Section No.

Section No.

TOTAL SHEETS =

# SEPTEMBER 2021 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT 1550-04-72 WISC 2021497 1550-04-82 WISC 2021498

PLAN OF PROPOSED IMPROVEMENT

**POLK COUNTY** 

**CLEAR LAKE - CUMBERLAND** 

CTH J - USH 8

**USH 63** 

**POLK** 

STATE PROJECT NUMBER

1550-04-72

T-33-N

AVE 17

Chelstrom Ky 21 20

**CLEAR LAKE - CUMBERLAND** 

CTH J - USH 8

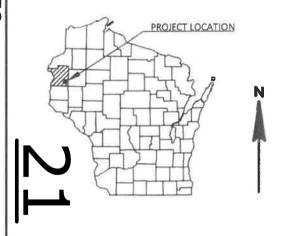
**USH 63** 

STATE PROJECT NUMBER

1550-04-82

BARRON COUNTY

**POLK** 



Estimate of Quantities

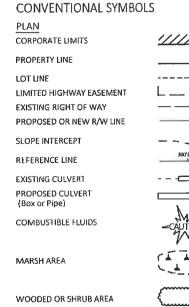
Cross Sections

Plan and Profile (Includes Erosion Control Plan)

### DESIGN DESIGNATION

A.A.D.T. = 6200 2022 A.A.D.T. = 6800 D.H.V. = 61/39 D.D. = 9.5% DESIGN SPEED = 55 MPH

= 1,540,300



PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC UTILITY PEDESTAL POWER POLE

24 B 1/2 5 19 Barbo i mulson. Bass  $\bigcirc J_{32}$ 33 T-33-N LAYOUT SCALE TOTAL NET LENGTH OF CENTERLINE = 1550-04-72 / 82 = 7.002 MI

**BEGIN PROJECT** 1550-04-72, 1550-04-82 STA 443+78.00 Y = 237,174.549X = 572,596.125

**END PROJECT** 

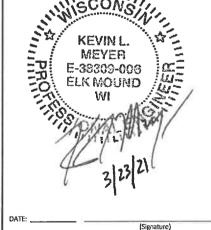
STA 813+50.00

1550-04-72, 1550-04-82

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNT COORDINATES, POLK COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES GRID DISTANCES MAY BE USED AS GROUND DISTANCES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012)





STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY		
Surveyor	WISDOT	
Designer	WISDOT/CORRE, INC.	
Project Manager	NICHOLAS PITSCH	
0-1	TOU YANG	

DAVID KOEPP

E

APPROVED FOR THE DEPARTMENT Dave Koepp DN C-US, Endavid Rospopeldot.

FILE NAME: C:\OD\CORRE, INC\PROJECTS - DOCUMENTS\WI - NW REGION\1550-04-02 POLK CO\_USH 63\500\_CADD\501\_C3D\_2018\15500402\SHEETSPLAN\010101-TI.OWG

3/22/2021 11:46 AM

Moon<sup>18</sup>

ANDREW PETERSON, PE PLOT NAME :

## **GENERAL NOTES**

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS 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.

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

2.75 INCH HMA PAVEMENT SHALL BE TYPE 5 MT 58-34 V, SHALL BE CONSTRUCTED WITH 1.5 INCH UPPER LAYER AND 1.25 INCH LOWER

APPLY TACK COAT AT A RATE OF 0.06 GAL/SY TO COLD IN PLACE RECYCLING BEFORE HMA PAVEMENT.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND COVERED WITH EROSION MAT AS DIRECTED BY THE ENGINEER.

IN ORDER TO AVOID IMPACTS TO THE HABITAT ADJACENT TO THE ROADWAY, THERE SHALL BE NO PARKING, STAGING, OR STORAGE OF EQUIPMENT IN UNDISTURBED, NATIVE AREAS. UTILIZE EXISTING PARKING LOTS, DRIVEWAYS AND SHOULDERS, PROVIDED ADEQUATE PROTECTION IS PROVIDED TO THE HABITAT BEYOND THE TOE OF SLOPE.

THE CONTRACTOR SHALL NOT TRAP WATER ON THE ROADWAY OR BASE AGGREGATE SURFACE.

ALL DEBRIS AND MATERIALS FROM CONSTRUCTION SHALL BE CONTAINED AND NOT DEPOSITED INTO ADJACENT WETLANDS AND WATERWAYS. IF CULVERTS HAVE STANDING OR FLOWING WATER IN THEM, THE WATER SHOULD BE MANAGED SO THAT THE CULVERT MAINTENANCE WORK CAN OCCUR UNDER DRY CONDITIONS.

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) ARE TO BE PLACED AT THE BEGINNING AND END OF PROJECT ONE WEEK PRIOR TO THE START OF CONSTRUCTION TO NOTIFY MOTORISTS OF UPCOMING CONSTRUCTION.

ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1.5 INCH UPPER LAYER AND 1.25 INCH LOWER LAYER.

TRAFFIC CONTROL SIGNS PCMS ARE TO BE PLACED AT THE BEGINNING OF THE PROJECT AND END OF THE PROJECT ONE WEEK PRIOR TO THE START OF CONSTRUCTION. MESSAGE SHALL BE "ROAD WORK TO START 'DATE".

THE CONTRACTOR SHALL WEDGE ASPHALTIC SURFACE TO MATCH SUPERELEVATION RATES AS LISTED IN THE SUPERELEVATION TABLES.

### RUNOFF COEFFICIENT TABLE

						HYDROLOGIC S	SOIL GROU	JP				
		Α			E			C			D	
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	PERCENT
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:				•								•
ASPHAL T						.7095						
CONCRETE						.8095						
BRICK	Ť			·		.7080		Ť				·
DRIVES, WALKS						.7585	·			·		
ROOFS						.7595	•			•		•
GRAVEL ROADS.	SHOULDE	RS				.4060						

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.39 ACRES

PROJECT NO: 1550-04-72, 1550-04-82

UTILITY CONTACTS

#### **COMMUNICATIONS**

CENTURYLINK - COMMUNICATION LINE
MICHAEL VANDEN BOS
24262 75TH AVE
OSCEOLA, WI 54020
PHONE: (715) 294-2478
PHONE (MOBILE): (715) 292-4278
EMAIL: MIKE.VANDENBOS@LUMEN.COM

### **ELECTRICITY**

XCEL ENERGY - ELECTRICITY TRANSMISSION
MITCHELL DIENGER
414 NICOLLET MALL 5TH FLOOR
MINNEAPOLIS, MN 55401
PHONE: (612) 321-3109
PHONE (MOBILE): (608) 386-2233
EMAIL: MITCHELL.A. DIENGER@XCELENERGY.COM

#### **COMMUNICATIONS**

NORTHWEST COMM - COMMUNICATION LINE GREG CARDINAL 116 HARRIMAN AVE N AMERY, WI 54001 PHONE: (715)268-4690 EMAIL:

### GAS / PETROLEUM

WE ENERGIES - GAS/PETROLEUM STEVEN CHAVERS 104 W SOUTH ST RICE LAKE, WI 54868 PHONE: (715) 234-9605 PHONE (MOBILE): (715) 213-4327 EMAIL: STEVEN.CHAVERS@WE-ENERGIES.COM

### ELECTRICITY

BARRON ELECTRIC COOPERATIVE - ELECTRICITY
JEFF NELSON
1434 HWY 25 N
BARRON, WI 54812
PHONE: (715) 537-3171
PHONE (MOBILE): (715) 418-1167
EMAIL: JNELSON@BARRONELECTRIC.COM

### SANITARY AND WATER

VILLAGE OF CLAYTON - SANITARY AND WATER
SHELDON DONATH
PO BOX 274
CLAYTON, WI 54004
PHONE: (715) 948-2310
PHONE (MOBILE): (715) 205-9393
EMAIL: VCLAYTONDPW@AMERYTEL.NET



## STREET LIGHTING

6/23/2021 11:53 AM

VILLAGE OF CLAYTON
SHELDON DONATH
PO BOX 274
CLAYTON, WI 54004
PHONE: (715) 948-2310
PHONE (MOBILE): (715) 205-9393
EMAIL: VCLAYTONDPW@AMERYTEL.NET

# POLK COUNTY CONTACT

POLK COUNTY EMIL NORBY - HIGHWAY COMMISSIONER 900 PHEASANT LANE PO BOX 248 BALSAM LAKE, WI 54810

PHONE: (715) 485-8723 EMIL.NORBY@CO.POLK.WI.US

### DNR CONTACT

DEPARTMENT OF NATURAL RESOURCES NORTHERN REGION HQ 810 W. MAPLE STREET SPOONER, WI 54801 AMY CRONK

AMY CRONK PHONE: (715) 635-4229 AMY.CRONK@WISCONSIN.GOV

1 IN:1 FT

# CONSULTANT CONTACT

CORRE INC. 1802 WARDEN ST EAU CLAIRE, WI 54703

KEVIN MEYER PHONE: (608) 828-1011 KMEYER@CORREINC.COM

COUNTY: POLK

GENERAL NOTES

SHEET

E

FILE NAME: C:\OD\CORRE, INC\PROJECTS - DOCUMENTS\WI - NW REGION\1550-04-02\_POLK CO\_USH 63\500\_CADD\501\_C3D\_2018\15500402\SHEETSPLAN\020101-GN.DWG

HWY: USH 63

PLOT DATE :

PLOT BY: BOBBY JONES

PLOT NAME

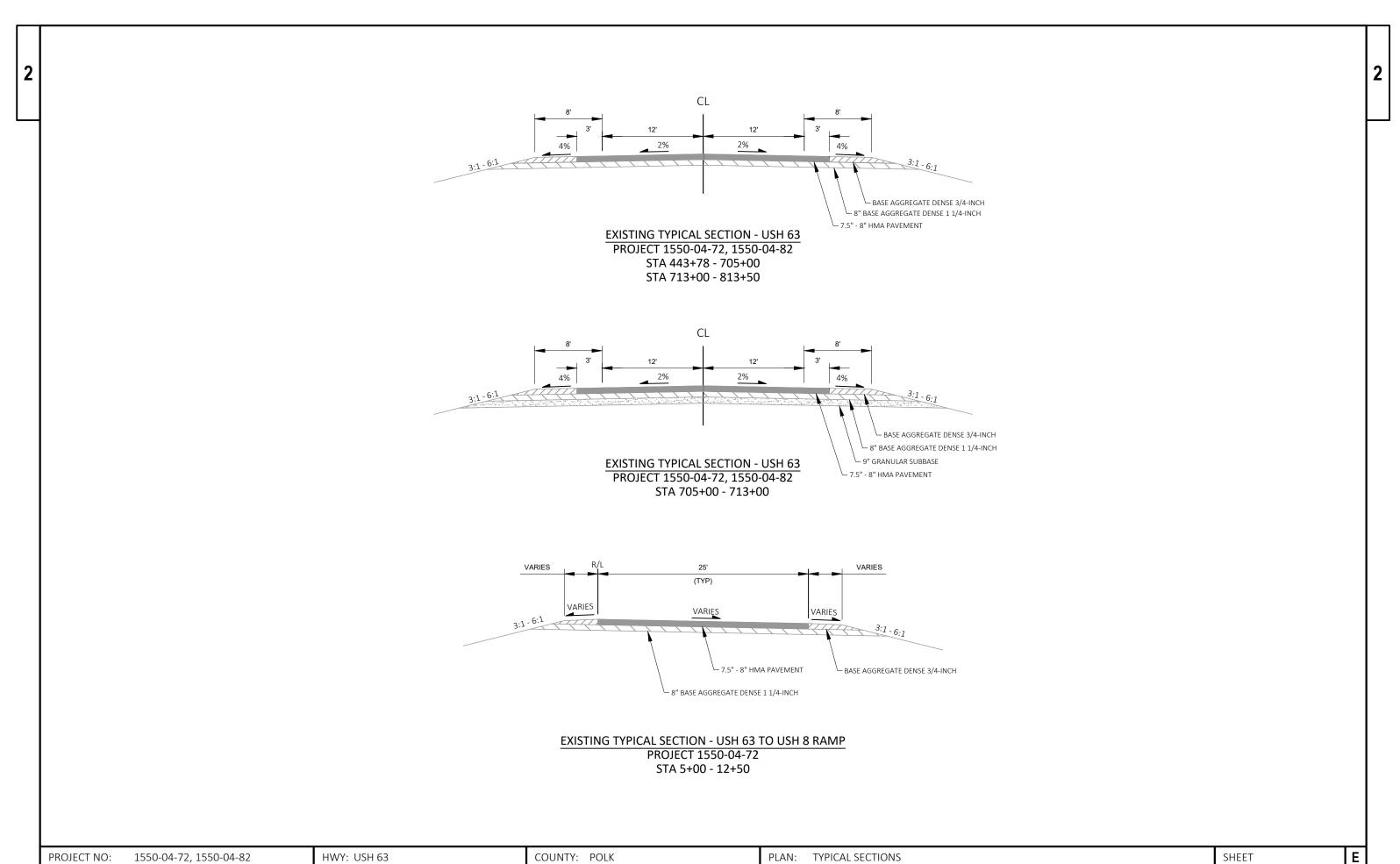
PLOT SCALE :

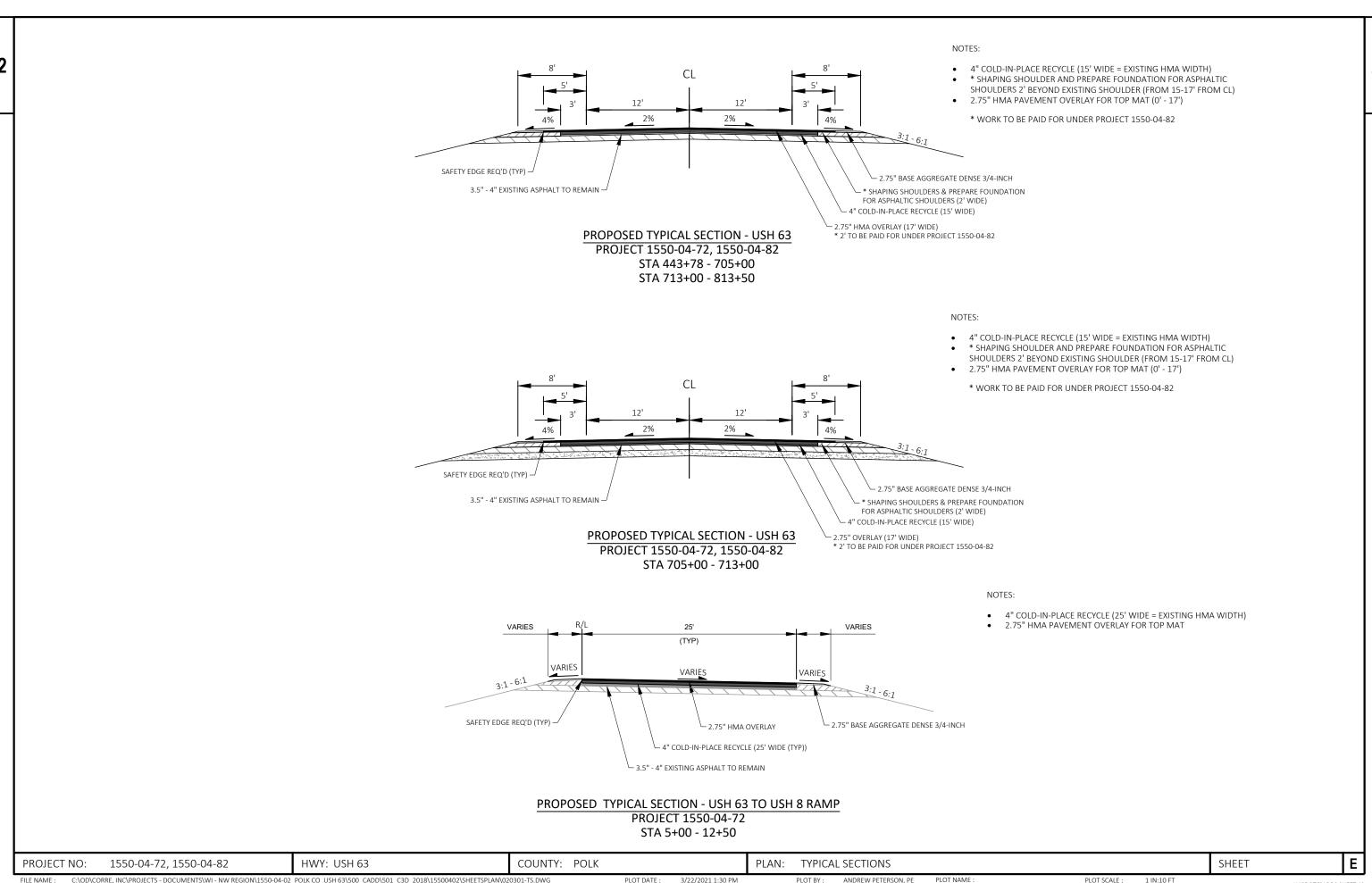
### STANDARD ABBREVIATIONS

ABUT ABUTMENT FOOTING AEW APRON END WALL HT HEIGHT AGG AGGREGATE HES HIGH EARLY STRENGTH HUNDREDWEIGHT ASPH ASPHALTIC CWT AVG AVERAGE IRON PIPE OR PIN ANNUAL AVERAGE DAILY TRAFFIC AADT LT BK LIN FT or LF LINEAR FOOT BASE AGGREGATE DENSE BAD LUMP SUM LS МН MANHOLE BL or B/L BASE LINE BENCH MARK ML or M/L MATCH LINE BM MESSAGE BOARD BR BRIDGE CL or C/L CENTER LINE NORTH Ν NB PC CENTER TO CENTER NORTHBOUND CC COMMERCIAL ENTRANCE POINT OF CURVATURE CE POINT OF INTERSECTION CONCRETE CONC PΙ CO COUNTY POINT OF TANGENCY CTH COUNTY TRUNK HIGHWAY PCC PORTLAND CEMENT CONCRETE CPCS CULVERT PIPE CORRUGATED STEEL PRIVATE ENTRANCE PE CRUSHED AGGREGATE BASE COURSE **RADIUS** CABC CUBIC YARD REFERENCE LINE CY or CUYD RL or R/L CULVERT PIPE RIGHT RT CPRC CULVERT PIPE REINFORCED CONCRETE RIGHT-OF-WAY R/W CURB AND GUTTER ROAD C&G RD DESIGN HOUR VOLUME SHOULDER DHV SHLDR DIAMETER SIDEWALK DIA DRIVEWAY DWY SOUTH EAST SOUTHBOUND SB SF or SQ FT SQUARE FEET EASTBOUND EB SY of SQ YD SQUARE YARD ELECTRIC ELEC STANDARD DETAIL DRAWINGS STATE TRUNK HIGHWAYS ELEVATION EL or ELEV SDD EQUIVALENT SINGLE AXLE LOADS **ESALS** STH EXCAVATION STATION EXC STA EBS EXCAVATION BELOW SUBGRADE SUPERELEVATION SE EXPANSION TELEPHONE EXP TEL FACE TO FACE OR FRONT FACE FF UNDERGROUND UG FIELD ENTRANCE VC VPI VERTICAL CURVE FAB FLASHING ARROW BOARD VERTICAL POINT OF INTERSECTION FL or F/L Flow FLOW LINE WEST W FOOT WESTBOUND

				PΔ	VEMENT COR	E LOG				
CORE NO.	STATION	OFFSET	RECOVERED CORE THICKNESS (IN)	THICKNESS MEASURED DOWNHOLE (IN)	CORE DIA. (IN)	MATERIAL BELOW CORE	PAVEMENT TYPE	DATE	Y	X
C-1	451+80	9.0'LT	10.00	10.25	4.00	BASE	НМА	9/10/2018	237,685.90	573,166.00
C-2	465+00	8.5' RT	7.75	7.75	4.00	BASE	НМА	9/10/2018	238,468.50	574,264.90
C-3	478+20	2.0'LT	7.75	8.00	4.00	BASE	НМА	9/10/2018	239,258.70	575,326.70
C-4	491+40	4.0' RT	8.25	8.25	4.00	BASE	НМА	9/10/2018	240,075.10	576,373.80
C-5	504+60	9.0'LT	9.75	9.75	4.00	BASE	НМА	9/10/2018	241,149.50	577,146.30
C-6	517+80	9.5' RT	9.50	9.50	4.00	BASE	НМА	9/10/2018	242,189.70	577,915.30
C-7	531+00	4.0'LT	9.50	9.75	4.00	BASE	НМА	9/10/2018	242,964.30	578,986.40
C-8	544+20	4.5' RT	9.00	9.75	4.00	BASE	НМА	9/10/2018	243,305.80	580,241.70
C-9	577+40	8.0'LT	11.25	11.50	4.00	BASE	НМА	9/10/2018	243,772.10	581,471.50
C-10	570+60	9.0' RT	10.50	10.50	4.00	BASE	НМА	9/10/2018	244,534.30	582,549.20
C-11	583+80	3.0'LT	12.00	12.00	4.00	BASE	НМА	9/10/2018	245,436.60	583,554.60
C-12	597+00	5.0' RT	10.00	10.25	4.00	BASE	НМА	9/10/2018	246,560.70	584,183.20
C-13	610+20	9.0' LT	11.50	11.75	4.00	BASE	НМА	9/10/2018	247,734.40	584,757.90
C-14	623+40	10.5'RT	9.75	10.00	4.00	BASE	НМА	9/10/2018	249,034.00	584,946.40
C-15	636+50	3.5'LT	10.50	10.50	4.00	BASE	НМА	9/10/2018	250,360.20	584,929.40
C-16	649+80	3.5' RT	10.00	10.00	4.00	BASE	НМА	9/10/2018	251,686.20	584,932.10
C-17	663+00	10.0'LT	10.50	10.50	4.00	BASE	НМА	9/10/2018	253,006.60	584,914.70
C-18	676+20	8.5' RT	12.00	12.00	4.00	BASE	НМА	9/10/2018	254,333.30	584,929.00
C-19	689+40	2.5'LT	10.25	10.25	4.00	BASE	НМА	9/10/2018	255,635.30	584,914.00
C-20	702+60	5.0' RT	9.75	9.75	4.00	BASE	НМА	9/10/2018	256,760.90	584,917.10
C-21	715+80	9.0'LT	8.50	8.75	4.00	BASE	НМА	9/10/2018	258,297.50	584,899.90
C-22	729+00	10.0'RT	9.75	9.75	4.00	BASE	НМА	9/10/2018	259,618.30	584,916.60
C-23	742+20	3.5'LT	9.50	9.50	4.00	BASE	НМА	9/10/2018	260,914.00	584,904.40
C-24	755+40	4.0' RT	10.00	10.00	4.00	BASE	НМА	9/10/2018	262,231.70	584,917.30
C-25	768+60	10.0'LT	10.50	10.50	4.00	BASE	НМА	9/10/2018	263,569.80	584,908.10
C-26	781+80	8.0'RT	10.75	10.75	4.00	BASE	НМА	9/10/2018	264,893.90	584,931.40
C-27	795+00	4.5'LT	9.75	9.75	4.00	BASE	НМА	9/10/2018	266,198.50	584,924.10
C-28	808+20	5.0' RT	6.75	7.00	4.00	BASE	НМА	9/10/2018	267,523.20	584,939.60

COUNTY: POLK Ε PROJECT NO: 1550-04-72, 1550-04-82 HWY: USH 63 **GENERAL NOTES** SHEET 3/22/2021 1:30 PM





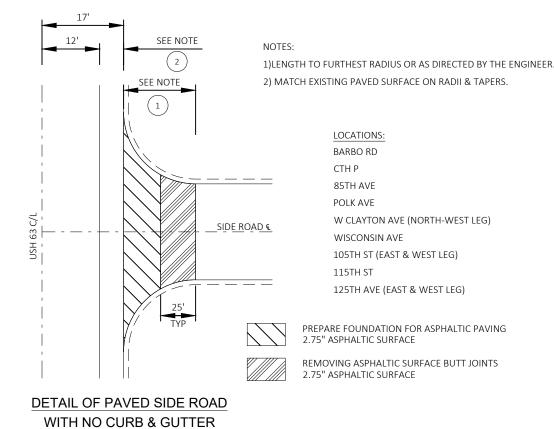


WISDOT/CADDS SHEET 42

VARIES 1)LENGTH TO FURTHEST RADIUS OR AS DIRECTED BY THE ENGINEER. 15' SEE NOTE 2) MATCH EXISTING PAVED SURFACE ON RADII & TAPERS. LOCATIONS: SEE NOTE CTH J W CLAYTON AVE (SOUTH) W CLAYTON AVE (NORTH-EAST LEG) CTH D (SOUTH) CTH D (NORTH) SIDE ROAD C/L CIR ASPHALTIC BASE LAYER REMOVING ASPHALTIC SURFACE MILLING (DEPTH VARIES FROM 0" - 2" AS DIRECTED BY THE ENGINEER) REMOVING ASPHALTIC SURFACE BUTT JOINTS LEXISTING CONCRETE CURB & GUTTER

# DETAIL OF PAVED SIDE ROAD WITH CURB & GUTTER

TO REMAIN (TYP)



### NOTES:

- 1) LENGTH TO FURTHEST RADIUS OR AS DIRECTED BY THE ENGINEER.
- 2) MATCH EXISTING PAVED SURFACE ON RADII & TAPERS.



