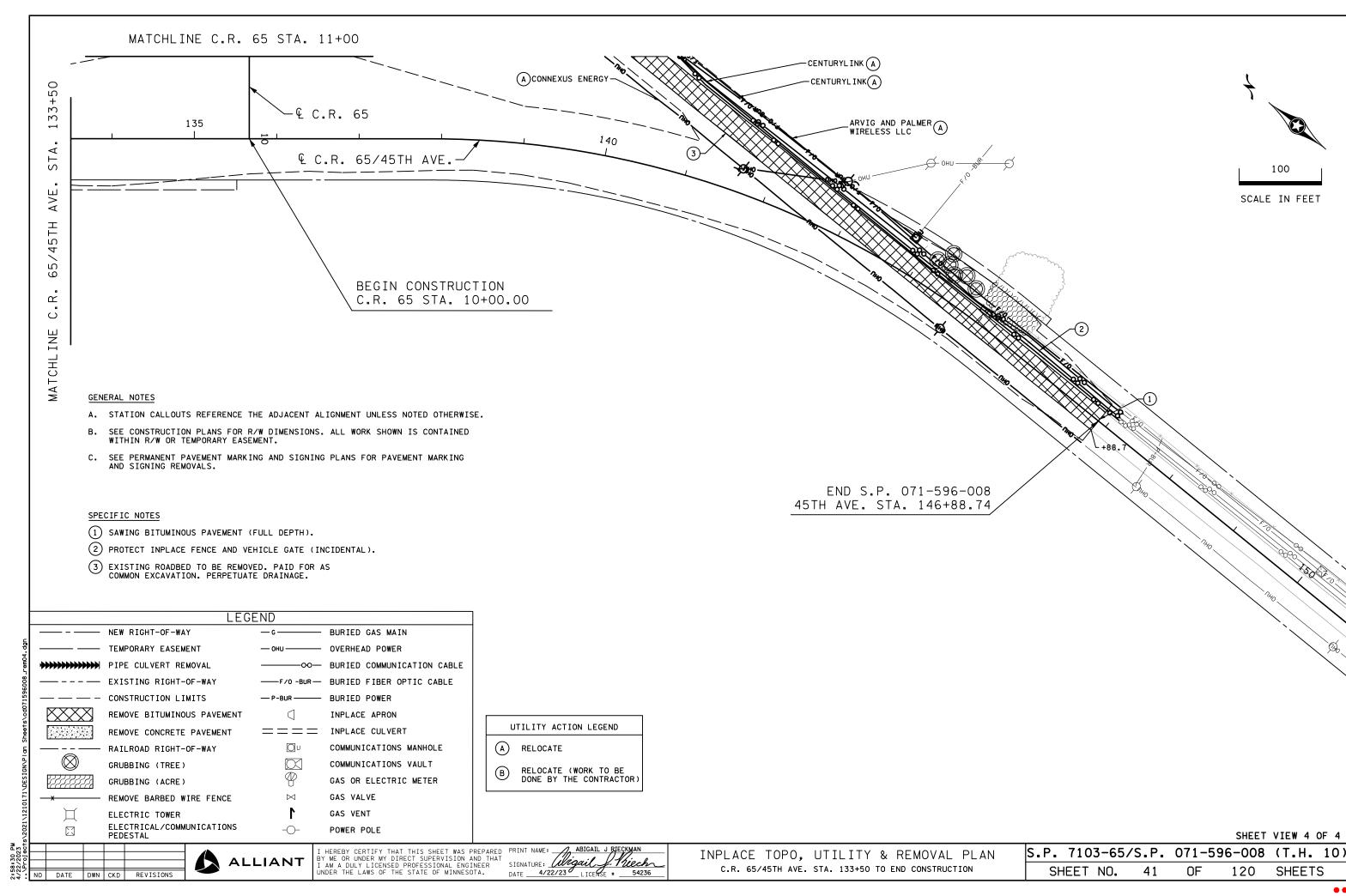
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NUMBER	LOIMI	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	x	Y	AZIMUTH	
				T.H. 10 E.	3. <10EB	>					
2000	POT	100+00.000						448,408.2891	297,982.7386		
2001	POT	124+89.872						449,989.4812	296,059.3832		
2002	POT	148+48.042						451,486.7528	294,237.5319		
2003	POT	189+37.353			. – – – –			454,082.6080	291,077.7857		
2004	POT	1 206+52.113						455,170.6490	289,752.4290		
2005	POT	1 220+95.094						456,086.3477	288,637.2204		
				T.H. 10 W.E	3. <10WB	<b>&gt;</b>	Γ	I	laas aas .=		
2100	POT	100+00.000						<u> </u>	298,028.4346		
2101	POT	102+77.241						<u> </u>	297,814.2733		
2102	POT	124+89.848						<u> </u>	296,105.1068		
2103	POT	130+50.748 1 146+88.037						ļ	295,671.8299		
2104 2105	P0T P0T								294,406.8702 294,283.2408		
2105	POT	1 148+48.037 1 189+37.364						<u> </u>	291,123.4820		
2106	POT	1 206+52.135						<u> </u>	289,798.1168		
2101	PC	1 220+03.057						<u> </u>	288,754.0565	140° 36' 38.00"	
2109	PI	1 220+49.076		0° 19' 50.28"	17.329.0351	46.019'	92.038'		288,718.4907	PI	
2110 . 2110	cc c	①						469,476.3285		<del></del>	
2111	PT	1 220+95.094						<u> </u>	288,683.0805	140° 18' 22.49"	

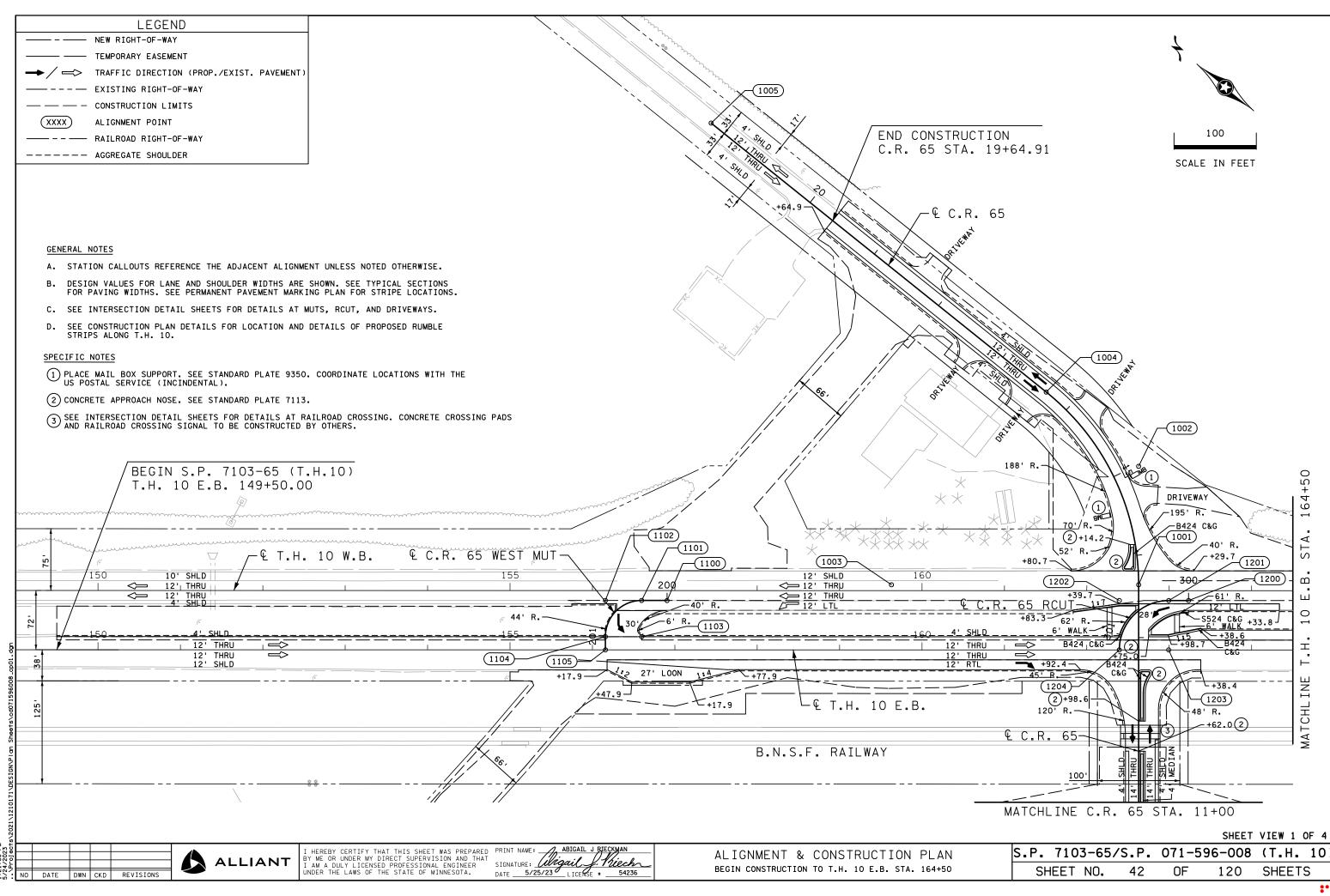
ALIGNMENT TABULATION

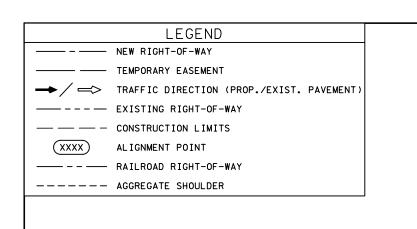










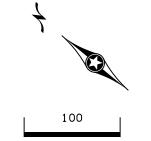


# GENERAL NOTES

- A. STATION CALLOUTS REFERENCE THE ADJACENT ALIGNMENT UNLESS NOTED OTHERWISE.
- B. DESIGN VALUES FOR LANE AND SHOULDER WIDTHS ARE SHOWN. SEE TYPICAL SECTIONS FOR PAVING WIDTHS. SEE PERMANENT PAVEMENT MARKING PLAN FOR STRIPE LOCATIONS.
- C. SEE INTERSECTION DETAIL SHEETS FOR DETAILS AT MUTS, RCUT, AND DRIVEWAYS.
- D. SEE CONSTRUCTION PLAN DETAILS FOR LOCATION AND DETAILS OF PROPOSED RUMBLE STRIPS ALONG T.H. 10.

ALIGNMENT & CONSTRUCTION PLAN

T.H. 10 E.B. STA. 164+50 TO END CONSTRUCTION



SCALE IN FEET

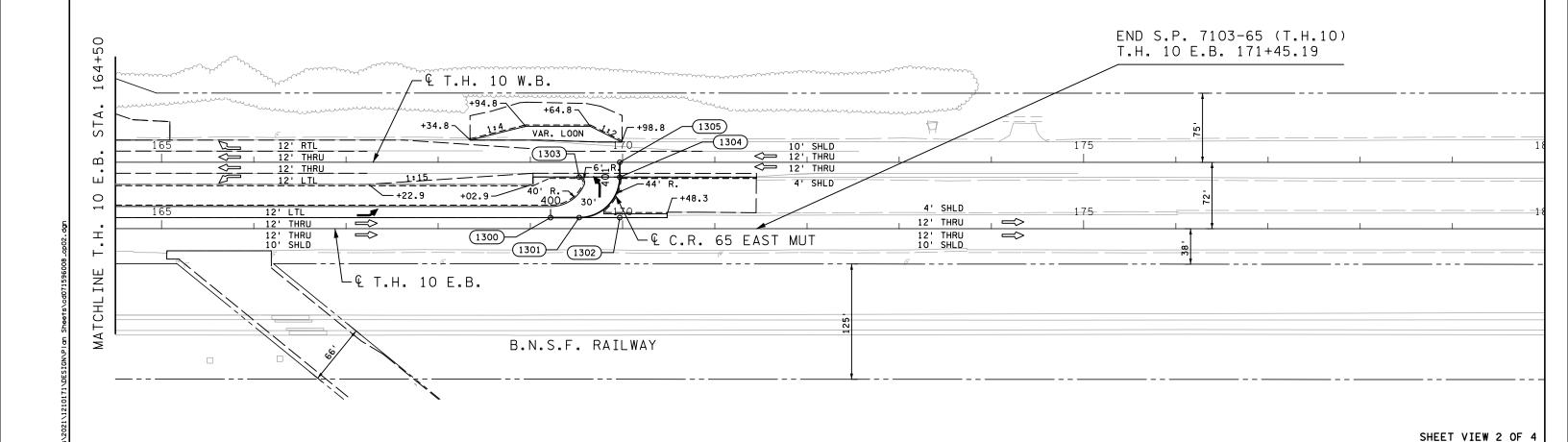
S.P. 7103-65/S.P. 071-596-008 (T.H. 10)

43

SHEETS

120

SHEET NO.



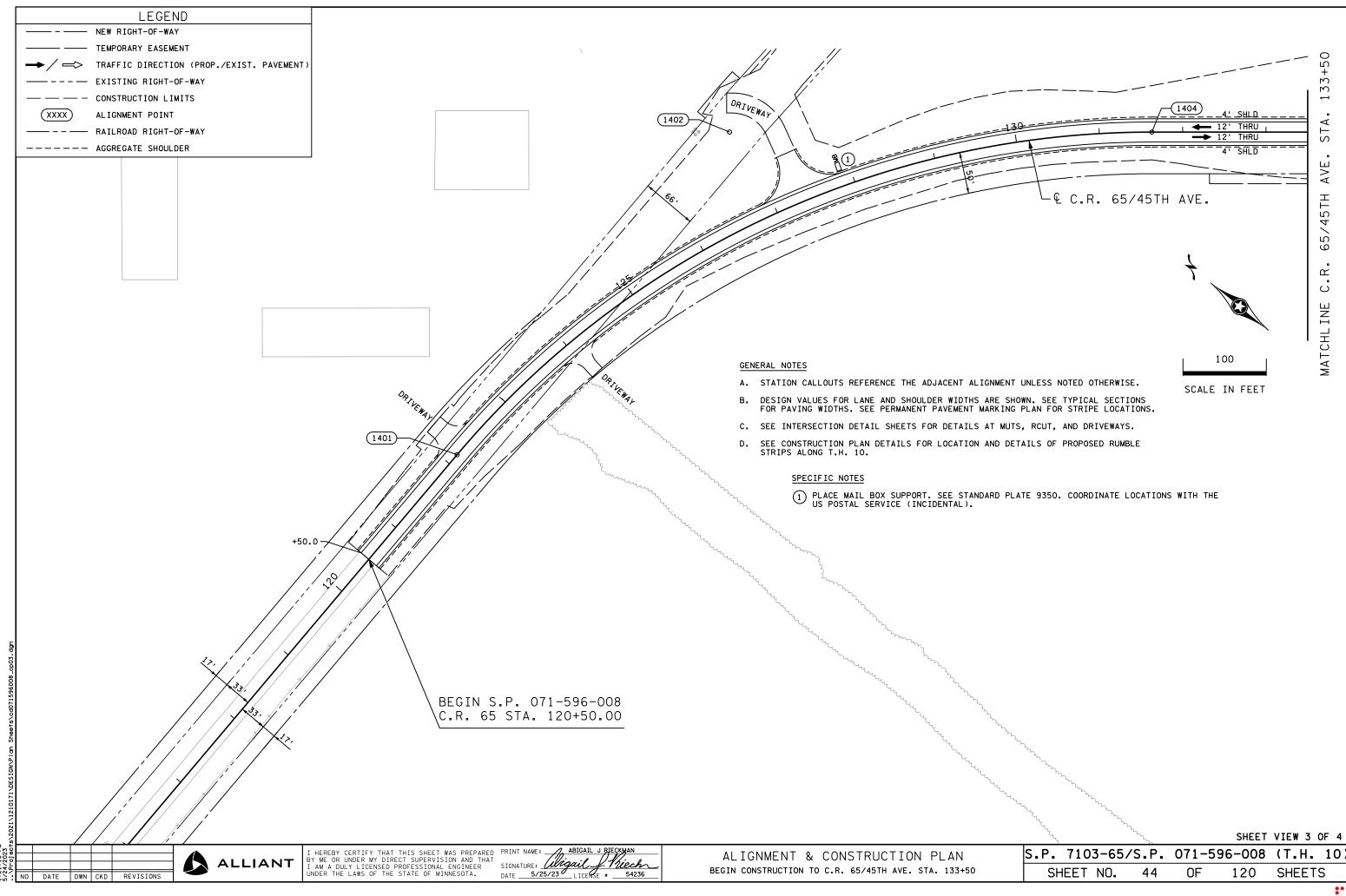
PRINT NAME: ABIGAIL J RIECKMAN
SIGNATURE: Wigail & Vicech
DATE 12/16/22 LICENSE # 54236

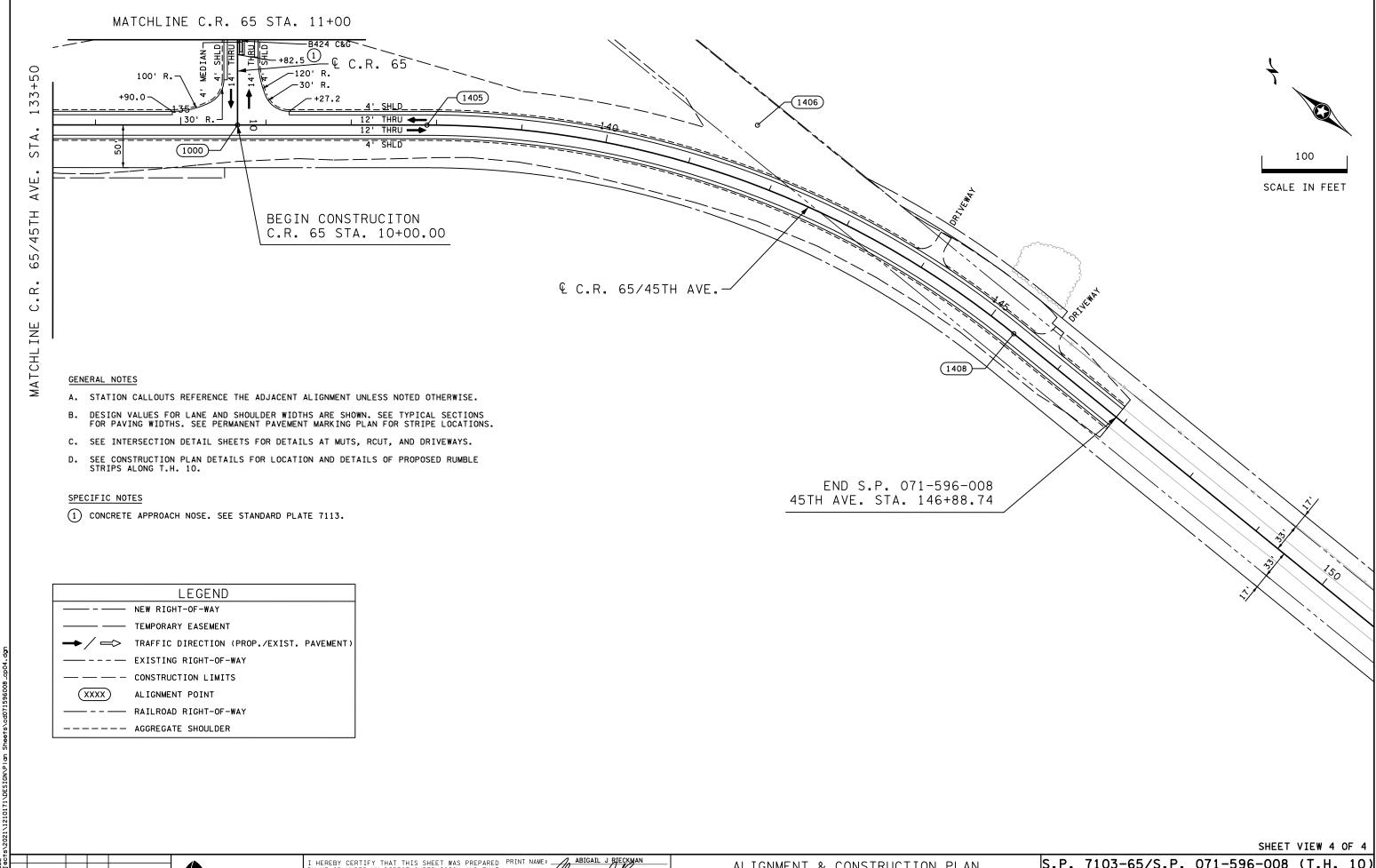
I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED PRINT NAME: \_
BY ME OR UNDER MY DIRECT SUPERVISION AND THAT
I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 12/16

**ALLIANT** 

NO DATE DWN CKD REVISIONS





**ALLIANT** 

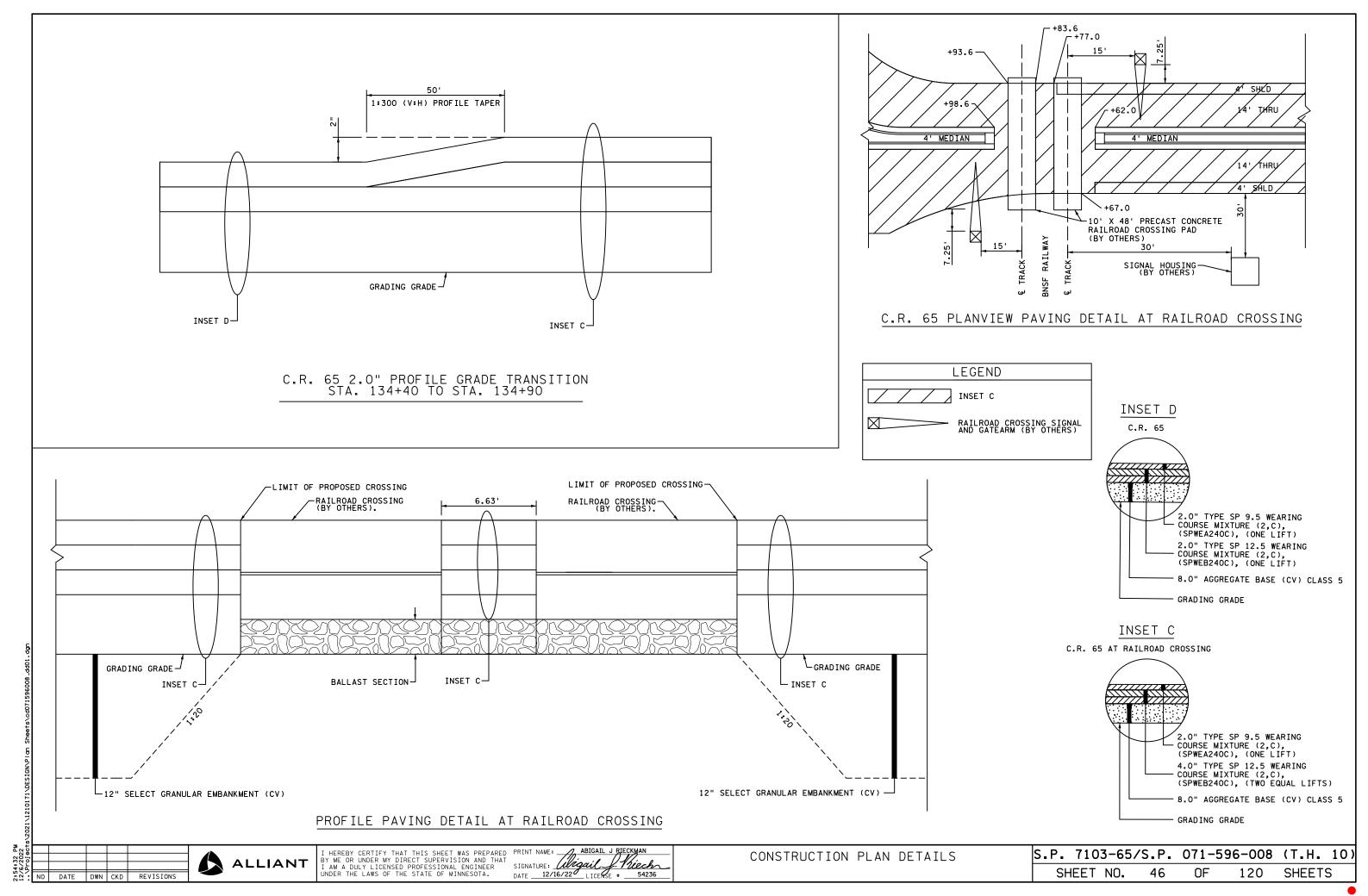
I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

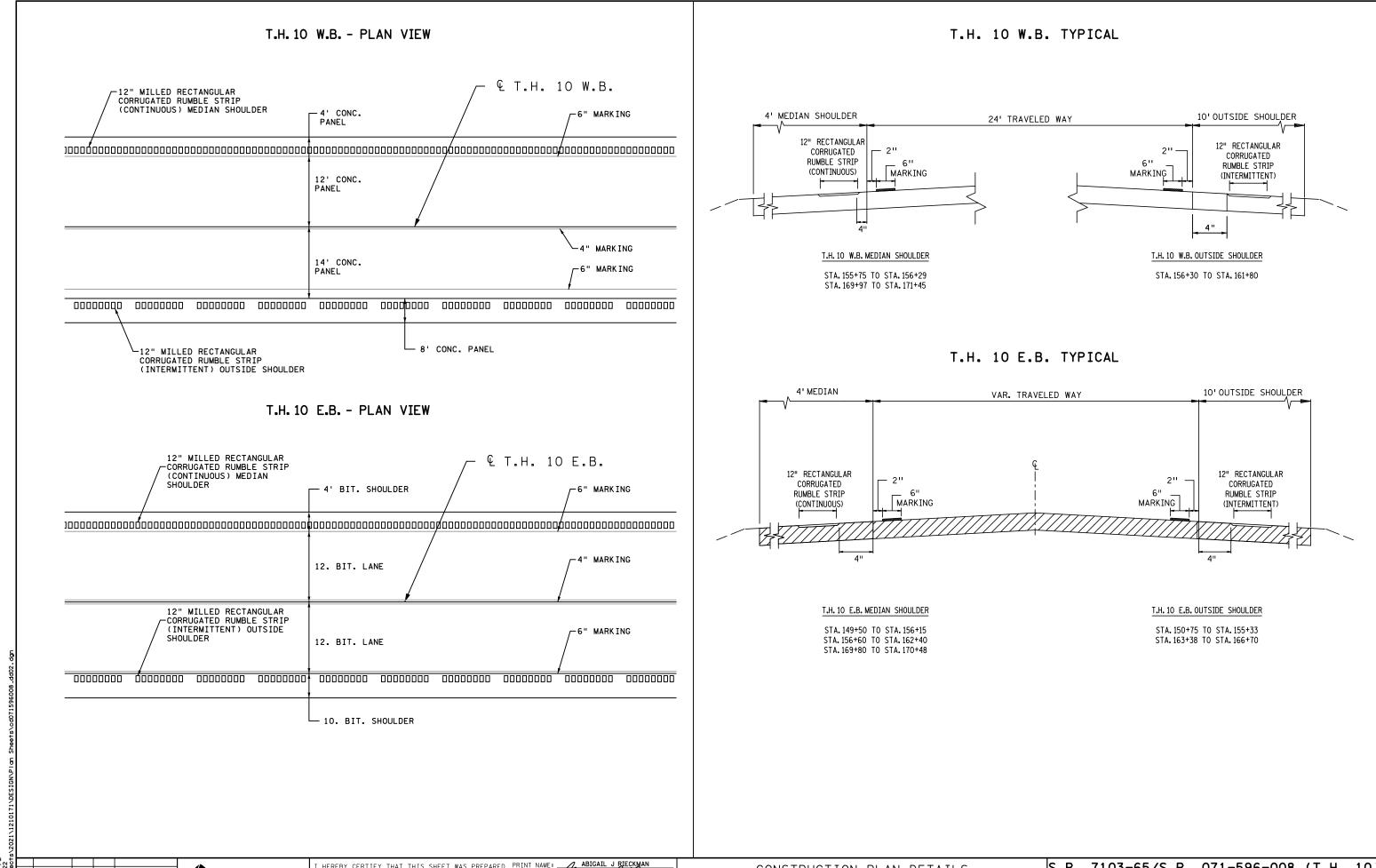
PRINT NAME: ABIGAIL J RIECKMAN

SIGNATURE: Wigail & Niech

DATE 12/16/22 LICENSE # 54236

ALIGNMENT & CONSTRUCTION PLAN C.R. 65/45TH AVE. STA. 133+50 TO END CONSTRUCTION S.P. 7103-65/S.P. 071-596-008 (T.H. 10 SHEET NO. 45 120





2:54:37 PM

DATE DWN CKD REVISIONS

**ALLIANT** 

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: ABIGAIL J RIECKMAN

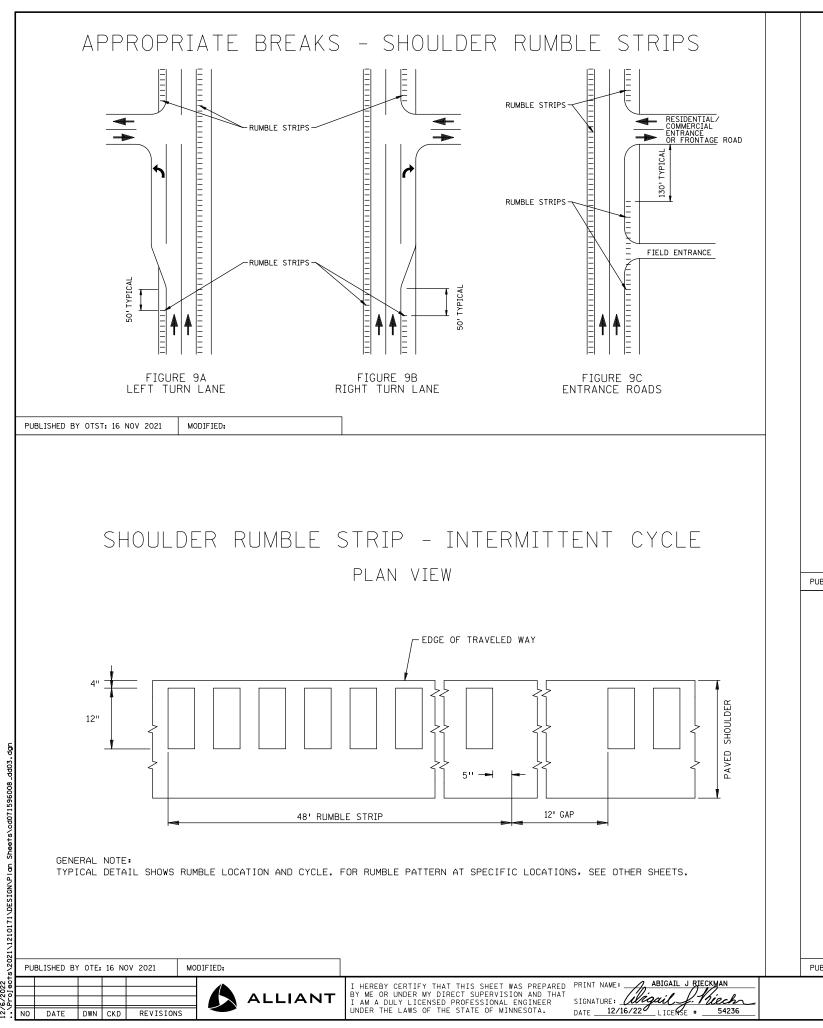
SIGNATURE: Wigail & Viiech

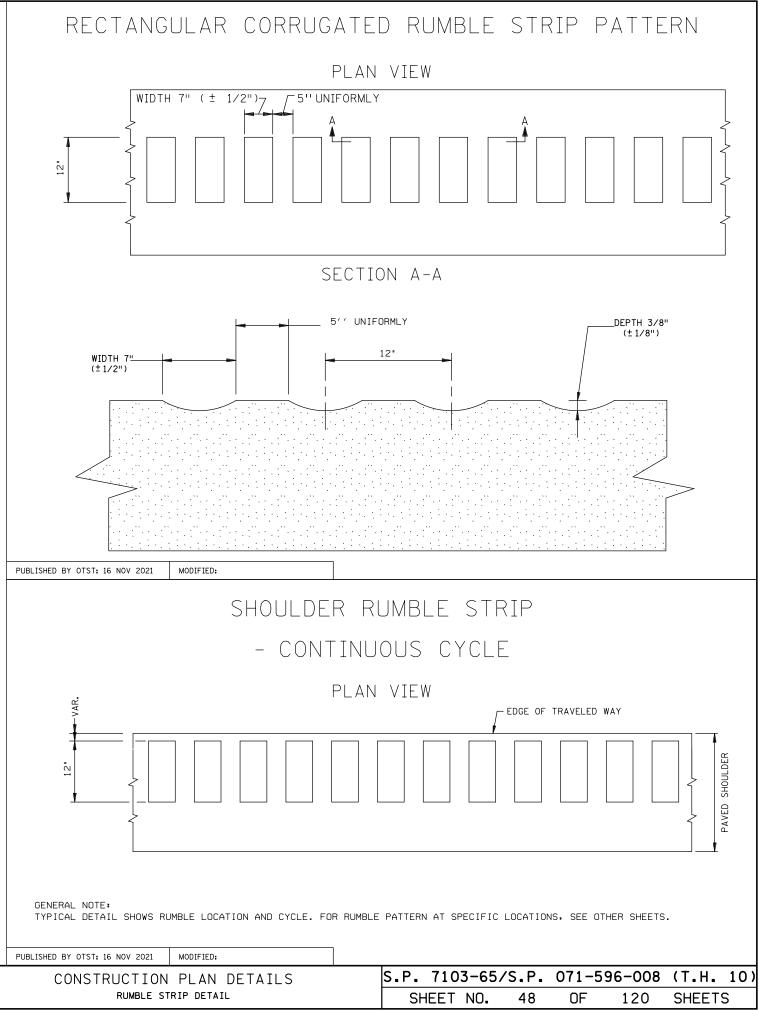
DATE 12/16/22 LICENSE # 54236

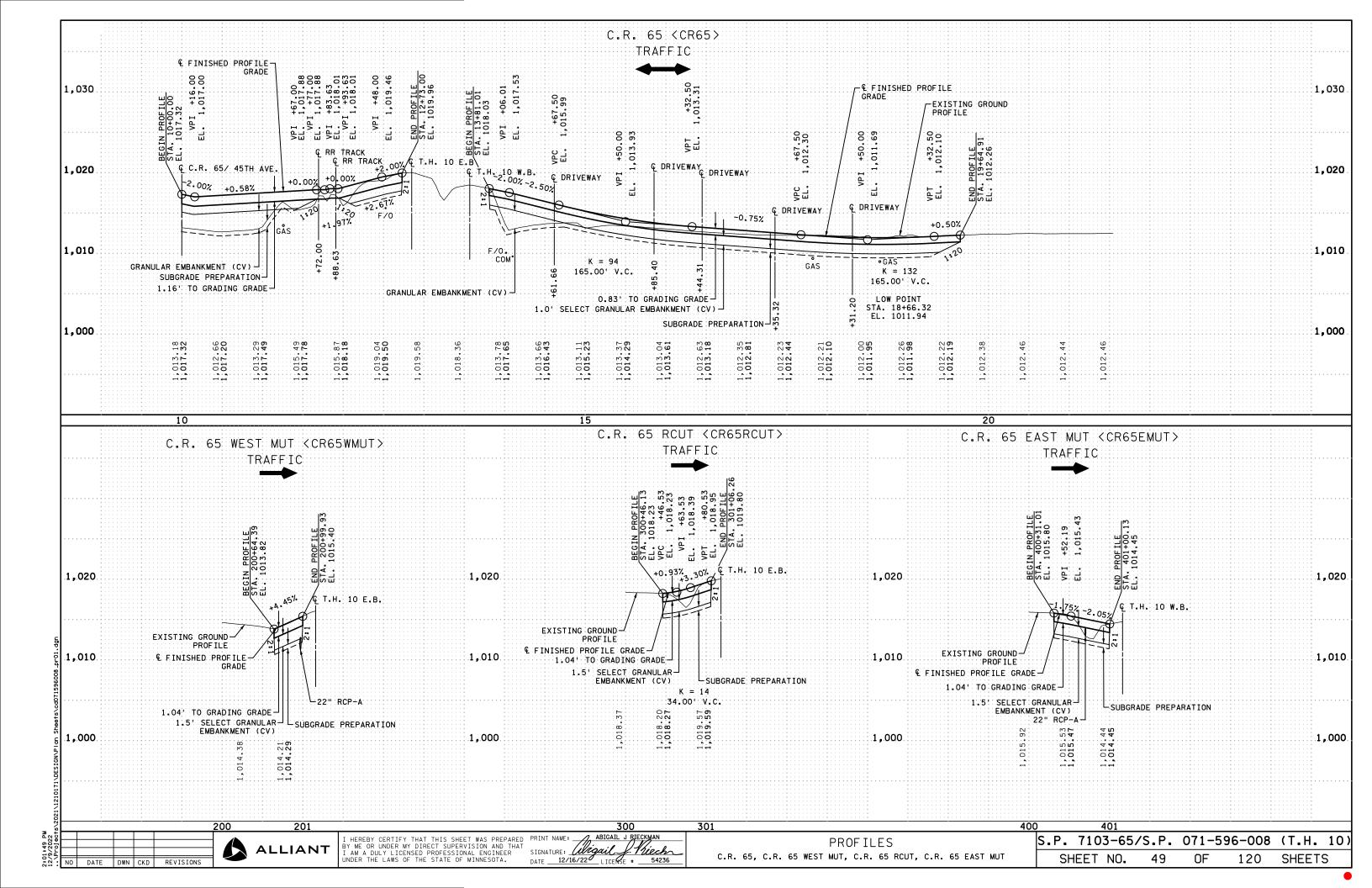
CONSTRUCTION PLAN DETAILS
RUMBLE STRIP DETAIL

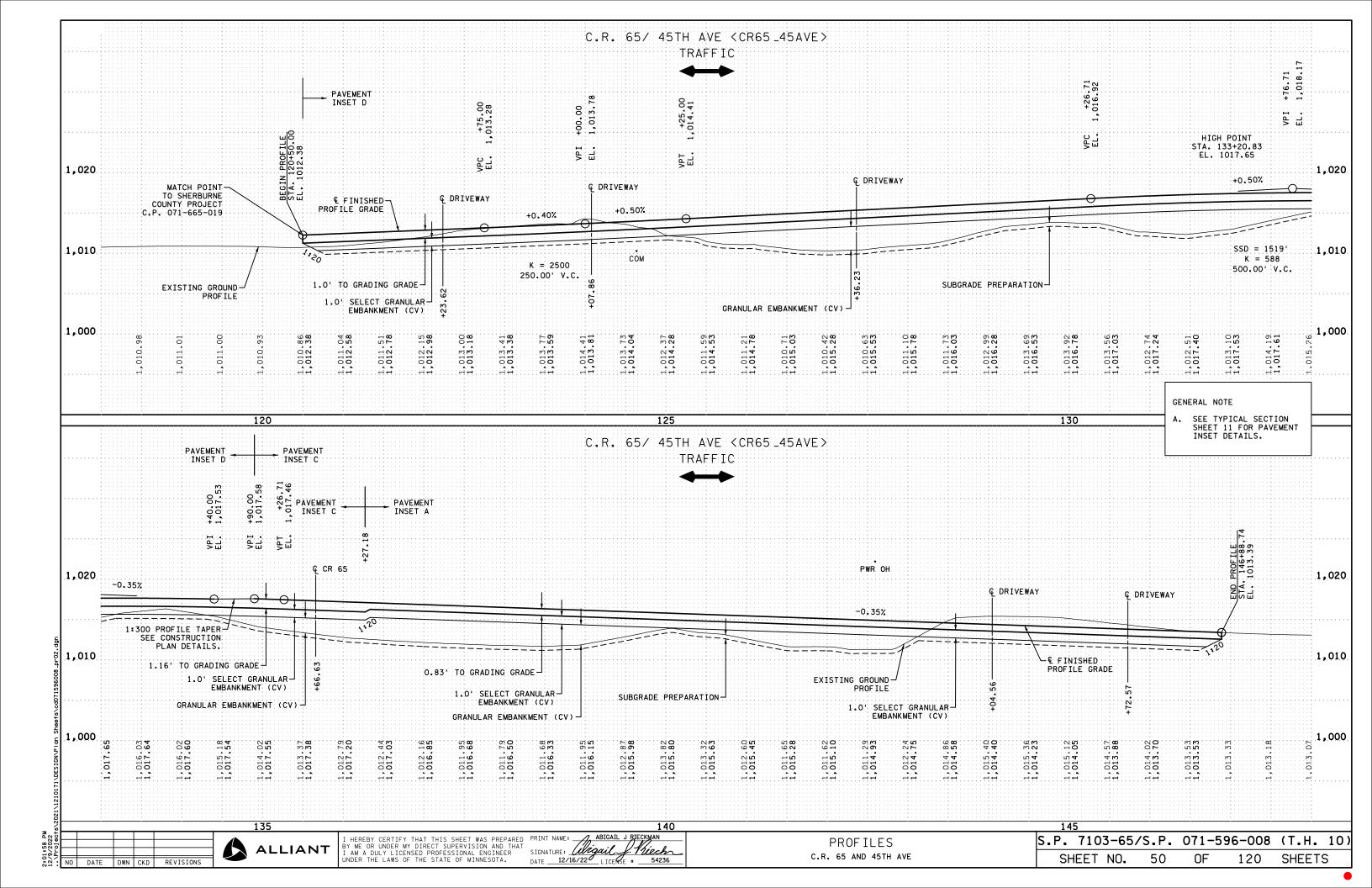
S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 47 OF 120 SHEETS

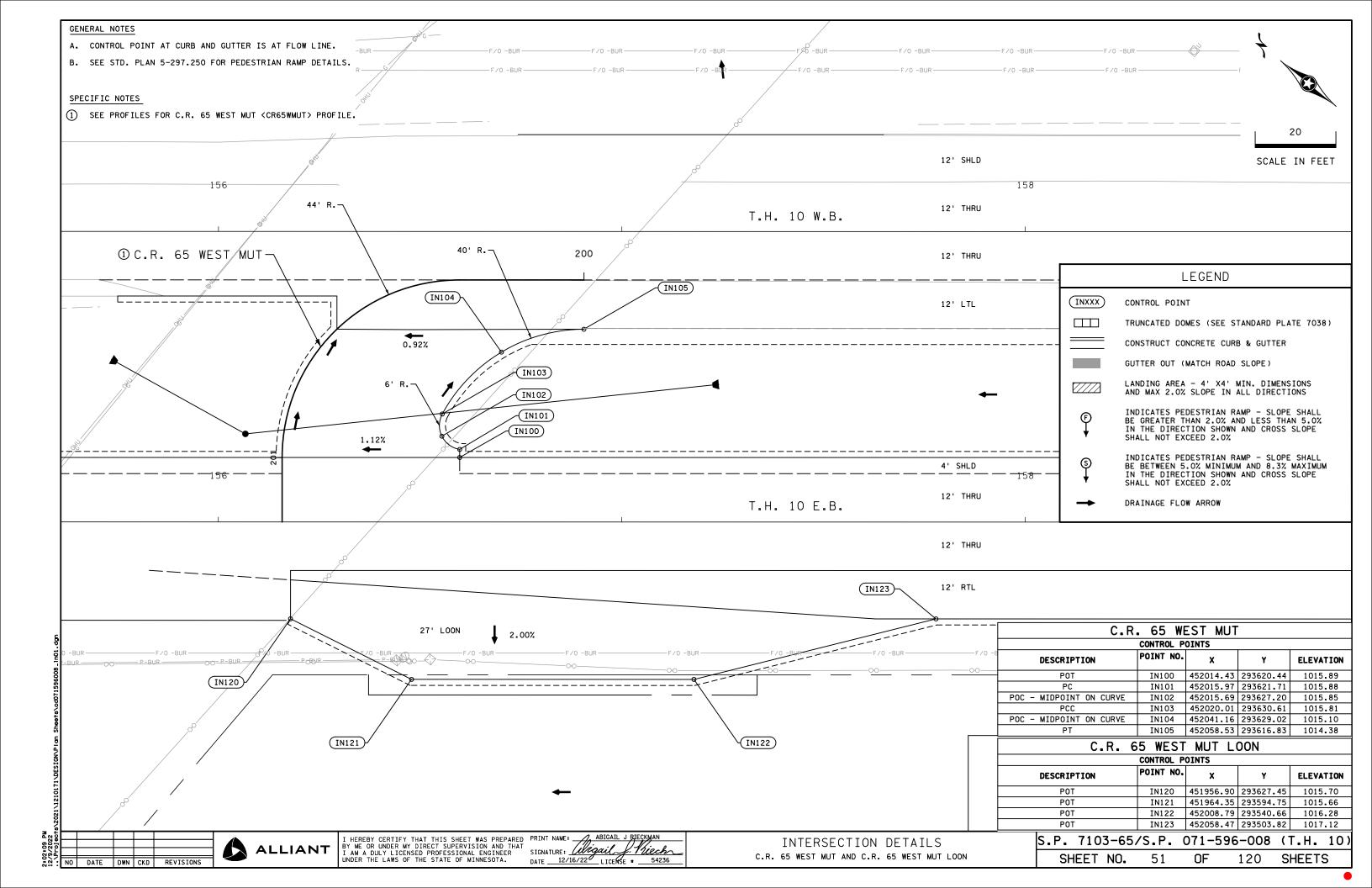
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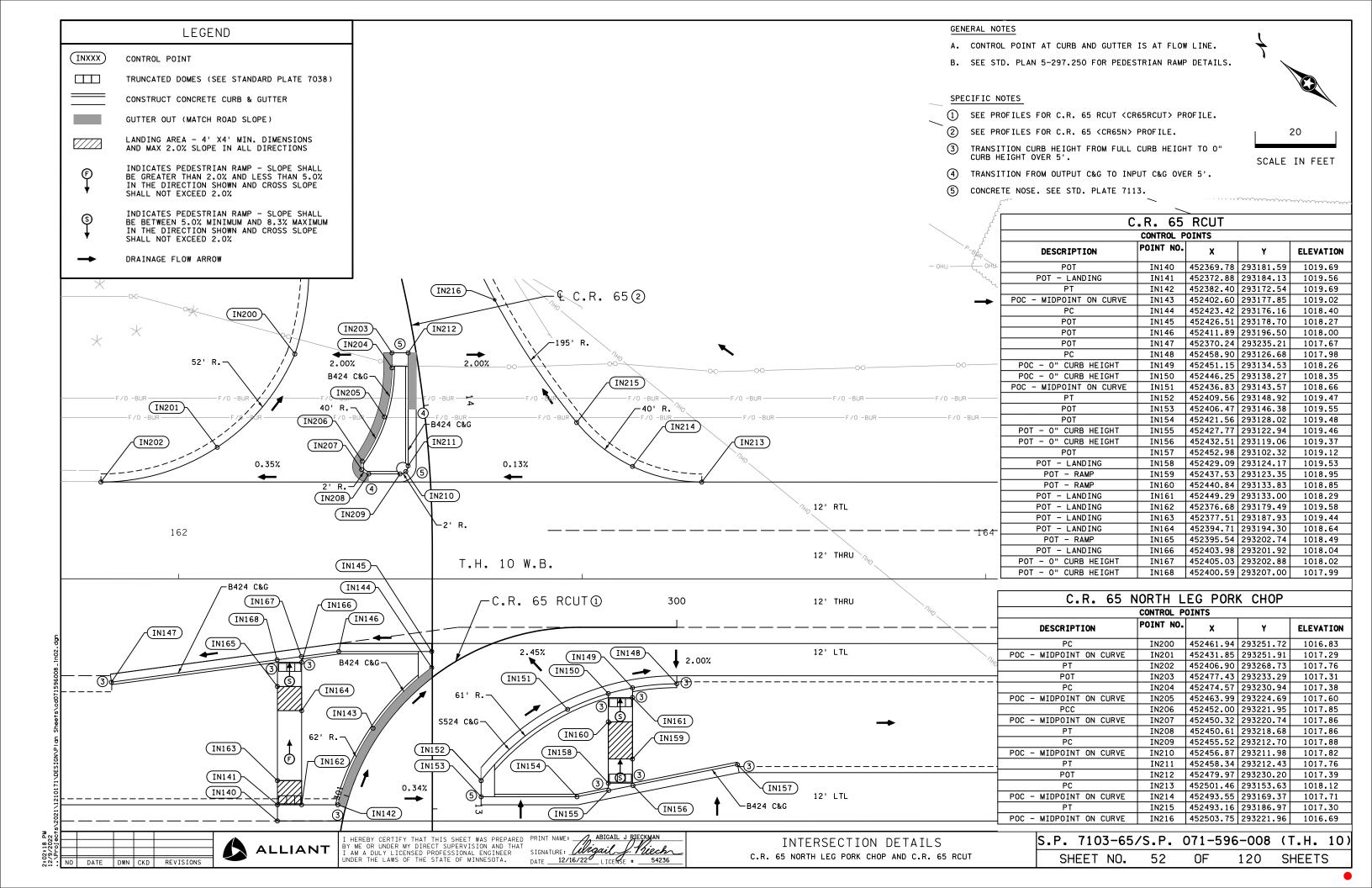


