STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2250-15-70		

WASHINGTON AVE. - VILLAGE OF MOUNT PLEASANT

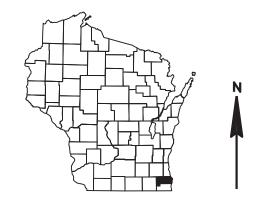
OAKES RD - STH 31

STH 20 RACINE COUNTY

> STATE PROJECT NUMBER 2250-15-70

l**e**don1a

APPROVED FOR DESIGN OF UTILITY ADJUSTMENTS 3/1/2022



Typical Sections and Details

Estimate of Quantities

Right of Way Plat

Plan and Profile

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

DESIGN DESIGNATION

ORDER OF SHEETS

Section No.

Section No.

Section No.

Section No. Section No.

Section No.

Section No. Section No.

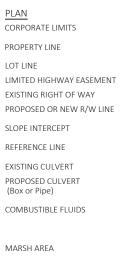
Section No.

Section No.

TOTAL SHEETS =

AADT 2024 = 40 500 A.A.D.T. 2044 = 44,800 = 4,750 D.H.V. D.D. = 59/41 = 8.5% DESIGN SPEED = 35 - 45 MPH = 3,500,000

CONVENTIONAL SYMBOLS



WOODED OR SHRUB AREA



TELEPHONE POLE

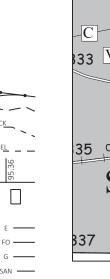
STRUCTURE C-51-018 STA 326+68

BEGIN PROJECT

X=615,822,953

Y=183.064.641

STA 314+45



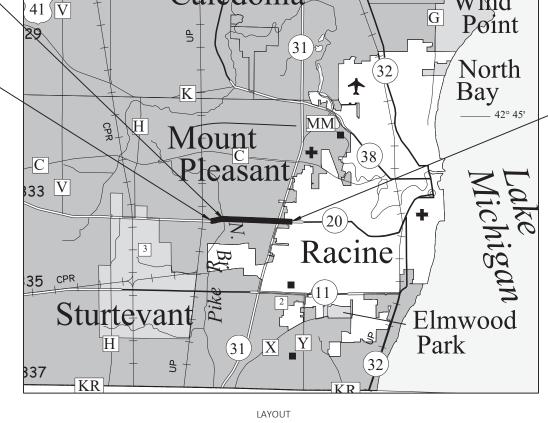
Ø

R-22-E

Н

41

94



END PROJECT STA 397+50 X=624.099.983 Y=182,979.285

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), RACINE COUNTY, NAD83 (2007) 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 (2007), GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY WISDOT Surveyor Designer Project Manage

Ε

PPROVED FOR THE DEPARTMENT

(Signature)

FILE NAME: \\WKERTOVFILPI01.DOT.STATE.WI.US\N3PUBLIC\PDS\C3D\22501500\SHEETSPLAN\010101_TI.DWG

1/20/2022 8:47 AM

TOTAL NET LENGTH OF CENTERLINE = 1.573 MI

SCALE I

SKIFFINGTON, NICHOLA

R-23-E

Wind

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND

VERIEY EXISTING PAVEMENT FLEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.

CONSTRUCT PAVEMENT CONSISTENT WITH THE PLAN TYPICAL SECTIONS. LOCATE LONGITUDINAL JOINTS IN ASPHALT PAVEMENT OUTSIDE OF DRIVING, TURNING, BIKE OR PARKING LANES UNLESS DIRECTED OTHERWISE BY THE ENGINEER. OBTAIN THE ENGINEERS APPROVAL FOR THE LOCATIONS OF JOINTS IN ASPHALT PAVEMENT PRIOR TO PAVING OPERATIONS.

SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

CONSTRUCT INSIDE EDGE OF SIDEWALK $\frac{1}{2}$ INCH HIGHER THAN TOP OF CURB WHEN THEY ARE ADJACENT TO EACH OTHER.

PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD OR MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER

RESHAPE, RESTORE AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT

TRAFFIC AND EROSION CONTROL ITEMS AS SHOWN IN THE PLAN ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT THE APPROVAL OF THE ENGINEER

THE CONTRACTOR SHALL PLACE RING(S) AT REFERENCE AND/OR SECTION CORNER MONUMENTS DURING HMA PAVING OPERATIONS TO PERPETUATE THE MONUMENTS. THE RING(S) WILL BE REUSED FROM EXISTING MONUMENTS OR SUPPLIED BY THE CONTRACTOR. RING INSTALLATION SHALL BE INCIDENTAL

CONTACT THE PROJECT ENGINEER. THE COUNTY SURVEYOR, AND SEWRPC AT LEAST TWO WEEKS BEFORE WORKING NEAR ANY SECTION CORNER MONUMENT.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE AND MULCH TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MOR THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS, AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND BUSINESSES AT ALL TIMES.

4" HMA PAVING: $2\frac{1}{4}$ " LOWER LAYER 3 MT 58-28 S

1³" UPPER LAYER 4 MT 58-28 S

COMMUNICATIONS

AT&T LOCAL NETWORK DALE DEFEVER 39869 LINN ST CANTON, MI 48147 PHONE: (586) 242-2671 EMAIL: DD2579@ATT.COM

COMMUNICATIONS COMMUNICATIONS

WINDSTREAM KDL, LLC MIDWEST FIBER NETWORKS LLC. LORI KETTER RICHARD TRGOVEC 314 N DANZ AVE GREEN BAY, WI 54302-3526 PHONE: (414) 274-9215 EMAIL: LORI.KETTER@WINDSTREAM.COM

COMMUNICATIONS

PAETEC COMMUNICATIONS, LLC LORI KETTER 314 N DANZ AVE GREEN BAY, WI 54302-3526 PHONE: (414) 274-9215 EMAIL: LORI.KETTER@WINDSTREAM.COM

COMMUNICATIONS

SPECTRUM DAVE YOPPS 1320 N DR MARTIN LUTHER KING JR DR MII WAUKFF, WI 53212 PHONE: (414) 277-4281 EMAIL: DAVE.YOPPS@CHARTER.COM

WISCONSIN SIGNAL

2/1/2022 8:49 AM

WISCONSIN DEPARTMENT OF TRANSPORTATION DERRIN WOLFORD 141 NW BARSTOW STREET WAUKESHA, WI 53188 PHONE: (262) 521-4409 EMAIL: DERRIN.WOLFORD@DOT.WI.GOV

COMMUNICATIONS

MIKE VANBOVEN

411 7TH STREET

RACINE, WI 53403

PHONE: (262) 676-3958

EMAIL: MV3658@ATT.COM

AT&T WISCONSIN

6070 NORTH FLINT RD GLENDALE, WI 53209 PHONF: (414) 459-3554

EMAIL: RTRGOVEC@MIDWESTFIBERNETWORKS.COM

RACINE WASTEWATER UTILITY MIKE GITTER 800 CENTER ST. RACINE, WI 53403 PHONE: (262) 636-9430 EMAIL: MIKE.GITTER@CITYOFRACINE.ORG

SEWER

SEWER

VILLAGE OF MOUNT PLEASANT TONY BEYER 8811 CAMPUS DR MOUNT PLEASANT, WI 53406 PHONE: (262) 664-7849 EMAIL: TBEYER@MTPLEASANTWI.GOV

ELECTRICITY

SKIFFINGTON, NICHOLA

WE ENERGIES UTILITY COORDINATOR 500 S 116TH STREET WEST ALLIS, WI 53214 PHONE: (414) 221-2738 EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

ELECTRICITY-TRANSMISSION

ATC MANAGEMENT, INC. TRANS 220 MAILBOX 801 O'KEEFE ROAD DE PERE, WI 54115 PHONE: (920) 338-6582 EMAIL: DL-ATCDOTNOTIFICATIONS@ATCLLC.COM

SEWER

MOUNT PLEASANT STORM WATER DIST. 1 TONY BEYER 8811 CAMPUS DR MOUNT PLEASANT, WI 53406 PHONE: (262) 664-7849 EMAIL: TBEYER@MTPLEASANTWI.GOV

WATER

RACINE WATER WORKS COMMISSION MIKE GITTER 800 CENTER ST. RACINE, WI 53403 PHONE: (262) 636-9430 EMAIL: MIKE.GITTER@CITYOFRACINE.ORG

STREET LIGHTING

WISCONSIN DEPARTMENT OF TRANSPORTATION ERIC PEREA 141 NW BARSTOW STREET WAUKESHA, WI 53188 PHONE: (262) 574-5422 EMAIL: ERIC.PEREA@DOT.WI.GOV

GAS/PETROLEUM

WE ENERGIES UTILITY COORDINATOR 500 S 116TH STREET WEST ALLIS, WI 53214 PHONE: (414) 221-2738 EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

SHEET



PLOT SCALE:

1 IN:100 FT

PROJECT MANAGER

FILE NAME

WISCONSIN DEPARTMENT OF TRANSPORTATION GARY MFT7FR 141 NW BARSTOW STREET WAUKESHA, WI 53188 PHONE: (262) 548-5685 EMAIL: GARY.METZER@DOT.WI.GOV

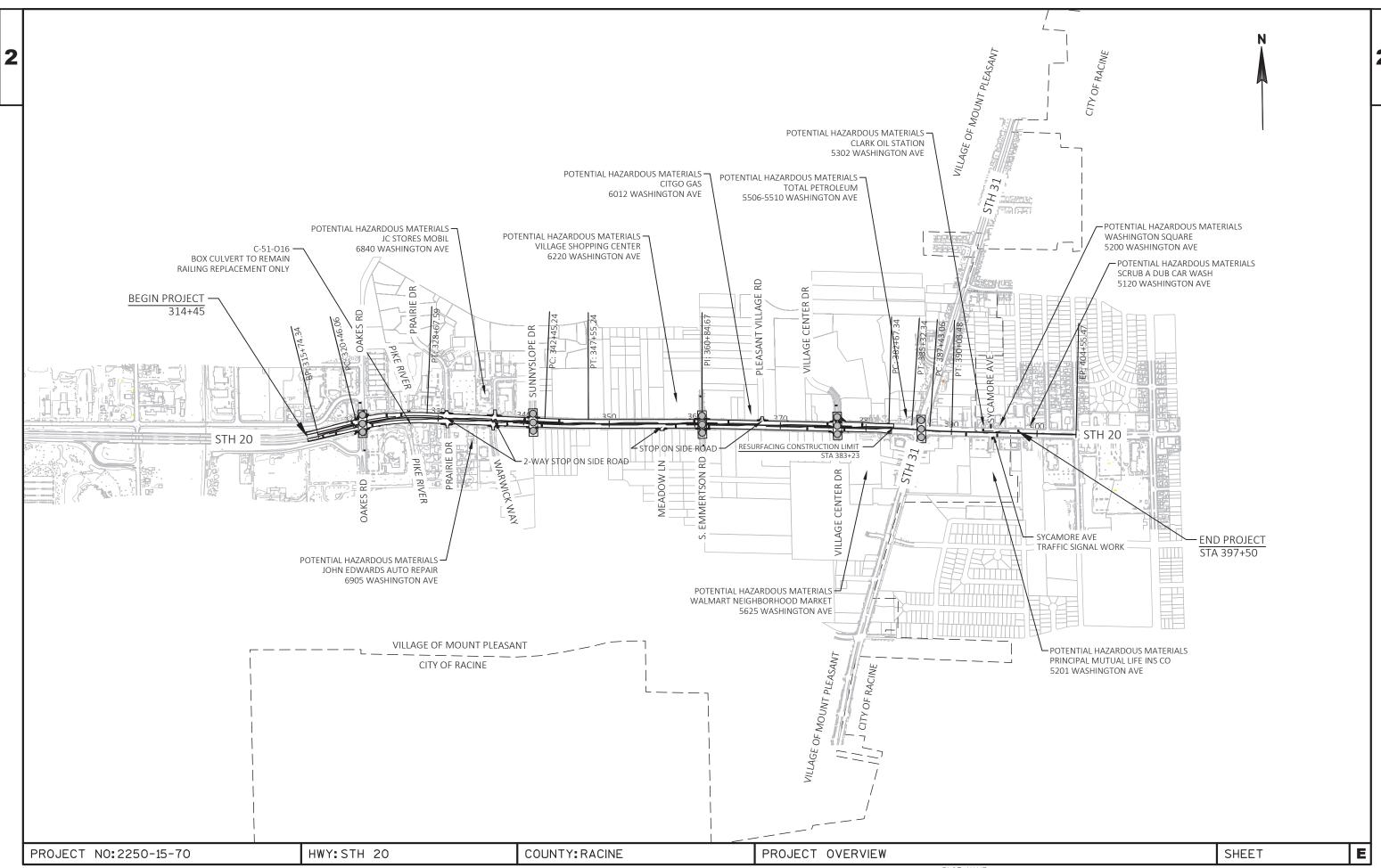
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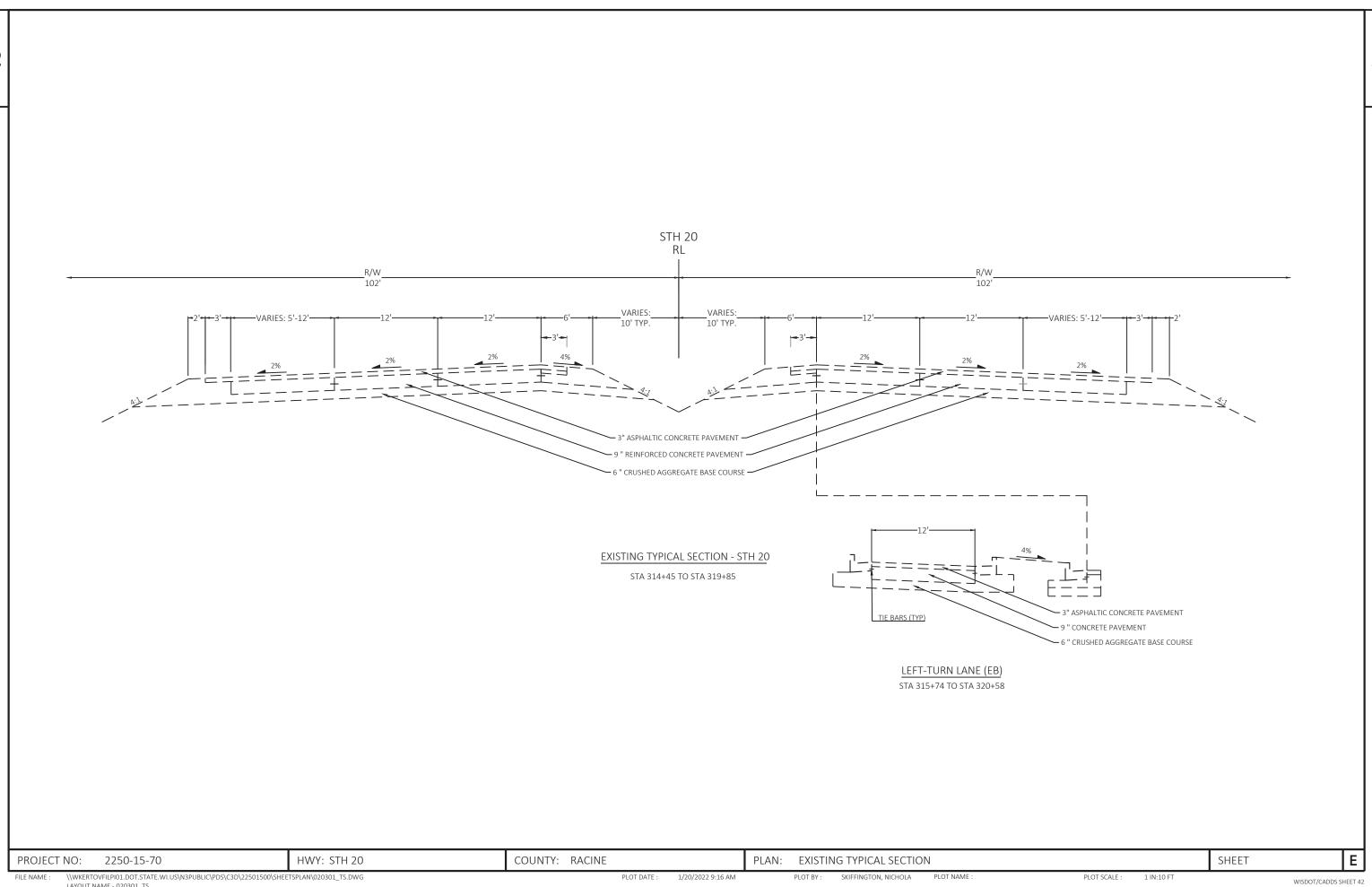
WI DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES KRISTINA RETZOLD 2300 N DR MARTIN LUTHER KING JR DR MII WAUKFF, WI 53212 PHONE: (414) 507-4946 EMAIL: KRISTINA.BETZOLD@WISCONSIN.GOV

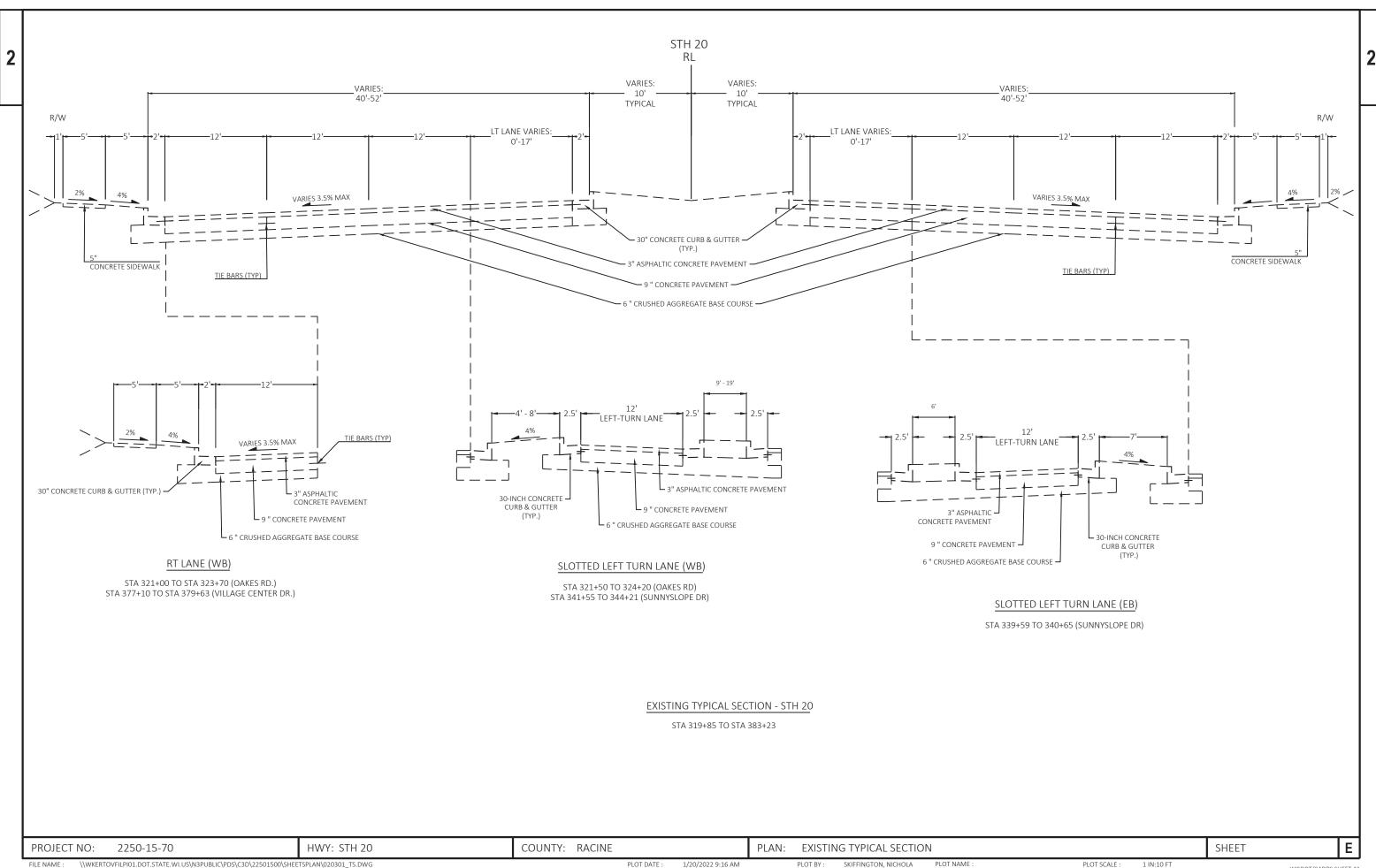
2250-15-70 HWY: STH 20 COUNTY: RACINE **GENERAL NOTES** PROJECT NO:

PLOT DATE:



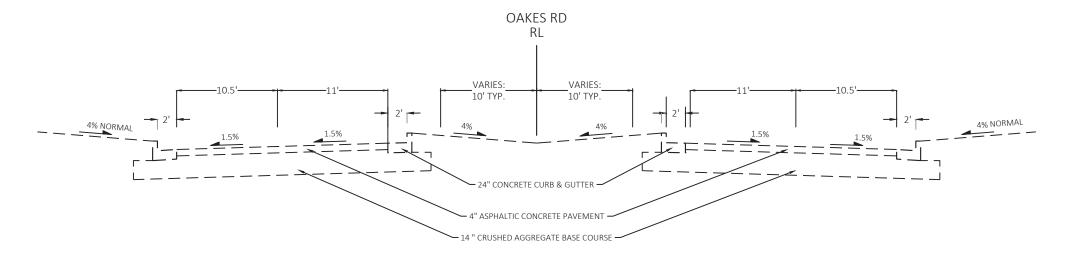


\\WKERTOVFILPI01.DOT.STATE.WI.US\N3PUBLIC\PD\$\C3D\22501500\\$HEET\$PLAN\020301_T\$.DWG LAYOUT NAME - 020301_T\$ PLOT DATE : 1/20/2022 9:16 AM PLOT BY: SKIFFINGTON, NICHOLA PLOT NAME: PLOT SCALE: 1 IN:10 FT



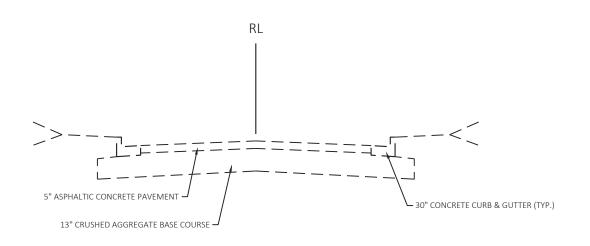
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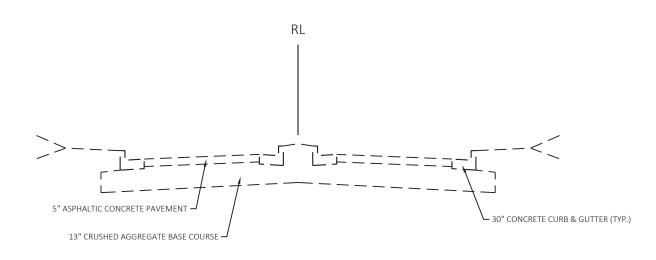
EXISTING TYPICAL SECTION - OAKES RD.

