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www.cityofmequonwi.gov

Public Works Department

Joint Mequon-Thiensville Bike and Pedestrian Way Commission
Thursday, July 10, 2025
9:00 AM
North Conference Room

Agenda

1. Call to Order, Roll Call

2. Approval of Meeting Minutes

Action requested: review and approve

a. June 12, 2025 Minutes

3. Resident Communications

Citizens wishing to address the Commission on any matter not on the agenda may do so at this time. If you desire to be heard on agenda items, you may be heard when that item is considered on the agenda. The time limitation is FIVE minutes. Please state your name and address.

4. Discussion/Action Items

a. M-T Bike and Pedestrian Way Master Plan Project Prioritization Discussion

b. WisDOT STH181 from County Line to Mequon Road Pavement Marking

5. Other Business

6. Adjourn

Dated: July 2, 2025

/s/ Kenneth Maciolek, Chair

Notice is hereby given that a majority of other governmental bodies may be in attendance at this meeting to gather information about a subject over which they have decision making responsibility, although they will not take any formal action relative thereto at this meeting. Persons with disabilities requiring accommodations for attendance at this meeting should contact the City Clerk's Office at 262-236-2914 twenty-four (24) hours in advance of the meeting.

Any questions regarding this agenda may be directed to the Engineering Office at 262-236-2934, Monday through Friday, 8:00 am – 4:30 pm.



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Public Works Department

Joint Mequon-Thiensville Bike and Pedestrian Way Commission
Thursday, June 12, 2025
9:00 AM
North Conference Room

Minutes

1. Call to Order, Roll Call

Present:

Chair Kenneth Maciolek
 Vice Chair Jim Doornek
 Alderman Gregg Bach
 Commissioner Ron Heinritz
 Commissioner Rob Holyoke

Absent:

Commissioner John Liegeois
 Commissioner Kristin Wade

Also in attendance were Assistant City Engineer McCraw and Engineering Administrative Assistant Redeker.

2. Approval of Meeting Minutes

a. May 8, 2025 Minutes

RESULT: **Approved [Unanimous]**

MOVED BY: Holyoke

SECONDED BY: Commissioner Heinritz

AYES:	Maciolek, Doornek, Bach, Heinritz, Holyoke
ABSENT:	Liegeois, Wade

3. Resident Communications

Chair Maciolek stated there were no residents in attendance.

Attachment: 06-12-2025_Minutes (10474 : June 12, 2025 Minutes)

4. Discussion/Action Items

a. WisDOT Comments for STH181 from County Line to Mequon Road

Commissioner Holyoke made a motion to recommend to City Council to contact the Wisconsin Department of Transportation in order to make them aware of the recently adopted Master Plan in hopes they consider it during future projects in Mequon and Thiensville. The motion was seconded by Commissioner Doornek and passed unanimously.

RESULT: Approved [Unanimous]

MOVED BY: Holyoke

SECONDED BY: Commissioner Doornek

AYES:	Maciolek, Doornek, Bach, Heinritz, Holyoke
ABSENT:	Liegeois, Wade

b. M-T Bike and Pedestrian Way Master Plan Project Prioritization Discussion

Commissioner Heinritz and Assistant City Engineer McCraw shared the results of the Public Involvement Meeting they attended the previous evening regarding the upcoming road project on Lake Shore Drive and Mequon Rd. Commissioners also continued prioritizing Master Plan projects.

5. Other Business

Commissioners confirmed the next meeting will be held as scheduled on July 10th, 2025.

6. Adjourn

a. Motion to Adjourn at 10:31 AM

RESULT: Approved by Voice Acclamation [Unanimous]

MOVED BY: Commissioner Heinritz

SECONDED BY: Alderman Bach

AYES:	Maciolek, Doornek, Bach, Heinritz, Holyoke
ABSENT:	Liegeois, Wade

Respectfully Submitted,

Kaye Redeker



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Office of Engineering

TO: Joint Mequon-Thiensville Bike and Pedestrian Way Commission
FROM: Cole McCraw, Assistant City Engineer
DATE: July 10, 2025
SUBJECT: M-T Bike and Pedestrian Way Master Plan Project Prioritization Discussion

Background

The Bikeway Master Plan appeared on the Public Works and Common Council agenda for adoption on March 11th, 2025. Given the plan was adopted as recommended, the plan development and approval for the master plan is now completed. The M-T Bikeway Commission can now consider using the plan to prioritize recommendations for the City and Village.

Prioritization discussions first began at the April meeting.

The report can be found on the City website below:

Final Draft Report: <https://www.cityofmequonwi.gov/media/24566>

Final Draft Report Appendices: <https://www.cityofmequonwi.gov/media/24571>

Analysis

Per City Ordinance, the defined purpose of the Joint M-T Bike and Pedestrian Way Commission is as follows:

The commission shall advise the common council and the Thiensville Village Board regarding the creation of, revisions to and implementation of a city- and village-wide master plan for bike and pedestrian ways and trails accessible to bicyclists, pedestrians and participants in other silent sports.

Also, in the City Ordinance and relating to the master plan, the commission has the following powers and duties:

- (1) Advise the common council and Thiensville Village Board regarding creation, revisions to and implementation of a city- and village-wide master plan for bike and pedestrian ways and ancillary services throughout the city and the Village of Thiensville.*
- (2) Set priorities for new bike and pedestrian ways or enhancements of existing routes in the master plan.*
- (3) Identify and prioritize critical gaps in bike and pedestrian ways.*

Staff recommends creating a separate recommendation list for each community.

The Commission discussed the following tentative schedule for prioritization.

Work Plan

- ~~April 10 – Discuss projects and priority ranking.~~
- Summer 2025
 - Discuss projects and priority ranking.
 - ~~2024 Annual Report of Commission activities~~
 - Discuss and create overall priority list and vote to approve the Mequon priority list and the Thiensville priority list.
- Other 2025 items:
 - Discussion on steps to take to reestablish the Ozaukee Interurban Trail Advisory Committee

After the priority list is created, the Commission may review and revise the list annually, or on a case-by-case basis.

The list of corridors recommended for improvements is found attached to this memo. Commissioner Doornek provided an updated scoring sheet with additional information which can be discussed and considered.

Fiscal Impact

This item is for information and discussion only and does not carry a fiscal impact.

Approximate costs for some common improvements can be found in the GRAEF study.

Recommendation

This item is for discussion only and no formal action is recommended. Staff recommends that the Commission discuss prioritization of project areas based on the decided criteria.

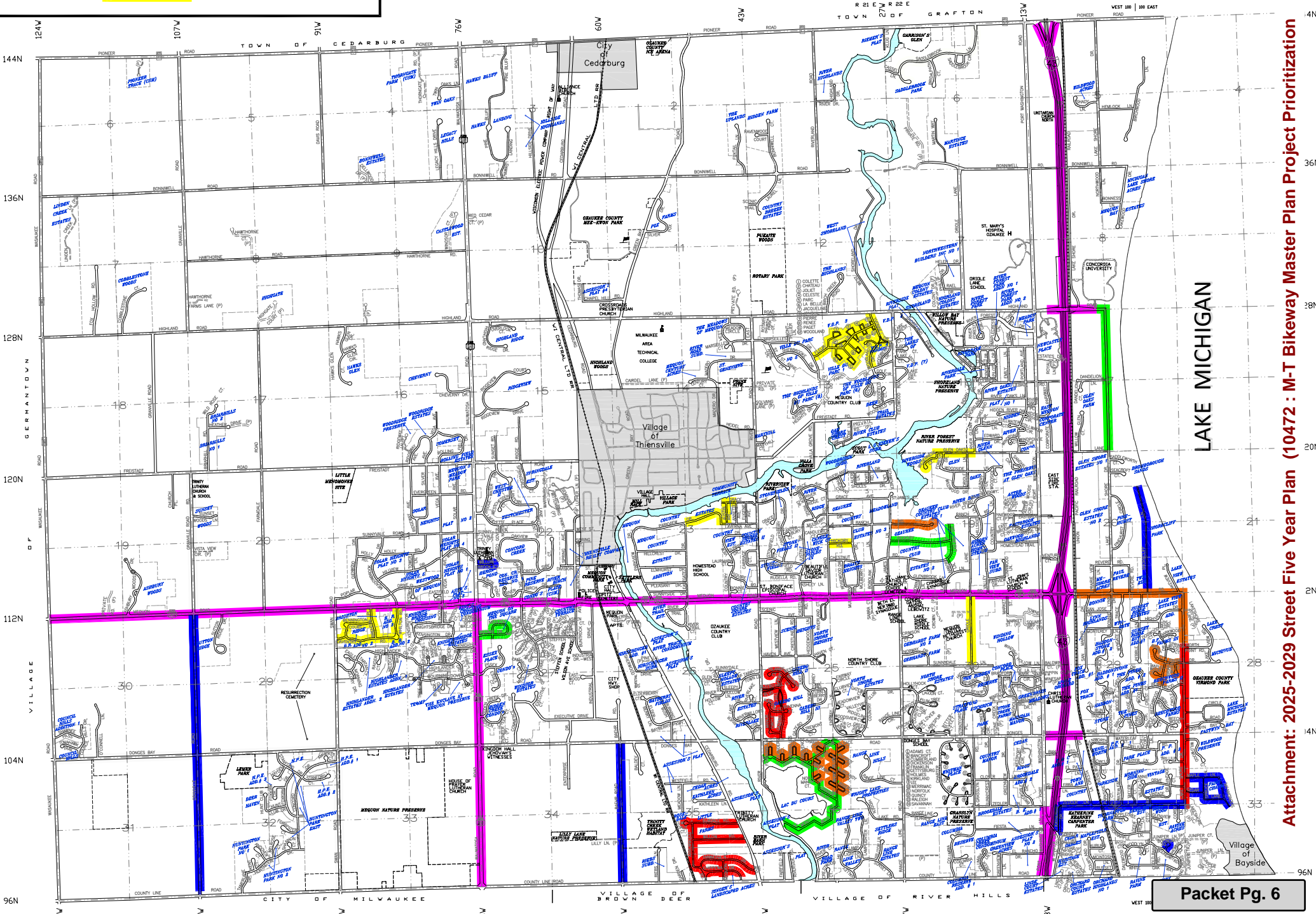
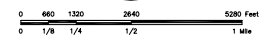
Attachments:

- 2025-2029 Street Five Year Plan (PDF)
- Street Corridor List (PDF)
- MT master plan corridors -facility keys (PDF)
- MT master plan corridors - notes (PDF)
- MT master plan corridors (PDF)

2025		WisDOT 
2026		
2027		
2028		
2029		

CITY OF MEQUON

5 YEAR PLAN 2025-2029



Attachment: 2025-2029 Street Five Year Plan (10472 : M-T Bikeway Master Plan Project Prioritization

North South Corridors

<u>Corridor</u>
Swan Road
Wauwatosa Rd / STH 181
Buntrock Avenue
Cedarburg Road / STH 57
Green Bay Road
River Road
Range Line Road
Port Washington Road / CTH W
Lake Shore Drive (with Zedler Lane)
Ozaukee Interurban Trail (OIT)

Attachment: Street Corridor List (10472 : M-T Bikeway Master Plan Project Prioritization Discussion)

East West Corridors

<u>Corridor</u>
Highland Road
Freistadt Road
Riverview Drive
Division Street
West Mequon Neighborhoods Bicycle Boulevard
Mequon Road
Mequon Road
Donges Bay Road
County Line Road

Spot Improvements

<u>Location</u>
OIT WE Energies Facility Safety Improvements
OIT Donges Bay Road Crossing
River Road Bridge
Donges Bay Road Bridge
Mequon Road Bridge
Mequon Road / Cedarburg Road Intersection Crosswalks
Mourning Dove Lane

Abbreviation	Description
PS	Paved Shoulder
BL	Bike lane
BBL	Buffered Bike Lane
SW	Sidewalk
SUP	Shared use path
BB	Bike Boulevard
EPS	Expanded Paved Shoulder