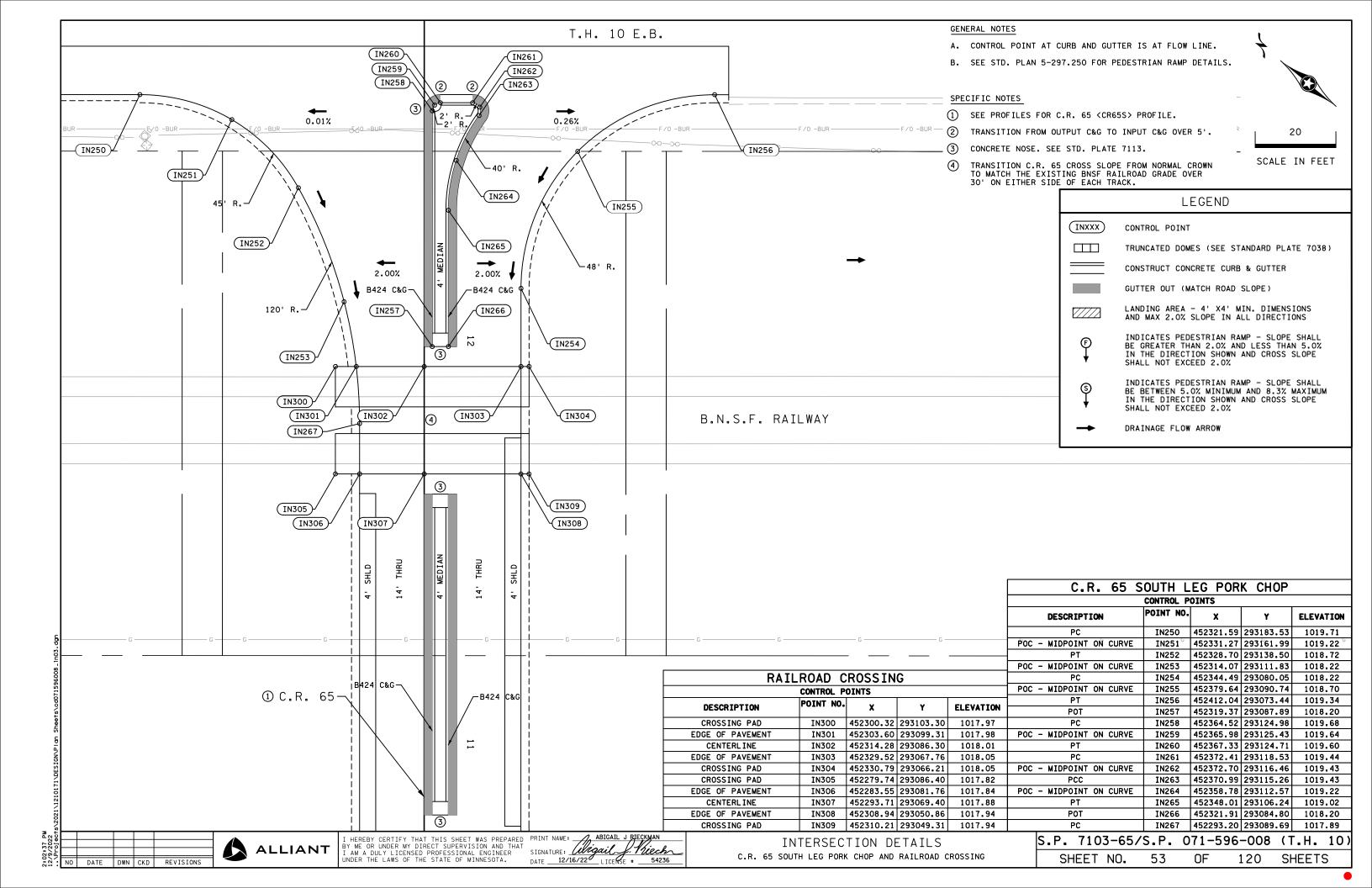


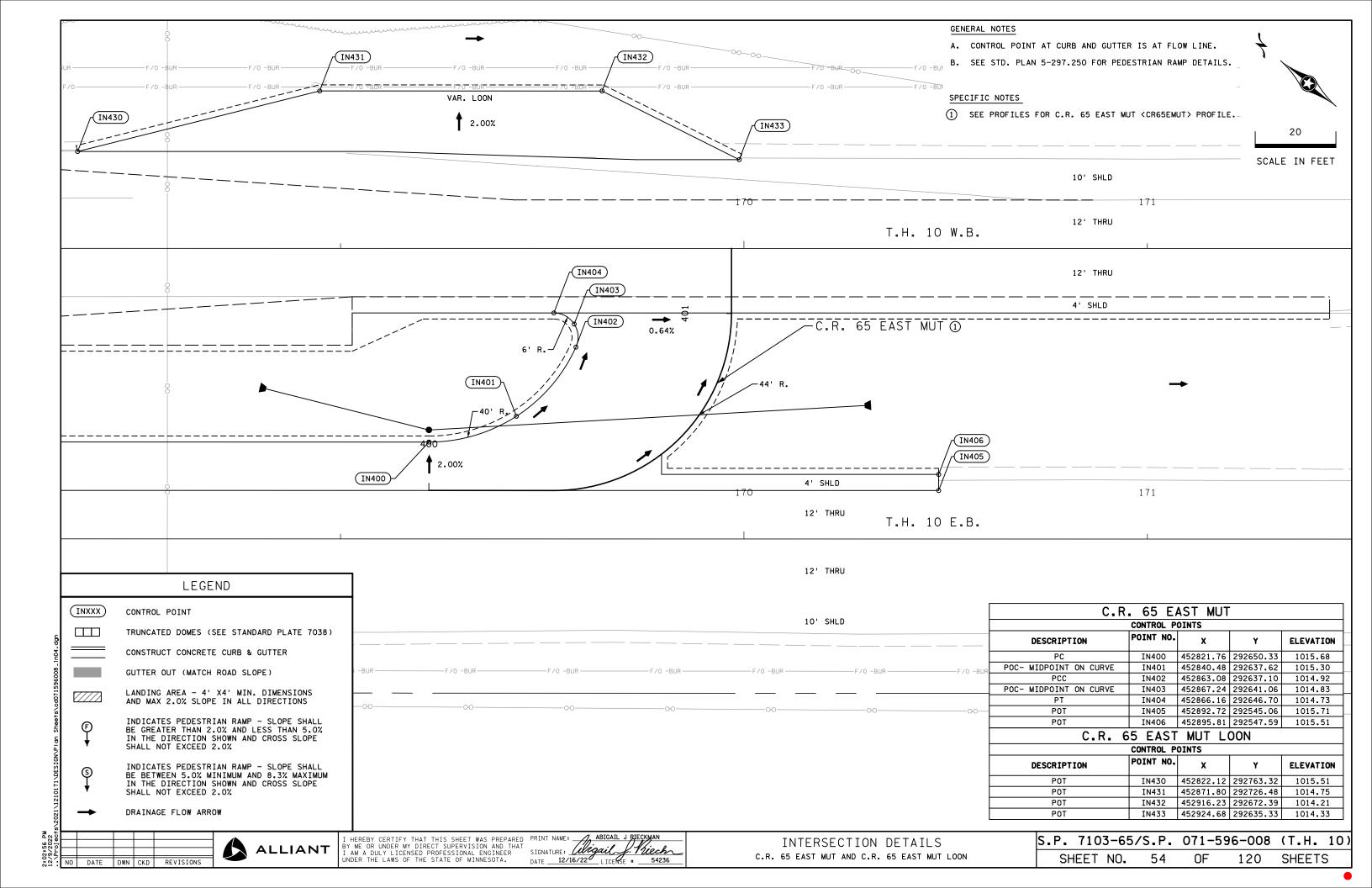


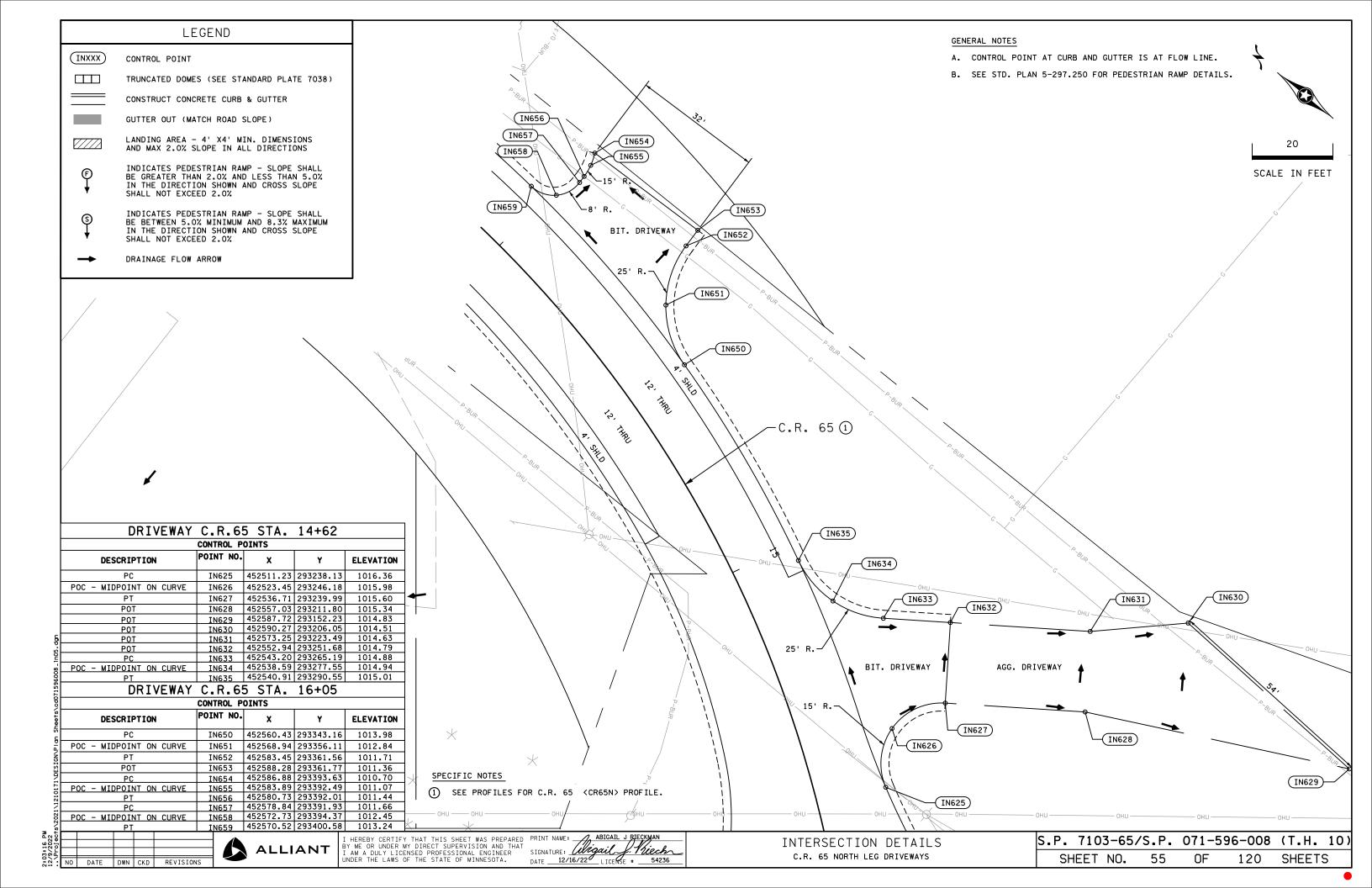


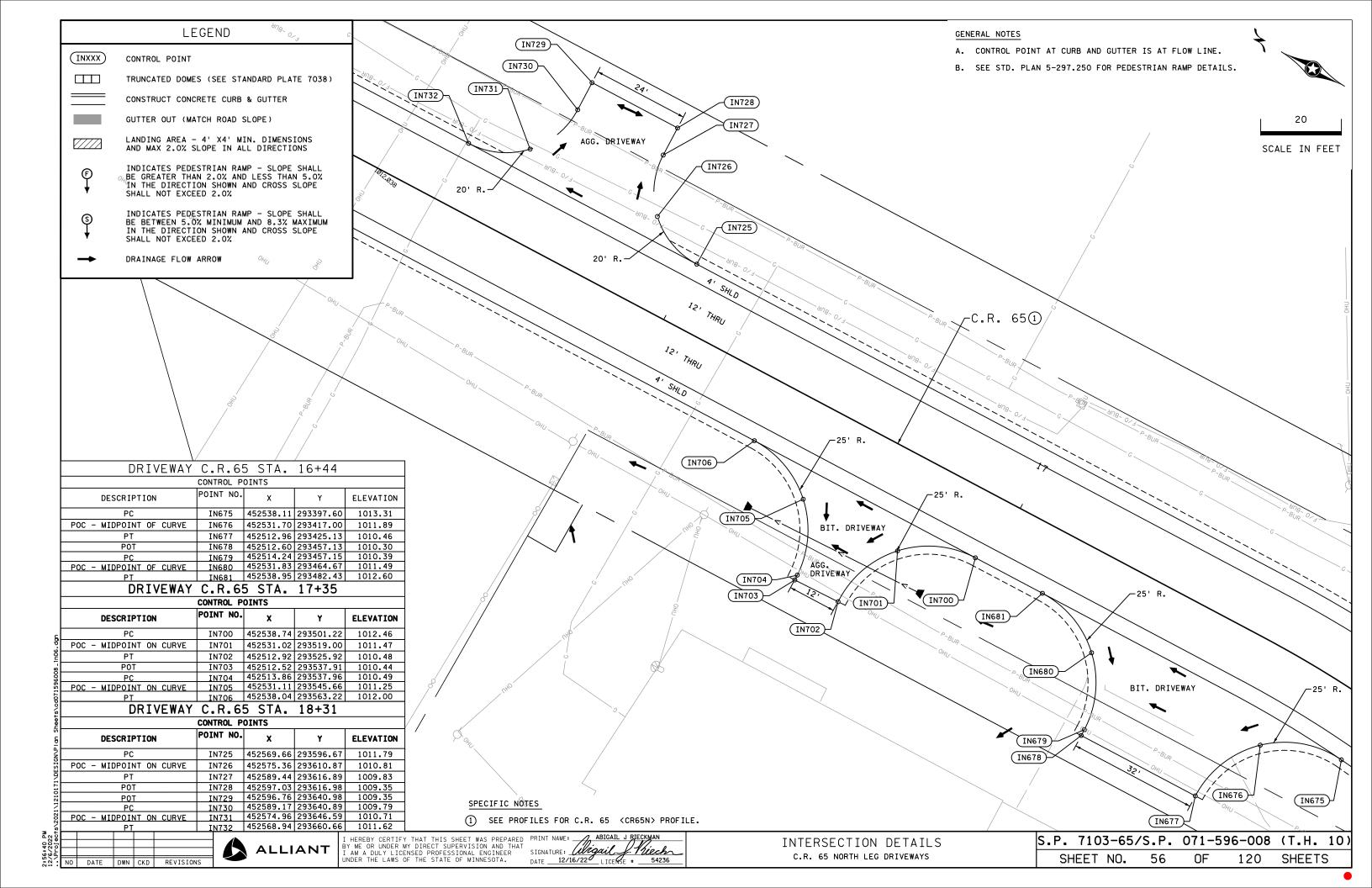


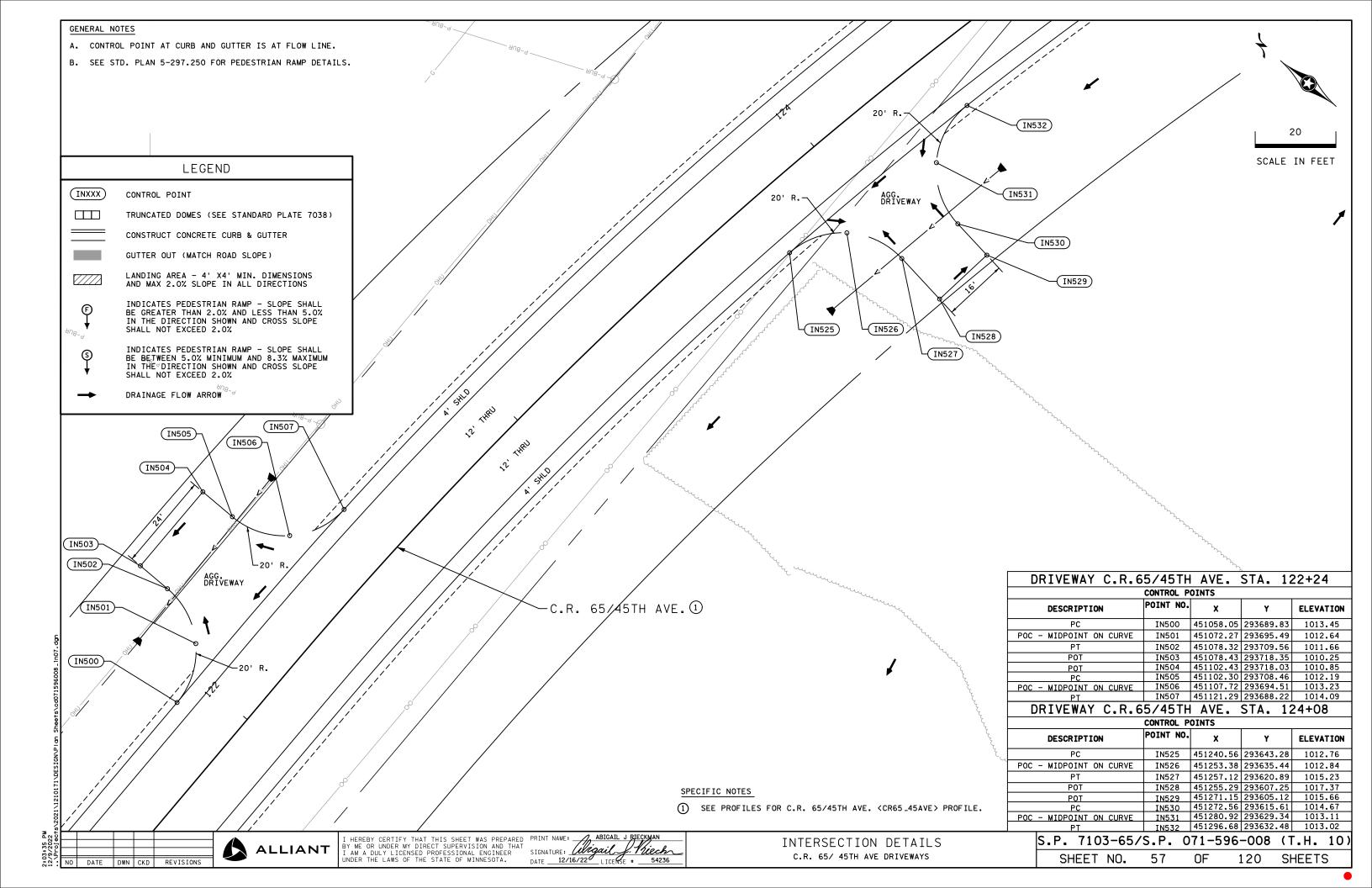


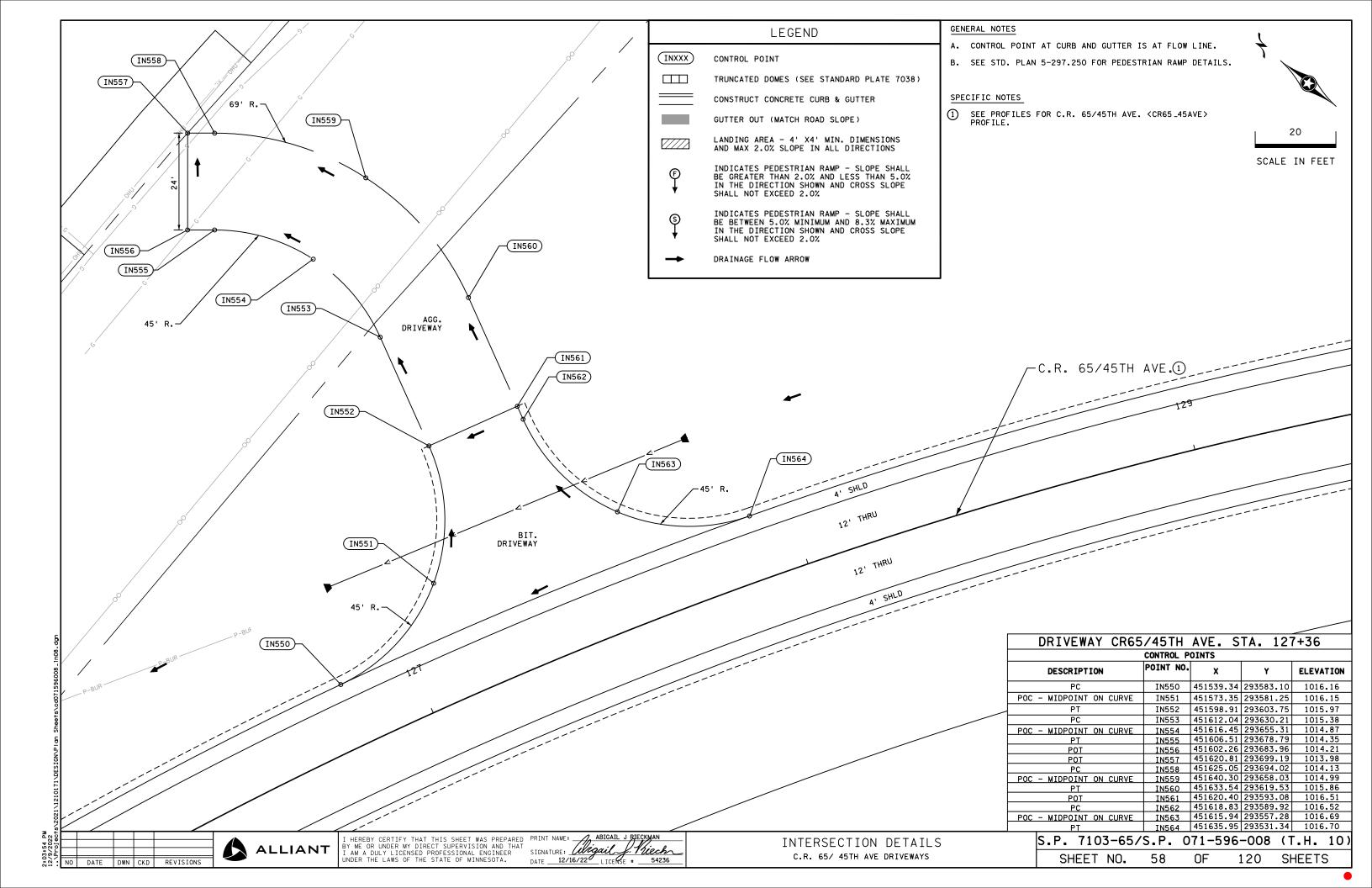


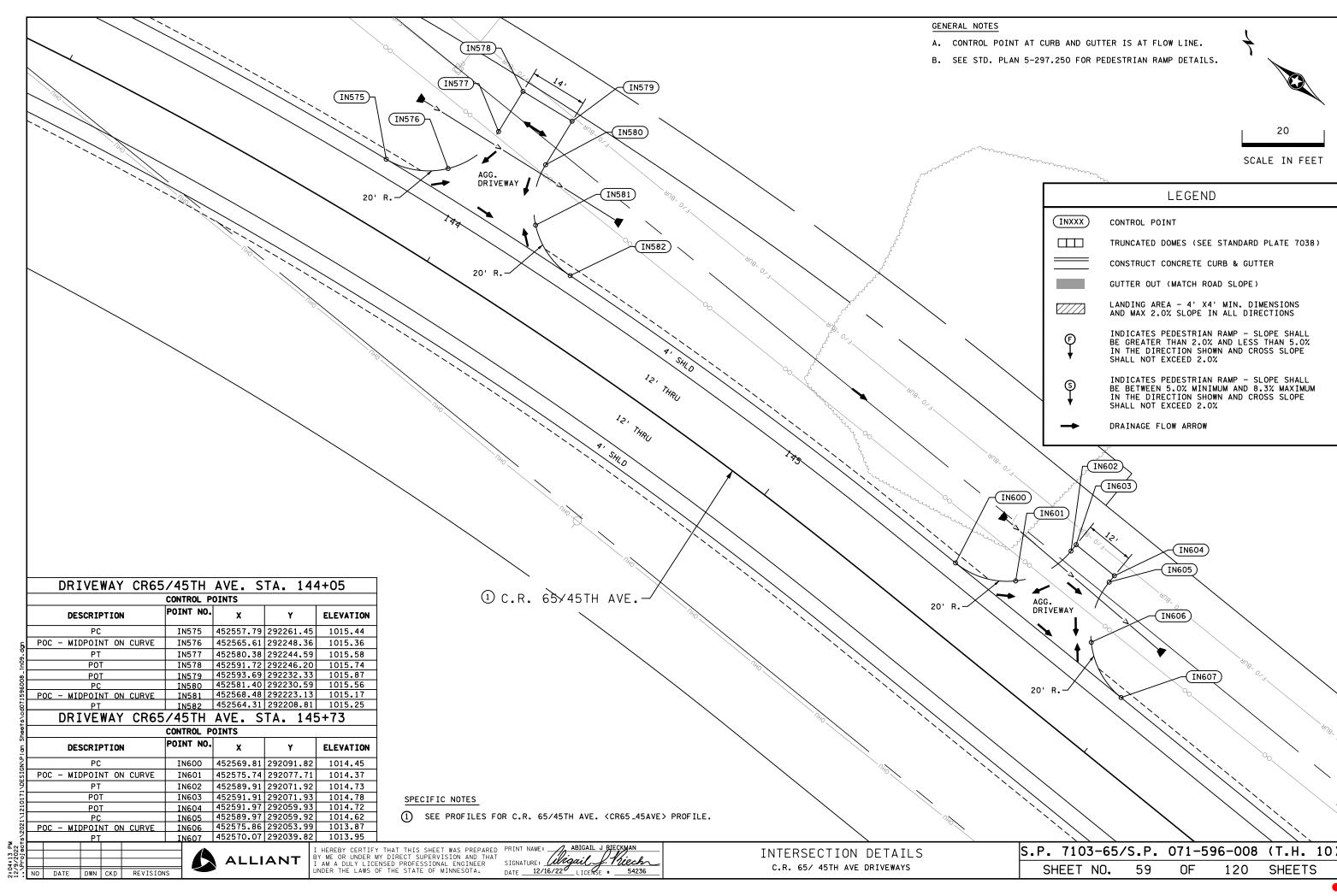


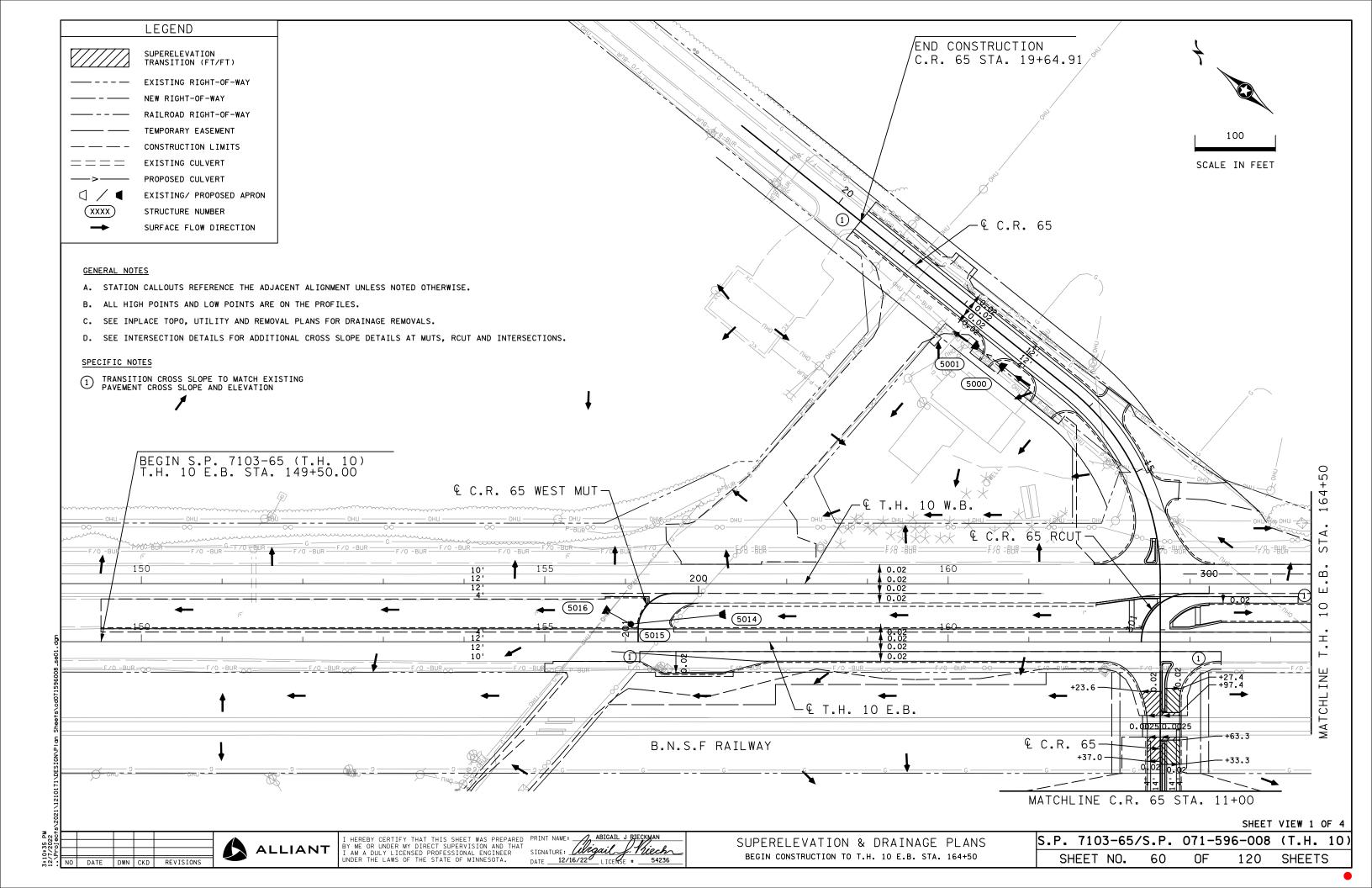


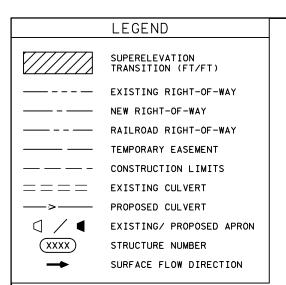












100

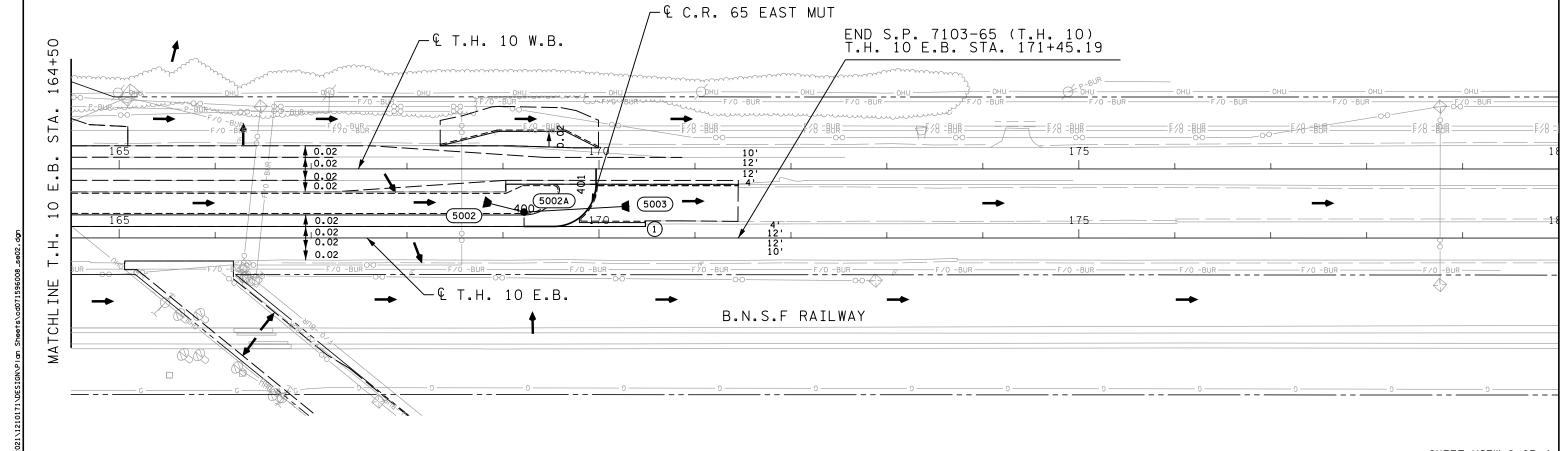
SCALE IN FEET

# **GENERAL NOTES**

- A. STATION CALLOUTS REFERENCE THE ADJACENT ALIGNMENT UNLESS NOTED OTHERWISE.
- B. ALL HIGH POINTS AND LOW POINTS ARE ON THE PROFILES.
- C. SEE INPLACE TOPO, UTILITY AND REMOVAL PLANS FOR DRAINAGE REMOVALS.
- D. SEE INTERSECTION DETAILS FOR ADDITIONAL CROSS SLOPE DETAILS AT MUTS, RCUT AND INTERSECTIONS.

# SPECIFIC NOTES

① TRANSITION CROSS SLOPE TO MATCH EXISTING PAVEMENT CROSS SLOPE AND ELEVATION



SHEET VIEW 2 OF 4

DATE DWN CKD REVISIONS

ALLIANT

I HERBY
BY ME OR
I AM A DL
UNDER THE

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

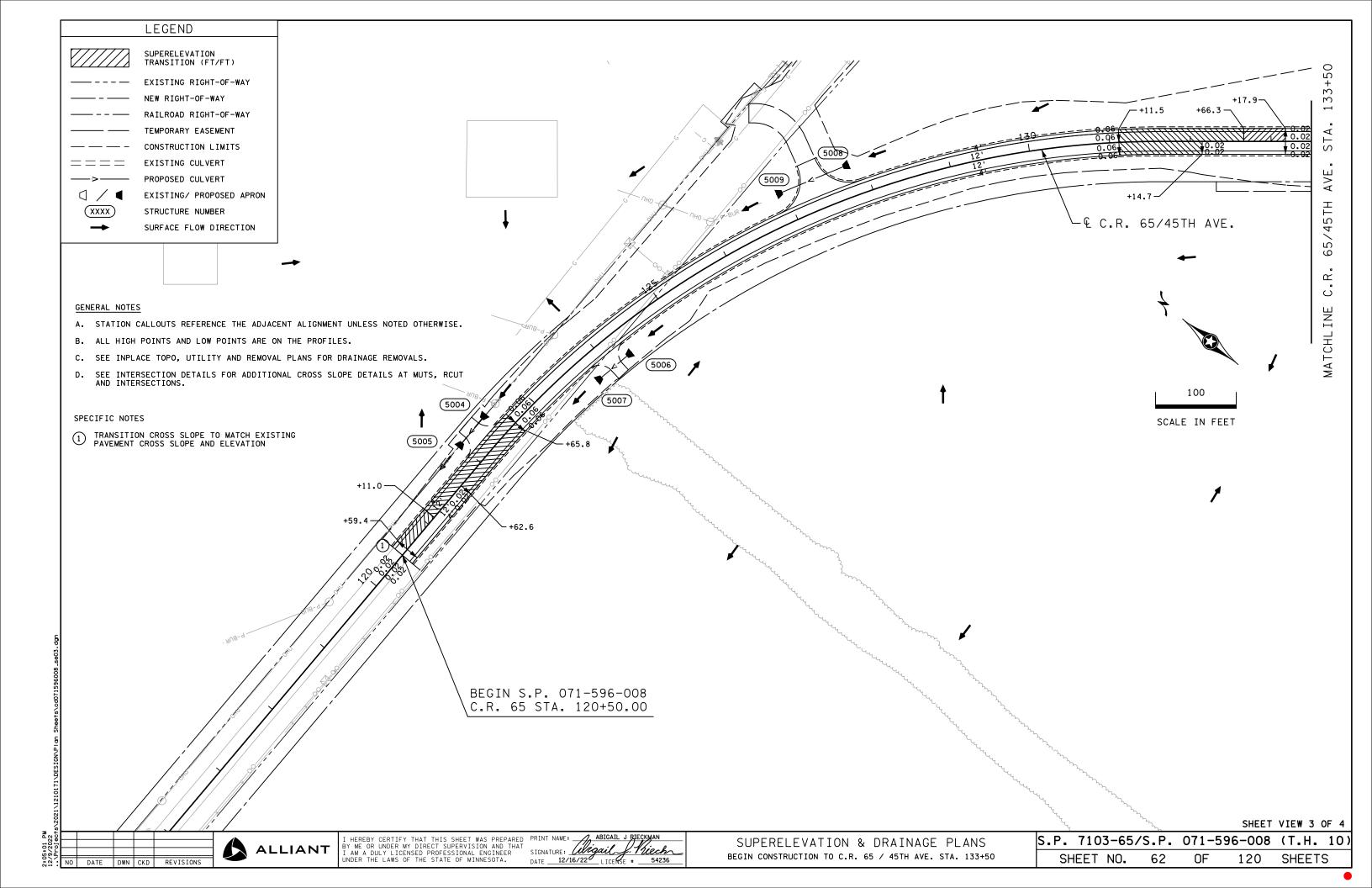
PRINT NAME: ABIGAIL J RIECKMAN

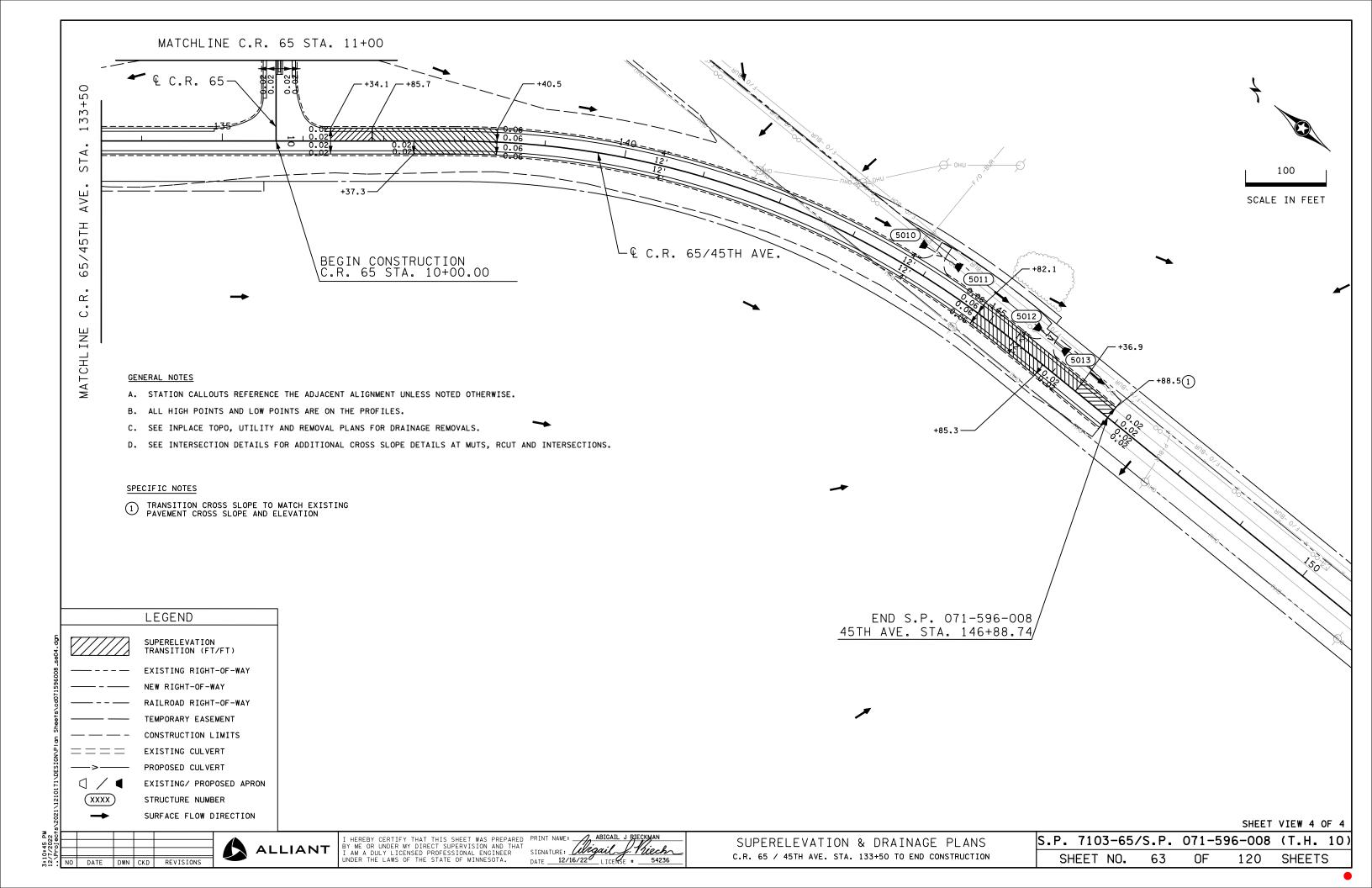
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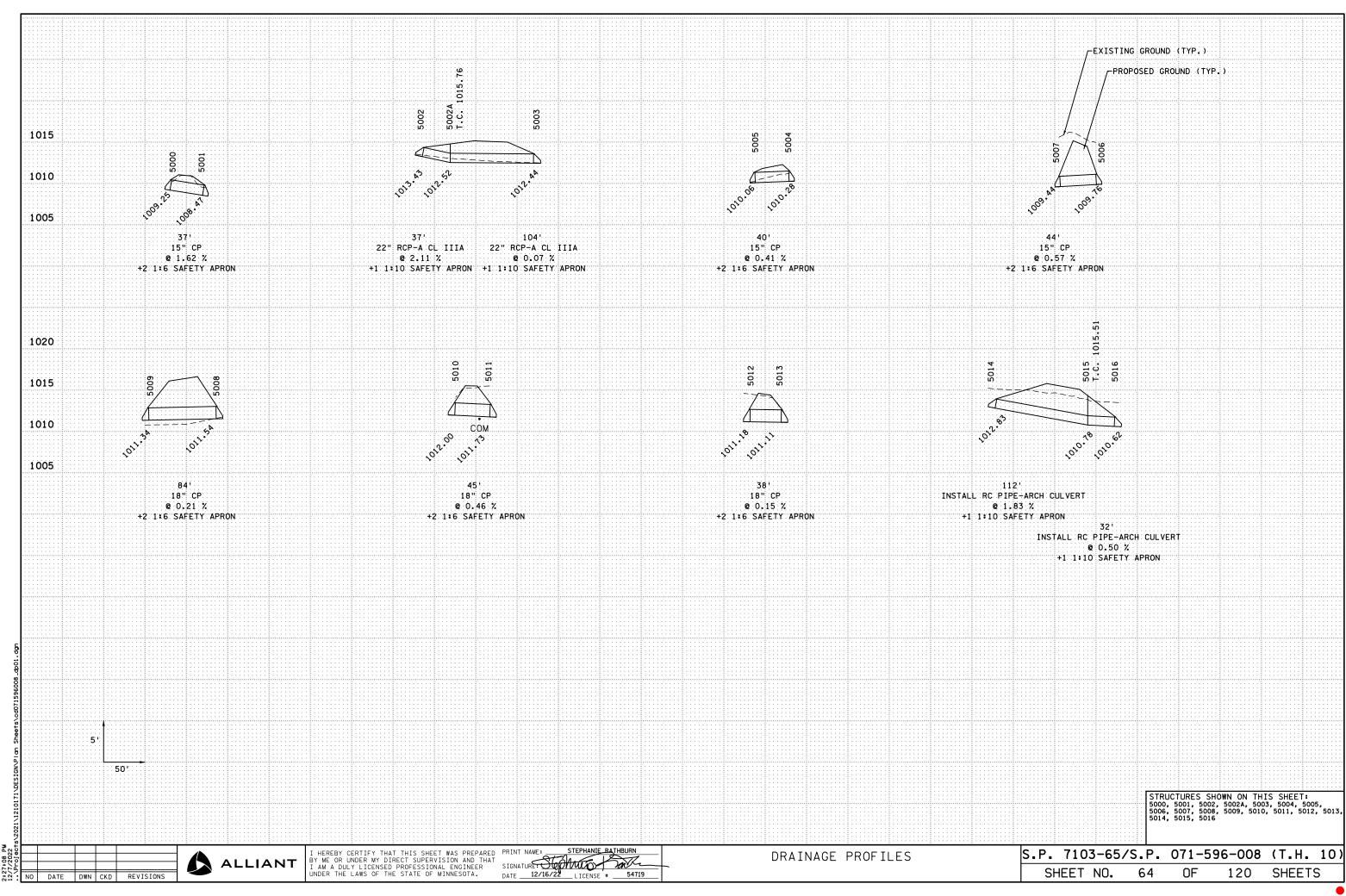
DATE 12/16/22 LICENSE # 54236

SUPERELEVATION & DRAINAGE PLANS T.H. 10 E.B. STA. 164+50 TO END CONSTRUCTION

S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 61 OF 120 SHEETS







CASTING ASSEMBLY SUMMARY								
ASSEMBLY	RING OR FRAME CASTING	COVER OR GRATE CASTING	STANDARD PLATE NO.	QUANTITY				
M-7	700-7		4101	3				
IVI T		721	4110					

									PI	ROPOSED	DRA	INAGE	TABULAT	ION									L
		S	TRUCTURE LOC	CATION (1)											NEW STRUC	TURE CON	STRUCTION			SAFE	ETY	⊢Ā	
	STRI						TOP OF	U/S	SLOPE OF	D/S	ASSE	TING MBLY	VAGE TURE IGN 48	, REQ'D	CP SE ERT	CP SE ERT	-L RO ARCH ERT (7)	SPAN ARCH ERT IIIA	CAS	APRI CVS		E POS SPECI	ES
	FROM	<u>و</u>	ALIGN.	STATION	OFFS	ET	CAST. ELEV.	EĽÉV.	PÎPE %	EĽÉV.	(	(6)	DRAINAGE STRUCTURE DESIGN SD-48	STEPS R (2)	15" CP PIPE CULVERT (3)	18" CP PIPE CULVERT (3)	INSTALL RC PIPE-ARCH CULVERT (3) (7)	22" SPAN RC PIPE-ARCH CULVERT CLASS IIIA	15" C		21" SPAN CAS AND GRATE DESIGN 3128		NOTES
		L									TYPE	EACH	LIN FT	<u> </u>			LIN FT			EAC	CH	EACH	
	SP 071 5004		08 (CR 65/ 4   CR65_45AVE		34.6	1 + 1		1010.28	0.41	1010.06		1			40			I	1	$\overline{}$		1	(4)
	5005	3003	CR65_45AVE		33.2			1010.28	0.41	1010.00					1 70				1	$\vdash$		1	(4)
	5006	5007	CR65_45AVE	124+33.88	33.5			1009.76	0.57	1009.44					44				1	$\Box$		1	(4)
	5007		CR65_45AVE	123+75.71	33.6			1009.44											1	$\Box$		1	(4)
	5008	5009	CR65_45AVE	127+82.54	39.5	LT		1011.54	0.21	1011.34						84				1		1	(4)
(B)	5009		CR65_45AVE	126+88.67	39.2			1011.34												1		1	(4)
	5010	5011	CR65_45AVE	143+77.67	33.0			1012.00	0.46	1011.73						45				1		1	(4)
	5011		CR65_45AVE	144+34.05	33.4			1011.73												1		1	(4)
	5012	5013	CR65_45AVE	145+47.87	32.1			1011.18	0.15	1011.11						38				1		1	(4)
	5013		CR65_45AVE	145+99.79	30.8	LT		1011.11												_1_			(4)
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			TH 10 EB)									_											
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(A)	5015	3016	TH10EB		37.4		1015.51	1010.78	0.30	1010.62	M-1	+ -	4.7	IES	<del> </del>		32			$\vdash$		1	(5)
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	TOTAL							ı				2	7.9		121	167	144	141	6	6	4	16	
	LOTAL														1 161		477	1 11		<u> </u>			

- (1) STATION, OFFSET, AND TOP OF CASTING ELEVATION FOR EACH POINT NUMBER ARE GIVEN AT THE CENTER OF GRATE OR COVER CASTING. INVERT ELEVATIONS ARE GIVEN AT CENTER OF STRUCTURE OR APRON END.
- (2) STRUCTURES WITH PAY HEIGHT DEPTHS GREATER THAN 3.5' MUST INCLUDE MANHOLE STEPS 16" ON CENTER. SEE STANDARD PLATE 4180.
- (3) PIPE LENGTHS IN TABULATION DO NOT INCLUDE APRON LENGTH.
- (4) SAFETY APRON MUST FIT 1:6 SLOPE.
- (5) SAFETY APRON MUST FIT 1:10 SLOPE. SEE DETAIL ON SHEET 66.
- (6) SEE CASTING ASSEMBLY SUMMARY.
- (7) TIE ALL JOINTS. USE GALVANIZED STEEL TIE. SEE STANDARD PLATE 3145 (INCIDENTAL).
  (8) PIPE CULVERT REMOVAL LENGTH INCLUDES APRONS.
- (9) INPLACE PIPE SIZES SHOWN ON REMOVAL PLAN SHEETS.

- (A) 80% FEDERAL/20% STATE FUNDS.
- (B) 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

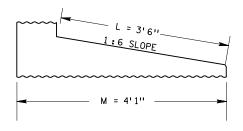
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DRAINAGE TABULATION

S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 65 SHEETS 120

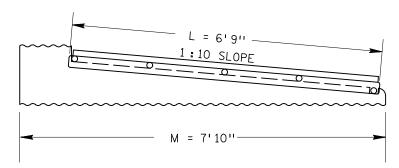
# 15" CAS SAFETY APRON (1:6 SLOPE)



GAGE = 12 SEE STANDARD PLATE 3128 FOR OTHER DETAILS

# 21" SPAN CAS SAFETY APRON & GRATE DES. 3128

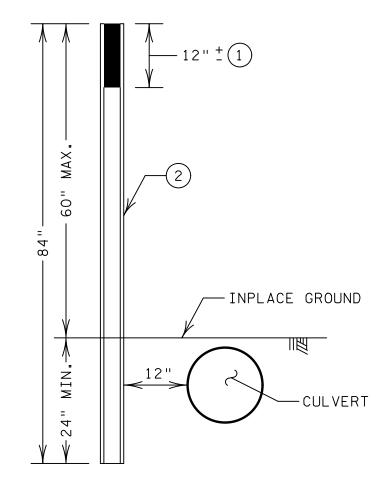
(MODIFIED TO 1:10 SLOPE)



NUMBER OF BARS = 5 DIA. OF BARS = 1-1/2" NUMBER OF GRATE SECTIONS = 2 SEE STANDARD PLATE 3128 FOR OTHER DETAILS

REVISED JAN. 11, 2000

# GUIDE POST TYPE SPECIAL



# GENERAL NOTES:

A. SEE STANDARD PLATE 8150 AND PLAN TABULATIONS FOR REQUIRED LOCATIONS.

# SPECIFIC NOTES:

- 3" X 12" YELLOW MICROPRISMATIC SHEETING MEETING THE REQUIREMENTS OF ASTM TYPE IX. TO BE PLACED ON BOTH SIDES OF POST.
- MARKER SHALL BE A FLEXIBLE POST GRAY IN COLOR.

I HEREBY CERTIFY THAT THIS SHEET 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 MINNESDTA.



# STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

#### PROJECT DESCRIPTION/LOCATION

C.R. 65 INTERSECTS T.H. 10 IN THE HAVEN TOWNSHIP

THE PLANNED SCOPE OF THE PROJECT INCLUDES:

TH 10 REDUCED CONFLICT INTERSECTION (RCI) CONSTRUCTION, MEDIAN U-TURN (MUT) INTERSECTION CONSTRUCTION, EXISTING TURN LANE REMOVAL.

# RECEIVING WATERS WITHIN 1-MILE AERIAL RADIUS OF PROJECT

THE ELK RIVER IS LOCATED WITHIN ONE MILE (AERIAL RADIUS) OF THE PROJECT LIMITS AND RECIEVES RUNOFF FROM THE PROJECT. THERE ARE NO IMPAIRED WATERS WITHIN ONE MILE OF THE PROJECT LIMITS.

#### AREAS OF ENVIRONMENTAL SENSITIVITY (AES)

AES WITHIN AND NEAR THE PROJECT BOUNDARY INCLUDE THE HARRY W. CATER HOMESTEAD PRAIRIE SCIENTIFIC AND NATURAL AREA.

#### SOIL TYPES

SOIL TYPES TYPICALLY FOUND ON THIS PROJECT ARE POORLY GRADED SANDS AND SILTY SANDS.

#### LONG TERM MAINTENANCE AND OPERATION

MNDOT DISTRICT 3 MAINTENANCE STAFF ARE RESPONSIBLE FOR THE LONG TERM MAINTENANCE AND OPERATION OF THE PERMANENT STORMWATER SYSTEM.

#### PROJECT PERSONNEL AND TRAINING

THIS SWPPP WAS PREPARED BY PERSONNEL THAT ARE CERTIFIED IN THE DESIGN OF CONSTRUCTION SWPPPS. COPIES OF THE CERTIFICATIONS ARE ON FILE WITH MNDOT AND ARE AVAILABLE UPON REQUEST.

PROVIDE A CERTIFIED EROSION CONTROL SUPERVISOR IN GOOD STANDING WHO IS KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES. THE EROSION CONTROL SUPERVISOR WILL WORK WITH THE PROJECT ENGINEER TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

PROVIDE AT LEAST ONE CERTIFIED INSTALLER FOR EACH CONTRACTOR OR SUBCONTRACTOR THAT INSTALLS THE PRODUCTS LISTED IN SPECIFICATION SECTION 2573.3.A.2. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

# CHAIN OF RESPONSIBILITY

MNDOT AND THE CONTRACTOR ARE COPERMITEES FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. THE CONTRACTOR WILL DEVELOP A CHAIN OF COMMAND WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL THE CONSTRUCTION PROJECT IS COMPLETE, THE ENTIRE SITE HAS MET PERMIT TERMINATION CONDITIONS, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

# PROJECT CONTACTS

THE PROJECT ENGINEER AND CONTRACTOR ARE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP AND INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE, DURING AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION HAS BEEN FILED. MNDOT DISTRICT 3 STAFF ARE ALSO AVAILABLE FOR TECHNICAL ASSISTANCE.

ORGANIZATION	CONTACT NAME	PHONE
MNDOT DISTRICT 3 HYDRAULIC ENGINEER	BOB MILLER	218-828-5792
MNDOT DISTRICT 3 ENVIRONMENTAL COORDINATOR	MIKE STANGLER	320-223-6532
MNDOT DISTRICT 3 CONST. RESIDENT ENGINEER	JEFF EGGERT	320-223-6605
MNDOT DISTRICT 3 MAINTENANCE CONTACT	JAMIE HUKRIEDE	218-828-5705
MINNESOTA POLLUTION CONTROL AGENCY (MPCA)	NICK NISTLER	651-757-2564
MNDOT AGRICULTURE SPECIALIST	KEN GRAEVE	651-366-3613
SWPPP DESIGNER	STEPHANIE RATHBURN	612-767-9309

MPCA DUTY OFFICER 24 HOUR EMERGENCY NOTIFICATION: 651-649-5451 OR 800-422-0798

#### LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE SPECIAL PROVISIONS, MNDOT SPEC BOOK (2020 EDITION), OR ON FILE WITH MNDOT. THE NOTES AND TABLE BELOW ARE INTENDED TO BE A QUICK REFERENCE FOR THE CONTRACTOR AND PROJECT ENGINEER TO USE IN THE FIELD. THERE MAY BE ADDITIONAL REQUIRED SWPPP ELEMENTS INCLUDED ON THE PROJECT THAT ARE NOT LISTED ON THIS SHEET.

# LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

DESCRIPTION	LOCATION
PERMANENT EROSION CONTROL MEASURES	SHEETS NO. 69-72
DIRECTION OF FLOW	SHEETS NO. 60-63
SOILS AND CONSTRUCTION NOTES	SHEETS NO. 5
DRAINAGE STRUCTURES	SHEETS NO. 60-63
DRAINAGE TABULATION	SHEETS NO. 65
EROSION AND SEDIMENT CONTROL DETAILS	SHEETS NO. 22-29
EROSION CONTROL TABULATION	SHEETS NO. 10
TURF ESTABLISHMENT TABULATION	SHEETS NO. 10
SITE MAP	SHEETS NO. 69-72
STORMWATER CALCULATIONS	HYDRAULICS FOLDER

STORMWATER CALCULATIONS AND ADDITIONAL HYDRAULIC DESIGN INFORMATION IS STORED IN THE PROJECT'S HYDRAULICS FOLDER IN PROJECTWISE. WATER RESOURCES WILL MAKE THIS INFORMATION AVAILABLE UPON BEDLIEST

# SITE INSPECTION AND MAINTENANCE

INSPECT THE ENTIRE CONSTRUCTION SITE A MINIMUM OF ONCE EVERY SEVEN DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. INSPECT ALL TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT, EROSION PREVENTION AND SEDIMENT CONTROL BMPS UNTIL THE SITE HAS MET PERMIT TERMINATION CONDITIONS AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF SITE SEDIMENT ACCUMULATION.

RECORD ALL INSPECTIONS AND MAINTENANCE ACTIVITIES IN WRITING WITHIN 24 HOURS. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. INCLUDE THE FOLLOWING IN THE RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY:

- A. DATE AND TIME OF INSPECTIONS
- $\ensuremath{\mathsf{B.}}$  NAME OF PERSONS CONDUCTING INSPECTIONS
- C. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS
- D. CORRECTIVE ACTIONS TAKEN, INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES
- E. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCH IN 24 HOURS
- F. DOCUMENTS AND CHANGES MADE TO THE SWPPP

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:

- A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN IT BECOMES NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
- B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
- C. DRAIN AND REMOVE SEDIMENT FROM TEMPORARY AND PERMANENT SEDIMENT BASINS ONCE THE SEDIMENT HAS REACHED 1/2 THE STORAGE VOLUME. COMPLETE WORK WITHIN 72 HOURS OF DISCOVERY.
- D. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. RESTABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR WORKING IN SURFACE WATERS. CONTACT ALL APPROPRIATE AUTHORITIES PRIOR TO WORKING IN SURFACE WATERS.
- E. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN 1 (ONE) CALENDAR DAY OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
- F. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS MET PERMIT TERMINATION CONDITIONS, AND THE NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED TO THE MPCA.

#### ENVIRONMENTAL REVIEW

THERE ARE NO STORMWATER MITIGATION MEASURES REQUIRED AS A RESULT OF AN ENVIRONMENTAL, ARCHEOLOGICAL OR AGENCY REVIEW. ALL MITIGATION MEASURES HAVE BEEN ADDRESSED IN THIS PLAN SET OR THE SPECIAL PROVISIONS.

THIS PROJECT IS NOT LOCATED IN A WELL HEAD PROTECTION AREA.

THIS PROJECT IS NOT LOCATED IN A DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA).

# LAND FEATURE CHANGES

TOTAL DISTURBED	AREA				12.533	ACRES
TOTAL EXISTING I	MPERVIOUS	SURFACE AREA			2.726	ACRES
TOTAL PROPOSED I	MPERVIOUS	SURFACE AREA			3.341	ACRES
TOTAL PROPOSED N	IET CHANGE	IN IMPERVIOUS	SURFACE	AREA	0.615	ACRES

SHEET 1 OF 2

ALLIANT

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.



# STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
LAST 200 LINEAL FEET OF DRAINAGE DITCH OR SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER OR PROPERTY EDGE	1,2,3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	14 DAYS	1
PIPE AND CULVERT OUTLETS	24 HOURS	
EXPOSED SOILS AND STOCKPILES	14 DAYS	1
WITHIN 200 FEET OF A PUBLIC WATER	24 HOURS	1

- 1. INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.
- 2. STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET).
- 3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.
- 4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE SNOW MULCHED, SEEDED, AND BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT.
- 5. TOPSOIL BERMS MUST BE STABILIZED IN ORDER TO BE CONSIDERED PERIMETER CONTROL BMPS. USE RAPID STABILIZATION METHOD 2, 3, OR 4 AS DIRECTED BY THE ENGINEER. THE SEED MIX USED IN THE RAPID STABILIZATION MAY BE SUBSTITUTED AS FOLLOWS:
  - A. SINGLE YEAR CONSTRUCTION BETWEEN MAY 1 AUGUST 1, SEED WITH SEED MIXTURE 21-111
  - B. SINGLE YEAR CONSTRUCTION BETWEEN AUGUST 1 AND OCTOBER 31, SEED WITH SEED MIXTURE 21-112
- 6. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL MULCHES, HYDROMULCHES AND BLANKETS.