STA 4+75 TO STA 7+76



EXISTING TYPICAL SECTION

PRAIRIE DR WARWICK WAY SUNNYSLOPE DR MEADOW LANE AVE EMMERTSEN RD HUNTER DR VILLAGE CENTER DR S



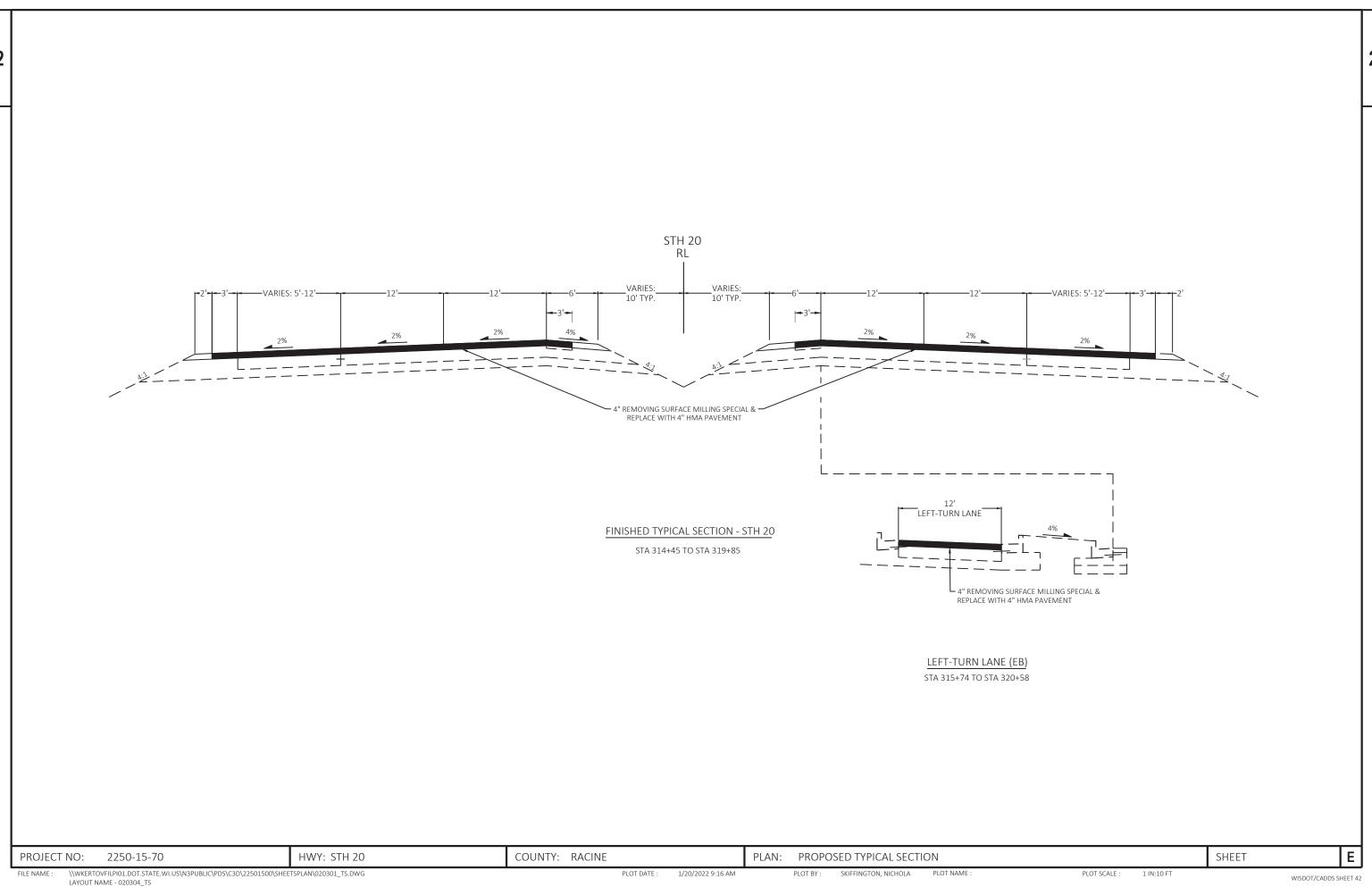
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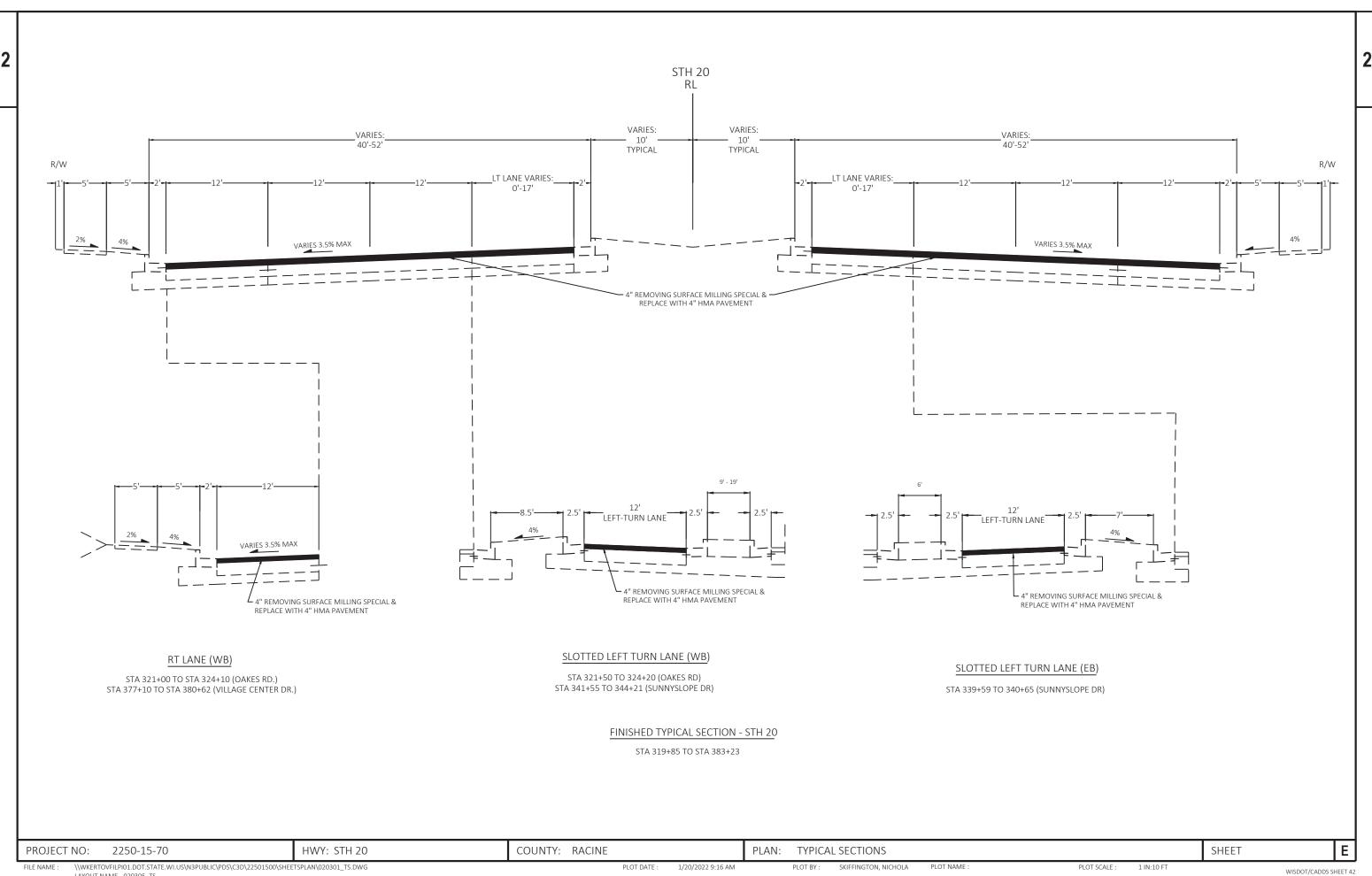
VILLAGE CENTER DR N

COUNTY: RACINE Ε PROJECT NO: 2250-15-70 HWY: STH 20 PLAN: PROPOSED TYPICAL SECTION SHEET

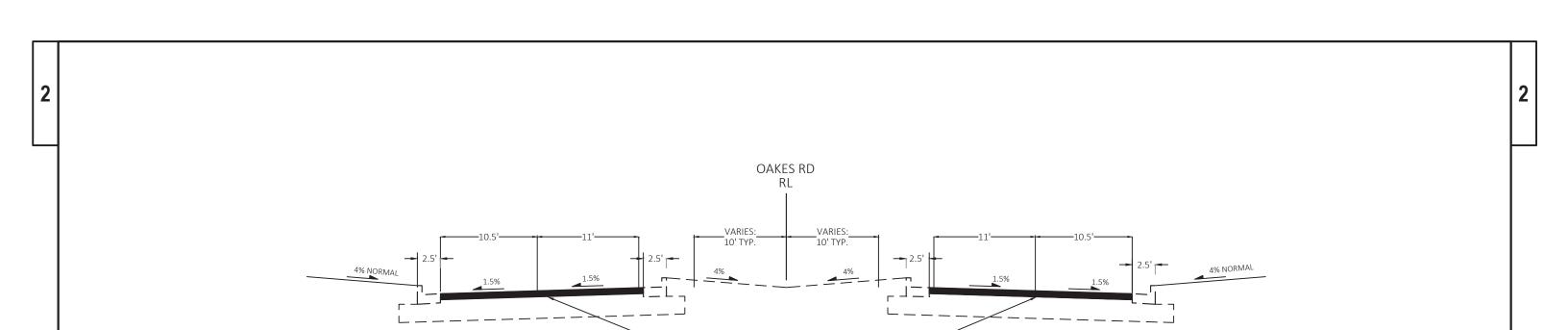
1/20/2022 9:16 AM

PLOT BY: SKIFFINGTON, NICHOLA





LAYOUT NAME - 020305_TS



FINISHED TYPICAL SECTION - OAKES RD.

1" REMOVING SURFACE MILLING SPECIAL & -REPLACE WITH 4" HMA PAVEMENT

STA 4+75 TO STA 7+76



FINISHED TYPICAL SECTION

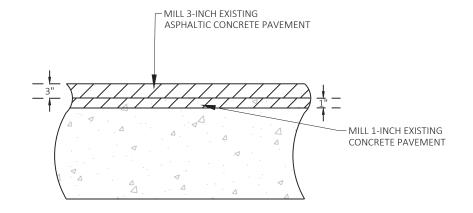
PRAIRIE DR WARWICK WAY SUNNYSLOPE DR MEADOW LANE AVE EMMERTSEN RD HUNTER DR VILLAGE CENTER DR S

FINISHED TYPICAL SECTION

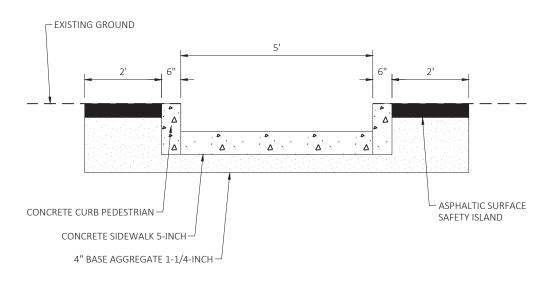
VILLAGE CENTER DR N

2250-15-70 COUNTY: RACINE Ε PROJECT NO: HWY: STH 20 PLAN: TYPICAL SECTIONS SHEET \\WKERTOVFILPI01.DOT.STATE.WI.US\\N3PUBLIC\PDS\C3D\\22501500\\SHEETSPLAN\\020301_TS.DWG LAYOUT NAME - 020306_TS 1/20/2022 9:16 AM PLOT BY: SKIFFINGTON, NICHOLA PLOT SCALE : 1 IN:10 FT



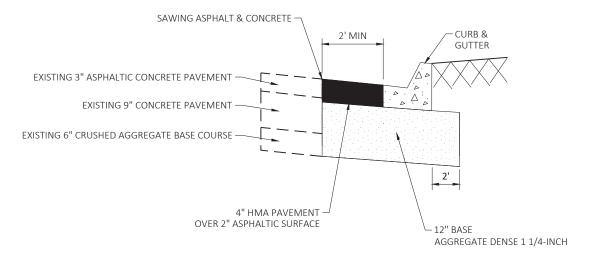


REMOVING SURFACE MILLING SPECIAL DETAIL



TYPICAL SECTION
SAFETY ISLAND SIDEWALK

WISDOT/CADDS SHEET 42



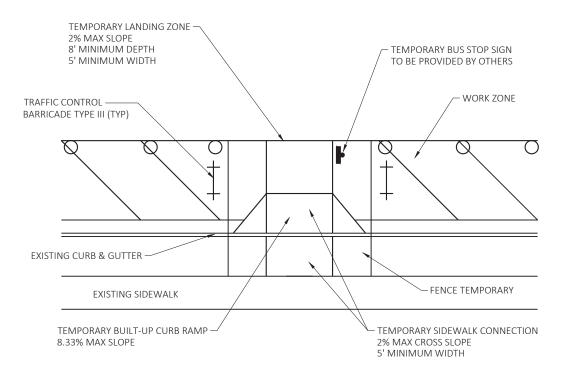
CURB & GUTTER DETAIL

NOTE: REMOVAL OF PAVEMENT STRUCTURE WILL BE PAID FOR AS EXCAVATION COMMON AND REMOVING CONCRETE PAVEMENT

PROJECT NO: 2250-15-70 HWY: STH 20 COUNTY: RACINE CONSTRUCTION DETAILS

FILE NAME: \\WKERTOVFILP101.DOT.STATE.WI.US\\N3PUBLIC\\PDS\\C3D\\22501500\\SHEETSPLAN\\021001_CD.DWG SHEETSPLAN\\021001_CD.DWG S

LAYOUT NAME - 021001_CD

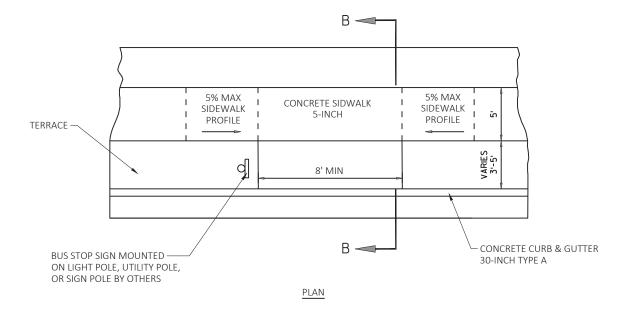


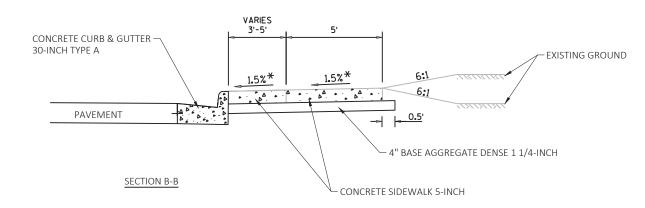
TEMPORARY BUS STOP TYPICAL

NOTES

FILE NAME :

- 1) MAINTAIN ACCESS TO BUS STOPS.
- 2) GAP SIDEWALK WORK TO MAINTAIN PEDESTRIAN ACCESS WHERE APPLICABLE.
- 3) ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.





BUS PAD DETAIL SEE PLAN DETAILS FOR LOCATIONS

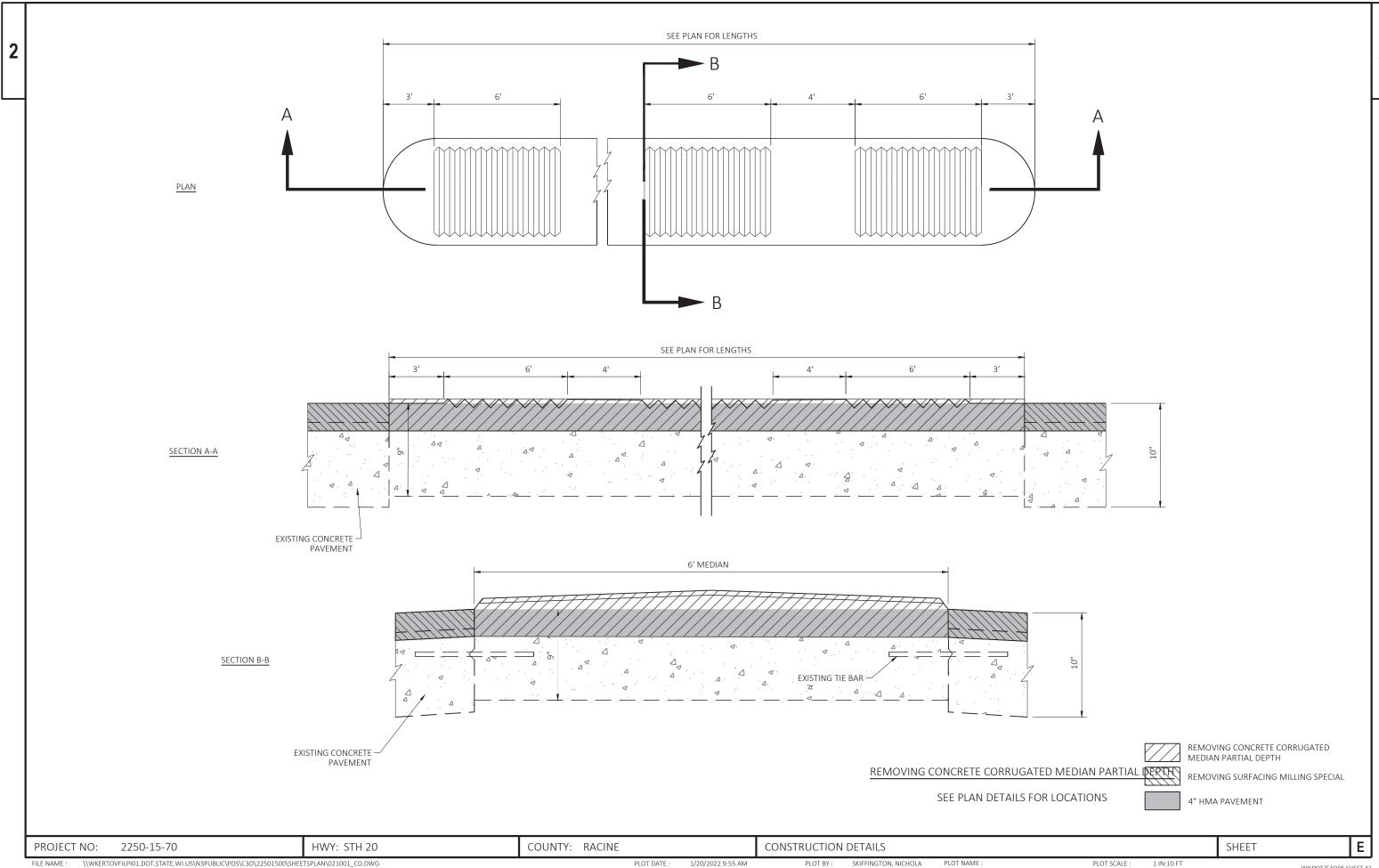
BUS PAD NOTES:

BUS PAD SHALL HAVE A MINIMUM LENGTH OF 8 FEET ALONG CURB EDGE AND A MINIMUM WIDTH OF 8 FEET (IN THE DIRECTION PERPENDICULAR TO THE ROADWAY)

* ±0.5%

PROJECT NO: 2250-15-70 HWY: STH 20 COUNTY: RACINE CONSTRUCTION DETAILS SHEET **E**

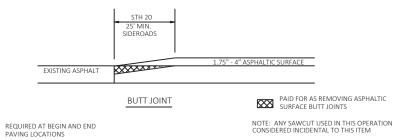
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LAYOUT NAME - 021002_CD\\
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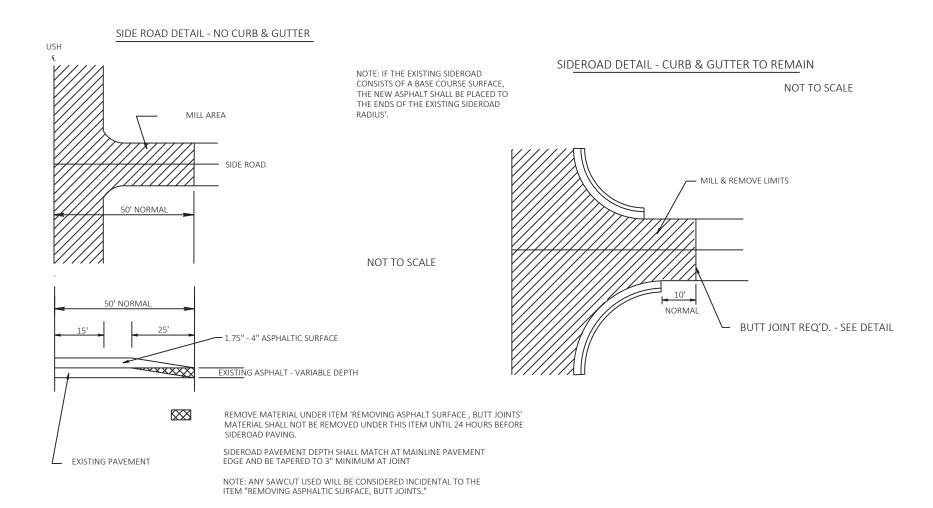


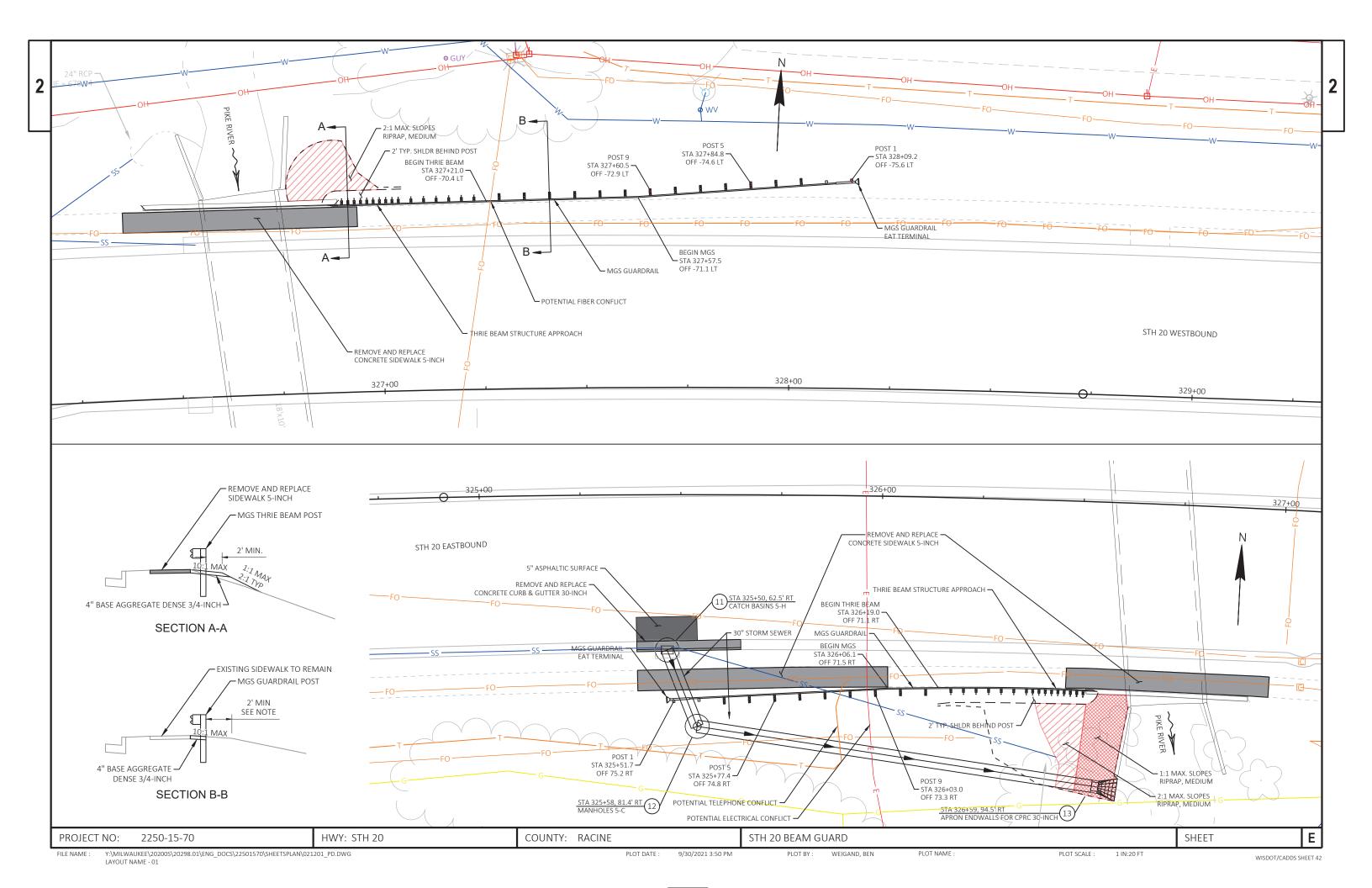
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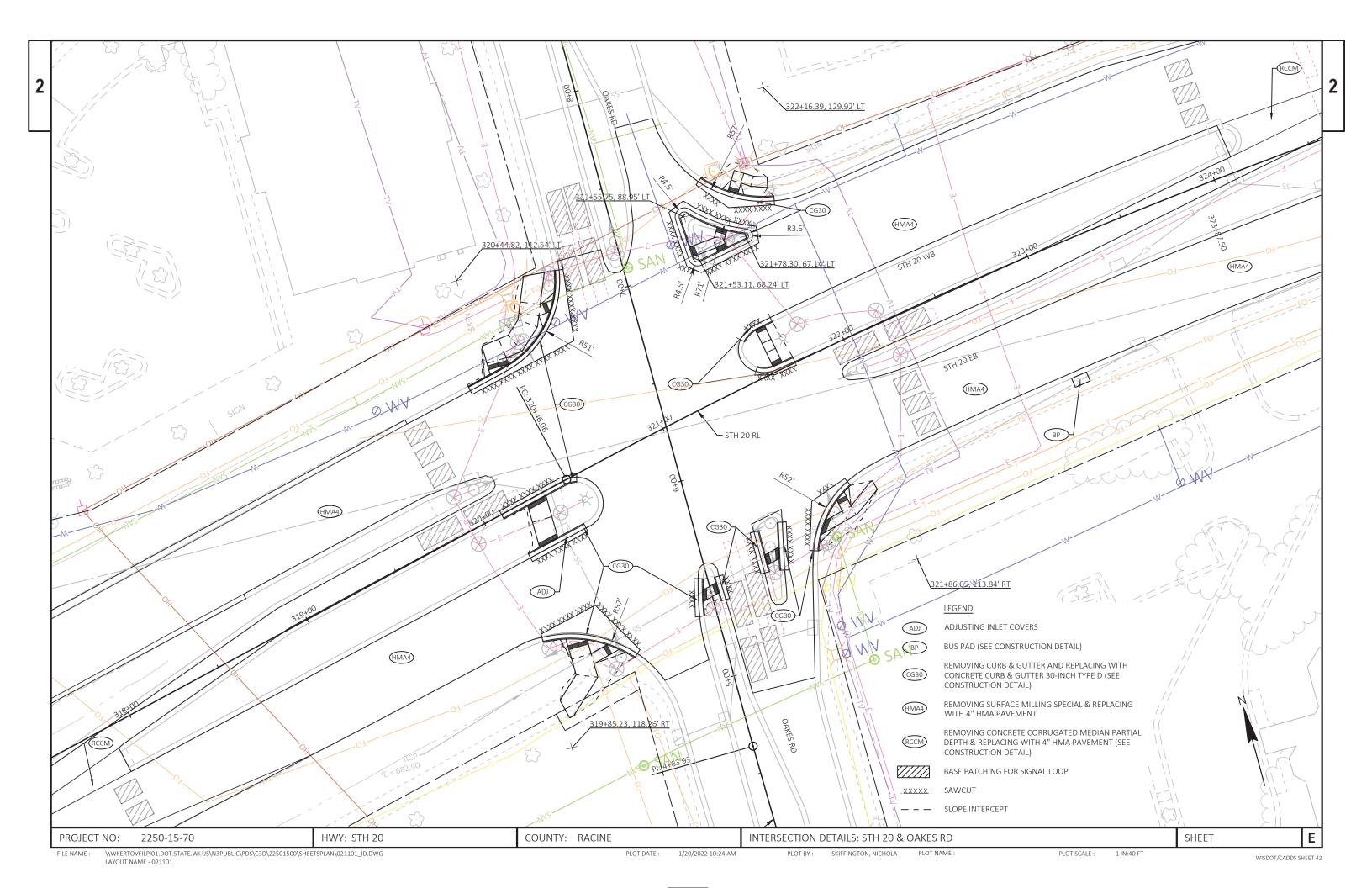
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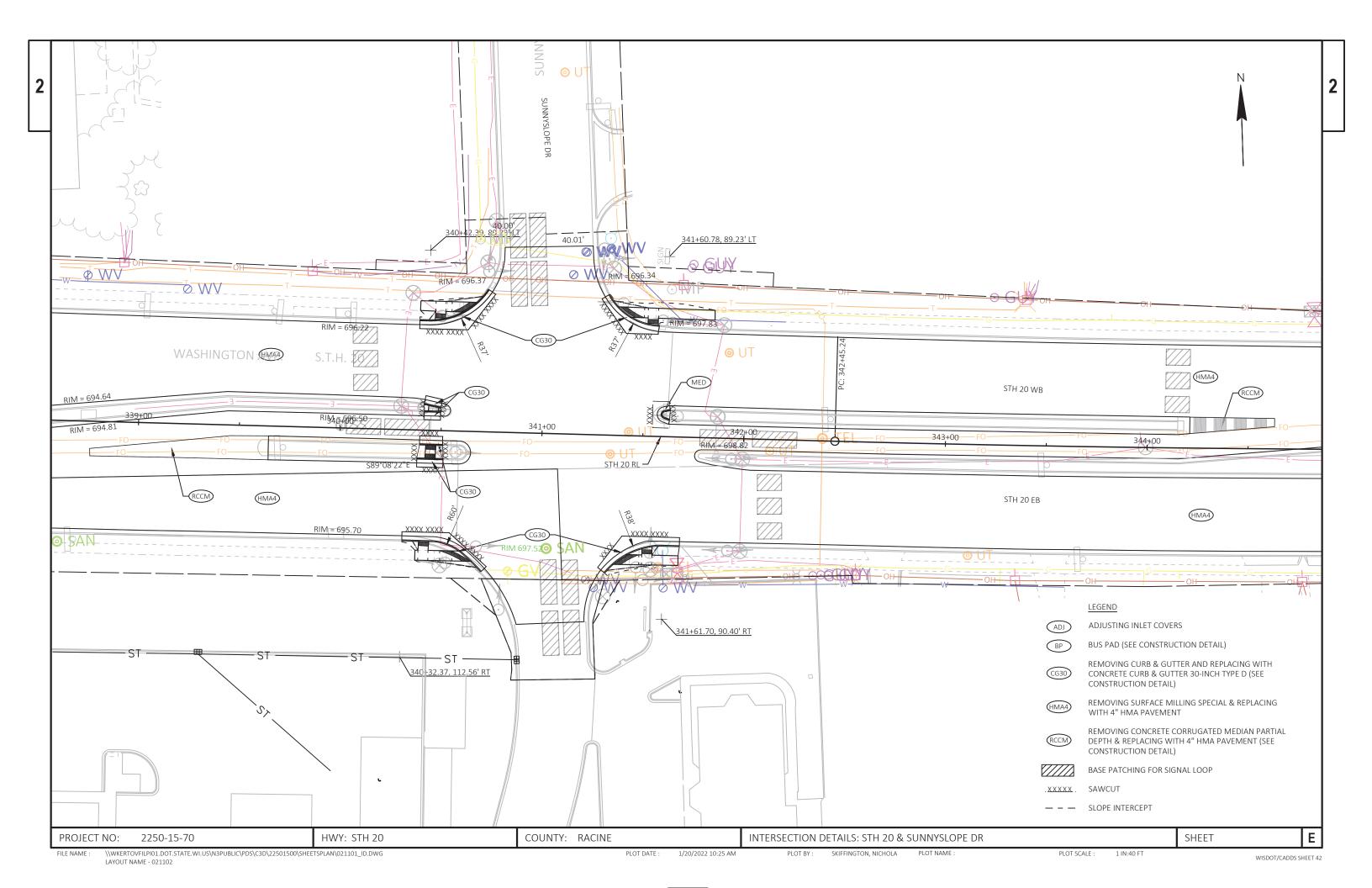