Notes
(1)- Bonniwell, Pioneer, Granville, Wasaukee, & Farmdale roads were ranked on plan but not included.
(2) Port to lakeshore volume drops to 2000
(3) This segment provides an alternative to improving the segment of Mequon rd. from Swan to Cedarburg rd. The Division street segment should be prioritized regardless of which alternative is selected. The segment of Cedarburg rd from Mequon to Division is also a consideration. See page 47 of report.
(4) This segment provides an alternative to improving the segment of Freistadt rd. from River rd to the OIT trail.
(5) Segment needs additional segmentation
(6) Map depicts OIT to Range line as recommended route - No bridge on County line.
(7) Public survey ranking was by corridor name only, not segmented.
(8) Willowbrook east of Wauwatosa planned for 2025
(9) Evaluated at 4/10/25 commission meeting for potential high prioritization
(10) The scope of this item requires further clarification to include RR crossing maze hazard.
(11) Graef recommends designated signage on all segments
(12) From Mequon 5 yr. road plan
(13) Requires coordination with OIT advisory committee & other communities.
(14) signage improvements needed

Community	Direction/Spot improvement	Corridor (See note 1)	Segment	Identified as high use corridor	Recommended bike route (note 11)	Safety Bike Crash inc. #	Future road work planned?	Public survey rank (note 7)	Speed (mph)	Traffic volume (vpd)	Existing Facility	Recommended facility (GRAEF)	Existing facility meets rec.	Feasibility	Cost	Overall Ranking		
GRAEF REPORT PAGE#				31	53	22	note 12	10	43	43	17	49	na					
M	E-W	County Line Road	Wasaukee Rd to Cedarburg rd.	N	N	#17	>5YR S	13	40	4000	4'PS	none	Y					
M	E-W		River rd. to Port Washington		note 6	none	>5YR S		30	1200	none	PS	N					
M	E-W	Donges Bay Road	Wasaukee Rd to Lemke park	Y	Y	none	>5YR S	7	40	4200	none	PS	N					
M	E-W		Lemke park to Wauwatosa			2	>5YR S		40	3900	9' SUP	none	Y					
M	E-W		Wauwatosa to Cedarburg			5,13,14,15	>5YR S		35	3900	5' PS	SUP	N					
M	E-W SI		Milw. River bridge			na	na		NR	na	na	na	y	N				
M	E-W		River rd to Lake Shore			20,32	>5YR S		7	30	1200	4' PS	SUP	N				
M	E-W		Freistadt Road			Wausakee to Granville	N		N	none	>5YR S	NR	45	2200	na	PS	N	
M	E-W	Granville to OIT		none	>5YR S	NR		35		3400	4' PS	OK	Y					
T	E-W	OIT to River Rd (note 4)		Y	Y	7	VOT?	6	25	?	SW	SUP	N					
M	E-W & N-S	River rd. to Fieldwood to Highland		N	Y	none	>5YR S	6	25-35	1800	5'PS	none	y					
M	E-W	Highland Road	OIT to Rotary Park Shore Dr	v	Y	6	>5YR S	4	40	7700	3.5' PS	SUP	N					
M	E-W		Rotary Park to Maplecrest In.		none	>5YR S		35-40	9100	3.5' PS	SUP	N						

Attachment: MT master plan corridors (10472 : M-T Bikeway Master Plan Project Prioritization

Community		Direction/Spot improvement	Corridor (See note 1)	Segment	Identified as high use corridor	Recommended bike route (note 11)	Safety Bike Crash inc. #	Future road work planned?	Public survey rank (note 7)	Speed (mph)	Traffic volume (vpd)	Existing Facility	Recommended facility (GRAEF)	Existing facility meets rec.	Feasibility	Cost	Overall Ranking
GRAEF REPORT PAGE#					31	53	22	note 12	10	43	43	17	49	na			
M	E-W	Highland Road	Maplecrest In. to Port Wash. rd.	Y	Y	none	>5YRS	4	35	9100	3.5' PS & 8'SUP	SUP	Y				
M	E-W		Port Wash to LS drive			23,24	DOT ?		35	?	MIXED	?	?				
M	E-W		Wasaukee Rd to Swan Rd	Y	Y	none	DOT ?		45	12,000	2'-3' PS	BL	N				
M	E-W	Mequon Road	Swan to Wauwatosa (note 3)			none	DOT 2025		40	12000	none	BL	N				
M	E-W		Wauwatosa to OIT (note 3)	N	N	#3, #4, #11	DOT ?		40	17000	5' SW	SUP	N				
M	E-W		OIT to RR			#19, #28	DOT 2025?	1	40	23000 (note 2)	5' SW	SUP	N				
M	E-W		RR to Lakeshore N	Y	Y	none	2027		35	2,000	3.5' PS	BL?	N				
M	E-W		RR to Lakeshore S			none	2027		35	2,000	1.5' PS	SUP + EPS	N				
M	E-W SI		Milw. River bridge			none	DOT?		40	23,000	5' SW	BBL	N				
M	N-S & E-W SI		Mequon / Cedarburg Intersection			#12,	DOT?		40M/30C	32000	na	pg. 42	NA				
M	E-W		Mequon rd. alternate - Swan to	West Mequon Neighborhoods Swan to Buntrock	Y	Y	none	>5YRS (note 8)	NR	25	NA	none	BB	N			note (9)

Attachment: MT master plan corridors (10472 : M-T Bikeway Master Plan Project Prioritization

Community	Direction/Spot improvement	Corridor (See note 1)	Segment	Identified as high use corridor	Recommended bike route (note 11)	Safety Bike Crash inc, #	Future road work planned?	Public survey rank (note 7)	Speed (mph)	Traffic volume (vpd)	Existing Facility	Recommended facility (GRAEF)	Existing facility meets rec.	Feasibility	Cost	Overall Ranking		
GRAEF REPORT PAGE#				31	53	22	note 12	10	43	43	17	49	na					
M-T		Cedarburg (note 3)	Division Street			none	>5YR S VOT?	18	25	NA	none	SW + BL	N			note (9)		
T	E-W	Riverview Drive (note 4)	Freistadt to Main st.	N	Y	none	VOT?	NR	25	NA	none	BB	N			note (9)		
M	E-W SI	Mourning Dove Lane		N	Y	none	na	NR	na	na	none	SUP	N					
M	N-S	Buntrock Avenue	Mequon to curve	N	Y?	none	>5YR S	20	25	1200	none	SW + BL	N			note (9)		
T	E-W		curve to Main			#9	VOT?		25	1200	SW	BL	N				note (9)	
M-T	N-S	Cedarburg Road/Main st.	County line to Westfield	Y	Y	none	>5YR S	2	45	9900	4' PS	8' PS +SUP	N					
M			Westfield to Mequon	N	N	none	>5YR S		45/30	9900	4' PS	none	Y					
M			Mequon to Division (note 3)	Y	Y	none	>5YR S		30	11600	5'SW	SUP	N					
T			Division to north VOT	N	N	none	VOT?		30	11600	5'SW	none	Y					
M			north VOT to Pioneer			none	>5YR S		45	5500	4' PS	none	Y					
T	N-S	Green Bay Road	Main to Riverview	N	N	9	VOT?	5	25	5300	5' SW	none	Y?					
T			Riverview to Heidel		Y	none	VOT?		25	5300?	5' SW	none	Y					
M-T			Heidel to Highland		Y	8	VOT + M		35	5300?	4' PS	SW or SUP	N					

Attachment: MT master plan corridors (10472 : M-T Bikeway Master Plan Project Prioritization

Community	Direction/Spot improvement	Corridor (See note 1)	Segment	Identified as high use corridor	Recommended bike route (note 11)	Safety Bike Crash inc, #	Future road work planned?	Public survey rank (note 7)	Speed (mph)	Traffic volume (vpd)	Existing Facility	Recommended facility (GRAEF)	Existing facility meets rec.	Feasibility	Cost	Overall Ranking	
GRAEF REPORT PAGE#				31	53	22	note 12	10	43	43	17	49	na				
M			Highland to Pioneer		N	6	>5YRS		35	5300?	none	none	Y?				
M	N-S	Lake Shore Drive	Zedler to Mequon Rd	Y	Y	none	2026	11	35	1650	1.5'PS	SUP + EPS	N			note (9)	
M			Mequon to Glen Oaks	Y	y	none	>5YRS		30	1000?	2.5'PS	EPS	N				
M			Glen Oaks to Highland	Y	y	none	2028		30	1000?	3.5'PS	EPS	N				
M			Highland to Pioneer	N?	N?	21,23	>5YRS		35-40	760	3.5'PS	none	?				
M-T	N-S	Ozaukee Interurban Trail (OIT) (note 5)	County Line Rd to Pioneer Rd	Y	Y	none	note 13	3	na	na	SUP	note 13	na				
M	N-S SI		Donges Bay Road Crossing					NA									
M	N-S SI		WE Energies Facility (note10)					NA									
M	N-S	Port Washington Road / CTH W)	County line to Katherine	N?	Y	none	>5YRS	8	35	16000	5'BL + SUP	none	y (note 14)				
			Katherine to Zedler			none	>5YRS		35	10000	5'BL	none					
			Zedler to Winding Hollow	Y		none	>5YRS		35	12000	3.5'BL (CURB)	none	y?				
			Winding Hollow to Glen Oaks			#25,#26,#27	>5YRS		35	15000	2' BL (CURB)	EBL + SUP	N				

Attachment: MT master plan corridors (10472 : M-T Bikeway Master Plan Project Prioritization

Community	Direction/Spot improvement	Corridor (See note 1)	Segment	Identified as high use corridor	Recommended bike route (note 11)	Safety Bike Crash inc, #	Future road work planned?	Public survey rank (note 7)	Speed (mph)	Traffic volume (vpd)	Existing Facility	Recommended facility (GRAEF)	Existing facility meets rec.	Feasibility	Cost	Overall Ranking
GRAEF REPORT PAGE#				31	53	22	note 12	10	43	43	17	49	na			
			Glen Oaks to Highland	Y		none	>5YR S		45	12000	4' BL	5' SW	N			
			Highland to Pioneer	N	N	none	>5YR S		45	8700	4' BL	none	y			
M	N-S	Range Line Road	County line to Donges Bay	N	Y	none	>5YR S	10	30	3100	1.5' PS	none ?	?			
			Donges Bay to Mequon			none	>5YR S		30	3300	1.5' PS	SUP	N			
M-T	N-S	River Road	Freistadt Rd to Highland Rd	Y	y	none	>5YR S VOT?	12	30	970	5'PS	OK	Y			
M-T	N-S SI	River Road Bridge		N	N			NA								
M	N-S	Swan Road	County Line to Donges Bay	N	N	na	>5YR S		45	1300	none	none				
			Donges Bay Rd to Daventry	Y	Y	na	>5YR S	14	45	1800	9'SUP	OK				
			Daventry to Mequon	Y	Y	na	>5YR S		45	1800	none	SUP				*
		Wauwatosia Rd	County Line to Donges Bay	N	Y		DOT?		45	9100	12' PS	BL	N			
			Donges Bay to Mequon	N	Y		DOT?		45	11500	12' PS	BL + SW(E)	N			

Attachment: MT master plan corridors (10472 : M-T Bikeway Master Plan Project Prioritization

Community	Direction/Spot improvement	Corridor (See note 1)	Segment	Identified as high use corridor	Recommended bike route (note 11)	Safety Bike Crash inc, #	Future road work planned?	Public survey rank (note 7)	Speed (mph)	Traffic volume (vpd)	Existing Facility	Recommended facility (GRAEF)	Existing facility meets rec.	Feasibility	Cost	Overall Ranking	
M	N-S	GRAEF REPORT PAGE# / STH 181		31	53	22	note 12	10	43	43	17	49	na				
			Mequon to Highland	N	Y	none	>5YRS		9	35-40	9700	2.5' PS	BL + SW (EW)	N			
			Highland to Pioneer	N	Y		>5YRS			40	7300	2.5' PS	BL + SW (EW)	N			



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Office of Engineering

TO: Joint Mequon-Thiensville Bike and Pedestrian Way Commission
FROM: Cole McCraw, Assistant City Engineer
DATE: July 10, 2025
SUBJECT: WisDOT STH181 from County Line to Mequon Road Pavement Marking

Background

The Commission recently requested discussion for the upcoming WisDOT project on Wauwatosa Road (STH 181) from County Line Road to Mequon Road (STH 167).