# GENERAL SWPPP NOTES FOR CONSTRUCTION ACTIVITY

- 1. AMEND THE SWPPP AND DOCUMENT ANY AND ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES.
- 2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, AND AS REQUESTED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR MNDOT TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
- 3. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
- 4. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING, PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.
- 5. ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.
- 6. DIRECT DISCHARGES FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO
- 7. THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS SHALL BE PLACED AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND TO CAPTURE SEDIMENT ON SITE. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK AND/OR GROUND DISTURBING ACTIVITIES COMMENCE.
- 8. ESTABLISH SEDIMENT CONTROL DEVICES ON ALL DOWN GRADIENT PERIMETERS AND UPGRADIENT OF ANY BUFFER ZONES BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. MAINTAIN SEDIMENT CONTROL DEVICES UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 9. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW- VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100 FOOT INTERVALS.
- 10. PROVIDE PERIMETER CONTROL AROUND ALL STOCKPILES. PLACE BMP A MINIMUM 5 FEET FROM THE TOE OF SLOPE WHERE FEASIBLE. DO NOT PLACE STOCKPILES IN NATURAL BUFFER AREAS, SURFACE WATERS OR STORMWATER CONVEYANCES.
- 11. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.

- 12. PROTECT STORM SEWER INLETS AT ALL TIMES WITH THE APPROPRIATE INLET PROTECTION FOR EACH SPECIFIC PHASE OF CONSTRUCTION, PROVIDE INLET PROTECTION DEVICES WITH EMERGENCY OVERFLOW CAPABILITIES, SILT FENCE PLACED IN THE INLET GRATE IS NOT AN ACCEPTABLE INLET PROTECTION BMP FOR GRADING OPERATIONS. SILT FENCE PLACED IN THE GRATE IS ONLY ALLOWED FOR SHORT INTERVALS DURING MILLING OR PAVING OPERATIONS. INLET PROTECTION DEVICES MAY NEED TO BE PLACED MULTIPLE TIMES IN THE SAME LOCATION OVER THE LIFE OF THE CONTRACT. INLET PROTECTION DEVICES WILL BE PAID FOR ONCE PER INLET REGARDLESS OF THE NUMBER OF TIMES THE BMP IS PLACED. KEEP ALL STORM SEWER INLET PROTECTION DEVICES IN GOOD FUNCTIONAL CONDITION AT ALL TIMES. REPLACE INLET PROTECTION DEVICE WITH A SUITABLE ALTERNATIVE IF THE PROJECT ENGINEER DEEMS AN INLET PROTECTION DEVICE TO BE NONFUNCTIONAL, IN POOR CONDITION, INEFFECTIVE, OR NOT APPROPRIATE FOR THE CURRENT CONSTRUCTION ACTIVITIES. THERE WILL BE NO COST TO MNDOT FOR REPLACEMENT OF INLET PROTECTION DEVICES.
- 13. PLACE CONSTRUCTION EXITS, AS NECESSARY, TO PREVENT TRACKING OF SEDIMENT ONTO PAVED SURFACES BOTH ON AND OFF THE PROJECT SITE. PROVIDE CONSTRUCTION EXITS OF SUFFICIENT SIZE TO PREVENT TRACK OUT. MAINTAIN CONSTRUCTION EXITS WHEN EVIDENCE OF TRACKING IS DISCOVERED. REGULAR STREET SWEEPING IS NOT AN ACCEPTABLE ALTERNATIVE TO PROPER CONSTRUCTION EXIT INSTALLATION AND MAINTENANCE.
- 14. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS OR TEMPORARY SEDIMENT TRAPS TO THE DESIGN CAPACITY AFTER ALL UPGRADIENT LAND DISTURBING ACTIVITY IS COMPLETED.
- 15. PROVIDE SCOUR PROTECTION AT ANY OUTFALL OF DEWATERING ACTIVITIES.
- 16. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
- 17. REMOVE SEDIMENT FROM STORMWATER SYSTEM AT THE END OF PROJECT.
- 18. PRESERVE A MINIMUM OF 50 FOOT NATURAL BUFFER OR (IF BUFFER IS INFEASIBLE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF LAND DISTURBANCE AND STORMWATER FLOWS TO THE SURFACE WATER.

# POLLUTION PREVENTION

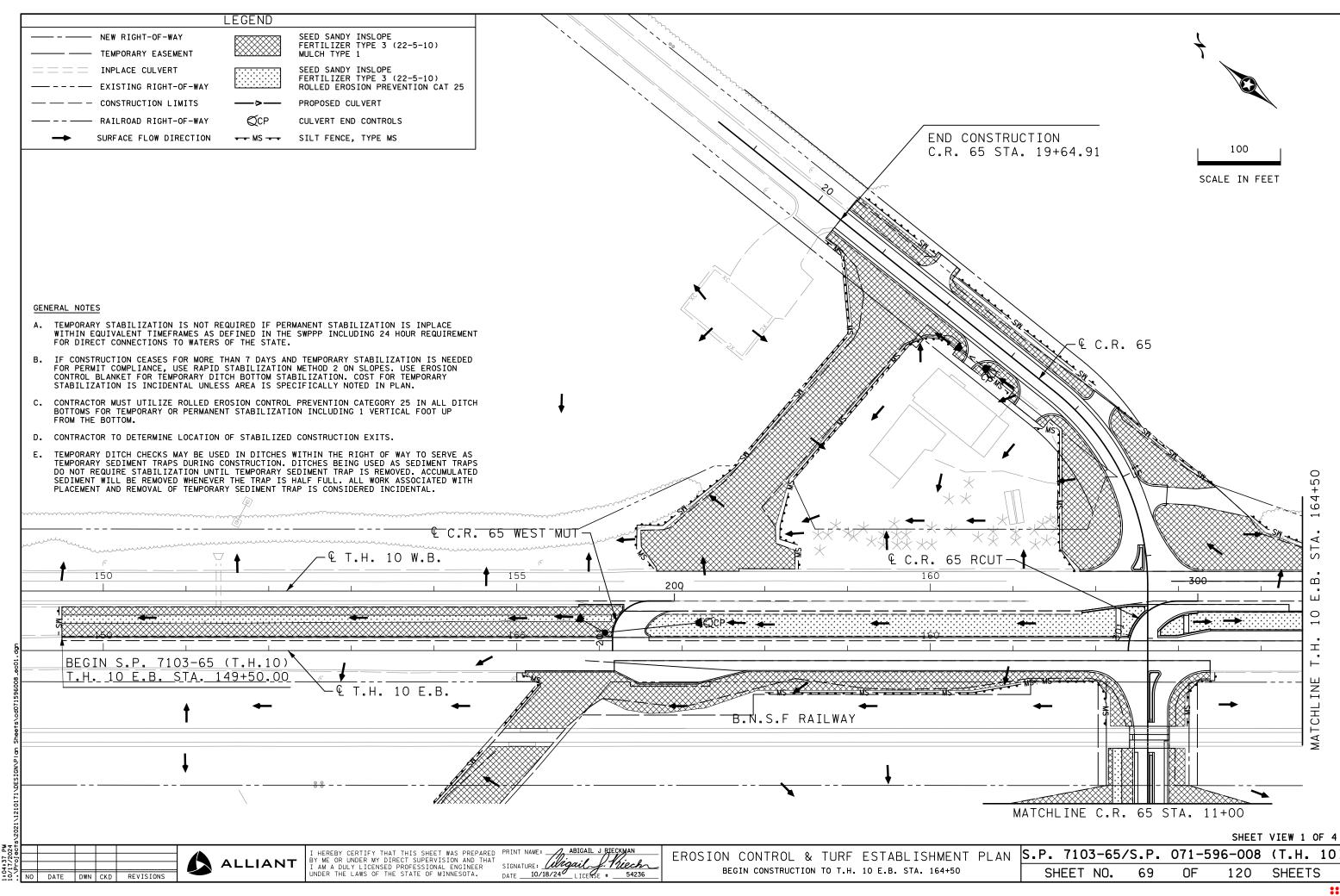
- 1. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE.
- 2. STORE ALL BUILDING MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS, PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS UNDER COVER AND WITH SECONDARY CONTAINMENT.
- 3. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY.
- 4. STORE. COLLECT AND DISPOSE OF ALL SOLID WASTE.
- 5. POSITION ALL PORTABLE TOILETS SO THAT THEY ARE SECURE AND CANNOT BE TIPPED OR KNOCKED OVER. PROPERLY DISPOSE OF ALL SANITARY WASTE.
- 6. FUEL AND MAINTAIN VEHICLES IN A DESIGNATED CONTAINED AREA WHENEVER FEASIBLE. USE DRIP PANS OR ABSORBENT MATERIALS TO PREVENT SPILLS OR LEAKED CHEMICALS FROM DISCHARGING TO SURFACE WATER OR STORMWATER CONVEYANCES. PROVIDE A SPILL KIT AT EACH LOCATION THAT VEHICLES AND EQUIPMENT ARE FUELED OR MAINTAINED AT.
- 7. LIMIT VEHICLE AND EQUIPMENT WASHING TO A DEFINED AREA OF THE SITE. CONTAIN RUNOFF FROM THE WASHING AREA TO A TEMPORARY SEDIMENT BASIN OR OTHER EFFECTIVE CONTROL. PROPERLY DISPOSE OF ALL WASTE GENERATED BY VEHICLE AND EQUIPMENT WASHING. ENGINE DEGREASING IS NOT ALLOWED ON THE SITE.
- 8. PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS. LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND. DESIGN THE CONTAINMENT SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR CONTAINMENT AREA.
- 9. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER.
- 10. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.
- 11. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT CONCRETE DUST, PARTICLES, CONCRETE WASH OUT, AND OTHER CONCRETE WASTES FROM LEAVING CONSTRUCTION LIMITS, DEPOSITING IN EXISTING OR FUTURE VEGETATED AREAS, AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT SAW CUT SLURRY AND PLANING WASTE FROM LEAVING CONSTRUCTION LIMITS AND FROM ENTERING STORMWATER CONVEYANCE SYSTEMS INCLUDING DITCHES AND CULVERTS.

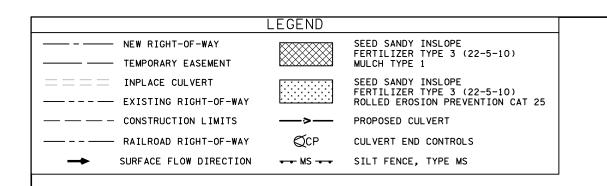
SHEFT 2 OF 2

**ALLIANT** 

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.





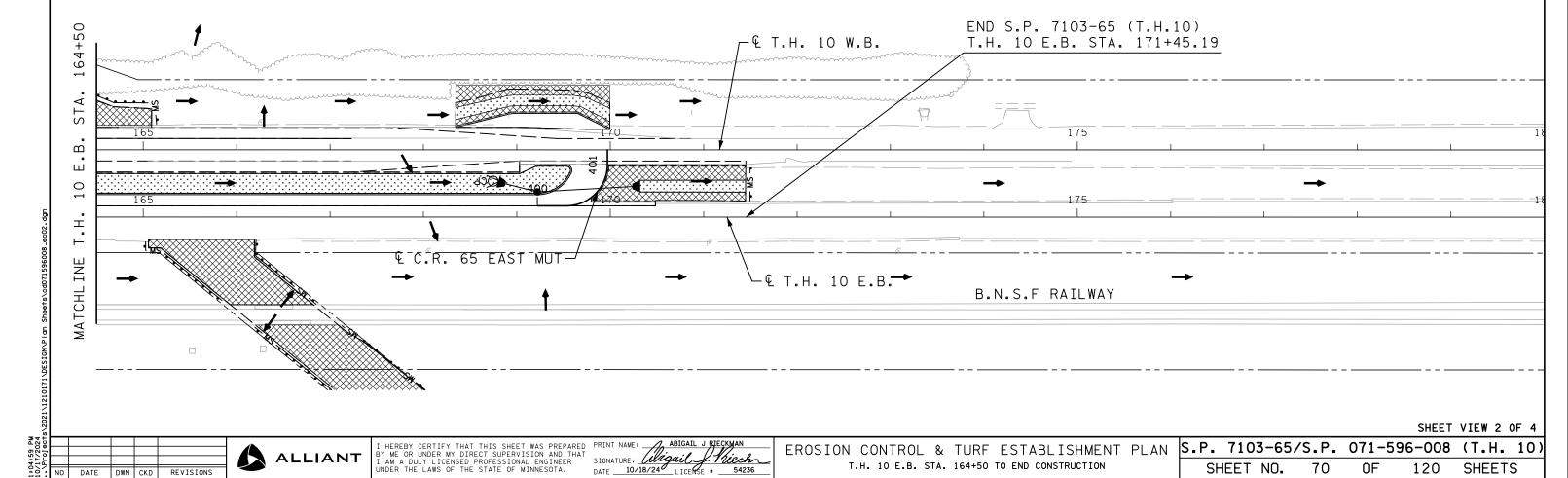


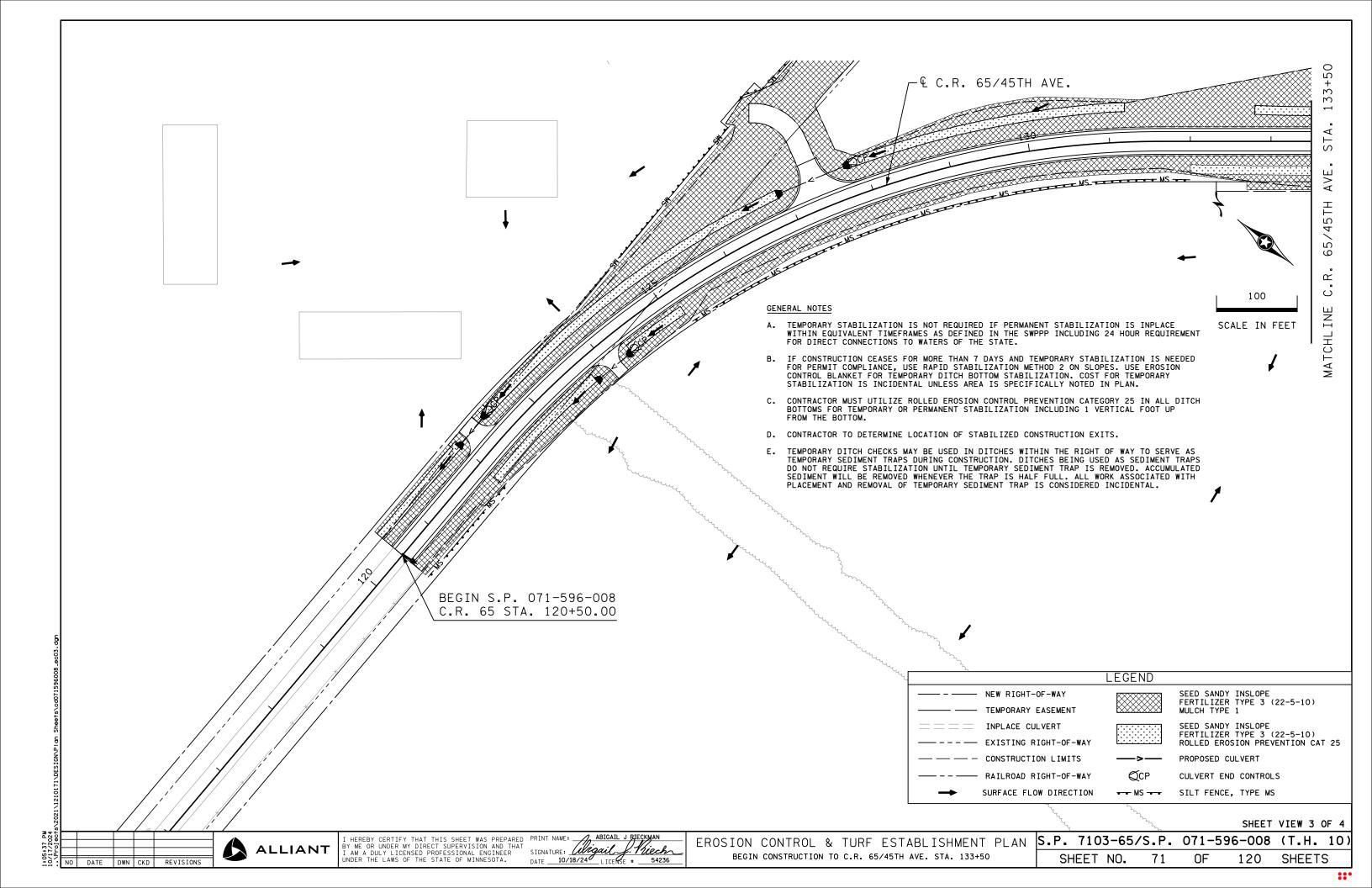
GENERAL NOTES

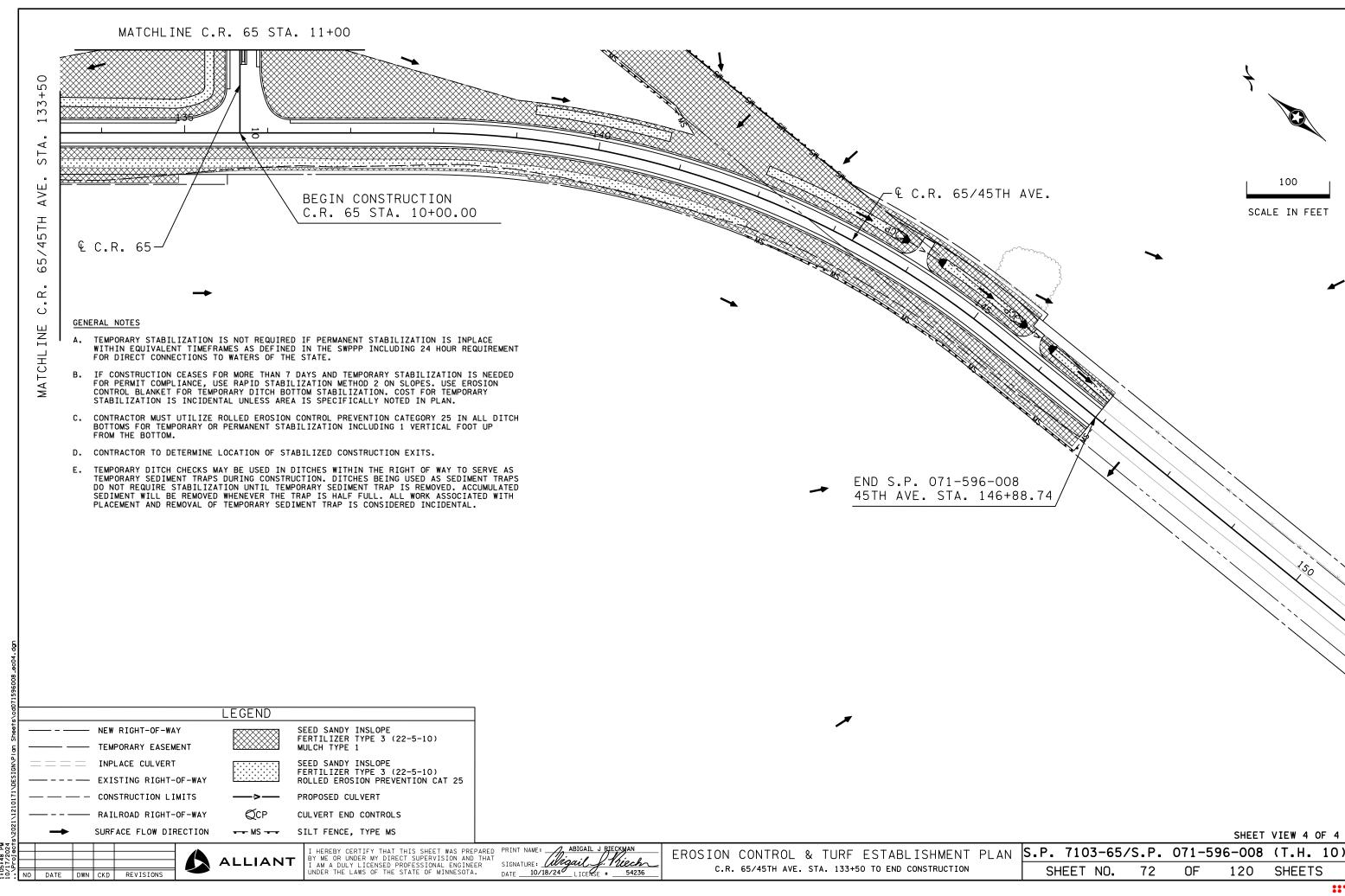
- A. TEMPORARY STABILIZATION IS NOT REQUIRED IF PERMANENT STABILIZATION IS INPLACE WITHIN EQUIVALENT TIMEFRAMES AS DEFINED IN THE SWPPP INCLUDING 24 HOUR REQUIREMENT FOR DIRECT CONNECTIONS TO WATERS OF THE STATE.
- B. IF CONSTRUCTION CEASES FOR MORE THAN 7 DAYS AND TEMPORARY STABILIZATION IS NEEDED FOR PERMIT COMPLIANCE, USE RAPID STABILIZATION METHOD 2 ON SLOPES. USE EROSION CONTROL BLANKET FOR TEMPORARY DITCH BOTTOM STABILIZATION. COST FOR TEMPORARY STABILIZATION IS INCIDENTAL UNLESS AREA IS SPECIFICALLY NOTED IN PLAN.
- C. CONTRACTOR MUST UTILIZE ROLLED EROSION CONTROL PREVENTION CATEGORY 25 IN ALL DITCH BOTTOMS FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING 1 VERTICAL FOOT UP FROM THE BOTTOM.
- D. CONTRACTOR TO DETERMINE LOCATION OF STABILIZED CONSTRUCTION EXITS.
- E. TEMPORARY DITCH CHECKS MAY BE USED IN DITCHES WITHIN THE RIGHT OF WAY TO SERVE AS TEMPORARY SEDIMENT TRAPS DURING CONSTRUCTION. DITCHES BEING USED AS SEDIMENT TRAPS DO NOT REQUIRE STABILIZATION UNTIL TEMPORARY SEDIMENT TRAP IS REMOVED. ACCUMULATED SEDIMENT WILL BE REMOVED WHENEVER THE TRAP IS HALF FULL. ALL WORK ASSOCIATED WITH PLACEMENT AND REMOVAL OF TEMPORARY SEDIMENT TRAP IS CONSIDERED INCIDENTAL.



100 SCALE IN FEET







# **NOTES & GUIDELINES**

# GENERAL INFORMATION:

1. ALL DISTANCES ARE APPROXIMATE.

# **SIGNING:**

- 1. ALL TEMPORARY SIGNS ARE REQUIRED TO BE CRASHWORTHY PER THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE 2016 (MASH-2016). TEMPORARY SIGN STRUCTURES THAT ARE CRASHWORTHY UNDER THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 (NCHRP-350) MAY BE USED PROVIDED THE DEVICES WERE ACQUIRED BY THE CONTRACTOR PRIOR TO DECEMBER 31ST, 2019. THE MINNESOTA TYPE "C" AND "D" BRACED LEG U-CHANNEL (KNEE BRACE) SIGN SUPPORT IS NOT ALLOWED.
- 2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE PLACED AS NEEDED, OR PROVIDE TEMPORARY SIGNING UNTIL THE FINAL SIGNING IS PLACED.
- 3 WHEN MULTIPLE GROUND MOUNTED SIGN STRUCTURES ARE PLACED ADJACENT TO EACH OTHER THERE SHOULD BE NO MORE THAN 2 POSTS WITHIN 84" OF EACH OTHER. WHEN THIS SPACING CAN NOT BE MAINTAINED, THEN SIGN STRUCTURES SHALL BE OFFSET, AND STAGGERED WITH A MINIMUM OF 4'BETWEEN SIGN STRUCTURES BOTH LATERALLY AND LONGITUDINALLY. EXAMPLE SHOWS DETOUR SIGNAGE, BUT THIS REQUIREMENT APPLIES TO ALL SIGNAGE.
- 4. WHEN A SIGN OR BARRICADE IS ORIENTED SUCH THAT VISIBILITY TO ROAD USERS INCLUDING BIKES AND PEDESTRIANS IS REDUCED ENOUGH TO CAUSE A HAZARD, DELINEATE THE SIGN/BARRICADE WITH APPROPRIATE DEVICES.
- 5. TEMPORARY SIGNS SHALL BE PLACED SUCH THAT OBSTACLES DO NOT BLOCK THEM FROM BEING VIEWED BY APPROACHING ROAD USERS. OBSTACLES MAY INCLUDE, BUT ARE NOT LIMITED TO, LIGHT POLES, TREES, SIGNS, AND BUILDINGS.
- 6. TEMPORARY SIGNS SHALL BE PLACED AND ORIENTED APPROXIMATELY AS SHOWN IN THE PLAN, AT RIGHT ANGLES TO DIRECTION OF AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE, UNLESS OTHERWISE SPECIFIED.
- 7. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL" PAGES (6K-aj) THRU (6K-al) UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
- 8. AFTER REMOVAL OF SIGN AND/OR SIGN BASE, BACK FILL, COMPACT, AND LEVEL SOIL TO MATCH SURROUNDING SOIL.

# PAVEMENT MARKING:

- 1. MASK OR REMOVE ANY CONFLICTING PAVEMENT MARKINGS AS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER.
- 2. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE, ALL PAVEMENT MARKINGS IN TAPERS AND TRANSITIONS SHALL BE 6" IN WIDTH.
- 3. SEE 2582 IN THE SPECIAL PROVISIONS FOR PAVEMENT MARKING SPOTTING RESPONSIBILITIES.

# **BARRIER & DELINEATION:**

1. PLACE AND MAINTAIN PORTABLE BARRIER DELINEATORS ANY TIME TRAFFIC IS WITHIN 10' OF BARRIER. DELINEATORS WILL EACH HAVE A MINIMUM OF 24 SQ IN. OF RETROREFLECTIVE SURFACE ON BOTH SIDES PLACED AT 25' SPACING ON TOP OF THE BARRIER. SIDE MOUNTED PORTABLE BARRIER DELINEATORS WILL HAVE A MINIMUM OF 12 SQ. IN. OF RETROREFLECTIVE SURFACE AREA AND BE PLACED AT 12.5' SPACING. IF A SMALLER APPROVED BARRIER DELINEATOR IS USED IT SHALL BE A MINIMUM OF 6 SQ IN. OF RETROREFLECTIVE SURFACE AREA AND BE PLACED ON BOTH SIDES AT 6.25' SPACING. TEMPORARY BARRIER DELINEATOR COLOR SHALL MATCH APPLICABLE PAVEMENT MARKING.

# **CONSTRUCTION INFORMATION SIGNING:**

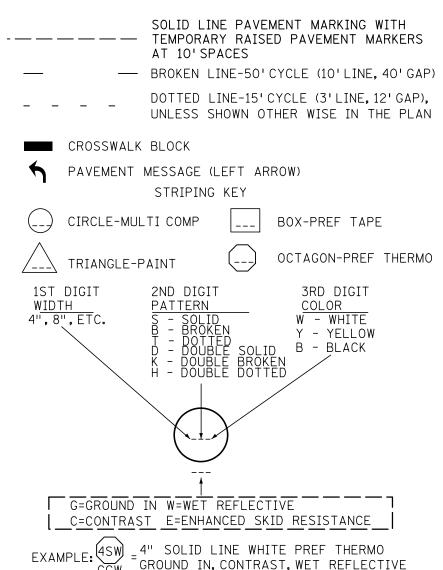
1. THE CONTRACTOR SHALL USE CONSTRUCTION INFORMATION SIGNING AS SHOWN IN THE PLAN WHICH ARE TO BE USED AS FOLLOWS:

PLACE THE G20-X1 ADVANCE CLOSURE NOTICE SIGN(S) 14 DAYS PRIOR TO THE PLANNED CLOSURE DATE.

PLACE G20-X2 ADVANCE NOTICE SIGNS 14 DAYS PRIOR TO THE WORK STARTING DATE. ONCE WORK BEGINS, COVER THE START DATE LEGEND WITH SUGGESTED PLAQUE CONTAINED IN THIS PLAN. IF NO ALTERNATE MESSAGE IS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER, DISPLAY THE CORRECT ESTIMATED FINISH DATE, MONTH, OR SEASON.

IF CONSTRUCTION INFORMATION SIGNING IS NO LONGER VISIBLE TO THE MOTORING PUBLIC ONCE WORK BEGINS, MOVE SAID SIGNING TO A SITE IN ADVANCE OF THE WORK ZONE OR CLOSURE AS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER.

# PAVEMENT MARKING SYMBOLS AND MATERIALS LEGEND



# INDEX

TRAFF	IC CONTROL NO. DESCRIPTIONS
73	TEMPORARY TRAFFIC CONTROL TITLE SHEET
74	TABULATION PAY ITEM
75	TRAFFIC CONTROL TABULATION
76	SPECIAL SIGN DETAILS
77	TEMPORARY SQUARE TUBE GROUN MOUNTED SIGN PLACEMENT
78	TEMPORARY SIGN COVERING
79	CONSTRUCTION INFORMATION SIGNING
80	DETOUR LAYOUT
81-94	TRAFFIC CONTROL PLANS

# TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

# SYMBOL DESCRIPTION

AREA CLOSED TO TRAFFIC / WORK AREA

TRAFFIC CONTROL SIGN

TYPE III BARRICADE = 

O DRUM-LIKE CHANNELIZER (TYPE B) =

TYPE A FLASHING WARNING LIGHT

# SYMBOL DESCRIPTION

FLASHING ARROW BOARD TYPE C = 333 (4' X 8' UNLESS OTHERWISE NOTED).

PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

PORTABLE PRECAST CONC BARRIER DES 8337 WITH DELINEATORS AT 25'SPACES (PPCB)

TEMPORARY IMPACT ATTENUATOR

) AUDIBL

AUDIBLE MESSAGE DEVICE (AMD)

UPDATED 12/20/2021

NO DATE DWN CKD REVISIONS

**ALLIANT** 

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: ABIGAIL J RIECKMAN

SIGNATURE: Wigail & Viech

DATE 12/16/22 LICENSE # 54236

TRAFFIC CONTROL PLAN

S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 73 OF 120 SHEETS

CES (PPCB )R

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TRAFFIC CONTROL TABULATION						
ITEM DESCRIPTION	LINITT	TOTAL	S.P. 7103	3-65 <b>(A)</b>	S.P. 071-596-008	
TIEM DESCRIPTION	UNIT	QUANTITY	STAGE 1	STAGE 2	S.P. 071-596-008 (B) 0.49	
TRAFFIC CONTROL	LUMP SUM	1	0.	51	0.49	
WORKERS PRESENT SPEED LIMIT SYSTEM	LUMP SUM	1		1		

(A) 80% FEDERAL/20% STATE FUNDS.

(B) 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

TRAFFIC CONTROL PLAN PAY ITEM TABULATION SHEET

S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 120 SHEETS

# TRAFFIC CONTROL TABULATION SHEET

	"G" SERIES							
	SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST	POST SPACING INCHES	
	WORK ZONE	G20-5aP	BLACK ON ORANGE	36" × 24"	36" X 96"	1		
	ROAD BOOK TO BEGINS	G20-X2	BLACK ON ORANGE	174" × 114"	174" X 132"	3	60	
1) 2)	ENDS FALL 2023	G20-X3	BLACK ON ORANGE	174" × 17 <b>.</b> 5"	1114 X 132"	3	60	

	"R" SERIES									
SIGN	SIGN SIGN COLOR		SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST	POST SPACING INCHES				
SPEED SPEED 155 65	R2-1	BLACK ON WHITE	36" × 48"	36" X 48" 36" X 96"	1					
\$300 FINE	R2-6bP	BLACK ON WHITE	36" × 24"	36" X 96"	1					
END WORK ZONE SPEED LIMIT	R2-12	BLACK ON WHITE	36" x 54"	36" X 54"	1					

BARRICA	DE MOUN	TED SIG	NS
SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)
DETOUR	M4-10	BLACK ON ORANGE	48" X 18"
	R3-1	BLACK AND RED ON WHITE	36" × 36"
	R3-2	BLACK AND RED ON WHITE	36" × 36"
ROAD CLOSED	R11-2M	BLACK ON WHITE	48" × 30"
LANE CLOSED	R11-2M	BLACK ON WHITE	48" × 30"
ROAD CLOSED TO THRU TRAFFIC	R11-4	BLACK ON WHITE	60" X 30"
			-

			"M" SERIE	<u> </u>		
SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST	POST SPACING INCHES
DETOUR END DETOUR	M4-8 M4-8a	BLACK ON ORANGE	24" X 12" 24" X 18"			
EAST (WEST)	M3-2 M3-4	BLACK ON WHITE	24" X 12" 36" X 18"			
SERBRE 65 COUNTY	M1-6m	WHITE AND YELLOW ON BLUE	24" X 24"	24" X 54" 24" X 63"	1	
	M5-1	BLACK ON WHITE	21" X 15" 30" X 21"	36" X 75"	1	
	M6-1	BLACK ON WHITE	21" X 15" 30" X 21"			
	M6-3	BLACK ON WHITE	21" X 15" 30" X 21"			

"W" SERIES							
SIGN	SIGN NO.	COLOR	SIZE (IN. X IN.) (W×H)	ASSEMBLY (IN. X IN.) (W×H)	NUMBER OF POST	POST SPACING INCHES	
[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	W3-5	BLACK ON YELLOW	48" X 48"	48" X 48"	1		
	W4-2	BLACK ON YELLOW	48" X 48"	48" X 48"	1		
ROAD WORK AHEAD	W20-1	BLACK ON ORANGE	48" X 48"	48" X 48" 48" X 84"	1		
DETOUR	<b>W</b> 20-2	BLACK ON ORANGE	48" X 48"	48" X 84"	1		
ROAD CLOSED AHEAD	W20-3	BLACK ON ORANGE	48" X 48"	48" X 84"	1		
RIGHT LEFT TURN LANE CLOSED CLOSED CLOSED	W20-X5	BLACK ON ORANGE	48" × 48"	48" x 48"	1		

DEVICES						
ITEM	SIGN NO.	COLOR	SIZE			
	TYPE III (LT)	WHITE ON ORANGE	6'MIN			
4444	TYPE III (RT)	WHITE ON ORANGE	6'MIN			
••••	TYPE C		4' X 8'			
Ē	WARNING LIGHT TYPE A FLASH	AMBER				

- 1) SEE SPECIAL SIGN DETAILS SHEET FOR SIGN DETAILS.
- USE 4" SLIP BASE SQUARE TUBE POSTS.

# GENERAL NOTES:

- 1. SIGN STRUCTURE TABULATIONS INDICATE SQUARE TUBE GROUND MOUNTED SIGN STRUCTURES THAT ARE MASH-16 COMPLIANT.
- 2. USE PRODUCTS FROM THE BASES FOR SQUARE TUBE SIGN STRUCTURES APPROVED/QUALIFIED PRODUCTS LIST FOR THE INDICATED SQUARE TUBE RISER POST SIZE. PLACE PER THE MANUFACTURER'S SPECIFICATIONS.
- ALUMINUM STRINGERS SHALL BE USED FOR SIGNS 36 INCHES AND WIDER. SEE MANUFACTURER'S SPECIFICATIONS FOR SQUARE TUBE MOUNTING DETAILS.
   STRINGERS ON SINGLE POST ASSEMBLIES ARE REQUIRED TO BE AT LEAST 9 INCHES IN FROM THE EDGE OF THE SIGN.
   UNLESS OTHERWISE INDICATED, USE 2-1/2 INCH RISER POSTS FOR GROUND MOUNTED SIGN STRUCTURES.

NO DATE DWN CKD REVISIONS

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME:

ABIGAIL J RIECKMAN

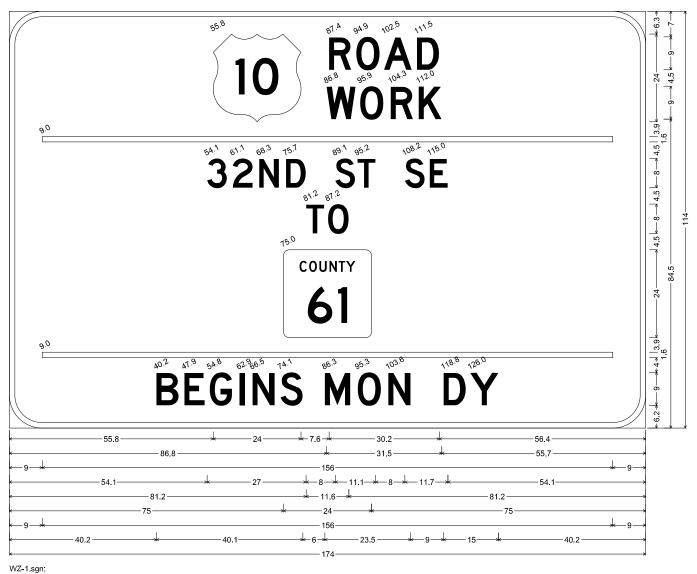
SIGNATURE:

Wiggil J Viech

DATE 2/18/25 LICENSE # 54236

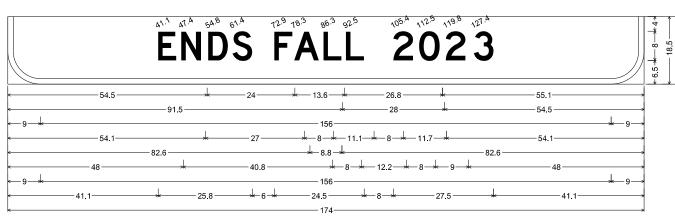
TRAFFIC CONTROL PLAN TRAFFIC CONTROL TABULATION SHEET

S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 75 120 SHEETS



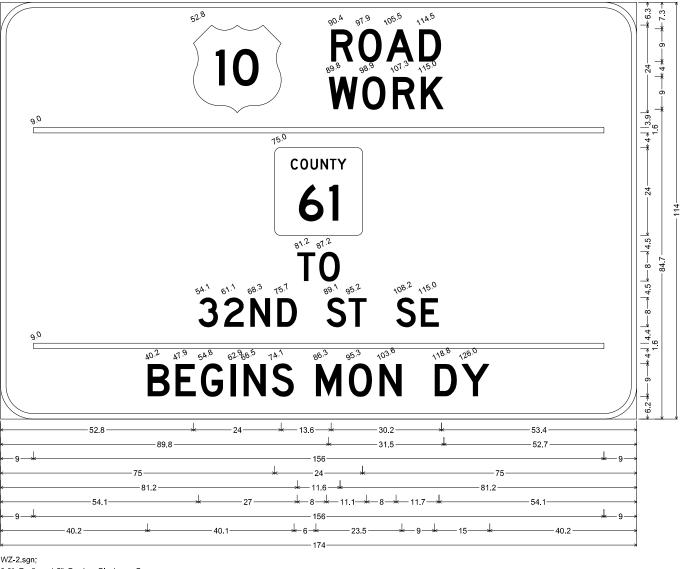
9.0" Radius, 1.5" Border, Black on Orange;

US 10 M1-4; "ROAD", D 2K; "WORK", D 2K; "32ND ST SE", D 2K; "TO", D 2K; "BEGINS", D 2K; "MON DY", D 2K;



9.0" Radius, 1.5" Border, Black on Orange;

US 10 M1-4; "ROAD", D 2K; "WORK", D 2K; "32ND ST SE", D 2K; "TO", D 2K; "COUNTY RD 61", D 2K; "ENDS", D 2K; "FALL 2023", D 2K;



US 10 M1-4; "ROAD", D 2K; "WORK", D 2K; "TO", D 2K; "32ND ST SE", D 2K; "BEGINS", D 2K; "MON DY", D 2K;

# GENERAL NOTES

- A. ALL DIMENSIONS ARE IN INCHES.
- B. ALL SIGNS ON THIS SHEET ARE INCLUDED IN THE TRAFFIC CONTROL LUMP SUM QUANTITY.

ALLIANT

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PRINT NAME:

ABIGAIL J RIECKMAN

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TRAFFIC CONTROL PLAN SPECIAL SIGN DETAILS

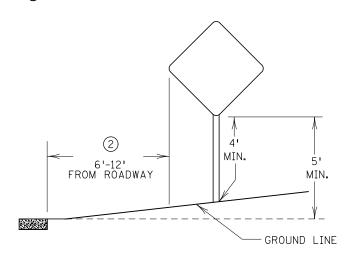
S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 120 SHEETS

# **GENERAL NOTES**;

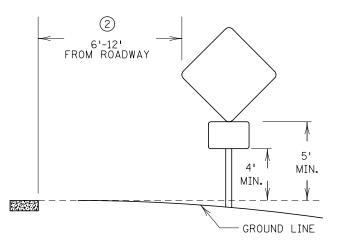
- 1. GROUND MOUNTED SQUARE TUBE SIGN STRUCTURES PLACED WITHIN 50'OF THE RADIUS END OF AN INTERSECTION SHALL BE PLACED ON ONE 2"OR 2-1/2"POST. 2. FOR 2" SQUARE TUBE RISER POST IN SOIL, USE FIN BASE PLACED PER MANUFACTURER'S SPECIFICATIONS. USE A 2" X 2" PRE-PUNCHED, GALVANIZED STEEL, SQUARE TUBE RISER POST. PLACE 3/8" STAINLESS STEEL BOLT THROUGH THE 5TH HOLE DOWN FROM THE TOP OF THE BASE. RISER POST SHALL REST
- 3. FOR 2-1/2" SQUARE TUBE RISER POST IN SOIL, USE SLIP BASE PLACED PER MANUFACTURER'S SPECIFICATIONS USING A 10 GAUGE , 2-1/2" X 2-1/2" PRE-PUNCHED, GALVANIZED STEEL, SQUARE TUBE RISER POST WITH A 10 GAUGE 2-3/16" X 2-3/16" PRE-PUNCHED, GALVANIZED STEEL, SQUARE TUBE INTERNAL INSERT.

# **SPECIFIC NOTES:**

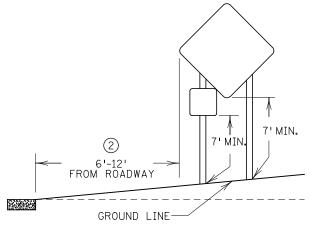
- ① IF ANY PART OF A SIGN OR SIGN ASSEMBLY EXTENDS MORE THAN 4" INTO THE PEDESTRIAN FACILITY, THE MINIMUM HEIGHT TO BOTTOM OF THE SIGN OR SIGN ASSEMBLY SHALL BE 7'.
- 6'-12'FROM EDGE OF ROADWAY, MUST BE A MINIMUM OF 6'FROM EDGE OF PAVED SHOULDER (WHEN PRESENT).
- IF GROUND MOUNTED TEMPORARY SIGN OR SIGN ASSEMBLY IS PLACED ON 2-1/2" SQUARE TUBE RISER POST(S), THE MINIMUM CLEARANCE FROM THE GROUND LINE TO THE BOTTOM OF THE LOWEST SIGN ON THE ASSEMBLY SHALL BE 7', OR AS SHOWN IN DETAIL, WHICHEVER IS GREATER.
- (4) 5'MINIMUM IN RURAL. 7'MINIMUM IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREAS.
- WHEN MULTIPLE GROUND MOUNTED SIGN STRUCTURES ARE PLACED ADJACENT TO EACH OTHER THERE SHOULD BE NO MORE THAN 2 POSTS WITHIN 84" OF EACH OTHER. WHEN THIS SPACING CAN NOT BE MAINTAINED, THEN SIGN STRUCTURES SHALL BE OFFSET, AND STAGGERED WITH A MINIMUM OF 4 BETWEEN SIGN STRUCTURES BOTH LATERALLY AND LONGITUDINALLY EXAMPLE SHOWS DETOUR SIGNAGE, BUT THIS REQUIREMENT APPLIES TO ALL SIGNAGE.
- 6 INPLACE AND/OR OTHER CONSTRUCTION SIGNING.



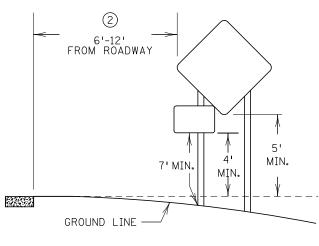
TYPICAL RURAL DESIGN AND 2" RISER POST



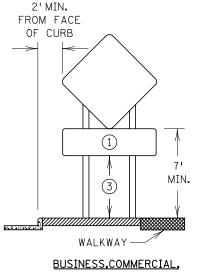
TYPICAL RURAL DESIGN WITH SUPPLEMENTAL PLAQUE AND 2" RISER POST



TYPICAL RURAL DESIGN WITH SUPPLEMENTAL PLAQUE AND 2-1/2" RISER POST



TYPICAL RURAL DESIGN 2-1/2" RISER POST

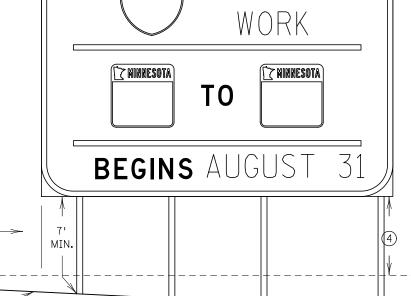


OR RESIDENTIAL AREA

2 6'-12'

FROM ROADWAY

GROUND LINE



NOT TO SCALE

MINNESOTA

65

 $\langle \frac{1}{2} \rangle$ 

DETOUR

WEST

MINNESOTA

 $\Rightarrow$ 

East

MINNESOTA

4'MIN

OFFSET

4'MIN OFFSET

CONSTRUCTION SIGN POST OFFSET SPACING

(5)

INTERSTATE

TYPICAL G20-X2 DESIGN

3/15/2021

DWN CKD REVISIONS

**ALLIANT** 

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME:

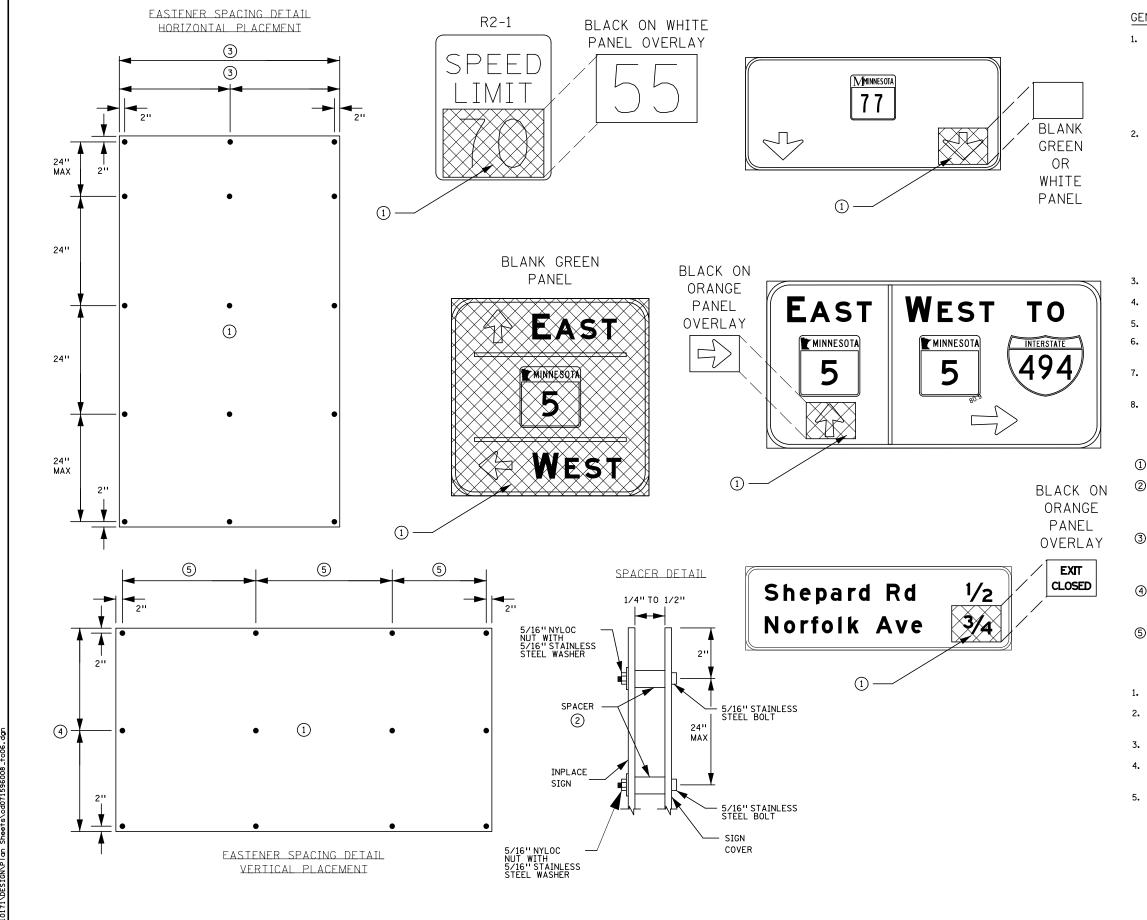
SIGNATURE:

DATE

12/16/22

LICENSE # 54236

TRAFFIC CONTROL PLAN TEMP. SQ. TUBE GROUND MOUNTED SIGN PLACEMENT S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 120 SHEETS



## GENERAL NOTES:

- 1. SIGN COVER PANELS ARE USED TO COVER AN ENTIRE INPLACE SIGN PANEL OR A PORTION THEREOF TO REMOVE OR MODIFY THE SIGN MESSAGE. THEY HAVE NO ADDITIONAL MESSAGE PRINTED ON THEM. SIGN COVER PANELS SHALL BE MADE OF A RIGID MATERIAL (SHEET ALUMINUM, PLYWOOD, CORRUGATED PLASTIC, OR OTHER MATERIAL AS APPROVED BY THE ENGINEER). SIGN COVER PANELS SHALL BE THE SAME COLOR AS THE BACKGROUND COLOR OF THE INPLACE SIGN PANEL AND SHALL COVER THE ENTIRE SIGN PANEL OR MESSAGE ELEMENT.
- SIGN PANEL OVERLAYS ARE USED TO MODIFY THE MESSAGE OF AN INPLACE SIGN PANEL. THEY INCLUDE A SIGN MESSAGE. SIGN PANEL OVERLAYS SHALL BE MADE OF SHEET ALUMINUM WITH THE APPROPRIATE SHEETING MATERIAL AS SPECIFIED ON THE MNDOT SHEETING FOR RIGID PERMANENT SIGNS, DELINEATORS, AND MARKERS APL OR THE MNDOT SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS APL. SIGN PANEL OVERLAY MESSAGES SHALL BE BLACK ON FLUORESCENT ORANGE, EXCEPT ON REGULATORY SIGNS WHICH SHALL BE THE PROPER COLOR ON A WHITE BACKGROUND. THE MESSAGE SHALL FOLLOW THE MEQUIFEMENTS OF THE MIDDOT STANDARD SIGNS AND MARKINGS MANUAL OR THE FHWA STANDARD HIGHWAY SIGNS MANUAL (AND SUPPLEMENTS). THE SIGN PANEL OVERLAY SHALL FULLY COVER THE MESSAGE ELEMENT(S) BEING MODIFIED.
  MINIMIZE DAMAGE TO THE INPLACE SIGN PANEL DO NOT APPLY
- TAPE TO THE INPLACE SIGN SHEETING.
- SPACERS SHALL BE A MATERIAL THAT WILL NOT HARM THE INPLACE SIGN SHEETING FACE (SUCH AS PLASTIC OR RUBBER).
- ATTACH SIGN COVER PANEL OR PANEL OVERLAY USING HARDWARE SHOWN IN THE SPACER DETAIL.

  IF SHEET METAL SCREWS ARE USED TO PLACE CORRUGATED PLASTIC AS A SIGN COVER PANEL, PLACE FENDER WASHERS BETWEEN THE SCREW HEADS AND THE CORRUGATED PLASTIC.
- REMOVE ALL COVERING MATERIAL MOUNTING HARDWARE, AND FASTENERS WHEN SIGN COVER PANEL OR PANEL OVERLAY IS REMOVED.
- NO HANDLE OR OTHER LIFTING DEVICE SHALL BE LEFT ATTACHED TO ANY SIGN COVER PANEL AFTER PLACEMENT.

## **SPECIFIC NOTES:**

- ① THE SIGN COVER PANEL OR PANEL OVERLAY SHALL FULLY COVER THE MESSAGE BEING COVERED OR MODIFIED.
- 2 PLACE SIGN COVER PANELS AND PANEL OVERLAYS WITH SPACERS THAT PROVIDE A SPACING OF 1/4 IN TO 1/2 IN BETWEEN THE COVER MATERIAL AND THE INPLACE SIGN. THE SPACERS SHALL HAVE AN OUTSIDE DIAMETER BETWEEN 3/8 IN TO 7/8 IN. EACH FASTENER REQUIRES A SPACER.
- TO 7/8 IN. EACH FASTENER REQUIRES A SPACER.

  (3) IF THE SIGN COVER PANEL OR PANEL OVERLAY IS GREATER THAN 48 IN WIDE, THE FASTENER SPACING SHALL BE NO GREATER THAN 24 IN. IF THE SIGN COVER PANEL OR PANEL OVERLAY IS LESS THAN 24 IN WIDE, DO NOT PLACE A CENTER FASTENER (UNLESS REQUIRED BY SPECIFIC NOTE (4)).

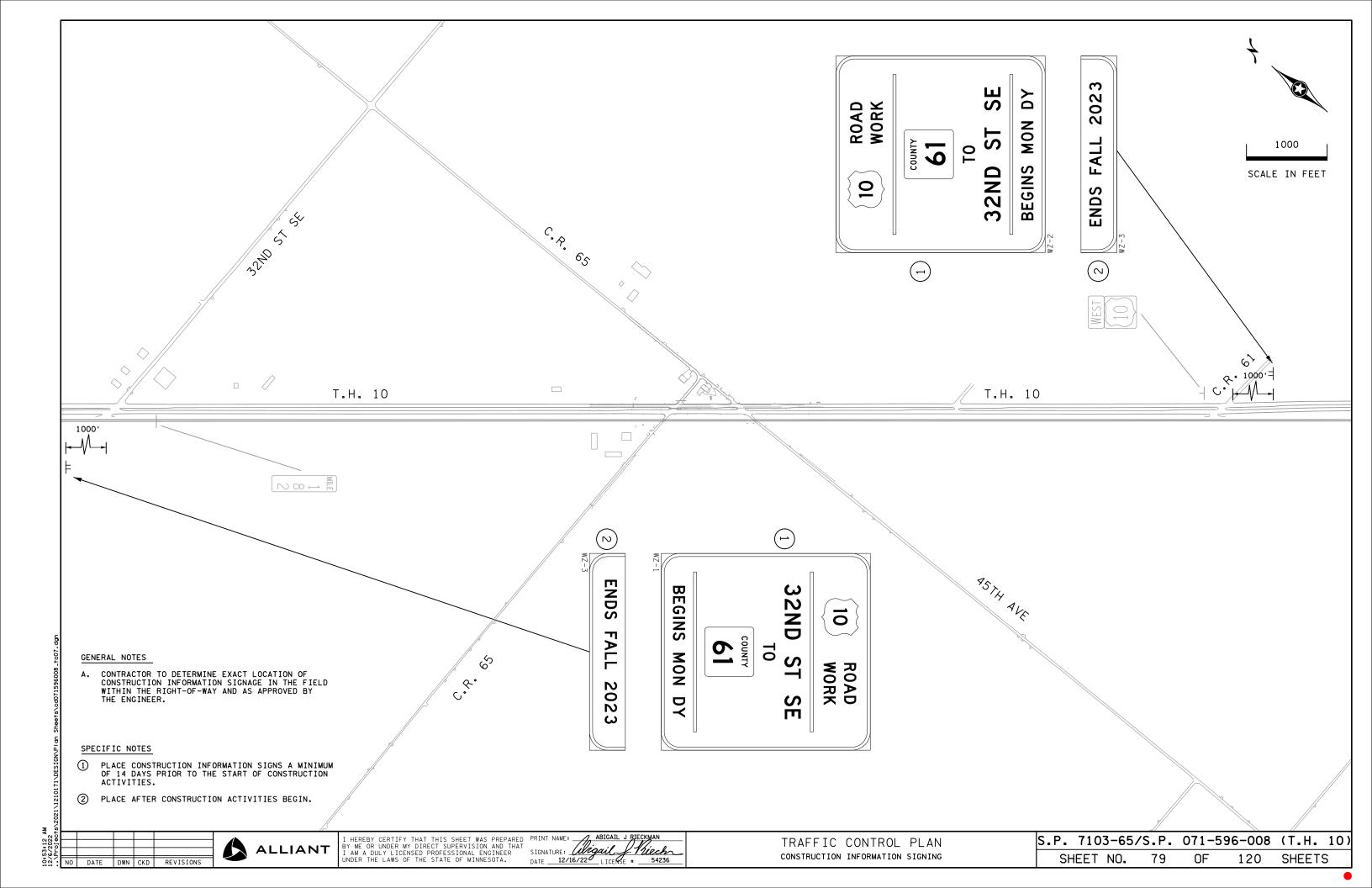
  (4) VERTICAL SPACING FOR FASTENERS IS 50% OF THE SIGN COVER PANEL OR PANEL OVERLAY. IF THE SIGN COVER PANEL
- OR PANEL OVERLAY IS LESS THAN 24 IN HIGH, DO NOT PLACE A CENTER FASTENER (UNLESS REQUIRED PER SPECIFIC NOTE (5)).
- (5) HORIZONTAL SPACING FOR FASTENERS SHALL NOT BE LESS THAN 15 IN NOR MORE THAN 24 IN.