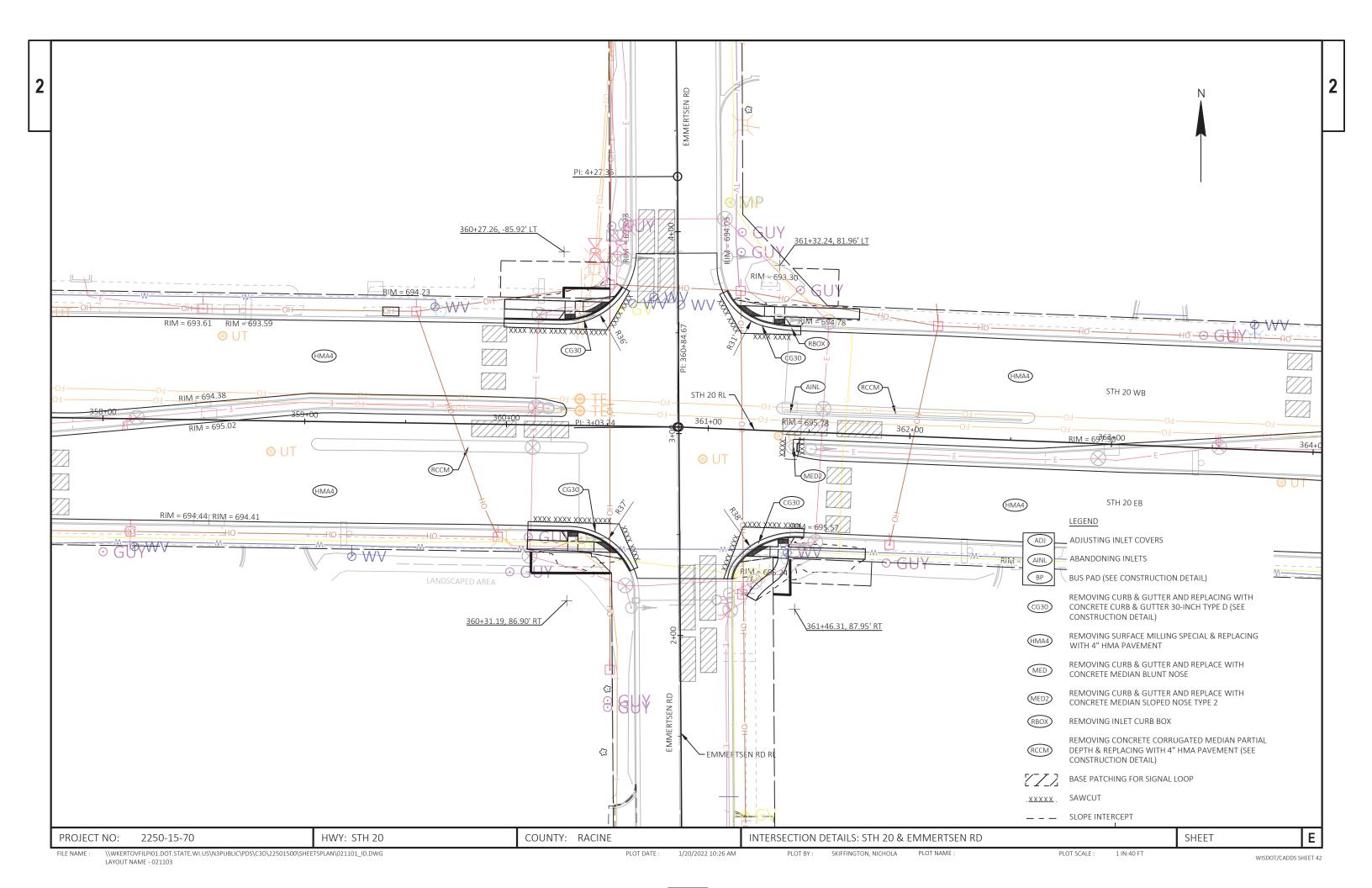


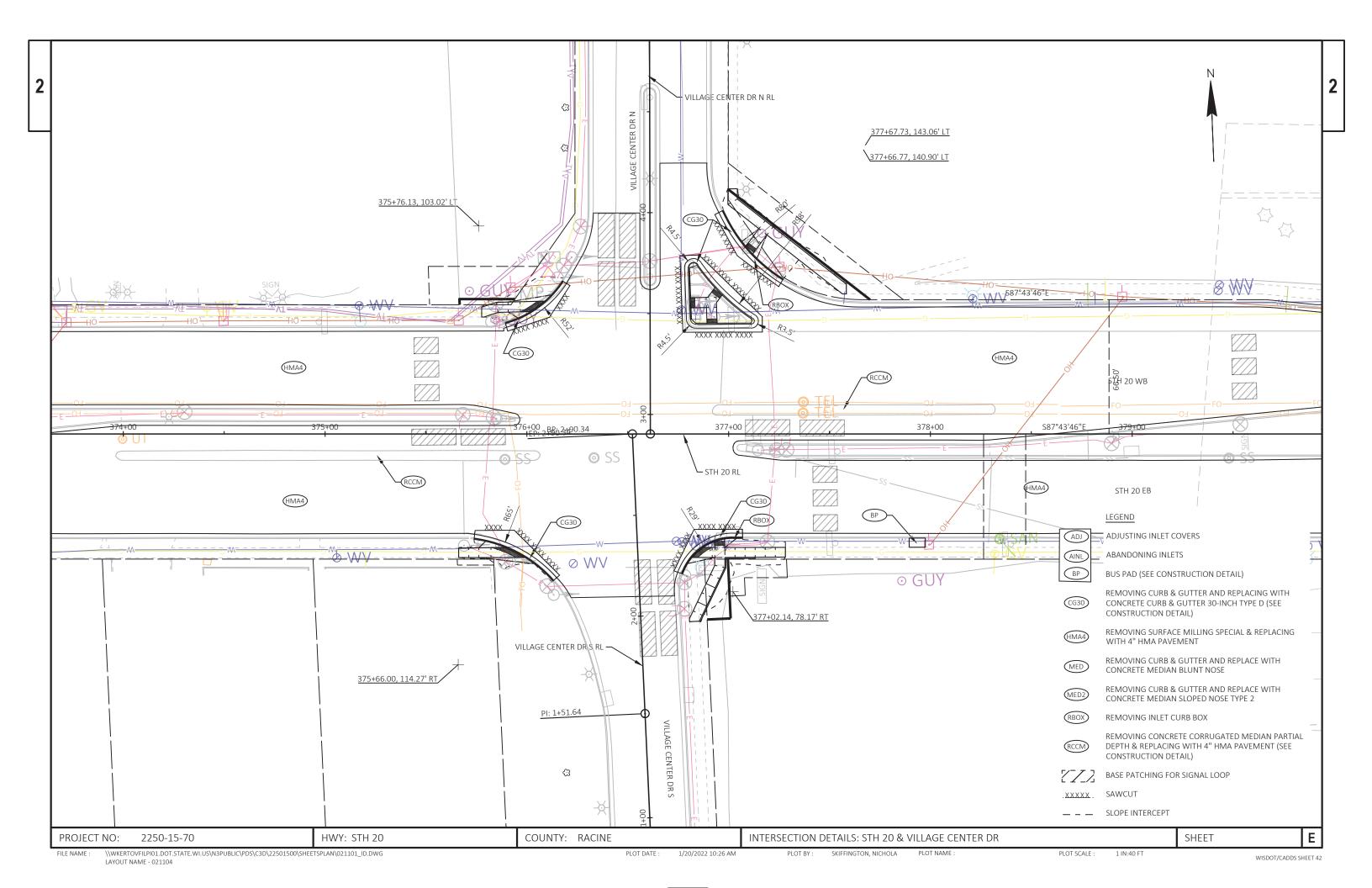


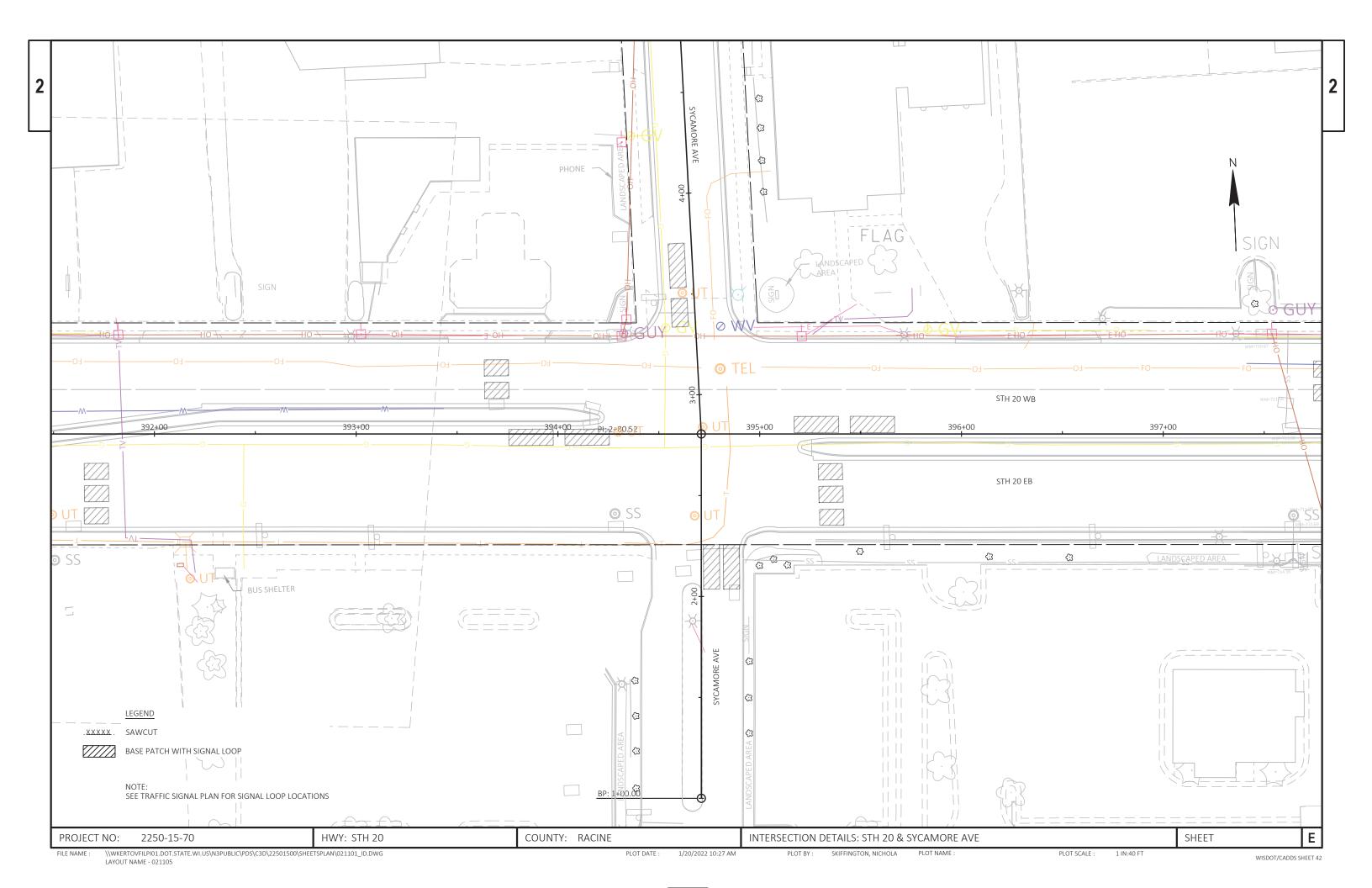


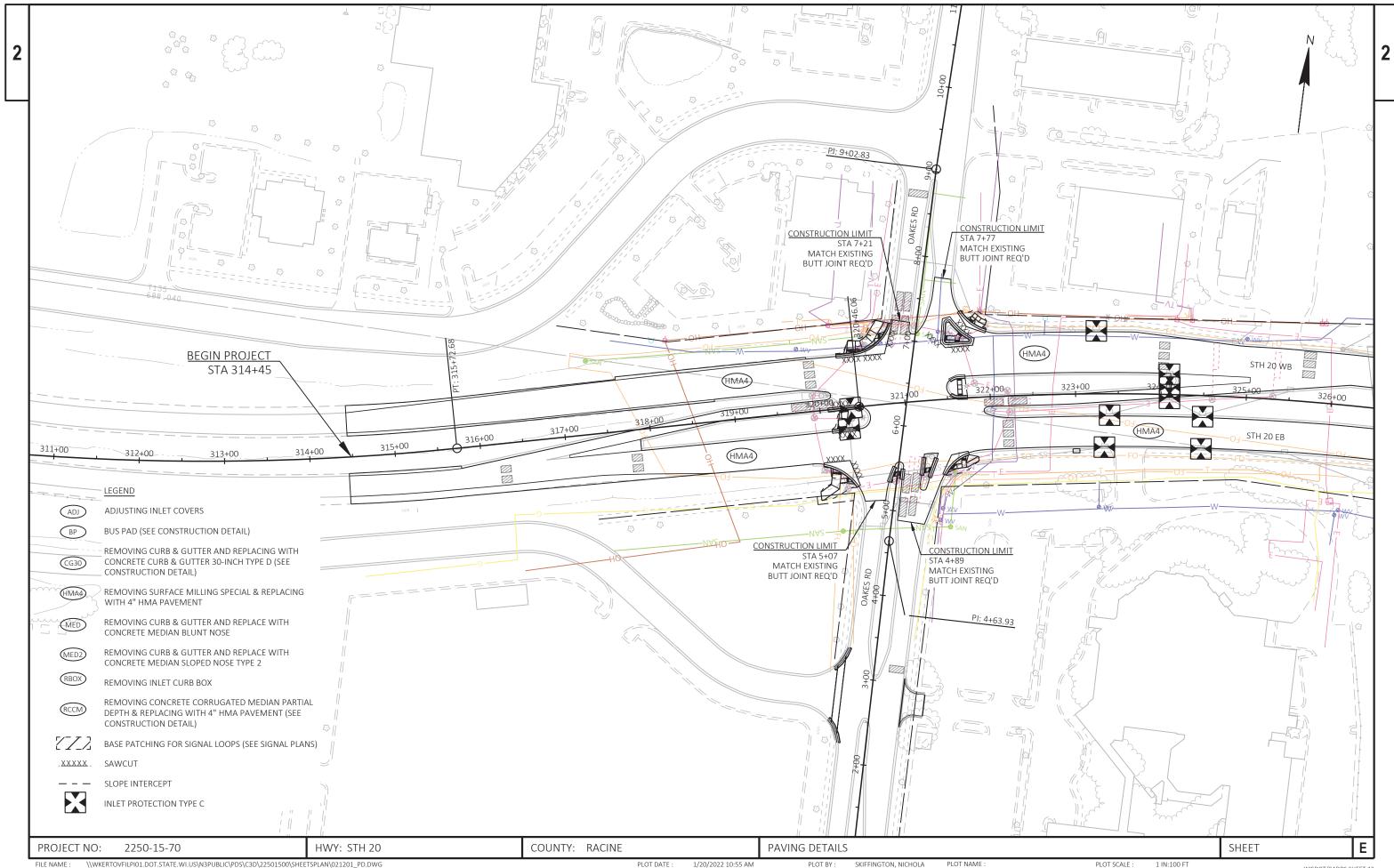




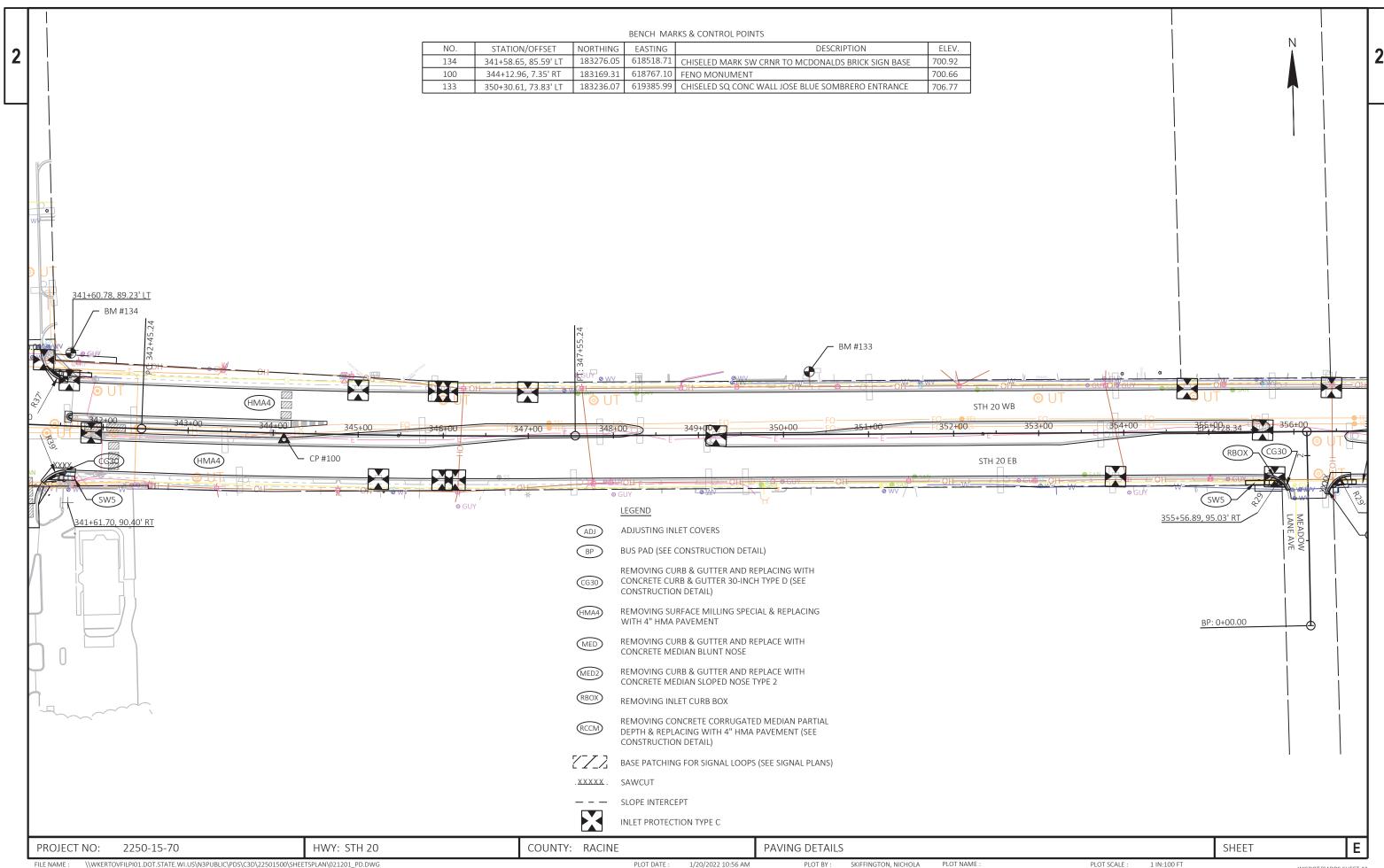




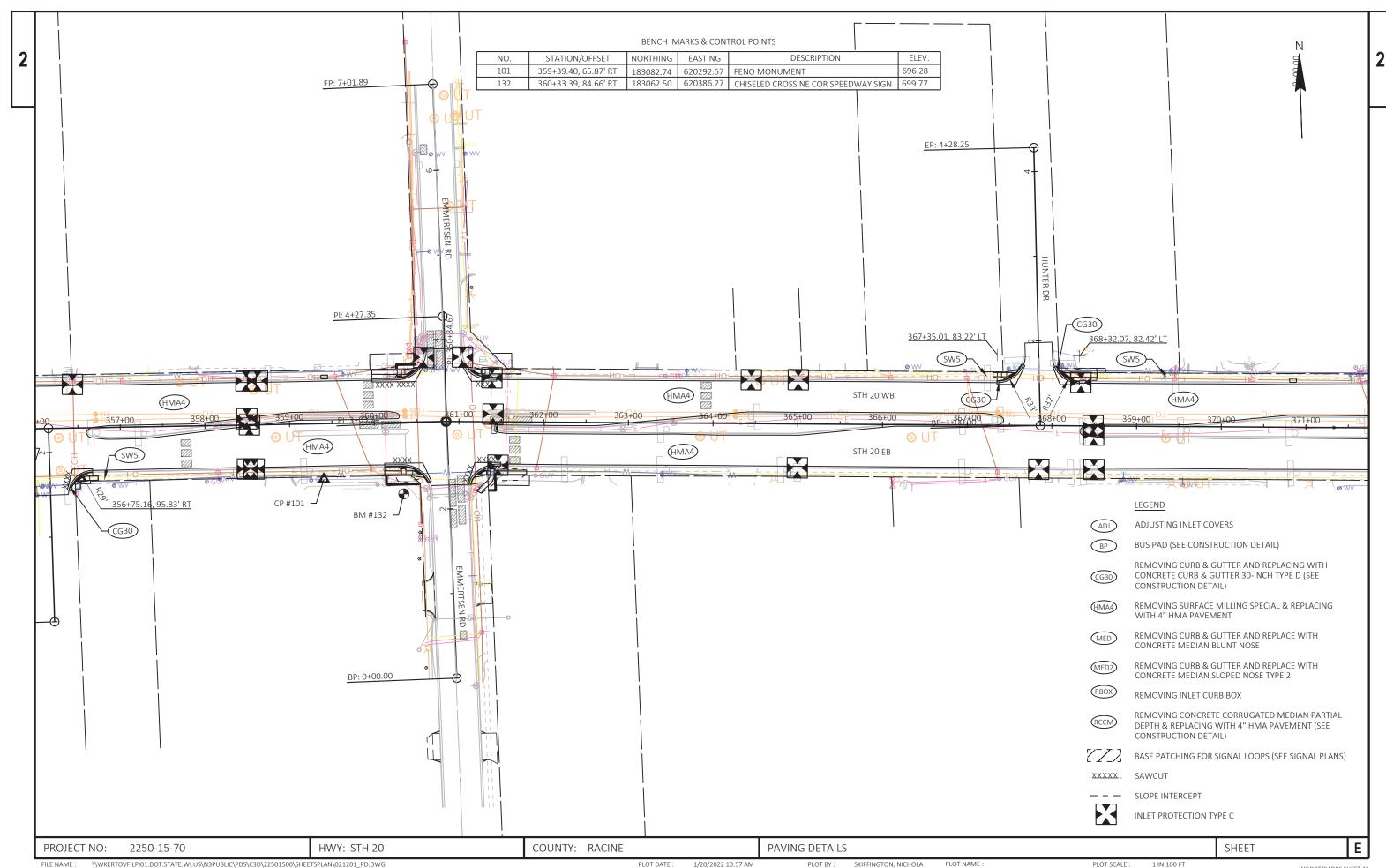




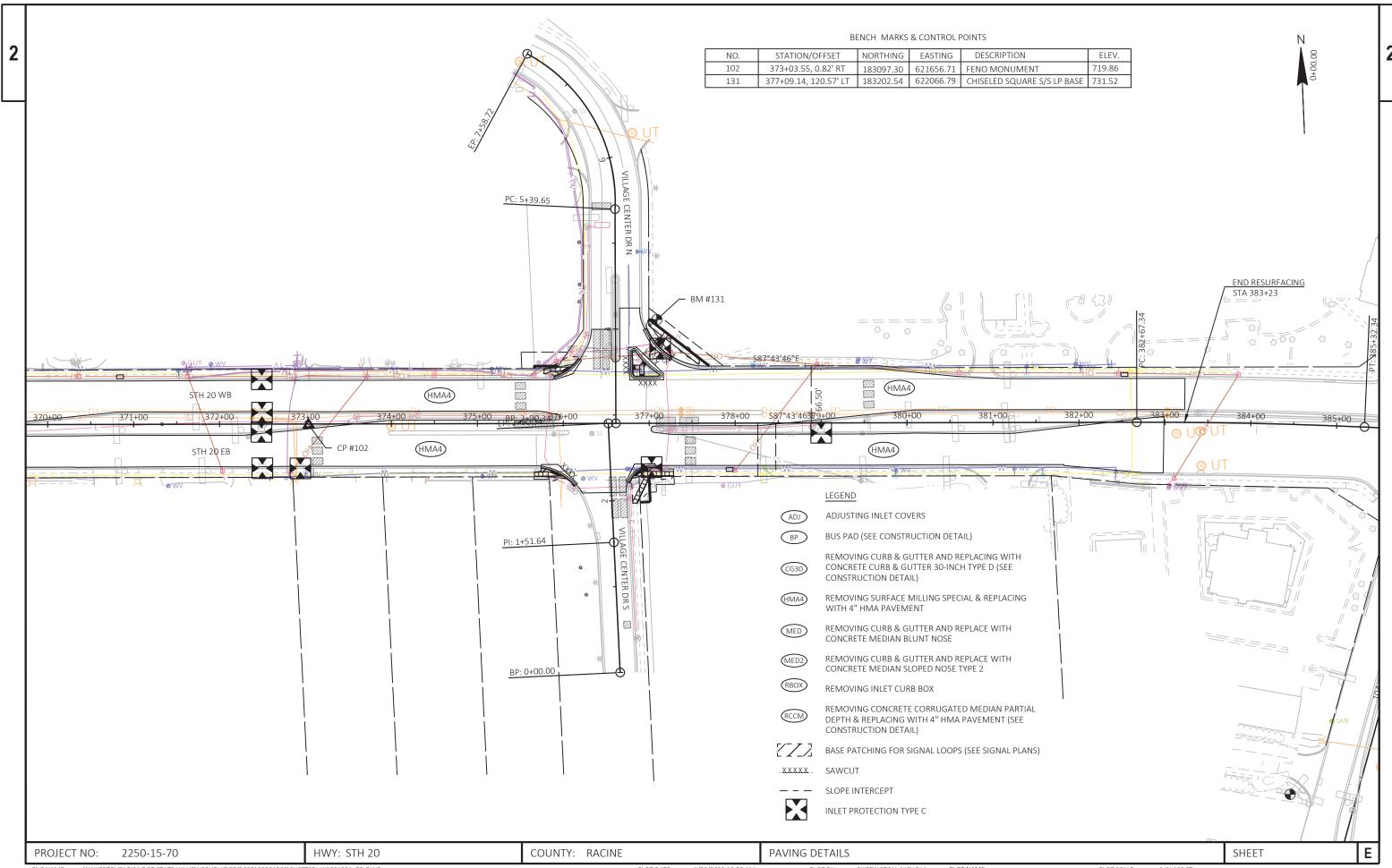




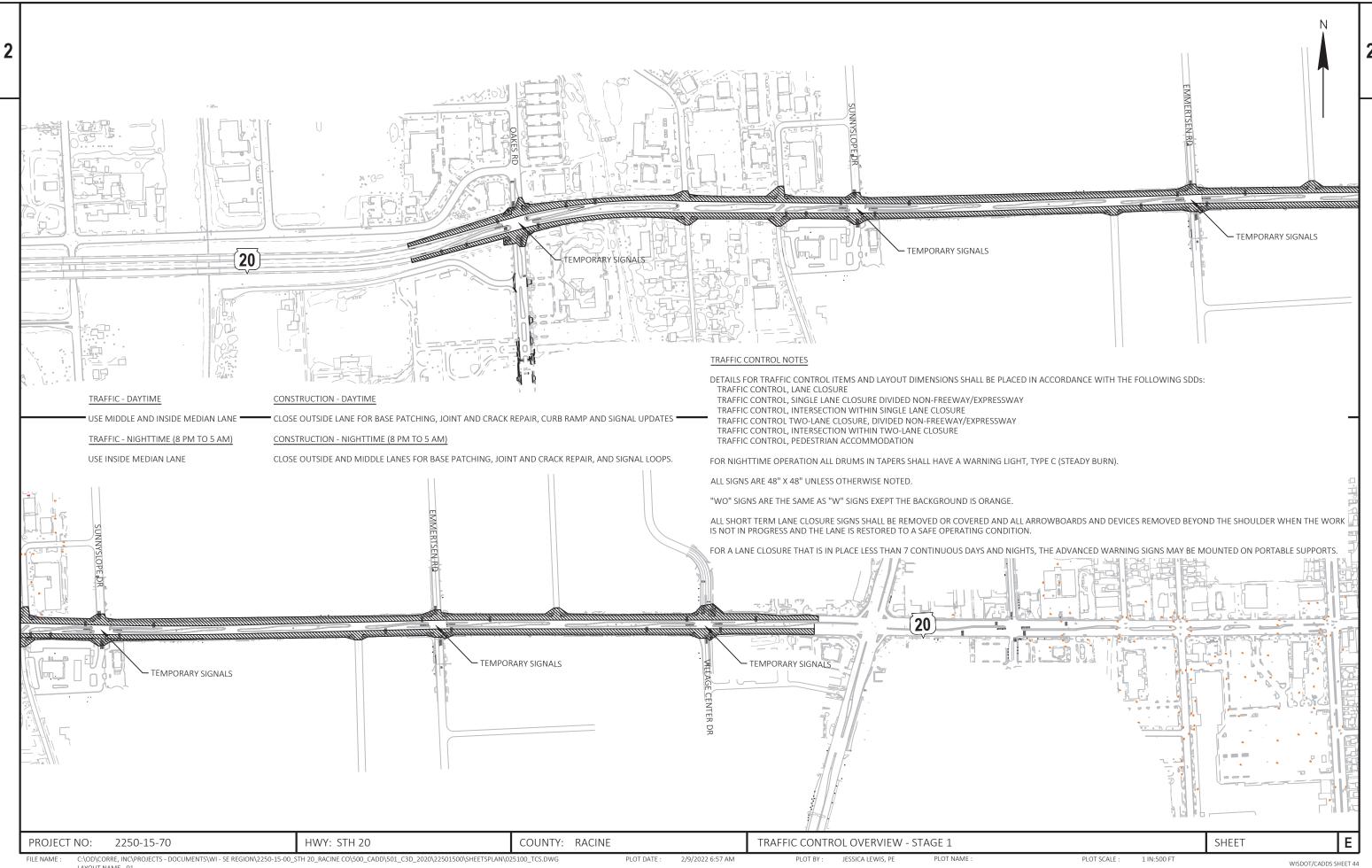
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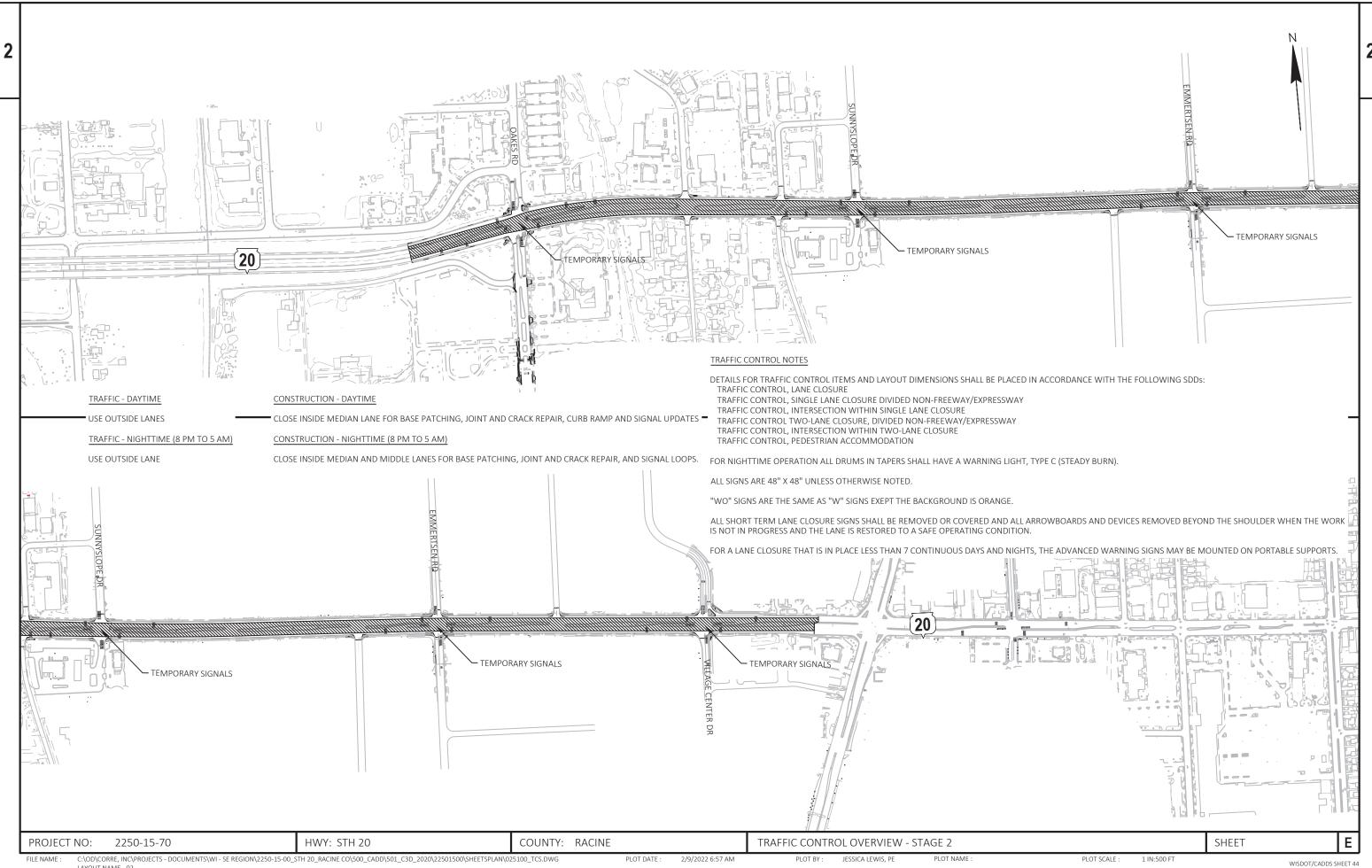


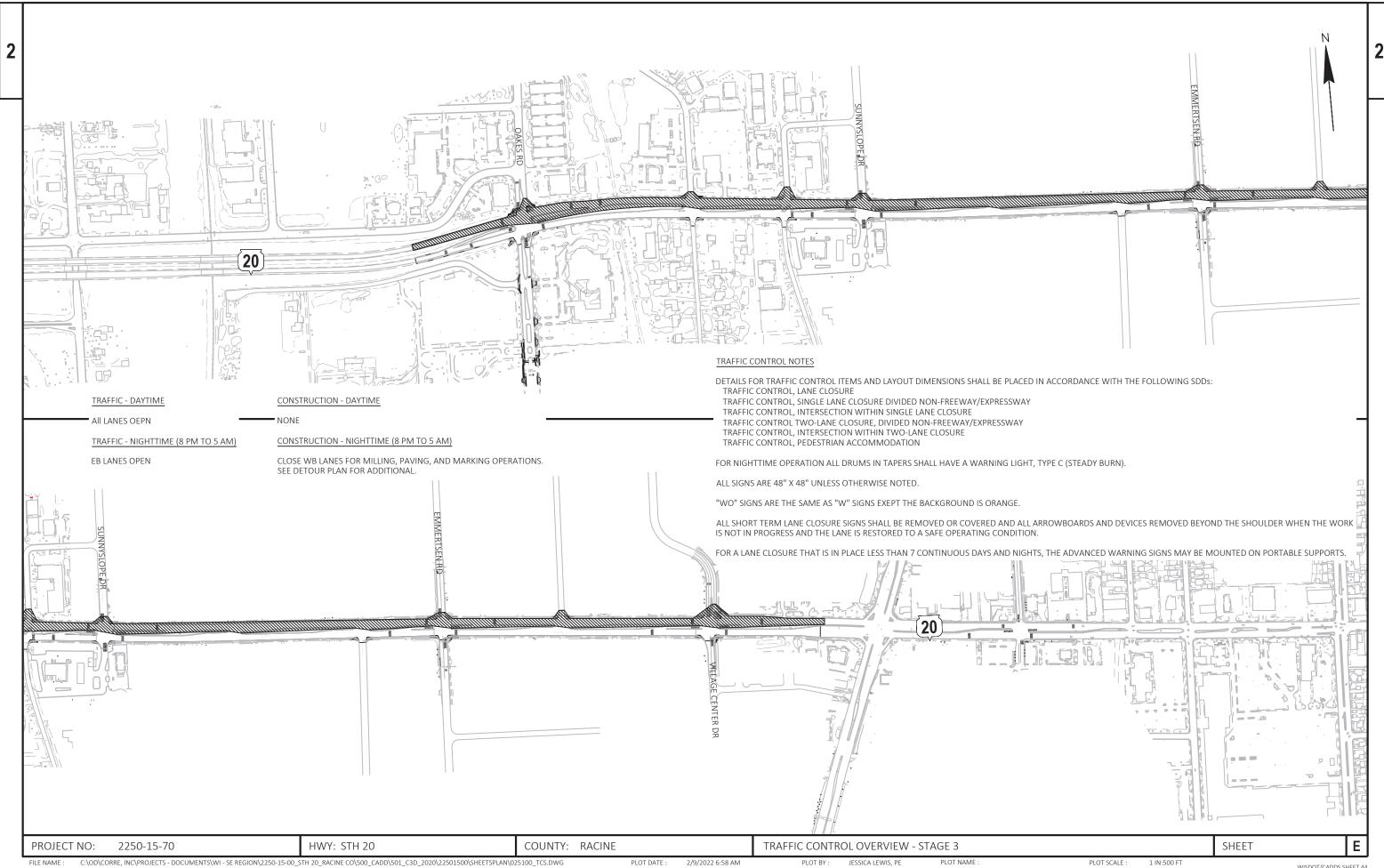
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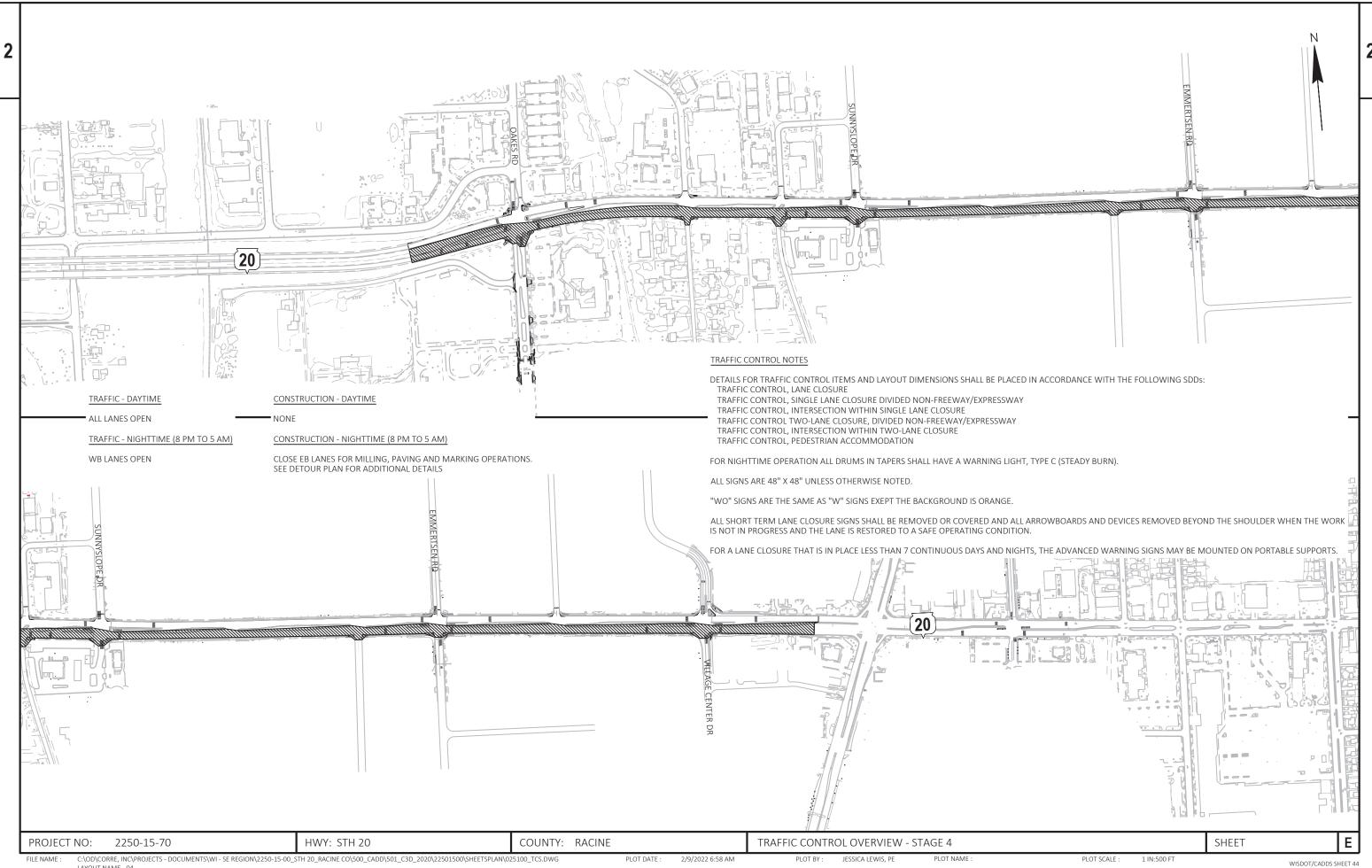