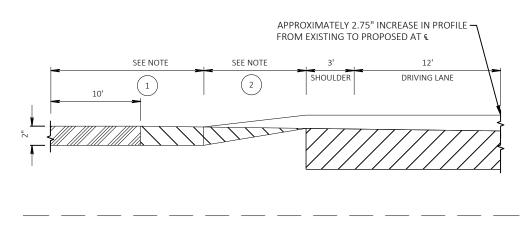
CIR ASPHALTIC BASE LAYER



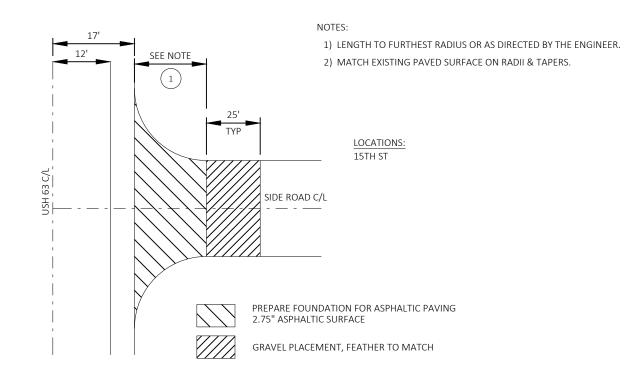
REMOVING ASPHALTIC SURFACE MILLING (DEPTH VARIES FROM 0" - 2" AS DIRECTED BY THE ENGINEER)



REMOVING ASPHALTIC SURFACE BUTT JOINTS

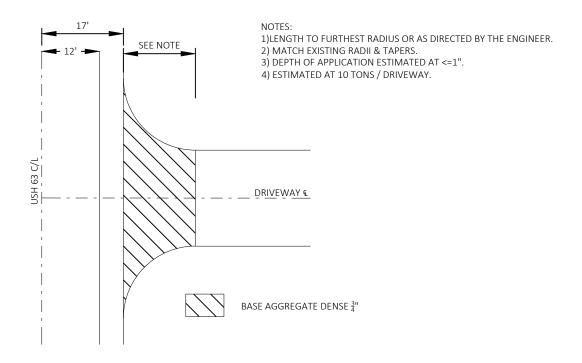


# BUTT JOINT DETAIL A-A PAVED SIDE ROAD WITH CURB & GUTTER

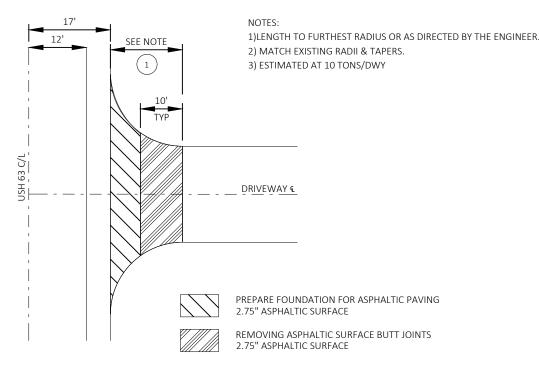


DETAIL OF UNPAVED SIDE ROAD
WITH PAVED / UNPAVED APPROACH





# **DETAIL OF GRAVEL DRIVEWAY**



# **DETAIL OF PAVED DRIVEWAY**

USH 63 & RAMP 100' 2.75" HMA EXISTING ASPHALT EXISTING ASPHALT OR CIR ASPHALTIC BASE LAYER

REQUIRED AT BEGIN AND END OF PAVING LOCATIONS. SEE PLAN.



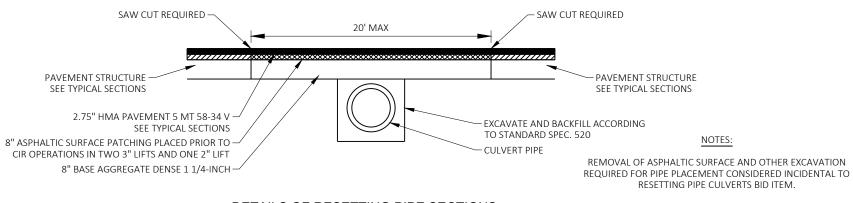
PAID FOR AS REMOVING ASPHALTIC SURFACE BUTT JOINTS

## MAINLINE BUTT JOINT



REMOVE MATERIAL UNDER ITEM "REMOVING ASPHALT SURFACE BUTT JOINTS." MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE SIDE ROAD PAVING.

PAVEMENT DEPTH SHALL MATCH AT MAINLINE PAVEMENT BEFORE SIDEROAD PAVING. EDGE TO BE TAPERED TO 2" MINIMUM AT JOINT



**DETAILS OF RESETTING PIPE SECTIONS** 

PROJECT NO: 1550-04-72, 1550-04-82 HWY: USH 63 COUNTY: POLK CONSTRUCTION DETAILS SHEET

3/22/2021 1:30 PM

1 IN:10 FT

USH 63 C/L 24' (TYP) MATCH EXISTING PAVEMENT WIDTH SAFETY EDGE REQ'D C 2.75" HMA OVERLAY
MATCH EXISTING PAVEMENT SLOPE (2% TYP) \_\_ 2.75" BASE AGGREGATE DENSE 3/4-INCH – 4" COLD-IN-PLACE RECYCLE TO MATCH EXISTING PAVEMENT WIDTH AT BYPASS LANES 3.5" - 4" EXISTING ASPHALT TO REMAIN -BYPASS LANE CIR DETAIL

PROJECT NO: PLAN: CONSTRUCTION DETAILS Ε 1550-04-72, 1550-04-82 HWY: USH 63 COUNTY: POLK SHEET C:\OD\CORRE, INC\PROJECTS - DOCUMENTS\WI - NW REGION\1550-04-02\_POLK CO\_USH 63\500\_CADD\501\_C3D\_2018\15500402\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 03 FILE NAME : PLOT DATE : 3/22/2021 1:30 PM PLOT BY: ANDREW PETERSON, PE PLOT NAME: PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

0000         2000 0115         Remunsing Appealed Surface Bull Justines         SY 2,951.000         2.351.000           0000         21 10100         Pressure Foundation for Apptatilla Depland (prosect) 01.         LS 1,000         1,000           01010         21 10100         Pressure Foundation for Apptatilla Strouters         TO         1,000           01010         21 10100         Pressure Foundation for Apptatilla Strouters         CY 1,000.00         1,000           01011         21 10000         Base Regular for CRI Layer         CY 1,000.00         1,000           0110         21 100000         Base Regular for CRI Layer         CY 1,000.00         1,000           0110         21 100000         Base Apptain for CRI Layer         TON 1,000.00         1,000           0110         30 500000         CRI Regular Market         TON 1,000.00         1,000           0110         30 500000         CRI Regular Market         TON 1,000.00         1,000           0110         30 500000         CRI Regular Market         TON 1,000.00         1,000           0110         30 500000         CRI Regular Market         TON 1,000.00         1,000           0110         30 500000         CRI Regular Market         TON 1,000.00         1,000           0110							-	
0000         2004 115   Removing Appealed Students Builden Builden Students Milling         SY 2,831 000         2.93 1000           0004 201 12   Price Removing Appealed Students Milling         SY 2,836 000         2.93 1000           12 1 1 1010   Price Removing Appealed Power (propert) of 11 1000         1 0000           12 1 1 1010   Price Removal Appealed Students in Croft Base Layer geoples) of 11 1000         1 0000           12 1 1 1010   Students Milling Students M						1550-04-72	1550-04-82	
200.000   200.	Line	Item	Item Description	Unit	Total	Qty	Qty	
1000         10 1000         Pagean Excitation for Appainal Stonautiens         15 1000         1000           11 1000         Prepare Excitation for Appainal Stonautiens         CY         10 2000         1,000           10 10 20 11 1000 1         21 1,000 3         Base Pageal for CRI Layer         CY         1,000 00         1,000           10 10 20 10 20 10 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,931.000	2,931.000		
1500.4-72     1500.4-72	0004	204.0120		SY				
1.000   1.00	0006	211.0100		LS	1.000	1.000		
1000   1000	8000	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	703.000	703.000		
1014 1 100 10 10 100 100 100 100 100 100	0010	211.0700.S		EACH	1.000	1.000		
305 05 1010         830 501100         830 50100         830 50100         830 5000         830 50000         830 5000 <td>0012</td> <td>211.0800.S</td> <td>Base Repair for CIR Layer</td> <td>CY</td> <td>1,000.000</td> <td>1,000.000</td> <td></td> <td></td>	0012	211.0800.S	Base Repair for CIR Layer	CY	1,000.000	1,000.000		
3018 01 200 30 50 50 50 50 50 50 50 50 50 50 50 50 50	0014	213.0100	Finishing Roadway (project) 01. 1550-04-72	EACH	1.000	1.000		
3000         300 50000         Shapping Shouldens         STA         752,000           2022 02 32 70.000         Clas Aghabit Shadlased Layer         SY         12,010.000         12,010.000           0024 450,0705         Affocols         Tack Coal         GAL         18,000.000         569,000           0028 400,0105         SHAR Percent Within Limits (PWL) Treat Strip Volumetrics         EACH         1,000         1,000           00200 400,0105         HAR Percent Within Limits (PWL) Treat Strip Demsity         DCL         15,000         1,000           00200 500         Incentive Density PML HAR Percental         DCL         15,000         1,000           00200 600         Incentive Density PML HAR Percental         DCL         15,000         1,000           00200 700         Incentive Density PML HAR Percental         TON         24,170,000         1,240,000           00200 80         HAR Percent Within Limits (PWL) Treat Strip Density         TON         1,500,000         1,500,000           00200 80         HAR Percent Within Limits (PWL) Treat Strip Density         TON         1,500,000         1,400,000           00200 80         HAR Percent Within Limits (PWL) Treat Strip Density         TON         1,500,000         1,410,000           00200 80         HAR Percent Within Limits (PWL) Treat	0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,211.000	5,211.000		
1002 A 58.0 S C R Aphalatic Blase Layer         SY 18,104.000         128,104.000         1,845.000           102 A 58.0 S C Tack Coat S Tack Coat	0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	178.000	178.000		
2024 4 56 0000 4 50000 5 400 1000 5 Asphalta Stabillaring Agent 1 000 1000 1000 1000 1000 400 1100 5 Naphata Stabillaring Agent 1 000 1000 1000 1000 1000 1000 1000 1	0020	305.0500	Shaping Shoulders	STA	752.000		752.000	
2502 80 450 0075 8. Apshalf Stabilizing Agent   Committed Entrances   Committed Entranc	0022	327.1000.S	CIR Asphaltic Base Layer	SY	126,104.000	126,104.000		
000000000000000000000000000000000000	0024	455.0605	Tack Coat	GAL	18,206.000	16,361.000	1,845.000	
3002 500 40 00 1015 5 HMA Percent Within Limits (PWL) Test Strip Denaity Share 1 20000 1 20000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2		455.0770.S	Asphalt Stabilizing Agent					
0303         480.0110.5         HMA Percent Wilhin Limits [PVL] Test Stip Density         CDL         15.100.00         2.000           0324         480.0070         Incentive Censity HMA Pawement Longitudinal Joints         DOL         25.788.000         29.578.000         29.578.000           0384         480.0071         Incentive Act Park MA Pawement Longitudinal Joints         DOL         24.181.000         43.000         47.94.000           0384         480.0061         HMA Pawement SM TS-34 V         TON         24.157.000         19.23.000         47.94.000           0404         485.010         Asphalits Surface Parking         TON         18.000         184.000           0404         485.010         Asphalits Studies Driveways and Field Entrances         TON         18.000         184.000           0404         485.012         Asphalits Studies Driveways and Field Entrances         TON         18.000         7.7400.000           0504         485.012         Asphalits Studies Driveways and Field Entrances         FC         7.7600.000         7.7400.000           0505         58.000         Concerte Collars for Pipe         EACH         1.000         1.000           0506         59.2100         Apparlits Studies Type Studies From Pipe         EACH         1.000         1.000								
03020 4         400.2005 Monthive Density PML, HMA Parwment ODL DVL 29,160 000 000 0000 0000 00000 0000 0000 0			· · · · · · · · · · · · · · · · · · ·					
03034         480.2007         Incontive Density HMA Pavement Longitudinal Joins 20L         29.578.000         29.578.000         40.000         10.000         40.000         10.000         41.000         12.100.000         47.34.000         13.000         13.000         13.000         47.34.000         13.000	0032							
3030 4 60-2010 November North Section 1			•					
0308   460.0864   MAN Pavement 5 MT S9-34 V         TON   24.187.000   19.423.000   4.734.000           040   465.010   Asphaltic Surface Prevenya and Field Entrances         TON   150.000   190.000           040   465.010   Asphaltic Surface Prevenya and Field Entrances         TON   194.000   190.000           040   465.012   Asphaltic Surface Prevenya and Field Entrances         TON   194.000   190.000           040   465.012   Asphaltic Shoulder Rumble Strips 2-Lane Rural         LF   57.480.000         57.480.000           048   465.047   Asphaltic Shoulder Rumble Strips 2-Lane Rural         LF   57.480.000         27.280.000           050   520.800   Concrete Collars for Fights 2-Lane Rural         LF   57.480.000         1.000           050   522.102   Application Surface Prevention Strips 2-Lane Rural         LF   7.280.000         1.000           050   522.102   Application Strips 2-Lane Rural         LF   8.000   1.000         1.000           050   522.102   Application Strips 2-Lane Rural         LF   7.280.000   1.000         1.000           050   522.102   Application Strips 2-Lane Rural         LF   8.000   1.000         1.000           050   600   Application Strips 2-Lane Rural         LF   8.000   1.000         1.000           050   600   Application Strips 2-Lane Rural         LF   8.000   1.000         1.000           050   600   Application Strips 2-Lane Rural         LF   8.000   1.000         1.000			•					
0000         465.015         Asphalles Surface         TON         1.503.000         1.503.000           042         465.012         Asphalles Surface Portoling         TON         130.000         130.000           044         465.012         Asphalles Surface Portoling         TON         130.000         57.460.000           048         450.425         Asphalles Surface Portoling         LF         27.250.000         57.460.000           048         450.425         Asphalle Surface Portoling         LF         27.250.000         27.250.000           0502         202.070         Concrete Collars for Pipe         EACH         1.000         1.000           0505         522.1024         Agron Endwalls for Culvert Pipe Reinforcad Concrete         EACH         1.000         1.000           0506         618.0100         Mobilizations         EACH         1.000         1.000           0606         624.0100         Valer         Mobilizations         EACH         1.000         375.000           0606         624.0100         Valer         Mobilizations Erosion Control         EACH         1.000         375.000           0606         624.1004         Valer         Mobilizations Erosion Control         EACH         5.000         375							4.734.000	
0044         485.0110         Asphaltic Surface Priveways and Field Entrances         TON         184.000         130.000         130.000         130.000         300.000							.,	
046         465.0425         Asphaltic Shoulder Rumble Stirps 2-Lane Rural         LF         57.480.000         57.480.000           048         465.0425         Asphaltic Chertlerine Rumble Stirps 2-Lane Rural         LF         27.250.000         27.250.000           050         520.8000         Concrete Collars for Pipe         EACH         1.000         1.000           054         521.2012         Apron Enhandlis for Culvert Pipe Reinforced Concrete         EACH         1.000         1.000           058         618.0101         Misintenance And Repair of Haul Roads (project) 01.         EACH         1.000         1.000           058         619.1000         Mobilization         EACH         1.000         0.800         0.200           058         619.1001         Water         MGAL         50.000         475.000         40.200           060         624.0100         Water         MGAL         50.000         475.000         475.000           064         628.1594         Silf Fence         LF         375.000         375.000         475.000           068         628.1954         Mobilizations Erosion Control         EACH         5.000         5.000           070         628.2018         Mobilizations Erosion Control         EACH </td <td></td> <td></td> <td>· •</td> <td></td> <td></td> <td></td> <td></td> <td></td>			· •					
048			•			100.000	57 460 000	
South   Sout			·					
Section   Sect						1 000	21,200.000	
054         522 1024         Agron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch         EACH         1.000         1.000           056         618.0100         Meintenance And Repair of Haul Roads (project) 01. EACH         1.000         0.800         0.200           058         619.100         Mobilization         EACH         1.000         0.800         0.200           060         624.0100         Water         MGAL         50.000         50.000         60.000           062         625.005         Salvaged Topsoil         SY         475.000         475.000           064         628.1504         SII Fence         LF         375.000         375.000           066         628.1505         Mobilizations Erosion Control         EACH         5.000         3.000           070         628.1905         Mobilizations Erosion Control         EACH         5.000         3.000           070         628.1910         Mobilizations Erosion Control         EACH         5.000         3.000           070         629.010         Fertilizer Type B         CWT         1.300         1.300           070         639.101         Social Markers Culvert End         EACH         5.000         5.000           070								
24-Inch   1500			· ·					
155-04-72     155-04-72			24-Inch					
080         624.0100         Water         MGAL         50.000         50.000           080         625.0500         Salvaged Topsoil         SY         475.000         475.000           084         628.1520         Silt Fence Maintenance         LF         375.000         375.000           088         628.1905         Mobilizations Errosing Control         EACH         5.000         5.000           070         628.1905         Mobilizations Errosing Control         EACH         3.000         3.000           072         628.2008         Erosion Mat Urban Class I Type B         SY         475.000         475.000           074         629.0210         Fertilizer Type B         CWT         1.300         1.300           076         633.030         Markers Culvert End         EACH         25.000         25.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           084         642.5001         Field Office Type B         EACH         5.000         5.000           086         643.0300         Traffic Control Drums         DAY         1,600.000         1,600.000           086         643.0300         Traffic Control Signs         DAY <t< td=""><td></td><td></td><td>1550-04-72</td><td></td><td></td><td></td><td>0.200</td><td></td></t<>			1550-04-72				0.200	
362         625,0500         Salvaged Topsoil         SY         475,000         475,000           646         628,1540         Silf Fence Maintenance         LF         375,000         375,000           066         628,1505         Mobilizations Erosion Control         EACH         5,000         5,000           070         628,1905         Mobilizations Emergency Erosion Control         EACH         3,000         3,000           072         628,2008         Erosion Mat Urban Class I Type B         SY         475,000         475,000           074         629,0210         Fertilizer Type B         GWT         1,300         1,300           076         630,0130         Seeding Mixture No. 30         LB         9,000         2,500           078         633,5200         Markers Culvert End         EACH         2,500         2,500           080         638,2102         Moving Signs Type II         EACH         5,000         5,000           084         642,5001         Field Office Type B         EACH         1,000         1,000           086         643,0300         Traffic Control Drums         DAY         2,480,000         2,480,000           090         643,1050         Traffic Control Signs PCMS							0.200	
064         628.1504         Silt Fence Maintenance         LF         375.000         375.000           068         628.1520         Silt Fence Maintenance         LF         375.000         375.000           068         628.1910         Mobilizations Erosion Control         EACH         3.000         3.000           070         628.1910         Mobilizations Emergency Erosion Control         EACH         3.000         3.000           072         628.2008         Erosion Mat Urban Class I Type B         SY         475.000         475.000           074         629.021         Fertilizer Type B         CWT         1.300         1.300           076         630.0130         Seeding Mixture No. 30         LB         9.000         9.000           078         633.5200         Markers Culvert End         EACH         25.000         25.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           081         642.5001         Field Office Type B         EACH         1.000         1.000           084         643.5001         Traffic Control Drums         DAY         2,480.000         2,480.000           090         643.1050         Traffic Control Signs								
066         628.1520         Silt Fence Maintenance         LF         375.000         375.000           068         628.1905         Mobilizations Erosion Control         EACH         5.000         5.000           072         628.2008         Erosion Mat Urban Class I Type B         SY         475.000         475.000           074         629.0210         Fertilizer Type B         CWT         1.300         1.300           076         630.0130         Seeding Mixture No. 30         LB         9.000         9.000           078         633.5200         Markers Culvert End         EACH         5.000         25.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           082         638.4002         Moving Small Sign Supports         EACH         1.000         5.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Drums         DAY         1,800.000         1,800.000           088         643.0900         Traffic Control Signs PCMS         DAY         14,000         14,000           094         646.1020         Marking Line Epoxy 4-Inch <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
068         628.1905         Mobilizations Erosion Control         EACH         5.000         5.000           070         628.1910         Mobilizations Emergency Erosion Control         EACH         3.000         3.000           072         628.2020s         Erosion Mat Urban Class I Type B         SY         475.000         475.000           074         629.0210         Fertilizer Type B         CWT         1.300         1.300           076         630.0130         Seeding Mixture No. 30         LB         9.000         9.000           078         633.200         Markers Culvert End         EACH         5.000         5.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           081         642.5001         Field Office Type B         EACH         1.000         1.000           082         638.400         Moving Small Sign Supports         EACH         1.000         1.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Signs         DAY         1,600.000         1,600.000           086         643.0500         Traffic Control Signs PCMS								
070         628.1910         Mobilizations Emergency Erosion Control         EACH         3.000         3.000           072         628.2008         Erosion Mat Urban Class I Type B         SY         475.000         475.000           074         629.0210         Fertilizer Type B         CWT         1.300         9.000           076         630.0130         Seeding Mixture No. 30         LB         9.000         9.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           081         638.2400         Moving Small Sign Supports         EACH         5.000         5.000           082         638.4000         Moving Small Sign Supports         EACH         1.000         1.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Signs         DAY         1,600.000         2,480.000           088         643.0900         Traffic Control Signs PCMS         DAY         14.000         14.000           090         643.1050         Traffic Control Signs PCMS         DAY         14.000         1.000           094         646.1020         Marking Line Epoxy 4-In								
072         628.2008         Erosion Mat Urban Class I Type B         SY         475.000         475.000           074         629.0210         Ferfilizer Type B         CWT         1.300         1.300           076         630.0130         Seeding Mixture No. 30         LB         9.000         9.000           078         633.5200         Markers Culvert End         EACH         25.000         25.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           082         638.4000         Moving Small Sign Supports         EACH         5.000         5.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Drums         DAY         1,600.000         1,600.000           088         643.090         Traffic Control Signs         DAY         1,4000         14.000           092         643.5000         Traffic Control Signs         DAY         1,400         1,000           094         646.1020         Marking Line Epoxy 4-Inch         LF         35,760.000         71,973.000           096         646.1020         Marking Stop Line Epoxy 8-Inch <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
074         629.0210         Fertilizer Type B         CWT         1.300         1.300           076         630.0130         Seeding Mixture No. 30         LB         9.000         9.000           078         633.5200         Markers Culvert End         EACH         25.000         25.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           082         638.4000         Moving Small Sign Supports         EACH         5.000         5.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Drums         DAY         1,600.000         1,600.000           088         643.0900         Traffic Control Signs         DAY         2,480.000         2,480.000           090         643.1050         Traffic Control Signs PCMS         DAY         14.000         14.000           092         643.5000         Traffic Control Signs PCMS         DAY         14.000         1.000           094         646.1020         Marking Line Epoxy 4-Inch         LF         35,760.000         71,973.000           098         646.3020         Marking Line Epoxy 8-Inch         <								
076         630.0130         Seeding Mixture No. 30         LB         9.000         9.000           078         633.5200         Markers Culvert End         EACH         25.000         25.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           082         638.4000         Moving Small Sign Supports         EACH         5.000         5.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Drums         DAY         1,600.000         1,600.000           088         643.0900         Traffic Control Signs         DAY         1,4000         14.000           090         643.1050         Traffic Control Signs PCMS         DAY         14.000         14.000           092         643.5000         Traffic Control         EACH         1.000         1.000           094         646.1020         Marking Line Epoxy 4-Inch         LF         35,760.000         35,760.000           096         646.1040         Marking Line Epoxy 8-Inch         LF         7,1973.000         71,973.000           098         646.3020         Marking Line Epoxy 8-Inch         <								
078         633.5200         Markers Culvert End         EACH         25.000         25.000           080         638.2102         Moving Signs Type II         EACH         5.000         5.000           082         638.4000         Moving Small Sign Supports         EACH         5.000         5.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Drums         DAY         1,600.000         2,480.000           088         643.0900         Traffic Control Signs         DAY         14.000         14.000           090         643.1050         Traffic Control Signs PCMS         DAY         14.000         1.000           092         643.5000         Traffic Control Signs PCMS         DAY         14.000         1.000           094         646.1020         Marking Line Epoxy 4-Inch         LF         35,760.000         35,760.000           096         646.1020         Marking Line Epoxy 8-Inch         LF         71,973.000         71,973.000           098         646.3020         Marking Stop Line Epoxy 18-Inch         LF         20.000         20.000           100         646.6120         Marking Stop Line E			• •					
080         638.2102         Moving Signs Type II         EACH         5.000         5.000           082         638.4000         Moving Small Sign Supports         EACH         5.000         5.000           084         642.5001         Field Office Type B         EACH         1.000         1.000           086         643.0300         Traffic Control Drums         DAY         1,600.000         2,480.000           088         643.0900         Traffic Control Signs         DAY         2,480.000         2,480.000           090         643.1050         Traffic Control Signs PCMS         DAY         14.000         1.000           092         643.5000         Traffic Control         EACH         1.000         1.000           094         646.1020         Marking Line Epoxy 4-Inch         LF         35,760.000         35,760.000           096         646.1040         Marking Line Epoxy 8-Inch         LF         71,973.000         71,973.000           098         646.3020         Marking Line Epoxy 8-Inch         LF         939.000         20.000           100         646.6120         Marking Stop Line Epoxy 18-Inch         LF         20.000         20.000           102         648.0100         Locating No-Passing			-					
082       638.4000       Moving Small Sign Supports       EACH       5.000       5.000         084       642.5001       Field Office Type B       EACH       1.000       1.000         086       643.0300       Traffic Control Drums       DAY       1,600.000       2,480.000         088       643.0900       Traffic Control Signs       DAY       2,480.000       2,480.000         090       643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         092       643.5000       Traffic Control       EACH       1.000       1.000         094       646.1020       Marking Line Epoxy 4-Inch       LF       35,760.000       35,760.000         096       646.1040       Marking Line Epoxy 8-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010								
084       642.5001       Field Office Type B       EACH       1.000       1.000         086       643.0300       Traffic Control Drums       DAY       1,600.000       2,480.000         088       643.0900       Traffic Control Signs       DAY       2,480.000       2,480.000         090       643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         092       643.5000       Traffic Control       EACH       1.000       1.000         094       646.1020       Marking Line Epoxy 4-Inch       LF       35,760.000       35,760.000         096       646.1040       Marking Line Grooved Wet Ref Epoxy 4-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010								
086       643.0300       Traffic Control Drums       DAY       1,600.000       1,600.000         088       643.0900       Traffic Control Signs       DAY       2,480.000       2,480.000         090       643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         092       643.5000       Traffic Control       EACH       1.000       1.000         094       646.1020       Marking Line Epoxy 4-Inch       LF       35,760.000       71,973.000         096       646.1040       Marking Line Grooved Wet Ref Epoxy 4-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010								
088       643.0900       Traffic Control Signs       DAY       2,480.000       2,480.000         090       643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         092       643.5000       Traffic Control       EACH       1.000       1.000         094       646.1020       Marking Line Epoxy 4-Inch       LF       35,760.000       71,973.000         096       646.1040       Marking Line Grooved Wet Ref Epoxy 4-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010								
090       643.1050       Traffic Control Signs PCMS       DAY       14.000       14.000         092       643.5000       Traffic Control       EACH       1.000       1.000         094       646.1020       Marking Line Epoxy 4-Inch       LF       35,760.000       35,760.000         096       646.1040       Marking Line Grooved Wet Ref Epoxy 4-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010								
092       643.5000       Traffic Control       EACH       1.000       1.000         094       646.1020       Marking Line Epoxy 4-Inch       LF       35,760.000       35,760.000         096       646.1040       Marking Line Grooved Wet Ref Epoxy 4-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010			-					
094       646.1020       Marking Line Epoxy 4-Inch       LF       35,760.000       35,760.000         096       646.1040       Marking Line Grooved Wet Ref Epoxy 4-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010			-					
096       646.1040       Marking Line Grooved Wet Ref Epoxy 4-Inch       LF       71,973.000       71,973.000         098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010								
098       646.3020       Marking Line Epoxy 8-Inch       LF       939.000       939.000         100       646.6120       Marking Stop Line Epoxy 18-Inch       LF       20.000       20.000         102       648.0100       Locating No-Passing Zones       MI       7.010       7.010								
100 646.6120 Marking Stop Line Epoxy 18-Inch LF 20.000 20.000 102 648.0100 Locating No-Passing Zones MI 7.010 7.010				LF				
102 648.0100 Locating No-Passing Zones MI 7.010 7.010								
	100	646.6120		LF				
104 649.0105 Temporary Marking Line Paint 4-Inch LF 60,400.000 60,400.000	102	648.0100			7.010	7.010		
	0104	649.0105	Temporary Marking Line Paint 4-Inch	LF	60,400.000	60,400.000		