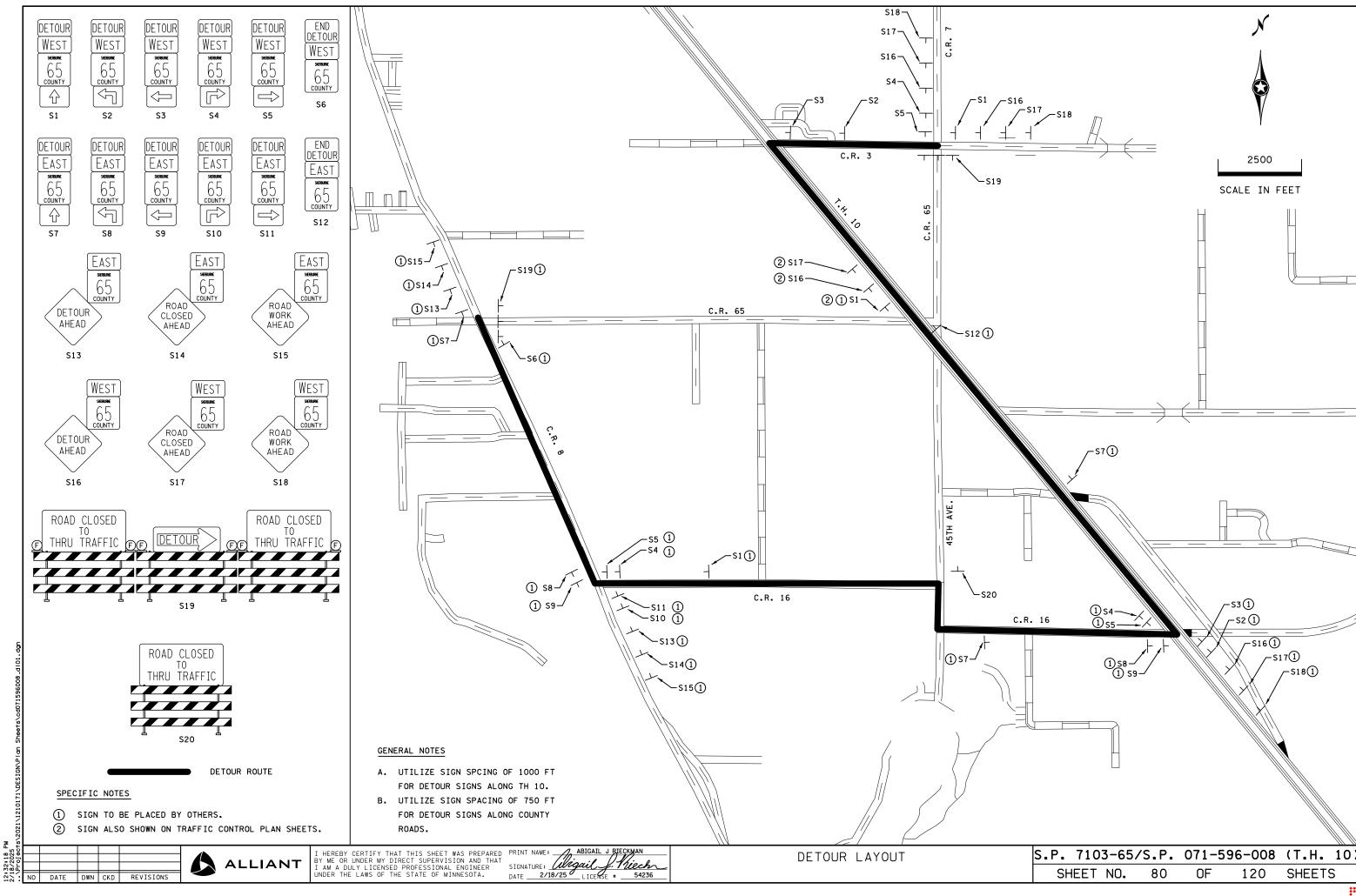
## ASSEMBLY STEPS

- DRILL 11/32 IN HOLES ON THE SIGN COVER PANEL OR PANEL OVERLAY IN ACCORDANCE WITH THE FASTENER SPACING DETAILS.
- ATTACH PLASTIC SPACERS TO SIGN COVER PANEL OR PANEL OVERLAY WITH DOUBLE FACED TAPE, CENTERED BEHIND EACH DRILLED HOLE.
- POSITION THE COVER OR OVERLAY MATERIAL OVER THE SIGN OR MESSAGE TO BE MODIFIED.
- DRILL ALL THE OUTSIDE HOLES THROUGH THE INPLACE SIGN PANEL AND ATTACH THE COVER OR OVERLAY MATERIAL WITH APPROPRIATE FASTENERS.
- DRILL ALL THE INNER HOLES THROUGH THE INPLACE SIGN PANEL AND ATTACH WITH APPROPRIATE FASTENERS.

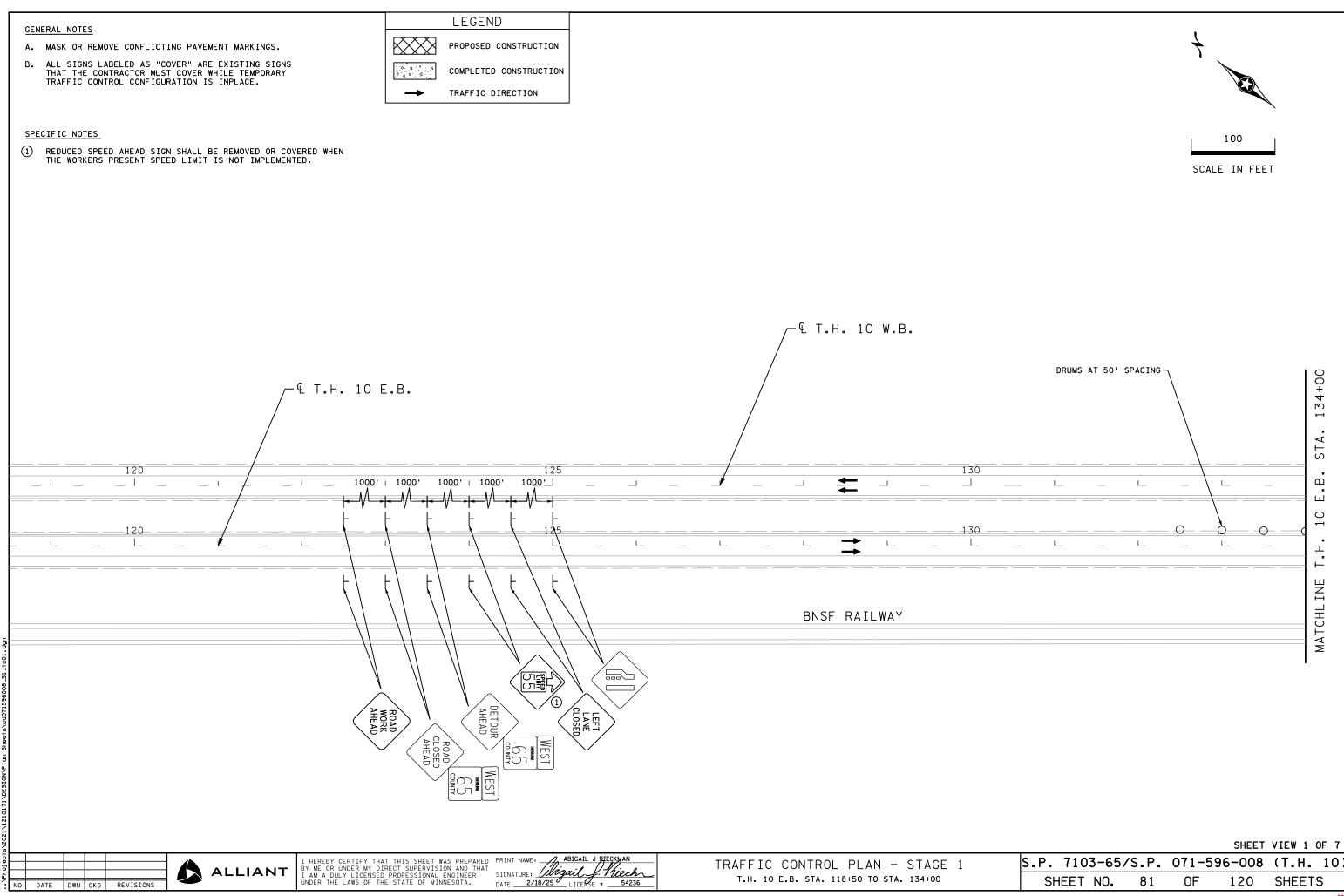
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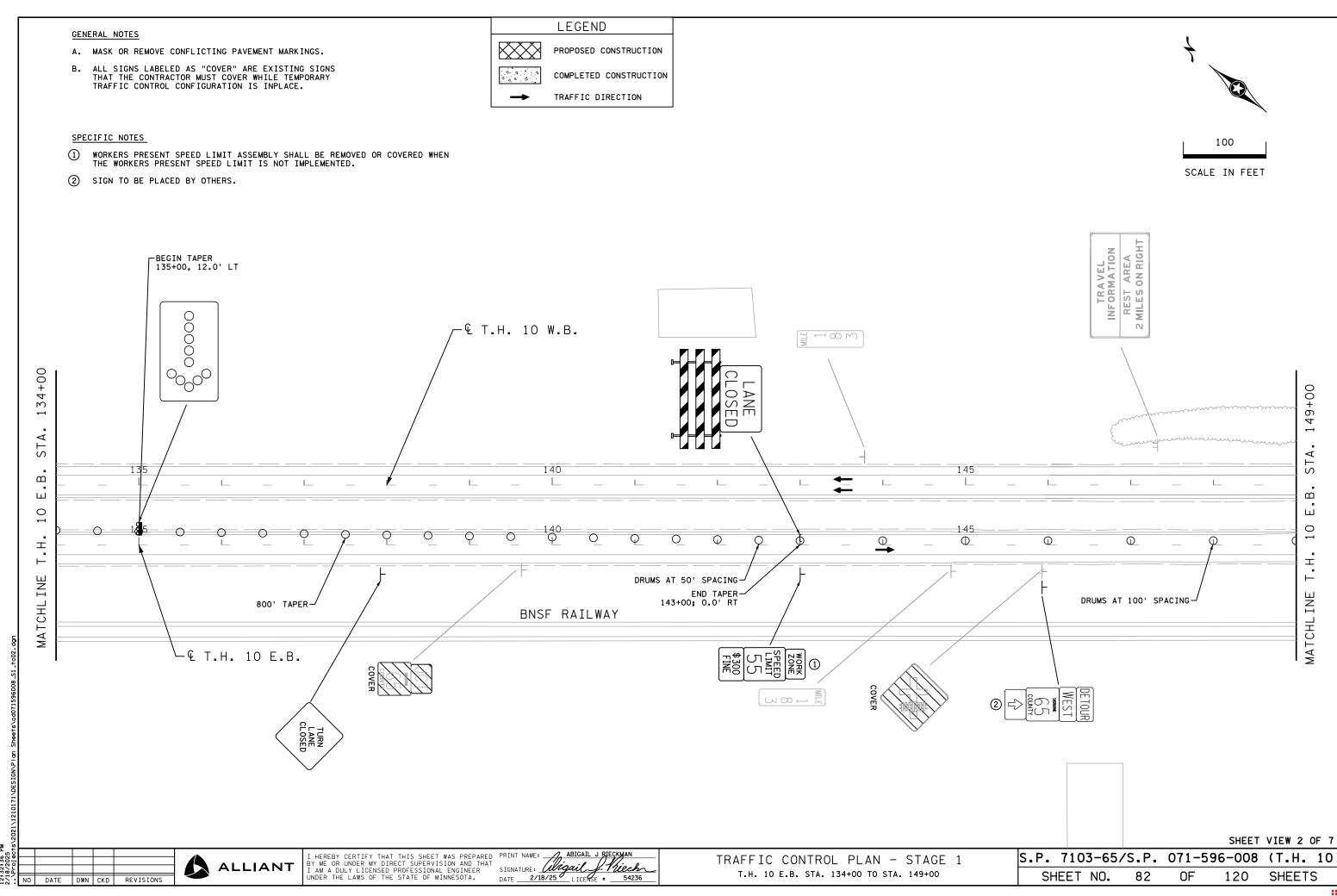
NO DATE DWN CKD REVISIONS

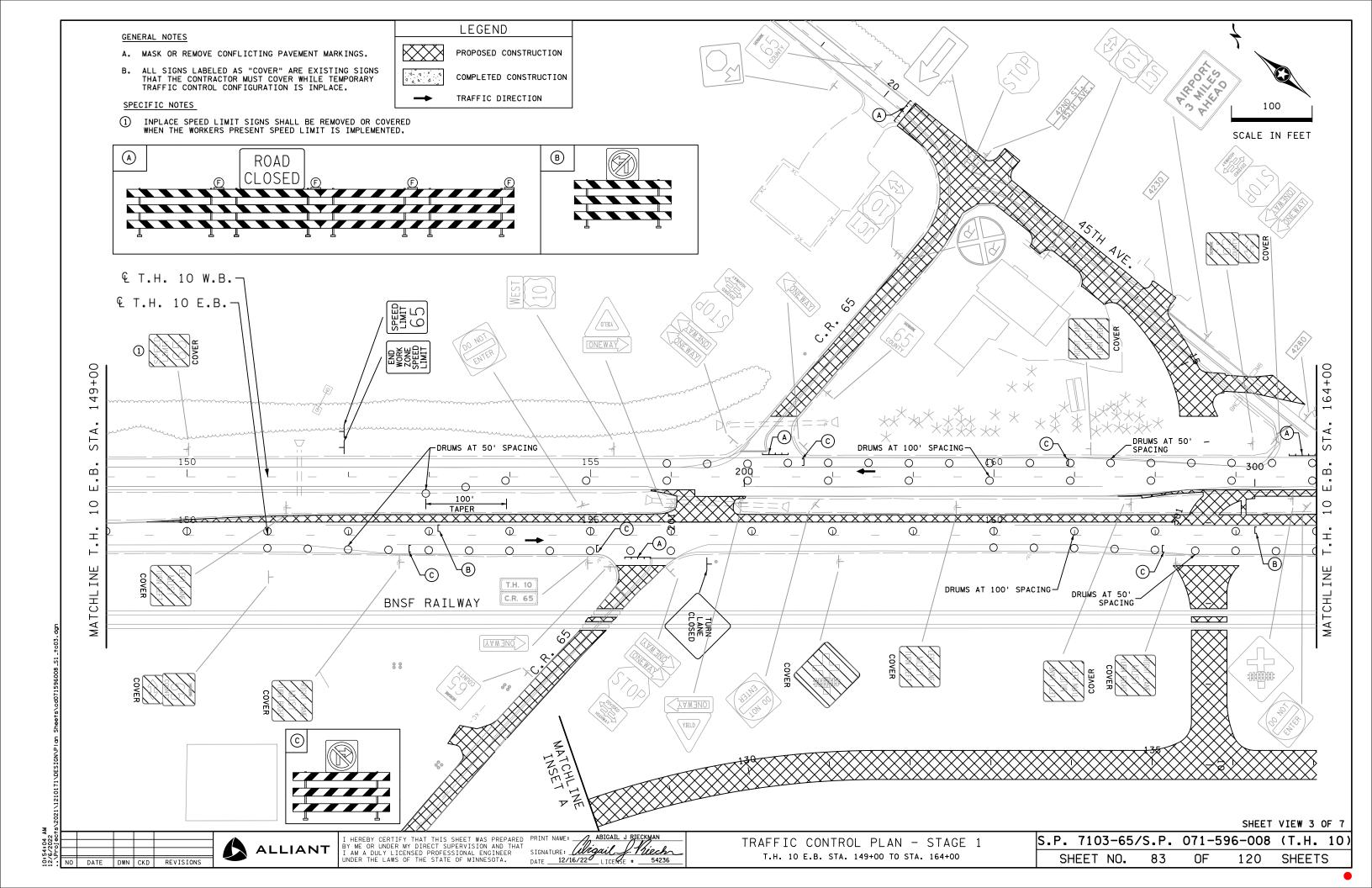


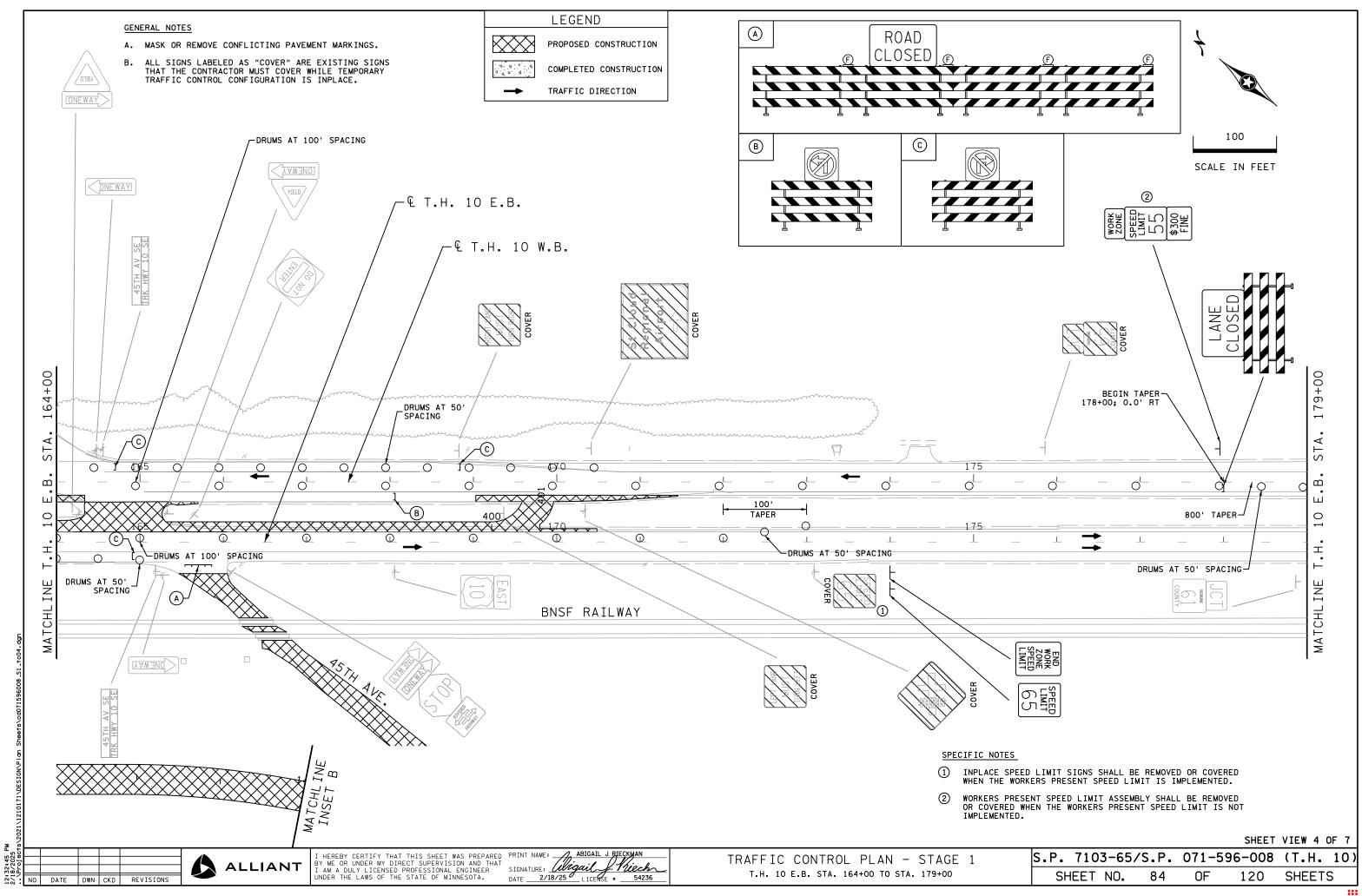


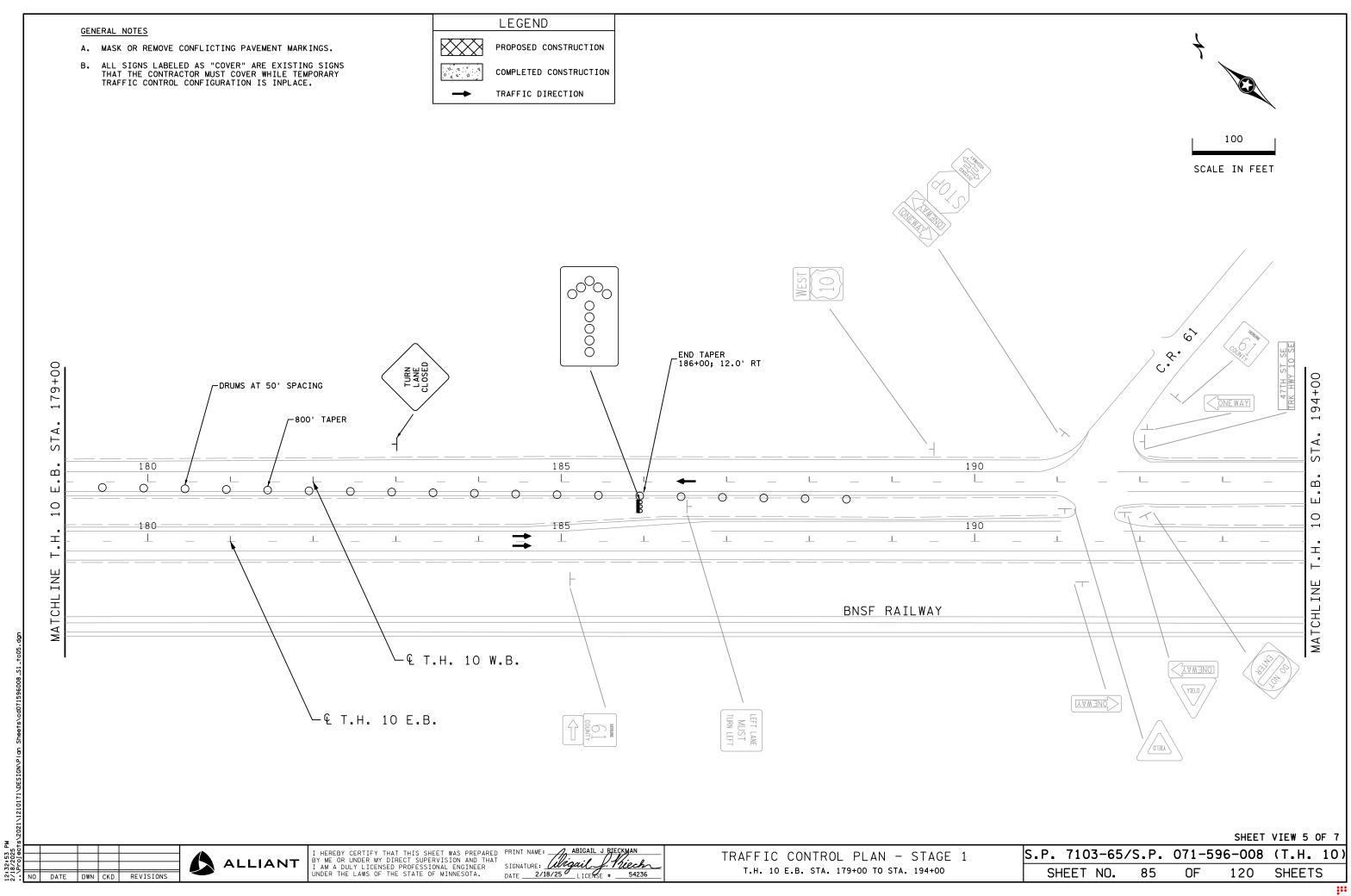
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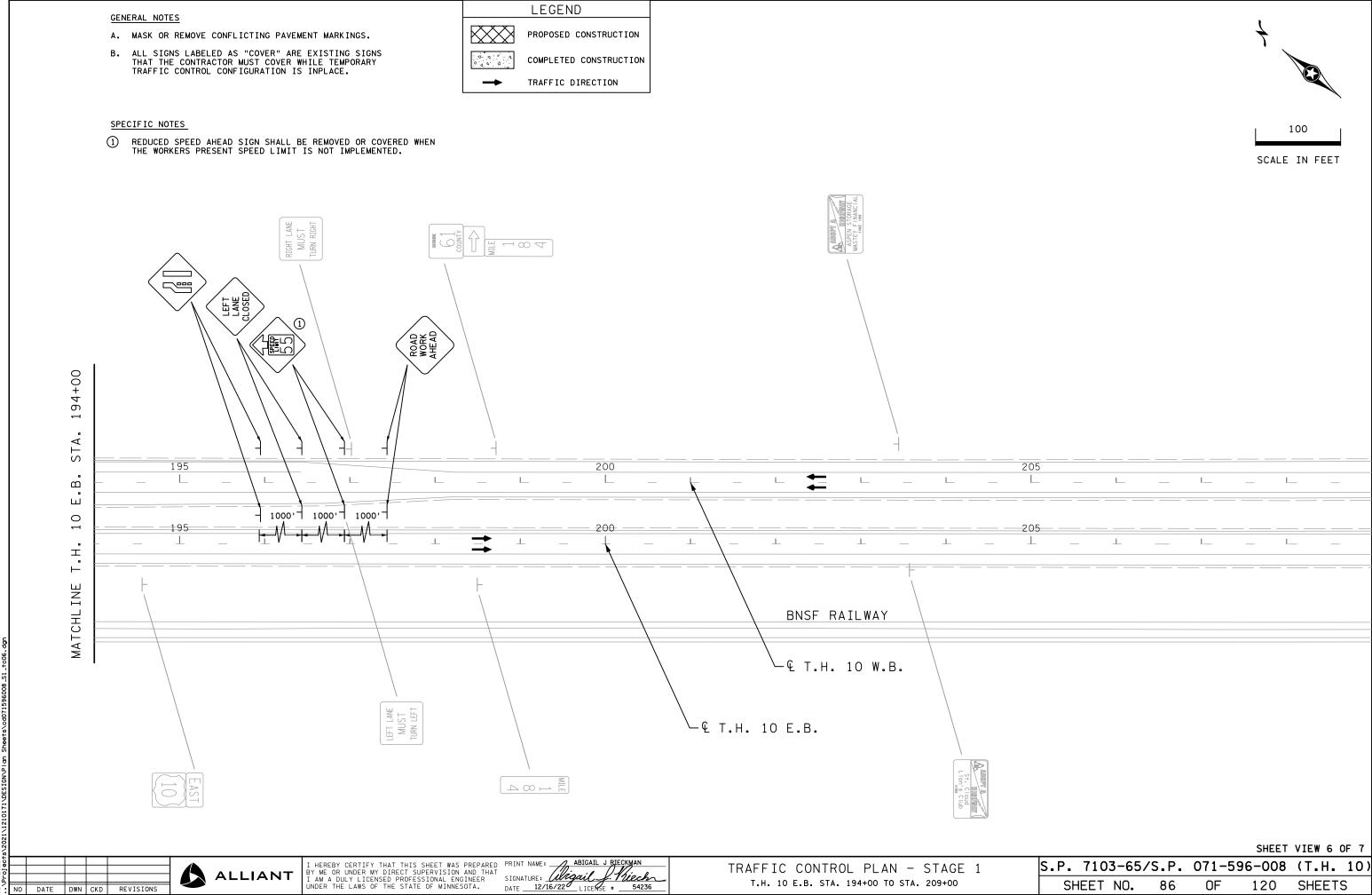




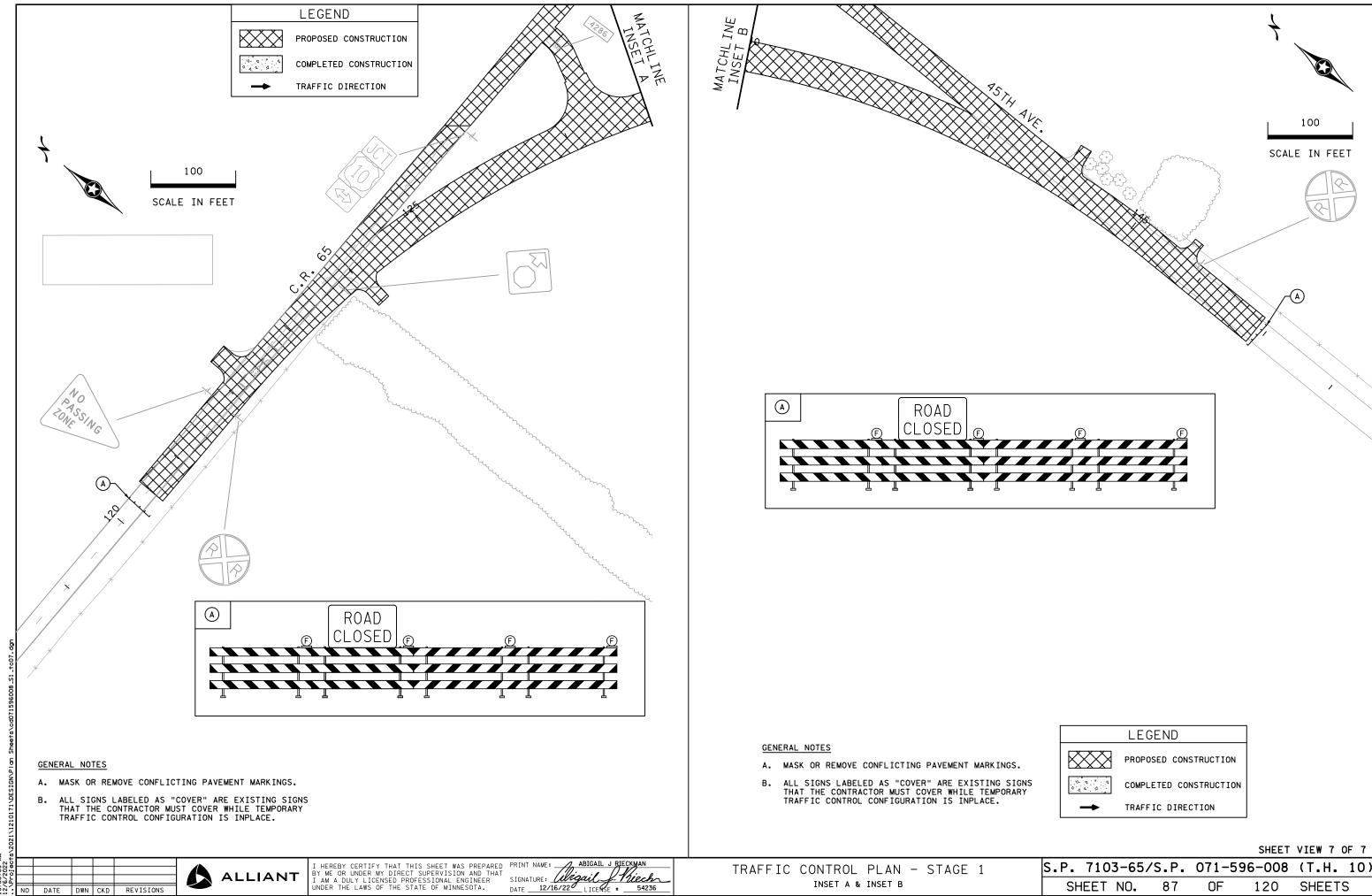


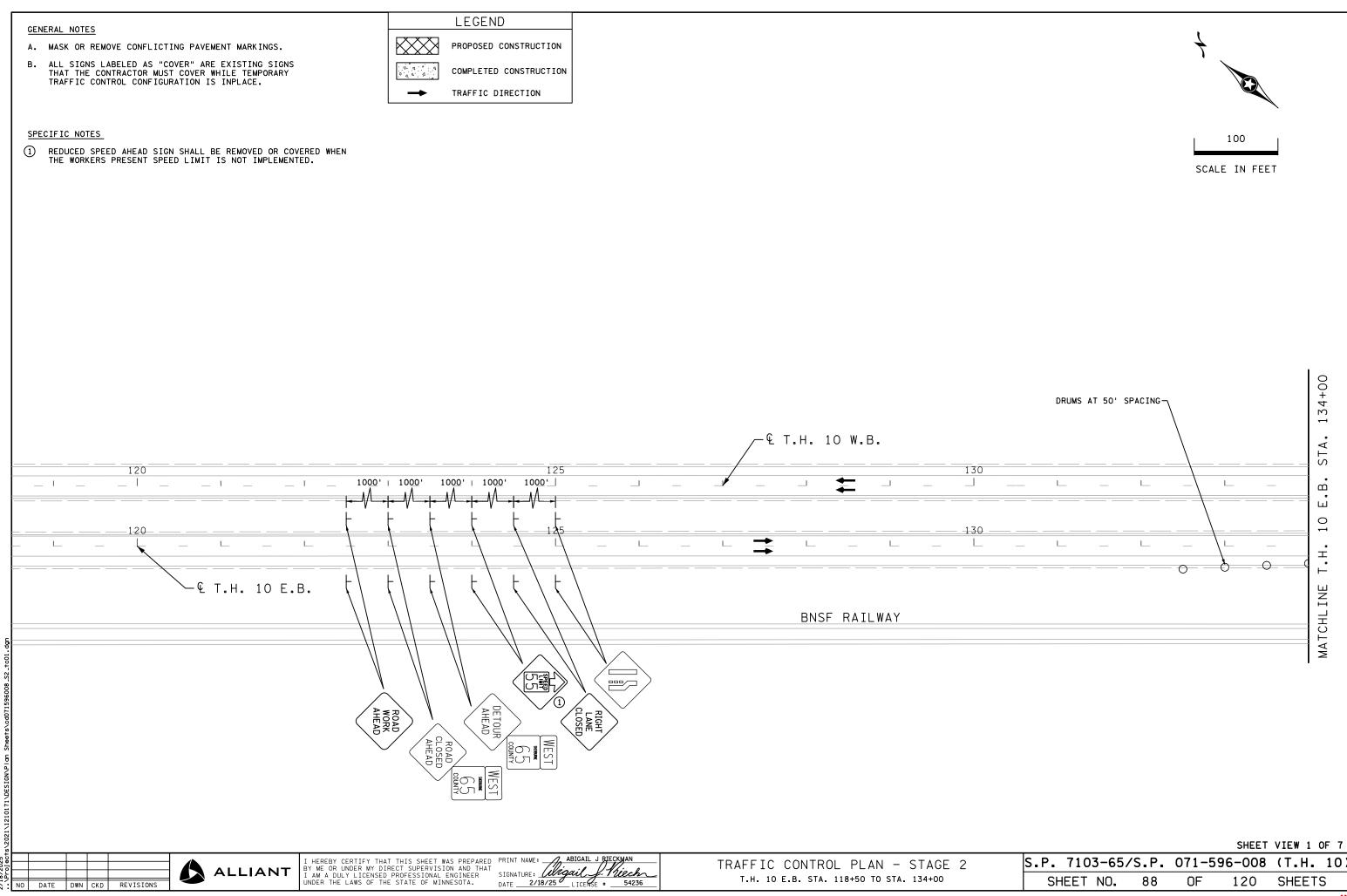


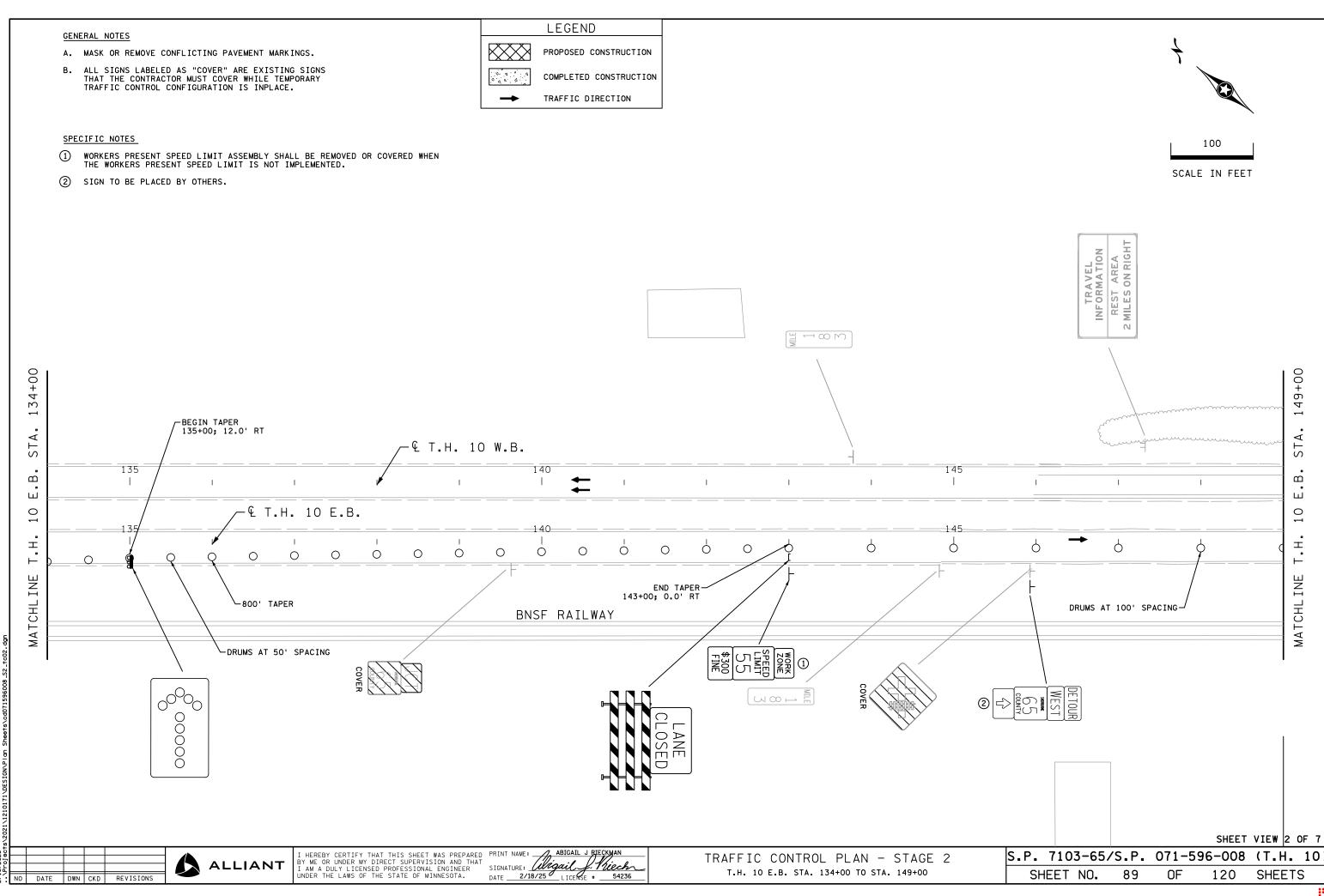


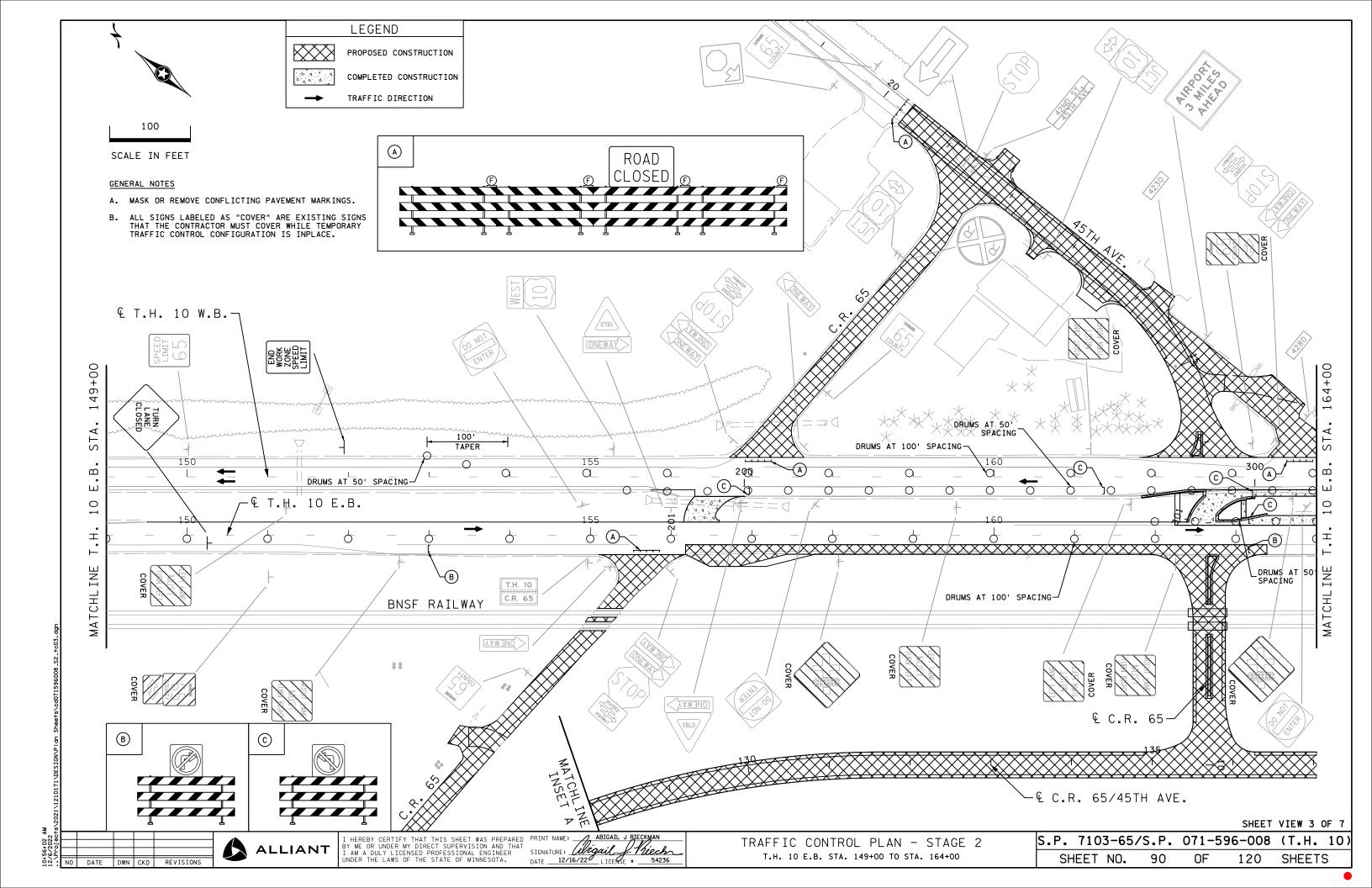


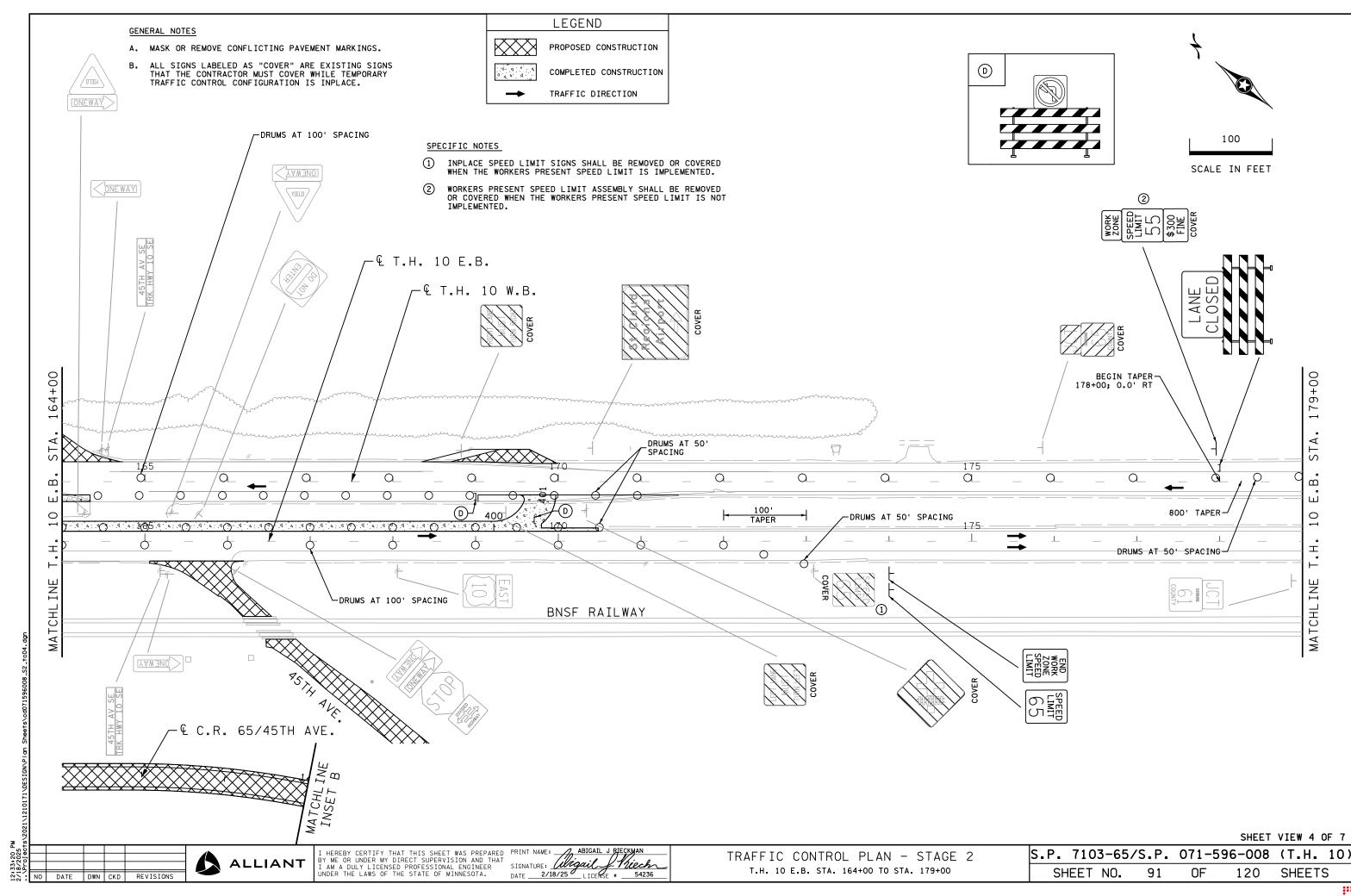
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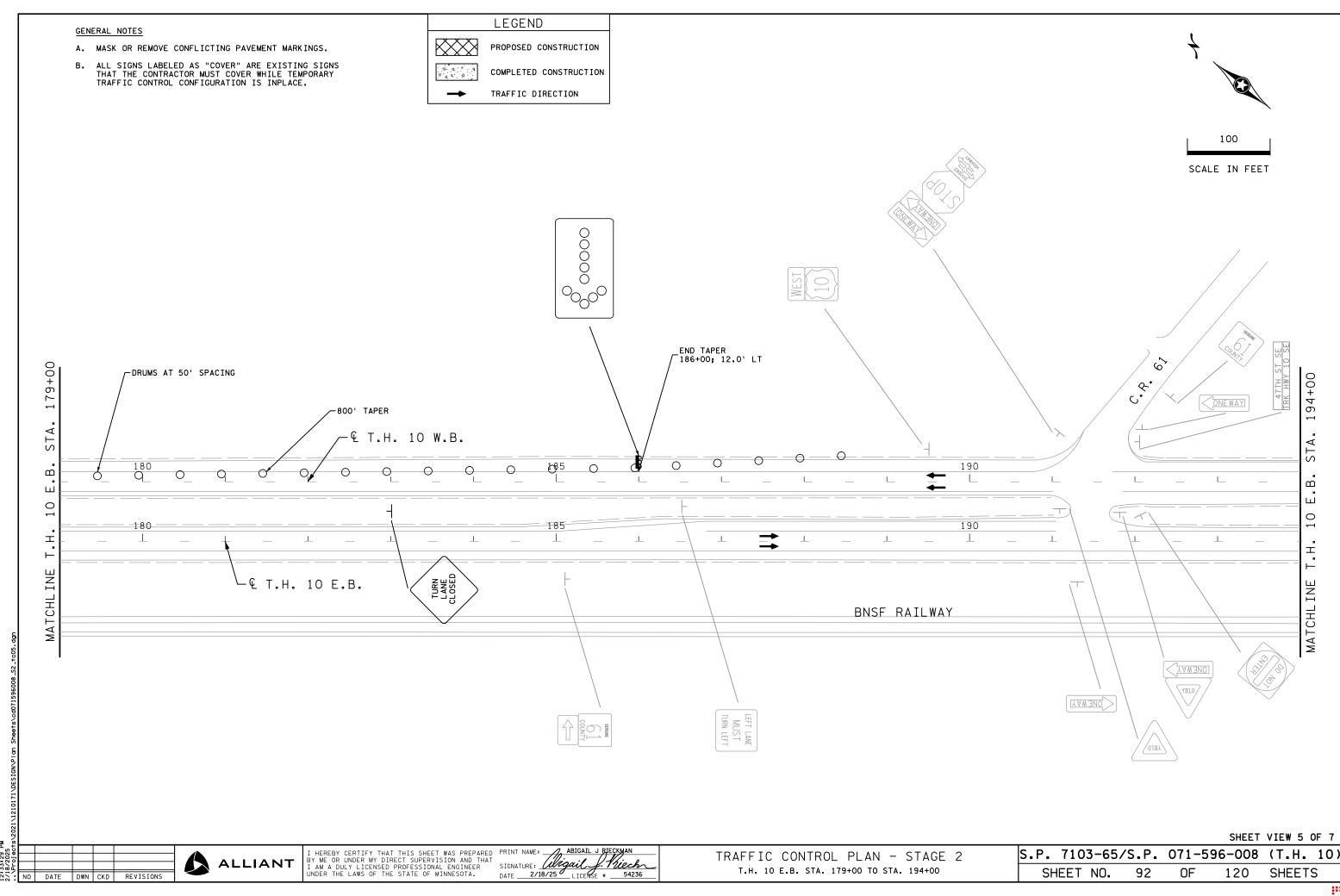


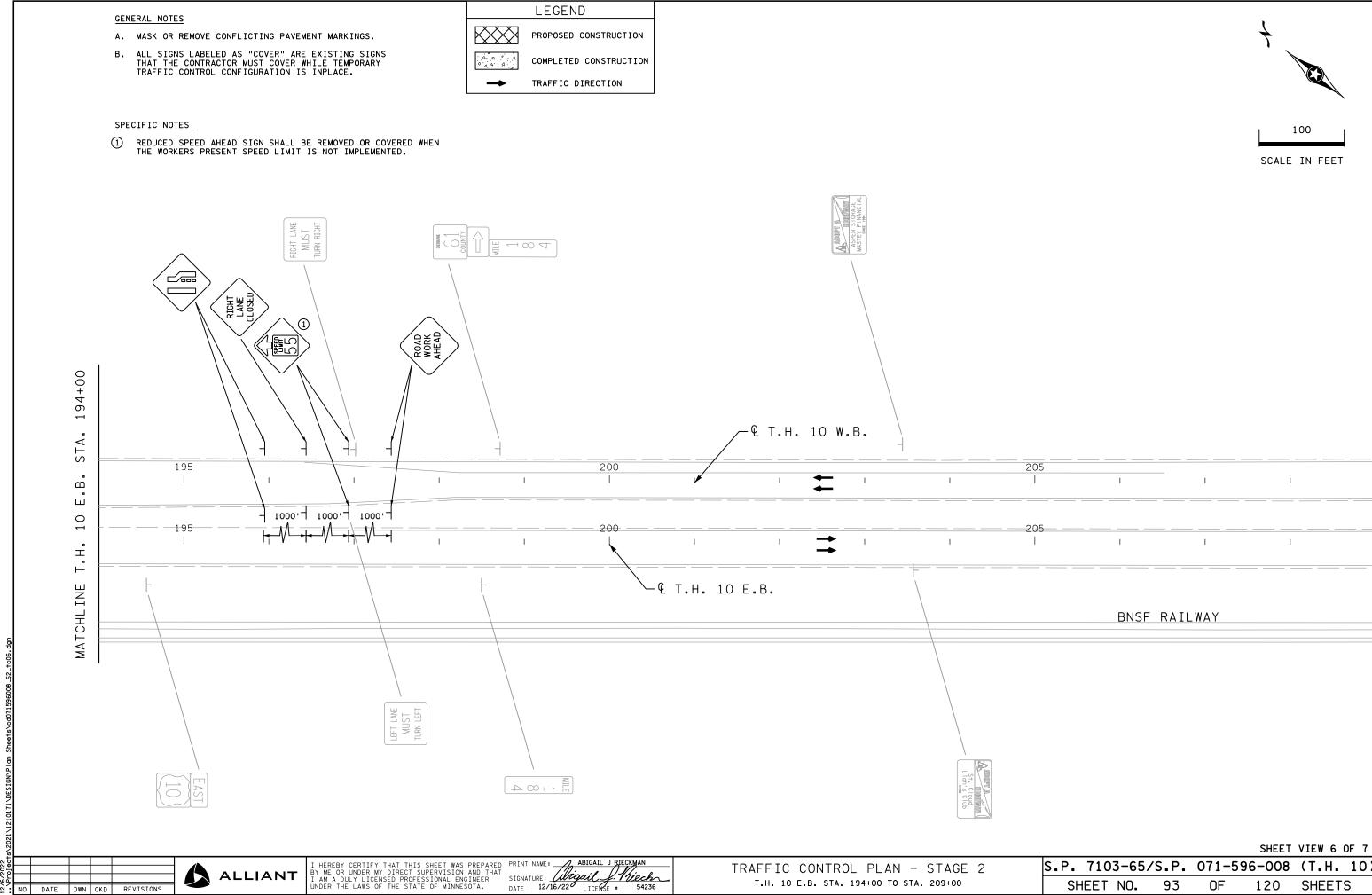


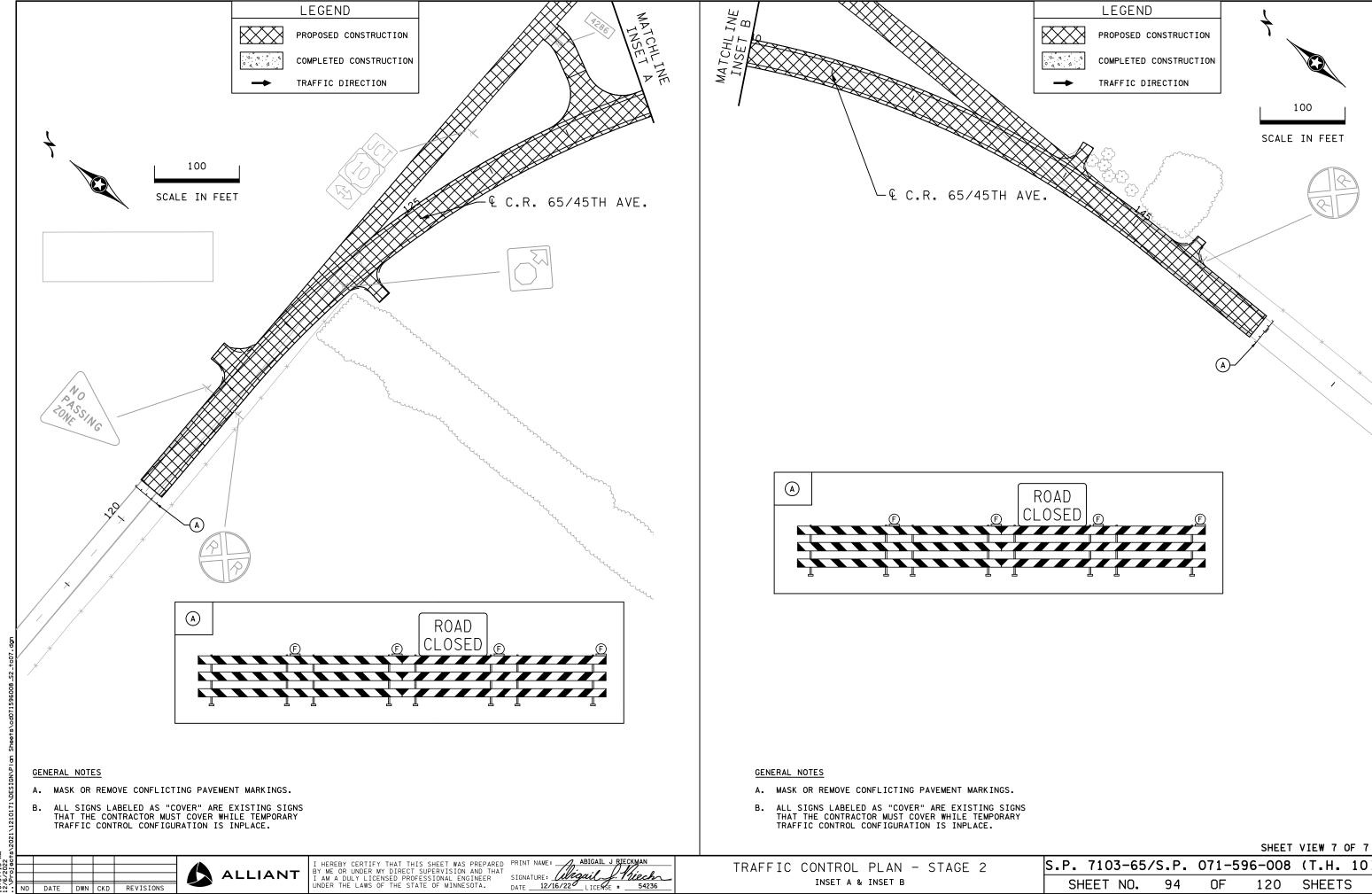












TRAFFIC CONTROL PLAN - STAGE 2 INSET A & INSET B

**ALLIANT** 

DATE DWN CKD REVISIONS

S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. SHEETS 120

## **GENERAL INFORMATION:**

- 1. SEE 2582 IN THE SPECIAL PROVISIONS FOR PAVEMENT MARKING SPOTTING RESPONSIBILITIES.
- 2. EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS, AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY AN AGENCY PLACED YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE MAINLINE RADIUS.
- 3. DO NOT APPLY THE PAVEMENT MARKINGS WHEN WEATHER AND OTHER CONDITIONS CAUSE A FILM OF DUST OR DEBRIS TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL IS APPLIED.
- 4. THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORMED ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLAGE OF MATERIAL.

