LAX

OCTOBER 2024

PROJECT ID: 5634-00-61

WITH: N/A

COUNTY: MONROE

ORDER OF SHEETS

TOTAL SHEETS = 14

04

N

DESIGN DESIGNATION

			STH 16	STH 131
A.A.D.T.	(2017)	=	1800	1500
A.A.D.T.	(2037)	=	2200	1800
D.H.V.		=	1030	1080
D.D.		=	60/40	60/40
T.		=	11%	8.3
DESIGN SPEED		=	55	55
ESALS		=	1,000,000	650,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5634-00-61	WISC 2025003	1

SWR, MONROE COUNTY CURVES HFST

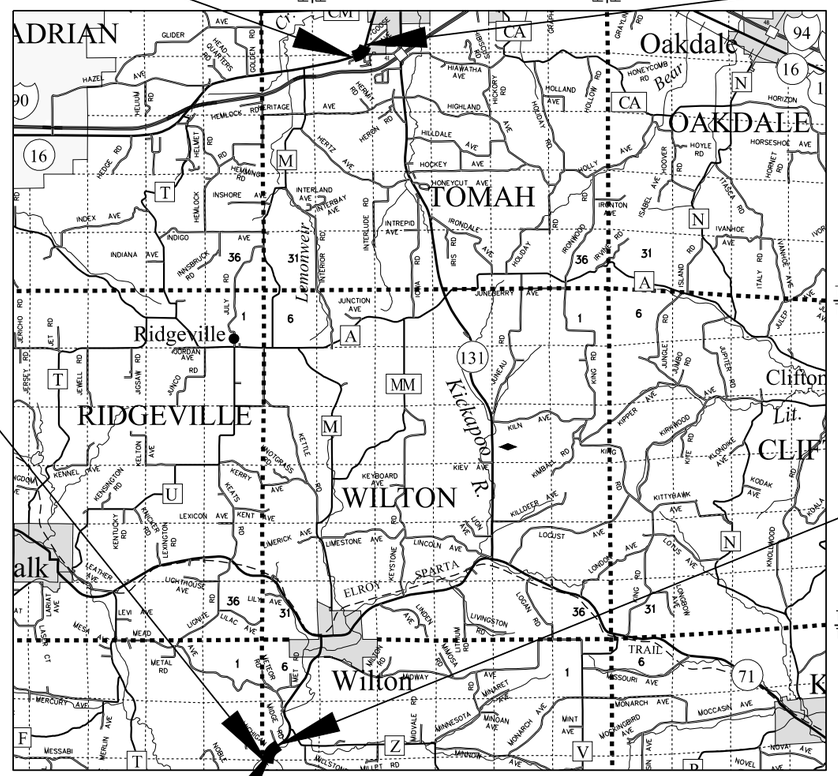
STH 16, STH 131

STH 16 & STH 131
MONROE COUNTY

STATE PROJECT NUMBER
5634-00-61

BEGIN PROJECT
STA 465+00
Y=702796.938
X=384308.896

END PROJECT
STA 479+20
Y= 703824.067
X= 385180.858



BEGIN PROJECT
STA 379+00
Y= 695051.209
X=320246.083

END PROJECT
STA 394+65
Y= 695721.073
X=322103.846

STRUCTURE
B-41-176
STA 386+52.53

LAYOUT
SCALE 0 2.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.560 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MONROE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISCONSIN DOT
Designer	MATT REYNOLDS
Project Manager	JERED LEX
Regional Examiner	SW REGION
Regional Supervisor	DAN KLEINERTZ

APPROVED FOR THE DEPARTMENT

DATE: _____ Jered Lex (Signature)

E

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES WITHIN THE AREA IF ANY GROUND DISTURBING ACTIVITIES OCCUR. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CONTACTS

WISDOT PROJECT MANAGER:
STATE OF WISCONSIN
SOUTHWEST REGION OFFICE
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
ATTN: JERED LEX
PH: (608) 785-9956
E-MAIL: jered.lex@dot.wi.gov

WDNR LIASON:
STATE OF WISCONSIN
WDNR SOUTHWEST REGION SERVICE CENTER
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
ATTN:KAREN KALVELAGE
PH: (608) 785-9115
E-MAIL: karen.kalvelage@wisconsin.gov

DESIGN CONTACT
STATE OF WISCONSIN
WISDOT SOUTHWEST REGION OFFICE
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
ATTN: MATT REYNOLDS
PH: (608) 785-9028
E-MAIL: matthewj.reynolds@dot.wi.gov

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

UTILITIES

ELECTRICITY

ALLIANT ENERGY
ATTN: PETER FRITZ
528 INDUSTRIAL DRIVE
TOMAH, WI 54660
PHONE: 608-963-5676
EMAIL: peterfritz@Alliantenergy.com