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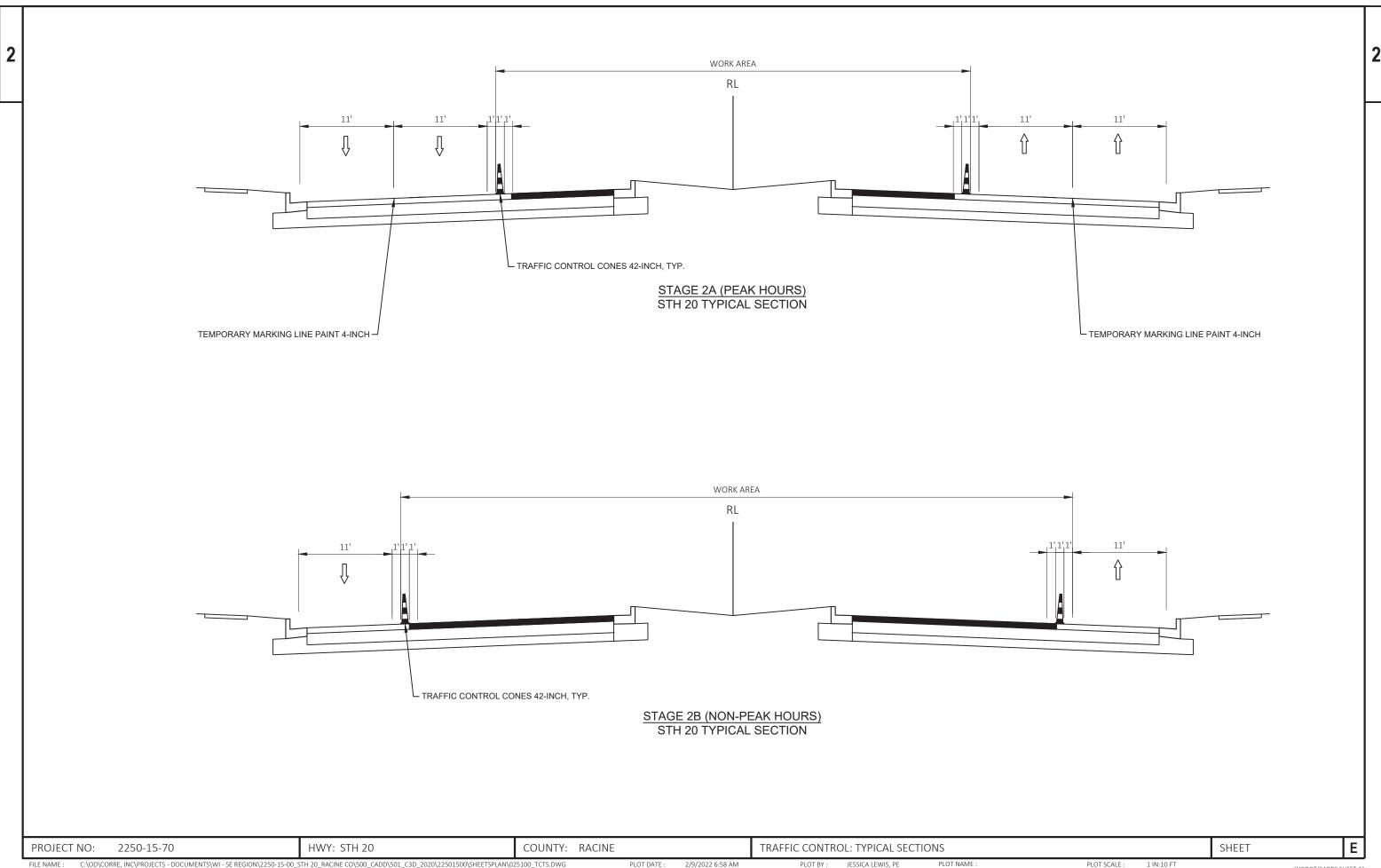
LAYOUT NAME - 03



C:\OD\CORRE, INC\PROJECTS - DOCUMENTS\WI - SE REGION\2250-15-00_STH 20_RACINE CO\500_CADD\501_C3D_2020\22501500\\$HEETSPLAN\025100_TCTS.DWG LAYOUT NAME - 020301-ts 1in-10ft

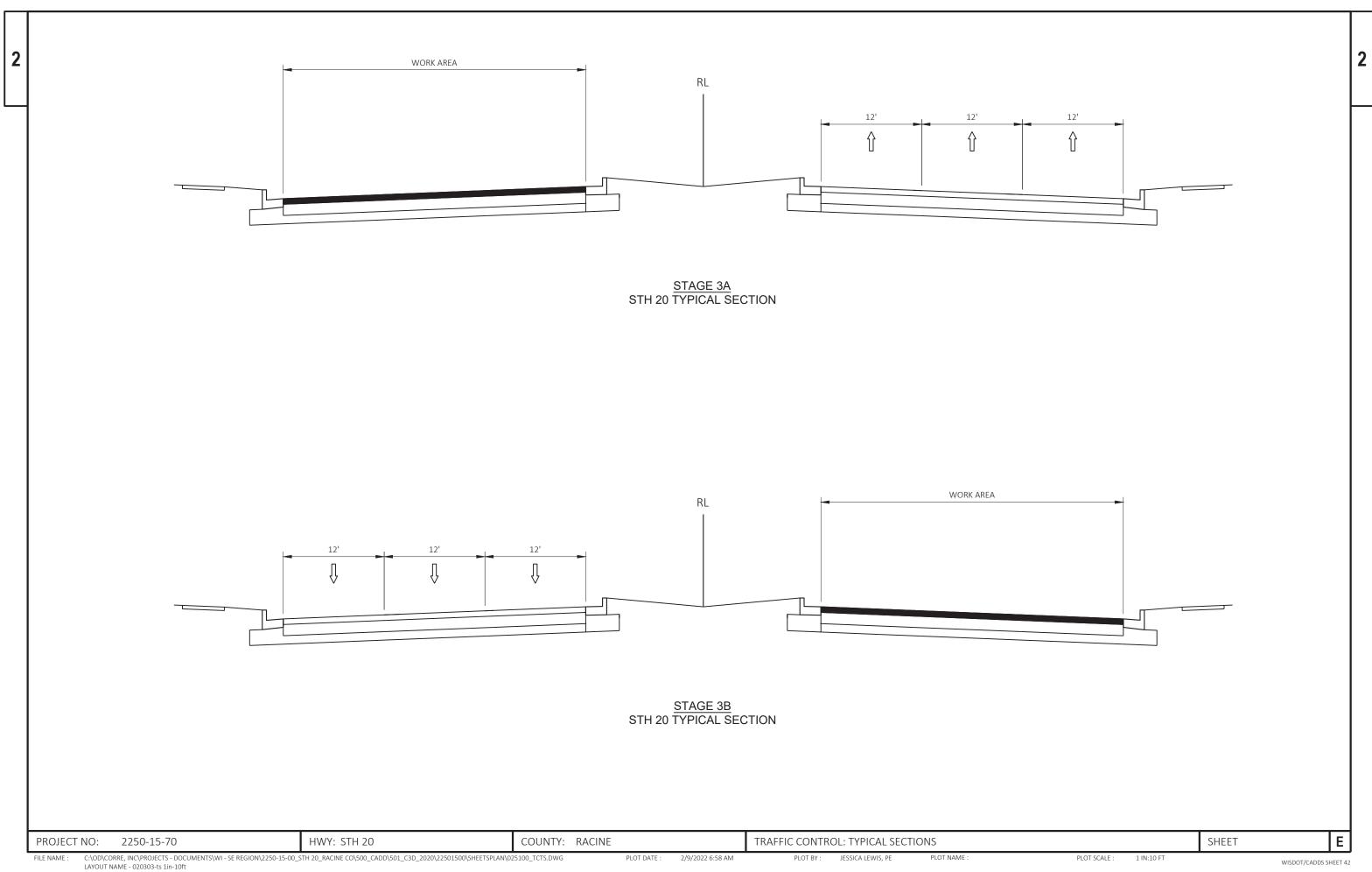
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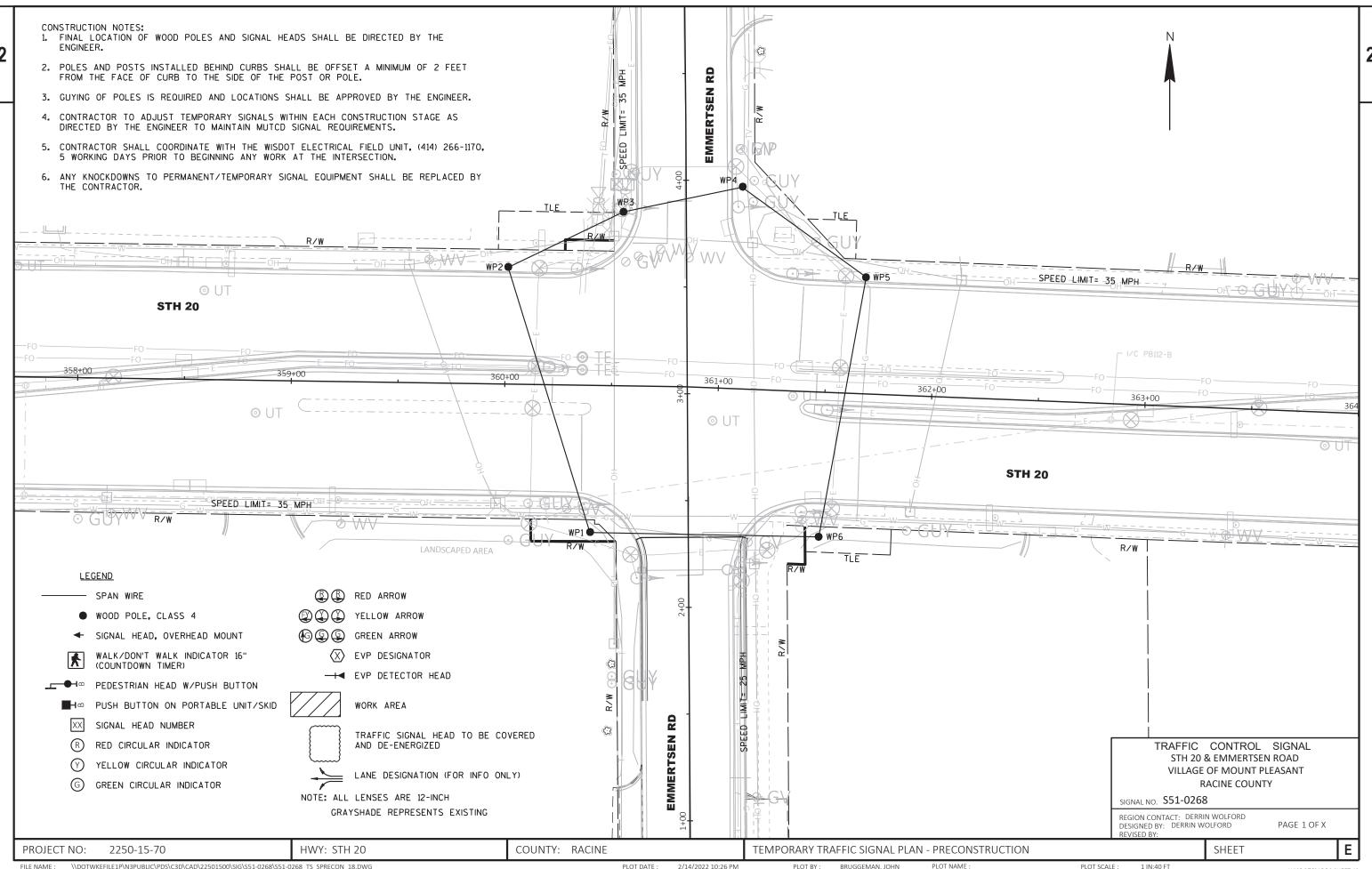
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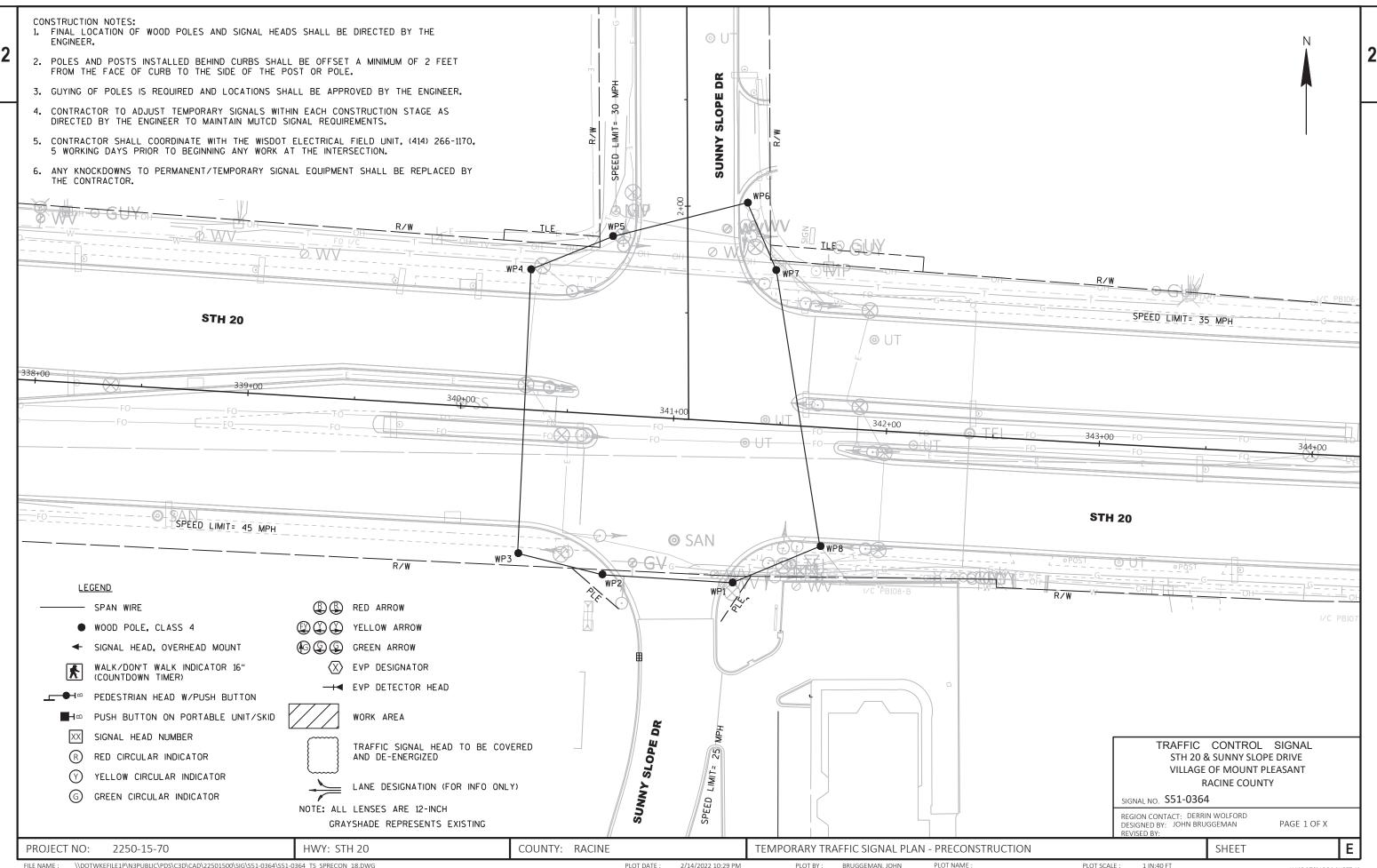