## CONTRAST MARKINGS

1. CONTRAST MARKINGS ARE DEFINED AS STANDARD LINEAR PAVEMENT MARKINGS, CROSSWALK MARKINGS AND PAVEMENT MESSAGES WITH 1.5 INCH NON REFLECTIVE BLACK BORDERS.

	PAVEMENT MARKING S	PM			
ITEM NO.	DESCRIPTION	UNIT	TOTAL QTY	S.P. 7103-65 A	S.P. 071-596-008 B
2102.503/00010	PAVEMENT MARKING REMOVAL	LIN FT	7342	7342	
2582.503/30106	6" SOLID LINE MULTI-COMPONENT	LIN FT	2185		2185
2582.503/30124	24" SOLID LINE MULTI-COMPONENT	LIN FT	11	11	2105
2582.503/30204	4" BROKEN LINE MULTI-COMPONENT	LIN FT	113		113
2582.503/30404	4" DOUBLE SOLID LINE MULTI-COMPONENT	LIN FT	500		500
2582.503/36106	6" SOLID LINE MULTI-COMPONENT GROUND IN	LIN FT	4853	1896	2957
2582.503/36124	24" SOLID LINE MULTI-COMPONENT GROUND IN	LIN FT	11	11	
2582.503/36204	4" BROKEN LINE MULTI-COMPONENT GROUND IN	LIN FT	196		196
2582.503/36404	4" DOUBLE SOLID LINE MULTI-COMPONENT GROUND IN	LIN FT	1053	551	502
2582.503/40106	6" SOLID LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	8798	8798	
2582.503/40206	6" BROKEN LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	460	460	
2582.503/40304	4" DOTTED LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	64	64	
2582.503/42106	6" SOLID LINE MULTI-COMPONENT GROUND IN (WR) CONTRAST	LIN FT	1266	1266	
2582.503/42206	6" BROKEN LINE MULTI-COMPONENT GROUND IN (WR) CONTRAST	LIN FT	316	316	
2582.503/42304	4" DOTTED LINE MULTI-COMPONENT GROUND IN (WR) CONTRAST	LIN FT	120	120	
2582.503/76124	24" SOLID LINE PREFORM THERMO GROUND IN	LIN FT	112	112	
2582.518/04020	PAVEMENT MESSAGE PREFORM THERMOPLASTIC GROUND IN	SQ FT	418	418	
2582.503/00010	MOBILE RETROREFLECTOMETER MEASUREMENTS	LIN FT	36800	23400	13400
2582.601/00010	WET RETROREFLECTOMETER MEASUREMENTS	LUMP SUM	1	1	23 100

## SPECIFIC NOTES:

- (1) WHITE
- (2) YELLOW
- (3) 4577' WHITE AND 275' YELLOW
- (4) 6114' WHITE AND 3746' YELLOW
- (5) INCLUDES 2 LEFT TURN ARROWS, 4 U-TURN ARROWS, 3 YIELD LINES AND 3 RAILROAD CROSSING PAVEMENT MESSAGES.

PERMANENT SIGNING SUMMARY										
			TOTAL	S.P.	S.P.					
ITEM NO.	ITEM	UNIT	SIGNING QUANTITIES	7103-65 QUANTITIES	071-596-008 QUANTITIES					
				(A)	(B)					
2104.502/01220	REMOVE SIGN	EACH	52	36	16					
2104.502/03300	SALVAGE SIGN	EACH	4	1	3					
2564.602/01515	INSTALL SIGN	EACH	4	1	3					
2564.602/02340	DELINEATOR / MARKER	EACH	2	2						
2564.602/02350	DELINEATOR / MARKER PANEL	EACH	8	8						
2564.618/00010	SIGN	SQ FT	612	522	90					

#### GENERAL INFORMATION:

- 1. MOUNTING HEIGHT IS MINIMUM (WITH A + 6 INCH TOLERANCE)
- SEE CURRENT MNDOT STANDARD SIGNS AND MARKINGS MANUAL FOR STANDARD SIGN DESIGNS, SPLICE PLATES, STRINGERS, AND PUNCHING CODES.
- 3. SEE STANDARD PLANS AND DETAILS FOR SIGN STRUCTURE INSTALLATION AND PLACEMENT.

- 80% FEDERAL/20% STATE FUNDS.
- 80% FEDERAL/20% SHERBURNE COUNTY FUNDS.

## SYMBOLS & MATERIALS LEGEND

BROKEN LINE-50' CYCLE (10' LINE, 40' GAP)

DOTTED LINE-15' CYCLE (3' LINE, 12' GAP), UNLESS SHOWN OTHERWISE IN THE PLAN

PAVEMENT MESSAGE (LEFT TURN ARROW)

PAVEMENT MESSAGE (RIGHT TURN ARROW)

► PAVEMENT MESSAGE (RAILROAD CROSSING)

PAVEMENT MESSAGE (SHARK TEETH)

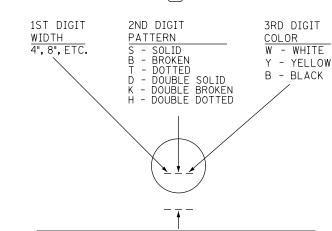
PAVEMENT MESSAGE (U TURN ARROW)

## STRIPING KEY

CIRCLE-MULTI COMP

BOX-PREF TAPE

OCTAGON-PREF THERMO



G=GROUND IN W=WET REFLECTIVE

C=CONTRAST E=ENHANCED SKID RESISTANCE

EXAMPLE:

(4SW) 4" SOLID LINE WHITE PREF THERMO GROUND IN, CONTRAST, WET REFLECTIVE

**ABBREVIATIONS** SQUARE TUBE

SIGNING SYMBOLS

SIGN BACK TO BACK

\_\_\_\_ I BEAM

**ALLIANT** 

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NICHOLAUS GRAGE 

TITLE SHEET

PERMANENT PAVEMENT MARKING & SIGNING PLAN S.P. 7103-65/S.P. 071-596-008 (T.H. 10 SHEET NO. 120 SHEETS

	SIGN AND DELINEATOR / MARKER										ST-A			
	SIGN NUMBER	PANEL	PANEL	SIZE (W × H)	MOUNTING HEIGHT	TYPE	SUPPORT RISER POST SIZE	NUMBER OF	REMOVE SIGN	SIGN	SALVAGE SIGN	INSTALL SIGN	DELINEATOR /MARKER	DELINEATOR /MARKER PANEL
		CODE	LEGEND	INCH	FEET	1	INCHES	POSTS	EACH	SQ FT	EACH	EACH	EACH	EACH
(A)	S.P. 710	03-65 (T.H.					11101123		EAGII		LAGII	LAGIT	LAGIT	LAGIT
$\cup$	S-1	M2-1	JCT (WHITE)	30 x 21	7	SQ-SOIL	2.5	1 1	1	4.38				
ŀ	S-2	M1-X4 W10-2R	SHERBURNE COUNTY 65 RR PARALLEL TRACKS RIGHTINTERSECTION	36 × 36 48 × 48	7	SQ-SOIL	2.5	1	1	9.00				+
F	S-3	M1-X4	SHERBURNE COUNTY 65	INPLACE	'	JQ JOIL	2.5	<b>†</b>		10.00				
L		M6-4	DOUBLE ARROW (WHITE)	INPLACE					<u>.</u>					
-	S-4 S-5	R3-7L R3-7R	LEFT LANE MUST TURN LEFT RIGHT LANE MUST TURN RIGHT	INPLACE 36 × 36	7	SQ-SOIL	2	1 1	1 1	9.00	1			+
<b> </b>	S-6	R5-1	DO NOT ENTER	36 × 36	7	SQ-SOIL	2	1 1	1	9.00				
Ī	S-7		T.H. 10	INPLACE					1					
		DC 11	C.R. 65	INPLACE	-	CO COTI				6 75				
⊢	S-8	R6-1L R1-2	ONE WAY LEFT YIELD	54 × 18 INPLACE	7	SQ-SOIL	2	1 1	1	6.75				+
	S-10	R6-1R	ONE WAY RIGHT	INPLACE					1					1
Γ	S-13	R6-1R	ONE WAY RIGHT	INPLACE					1					
-	S-15	R1-2 R6-1L	YIELD ONE WAY LEFT	INPLACE INPLACE					<u> </u>	-				+
F	S-16	R5-1L	DO NOT ENTER	INPLACE					1					+
-	S-17	W10-2R	RR PARALLEL TRACKS RIGHTINTERSECTION	INPLACE				1	1	+				+
İ	S-18	W3-1	STOP AHEAD	30 × 30	7	SQ-SOIL	2	1	1	6.25				-
	S-26	R3-7R	RIGHT LANE MUST TURN RIGHT	INPLACE					1					
-	S-27 S-28	R3-7L R3-7R	LEFT LANE MUST TURN LEFT RIGHT LANE MUST TURN RIGHT	INPLACE INPLACE					1 1	+				+
F		M1-X4	SHERBURNE COUNTY 65	INPLACE					1					+
L	S-31	M6-4	DOUBLE ARROW (WHITE)	INPLACE					1					
		R6-1L	ONE WAY LEFT	INPLACE										
	S-32	R6-3 R6-1R	DIVIDED HIGHWAY ONE WAY RIGHT	INPLACE 36 × 12					1	3.00	1		+	+
	3 32	R1-1	STOP	36 × 36	7	SQ-SOIL	2.5	1 1		9.00				+
L		X4-3	CYLINDER STYLE DELINEATOR (WHITE)	6 x 9										1
L	S-34	R6-1L	ONE WAY LEFT	54 × 18	7	SQ-SOIL	2	1	11	6.75				
-	S-35	W10-2L R6-1R	RR PARALLEL TRACKS LEFT INTERSECTION ONE WAY RIGHT	INPLACE 54 × 18					1	6.75				+
	S-36	R5-1	DO NOT ENTER	36 × 36	7	SQ-SOIL	2.5	1 1	- 1	9.00				+
F		R1-2	YIELD	INPLACE					1	9.00				+
	S-37	R6-1R	ONE WAY RIGHT	INPLACE					1					+
Γ	S-38		45TH AVE SE	INPLACE					1					
-			TRK HWY 10 SE	INPLACE						-				
	S-39		45TH AVE SE TRK HWY 10 SE	INPLACE INPLACE				<del> </del>	1					+
t	S-40	R6-1R	ONE WAY RIGHT	INPLACE					1					
L		R1-2	YIELD	INPLACE	_		_							
-	S-41	R5-1	DO NOT ENTER	36 × 36	7	SQ-SOIL	2	1	11	9.00				+
		R6-1L	ONE WAY LEFT	54 × 18				l	1	6.75			-	
	S-42	R4-7	KEEP RIGHT	36 × 48	7	SQ-CONCRETE	2.5	1		12.00			-	<del></del>
		0M1-2 R6-3	TYPE 1 OBJECT MARKER	18 × 18						-				1
		R6-1L	DIVIDED HIGHWAY ONE WAY LEFT	INPLACE 36 × 12						3.00				+
(1)	S-43	R6-1R	ONE WAY RIGHT	36 × 12	7	SQ-SOIL	2.5	,	1	3.00				
		R1-1	STOP	36 x 36	'	3Q-301L	2.5			9.00				
-		X4-3	CYLINDER STYLE DELINEATOR (WHITE)	6 x 9						4.50				1 1
	S-44	M3-2	EAST (WHITE)	36 × 18	7	SQ-SOIL	2.5	1 1	1	4.50				
	C 45	M1-4 R3-7R	US 10	36 × 36	7	CO COTI				9.00				
-	S-45 S-46	R3-7L	RIGHT LANE MUST TURN RIGHT LEFT LANE MUST TURN LEFT	36 × 36 36 × 36	7	SQ-SOIL SQ-SOIL	2	1 1	1	9.00				+
r	S-47	GUIDE	ST CLOUD REGIONAL AIRPORT RIGHT	INPLACE	7	SQ-SOIL	2.5	2	1		1	1		<del>                                     </del>
F	S-48	W10-2L	RR PARALLEL TRACKS LEFT INTERSECTION	48 × 48	7	SQ-SOIL	2.5	1	1	16.00	1 -	_		
Ī	S-49	M2-1	JCT (WHITE)	30 x 21	7	SQ-SOIL	2.5	1	1	4.38				
	S-51	M1-X4	SHERBURNE COUNTY 65	36 x 36	·			-	•	9.00	+	ļ	-	+
⊦	S-51 S-56	W10-1 R3-4	RR ADVANCE WARNING NO U-TURN	36 DIAMETER 36 × 36	7 7	SQ-SOIL SQ-SOIL	2 2	1	1	7.07 9.00			1	+
-	3-36	R1-2	YIELD	48 × 48 × 48	<del>  '</del>	34-301L		<del>                                     </del>		3.89			+	+
	S-57	R6-1L	ONE WAY LEFT	54 × 18	7	50-501	2 -	,		6.75				+
	3-51				┤ ′	SQ-SOIL	2.5	1		0.15			-	+
L		X4-3	CYLINDER STYLE DELINEATOR (YELLOW)	6 × 9	L	L						L		1

SPECIFIC NOTES:

(1) MOUNT BACK-TO-BACK.

A 80% FEDERAL/20% STATE FUNDS.

6		11/18/24				
õ						
ř						ALLIA
?	NO	DATE	DWN	CKD	REVISIONS	

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER SIGNATURE:

DATE 11/18/24 LICENSE 54159

PERMANENT PAVEMENT MARKING & SIGNING PLAN S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SIGNING TABULATIONS

SHEET NO. 120 SHEETS SIGN AND DELINEATOR / MARKER

TYPE

SQ-SOIL

SQ-SOIL

SQ-SOIL

MOUNTING

HEIGHT

 $(\overline{W} \times H)$ 

INCH

12 × 36

36 × 18

36 × 36

30 x 21

30 x 36

PANEL

LEGEND

TYPE 3 OBJECT MARKER CENTER

SOUTH (WHITE)

SHERBURNE COUNTY 65

ARROW RIGHT (WHITE)

U TURN

SUPPORT

RISER POST SIZE

**INCHES** 

2

2.5

2

REMOVE SIGN

NUMBER OF

POSTS

1

SALVAGE SIGN

SIGN

4.50

9.00

4.38

7.50

INSTALL SIGN **DELINEATOR** 

EACH

1

SPECIFIC NOTES

(2) MOUNT SIDE-BY-SIDE; SEE SIDE-BY-SIDE MOUNTING DETAIL.

SIGN NUMBER

S-58

S-59

S-60

PANEL

CODE

OM3-C

M3-3

M1-X4

M6-1R

R3-X5

(A) 80% FEDERAL/20% STATE FUNDS.

ST-A

DELINEATOR

PANEL

EACH

1

1

1

1

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER WAS DEPENDENT OF THE LAWS OF THE STATE OF MINNESOTA.

| I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER DATE IN 1/18/24 LICENSED PRO

			SIGN AN	) DELIN	EATOR /								ST-A
SIGN		PANEL				SUPPORT	1	REMOVE		SALVAGE	INSTALL	DELINEATOR	DELINEAT
NUMBER	PANEL		SIZE	MOUNTING		RISER_POST	NUMBER OF	SIGN	SIGN	SIGN	SIGN	/MARKER	/MARKE
	CODE	LEGEND	(W × H)	HEIGHT	TYPE	SIZE	POSTS	525				7	PANEL
			INCH	FEET		INCHES		EACH	SQ FT	EACH	EACH	EACH	EACH
	1-596-008 (C.R												
S-9	M1-X4	SHERBURNE COUNTY 65	INPLACE					1					
	R6-1L R6-1R	ONE WAY LEFT ONE WAY RIGHT	INPLACE INPLACE										+
S-11	R1-1	STOP	INPLACE					1					+
	R6-3	DIVIDED HIGHWAY	INPLACE										
	R6-1L	ONE WAY LEFT	INPLACE										
S-12	R6-1R	ONE WAY RIGHT	INPLACE					1					
	R1-1 R6-3	STOP DIVIDED HIGHWAY	INPLACE INPLACE										+
S-14	M1-X4	SHERBURNE COUNTY 65	INPLACE					1					+
	M2-1	JCT (WHITE)	INPLACE										
S-19	M1-4	US 10	INPLACE					1					
C-20	M6-4 W10-1	DOUBLE ARROW (WHITE) RR ADVANCE WARNING	INPLACE INPLACE			1		1	<del>                                     </del>	1			+
S-20 S-21	W10-1 W1-6R	AHEAD PLAQUE	INPLACE			1		1	<del>                                     </del>	1			+
S-22	R1-1	STOP	INPLACE			1		1		1			<del>                                     </del>
S-23		42ND ST.	INPLACE					1					
		45TH AVE.	INPLACE					1					
S-24	R3-7L	LEFT LANE MUST TURN LEFT	INPLACE					1					_
S-25	M2-1 M1-4	JCT (WHITE) US 10	INPLACE INPLACE					1					+
0 20	M6-4	DOUBLE ARROW (WHITE)	INPLACE					•					†
S-29		4230	12 × 4	4	SQ-SOIL	2	1			1	1		1
S-30		AIRPORT 3 MILES AHEAD	INPLACE					1		<b>.</b>			
S-33 S-50	W14-3	4280 NO PASSING ZONE	12 x 4 64 x 64 x 48	<u>4</u> 7	SQ-SOIL SQ-SOIL	2.5	1 1	1	9.90	1	1		+
S-50 S-52	W14-3 W3-1	STOP AHEAD	30 x 30	7	SQ-SOIL	2.5	1 1	1	6.25				+
0 02	M2-1	JCT (WHITE)	INPLACE	•	<u> </u>	<u> </u>	•	•	0120				1
S-53	M1-4	US 10	INPLACE					1					
	M6-4	DOUBLE ARROW (WHITE)	INPLACE		00 007					<u> </u>			
S-54 S-55	W3-1 W10-1	4286 RR ADVANCE WARNING	4 × 12 INPLACE	4	SQ-SOIL	2	1	1	-	1	1		+
S-81	W10-1 W1-2R	CURVE RIGHT	30 x 30	7	SQ-SOIL	2	1	1	6.25				+
	M1-X4	SHERBURNE COUNTY 65	24 x 24		·		-		4.00				<del>                                     </del>
S-82	M6-6L	ARROW UP LEFT (WHITE)	21 x 15	7	SQ-SOIL	2	1		2.19				+
	M1 - X4	SHERBURNE COUNTY 65	24 × 24			+			4.00	1			+
	M6-1L	ARROW LEFT (WHITE)	21 × 15	7	SQ-SOIL	2	1		2.19				<del>†                                      </del>
S-83	M4-5	TO (WHITE)	24 × 12						2.00				
	M1-4	US 10	24 × 24	7	SQ-SOIL	2	1	,	4.00				1
C 04	M6-1L	ARROW LEFT (WHITE)	21 x 15	7	50 507:	+	<del>                                     </del>		2.19	1			+
S-84	M1-X4	SHERBURNE COUNTY 65	24 x 24	7	SQ-SOIL	2	1		4.00	1			4
	M1-X4	SHERBURNE COUNTY 65	24 × 24	7	SQ-SOIL	2	1		4.00	1			+
c 00	M6-6R	ARROW UP RIGHT (WHITE)	21 x 15						2.19	-			+
S-90	M4-5 M1-4	TO (WHITE) US 10	24 × 12 24 × 24	7	SQ-SOIL	2	1 1		2.00 4.00	+			+
	M6-1R	ARROW RIGHT (WHITE)	24 x 24 21 x 15	•	3W-301L		'		2.19	1			+
S-91	W14-3	NO PASSING ZONE	64 x 64 x 48	7	SQ-SOIL	2.5	1		9.90				+
S-92													+
5-92	W3-1	STOP AHEAD	30 × 30	7	SQ-SOIL	2	1		6.25	1			+
S-93	M2-1	JCT (WHITE)	21 x 15	7	SQ-SOIL	2	1 1		2.19	1			
	M1-X4	SHERBURNE COUNTY 65	24 x 24	•					4.00				
S-94	W1-2L	CURVE LEFT	30 x 30	7	SQ-SOIL	2	1		6.25				
	·		<u> </u>		S.P. 071-59	6-008 (C.R. 6	5) TOTAL	16	90	3	3		
						PRO.IF	CT TOTAL	52	612	4	4	2	8

(2) MOUNT SIDE-BY-SIDE; SEE SIDE-BY-SIDE MOUNTING DETAIL.

B) 80% FEDERAL / 20% SHERBURNE COUNTY FUNDS.

ALLIANT

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

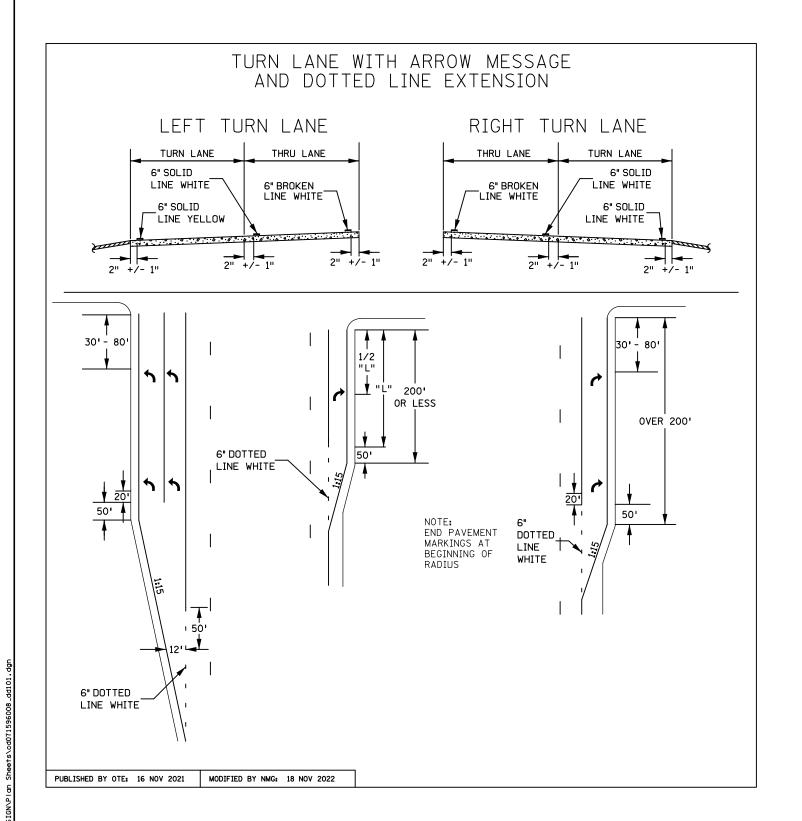
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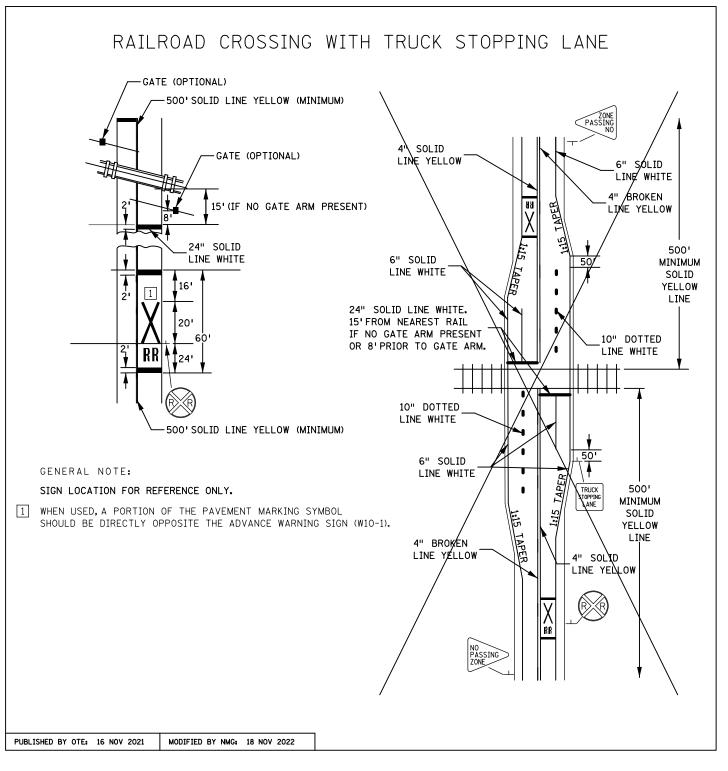
SIGNATURE:

DATE 4/22/23 / LICENSE\* 54159

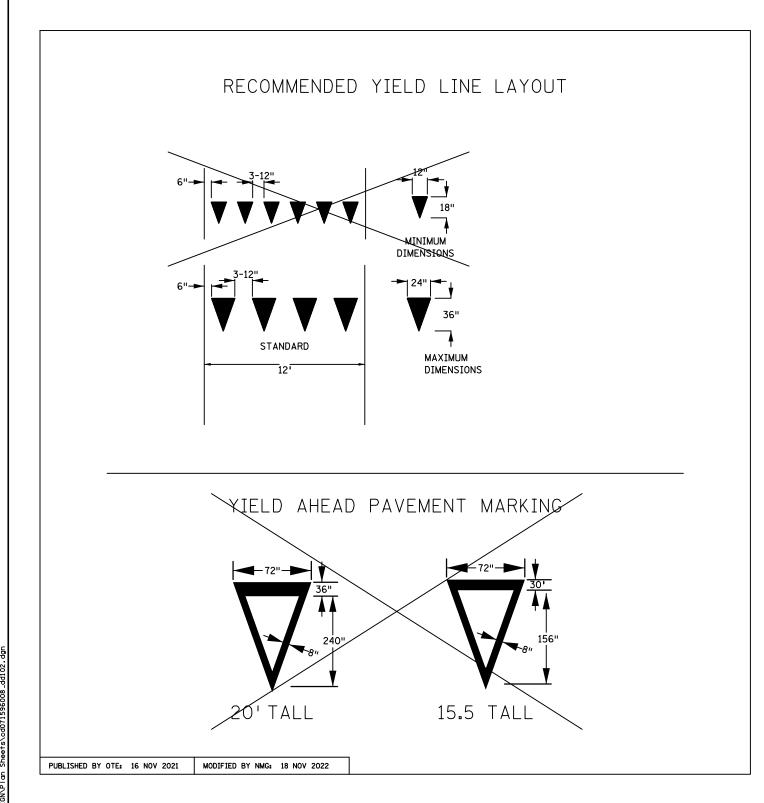
SIGNING TABULATIONS

PERMANENT PAVEMENT MARKING & SIGNING PLAN S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 120 SHEETS

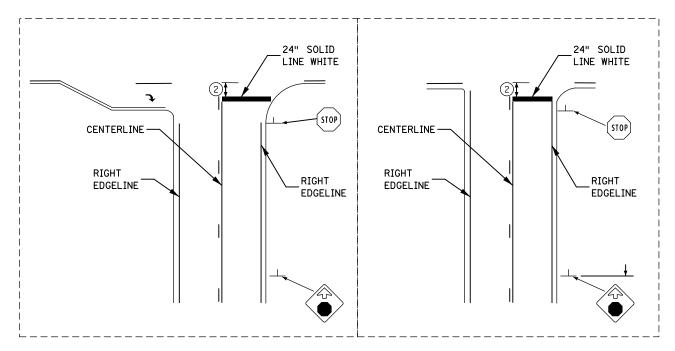




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# STOP LINE AND "STOP AHEAD"



## NOTES;

- 1. SIGN AND SIGN LOCATION FOR REFERENCE ONLY.
- ② IF STOP LINES ARE USED WITH A CROSSWALK, THE STOP LINE SHOULD BE PLACED A MINIMUM OF 4 FEET IN ADVANCE OF AND PERPENDICULAR TO THE NEAREST CROSSWALK LINE,

IN THE ABSENCE OF A MARKED CROSSWALK, THE STOP LINE SHOULD BE PLACED AT THE DESIRED STOPPING POINT, BUT SHOULD NOT BE PLACED MORE THAN 30 FEET OR LESS THAN 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTING FACE OF CURB, THE NEAR EDGE OF THE THRU LANE, OR THE EDGE OF PAVED SURFACE.

- 3. STOP LINE SHALL CONSIST OF SOLID WHITE LINES EXTENDING ACROSS ALL APPROACH LANES.
- 4. PAY FOR STOP LINE AS A 24" SOLID LINE WHITE.

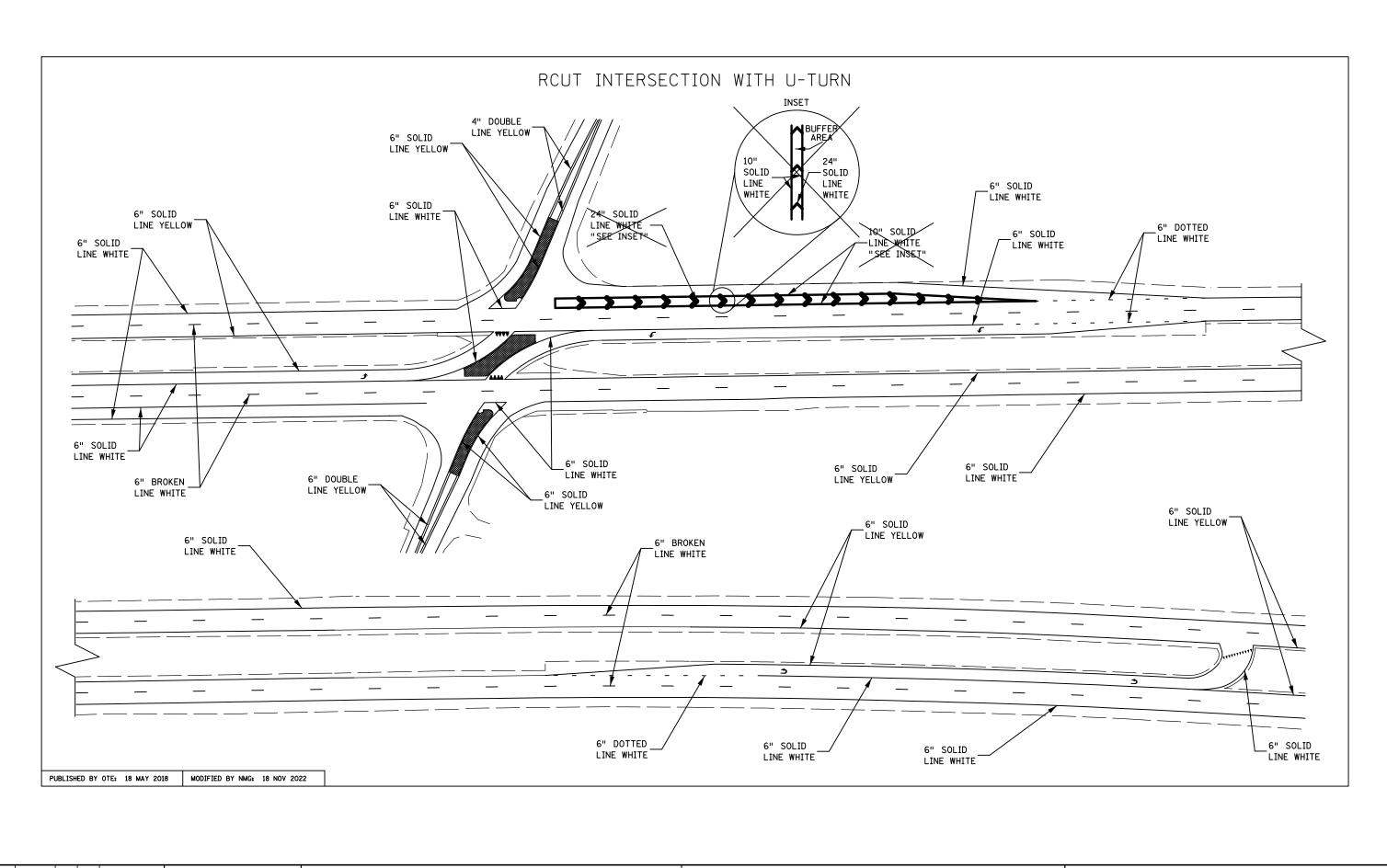
PUBLISHED BY OTST: 016 NOV 2021 | MODIFIED BY NMG: 18 NOV 2022

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PRINT NAME: NICHOLAUS GRAGE

SIGNATURE: 12/16/22 LICENSE 54159



**ALLIANT** 

I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED PRINT NAME: BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 12/1

PRINT NAME: NICHOLAUS GRAGE

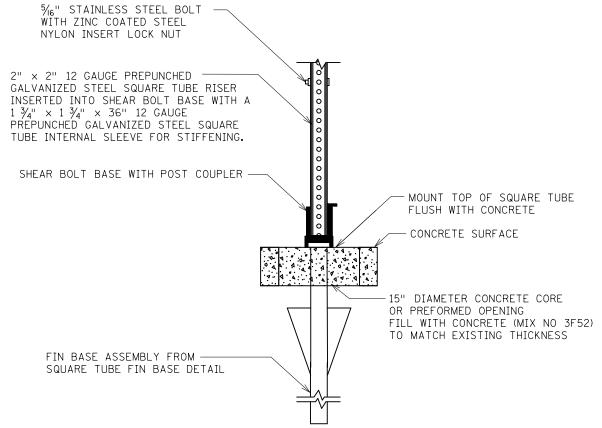
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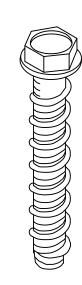
PERMANENT PAVEMENT MARKING & SIGNING PLAN S.P. 7103-65/S.P. 071-596-008 (T.H. 10) SHEET NO. 120 SHEETS 101



RISER POSTS TO BE MOUNTED CLOSE TO PLUMB. UP TO A MAXIMUM OF 1/2" OF SHIM WASHERS MAY BE USED BETWEEN SHEAR BOLT BASE AND CONCRETE FOR LEVELING. IF MORE THAN 1/2" OF SHIMS ARE REQUIRED, THEN CORE THROUGH THE CONCRETE.







SCREW ANCHOR BOLT 5" LONG CARBON STEEL THAT MUST MEET A MINIMUM

ALLOWABLE TENSION LOAD OF 2270 PSI.

- 1. THE CRASH RESPONSE TYPE FOR THIS STRUCTURE IS BREAKAWAY.
- 2. TO MEET CRASHWORTHY REQUIREMENTS THE DISTANCE BETWEEN THE BOTTOM OF THE SIGN PANEL AND THE GROUND SURFACE BELOW ANY PORTION OF THE PRIMARY SIGN PANEL MUST BE A MINIMUM OF 7 FEET. SEE TABULATIONS FOR MOUNTING HEIGHT.
- 3. INSTALLATION OF SHEAR BOLT BASE MUST BE NO EARLIER THAN 3 DAYS AFTER CONCRETE IS PLACED.
- 4. FOR SHEAR BOLT BASE USE APPROVED PRODUCT FROM MnDOT APPROVED PRODUCTS LIST, PRODUCT MUST BE MODIFIED AS SHOWN.
- 5. USE ANTI SEIZE ON THE SHEAR BOLT CONNECTIONS.
- 6. FOR SIGN PANEL MOUNTING DETAILS SEE SQUARE TUBE SIGN MOUNTING DETAILS.
- 7. SQUARE TUBE SIGN POSTS PER MnDOT SPEC. 3402.

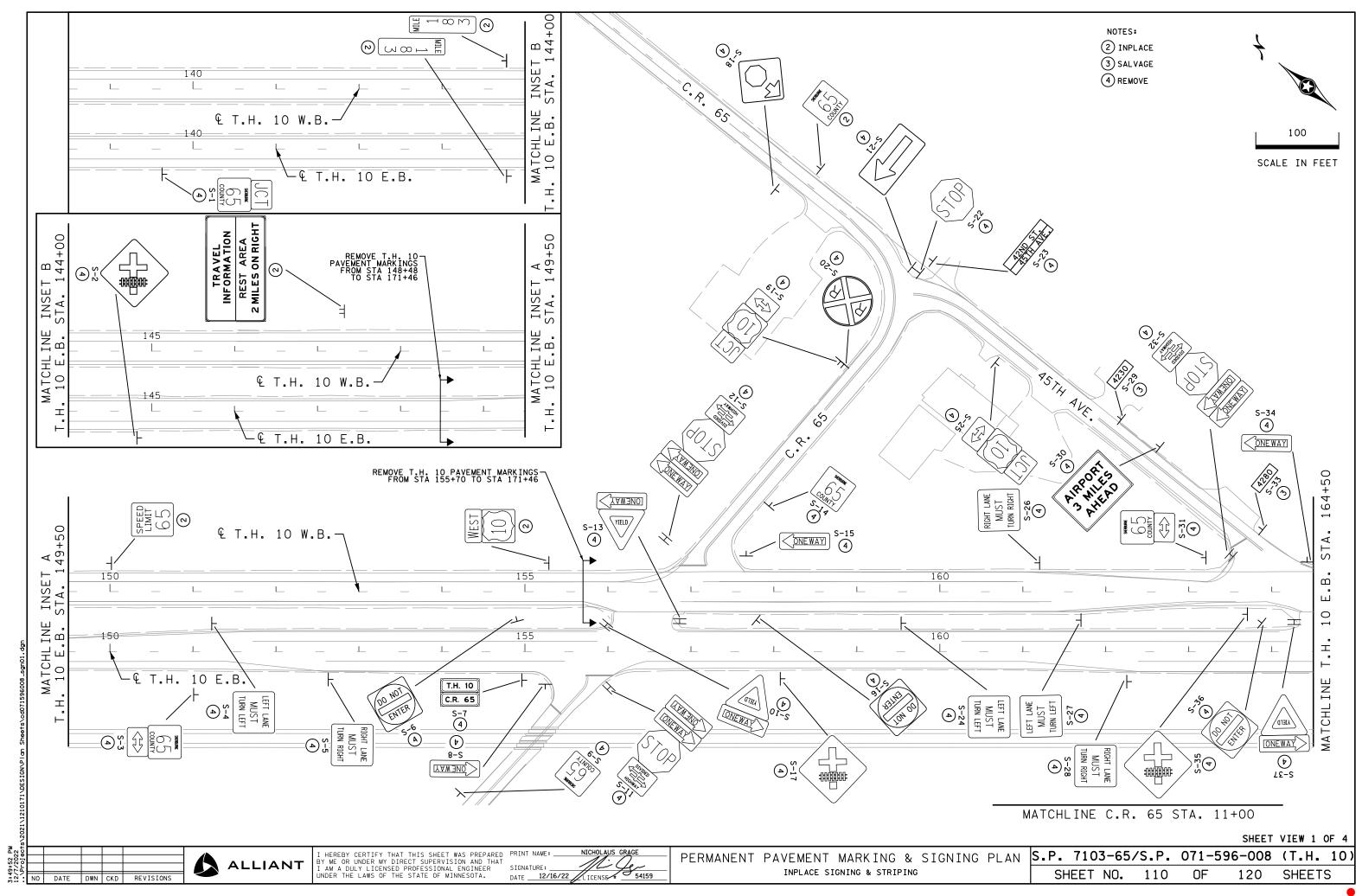
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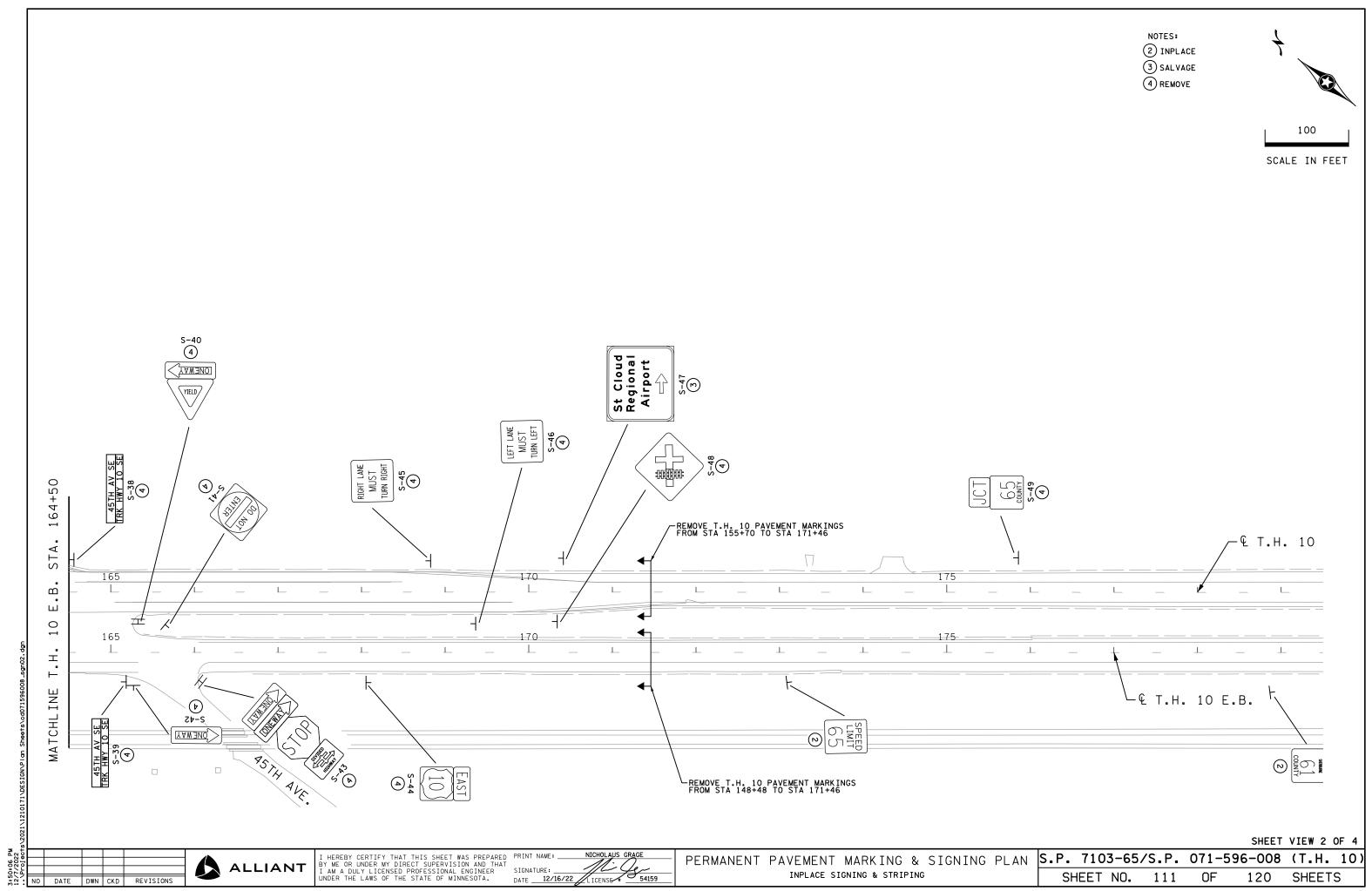
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DETAILS

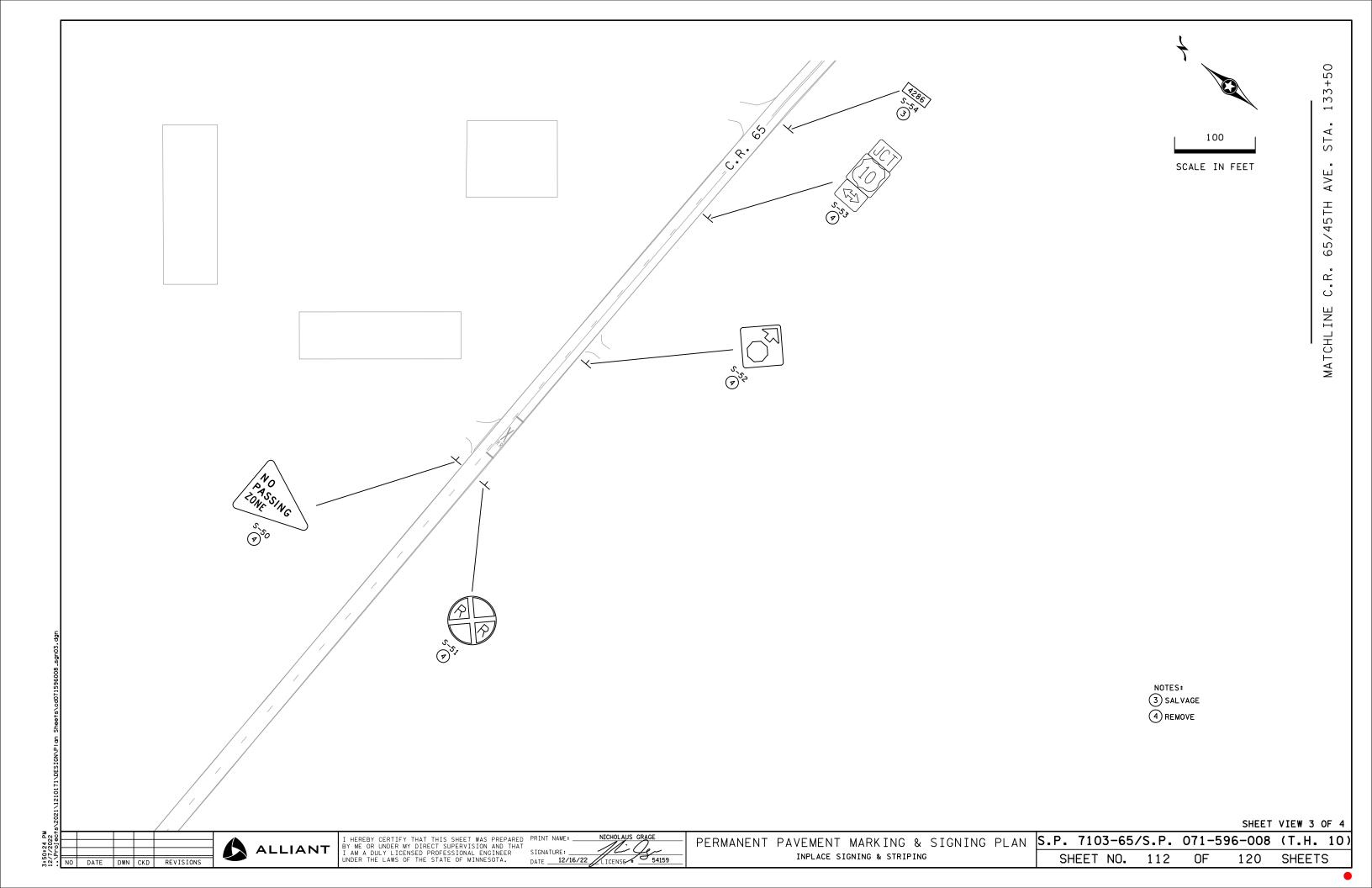
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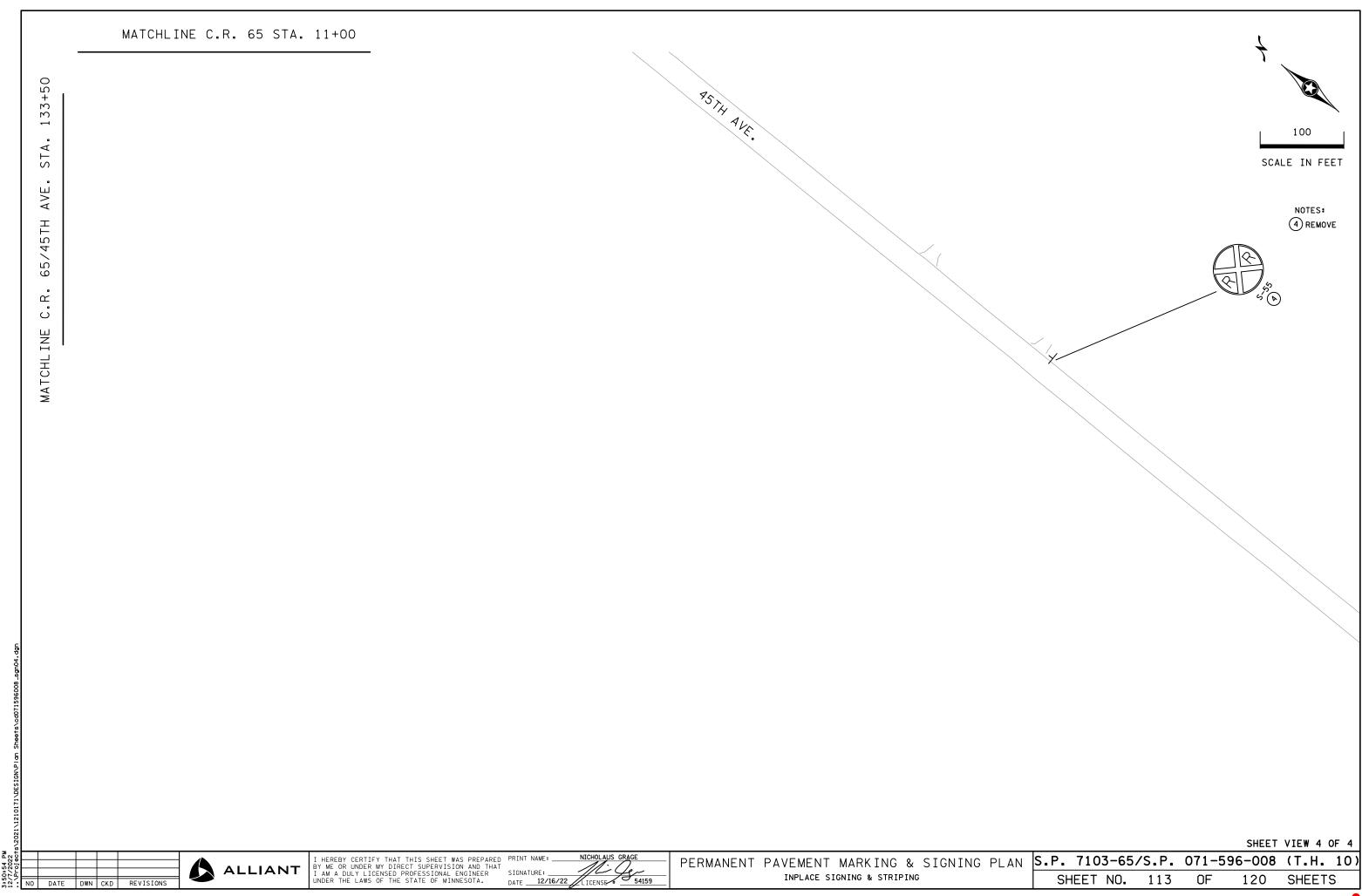
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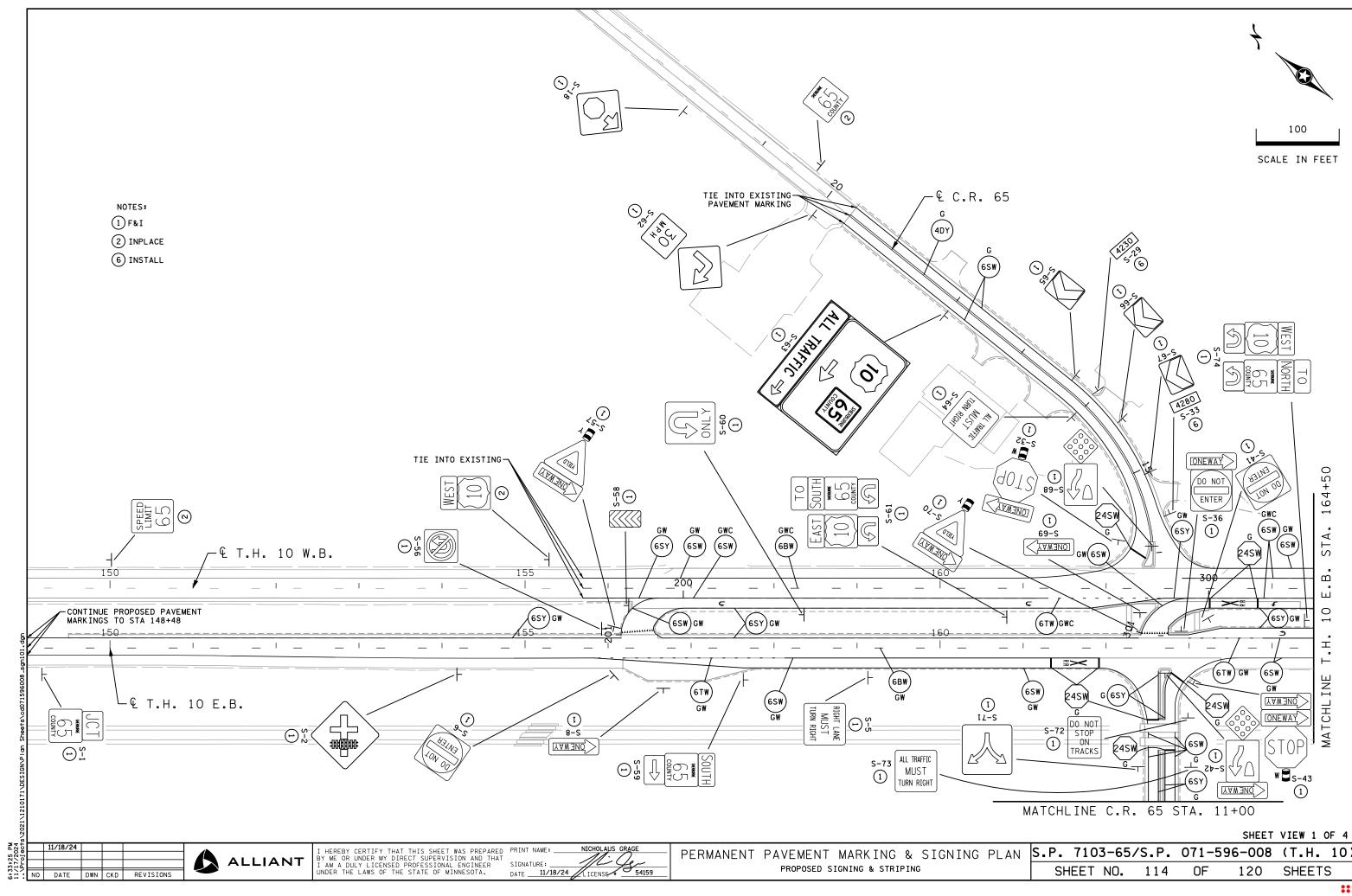