GAS/ PETROLEUM

WE ENERGIES
ATTN: TRAVIS KAHL
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
PHONE:715-421-7256, 715-498-6180
EMAIL:travis.kahl@we-energies.com

COMMUNICATION LINES

SPECTRUM COMMUNICATION
ATTN: PERRY McCLELLAN
1228 12TH AVENUE SOUTH
P.O. BOX 279
ONALASKA, WI 54650
PH: 608-317-6213
EMAIL: perry.mcclellan@charter.com

BRIGHTSPEED - MIDWEST WI
ATTN: TOM L. MURRAY
1905 WARD AVE
LA CROSSE, WI 54601
PH: 608-780-0895
EMAIL: Tom.L.Murray@Brightspeed.com

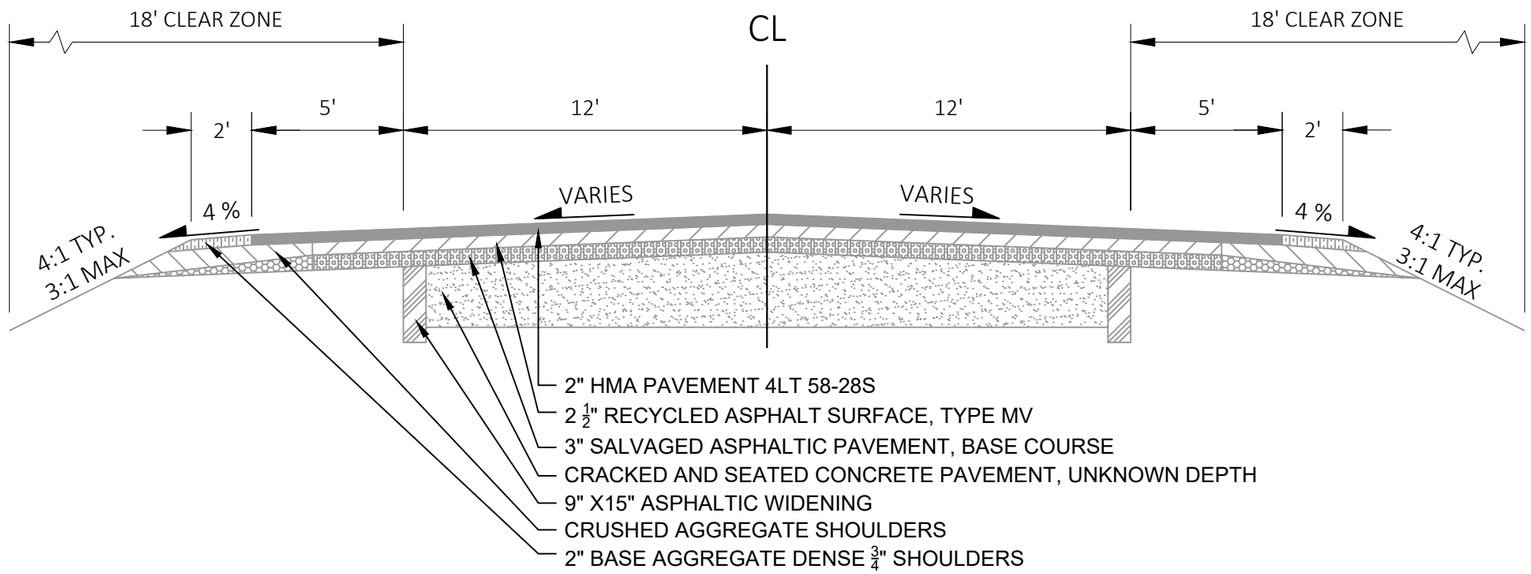
BRIGHTSPEED - WESTERN WI
ATTN: TOM L. MURRAY
1905 WARD AVE
LA CROSSE, WI 54601
PH: 608-780-0895
EMAIL: Tom.L.Murray@Brightspeed.com

Standard Abreviations

A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC
BAD	BASE AGGREGATE DENSE
C/L	CENTER LINE
CDD	CONSTRUCTION DETAIL DRAWING
D	DEGREE OF CURVE
F.E.	FIELD ENTRANCE
FT	FOOT
N	NORTH
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
POC	POINT ON CURVE
POT	POINT ON TANGENT
P.E.	PRIVATE ENTRANCE
RD	ROAD
SDD	STANDARD DETAIL DRAWING
STH	STATE TRUNK HIGHWAY
STA	STATION
T	TANGENT
TYP	TYPICAL
VAR	VARIABLE