Project information can be found on the WisDOT website:

<https://wisconsindot.gov/Pages/projects/by-region/se/181ozauk/default.aspx>

Chair Maciolek reached out to the WisDOT project manager informing them of the Bikeway Master Plan and the plan's recommendation for Wauwatosa Road (STH 181). The email correspondence is attached for reference.

For reference, the adopted M-T Bike and Pedestrian Master Plan recommends the following for Wauwatosa Road:

Wauwatosa Road/STH 181

Extents: Pioneer Rd to Mequon Rd

Add cycle track or buffered bike lane. This portion of Wauwatosa Rd is a locally-owned connecting highway.

Extents: Mequon Rd (STH 67) to County Line Rd

Include a cycle track or buffered bike lane as part of planned road reconstruction. This portion of Wauwatosa Rd is State-owned.

Extents: Highland Rd to Donges Bay Rd

Install 5 ft sidewalks on both sides of the street.

Planning Considerations:

- *Wauwatosa Rd is a State-owned State Trunk Highway south of Mequon Rd. It is a locally-owned connecting highway north of Mequon Rd. While there is more local control over the locally-owned connecting highway portion, there is still some State coordination needed for improvements to a locally-owned connecting highway. More information on connecting highways can be found here: <https://wisconsindot.gov/Pages/projects/data-plan/plan-res/connecting.aspx>*

According to WisDOT, the cycle track recommendation would not be possible to implement into the project at this point in design. However, adding the buffered bike lane may be possible with an additional agreement with the City for future maintenance of the markings. The signed future

maintenance agreement would be required prior to the project for WisDOT to install the markings.

Analysis

The WisDOT project manager confirmed that the buffered bike lane would be possible to implement with the project, and they have drafted a pavement marking plan showing the buffered bike lane. This draft plan is attached for reference.

Fiscal Impact

According to WisDOT correspondence, the City would be financially responsible for future maintenance of the markings. Staff will request a WisDOT maintenance agreement pending this body's recommendation. Staff will also need to assess future maintenance costs and feasibility of performing future maintenance work. If the Department of Public Works does not have the ability to perform future maintenance, potentially due to lack of necessary equipment, the City may need to hire a contractor to perform this work in perpetuity.

For reference, the GRAEF report includes a planning-level cost of \$35/linear foot for a buffered bike lane.

Recommendation

Staff recommends that the Commission make a recommendation to the Common Council on whether the buffered bike lane should be installed with this project. Alternatively, the Commission may recommend to forego the buffered bike lanes in lieu of recommending the cycle track option with a future project. The City will not pursue implementing both alternatives.

Attachments:

2025-06-24 Wauwatosa Road Pavement Marking WisDOT correspondence (PDF)
2729-07-00 PM (draft 90%) (PDF)



RE: 2729-07-00/20/70 STH 181 West Allis - Cedarburg, County Line Road to Mequon Road, Ozaukee and Milwaukee Counties - RE: Wauwatosa Road Improvements

From Heydel, Tom - DOT <Tom.Heydel@dot.wi.gov>

Date Tue 6/24/2025 12:53 PM

To Villaca, Martin - DOT <Martin.Villaca@dot.wi.gov>

Cc Kristen Lundeen <KLundeen@cityofmequonwi.gov>; Levy, Andrew J - DOT <Andrew.Levy@dot.wi.gov>; Cole McCraw <CMcCraw@cityofmequonwi.gov>; DeGrado, Alena - DOT <alena.degrado@dot.wi.gov>; McElmeel, Timothy J - DOT <Timothy.McElmeel@dot.wi.gov>; Schmitz, Kiley - DOT <kiley.schmitz@dot.wi.gov>; LeVeque, Joshua - DOT <Joshua.LeVeque@dot.wi.gov>; Yang, Neng - DOT <Neng.Yang@dot.wi.gov>; Herrick, Richard - DOT <Richard.Herrick@dot.wi.gov>; Ken Maciolek <seniorbikeboy@gmail.com>; Martens, Karen L - DOT <Karen.Martens@dot.wi.gov>

Martin

You have stated it correctly. WisDOT will install buffered bike lanes and bike symbols as part of a construction project; but we don't maintain them. Municipality has to agree to maintain them before we can include them with the project

Same holds true for crosswalk marking at unsignalized locations
At signalized locations we maintain 2-6" crosswalk lines

Tom

From: Villaca, Martin - DOT <Martin.Villaca@dot.wi.gov>

Sent: Tuesday, June 24, 2025 12:50 PM

To: Cole McCraw <CMcCraw@cityofmequonwi.gov>; Heydel, Tom - DOT <Tom.Heydel@dot.wi.gov>; Martens, Karen L - DOT <Karen.Martens@dot.wi.gov>

Cc: Kristen Lundeen <KLundeen@cityofmequonwi.gov>; Levy, Andrew J - DOT <Andrew.Levy@dot.wi.gov>; DeGrado, Alena - DOT <alena.degrado@dot.wi.gov>; McElmeel, Timothy J - DOT <Timothy.McElmeel@dot.wi.gov>; Schmitz, Kiley - DOT <kiley.schmitz@dot.wi.gov>; LeVeque, Joshua - DOT <Joshua.LeVeque@dot.wi.gov>; Yang, Neng - DOT <Neng.Yang@dot.wi.gov>; Herrick, Richard - DOT <Richard.Herrick@dot.wi.gov>; Ken Maciolek <seniorbikeboy@gmail.com>

Subject: RE: 2729-07-00/20/70 STH 181 West Allis - Cedarburg, County Line Road to Mequon Road, Ozaukee and Milwaukee Counties - RE: Wauwatosa Road Improvements

Cole – My understanding is WisDOT maintains lane lines, edge lines, stop bars, etc., on State Highways. However, for special markings such as crosswalks and buffered bike lanes, WisDOT installs them at our expense, but subsequent maintenance of these types of markings would be the responsibility of the municipality. Also, we can further refine/evaluate if the markings are only needed between Donges Bay and Mequon Road (1 mile), or if they are needed from County Line to Mequon Road (2 miles). I think the draft marking plan we sent had the entire 2-mile corridor.

Tom, Karen, can you clarify or elaborate on the City's question about maintenance of the crosswalk and bike markings?

Thanks,

Martin B. Villaca, P.E.

Project Manager

(262) 548-6456 cell (414) 750-0426

martin.villaca@dot.wi.gov

Wisconsin Department of Transportation

141 NW Barstow ST.

Waukesha, WI 53187

From: Cole McCraw <CMcCraw@cityofmequonwi.gov>**Sent:** Tuesday, June 24, 2025 12:32 PM**To:** Villaca, Martin - DOT <Martin.Villaca@dot.wi.gov>**Cc:** Kristen Lundeen <KLundeen@cityofmequonwi.gov>; Levy, Andrew J - DOT <Andrew.Levy@dot.wi.gov>;DeGrado, Alena - DOT <alena.degrado@dot.wi.gov>; McElmeel, Timothy J - DOT<Timothy.McElmeel@dot.wi.gov>; Schmitz, Kiley - DOT <kiley.schmitz@dot.wi.gov>; LeVeque, Joshua - DOT<Joshua.LeVeque@dot.wi.gov>; Yang, Neng - DOT <Neng.Yang@dot.wi.gov>; Herrick, Richard - DOT<Richard.Herrick@dot.wi.gov>; Heydel, Tom - DOT <Tom.Heydel@dot.wi.gov>; Martens, Karen L - DOT<Karen.Martens@dot.wi.gov>; Ken Maciolek <seniorbikeboy@gmail.com>**Subject:** Re: 2729-07-00/20/70 STH 181 West Allis - Cedarburg, County Line Road to Mequon Road, Ozaukee and Milwaukee Counties - RE: Wauwatosa Road Improvements**CAUTION:** This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Martin,

Thank you for your response. You mentioned "an agreement for the City of Mequon to maintain the markings would be needed and will be submitted under separate cover."

The City does not maintain pavement markings elsewhere on state highways. Can you clarify if or why this is needed?

Thanks,
Cole

**Cole McCraw, PE**

Assistant City Engineer

City of Mequon

11333 N. Cedarburg Rd. | Mequon, WI 53092

262-236-2957 | cmccraw@cityofmequonwi.gov[City Website](#) | [Facebook](#)

Please Note: The City of Mequon is transitioning its website and email addresses to cityofmequonwi.gov. Emails sent to/from the City's prior ci.mequon.wi.us addresses will forward to the new cityofmequonwi.gov domain through January 31, 2026. Please update your records accordingly.

From: Villaca, Martin - DOT <Martin.Villaca@dot.wi.gov>

Sent: Thursday, June 12, 2025 2:00 PM

To: Ken Maciolek <seniorbikeboy@gmail.com>

Cc: Cole McCraw <CMcCraw@cityofmequonwi.gov>; Kristen Lundeen <KLundeen@cityofmequonwi.gov>; Levy, Andrew J - DOT <Andrew.Levy@dot.wi.gov>; DeGrado, Alena - DOT <alena.degrado@dot.wi.gov>; McElmeel, Timothy J - DOT <Timothy.McElmeel@dot.wi.gov>; Schmitz, Kiley - DOT <kiley.schmitz@dot.wi.gov>; LeVeque, Joshua - DOT <Joshua.LeVeque@dot.wi.gov>; Yang, Neng - DOT <Neng.Yang@dot.wi.gov>; Herrick, Richard - DOT <Richard.Herrick@dot.wi.gov>; Heydel, Tom - DOT <Tom.Heydel@dot.wi.gov>; Martens, Karen L - DOT <Karen.Martens@dot.wi.gov>

Subject: 2729-07-00/20/70 STH 181 West Allis - Cedarburg, County Line Road to Mequon Road, Ozaukee and Milwaukee Counties - RE: Wauwatosa Road Improvements

Dear Ken:

Thank you again for connecting regarding the referenced project, as well as the Joint Mequon-Thiensville Bike and Pedestrian Master Plan, which I understand was approved in March, 2025. The purpose of the referenced project is to address the deteriorating pavement condition and decreasing ride quality along WIS 181, outdated traffic signal equipment and drainage maintenance concerns, as well as evaluating improvements to multi-modal accommodations. For this high-speed, high volume State Trunk Highway arterial with 10-foot paved shoulders, we saw the need for both bicycle and pedestrian connectivity.

I submitted the new Master Plan and concerns to our Multimodal Unit for additional review, as the referenced Pavement Replacement project originally was scoped in 2020 and 2021. At the time of scoping in 2020 and 2021, cost-benefit analysis conducted by WisDOT's OAPM (Office of Asset and Performance Management at WisDOT Central Office) determined the facility did not have operational or safety justification to add bike slip lanes at intersections where they don't currently exist or widen the roadway in the segment in the north where the shoulder drops completely. As a result, the project was scoped to perpetuate the 10-foot existing shoulders as bike accommodations and add sidewalk to eliminate gaps along the west side of STH 181 between Donges Bay Road and Mequon Road. Real estate acquisition began in 2024 and is still ongoing for this sidewalk with several parcels still pending. Right-of-way should be complete by this November.

However, much has changed in the past few years, and national guidance has shifted regarding higher speed/higher volume roadways, with the recommendation to increase protection in the form of separation as speeds and car volumes increase. The Multimodal Unit has been relying largely on the FHWA's Bikeway Selection Guide, which has preferred facilities based on land use types, speeds, and car traffic volumes. Based on the 45mph and 9,100 AADT from County Line Rd to Donges Bay, FHWA would recommend a 10ft shoulder, given this area would be characterized as 'rural' due to land uses and building densities. From Donges Bay to Mequon Rd, based on the 45mph and 11,700 AADT, FHWA would recommend a separated bike lane or shared use path, given this stretch of STH 181 would be characterized as 'suburban.'

If this project were in the scoping phase today, given SEWRPC Vision 2050 designates the corridor for an Enhanced Bicycle Facility and the Mequon Thiensville Master Plan designates the corridor for a cycle track or buffered bike lane, the recommendation would be to consider a separated facility for this project and complete a new cost benefit analysis to determine if there would be sufficient mobility benefit to achieve a separated facility at state cost. Because of the current 90%-point in design, adding a cycle track would not be possible given that additional right-of way would need to be acquired which would delay the project significantly. The existing pavement is in severe distress and an additional delay would be problematic for the roadway. Emergency pavement repairs were performed in the summer of 2023 in the northbound lanes (Asphalt resurfacing near Donges Bay) , and again in March 2025.