**Estimate Of Quantities** 

Page 2

					1550-04-72	1550-04-82
Line	Item	Item Description	Unit	Total	Qty	Qty
0106	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	35,700.000	35,700.000	
0108	650.8000	Construction Staking Resurfacing Reference	LF	37,722.000	37,722.000	
0110	650.9910	Construction Staking Supplemental Control (project) 01. 1550-04-72	LS	1.000	1.000	
0112	740.0440	Incentive IRI Ride	DOL	28,010.000	28,010.000	
0114	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	600.000	600.000	
0116	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000	
0118	SPV.0060	Special 01. Resetting Pipe Ends	EACH	23.000	23.000	

			204.0115 REMOVING ASPHALTIC SURFACE BUTT		CATEGOR	·ν ςιΔ.	TION 10 3	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH ION	305.0120  BASE AGGREGATE DENSE 1 1/4-INCH 10N	REMARKS
CATEGORY	STATION TO STA	TION LOCATION	JOINTS SY	MILLING SY							1011	NEW AND
<u></u>	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL COLUMNIA	3.		0010		i+78 - 8 i+79 - 4		USH 63 CTH J	4,250 9	-	
0010		+78 USH 63	334		0010		1+34 - 4		BARBORD	6	-	
0010		6+05 CTH I	26	320	0010	490	)+31 - 4	4918+70	C1H P / 201H ST	10	-	
0010	463+34 - 464		78	-	0010	513	1+26 !	514+49	85TH AVE	7		
0010 0010	490+31 - 493 490+34 490	.187 CTH P/20TH ST DRIVEWAY, LT	73 25	-	0010			538+63	1.5TH ST	8	-	
0010	492+75 - 493	· · · · · · · · · · · · · · · · · · ·	200		0010			551+94	PASSING LANE	40	-	
0010	498+77 - 499	,	35	-	0010 0010			552+55 562+49	W CLAYTON AVE POLK AVE	24 10	-	
0010	500+06 - 500		16	-	0010	570		574+41	W CLAYTON AVE	16	-	EAST
0010	501+01 - 50		79	-	0010			5 <b>75</b> +14	W CLAYTON AVE	24	-	WEST
0010	505+31 - 505		34	<u>-</u>	0010			585+20	PASSING LANE	45	-	
0010 0010	508+09 - 508 510+34 - 510		48 27	-	0010			583+43	C_H D	17	-	
0010	513+26 - 514		27 94	-	0010			59 <b>5+6</b> 6	WISCONSIN AVE	7	-	
0010		1+82 W CLAYTON AVE	89	700	0010			606+97	PASSING LANE	44		
0010	561+14 - 561		110		0010 0010			605+91 683+86	CTH D 105TH ST	18 8	-	WEST
0010	570+36 - 574	·	130	680	0010			683+63	105TH ST	8	-	[AST
0010	571+91 - 579		68	-	0010		H30 - 1		115TH ST	11	-	
0010	579+18 - 583		120	440	0010			/88+1/	1251H AVE	13	-	EAST
0010 0010	583+60 583 594+68 - 593	H+97 DRIVEWAY, LT H+74 WISCONSIN AVE	30 99	-	0010			788+40	125TH AVE	9	-	WEST
0010	601+88 - 606		140	400	0010			9+30	USH 63 TO USH 8 RAMP	27	-	
0010		105 TH ST, WEST	<b>6</b> 6	-	0010			12+50	USH 63 TO USH 8 RAMP	20 580	-	DDIVENA/AVS
0010	682+90 - 683	105TH ST, EAST	72	-	0010 0010		1+/8 - 8	813+50 813+50	USH 63 USH 63	580 -	- 178	DRIVEWAYS RESETTING CULVERTS
0010	735+25 - 736		63	-	0010	,3		013.30	03.103		170	neser into doctrents
0010	786+09 - 788		100	<u>-</u>					TOTAL 0010	5,211	178	
0010 0010	787+11 - 788 812+50 813	3 125TH AVE, WEST USH 63	85 420	-								
0010	11+50 - 12			_	NOTE: AL	L ITEMS SHA	ALL BE PRO	JECT 1550	<del>-0</del> 4-72.			
		TOTAL 0010	2,931	2,540							211.0400	
NOTE ALL IT	ENAC CLIATE DE ODOJEC	T1550.04.70									PREPARE FOUNDATION	
NOTE: ALL IT	EMS SHALL BE PROJEC	11550-04-72.									FOR ASPHALTIC	
											SHOULDERS	
								CATEGO	ORY STATION TO STA	TION LOCATION	N STA	
								0011	0 442.70 444	1.00	1	
								0010 0010			1 103	
			30	05.0500				0010			20	
			S	SHAPING				0010			3	
				IOULDERS				0010			17	
CATE	GORY STATION	TO STATION LOCATI	ON	STA				0010			207	
2	110 442.70	013.E0	20	740				0010			50 53	
		- 813+50 USH 6 - 12+50 USH 63 TO US		740 12				0010 0010			52 21	
O(	)10 JT00	12130 031103 10 03	II O NAIVII	14				0010			6	
		TOTAL 0	010	752				0010			17	
								0010		7+00 RT	180	
NOTI	E: ALL ITEMS ARE PROJ	ECT 1550-04-82.						0010	0 788+00 - 813	3+50 RT	26	
										TOTAL 001	.0 703	
								NOTE: V	ALL ITEMS SHALL BE PROJEC	T 1550-04-72		

BASE FC PAV	.0800.S EREPAIR OR CIR 'EMENT CY	327.1000. CIR ASPHALTIC BASE LAYER SY		ASPHALT STABILIZING I	HMA PAVEMENT 5 A	SPHALTIC SURFACE TON	REMARKS	
	CT	31	GAL	TON	TON	TON	REIVIANNS	
1	,000	98,592	11,840	442	15,184	-		
	-	24,648	2,960	111	3,796	-	SHOULDERS, PROJECT 1550-04-72	F
	-	-	1,845	-	4,734	-	SHOULDERS, PROJECT 1550-04-82	
	-	1,398	168	7	216	-		
	-	-	41	-	-	53		
	-	-	19	-	-	24		,
	-	-	28	-	-	35		
	-	-	25	-	-	32		
	-	-	14 94	-	-	18 121		
	_	- 451	55 55	3	- 70	-		
	_	- 431	84	-	-	108		
	_	_	65	-	_	83		
	-	-	97	-	-	125		
	-	-	67	-	-	85		
	-	543	66	3	84	-		
	-	-	24	-	-	31		
	-	-	64	-	-	82		
	-	472	57	3	73	=		
	-	-	22	-	-	28		
	-	-	25	-	-	32		
	-	-	33	-	-	42		
	-	-	29	-	-	37		
	-	-	52	-	-	67		
	-	-	432	-	-	500	SUPERELEVATION CORRECTION	
1	,000	126,104	18,206		24,157	1,503		
ĒD.								
ED.	520.8	:000 5	20.8700	522.1024	SPV.0060.01			
ED.	CONC	RETE		APRON ENDWALLS FOR CULVERT PIPE	SPECIAL (01.			
ED.	CONC COLLAR	RETE S FOR C	CLEANING	APRON ENDWALLS FOR CULVERT PIPE REINFORCED	SPECIAL (01. RESETTING			
	CONC COLLAR PIF	RETE S FOR C	LEANING LVERT PIPES	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS)		DEPARTS.	
ED.	CONC COLLAR	RETE S FOR C	CLEANING	APRON ENDWALLS FOR CULVERT PIPE REINFORCED	SPECIAL (01. RESETTING		REMARKS	
	CONC COLLAR PIF	RETE S FOR C	LEANING LVERT PIPES	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS) EACH		REMARKS 2 SECTIONS LT	
TON	CONC COLLAR PIF	RETE S FOR C	ELEANING LVERT PIPES EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS) EACH	3 SECTIO	2 SECTIONS LT ONS LT, 2 SECTIONS RT	
TION	CONC COLLAR PIF	RETE S FOR C	ELEANING EVERT PIPES EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS) EACH	3 SECTIO	2 SECTIONS LT	
- - -	CONC COLLAR PIF	RETE S FOR C	ELEANING VERT PIPES EACH 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS) EACH 2 5	3 SECTIO	2 SECTIONS LT ONS LT, 2 SECTIONS RT	
- - - -	CONC COLLAR PIF	RETE S FOR C	ELEANING EVERT PIPES EACH  1 1 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS) EACH  2 5 6 -	3 SECTIC	2 SECTIONS LT DNS LT, 2 SECTIONS RT DNS LT, 3 SECTIONS RT	
- - -	CONC COLLAR PIF	RETE S FOR C	ELEANING EVERT PIPES EACH  1 1 1 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS) EACH  2 5 6 3	3 SECTIC 3 SECTIC	2 SECTIONS LT  DNS LT, 2 SECTIONS RT  DNS LT, 3 SECTIONS RT	
- - - -	CONC COLLAR PIF EAC	RETE S FOR C	ELEANING EVERT PIPES EACH  1 1 1 1 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	SPECIAL (01. RESETTING PIPE ENDS) EACH  2 5 6 3 5	3 SECTIC 3 SECTIC :	2 SECTIONS LT  DNS LT, 2 SECTIONS RT  DNS LT, 3 SECTIONS RT  3 SECTIONS RT  DNS LT, 2 SECTIONS RT	
- - - -	CONC COLLAR PIF	RETE S FOR C	ELEANING EVERT PIPES EACH  1 1 1 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	SPECIAL (01. RESETTING PIPE ENDS) EACH  2 5 6 3	3 SECTIC 3 SECTIC :	2 SECTIONS LT  DNS LT, 2 SECTIONS RT  DNS LT, 3 SECTIONS RT	
	CONC COLLAR PIF EAC	RETE S FOR C	ELEANING EVERT PIPES EACH  1 1 1 1 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	SPECIAL (01. RESETTING PIPE ENDS) EACH  2 5 6 3 5	3 SECTIC 3 SECTIC :	2 SECTIONS LT  DNS LT, 2 SECTIONS RT  DNS LT, 3 SECTIONS RT  3 SECTIONS RT  DNS LT, 2 SECTIONS RT	
- - - -	CONC COLLAR PIF EAC	RETE S FOR C	ELEANING EVERT PIPES EACH  1 1 1 1 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	SPECIAL (01. RESETTING PIPE ENDS) EACH  2 5 6 3 5	3 SECTIC 3 SECTIC :	2 SECTIONS LT  DNS LT, 2 SECTIONS RT  DNS LT, 3 SECTIONS RT  3 SECTIONS RT  DNS LT, 2 SECTIONS RT	
	CONC COLLAR PIF EAC	RETE IS FOR C IE CUL	ELEANING EVERT PIPES EACH  1 1 1 1 1 1 1	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	SPECIAL (01. RESETTING PIPE ENDS) EACH  2 5 6 3 5	3 SECTIC 3 SECTIC :	2 SECTIONS LT  DNS LT, 2 SECTIONS RT  DNS LT, 3 SECTIONS RT  3 SECTIONS RT  DNS LT, 2 SECTIONS RT	

CATEGORY	STATION	LOCATION	465.0110 ASPHALTIC SURFACE PATCHING TON	REMARKS
0010	444+08	ML	16	RESETTING CULVERTS
0010	483+46	ML	40	RESETTING CULVERTS
0010	529+34	ML	48	RESETTING CULVERTS
0010	584+05	ML	24	RESETTING CULVERTS RESETTING CULVERTS
0010	596+47	ML	40	
0010	605+66	ML TOTAL 0010	184	RESETTING CULVERTS

NOTE: ALL ITEMS SHALL BE PROJECT 1550-04-72.

465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD **ENTRANCES** CATEGORY STATION TO STATION LOCATION TON REMARKS 0010 443+78 - 813+50 USH 63 130 DRIVEWAYS 130 TOTAL 0010

NOTE: ALL ITEMS SHALL BE PROJECT 1550-04-72.

					465.0425	465.0475	
					<b>ASPHALTIC</b>	ASPHALT	
					SHOULDER	CENTERLINE	
					RUMBLE STRIPS	RUMBLE STRIPS	
					2-LANE RURAL	2-LANE RURAL	
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	REMARKS
0010	446+72	-	483+00	C/L	-	3,230	
0010	504+50	-	559+87	C/L	-	4,340	
0010	597+22	-	810+00	C/L	-	19,680	
0010	443+78	-	489+80	LT/RT	8,100	-	TYPE 1
0010	504+50	-	561+00	LT/RT	9,840	-	TYPE 1
0010	596+25	-	810+00	LT/RT	39,520	-	TYPE 1
				TOTAL 0010	57,460	27,250	

NOTE: ALL ITEMS SHALL BE PROJECT 1550-04-82.

					APRON ENDWALLS		
			CONCRETE		FOR CULVERT PIPE	SPECIAL (01.	
			COLLARS FOR	CLEANING	REINFORCED	RESETTING	
			PIPE	<b>CULVERT PIPES</b>	CONCRETE 24-INCH	PIPE ENDS)	
CATEGORY	STATION	LOCATION	EACH	EACH	EACH	EACH	REMARKS
0010	444+08	ML	-	1	-	2	2 SECTIONS LT
0010	483+46	ML	-	1	-	5	3 SECTIONS LT, 2 SECTIONS RT
0010	529+34	ML	-	-	-	6	3 SECTIONS LT, 3 SECTIONS RT
0010	555+85	ML	-	1	-	-	
0010	565+24	ML	-	1	-	-	
0010	584+05	ML	=	1	=	3	3 SECTIONS RT
0010	596+47	ML	-	1	-	5	3 SECTIONS LT, 2 SECTIONS RT
0010	605+66	ML	1	1	1	2	2 SECTIONS LT
0010	635+53	ML	-	-	-	-	
0010	675+85	ML	-	1	-	-	
		TOTAL 0010	1	8	1	23	

NOTE: ALLL ITEMS SHALL BE PROJECT 1550-04-72.

Ε PROJECT NO: 1550-04-72, 1550-04-82 HWY: USH 63 COUNTY: POLK MISCELLANEOUS QUANTITIES SHEET FILE NAME : C:\OD\CORRE, INC\PROJECTS - DOCUMENTS\WI - NW REGION\1550-04-02\_POLK CO\_USH 63\500\_CADD\501\_C3D\_2018\15500402\\$HEETSPLAN\030201-MQ.DWG PLOT DATE: 6/1/2021 3:30 PM PLOT BY: BOBBY JONES PLOT NAME : PLOT SCALE : 1" = 1'

CATEGORY

0010

0010

0010

0010

0010

0010

0010 0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

0010

STATION TO STATION

443+78 - 813+50

443+78 - 813+50

443+78 - 813+50

5+00 - 12+50

LOCATION

USH 63 USH 63

USH 63

USH 63 TO USH 8 RAMP

CTH J

BARBO RD CTH P / 20TH ST

85TH AVE

15TH ST

W CLAYTON AVE

W CLAYTON AVE BYPASS LANE

POLK AVE

W CLAYTON AVE, WEST

W CLAYTON AVE, EAST

CTH D

CTH D BYPASS LANE

WISCONSIN AVE

CTH D

CTH D BYPASS LANE

105TH ST, WEST

105TH ST, EAST

115TH ST

125TH AVE, WEST

125TH AVE, EAST

PROJECT

TOTAL 0010

NOTE: ALL ITEMS SHALL BE PROJECT 1550-04-72 UNLESS OTHERWISE NOTED.