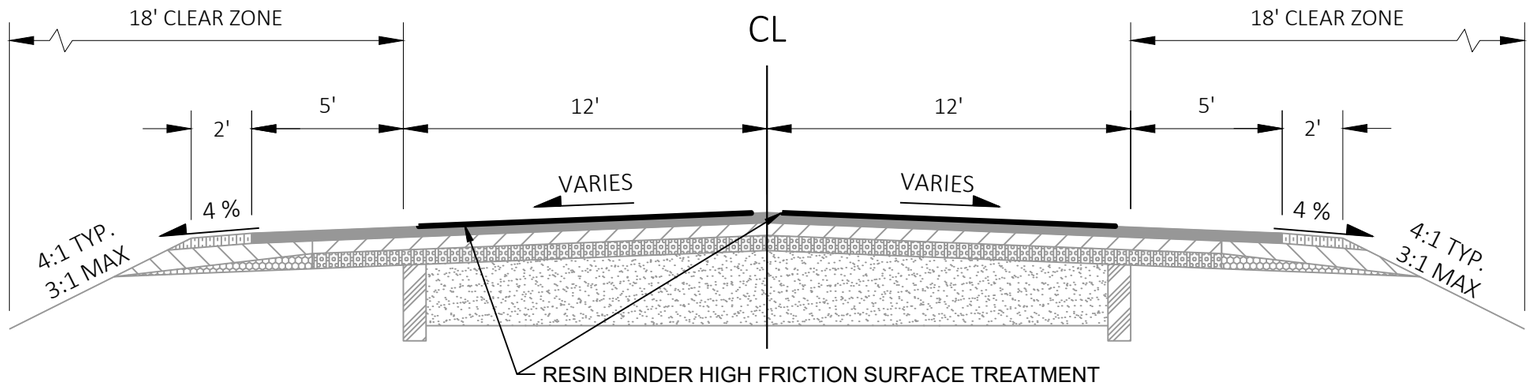
ORDER OF DETAIL SHEETS

GENERAL NOTES
TYPICAL SECTIONS
CONSTRUCTION DETAILS



STH 16 EXISTING TYPICAL SECTION

STA 465+00 - 479+20



STH 16 PROPOSED TYPICAL SECTION

STA 465+00 - 479+20

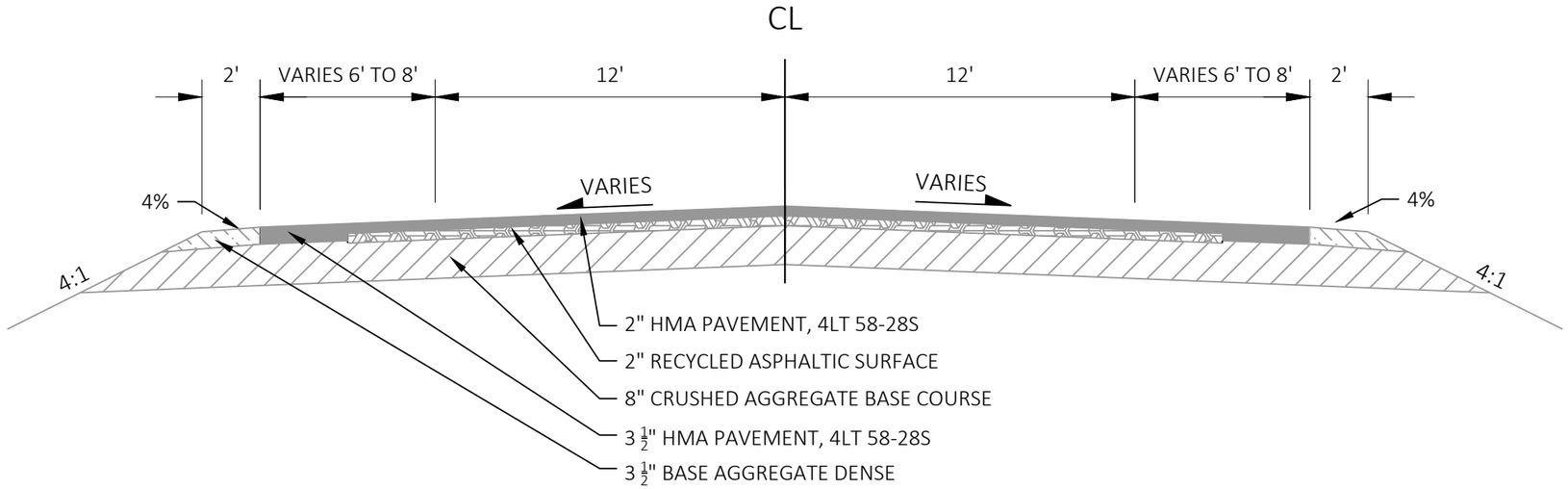
PROJECT NO: 5634-00-61	HWY: STH 16	COUNTY: MONROE	TYPICAL SECTIONS	SHEET 3	E

FILE NAME : N:\PDS\C3D\56340031\SHEETS\020301-TS1.DWG
LAYOUT NAME - 01-5ft

PLOT DATE : 4/2/2024 10:37 AM PLOT BY : REYNOLDS, MATTHEW J PLOT NAME : PLOT SCALE : 1 IN:5 FT

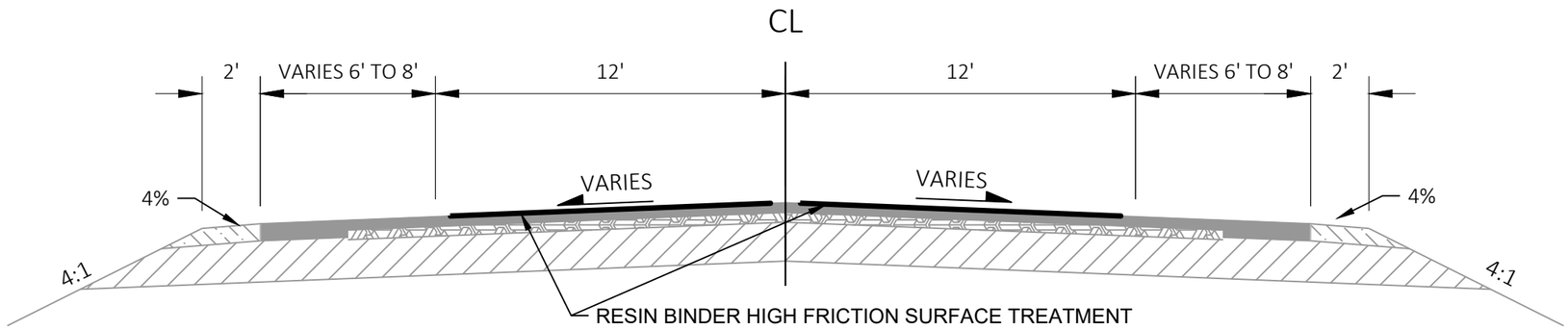
WISDOT/CADDS SHEET 42

2



STH 131 EXISTING TYPICAL SECTION

STA 379+00 - 394+65



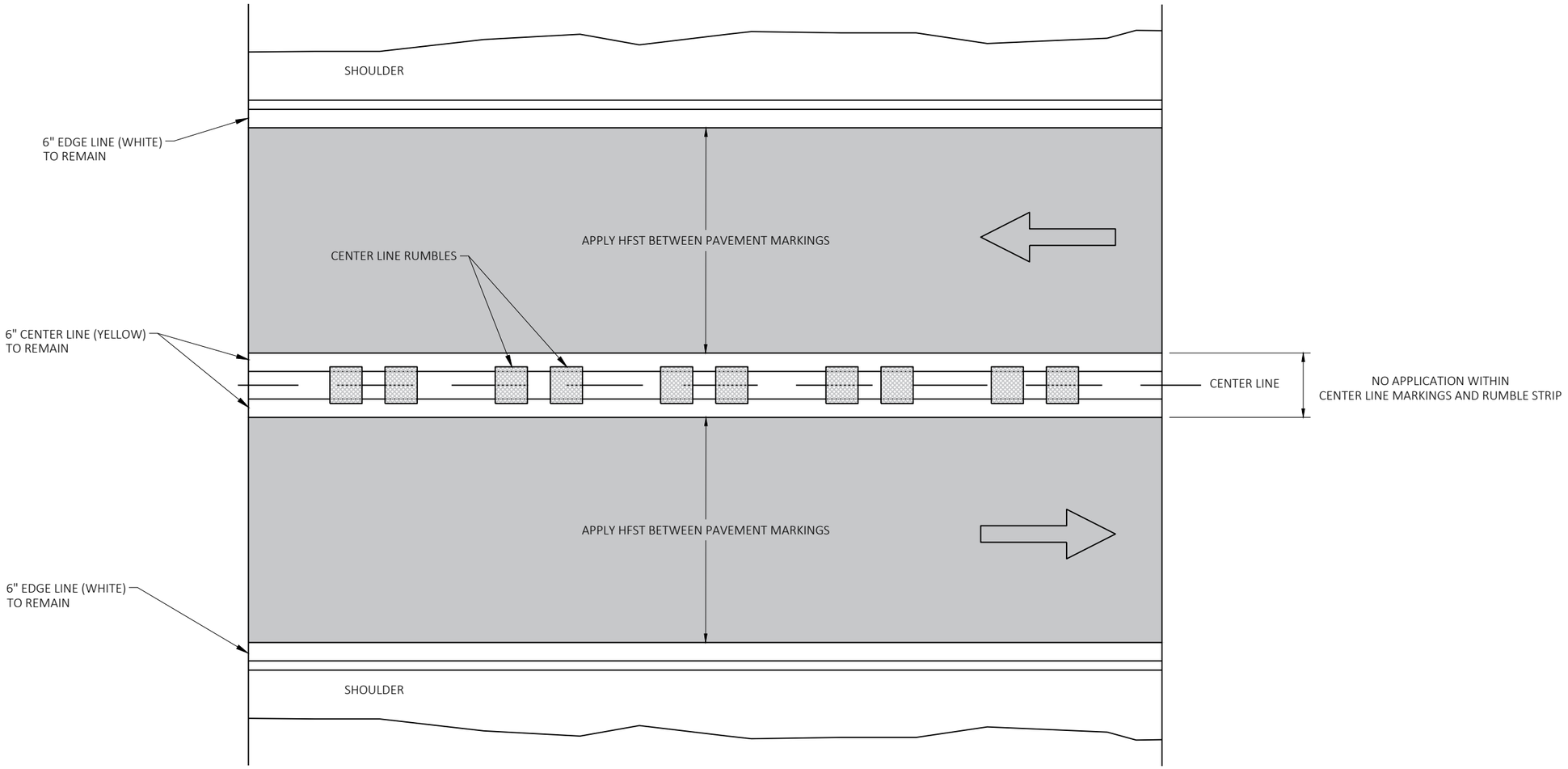
STH 131 PROPOSED TYPICAL SECTION

STA 379+00 - 394+65

PROJECT NO: 5634-00-61	HWY: STH 131	COUNTY: MONROE	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : N:\PDS\C3D\56340031\SHEETS\020301-TS.DWG
LAYOUT NAME - 02-5ft