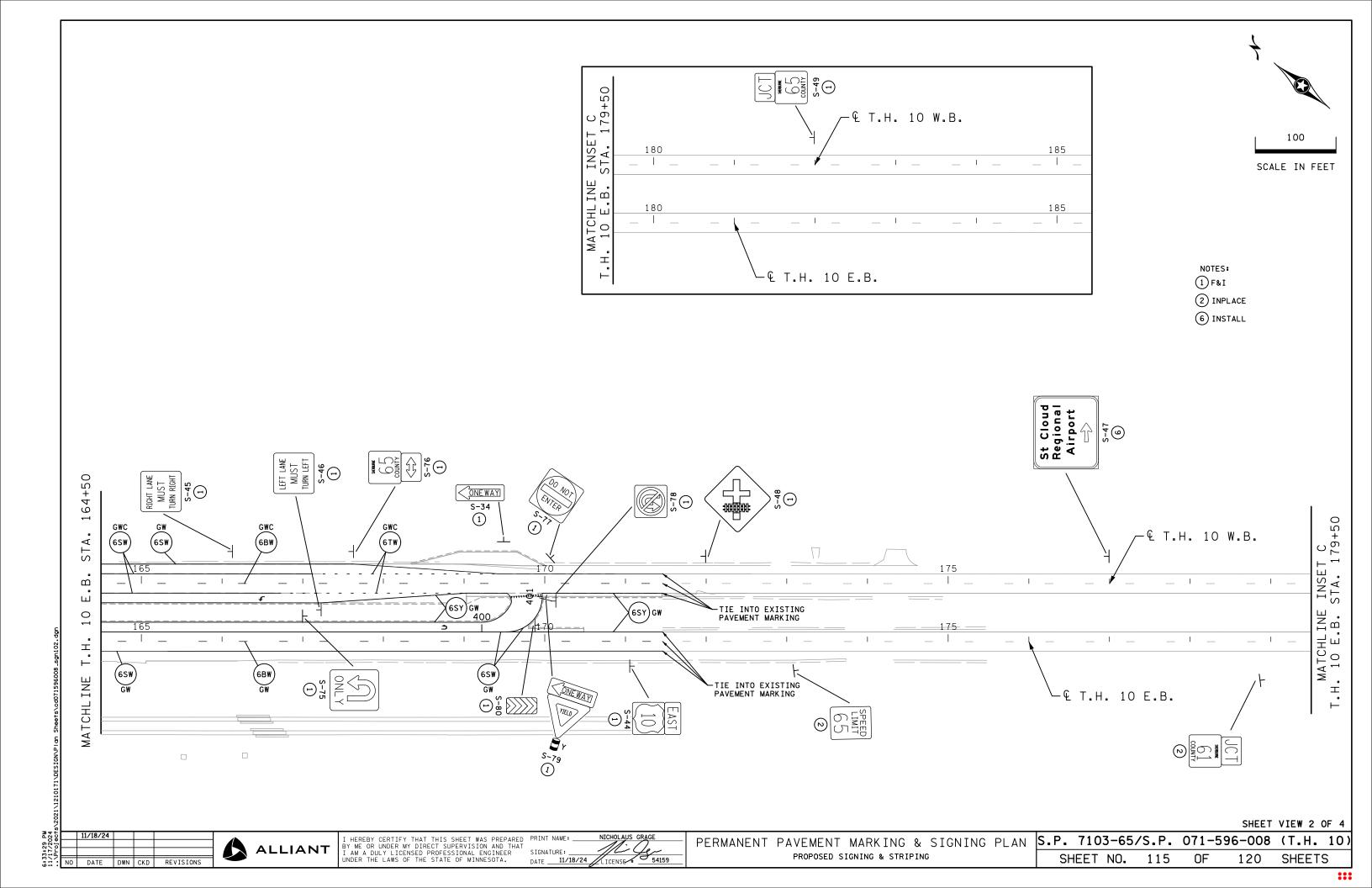


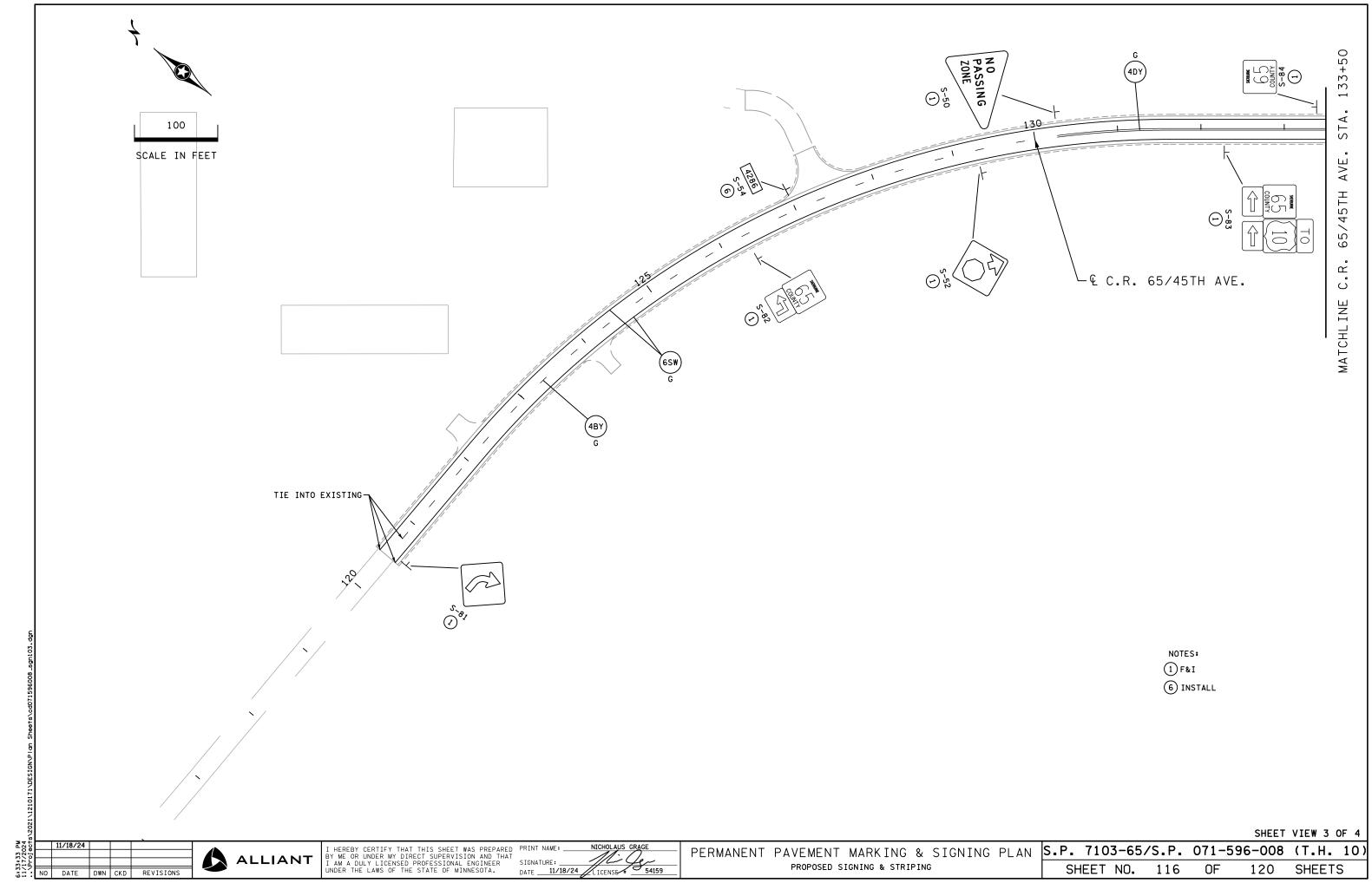
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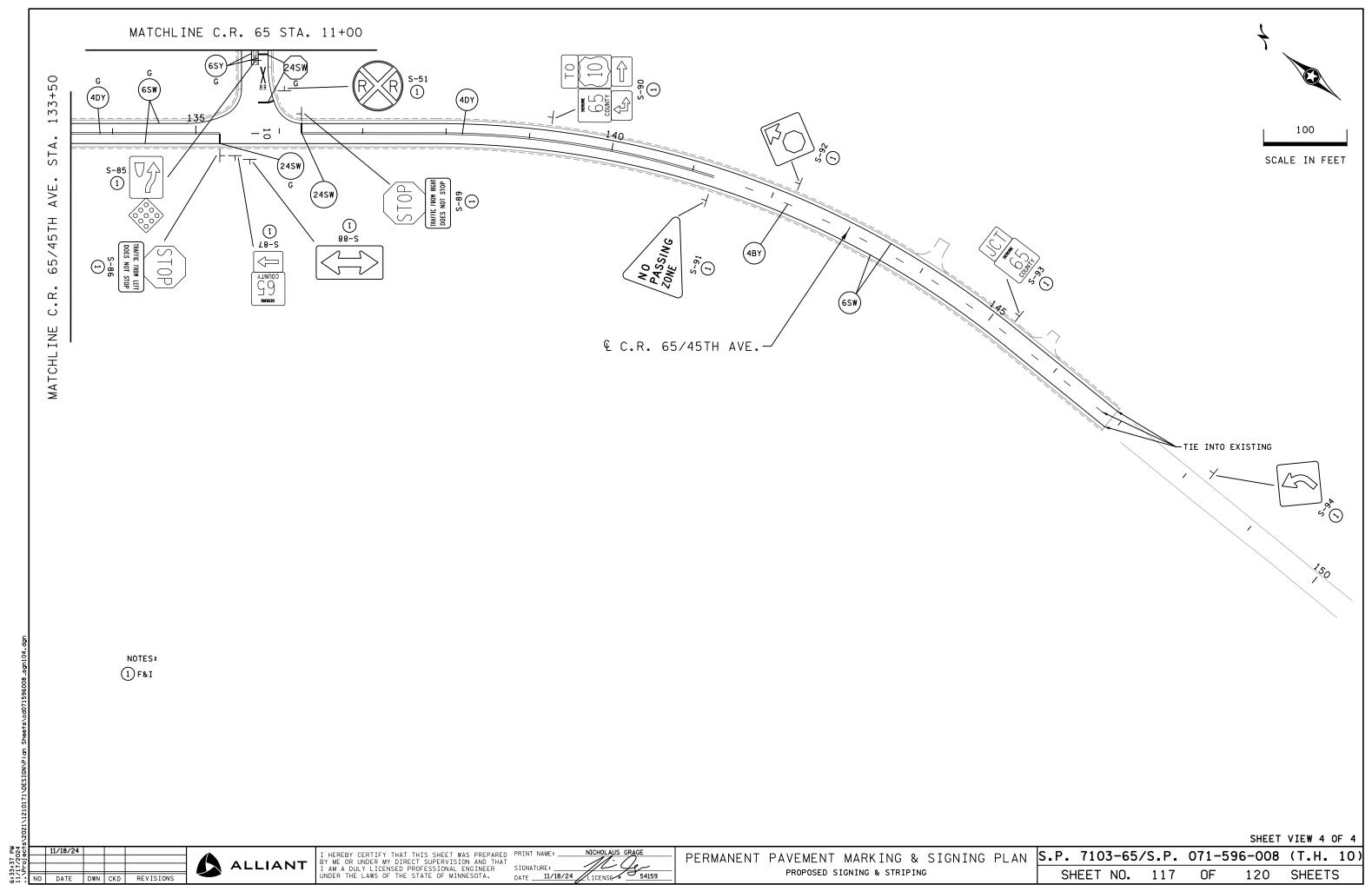


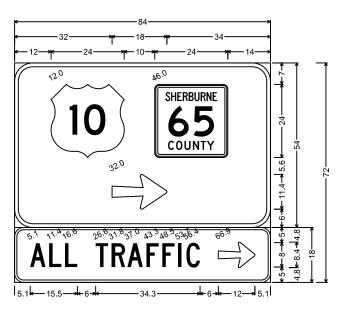












US 10 COUNTY 65 R ALL TRAFFIC R; 6.0" Radius, 1.3" Border, White on Green, US 10 M1-4; Arrow 14 - 18.0" 0°;

3.0" Radius, 0.8" Border, Black on White; "ALL TRAFFIC", C 2K; Arrow Custom - 12.0"  $0^{\circ}$ ;

## GENERAL NOTES:

- 1. CORNERS OF THE SIGN PANELS EXTENDING BEYOND THE BORDER SHALL NOT BE TRIMMED.
- 2. SEE MNDOT STANDARD SIGNS AND MARKINGS MANUAL FOR ARROW, FRACTION, AND ROUTE MARKER DETAILS.
- 3. ALL DIMENSIONS ARE IN INCHES.

NO DATE DWN CKD REVISIONS

ALLIANT

PRINT NAME: NICHOLAUS GRAGE

SIGNATURE:
DATE 11/18/24 LICENSE 54159

PANEL LAYOUT

PERMANENT PAVEMENT MARKING & SIGNING PLAN S.P. 7103-65/S.P. 071-596-008 (T.H. 10) 120 SHEETS SHEET NO. 118

## RADIUS CHART (ENGLISH)

MAST	ARM	LENGTH	RADIUS
	9		8

LUMINAIRES 120-240 VOLT

LIGHTING TABULATION Ν TOTAL QUANTITY (S.P. 7103-65) DESCRIPTION UNIT (A) LIGHTING UNIT TYPE 9-40 EACH 5 LIGHT FOUNDATION DESIGN E EACH 5 SERVICE CABINET - TYPE L1 EACH EQUIPMENT PAD B EACH 2" RIGID STEEL CONDUIT LIN FT 75 3" NON-METALLIC CONDUIT 276 LIN FT UNDERGROUND WIRE 1/C 2 AWG LIN FT 225 DIRECT BURIED LIGHTING CABLE 4/C 4 AWG LIN FT 1374

(A) 80% FEDERAL/20% STATE FUNDS.

USE
IF
CON
LIGH
WITH
BASE
ALUMINUM
TRANSFORMER BASE

LIGHT FOUNDATION DESIGN E
STANDARD PLATE 8127

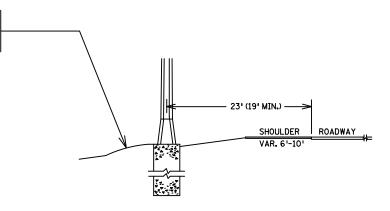
LIGHTING UNIT TYPE 9-40

LIGHTING CONTROL NODE

SEE SPECIAL PROVISIONS

USE THE MAXIMUM DISTANCE WHENEVER POSSIBLE, IF THE MINIMUM DISTANCE CANNOT BE OBTAINED CONTACT THE DISTRICT/DIVISION TRAFFIC ENGINEER LIGHT FOUNDATIONS SHALL BE PLACED IN ACCORDANCE WITH 2545.3F2.
DISTANCES SHALL BE MEASURED FROM THE EDGE OF DRIVING LANE OR TURN LANE.

FILL AROUND FOUNDATION TOP WITH EXCAVATED DIRT. GRADE DIRT LEVEL WITH BOTTOM OF CONCRETE CHAMFER.



PLACEMENT LIGHTING UNIT TYPE 9-40

O DATE DWN CKD REVISIONS ALLIANT

(BREAKAWAY)

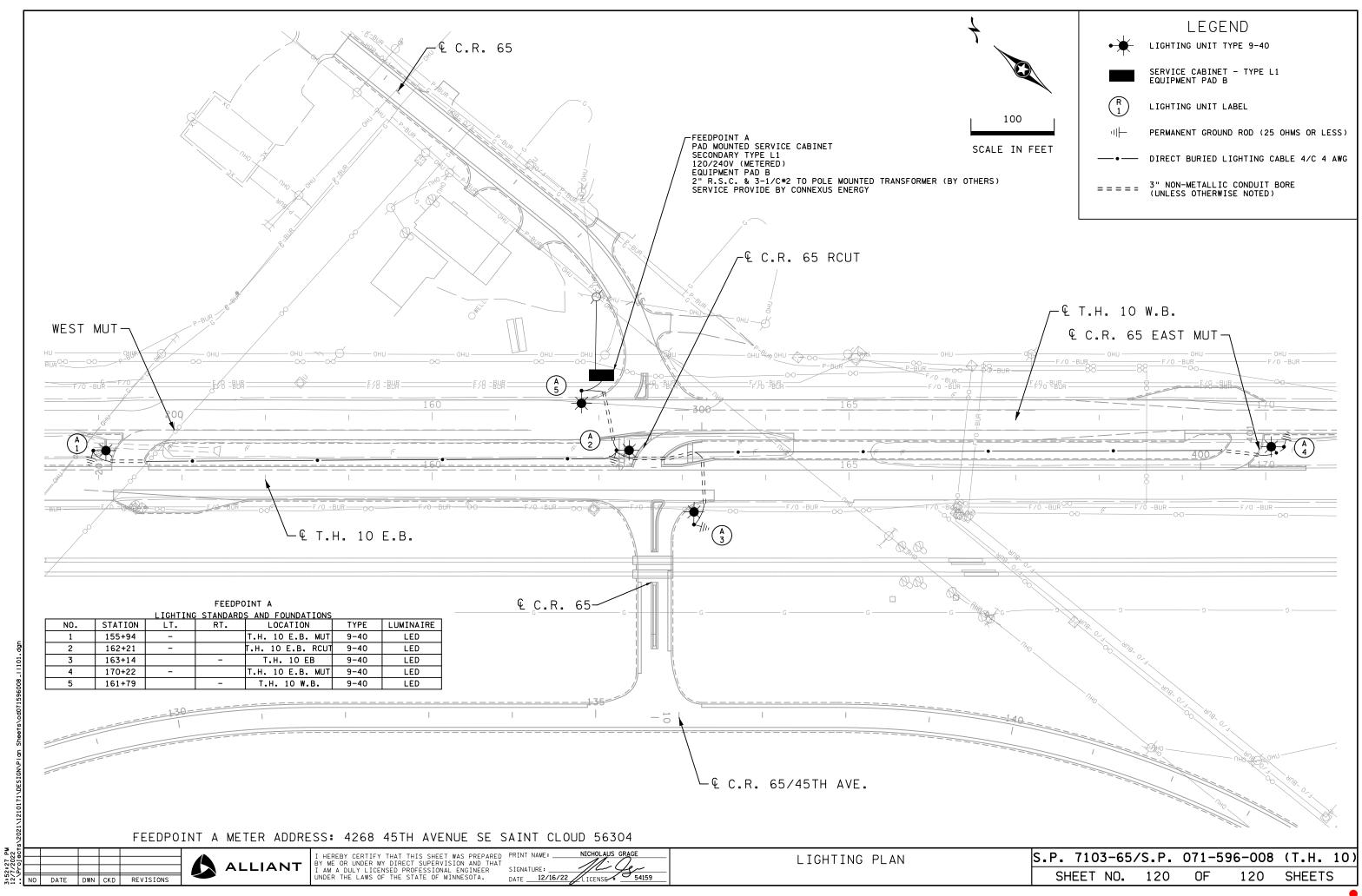
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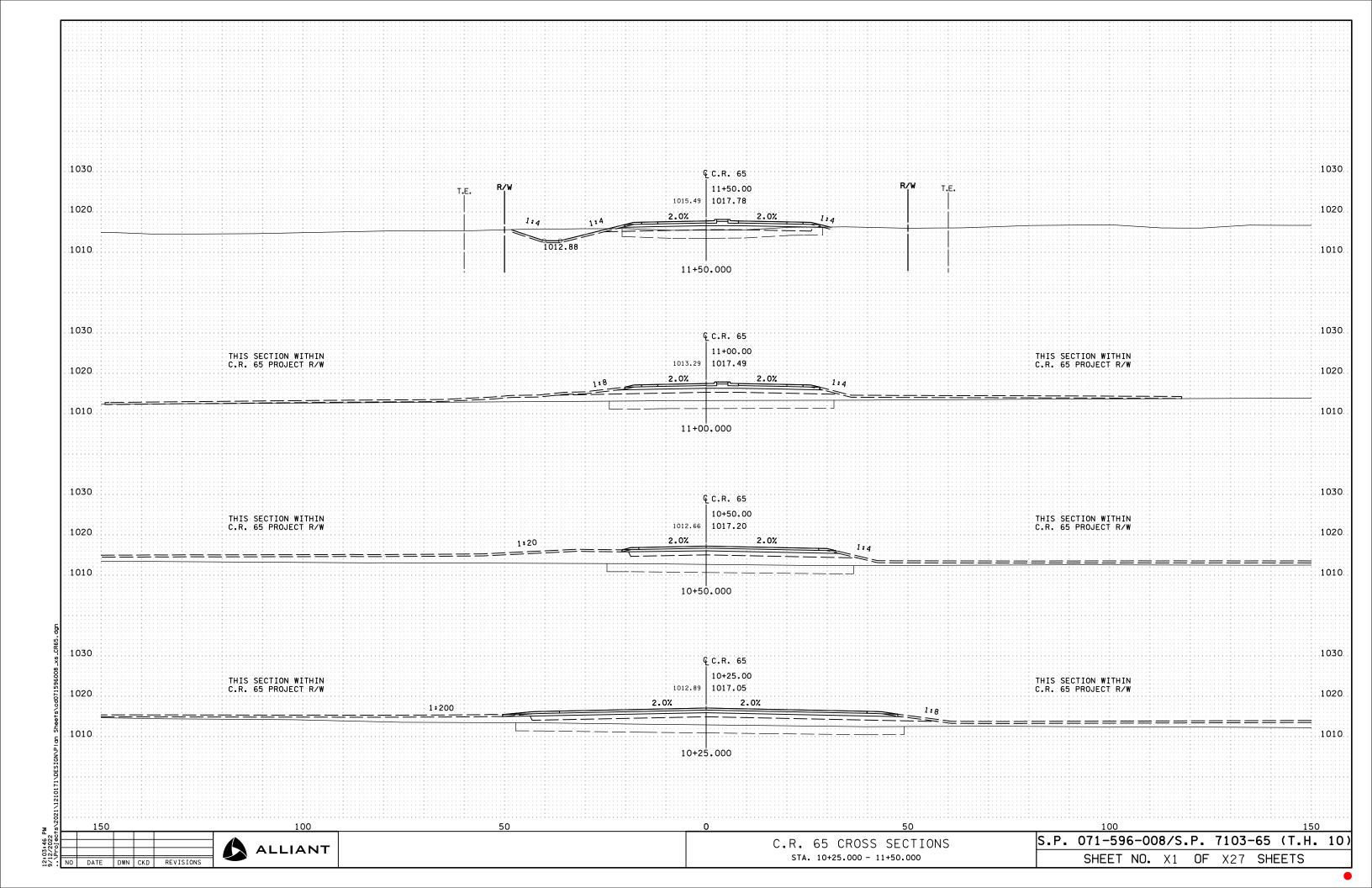
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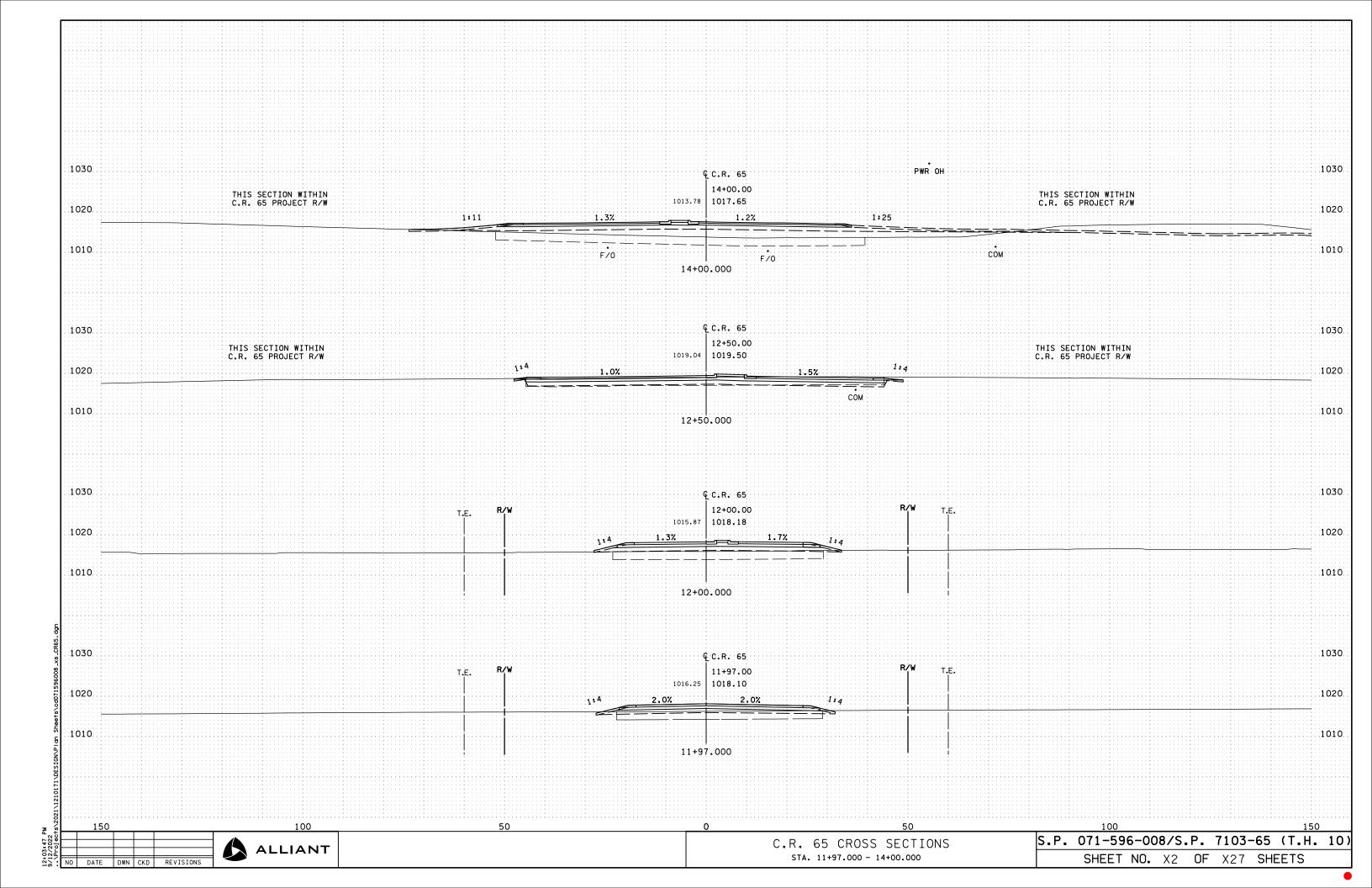
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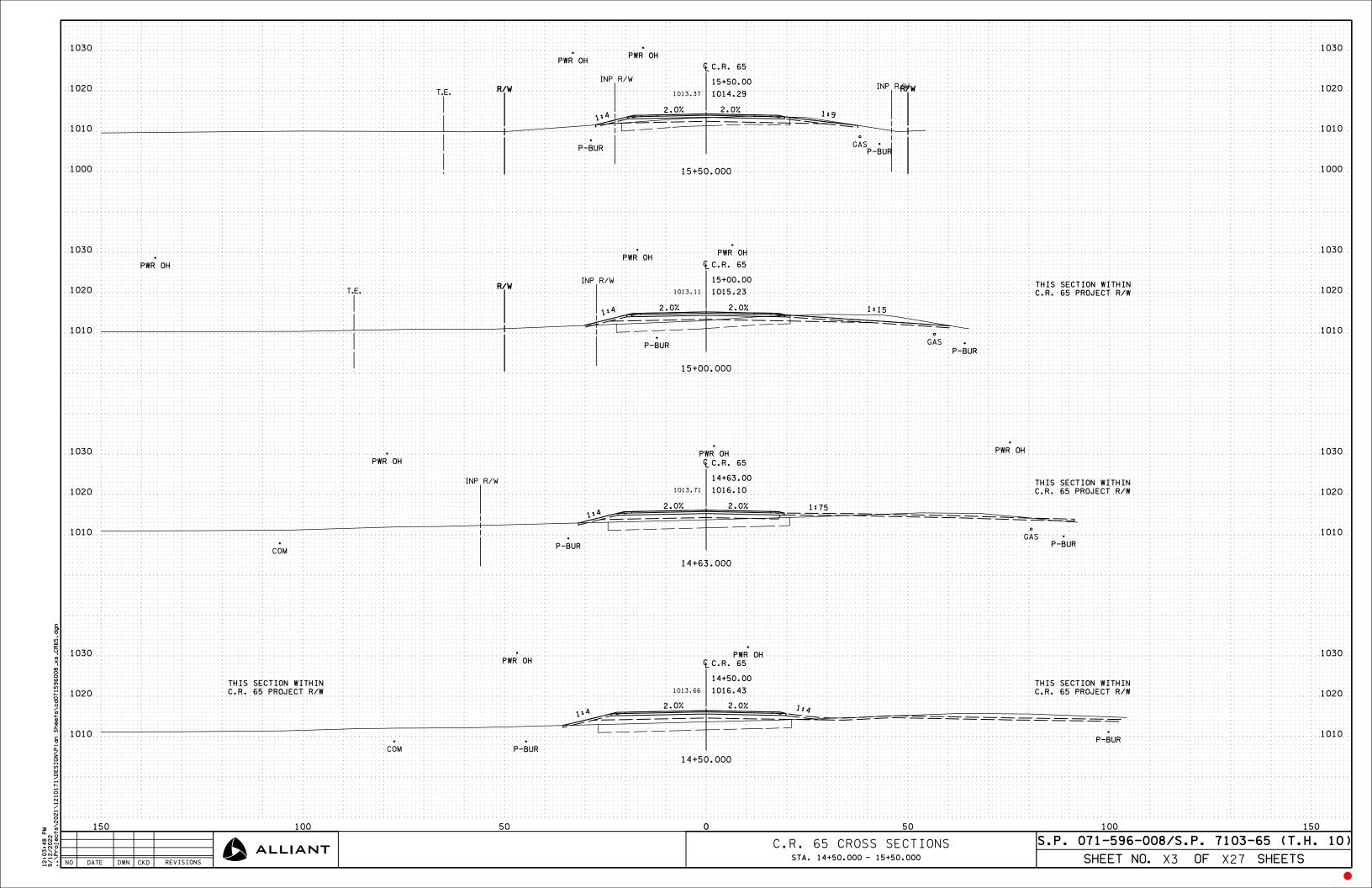
LIGHTING PLAN
DETAILS

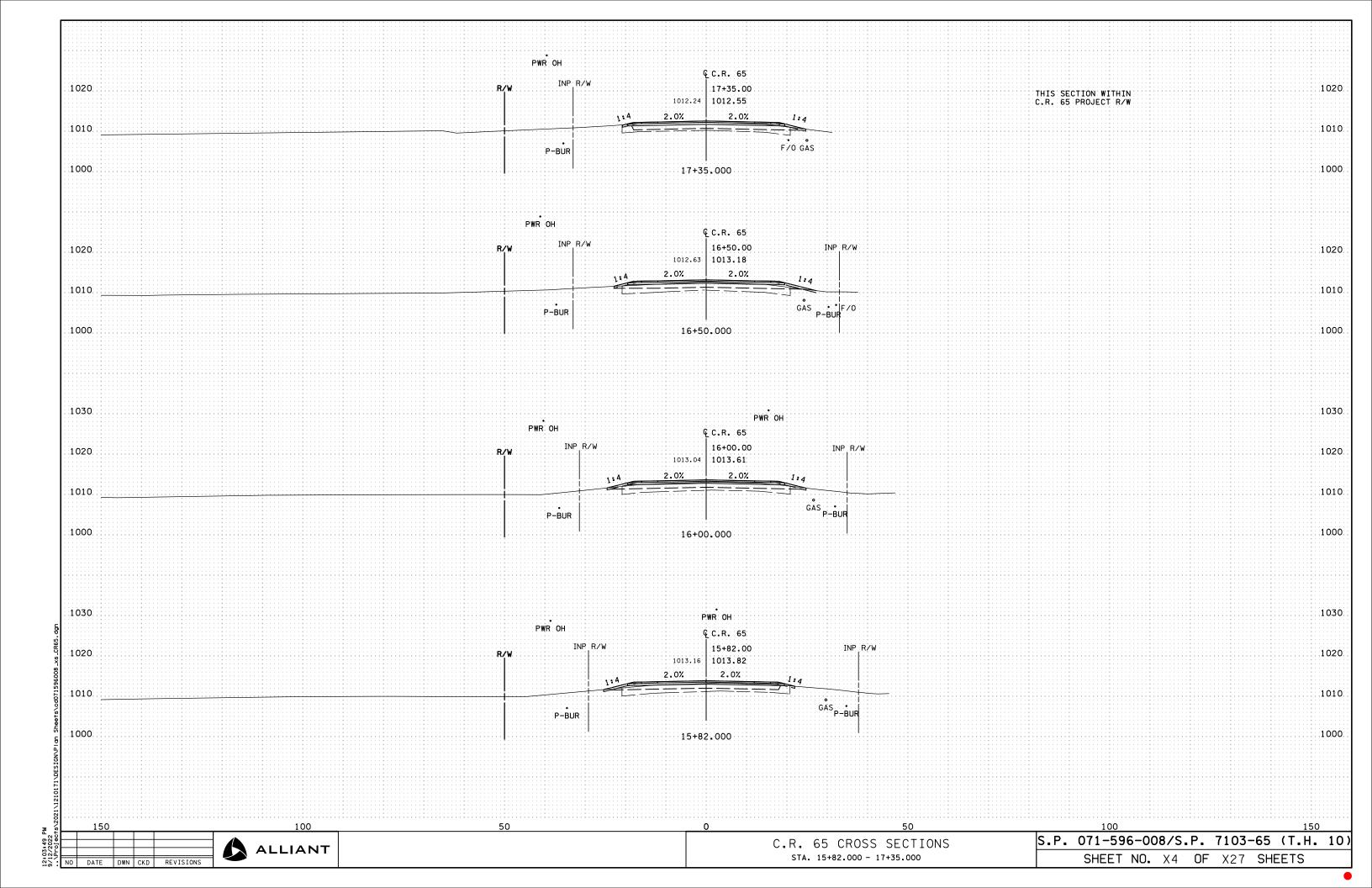
S.P. 7103-65/S.P. 071-596-008 (T.H. 103 SHEET NO. 119 OF 120 SHEETS