	CATEGORY	LOCATI	624.0100 WATER ON MGAL		KS			CATEGORY	LOCATION	625.0500 SALVAGED TOPSOIL SY	EROSION MAT	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	REMARKS
	0010	PROJE	CT 50	BASE COMPA	ACTION			0010	PROJECT	380	380	0.3	7	
		TOTAL C	0010 50					0010	PROJECT	95	95	1.0	2	UNDISTRIBUTED
	NOTE: ALL ITE	EMS SHALL BE P	ROJECT 1550-04-72	2.					TOTAL 0010	475	475	1.3	9	-
								NOTE: ALL ITEMS	SHALL BE PROJE	CT 1550-04-72.				
CATEGORY	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905  MOBILIZATIONS  EROSION  CONTROL  EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	REMARKS	CATEGORY	STATION TO	STATION	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH		REMARKS
0010	PROJECT	275	275	5	3	HEIMANNS								
0010	PROJECT	100	100	-	-	UNDISTRIBUTED	0010	443+78 -	813+50	USH 63	5 	5	ONDISTRIBUTED	FOR NO PASSING ZONE SIG
										ΓΟΤΑL 0010	5	5		
NOTE: ALL ITI	TOTAL 0010 EMS SHALL BE PROJECT :	375 1550-04-72.	375	5	3		NOTE: ALL ITE	EMS SHALL BE PRC	JECT 1550-04-7	2.				
NOTE: ALL ITI			375	633 MAI	.5200 RKERS		NOTE: ALL ITE	EMS SHALL BE PRC	JECT 1550-04-7	2.				
NOTE: ALL ITI	EMS SHALL BE PROJECT :	1550-04-72. DRY STATION	N LOCATIO	633 MAF CULVI DN E/	.5200		NOTE: ALL ITE	EMS SHALL BE PRC	JECT 1550-04-7	643.03				
NOTE: ALL ITI	EMS SHALL BE PROJECT :  CATEGO 0010 0010	DRY STATION 444+08 458+65	N LOCATION B ML 6 ML	633 MAF CULVI DN E/	.5200 RKERS ERT END ACH		NOTE: ALL ITE	EMS SHALL BE PRC	JECT 1550-04-7		TIC	TRAFFIC		
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010	DRY STATION  444+08 458+65 483+46 515+16	N LOCATION  B ML  G ML  G ML	633 MAI CULVI DN E/	.5200 RKERS ERT END ACH		NOTE: ALL ITE	EMS SHALL BE PRC		643.03 TRAFF CONTR DRUN	FIC OL TRAFFIC VIS CONTROL SI	TRAFFIC CONTROL SI	GNS TRAFFIC	
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010 0010 0010	0RY STATION 444+08 458+65 483+46 515+16 529+34 555+85	N LOCATION  ML  ML  ML  ML  ML  ML  ML  ML	633 MAI CULVI DN E/	.5200 RKERS ERT END ACH		NOTE: ALL ITE	CATE	GORY LOCA	643.03 TRAFF CONTR DRUM	OL TRAFFIC MS CONTROL SI DAY	TRAFFIC CONTROL SI GNS PCMS DAY	IGNS TRAFFIC CONTROL	
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010 0010 0010 0010 0	DRY STATION  444+08 458+65 515+16 529+34 555+85 584+05 605+66	N LOCATION  ML  ML  ML  ML  ML  ML  ML  ML  ML  M	633 MAI CULVI DN E/	2 2 2 2 2		NOTE: ALL ITE		GORY LOC/ 10 PRC	643.03 TRAFF CONTR DRUM TION DAY	OL TRAFFIC  MS CONTROL SI  DAY  D 2,480	TRAFFIC CONTROL SI GNS PCMS DAY	GNS TRAFFIC CONTROL EACH	
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010 0010 0010 0010	DRY STATION  444+08 458+65 515+16 529+34 555+85 605+66 635+53	M LOCATION  ML  ML  ML  ML  ML  ML  ML  ML  ML  M	633 MAI CULVI DN E/	2 2 2 2 2		NOTE: ALL ITE	<u>CATE</u> 0	GORY LOCA 10 PRC TOTA	643.03 TRAFF CONTR DRUM TION DAY JECT 1,600	OL TRAFFIC AS CONTROL SI DAY  0 2,480	TRAFFIC CONTROL SI GNS PCMS DAY	GNS TRAFFIC CONTROL EACH	
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010 0010 0010 0010 0	DRY STATION  444+08 458+65 483+46 515+16 529+34 555+85 663+94 721+20	M LOCATION  ML  ML  ML  ML  ML  ML  ML  ML  ML  M	633 MAI CULVI DN E/	2 2 2 2 2 2 1 2 1		NOTE: ALL ITE	<u>CATE</u> 0	GORY LOCA 10 PRC TOTA	643.03 TRAFF CONTR DRUM TION DAY	OL TRAFFIC AS CONTROL SI DAY  0 2,480	TRAFFIC CONTROL SI GNS PCMS DAY	GNS TRAFFIC CONTROL EACH	
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010 0010 0010 0010 0	0RY STATION  444+08 458+65 483+46 515+16 529+34 555+85 663+94 721+20 752+65 805+85	M LOCATION  ML  ML  ML  ML  ML  ML  ML  ML  ML  M	633 MAI CULVI DN E/	2 2 2 2 2 2 1 1 1		NOTE: ALL ITE	<u>CATE</u> 0	GORY LOCA 10 PRC TOTA	643.03 TRAFF CONTR DRUM TION DAY JECT 1,600	OL TRAFFIC AS CONTROL SI DAY  0 2,480	TRAFFIC CONTROL SI GNS PCMS DAY	GNS TRAFFIC CONTROL EACH	
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010 0010 0010 0010 0	0RY STATION  444+08 458+65 483+46 515+16 529+34 555+85 663+94 721+20 752+65 805+85	M LOCATION  ML  ML  ML  ML  ML  ML  ML  ML  ML  M	633 MAI CULVI DN E/	2 2 2 2 2 2 1 1 1		NOTE: ALL ITE	<u>CATE</u> 0	GORY LOCA 10 PRC TOTA	643.03 TRAFF CONTR DRUM TION DAY JECT 1,600	OL TRAFFIC AS CONTROL SI DAY  0 2,480	TRAFFIC CONTROL SI GNS PCMS DAY	GNS TRAFFIC CONTROL EACH	
NOTE: ALL ITI	CATEGO  0010 0010 0010 0010 0010 0010 0010 0	0RY STATION  444+08 458+65 483+46 515+16 529+34 555+85 663+94 721+20 752+65 805+85	M LOCATION  ML  ML  ML  ML  ML  ML  ML  ML  ML  M	633 MAI CULVI DN E/	2 2 2 2 2 1 2 1 1 2 2 2		NOTE: ALL ITE	<u>CATE</u> 0	GORY LOCA 10 PRC TOTA	643.03 TRAFF CONTR DRUM TION DAY JECT 1,600	OL TRAFFIC AS CONTROL SI DAY  0 2,480	TRAFFIC CONTROL SI GNS PCMS DAY	GNS TRAFFIC CONTROL EACH	

				EPOXY 4-INCH	646.1040 MARKING LINE GROOVED WET REF EPOXY 4- INCH	MARKING LINE EPOXY 8-INCH	646.6120 MARKING STOP LINE EPOXY 18- INCH	PAINT 4-INCH	EPOXY 4-INCH		
	CATEGORY	STATION TO STA	TION LOCATION	l LF	LF	LF	LF	LF	LF	REMARKS	
	0010	443+78 - 813	3+50 CL	-	-	-	-	30,200	-	CIR LAYER	
	0010	443+78 - 813		-	-	-	-	30,200	-	LOWER LAYER	
	0010 0010	443+78 - 813 443+78 - 813		- -	- 35300	-	-	-	35,700 -	USH 63 YELLOW CENTERLINE USH 63 WHITE EDGELINE	
	0010	443+78 - 813		-	35400	-	-	-	-	USH 63 WHITE EDGELINE	
	0010	443+78 - 813		35,700	-	-	-	-	-	USH 63 CENTERLINE AFTER RUMBLES	
	0010 0010	5+00 - 12 813+50	+50 RT RT	<del>-</del> -	1,015 -	410	- 20	- -	<del>-</del>	USH 63 TO USH 8 RAMP	
	0010	444+00 - 445		60	-	-	-	-	-	СТН Ј	
	0010	547+46 - 551		-	73	144	-	-	-	W CLAYTON AVE TURN LANE/BYPASS LANE	
	0010 0010	571+56 - 574 579+77 - 584		-	- 130	160 110	-	-	-	W CLAYTON AVE TURN LANES CTH D TURN LANE/BYPASS LANE	
	0010	601+72 - 605		- -	55	115	-	-	-	CTH D TURN LANE/BYPASS LANE	
			TOTAL 001	0 35,760	71,973	939	20	60,400	35,700		
		CON:	CON S STRUCTION SUP					<u>CAT</u>	egory station	648.0100 LOCATING NO- PASSING ZONES N TO STATION LOCATION MI	
		CON: S	CON S STRUCTION SUP STAKING C	STRUCTION TAKING PLEMENTAL ONTROL						LOCATING NO- PASSING ZONES	
		CON: S RESI	CON STRUCTION SUP STAKING C URFACING (PR	STRUCTION TAKING PLEMENTAL						LOCATING NO- PASSING ZONES N TO STATION LOCATION MI  B - 813+50 C/L 7.01	
CATEGORY STATION TO STATIC	<u>)n</u> LOC.	CON: S RESI	CON STRUCTION SUP STAKING C URFACING (PR	STRUCTION TAKING PLEMENTAL ONTROL DJECT) (01.						LOCATING NO- PASSING ZONES N TO STATION LOCATION MI	
CATEGORY STATION TO STATIC 0010 443+78 - 813+5 0010 5+00 - 12+50	50 US 60 USH 63 TO	CON: S RESI RE CATION  SH 63 S USH 8 RAMP	CON STRUCTION SUP STAKING C URFACING (PR EFERENCE 15	STRUCTION TAKING PLEMENTAL ONTROL DJECT) (01. 60-04-72)				0	010 443+78	LOCATING NO- PASSING ZONES N TO STATION LOCATION MI  B - 813+50 C/L 7.01	
0010 443+78 - 813+5	50 USH 63 TO	CON: S RESI RE CATION  SH 63 S USH 8 RAMP	STRUCTION SUP STAKING C URFACING (PR EFERENCE 15 LF 36,972 750	STRUCTION TAKING PLEMENTAL ONTROL DJECT) (01. 50-04-72) LS  1				0	010 443+78	LOCATING NO-PASSING ZONES N TO STATION LOCATION MI  B - 813+50 C/L 7.01  TOTAL 0010 7.01	

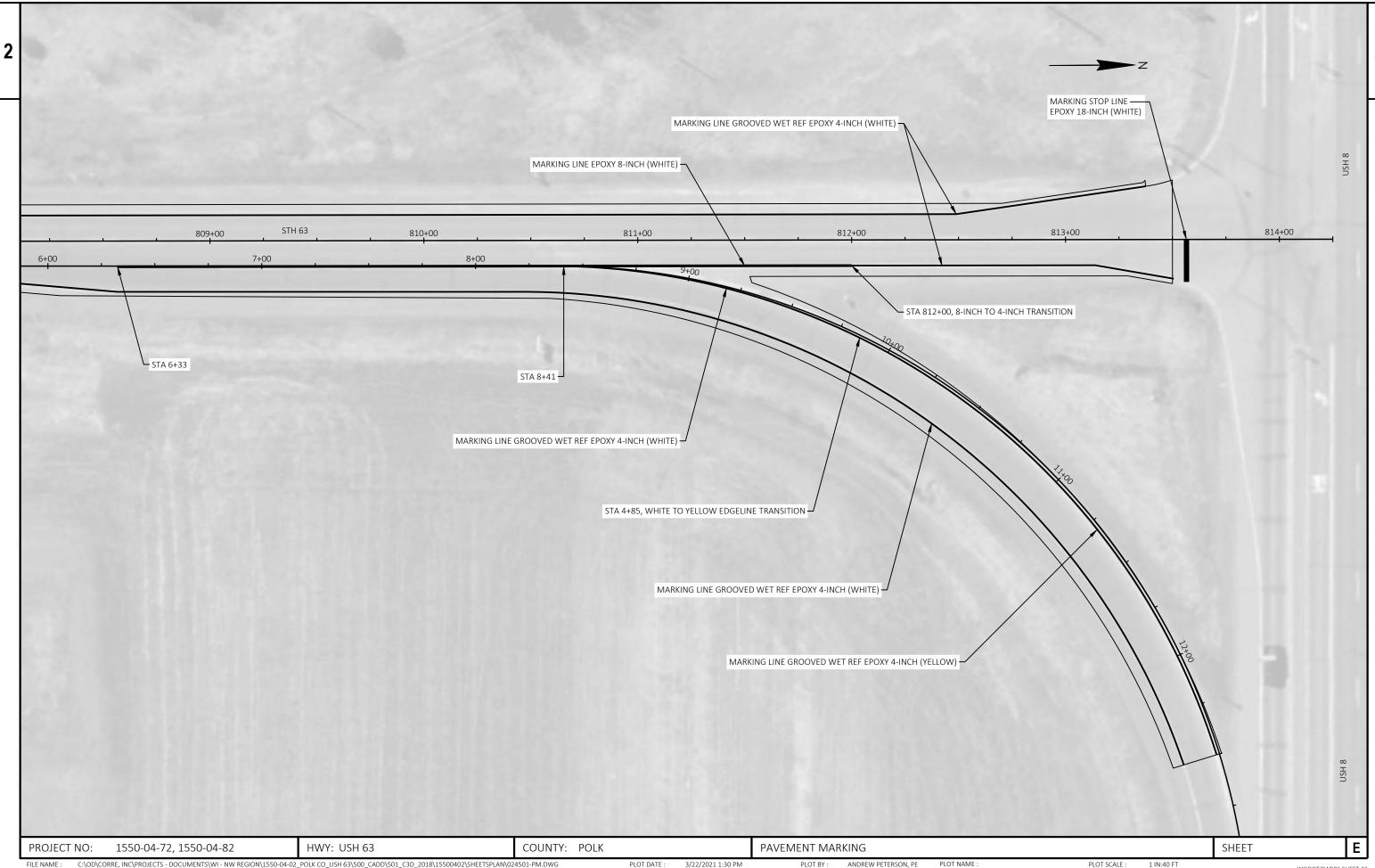
C:\OD\CORRE, INC\PI LAYOUT NAME - 04

		USH	63		
SUPERELEVATION TRAN	SITION EVENT			ATE	
POINTS LOCATION	I STATION	LEFT OF CRO			CROWNLINE
LUCATION	STATION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDE
				MOTT LANE	MOITI SHOOLDE
	1426.77.20	Curv		2 000/	1 1000/
- IndNormalShoulder	436+77.39	-4.00%	-2.00% -2.00%	-2.00%	-4.00%
EndNormalCrown	436+77.39	-4.00%		-2.00%	-4.00%
evelCrown	437+25.39	-4.00%	.00%	-2.00%	-4.00%
BeginFullSuper	437+73.39	-4.00%	2.00%	-2.00%	-4.00%
ReverseCrown	437+73.39	-4.00%	2.00%	-2.00%	-4.00%
EndFullSuper	452+38.34	-4.00%	2.00%	-2.00%	-4.00%
ReverseCrown	452+38.34	-4.00%	2.00%	-2.00%	-4.00%
evelCrown	452+86.34	-4.00%	.00%	-2.00%	-4.00%
BeginNormalCrown	453+34.34	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	453+34.34	-4.00%	-2.00%	-2.00%	-4.00%
	T	Curv			T
ndNormalShoulder	485+17.63	-4.00%	-2.00%	-2.00%	-4.00%
ndNormalCrown	485+17.63	-4.00%	-2.00%	-2.00%	-4.00%
evelCrown	485+65.63	-4.00%	-2.00%	.00%	-4.00%
ReverseCrown	486+13.63	-4.00%	-2.00%	2.00%	-4.00%
BeginFullSuper	486+49.63	-4.00%	-3.50%	3.50%	-4.00%
EndFullSuper	495+30.61	-4.00%	-3.50%	3.50%	-4.00%
ReverseCrown	495+66.61	-4.00%	-2.00%	2.00%	-4.00%
_evelCrown	496+14.61	-4.00%	-2.00%	.00%	-4.00%
BeginNormalCrown	496+62.61	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	496+62.61	-4.00%	-2.00%	-2.00%	-4.00%
		Curv	e 3		_
EndNormalShoulder	513+16.02	-4.00%	-2.00%	-2.00%	-4.00%
EndNormalCrown	513+16.02	-4.00%	-2.00%	-2.00%	-4.00%
_evelCrown	513+69.35	-4.00%	.00%	-2.00%	-4.00%
ReverseCrown	514+22.68	-4.00%	2.00%	-2.00%	-4.00%
_owShoulderMatch	514+76.02	-4.00%	4.00%	-4.00%	-4.00%
BeginShoulderRollover	514+76.02	-4.00%	4.00%	-2.00%	-4.00%
BeginFullSuper	514+89.35	-3.50%	4.50%	-4.50%	-4.50%
EndFullSuper	534+30.08	-3.50%	4.50%	-4.50%	-4.50%
_owShoulderMatch	534+43.41	-4.00%	4.00%	-4.00%	-4.00%
EndShoulderRollover	534+43.41	-4.00%	4.00%	-2.00%	-4.00%
ReverseCrown	534+96.74	-4.00%	2.00%	-2.00%	-4.00%
_evelCrown	535+50.08	-4.00%	.00%	-2.00%	-4.00%
BeginNormalCrown	536+03.41	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	536+03.41	-4.00%	-2.00%	-2.00%	-4.00%
		Curv	e 4	•	•
ndNormalShoulder	547+07.56	-4.00%	-2.00%	-2.00%	-4.00%
EndNormalCrown	547+07.56	-4.00%	-2.00%	-2.00%	-4.00%
_evelCrown	547+60.89	-4.00%	-2.00%	.00%	-4.00%
ReverseCrown	548+14.23	-4.00%	-2.00%	2.00%	-4.00%
.owShoulderMatch	548+67.56	-4.00%	-4.00%	4.00%	-4.00%
BeginShoulderRollover	548+67.56	-4.00%	-2.00%	4.00%	-4.00%
BeginFullSuper	548+80.89	-4.50%	-4.50%	4.50%	-3.50%
EndFullSuper	559+11.60	-4.50%	-4.50%	4.50%	-3.50%
.owShoulderMatch	559+24.93	-4.00%	-4.00%	4.00%	-4.00%
EndShoulderRollover	559+24.93	-4.00%	-2.00%	4.00%	-4.00%
ReverseCrown	559+78.27	-4.00%	-2.00%	2.00%	-4.00%
evelCrown	560+31.60	-4.00%	-2.00%	.00%	-4.00%
BeginNormalCrown	560+84.93	-4.00%	-2.00%	-2.00%	-4.00%
BeginNormalShoulder	560+84.93	-4.00%	-2.00%	-2.00%	-4.00%

		USH	63						
SUPERELEVATION TRAN: POINTS	SITION EVENT	RATE							
LOCATION	LOCATION STATION		OWNLINE	RIGHT OF CROWNLINE					
			LEFT SHOULDER LEFT LANE		RIGHT SHOULDER				
		Curv	re 5						
EndNormalShoulder	574+72.78	-4.00%	-2.00%	-2.00%	-4.00%				
End Normal Crown	574+72.78	-4.00%	-2.00%	-2.00%	-4.00%				
LevelCrown	575+20.78	-4.00%	-2.00%	.00%	-4.00%				
ReverseCrown	575+68.78	-4.00%	-2.00%	2.00%	-4.00%				
BeginFullSuper	576+04.78	-4.00%	-3.50%	3.50%	-4.00%				
EndFullSuper	588+92.13	-4.00%	-3.50%	3.50%	-4.00%				
ReverseCrown	589+28.13	-4.00%	-2.00%	2.00%	-4.00%				
LevelCrown	589+76.13	-4.00%	-2.00%	.00%	-4.00%				
BeginNormalCrown	590+24.13	-4.00% -2.00%		-2.00%	-4.00%				
BeginNormalShoulder	590+24.13	-4.00%	-2.00%	-2.00%	-4.00%				
		Curv	re 6						
End Normal Shoulder	607+70.14	-4.00%	-2.00%	-2.00%	-4.00%				
End Normal Crown	607+70.14	-4.00%	-2.00%	-2.00%	-4.00%				
LevelCrown	608+23.59	-4.00%	-2.00%	.00%	-4.00%				
ReverseCrown	608+77.05	-4.00%	-2.00%	2.00%	-4.00%				
LowShoulderMatch	609+30.50	-4.00%	-4.00%	4.00%	-4.00%				
BeginShoulderRollover	609+30.50	-4.00%	-2.00%	4.00%	-4.00%				
BeginFullSuper	609+70.59	-5.50%	-5.50%	5.50%	-2.50%				
EndFullSuper	617+64.50	-5.50%	-5.50%	5.50%	-2.50%				
LowShoulderMatch	618+04.59	-4.00%	-4.00%	4.00%	-4.00%				
EndShoulderRollover	618+04.59	-4.00%	-2.00%	4.00%	-4.00%				
ReverseCrown	618+58.05	-4.00%	-2.00%	2.00%	-4.00%				
LevelCrown	619+11.50	-4.00%	-2.00%	.00%	-4.00%				
BeginNormalCrown	619+64.96	-4.00%	-2.00%	-2.00%	-4.00%				
BeginNormalShoulder	619+64.96	-4.00%	-2.00%	-2.00%	-4.00%				

63 TO 8 RAMP									
SUPERELEVATION TRANS POINTS	ITION EVENT	RATE							
LOCATION	STATION	LEFT OF CF	ROWNLINE	RIGHT OF	CROWNLINE				
		LEFT SHOULDER LEFT LANE		RIGHT LANE	RIGHT SHOULDER				
		Cur	ve 1		•				
EndNormalShoulder	7+33.17	-4.00%	-2.00%	-2.00%	-4.00%				
EndNormalCrown	7+33.17	-4.00%	-2.00%	-2.00%	-4.00%				
LevelCrown	7+69.66	-4.00%	.00%	-2.00%	-4.00%				
ReverseCrown	8+06.15	-4.00%	2.00%	-2.00%	-4.00%				
LowShoulderMatch	8+42.64	-4.00%	4.00%	-4.00%	-4.00%				
BeginFullSuper	8+73.66	-4.00%	5.70%	-5.70%	-5.70%				
EndFullSuper	13+03.88	-4.00%	5.70%	-5.70%	-5.70%				
LowShoulderMatch	13+34.90	-4.00%	4.00%	-4.00%	-4.00%				
ReverseCrown	13+71.39	-4.00%	2.00%	-2.00%	-4.00%				
LevelCrown	14+07.88	-4.00%	.00%	-2.00%	-4.00%				
BeginNormalCrown	14+44.37	-4.00%	-2.00%	-2.00%	-4.00%				
BeginNormalShoulder	14+44.37	-4.00%	-2.00%	-2.00%	-4.00%				