Since the existing facility has a 10ft shoulder from County Line Rd to Knightsbridge Dr, we likely do have the space to accommodate a buffered bike lane with additional pavement striping. A buffered bike lane could be achieved by creating a painted hatched buffer space and a marked bike lane, which increases awareness for motorists about the presence of bicyclists. With a 10ft shoulder, we could likely achieve a 4ft buffer space and 6ft bike lane. As a result, we are proposing to revise the Pavement marking to provide a buffered bike lane and have completed a draft design for this revised marking (attached). While the project could install these markings, an agreement for the City of Mequon to maintain the markings would be needed and will be submitted under separate cover. Input for the City on the attached plan sheets also is welcome.

Thank you again for taking time to discuss the corridor with me and providing the Mequon Thiensville Master Plan.

Sincerely,

Martin B. Villaca, P.E.

Project Manager

(262) 548-6456 cell (414) 750-0426

martin.villaca@dot.wi.gov

Wisconsin Department of Transportation
141 NW Barstow ST.
Waukesha, WI 53187

From: Ken Maciolek <seniorbikeboy@gmail.com>
Sent: Friday, May 16, 2025 11:59 AM
To: Villaca, Martin - DOT <Martin.Villaca@dot.wi.gov>
Cc: Cole McCraw <cmccraw@ci.mequon.wi.us>
Subject: Wauwatosa Road Improvements

CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Martin:

Nice talking to you today. As I mentioned, I am the Chairman of the Joint Mequon-Thiensville Bike and Pedestrian Way Commission. Our Commission provides advice to the Mequon Common Council and Village of Thiensville Board of Trustees on the implementation of a master plan for trails and ways of travel accessible to bicycles and pedestrians. In March, 2025, both Mequon and Thiensville approved the updated master plan. The final plan is attached below.

Under the master plan, Wauwatosa Road is one of our north-south connectors for bicycle travel. On page 46 of the plan, Graef recommends a buffered bike lane or cycle track on Wauwatosa Road between County Line Road and Mequon Road. We bring this to your attention as you continue your planning for road improvements on that stretch of Wauwatosa Road. Given the speed and volume of traffic on Wauwatosa, we believe that some additional bicycling facility is needed to provide safer bicycle travel.

Per your request, I am also attaching a copy of the article that appeared in the Ozaukee News Graphic regarding the proposed improvements to Wauwatosa Road.

Thank you for taking the time to discuss this matter with me. Feel free to contact me or our Assistant City Engineer, Cole McCraw (262-236-2957) for more information.

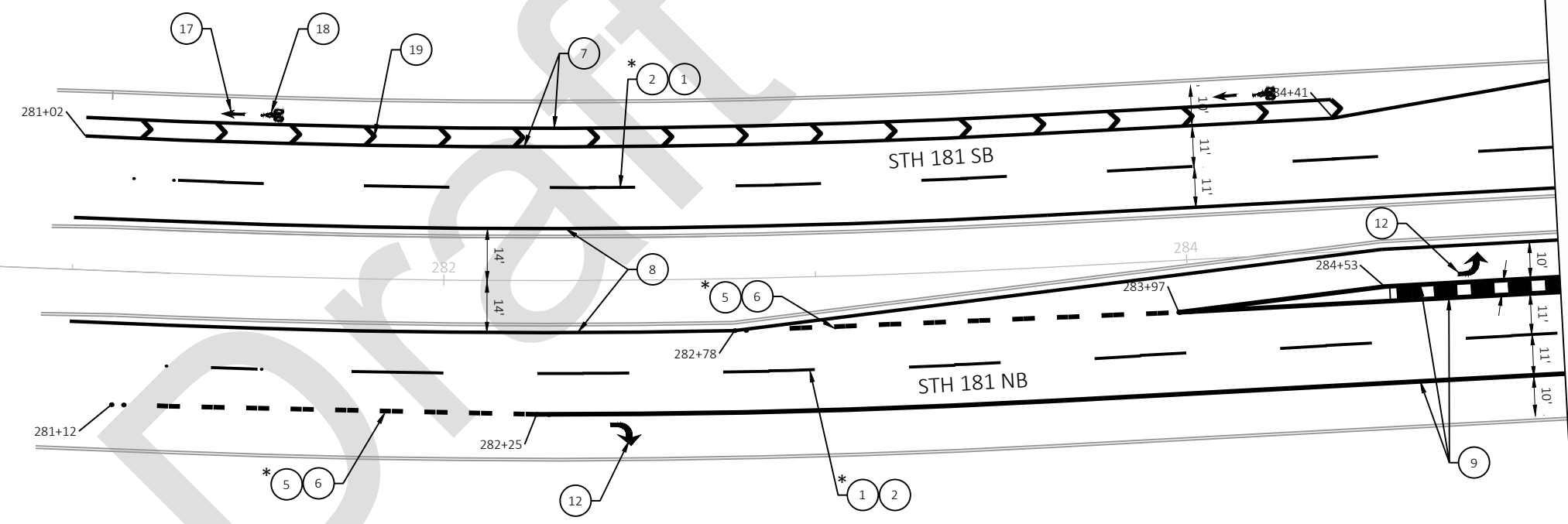
Ken Maciolek
414-719-5909

Sent from my iPad

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 285+00



LEGEND

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| 10 MARKING STOP LINE EPOXY 18-INCH (WHITE) | |

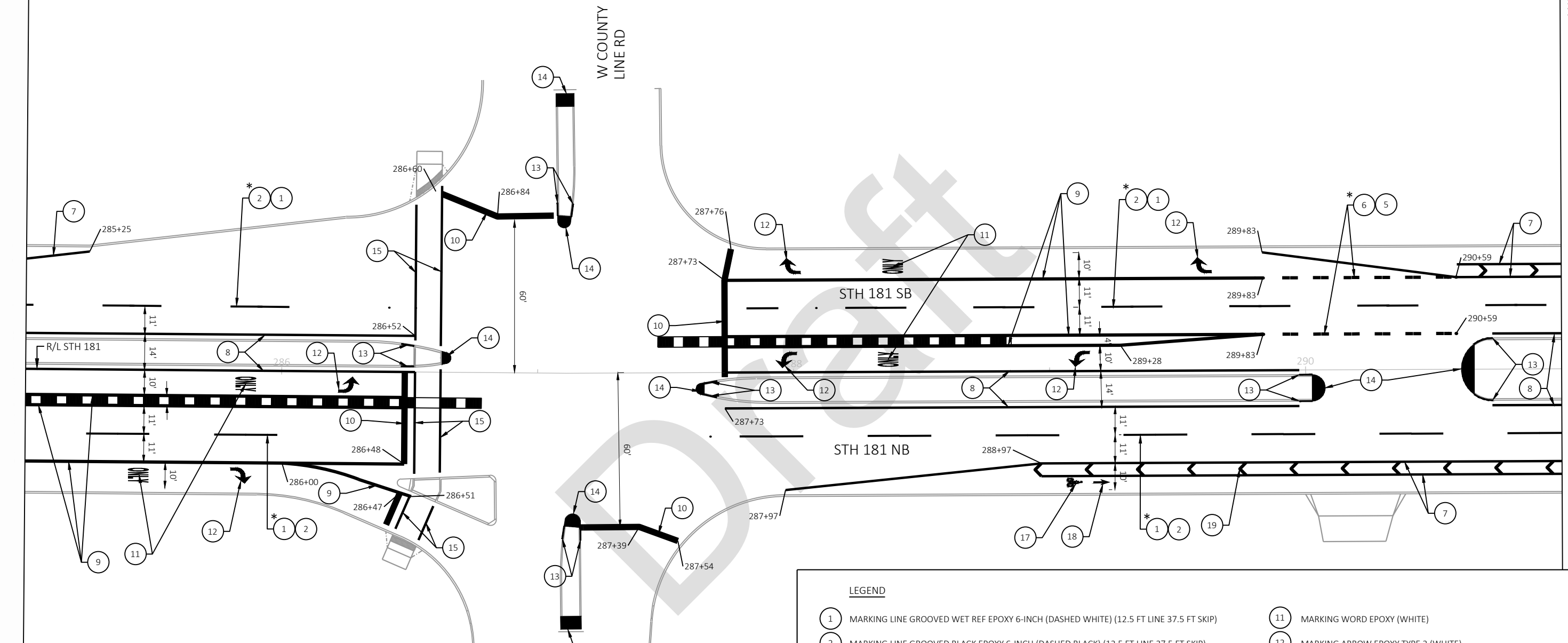
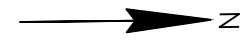
* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

PROJECT NO: 2729-07-70	HWY: STH 181	COUNTY: OZAUKEE	PAVEMENT MARKING	SHEET	E
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FILE NAME : N:\PDS\C3D\27290700\SHEETSPLAN\024501-PM.DWG	PLOT DATE : 6/2/2025 10:52 AM	PLOT BY : YANG, VANG NENG	PLOT NAME :	PLOT SCALE : 1 IN=40 FT
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Attachment: 2729-07-00 PM (draft 90%) (10471 : WisDOT STH181 from County Line to Mequon Road Pavement Marking)

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 285+00

MATCH LINE 291+00

W COUNTY LINE RD

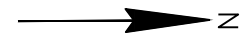
W COUNTY LINE RD

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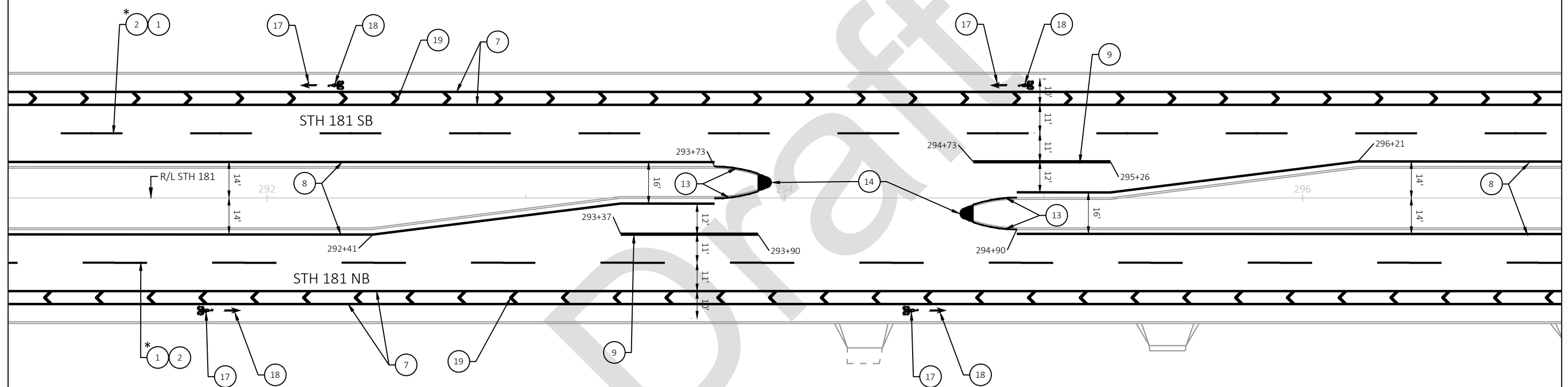
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- 17 MARKING ARROWS (BIKE LANE ARROW)
- 18 MARKING SYMBOLS (BIKE LANE SYMBOL)
- 19 MARKING DIAGONAL 12-INCH (WHITE)