PLOT DATE : 3/6/2024 2:32 PM
PLOT BY : REYNOLDS, MATTHEW J
PLOT NAME :
PLOT SCALE : 1 IN:5 FT
WISDOT/CADDS SHEET 42

2



RESIN BINDER HIGH FRICTION SURFACE TREATMENT (HFST)

Estimate Of Quantities

5634-00-61

Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 5634-00-61	EACH	1.000	1.000
0004	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5634-00-61	EACH	1.000	1.000
0006	619.1000	Mobilization	EACH	1.000	1.000
0008	643.0900	Traffic Control Signs	DAY	252.000	252.000
0010	643.1050	Traffic Control Signs PCMS	DAY	12.000	12.000
0012	643.5000	Traffic Control	EACH	1.000	1.000
0014	SPV.0180	Special 01. Resin Binder High Friction Surface Treatment	SY	7,003.000	7,003.000
0016	SPV.0180	Special 02. High Friction Surface Treatment Polymer Overlay	SY	534.000	534.000

3

TRAFFIC CONTROL ITEMS

LOCATION	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	DAYS ANTICIPATED	REMARKS
STH 16	96	-	12	-
STH 131	96	-	12	-
STH 16	-	6	3	PLACE 3 DAYS PRIOR TO CONSTRUCTION
STH 131	-	6	3	PLACE 3 DAYS PRIOR TO CONSTRUCTION
GOOSE AVE	12	-	12	-
GOPHER AVE	12	-	12	-
HENNEPIN RD	12	-	12	-
MICHIGAN RD	12	-	12	-
MIDGE RD	12	-	12	-
TOTAL =	252	12		

RESIN BINDER HIGH FRICTION SURFACE TREATMENT

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.01 RESIN BINDER HIGH FRICTION SURFACE TREATMENT SY
0010	465+00	-	479+20	STH 16	3,471
0010	379+00	-	386+53	STH 131	1,840
0010	387+73	-	394+65	STH 131	1,692
				TOTAL 0010	7,003

3

FOR TRAFFIC CONTROL SEE STANDARD DETAIL DRAWING:
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER
UNDIVIDED ROAD OPEN TO TRAFFIC

SEE CONSTRUCTION DETAIL DRAWING FOR HFST APPLICATION WIDTHS

THREE DAYS PRIOR TO PROJECT CONSTRUCTION, PLACE TWO PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) ON EACH SEGMENT OF THE PROJECT, WITH ONE AT EACH ENG, NOTIFYING MOTORISTS OF UPCOMING WORK. MESSAGE SHALL READ AS FOLLOWS:

ROADWORK
STARTING
XX/XX/XX

APPLICATION WITHIN BYPASS LANE SHOULD MAINTAIN CONSISTENT WIDTH

PI STA = 473+99.11
Y = 384573.903
X = 703655.964
DELTA = 57°22'46" LT
D = 4°59'59"
T = 627.15'
L = 1147.68'
R = 1146.00'
PC STA = 467+71.96
Y = 384389.064
X = 703056.670
PT STA = 479+19.64
Y = 385178.305
X = 703823.344
DB = N72°51'32"E
DA = N15°28'45"E

5

5

PROJECT NO: 5634-00-61	HWY: STH 16	COUNTY: MONROE	PLAN SHEET	SHEET 8 E

FILE NAME : N:\PDS\C3D\56340031\SHEETS\050201-PN.DWG
LAYOUT NAME - Plan 1 IN 100 FT
PLOT DATE : 3/6/2024 2:37 PM
PLOT BY : REYNOLDS, MATTHEW J
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

PI STA = 387+45.38
Y = 321597.016
X = 695033.736
DELTA = 54°46'13" RT
D = 3°29'14"
T = 851.11'
L = 1570.58'
R = 1643.00'
PC STA = 378+94.27
Y = 320746.086
X = 695051.203
PT STA = 394+64.85
Y = 322102.149
X = 695718.739
DB = N01°10'33"W
DA = N53°35'40"E

SEE CONSTRUCTION DETAIL DRAWING FOR HFST APPLICATION WIDTHS

PROJECT NO: 5634-00-61	HWY: STH 131	COUNTY: MONROE	PLAN SHEET	SHEET 9	E

Standard Detail Drawing List

15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER UNDIVIDED NON-FREEWAY/EXPRESSWAY
15C12-9A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

6

6

GENERAL NOTES

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

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

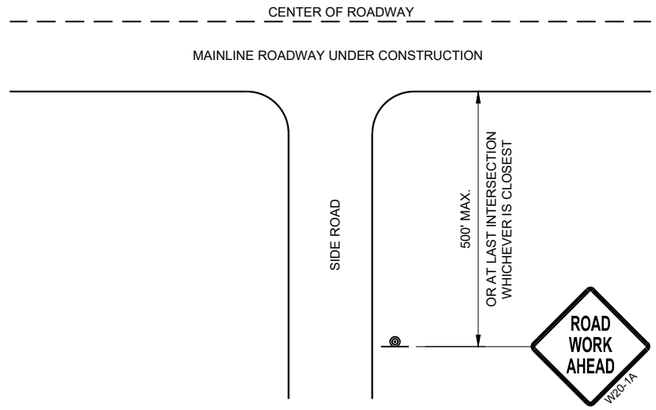
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



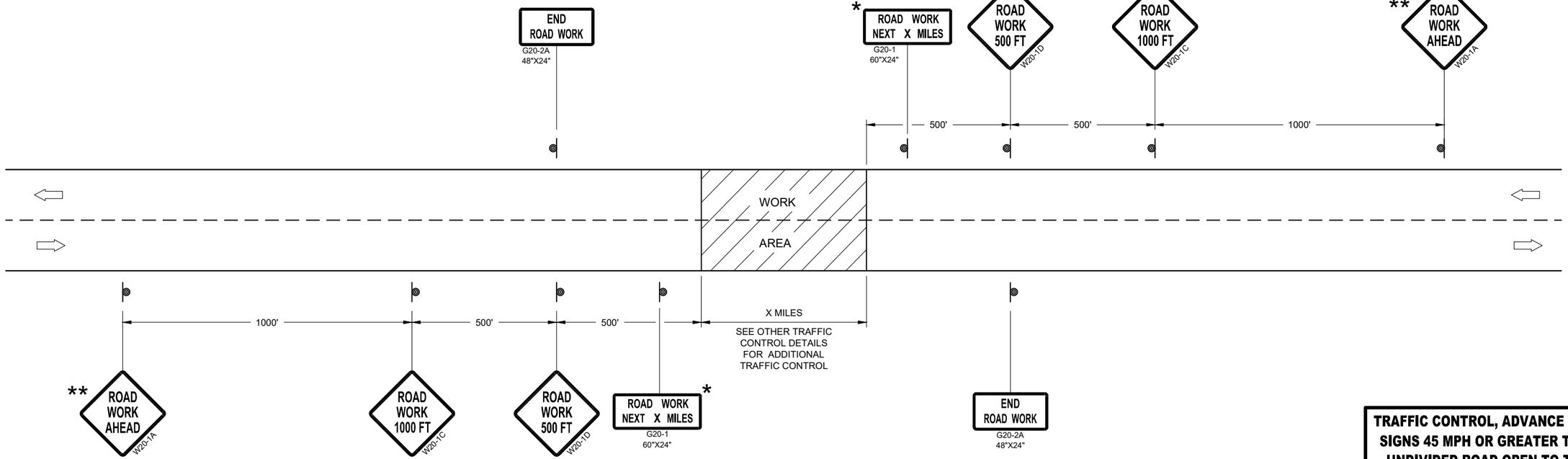
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