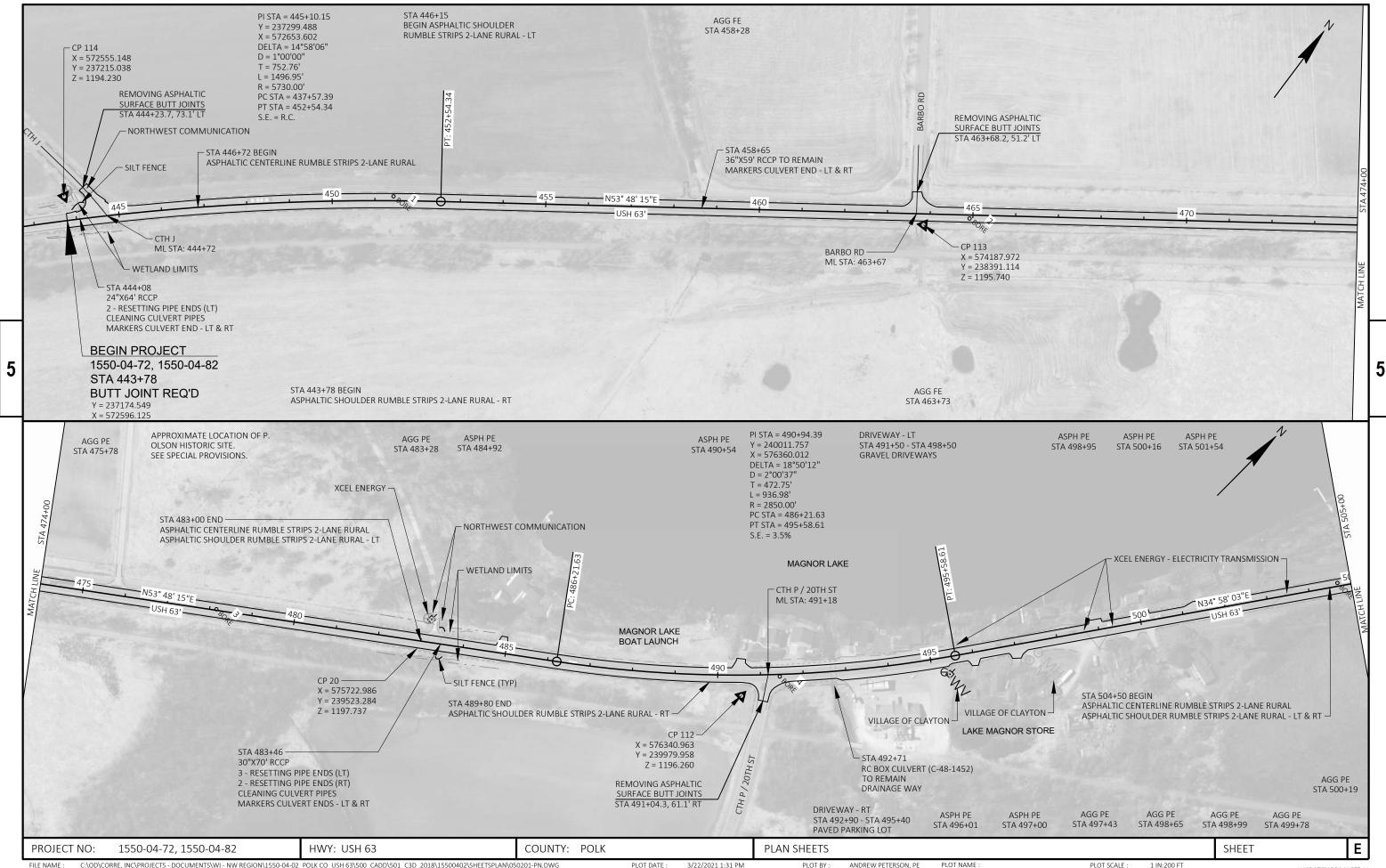
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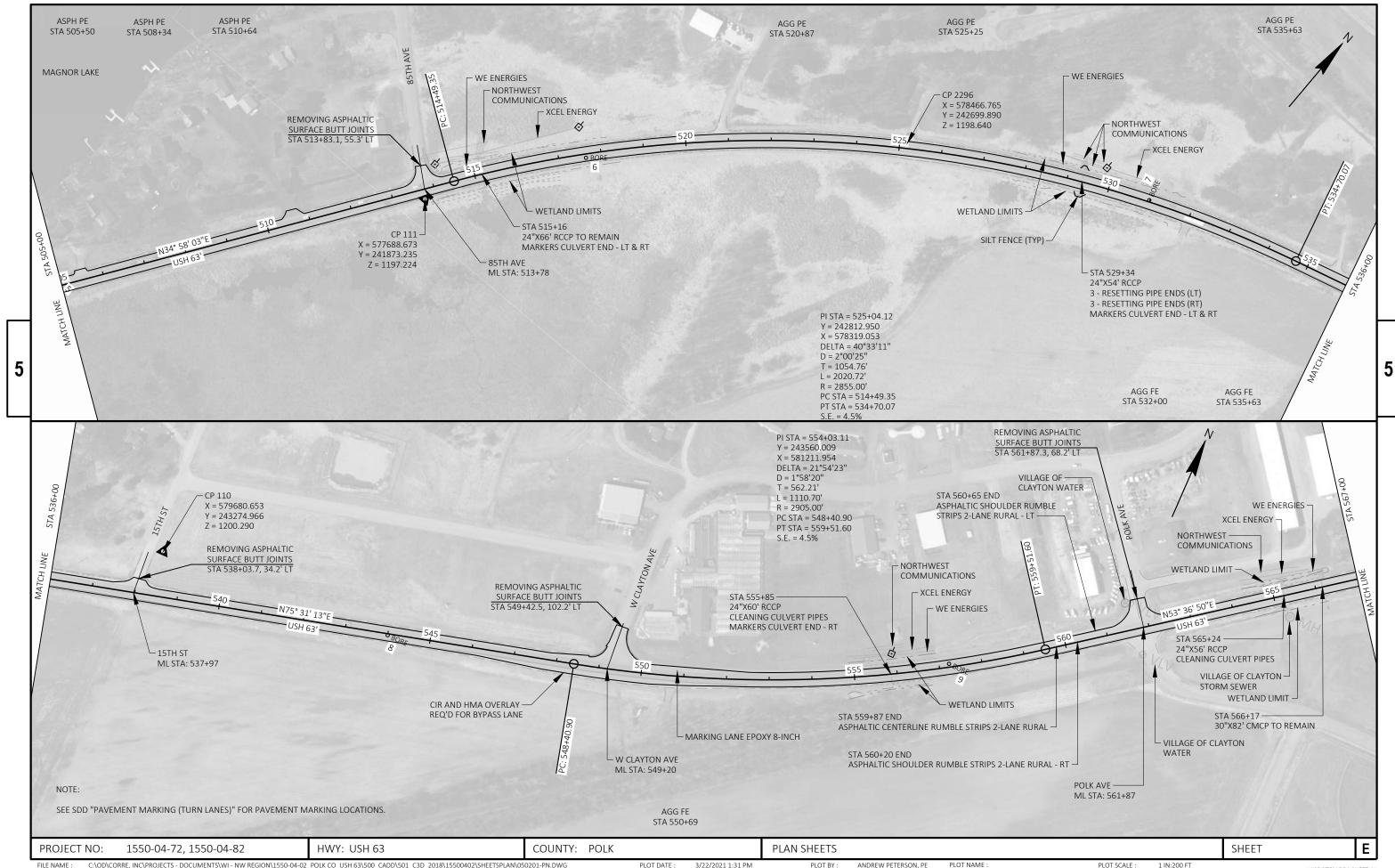


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PLOT SCALE :

WISDOT/CADDS SHEET 42



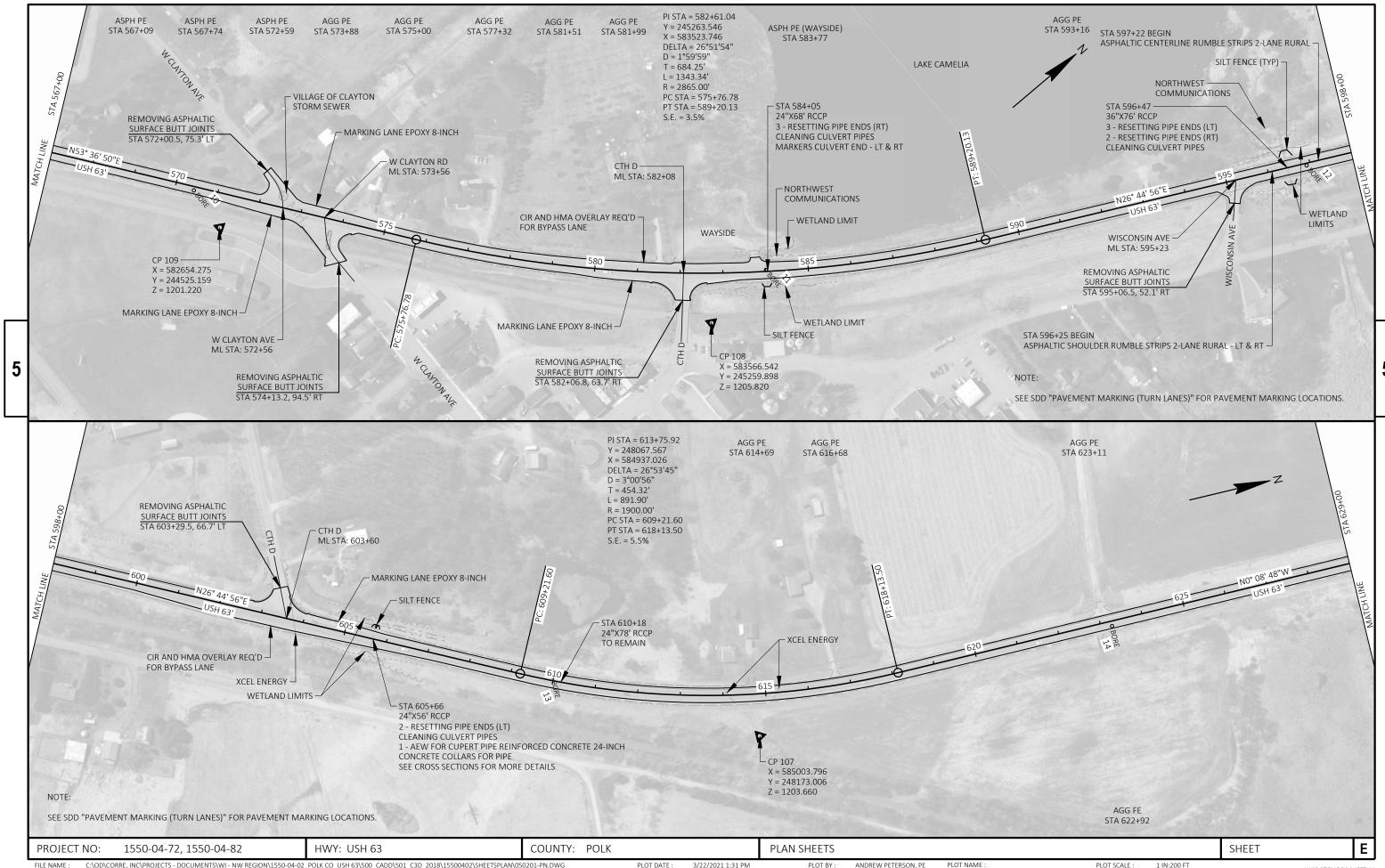


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3/22/2021 1:31 PM

ANDREW PETERSON, PE

PLOT SCALE :



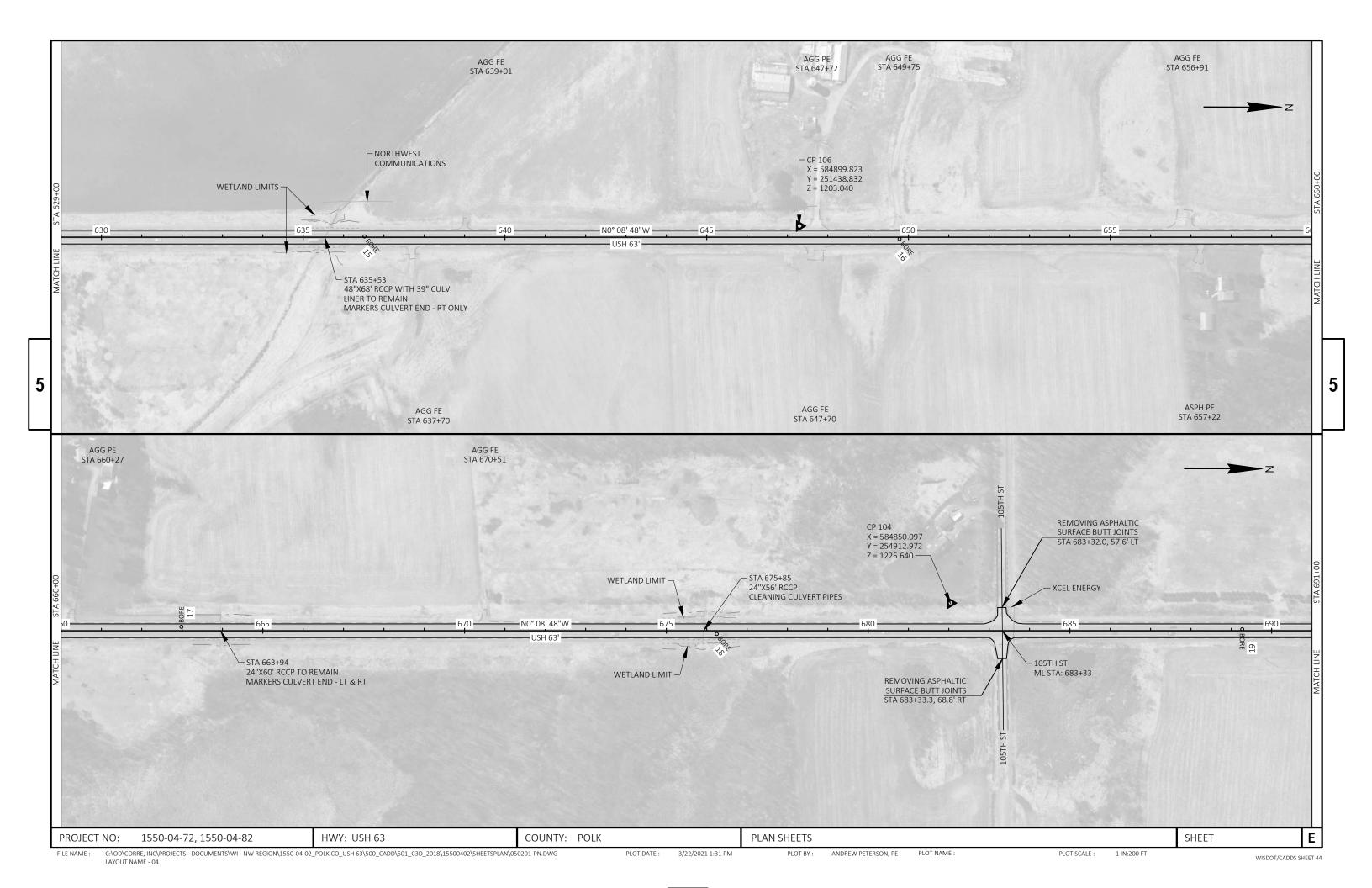
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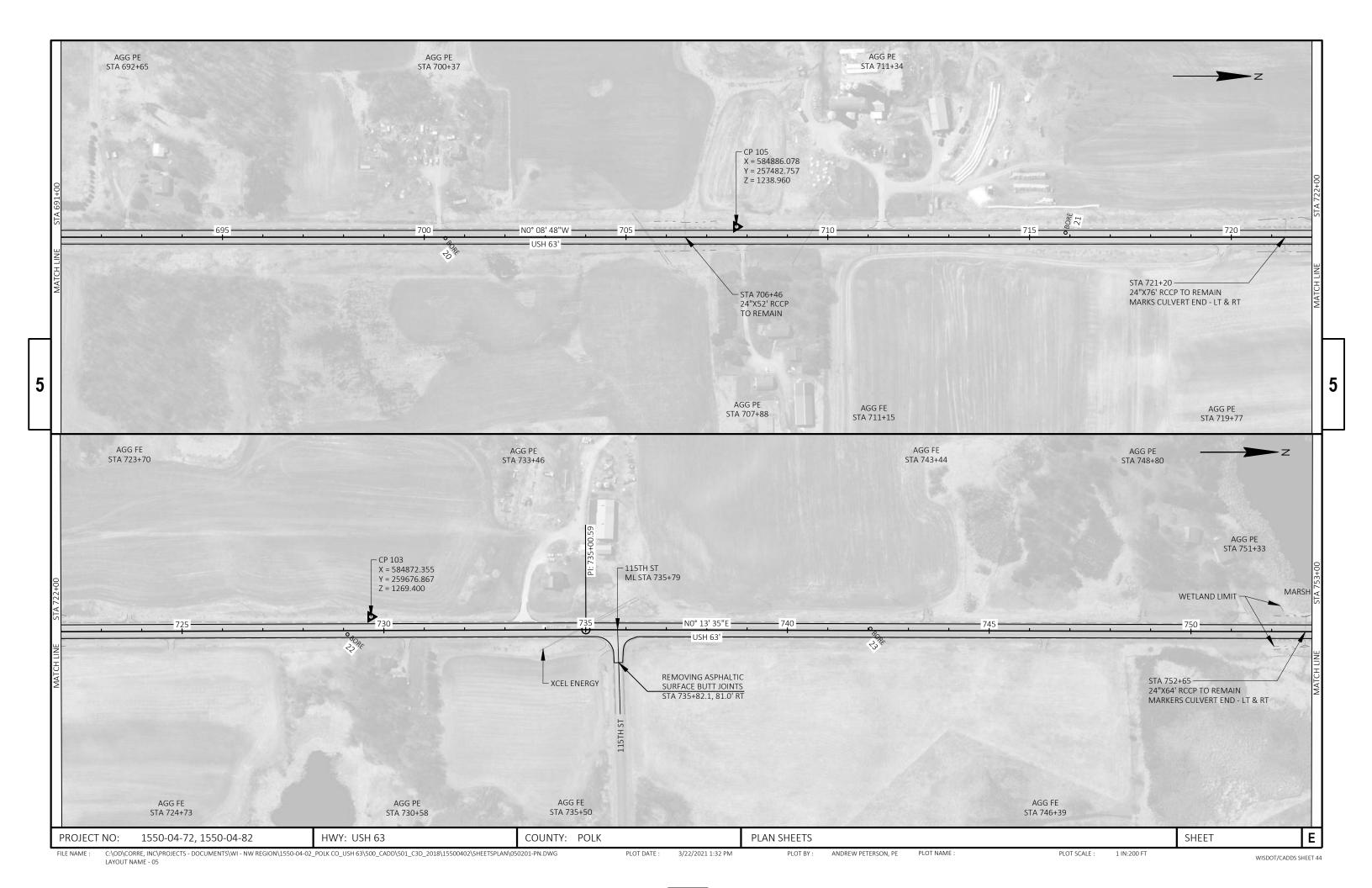
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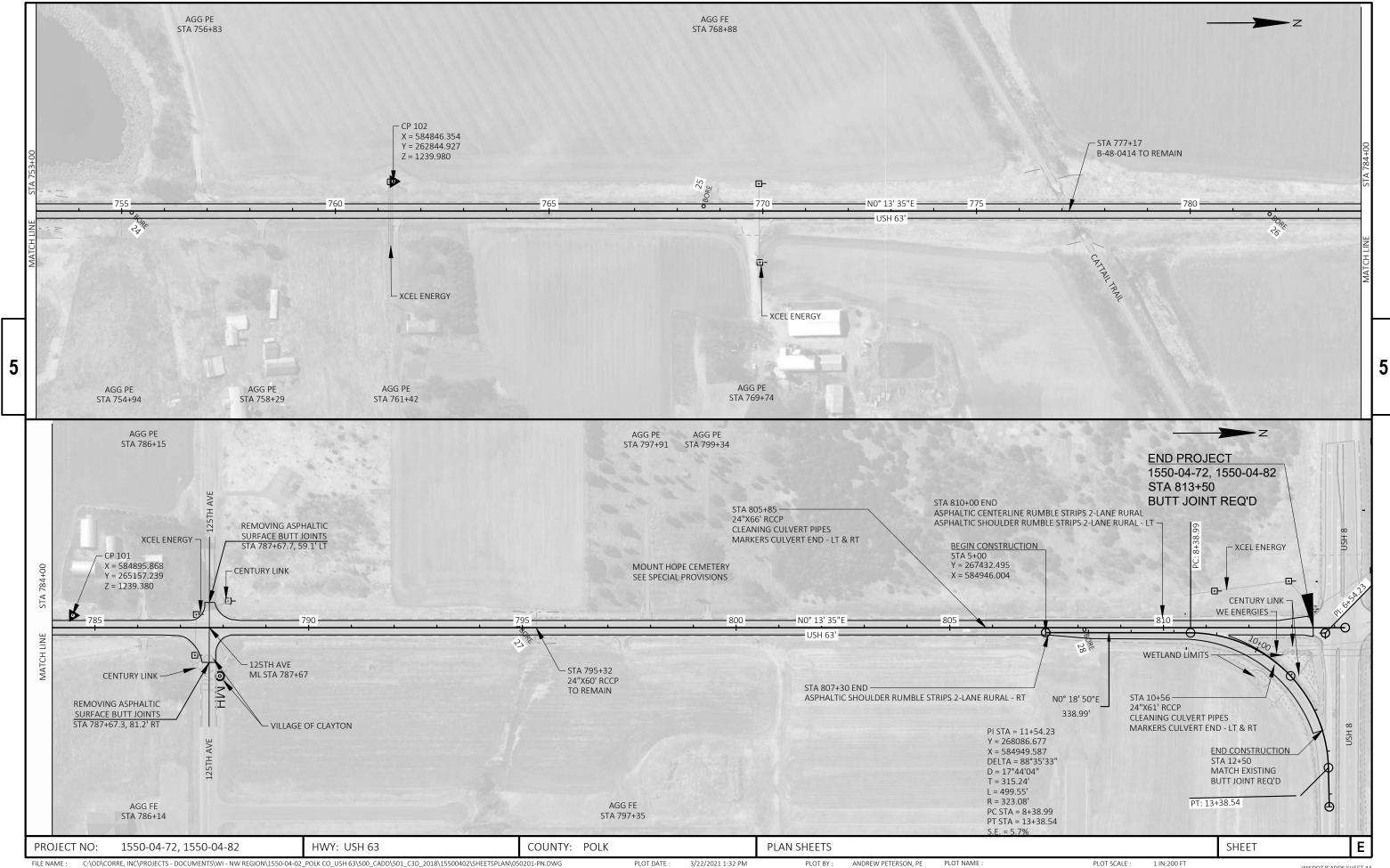
ANDREW PETERSON, PE

PLOT SCALE :

WISDOT/CADDS SHEET 44







LAYOUT NAME - 06

3/22/2021 1:32 PM

WISDOT/CADDS SHEET 44

# Standard Detail Drawing List

08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

# TYPICAL APPLICATION OF SILT FENCE

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# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



# GENERAL NOTES

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

- $\bigcirc$  HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



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END CORNER

1/16" DIA. HOLES FOR

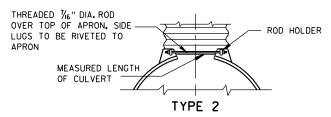
BOLTS OR RIVETS -

12" C-C MAX. SPACING

METAL APRON ENDWALLS											
PIPE	MIN. T	HICK.	DIMENSIONS (Inches)								
DIA. (IN.)	(Inches) STEEL ALUM.		A (±]")	B (MAX.)	H (±]")	L (±1 ½")	<u>1</u> ()	L 2	₩ (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1 Pc.
18	.064	.060	8	10	6	31	15	281/4	36	$2\frac{1}{2}$ to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	$2\frac{1}{2}$ to 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+0 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	2½+o 1	1Pc.
36	.079	<b>.</b> 105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	<b>.</b> 105	16	22	11	69	24	75%	84	21/2+o 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 <sup>1</sup> / <sub>4</sub> †o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 <sup>1</sup> / <sub>4</sub> †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	1½+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	ı	ı	150	1½+0 1	3 Pc.