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 297+00



MATCH LINE 291+00

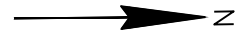
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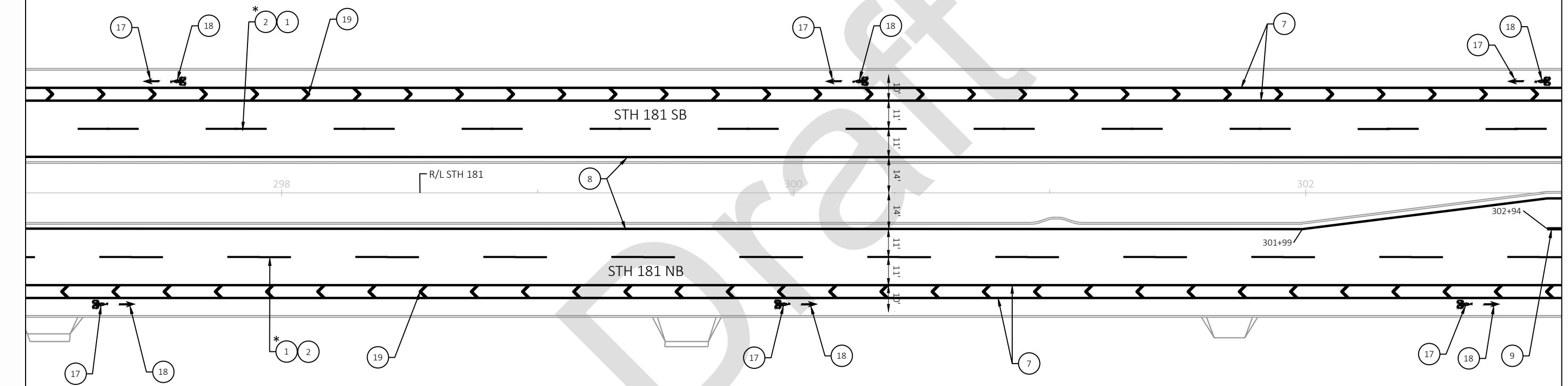
* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

Attachment: 2729-07-00 PM (draft 90%) (10471 : WisDOT STH181 from County Line to Mequon Road Pavement Marking)

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 303+00



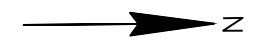
MATCH LINE 297+00

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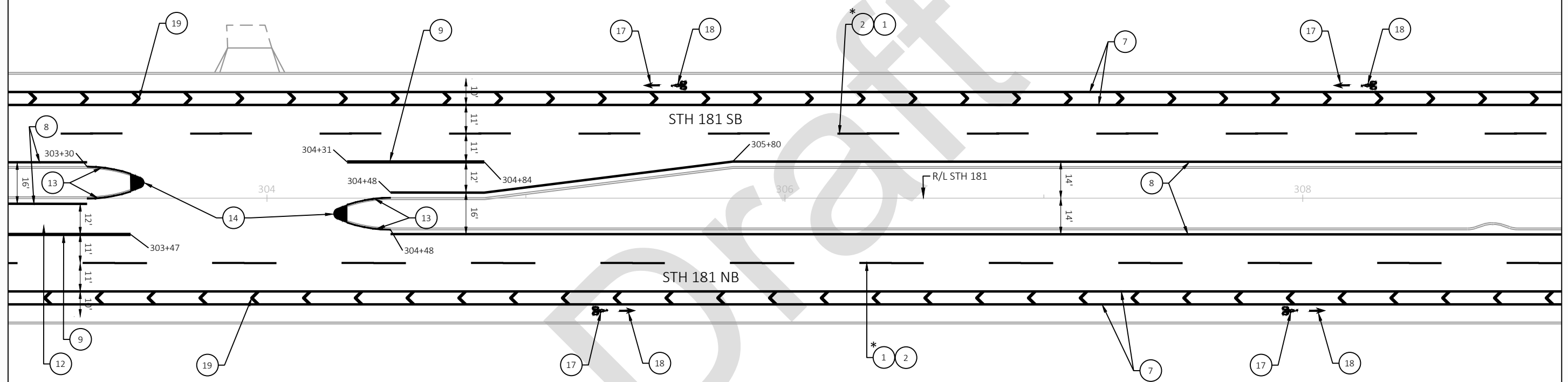
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* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 309+00



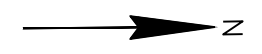
MATCH LINE 303+00

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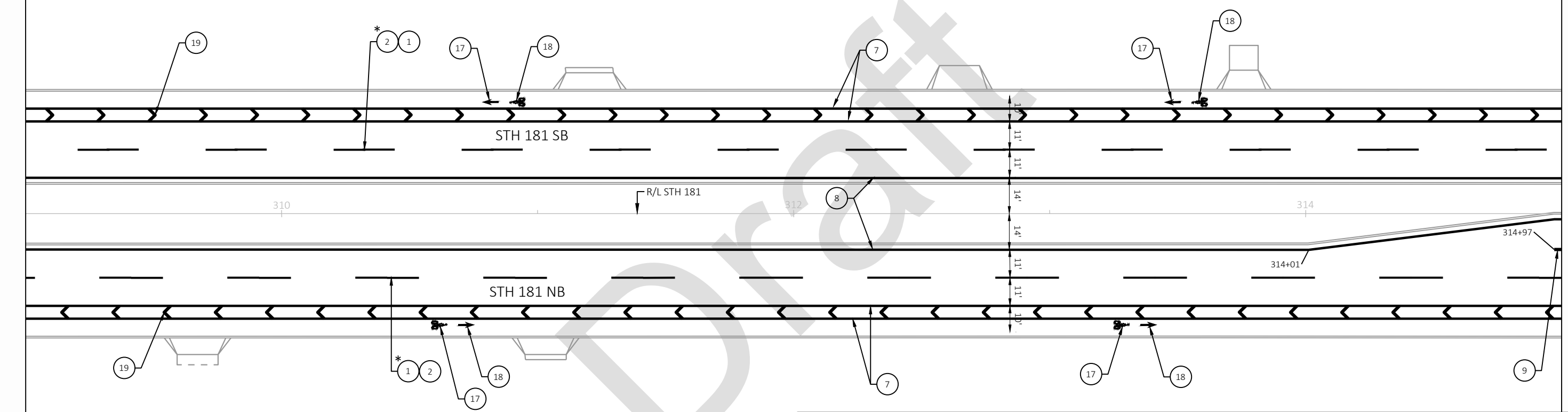
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* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 315+00



MATCH LINE 309+00

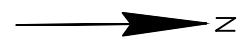
LEGEND

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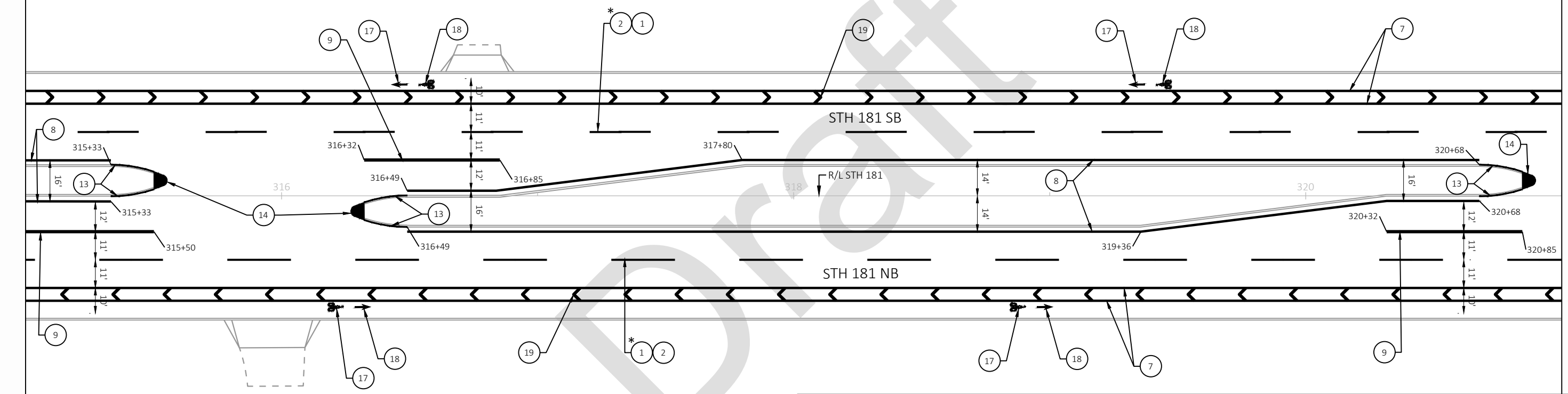
* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

Attachment: 2729-07-00 PM (draft 90%) (10471 : WisDOT STH181 from County Line to Mequon Road Pavement Marking)

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 321+00



MATCH LINE 315+00

LEGEND

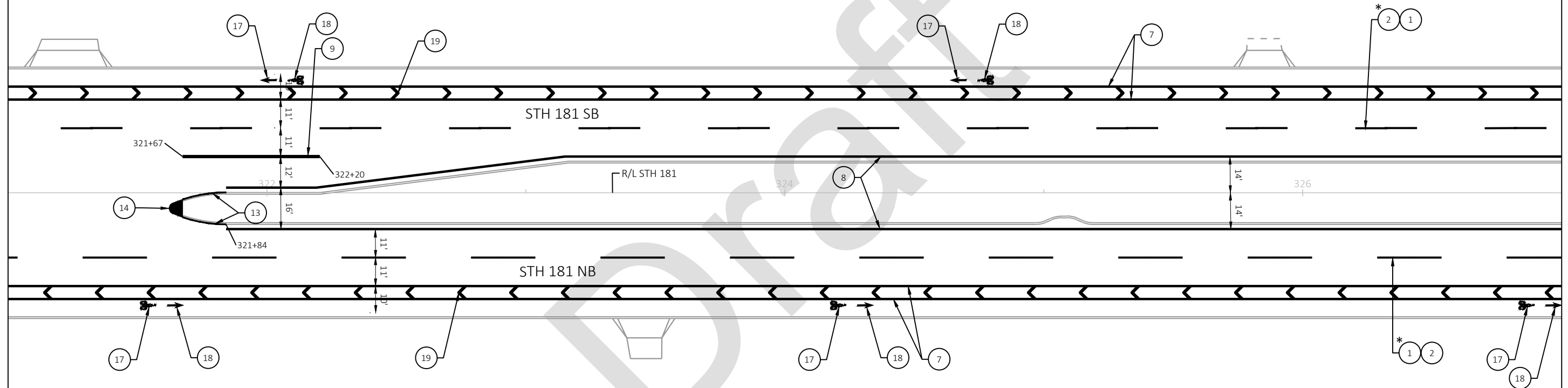
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- 18 MARKING SYMBOLS (BIKE LANE SYMBOL)
- 19 MARKING DIAGONAL 12-INCH (WHITE)

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 327+00



MATCH LINE 321+00

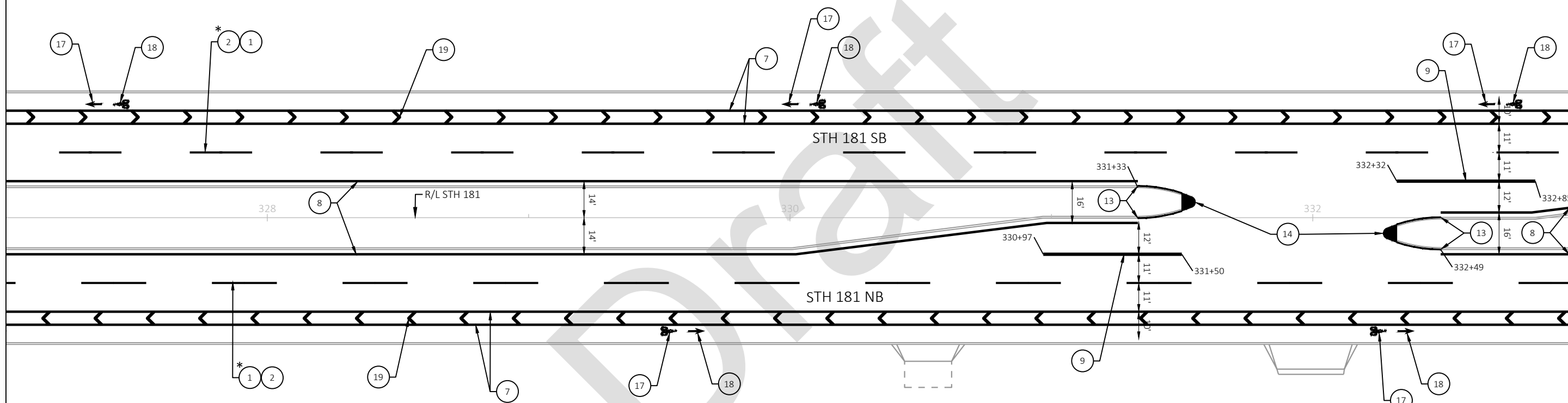
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| 4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 14 MARKING ISLAND NOSE EPOXY (YELLOW) |
| 5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP) | 15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) |
| 6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 16 MARKING YIELD LINE EPOXY 18-INCH (WHITE) |
| 7 MARKING LINE EPOXY 6-INCH (WHITE) | 17 MARKING ARROWS (BIKE LANE ARROW) |
| 8 MARKING LINE EPOXY 6-INCH (YELLOW) | 18 MARKING SYMBOLS (BIKE LANE SYMBOL) |
| 9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE) | 19 MARKING DIAGONAL 12-INCH (WHITE) |
| 10 MARKING STOP LINE EPOXY 18-INCH (WHITE) | |

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

Attachment: 2729-07-00 PM (draft 90%) (10471 : WisDOT STH181 from County Line to Mequon Road Pavement Marking)

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY

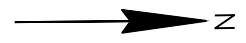


LEGEND

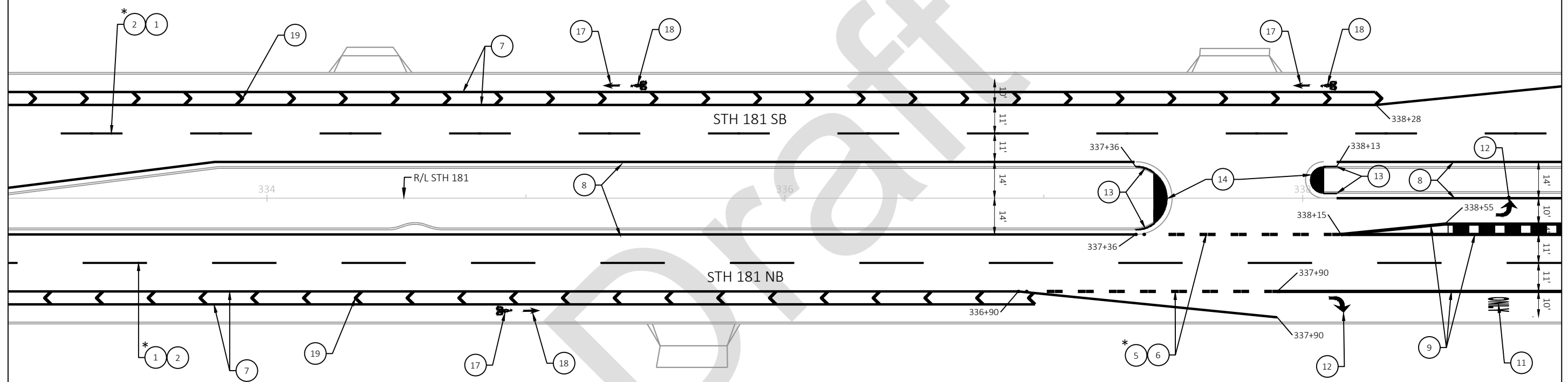
- 1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- 2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)
- 3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
- 4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)
- 5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
- 6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)
- 7 MARKING LINE EPOXY 6-INCH (WHITE)
- 8 MARKING LINE EPOXY 6-INCH (YELLOW)
- 9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)
- 10 MARKING STOP LINE EPOXY 18-INCH (WHITE)
- 11 MARKING WORD EPOXY (WHITE)
- 12 MARKING ARROW EPOXY TYPE 2 (WHITE)
- 13 MARKING CURB EPOXY (YELLOW)
- 14 MARKING ISLAND NOSE EPOXY (YELLOW)
- 15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- 16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
- 17 MARKING ARROWS (BIKE LANE ARROW)
- 18 MARKING SYMBOLS (BIKE LANE SYMBOL)
- 19 MARKING DIAGONAL 12-INCH (WHITE)

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 339+00



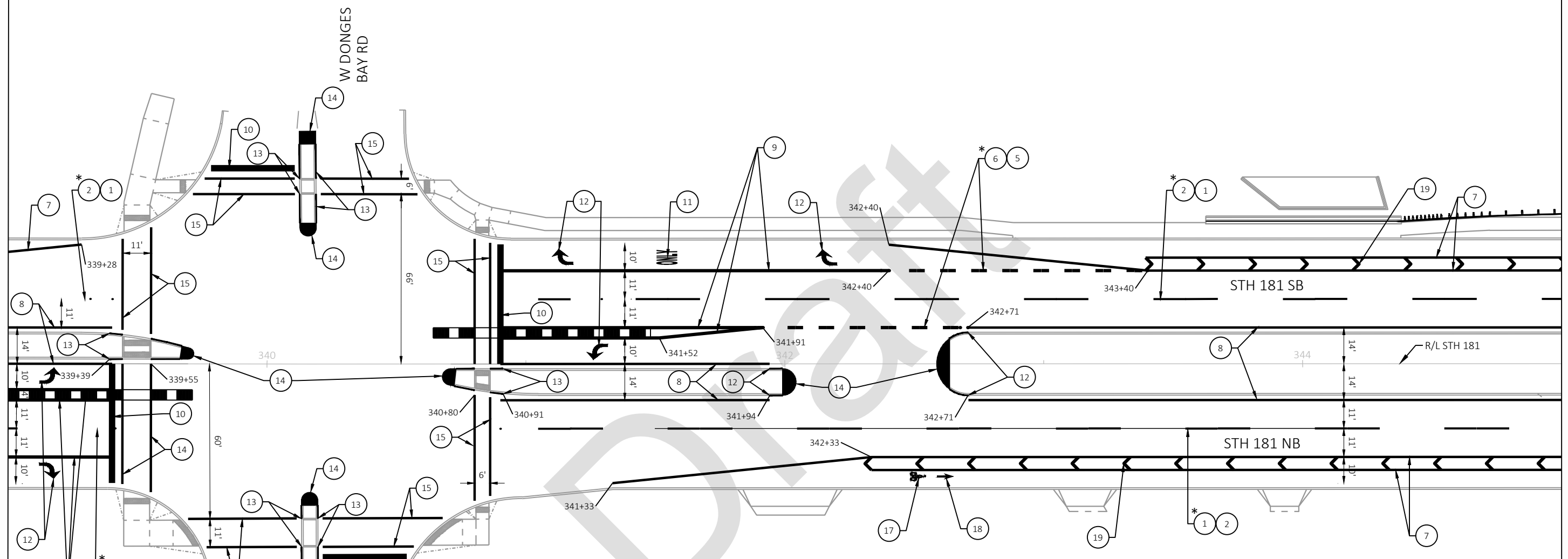
MATCH LINE 333+00

LEGEND

- 1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- 2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)
- 3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
- 4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)
- 5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
- 6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)
- 7 MARKING LINE EPOXY 6-INCH (WHITE)
- 8 MARKING LINE EPOXY 6-INCH (YELLOW)
- 9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)
- 10 MARKING STOP LINE EPOXY 18-INCH (WHITE)
- 11 MARKING WORD EPOXY (WHITE)
- 12 MARKING ARROW EPOXY TYPE 2 (WHITE)
- 13 MARKING CURB EPOXY (YELLOW)
- 14 MARKING ISLAND NOSE EPOXY (YELLOW)
- 15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- 16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
- 17 MARKING ARROWS (BIKE LANE ARROW)
- 18 MARKING SYMBOLS (BIKE LANE SYMBOL)
- 19 MARKING DIAGONAL 12-INCH (WHITE)

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



LEGEND

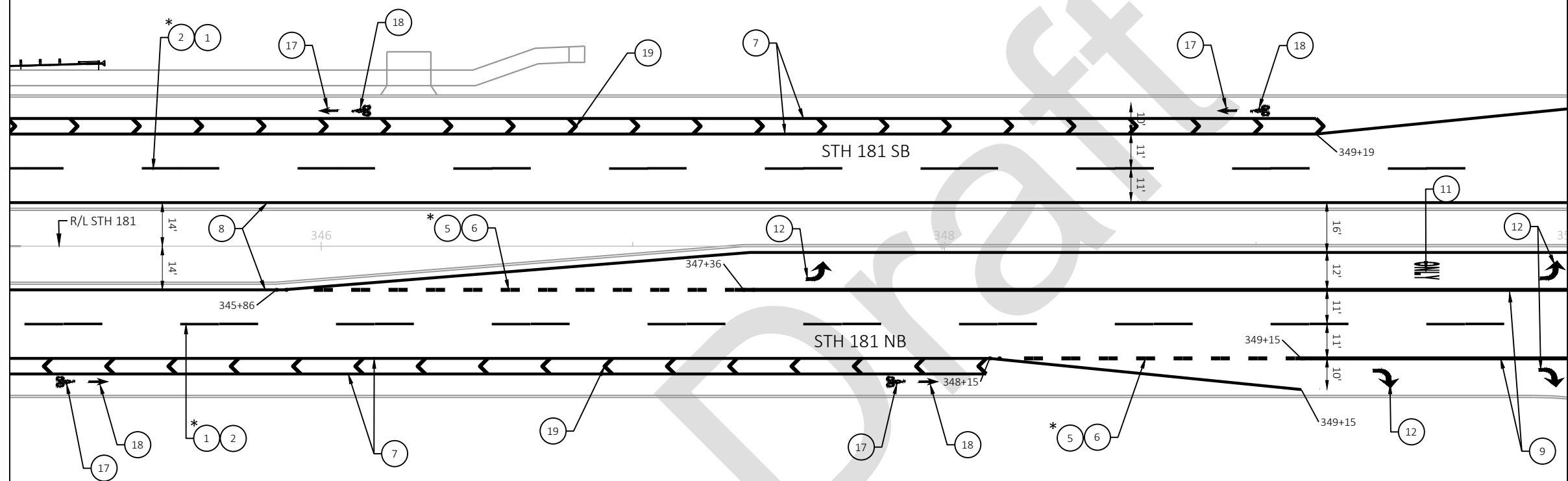
1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)	11 MARKING WORD EPOXY (WHITE)
2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)	12 MARKING ARROW EPOXY TYPE 2 (WHITE)
3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	13 MARKING CURB EPOXY (YELLOW)
4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	14 MARKING ISLAND NOSE EPOXY (YELLOW)
5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
7 MARKING LINE EPOXY 6-INCH (WHITE)	17 MARKING ARROWS (BIKE LANE ARROW)
8 MARKING LINE EPOXY 6-INCH (YELLOW)	18 MARKING SYMBOLS (BIKE LANE SYMBOL)
9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)	19 MARKING DIAGONAL 12-INCH (WHITE)
10 MARKING STOP LINE EPOXY 18-INCH (WHITE)	

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 350+00



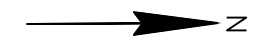
MATCH LINE 345+00

LEGEND

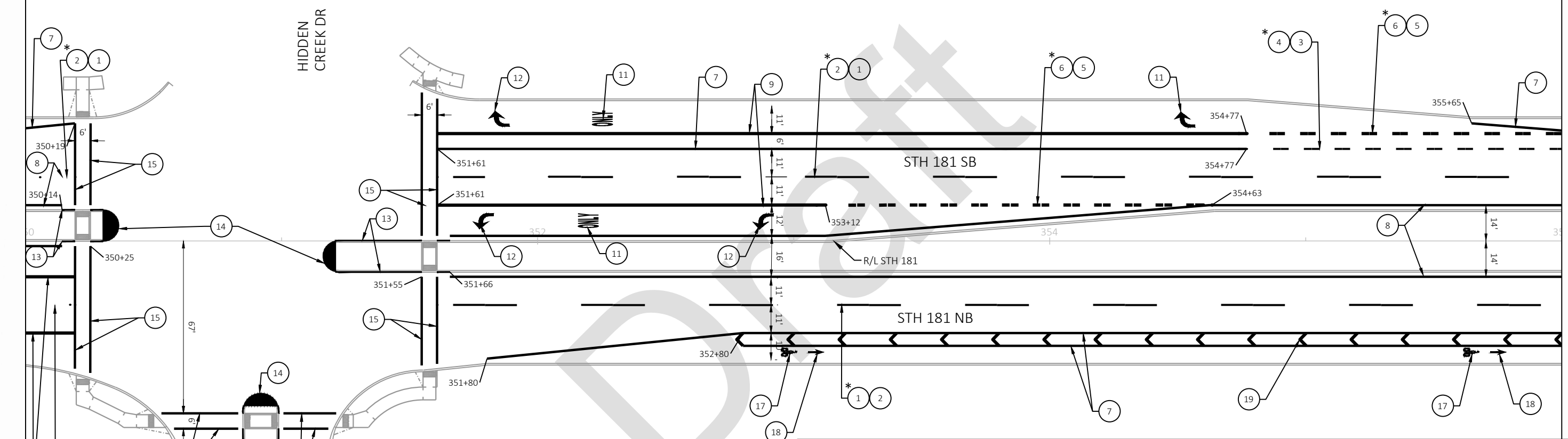
1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)	11 MARKING WORD EPOXY (WHITE)
2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)	12 MARKING ARROW EPOXY TYPE 2 (WHITE)
3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	13 MARKING CURB EPOXY (YELLOW)
4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	14 MARKING ISLAND NOSE EPOXY (YELLOW)
5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
7 MARKING LINE EPOXY 6-INCH (WHITE)	17 MARKING ARROWS (BIKE LANE ARROW)
8 MARKING LINE EPOXY 6-INCH (YELLOW)	18 MARKING SYMBOLS (BIKE LANE SYMBOL)
9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)	19 MARKING DIAGONAL 12-INCH (WHITE)
10 MARKING STOP LINE EPOXY 18-INCH (WHITE)	

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 356+00



LEGEND

1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)	11 MARKING WORD EPOXY (WHITE)
2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)	12 MARKING ARROW EPOXY TYPE 2 (WHITE)
3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	13 MARKING CURB EPOXY (YELLOW)
4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	14 MARKING ISLAND NOSE EPOXY (YELLOW)
5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
7 MARKING LINE EPOXY 6-INCH (WHITE)	17 MARKING ARROWS (BIKE LANE ARROW)
8 MARKING LINE EPOXY 6-INCH (YELLOW)	18 MARKING SYMBOLS (BIKE LANE SYMBOL)
9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)	19 MARKING DIAGONAL 12-INCH (WHITE)
10 MARKING STOP LINE EPOXY 18-INCH (WHITE)	

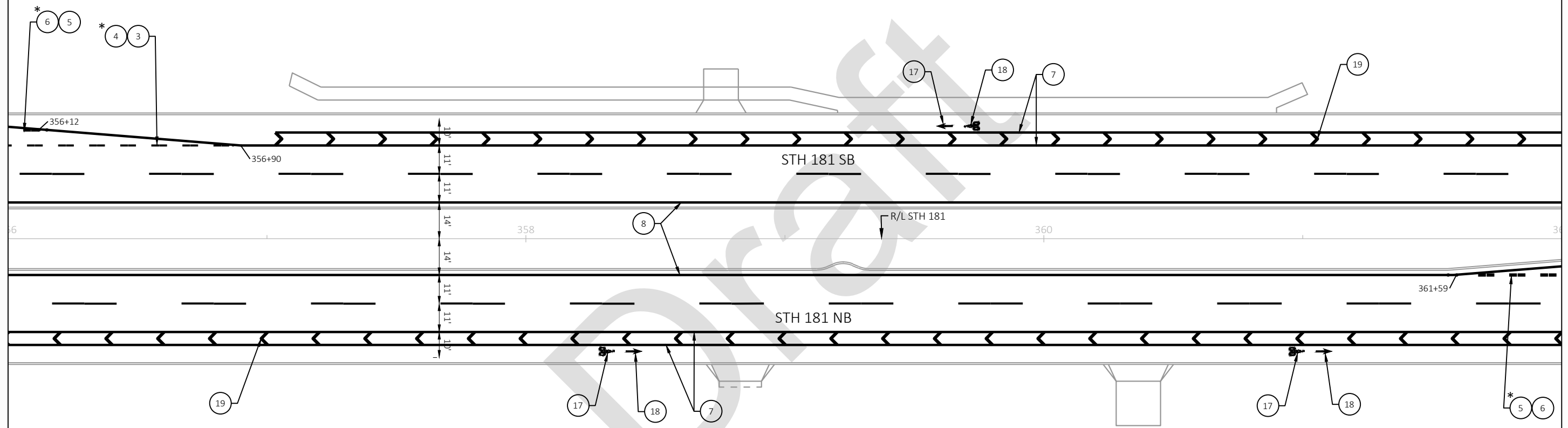
* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

Attachment: 2729-07-00 PM (draft 90%) (10471 : WisDOT STH181 from County Line to Mequon Road Pavement Marking)

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 362+00



MATCH LINE 356+00

LEGEND

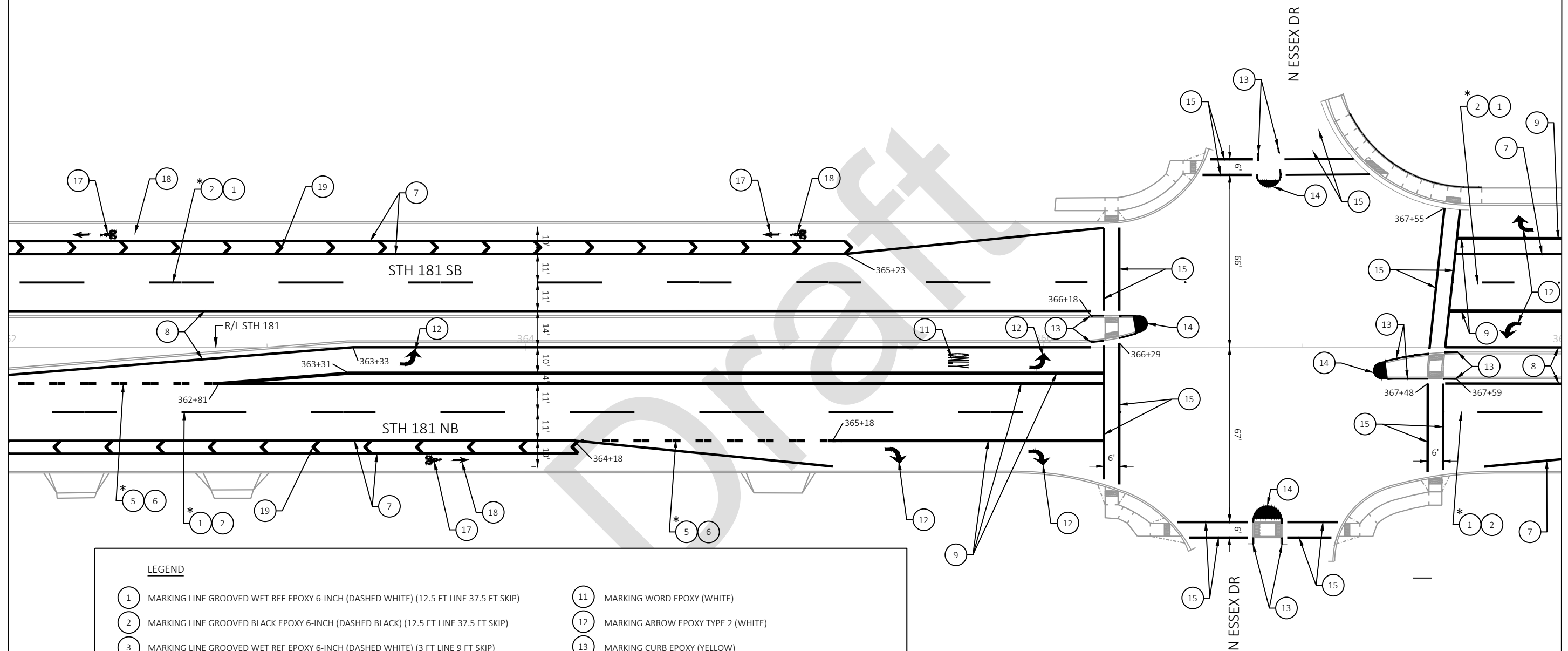
1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)	11 MARKING WORD EPOXY (WHITE)
2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)	12 MARKING ARROW EPOXY TYPE 2 (WHITE)
3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	13 MARKING CURB EPOXY (YELLOW)
4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	14 MARKING ISLAND NOSE EPOXY (YELLOW)
5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
7 MARKING LINE EPOXY 6-INCH (WHITE)	17 MARKING ARROWS (BIKE LANE ARROW)
8 MARKING LINE EPOXY 6-INCH (YELLOW)	18 MARKING SYMBOLS (BIKE LANE SYMBOL)
9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)	19 MARKING DIAGONAL 12-INCH (WHITE)
10 MARKING STOP LINE EPOXY 18-INCH (WHITE)	

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 368+00



LEGEND

- | | |
|--|---|
| 1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP) | 11 MARKING WORD EPOXY (WHITE) |
| 2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP) | 12 MARKING ARROW EPOXY TYPE 2 (WHITE) |
| 3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP) | 13 MARKING CURB EPOXY (YELLOW) |
| 4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 14 MARKING ISLAND NOSE EPOXY (YELLOW) |
| 5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP) | 15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) |
| 6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 16 MARKING YIELD LINE EPOXY 18-INCH (WHITE) |
| 7 MARKING LINE EPOXY 6-INCH (WHITE) | 17 MARKING ARROWS (BIKE LANE ARROW) |
| 8 MARKING LINE EPOXY 6-INCH (YELLOW) | 18 MARKING SYMBOLS (BIKE LANE SYMBOL) |
| 9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE) | 19 MARKING DIAGONAL 12-INCH (WHITE) |
| 10 MARKING STOP LINE EPOXY 18-INCH (WHITE) | |

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

PROJECT NO: 2729-07-70

HWY: STH 181

COUNTY: OZAUKEE

PAVEMENT MARKING

SHEET

E

FILE NAME : N:\PDS\C3D\27290700\SHEETSP\N\024501-PM.DWG
LAYOUT NAME - PM18

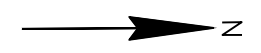
PLOT DATE : 6/2/2025 10:53 AM

PLOT BY : YANG, VANG NENG

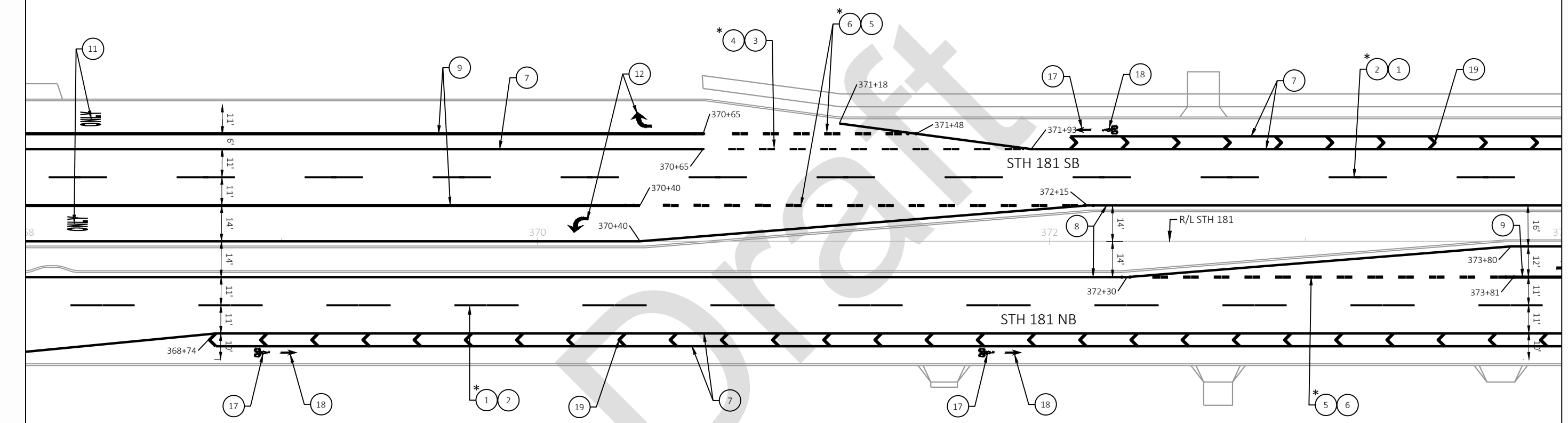
PLOT NAME :