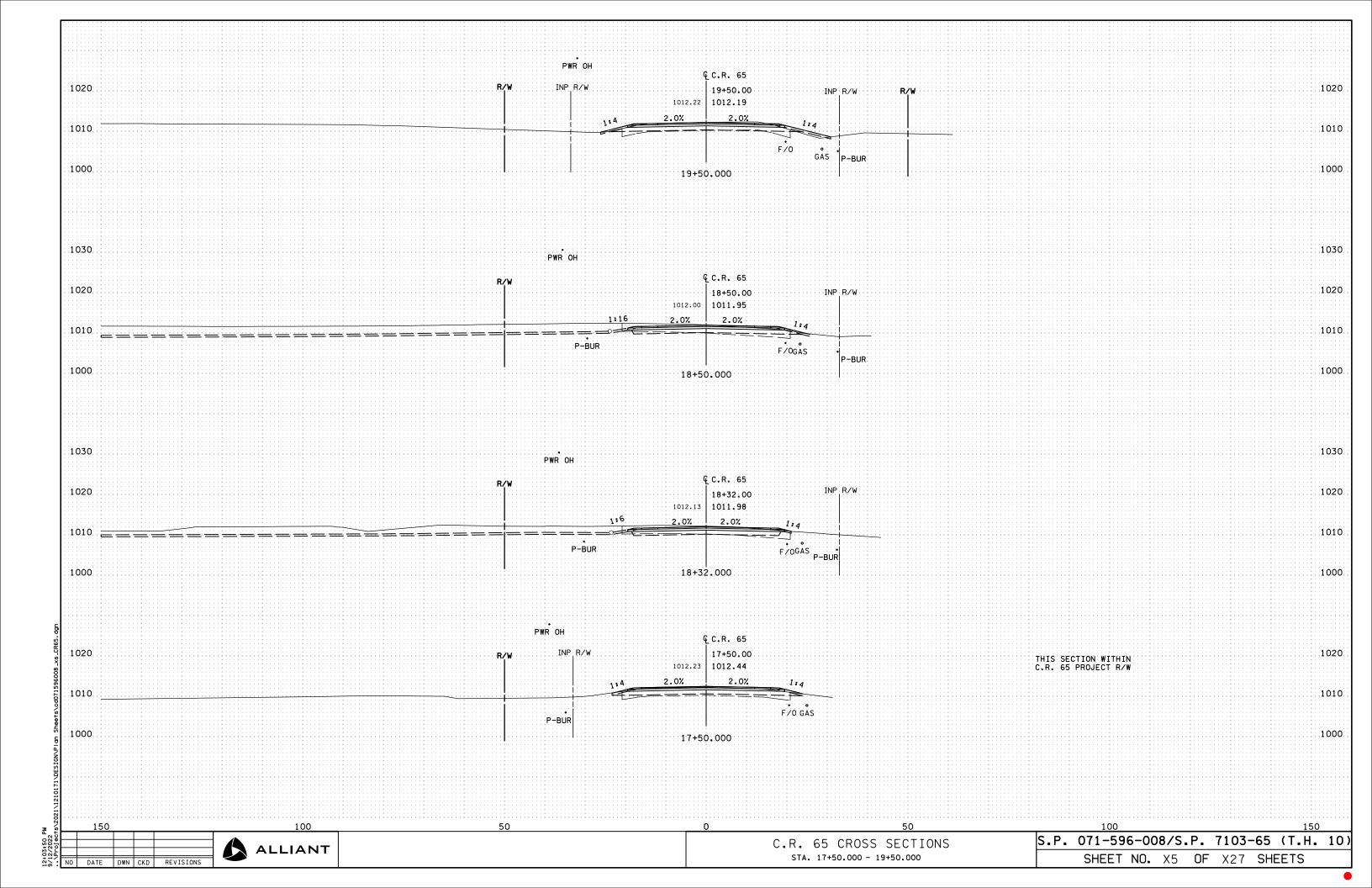


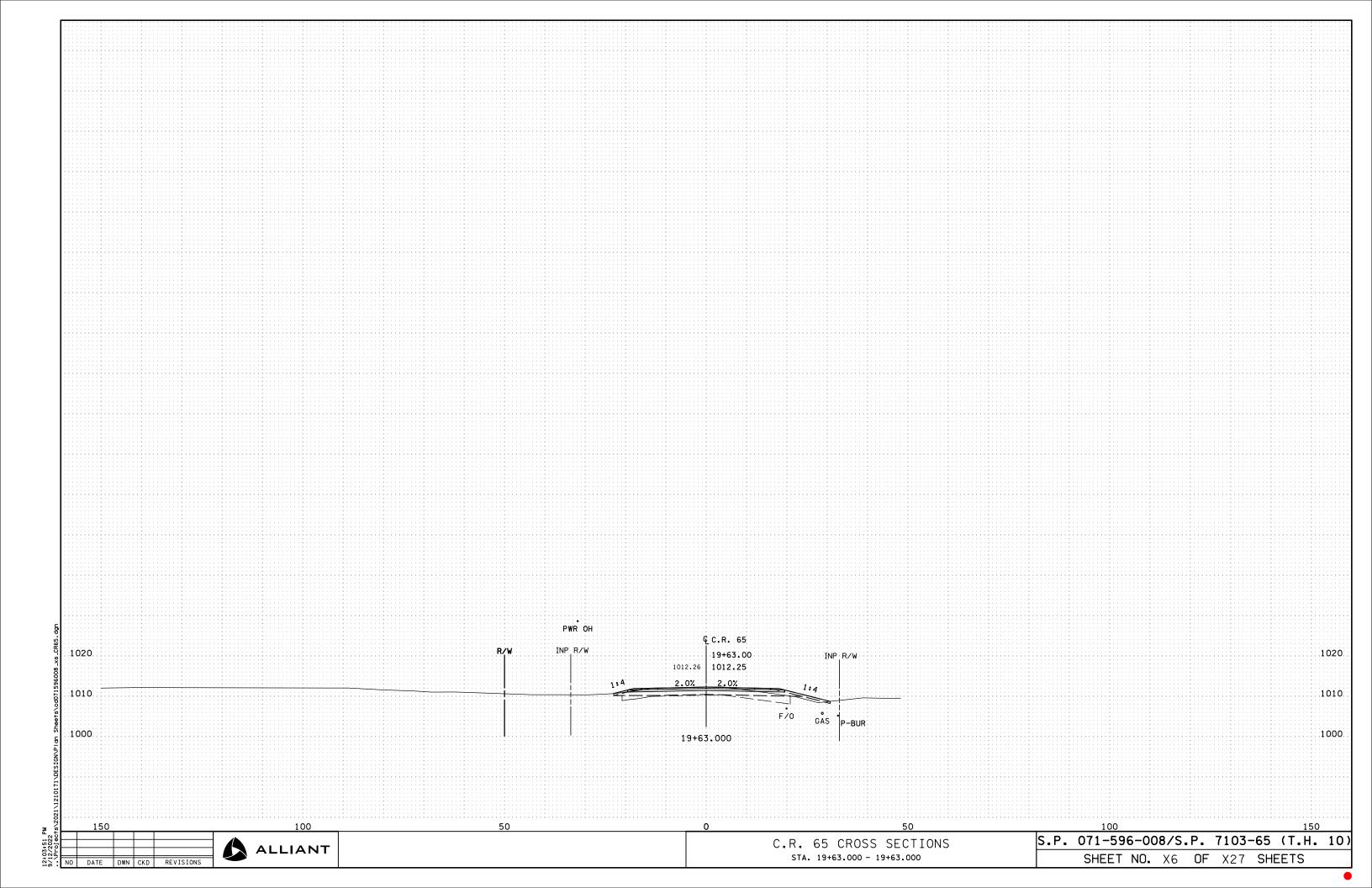


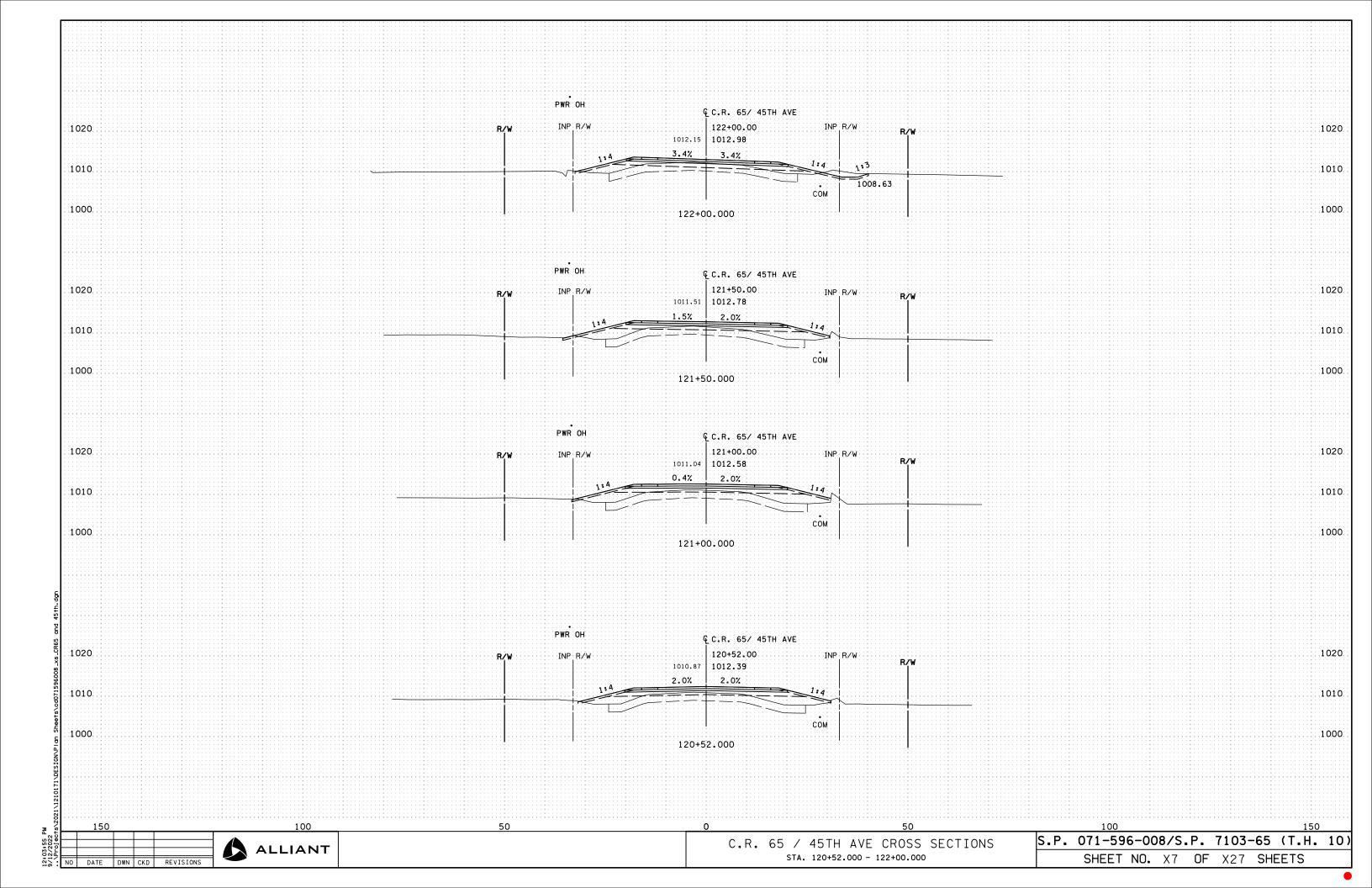


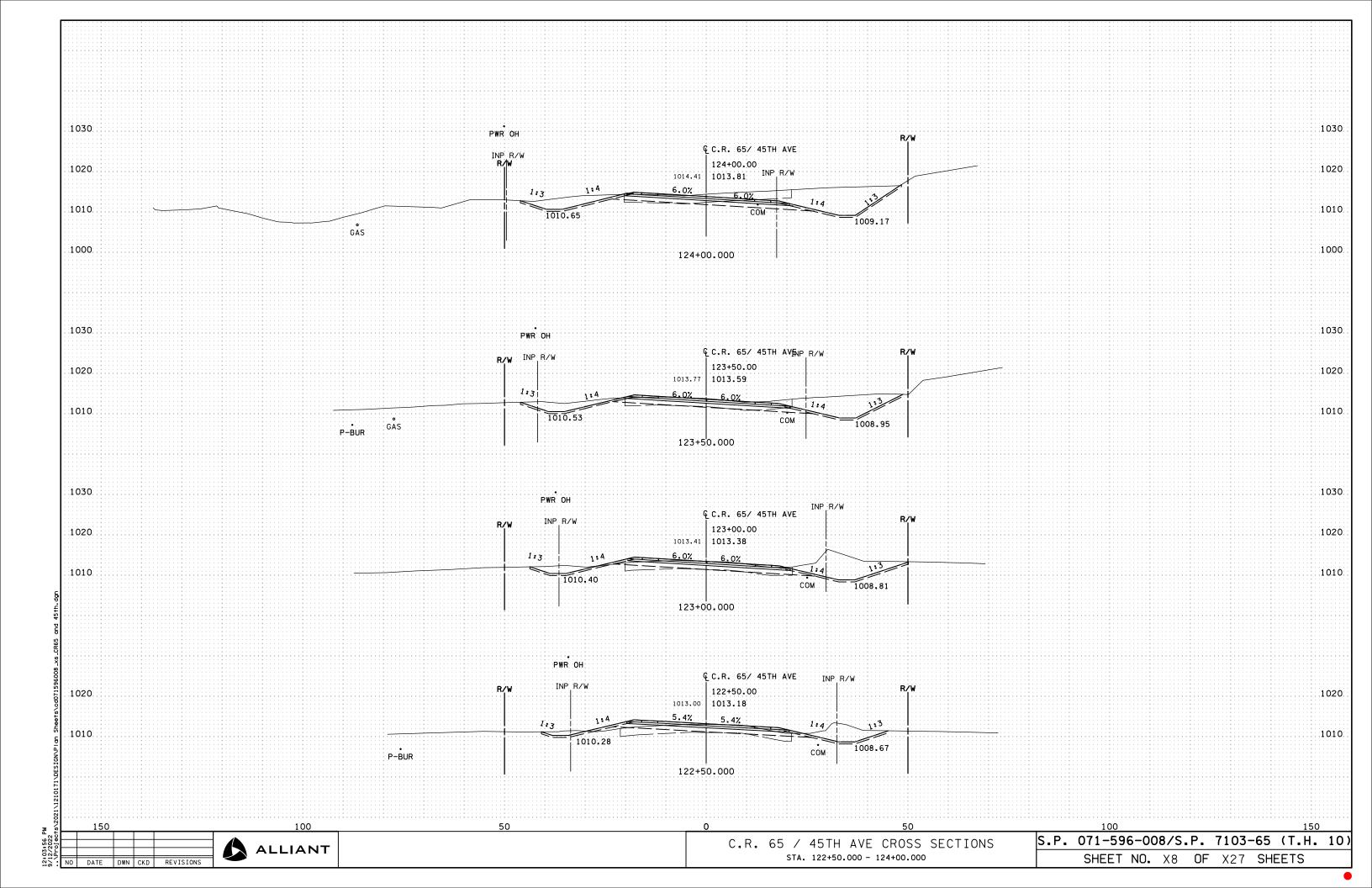


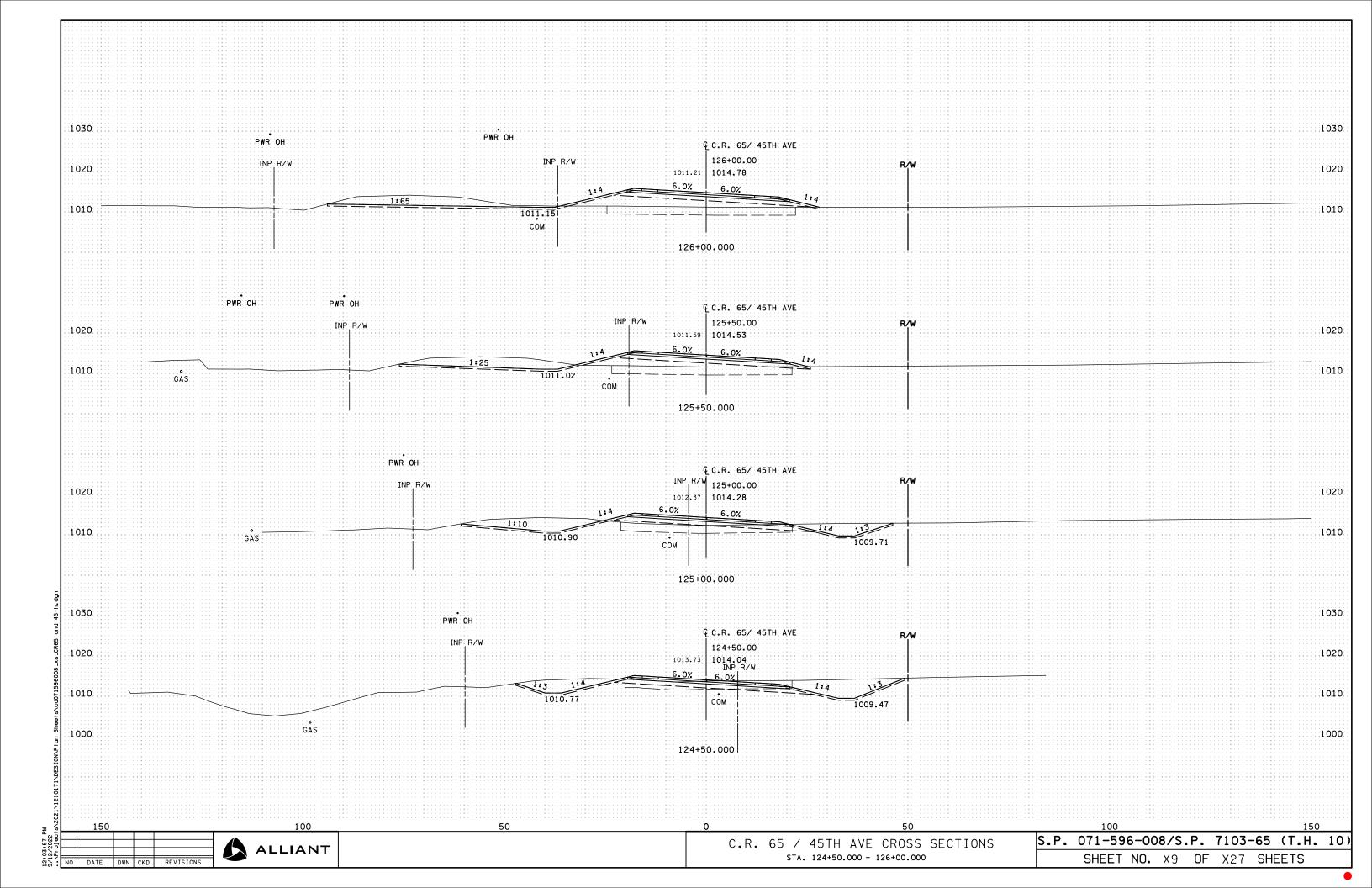


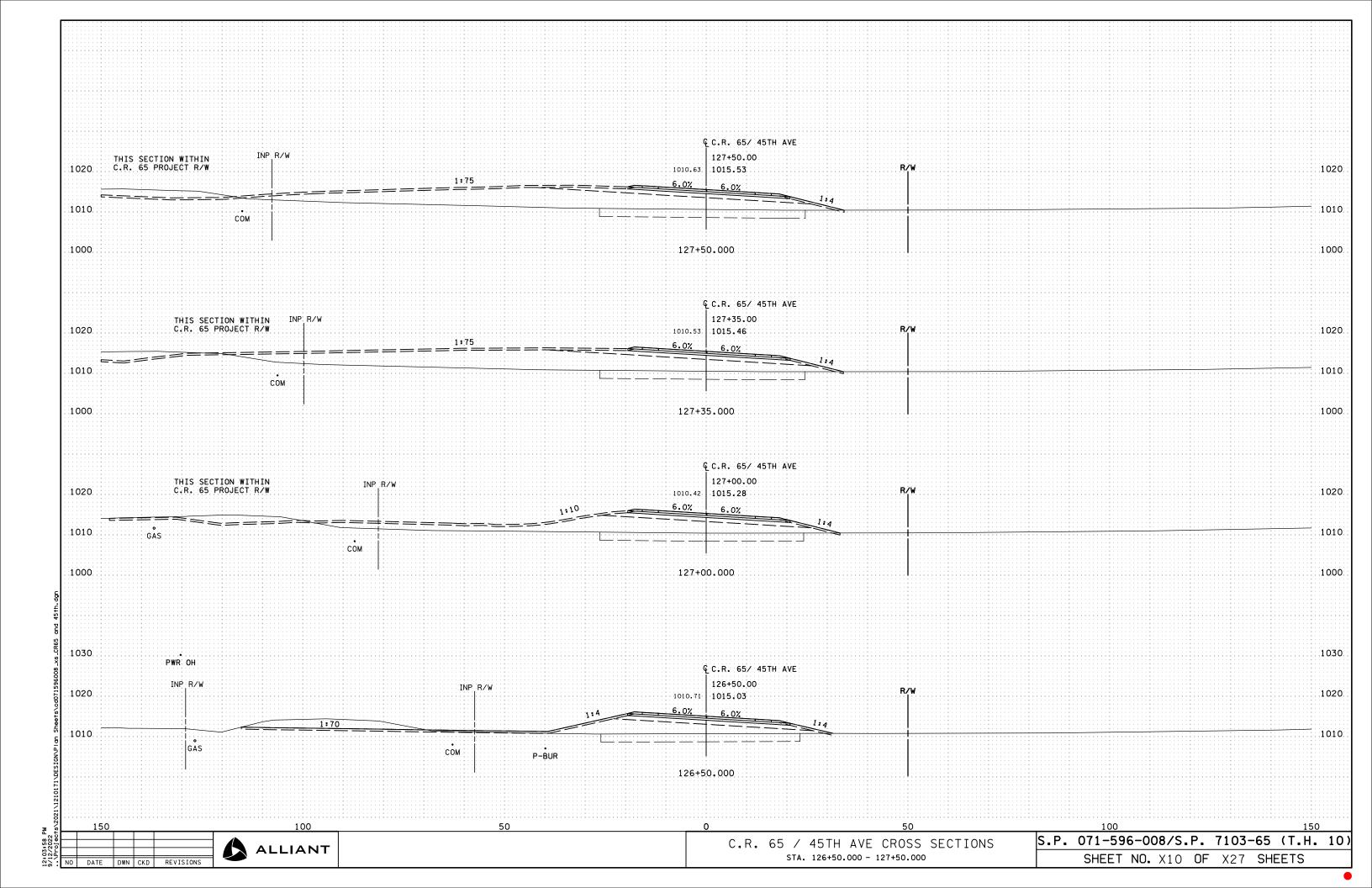


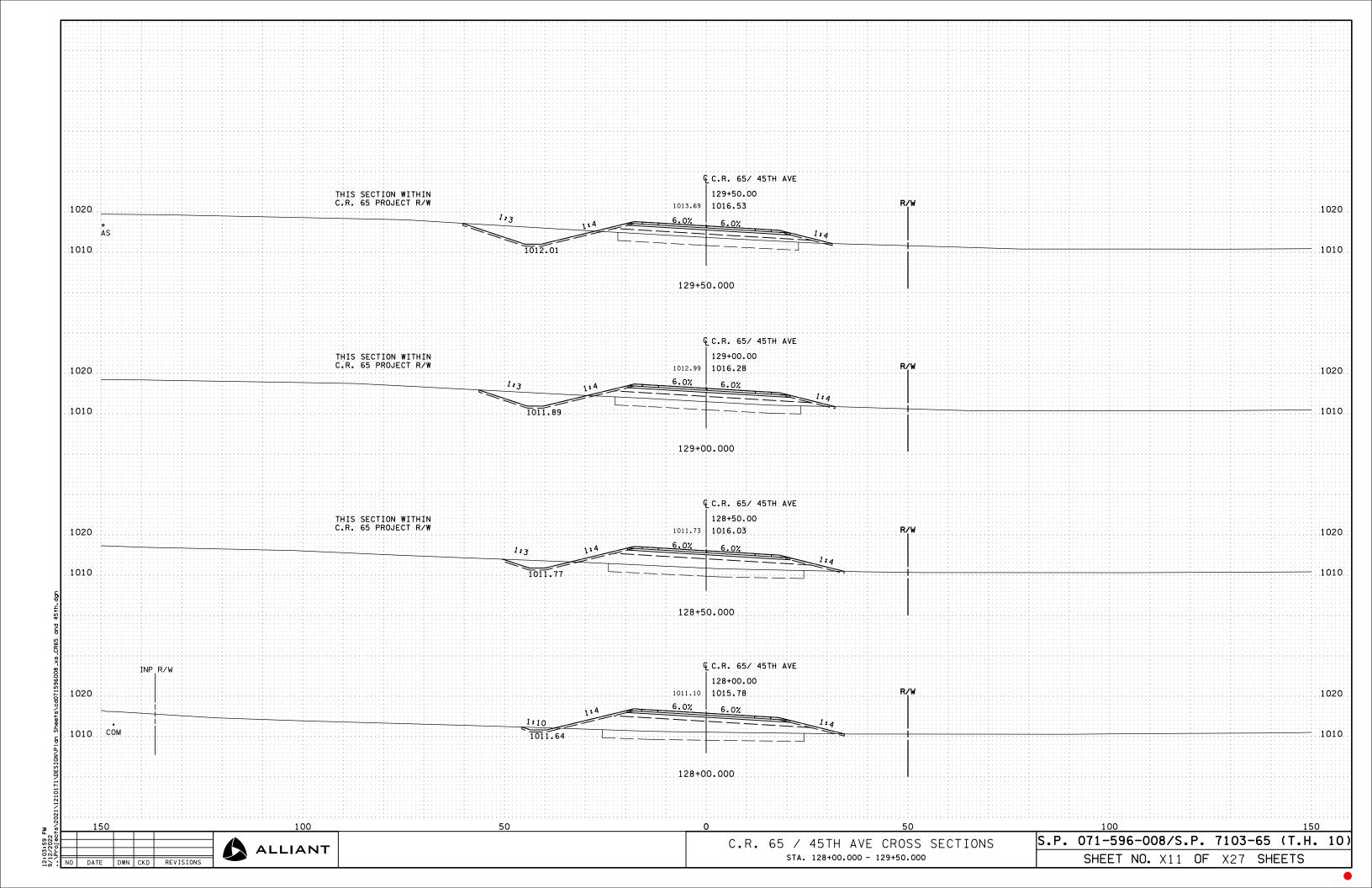


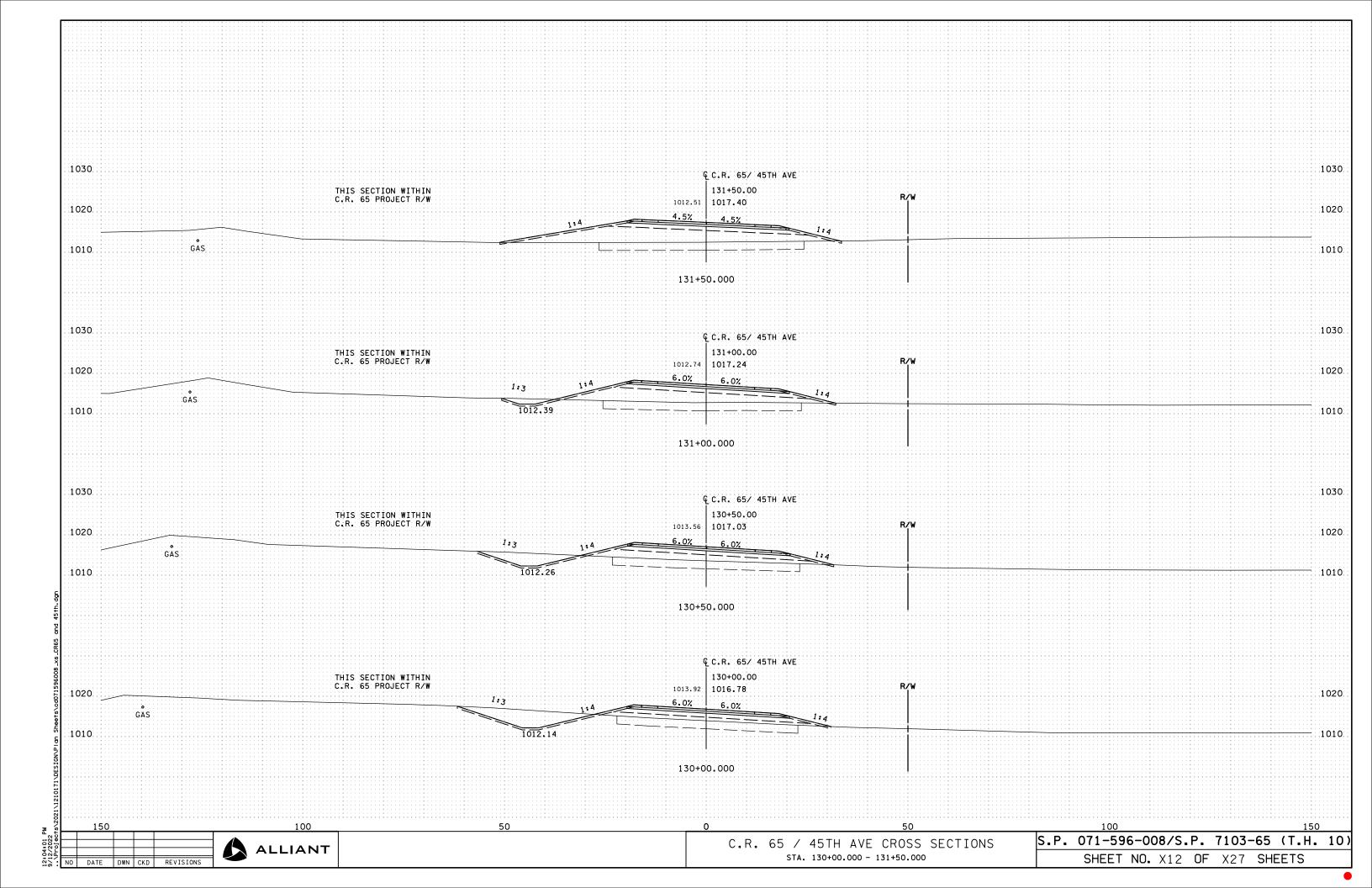


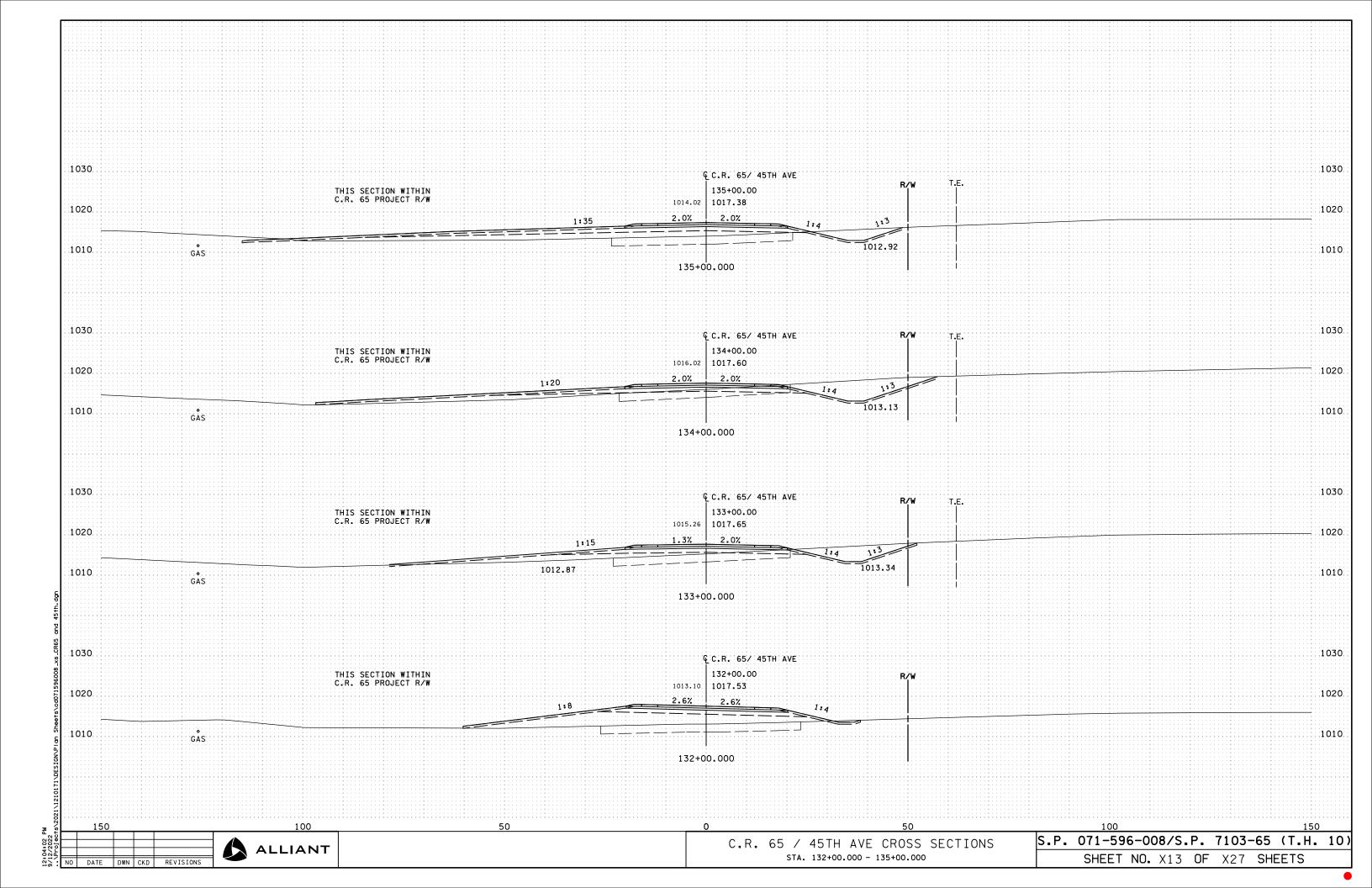


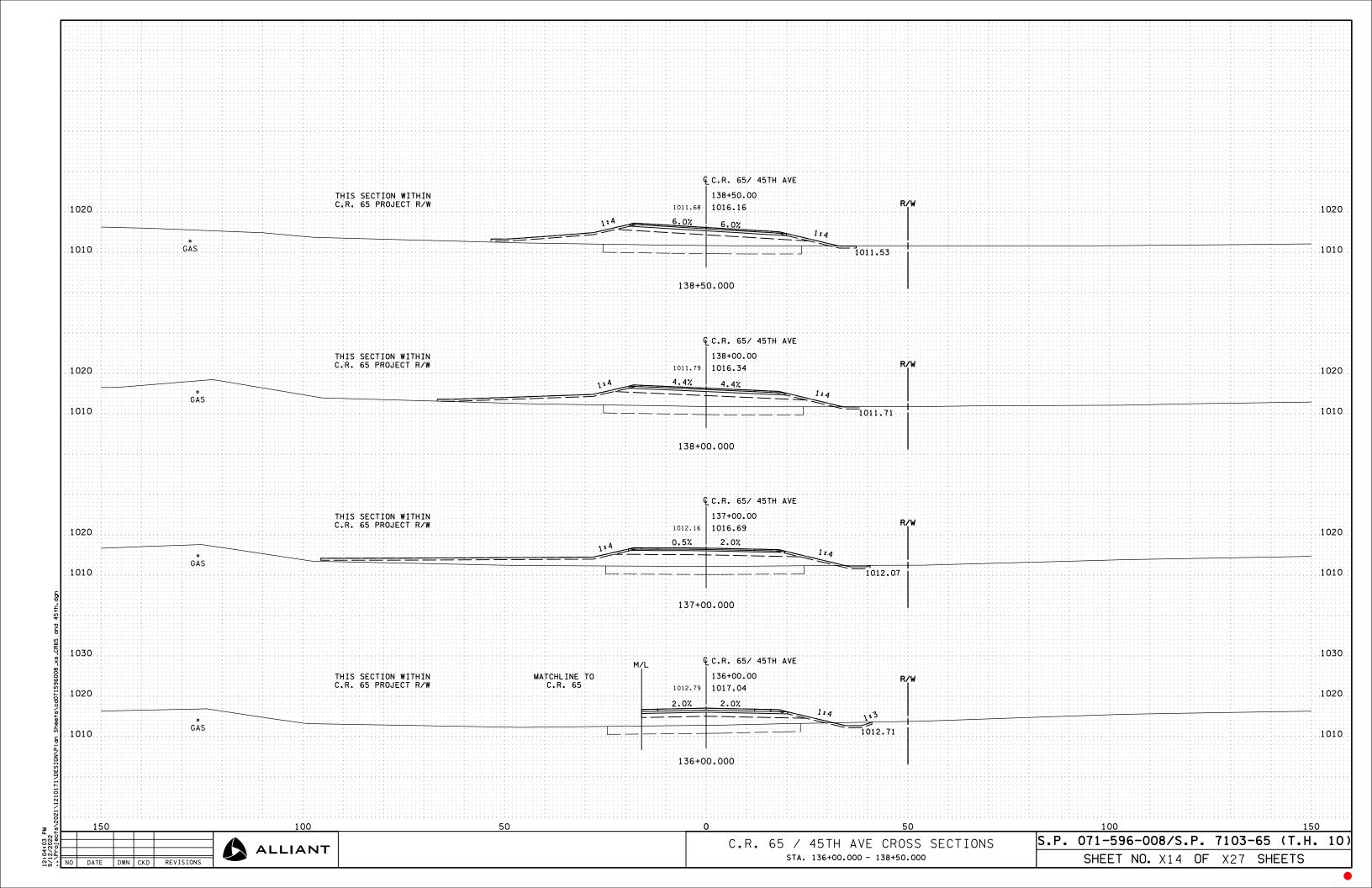


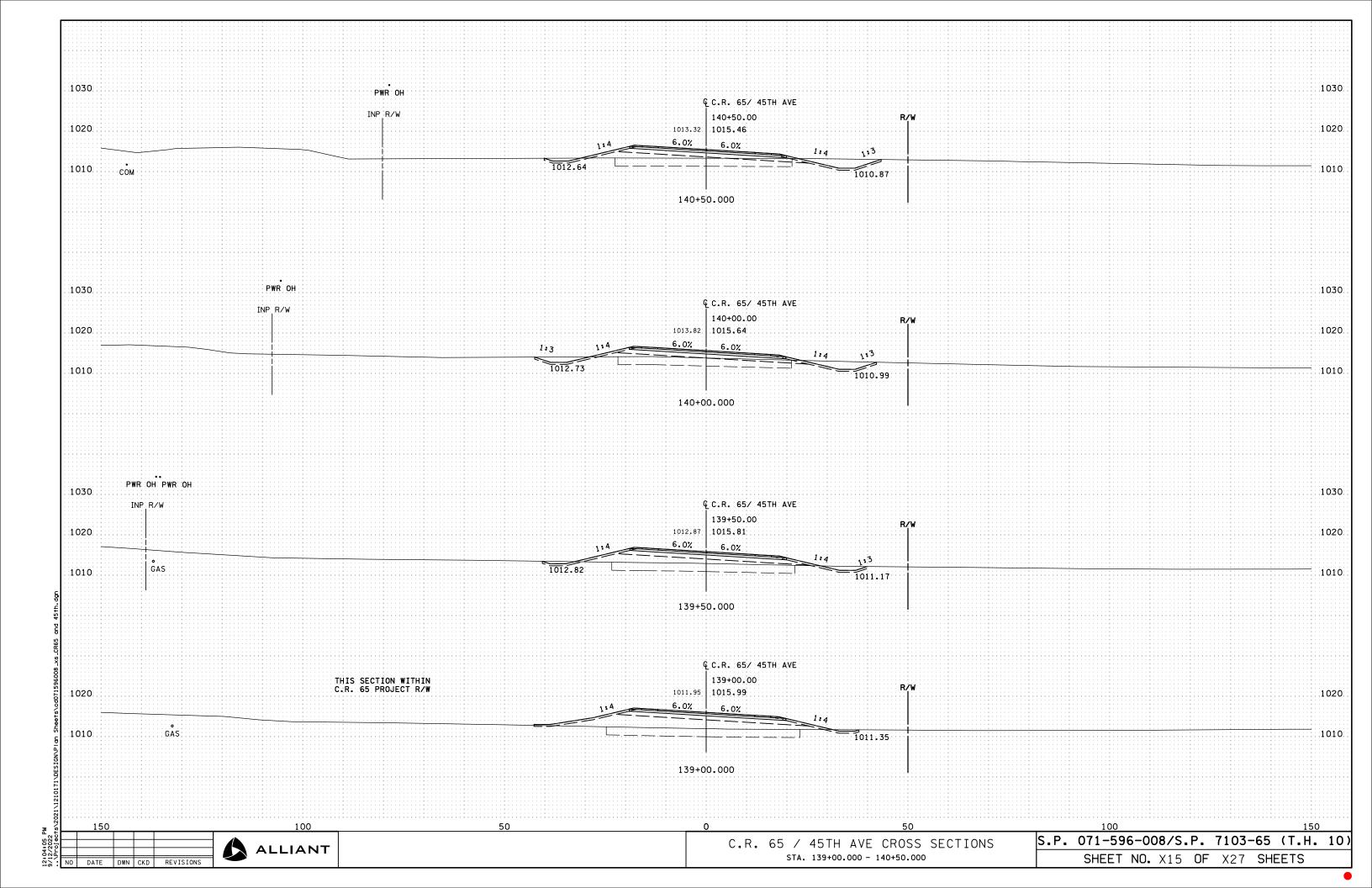


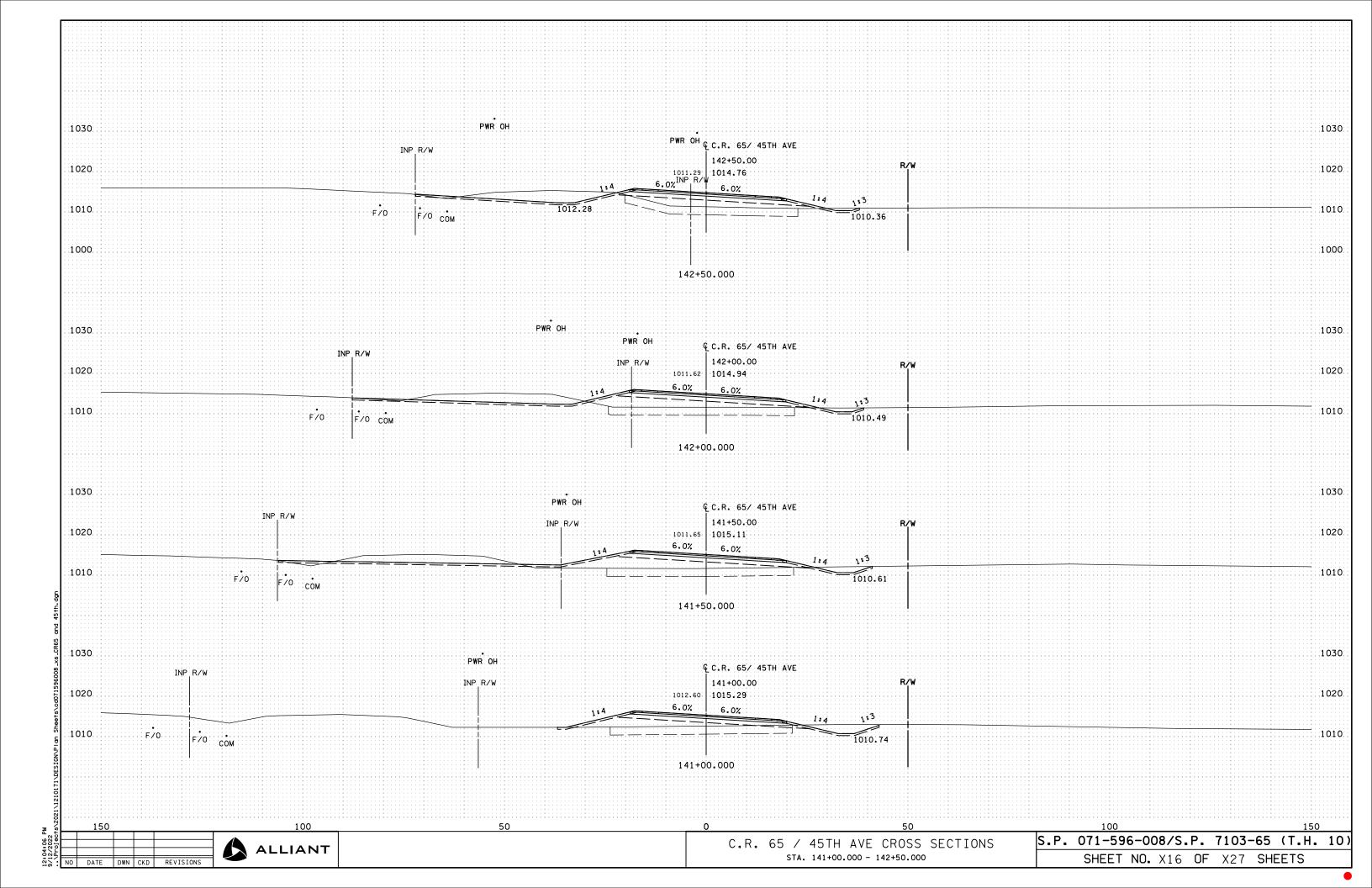


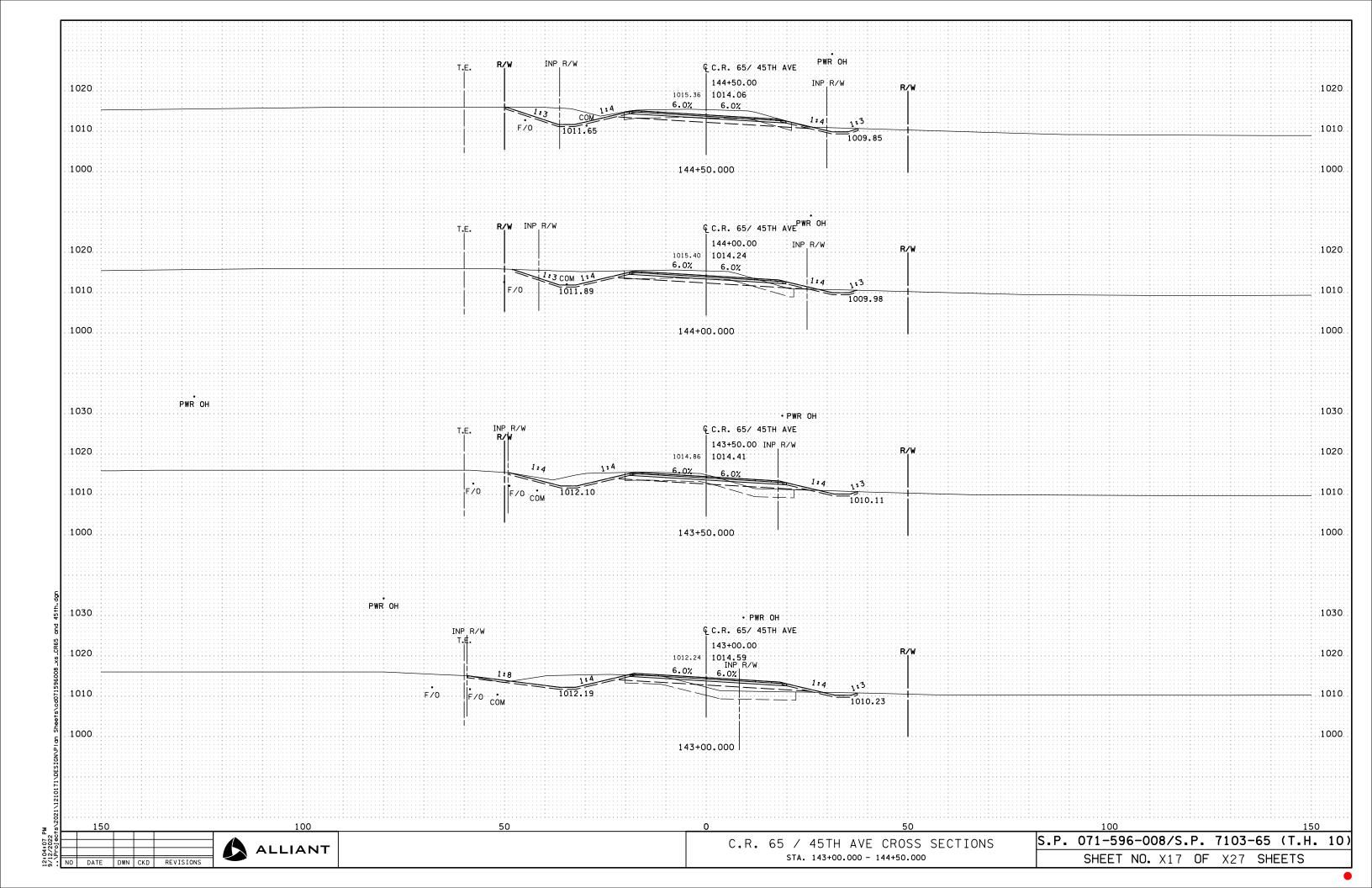


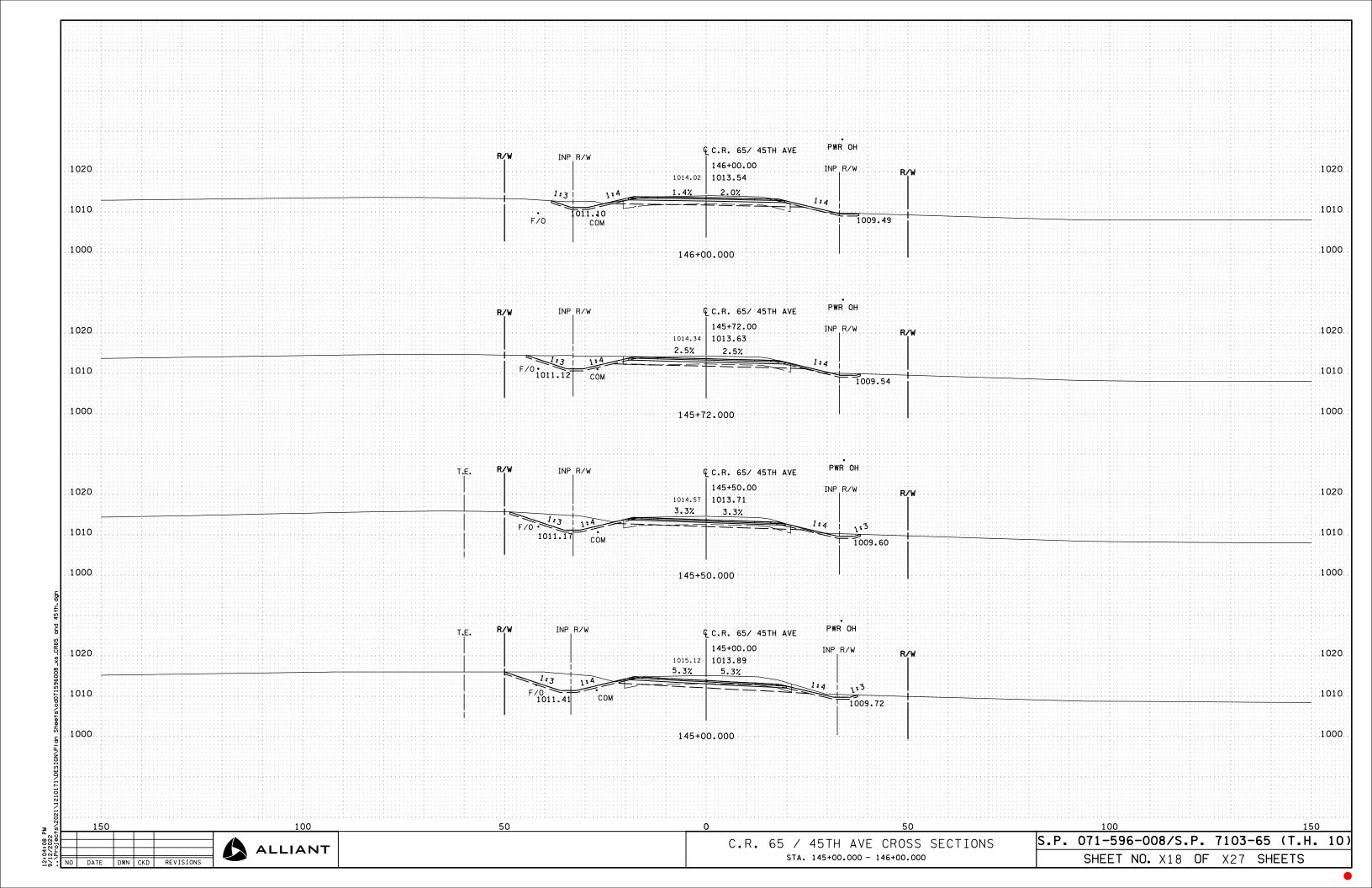


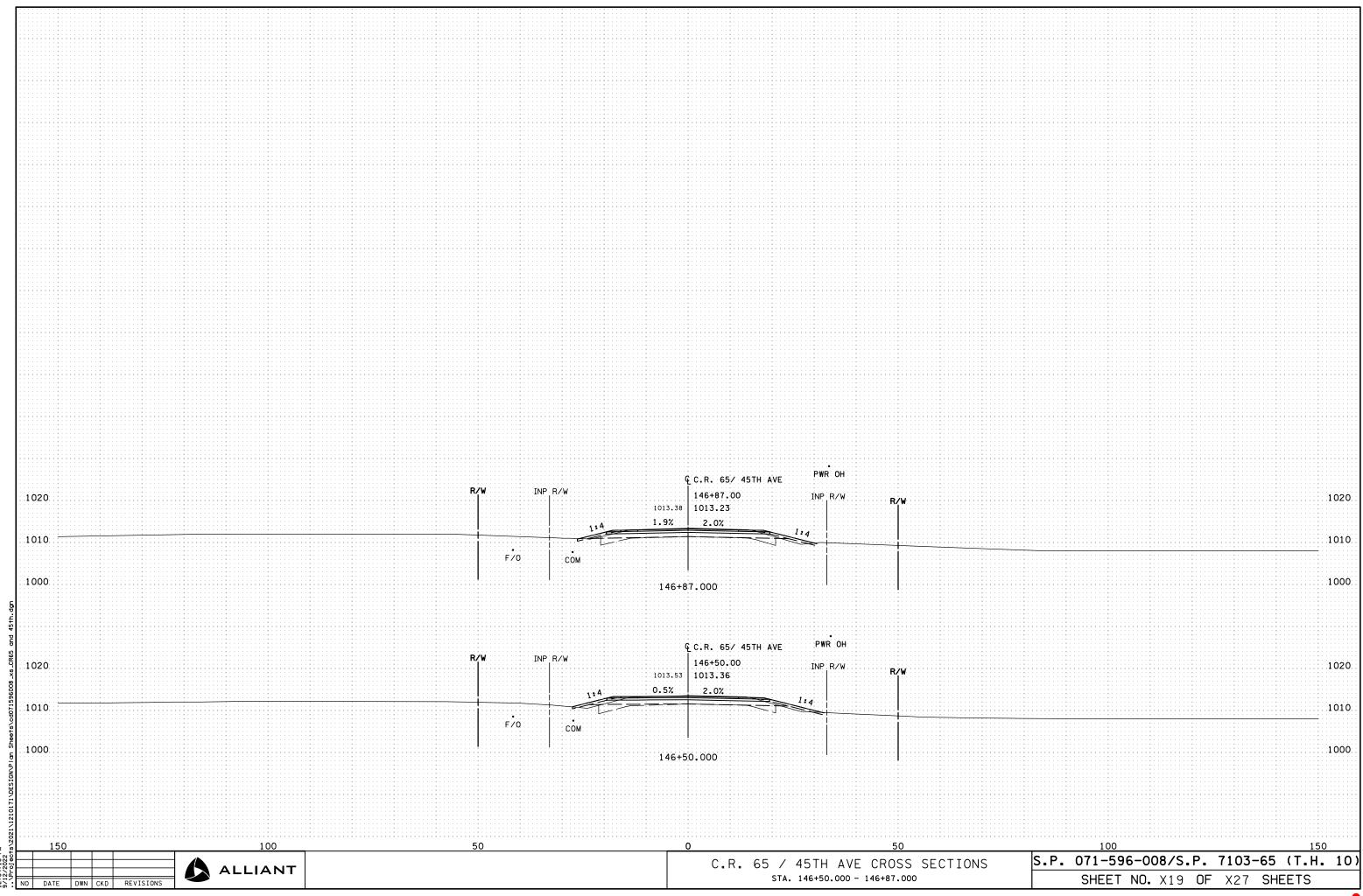




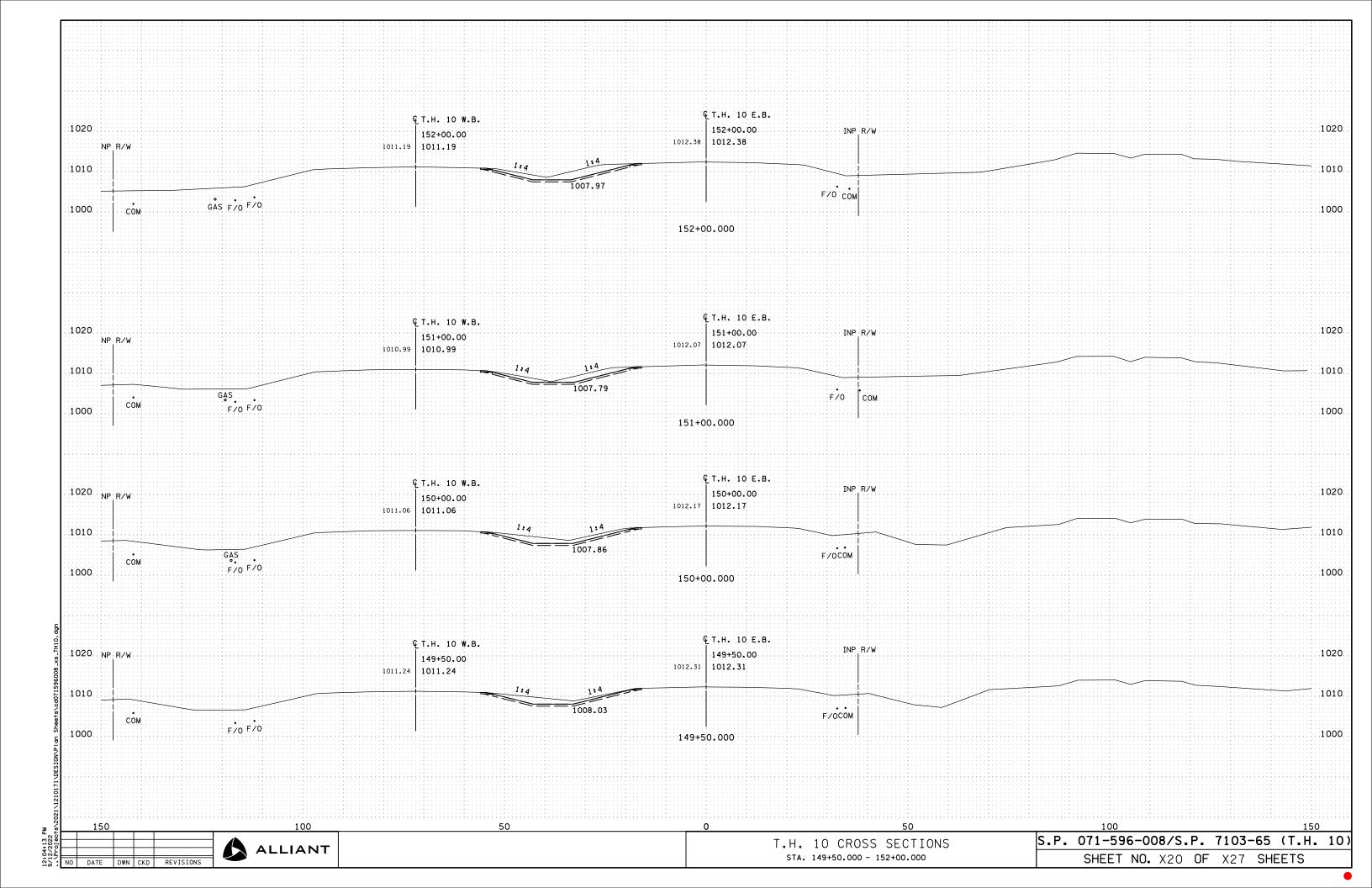


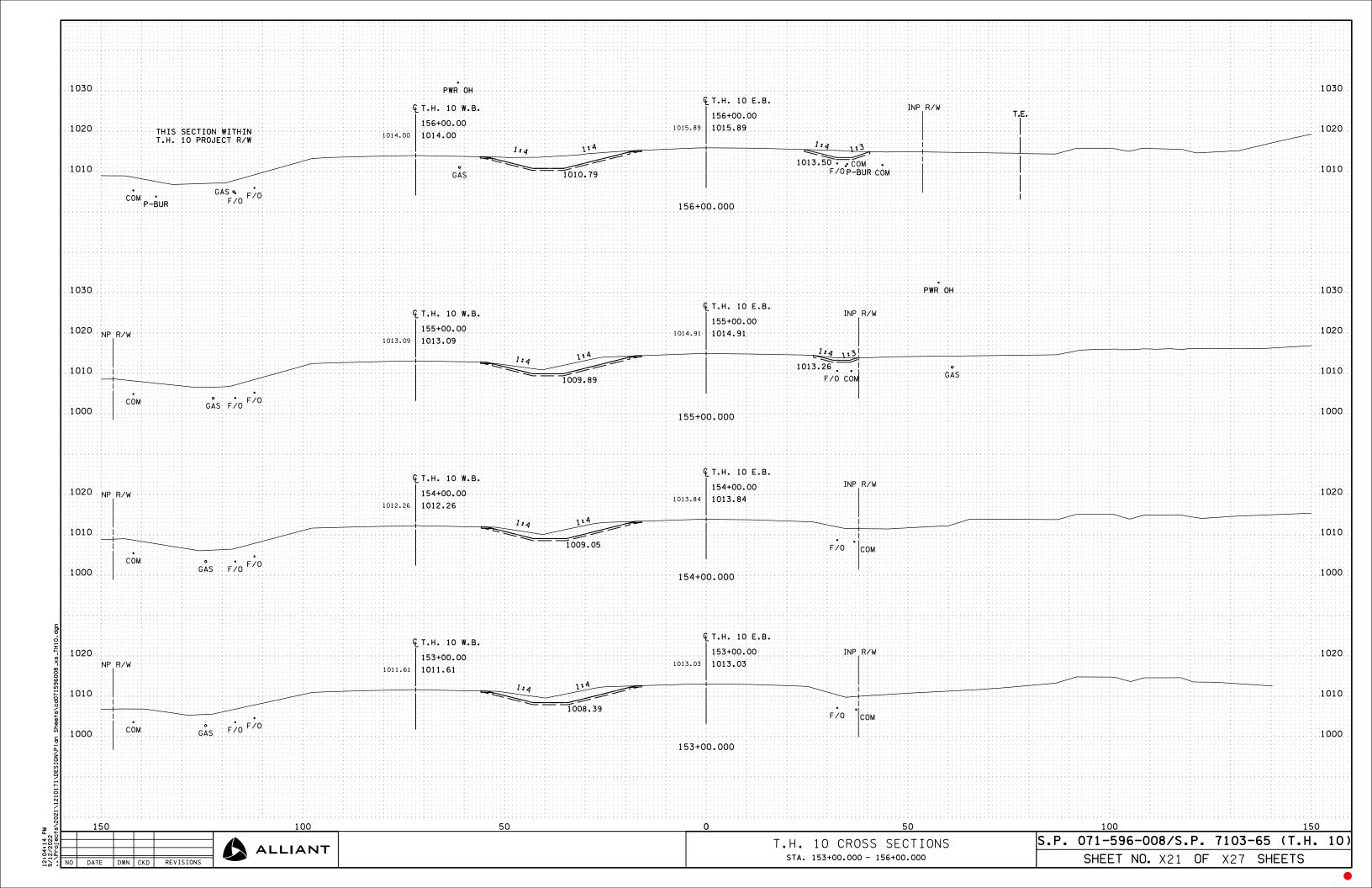


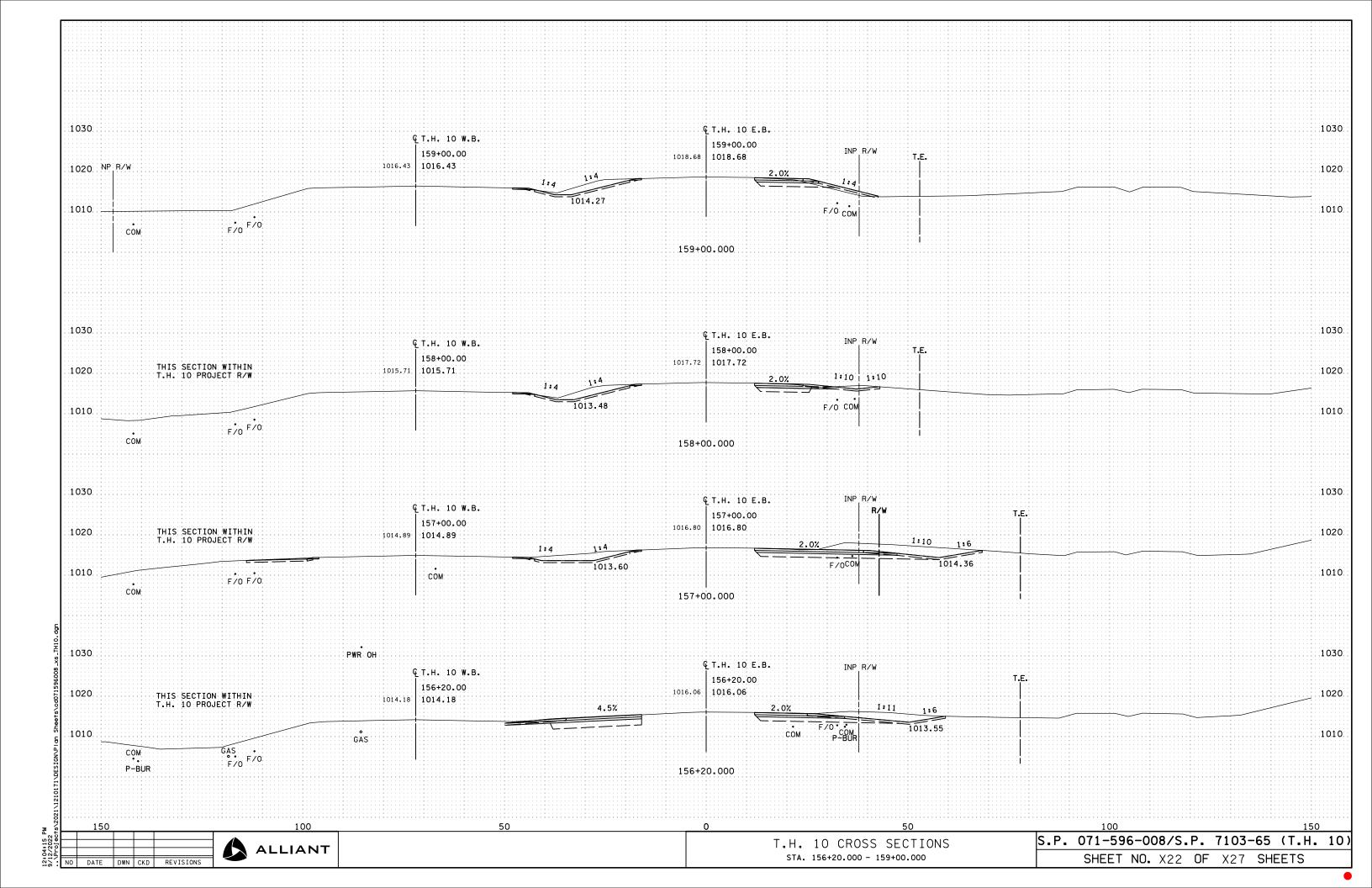


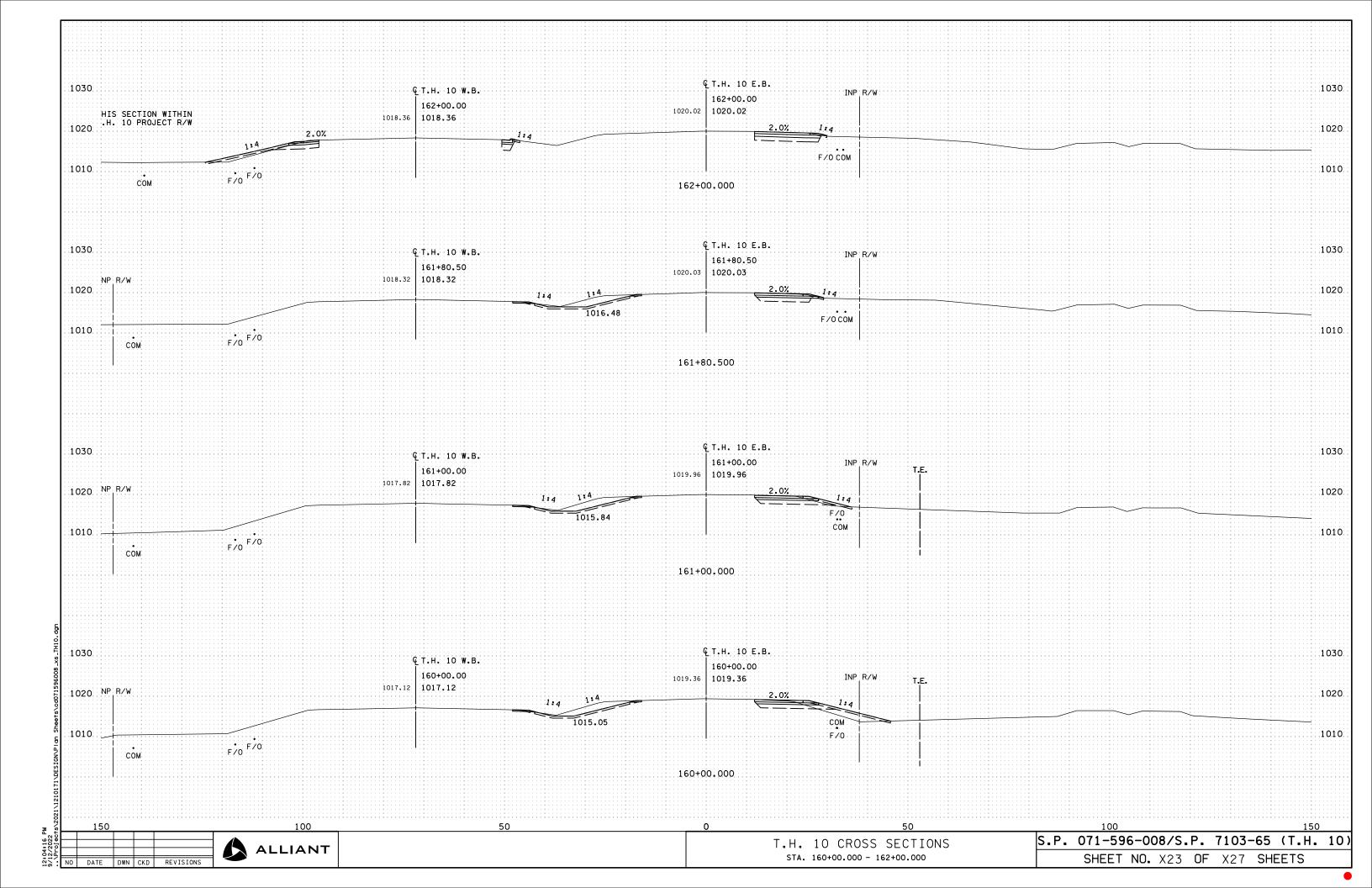


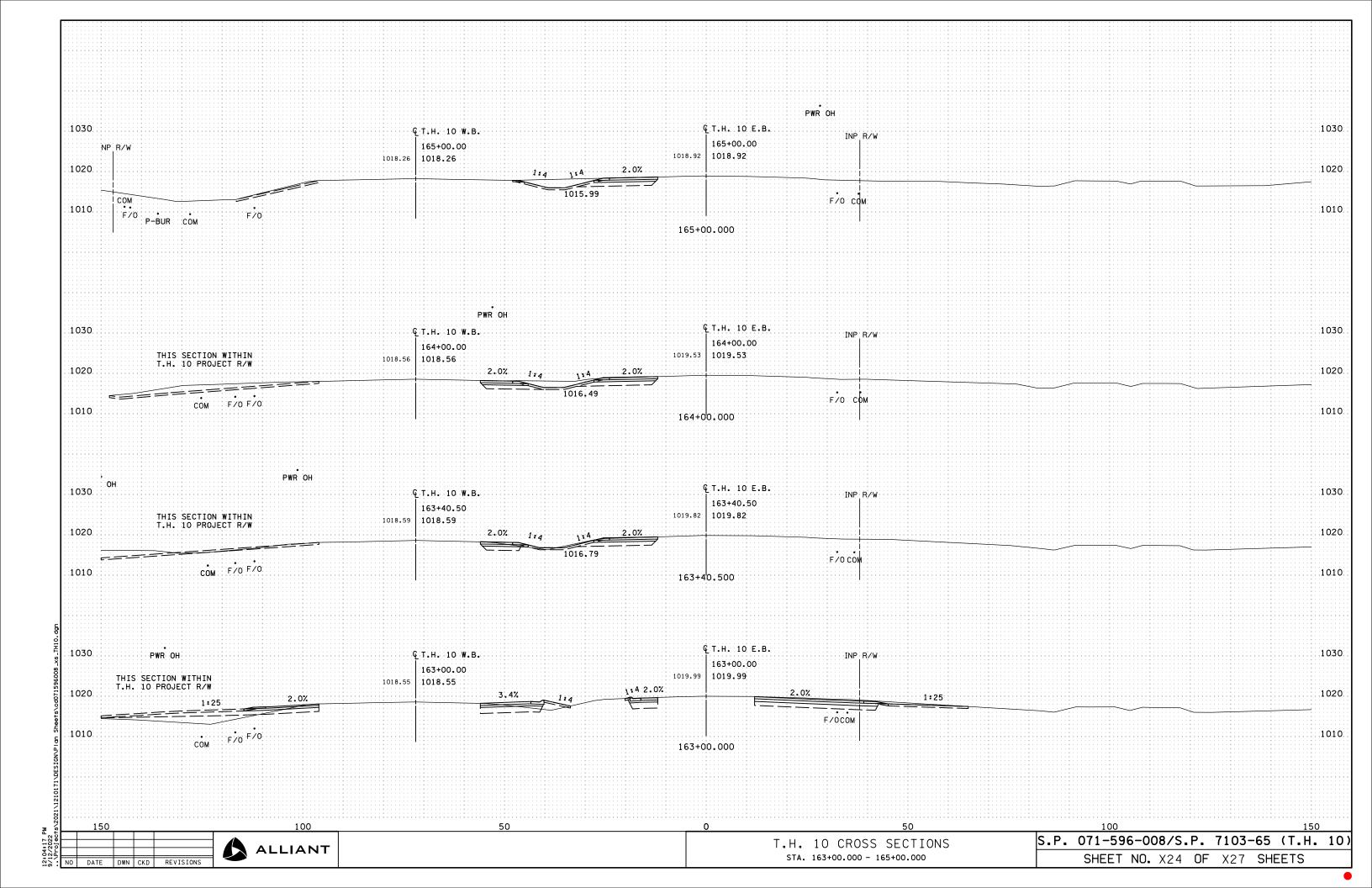
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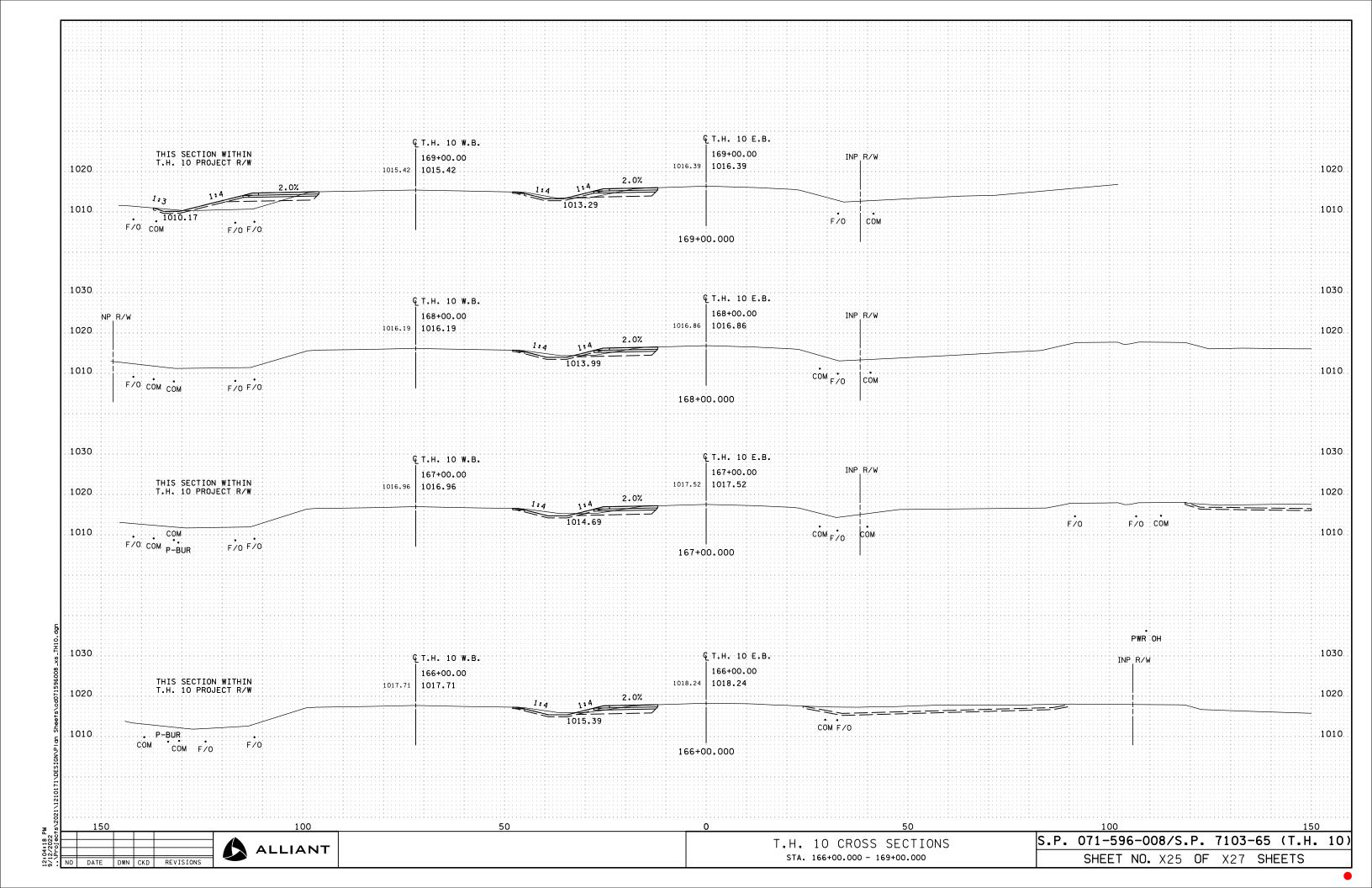