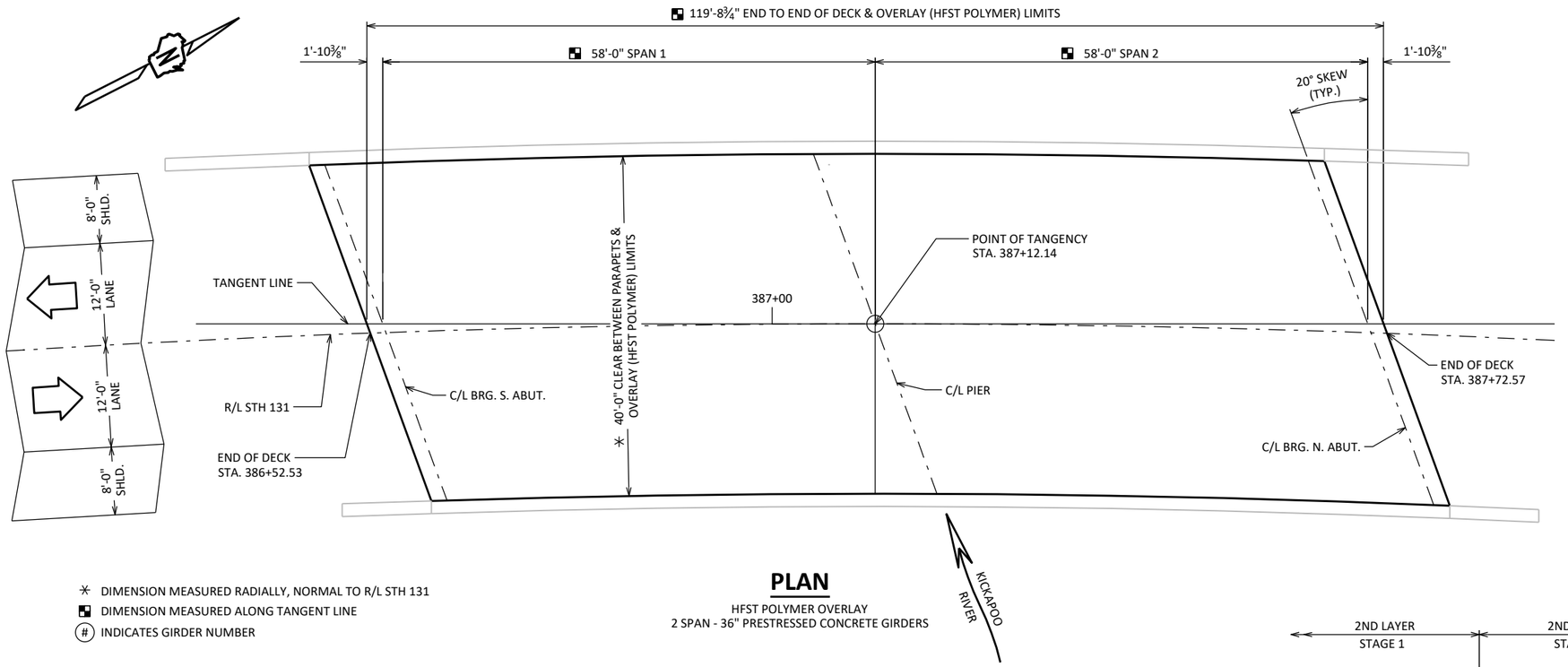
FHWA

6

SDD 15C04 - 05

STATE PROJECT NUMBER

5634-00-61



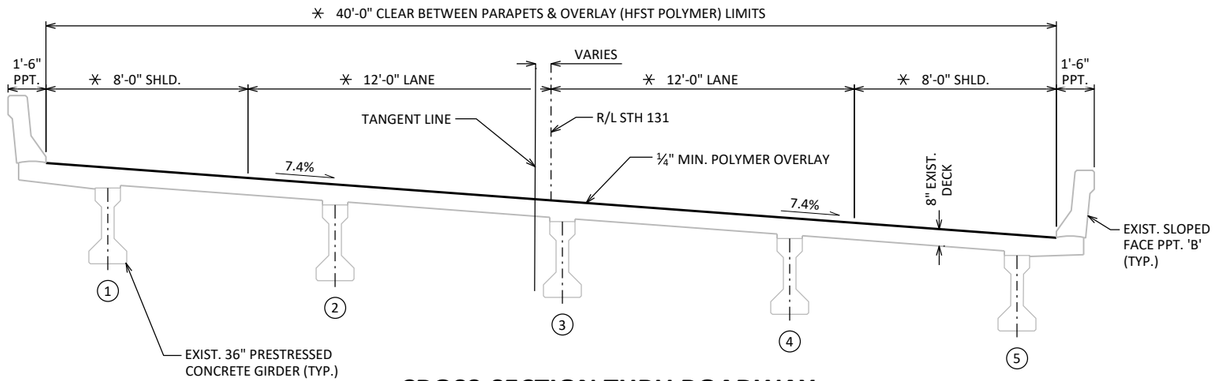
✳ DIMENSION MEASURED RADIALLY, NORMAL TO R/L STH 131