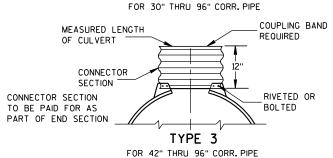
	REINFORCED CONCRETE APRON ENDWALLS										
PIPE		APPROX.									
DIA.	T	A	В	С	D	E	G	SLOPE			
12	2	4	24	48 1/8	721/8	24	2	3 to 1			
15	21/4	6	27	46	73	30	21/4	3 to 1			
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1			
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1			
24	3	91/2	431/2	30	731/2	48	3	3 to 1			
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1			
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1			
36	4	15	63	34¾	97¾	72	4	3 to 1			
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1			
48	5	24	72	26	98	84	5	3 to 1			
54	51/2		65	**************************************	98 <sup>1</sup> /4- 100	90	51/2	2% to 1			
60	6	* ** 30-35	60	39	99	96	5	2 to 1			
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1			
72	7	* ** 24-36	78	21	99	108	6	2 to 1			
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1			
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1			
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1			

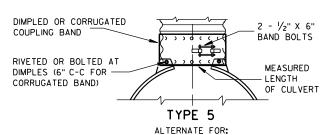
END SECTION CONNECTOR STRAP THREADED 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT



TYPE 1

FOR 12" THRU 24" CORR. PIPE





ALL SIZES CORRUGATED CIRCULAR PIPE

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

> FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

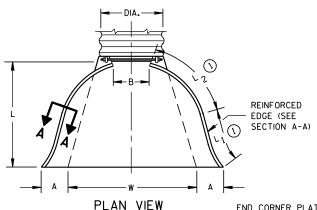
CONNECTION DETAILS

1" WIDE. 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION

\*MINIMUM \*\*MAXIMUM

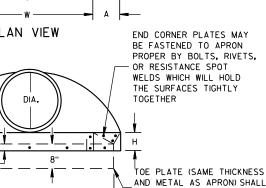
OPTIONAL

DESIGN



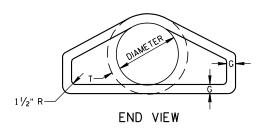
\* EXCEPT CENTER PANEL

SEE GENERAL NOTES

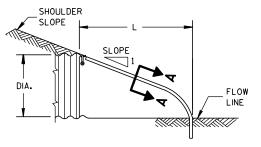


BE FURNISHED WHEN CALLED

FOR ON THE PLANS

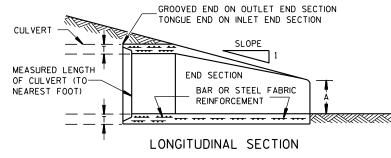


PLAN

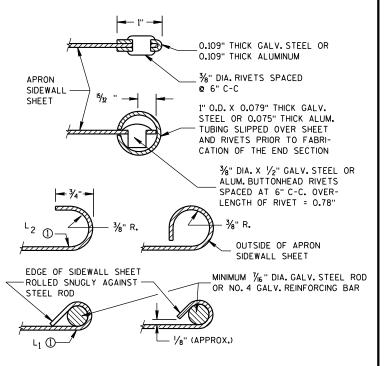


END VIEW





CONCRETE ENDWALLS



# SECTION A-A

# GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

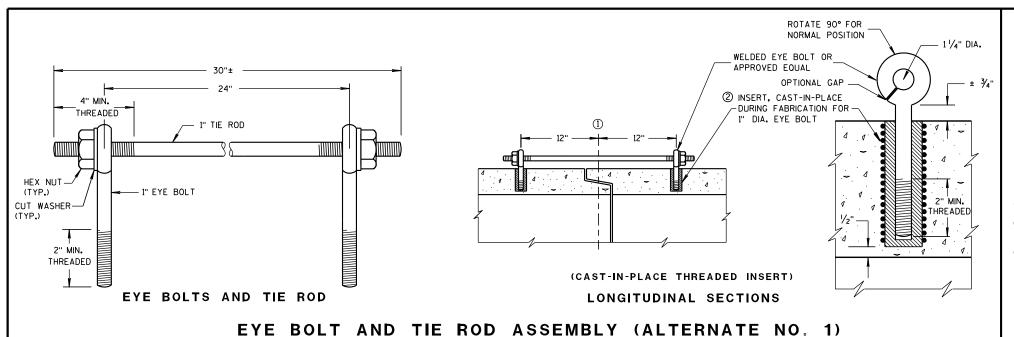
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



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11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



# **GENERAL NOTES**

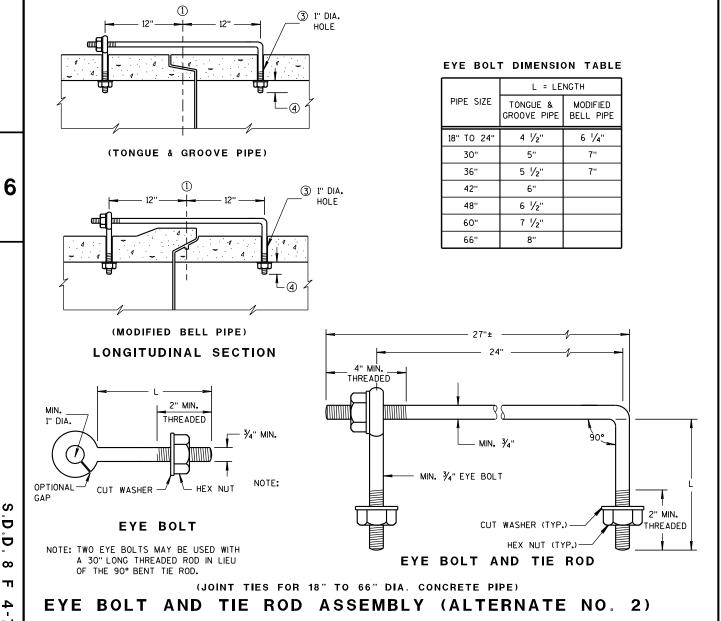
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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

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

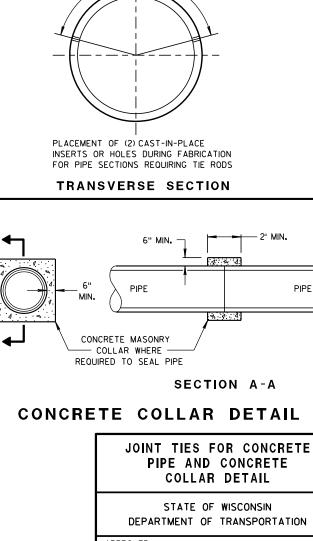
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$  HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM  ${\mathfrak C}$  OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN  $rac{1}{2}$  INCH OF THE INNER SURFACE OF THE PIPE.



# ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED FILL WITH MORTAR SLEEVE NUTS (SEE DETAILS) LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



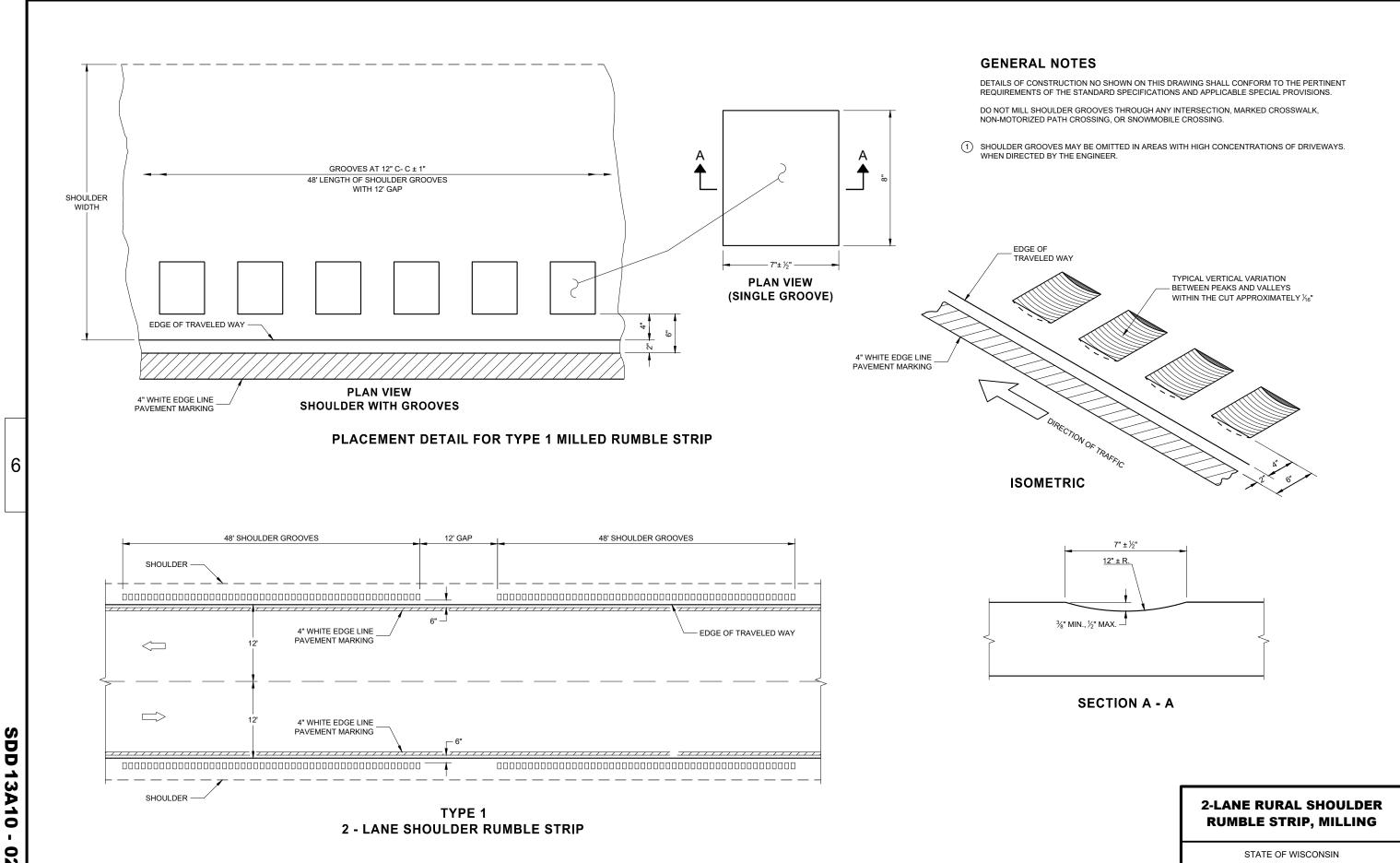
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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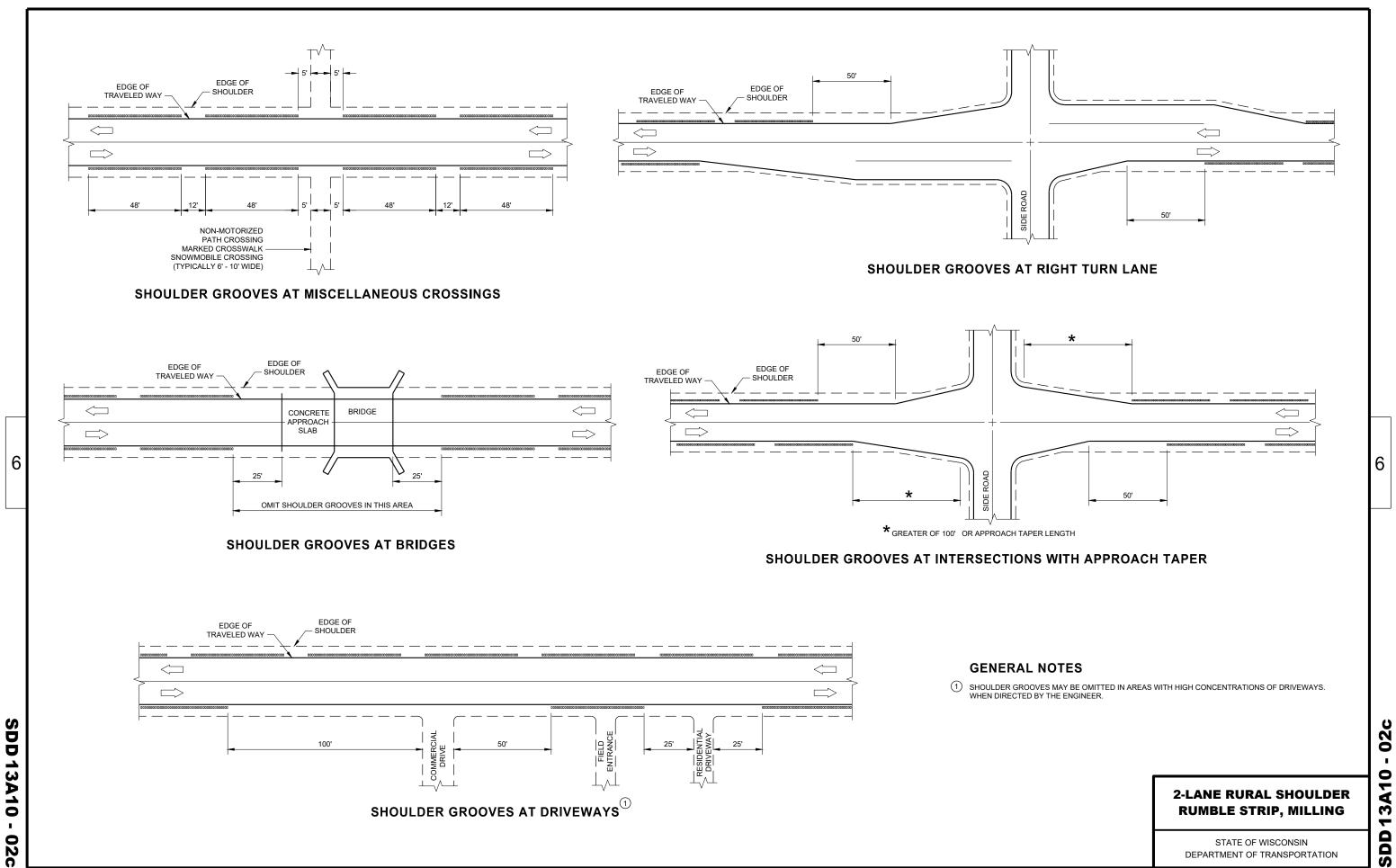
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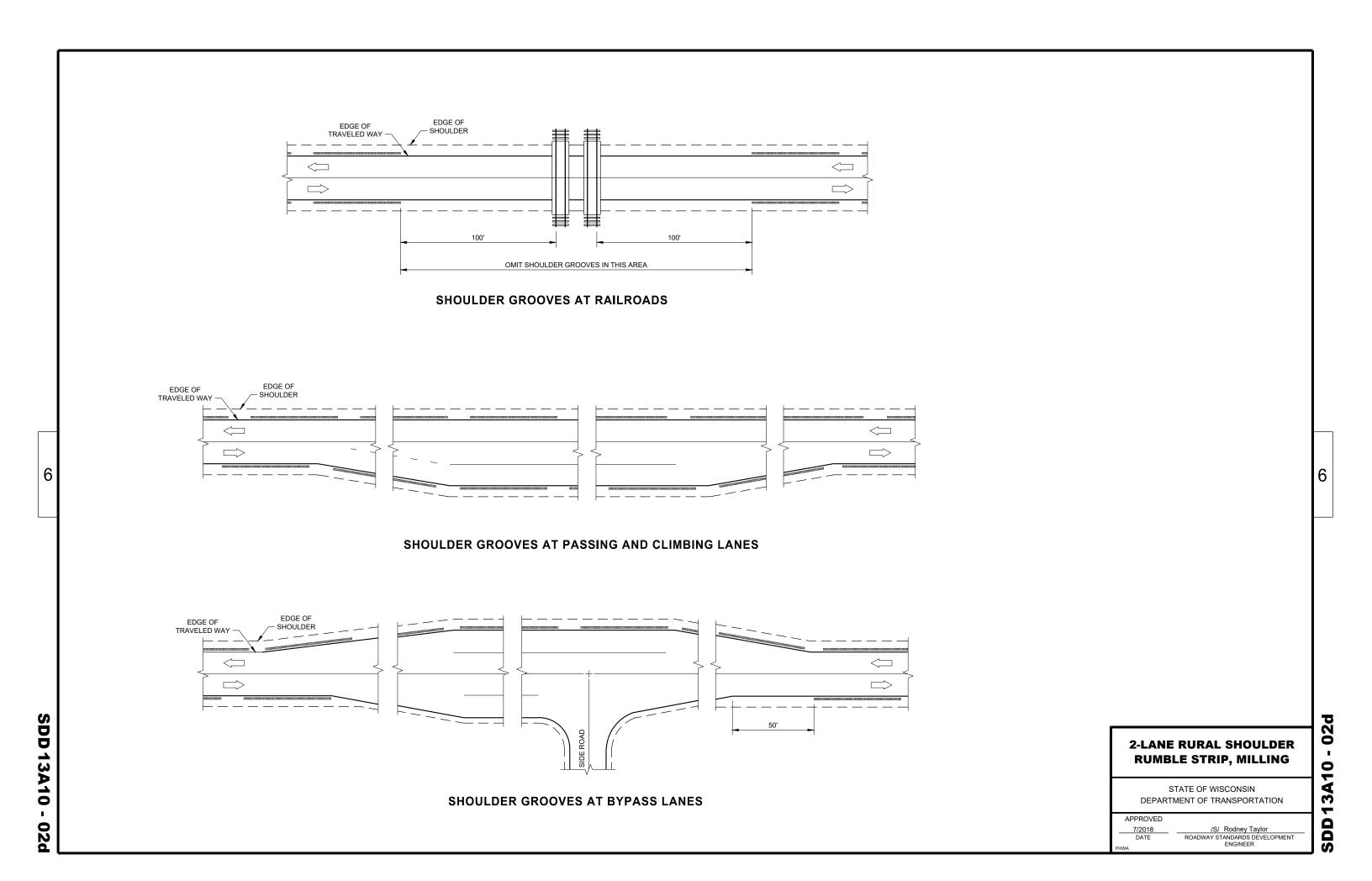
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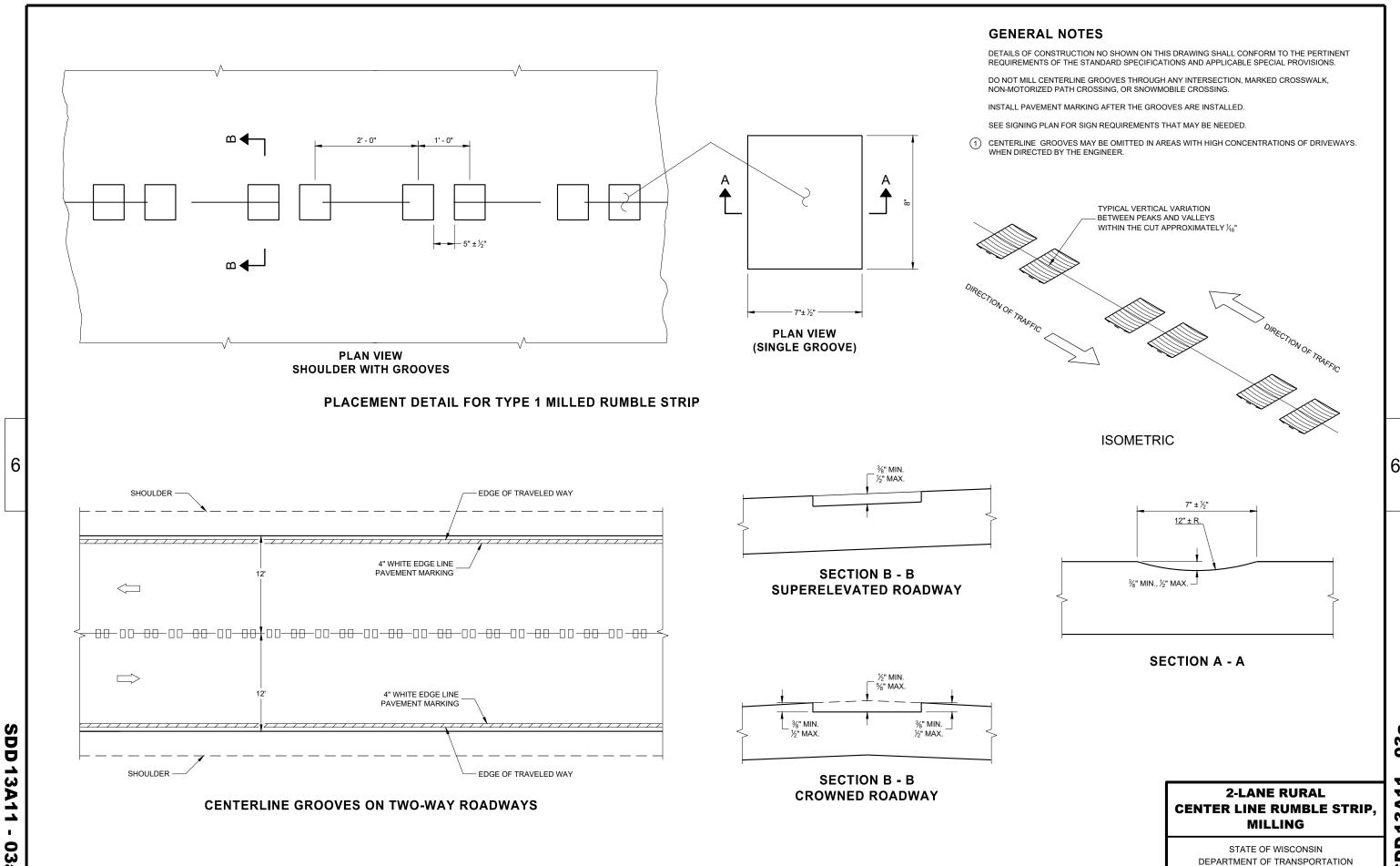


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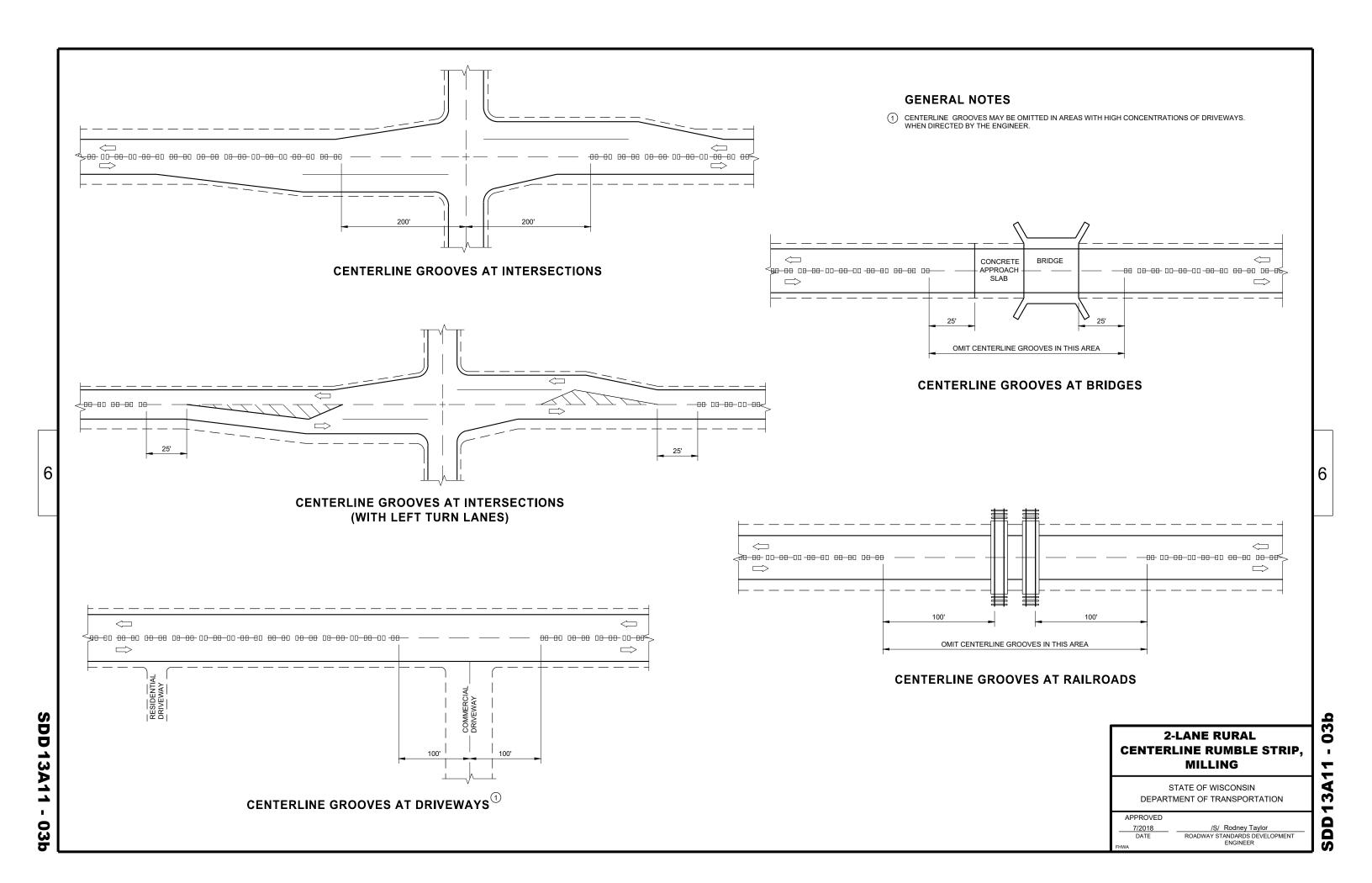
DEPARTMENT OF TRANSPORTATION

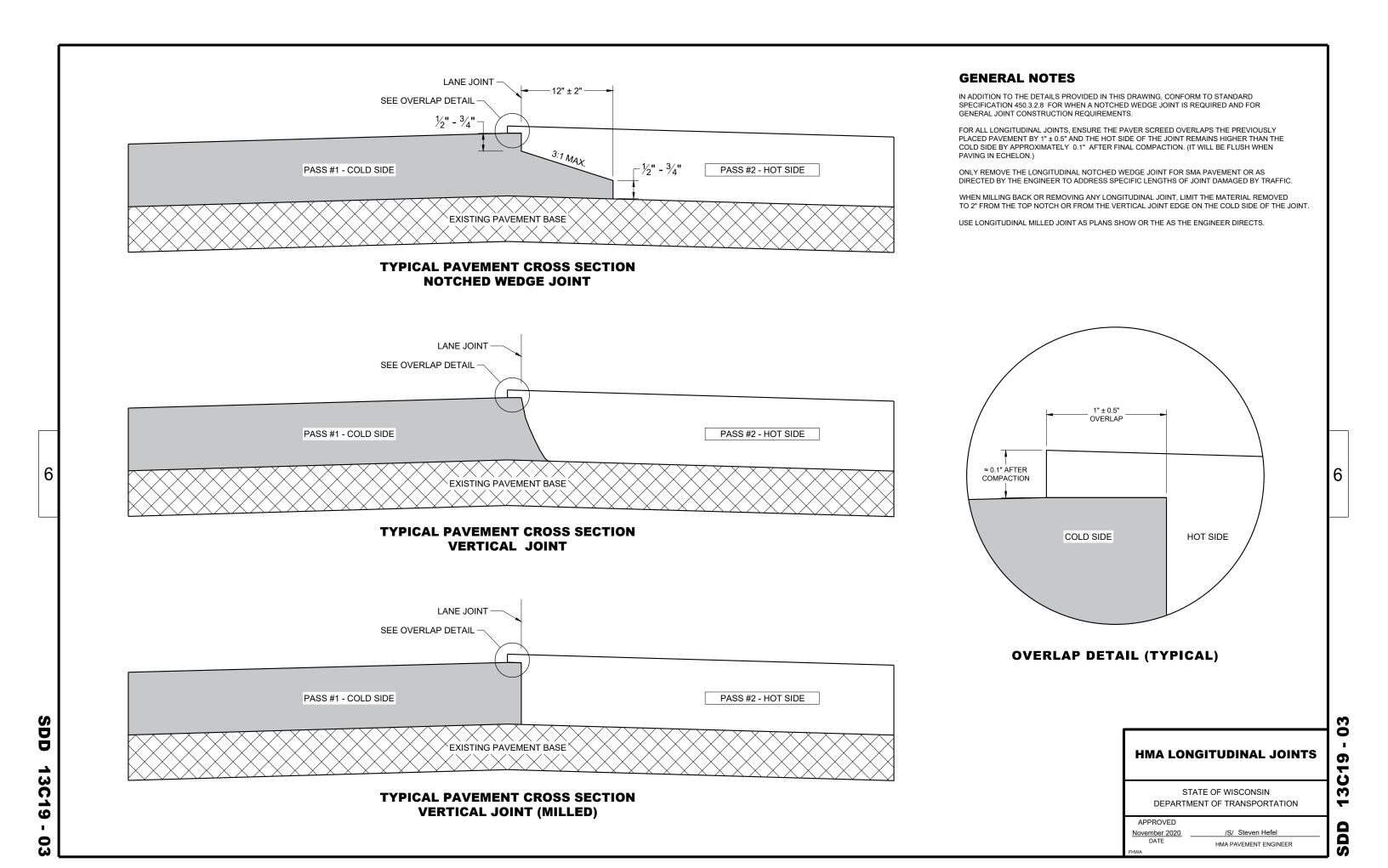


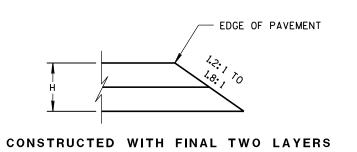


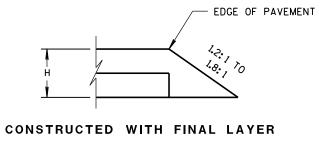


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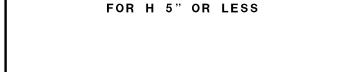


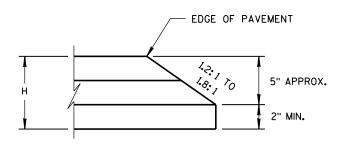






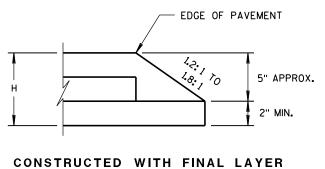
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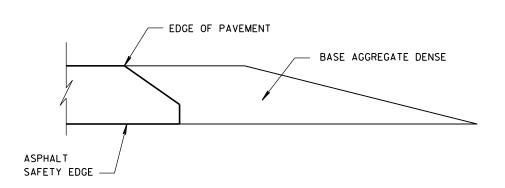


CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

HMA PAVEMENT AND HMA OVERLAYS

SAFETY EDGE SM

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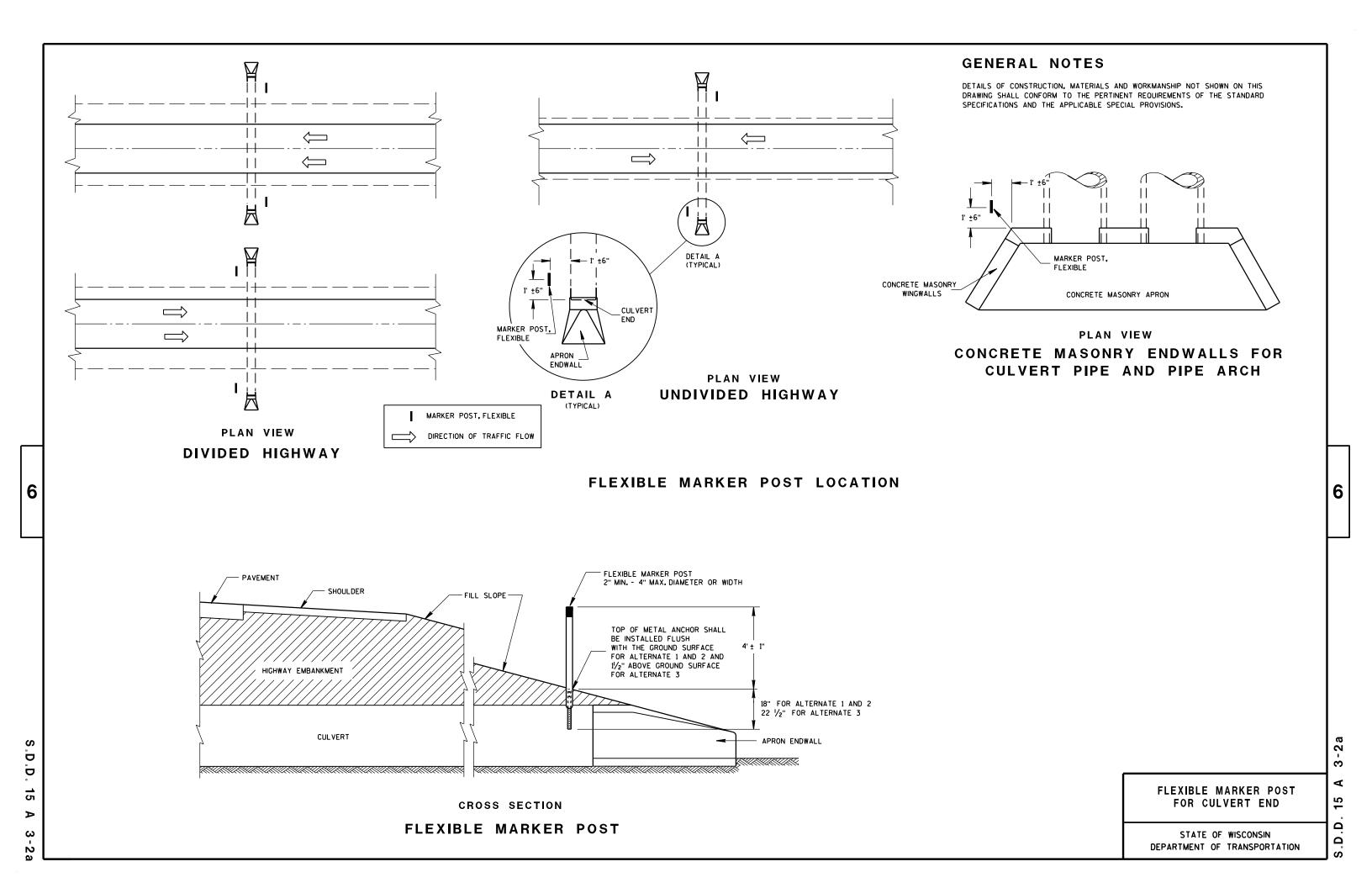
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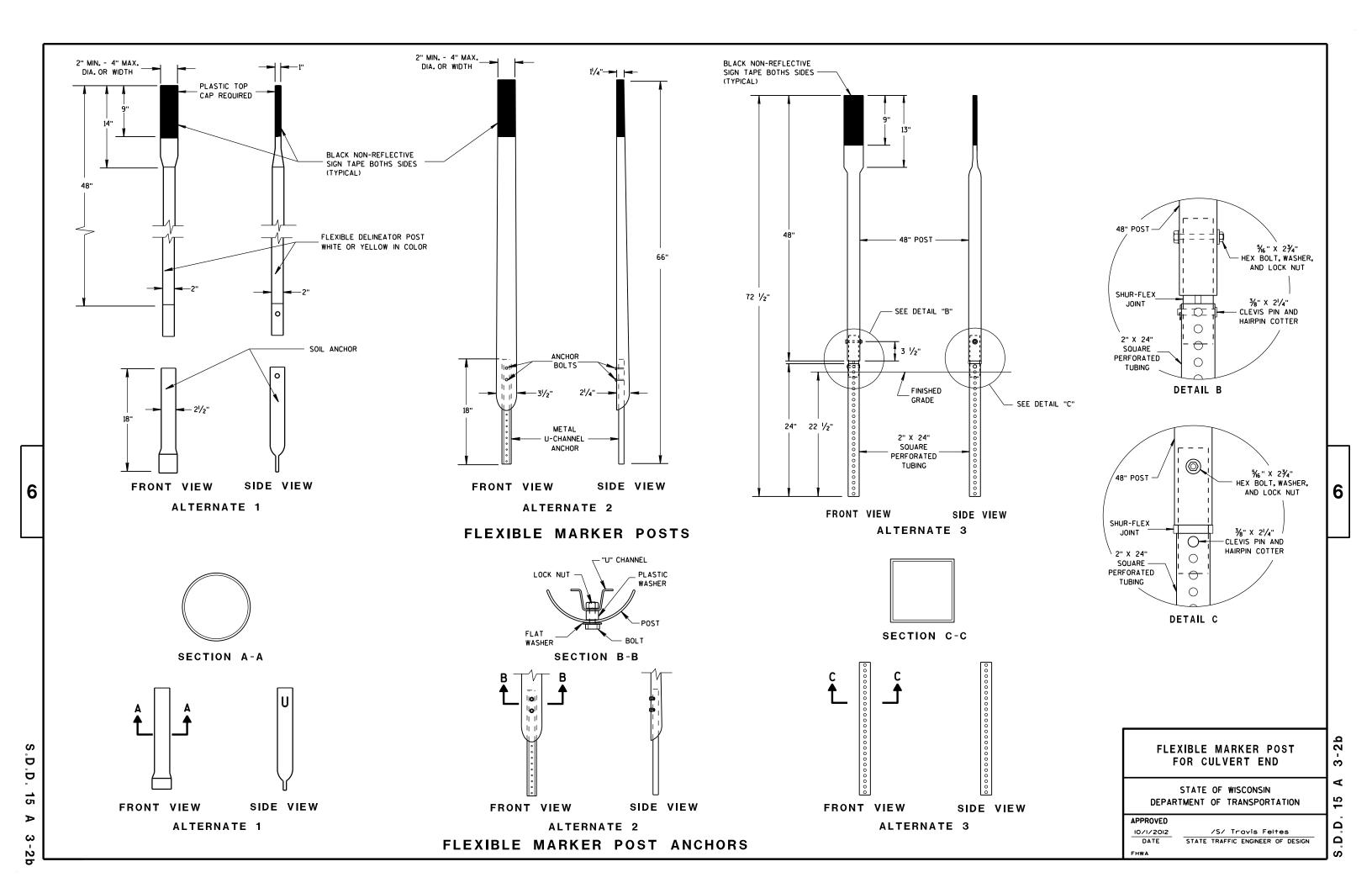
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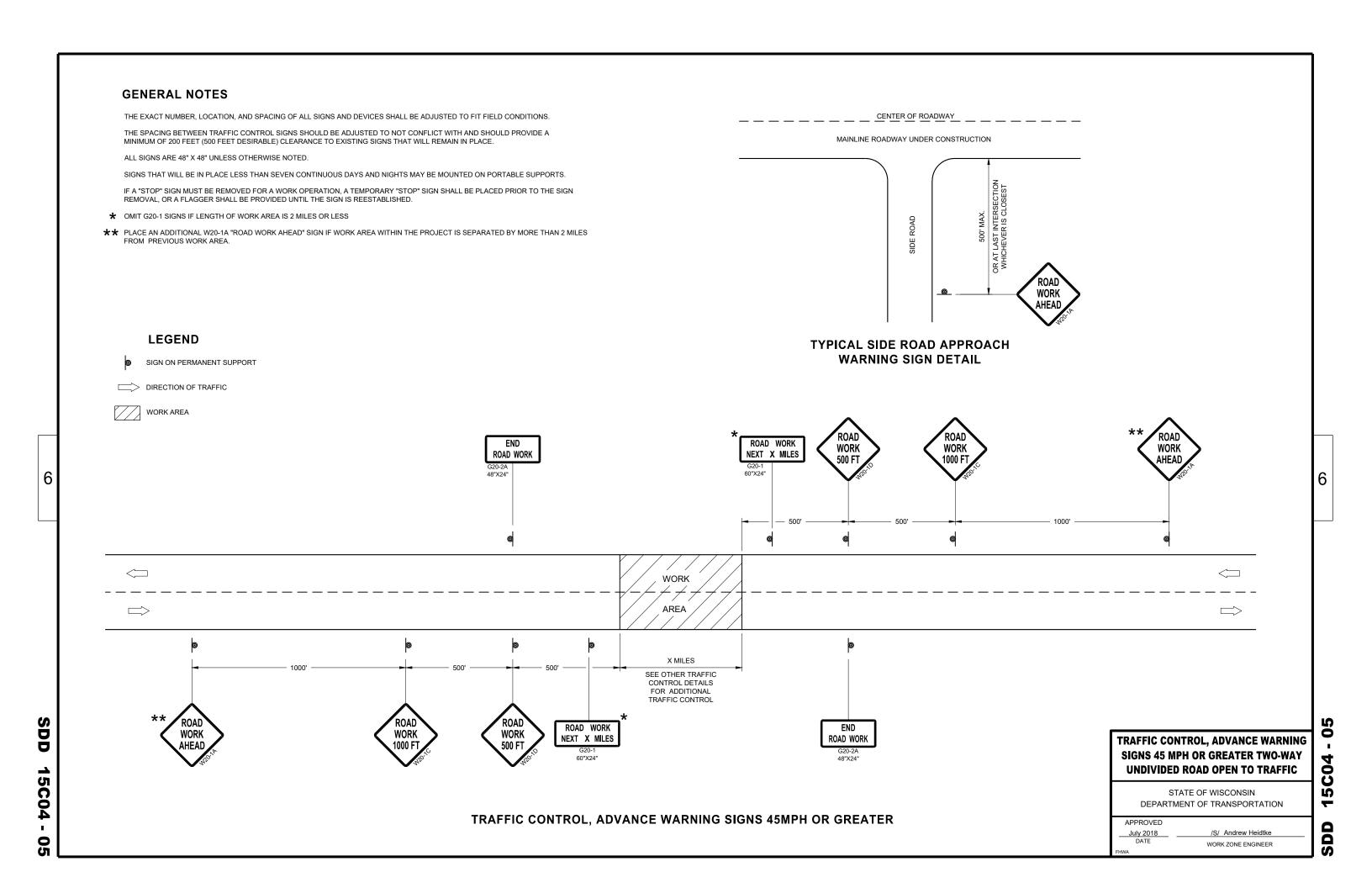
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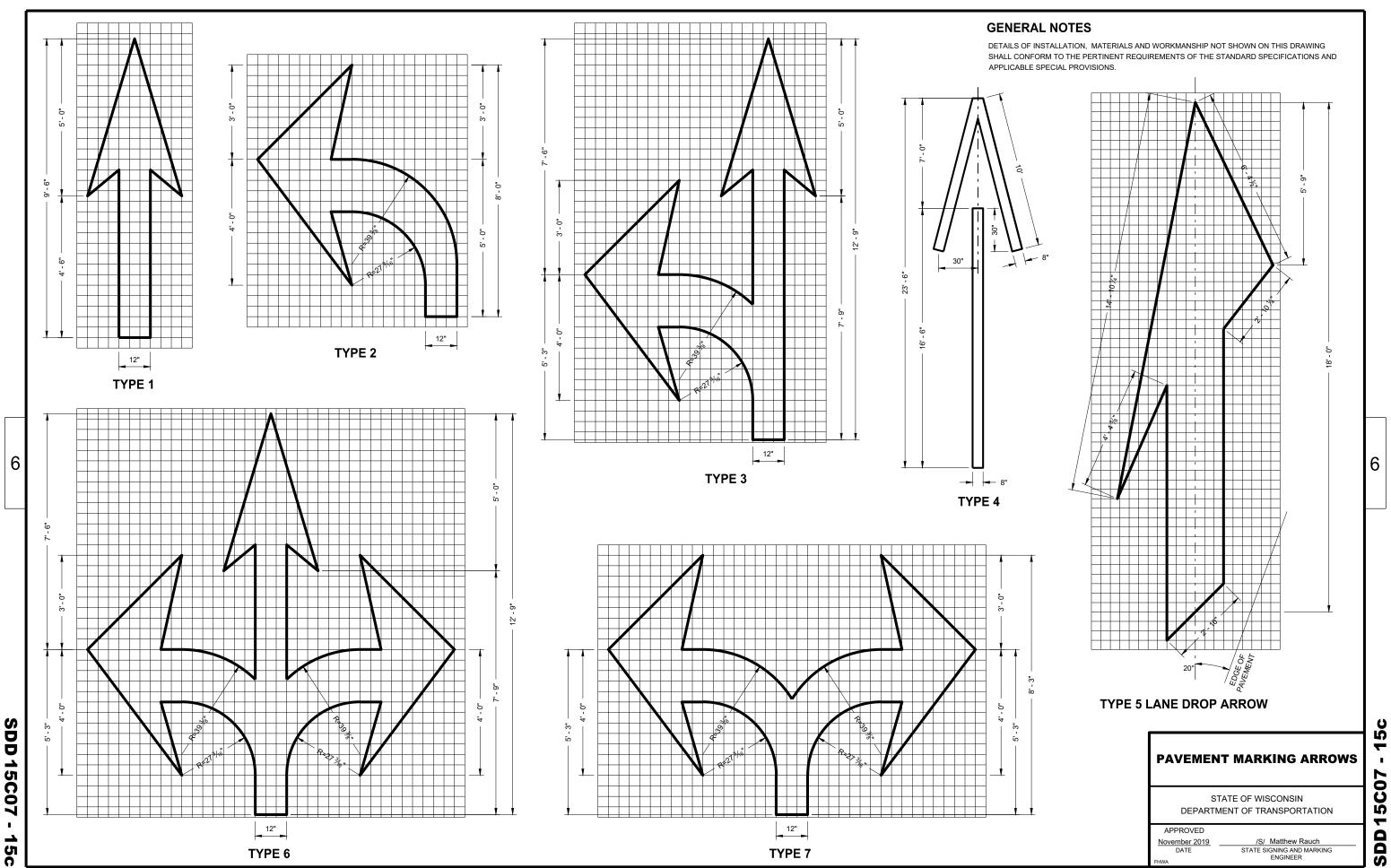
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DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER





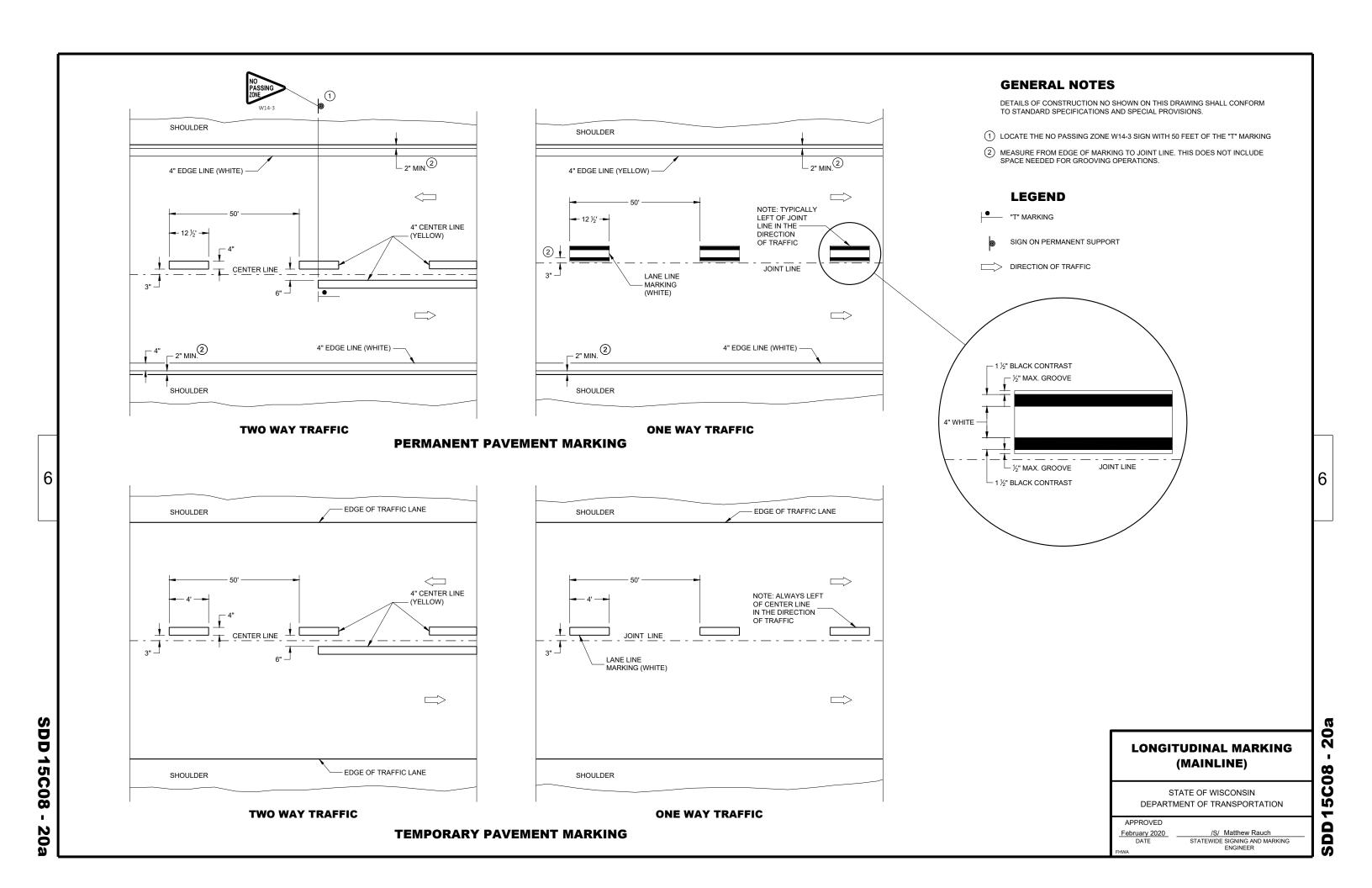


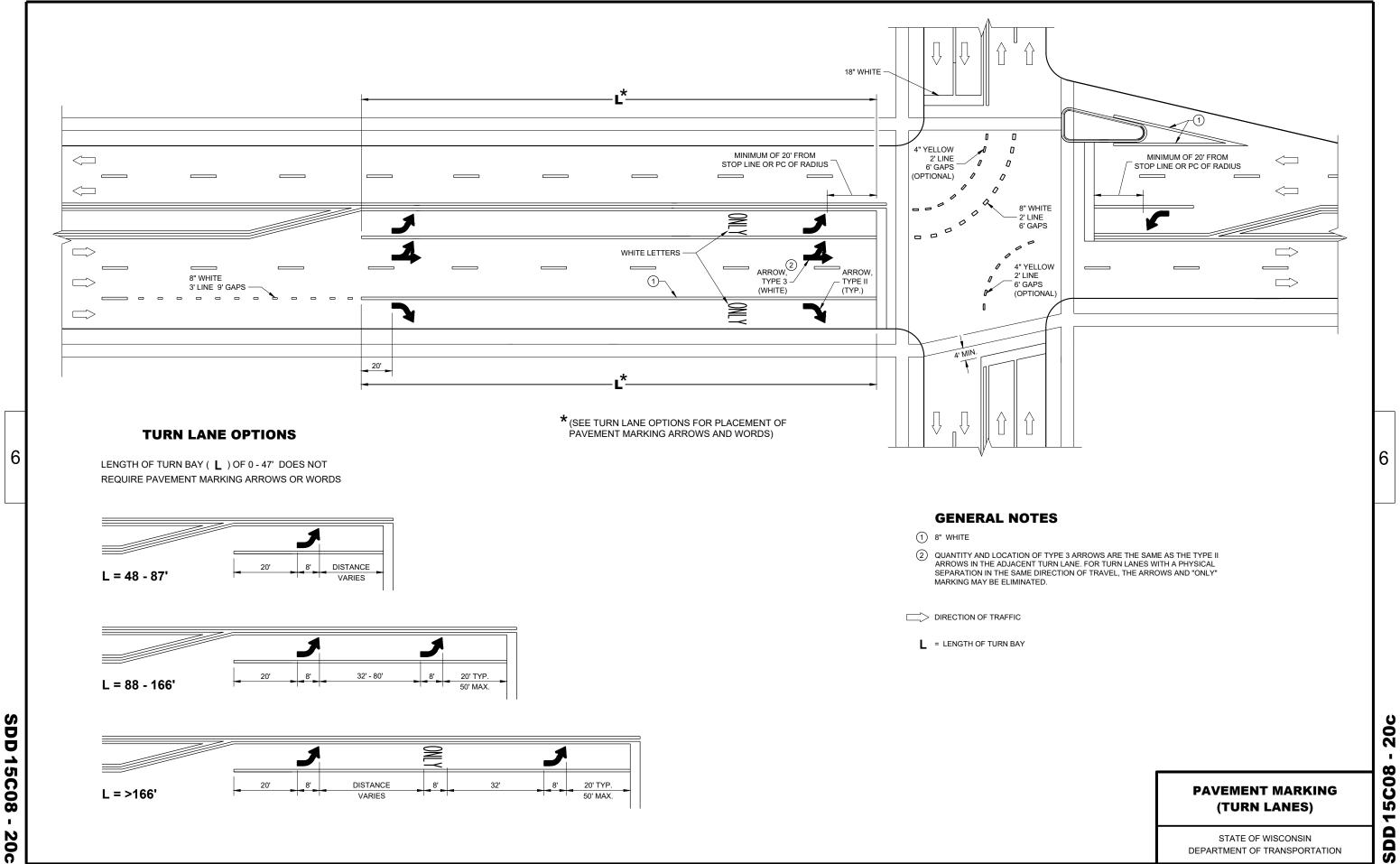


TYPE 7

TYPE 6

SDD





DEPARTMENT OF TRANSPORTATION

RUMBLE

STRIPS

WORK

#### **GENERAL NOTES FLAGGING LEGEND** DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

## TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

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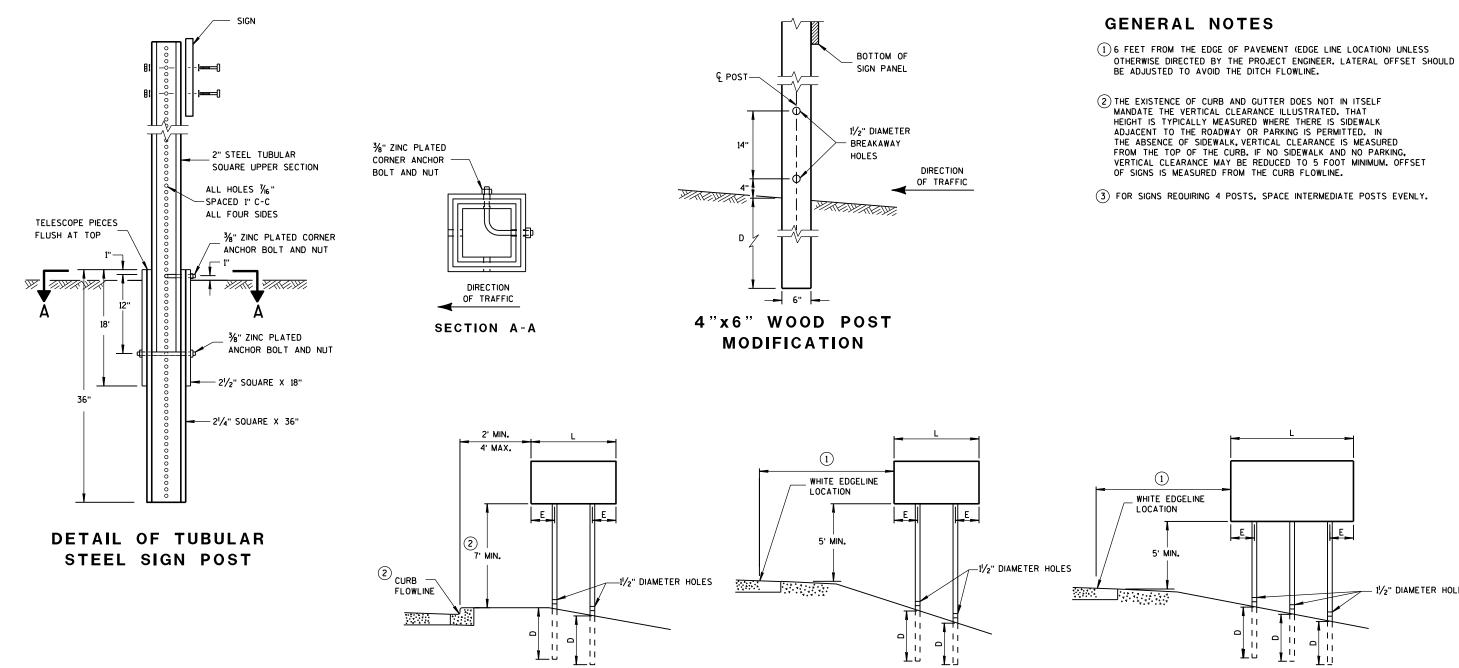
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

## TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

SDD 15C19 - 06a

6



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED

ON TUBULAR STEEL POSTS.

## URBAN AREA

## POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
Ĺ	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

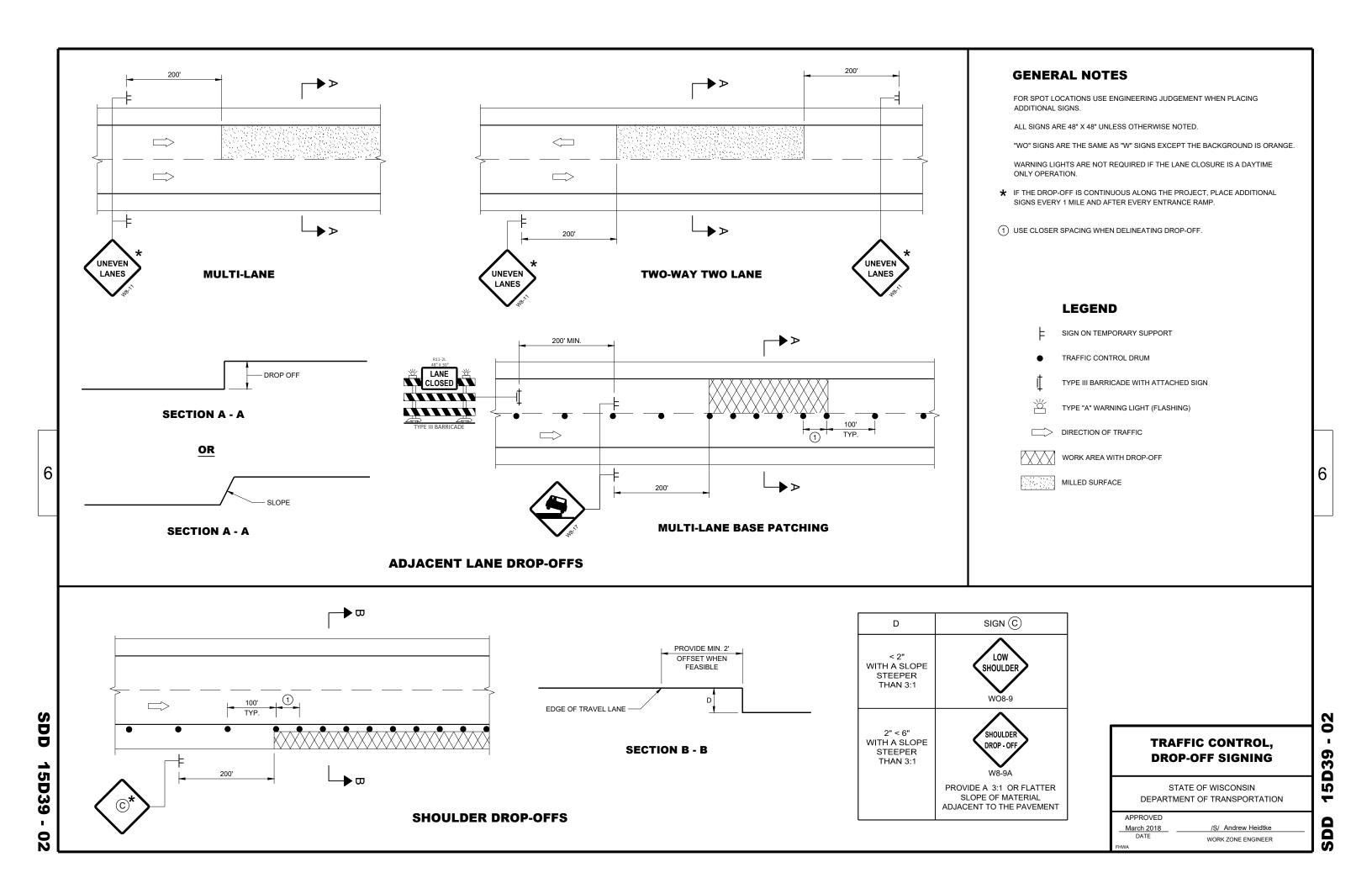
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

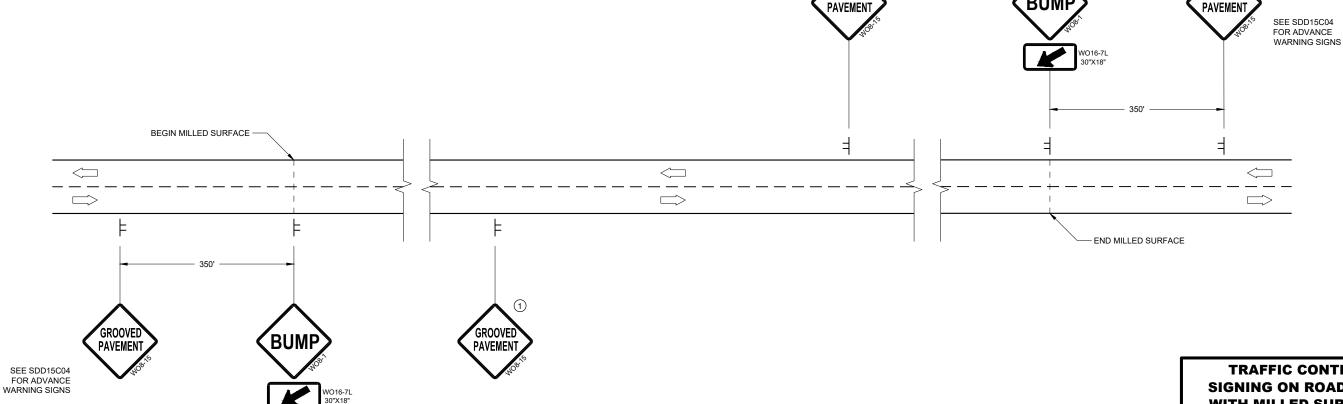
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

DIRECTION OF TRAFFIC



### **DETAIL FOR SIGNING ON MILLED SURFACES**

TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES** 

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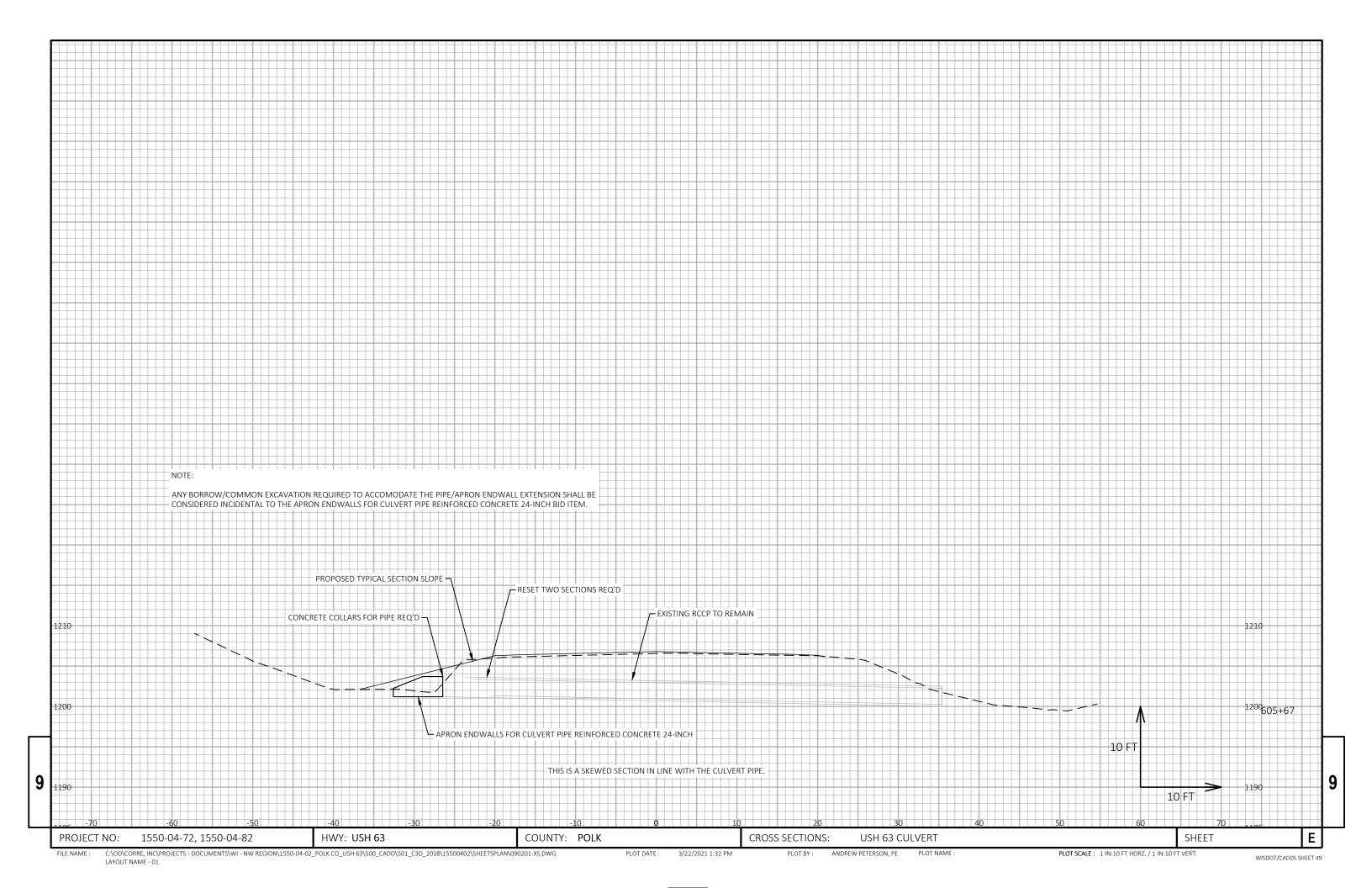
APPROVED February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

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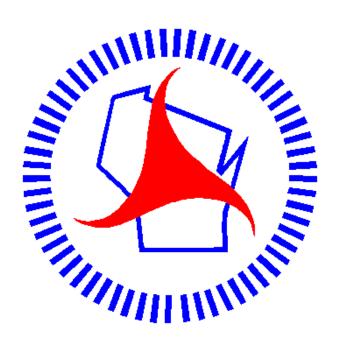
**TYPICAL SIDE ROAD APPROACH SIGN DETAIL** 

**PAVEMENT** 

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Notes



# Wisconsin Department of Transportation

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