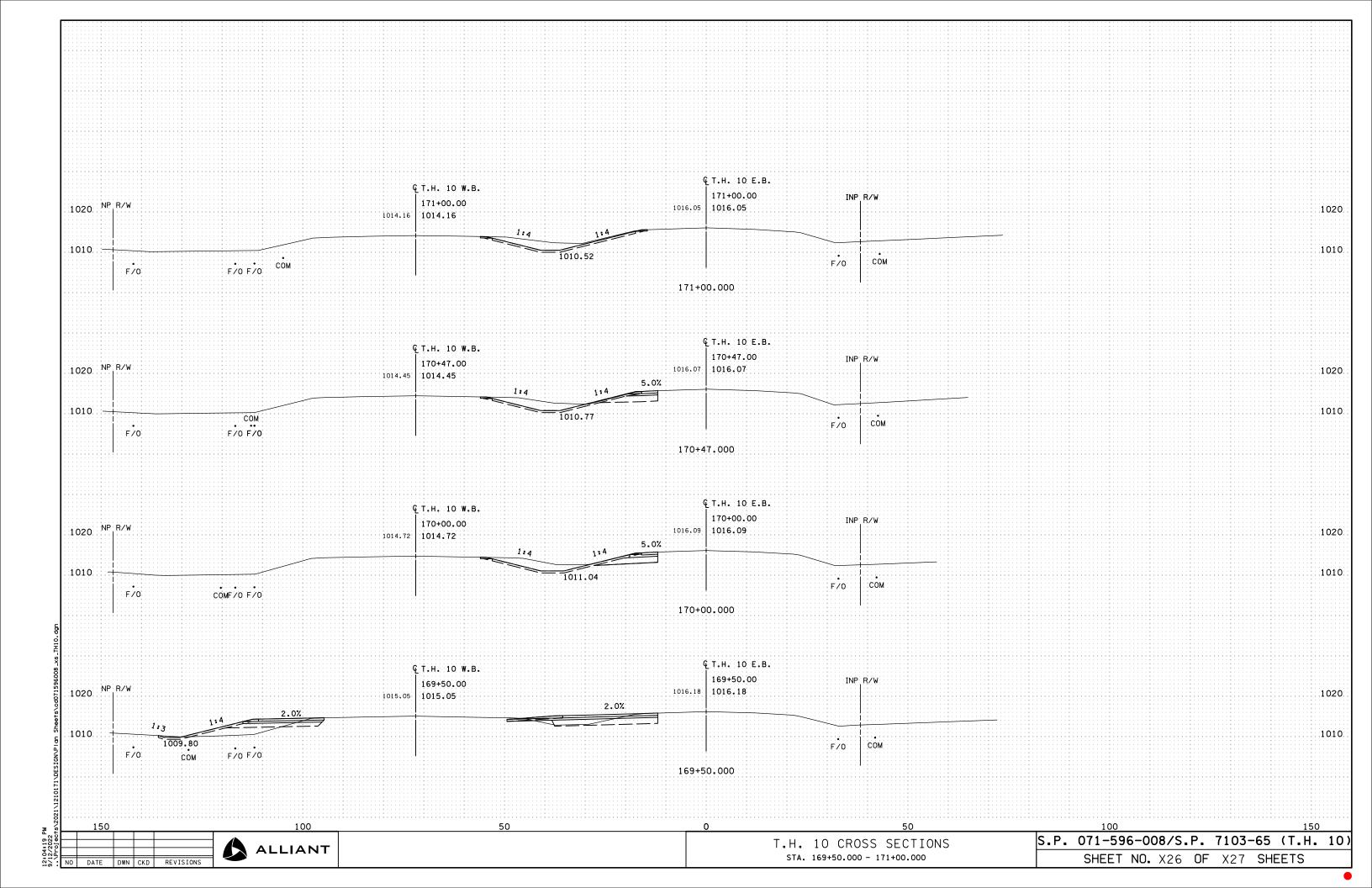


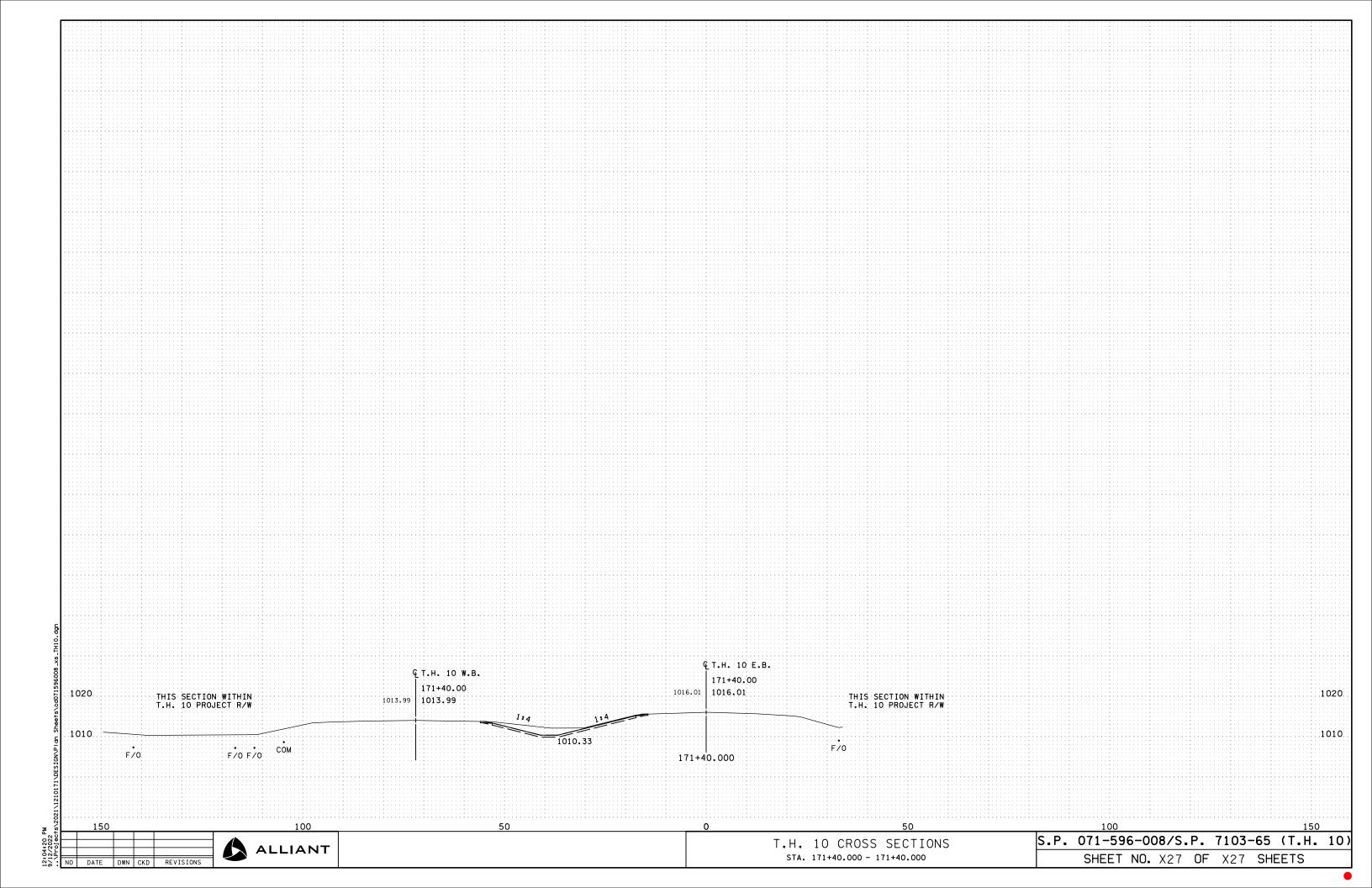














Sherburne County Sheriff 13880 Business Center Dr Elk River MN 55330

Ph: (763) 765-3500

## **CAD Summary Report - Haven Township August 2025**

### **Sherburne County Sheriff**

	08/25	Total
90500 BURGLARY	1	1
90710 THEFT-MOTOR VEHICLE	1	1
91650 HARASSMENT	2	2
91700 OBSCENITY	1	1
9201 DAR/DAS/DAC	3	3
92750 FRAUD COMPLAINT	1	1
9440 ACCIDENT-MV-PROPERTY DAM	1	1
9560 ANIMAL COMPLAINT	3	3
9561 CONSERVATION	2	2
9562 DOG COMPLAINT	3	3
9600 FIRE-OTHER	1	1
9720 DEATH	2	2
9730 MEDICAL	5	5
9740 MENTAL CASE	2	2
9762 ALARM-MEDICAL	1	1
9800 MISCELLANEOUS PUBLIC	2	2
9802 PUBLIC ASSIST	5	5
9803 AGENCY ASSIST	3	3
9804 ALARM-SECURITY	3	3
9805 CIVIL COMPLAINT	1	1
9807 TRAFFIC STOP	30	30
9808 TRAFFIC COMPLAINT	5	5
9811 SUSPICIOUS PERSON	1	1
9814 ATTEMPT TO LOCATE	1	1
9817 SECURITY CHECK	7	7
9818 EXTRA PATROL	13	13
9823 CHECK THE WELFARE	3	3
9826 ATV COMPLAINT	4	4
9828 REPOSSESSION	1	1
9829 FIREWORKS COMPLAINT	2	2
9850 PAPER SERVICE	1	1
9853 SUSPICIOUS ACTIVITY	4	4
9900 MISCELLANEOUS OFFICER	5	5
Public lift assist	2	2
Through Signs	1	1
UAV Deployment	1	1

Printed On: 09/02/25 09:19



Sherburne County Sheriff 13880 Business Center Dr Elk River MN 55330

Ph: (763) 765-3500

**CAD Summary Report - Haven Township August 2025** 

Total 124 124

Printed On: 09/02/25 09:19



August 26, 2025

Delivery via Email Please Reply "Received"

Ms. Tammy Schefers Township of Haven PO Box 339 St. Cloud, MN 56304

RE: Spectrum Channel Lineup - Victory Channel and Re-Launch 8 Disney-Owned Cable Networks

Dear Ms. Schefers:

Spectrum Mid-America, LLC ("Spectrum") recently learned that Olympusat will terminate distribution of the Victory Channel on September 20, 2025, on channels 149 and 850 on the channel lineup serving your community. On September 19, 2025, Spectrum will display a slate message on these channels that programming is no longer available. This change is out of Spectrum's control.

On or after September 30, 2025, Spectrum Mid-America, LLC ("Spectrum") will launch the following cable networks on the channel lineup serving your community:

- 1. Disney XD
- 2. Disney Jr
- 3. Freeform
- 4. FXX
- 5. FXM
- 6. Nat Geo Wild
- 7. Nat Geo Mundo
- 8. Baby TV

Dad Las

If you have any questions about these changes, please feel free to contact me at (952) 367-4263 or via email at david.larson@charter.com.

Sincerely,

**David Larson** 

Director of State Government Affairs Minnesota

**Charter Government Affairs** 

From: Minnesota Association of Townships info-

mntownships.org@shared1.ccsend.com

Subject: Invitation Reminder: Legislative & Research Committee Fall

2025 Meeting

Date: Aug 25, 2025 at 8:37:40 AM

To: Tammy Schefers clerk@haventwp.org





SEPTEMBER 12, 2025
MANKATO, MINNESOTA

All township officers are invited and encouraged to attend the Fall 2025 Meeting of the MAT Legislative & Research (L&R) Committee. This event helps develop, review, and recommend legislative priorities and actions on behalf of the Minnesota Association of Townships. More information about this event and process can be found on here on the MAT website here.

PRE-REGISTER HERE: https://forms.gle/mVgkikiUjkX5RYjWA

(Pre-registration is strongly encouraged to help with our lunch count, but on-site registration is also available.)

DATE: Friday, September 12, 2025

**LOCATION:** Mayo Clinic Health System Event Center – Grand Hall, (Enter in Door 1) 1 Civic Center Plaza, Mankato, MN 56001

**COST: NEW: FREE!** There will be no cost to township officers to encourage attendance and participation. Included are materials, refreshments, and lunch.

#### LODGING OPTIONS (if needed):

Hilton Garden Inn, 20 Civic Center Plaza, Mankato, MN 56001 (across the street from the Mayo Clinic Event Center)

- Book online with special MAT rate: <a href="https://group.hiltongardeninn.com/un1bkt">https://group.hiltongardeninn.com/un1bkt</a> (Note: "edit stay" and adjust stay dates to match your needs.)
- Booking via phone: (507) 344-1111 and mention the MN Association of Townships.
- MAT rate: Night of September 11: \$155 plus tax, and Night of September 12: \$195 plus tax
- Room block is guaranteed only through August 24, 2025.

**Hotel Alexander,** 215 E Hickory St, Mankato, MN 56001 (also across the street from the Mayo Clinic Event Center) – new locally owned hotel

- Night of September 11: \$169 plus tax
- Book online with a special MAT rate: Hotel Alexander Direct Booking
- Reservations are based on a first-come /first-serve basis.

#### DRAFT AGENDA (as of August 25, 2025)

10:00: On-site registration opens

10:30: Welcome, pledge, and introductions

- · Jill Hall, MAT Board of Directors President
- Graham Berg-Moberg, MAT In-House Counsel
- 10:35: Review of 2025 Minnesota Legislative Session and 2025 MAT Legislative Agenda
  - Graham Berg-Moberg, MAT In-House Counsel
  - Shep Harris, MAT Lobbyist

11:00: Review and consider new resolutions

11:15: Consider and finalize 2026 MAT Legislative Agenda (start)

12:00: Lunch with Speaker Senator Nick Frentz (D-Mankato) (invited)

1:00: Legislative Panel (Issue TBD)

1:45: Break

2:00: Legislative Panel (Issue TBD)

2:45: Consider and finalize 2026 MAT Legislative Agenda (finish)

4:00: Closing

#### **CONTACT US**

Minnesota Association of Townships | 805 Central Ave East P.O. Box 267 | St. Michael, MN 55376 US

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# COURI & RUPPE, P.L.L.P

Michael C. Couri\* Robert T. Ruppe\*\* Mark S. Allseits Attorneys at law
705 Central Avenue East
PO Box 369
St. Michael, MN 55376-0369
(763) 497-1930
(763) 497-2599 (FAX)
www.couriruppe.com

\*Also Licensed in Illinois

\*\*Also Licensed in California

August 27, 2025

#### VIA USPS STANDARD AND CERTIFIED MAIL

Nathan J. Kelly 6338 45th Avenue SE St. Cloud, MN 56304

Re: Notice of Violation - Driveway Culvert Requirement, PID 25-00430-0110

Dear Mr. Kelly:

This office represents Haven Township. The Township has directed me to notify you of a violation concerning your driveway at 6338 45th Avenue SE, Parcel ID 25-00430-0110.

Haven Township Ordinance 2008-2, the Roads Design and Standards Ordinance, was adopted in 2008. Section 4, General Design Standards, subsection J, requires that driveways accessing Township roads include culverts as necessary to maintain proper drainage. Your residence was constructed approximately five years ago, well after the effective date of Ordinance 2008-2. As such, the construction of your driveway was subject to the ordinance requirements from the outset, including the obligation to install a culvert.

You have previously asserted that your driveway follows the location of a former farm field approach that did not include a culvert. Aerial images from dating back over a decade confirm that no such field approach existed at this site prior to the construction of your home. Even assuming arguendo that a field approach once existed, the construction of a new residence and installation of a driveway constitutes new and distinct access, which required a permit and compliance with Township standards.

Other culverts have been installed along the ditch by your property. The absence of a culvert at your driveway creates a bottleneck that impedes drainage, which may cause water to pool and increases the risk of damage to the Township Road. This condition also creates a safety hazard for the traveling public when pooling water is present.

This letter serves as formal notice that you are in violation of Ordinance 2008-2. The Township requires that you install a compliant culvert under your driveway during the 2025 construction

season, with the work completed in advance of the spring runoff in 2026. Written confirmation of your plans to complete this installation must be provided to the Township by October 15, 2025.

If you do not comply, the Township will proceed with enforcement. Under Minn. Stat. § 366.01, the Township Board has authority to regulate roadways and require compliance with its ordinances. If necessary, the Township may itself arrange for the installation of a culvert at your driveway and assess the costs to your property pursuant to Minn. Stat. § 366.012 or any other relevant authority. In addition, the Township reserves the right to initiate an enforcement action in District Court to compel compliance and recover costs, fees, and any other appropriate relief.

You are urged to treat this matter with urgency. For questions concerning specifications or permitting, you should contact the Township directly.

Best,

Mark Allseits

Couri & Ruppe, P.L.L.P.

From: Minnesota Office of the State Auditor state.auditor@osa.state.mn.us

Subject: OSA Weekly Update - August 22, 2025

Date: Aug 22, 2025 at 12:05:02 PM

To: Tammy Schefers clerk@haventwp.org



# Message from Auditor Blaha

Happy Minnesota State Fair to all who celebrate! The Great Minnesota Get Together is like local government, it offers a place for neighbors to come together as a community. It's also a place of tradition. Yesterday, I did my Opening Day tradition: Greeted Fairgoers, "audited" new fair food and met with fellow crop artists.

This year, one of the pieces I entered was to celebrate the OSA. You can show off your bean-counting prowess by using this **link** to guess the number of beans I used.

# 1. Reminder: Relief Association Reports

The first deadline for fire relief associations to be eligible to receive 2025 fire state aid is on **September 15**, less than a month away. You can check out our <u>reporting compliance</u> <u>dashboard</u> to see a relief association's status in submitting required reports to the OSA and if the relief association has met its requirements with the OSA to qualify for its aid distribution.

# 2. Available: 2025 County TIF Training Video

The OSA recently offered a training webinar "<u>TIF County Administrators Training</u>," which discusses the roles of county staff in tax increment financing (TIF). The recording of this webinar is now posted on our website for anyone who missed them or would like to revisit portions of the training. Additionally, recordings of "<u>An Introduction to TIF</u>" and "<u>TIF Authority Administrators Training</u>," along with other training videos are available on the <u>Training Opportunities</u> page.

If you have any questions, contact us at TIF@osa.state.mn.us.

# 3. Avoiding Pitfalls: Monitor Federal Grant Subrecipients

A governmental entity may pass federal grant funds to another entity, known as the "subrecipient" of the grant funds. A Subrecipient may be another governmental entity or a non-profit organization. In this situation, the original recipient of the funds has a responsibility to monitor the subrecipient to ensure the grant funds are being used for authorized purposes and as required by the grant agreement and applicable regulations. These monitoring activities should occur throughout the year and may take various forms, such as:

- Reviewing financial and performance reports submitted by the subrecipient;
- Performing site visits; and
- Maintaining regular contact with the subrecipient and inquiring about program activities.

The federal Office of Management and Budget (OMB) provides detailed information on subrecipient monitoring. You may access the <u>current OMB Compliance Supplement</u> on the White House website.

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From: Minnesota Office of the State Auditor state.auditor@osa.state.mn.us

Subject: OSA Weekly Update - August 29, 2025

Date: Aug 29, 2025 at 12:05:58 PM

To: Tammy Schefers clerk@haventwp.org





### **Message from Auditor Blaha**

Happy Labor Day! Over this weekend, I'm reminded of President Barack Obama's 2011 Presidential Proclamation. Labor Day represents the power of communities working together for common solutions. I'm grateful to work with so many dedicated individuals across our state, both on my own team and the teams of the entities we serve. No great Minnesota idea becomes real without your work – thank you!



### 1. Released: 2023 Town Finances Report

The annual <u>Town Finances Report</u> a comprehensive report on revenues, expenditures, and debt for Minnesota towns, has been released. This report analyzes town financial operations for the calendar year ended December 31, 2023.

You can view the complete report, which includes an Executive Summary, graphs, and tables, on the **OSA website**.

The 2023 Minnesota town revenues and expenditures have been updated in the <a href="Comparison Tool">Comparison Tool</a>. The Comparison Tool allows you to compare information for the same town for two different years, or to compare one town to another town.

### 2. Deadline: TIF Excess Increment

If a TIF district had excess increment calculated for 2024 it must be used for allowable purposes or returned to the county auditor by **September 30**. For more information, see our article **Excess Increment Deadline Reminder**.

If you have any questions, contact us at <a href="mailto:TIF@osa.state.mn.us">TIF@osa.state.mn.us</a>.

### 3. Released: Pension Training Video

A new training video titled "2025 Legislative Updates for Fire Relief Associations" is available on the OSA website that explains recent law changes impacting fire relief associations, including changes to the defined contribution plan minimum retirement age and defined benefit plan maximum benefit level.

Additional training videos can be found by filtering for Pension on the OSA's Training Videos webpage.

# 4. Avoiding Pitfalls: Schools - Cash Receipts

Schools should periodically consider reviewing some basic internal control procedures for payments received from students, parents, and members of the community. Here are some basics worth following:

- Provide a sequentially pre-numbered receipt to the person turning in the payment. If a teacher/coach collects the payments, the teacher/coach should use a prenumbered receipt book. At a minimum, the teacher/coach should maintain a list of the individual payments received, including whether the payments were cash or checks (and the check number). The teacher/coach should be provided with a receipt when the funds are turned into the main office for deposit.
- Indicate on the receipts whether the payment was in the form of cash or check and, for checks, indicate the check number.

- Use pre-numbered tickets for events and document the starting and ending numbers of the tickets sold at the event. Have someone other than the ticket seller reconcile the number of tickets sold to the money collected.
- Segregate duties so the person preparing the deposit slip is not the person
  collecting the money. Have someone other than the person preparing the deposit
  slip verify that the description of the deposit on the supporting receipts agrees with
  the funds actually being deposited (e.g., cash vs. check amounts on the receipts
  match the deposit; the receipted checks are the checks actually being deposited).

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From: Minnesota Office of the State Auditor state.auditor@osa.state.mn.us

Subject: OSA Weekly Update - September 5, 2025

Date: Sep 8, 2025 at 9:47:40 AM

To: Tammy Schefers clerk@haventwp.org





## Message from Auditor Blaha

Announcement: After thoughtful consideration, I won't seek reelection for a third term in 2026.

Serving as Minnesota's 19th State Auditor has been the greatest honor of my life. Minnesotans deserve transparency with their tax dollars, and I'm proud that my administration has actively fought against waste, fraud and abuse.

I'm equally honored that we were able to support local government leaders and protect

their freedom to make decisions within their own communities. By rebuilding relationships across the state, modernizing audit technology, public tools and communication, we've empowered leaders with the information they need to make fact-based decisions.

But we're not done yet. Over the next year, I'll continue my commitment to protect local government decision making and provide resources to the workforce shortages we all face.

# 1. Pension: Training Opportunity

Members of our Pension Division will be teaching a training course for fire relief

association trustees at the annual Minnesota State Fire Department Association (MSFDA) conference in Breezy Point. Our session will be held from on Friday, September 19 from 1 – 5 p.m.. If you're attending the MSFDA conference, stop by to meet members of our Pension team!

### 2. Avoiding Pitfalls: Collateralization

State law requires public entities to maintain proper collateralization of their accounts. Collateral provides protection for public funds in the event of a bank failure.

All public funds on deposit in a bank or credit union must be protected by deposit insurance, corporate surety bond or pledged collateral. Most financial institutions choose to pledge collateral for amounts not covered by federal deposit insurance. If the institution should fail, the governmental entity can then take the pledged securities to make up for any loss to its deposited funds.

For more information about the required collateral for public funds, see our <u>Statement of Position entitled Deposits of Public Funds</u>.

The risk addressed by pledged collateral is identified by the Government Accounting Standards Board (GASB) as "custodial credit risk". Information on how custodial credit risk can be addressed in your investment policy is provided in our <u>Statement of Position</u>, <u>Custodial Credit Risk: Investment Policy Considerations</u>.

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Office of the County Recorder Sherburne County, MN Doc. No. 986720

Certified, filed, and or recorded on August 14, 2025 1:07 PM

Michelle Ashe, County Recorder By BMB Deputy Fees: \$0.00



986720

# AMENDMENT TO THE SHERBURNE COUNTY SUBDIVISION ORDINANCE NO 003 ORD NO 286

The Sherburne County Board of Commissioners adopted ORD NO  $\underline{286}$  by amending the Sherburne County Subdivision Ordinance as it relates to the Final Platting Process including amendments to:

Sec 10, Subd 6 to clarify language and modify final plat process for Standard Plats

This provision was passed by the Sherburne County Board of Commissioners on the <u>22nd</u> day of <u>July</u>, 2025. A complete copy of this Subdivision Ordinance Amendment is available for viewing at the Sherburne County Planning and Zoning Office, 13880 Business Center Drive, Elk River, Mn, and is duly filed with the Sherburne County Auditor upon the publication of its enactment.

Signed	
Dignec	٠.

(Gary Gray), County Board Chairperson

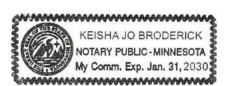
Attested by:

(Bruce Messelt), County Administrator

Filed

AUG 1 3 2025

Sherburne County Auditor-Treasurer



The foregoing instrument was acknowledged before me

\_\_\_\_\_\_

Signature of person taking acknowledgement

Drafted by the Sherburne County
Planning and Zoning Department
Sherburne County Government Center, Elk River, MN

<u>Underline</u> = language proposed with recommendations from Planning Advisory Commission. <u>Strikethrough</u> language to be removed

### **Subdivision 6:** Final Plat Process

- A. A subdivider may file an application for final plat approval within the time required following preliminary plat approval. The application shall include the following:
  - 1. A completed application form signed by all property owners and the applicant, if different than the owner(s).
  - 2. The fees established by the County Board for Final Standard Plat applications.
  - An updated (within thirty (30) days of the date of application) title commitment or title
    opinion for all the property being platted. For Torrens property, the application must include
    a current Certificate of Title for all of the property being platted.
  - 4. Six Two (26) full size copies of the Final Plat, one (1) 11" x 17" copy, and one copy of the plat in a PDF format.
  - 5. SixTwo (26) full-sized copies of the Grading and Drainage Plans, one (1) 11'x17' copies of Grading and Drainage Plans one copy of the plans in a PDF format
  - 6. A certificate of compliance for any sewage treatment system on the property. No certificate of compliance dated more than ten (10) years prior to the date of application will be accepted. If any septic system on the property is not compliant, the system must be upgraded or abandoned according the Zoning Ordinance and applicable State regulations and a new certificate of compliance submitted before any Standard Plat application may be considered complete
  - 7. A stormwater management plan for the proposed development, along with written comments from the Town Board, as the drainage authority, relating to the plan. The stormwater management plan must include: (1) the existing and proposed drainage, including calculations; (2) a grading plan; and (3) a stormwater pollution prevention plan.
  - 8. The County Surveyor and Public Works Department must approve the final plat as in conformance with Sherburne County Public Works Platting Manual and Minnesota Statutes chapter 505.
  - Prior to consideration by Planning Advisory Commission or County Board, the applicant
    must submit documentation of approval by the Town Board in the Township where the plat
    is located pursuant to MN Statute Section 505.09 Subpart 1. A.
- B. The application may request final plat approval for all of the development or may be limited to

only that portion of the preliminary plat that the subdivider intends to develop at the time. In the case of a phased development, the County Board may grant an extension to the deadline to record the final plat, provided that the subdivider must request the extension at the same time that the first phase is submitted for final plat approval. If an extension is granted by the County Board, the final plat for all subsequent phases shall be subject to the official controls in effect at the time of final plat approval for such subsequent phases.

- C. The final plat shall have incorporated all changes or modifications recommended by the Planning Commission, the County Surveyor and, if applicable, the County Engineer and/or the Commissioner of Transportation. In all other respects, the final plat shall conform to the preliminary plat.
- D. The final plat shall include the content and be in the form required by the Sherburne County Public Works Platting Manual and Minnesota Statutes chapter 505.
- E. The final plat shall be considered a complete application when the Zoning Administrator determines that the requirements of this Ordinance have been met and the County Engineer and County Surveyor have determined that the plat conforms to the requirements of the Sherburne County Public Works Platting Manual and Minnesota Statutes chapter 505. The Zoning Administrator may forward a complete final plat application to the County Board without first presenting the final plat application to the Planning Advisory Commission if the final plat is identical to the preliminary plat approved by the Planning Advisory Commission.
- F. If the final plat is approved by the County Board, the subdivider shall obtain all necessary signatures and record the plat with the Sherburne County Recorder within one year of the date of approval. The subdivider shall provide the County Attorney with an updated title commitment, title opinion or certificate of title, as required by the Sherburne County Public Works Platting Manual, prior to obtaining the County Attorney's signature. In addition to the requirement to record the plat within one year after approval, the plat must be recorded within fifteen (15) calendar days after obtaining the County Attorney's signature. If a final plat is not recorded within one year following County Board approval and/or fifteen days after the County Attorney's signature, the plat shall become null and void.

# **SECTION 10 - STANDARD PLAT**

Subdivision 1:	Purpose	1
	Restrictions	
	Pre-application Meeting	
	Plat Submission Information	
Subdivision 5:	Preliminary Plat Approval Procedure	4
Subdivision 6:	Final Plat Process	6

### Subdivision 1: Purpose

Standard Plats allow subdivision of land into lots smaller than the minimum metes and bounds size in the zoning district, and contain all elements and requirements set forth in all official controls adopted pursuant to Minnesota Statutes chapters 394 and 505.

### **Subdivision 2:** Restrictions

A Standard Plat is required to subdivide land where the proposed subdivision does not qualify for an Administrative Subdivision, Simple Plat or Registered Land Survey.

# Subdivision 3: Pre-application Meeting

- A. A pre-application meeting with the Planning and Zoning Department is required for all Standard Plats. The purpose of the pre-application meeting is to review the proposed Standard Plat and all applicable laws, ordinances, policies and procedures relating to the Standard Plat process. Prior to the pre-application meeting, the applicant shall provide the Department with a Sketch Plan, which shall include the following information:
  - 1. The proposed plat overlaid on an aerial photo drawn to scale with dimension of proposed lots and roads.
  - 2. Total acreage of the property to be platted;
  - 3. Existing property lines;

- Proposed lot lines;
- Existing public and private roads and easements on the property, including length of road and the existing right-of-way of any public road abutting the property to be platted;
- 6. Existing buildings and other impervious surface areas;
- 7. Existing utilities (overhead and underground);
- 8. Existing road spacing and driveway spacing on County roads.
- B. Additional items to be discussed at the pre-application meeting include without limitation: existing vegetation on the property, soil types, any solid waste accumulation, potential wetland impacts, floodplain and shoreland regulations (if applicable), soils, water table and slope information; and potential stormwater management issues, private roads and easements, driveway access locations, road connections and property title.

### Subdivision 4: Plat Submission Information

- A. The owner and subdivider shall file an application for Standard Plat approval with the Planning and Zoning Department that includes the following:
  - A completed application form signed by all property owners and the applicant, if different than the owner(s).
  - 2. The fees established by the County Board for Standard Plat applications.
  - 3. A title commitment or title opinion for all of the property being platted. For Torrens property, the application must include a current Certificate of Title for all of the property being platted. The applicant shall also provide a description of any known encumbrances on the property not described on the title commitment, title opinion or Certificate of Title.
  - 4. Certificate of compliance for any sewage treatment system on the property. No certificate of compliance dated more than ten (10) years prior to the date of application will be accepted. If any septic system on the property is not compliant, the system must be upgraded or abandoned according to the Zoning Ordinance and applicable State regulations and a new certificate of compliance submitted before any Standard Plat application may be considered complete.
  - 5. A soil report and soil boring logs by a Minnesota Licensed Soil Scientist.
  - 6. A stormwater management plan for the proposed development, along with written comments from the Town Board, as the drainage authority, relating to the plan. The stormwater management plan must include: (1) the existing and proposed drainage, including calculations; (2) a grading plan; and (3) a stormwater pollution prevention plan.

- 7. A Routine Level 2 Wetland Delineation for any wetlands on the property, approved by the Local Governing Unit and Technical Evaluation Panel.
- 8. Six (6) paper copies of the preliminary plat and one (1) 11" x 17" copy, and one copy in PDF format.
- 9. Documentation that the preliminary plat has been approved by the Township Board of Supervisors in the Township where the plat is located.
- 10. All other information deemed necessary by the Zoning Administrator to provide an adequate basis to make a decision on the plat.

### B. The plat drawing must include the following:

### 1. Existing Features:

- a) Existing property lines and all property lines extending 100 feet from the exterior boundaries of the property to be platted, along with the names of adjacent property owners and the current use of those properties.
- b) Existing public and private roads, including length of road frontage and the existing right-of-way of any public road abutting the property to be platted.
- c) Existing public access to any public road.
- d) Existing buildings and any other impervious surface.
- e) Location of any existing or abandoned wells, sewage treatment systems or areas with solid waste accumulation.
- f) Location of any lakes, waterways or other public waters on or adjacent to the property.
- g) Delineated wetland boundaries for all wetlands located on the property.
- h) Elevation and boundary line of the Ordinary High-Water Level.
- The 100-year flood elevation, Regulatory Flood Protection Elevation, if available and floodway, flood fringe and flood plain district boundaries, if applicable.
- j) Shoreland district boundary, if any part of the plat is in shoreland areas.
- k) Topography at two (2) foot contours extending 200 feet beyond the property boundaries.
- Surface water drainage patterns.
- m) Soil survey identification numbers and boundaries overlaid on the preliminary drawing.

### 2. Proposed Features:

- a) Lot and Block layout and numbering.
- b) Lot area and dimensions.
- c) Setback lines.
- d) Proposed streets, including width, length, names and other requirements of this Ordinance, the Zoning Ordinance and other applicable official controls.
- e) Proposed drainage and utility easements, and other easements or controls necessary for drainage, slope protection, flood protection, protection of wetlands and waterbodies, and stormwater retention areas.
- f) Delineated wetland boundaries.

g) Proposed driveway access.

h) Delineated buildable lot area, showing soil types and boring location each lot, certified by a Licensed Minnesota Soil Scientist.

i) For residential plats, the building pad site and two (2) sites suitable for individual sewer treatment systems, based on the topography and soil borings taken at those sites.

- j) For commercial or industrial plats, the building pad site, two (2) sites suitable for individual sewer treatment systems, based on the topography and soil borings taken at those sites and the location of areas for parking, landscaping and screening meeting the requirements of the Zoning Ordinance.
- k) Lowest floor elevations (LFE) and lowest opening elevations (LOE) shown on every
- 1) Areas designated for other uses (outlots, parks, trails, etc.)
- 3. General Information:
  - a) Proposed name of the plat.
  - b) Total acreage of the property to be platted.
  - c) Existing Zoning.
  - d) Scale, date and North orientation.
  - e) Graphic scale of not less than 1 inch to 100 feet.
  - f) A Boundary Survey and legal description, pursuant to the Sherburne County Public Works Platting Manual.
  - g) A tree and woodland preservation plan, as may be required by section 11 of this Ordinance.
- C. The application will be considered complete only when all of the required information and documentation has been submitted. Incomplete applications shall be considered withdrawn and shall be invalid one year after initial submittal.

# Subdivision 5: Preliminary Plat Approval Procedure

- A. A preliminary plat is a plan for how the property will be developed. The preliminary plat approval stage is the point in the process where all information relating to the proposed development is submitted by the subdivider for review and consideration by the Planning and Zoning Department, the Planning Advisory Commission and the public. The information submitted in the application must address both the existing conditions on the property and the changes that will occur during and after the development. Additional information may be required during the approval process in order to provide an adequate basis for making a decision, and changes may be required by the Planning and Zoning Department, the Planning Advisory Commission and the County Board.
- B. A Preliminary Standard Plat application will be reviewed and considered according to the following procedure:
  - 1. Planning and Zoning Department staff will review submitted applications for completeness pursuant to Minnesota Statutes section 15.99. When the preliminary plat application is

deemed complete, Department staff will set a public hearing on the plat. Public notice shall be provided in accordance with Minnesota Statutes chapter 394.

- 2. The preliminary plat shall be submitted to the County Surveyor and Engineer for written comments and recommendations. When a preliminary plat includes land abutting an existing or established trunk highway, the preliminary plat shall be submitted to the Commissioner of Transportation for written comments and recommendations.
- 3. The Planning Advisory Commission will conduct a public hearing before final consideration of the preliminary plat. Following the public hearing, the Planning Advisory Commission shall submit its findings and recommendations to the County Board. The recommendation may be conditional, and may recommend approval or denial of the preliminary plat.
- 4. Approval of the preliminary plat by the County Board does not constitute acceptance of the subdivision, but allows the applicant to proceed with the final plat.
- 5. In the event an approved preliminary plat is not submitted to the County Board for final plat approval within one (1) year of preliminary plat approval, the preliminary plat will become null and void. One administrative extension of up to one (1) year may be granted by the Zoning Administrator upon written request of the subdivider, provided that there is reasonable cause for the request and that the request is made prior to the original one-year deadline. For phased developments, additional extensions may be granted by the County Board as provided in Subdivision 6.2.
- C. A completed Standard Plat application will be reviewed and considered in accordance with the following criteria, in addition to other considerations that may be applicable to an individual plat application:
  - 1. The preliminary plat shall conform to all applicable Ordinances and state and federal laws.
  - 2. The preliminary plat shall be consistent with the Sherburne County Comprehensive Plan.
  - 3. No plat shall be approved if it does not conform to any applicable floodplain overlay district standards contained in the Sherburne County Zoning Ordinance.
  - No plat shall be approved where a variance would be required to use the lot(s) for their intended use.
  - 5. In addition to meeting the buildable lot area requirements of the applicable zoning district, each lot shall have sufficient buildable area to accommodate the construction of structures and driveways, a sewage treatment system, two (2) soil treatment and dispersal areas to support the system, and a water supply system, while providing for all required setbacks. Areas that are in floodways, wetlands, rights-of-way, bluffs or steep slopes, or that have soils that are unsuitable for individual sewage treatment systems shall not be included in

calculating the buildable area of a lot.

- 6. No plat shall be approved that does not contain adequate provisions for stormwater runoff.
- 7. The County shall consider whether the plat as proposed adequately protects the health, safety and welfare of County residents by providing for a safe drinking water supply, adequate sewage treatment capacity, adequate stormwater runoff and erosion control, safe road access, proper road alignment and capacity and proper setbacks and buffering from conflicting land uses.

### Subdivision 6: Final Plat Process

- A. A subdivider may file an application for final plat approval within the time required following preliminary plat approval. The application shall include the following:
  - 1. A completed application form signed by all property owners and the applicant, if different than the owner(s).
  - 2. The fees established by the County Board for Final Standard Plat applications.
  - 3. An updated (within thirty (30) days of the date of application) title commitment or title opinion for all the property being platted. For Torrens property, the application must include a current Certificate of Title for all of the property being platted.
  - 4. Two (2) full size copies of the Final Plat, one (1) 11" x 17" copy, and one copy of the plat in a PDF format.
  - 5. Two (2) full-sized copies of the Grading and Drainage Plans, one (1) 11'x17' copies of Grading and Drainage Plans one copy of the plans in a PDF format
  - 6. A certificate of compliance for any sewage treatment system on the property. No certificate of compliance dated more than ten (10) years prior to the date of application will be accepted. If any septic system on the property is not compliant, the system must be upgraded or abandoned according the Zoning Ordinance and applicable State regulations and a new certificate of compliance submitted before any Standard Plat application may be considered complete.
  - 7. A stormwater management plan for the proposed development, along with written comments from the Town Board, as the drainage authority, relating to the plan. The stormwater management plan must include: (1) the existing and proposed drainage, including calculations; (2) a grading plan; and (3) a stormwater pollution prevention plan.
  - 8. The County Surveyor and Public Works Department must approve the final plat as in conformance with Sherburne County Public Works Platting Manual and Minnesota Statutes chapter 505.

- 9. Prior to consideration by Planning Advisory Commission or County Board, the applicant must submit documentation of approval by the Town Board in the Township where the plat is located pursuant to MN Statute Section 505.09 Subpart 1. A.
- B. The application may request final plat approval for all of the development or may be limited to only that portion of the preliminary plat that the subdivider intends to develop at the time. In the case of a phased development, the County Board may grant an extension to the deadline to record the final plat, provided that the subdivider must request the extension at the same time that the first phase is submitted for final plat approval. If an extension is granted by the County Board, the final plat for all subsequent phases shall be subject to the official controls in effect at the time of final plat approval for such subsequent phases.
- C. The final plat shall have incorporated all changes or modifications recommended by the Planning Commission, the County Surveyor and, if applicable, the County Engineer and/or the Commissioner of Transportation. In all other respects, the final plat shall conform to the preliminary plat.
- D. The final plat shall include the content and be in the form required by the Sherburne County Public Works Platting Manual and Minnesota Statutes chapter 505.
- E. The final plat shall be considered a complete application when the Zoning Administrator determines that the requirements of this Ordinance have been met and the County Engineer and County Surveyor have determined that the plat conforms to the requirements of the Sherburne County Public Works Platting Manual and Minnesota Statutes chapter 505. The Zoning Administrator may forward a complete final plat application to the County Board without first presenting the final plat application to the Planning Advisory Commission if the final plat is identical to the preliminary plat approved by the Planning Advisory Commission.
- F. If the final plat is approved by the County Board, the subdivider shall obtain all necessary signatures and record the plat with the Sherburne County Recorder within one year of the date of approval. The subdivider shall provide the County Attorney with an updated title commitment, title opinion or certificate of title, as required by the Sherburne County Public Works Platting Manual, prior to obtaining the County Attorney's signature. In addition to the requirement to record the plat within one year after approval, the plat must be recorded within fifteen (15) calendar days after obtaining the County Attorney's signature. If a final plat is not recorded within one year following County Board approval and/or fifteen days after the County Attorney's signature, the plat shall become null and void.

# AFFIDAVIT OF PUBLICATION

STATE OF MINNESOTA COUNTY OF SHERBURNE

I do solemly swear that the notice, as per the proof, was published in the edition of the

### Star News

with the known office of issue being located in the county of:

### SHERBURNE

with additional circulation in the counties of: WRIGHT

and has full knowledge of the facts stated below:

- (A) The newspaper has complied with all of the requirements constituting qualification as a qualified newspaper as provided by Minn. Stat. §331A.02.
- (B) This Public Notice was printed and published in said newspaper(s) once each week, for 1 successive week(s); the first insertion being on 06/14/2025 and the last insertion being on 06/14/2025.

MORTGAGE FORECLOSURE NOTICES
Pursuant to Minnesota Stat. §580.033
relating to the publication of mortgage
foreclosure notices: The newspaper complies
with the conditions described in §580.033,
subd. 1, clause (1) or (2). If the newspaper's
known office of issue is located in a county
adjoining the county where the mortgaged
premises or some part of the mortgaged
premises described in the notice are located,
a substantial portion of the newspaper's
circulation is in the latter county.

By: Designated Agent

Subscribed and sworn to or affirmed before me on 06/14/2025

Paulese Machersen Notary Public



Rate Information:

(1) Lowest classified rate paid by commercial users for comparable space:

\$999.99 per column inch

Ad ID 1476125

### SHERBURNE COUNTY NOTICE OF PUBLIC HEARING

The Sherburne County PLAN-NING ADVISORY COMMISSION will meet at 6:00 P.M. June 26, 2025 at the Sherburne County Government Center, 13880 Business Center Drive, Elk River, Minnesota to hold a public hearing for all unincorporated areas of Sherburne County in which the County has zoning and land use authority, to consider the following application(s) and other planning and zoning related topics.

Scott Ruiter: Request Conditional Use Permit for Personal Storage Structure. Property Address: 10624 56th St SE, Clear Lake. PID #40-00416-0408. Legal Desc: Lot 4, Blk 4, Cedar Point. Sec 27, Twp 35, Rge 29, Palmer Township. .15 acres in the Agricultural District and within the Recreational Development Shoreland District of Rush Lake & Briggs Lake.

Cody Riedland: (Property Owner Lucas & Jennifer Olson): Request Residential Preliminary and final Simple Plat of "WHISKEY FLATS" consisting of (1) lot. Property Address: 31806 147th St NW, Princeton. PID #15-00451-0205. Legal Desc: Lot 1, Blk 2, Brookside Meadows Fourth Addition. Sec 1, Twp 35, Rge 27, Blue Hill Township. 6.34 acres in the General Rural District and within the Protected Non-Classified Watercourses Shoreland District of Battle Brook.

John Alfords (Property Owner John & Jacqueline Alfords): Request to Rezone from General Rural to Shoreland Residential District. Property Address: 15757 228<sup>th</sup> Ave NW, Elk River. PID #10-00102-1203. Legal Desc: Government Lot 2, Section 2, Township 33 (full legal on file). Sec 2, Twp 33, Rge 27, Big Lake Township. 25.05 acres in the General Rural District and within the Recreational Development Shoreland District of Birch Lake.

John Alfords (Property Owner John & Jacqueline Alfords):
Request Residential Preliminary and final Simple Plat of "ALFORDS ADDITION" consisting of (1) lot. Property Address: 15757 228th Ave NW, Elk River. PID #10-00102-1203. Legal Desc: Government Lot 2, Section 2, Township 33 (full legal on file). Sec 2, Twp 33, Rge 27, Big Lake Township. 25.05 acres in the General Rural District and within the Recreational Development Shoreland District of Birch Lake.

Amendment to the Sherburne County Subdivision Ordinance: Request for an Amendment to the Sherburne County Subdivision Ordinance to clarify language and modify Final Plat Process for Standard Plats. Subdivision Ordinance proposed amendment: Section 10, Subd 6, Final Plat Process.

A complete copy of the Ordinance Amendment proposal is available for public viewing in the Planning and Zoning Department at the Sherburne County Gov-

ernment Center, 13880 Business Center Drive, Elk River, MN Monday through Friday between office hours 8:00am to 4:30pm.

The hearing of these requests is not limited to those receiving copies of this notice, and if you know of any neighbor or affected property owner who for any reason has not received a copy, it would be appreciated if you would inform them of this hearing. Recommendations made by the Sherburne County Planning Advisory Board may be subject to further action by the Township of Big Lake, and the Sherburne County Board of Commissioners.

Recommendations that are forwarded to the County Board from this public hearing are anticipated to be heard at a County Board of Commissioners Meeting, on July 22, 2025 in the County Board Room located at the Sherburne County Government Center.

Lynn Waytashek, Zoning Administrator

> Published in the Star News June 14, 2025 1476125

# AFFIDAVIT OF PUBLICATION

STATE OF MINNESOTA COUNTY OF SHERBURNE

I do solemly swear that the notice, as per the proof, was published in the edition of the

### Star News

with the known office of issue being located in the county of:

### SHERBURNE

with additional circulation in the counties of: WRIGHT

and has full knowledge of the facts stated below:

- (A) The newspaper has complied with all of the requirements constituting qualification as a qualified newspaper as provided by Minn. Stat. §331A.02.
- (B) This Public Notice was printed and published in said newspaper(s) once each week, for 1 successive week(s); the first insertion being on 08/09/2025 and the last insertion being on 08/09/2025.

MORTGAGE FORECLOSURE NOTICES

Pursuant to Minnesota Stat. §580.033 relating to the publication of mortgage foreclosure notices: The newspaper complies with the conditions described in §580.033, subd. 1, clause (1) or (2). If the newspaper's known office of issue is located in a county adjoining the county where the mortgaged premises or some part of the mortgaged premises described in the notice are located, a substantial portion of the newspaper's circulation is in the latter county.

Designated Agent

Subscribed and sworn to or affirmed before me on 08/09/2025

Daulase MM acherson Notary Public



SHERBURNE COUNTY
AMENDMENT TO
THE SHERBURNE
COUNTY SUBDIVISION
ORDINANCE NO 003
ORD NO 286

The Sherburne County Board of Commissioners adopted ORD NO 286 by amending the Sherburne County Subdivision Ordinance as it relates to the Final Platting Process including amendments to:

Sec 10, Subd 6 to clarify language and modify final plat process for Standard Plats

This provision was passed by the Sherburne County Board of Commissioners on the 22nd day of July, 2025. A complete copy of this Subdivision Ordinance Amendment is available for viewing at the Sherburne County Planning and Zoning Office, 13880 Business Center Drive, Elk River, Mn, and is duly filed with the Sherburne County Auditor upon the publication of its enactment.

Signed: Gary Gray, County Board Chairperson Attested by: Bruce Messelt, County Administrator

> Published in the Star News August 9, 2025 1484698

Rate Information:

(1) Lowest classified rate paid by commercial users for comparable space:

\$999.99 per column inch

Ad ID 1484698