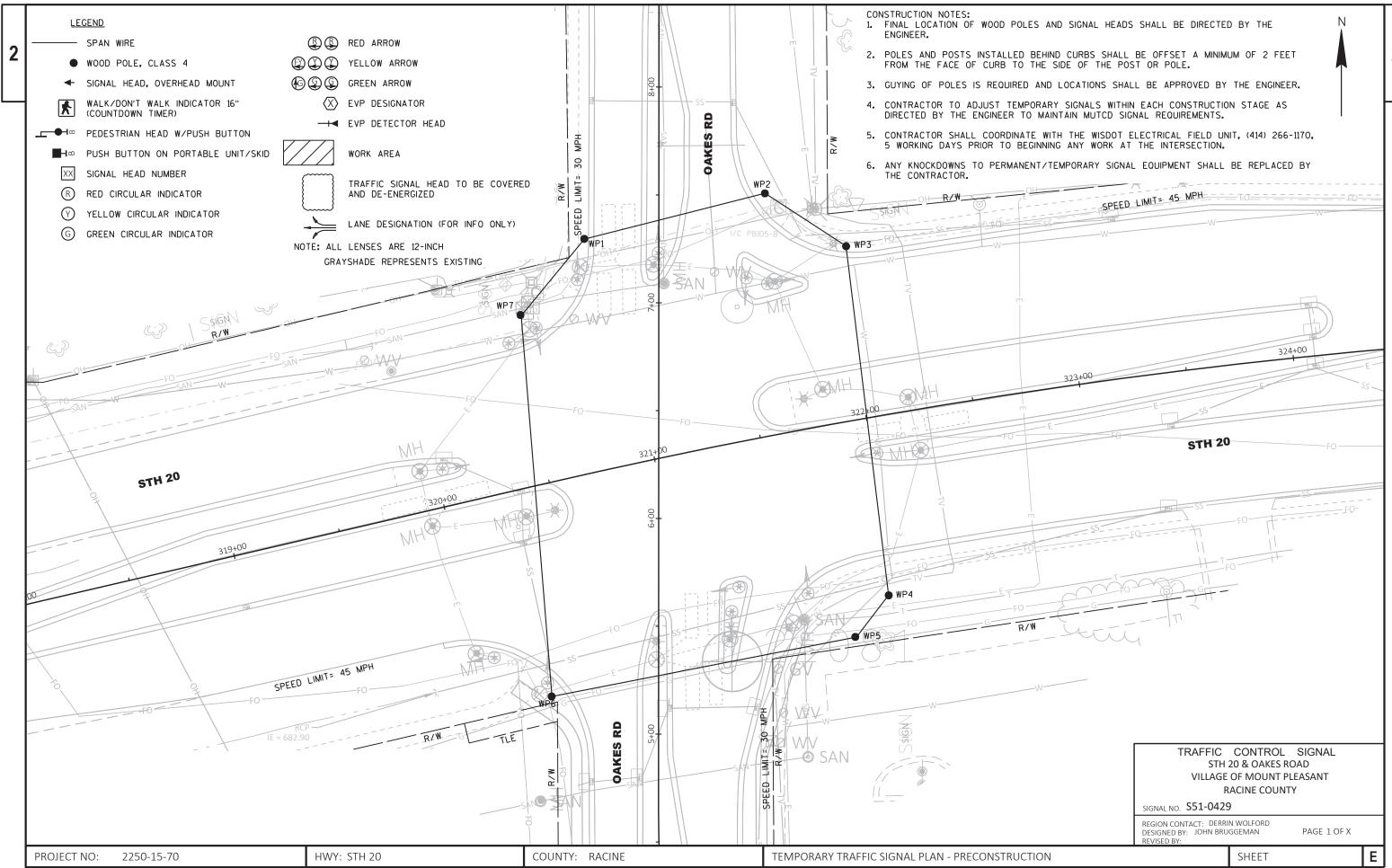
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PLOT SCALE :



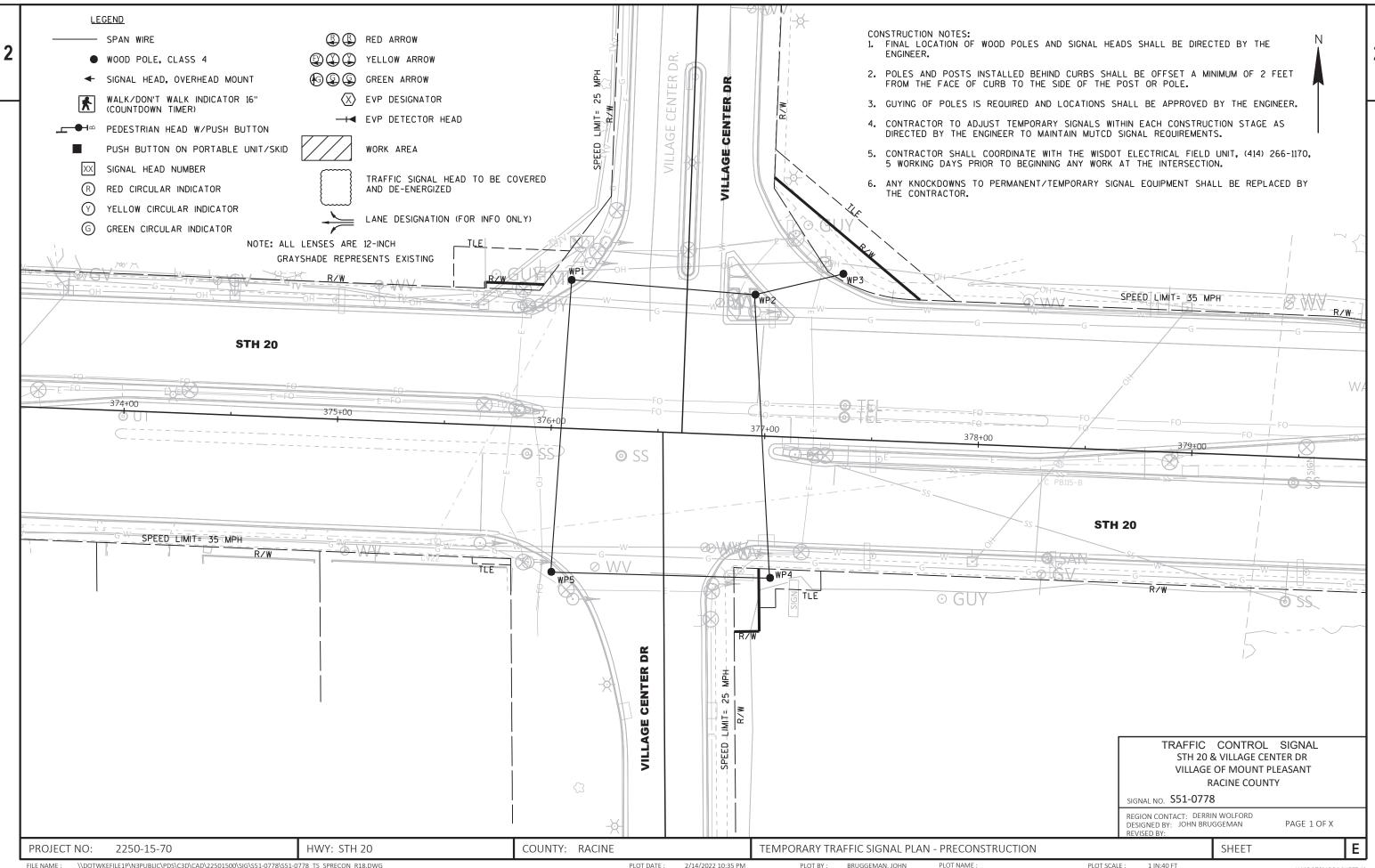




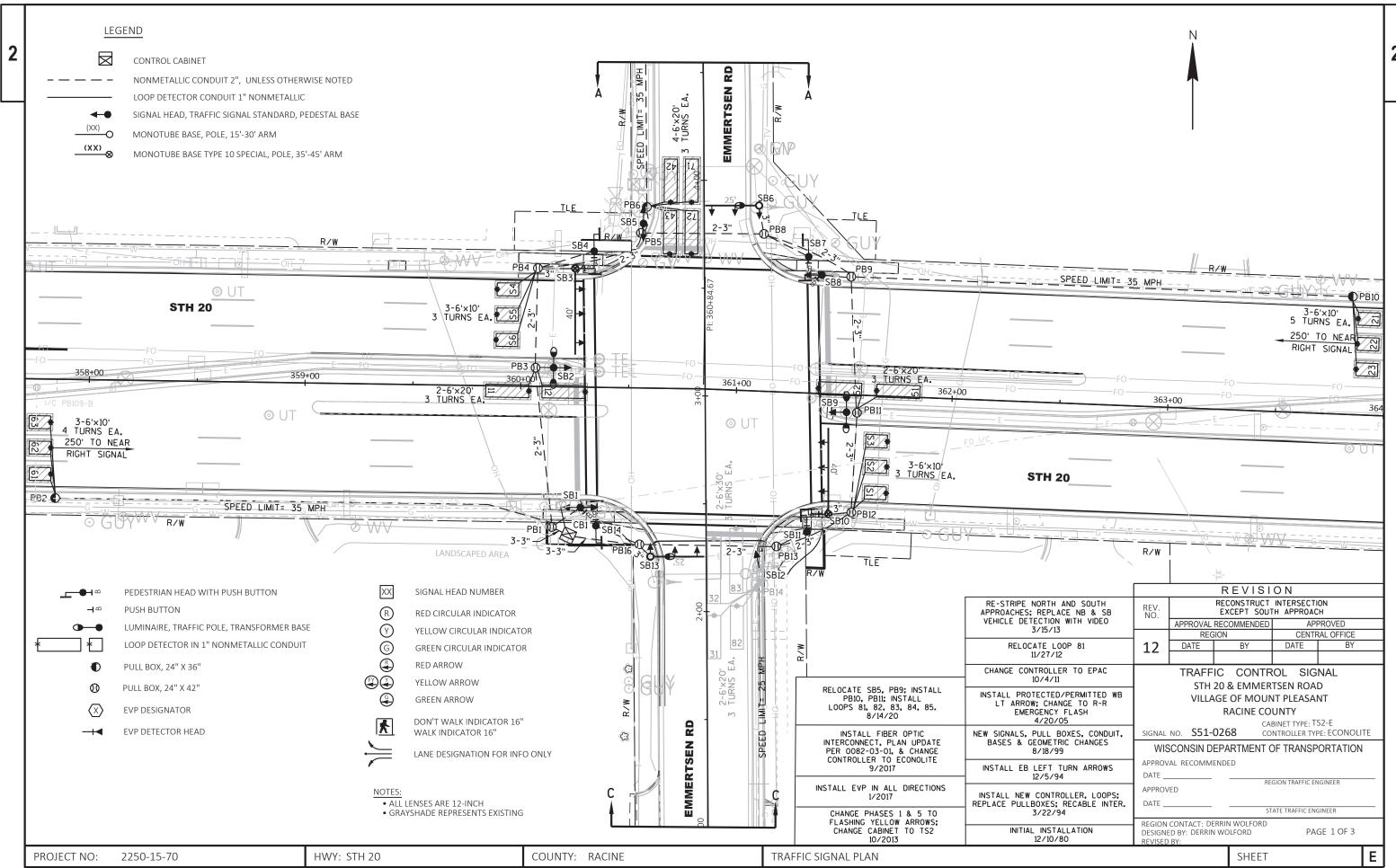


PLOT DATE:

2/14/2022 10:32 PM



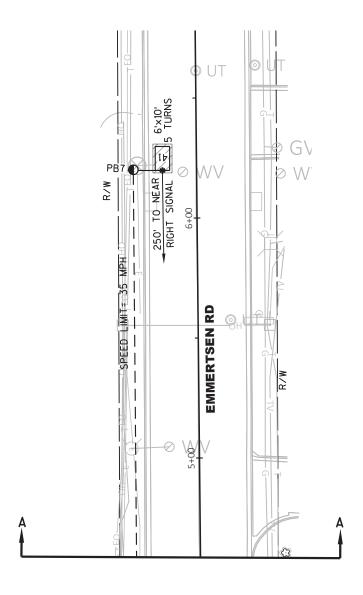
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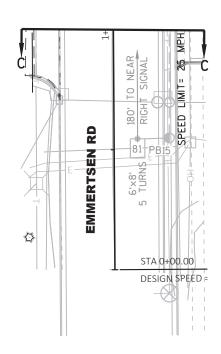


FILE NAME

PLOT BY :







TRAFFIC CONTROL SIGNAL STH 20 & EMMERTSEN ROAD VILLAGE OF MOUNT PLEASANT RACINE COUNTY

SIGNAL NO. **S51-0268**

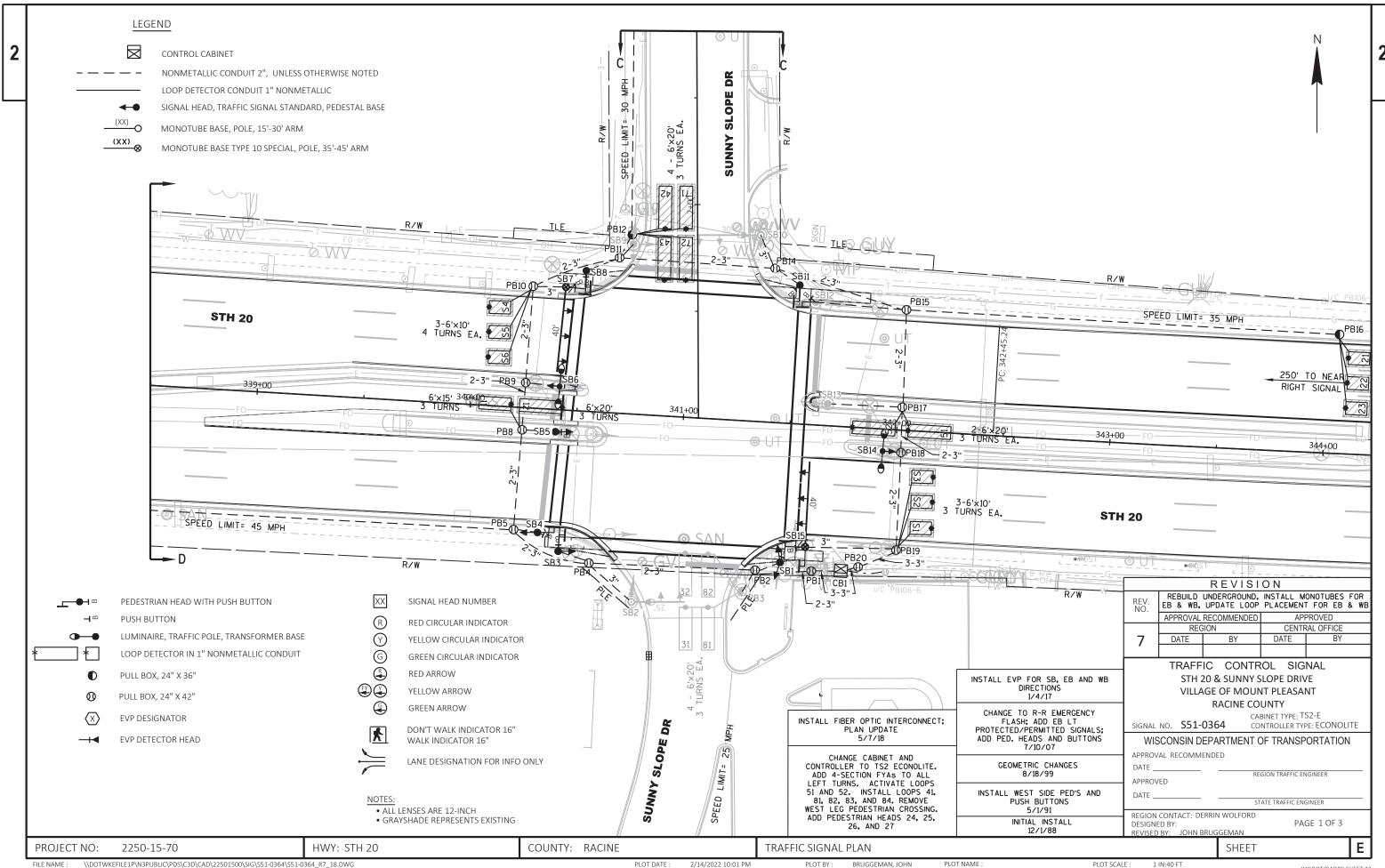
REGION CONTACT: DERRIN WOLFORD DESIGNED BY: DERRIN WOLFORD REVISED BY:

PAGE 2 OF 3

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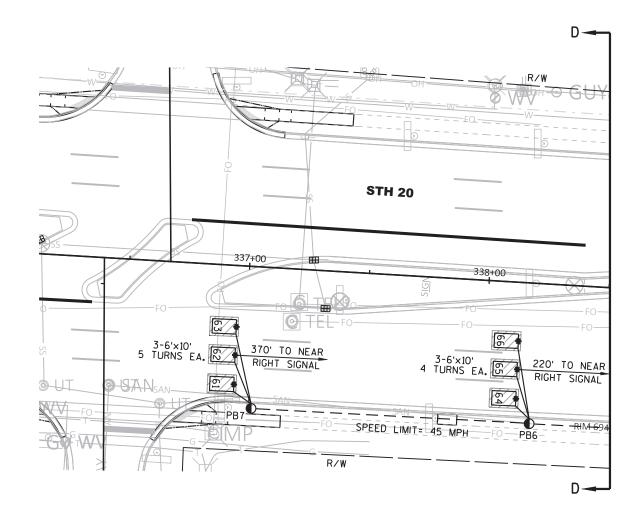
COUNTY: RACINE PROJECT NO: 2250-15-70 HWY: STH 20 TRAFFIC SIGNAL PLAN \\DOTWKEFILE1P\\N3PUBLIC\PD\$\C3D\CAD\22501500\SIG\\$51-0268\\$51-0268_R12_18.DWG LAYOUT NAME - Plan 1 IN 40 FT (2) FILE NAME : PLOT DATE : 2/14/2022 10:11 PM PLOT BY: BRUGGEMAN, JOHN

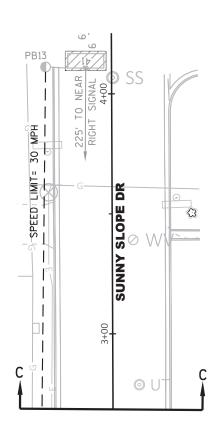
SHEET



FILE NAME :







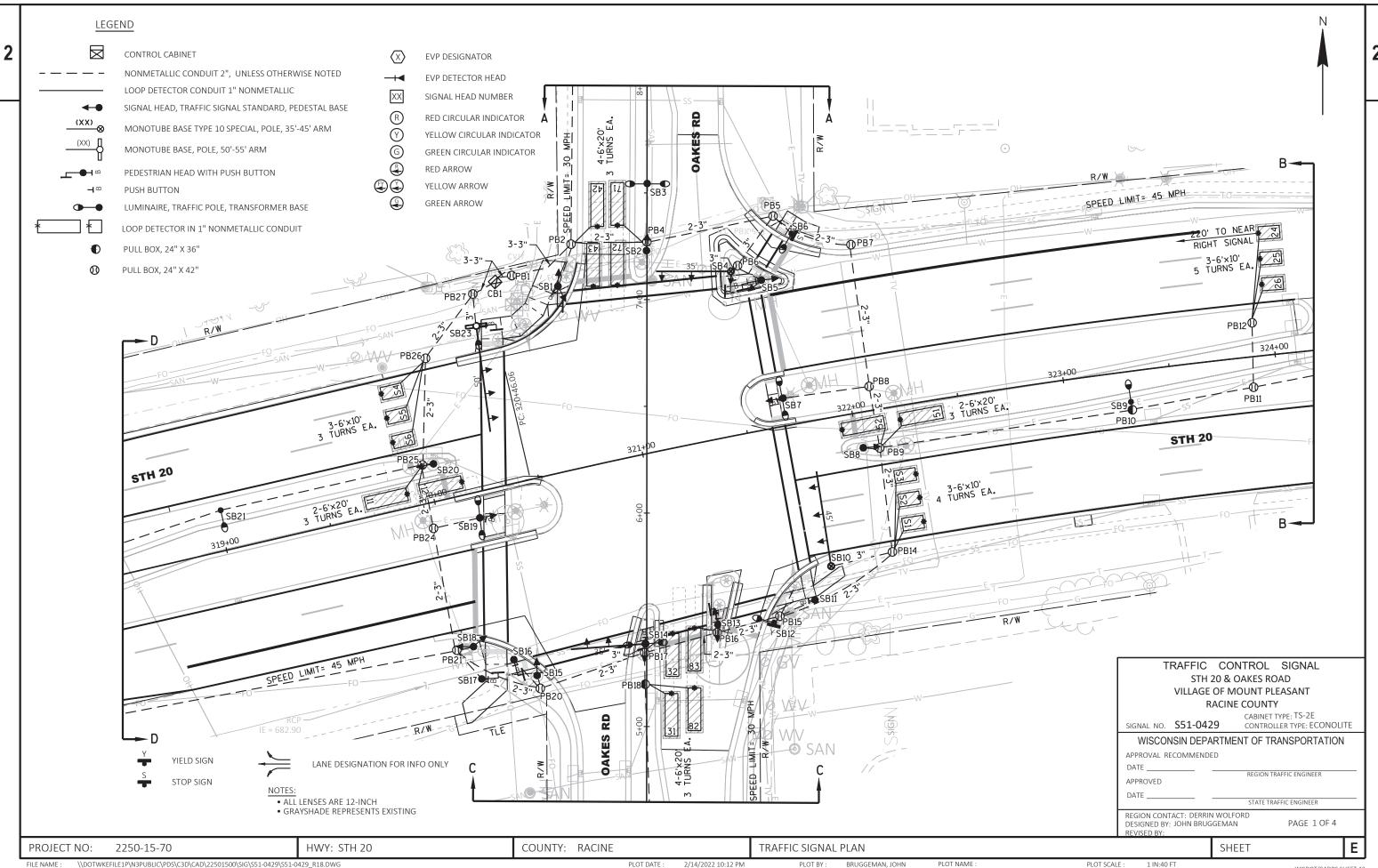
TRAFFIC CONTROL SIGNAL STH 20 & SUNNY SLOPE DRIVE VILLAGE OF MOUNT PLEASANT RACINE COUNTY

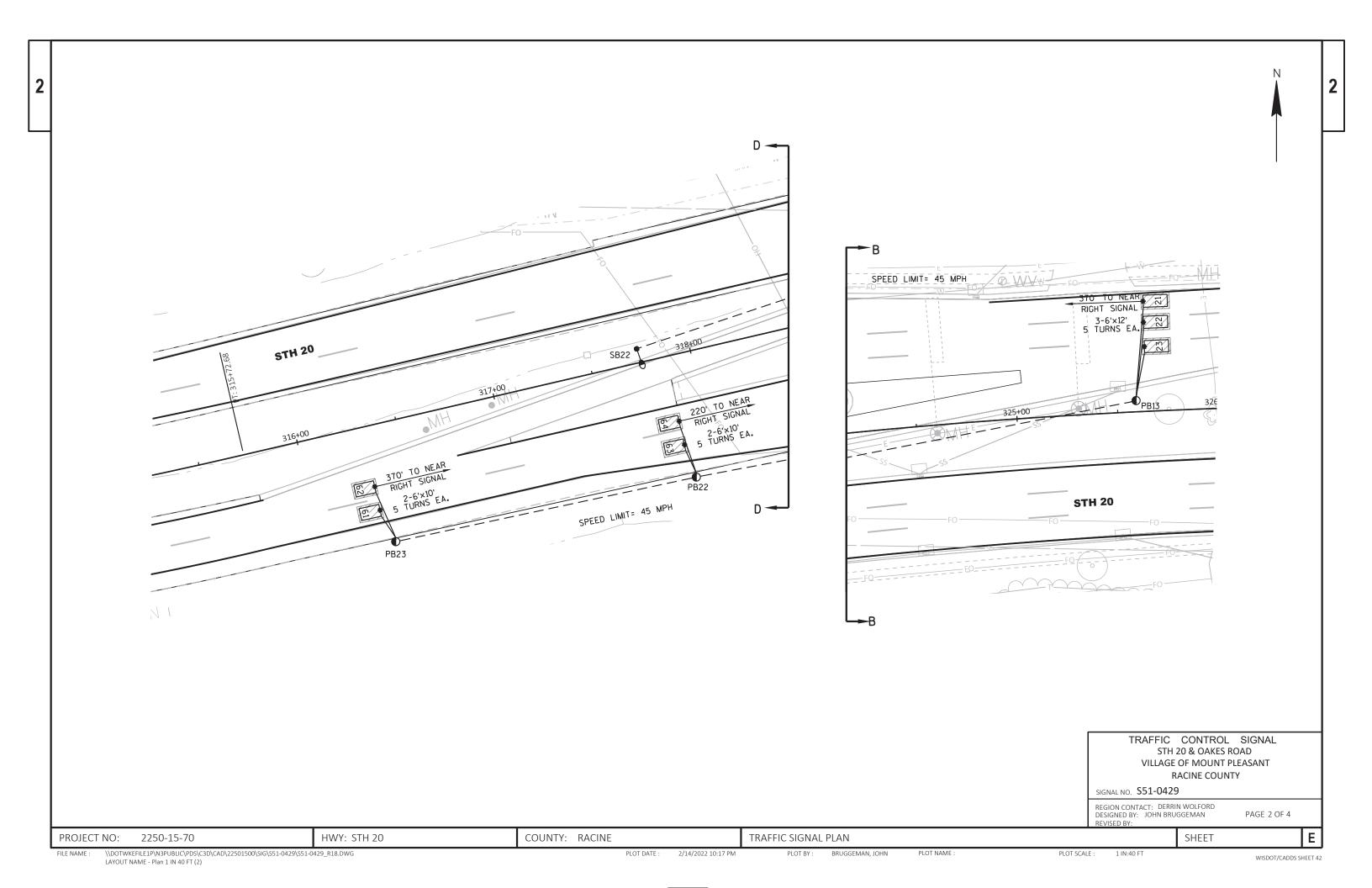
SIGNAL NO. **S51-0364**

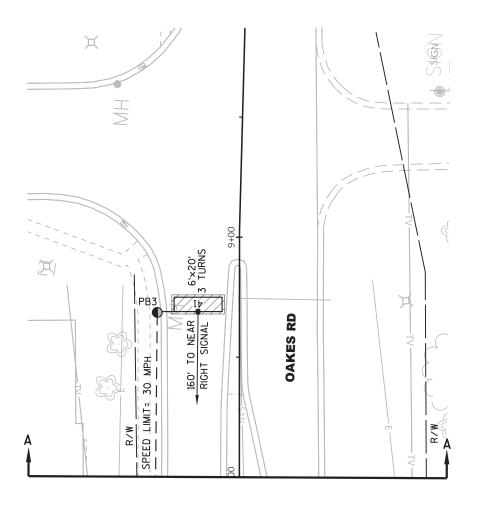
REGION CONTACT: DERRIN WOLFORD DESIGNED BY: REVISED BY: JOHN BRUGGEMAN

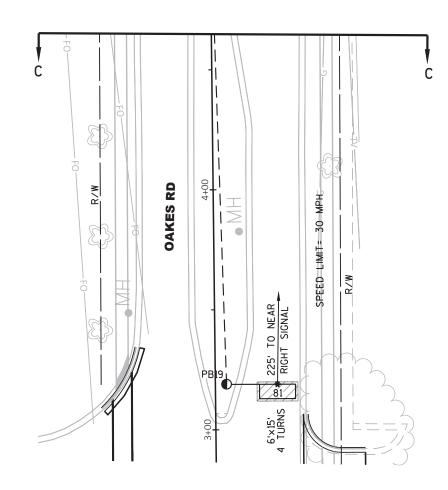
PAGE 2 OF 3

HWY: STH 20 COUNTY: RACINE TRAFFIC SIGNAL PLAN PROJECT NO: 2250-15-70 SHEET PLOT NAME : PLOT DATE : 2/14/2022 10:05 PM PLOT BY: BRUGGEMAN, JOHN PLOT SCALE : 1 IN:40 FT









TRAFFIC CONTROL SIGNAL STH 20 & OAKES ROAD VILLAGE OF MOUNT PLEASANT RACINE COUNTY

SIGNAL NO. **S51-0429**

REGION CONTACT: DERRIN WOLFORD DESIGNED BY: JOHN BRUGGEMAN REVISED BY:

PAGE 3 OF 4

HWY: STH 20 PROJECT NO: 2250-15-70

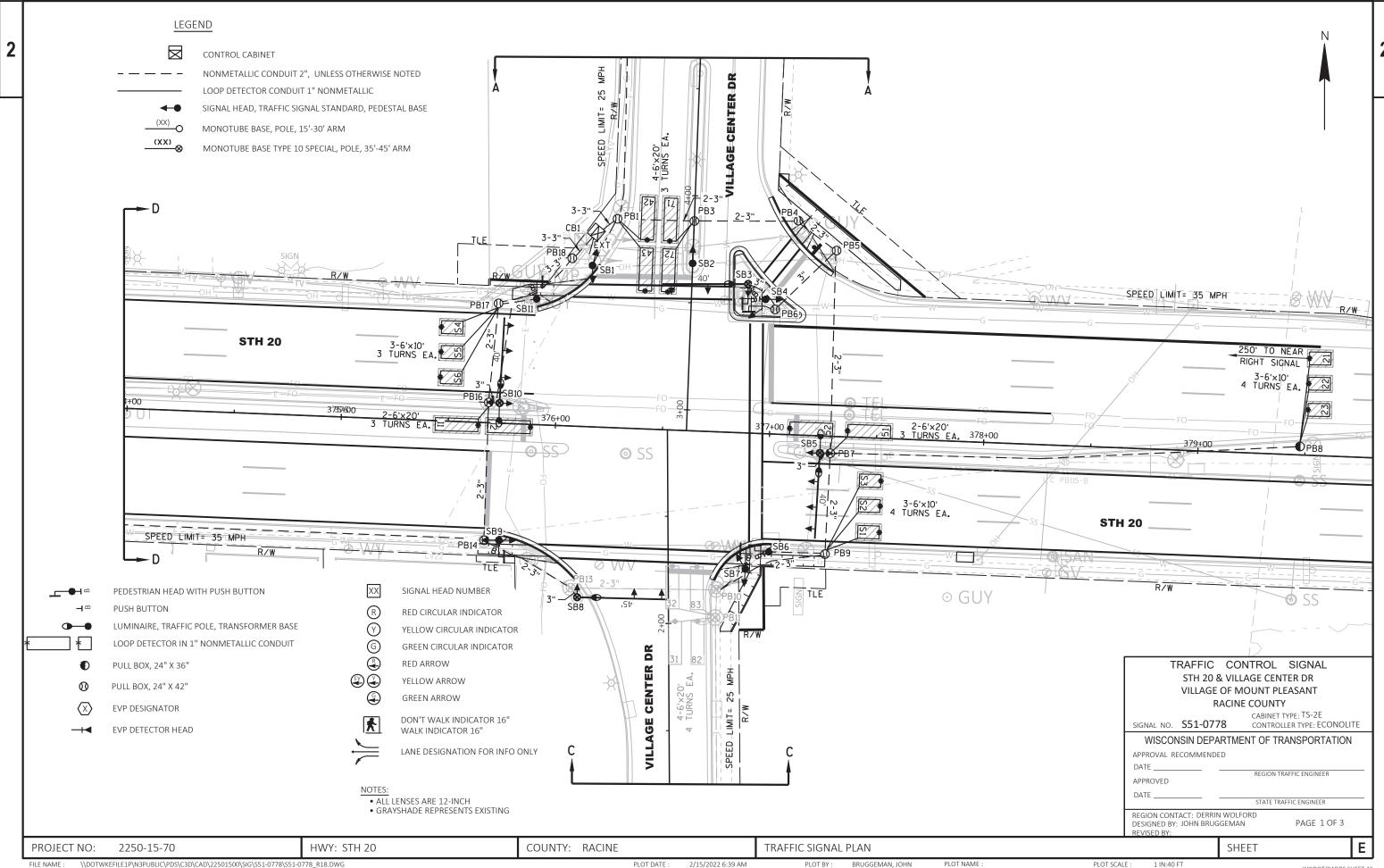
COUNTY: RACINE

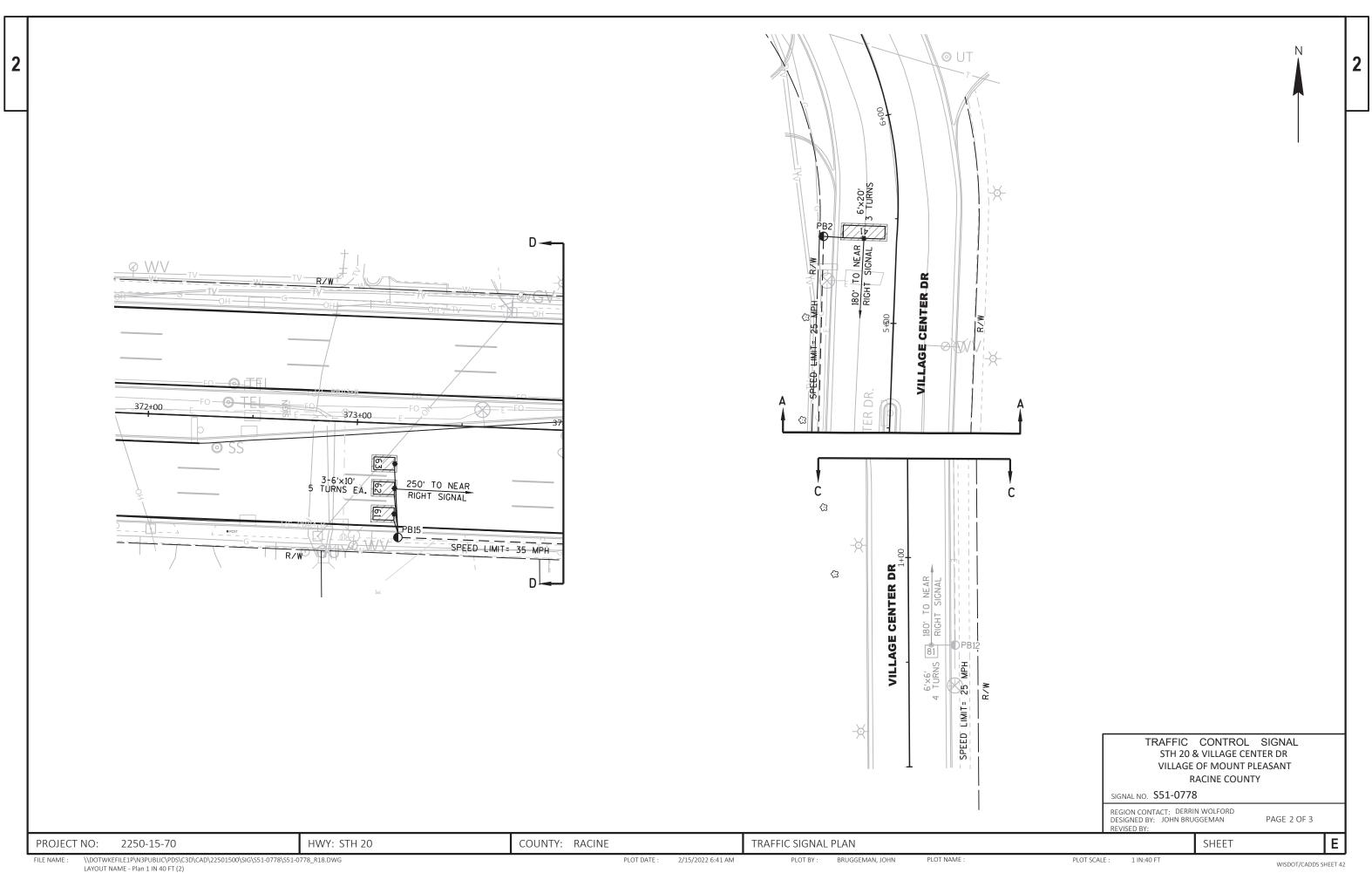
TRAFFIC SIGNAL PLAN

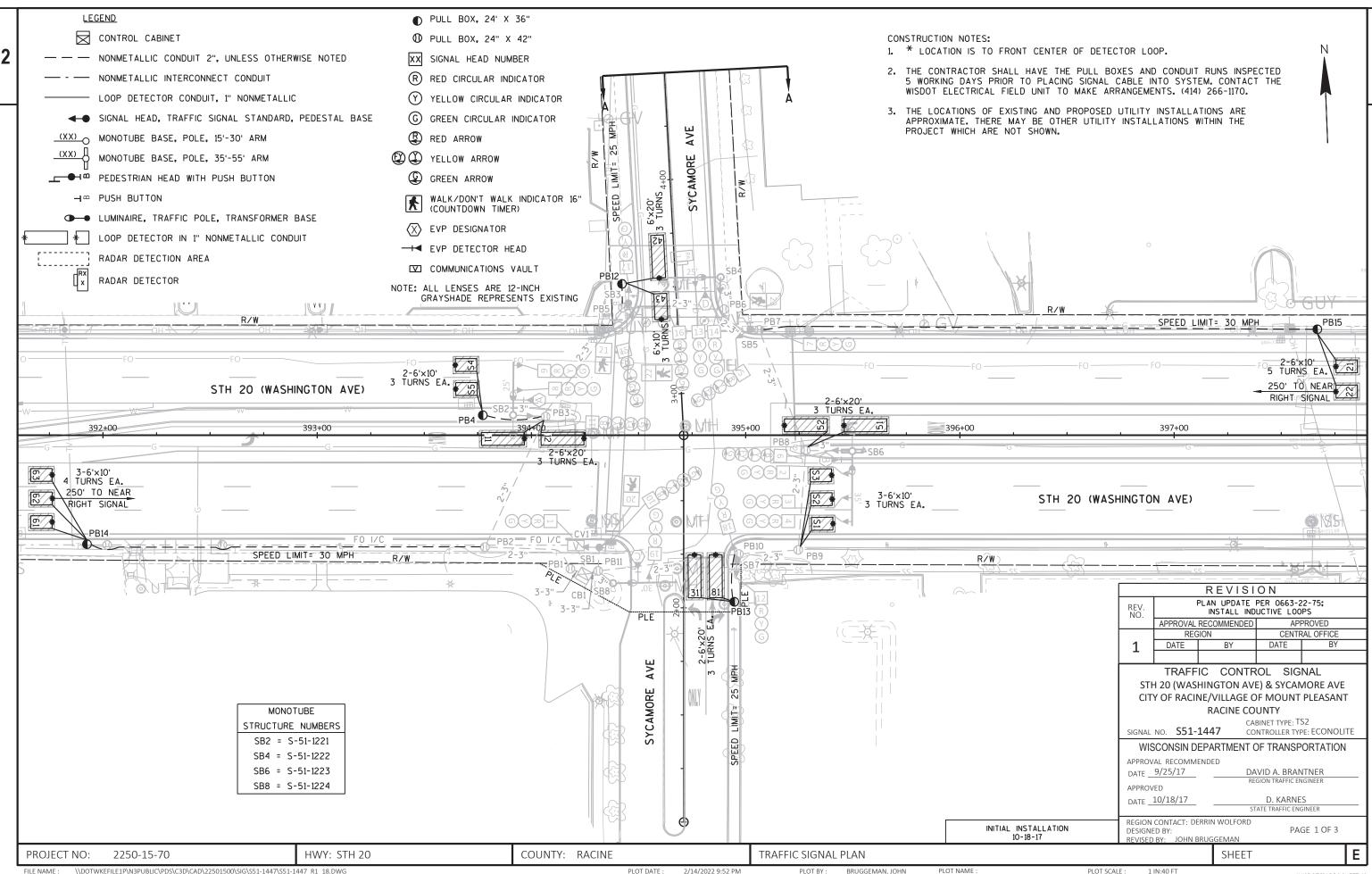
PLOT NAME :

PLOT SCALE : 1 IN:40 FT

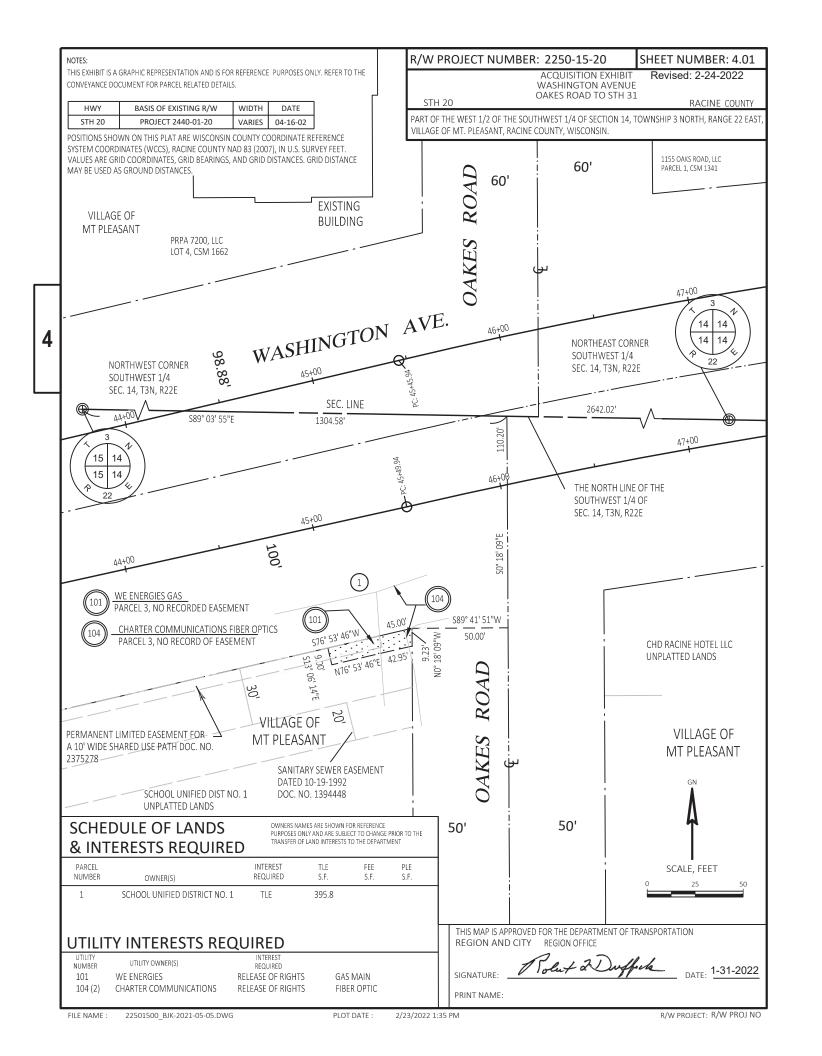
SHEET

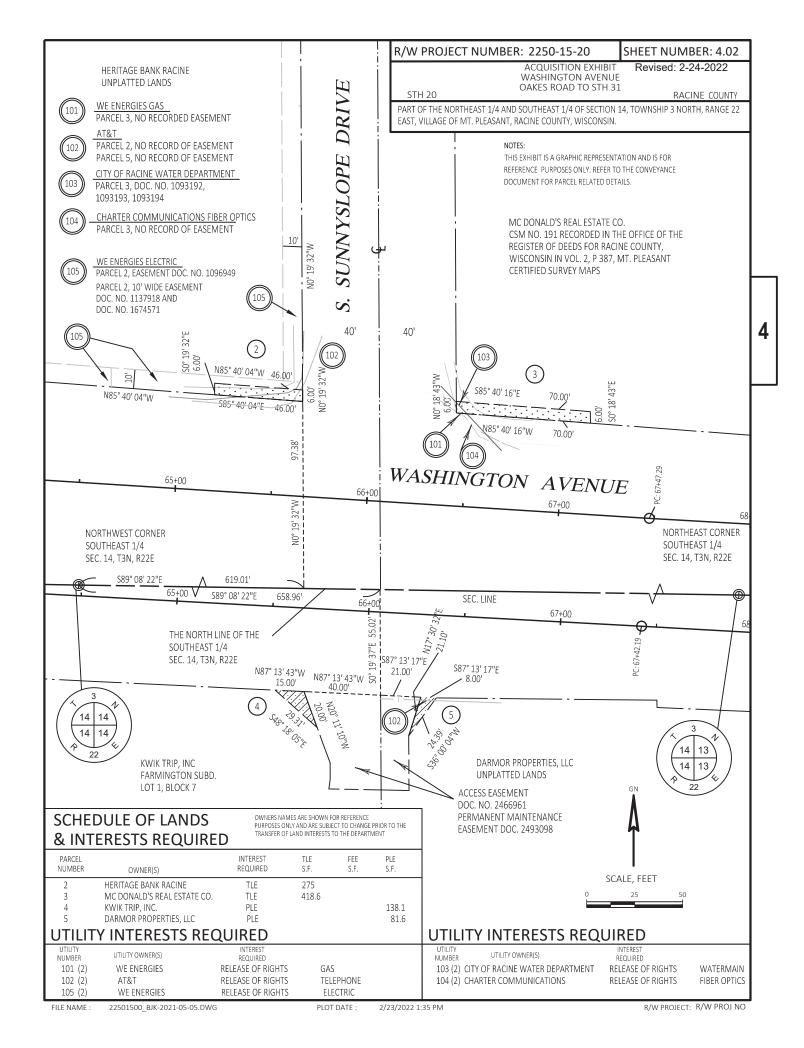


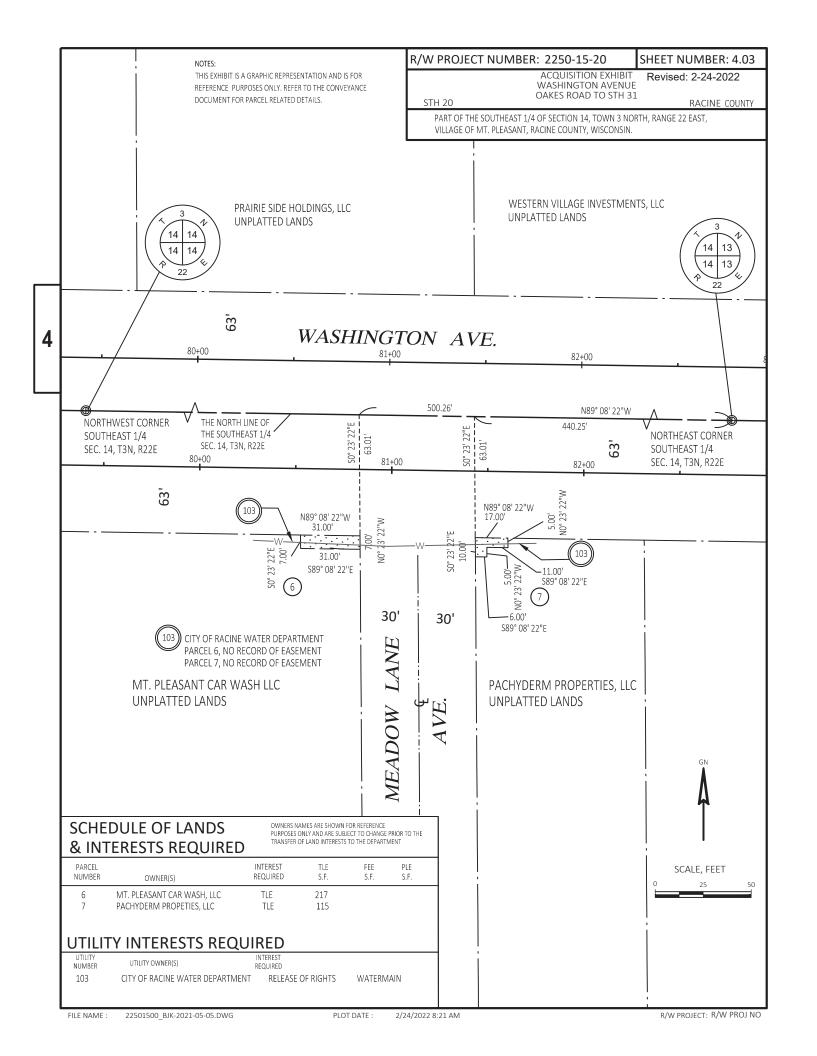


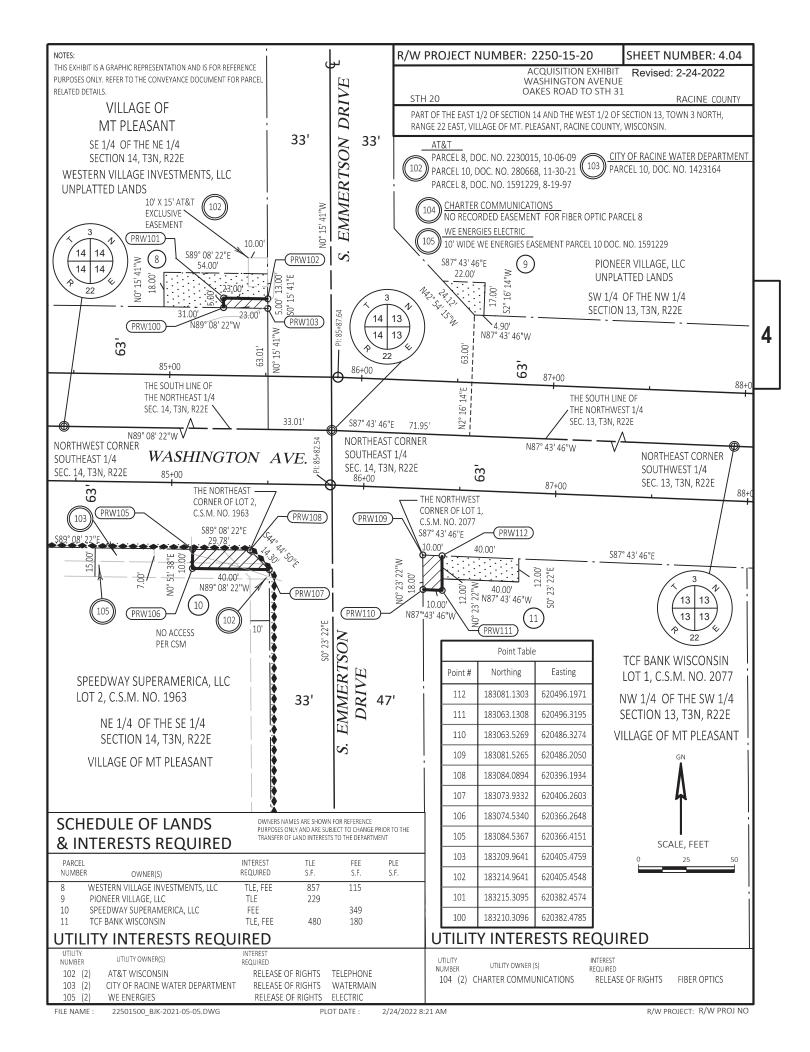


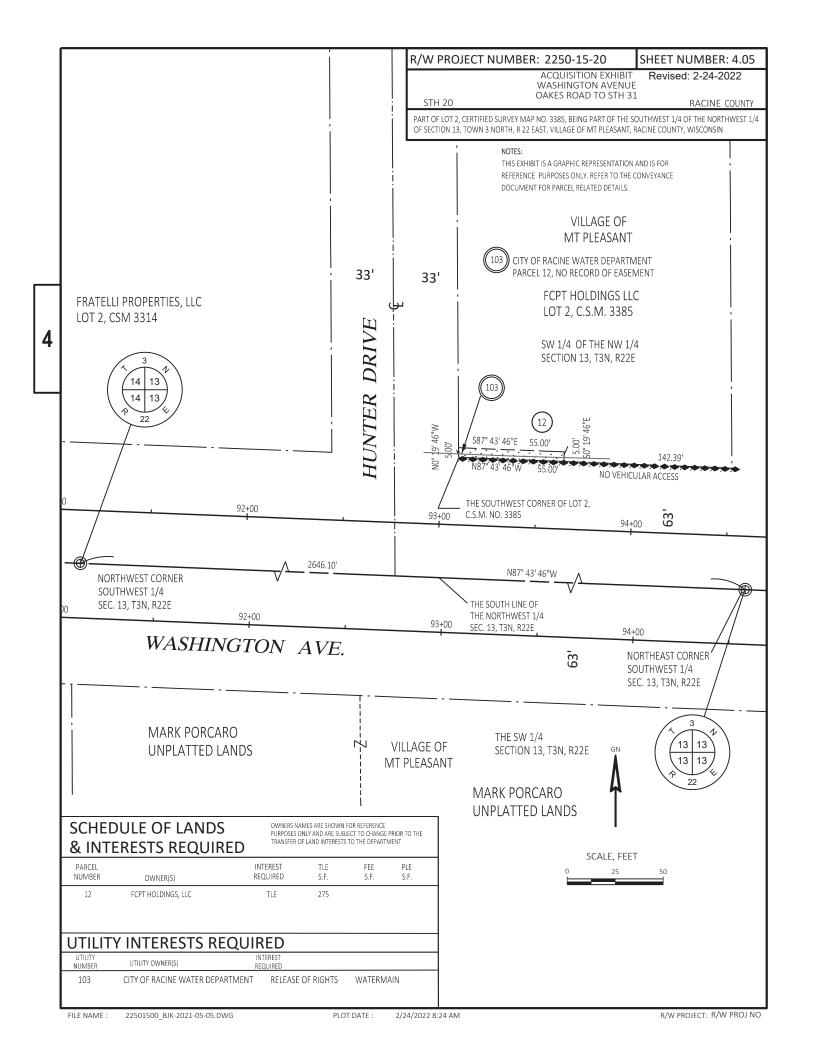
AVE SYCAMORE TRAFFIC CONTROL SIGNAL STH 20 (WASHINGTON AVE) & SYCAMORE AVE CITY OF RACINE/VILLAGE OF MOUNT PLEASANT RACINE COUNTY SIGNAL NO. **S51-1447** REGION CONTACT: DERRIN WOLFORD DESIGNED BY: REVISED BY: DERRIN WOLFORD PAGE 2 OF 3 Ε HWY: STH 20 COUNTY: RACINE TRAFFIC SIGNAL PLAN SHEET PROJECT NO: 2250-15-70 FILE NAME : PLOT DATE : 2/14/2022 9:53 PM PLOT BY: BRUGGEMAN, JOHN PLOT NAME : PLOT SCALE: 1 IN:40 FT WISDOT/CADDS SHEET 42

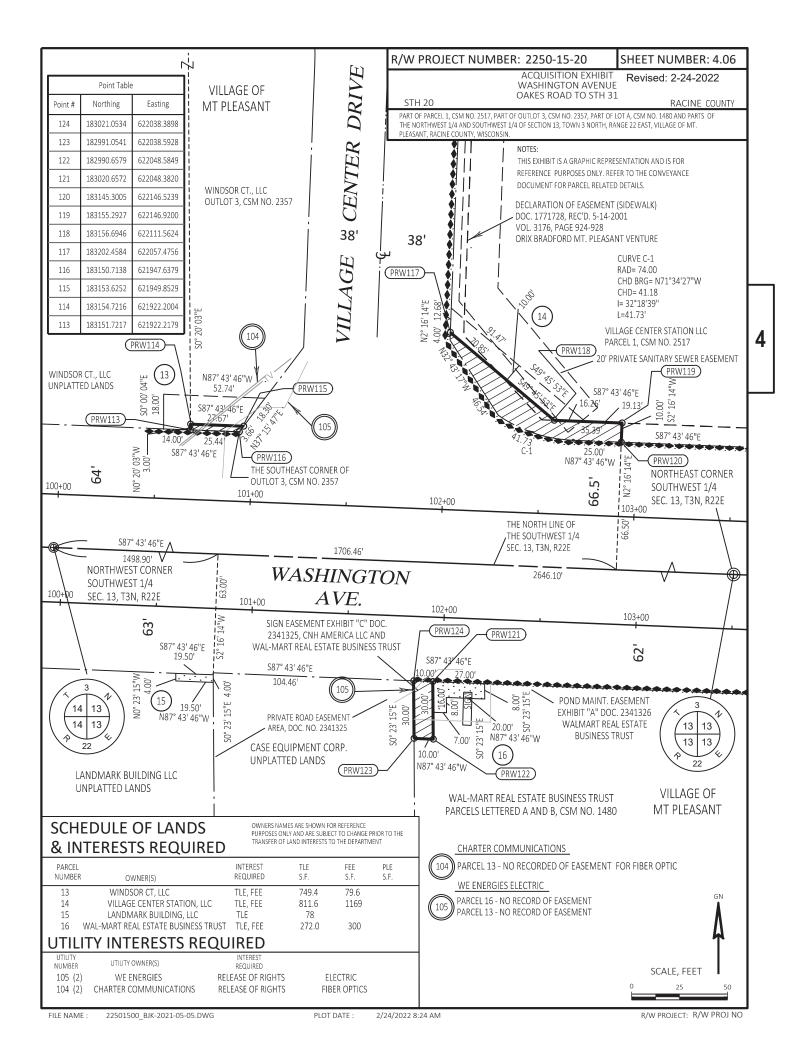


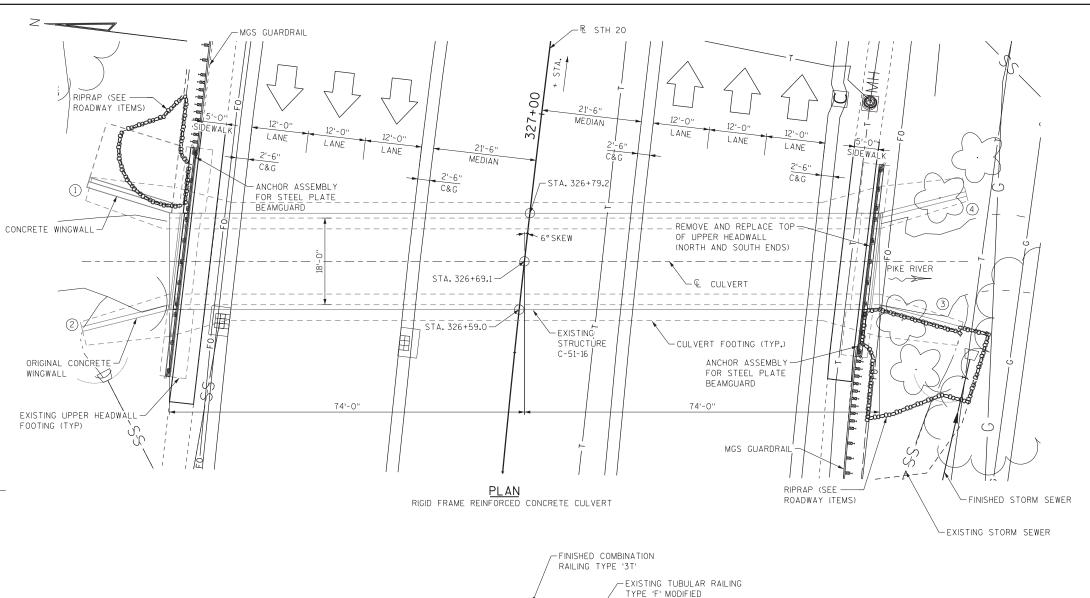












18'-0"

ELEVATION

LOOKING SOUTH AT UPSTREAM END

MGS GUARDRAIL

EXISTING STRUCTURE

8

CONCRETE WINGWALL -

REPLACED IN 2020 (NE CORNER ONLY) DESIGN DATA

LIVE LOAD:

ORIGINAL BOX DESIGN LOADING HS20

2250-15-70

STATE PROJECT NUMBER

MATERIAL PROPERTIES:

TRAFFIC DATA

AADT (2017) = 33400 DESIGN SPEED = 60 MPH

(X) INDICATES WINGWALL NUMBER

* EXISTING WINGWALL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-51-16" SHALL BE THE EXISTING GROUND LINE.

BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO THE EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

AT THE BACK FACE OF THE WINGWALL, ALL VOLUME WHICH CANNOT BE PLACED BEFORE WINGWALL CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:

AARON BONK, PE (608) 261-0261

CONSULTANT:

WILLIAM J. ZIPPEL, PE, SE ALFRED BENESCH & CO. 1300 W CANAL ST, SUITE 150

MILWAUKEE, WI 53233 (414) 308-1321

PRELIMINARY PLAN SUBMITTAL

LIST OF DRAWINGS

- 1. GENERAL PLAN & ELEVATION
- NORTH WALL DETAILS
- 3. SOUTH WALL DETAILS (NOT INCL THIS SUBMITTAL)
- 4. COMBINATION RAILING TYPE "3T" DETAILS

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 326+69	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-51-16	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	999
504.0100	CONCRETE MASONRY CULVERTS	CY	999
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	999
513.7093	RAILING STEEL TYPE 3T	LF	999
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	999
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EΑ	2
	NON-BID ITEMS		
	JOINT FILLER - 1". 1/2"		

ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL
203.0600.5	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 326+69	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-51-16	LS	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	999
504.0100	CONCRETE MASONRY CULVERTS	CY	999
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	999
513.7093	RAILING STEEL TYPE 3T	LF	999
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	999
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EΑ	2
	NON-BID ITEMS		
	JOINT FILLER - 1", 1/2"		

NO. DATE REVISION harred Benesch & Company 1300 West Canal Street, Sulte 150 Miwaukee, Wisconsin 53233 414-308-1310 Job No. 20298.0 8 STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

CHIEF STRUCTURES DESIGN ENGINEER DATE STRUCTURE C-51-16

STH 20 OVER PIKE RIVER TOWN/CITY/VILLAGE
YORKVILLE RACINE DESIGN SPEC. REHABILITATION DESIGNED JAP DESIGN WJZ DRAWN BJW PLANS

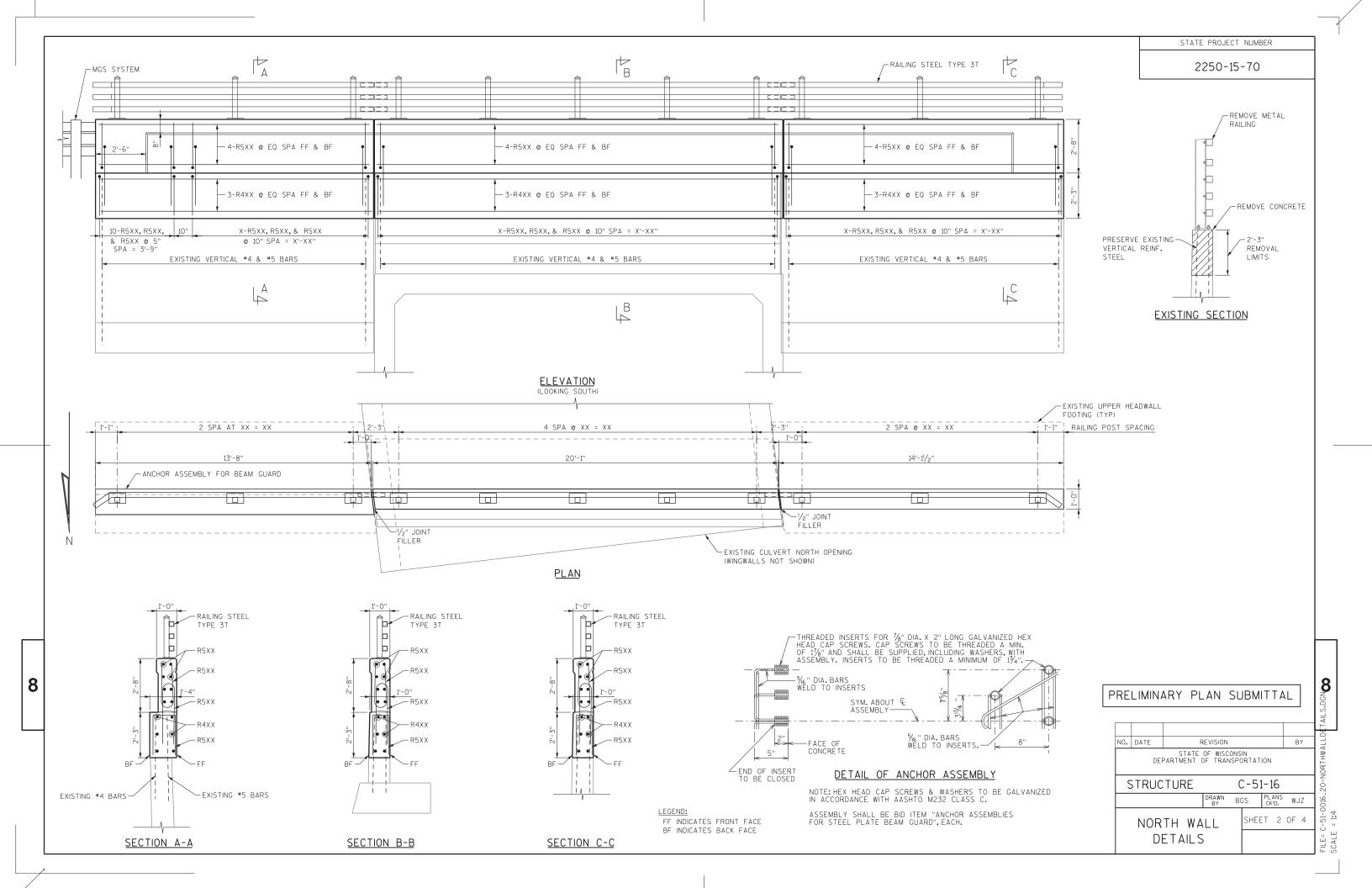
SHEET 1 OF 4 GENERAL PLAN & ELEVATION

THE EXISTING STRUCTURE IS A THREE SIDED RIGID FRAME CAST IN PLACE CONCRETE CULVERT WITH AN 18FT CLEAR OPENING AND PARALLEL WINGS ADDED ABOVE THE CULVERT ENDS.

TO BE REMOVED

ORIGINAL CONCRETE

WINGWALL



2250-15-70

- BASE PLATE $\frac{5}{8}$ " X 6" X 10" WITH $\frac{3}{4}$ " X $\frac{1}{2}$ " SLOTTED HOLES FOR THR'D RODS NO. 3. WELD TO NO. 4 AS SHOWN. SLOTS PARALLEL TO LONG SIDE OF PLATE.
- \bigcirc $1\!/_{\!4}$ " X 5" X 9" ANCHOR PLATE (GALVANIZED) WITH $1\!/_{\!6}$ " DIA. HOLES FOR THR'D. RODS NO. 3.
- (3) 5%" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ☆
- 4 structural tubing 3" x 3" x $\%_6$ " posts, place vertical. Weld to no.1, and use 1" dia. Holes (front and back) for bolt no.6.
- $\stackrel{6}{\mbox{6}}\%"$ DIA, A325 SLOTTED ROUND HEAD BOLT WITH HEX NUT, $^3\!\!/_6$ " X $1\!\!/_2$ " X $1\!\!/_2$ " X $1\!\!/_2$ "
- 9 RECTANGULAR SLEEVE FABRICATED FROM $\frac{3}{6}$ " PLATES, PROVIDE "SLIDING FIT".
- (1) RECTANGULAR SLEEVE FABRICATED FROM 3/6" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)
- ☆ ALTERNATIVE ANCHORAGE: 4 EQUIVALENT STAINLESS STEEL CONCRETE ADHESIVE ANCHORS 5%-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE 3T", WHICH SHALL INCLUDE ALL STEEL

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ENDS OF STRUCTURAL TUBING SHALL BE SAWED.GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.

ALL PLATES, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATE NO.1, WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

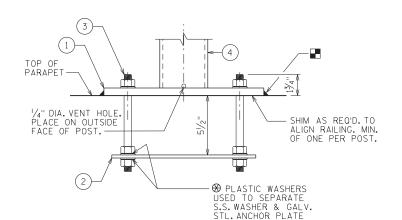
■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO.3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO.6 BLAST CLEANING PER SSPC SPECIFICATIONS.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 TO 5 POSTS.



"/₁₆ " FOR ANCHORAGE FOR RAIL POSTS FÖR 5/8" DIA. THR'D. RODS

— GALVANIZED

· 🕁

11/2" 11/2"

· 🕁

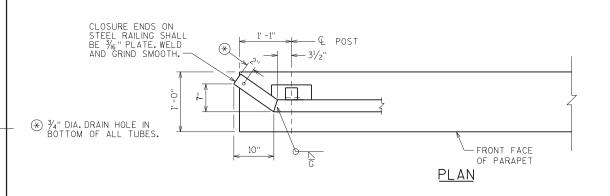
-Φ-

ANCHOR PLATE

4" DIA.

" DIA. HOLES

☆NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



-SDWK. SIDE

√ POST

3/4" X 11/2" SLOTTED HOLES

FOR 5/8" DIA. THR'D. RODS

OF PARAPET

- & BASE PLATE

−Œ POST

11/2" 11/2" | 11/2" | 11/2"

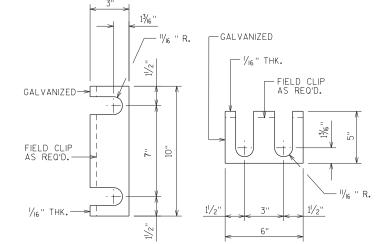
TYPICAL RAIL POST BASE PLATE

OUTSIDE EDGE

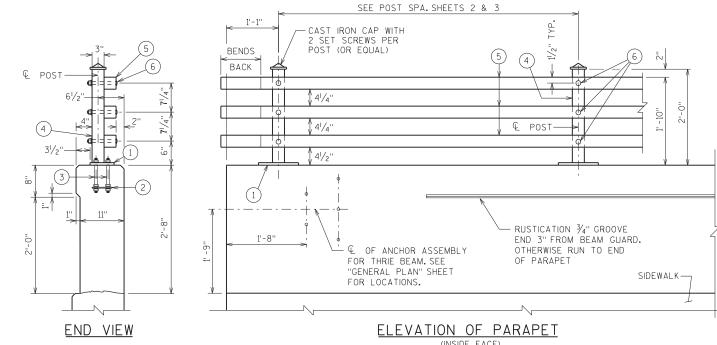
1/2

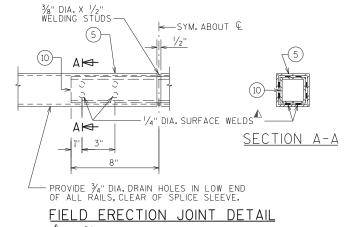
OF PARAPET

8

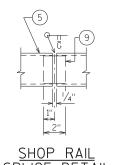


RAIL POST SHIM DETAIL (2 SETS PER POST)

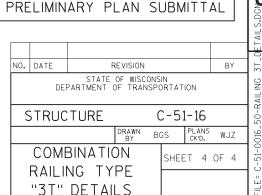




⚠ MIN. 58" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

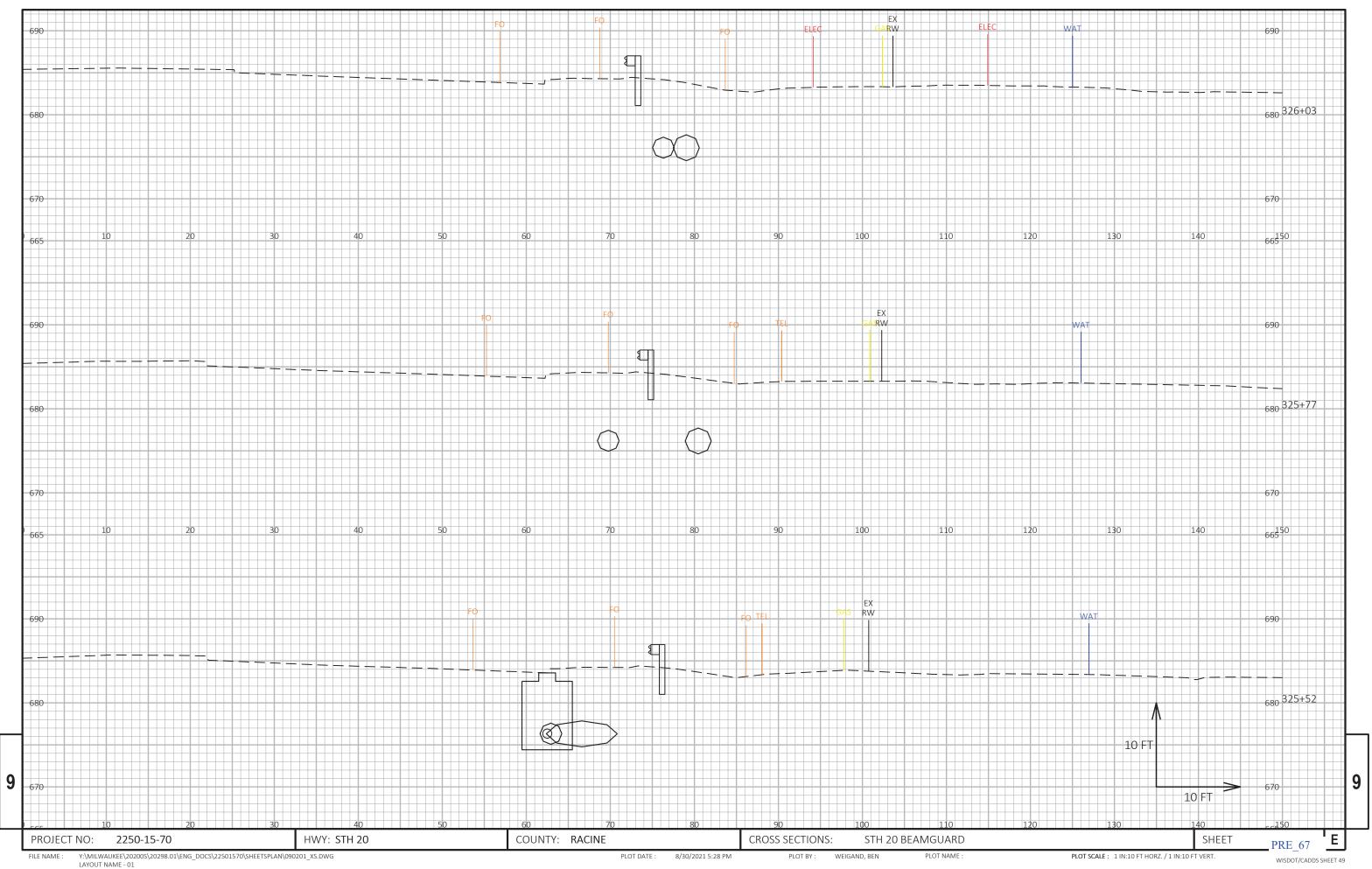


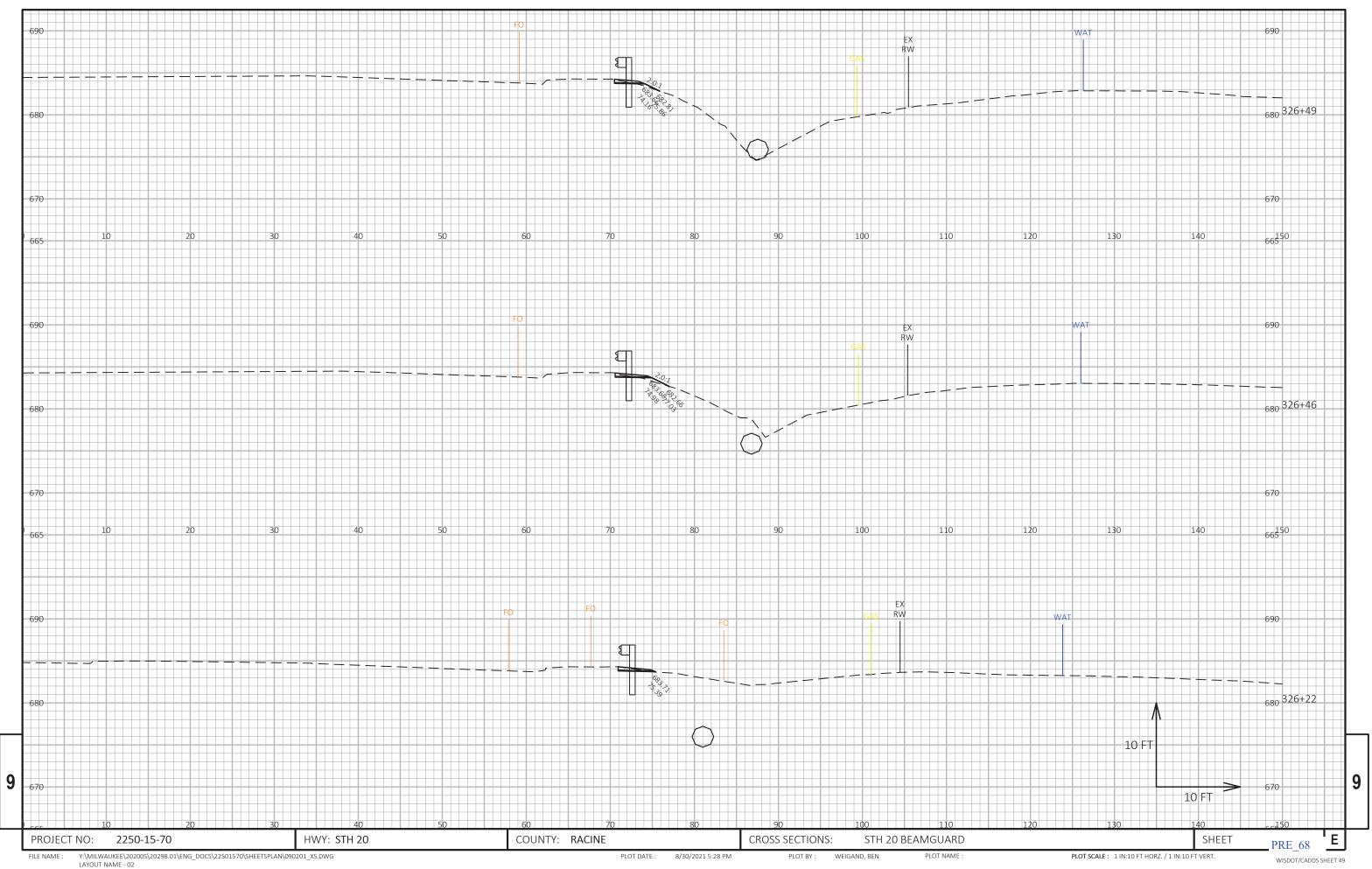
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



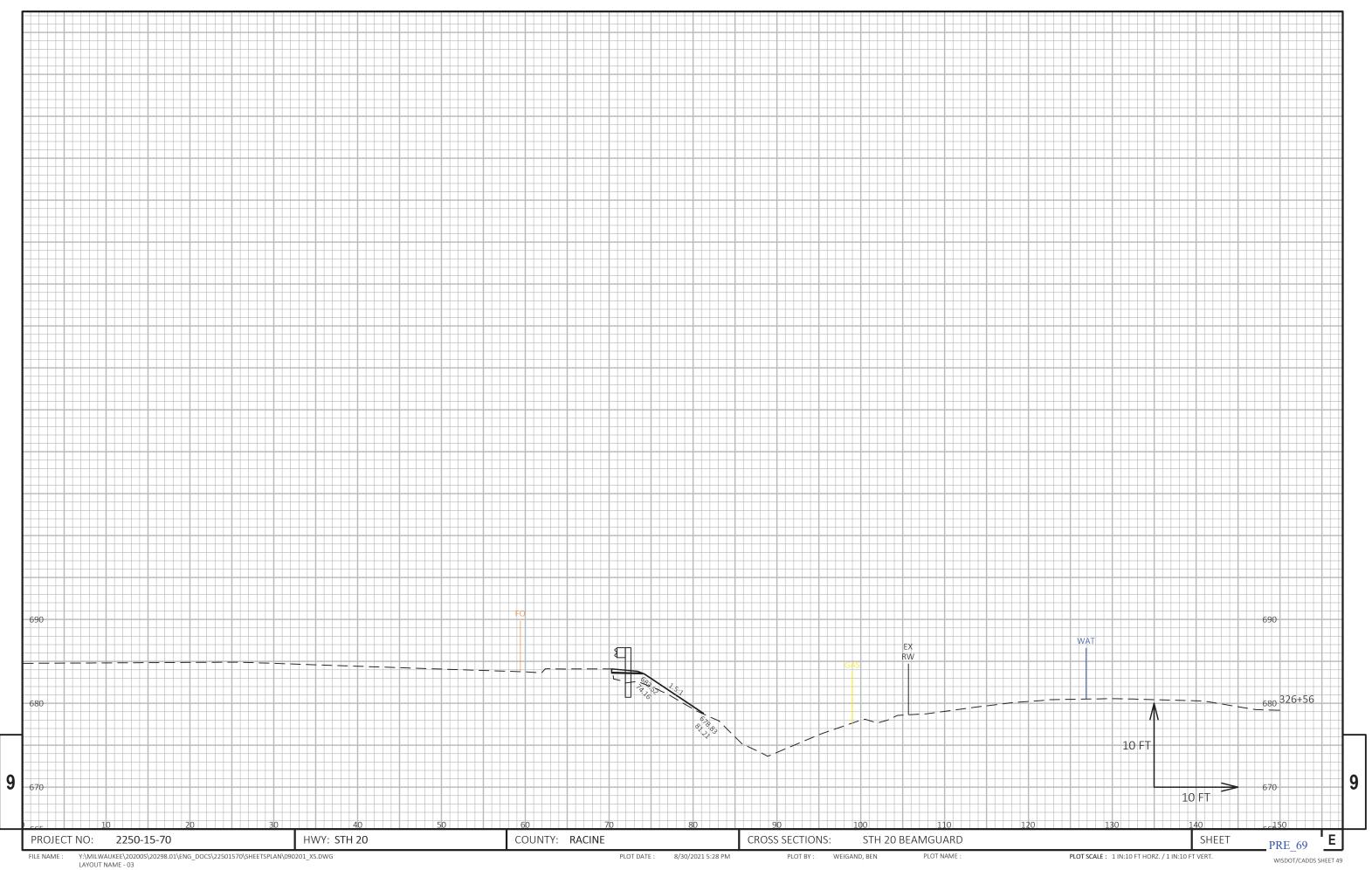
LEGEND

SPLICE DETAIL

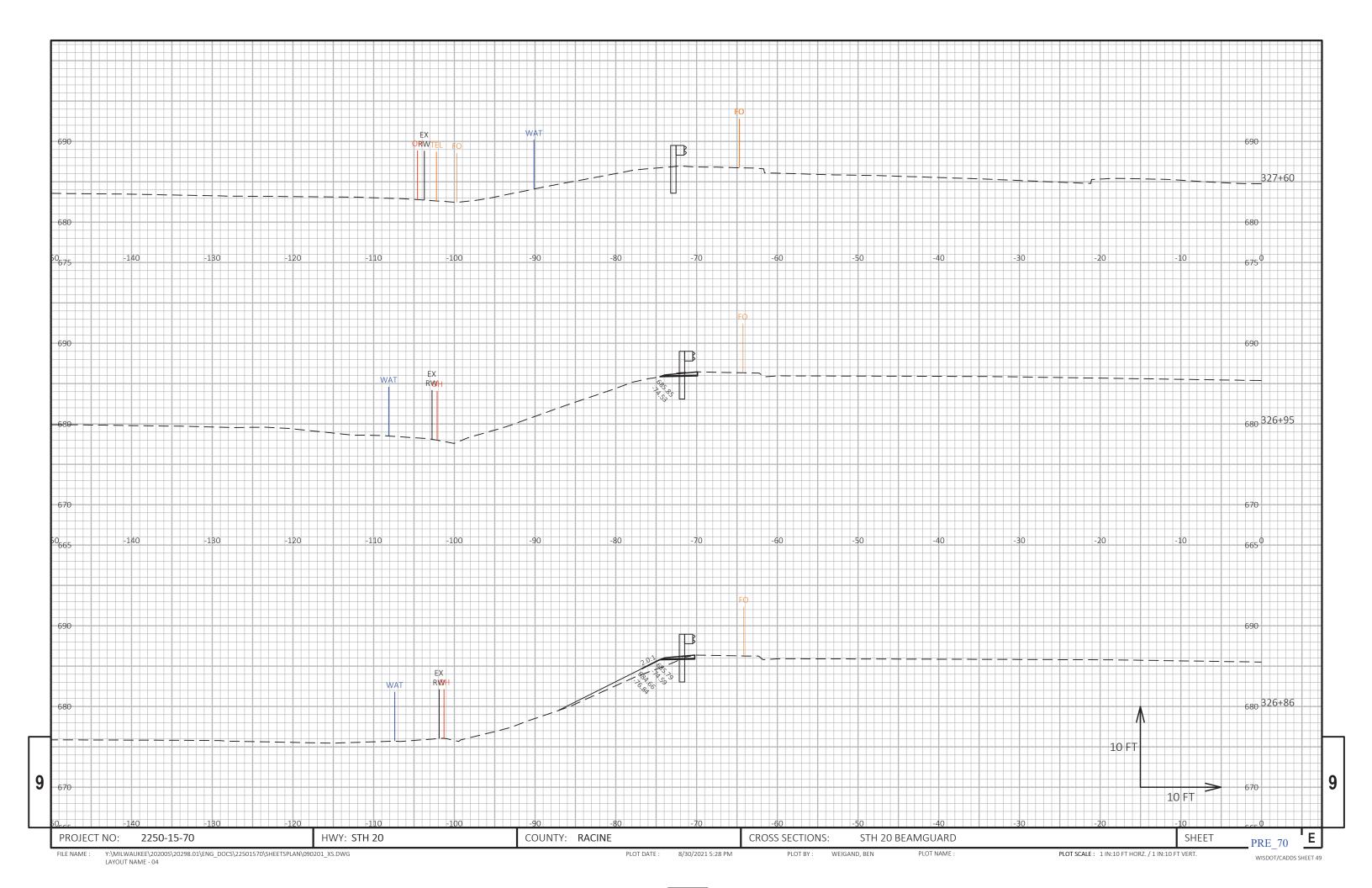


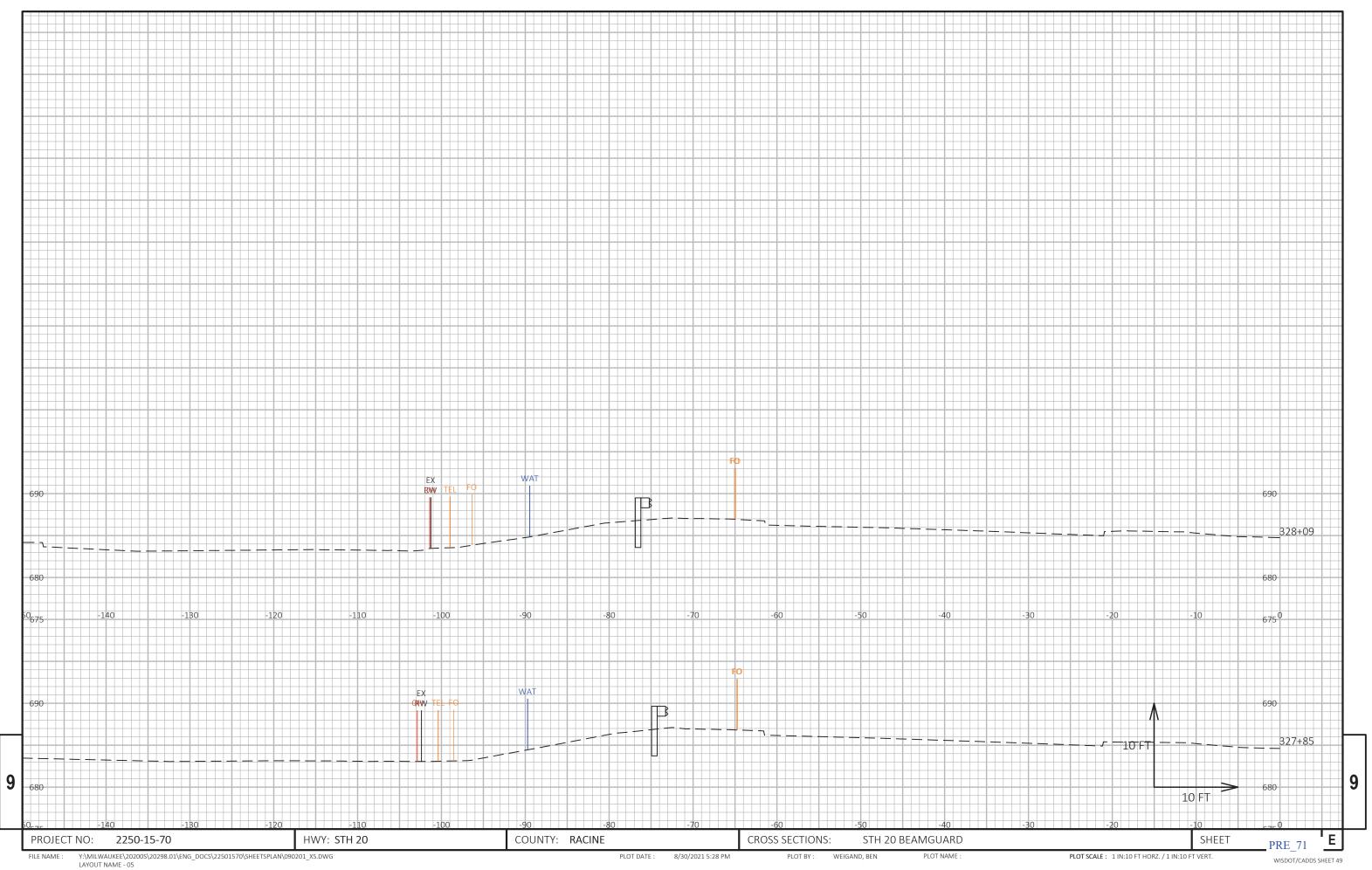


LATOUT NAME - 02



LATOUT NAIVIE - US





Design Project ID: 2250-15-00 Construction Project ID: 2250-15-70

Washington Ave. – Village of Mount Pleasant
Oakes Rd – WIS 31
WIS 20
Racine County

Project Synopsis

Description of Proposed Action

The Wisconsin Department of Transportation is preparing plans to rehabilitate a 1.6-mile segment of WIS 20 from Oakes Rd to WIS 31. This resurfacing project will mill 3-inches of asphalt and 1-inch of concrete pavement. The underlying concrete will be base patched and joint and crack repair will be performed as needed.

Existing traffic signals and lighting at Oakes Road, Sunnyslope Drive, Emmertsen Road, Village Center Drive, and Sycamore Avenue will be updated, along with curb ramps and bus stop locations. There will be minor right of way acquisition on this project because of the curb ramps and traffic signal improvements.

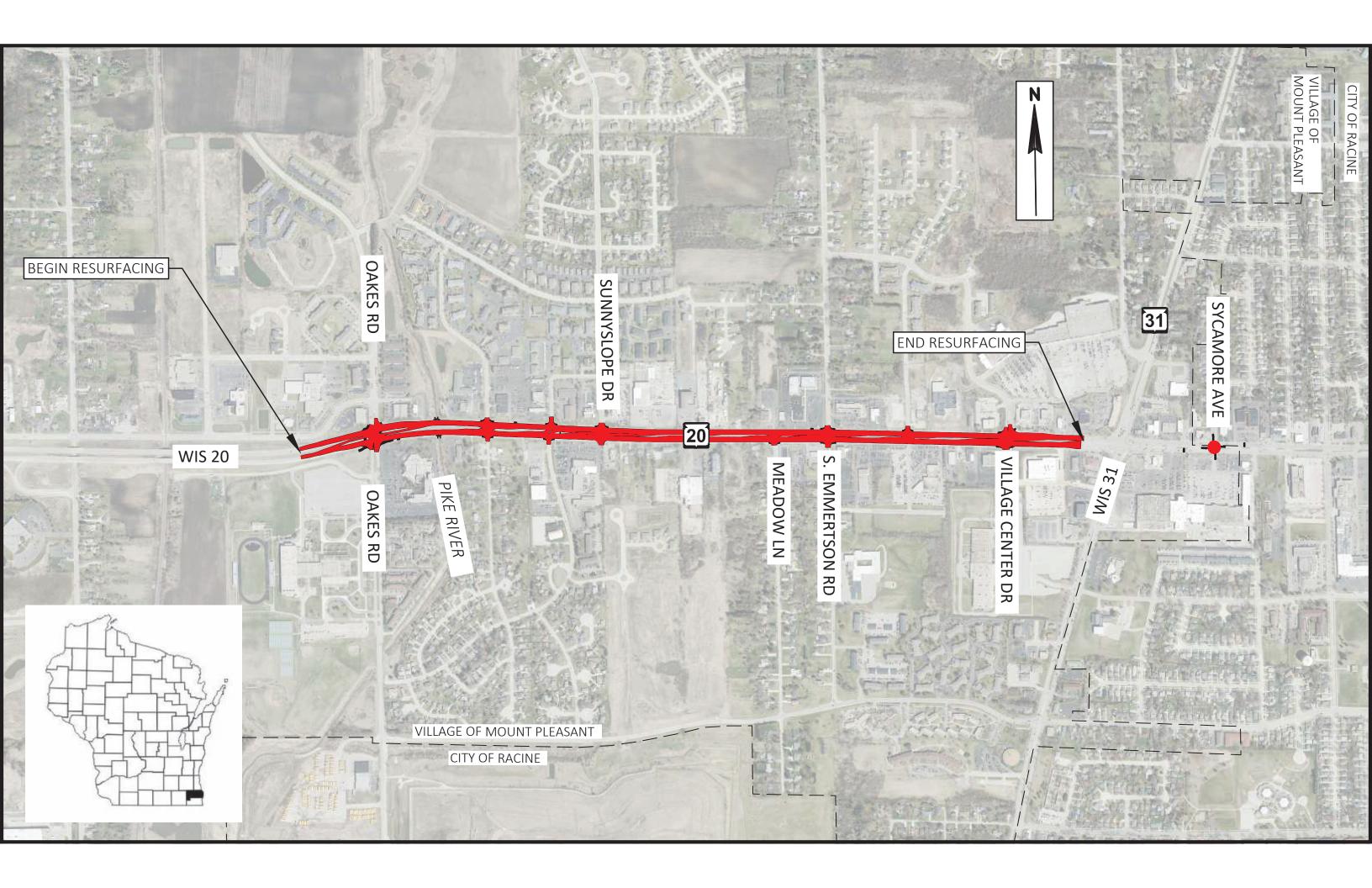
New pavement marking and permanent signing will be installed, and the beam guard at box culvert C-51-016 over the Pike River will be updated.

Construction of this project is tentatively scheduled to occur in 2023.

Traffic Control

The project will be constructed in stages, with a minimum of one access point remaining open to adjacent properties.

Through traffic will be detoured via CTH V to CTH C to WIS 31.



ID 2340-10-70
Washington Ave. – Village of Mount Pleasant
Oakes Rd – STH 31
STH 20
Racine County

List of Potential Utility Conflicts

This listing may not be all-inclusive. Final responsibility for identifying conflicts remains with the utility owner. All stationing and offsets are measured from the STH 20 reference line unless noted otherwise.

Poles

- 1. STA 360+52, 67' LT (S51-0268/SB5 Emmertsen Rd)
- 2. STA 360+54, 71' LT (S51-0268/PB5 Emmertsen Rd)

Underground Gas Lines

- 1. STA 341+38, 70' RT (S51-0364/PB2 Sunnyslope Rd)
- 2. STA 341+78, 66' RT (S51-0364/CB1 Sunnyslope Rd)
- 3. STA 360+28, 56' RT (S51-0268/SB1 Emmertsen Rd)
- 4. STA 361+22, 72' RT (S51-0364/PB13 Emmertsen Rd)
- 5. STA 361+45, 56' RT (S51-0268/SB11 Emmertsen Rd)
- 6. STA 375+69, 54' RT (S51-0778/PB14 Village Center Dr)
- 7. STA 375+76, 55' RT (S51-0778/SB9 Village Center Dr)
- 8. STA 375+89, 59' LT (S51-0778/SB11 Village Center Dr)
- 9. STA 376+26, 250' LT (S51-0778/PB2 Village Center Dr)

Underground Fiber Optic Lines

- 1. STA 320+19, 80' RT (S51-0429/SB16 Oakes Rd)
- 2. STA 320+39, 91' LT (S51-0429/PB27 Oakes Rd)
- 3. STA 320+79, 86' LT (S51-0429/SB1 Oakes Rd)
- 4. STA 325+80, 70' RT (Storm sewer @ Pike River bridge beam guard)
- 5. STA 327+44, 70' LT (Storm sewer @ Pike River bridge beam guard)
- 6. STA 340+25, 11' RT (S51-0364/PB8 Sunnyslope Rd)
- 7. STA 340+40, 10' RT (S51-0364/SB5 Sunnyslope Rd)
- 8. STA 360+07, 9' LT (S51-0268/PB3 Emmertsen Rd)
- 9. STA 360+15, 9' LT (S51-0268/SB2 Emmertsen Rd)
- 10. STA 360+52, 316' LT (S51-0268/PB7 Emmertsen Rd)
- 11. STA 375+68, 9' LT (S51-0778/PB16 Village Center Dr)
- 12. STA 375+74, 9' LT (S51-0778/SB10 Village Center Dr)

Underground Telephone Lines

- 1. STA 320+51, 93' LT (S51-0429/CB1 Oakes Rd)
- 2. STA 320+58, 95' LT (S51-0429/PB1 Oakes Rd)
- 3. STA 341+49, 67' RT (S51-0361/SB1 Sunnyslope Rd)
- 4. STA 341+51, 65' LT (S51-0364/SB11 Sunnyslope Rd)
- 5. STA 360+52, 316' LT (S51-0268/SB11 Emmertsen Rd)

Underground Water Lines

- 1. STA 321+70, 69' LT (S51-0429/SB5 Oakes Rd)
- 2. STA 361+45, 56' RT (S51-0268/SB10 Emmertsen Rd)
- 3. STA 375+69, 54' RT (S51-0778/PB14 Village Center Dr)
- 4. STA 375+76, 55' RT (S51-0778/SB9 Village Center Dr)
- 5. STA 376+96, 63' LT (S51-0778/SB4 Village Center Dr)
- 6. STA 377+00, 58' LT (S51-0778/PB6 Village Center Dr)
- 7. STA 377+02, 55' RT (S51-0778/SB6 Village Center Dr)
- 8. STA 377+28, 54' RT (S51-0778/PB9 Village Center Dr)

Underground TV Lines

1. STA 321+67, 83' RT (S51-0429/SB11 – Oakes Rd)

TUMS Utility Owners List - As of January 20, 2022

RE: Design Project ID: 2250-15-00 Construction Project ID: 2250-15-70

WASHINGTON AVE - VIL OF MT PLEASANT

OAKES RD TO STH 31 STH 020, Racine County

Dale DeFever AT&T Local Network - Communication Line 39869 Linn St Canton, MI 48147 (586) 242-2671 dd2579@att.com

Trans 220 Mailbox
ATC Management, Inc. - Electricity-transmission
801 O'keefe Road
De Pere, WI 54115
(920) 338-6582
dl-ATCDOTNotifications@atcllc.com

Tony Beyer
Mount Pleasant Storm Water Dist. 1 - Sewer
8811 Campus Dr
Mount Pleasant, WI 53406
(262) 664-7849
tbeyer@mtpleasantwi.gov

Mike Gitter
Racine Wastewater Utility - Sewer
800 Center St
Racine, WI 53403
(262) 636-9430
mike.gitter@cityofracine.org

Dave Yopps Spectrum - Communication Line 1320 N. Dr. Martin Luther King Jr Drive Milwaukee, WI 53212 (414) 277-4281 dave.yopps@charter.com

Eric Perea
Wisconsin Department of Transportation - Street Lighting
141 NW Barstow Street
Waukesha, WI 53188
(262) 574-5422
Eric.Perea@dot.wi.gov

Mike Vanboven AT&T Wisconsin - Communication Line 411 7th Street Racine, WI 53403 (262) 676-3958 MV3658@ATT.COM

Richard Trgovec Midwest Fiber Networks LLC - Communication Line 6070 North Flint Rd Glendale, WI 53209 (414) 459-3554 rtrgovec@midwestfibernetworks.com

Lori Ketter
PaeTec Communications, LLC - Communication Line
314 N. Danz Avenue
Green Bay, WI 54302-3526
(414) 274-9215
Lori.Ketter@windstream.com

Mike Gitter Racine Water Works Commission - Water 800 Center St Racine, WI 53403 (262) 636-9430 mike.gitter@cityofracine.org

Tony Beyer Village of Mount Pleasant - Sewer 8811 Campus Dr Mount Pleasant, WI 53406 (262) 664-7849 tbeyer@mtpleasantwi.gov

Derrin Wolford Wisconsin Department of Transportation - Wisconsin Signal 141 NW Barstow Street Waukesha, WI 53188 (262) 521-4409 derrin.wolford@dot.wi.gov We Energies Utility Coordinator
We Energies - Electricity
500 S 116th Street
West Allis, WI 53214
(414) 221-2738
We-Utility-relocations@we-energies.com

Lori Ketter
Windstream KDL, LLC - Communication Line
314 N. Danz Avenue
Green Bay, WI 54302-3526
(414) 274-9215
Lori.Ketter@windstream.com

We Energies Utility Coordinator
We Energies - Gas/Petroleum
500 S 116th Street
West Allis, WI 53214
(414) 221-2738
We-Utility-relocations@we-energies.com