PLOT SCALE : 1 IN=40 FT

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 374+00



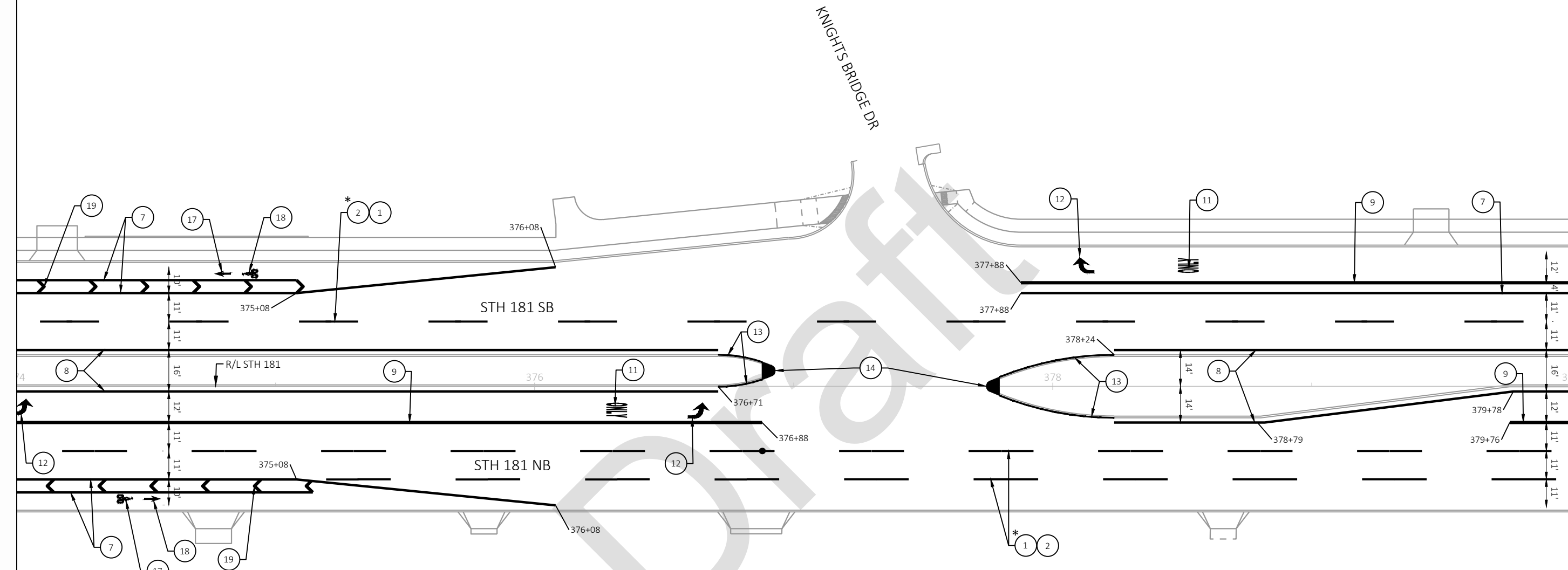
MATCH LINE 368+00

LEGEND

1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)	11 MARKING WORD EPOXY (WHITE)
2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)	12 MARKING ARROW EPOXY TYPE 2 (WHITE)
3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	13 MARKING CURB EPOXY (YELLOW)
4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	14 MARKING ISLAND NOSE EPOXY (YELLOW)
5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
7 MARKING LINE EPOXY 6-INCH (WHITE)	17 MARKING ARROWS (BIKE LANE ARROW)
8 MARKING LINE EPOXY 6-INCH (YELLOW)	18 MARKING SYMBOLS (BIKE LANE SYMBOL)
9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)	19 MARKING DIAGONAL 12-INCH (WHITE)
10 MARKING STOP LINE EPOXY 18-INCH (WHITE)	

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 374+00

MATCH LINE 380+00

LEGEND

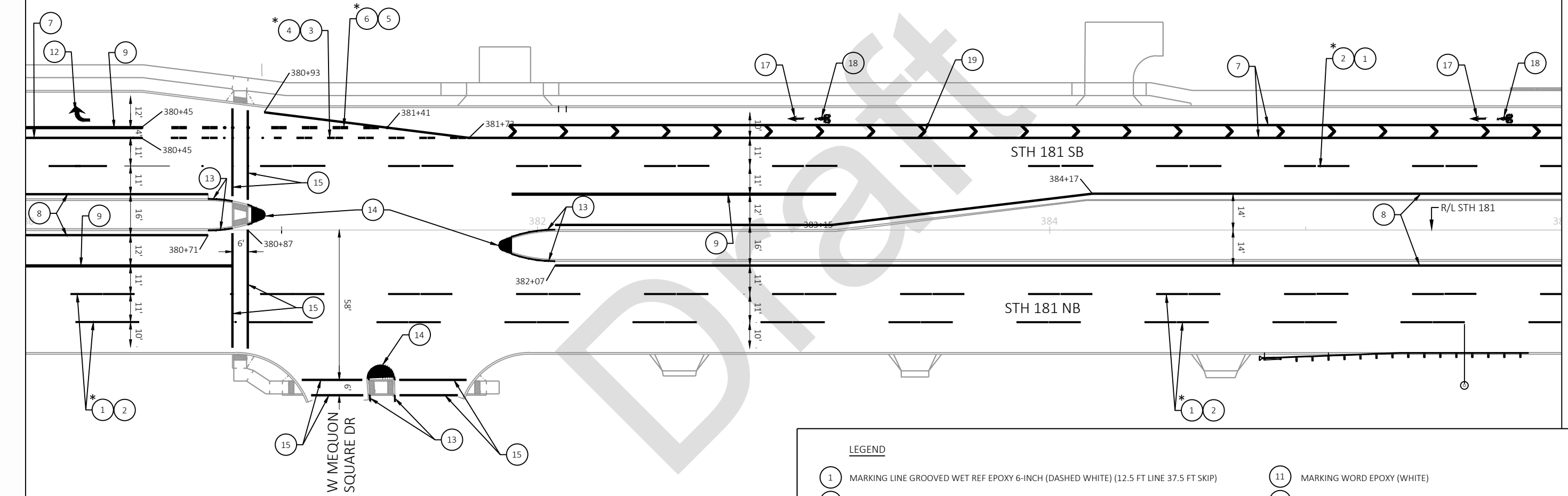
- | | |
|--|---|
| 1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP) | 11 MARKING WORD EPOXY (WHITE) |
| 2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP) | 12 MARKING ARROW EPOXY TYPE 2 (WHITE) |
| 3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP) | 13 MARKING CURB EPOXY (YELLOW) |
| 4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 14 MARKING ISLAND NOSE EPOXY (YELLOW) |
| 5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP) | 15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) |
| 6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 16 MARKING YIELD LINE EPOXY 18-INCH (WHITE) |
| 7 MARKING LINE EPOXY 6-INCH (WHITE) | 17 MARKING ARROWS (BIKE LANE ARROW) |
| 8 MARKING LINE EPOXY 6-INCH (YELLOW) | 18 MARKING SYMBOLS (BIKE LANE SYMBOL) |
| 9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE) | 19 MARKING DIAGONAL 12-INCH (WHITE) |
| 10 MARKING STOP LINE EPOXY 18-INCH (WHITE) | |

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



MATCH LINE 386+00



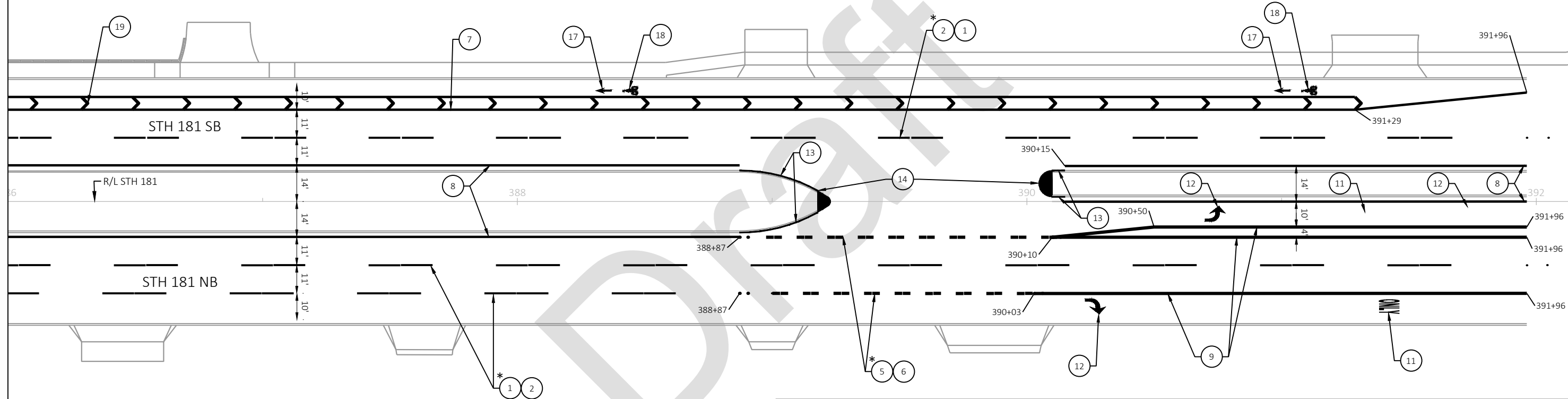
MATCH LINE 380+00

LEGEND

1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)	11 MARKING WORD EPOXY (WHITE)
2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP)	12 MARKING ARROW EPOXY TYPE 2 (WHITE)
3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	13 MARKING CURB EPOXY (YELLOW)
4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	14 MARKING ISLAND NOSE EPOXY (YELLOW)
5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)	15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP)	16 MARKING YIELD LINE EPOXY 18-INCH (WHITE)
7 MARKING LINE EPOXY 6-INCH (WHITE)	17 MARKING ARROWS (BIKE LANE ARROW)
8 MARKING LINE EPOXY 6-INCH (YELLOW)	18 MARKING SYMBOLS (BIKE LANE SYMBOL)
9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE)	19 MARKING DIAGONAL 12-INCH (WHITE)
10 MARKING STOP LINE EPOXY 18-INCH (WHITE)	

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

NOTE: PROPOSED LINEWORK IS SCREENED FOR CLARITY



LEGEND

- | | |
|--|---|
| 1 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP) | 11 MARKING WORD EPOXY (WHITE) |
| 2 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (12.5 FT LINE 37.5 FT SKIP) | 12 MARKING ARROW EPOXY TYPE 2 (WHITE) |
| 3 MARKING LINE GROOVED WET REF EPOXY 6-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP) | 13 MARKING CURB EPOXY (YELLOW) |
| 4 MARKING LINE GROOVED BLACK EPOXY 6-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 14 MARKING ISLAND NOSE EPOXY (YELLOW) |
| 5 MARKING LINE GROOVED WET REF EPOXY 10-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP) | 15 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) |
| 6 MARKING LINE GROOVED BLACK EPOXY 10-INCH (DASHED BLACK) (3 FT LINE 9 FT SKIP) | 16 MARKING YIELD LINE EPOXY 18-INCH (WHITE) |
| 7 MARKING LINE EPOXY 6-INCH (WHITE) | 17 MARKING ARROWS (BIKE LANE ARROW) |
| 8 MARKING LINE EPOXY 6-INCH (YELLOW) | 18 MARKING SYMBOLS (BIKE LANE SYMBOL) |
| 9 MARKING LINE GROOVED WET REF CONTRAST EPOXY 10-INCH (WHITE) | 19 MARKING DIAGONAL 12-INCH (WHITE) |
| 10 MARKING STOP LINE EPOXY 18-INCH (WHITE) | |

* SEE "PERMANENT LONGITUDINAL PAVEMENT MARKINGS" STANDARD DETAIL DRAWING

MATCH LINE 386+00

Attachment: 2729-07-00 PM (draft 90%) (10471 : WisDOT STH181 from County Line to Mequon Road Pavement Marking)