■ DIMENSION MEASURED ALONG TANGENT LINE

(#) INDICATES GIRDER NUMBER

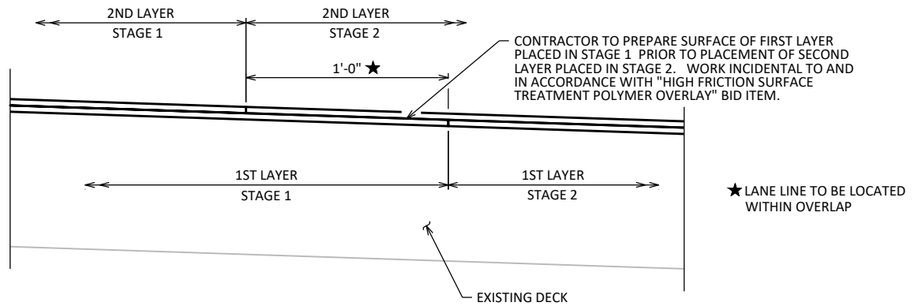
PLAN

HFST POLYMER OVERLAY
2 SPAN - 36" PRESTRESSED CONCRETE GIRDERS



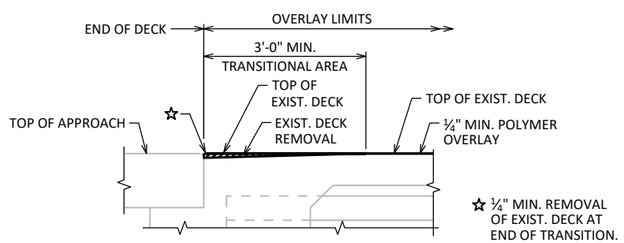
CROSS-SECTION THRU ROADWAY

LOOKING NORTH



POLYMER OVERLAY JOINT TRANSITION DETAIL

LONGITUDINAL SECTION SHOWN (TRANSVERSE SECTION SIMILAR)
USE WHEN OVERLAY PLACED IN STAGES



SECTION THRU ABUTMENT TRANSITIONAL AREA AT END OF DECK

(REMOVAL AND OVERLAY THICKNESS NOT TO SCALE)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY".

STAGING FOR CONSTRUCTION TO BE DETERMINED BY CONTRACTOR BASED ON PROVIDED ALLOWABLE LANE CLOSURE TIMES & INFORMATION. ALL OPTIONAL LONGIT. CONST. JOINTS USED SHALL BE OVERLAPPED BY 1-FOOT, AS SHOWN IN THE PLAN DETAILS, WITH THE LANE LINE FALLING WITHIN THE OVERLAP.

BRIDGE DECK OVERLAY TRANSITIONAL AREA AT END OF DECK SHALL BE UTILIZED TO MAINTAIN UNIFORM RIDING SURFACE TRANSITION TO PROPOSED TOP OF ROADWAY APPROACH. DO NOT APPLY OVERLAY DIRECTLY TO JOINT AT END OF DECK.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-16
OPERATING RATING: HS-27
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 190 (KIPS)

TRAFFIC DATA

STH 131:
ADT = 1,400 (2023)
R.D.S. = 60 MPH

CURVE DATA

STH 131
P.I. = 387+45.38
Δ = 54°46'13" RT
D = 3°29'14"
T = 851.11'
L = 1570.58'
R = 1643.00'
S.E. = 7.4%
P.C. = 378+94.27
P.T. = 394+64.85

LIST OF DRAWINGS:

1. POLYMER OVERLAY

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
SPV.0180	HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY	SY	534

STRUCTURE DESIGN CONTACTS:

CHRIS KUSIAK 608-267-3619
KYLE BUSCH 608-267-0465

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED KHB 6/28/24
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-41-176

STH 131 OVER KICKAPOO RIVER

COUNTY: MONROE | TOWN: WELLINGTON

DESIGN SPEC.
REHABILITATION - N/A

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
CJK	VS	CJK	VS

POLYMER OVERLAY

SHEET 1 OF 1
12

I.D. 5634-00-31A

DATE: FEB. 2024

8

8

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov