MAD FEBRUARY 2025 ORDER OF SHEETS Section No. 0 Section No. 5-00-70 TOTAL SHEETS = 148 DESIGN DESIGNATION 5975-00-01 AADT A.A.D.T. D.H.V. D.D. DESIGN SPEED CONVENTIONAL SYMBOLS CORPORATE LIMITS PROPERTY LINE LOTTINE LIMITED HIGHWAY EASEMENT

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

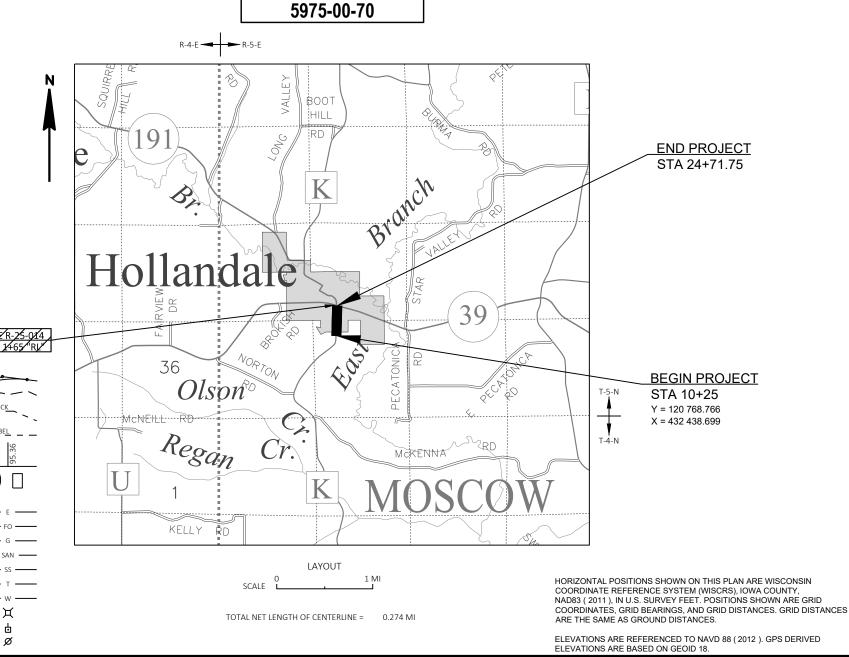
PLAN OF PROPOSED IMPROVEMENT

MOSCOW - HOLLANDALE (CTH K)

NORTON ROAD TO STH 39

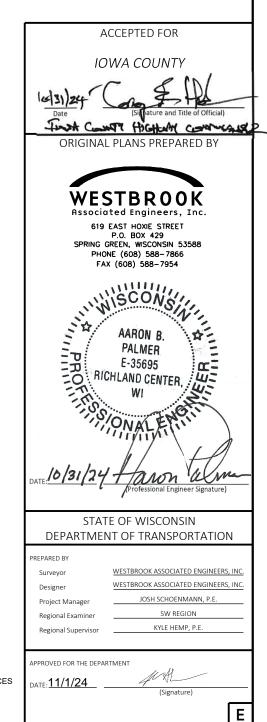
CTH K **IOWA COUNTY**

STATE PROJECT NUMBER



FEDERAL PROJECT STATE PROJECT CONTRACT 5975-00-70 WISC 2025309 1

> WORK TO BE COMPLETED BY OTHERS UNDER FUTURE FUNDED PROJECT.



FILE NAME : G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\010101_TI.DWG

Typical Sections and Details

Estimate of Quantities

Right of Way Plat

Plan and Profile

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

PROJECT LOCATION

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

FIBER OPTIC

SANITARY SEWER

STORM SEWER

TELEPHONE POLE

TELEPHONE

FLECTRIC

GRADE ELEVATION

CULVERT (Profile View)

MARSH OR ROCK PROFILE

(To be noted as such)

2025 = 600

= 650 = 86

> = 62/38 = 7.7%

= 30 MPH

= 110,000

2045

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PROPOSED OR NEW R/W LINE

10/31/2024 10:01 AM

GENERAL NOTES

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL

MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO

LONGER NECESSARY. PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT

NO TREES OR SHRUBS TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

WORK TO BE COMPLETED BY OTHERS UNDER FUTURE FUNDED PROJECT.

COUNTY LIAISON

IOWA COUNT HIGHWAY

1215 BEQUETTE STREET

DODGEVILLE, WI 53533

ATTN: CRAIG HARDY, P.E.

craig.hardy@iowacounty.org

ARUT

Abutment

PH: (608) 574-2935

DEPARTMENT

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET SPRING GREEN, WI 53588

DESIGN CONSULTANT

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 apalmer@westbrookeng.com WisDOT

CONTACTS

WisDOT PROJECT MANAGER 2101 WRIGHT ST MADISON, WI 53704

ATTN: JOSH SCHOENMANN, P.E. PH: (608) 246-3800 josh.schoenmann@dot.wi.gov

WDNR LIAISON

DNR SOUTH CENTRAL REGION **HEADQUARTERS** 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

ATTN: ERIC HEGGELUND PH: (608) 228-7927 eric.heggelund@wisconsin.gov

SLOPES 2.5:1 OR STEEPER REQUIRE EROSION MAT.

BE DETERMINED BY THE ENGINEER IN THE FIELD.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND MULCHED AND/OR EROSION MAT INSTALLED AS DIRECTED BY THE

APPLY SEED, MULCH OR EROSION MAT, AND FERTILIZER TO ALL DISTURBED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A VERTICAL SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

4.5-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING ONE (1) 2.25-INCH UPPER LAYER AND ONE (1) 2.25-INCH LOWER LAYER.

GINCHES OF ASPIALTIC SURFACE SHALL SE CONSTRUCTED USING ONE (1) 2.25-MCH UPPER LAYER AND ONE (1) 3.75-MCH LOWER LAYER. THE PREFERRED UPPER LAYER IS 2.25-INCHES OF 421 58-29 S. THE PREFERRED LOWER LAYER IS 3.75-INCHES OF HMA PAVEMENT 2 LT 58-28 S.

APPLY TACK COAT BETWEEN LAYERS OF HMA PAVEMENT AT A RATE OF 0.05 GAL/SY.

PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR

PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE LOCATION OF STOP LINES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ADJUST DITCH GRADING AS NECESSARY TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ORDER OF SHEETS

GENERAL NOTES TYPICAL SECTIONS CONSTRUCTION DETAILS INTERSECTION DETAILS CURB RAMP DETAILS STORM SEWER PLAN PERMANENT SIGNING AND PAVEMENT MARKING RECTANGULAR RAPID FLASHING BEACON DETAIL DETOUR ROUTE ALIGNMENT DETAILS CONTROL POINT TIES



www.DiggersHotline.com

UTILITIES

ALLIANT ENERGY FLECTRIC MARK MUFNCH 490 SHAKERAG STREET MINERAL POINT, WI 53565 PHONE: (608) 220-0634 EMAIL: markmuench@alliantenergy.com

FRONTIER COMMUNICATIONS COMMUNICATIONS CHRISTOPHER POLLACK 521 N 4TH STREET WAUSAU, WI 54403 PHONE: (715) 847-1240 EMAIL: christopher.pollack@ftr.com ALLIANT ENERGY FIBER OPTIC **BRANDON KLAAS** 655 SULLIVAN DRIVE FOND DU LAC, WI 54935 PHONE: (920) 445-5918 EMAIL: bklaas@mi-tech.us

MOUNT HOREB TELEPHONE COMPANY COMMUNICATIONS JEFFREY INABNIT 200 FAST MAIN STREET MOUNT HOREB, WI 53572 PHONF: (608) 437-0632

EMAIL: Jeffrey.Inabnit@mhtcinc.com

ALLIANT ENERGY GAS BLAKE WEDIG 490 SHAKERAG STREET MINERAL POINT, WI 53565 PHONE: (608) 931-4221 EMAIL: blakewedig@alliantenergy.com

VILLAGE OF HOLLANDALE WATER JERRY DOESCHER 200 5TH AVENUE HOLLANDALE, WI 53544 PHONE: (608) 574-2084 EMAIL: pwhollandale@mhtc.net **BUG TUSSEL WIRELESS** COMMUNICATIONS DUSTIN TEAFF 1262 CHAMBER CT DE PERE, WI 54115 PHONE: (920) 254-3539 EMAIL: Dustin.Teaff@btussel.com

VILLAGE OF HOLLANDALE SANITARY SEWER JERRY DOESCHER 200 5TH AVENUE HOLLANDALE, WI 53544 PHONE: (608) 574-2084 EMAIL: pwhollandale@mhtc.net STANDARD ABBREVIATIONS

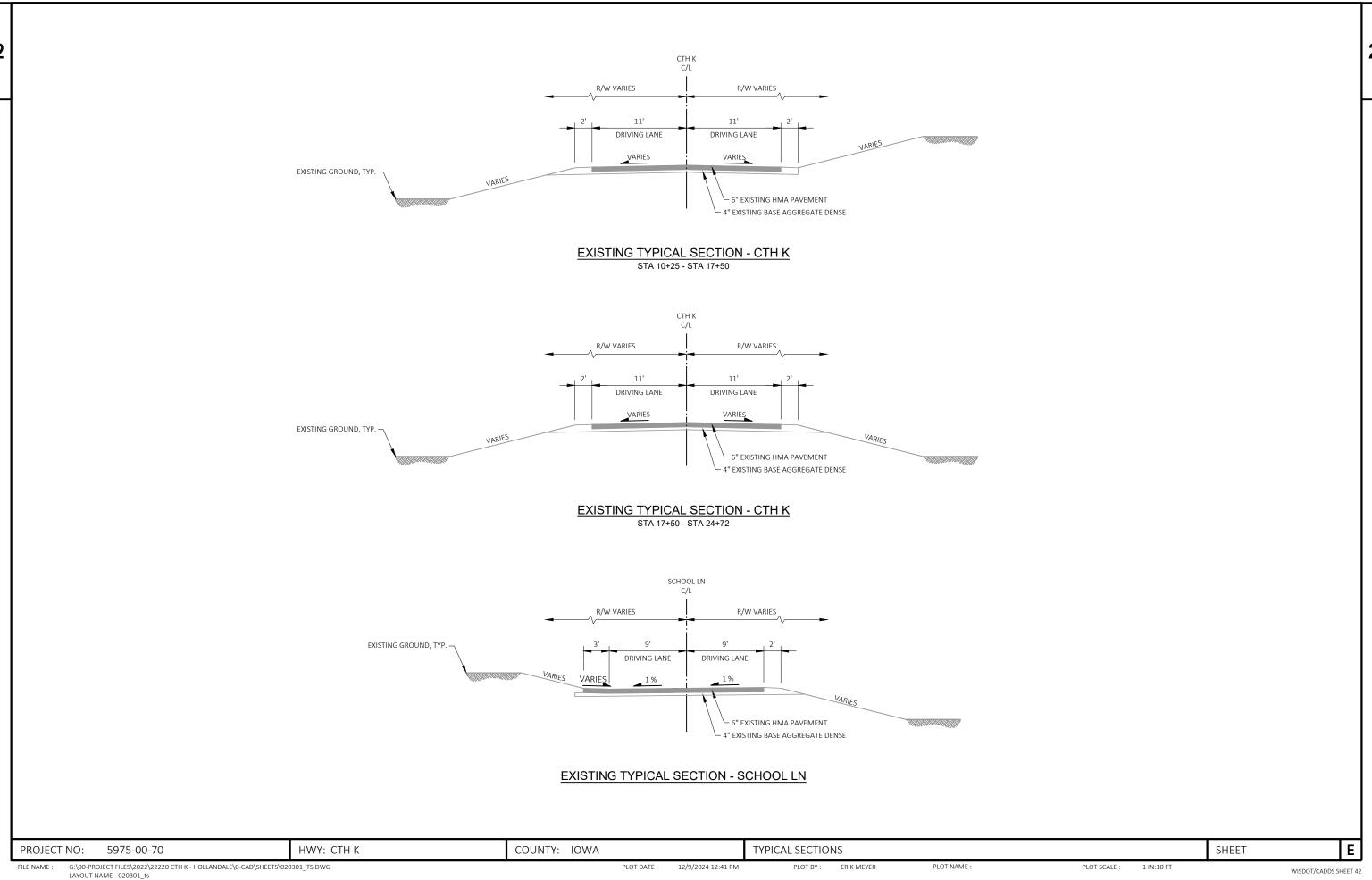
SEC

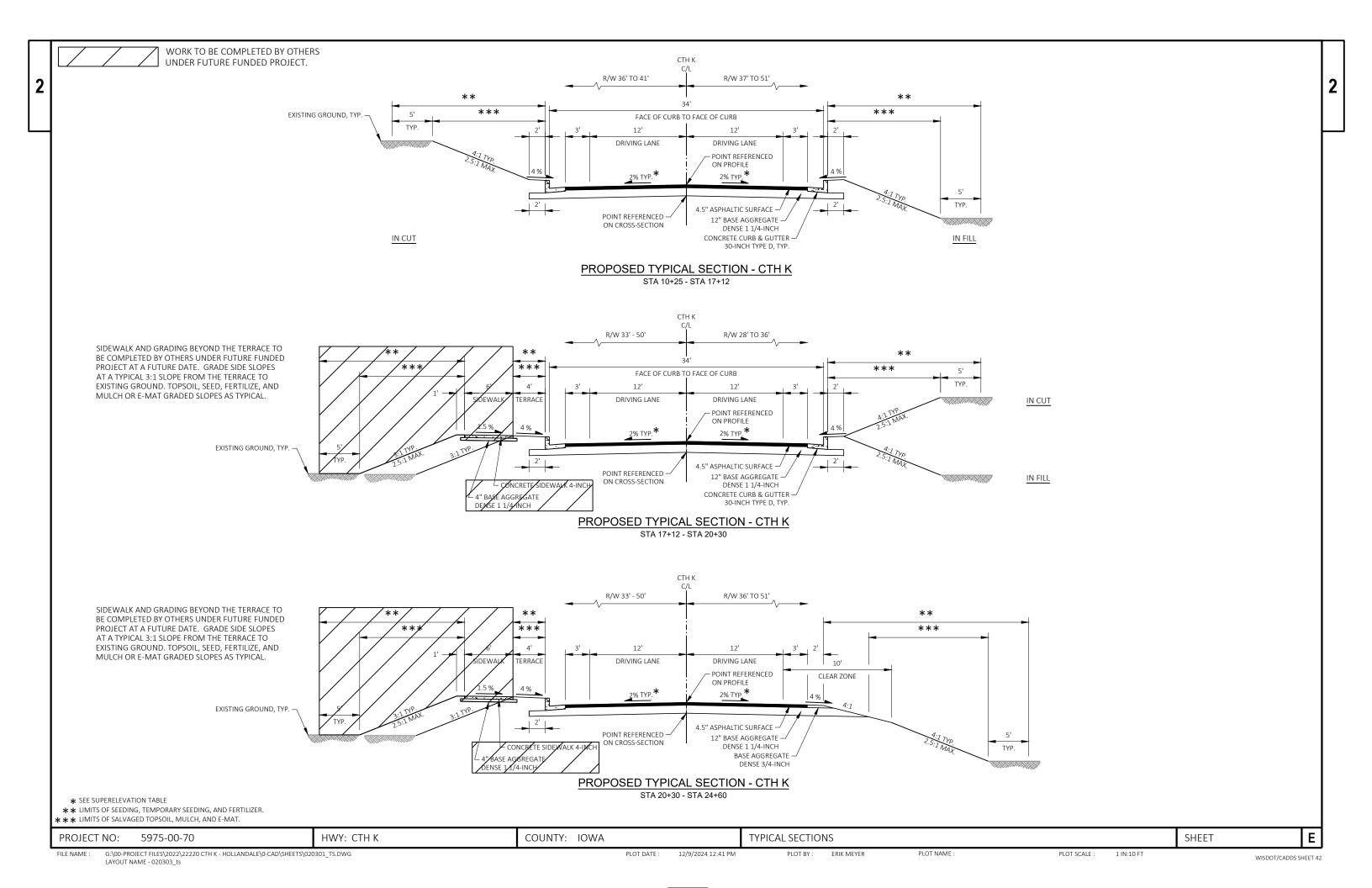
Section

ABUI.	Abutillelit	JI	JUILL	SEC	360000
AC	Acre	JCT	Junction	SHLDR	Shoulder
AGG.	Aggregate	LHF	Left-Hand Forward	SHR	SHRINKAGE
AH	Ahead	L	Length of Curve	SW	Sidewalk
<	Angle	LIN FT OR LF	Linear Foot	S	South
ASPH	Asphaltic	LC	Long Chord of Curve	SQ	Square
AVG.	Average	MH	Manhole	SF OR SQ FT	Square Feet
A.D.T	Average Daily Traffic	MB	Mailbox	SY or SQ YD	Square Yard
BAD	Base Aggregate Dense	ML OR M/L	Match Line	STD	Standard
BK	Back	N	North	SDD	Standard Detail Drawings
BF	Back Face	Υ	North Grid Coordinate	STH	State Trunk Highway
B.M.	Bench Mark	OD	Outside Diameter	STA	Station
BR.	Bridge	PLE	Permanent Limited Easement	SS	Storm Sewer
C/L	Center Line	PT	Point	SG	Subgrade
CC	Center to Center	PC	Point of Curvature	SE	Superelevation
CTH	County Trunk Highway	PI	Point of Intersection	SL or S/L	Survey Line
CR.	Creek	PRC	Point of Reverse Curvature	SV	Septic Vent
CY or CU YD	Cubic Yard	PT	Point of Tangency	T	Tangent
CP	Culvert Pipe	POC	Point on Curve	TEL	Telephone
C & G	Curb and Gutter	PVC	Polyvinyl Chloride	TEMP	Temporary
D	Degree of Curve	PCC	Portland Cement Concrete	TI	Temporary Interest
DHV	Design Hour Volume	LB	Pound	t	Ton
DIA	Diameter	PSI	Pounds Per Square Inch	T or TN	Town
E	East	PE	Private Entrance	TRANS	Transition
X	East Grid Coordinate	R	Radius	TL OR T/L	Transit Line
ELEC	Electric	RR	Railroad	T	Trucks (percent of)
EL OR ELEV	Elevation	RL OR R/L	Reference Line	TYP	Typical
ESALS	Equivalent Single Axle Loads	RP	Reference Point	UNCL	Unclassified
EBS	Excavation Below Subgrade	RCCP	Reinforced Concrete Culvert Pipe	UG	Underground Cable
FF	Face to Face	REQD	Required	USH	United States Highway
FE	Field Entrance	RES	Residence or Residential	VAR	Variable
F	Fill	RW	Retaining Wall	V	Velocity or Design Speed
FG	Finished Grade	RT	Right	VERT	Vertical
FL or F/L	Flow Line	RHF	Right-Hand Forward	VC	Vertical Curve
FT	Foot	R/W	Right-of-Way	VOL	Volume
FTG	Footing	R	River	WM	Water Main
GN	Grid North	RD	Road	WV	Water Valve
HT	Height	RDWY	Roadway	W	West
CWT	Hundredweight	SALV	Salvaged	WB	Westbound
HYD	Hydrant	SAN S	Sanitary Sewer	YD	Yard
INL	Inlet	ID	Inside Diameter	INV	Invert
IP	Iron Pipe or Pin	IRS	Iron Rod Set		

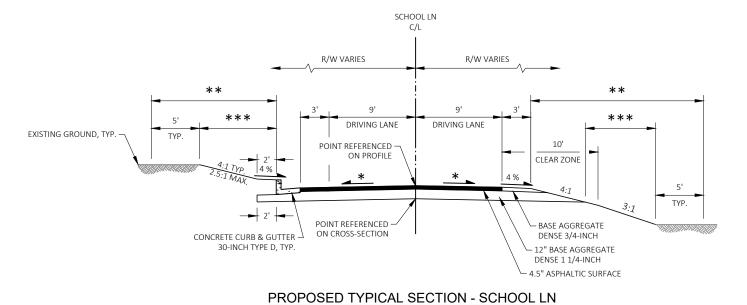
PROJECT NO: 5975-00-70 HWY: CTH K COUNTY: IOWA **GENERAL NOTES SHEET** Ε G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\020101 GN.DWG PLOT DATE: 12/9/2024 1:19 PM PLOT BY: ERIK MEYER PLOT NAME PLOT SCALE : 1 IN:100 FT FILE NAME :

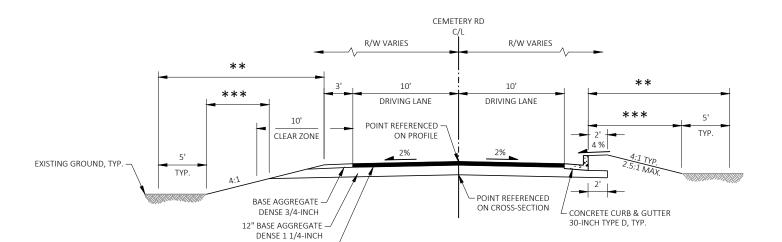
LAYOUT NAME - 020101_gn











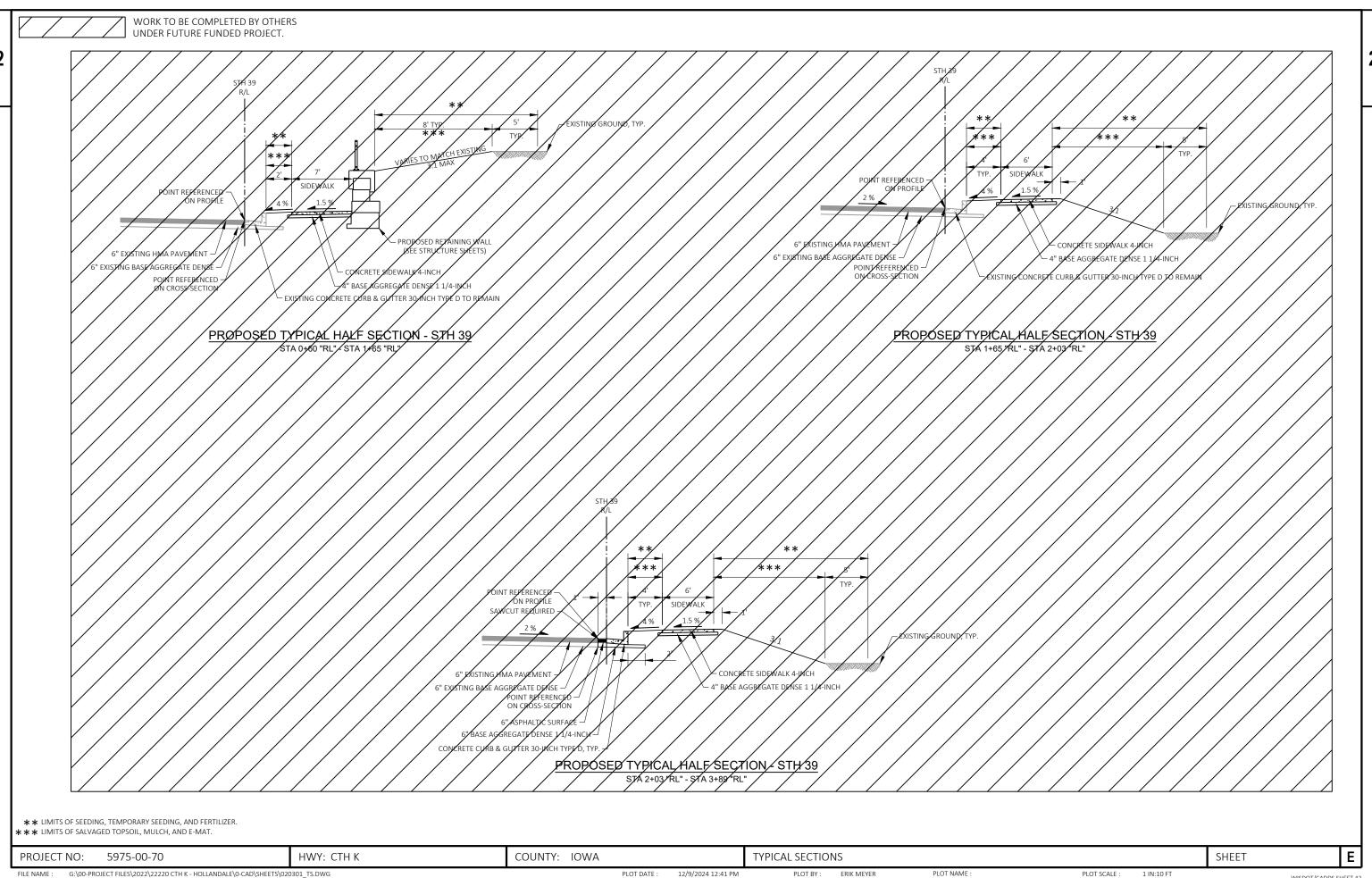
4.5" ASPHALTIC SURFACE —

PROPOSED TYPICAL SECTION - CEMETERY RD

- * SEE SUPERELEVATION TABLE
- ** LIMITS OF SEEDING, TEMPORARY SEEDING, AND FERTILIZER.

 *** LIMITS OF SALVAGED TOPSOIL, MULCH, AND E-MAT.

TYPICAL SECTIONS Ε PROJECT NO: 5975-00-70 HWY: CTH K COUNTY: IOWA SHEET G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\020301_TS.DWG LAYOUT NAME - 020304_ts FILE NAME : PLOT DATE : PLOT BY: ERIK MEYER PLOT NAME : PLOT SCALE : 1 IN:10 FT 12/9/2024 12:41 PM



LAYOUT NAME - 020305_ts

SUPERELEVATION TABLE: STA. 12+38.67 TO 15+61.12											
STATION	REMARK	UNPAVED SHOULDER	PAVED SHOULDER	LANE	LANE	PAVED SHOULDER	UNPAVED SHOULDER				
12+38.67	NORMAL CROWN	-4.0%	-2.0%	-2.0%	-2.0%	-2.0%	-4.0%				
12+75.19	LEVEL CROWN	0.0%	0.0%	0.0%	-2.0%	-2.0%	-4.0%				
13+11.72	REVERSE CROWN	2.0%	2.0%	2.0%	-2.0%	-2.0%	-4.0%				
13+17.19	BEGIN FULL SUPER	2.3%	2.3%	2.3%	-2.3%	-2.3%	-4.0%				
14+82.59	END FULL SUPER	2.3%	2.3%	2.3%	-2.3%	-2.3%	-4.0%				
14+88.07	REVERSE CROWN	2.0%	2.0%	2.0%	-2.0%	-2.0%	-4.0%				
15+24.59	LEVEL CROWN	0.0%	0.0%	0.0%	-2.0%	-2.0%	-4.0%				
15+61.12	NORMAL CROWN	-4.0%	-2.0%	-2.0%	-2.0%	-2.0%	-4.0%				

SUPERELEVATION TABLE: 15+65.26 TO 19+42.56										
STATION	REMARK	UNPAVED SHOULDER	PAVED SHOULDER	LANE	LANE	PAVED SHOULDER	UNPAVED SHOULDER			
15+65.26	NORMAL CROWN	-4.0%	-2.0%	-2.0%	-2.0%	-2.0%	-4.0%			
16+01.26	LEVEL CROWN	-4.0%	-2.0%	-2.0%	0.0%	0.0%	0.0%			
16+37.26	BEGIN FULL SUPER	-4.0%	-2.0%	-2.0%	2.0%	2.0%	2.0%			
18+70.56	END FULL SUPER	-4.0%	-2.0%	-2.0%	2.0%	2.0%	2.0%			
19+06.56	LEVEL CROWN	-4.0%	-2.0%	-2.0%	0.0%	0.0%	0.0%			
19+42.56	NORMAL CROWN	-4.0%	-2.0%	-2.0%	-2.0%	-2.0%	-4.0%			

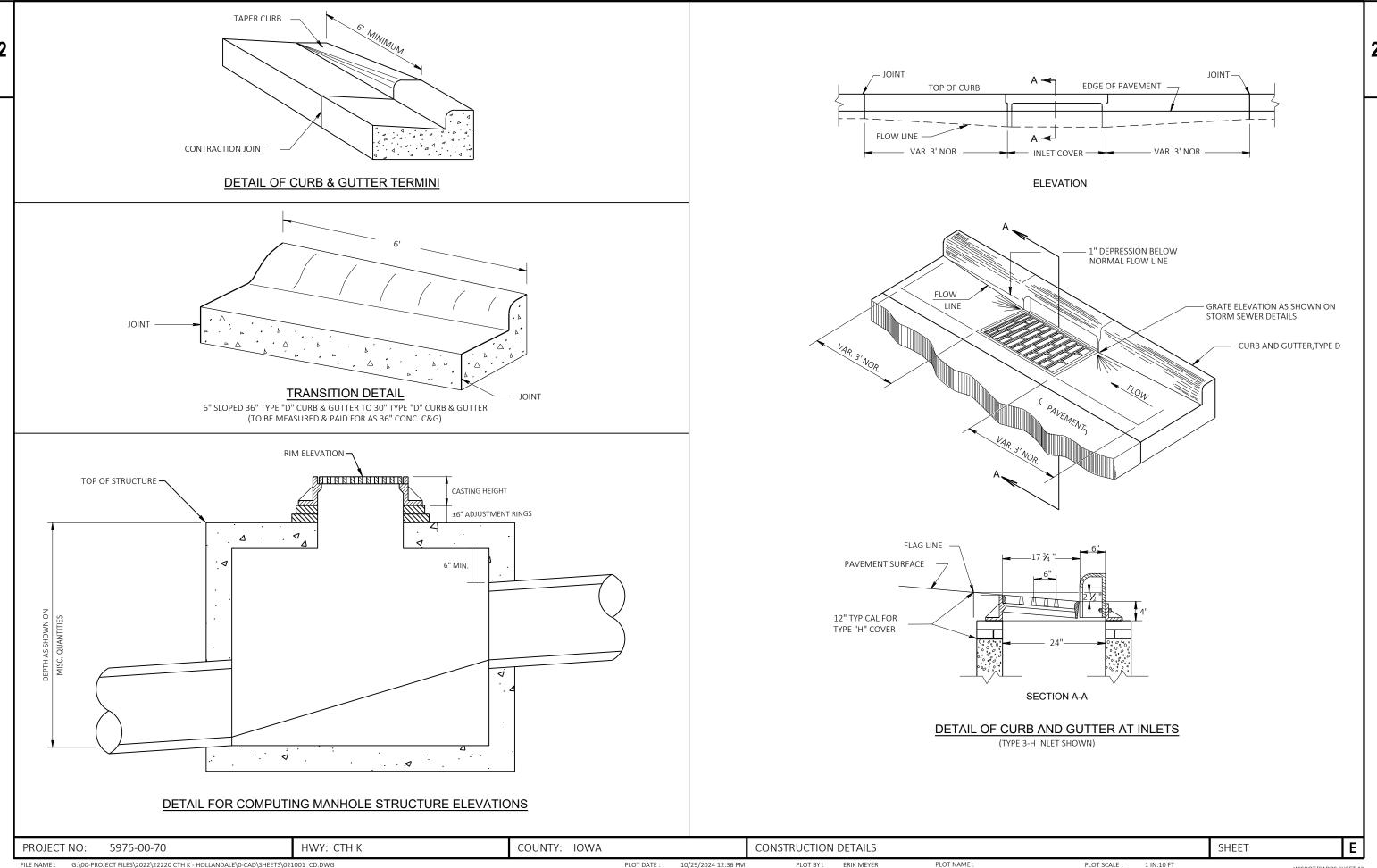
SUPERELEVATION TABLE: STA. 21+08.86 TO 24+24.61										
STATION	REMARK	UNPAVED SHOULDER	PAVED SHOULDER	LANE	LANE	PAVED SHOULDER	UNPAVED SHOULDER			
21+08.86	NORMAL CROWN	-4.0%	-2.0%	-2.0%	-2.0%	-2.0%	-4.0%			
21+45.53	LEVEL CROWN	0.0%	0.0%	0.0%	-2.0%	-2.0%	-4.0%			
21+82.20	REVERSE CROWN	2.0%	2.0%	2.0%	-2.0%	-2.0%	-4.0%			
21+89.53	BEGIN FULL SUPER	2.4%	2.4%	2.4%	-2.4%	-2.4%	-4.0%			
23+43.94	END FULL SUPER	2.4%	2.4%	2.4%	-2.4%	-2.4%	-4.0%			
23+51.27	REVERSE CROWN	2.0%	2.0%	2.0%	-2.0%	-2.0%	-4.0%			
23+87.94	LEVEL CROWN	0.0%	0.0%	0.0%	-2.0%	-2.0%	-4.0%			
24+24.61	NORMAL CROWN	-4.0%	-2.0%	-2.0%	-2.0%	-2.0%	-4.0%			

SUPERELEVATION TABLE: 60+55 "SL" TO 61+05 "SL"									
STATION	REMARK	PAVED SHOULDER	LANE	LANE	UNPAVED SHOULDER				
60+55	MATCH EXISTING	6.0%	-1.0%	1.0%	-4.0%				
60+65	BEGIN CURB & GUTTER	-1.2%	-1.2%	0.0%	-4.0%				
60+75		-1.4%	-1.4%	-0.2%	-4.0%				
61+00		-2.0%	-2.0%	-1.7%	-4.0%				
61+05	NORMAL CROWN	-2.0%	-2.0%	-2.0%	-2.0%				

E

WISDOT/CADDS SHEET 42

COUNTY: IOWA SHEET PROJECT NO: 5975-00-70 HWY: CTH K TYPICAL SECTIONS PLOT DATE : 12/9/2024 12:41 PM PLOT BY: ERIK MEYER PLOT NAME : PLOT SCALE: 1 IN:10 FT



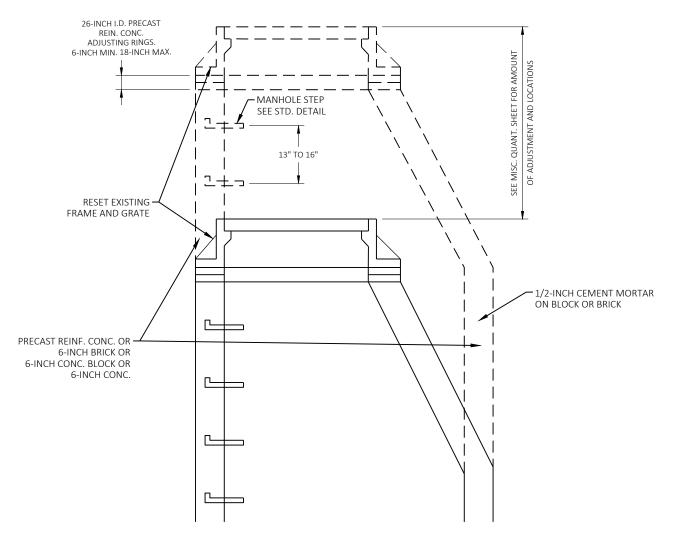
NAME: G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\021001_CD.DWG

PLOT DATE: 10/29/2024 12:36 PM
PLOT BY: ERIK MEYER
PLOT NAME:

LAYOUT NAME - 021001_cd

WISDOT/CADDS SHEET 42

FILE NAME :



DETAIL FOR RECONSTRUCTING MANHOLES

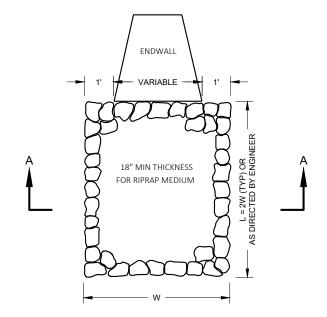
NOTES FOR RECONSTRUCTING MANHOLES

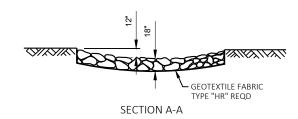
- 1. SEE MISCELLANEOUS QUANTITY SHEET FOR ADJUSTMENT DEPTH.
- CONSTRUCTION METHODS ARE "TYPICAL" AND MAY APPLY TO EITHER RECONSTRUCTING OR ADJUSTING MANHOLES.
- 3. ADJUST FRAME TO GRATE WITH PRECAST CONCRETE RINGS OF VARIABLE THICKNESS.

 MAXIMUM RING HEIGHT IS 18-INCHES. MINIMUM RING HEIGHT IS 6-INCHES. CONCRETE
 RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE
 NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP.

CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS. JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS FOR SANITARY MANHOLES.

4. WHEN RESETTING EXISTING COVERS, REPAIRING BRICKWORK UP TO 12-INCH DEPTH IS PAID AS ADJUSTING COVERS, UNLESS THERE IS A RECONSTRUCT. WHERE NEW COVERS ARE PLACED, THE FIRST 6-INCHES OF ADJUSTMENT OR REPAIR IS PART OF THE NEW COVER. ADJUSTING OR REPAIRING GREATER THAN 6-INCH AND UP TO 12-INCHES SHALL BE PAID AS ADJUSTING COVERS. WHEN THE DEPTH OF THE WORK IS GREATER THAN 12-INCHES, ALL WORK SHALL BE PAID AS RECONSTRUCT.





RIPRAP MEDIUM TREATMENT AT CULVERTS

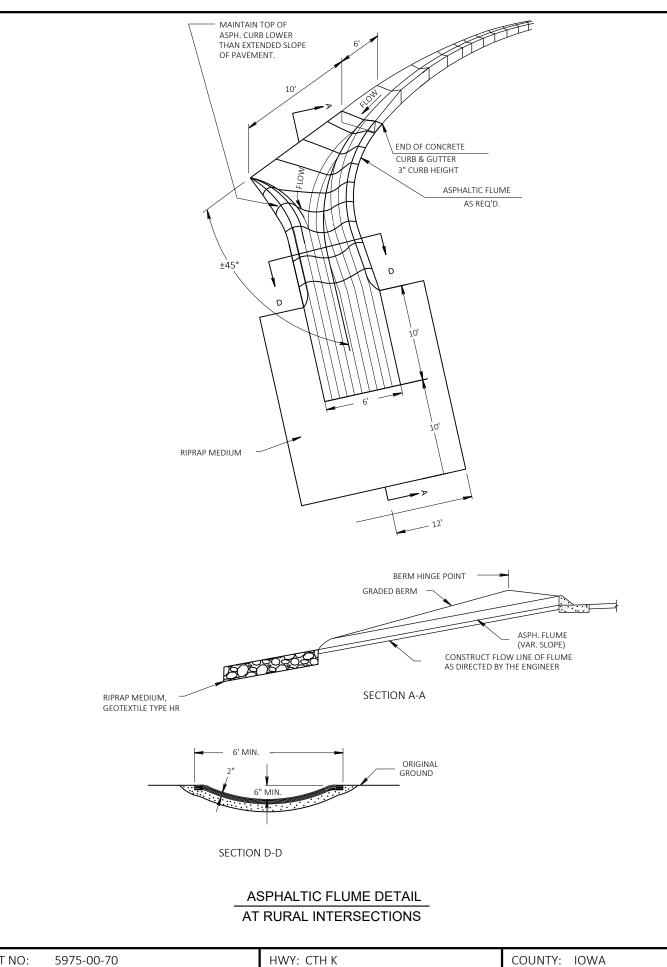
PROJECT NO: 5975-00-70 HWY: CTH K COUNTY: IOWA CONSTRUCTION DETAILS SHEET **E**

G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\021001_CD.DWG

PLOT DATE: 10/29/2024 12:36 PM
PLOT BY: ERIK MEYER
PLOT NAME: PLOT NAME: 1 IN:10 FT
WISDOT/CADDS SHEET 42

WISDOT/CADDS SHEET 42





RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A		A		В		С			D		
	SLOPE	ERANGE	(PERCENT)	SL	SLOPE RANGE (PERCENT)		SLC	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		(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 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:	1			•		•	•			•		•
ASPHALT						.7095						
CONCRETE						.8095						
BRICK	ICK .7080											
DRIVES, WALKS	DRIVES, WALKS .7585											
ROOFS	ROOFS .7595											
GRAVEL ROADS, SHC	ULDERS		·			.4060	·	·			·	

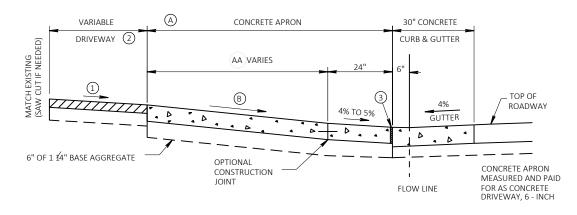
TOTAL PROJECT AREA = _____2.92___ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____2.66___ACRES

PROJECT NO: Ε 5975-00-70 HWY: CTH K CONSTRUCTION DETAILS SHEET G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\021001_CD.DWG LAYOUT NAME - 021003_cd PLOT DATE : PLOT BY: ERIK MEYER PLOT NAME : PLOT SCALE : 1 IN:10 FT FILE NAME : 10/29/2024 12:36 PM

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

PLAN

16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE AA AND(B)AS SHOWN ON CROSS SECTIONS.

SECTION Z - Z

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

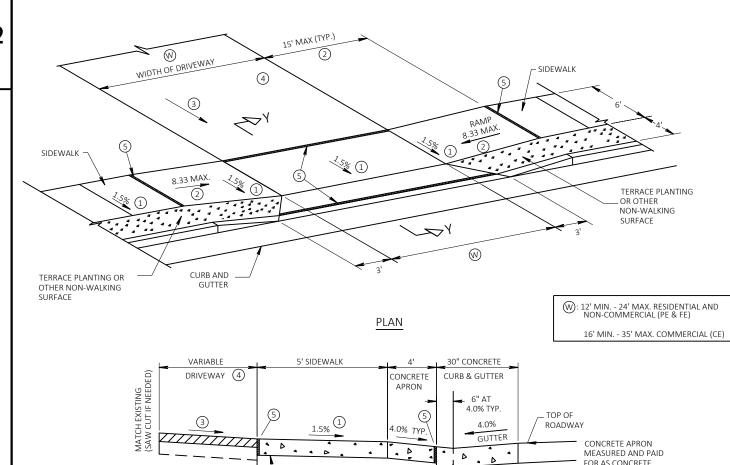
W IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS AND PERCENT GRADS ARE SHOWN ON THE CROSS SECTIONS

- 1 DRIVEWAY SLOPES: DESIRABLE MAXIMUM 10.5% UP AWAY FROM SIDEWALK (SAG)
 - 8.5% DOWN AWAY FROM SIDEWALK (CREST)
 - ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
- - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH - 2-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
 - 6-INCH BASE AGGREGATE DENSE 3/4-INCH
- (3) 1/2-INCH EXPANSION JOINT FILLER.

DRIVEWAY DETAIL WITH CONCRETE APRON

Ε



NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS

FLOW LINE

SECTION Y - Y

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

W IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS AND PERCENT GRADS ARE SHOWN ON THE CROSS SECTIONS.

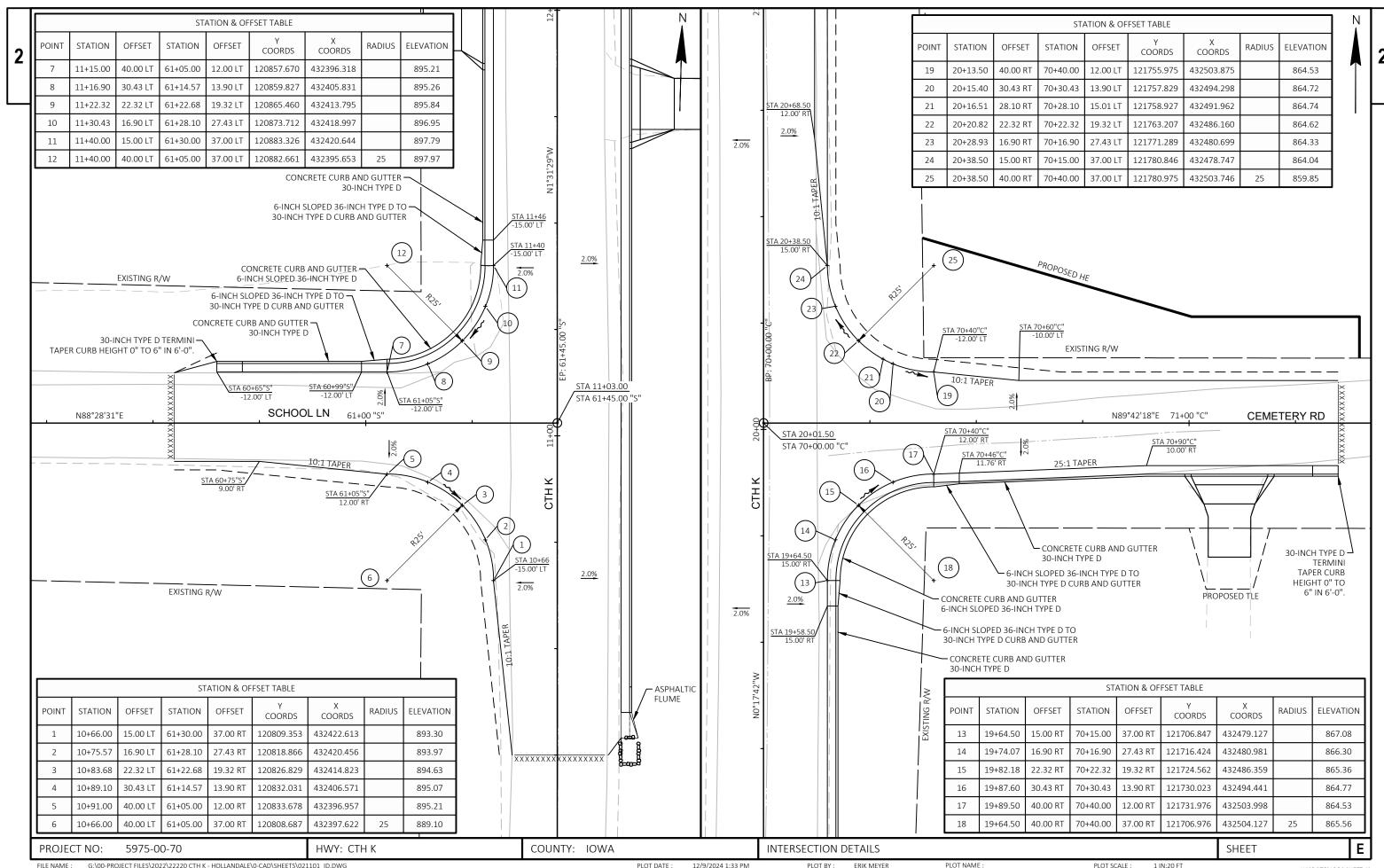
- (1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- 2 THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO ACOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.
- 3 DRIVEWAY SLOPES: DESIRABLE MAXIMUM
 - 10 5% LIP AWAY FROM SIDEWALK (SAG)
 - 8.5% DOWN AWAY FROM SIDEWALK (CREST) ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

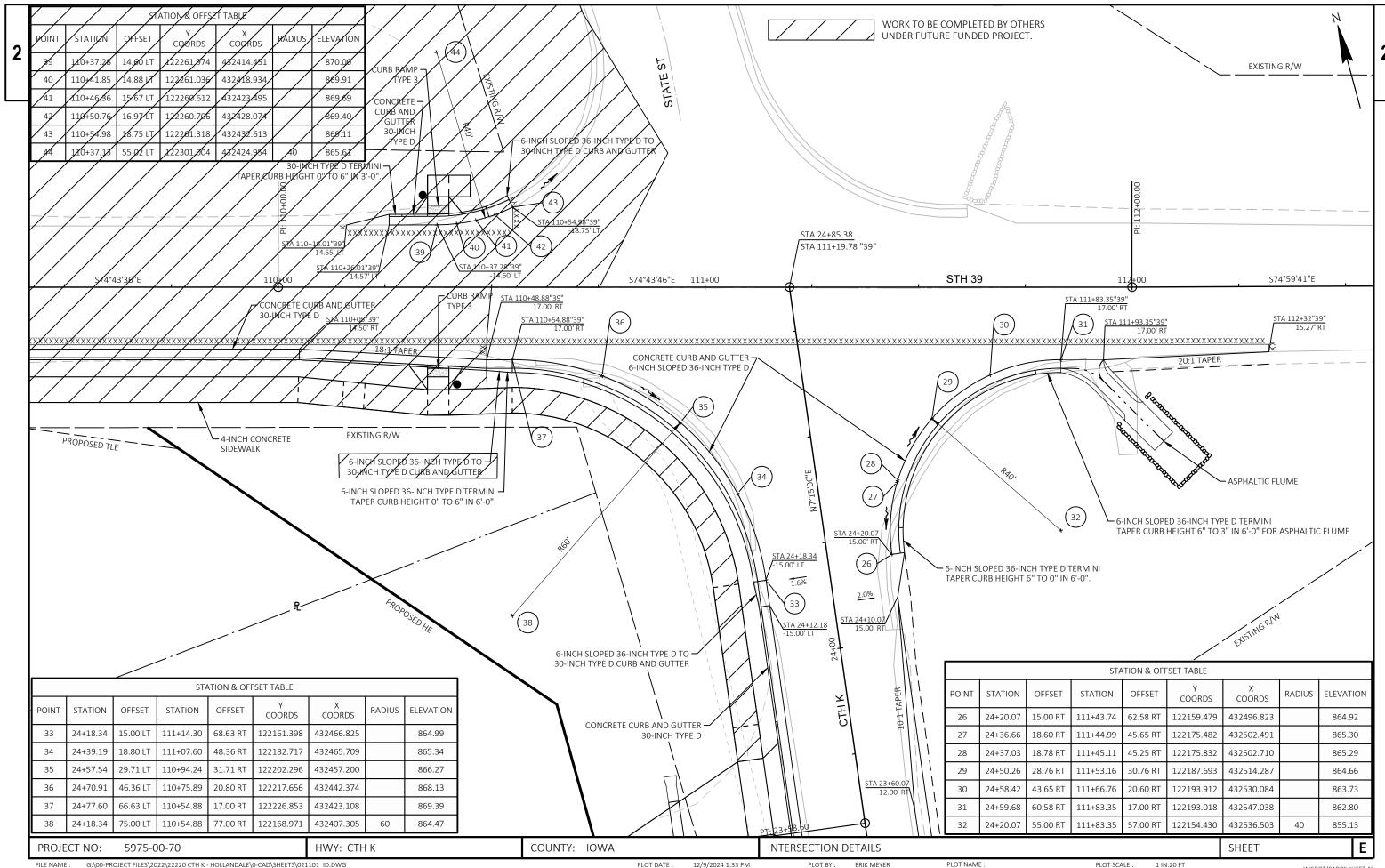
6" OF 1 14" BASE AGGREGATE

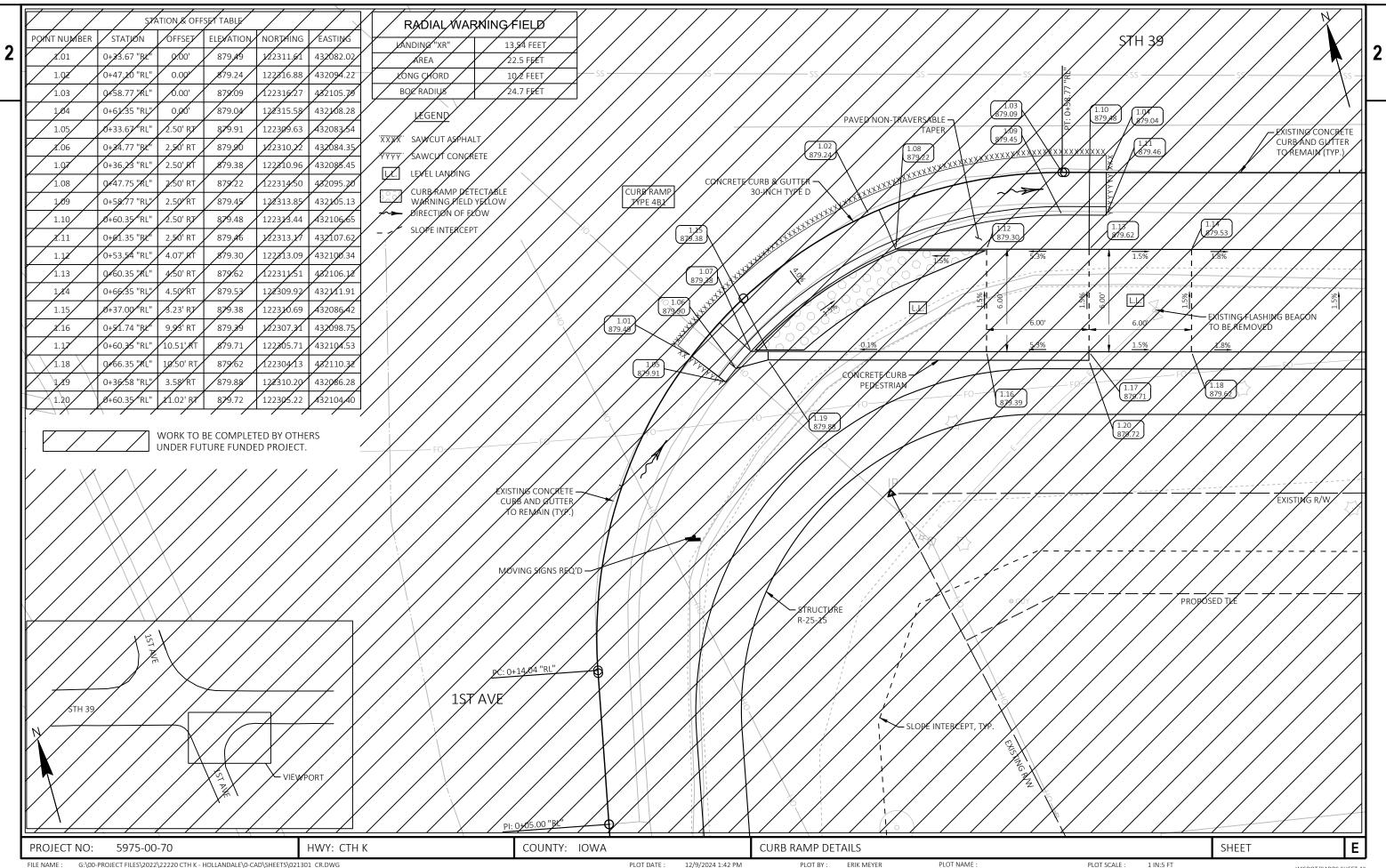
- (4) DRIVEWAY TYPES
 - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
 - 2-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
 - 6-INCH BASE AGGREGATE DENSE 3/4-INCH
- (5) 1/2-INCH EXPANSION JOINT FILLER.

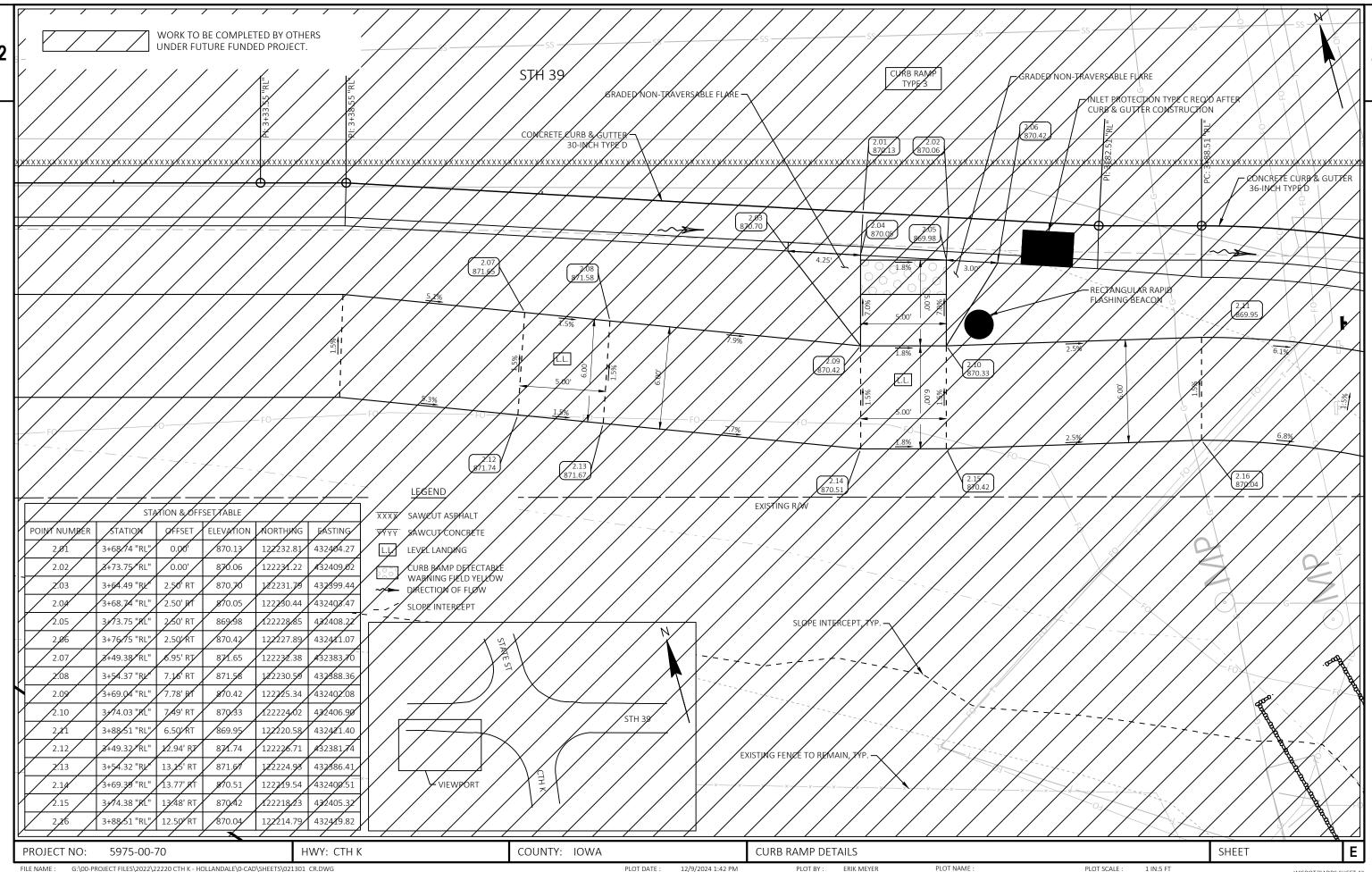
DRIVEWAY DETAIL WITH SIDEWALK

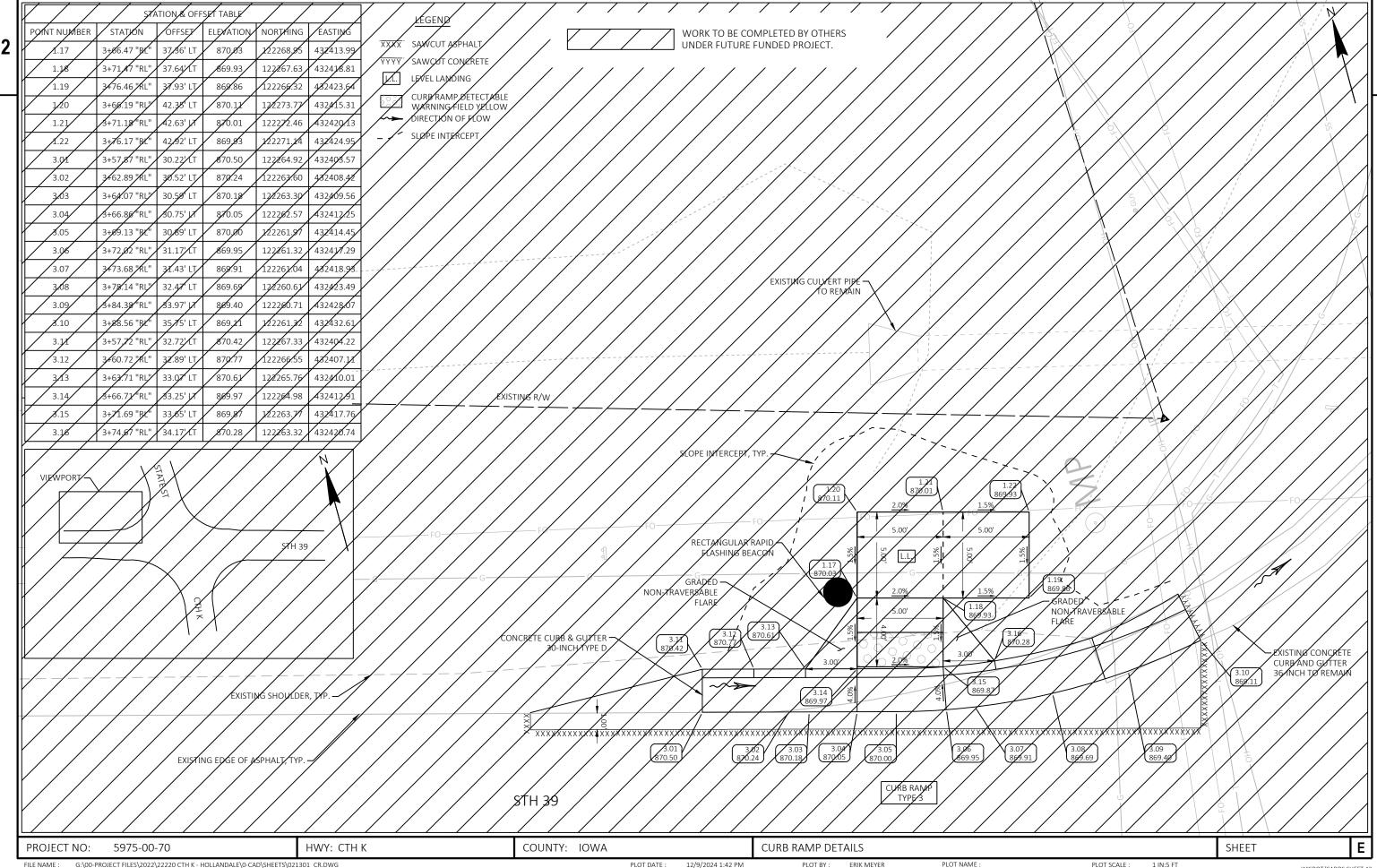
PROJECT NO: 5975-00-70 HWY: CTH K COUNTY: IOWA **CONSTRUCTION DETAILS** SHEET G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\021001_CD.DWG ERIK MEYER PLOT NAME FILE NAME PLOT DATE: 10/29/2024 12:36 PM PLOT BY: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 021004_cd











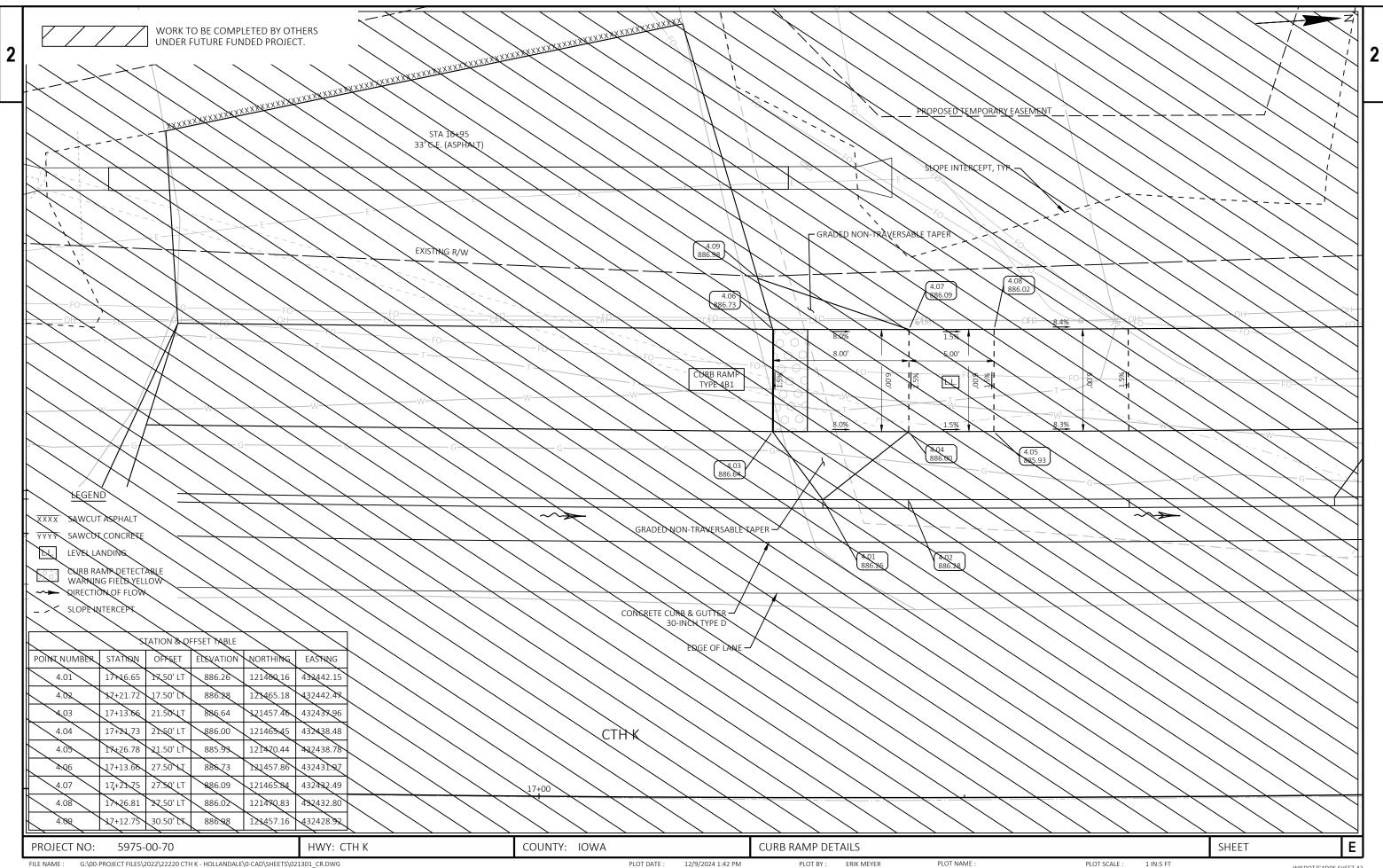
LAYOUT NAME - 021303_cr

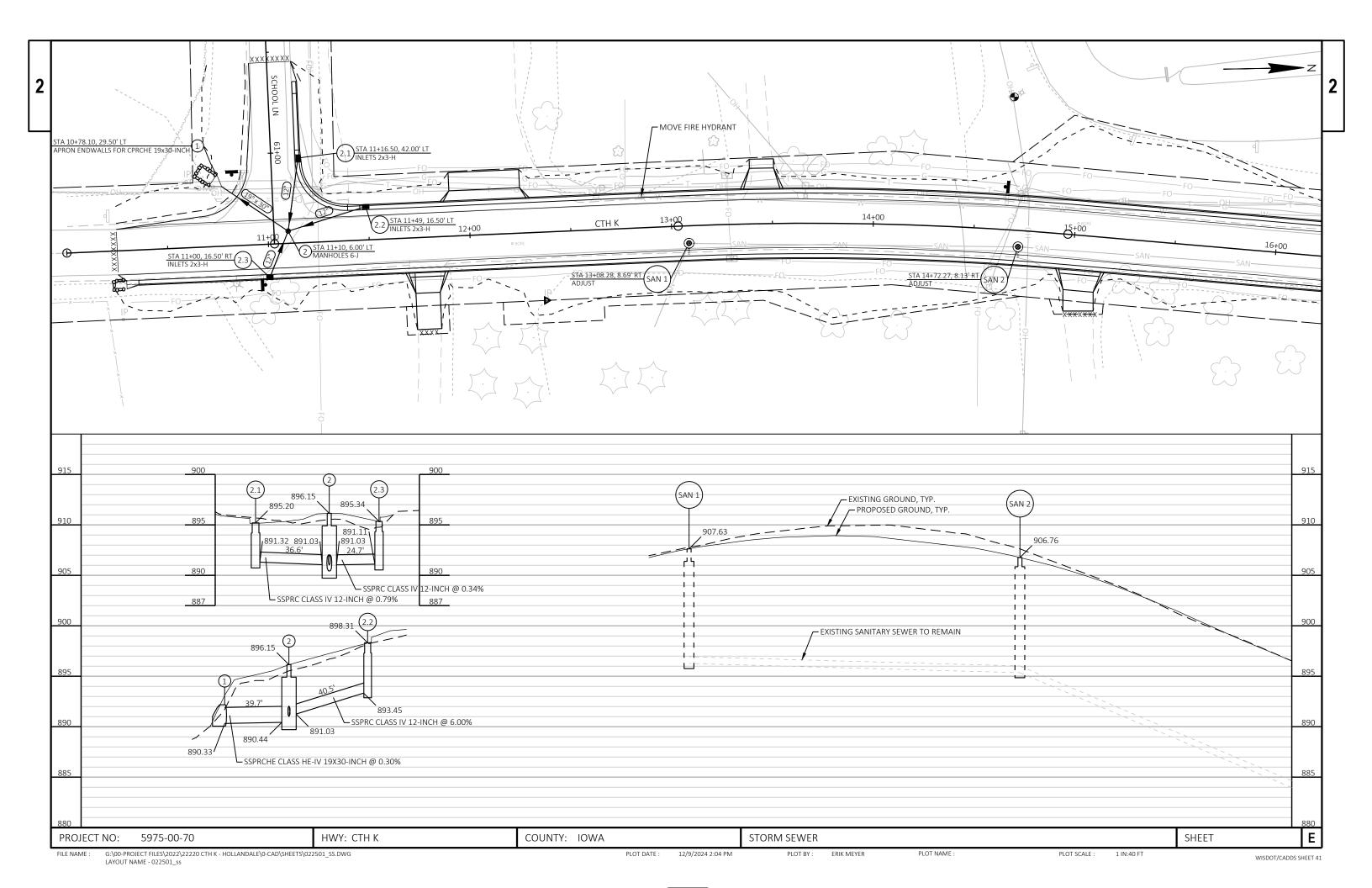
PLOT DATE:

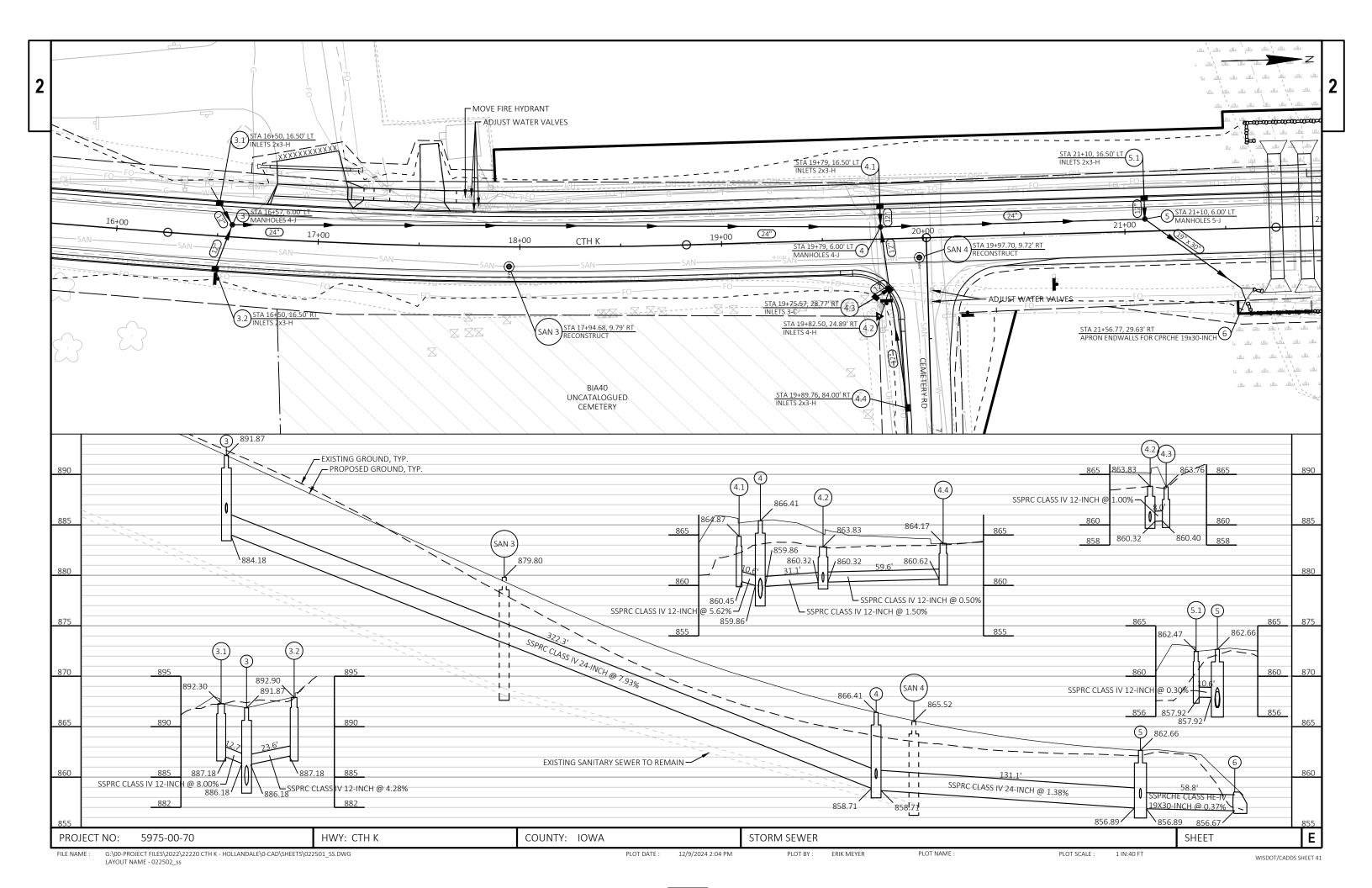
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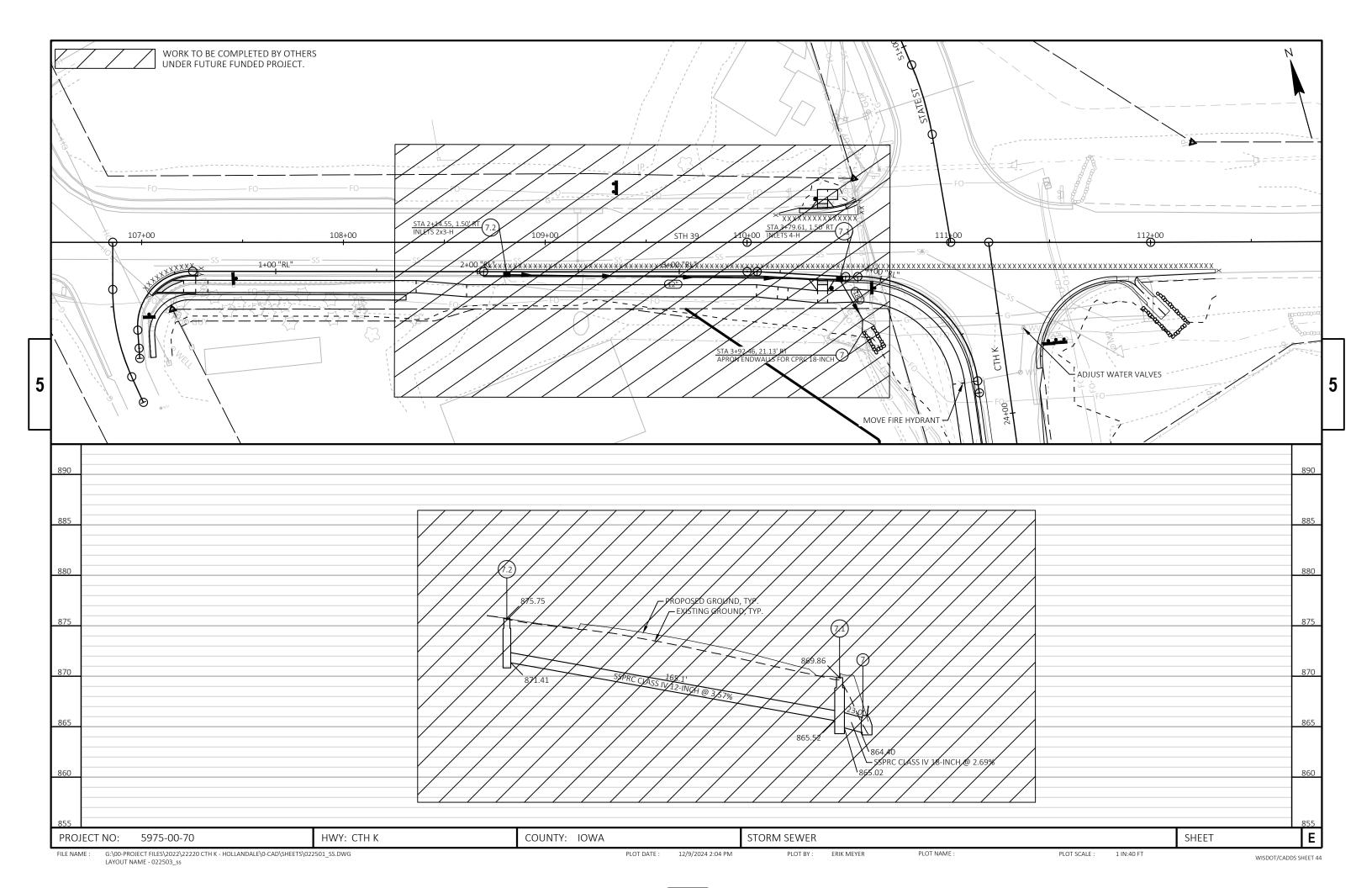
PLOT NAME

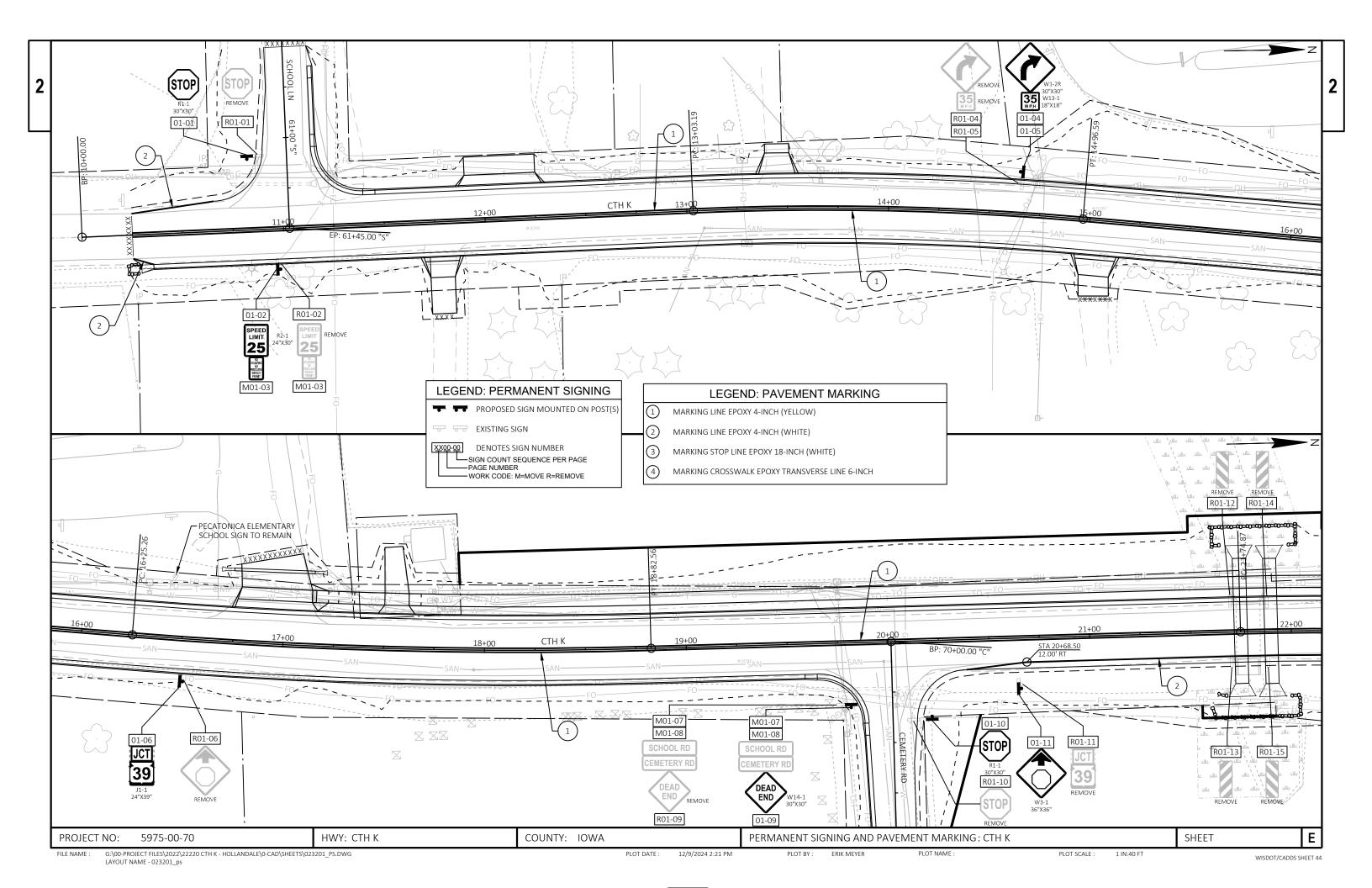
PLOT SCALE: 1 IN:5 FT

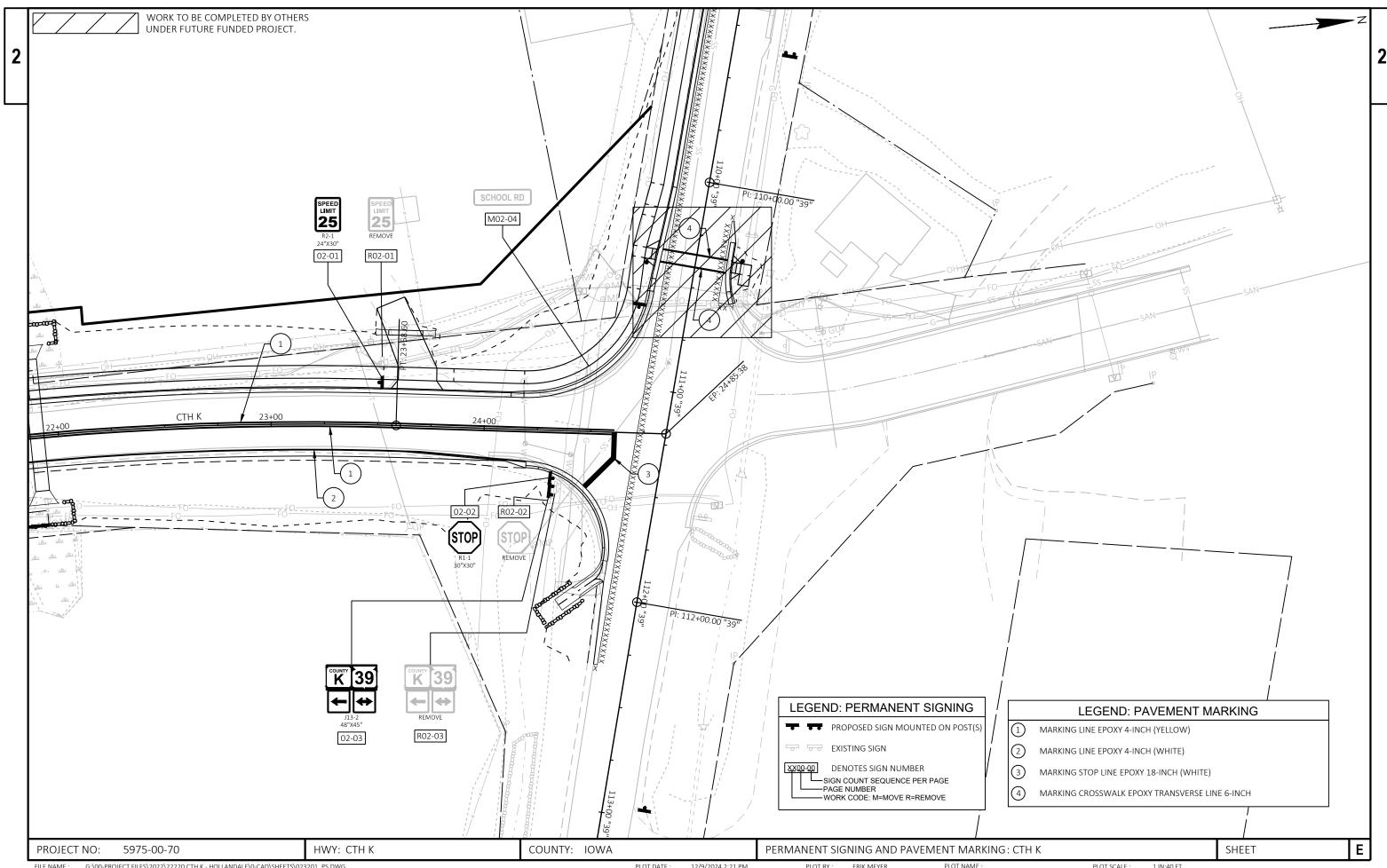




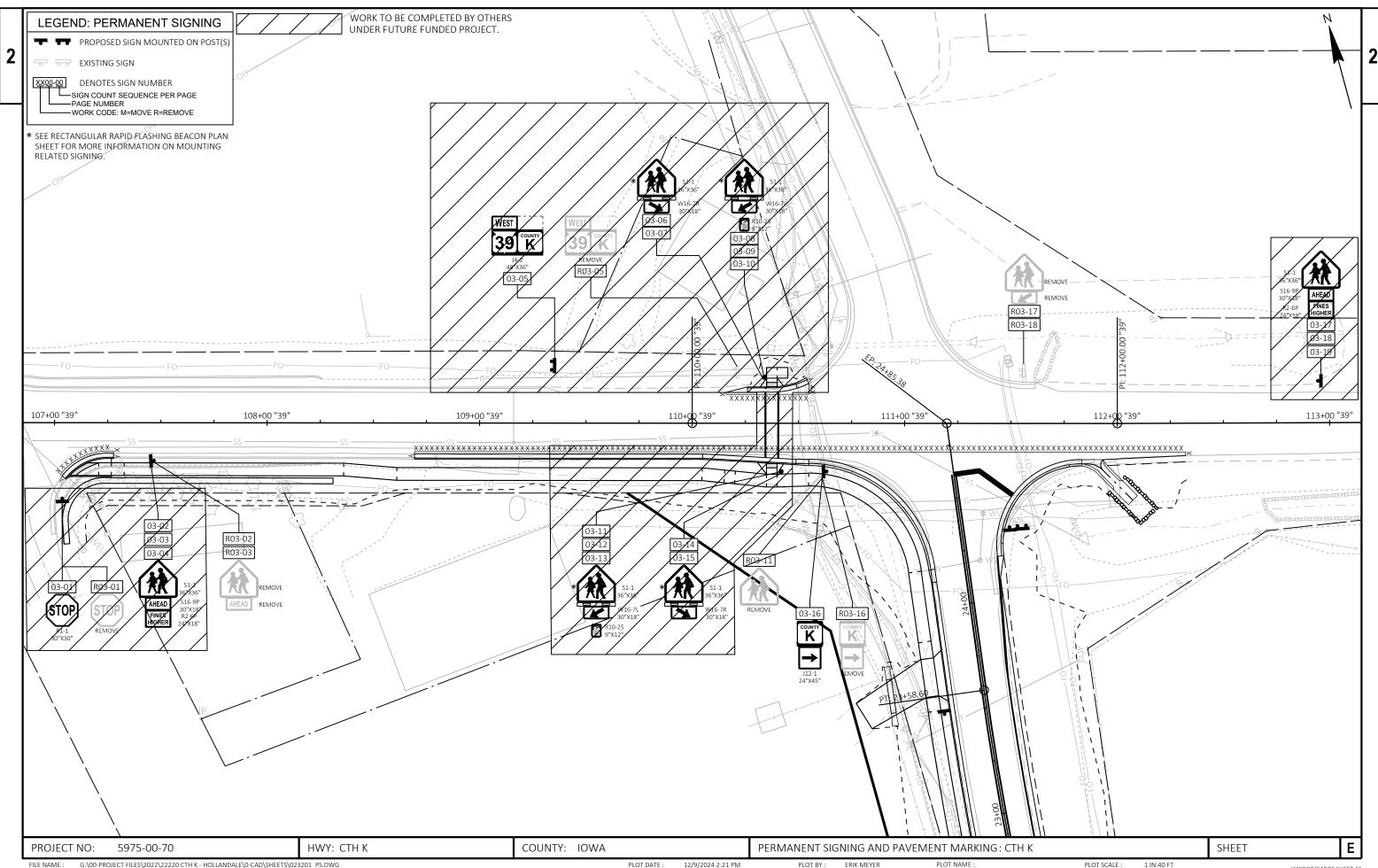




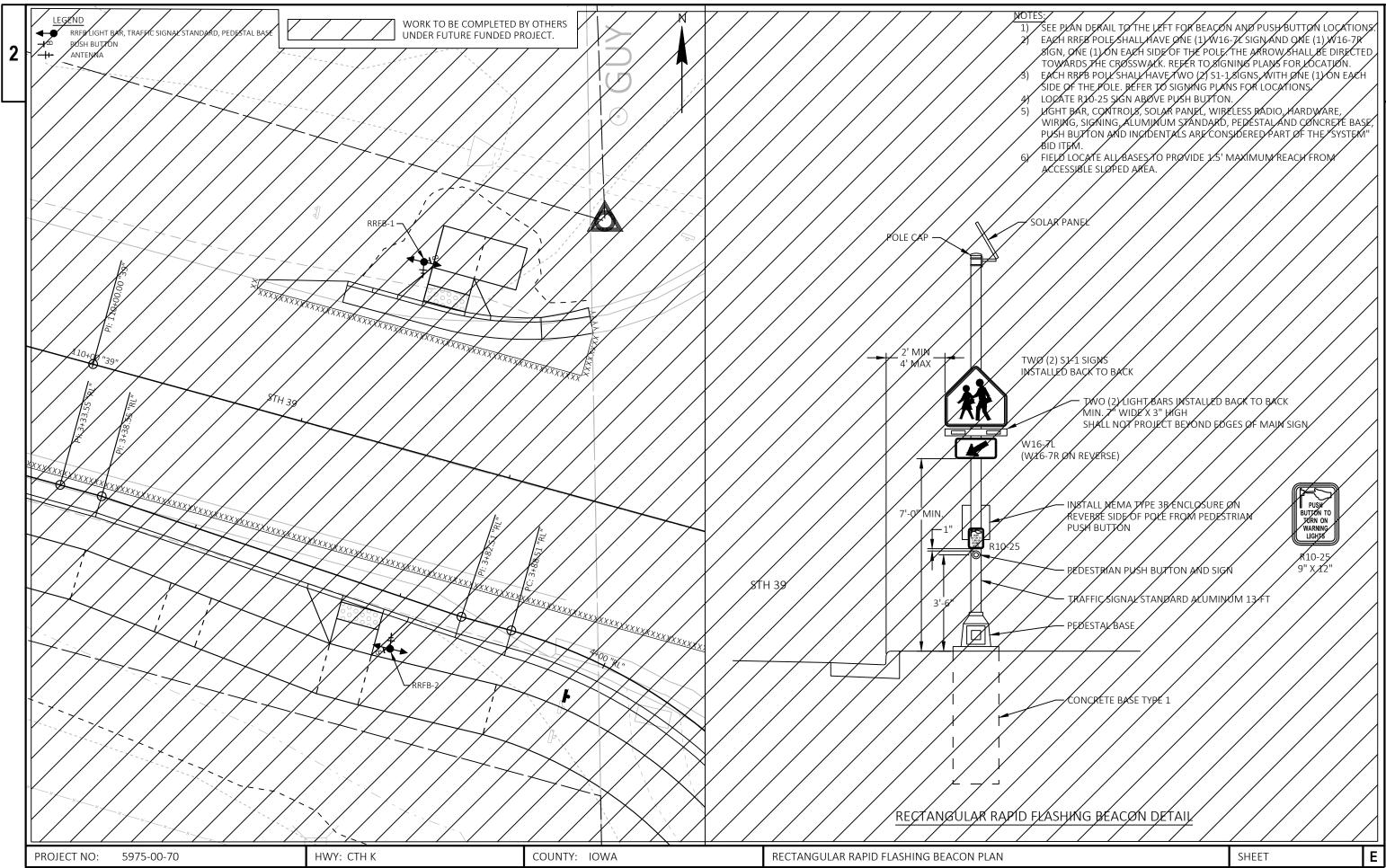




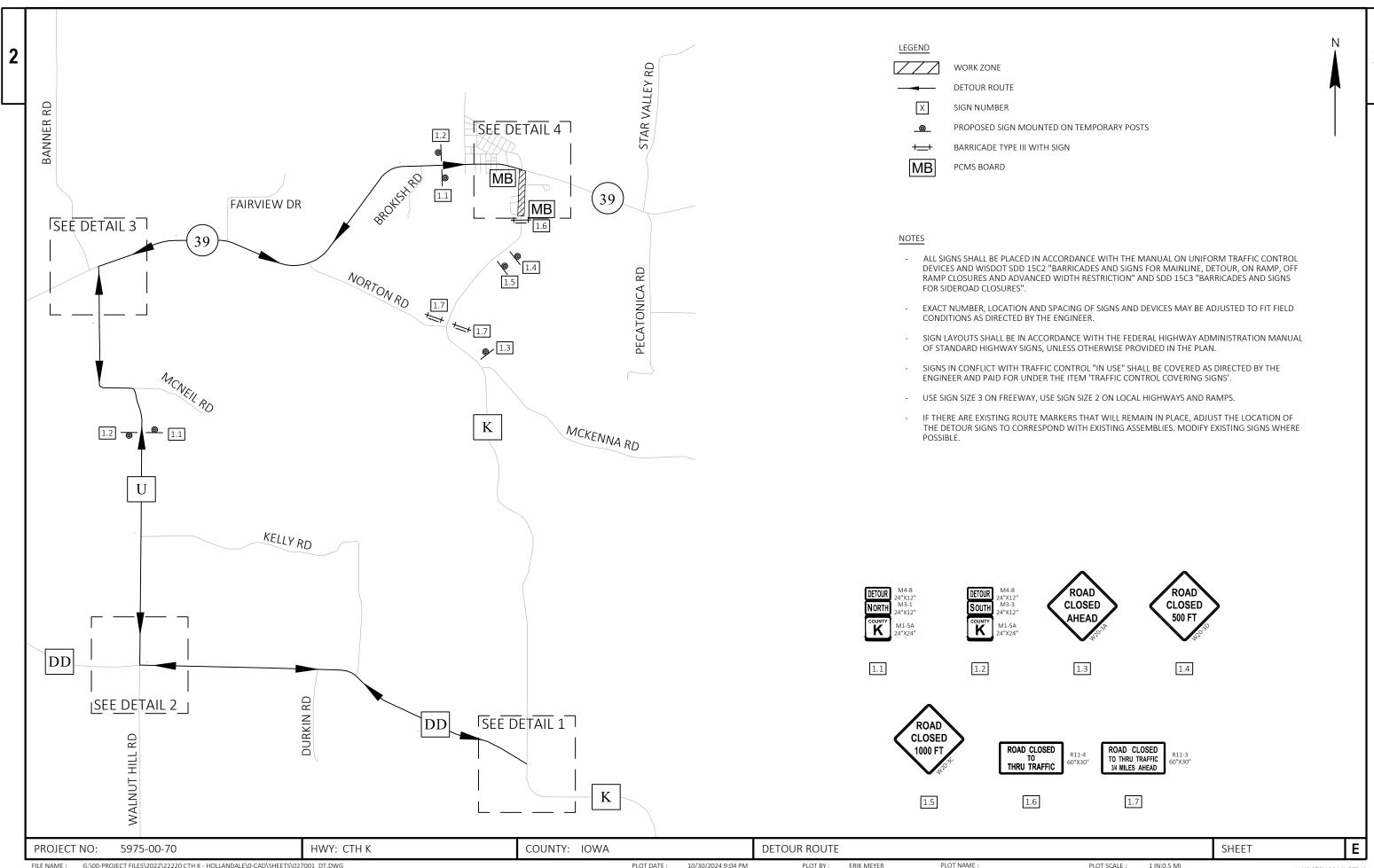
FILE NAME: G\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\023201_PS.DWG PLOT DATE: 12/9/2024 2:21 PM PLOT BY: ERIK MEYER PLOT NAME: PLOT SCALE: 1 IN:40 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 023202_ps



LAYOUT NAME - 023203_ps

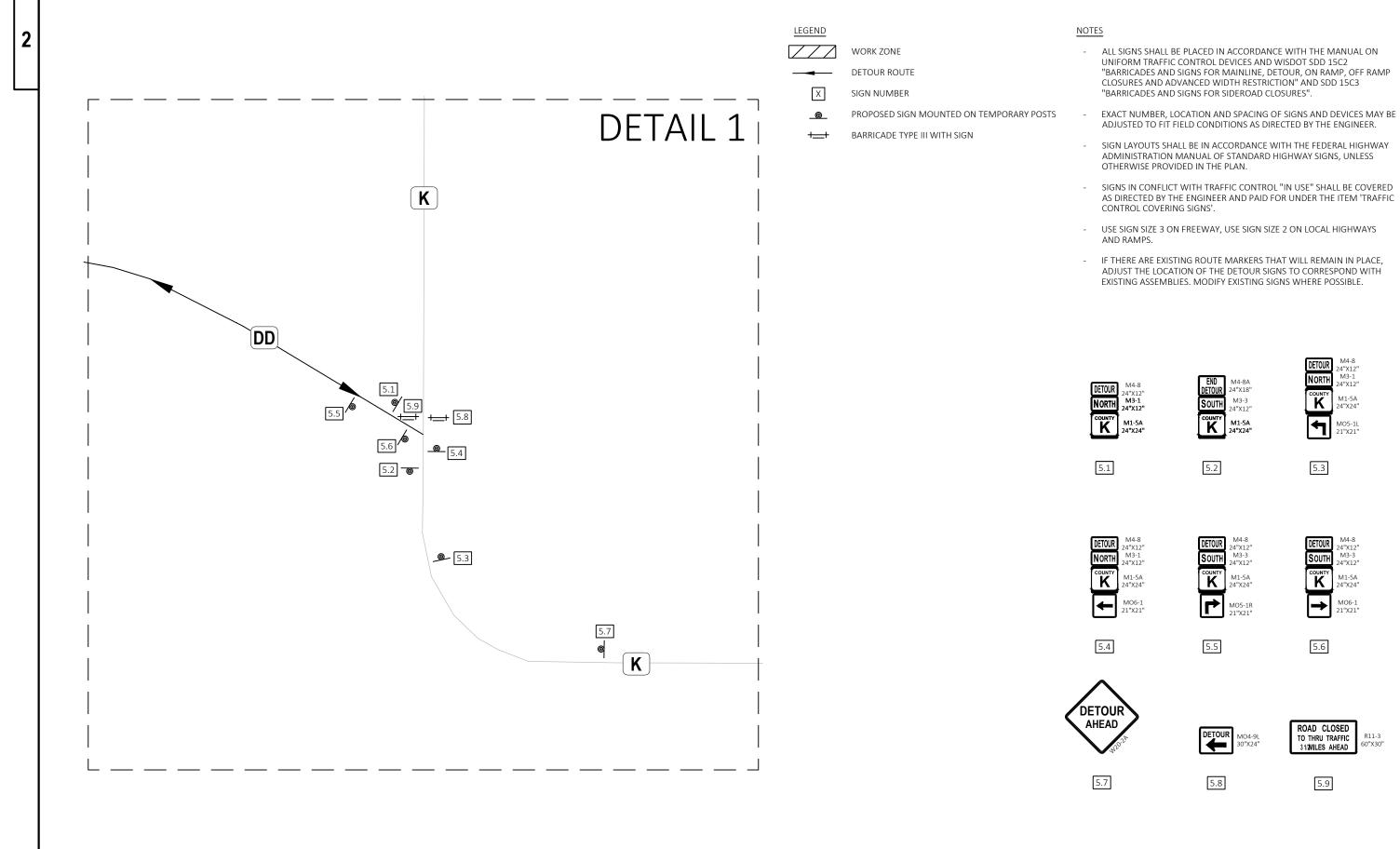


PLOT BY:



G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\027001 DT.DWG PLOT DATE : PLOT BY: ERIK MEYER PLOT NAME PLOT SCALE : 1 IN:0.5 MI 10/30/2024 9:04 PM





COUNTY: IOWA

FILE NAME: G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\027001_DT.DWG PLOT DATE: 10/30/2024 9:04 PM LAYOUT NAME - 027002_dt 10/30/2024 9:04 PM

HWY: CTH K

PROJECT NO:

5975-00-70

PLOT BY: ERIK MEYER PLOT NAME:

DETOUR ROUTE

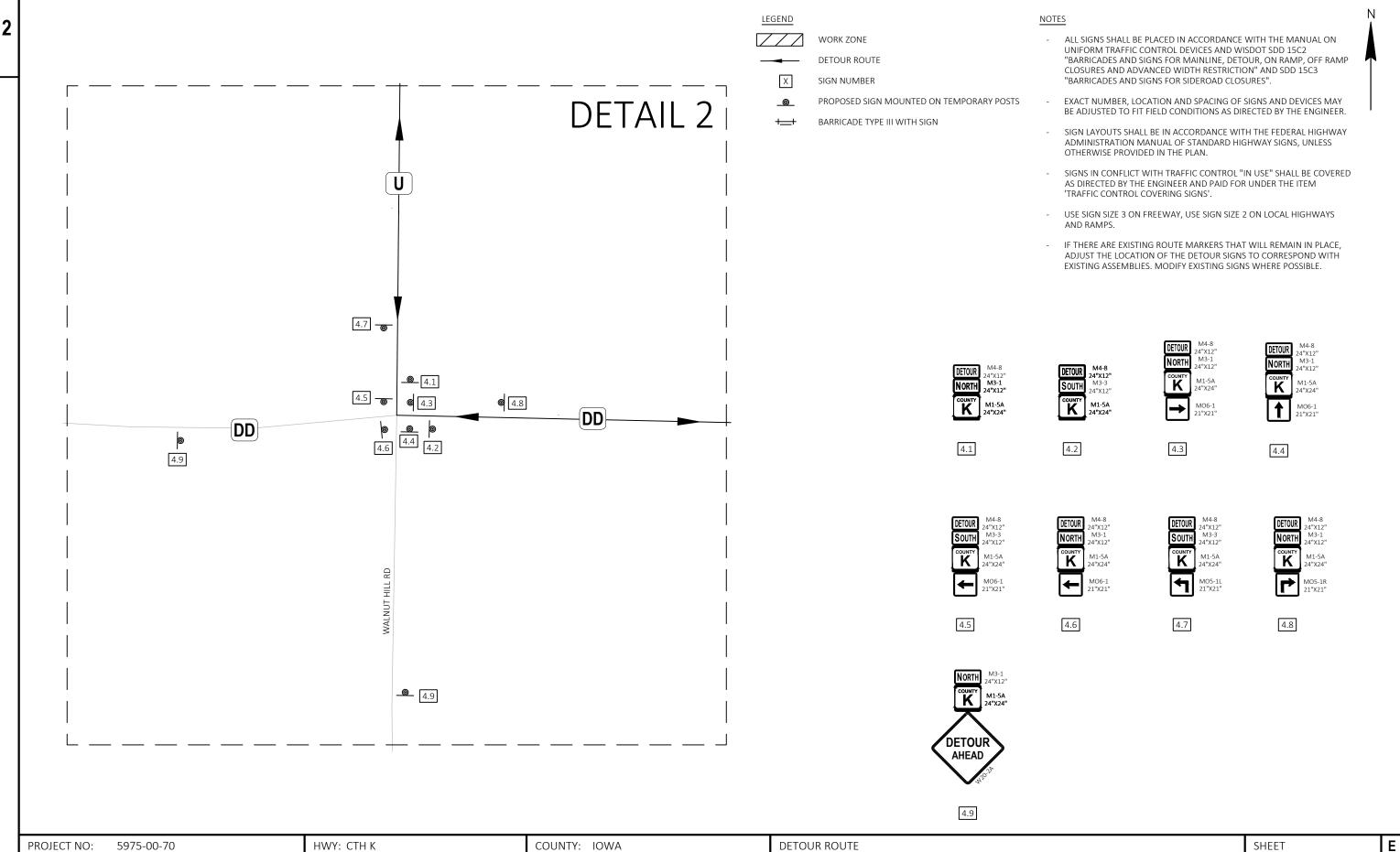
PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

SHEET

Ε





FILE NAME : G;\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\027001_DT.DWG LAYOUT NAME - 027003_dt

PLOT DATE : 10/30/2024 9:04 PM

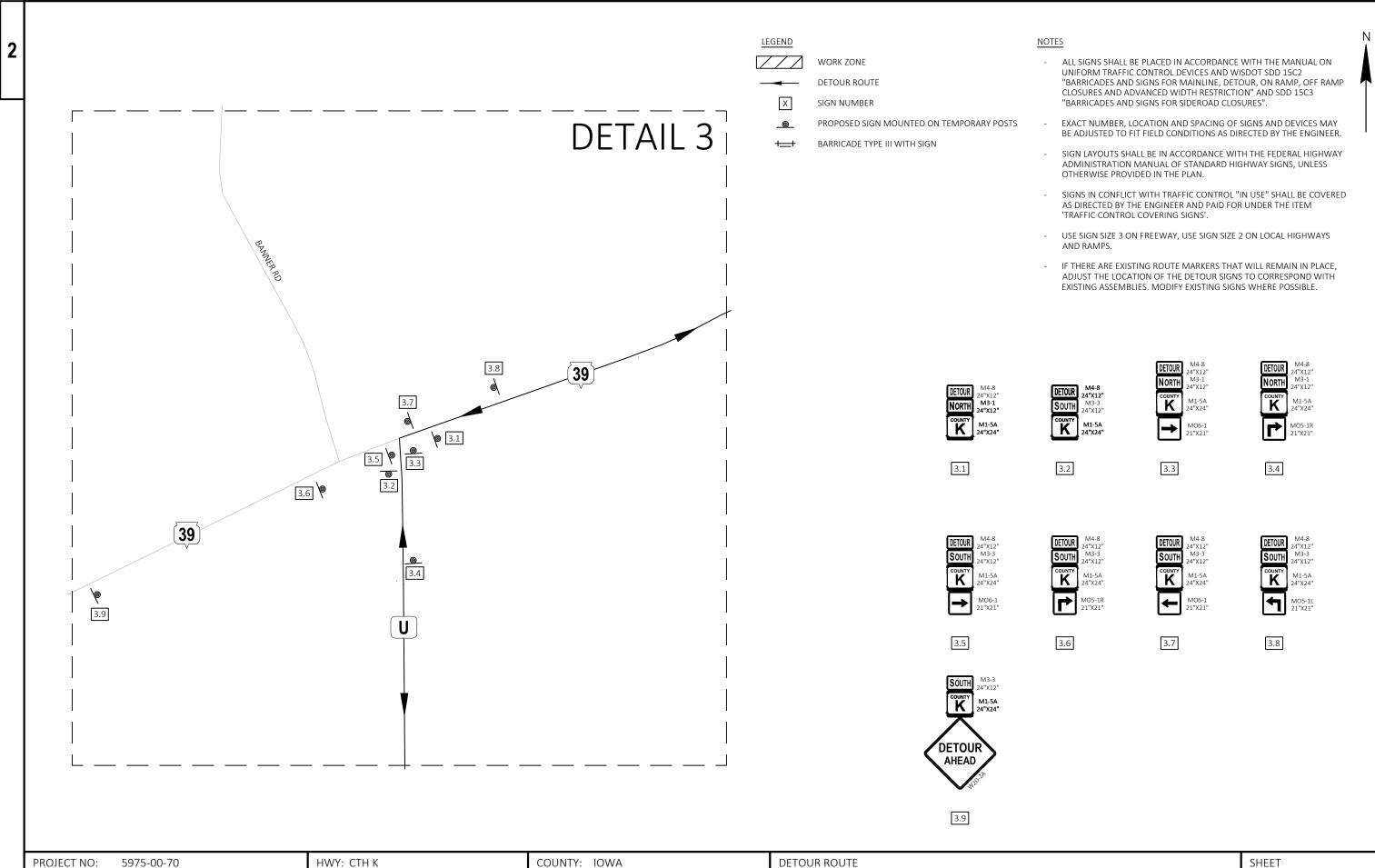
PLOT BY: ERIK MEYER

PLOT NAME

PLOT SCALE :

1 IN:400 FT





FILE NAME : G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\027001 DT.DWG PLOT DATE :

10/30/2024 9:04 PM

ERIK MEYER PLOT BY:

PLOT NAME

PLOT SCALE :

1 IN:400 FT

WISDOT/CADDS SHEET 42

LAYOUT NAME - 027004_dt

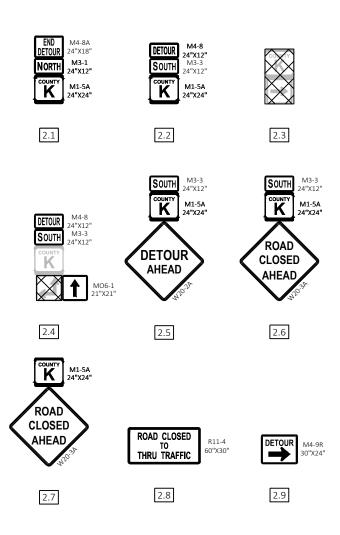
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2.8

NOTES

- ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND WISDOT SDD 15C2 "BARRICADES AND SIGNS FOR MAINLINE, DETOUR, ON RAMP, OFF RAMP CLOSURES AND ADVANCED WIDTH RESTRICTION" AND SDD 15C3 "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".
- EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED IN THE PLAN.
- SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM 'TRAFFIC CONTROL COVERING SIGNS'.
- USE SIGN SIZE 3 ON FREEWAY, USE SIGN SIZE 2 ON LOCAL HIGHWAYS AND RAMPS.
- IF THERE ARE EXISTING ROUTE MARKERS THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR SIGNS TO CORRESPOND WITH EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE.



PROJECT NO: 5975-00-70 HWY: CTH K COUNTY: IOWA **DETOUR ROUTE** SHEET G:\00-PROJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\027001 DT.DWG FILE NAME :

LEGEND

WORK ZONE

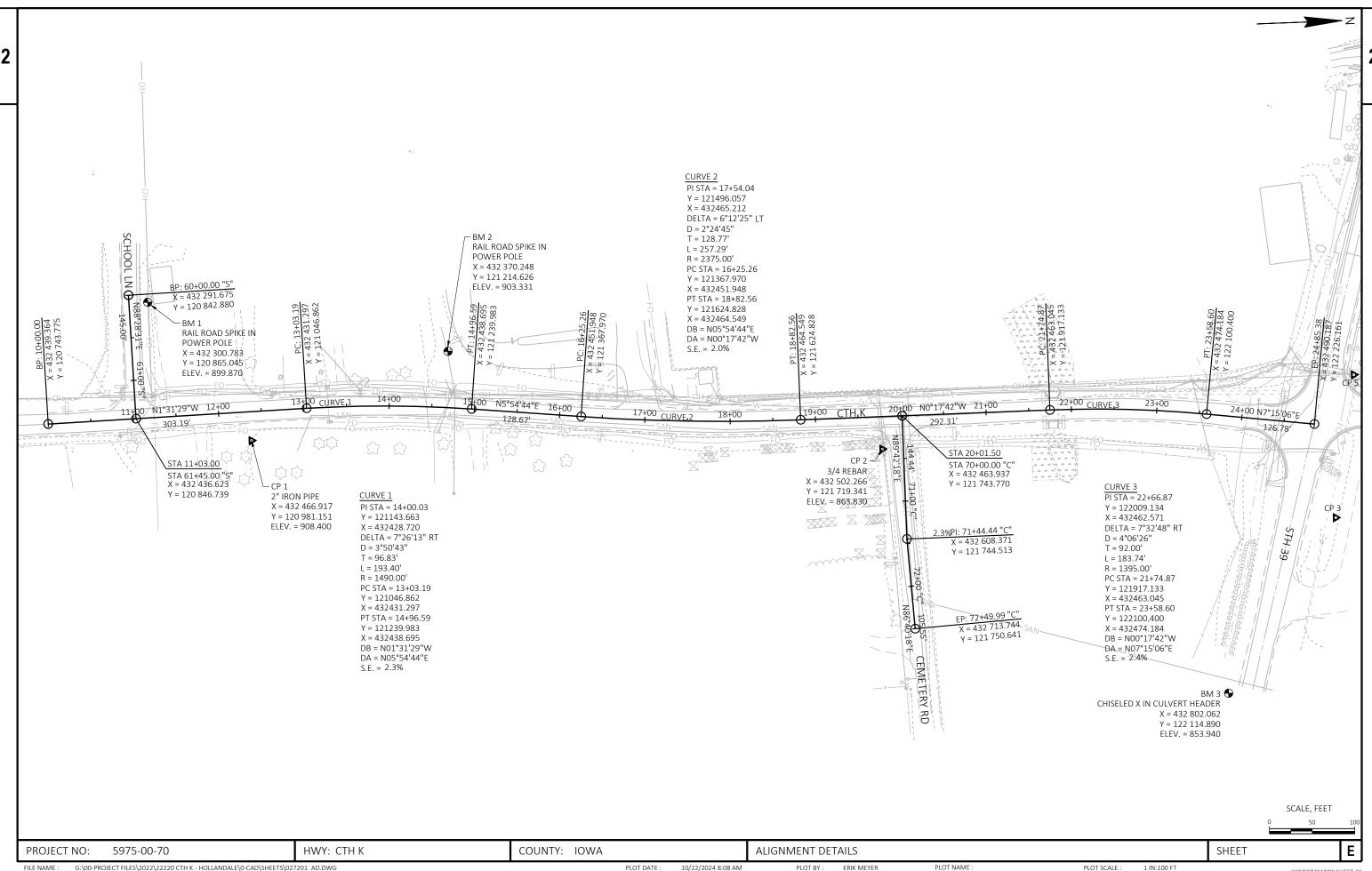
PLOT DATE : 10/30/2024 9:04 PM PLOT BY: ERIK MEYER PLOT NAME

PLOT SCALE :

1 IN:400 FT

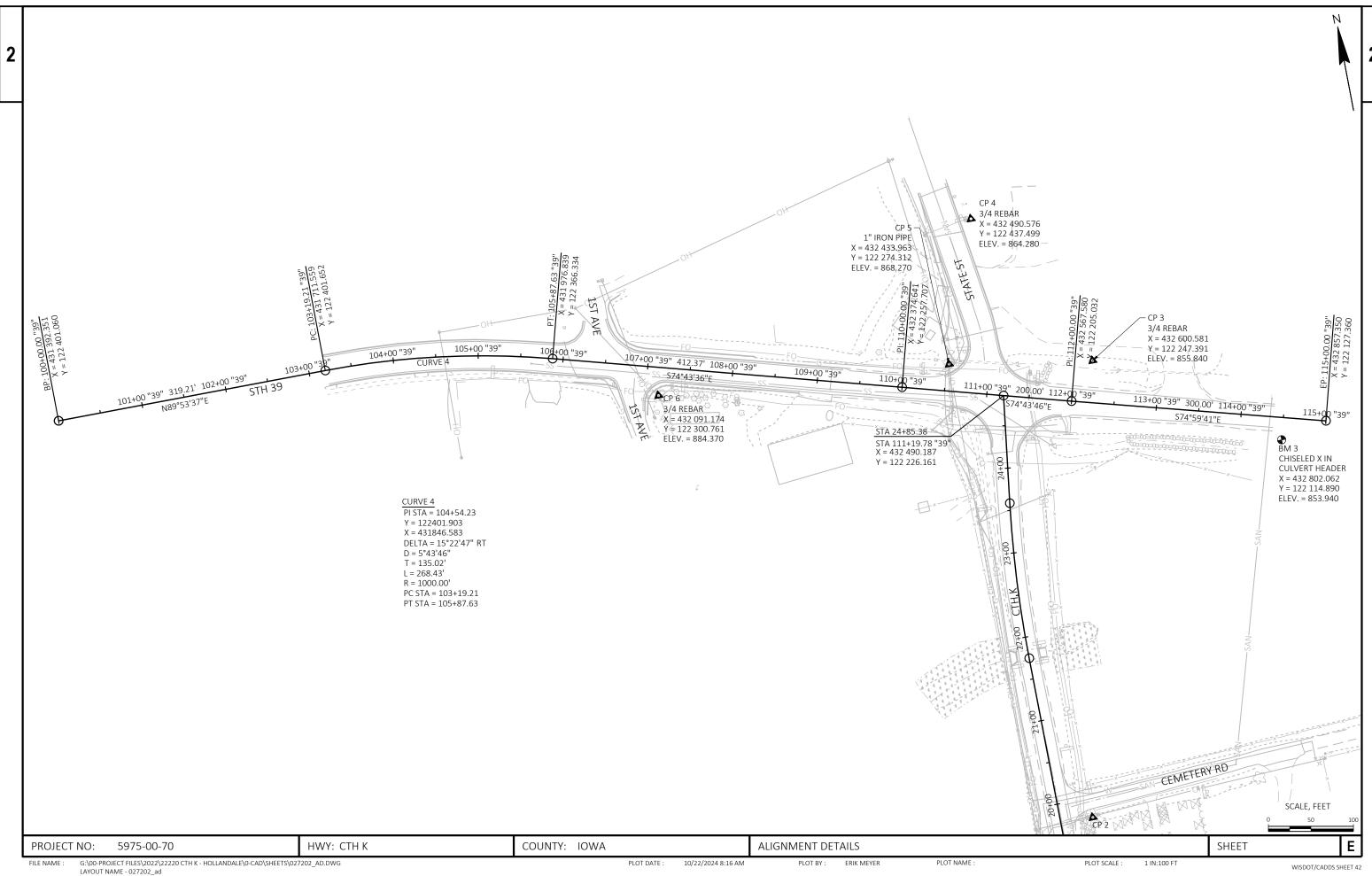
WISDOT/CADDS SHEET 42

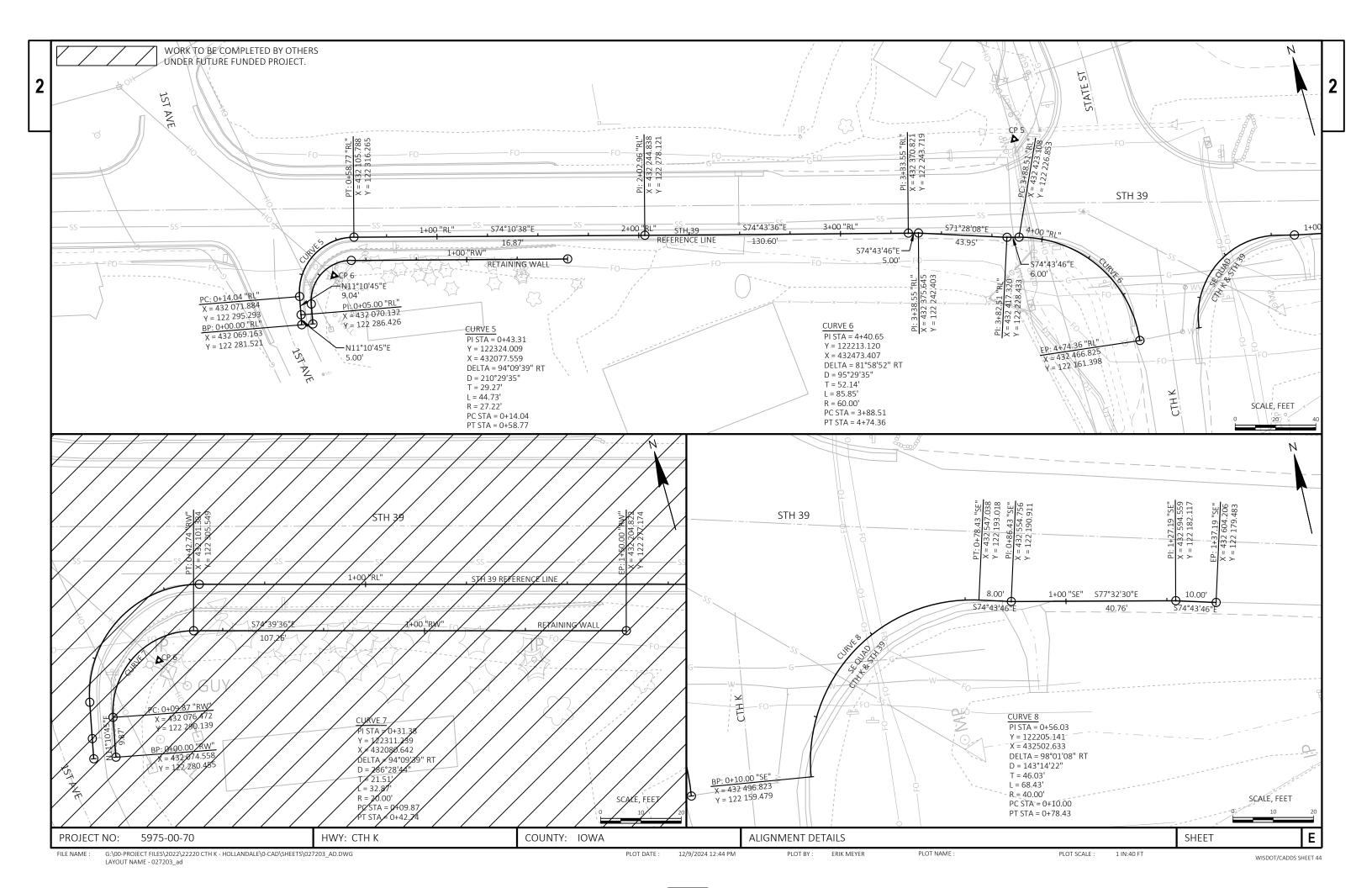
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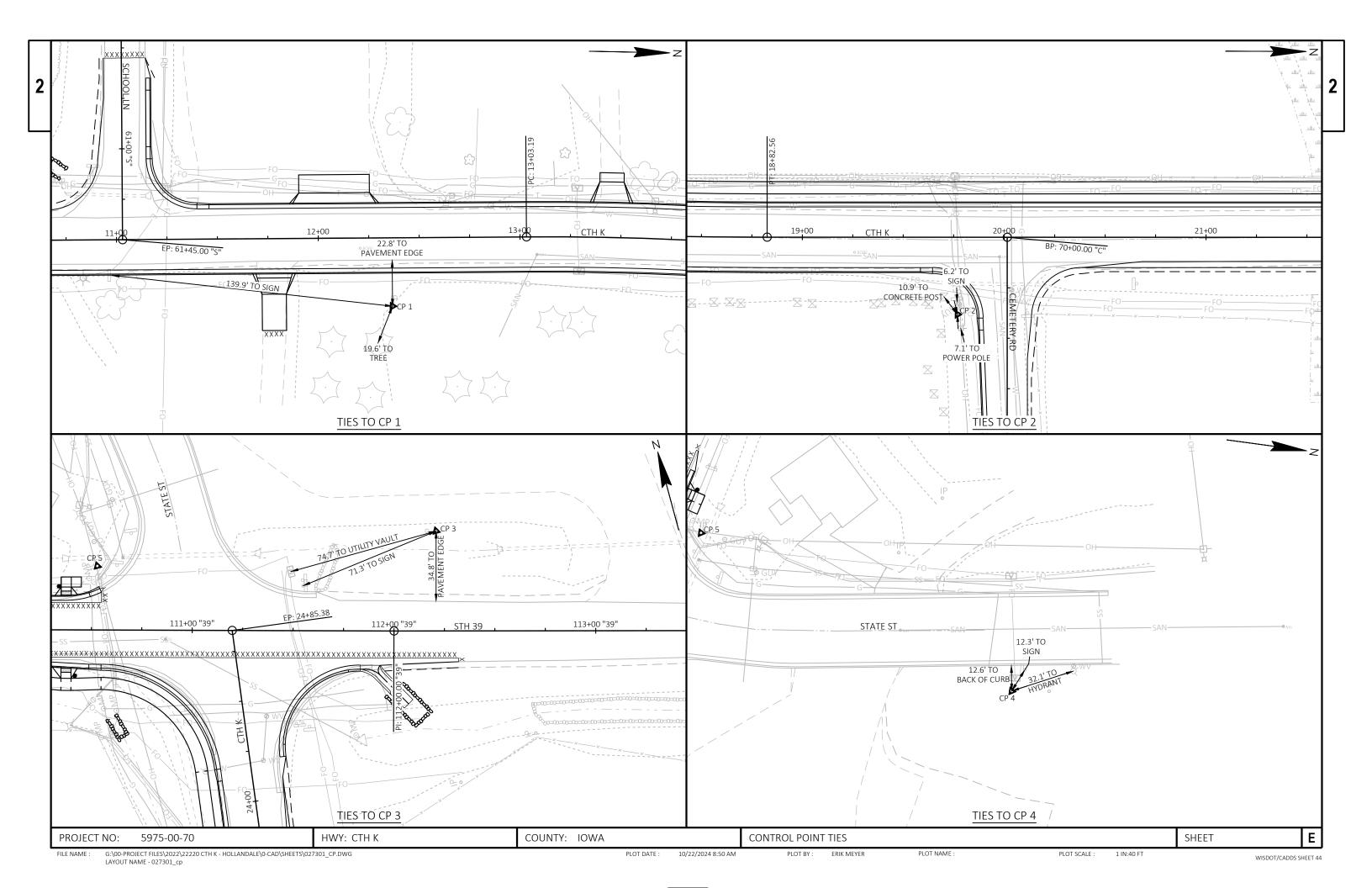


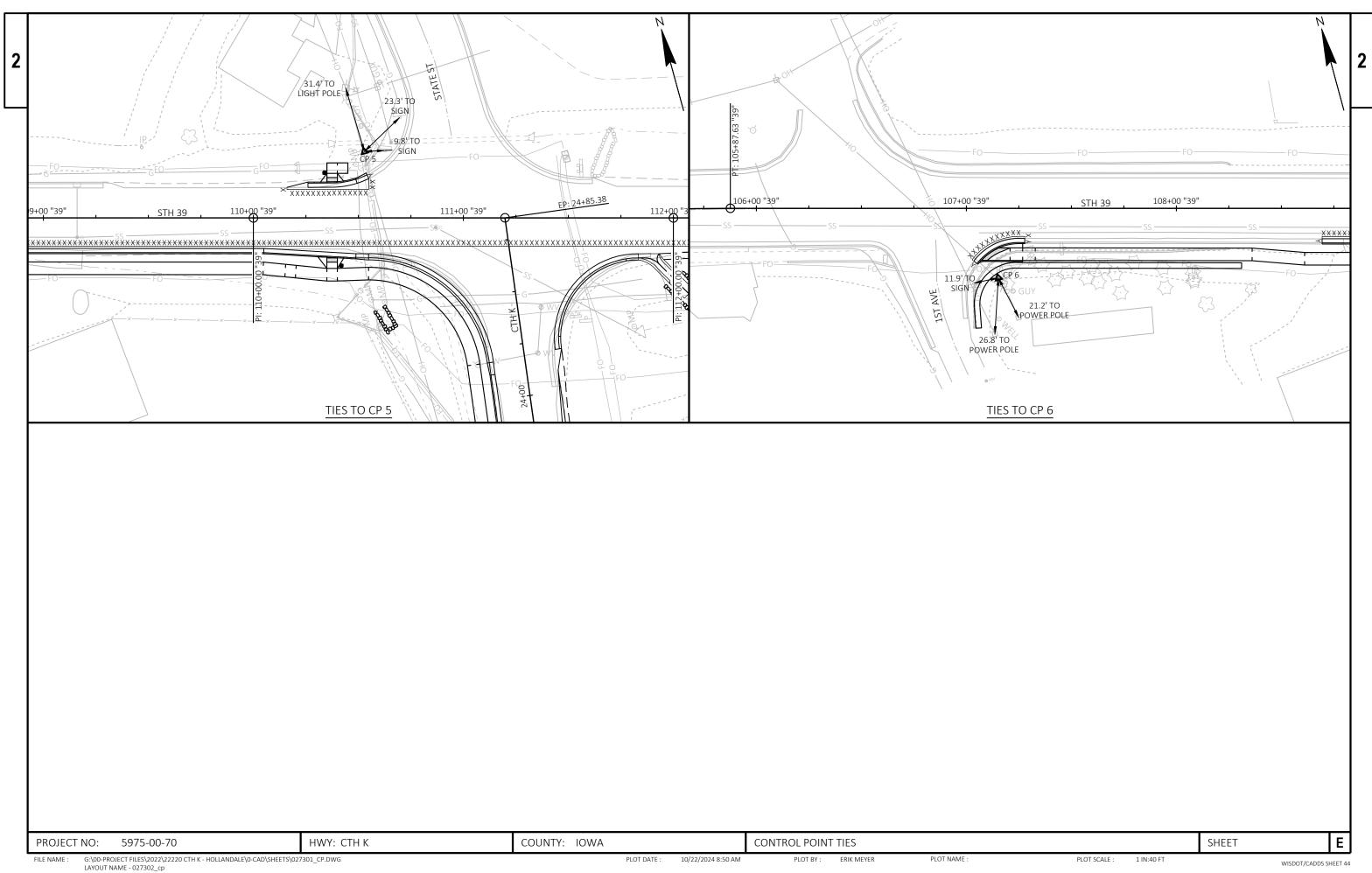
LAYOUT NAME - 027201_ad

PLOT NAME :









0094

0096

0098

628.1504

628.1520

628.1905

Silt Fence

Silt Fence Maintenance

Mobilizations Erosion Control

2,130.000

5,115.000

6.000

2,130.000

5,115.000

6.000

LF

LF

EACH

3

					5975-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0220	Grubbing	ID	90.000	90.000
0004	203.0100	Removing Small Pipe Culverts	EACH	6.000	6.000
0006	203.0220	Removing Structure (structure) 01. STA 21+79	EACH	1.000	1.000
8000	204.0150	Removing Curb & Gutter	LF	161.000	161.000
0010	204.0155	Removing Concrete Sidewalk	SY	84.000	84.000
0012	204.0190	Removing Surface Drains	EACH	1.000	1.000
0014	205.0100	Excavation Common	CY	2,725.000	2,725.000
0016	208.0100	Borrow	CY	289.000	289.000
0018	213.0100	Finishing Roadway (project) 01. 5975-00-70	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	145.000	145.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	4,971.000	4,971.000
0024	455.0605	Tack Coat	GAL	278.000	278.000
0026	465.0105	Asphaltic Surface	TON	1,395.000	1,395.000
0028	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	12.000	12.000
0030	465.0315	Asphaltic Flumes	SY	23.000	23.000
0032	521.1277	Apron Endwalls for Pipe Arch Steel 77x52-Inch	EACH	4.000	4.000
0034	521.3777	Pipe Arch Corrugated Steel 77x52-Inch	LF	124.000	124.000
0036	522.0412	Culvert Pipe Reinforced Concrete Class IV 12-Inch	LF	40.000	40.000
0038	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0040	522.2414	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	LF	16.000	16.000
0042	522.2614	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 14x23-Inch	EACH	2.000	2.000
0044	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	2.000	2.000
0046	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,315.000	2,315.000
0048	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	256.000	256.000
0050	602.0810	Concrete Driveway 6-Inch	SY	63.000	63.000
0052	606.0200	Riprap Medium	CY	60.000	60.000
0054	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	260.000	260.000
0056	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	453.000	453.000
0058	608.2419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	99.000	99.000
0060	611.0420	Reconstructing Manholes	EACH	2.000	2.000
0062	611.0530	Manhole Covers Type J	EACH	4.000	4.000
0064	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0066	611.0624	Inlet Covers Type H	EACH	9.000	9.000
0068	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000
0070	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0072	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0074	611.3003	Inlets 3-FT Diameter	EACH	1.000	1.000
0076	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000
0078	611.3230	Inlets 2x3-FT	EACH	8.000	8.000
0800	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000
0082	611.8120.S	Cover Plates Temporary	EACH	18.000	18.000
0084	618.0100	Maintenance and Repair of Haul Roads (project) 01. 5975-00-70	EACH	1.000	1.000
0086	619.1000	Mobilization	EACH	1.000	1.000
0088	624.0100	Water	MGAL	49.600	49.600
0090	625.0500	Salvaged Topsoil	SY	5,800.000	5,800.000
0092	627.0200	Mulching	SY	5,750.000	5,750.000
0002	628 1504	Silt Fonce	I E	2 130 000	2 130 000

0170

0172

0174

0176

0178

0180

0182

650.9911

650.9920

690.0150

ASP.1T0A

SPV.0060

SPV.0060

EACH

LF

LF

HRS

HRS

EACH

EACH

1.000

1,710.000

310.000

600.000

7.000

3.000

1,200.000

1.000

1,710.000

1,200.000

310.000

600.000

7.000

3.000

3 |

Line	Item	Item Description	Unit	Total	Qty
0100	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0102	628.2008	Erosion Mat Urban Class I Type B	SY	100.000	100.000
0104	628.7005	Inlet Protection Type A	EACH	2.000	2.000
0106	628.7015	Inlet Protection Type C	EACH	12.000	12.000
0108	628.7504	Temporary Ditch Checks	LF	381.000	381.000
0110	628.7555	Culvert Pipe Checks	EACH	18.000	18.000
0112	629.0210	Fertilizer Type B	CWT	5.500	5.500
0114	630.0130	Seeding Mixture No. 30	LB	200.000	200.000
0116	630.0140	Seeding Mixture No. 40	LB	170.000	170.000
0118	630.0200	Seeding Temporary	LB	230.000	230.000
0120	630.0500	Seed Water	MGAL	145.000	145.000
0122	633.5200	Markers Culvert End	EACH	2.000	2.000
0124	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	5.000	5.000
0126	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	7.000	7.000
0128	637.2210	Signs Type II Reflective H	SF	54.540	54.540
0130	637.2230	Signs Type II Reflective F	SF	23.750	23.750
0132	638.2102	Moving Signs Type II	EACH	4.000	4.000
0134	638.2602	Removing Signs Type II	EACH	21.000	21.000
0136	638.3000	Removing Small Sign Supports	EACH	19.000	19.000
0138	642.5001	Field Office Type B	EACH	1.000	1.000
0140	643.0300	Traffic Control Drums	DAY	420.000	420.000
0142	643.0420	Traffic Control Barricades Type III	DAY	1,750.000	1,750.000
0144	643.0705	Traffic Control Warning Lights Type A	DAY	3,920.000	3,920.000
0146	643.0900	Traffic Control Signs	DAY	12,320.000	12,320.000
0148	643.0920	Traffic Control Covering Signs Type II	EACH	5.000	5.000
0150	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0152	643.5000	Traffic Control	EACH	1.000	1.000
0154	645.0120	Geotextile Type HR	SY	172.000	172.000
0156	646.1020	Marking Line Epoxy 4-Inch	LF	3,294.000	3,294.000
0158	646.6120	Marking Stop Line Epoxy 18-Inch	LF	32.000	32.000
0160	650.4000	Construction Staking Storm Sewer	EACH	16.000	16.000
0162	650.4500	Construction Staking Subgrade	LF	1,710.000	1,710.000
0164	650.5000	Construction Staking Base	LF	1,710.000	1,710.000
0166	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	2,571.000	2,571.000
0168	650.6000	Construction Staking Pipe Culverts	EACH	4.000	4.000
0470	050 0044	0 1 1 0 1 0 1 1 1 0 1 1 1 0 1 1	E4011	4 000	4 000

Construction Staking Supplemental Control (project) 01. 5975-00-70

Construction Staking Slope Stakes

Special 01. Adjusting Water Valves

Special 02. Relocate Fire Hydrants

ASP.1T0G On-the-Job Training Graduate at \$5.00/HR

On-the-Job Training Apprentice at \$5.00/HR

Sawing Asphalt

SCELLANEOUS QUANTITIES EXCLUDE WORK TO BE OMPLETED UNDER FUTURE FUNDED PROJECT.			REMOVIN	IG CULVERTS								
<u>GRUBBING</u> 201.0220		CATEGORY STATION LOC	203.0100 REMOVING SMALL PIPE CULVERTS CATION EACH	STRUCTURE	REMARKS	S			REMOVING	CURB & G	GUTTER	204.0150
CATEGORY STATION LOCATION ID REMARKS 0010 11+07 CTH K, 24' RT 32 OAK 0010 15+27 CTH K, 20' RT 26 OAK 0010 15+47 CTH K, 24' RT 32 OAK TOTAL 0010 90		0010 11+78 CTH 0010 16+96 CTH 0010 17+56 CTH 0010 20+02 CTH 0010 21+79 CTH 0010 23+68 CTH	H K, LT 1 H K, RT 1 H K, LT 1 H K, LT 1 H K, LT 1 H K, RT 1 TH K H K, LT 1 AL 0010 6	1 1	SCHOOL LN, 15-IN DRIVEWAY, 12-IN DRIVEWAY, 12-IN DRIVEWAY, 12-IN CEMETERY RD, 15-I REINFORCED CONCRETE DRIVEWAY, 24-IN	CH CMCP CH CMCP CH CMCP INCH CMCP E BOX CULVE	 C	EGORY STATIO 0010 24+0 0010 24+2		4+58	LOCATION CTH K, RT CTH K, LT TOTAL 0010	LF 87
REMOVING CONCRETE SIDEWALK					EARTHWORK							
204.0155 CATEGORY STATION TO STATION LOCATION SY			FROM/TO	205.0100 EXCAVATION COMMO (1) CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	MATERIAL	UNEXPANDED	EXPANDED FILL (5) FACTOR	ORDINATE +/-	WASTE	208.0100	
0010 22+92 - 24+73 CTH K, LT <u>84</u> TOTAL 0010 84		DIVISION CATEGORY 0010 CTY K SCHOOL LN CEMETERY RD SW QUAD CTH K & STH 39	STATION 10+25.00/24+70.00 60+55.00/61+30.00 70+15.00/71+35.00 3+82.51/4+37.15	102 80 65	666 30 42 8	1,769 72 38 57	1,728 19 53 3	2,160 24 66 4	-391 48 -28 53	(7) 48 53	391 28 	
REMOVING SURFACE DRAINS		SE QUAD CTH K & STH 39 CATEGORY 0010 SUBTOTA GRAND TOTAL NOTES:	0+40.17/1+27.19	2,725 2,725	758 758	1,967 1,967	2 1,805 1,805	2,256	-289 -289	29 	289	
CATEGORY STATION LOCATION EACH 0010 24+56 CTH K, RT 1 TOTAL 0010 1		(1) EXCAVATION COMMON IS (2) SALVAGED/UNSUABLE PAY (3) SALVAGED/UNUSABLE PAY (4) AVAILABLE MATERIAL = CU (5) EXPANDED FILL FACTOR (6) THE MASS ORDINATE + OF MATERIAL WITHIN THE DIVISI (7) FACTORS USED TO COMPU	VEMENT MATERIAL IS INC VEMENT MATERIAL CONSI JT - SALVAGED/UNUSUAB 1.25, EXPANDED FILL=UN R - QTY CALCULATED FOR TON.	STS OF EXISTING ASPHAI LE PAVEMENT MATERIAI EXPANDED FILL*FILL FAC THE DIVISION. PLUS QUA	L CTOR NTITY INDICATES AN EXC				NUS INDICATE	ES A SHOR	TAGE OF	
CATEGORY STATION LOCATION EACH 0010 24+56 CTH K, RT 1 TOTAL 0010 1 BASE AGGREGATE * *		(1) EXCAVATION COMMON IS (2) SALVAGED/UNSUABLE PAY (3) SALVAGED/UNUSABLE PAY (4) AVAILABLE MATERIAL = CU (5) EXPANDED FILL FACTOR = (6) THE MASS ORDINATE + OF MATERIAL WITHIN THE DIVISI (7) FACTORS USED TO COMPU	VEMENT MATERIAL IS INC VEMENT MATERIAL CONSI JT - SALVAGED/UNUSUAB 1.25, EXPANDED FILL=UN R - QTY CALCULATED FOR TON UTE ANTICIPATED WASTE DRIVEWAYS * 305.0120 46 ASE SU	STS OF EXISTING ASPHAI LE PAVEMENT MATERIAL EXPANDED FILL*FILL FAC THE DIVISION. PLUS QUA AND THE COMPUTED WA 5.0120 602.0810 THALTIC RFACE	L CTOR NTITY INDICATES AN EXC			AATION ONLY.			TAGE OF	
CATEGORY STATION LOCATION EACH	CATEGORY STATION	(1) EXCAVATION COMMON IS (2) SALVAGED/UNSUABLE PAY (3) SALVAGED/UNUSABLE PAY (4) AVAILABLE MATERIAL = CU (5) EXPANDED FILL FACTOR = (6) THE MASS ORDINATE + OF MATERIAL WITHIN THE DIVISI (7) FACTORS USED TO COMPU	VEMENT MATERIAL IS INCO VEMENT MATERIAL CONSI UT - SALVAGED/UNUSUAB 1.25, EXPANDED FILL=UN R - QTY CALCULATED FOR TON ON. UTE ANTICIPATED WASTE * 305.0120 46 ASF SU BASE DRIVE TE AGGREGATE DENSE F 1 1/4-INCH ENT	STS OF EXISTING ASPHAI LE PAVEMENT MATERIAL EXPANDED FILL*FILL FAC THE DIVISION. PLUS QUA AND THE COMPUTED WA 5.0120 602.0810 PHALTIC	L CTOR NTITY INDICATES AN EXC			AATION ONLY.	NUS INDICATE		TAGE OF 455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
CATEGORY STATION LOCATION EACH	0010 11+78 0010 12+06 0010 13+45 0010 15+06 0010 16+95	(1) EXCAVATION COMMON IS (2) SALVAGED/UNSUABLE PAY (3) SALVAGED/UNUSABLE PAY (4) AVAILABLE MATERIAL = CU (5) EXPANDED FILL FACTOR = (6) THE MASS ORDINATE + OF MATERIAL WITHIN THE DIVISI (7) FACTORS USED TO COMPU * 305.0110 BASE AGGREGAT DENSE 3/4-INCH LOCATION TON CTH K, RT CTH K, LT 12 CTH K, LT 3 CTH K, LT CTH K, LT CTH K, LT CTH K, LT	VEMENT MATERIAL IS INCIVEMENT MATERIAL CONSI UT - SALVAGED/UNUSUAB 1.25, EXPANDED FILL=UN R - QTY CALCULATED FOR TON DRIVEWAYS * 305.0120 46 ASF SU BASE DRIVE E AGGREGATE DENSE F 11/4-INCH ENT TON 15 8 7 13 33	STS OF EXISTING ASPHAL LE PAVEMENT MATERIAL EXPANDED FILL*FILL FAC THE DIVISION. PLUS QUA AND THE COMPUTED WA 5.0120 602.0810 CHALTIC RFACE /EWAYS AND CONCRETE /EILD DRIVEWAY RANCES 6-INCH TON SY 3 7 8 7 2 8 7 15	L CTOR .NTITY INDICATES AN EXC ASTE VOLUME IDENTIFIEI		SORY STATIO 10 10+25 10 11+03 10 20+02 10 60+55	AATION ONLY.	N LOCA CTH CTH CTH CTH CTH CTH CTH CTH CTH CT	MENT I K I K I K I K OL LN ERY RD	455.0605 TACK COAT GAL 15 155 90 7 11	ASPHALTIC SURFACE TON 76 780 451 32 56
Note	0010 11+78 0010 12+06 0010 13+45 0010 15+06 0010 16+95 0010 17+54 0010 23+64 0010 71+09 "C"	(1) EXCAVATION COMMON IS (2) SALVAGED/UNSUABLE PAY (3) SALVAGED/UNUSABLE PAY (4) AVAILABLE MATERIAL = CU (5) EXPANDED FILL FACTOR = (6) THE MASS ORDINATE + OF MATERIAL WITHIN THE DIVISI (7) FACTORS USED TO COMPU * 305.0110 BASE AGGREGAT DENSE 3/4-INCH LOCATION TON CTH K, RT CTH K, LT 12 CTH K, LT 3 CTH K, RT	VEMENT MATERIAL IS INCIVEMENT MATERIAL CONSI UT - SALVAGED/UNUSUAB 1.25, EXPANDED FILL=UN R - QTY CALCULATED FOR TON. UTE ANTICIPATED WASTE A DRIVEWAYS * 305.0120 46 ASF SU BASE DRIVEMENT TON 15 8 7 13 33 5 26 4 111	STS OF EXISTING ASPHAILE PAVEMENT MATERIAL EXPANDED FILL*FILL FACTHE DIVISION. PLUS QUATAND THE COMPUTED WATERIAL CONCRETE FACE //EWAYS AND CONCRETE FIELD DRIVEWAY RANCES 6-INCH TON SY 3 7 8 7 2 8	REMARKS ASPHALT BASE AGGREGATE DENSE BASE AGGREGATE DENSE BASE AGGREGATE DENSE ASPHALT ASPHALT ASPHALT ASPHALT	CATEG 001 001 001	SORY STATIO 10 10+25 10 11+03 10 20+02 10 60+55	ASP N TO STATION 1 11+03 2 20+02 2 24+72 S" - 61+05 "S	N LOCA CTH CTH CTH CTH CTH CTH STHOOLOGE	MENT I K I K I K I K OL LN ERY RD	455.0605 TACK COAT GAL 15 155 90 7	ASPHALTIC SURFACE TON 76 780 451 32

		•	ITITIES EXCLUDE ITURE FUNDED P										9	CULVERT PIPE SUMMARY								
	CATEGORY		ALTIC FLUMES	465.0315 SY	<u>CATEGORY</u>	STATION	LOCATION	521.127 APRON END' FOR PIPE A STEEL 77X52-IN EACH	WALLS ARCH ICH	521.3777 PIPE ARCH CORRUGATED STEEL 77X52-INCH LF	522.041 CULVERT I REINFORG CONCRE CLASS I' 12-INCI LF	PIPE APRO CED FOR TE R	522.1012 DN ENDWALL: CULVERT PIPE EINFORCED CONCRETE 12-INCH EACH		CRETE TICAL	522.2614 APRON ENDW/ FOR CULVERT I REINFORCED CON HORIZONTAL ELLI 14X23-INCH EACH	ALLS PIPE NCRETE CO IPTICAL	650.6000 DINSTRUCTION STAKING PE CULVERTS EACH	JOINT TIES* EACH	STEEL THICKNESS INCHES	INLET** ELEVATION	OUTLET** ELEVATION
	0010 0010	10+35 24+60	CTH K, RT CTH K, RT TOTAL 0010	3 20 23	0010 0010 0010 0010	16+74.02 21+75.00 21+89.62 23+69.83	CTH K, LT CTH K CTH K CTH K, LT TOTAL 0010	2 2 4		62 62 124	40		2	 16 16		 2 2		1 1 1 1 4	6 3 9	0.168 0.168	887.74 856.62 857.00 860.75	885.46 855.83 855.80 860.18
L							TEM: FOR INFORN ERT AT END OF PIF	MATION ONLY PE FOR INFORMAT	ION ONLY	Y. FIELD VERIFY.												
						CURB & G	UTTER															
						01.0411	601.0557	650.5500 CONSTRUCTION	N								RIPRAI	PITEMS				
	<u>CATE</u>	GORY S	tation to stat	TION LOCAT	CURE 3	0-INCH	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	STAKING CURB GUTTER AND CURB & GUTTER		REMARKS		_			CATEGORY	' STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	REMARKS		
	00 00 00 00 00	010 010 010 010 010 010	10+35 - 19+ 11+17 - 11+ 11+46 - 24+ 19+59 - 19+ 24+12 - 24+ 24+20 - 24+ 0+65 "S" - 60+99 0+46 "C" - 71+38	46 CTH K .12 CTH K .88 CTH K .77 CTH K .58 CTH K .9 "S" SCHOOL	, LT , LT , RT , LT , RT LN, LT Y RD, RT	923 1,269 34 89 2,315	 48 48 95 65 256	923 48 1,269 48 95 65 34 89 2,571	SW	BOP TO CEMETE IE QUAD CTH K & SC SCHOOL LN TO S / QUAD CTH K & CE SE QUAD CTH K & SW QUAD CTH K &	CHOOL LN TH 39 METERY RD STH 39	_			0010 0010 0010 0010 0010	10+29 10+73 21+82 21+83 24+38	CTH K, RT CTH K, LT CTH K, LT CTH K, RT CTH K, RT TOTAL 0010	2 3 23 24 8 60	6 10 63 64 29	FLUME OUTLET INLET OUTLET FLUME		
											STOR	RM SEWER PIPI	SUMMARY									
					CA		FROM RUCTURE STR	TO	CATION	608.041 STORM SEWI REINFORCED CO CLASS I 12-INCI LF	ER PIPE ONCRETE V	608.04 STORM SEW REINFORCED (CLASS 24-IN	VER PIPE CONCRETE IV CH	608.2419 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 19X30-INCH	JOINT TIES* EACH	INLET	OUTLET ELEVATIO					
					_	0010 0010 0010 0010	2.1 - 2.2 - 2.3 - 2 -	2 C 2 C 2 C 1 C	TH K TH K TH K	37 40 25				 40	 3	891.32 893.45 891.11 890.44	891.03 891.03 891.03 890.33	0.0079 0.0600 0.0034 0.0030	_			
					_	0010 0010 0010 0010 0010 0010	3 - 4.1 - 4.4 -	3 C 4 C 4 C 4.2 C	TH K	13 24 11 60 8		 322 		 	 	887.18 887.18 884.18 860.45 860.62 860.40	886.18 886.18 858.71 859.86 860.32 860.32	0.0800 0.0428 0.0793 0.0562 0.0050 0.0100	_			
						0010 0010 0010 0010	4.2 - 4 - 5.1 -	4 C 5 C 6 C 6	TH K TH K TH K TH K TH K	31 11 260		 131 453		 59 99	 3 6	860.32 858.71 857.92 856.89	859.86 856.89 857.89 856.67	0.0150 0.0138 0.0030 0.0037				
						PIP				OF STRUCTURE, TO	NEAREST 1'. S	SLOPES AND EL	EVATIONS AR	E BASED ON ACTUAL PIPE	LENGTH BE	ETWEEN STRUCTUI	RE WALLS OR					
\vdash	PROJECT NO	O: 59	975-00-70		HW	Y: CTH K			COU	INTY: IOWA			М	ISCELLANEOUS QUA	NTITIES						SHEET	E

SANITARY MANHOLES

							•			
					611.0420	611.8110 ADJUSTING	611.8120.S COVER			
					RECONSTRUCTING MANHOLES	MANHOLE COVERS	PLATES TEMPORARY	EXISTING RIM	PROPOSED RIM	DIFF***
CATEGORY	STRUCTURE	STATION**	OFFSET**	LOCATION	EACH	EACH	EACH	ELEVATION	ELEVATION	FT
0020	SAN 1	13+08.28	8.69' RT	CTH K		1	1	907.79	907.63	-0.16
0020	SAN 2	14+72.27	8.13' RT	CTH K		1	1	907.62	906.76	-0.86
0020	SAN 3	17+94.68	9.79' RT	CTH K	1		1	878.47	879.80	1.33
0020	SAN 4	19+97.70	9.72' RT	CTH K	1		1	856.72	865.52	8.80
				TOTAL 0020	2	2	4			

^{*} ADDITIONAL QUANTITES SHOWN ELSEWHERE

STORM SEWER STRUCTURES

					522.2619 APRON ENDWALLS FOR CULVERT PIPE	611.0530	611.0612	611.0624	611.2004	611.2005	611.2006	611.3003	611.3004	611.3230	611.8120.S	650.4000			
					REINFORCED CONCRETE	MANHOLE	INLET	INLET	MANHOLES	MANHOLES	MANHOLES	INLETS	INLETS		COVER	CONSTRUCTION			
					HORIZONTAL ELLIPTICAL	COVERS	COVERS	COVERS	4-FT	5-FT	6-FT	3-FT	4-FT	INLETS	PLATES	STAKING	RIM	INVERT	DEPTH
		STATION	OFFSET		19X30-INCH	TYPE J	TYPE C	TYPE H	DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER	2X3-FT	TEMPORARY	STORM SEWER	***	****	****
CATEGORY	STRUCTURE	**	**	LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	ELEVATION	ELEVATION	FT
0010	1	10+78.10	29.50' LT	CTH K	1											1		890.33	
0010	2	11+10.00	6.00' LT	CTH K		1					1				1	1	896.15	890.44	4.74
0010	2.1	11+16.50	42.00' LT	CTH K				1						1	1	1	895.20	891.32	3.04
0010	2.2	11+49.00	16.50' LT	CTH K				1						1	1	1	898.31	893.45	4.03
0010	2.3	11+00.00	16.50' RT	CTH K				1						1	1	1	895.34	891.11	3.40
0010	3	16+57.00	6.00' LT	CTH K		1			1						1	1	891.87	884.18	6.70
0010	3.1	16+50.00	16.50' LT	CTH K				1						1	1	1	892.30	887.18	4.28
0010	3.2	16+50.00	16.50' RT	CTH K				1						1	1	1	892.90	887.18	4.88
0010	4	19+79.00	6.00' LT	CTH K		1			1						1	1	866.41	858.71	6.72
0010	4.1	19+79.00	16.50' LT	CTH K				1						1	1	1	864.87	860.45	3.59
0010	4.2	19+82.50	24.89' RT	CTH K				1					1		1	1	863.83	860.32	2.67
0010	4.3	19+75.57	28.77' RT	CTH K			1					1			1	1	863.76	860.23	2.28
0010	4.4	19+89.76	84.00' RT	CTH K				1						1	1	1	864.17	860.62	2.72
0010	5	21+10.00	6.00' LT	CTH K		1				1					1	1	862.66	856.89	4.80
0010	5.1	21+10.00	16.50' LT	CTH K				1						1	1	1	862.47	857.92	3.72
0010	6	21+56.77	29.63' RT	CTH K	1											1		856.67	
				TOTAL 0010	2	4	1	9	2	1	1	1	1	8	14	16			

^{*} ADDITIONAL QUANTITES SHOWN ELSEWHERE

COUNTY: IOWA Ε PROJECT NO: 5975-00-70 HWY: CTH K MISCELLANEOUS QUANTITIES SHEET PLOT DATE : 12/9/2024 2:58 PM PLOT BY: ERIK MEYER PLOT NAME : PLOT SCALE :

^{**}STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

^{***}FOR INFORMATIONAL PURPOSES ONLY. FIELD VERIFY

^{**}STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE.

^{***}RIM ELEV IS AT THE INLET COVER FLANGE LOCATION.

^{****}FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION OF THE LOWEST PIPE FLOW LINE.

^{*****}DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT.

		ES EXCLUDE WORK TO BE RE FUNDED PROJECT.			FINISHING IT	EMS													
	CATEGORY	STATION TO STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL					SILT FENCE	628.1504	628.1520 SILT FENCE	
	0010 0010 0010 0010 0010 0010 0010 001	10+23 - 11+72 10+25 - 10+82 11+18 - 11+91 11+84 - 14+97 12+26 - 13+39 13+51 - 16+78 15+12 - 19+87 17+08 - 17+50 17+58 - 23+59	CTH K, RT CTH K, LT CTH K, LT CTH K, RT CTH K, LT	140 50 70 590 140 570 410 70 1340	140 50 70 590 140 570 370 70 1340	 50	0.1 0.1 0.1 0.5 0.1 0.4 0.4 0.1 1.0	 5 74	11 5 34 8 32 31 5	7 3 3 21 5 20 19 3 45	4 2 2 13 3 12 12 12 2 28		CATEGOI 0010 0010 0010 0010 0010 0010 0010 0	10+14 11+31 12+26 13+51 17+10 17+59 20+23	TO STATION - 10+75 - 11+89 - 13+37 - 16+67 - 17+48 - 21+47 - 21+57	CTH K, LT	125 60 110 335 50 400 220	375 180 330 1,005 150 1,200 660	-
	0010 0010 0010 0010 0010 0010 0010	20+22 - 24+57 23+61 - 24+75 60+55 "S" - 61+05 "S" 60+55 "S" - 61+05 "S" 70+40 "C" - 71+35 "C" 70+40 "C" - 71+35 "C"	CTH K, RT CTH K, LT SCHOOL LN, RT SCHOOL LN, LT CEMETERY RD, RT CEMETERY RD, LT UNDISTRIBUTED TOTAL 0010	810 180 80 60 40 70 1180 5,800	810 180 80 60 40 70 1170 5,750		0.8 0.1 0.1 0.1 0.1 0.1 1.4 5.5	59 11 6 9 36 200	 4 5 35 170	36 7 4 3 3 5 —46 230	22 4 3 2 2 4 30 145		0010 0010 0010 0010 0010	22+05 22+06 23+60 24+29	- 23+46 - 24+07 - 23+74 - 24+47	CTH K, LT CTH K, RT CTH K, LT CTH K, RT UNDISTRIBUTEI TOTAL 0010	150 205 25 25 25 D 425 2,130	450 615 75 75 5,115	-
			EROSION CONTROL I	Mobilization							<u>C</u>	ATEGORY STATION	AI	LET PROTECTIO 628.7005 ILET PROTECTIO TYPE A EACH	<u>N</u> 628.70 DN INLET PROT TYPE EACH	ECTION C	MARKS		
		CATEGORY LOCATI 0010 PROJE TOTAL C	CT <u>6</u>	TIONS MOI ONTROL	628.1910 BILIZATIONS EM EROSION CON EACH 4 4	IERGENCY TROL					_	0010 11+00 0010 11+16 0010 11+49 0010 16+50 0010 16+50 0010 19+75 0010 19+79 0010 21+10 0010 61+03 "S" 0010 70+84 "C"		1	1 1 1 1 1 1 1 1 1 1 1 1 2 3	EXIST PROPO PROPO PROPO PROPO PROPO PROPO PROPO PROPO	OSED INLET ING INLET OSED INLET		
		TEMPORARY DITCH	CHECKS						CULVERT PIPE	E CHECKS 628.7555						MARKERS CULVERT	END		
	0010 0010 0010 0010 0010	STATION TO STATION 17+00 - 19+75 17+01 - 19+76 - 112+42	LOCATION CTH K, RT CTH K, RT CTH K, RT STH 39, RT	8.7504 LF 5 180 181 15 381		_	0010 0010 0010 0010	23+75 23+75 U	CTH K, LT CTH K, LT CTH K, RT CTH K, LT CTH K, LT CTH K, LT OTH K, LT NDISTRIBUTED TOTAL 0010	2 2 2 2 4 4	REMAR EXISTING CU PROPOSED C EXISTING CU EXISTING CU PROPOSED CO	JLVERT CULVERT JLVERT JLVERT		<u>(</u>	0010 2	TATION LOCA 1+75 CTH 1+90 CTH TOTAL	TION EA H K H K	.5200 .CH 1 1 2	
PROJECT NO		-00-70 2022\22220 CTH K - HOLLANDALE\0-C/	HWY: (COUNTY:		PLOT DATE :	12/9/2024 2:58 PM		LANEOUS QUAN		F·		PLOT SCALE : 1" =		SHEET	WISDOT/CADDS SHEET 42

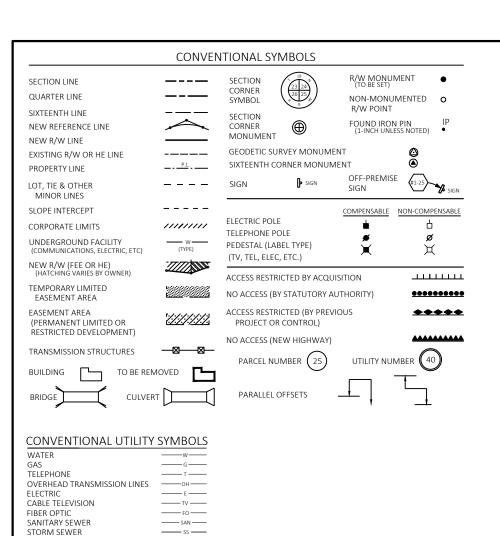
G:\00-PROJECT FILES LAYOUT NAME - 04

SIGNING

CATEGORY	SIGN #	STATION	I OCATION	SIGN CODE	SIGN DESCRIPTION	634.0614 POSTS WOOD 4X6-INCH X 14-FT FACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT FACH	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	638.2102 MOVING SIGNS TYPE II FACH	638.2602 REMOVING SIGNS TYPE II FACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
CATEGORI	31011#	STATION	LOCATION	3IGIN CODE	SIGN DESCRIPTION	LACIT	LACIT	31	JI .	LACIT	LACIT	LACIT	ILIVIANKS
0010	R01-01	61+10 "S"	SCHOOL LN, RT	R1-1	STOP						1	1	
0010	01-01	61+10 "S"	SCHOOL LN, RT	R1-1	STOP	1		5.18					
0010	R01-02	10+98	CTH K, RT	R2-1	SPEED LIMIT 25 MPH						1	1	
0010	01-02	10+98	CTH K, RT	R2-1	SPEED LIMIT 25 MPH		1	5.00					
0010	M01-03	10+98	CTH K, RT		NO SOLICITATING NO PEDDLERS WITHOUT PERMIT					1			INSTALLED ON SAME POST AS 01-02
0010	R01-04	14+64	CTH K, LT	W1-2R	ROAD CURVES RIGHT						1	1	
0010	R01-05	14+64	CTH K, LT	W13-1	35 MPH						1		
0010	01-04	14+64	CTH K, LT	W1-2R	ROAD CURVES RIGHT		1		6.25				
0010	01-05	14+64	CTH K, LT	W13-1	35 MPH				2.25				INSTALLED ON SAME POST AS 01-04
0010	R01-06	16+52	CTH K, RT	W3-1	STOP AHEAD						1	1	
0010	01-06	16+52	CTH K, RT	J1-1	JUNCTION, STH ROUTE MARKER (39)		1	6.50					
0010	M01-07	70+32 "C"	CEMETERY RD, RT	M1-94	SCHOOL RD					1			INSTALLED ON SAME POST AS 01-09
0010	M01-08	70+32 "C"	CEMETERY RD, RT	M1-94	CEMETERY RD					1			INSTALLED ON SAME POST AS 01-09
0010	01-09	70+32 "C"	CEMETERY RD, RT	W14-1	DEAD END		1		6.25				
0010	R01-09	70+32 "C"	CEMETERY RD, RT	W14-1	DEAD END						1	1	
0010	R01-10	70+38 "C"	CEMETERY RD, LT	R1-1	STOP						1	1	
0010	01-10	70+38 "C"	CEMETERY RD, LT	R1-1	STOP	1		5.18					
0010	R01-11	20+66	CTH K, RT	J1-1	JUNCTION, STH ROUTE MARKER (39)						1	1	
0010	01-11	20+66	CTH K, RT	W3-1	STOP AHEAD		1		9.00				
0010	R01-12	21+71	CTH K, LT	W5-52L	BRIDGE HASH MARKS						1	1	_
0010	R01-13	21+71	CTH K, RT	W5-52R	BRIDGE HASH MARKS						1	1	
0010	R01-14	21+87	CTH K, LT	W5-52R	BRIDGE HASH MARKS						1	1	
0010	R01-15	21+87	CTH K, RT	W5-52L	BRIDGE HASH MARKS						1	1	
0010	02-01	23+50	CTH K, LT	R2-1	SPEED LIMIT 25 MPH	1		5.00					
0010	R02-01	23+50	CTH K, LT	R2-1	SPEED LIMIT 25 MPH						1	1	
0010	02-02	24+24	CTH K, RT	R1-1	STOP	1		5.18					
0010	R02-02	24+34	CTH K, RT	R1-1	STOP						1	1	
0010	02-03	24+24	CTH K, RT	J13-2	COUNTY ROUTE MARKER (K), ARROW (LEFT), STH ROUTE MARKER (39), ARROW (LEFT/RIGHT)		2	15.00					
0010	R02-03	24+34	CTH K, RT	J13-2	COUNTY ROUTE MARKER (K), ARROW (LEFT), STH ROUTE MARKER (39), ARROW (LEFT/RIGHT)						1	2	
0010	M02-04	24+50	CTH K, LT	M1-94	SCHOOL RD					1			
0010	R03-02	107+46 "39"	STH 39, RT	S1-1	SCHOOL ZONE						1	1	
0010	R03-03	107+46 "39"	STH 39, RT	S16-9P	AHEAD COUNTY POUTE MARKER (K), ARROYA (RICHT)			7.50			1		
0010	03-16	110+61 "39"	STH 39, RT	J12-1	COUNTY ROUTE MARKER (K), ARROW (RIGHT) COUNTY ROUTE MARKER (K), ARROW (RIGHT)	1		7.50					
0010	R03-16	110+61 "39"	STH 39, RT	J12-1							1	1	
0010	R03-11	110+61 "39"	STH 39, RT	S1-1	SCHOOL ZONE						1	1	
0010	R03-17	111+57 "39"	STH 39, LT STH 39, LT	S1-1	SCHOOL ZONE DOWN ARROW (LEFT)						1	1	
0010	R03-18	111+57 "39"	311133, LI	S16-7L	,	5		54.54	23.75		21	19	
					TOTAL 0010	5	/	54.54	23./5	4	21	19	

COUNTY: IOWA SHEET E HWY: CTH K PROJECT NO: 5975-00-70 MISCELLANEOUS QUANTITIES

MISCELLANEOUS O	QUANTITIES EXCLUDE WORK TO BE												
	R FUTURE FUNDED PROJECT.			TRAFF	FIC CONTROL								
			643.0	300 643.0420	643.0705	643.0900	643.0920	643.1050	643.5000				
		<u>CATEGORY</u> LOCATION	TRAF CONTI DURATION DRUM DAY NO	ROL BARRICADES MS TYPE III	TRAFFIC CONTROL WARNING LIGHTS TYPE A NO DAY	TRAFFIC CONTROL SIGNS NO DAY	TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	TRAFFIC CONTROL SIGNS PCMS NO DAY	TRAFFIC CONTROL EACH				
-		0010 CLOSURE 0010 DETOUR 0010 UNDISTRIBUTED 0010 PROJECT	70 5 7 <u>10</u>	18 1,260 2 140 350 5 350 70 420 25 1,750	36 2,520 4 280 15 1,050 10 70 65 3,920	13 910 135 9,450 28 1,960 176 12,320	3 2 5	 2 14 2 14					
		PLACE TRAFFIC CONTROL IN ACCO RESTRICTION." PLACEMENT SUBJECT TO ENGINE		SARRICADES AND SIGNS	FOR MAINLINE, DETOUI	R, ON RAMP, OFF R	AMP CLOSURES AND) ADVANCED WID	DTH				
	<u>PAVEM</u>	MENT MARKING						<u>CON</u>	STRUCTION STAKING	6			
	CATEGORY STATION TO STATION LO	646.1020 646.6120 MARKING MARKING LINE STOP LINE EPOXY EPOXY 4-INCH 18-INCH DCATION LF LF	REMARKS		<u>C</u> ATE	gory station	TO STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 01. 5975-00-70 EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	
	0010 10+25 - 10+66 CT 0010 10+25 - 10+35 CT 0010 20+38 - 24+20 CT 0010 - 24+61 -	CTH K 2,872 CTH K, LT 41 W CTH K, RT 1 W	OUBLE YELLOW CENTERLINE /HITE EDGELINE /HITE EDGELINE /HITE EDGELINE STOP LINE		00 00 00)10 70+40 "C'	- 61+05 "S" - 71+35 "C" - 1+28 "SE"	CTH K SCHOOL LN CEMETERY RD STH 39 PROJECT TOTAL 0010	1,447 50 95 118 1,710	1,447 50 95 118 1,710		1,447 50 95 118 1,710	
	SAWING			ADJUS	TING WATER VALVES								
	690.0 SAWI ASPH CATEGORY STATION LOCATION LF 0010 10+25 CTH K 23 0010 11+78 CTH K, RT 12	/ING HALT F REMARKS 3 BOP 2 DRIVEWAY		CATEGORY STATION 0020 17+76 0020 17+77 0020 17+79	LOCATION 24.6' LT 17.6' LT 20.2' LT	SPV.0060.02 <u>EACH</u> 1 1 1			<u>CATEG</u> 1	ORY STATION 0 12+86	LOCATION CHT K, LT	SPV.0060.03 EACH 1	
	0010 15+04 CTH K, RT 15 0010 16+96 CTH K, LT 31 0010 24+72 CTH K 18 0010 60+55 "S" SCHOOL LN 21 0010 71+35 "C" CEMETERY RD 20 TOTAL 0010 316	1 DRIVEWAY 88 <u>EOP</u> 1 EOP 0 EOP		0020 20+04 0020 20+04 0020 24+20 0020 24+41	26.1' RT 31.7' RT 6.6' RT 11.2' RT TOTAL 0020	1 1 1 1 7			002i 002i		CTH K, LT CTH K, LT TOTAL 0020	1 1 3	
PROJECT NO:	5975-00-70 HW DJECT FILES\2022\22220 CTH K - HOLLANDALE\0-CAD\SHEETS\030201_M	WY: CTH K	COUNTY: IO		M 12/9/2024 2:58 PM	ISCELLANEOUS	S QUANTITIES ERIK MEYER	PLOT NAME :			1" = 1'	SHEET	E



CONVENTIONAL ABBREVIATIONS

ELECTRIC TOWER

POINT OF CURVATURE

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT	RDE
CERTIFIED SURVEY MAP	CSM	EASEMENT	
CONCRETE	CONC	RIGHT	RT
COUNTY	CO	RIGHT OF WAY	R/W
COUNTY TRUNK HIGHWAY	CTH	SECTION	SEC
DISTANCE	DIST	SEPTIC VENT	SEPV
CORNER	COR	SQUARE FEET	SF
OOCUMENT NUMBER	DOC	STATE TRUNK HIGHWAY	STH
ASEMENT	EASE	STATION	STA
XISTING	EX	TELEPHONE PEDESTAL	TP
SAS VALVE	GV	TEMPORARY LIMITED	TLE
GRID NORTH	GN	EASEMENT	
IIGHWAY EASEMENT	HE	TRANSPORTATION PROJECT PLAT	TPP
DENTIFICATION	ID	UNITED STATES HIGHWAY	USH
AND CONTRACT	LC	VOLUME	V
EFT	LT		
MONUMENT	MON	CURVE DATA ABBREVIA	ZIONS
IATIONAL GEODETIC SURVEY	NGS	LONG CHORD	LCH
IUMBER	NO	LONG CHORD BEARING	LCH
DUTLOT	OL	RADIUS	R
PAGE	P	DEGREE OF CURVE	D
OINT OF TANGENCY	PT	CENTRAL ANGLE	△/DELTA
PERMANENT LIMITED	PLE	LENGTH OF CURVE TANGENT	L T
EASEMENT		DIRECTION AHEAD	DA
OINT OF BEGINNING	POB	DIRECTION BACK	DB

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), IOWA COUNTY, NAD83 (2011)IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE IOWA COUNTY HIGHWAY DEPARTMENT.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE DETAIL PAGES.

EXISTING RIGHT OF WAY FOR CTH K IS BASED ON THE PLAT OF SURVEY BY ROBERT S. ARTHUR DATED OCTOBER 4, 1960, THE PLAT OF SURVEY BY KEITH DALSING DATED AUGUST 14, 2023, CERTIFIED SURVEY MAP 443 RECORDED AS DOCUMENT 192369 BY G.E. MILLER DATED JULY 20, 1993, CERTIFIED SURVEY MAP 349 RECORDED AS DOCUMENT 170432 BY JOHN M. HALVERSON DATED MAY 23, 1998, WARRANTY DEED 255662 RECORDED IN VOLUME 635 ON PG. 475 DATED OCTOBER 14, 2002, TRANSPORTATION PROJECT PLAT 5970-02-23 PAGE 4.01 BLAT B, PAGE 86 OF DOCUMENT 350601, TRANSPORTATION PROJECT PLAT 5970-00-71 PAGE 4.2 DATED APRIL 30, 1982, TRANSPORTATION PROJECT PLAT 5970-03-21 PAGE 4.35 DATED NOVEMBER 3, 2004, AND WIS. STATUTE 82.31 (2).

R/W PROJECT NUMBER
5975-00-01

FEDERAL PROJECT NUMBER
4.01

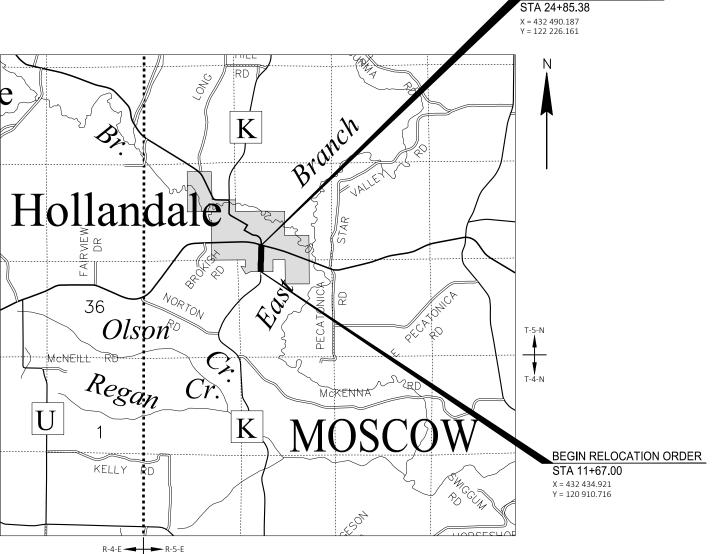
PLAT OF RIGHT OF WAY REQUIRED FOR

MOSCOW - HOLLANDALE (CTH K)
NORTON ROAD TO STH 39

CTH K IOWA

CONSTRUCTION PROJECT NUMBER
5975-00-70

END RELOCATION ORDER



REVISION DATE

10/01/2024

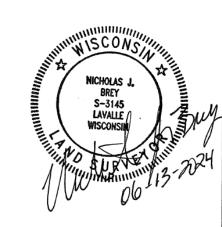
THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.



ORIGINAL PLANS PREPARED BY



619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53588 : (608) 588-7866 | F: (608) 588-7954 | www.westbrookeng.com



DATE: 6-13-24 Metal & Bungares (PROFESSIONAL UND SURVEYOR)

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.250 MILES

SCALE

PLOT NAME

SCHEDULE OF LANDS AND INTERESTS

OWNERS NAMES ARE SHOWN FOR REFERANCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE VILLAGE OF HOLLANDALE.

DARCEL NILI	PARCEL NUMBER SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	R/V	ACRES REQU	RED					
TARCLENO	TVIDEN	SHEET NOWIBER	O WHEN(S)	INVENEST REGORES	NEW	EXISTING	TOTAL	H.E. ACRES	T.L.E. ACRES	P.L.E. ACRES	FEE ACRES
1		4.03	MARK GILBERTSON	T.L.E.					0.012		
2		4.03	JOHN THRONSON & AMY THRONSON, HUSBAND & WIFE	T.L.E.					0.051		
3		4.03	VILLAGE OF HOLLANDALE	T.L.E.					0.005		
4		4.03	JEREMY J GORDON & JAIMIE L GORDON, HUSBAND & WIFE	H.E. & T.L.E.	0.042		0.042	0.042	0.015		
5		4.03	PECATONICA AREA SCHOOL DISTRICT	T.L.E.					0.070		
6		4.03	VILLAGE OF HOLLANDALE	T.L.E.					0.013		
7		4.03	ERIK M GILBERTSON & BRENDA E GILBERTSON, HUSBAND & WIFE	H.E. & T.L.E.	0.354		0.354	0.354	0.001		
8		4.03	MARK J GILBERTSON	H.E. & T.L.E.	0.051		0.051	0.051	0.008		
9		4.03	J & M SCHAUF, LLC	T.L.E.					0.013		
1 100		4.03	ALLIANT ENERGY((ELECTRIC))	RELEASE OF RIGHTS							
200		4.03	ALLIANT ENERGY (GAS)	RELEASE OF RIGHTS							[
300		4.03	FRONTIER COMMUNICATIONS (TELEPHONE)	RELEASE OF RIGHTS							
400		4.03	FRONTIER COMMUNICATIONS (FIBER OPTIC)	RELEASE OF RIGHTS							
500		4.03	ALLIANT ENERGY (FIBER OPTIC)	RELEASE OF RIGHTS							
600)	4.03	(MOUNT HOREB TELEPHONE COMPANY (MHTC)/(FIBER OPTIC)	RELEASE OF RIGHTS							
700	/	4.03	BUG TUSSEL (FIBER OPTIC)	RELEASE OF RIGHTS							

REVISION DATE 10/01/2024	DATE 06/13/2024	NOT TO SCALE	HWY: CTH K	STATE R/W PROJECT NUMBER	5975-00-01	PLAT SHEET 4.02
	GRID FACTOR N/A	NOT TO SCALE	COUNTY: IOWA	CONSTRUCTION PROJECT NUMBER	5975-00-70	PS&E SHEET E

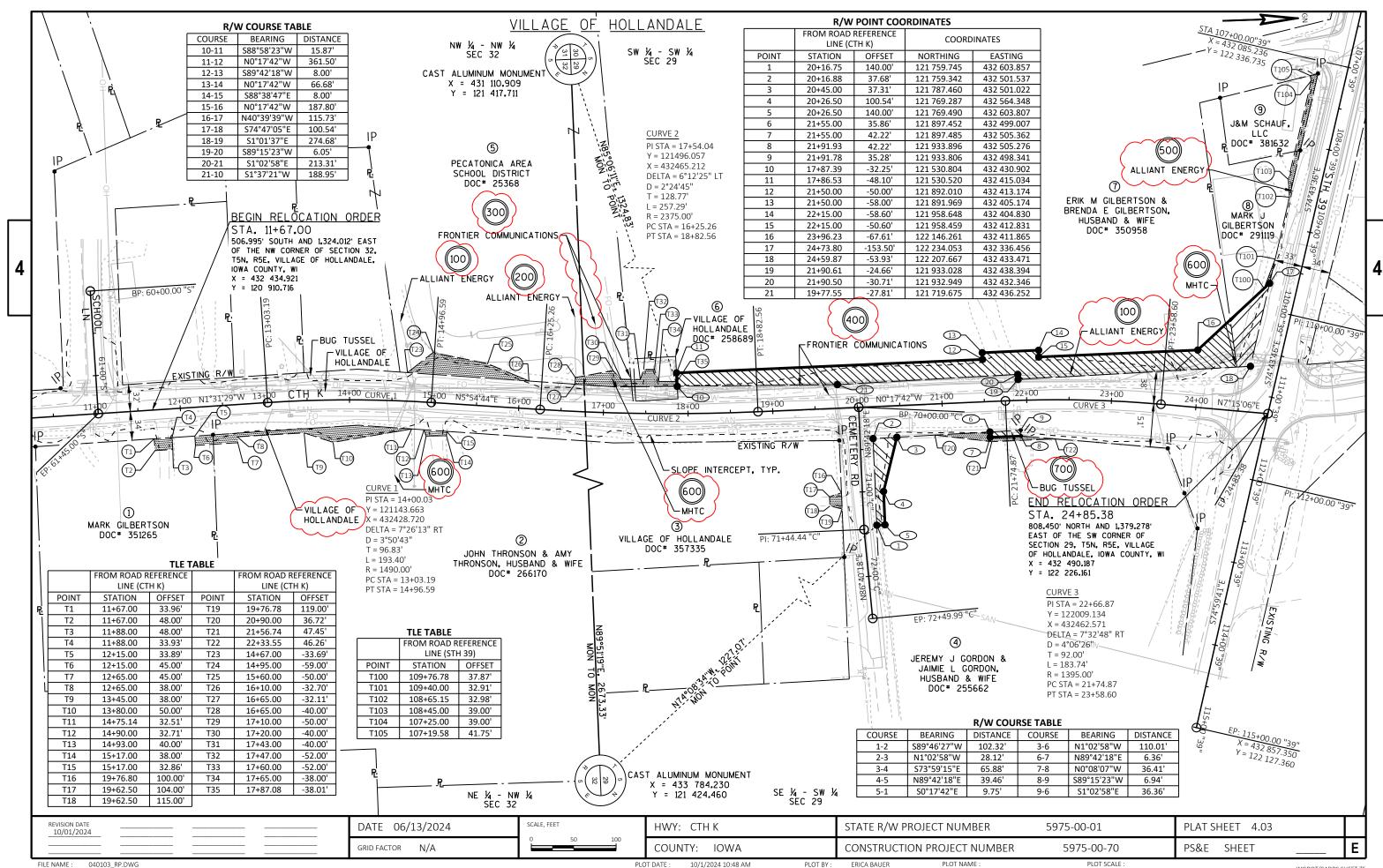
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PLOT DATE : 10/1/2024 10:49 AM

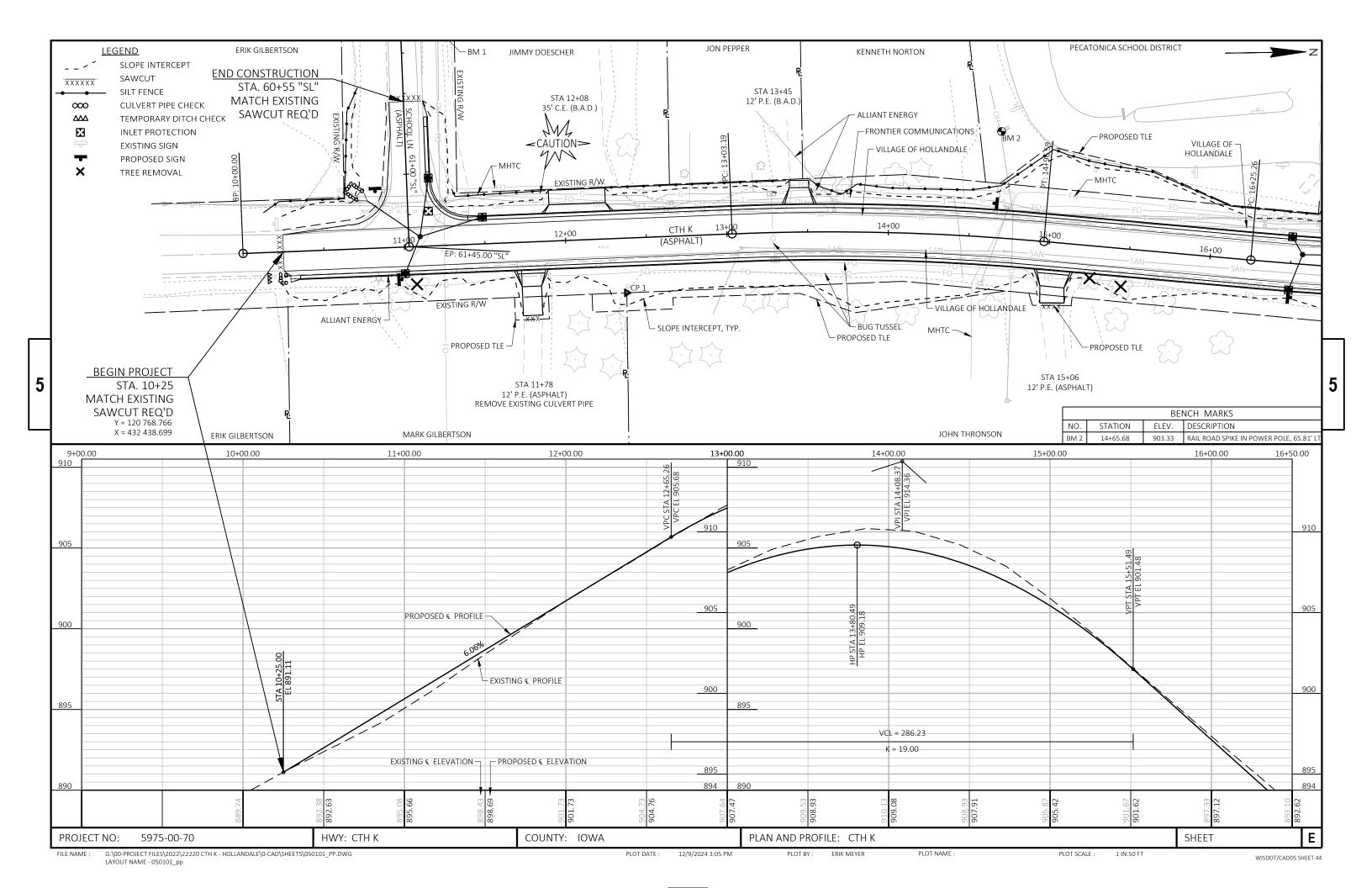
PLOT BY: ERICA BAUER

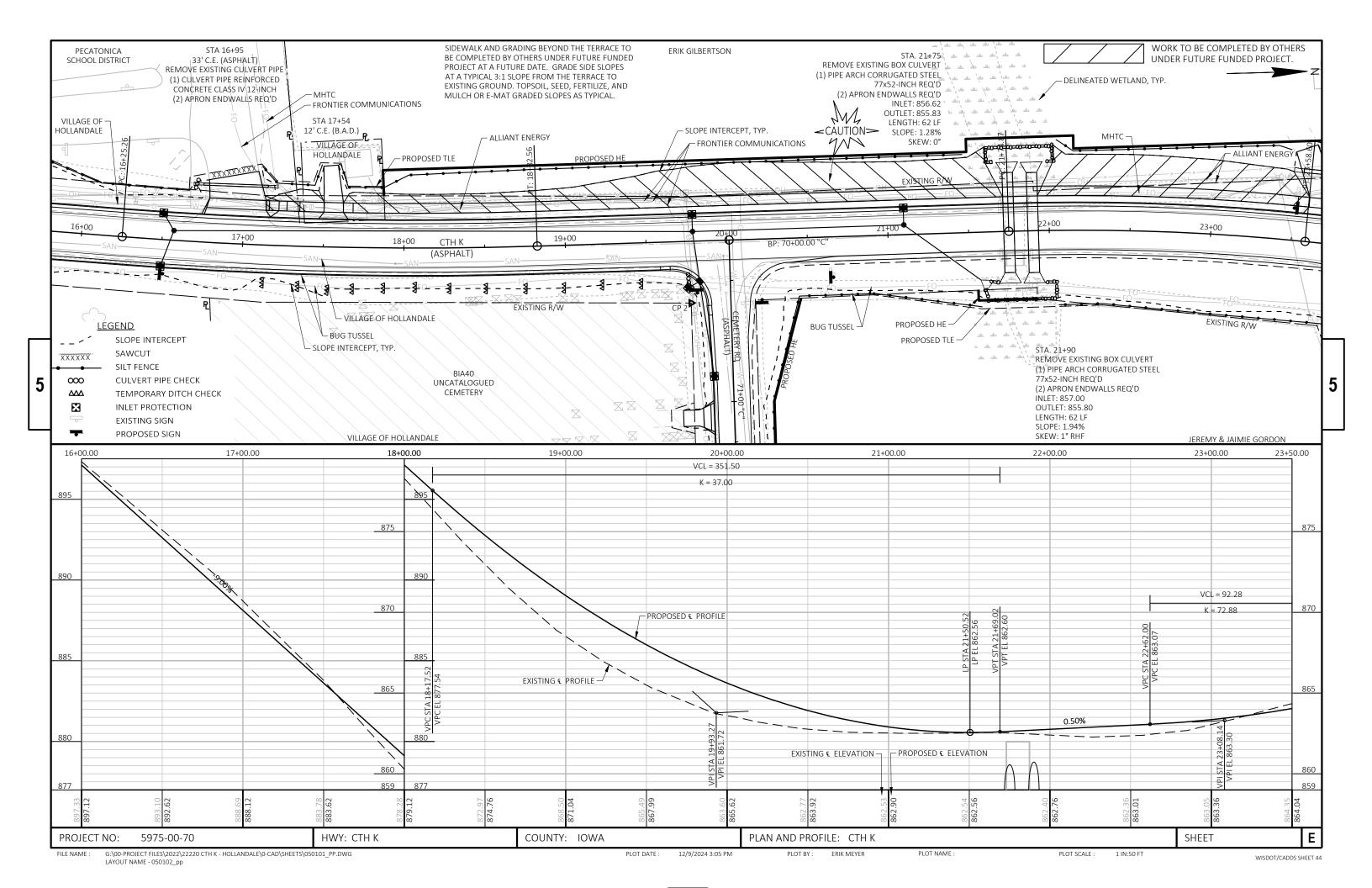
PLOT NAME

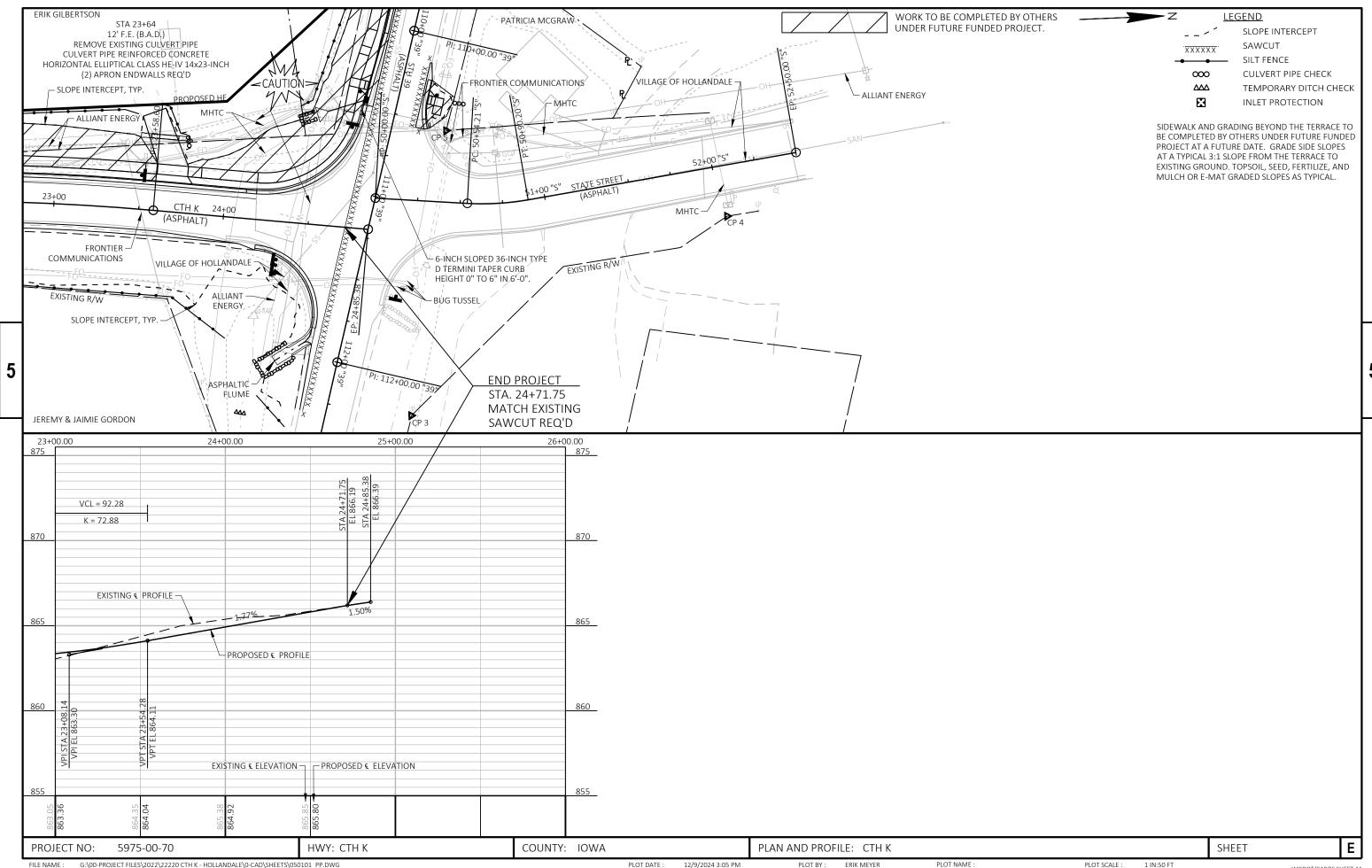
PLOT SCALE



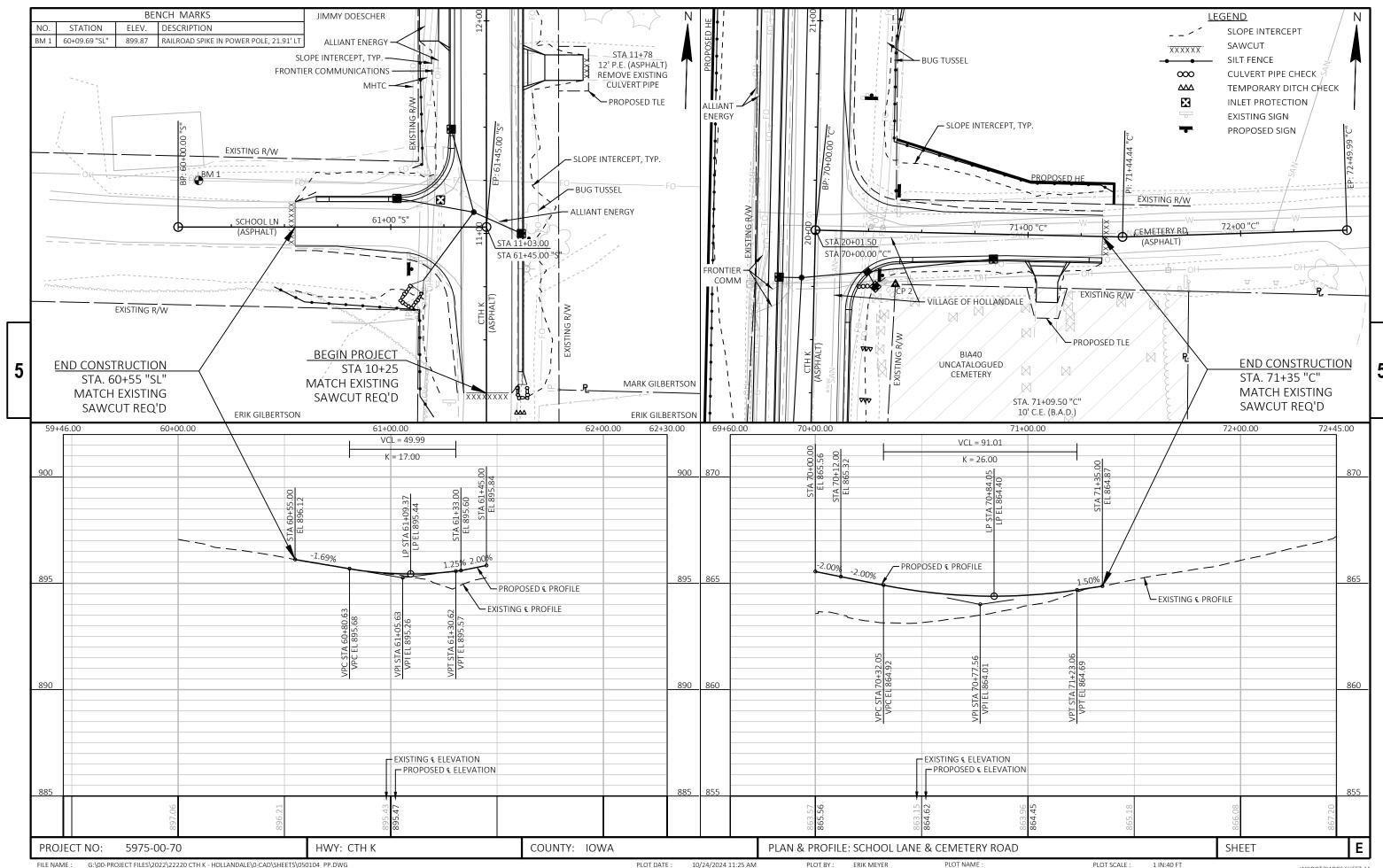
LAYOUT NAME - 040103 rp



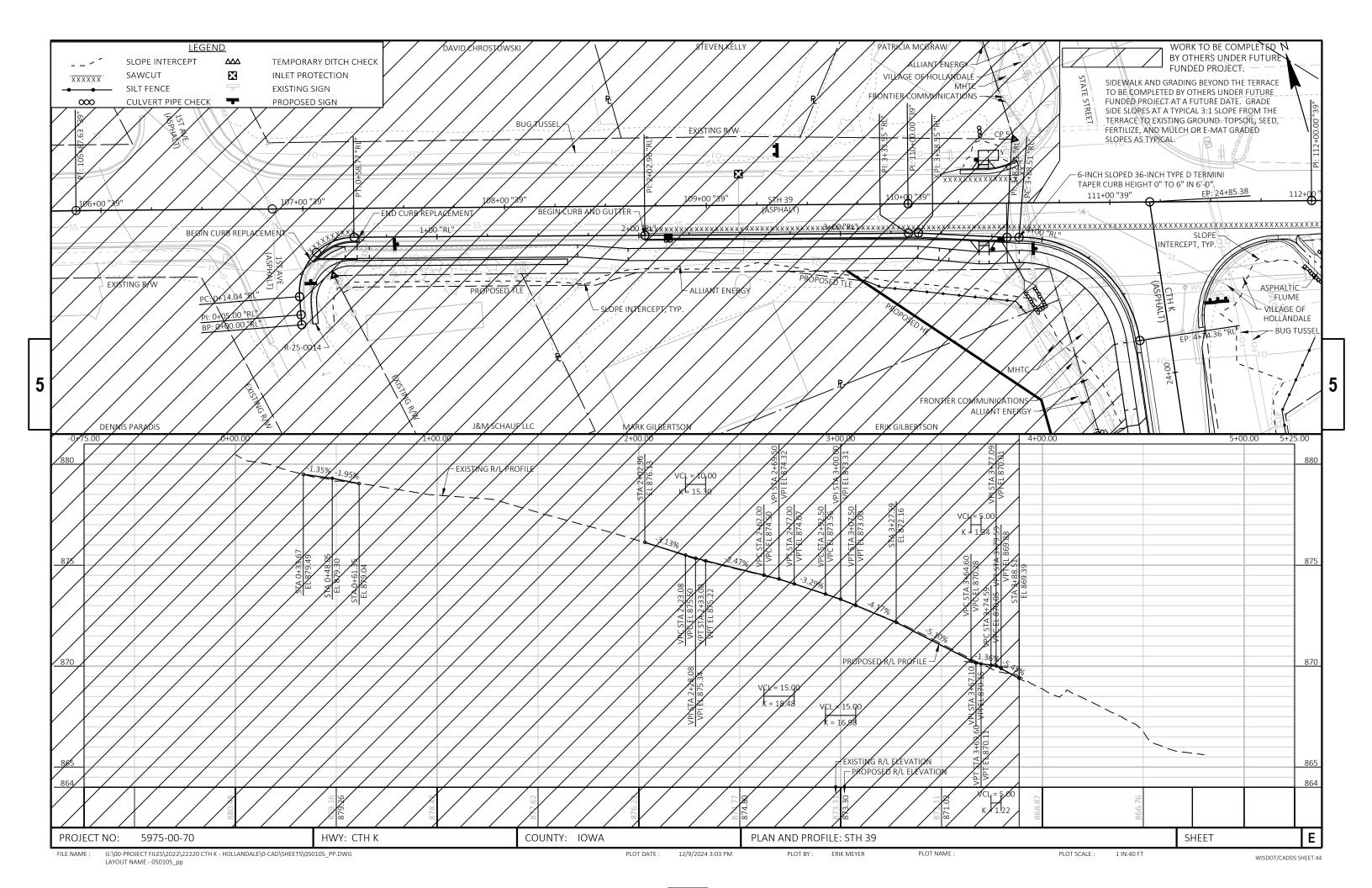




LAYOUT NAME - 05:0103_pp



FILE NAME : LAYOUT NAME - 050104_pp

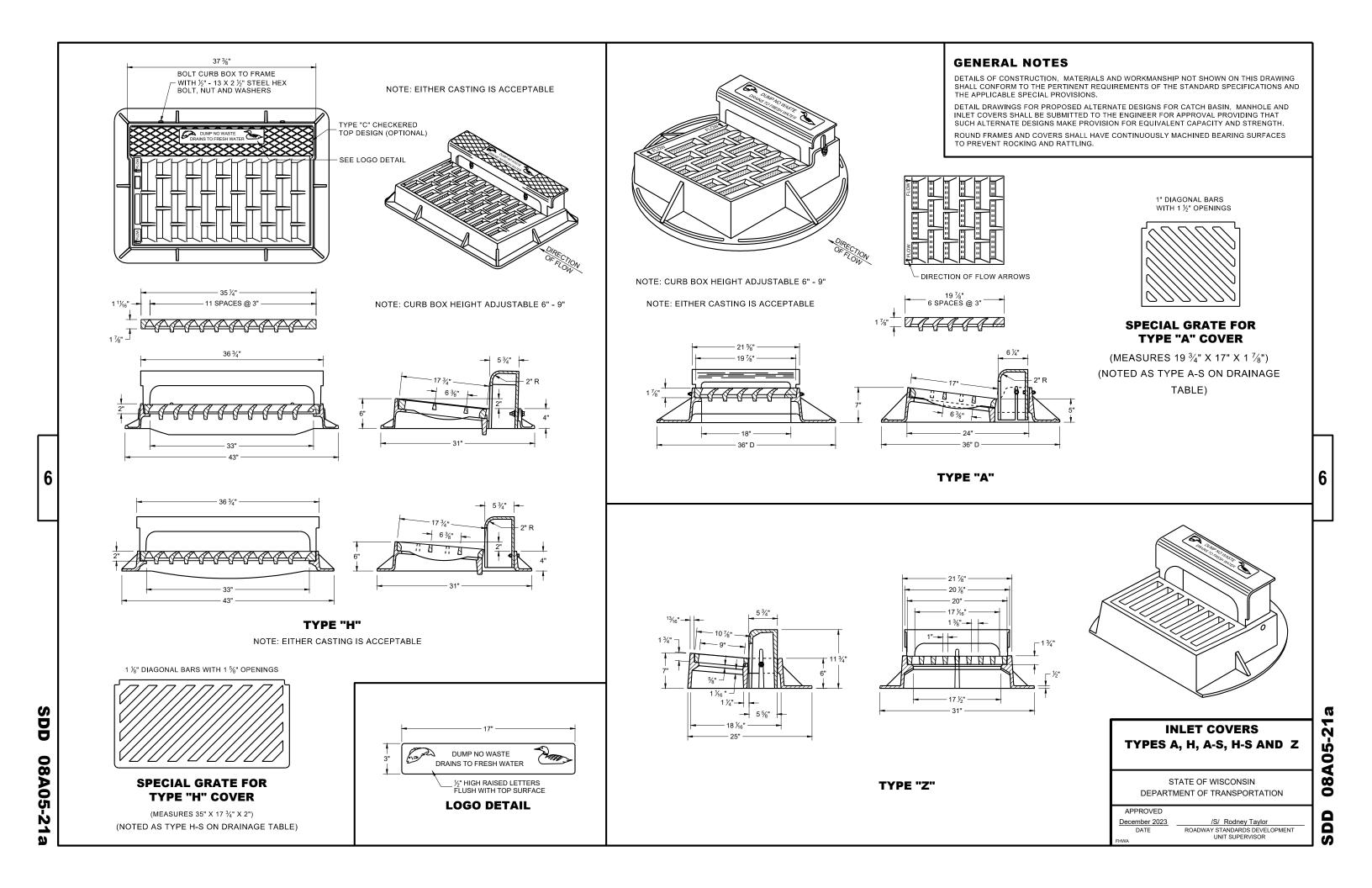


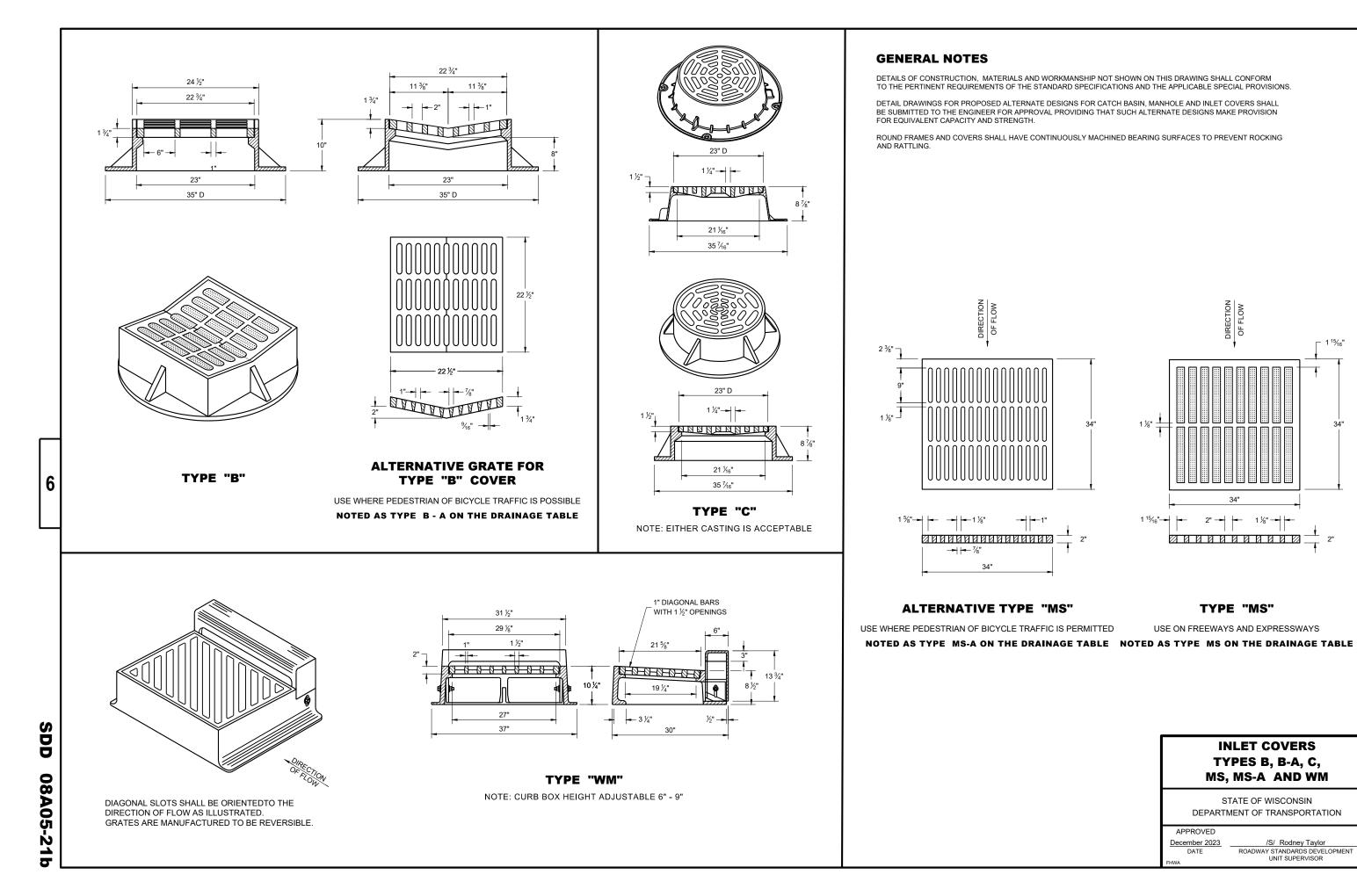
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Standard Detail Drawing List

08A05-21A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-21B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-21C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ & HM-GJ-S
08A05-21D	INLET COVERS TYPE V, V-B, & VV-B
08A05-21E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-03	INLETS 3-FT AND 4-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-04	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E05-06	TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS TYPICAL FOR 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02A 15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING

6





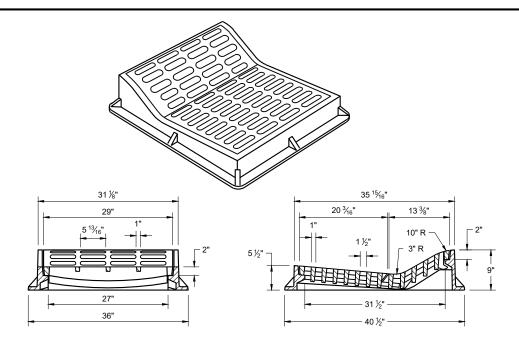
08A05-2

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GENERAL NOTES

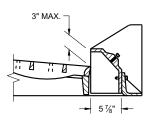
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

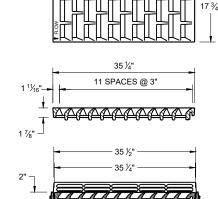


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

> NOTE: SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

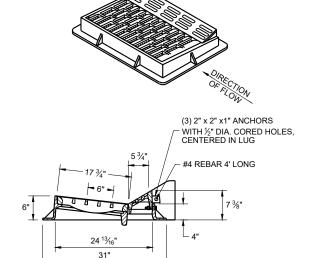
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



— DIRECTION OF FLOW ARROWS

TYPE "HM"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



NOTE: GRATE IS

REVERSIBLE

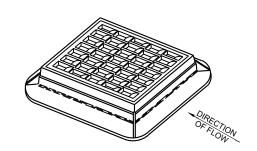
NOTE: SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ"

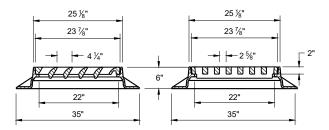
COVER.

1" X 5 1/8" SLOTS (TYPICAL)

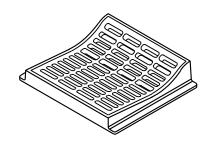
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.

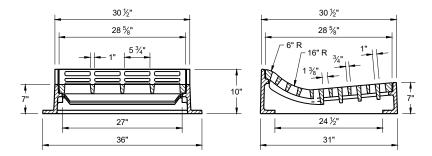
6





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

INLET COVERS TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

December 2023

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

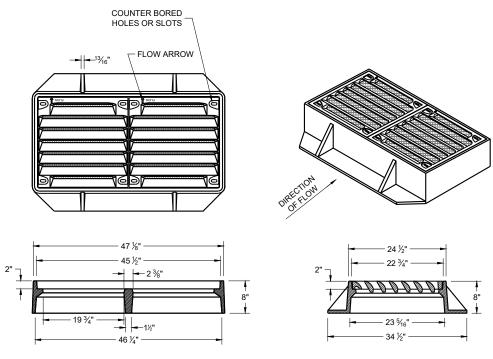
SDD 08A05-21c

08A05-

0 00

THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR

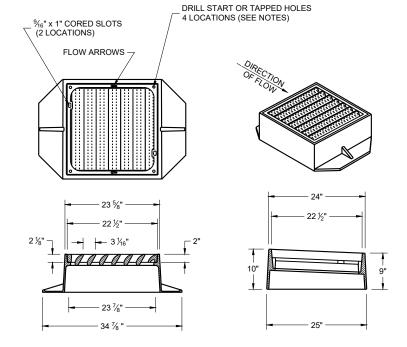


TYPE "VV-B"

ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY

CASTING MANUFACTURER

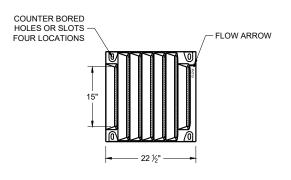
FRAME - CAST GRAY IRON ASTM A48 CLASS 35B %" DIA. $X\%_6$ " DRILL START IN 8 LOCATIONS GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



TYPE "V"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

TYPE V FRAME - CAST GRAY IRON ASTM A48 CLASS 40A ¾" DIA. X №" DRILL START IN 4 LOCATIONS GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



BOLT DOWN GRATE FOR TYPE "V" AND "VV-B" COVER

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER NOTED AS TYPE "V-B" OR "VV-B" (FOR DOUBLE GRATE) ON DRAINAGE TABLE

TAP $\c X_2$ " -13 HOLES IN FOUR LOCATIONS PER GRATE IN FRAME TO BOLT GRATE(S).

FRAME - CAST GRAY IRON ASTM A48 CLASS 40A

GRATE - CAST DUCTILE IRON ASTM A536, 55+KSI YIELD BOLTS - ½" -13 STAINLESS STEEL BOLTS WITH WASHERS TORQUE BOLTS TO MANUFACTURER SPECIFICATION DO NOT OVERTIGHTEN.

INLET COVERS TYPES V, V-B, AND VV-B

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

December 2023 /S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

SDD 08A05-21 **Q**

3A05-2

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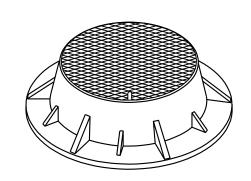
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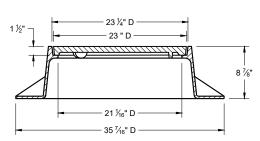
GENERAL NOTES

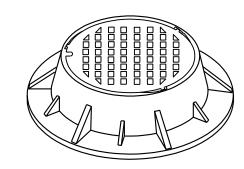
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

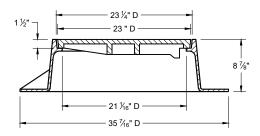
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

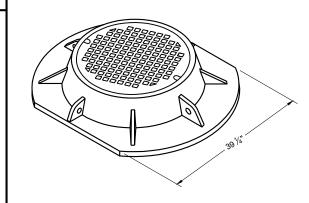
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

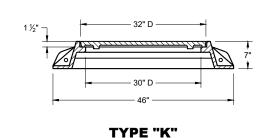


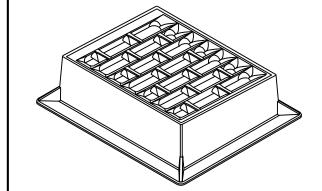


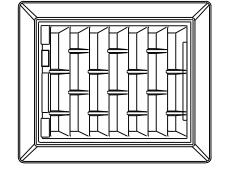


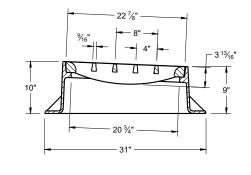


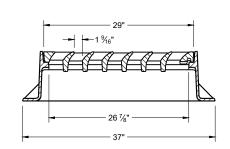




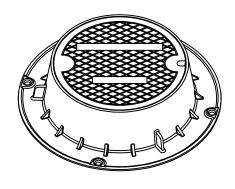


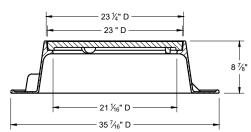






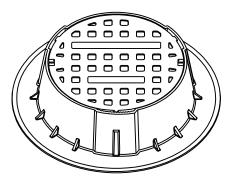
INLET COVER TYPE "BW"

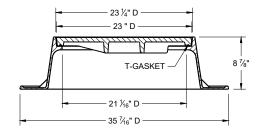




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

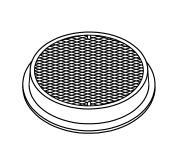


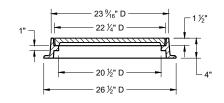


TYPE "J" SPECIAL

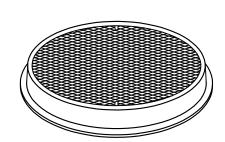
TYPE "B" NON-ROCKING SELF-SEAL LID (NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

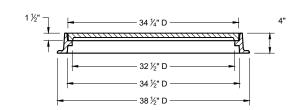
NOTE: EITHER CASTING IS ACCEPTABLE





TYPE "L"





TYPE "M"

INLET COVERS TYPES BW MANHOLE COVERS TYPES K, J, J-S, L, AND M

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

December 2023

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

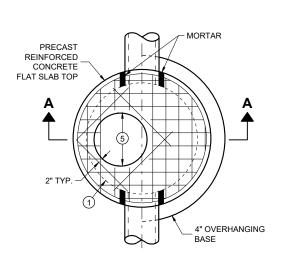
UNIT SUPERVISOR

SDD 08A05-21

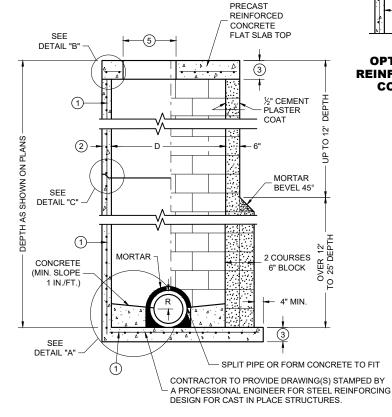
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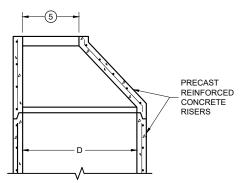
PLAN VIEW CIRCULAR OPENING



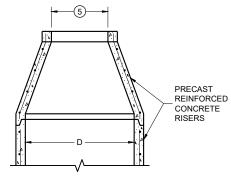
SECTION A - A

PRECAST REINFORCED **CONCRETE WITH MONOLITHIC BASE**

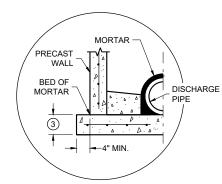
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE ①



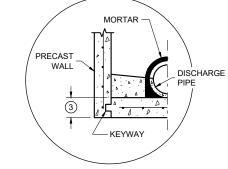
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



MANHOLE COVER OPENING MATRIX

PIPE MATRIX

SEPARATION (IN)

36/42 *

★A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES.

SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL

MINIMUM

PRECAST

FLAT SLAB TOP

AND BASE

THICKNESS

8

10

WALL

THICKNESS

MAXIMUM INSIDE PIPE DIAMETER

FOR TWO PIPES

MANHOLE COVER

OPENING

MANHOLE

SIZE

(DIA.)

3-FT

7-FT

SIZE (FT.) (5)

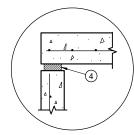
2 DIA

SEPARATION (IN)

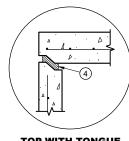
42

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B"



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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR LINDERGROLIND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT: MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS, AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

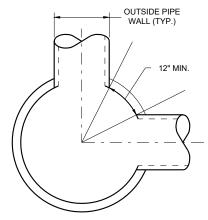
PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

- (1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO
- (2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES
- 3 SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.
- 4 JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.
- (5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION DETAIL "D"

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT **AND 10-FT DIAMETER**

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

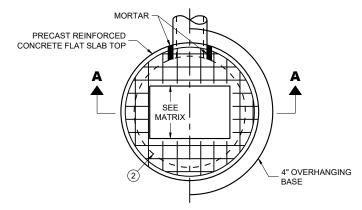
December 2023 ROADWAY STANDARDS DEVELOPMENT DATE UNIT SUPERVISOR

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

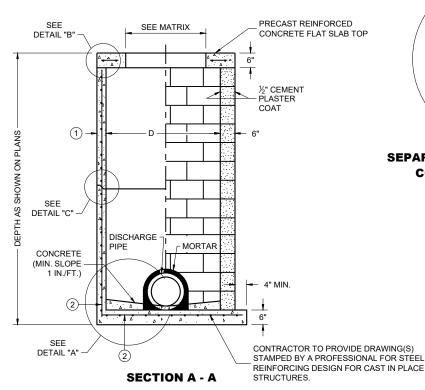
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PLAN VIEW CIRCULAR OPENING



PLAN VIEW RECTANGULAR OPENING



CONCRETE BLOCK WITH PRECAST REINFORCED **CAST IN PLACE OR CONCRETE WITH** PRECAST REINFORCED **MONOLITHIC BASE CONCRETE BASE** (2)

CIRCULAR INLETS WITH FLAT TOP

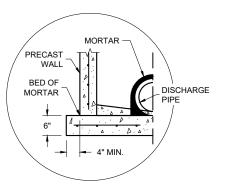
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CATCH BASIN COVER OPENING MATRIX

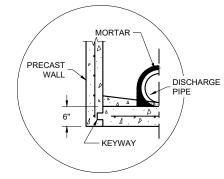
INLET	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	s	Т	٧	WM	Z
SIZE	OPENING SIZE (FT.)											
0.57	2 DIA.				х							Х
3-FT	2 X 2	Х	х					Х		Х		
	2 DIA.				х							Х
	2 X 2	Х	Х					Х		Х		
4-FT	2 X 2.5			Х				Х	Х	Х	Х	
	2 X 3						Х					
	2.5 X 3					Х						

PIPE MATRIX

INLET	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES					
OIZE.	180° SEPARATION (IN)	90° SEPARATION (IN)				
3-FT	15	12				
4-FT	24	18				

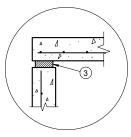


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

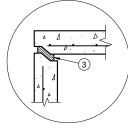


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT

DETAIL "B" DETAIL "C"

RISER WITH TONGUE

AND GROOVE JOINT

INLETS 3-FT AND 4-FT DIAMETER

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH. WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

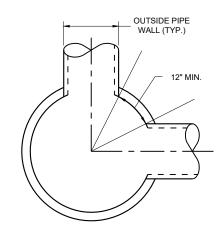
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

- (1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT DIAMETER AND 5 INCHES FOR 4-FT DIAMTER PRECAST INLETS.
- (2) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO
- (3) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.



MINIMUM HORIZONTAL PIPE **SEPARATION DETAIL "D"**

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

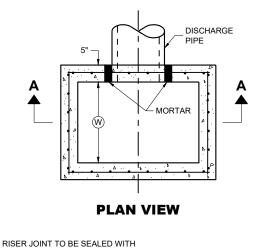
December 2023

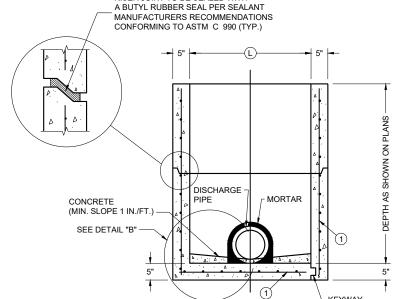
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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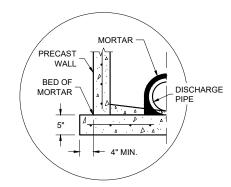




PRECAST REINFORCED
CONCRETE WITH
MONOLITHIC BASE

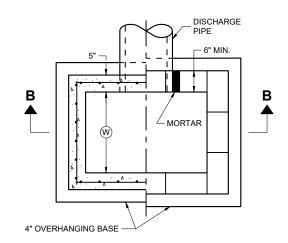
PRECAST REINFORCED
CONCRETE WITH
INTEGRAL BASE

SECTION A - A

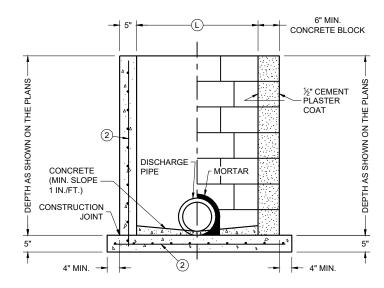


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



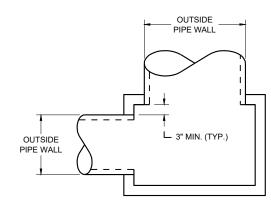
PLAN VIEW



CAST IN PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE 1

SECTION B - B



DETAIL "A"

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

- (1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 043
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

CATCH BASIN COVER MATRIX

	INLET WIDTH W (FT.)	_	LENGTH	INLET COVER TYPE									
		(W) (FT.)	(FT.)	ALL A'S	ALL B'S	BW	F	ALL H'S	S	Т	٧	WM	V V-B
	2 X 2-FT	2	2	Х	Х				Х				
	2 X 2.5-FT	2	2.5			х			Х	х	Х	х	
	2 X 3-FT	2	3					Х					
	2.5 X 3-FT	2.5	3				Х						
	2 X 3.5-FT	2	3.5										Х

PIPE MATRIX

	=									
	CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES								
		WIDTH (IN)	LENGTH (IN)							
	2 X 2-FT	12	12							
	2 X 2.5-FT	12	18							
	2 X 3-FT	12	24							
	2.5 X 3-FT	18	24							
	2 X 3.5-FT	12	30							

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

UNIT SUPERVISOR

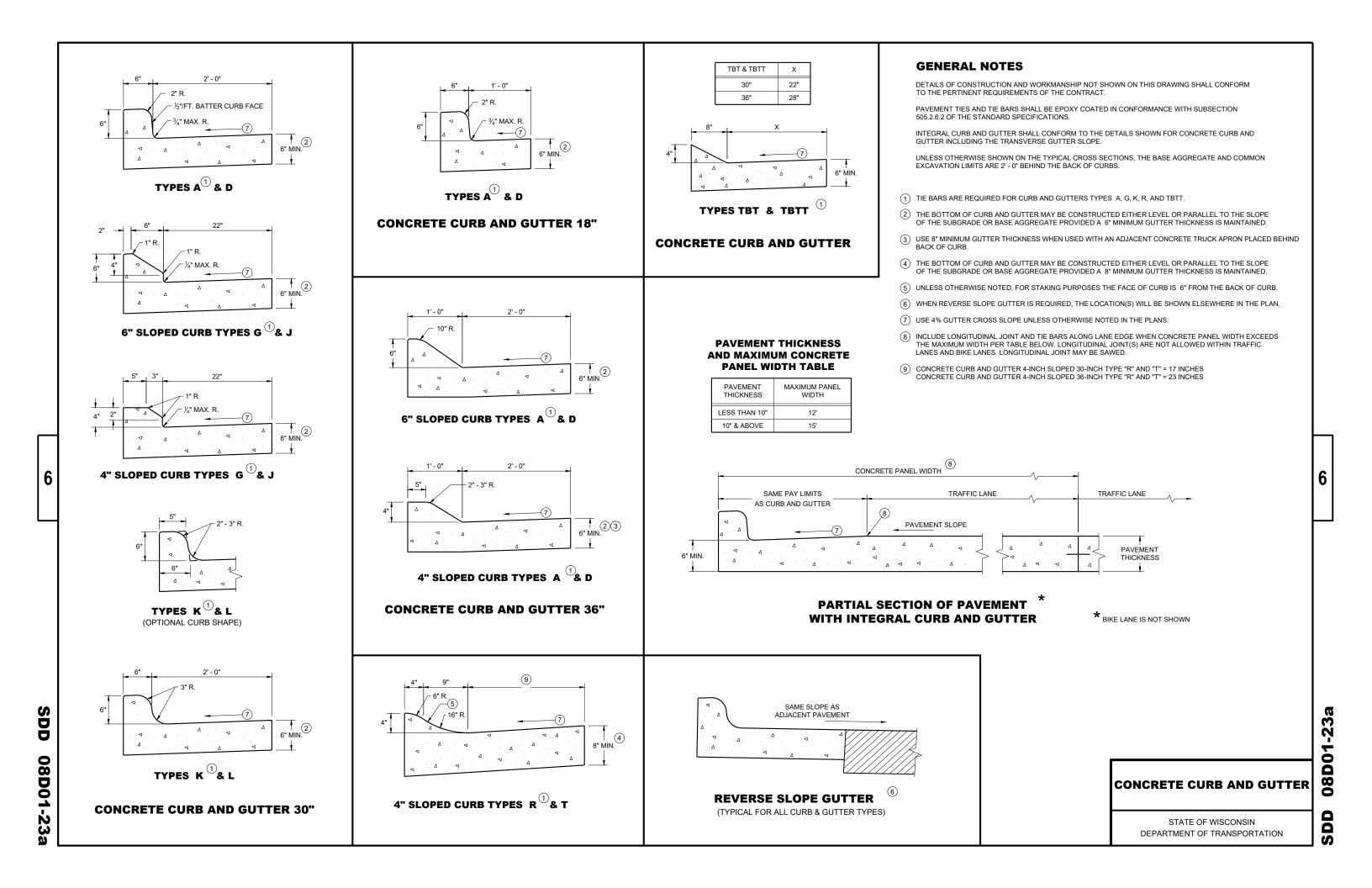
APPROVED

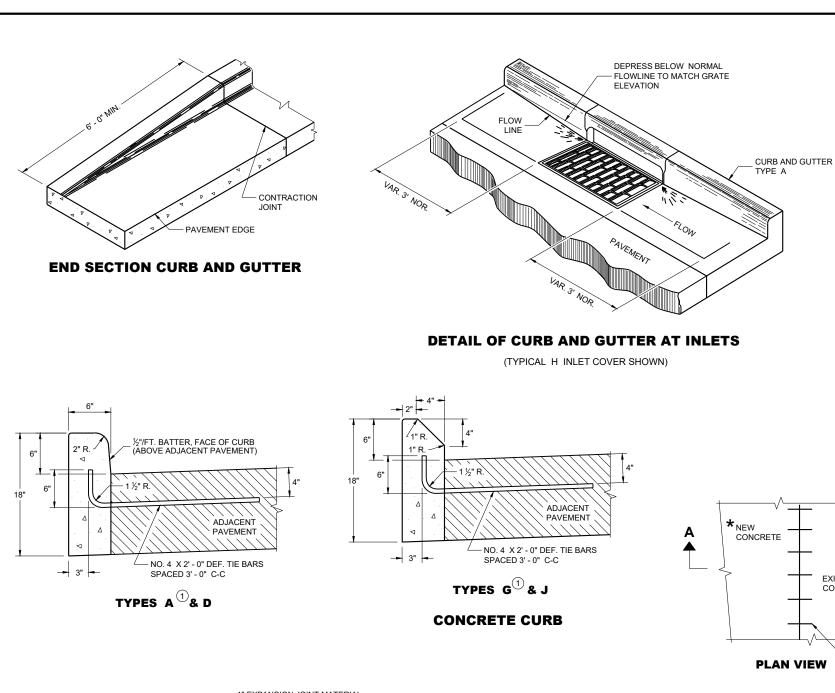
 December 2023
 /S/ Rodney Taylor

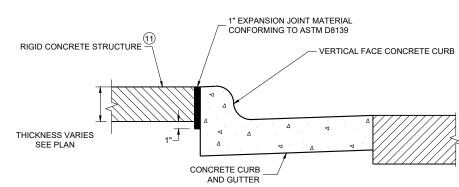
 DATE
 ROADWAY STANDARDS DEVELOPMENT

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DD 08C07-0







EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE 119

CONCRETE **EXISTING** CONCRETE * NEW CURB AND GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE. **PLAN VIEW** NO. 6 TIE BARS SPACED 2' - 6" C-C, INSTALLED PERPENDICULAR TO THE CONCRETE MAXIMUM DRILL HOLE SIZE IS 1/8" GREATER THAN TIE BAR DIAMETER 1/2 THICKNESS OF_ NEW CONCRETE **EXISTING**

TIE BARS DRILLED INTO EXISTING PAVEMENT

SECTION A - A

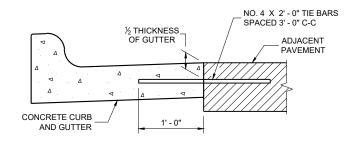
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

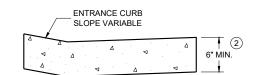
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 10 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.
- (1) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.



TYPICAL TIE BAR LOCATION



DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

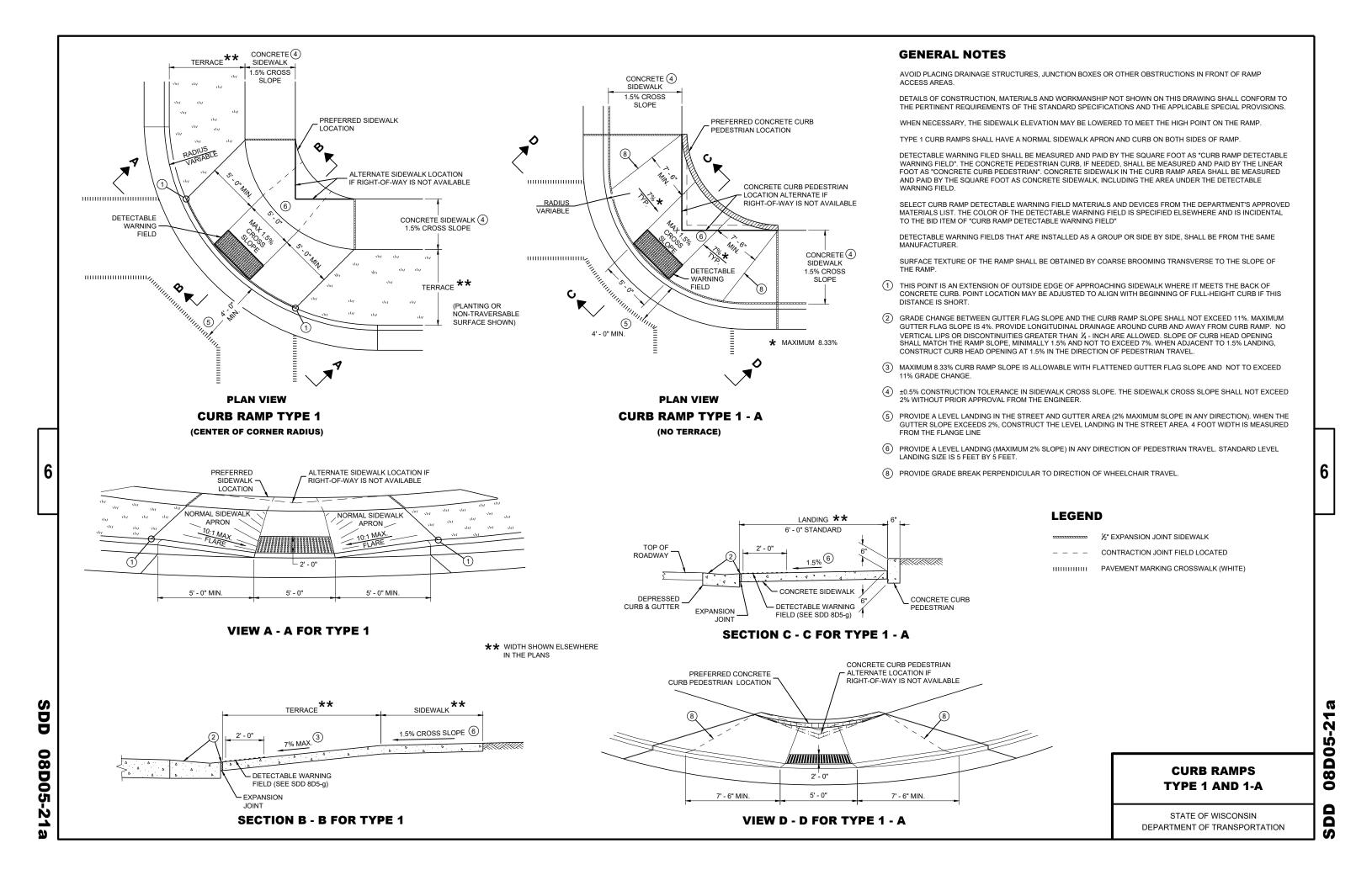
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

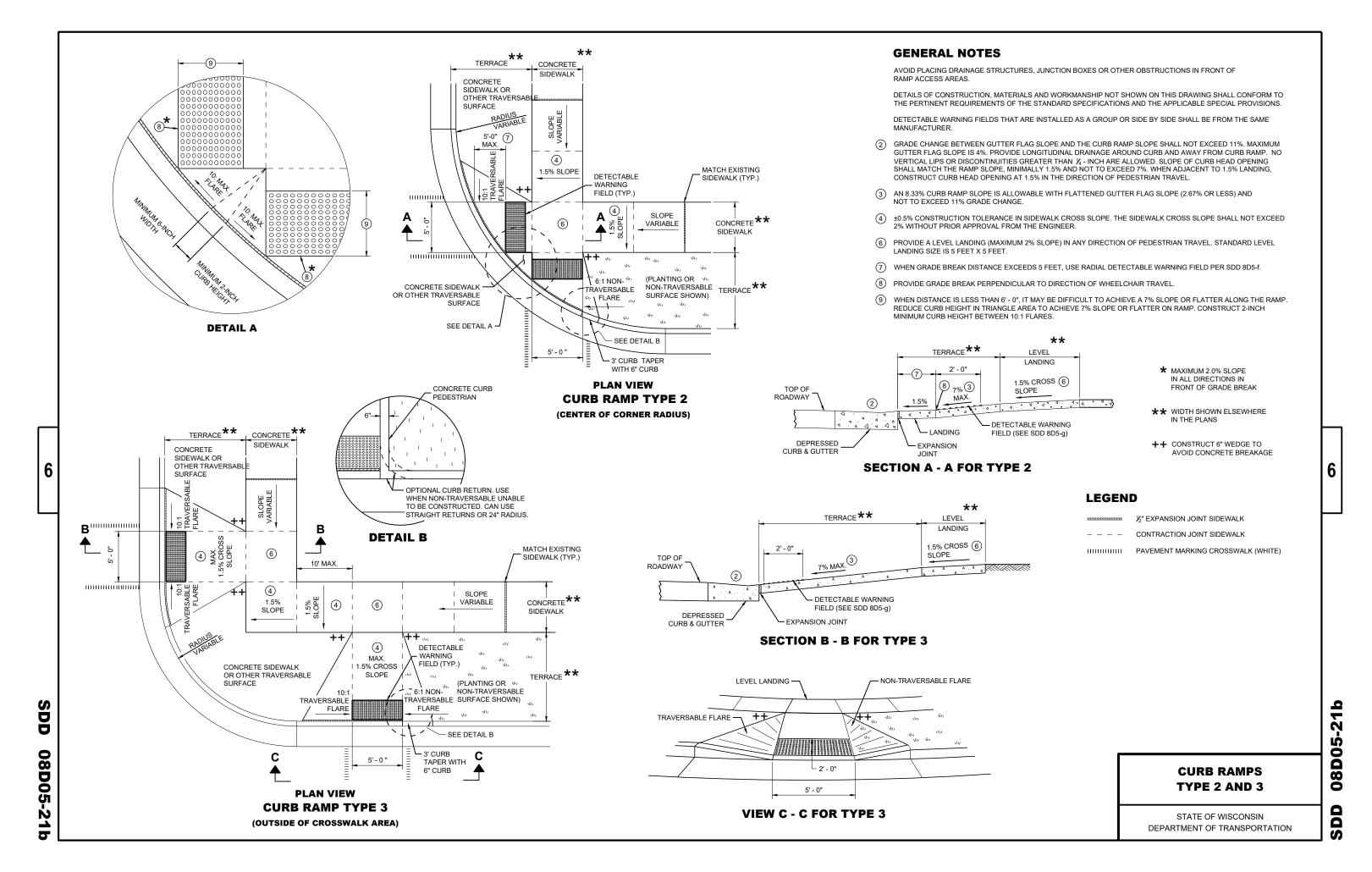
APPROVED

May 2023
DATE
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

SDD 08D01-23b

08D01-2

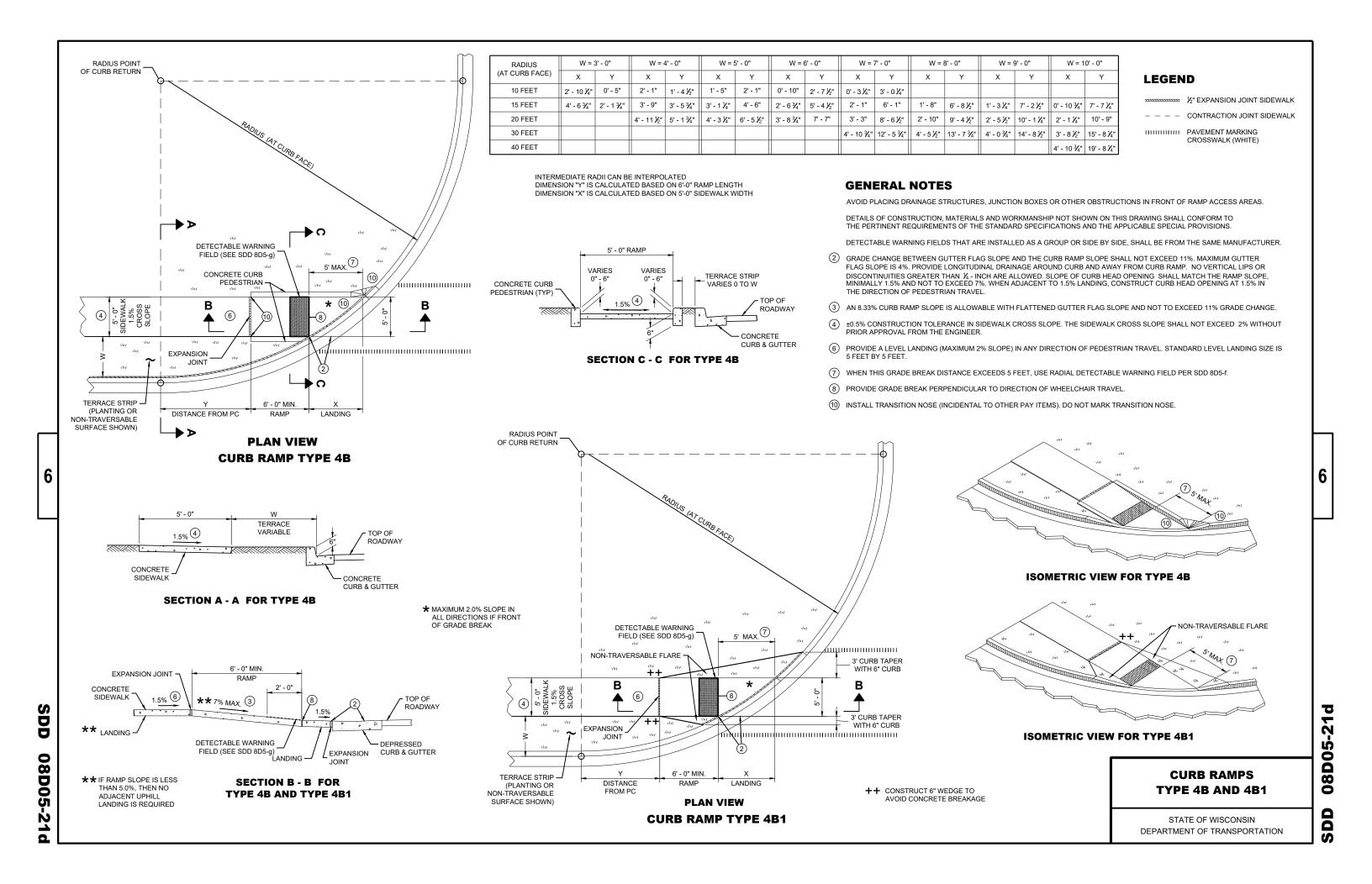


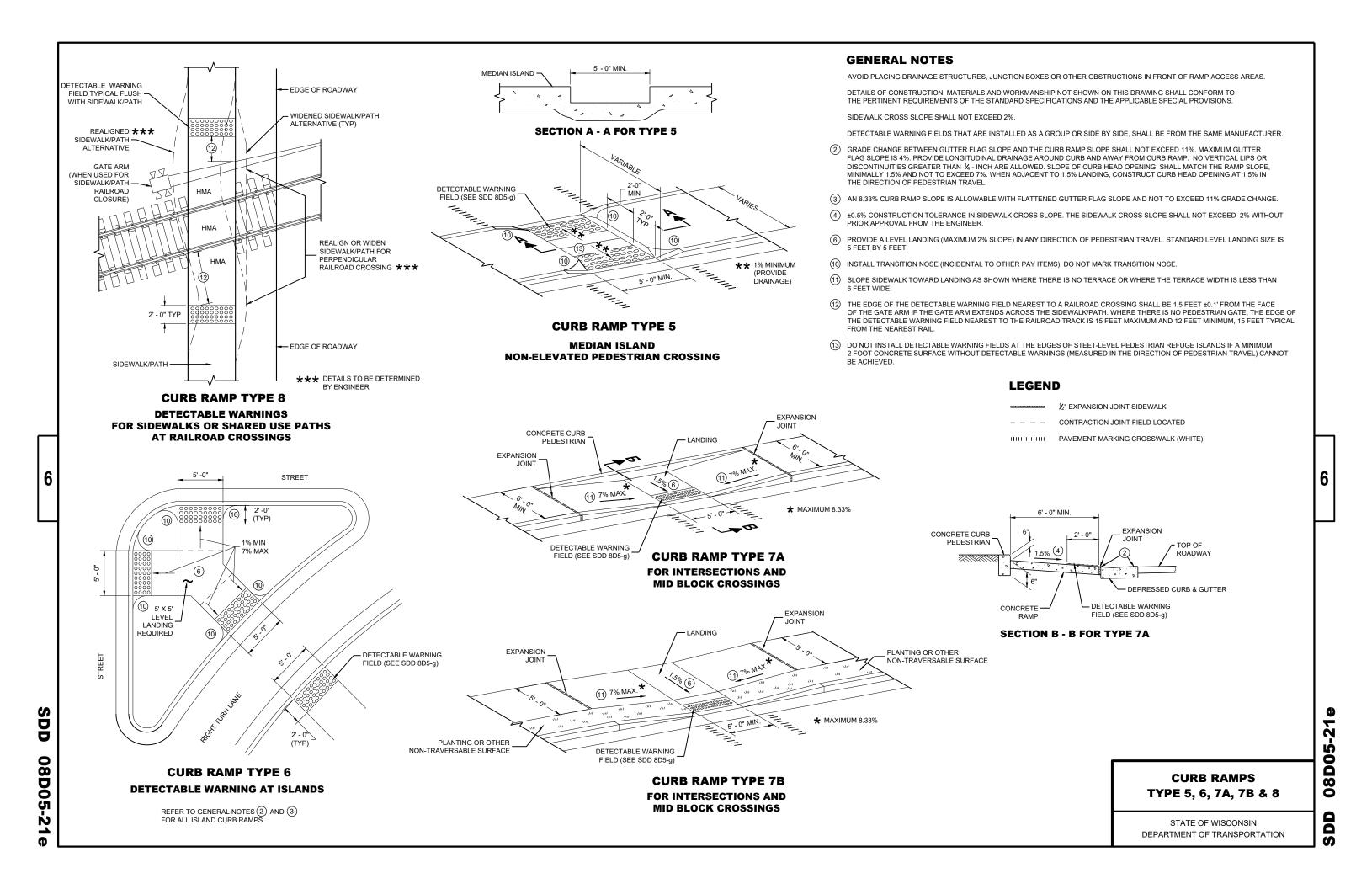


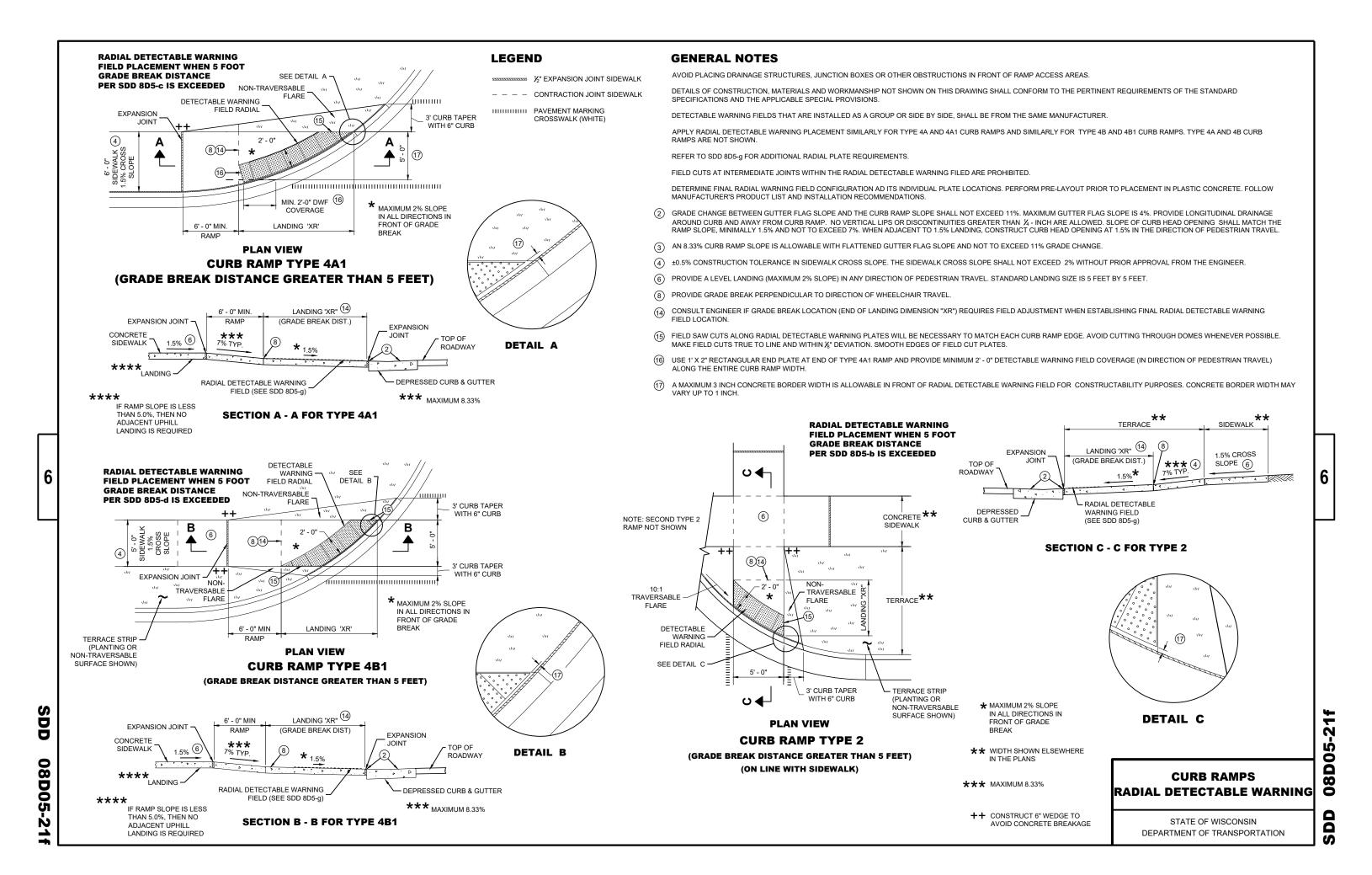
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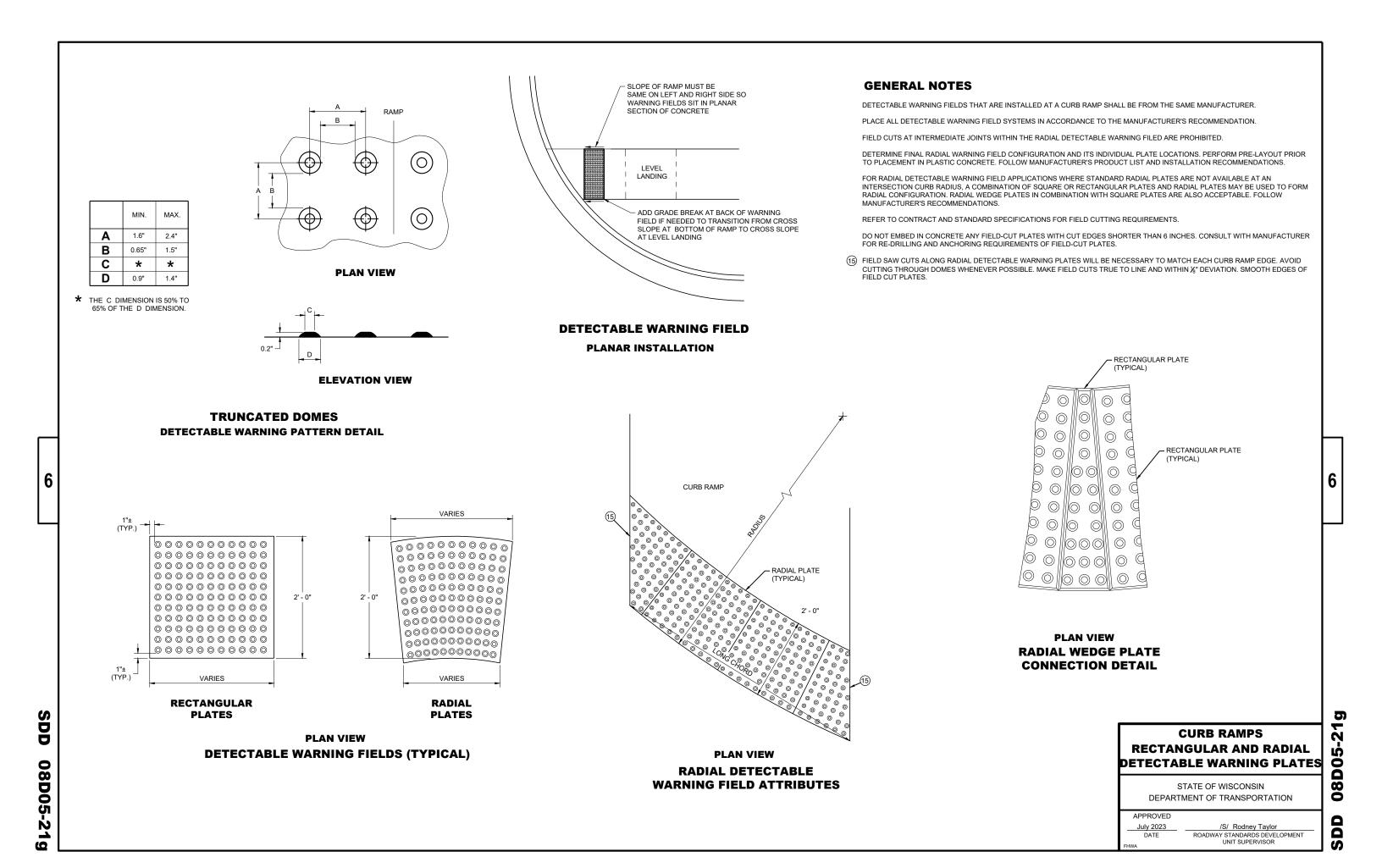
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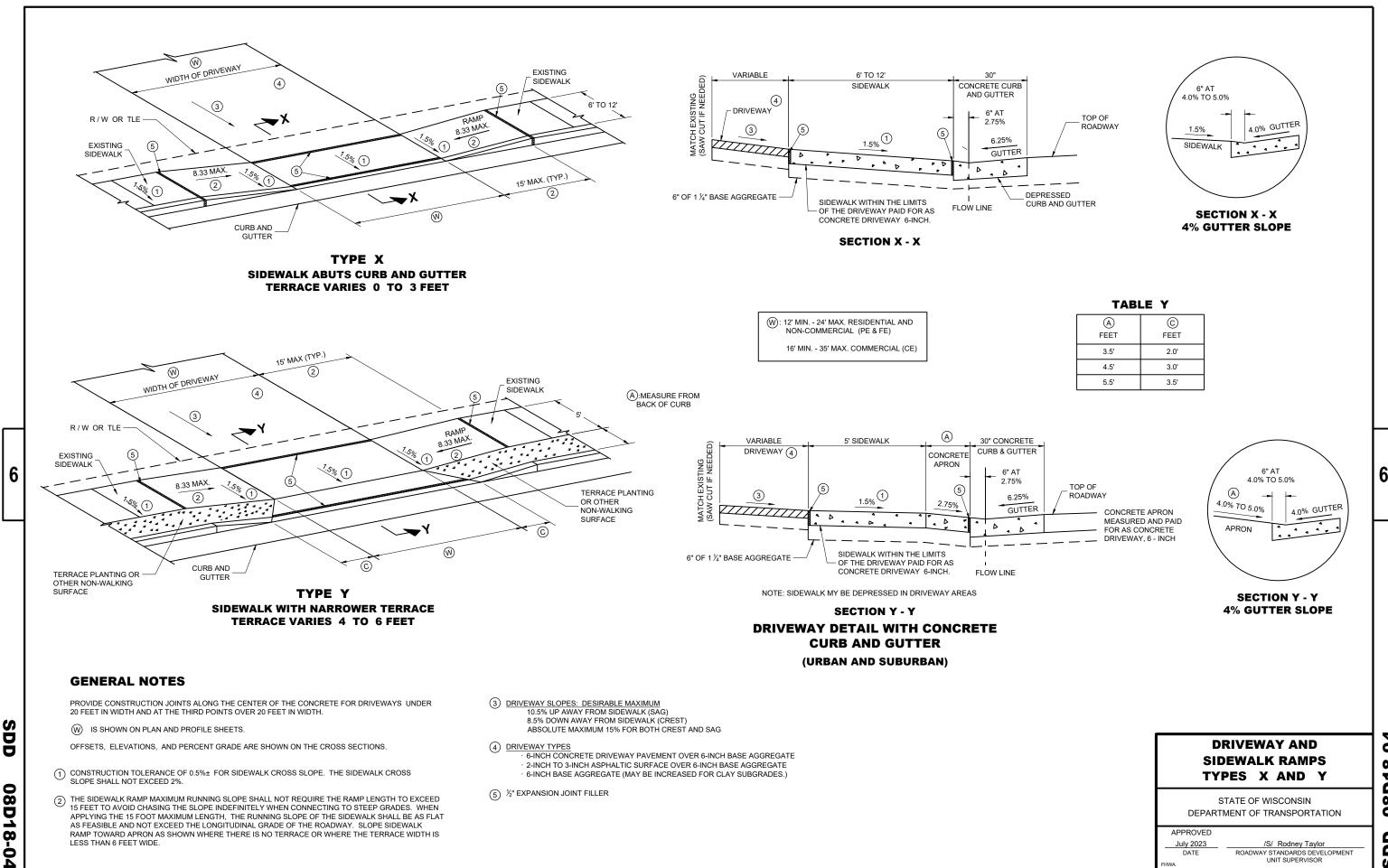
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







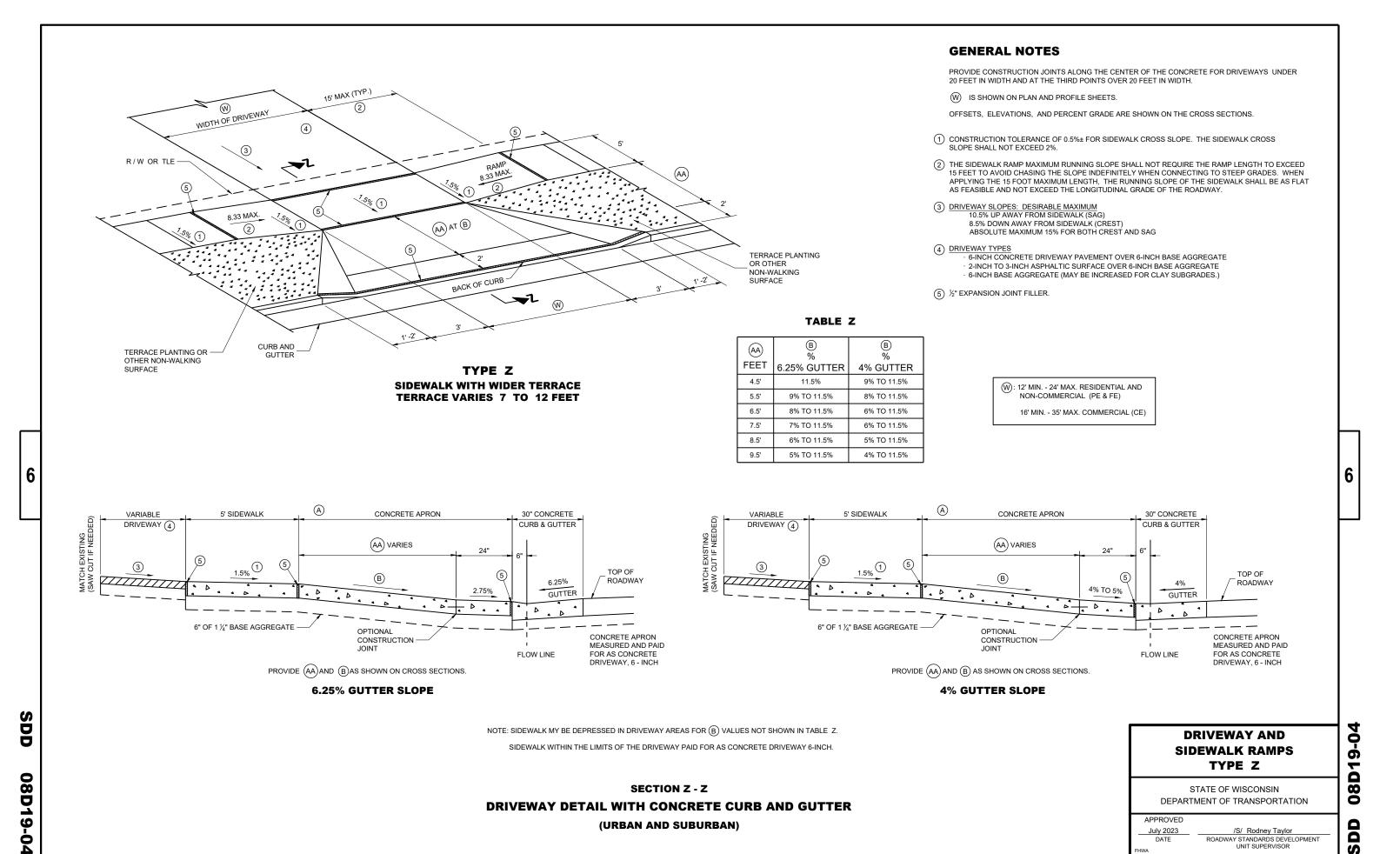




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ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

DATE



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.

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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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

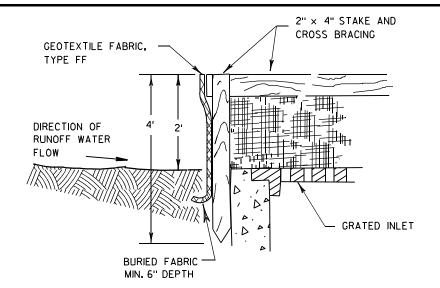
(WHEN REQUIRED BY THE ENGINEER)

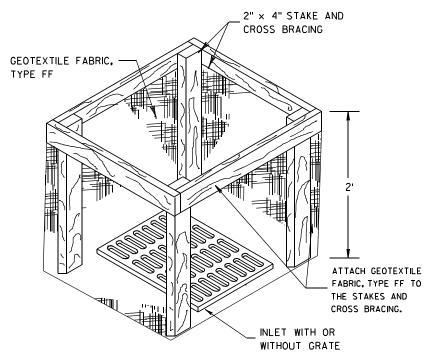


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INLET PROTECTION, TYPE A

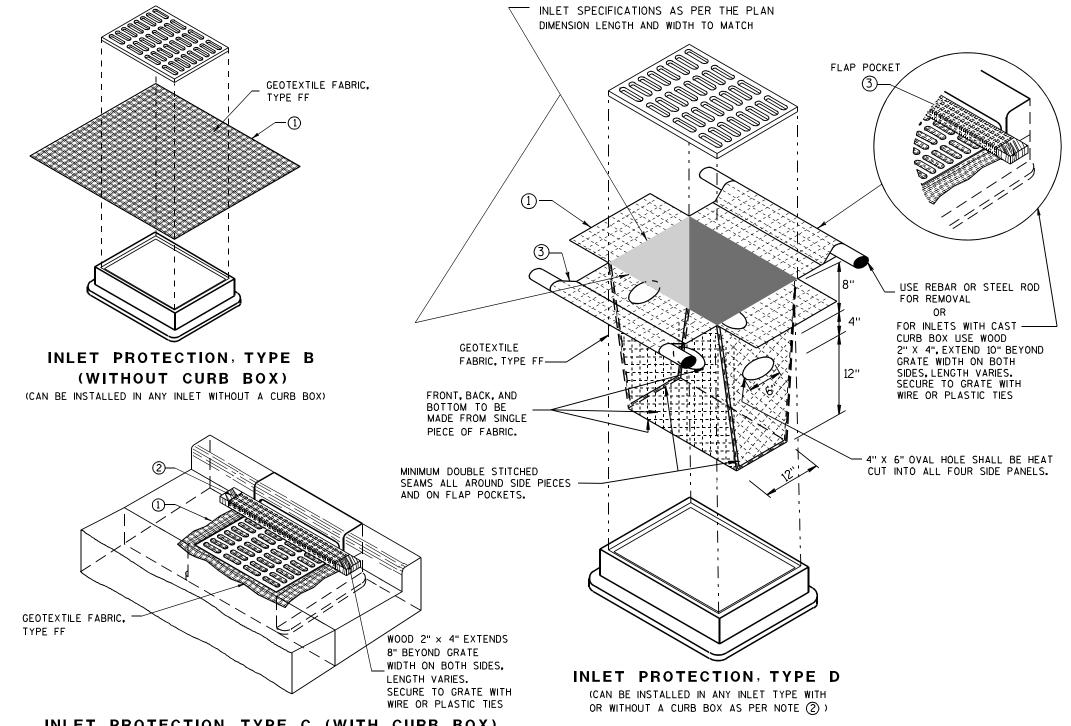
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

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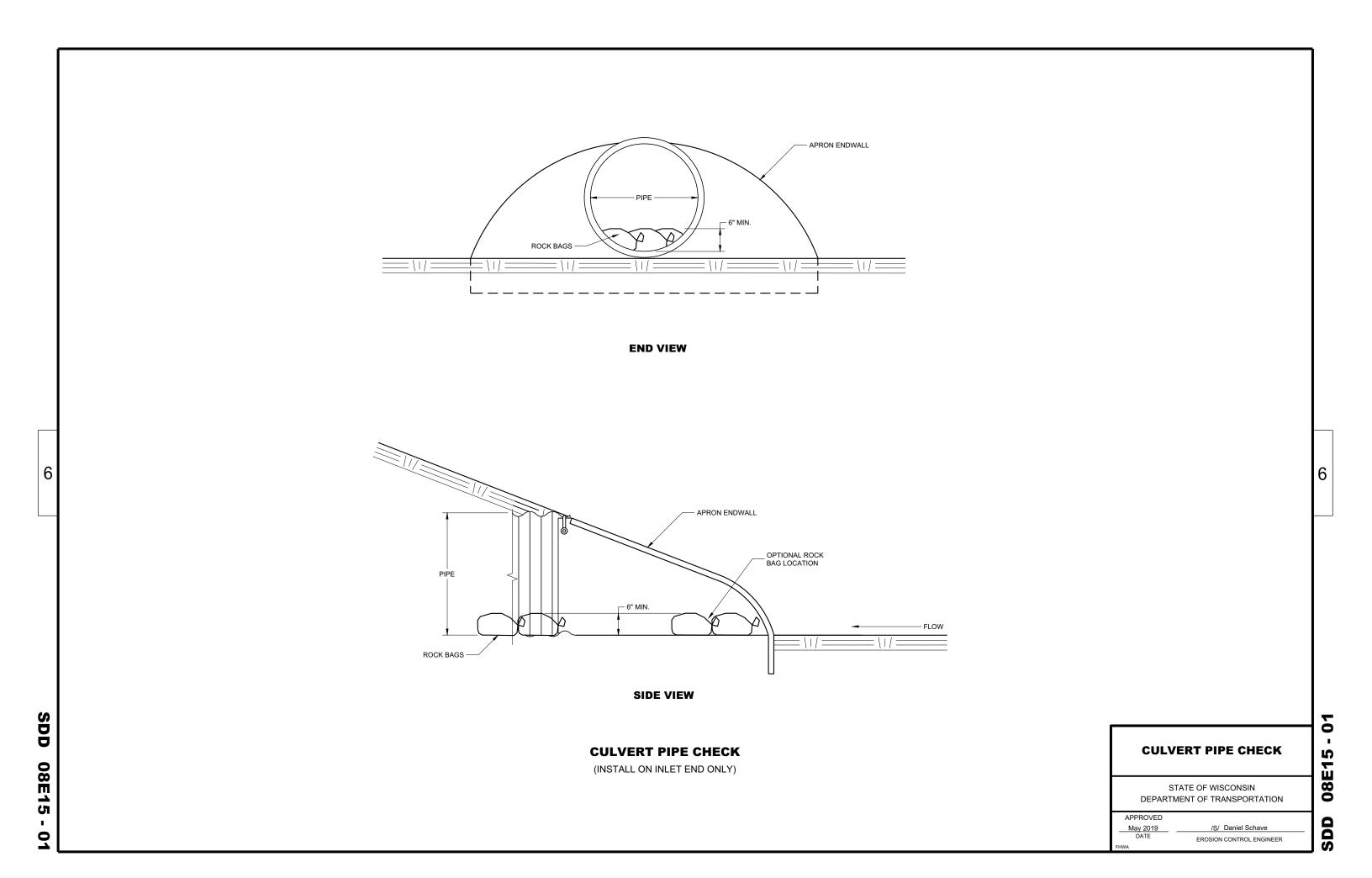
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

10/16/02



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END CORNER

1/16" DIA. HOLES FOR

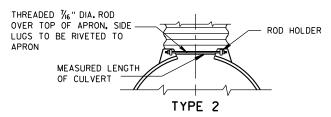
BOLTS OR RIVETS -

12" C-C MAX. SPACING

			N	METAL	APR	ON EI	NDWAL	.LS			
PIPE	MIN. T	HICK.			DIMENS	SIONS (I	nches)			APPROX.	
DIA. (IN.)	(Inch		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	. 105	14	19	9	60	24	59¾	72	2½+o 1	2 Pc.
42	.109	. 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 ¹ / ₄ †o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †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.

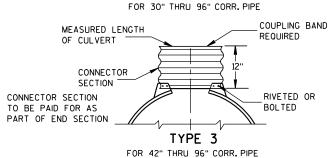
	RE	INFORC	ED C	ONCRE T	E APRO	N E	NDWAL	.LS
PIPE			DIM	Ensions	(Inches)			APPROX.
DIA.	T	A	В	С	D	E	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	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	973/4	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	* ** 331/4-35	8 ¹ /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 to 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

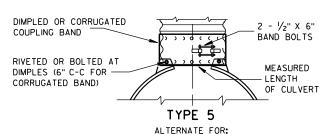
END SECTION CONNECTOR STRAP THREADED 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT



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.

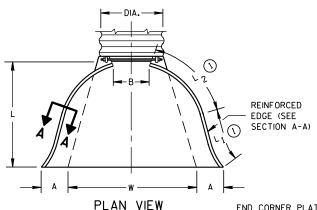
CONNECTION DETAILS

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

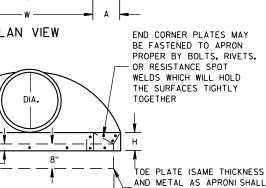
OPTIONAL

DESIGN



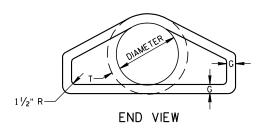
* EXCEPT CENTER PANEL

SEE GENERAL NOTES

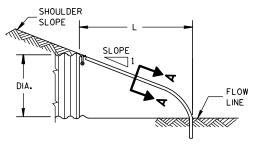


BE FURNISHED WHEN CALLED

FOR ON THE PLANS

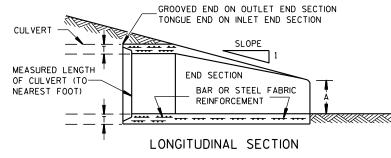


PLAN

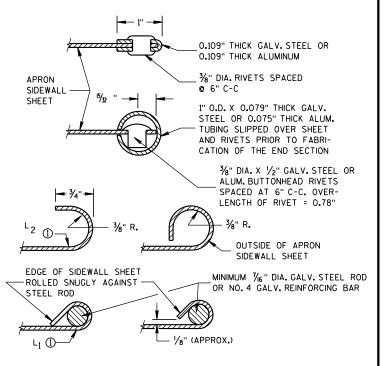


END VIEW





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.

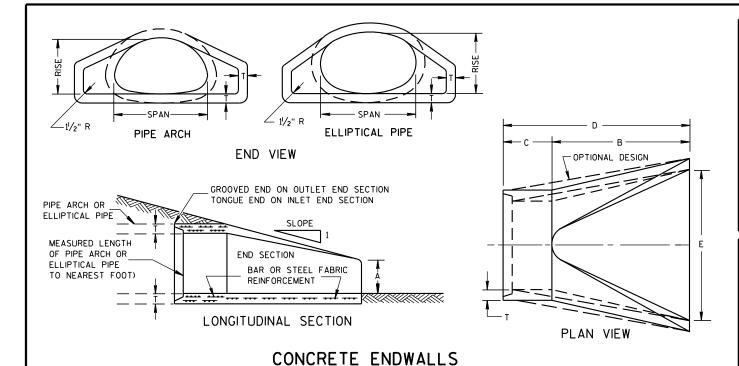
(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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REINFORCED

- EDGE (SEE

FLOW

				2-	2/3"	X 1/2"	CORI	RUGAT	IONS					
EQUIV.	(Incl	2051	MIN. 1	HICK.	DIMENSIONS (Inches)							APPROX. BODY		
DIA.			(Inch	nes)	A	В	Н	L	Lı	L ₂	W	SLOPE	BODY	
(Inches)	SPAN	RISE	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1 ½")	①	<u> </u>	(±2")	JEOI E		
15	17	13	.064	.060	7	9	6	19	14	16	30	2½+o 1	1Pc.	
18	21	15	.064	.060	7	10	6	23	14	193/8	36	21/2+o 1	1Pc.	
21	24	18	.064	.060	8	12	6	28	18	213/4	42	21/2 to 1	1Pc.	
24	28	20	.064	.060	9	14	6	32	18	271/2	48	21/2 to 1	1Pc.	
30	35	24	.079	.075	10	16	6	39	18	375/8	60	21/2+o 1	1Pc.	
36	42	29	.079	.075	12	18	8	46	24	45%	75	21/2+o 1	1Pc.	
42	49	33	.109	.105	13	21	9	53	24	54¾	85	21/2+o 1	2 Pc.	
48	57	38	.109	.105	18	26	12	63	24	68	90	21/2+o 1	3 Pc.	
54	64	43	.109	.105	18	30	12	70	24	723/4	102	2 ¹ / ₄ +o 1	3 Pc.	
60	71	47	.109*	. 105*	18	33	12	77	30	82 ¹ / ₄	114	2 ¹ / ₄ +o 1	3 Pc.	
66	77	52	.109 *	. 105 *	18	36	12	77	ı	-	126	2 to 1	3 Pc.	
72	83	57	. 109*	. 105*	18	39	12	77	_	_	138	2 to 1	3 Pc.	

				3	3" X 1	" COR	RUGA	TIONS					
EQUIV.	(Incl		MIN. 1		A	В	DIMENS H	L	nches)	L ₂	W	APPROX. SLOPE	BODY
(Inches)	SPAN	RISE	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	3E0. E	
48	53	41	.109	.105	18	26	12	63	24	723/4	90	2½+o 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	821/4	102	2 to 1	2 Pc.
60	66	51	.109*	. 105*	18	33	12	77	_	_	114	11/2+0 1	3 Pc.
66	73	55	.109 ×	. 105*	18	36	12	77	_	_	126	1½+o 1	3 Pc.
72	81	59	. 109*	. 105*	18	39	12	77	_	_	138	2 to 1	3 Pc.
78	87	63	.109×	. 105*	22	38	12	77	_	_	148	11/2+0 1	3 Pc.
84	95	67	.109*	. 105*	22	34	12	77	_	_	162	11/2+0 1	3 Pc.
90	103	71	.109*	. 105*	22	38	12	77	_	_	174	1½+o 1	3 Pc.
96	112	75	.109*	. 105*	24	40	12	77		_	174	11/2 to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

THREADED 7/6" DIA. ROD OVER TOP OF APRON, SIDE

LUGS TO BE RIVETED TO

* EXCEPT CENTER PANEL SEE GENERAL NOTES

ROD HOLDER

COUPLING BAND

REQUIRED

RIVETED OR

BOLTED

		REINF	ORCE	CON	ICRET	E PIP	E AR	CH	
EQUIV.			DIME	NSIONS	(Inche	:S)			APPROX
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	E	SLOPE
24	29	18	3	81/2	39	33	72	48	3 to 1
30	36	22	31/2	91/2	50	46	96	60	3 to 1
36	44	27	4	111/8	60	36	96	72	3 to 1
42	51	31	41/2	1513/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	51/2	251/2	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	281/2	83	19	102	144	2 to 1

	REINFORCED CONCRETE ELLIPTICAL PIPE									
EOUIV.		DIMENSIONS (Inches) APPROX.								
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	E	SLOPE	
24	30	19	31/4	81/2	39	33	72	48	3 to 1	
30	38	24	3¾	91/2	54	18	72	60	3 to 1	
36	45	29	41/2	111/8	60	24	84	72	21/2 to 1	
42	53	34	5	15¾	60	36	96	78	21/2+o 1	
48	60	38	51/2	21	60	36	96	84	21/2+0 1	
54	68	43	6	251/2	60	36	96	90	2½+o 1	
60	76	48	61/2	30	60	36	96	96	2½to 1	

**NOMINAL SIZE

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

TYPE 3 FOR 64" X 43" THRU 112" X 75" PIPE ARCH OUTSIDE OF APRON DIMPLED OR SIDEWALL SHEET 2 -1/2" X 6" CORRUGATED-BAND BOLTS COUPLING BAND RIVETED OR BOLTED AT GALV. REINFORCING BAR MEASURED LENGTH DIMPLES (6" C-C FOR -CORRUGATED BAND) OF PIPE ARCH TYPE 5 ALTERNATE FOR: ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

APRON ENDWA	LLS FOR
PIPE ARCH	AND
ELLIPTICAL	PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED				
11/30/94	/S/ R	ory	L. Rhines	mith
DATE	CHIEF ROAD	WAY	DEVELOPMEN	T ENGINEER
FHWA				

6	SECTION A-A)
	PLAN VIEW END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY
	BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER RISE END CORNER PLATE W + 10" (RISE 23" THRU 29") W + 20" (RISE 33" THRU 75") END VIEW W FOR RIVETS BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS
	SHOULDER
	SLOPE SLOPE

SIDE ELEVATION

METAL ENDWALLS

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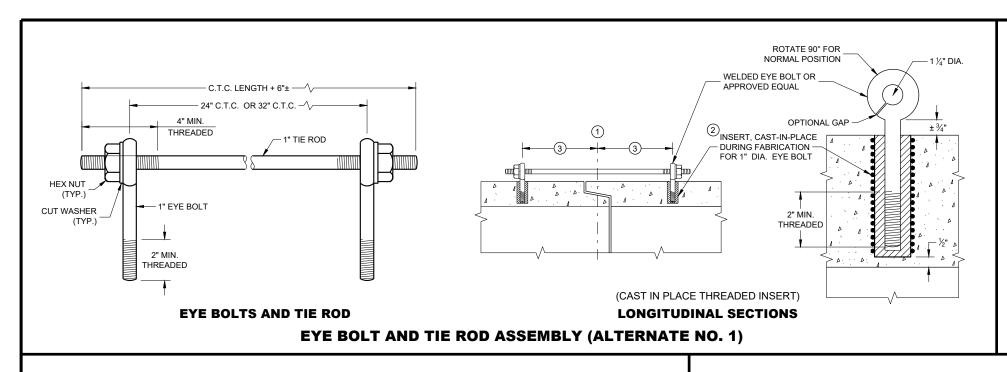
MEASURED LENGTH OF PIPE ARCH 0.109" THICK GALV. STEEL OR 0.109" THICK ALUMINUM FOR 17" X 13" THRU 112" X 75" PIPE ARCH 3/8" DIA. RIVETS SPACED APRON SIDEWALL AT 6" C-C MEASURED LENGTH SHEET OF PIPE ARCH 1" O.D. X O.079" THICK GALV. STEEL OR 0.075" THICK ALUM. CONNECTOR TUBING SLIPPED OVER SHEET SECTION AND RIVETS PRIOR TO FABRI-CATION OF THE END SECTION CONNECTOR SECTION TO BE PAID FOR AS 38" DIA. X 1/2" - GALV. STEEL PART OF END SECTION OR ALUM. BUTTONHEAD RIVETS SPACED AT 6" C-C. OVER-LENGTH OF RIVET = 0.78" EDGE OF SIDEWALL SHEET MINIMUM 7/6" DIA. GALV. -ROLLED SNUGLY AGAINST STEEL ROD OR 10M STEEL ROD

SECTION A-A

- 1/8" (APPROX.)

CONNECTION DETAILS

TYPE 2



GENERAL NOTES

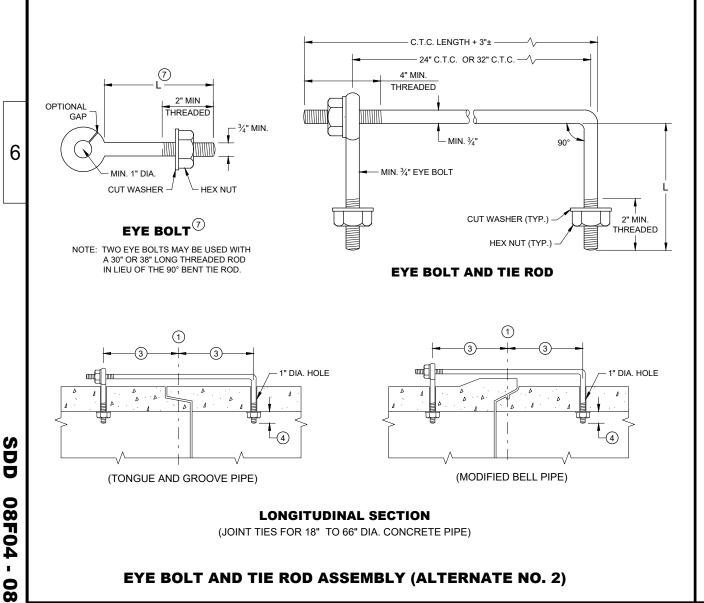
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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. LINESS 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

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.

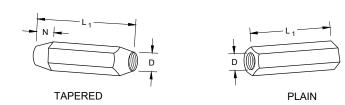
- 1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- 2 THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- (3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- 5 OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- 6 LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.
- (7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.



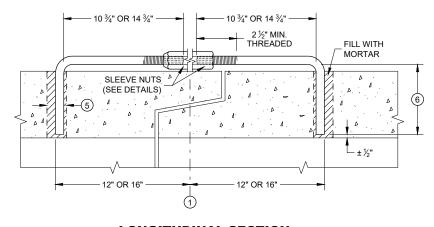
TIE ROD DIAMETER DIAMETER 5 12 - 60 5

ADJUSTABLE TIE ROD TABLE

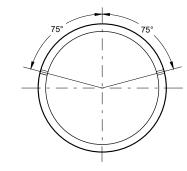
DIMENSIONS SHOWN ARE IN INCHES



RIGHT AND LEFT THREADS **SLEEVE NUTS**

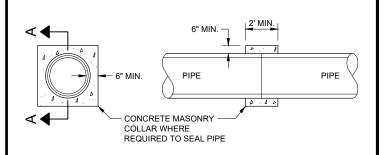


LONGITUDINAL SECTION ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

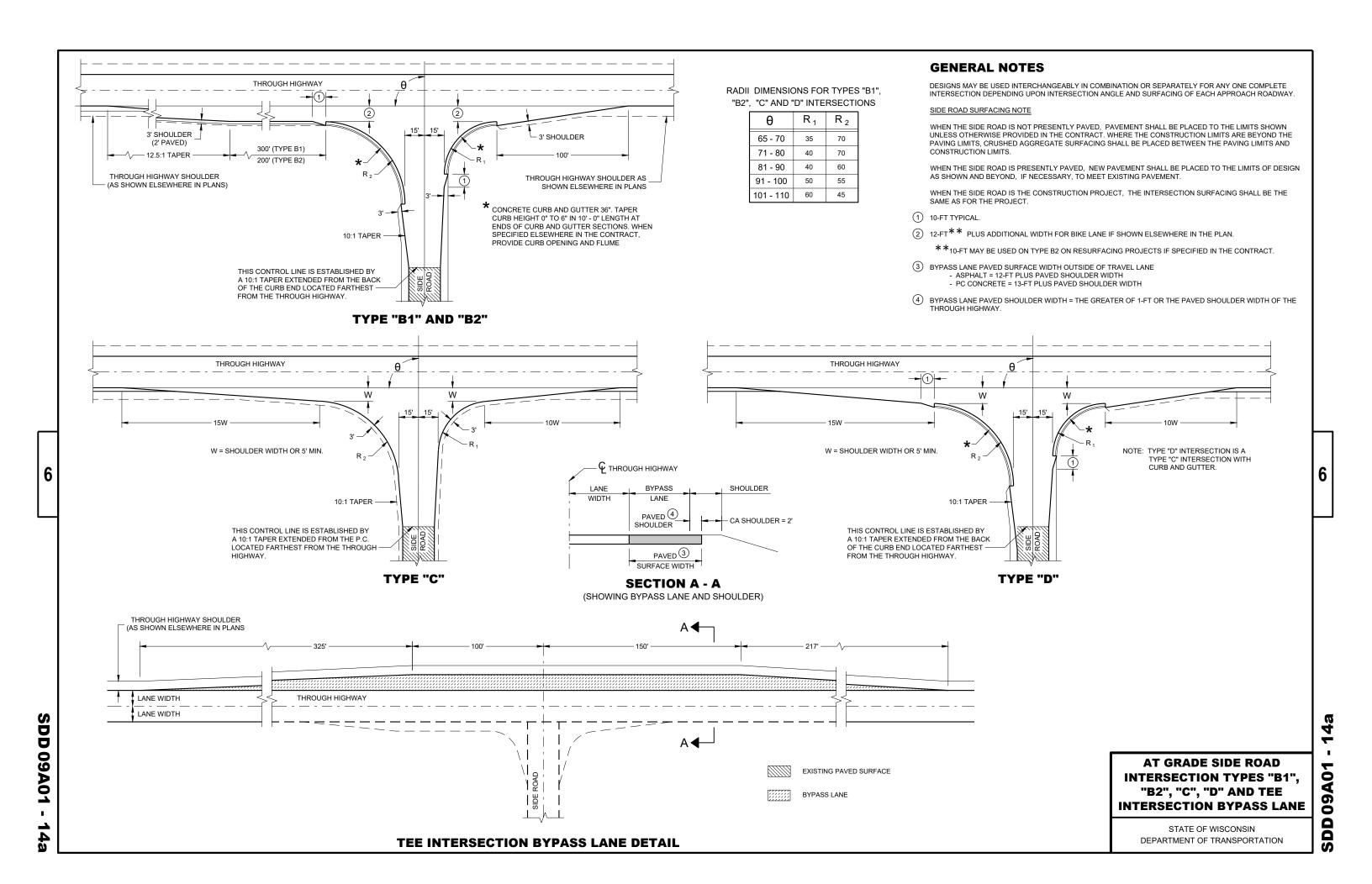
JOINT TIES FOR CONCRETE PIPE AND CONCRETE **COLLAR DETAIL**

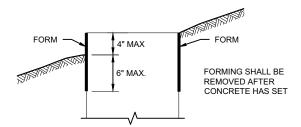
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT
ENGINEER November 2021 DATE

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FORMING	DETAIL

QUANTITY	CONC	RETE BASE	ETYPE
REQUIREMENTS	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

1" CONDUIT

PURPOSES

CONDUIT WITHIN

6" DIA.

FOR GROUNDING

GENERAL NOTES

CONDUIT

11 1/2" BOLT CIRCLE

(OUT TO OUT)

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

1" CONDUIT

PURPOSES

6" DIA.

ANCHOR RODS SHALL BE

ORIENTED PARALLEL TO

THE ROADWAY

CONDUIT

11 1/2" BOLT CIRCLE

FOR GROUNDING

CONDUIT WITHIN

CONDUIT

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED

L 2"

TYPE 5 & 6

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.
- (2) (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (3) (4) 1" DIA. X 5' 0" ANCHOR RODS.
- (6) NO. 6 X 6' 8" BAR STEEL REINFORCEMENT.
- (7) NO. 4 X 5' 1" BAR STEEL REINFORCEMENT @ 1' 0" C C.
- (4) 1" DIA. X 3' 6" ANCHOR RODS.
- (6) NO. 4 X 4' 8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4 \times 5' 1" BAR STELL REINFORCEMENT @ 1' 0" C -C.
- EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR
- (10) 5/8" DIA. X 8'-0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED
- ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/4" OR LONGER THAN 3 1/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- 12) FOR NON BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS, RODENT SCREEN REQUIRED.

CONCRETE BASES TYPES 1, 2, 5, & 6

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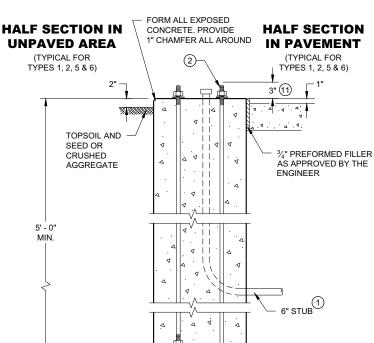
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

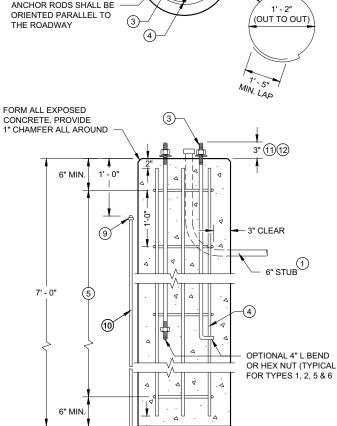
APPROVED May 2019 DATE STATE ELECTRICAL ENGINEER

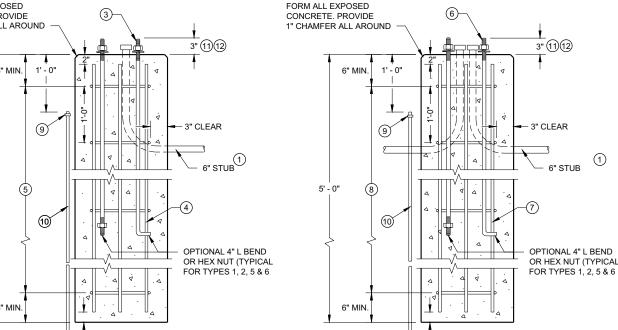
CONDUIT CONDUIT WITHIN 12 3/4" BOLT CIRCLE 6" DIA ANCHOR RODS SHALL BE ORIENTED PARALLEL TO THE ROADWAY



TYPE 1



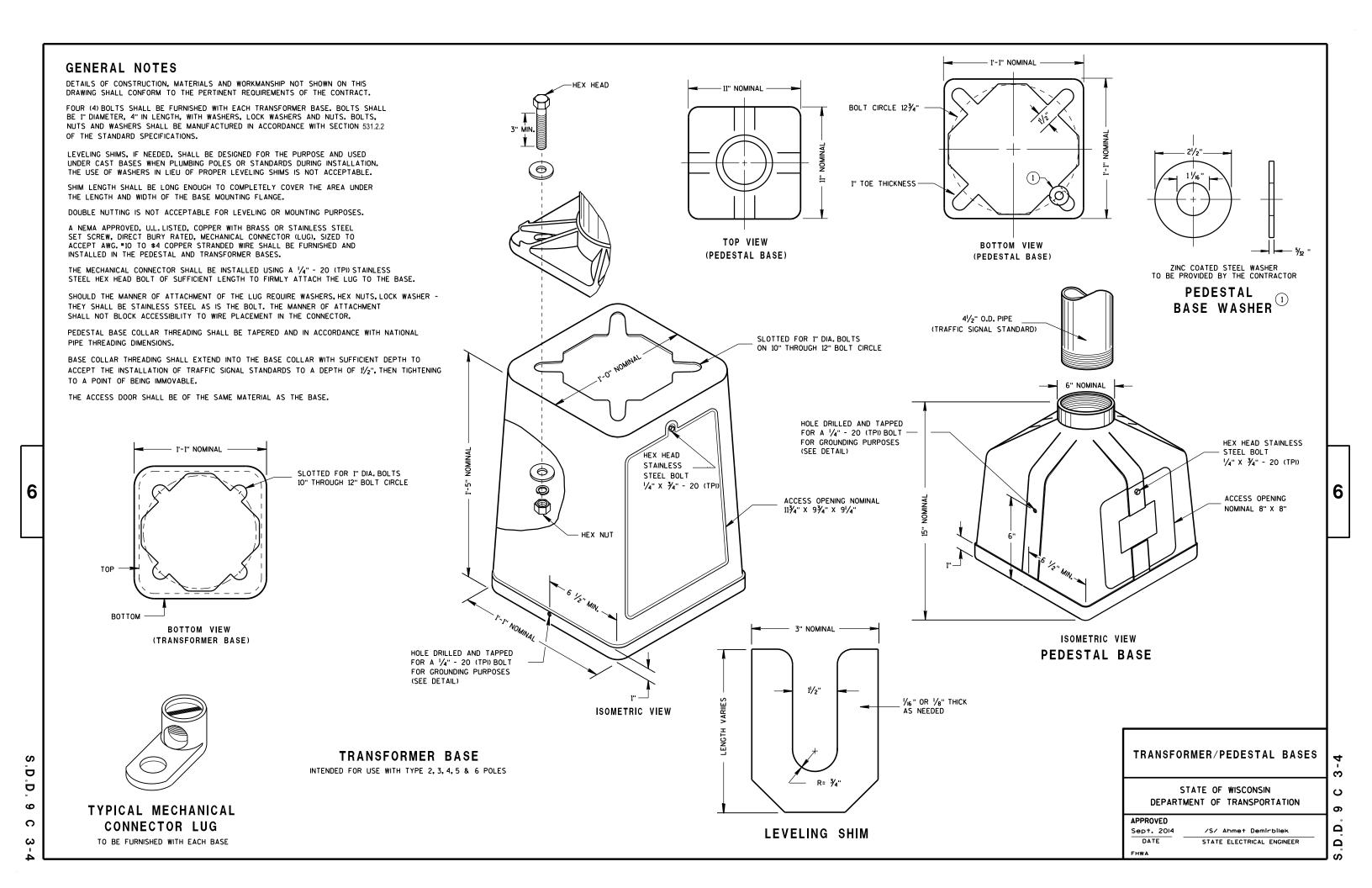




CONCRETE BASES

TYPE 2

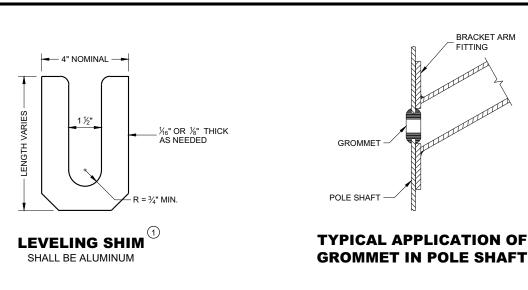
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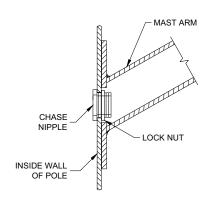






GUSSETS REQUIRED

BOLTS ENTIRE LENGTH



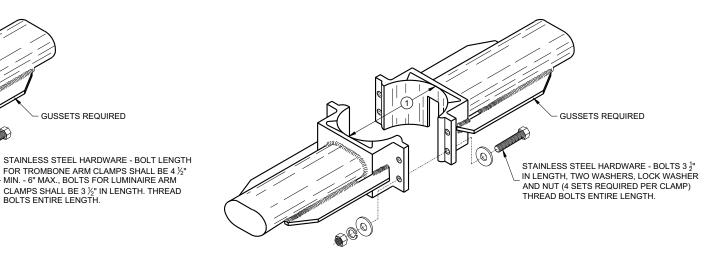
TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

- (1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.
- (2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)
- 3 BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER
- 4 LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

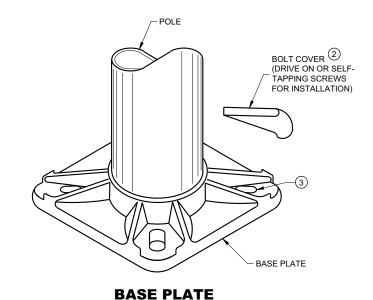


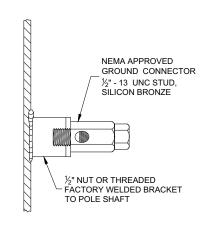
"J " HOOK DOOR SIDE HOOK FACTORY 1 g" RACEWAY HOLE - OPPOSITE WELDED TO POLE DOOR (180° SIDE) IF CALLED FOR

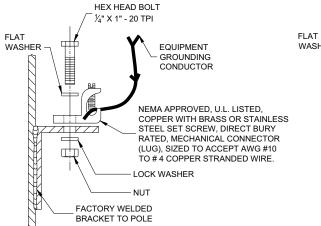
TYPICAL "J" HOOK LOCATION

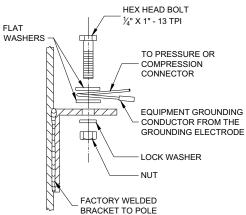
TYPICAL TROMBONE MAST ARM AND SINGLE **LUMINAIRE MAST ARM MOUNTING CLAMP**

TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS









TYPICAL GROUNDING CONNECTIONS

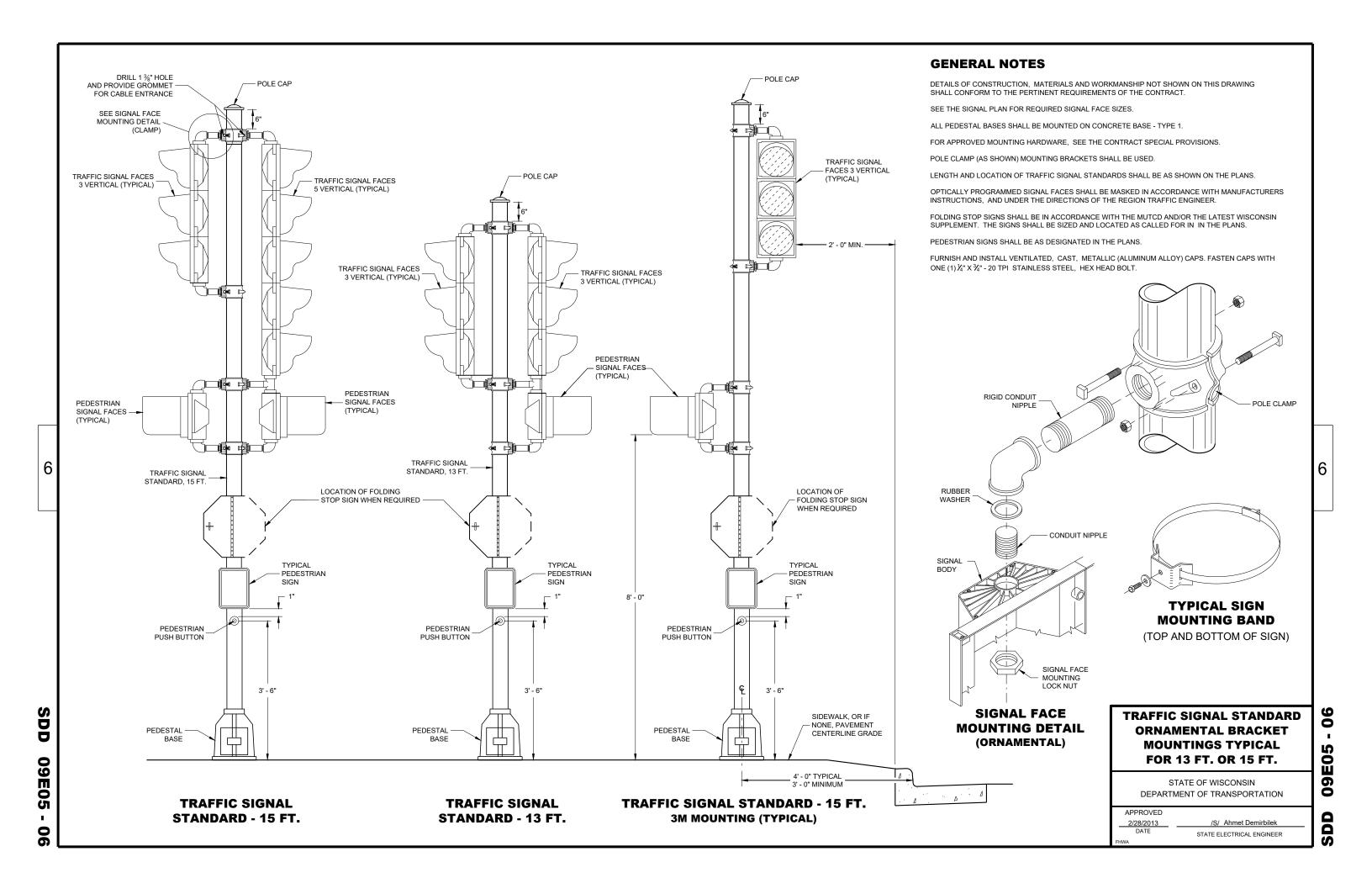
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

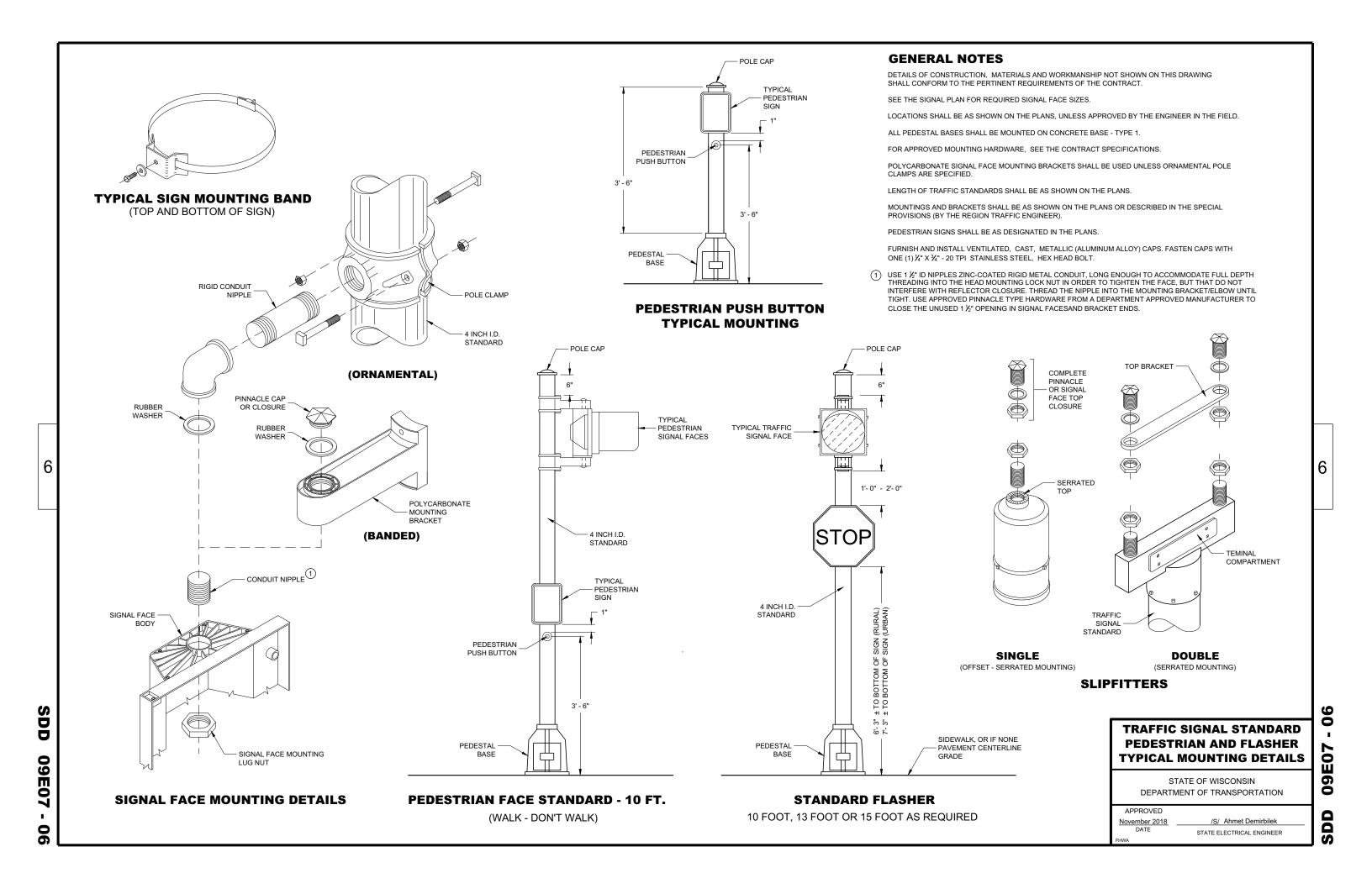
HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2018 DATE

/S/ Ahmet Demirbilel STATE ELECTRICAL ENGINEER 0 0









TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

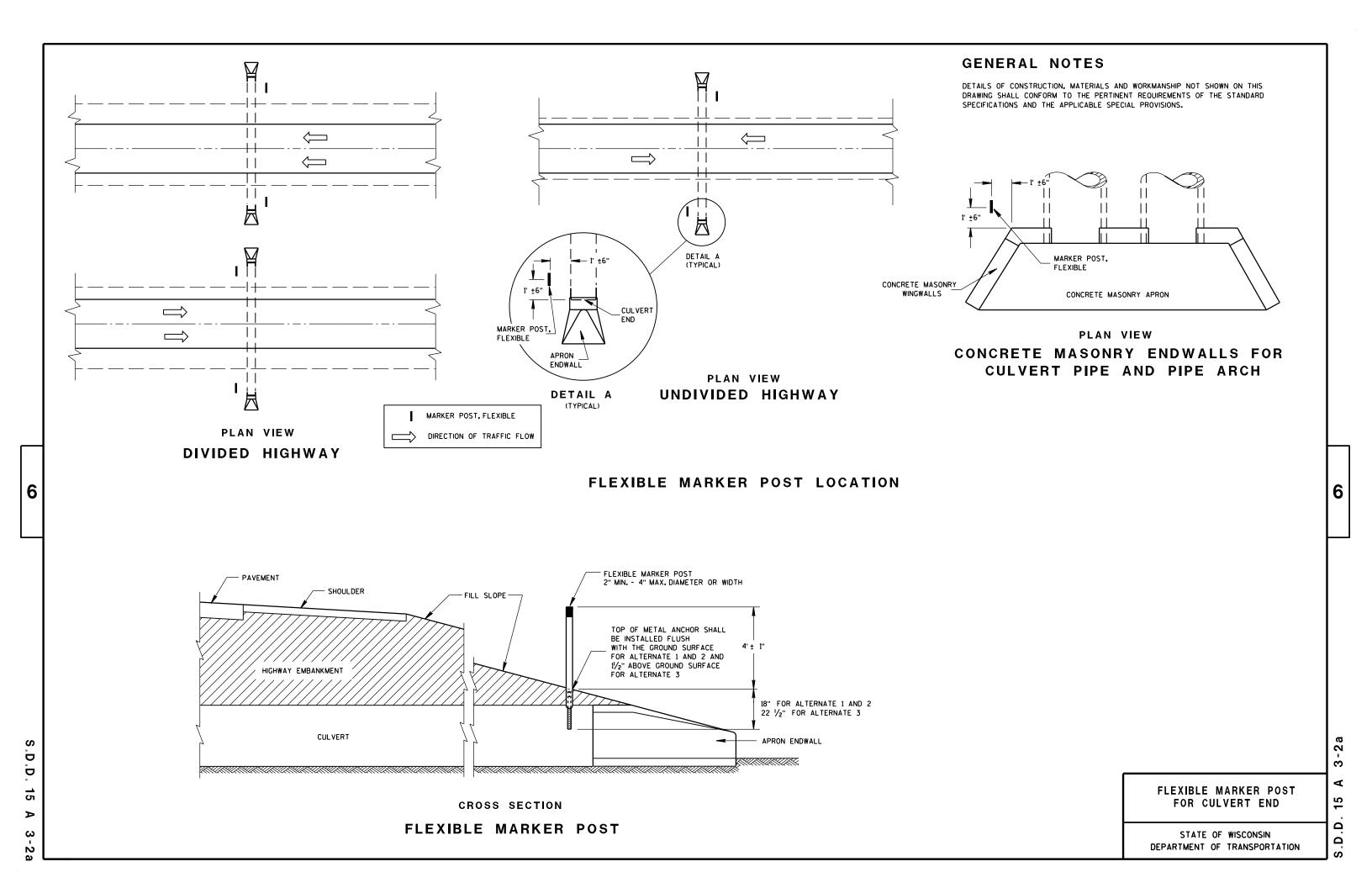
3/26/IO /S/ Scot Becker

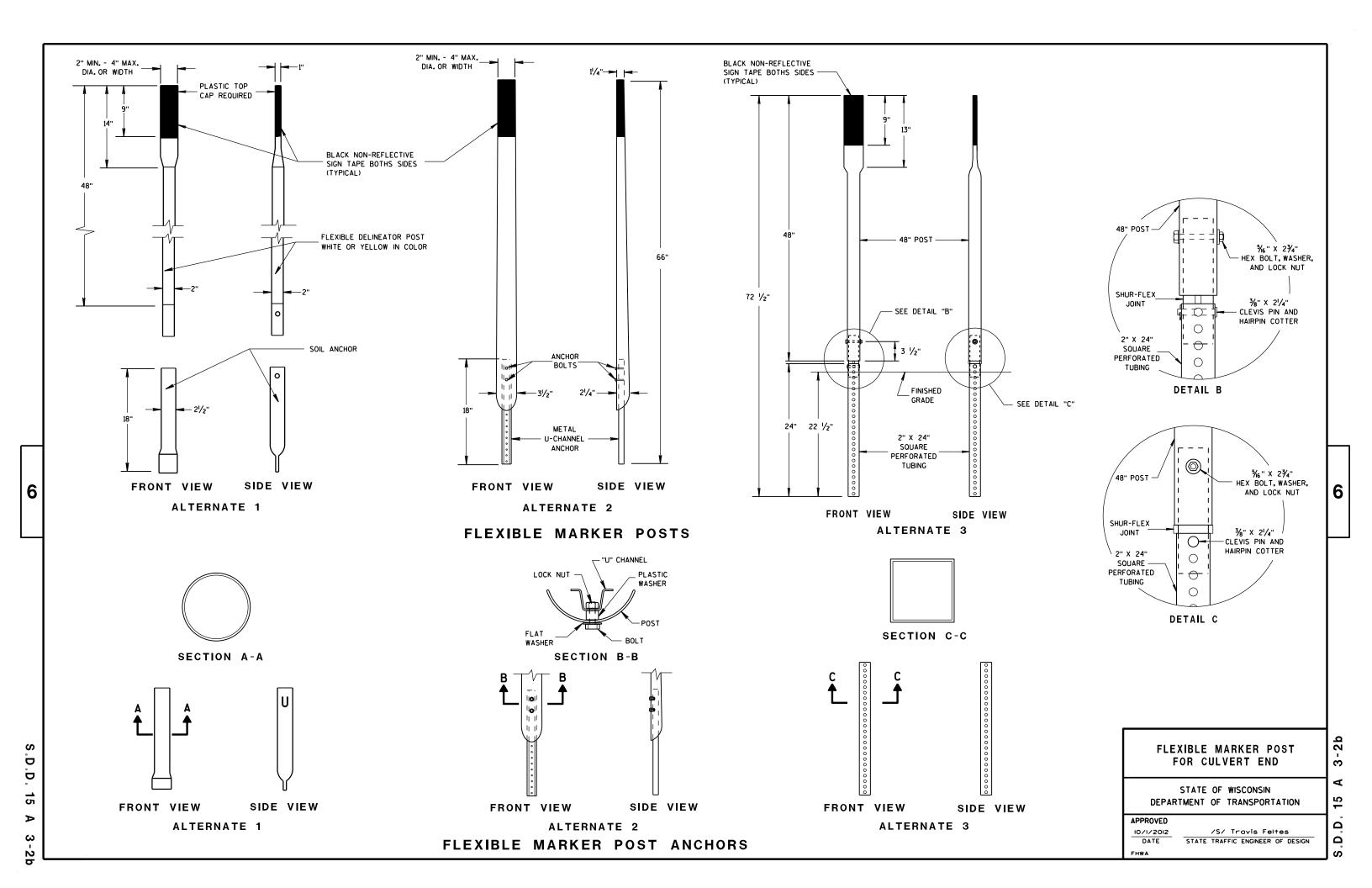
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

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3-10











DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL **APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2. R11 - 3. M4 - 9. R11 - 4. AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

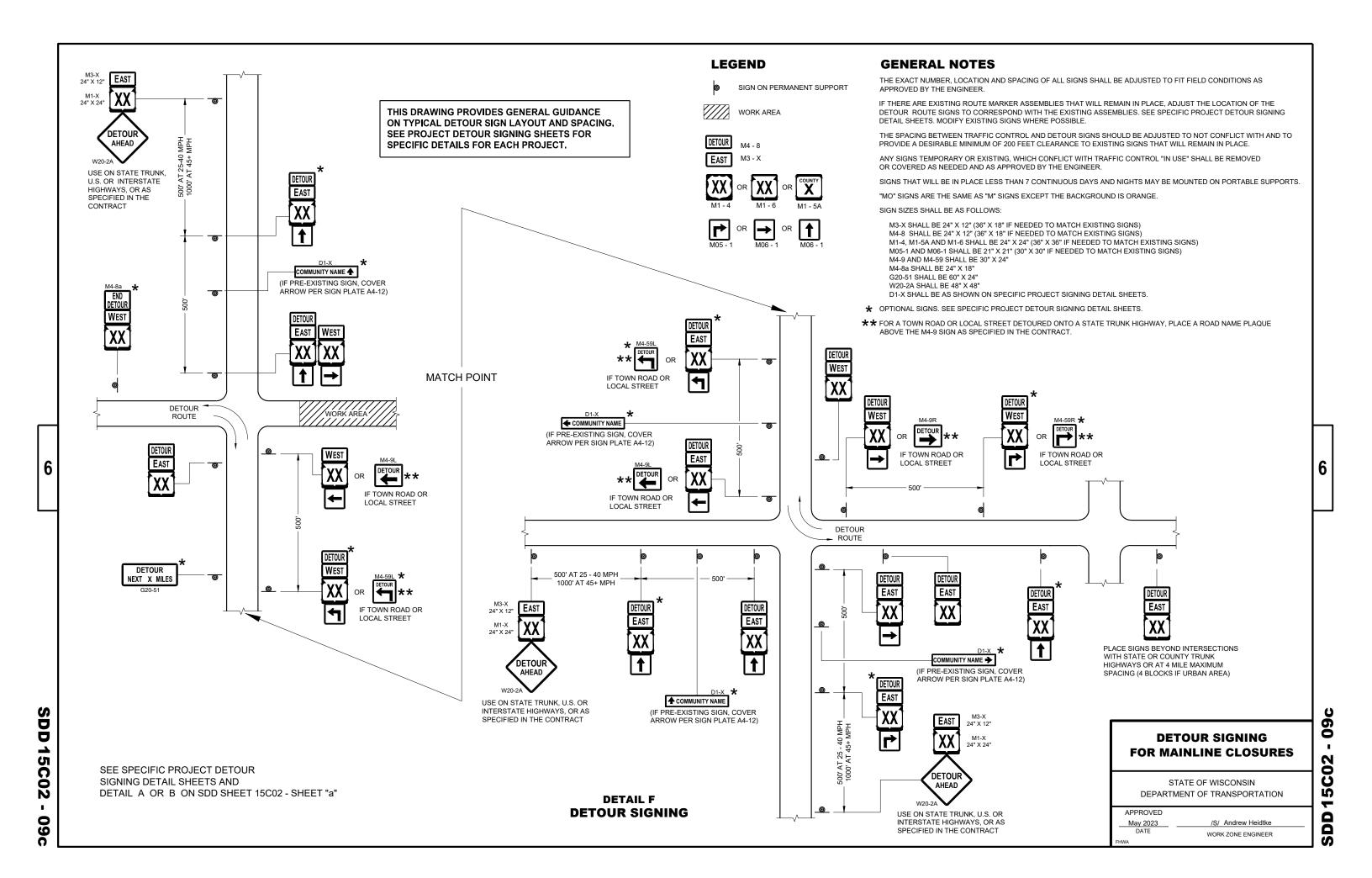
- TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT **SPACING**
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

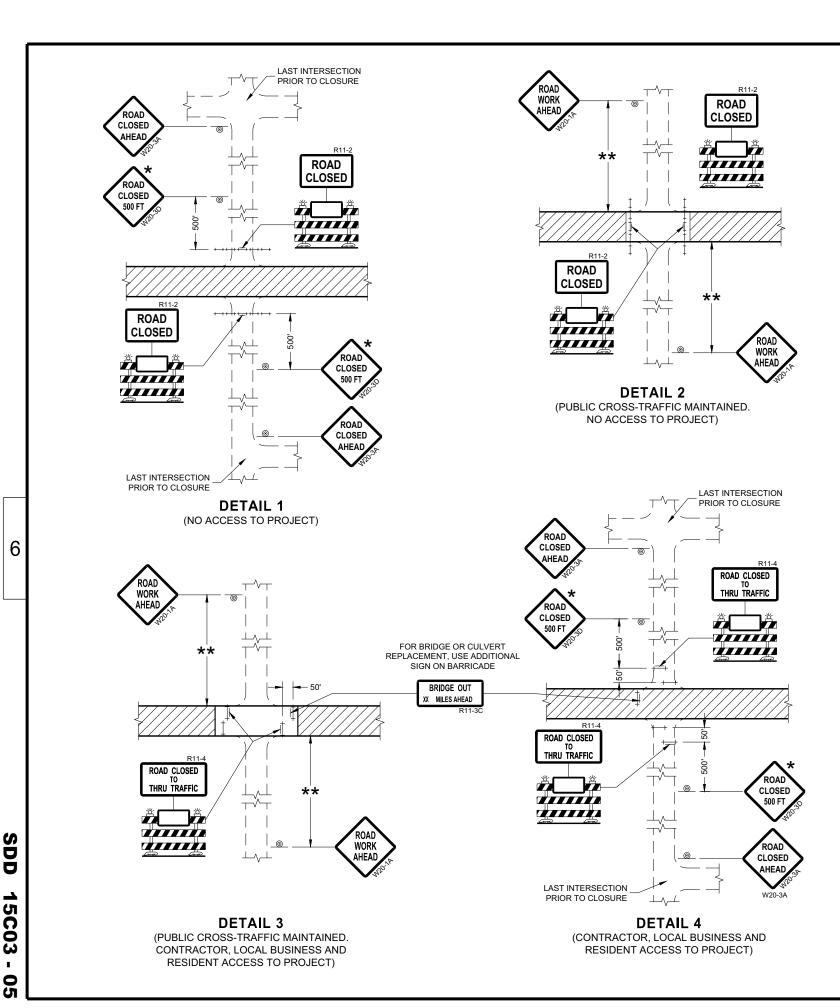
BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2023 DATE WORK ZONE ENGINEER

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GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

- ★ OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

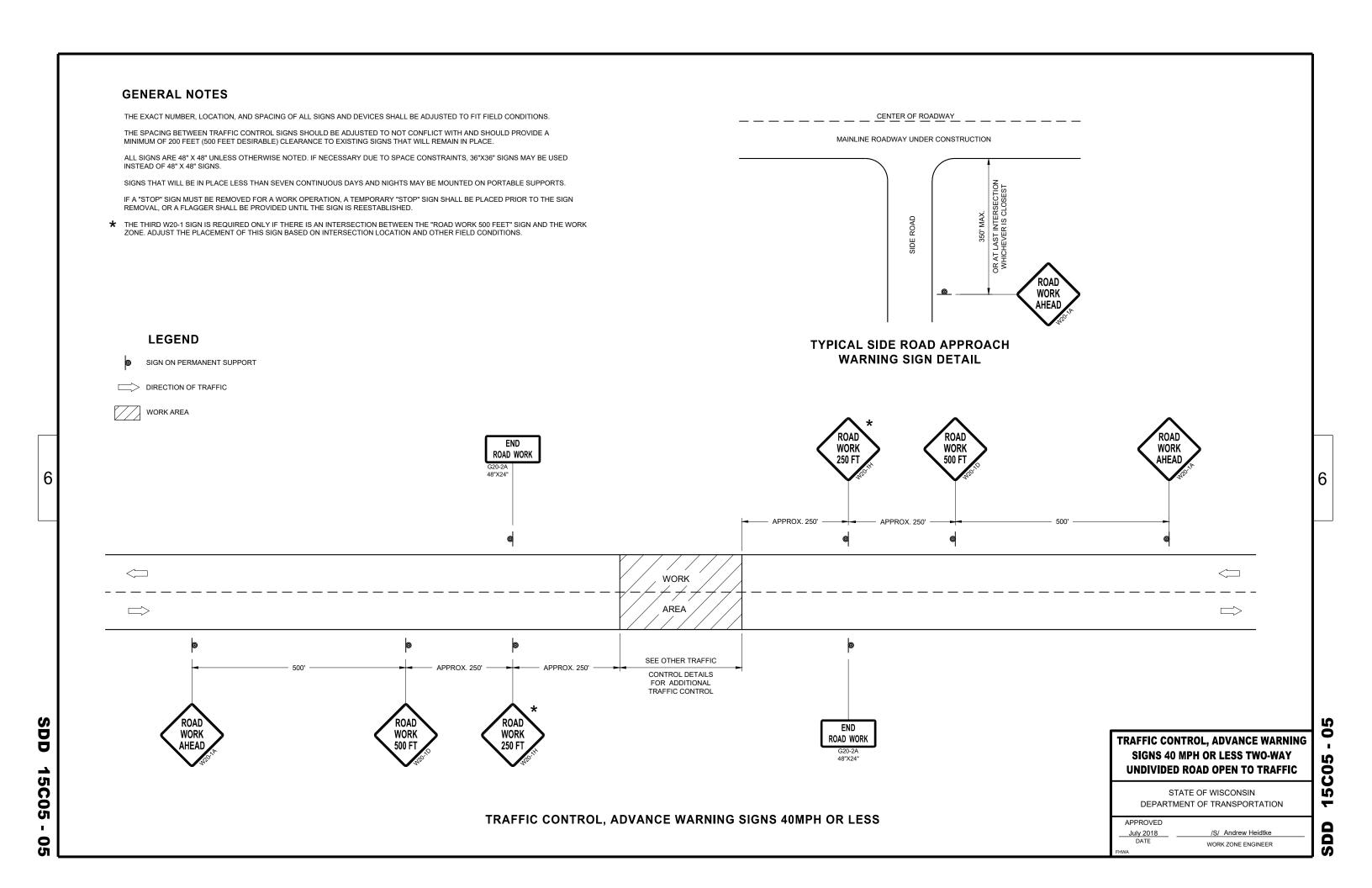
WORK AREA

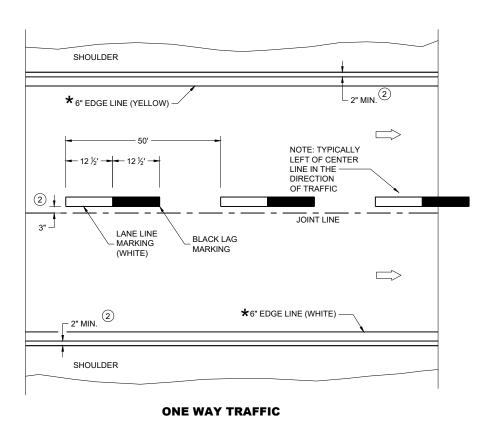
BARRICADES AND SIGNS FOR **SIDEROAD CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED July 2018 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER ŭ

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PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

- 1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- (2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

PERMANENT LONGITUDINAL **PAVEMENT MARKINGS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

May 2023 DATE

/S/ Jeannie Silver Statewide Pavement Marking Engineer

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15C08-23a

SDD 15C11

GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

BALLAST WIDTHS RANGE FROM 24"-36"



42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

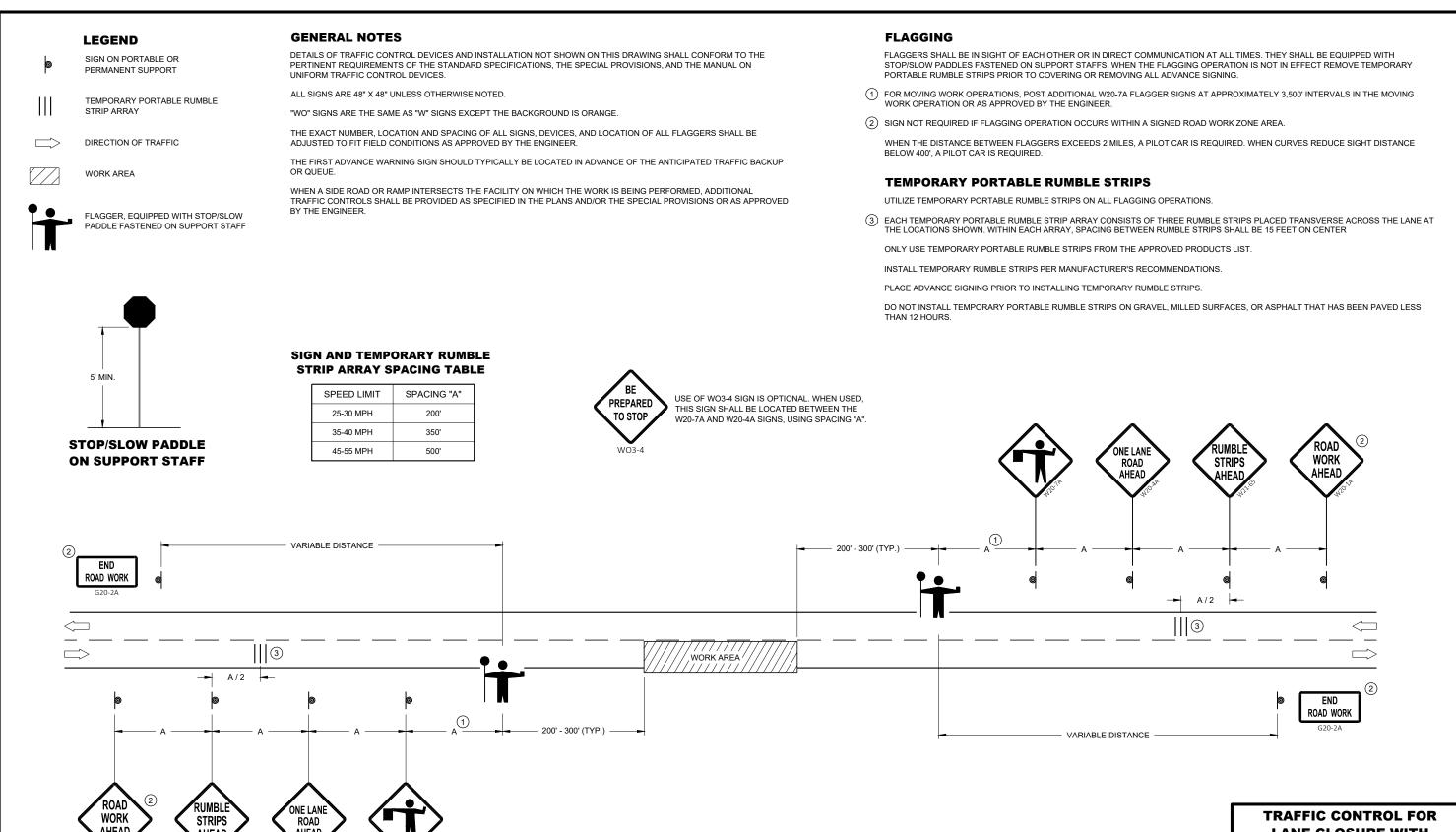
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER



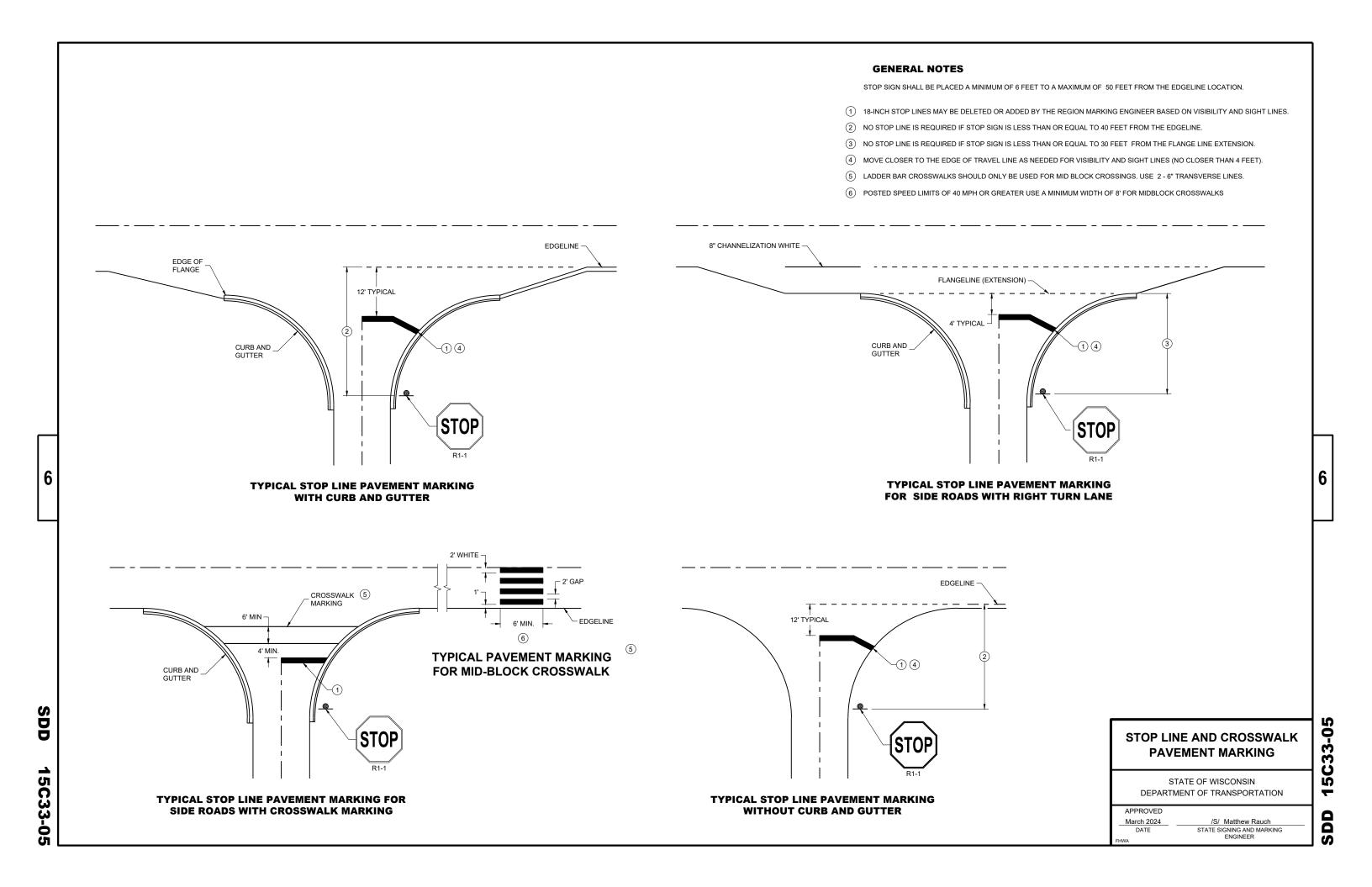
LANE CLOSURE WITH **FLAGGING OPERATION** 0

2

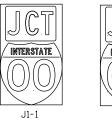
Ŋ

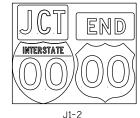
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

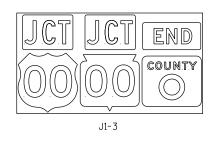
APPROVED May 2022 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER



TYPICAL ASSEMBLIES









MISTIC

ROAD

JR99-1

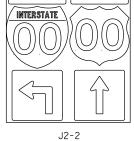


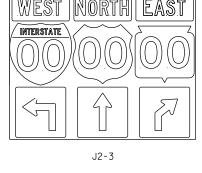
(Typical Vertical J-Assembly See Note 10 and 11)

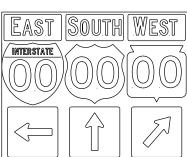




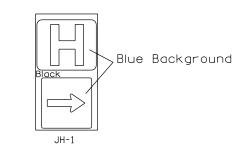
INTERSTATE



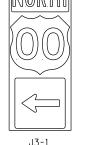




J3-3





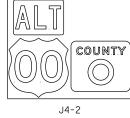




J4-1

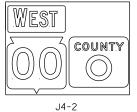
COUNTY

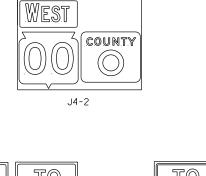
J13-1

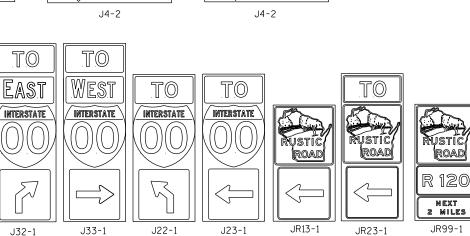


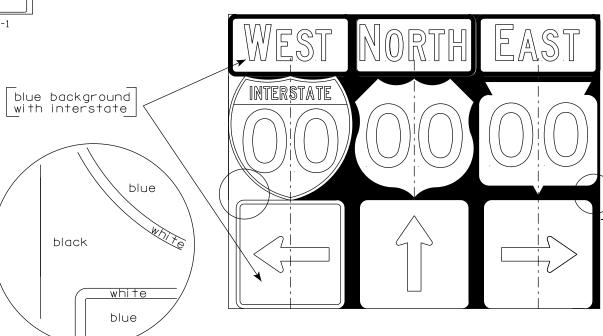
J3-2











NOTES

1. Signs are Type II - Type H Reflective

2. Color:

Background - Black Non-reflective Message - see Note 4

- 3. Message Series See Note 4
- 4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- 5. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
- 6. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
- 7. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- 8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
- 9. All Vertical J Assemblies are given a Sign Code of JV
- 10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
- 11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.

black white black background

ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

APPROVED

DATE 6/7/23 PLATE NO. <u>A2-1S.10</u>

SHFFT NO:

PROJECT NO:

FRONTAGE

ROAD

J12-1

PLOT NAME :

Ε





RURAL AREA (See Note 2)



GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm) 3".

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) 3" or 6'-3" (\pm) 3" depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{-}$) 3''.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directd by the Engineer.

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. __A4-3.23

Ε

PROJECT NO: HWY: COUNTY: SHEET NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





2'Min - 4'Max (See Note 6)



	SIGN SHAPE OTHER THAN DIAM (TWO POSTS REQUIRED)										
	L	E									
***	Greater than 48" Less than 60"	12''									
	60" to 108"	L/5									

HWY:

SIGN SHAPE OTHER THAN	DIAMOND
(THREE POSTS REQUIR	RED)
L	E
Greater than 108" to 144"	12''

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

	ı
Area of Sign	
Installation	D
(Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 1/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

PLATE NO. <u>A4-8.9</u>

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

State Traffic Engineer

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:

CHANNEL

VIEW FROM TOP

GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $\frac{2}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Manher R

APPROVED

DATE 4/19/2022 PLATE NO. A5-10.3

| SH

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

SIGN

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

NOTES

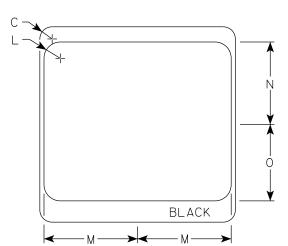
- 1. Sign is Type II Type H Reflective
- 2. Color:

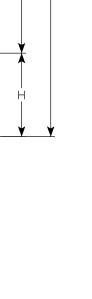
Background - White & Black Message - Black

- 3. Message Series see Note 4
- 4. Message Series E for 1 letter.

 Message Series D for 2 letters unless
 message is too big then Series C.

 Message Series C for 3 letters unless
 message is too big then Series B.
- 5. Substitute appropriate letters & optically center to achieve proper balance.

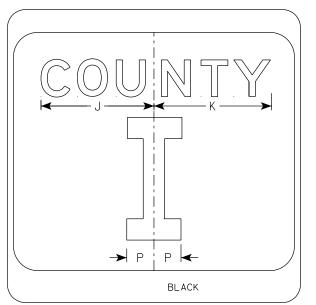


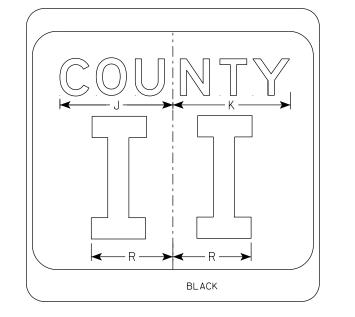


BLACK

HWY:

M1-5A





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

COUNTY:

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED Mai

For State Traffic Engineer

DATE <u>11/8/202</u>2

PLATE NO. M1-5A.9

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn

PROJECT NO:

PLOT DATE: 8-NOV 2022 8:26

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H Reflective
- 2. Color:

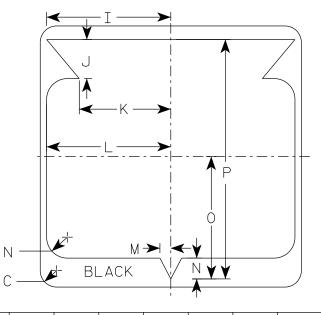
Background - White Message – Black

3. Message Series - D except 3 number signs Series C

G F A
BLACK

M1-6

HWY:



SIZE		Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Τ	U	V	W	X	Υ	Z	Area sq. ft.
1																												
2	2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
2N	1 2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 7/8	33											9.0
4	()	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 7/8	33											9.0
5	3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 1/8	16 7/8	33											9.0

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹or State Traffic Engineer

SHEET NO:

DATE 11/8/2022 PLATE NO. M1-6.11

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M16.dgn

PROJECT NO:

PLOT DATE: 8-NOV 2022 8:40

PLOT BY : dotc4c

PLOT NAME :

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

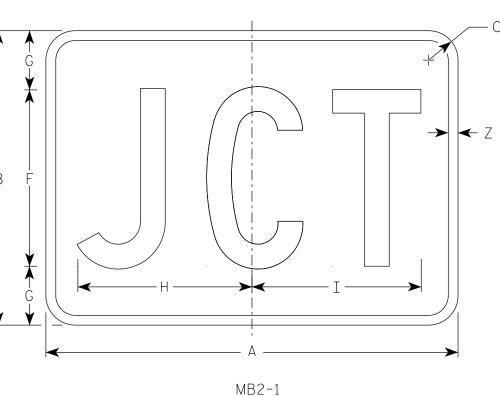
MN2-1 Background - Brown Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MK2-1

MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	21	15	1 1/2	3/8	3/8	9	3	8 1/8	8 5/8																	1/2	2.20
2M	21	15	1 1/2	3/8	3/8	9	3	8 1/8	8 5/8																	1/2	2.20
3	30	21	1 1/2	3/8	3/8	13	4	12 1/8	12 3/8																	1/2	4.40
4	30	21	1 1/2	3/8	3/8	13	4	12 1/8	12 3/8																	1/2	4.40
5	30	21	1 1/2	3/8	3/8	13	4	12 1/8	12 3/8																	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹artate Traffic Engineer

DATE 2/8/2023

PLATE NO. <u>M2-1.14</u>

Ε

SHEET NO:

PROJECT NO:

PLOT DATE: 28-MARCH 2023 8:20

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M21.dgn

M2-1

HWY:

MM2-1 MP2-1

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

$\begin{array}{c c} & & & \\ \downarrow & & \downarrow \\ \hline & & & \\ \hline & & & \\ \end{array}$	G	
		3
M4-8	>	<u>, </u>

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	┙	М	N	0	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

COUNTY:

STANDARD SIGN M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

DATE 2/9/2023 PLATE NO. M4-8.4

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48.dgn

HWY:

PROJECT NO:

PLOT DATE: 9-FEB 2023 7:38

PLOT BY : dotc4c

PLOT NAME :

SHEET NO: PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

2. Color:

Background - Orange Message - Black

- 3. Message Series B
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

C	<u> </u>
	G
	F G
M4-8A	→

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
2M	24	18	1 1/2	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
5	30	24	1 1/2	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0

COUNTY:

STANDARD SIGN M4 - 8 A

WISCONSIN DEPT OF TRANSPORTATION

for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4 SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48A.dgn

PROJECT NO:

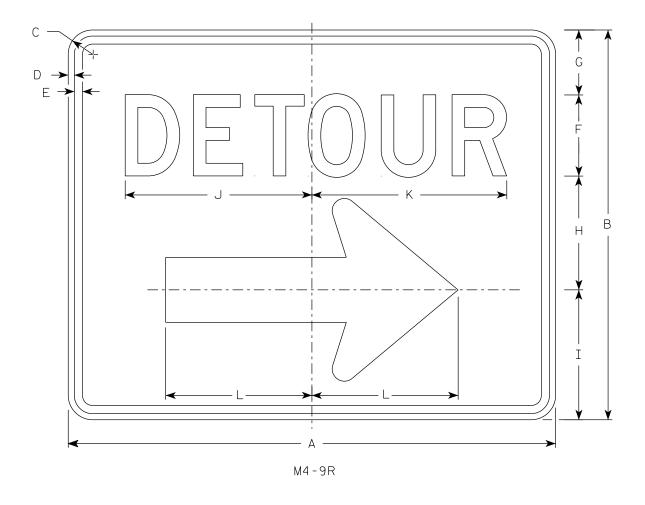
PLOT DATE: 9-FEB 2023 8:03

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

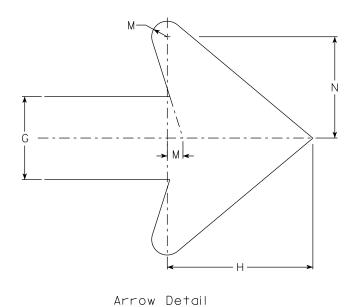
HWY:



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M4-9L is the same as M4-9R except the arrow is reversed.



SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 1/8													5.00
4	48	36	1 1/8	1/2	5/8	8	6	10 1/2	11 5/8	20 %	20 1/2	13 1/4	1 1/8	6 %													12.0
5	48	36	1 1/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 1/8													12.0

COUNTY:

STANDARD SIGN M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe

Forstate Traffic Engineer

8/2023 PLATE NO. M4-9R.6

DATE <u>2/9/2023</u>

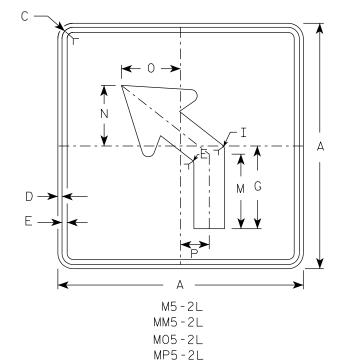
SHEET NO:

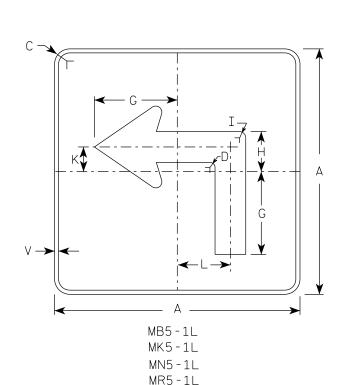
Ε

HWY:

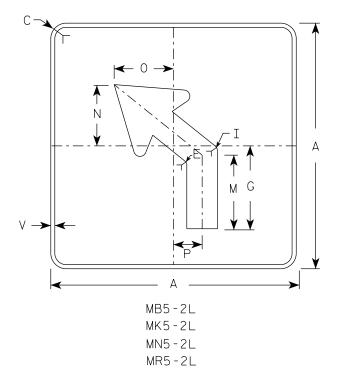
PROJECT NO:

M5-1L MM5-1L M05-1L MP5-1L





HWY:



NOTES

- 1. Signs are Type II Type H reflective except as shown

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background White Message – Black

MB5-1 and MB5-2 Background - Blue

Message - White

MK5-1 and MK5-2 Background - Green

Message - White

MM5-1 and MM5-2 Background - White

Message - Green

MN5-1 and MN5-2 Background - Brown

Message - White

M05-1 and M05-2 Background - Orange - Type F Reflective

Message - Black

MP5-1 and MP5-2 Background - White

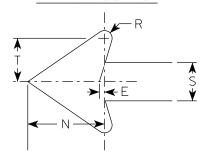
Message - Blue

MR5-1 and MR5-2 Background - Brown

Message - Yellow

- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



PLOT NAME :

SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	21		1 1/2	3/8	3/8		7	3 3/8	5/8	2	1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8	2	1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2	3		1/2					3.06
3	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 1/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

COUNTY:

STANDARD SIGN M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Forstate Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M51.dgn

PROJECT NO:

PLOT DATE: 13-FEB 2023 10:05

PLOT BY : dotc4c

- 1. Signs are Type II Type H Reflective except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

M06-1 and M06-2 Background - Orange - Type F Reflective

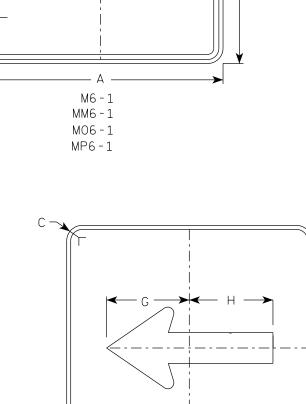
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



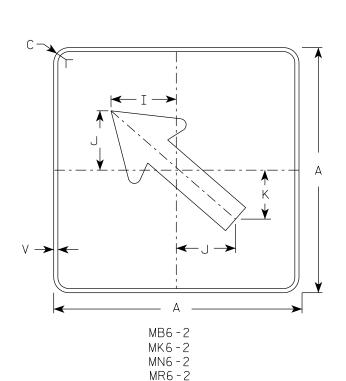
MB6-1

MK6-1

MN6-1

MR6-1

HWY:



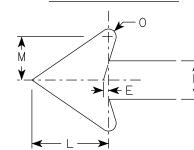
M6-2

MM6 - 2

MO6-2

MP6-2

ARROW DETAIL



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
25	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 1/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 2/13/2023 PLATE NO. M6-1.16 SHEET NO:

For State Traffic Engineer

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M61.dgn

PROJECT NO:

 $\vee \longrightarrow$

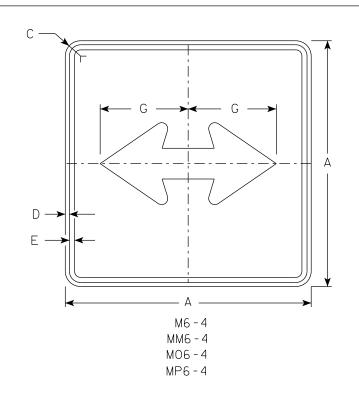
PLOT DATE: 13-FEB 2023 1:30

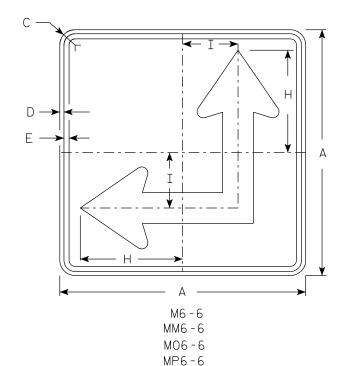
PLOT BY : dotc4c

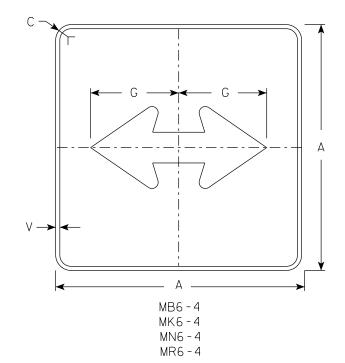
PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

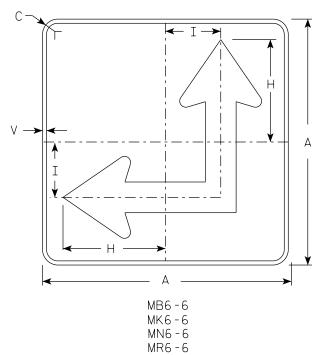
Ε







HWY:



NOTES

- 1. Signs are Type II Type H Reflective except as Shown
- 2. Color:

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White

Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

MM6-4 and MM6-6 Background - White

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

MP6-4 and MP6-6 Background - White

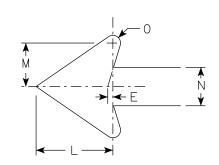
Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.

ARROW DETAIL



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 %	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 1/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 1/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-4.11

DATE 2/13/2023 PL

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_M64.dgn

PROJECT NO:

PLOT DATE : 13-FEB 2023 1:51

PLOT BY : dotc4c

PLOT NAME :



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Red Message - White

3. Message Series - C

*								— А — ;											A	
									H			- G -							F	A
		E						 	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. ____R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

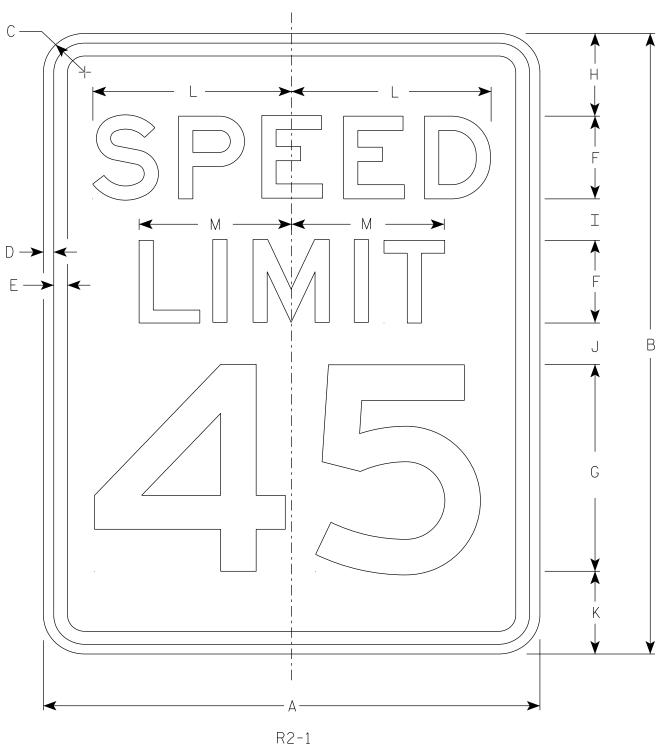
PLOT SCALE: 4.427909:1.000000

WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series E
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
25	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 1/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 1/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 1/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

COUNTY:

STANDARD SIGN R2-1

1/2 1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED .

DATE 2/1/23

S PLATE NO. R2-1.14

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R21.dgn

HWY:

PROJECT NO:

PLOT DATE: 9-JULY 2024 1:47

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

1



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

R11-3

** See Note 5

HWY:

В	C	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
30	1 7/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 1/8				12.5
30	1 7/8	1/2	5/8	6	5	3 1/2	16 1/8	5	1 3/8	23 1/4	3	6 1/4	13 %	1 1/8		1 1/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
)	30	30 1 7/8	18 1 ½ ¾ 30 1 ⅓ ½	18 1 ½ ¾ ¾ ¾ 30 1 ¾ ½ 5%	18 1 ½ 3/8 3/8 4 30 1 7/8 ½ 5/8 6	18 1 ½ 3/8 3/8 4 3 30 1 ½ ½ 5/8 6 5	18 1 ½ 3/8 3/8 4 3 2 30 1 ½ 5/8 6 5 3 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 30 1 ½ 5/8 6 5 3 ½ 16 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 30 1 ½ 5/8 6 5 3 ½ 16 ½ 5 1 3/8 23 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ½ 15 3/8 2 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 3/8 23 ¼ 3	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 15 ¾ 2 3 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ¾ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 30 1 ¾ ½ 5/8 6 5 3 ½ 16 ¾ 5 1 ¾ 23 ¼ 3 6 ¼ 13 ½ 1 ½	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 22 ⅓8	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ½8 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 11 ¾8 22 ⅓8 14 1 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓8 15 ¾8 2 3 ¾4 8 ¼4 5/8 1 ¾8 13 ¼4 8 ¾8 ¼8 10 ½ 30 1 ¾8 ½ 5/8 6 5 3 ½ 16 ¾8 5 1 ¾8 23 ¼4 3 6 ¼4 13 ½8 1 ⅓8 1 ¾8 12 ½8 14 1 ½2 17 ½2	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<></td></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ½ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<></td></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ 1 ¼ 1 ¼ 1 ¼ 1 ½ <t< td=""><td>18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<></td></t<>	18 1 ½ 3/8 3/8 4 3 2 11 ¼ 3 1 ⅓ 15 ¾ 2 3 ¾ 8 ¼ 5/8 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¾ 1 ¼ <t< td=""></t<>

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther & Rawh

For State Traffic Engineer

SHEET NO:

DATE <u>2/5/24</u> PLATE NO. <u>R11-3.10</u>

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:30

PLOT BY: mscj9h

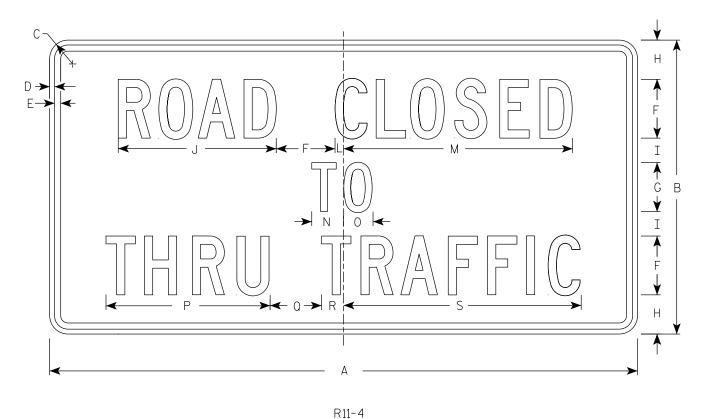
PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$
WISDOT/CADDS SHEET 42

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



K11-2

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Υ	Z	Area sq. ft.
1																											
25	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 1/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew K Kaush For State Traffic Engineer

SHEET NO:

DATE 2/5/24

PLATE NO. R11-4.4

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R114.dgn

HWY:

PROJECT NO:

PLOT DATE : 5-FEB 2024 2:54

PLOT BY: mscj9h

PLOT NAME: PLOT SCALE: \$\$.

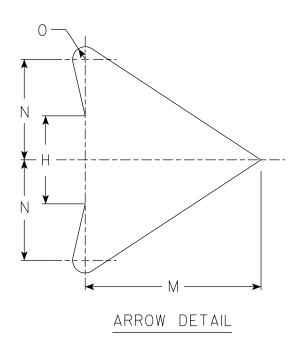
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

7

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow Message - Black

3. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



MI-	W	1-	·2F	
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HWY:

SIZE	: A	Δ	В	С	D	E	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Z	Area sq. ft.
1	2	24		1 1/2	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
25	3	30		1 1/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2N	3	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	3	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	3	36		2 1/4	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	4	18		3	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/23/2023 PLATE NO. W1-2.11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W12.dgn

PROJECT NO:

PLOT DATE: 23-MARCH 2023 7:16

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

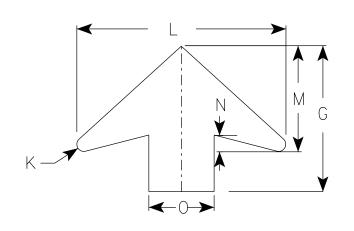
ı

- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Arrow & Border - Black

Stop Symbol - White Border on Red Background



ARROW DETAIL

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Υ	Z	Area sq. ft.
1	30		1 1/8	1/2	5/8	6 1/4	11 1/4	2 1/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
25	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
3	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		3	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7/8	25 %	13	2	8												16.0
5	48		3	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7/8	25 %	13	2	8												16.0

DATE 8/17/2023 PLATE NO. W3-1.13 Ε SHEET NO:

For State Traffic Engineer

STANDARD SIGN

WISCONSIN DEPT OF TRANSPORTATION

W3-1

FILE NAME : C:\CAEfiles\Project\tr_stdplate\W31.dgn

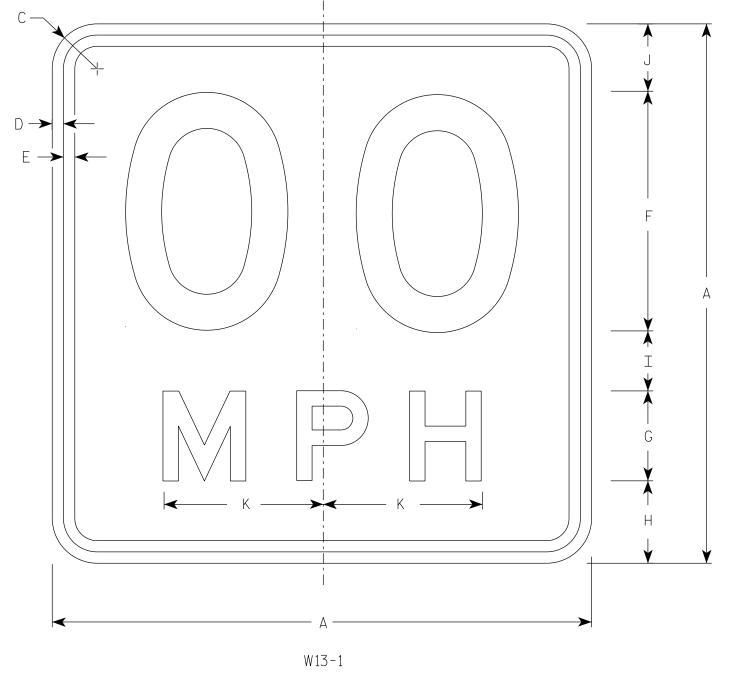
PROJECT NO:

PLOT DATE: 17-AUG 2023 2:30

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

W3 - 1



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow Message - Black

- 3. Message Series See Note 5
- 4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 5. Line 1 is Series D Line 2 is Series E

 \star For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs. For $36" \times 36"$ Warning Signs, use $24" \times 24"$ W13-1 signs.

SIZ	E A	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	w	X	Y	Z	Area sq. ft.
1	18	3	1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 25	3 18	3	1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
X 2N	/ 18	3	1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	2		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	3	6	2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	3	6	2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10																9.00

COUNTY:

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED Matthew & Kauch

DATE 1/8/2024 PLATE NO. W13-1.17

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W131.dgn

HWY:

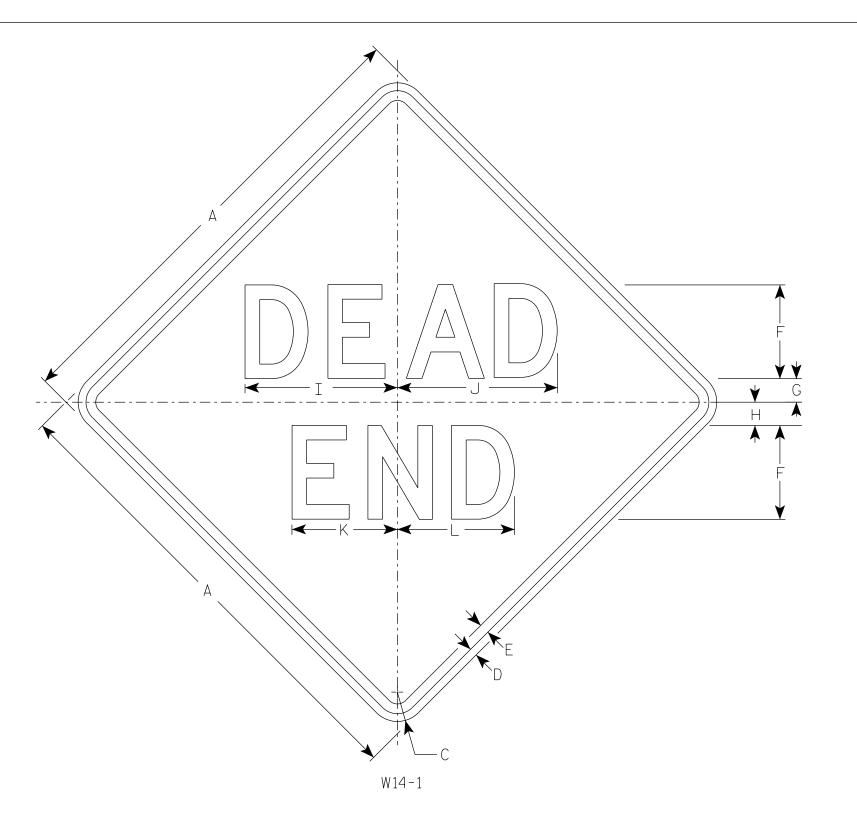
PROJECT NO:

PLOT DATE: 8-Jan 2024 11:07

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow Message – Black

3. Message Series - D

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	١	М	N	0	Р	a	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	5	1	2	8 1/4	8 %	5 %	6 1/4															4.0
25	30		1 1/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 1/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		2 1/4	5/8	3/4	7	2	3	11 3/8	12	7 1/8	8 3/4															9.0
4																											
5																											

COUNTY:

STANDARD SIGN W14 - 1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

DATE 1/8/2024 PLATE NO. W14-1.8

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W141.dgn

HWY:

PROJECT NO:

PLOT DATE: 8-Jan 2024 2:36

PLOT BY : dotc4c

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D.
 Line 3 is Series D for AHEAD and
 Series C for all other distances.

1
W20-3D
$\begin{array}{c c} \hline & & & \\ \hline $
W20-3B
W20-3G

W20-3A

HWY:

SIZE	А	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 1/8	12 1/2	11	9	6	10 1/8	2 1/2	1 1/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4 1 3/4	9.0
25	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 %	7 1/2	10 %	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 1/8	6	4 5/8	14 3/8 2 3/8	16.0

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

SHEET NO:

HEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN

PROJECT NO:

COUNTY: PLOT DATE: 10-JAN 2024 12:02

PLOT BY : dotc4c

PLOT NAME :

CTH K

			AREA (SF)		INCREM	MENTAL VOL (CY) (UNAD.	IUSTED)		CUMULA	TIVE VOL (CY)
	REAL					SALVAGED/UNUSABLE		CUT	EXPANDED	
STATION	STATION	CUT	SALVAGED/UNUSABLE	FILL	CUT	PAVEMENT MATERIAL	FILL		FILL	MASS ORDINATE
			PAVEMENT MATERIAL		NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 4
10+25.00	1025.00	44.97	11.18	0.27	0	0	0	0	0	0
10+23.00	1050.00	50.00	11.42	3.70	44	10	2	44	3	32
10+66.00	1066.00	35.10	11.59	6.44	25	7	3	69	6	46
10+70.00	1070.00	32.33	11.62	8.56	5	2	1	74	8	48
10+75.00	1075.00	30.38	12.20	17.34	6	2	2	80	10	49
10+80.00	1080.00	31.27	14.08	6.76	6	2	2	86	13	51
10+85.00	1085.00	34.48	16.77	1.53	6	3	1	92	14	52
10+90.00	1090.00	30.81	16.95	0.81	6	3	0	98	14	55
10+95.00	1095.00	26.54	15.07	0.90	5	3	0	103	14	57
11+00.00	1100.00	23.39	13.20	1.35	5	3	0	108	14	59
11+05.00	1105.00	22.85	12.83	3.17	4	2	0	112	14	61
11+10.00	1110.00	25.94	14.73	3.40	5	3	1	117	15	62
11+15.00	1115.00	29.76	16.61	1.51	5	3	0	122	15	64
11+20.00	1120.00	36.19	14.55	0.43	6	3	0	128	15	67
11+25.00	1125.00	46.34	12.69	0.22	8	3	0	136	15	72
11+30.00	1130.00	41.00	11.63	0.24	8	2	0	144	15	78
11+35.00	1135.00	39.16	11.62	1.06	7	2	0	151	15	83
11+40.00	1140.00	39.16	11.62	2.60	7	2	0	158	15 16	88
11+50.00 11+78.00	1150.00 1178.00	44.38 53.70	11.60 11.61	1.55 2.55	15 51	4 12	1 2	173 224	16 19	98 134
12+00.00	1200.00	52.73	11.60	0.79	43	12 9	1	267	20	167
12+08.00	1208.00	55.22	11.59	0.73	16	3	0	283	20	180
12+50.00	1250.00	77.43	11.43	4.42	103	18	4	386	25	260
13+00.00	1300.00	67.12	11.55	7.15	134	21	11	520	39	359
13+45.00	1345.00	83.36	11.77	0.00	125	19	6	645	46	458
13+50.00	1350.00	85.81	11.74	0.00	16	2	0	661	46	472
14+00.00	1400.00	130.42	10.95	0.66	200	21	1	861	48	650
14+50.00	1450.00	106.32	11.33	1.37	219	21	2	1080	50	845
15+00.00	1500.00	59.65	11.10	19.52	154	21	19	1234	74	954
15+04.00	1504.00	122.51	11.14	22.18	13	2	3	1247	78	962
15+50.00	1550.00	43.45	10.96	29.67	141	19	44	1388	133	1029
16+00.00	1600.00	55.61	10.77	5.82	92	20	33	1480	174	1059
16+50.00	1650.00	60.84	10.84	2.98	108	20	8	1588	184	1137
16+96.00	1696.00	72.25	27.08	0.00	113	32	3	1701	188	1215
17+00.00	1700.00	70.43	27.57	0.00	11	4	0	1712	188	1222
17+50.00	1750.00	38.46	12.07	11.20	101	37	10	1813	200	1273
17+56.00	1756.00	36.19	12.05	7.31	8	3	2	1821	203	1276
18+00.00 18+50.00	1800.00 1850.00	5.26 0.00	11.82 11.97	17.92 54.32	34 5	19 22	21 67	1855 1860	229 313	1264 1164
19+00.00	1900.00	0.00	11.91	80.27	0	22	125	1860	469	985
19+50.00	1950.00	0.00	11.76	82.18	0	22	150	1860	656	776
19+64.50		0.00	11.63	88.80	0	6	46	1860	714	712
19+65.00	1965.00	0.00	11.62	88.54	0	0	2	1860	716	710
19+70.00	1970.00	0.00	11.90	90.32	0	2	17	1860	738	687
19+75.00	1975.00	0.00	13.09	93.91	0	2	17	1860	759	663
19+80.00	1980.00	0.00	15.14	82.28	0	3	16	1860	779	640
19+85.00	1985.00	0.01	17.33	78.74	0	3	15	1860	798	619
19+90.00	1990.00	0.00	15.42	77.39	0	3	14	1860	815	598
19+95.00	1995.00	0.00	13.51	74.33	0	3	14	1860	833	578
20+00.00	2000.00	0.00	11.60	72.31	0	2	14	1860	850	558
20+05.00	2005.00	0.00	12.34	72.37	0	2	13	1860	866	540
20+10.00	2010.00	0.00	14.22	72.34	0	2	13	1860	883	522
20+15.00	2015.00	0.00	14.96	71.06	0	3	13	1860	899	502
20+20.00	2020.00	0.00	12.86	74.74	0	3	14	1860	916	482
20+25.00	2025.00	0.00	12.26	77.78	0	2 2	14	1860	934	462
20+30.00 20+35.00	2030.00 2035.00	0.28 1.09	12.04 11.82	78.78 72.75	0		14	1860 1860	951 969	443 423
20+35.00	2035.00	1.09	11.66	72.75 70.93	0	2 2	14 9	1860	989	410
20+50.00	2050.00	5.53	11.29	67.88	2	5	30	1862	1018	370
21+00.00	2100.00	24.44	11.34	61.93	28	21	120	1890	1168	227
21.00.00	2100.00	2 1.77	11.57	01.55		<u></u>	120	1000	1100	221

CTH K CONT.

			AREA (SF)		INCRE	MENTAL VOL (CY) (UNADJ	USTED)	CUM	1ULATIVE VO	DL (CY)
STATION	REAL STATION	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
21+50.00	2150.00	34.24	11.11	83.03	54	21	134	1944	1335	92
22+00.00	2200.00	24.38	11.19	108.24	54	21	177	1998	1556	-96
22+50.00	2250.00	16.55	11.72	90.54	38	21	184	2036	1786	-309
23+00.00	2300.00	26.33	11.78	75.39	40	22	154	2076	1979	-484
23+50.00	2350.00	51.05	12.05	30.35	72	22	98	2148	2101	-556
23+68.00	2368.00	58.93	12.28	34.25	37	8	22	2185	2129	-555
24+00.00	2400.00	77.48	13.58	0.01	81	15	20	2266	2154	-514
24+18.18	2418.18	73.09	14.18	0.00	51	9	0	2317	2154	-472
24+20.00	2420.00	71.39	14.58	0.00	5	1	0	2322	2154	-468
24+25.00	2425.00	63.18	15.67	1.11	12	3	0	2334	2154	-459
24+30.00	2430.00	62.17	15.85	5.26	12	3	1	2346	2155	-451
24+35.00	2435.00	66.72	17.58	10.40	12	3	1	2358	2156	-443
24+40.00	2440.00	75.75	20.05	6.76	13	3	2	2371	2159	-436
24+45.00	2445.00	87.10	23.05	0.00	15	4	1	2386	2160	-426
24+50.00	2450.00	90.15	21.92	0.00	16	4	0	2402	2160	-414
24+55.00	2455.00	64.63	20.58	0.00	14	4	0	2416	2160	-404
24+60.00	2460.00	44.10	14.48	0.00	10	3	0	2426	2160	-397
24+65.00	2465.00	24.84	8.32	0.00	6	2	0	2432	2160	-393
24+70.00	2470.00	6.06	2.16	0.00	3	1	0	2435	2160	-391
				TOTALS	2,435	666	1,728			

SCHOOL LANE

			AREA (SF)		INCRE	MENTAL VOL (CY) (UNAD	IUSTED)	CUM	1ULATIVE VC	DL (CY)
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAI	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
			PAVLIVILINI IVIATLINIAL		NOTE 1	NOTE 2	NOTE 3	NOTE 1	1.23	NOTE 4
60+55.00	0.00	0.00	10.07	0.00	0	0	0	0	0	0
60+75.00	20.00	45.21	10.20	15.41	17	8	6	17	8	2
61+00.00	25.00	47.08	10.36	5.35	43	10	10	60	20	22
61+05.00	5.00	47.96	10.65	4.86	9	2	1	69	21	28
61+10.00	5.00	46.90	11.19	7.69	9	2	1	78	23	34
61+15.00	5.00	49.34	12.34	3.05	9	2	1	87	24	39
61+20.00	5.00	36.77	14.69	0.00	8	3	0	95	24	44
61+25.00	5.00	17.42	10.57	0.00	5	2	0	100	24	47
61+30.00	5.00	4.91	3.97	0.00	2	1	0	102	24	48
				TOTALS	102	30	19			

CEMETERY ROAD

		AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
		CUT	PAVEMENT MATERIAL	FILL				1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
70+15.00	0.00	0.00	3.97	3.42	0	0	0	0	0	0
70+20.00	5.00	0.00	10.57	8.75	0	1	1	0	1	-2
70+25.00	5.00	0.18	17.18	13.13	0	3	2	0	4	-8
70+30.00	5.00	2.65	11.44	27.61	0	3	4	0	9	-16
70+35.00	5.00	4.18	9.93	33.15	1	2	6	1	16	-24
70+40.00	5.00	5.76	8.99	31.77	1	2	6	2	24	-33
70+50.00	10.00	7.30	8.64	27.33	2	3	11	4	38	-48
70+75.00	25.00	16.10	9.13	11.01	11	8	18	15	60	-67
71+00.00	25.00	31.26	9.36	0.29	22	9	5	37	66	-60
71+09.50	9.50	36.20	9.36	0.00	12	3	0	49	66	-51
71+25.00	15.50	44.25	9.26	0.23	23	5	0	72	66	-33
71+35.00	10.00	0.00	9.09	0.00	8	3	0	80	66	-28
				TOTALS	80	42	53			

HWY: CTH K PROJECT NO: 5975-00-70 FILE NAME :

COUNTY: IOWA

PLOT DATE : 1/3/2025 9:21 AM

EARTHWORK DATA PLOT BY: ERIK MEYER

PLOT NAME :

SHEET PLOT SCALE :

WISDOT/CADDS SHEET 49

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9

EARTHWORK DATA TABLES UPDATED TO EXCLUDE FUTURE FUNDED PROJECT GRADING.

SW QUAD CTH K & STH 39

			AREA (SF)		INCREM	MENTAL VOL (CY) (UNAD	IUSTED)	CUM	1ULATIVE VC	DL (CY)
STATION	REAL STATION	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4
3+82.51	382.51	7.10	1.28	1.19	0	0	0	0	0	0
3+85.00	385.00	8.13	1.61	10.96	1	0	1	1	1	0
3+88.51	388.51	11.64	2.05	6.82	1	0	1	2	3	-1
3+90.00	390.00	12.79	2.22	4.73	1	0	0	3	3	1
3+95.00	395.00	14.36	1.54	0.72	3	0	1	6	4	2
4+00.00	400.00	17.33	1.65	0.06	3	0	0	9	4	5
4+05.00	405.00	19.40	2.01	0.00	3	0	0	12	4	8
4+10.00	410.00	23.26	2.46	0.00	4	0	0	16	4	12
4+15.00	415.00	30.53	3.61	0.00	5	1	0	21	4	16
4+20.00	420.00	39.37	4.97	0.00	6	1	0	27	4	21
4+25.00	425.00	49.26	7.00	0.00	8	1	0	35	4	28
4+30.00	430.00	62.39	9.38	0.00	10	2	0	45	4	36
4+35.00	435.00	77.93	12.72	0.00	13	2	0	58	4	47
4+37.15	437.15	86.18	14.36	0.00	7	1	0	65	4	53
				TOTALS	65	8	3			

SE QUAD CTH K & STH 39

			AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAI	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 4	
0+40.17	0.00	34.72	19.23	6.81	0	0	0	0	0	0	
0+45.00	4.83	26.23	13.99	4.80	5	3	1	5	1	1 1	
0+50.00	5.00	21.63	10.16	2.94	4	2	1	9	3	2	
0+55.00	5.00	17.89	7.45	2.07	4	2	0	13	3	4	
0+60.00	5.00	14.58	5.58	1.23	3	1	0	16	3	6	
0+65.00	5.00	12.44	4.10	0.81	3	1	0	19	3	8	
0+70.00	5.00	11.50	3.09	1.12	2	1	0	21	3	9	
0+75.00	5.00	11.17	2.22	0.72	2	0	0	23	3	11	
0+78.44	3.44	11.21	2.00	0.45	1	0	0	24	3	12	
0+96.57	18.13	12.11	1.47	0.00	8	1	0	32	3	19	
1+00.00	3.43	11.28	1.32	0.00	1	0	0	33	3	20	
1+25.00	25.00	8.72	0.83	0.18	9	1	0	42	3	28	
1+27.19	2.19	8.69	0.81	0.12	1	0	0	43	3	29	
			L	TOTALS	43	12	2				

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - MASS ORDINATE	CUT - SALVAGED PAVT - (FILL * FILL FACTOR)

E HWY: CTH K COUNTY: IOWA EARTHWORK DATA SHEET PROJECT NO: 5975-00-70

PLOT BY: ERIK MEYER

PLOT NAME :

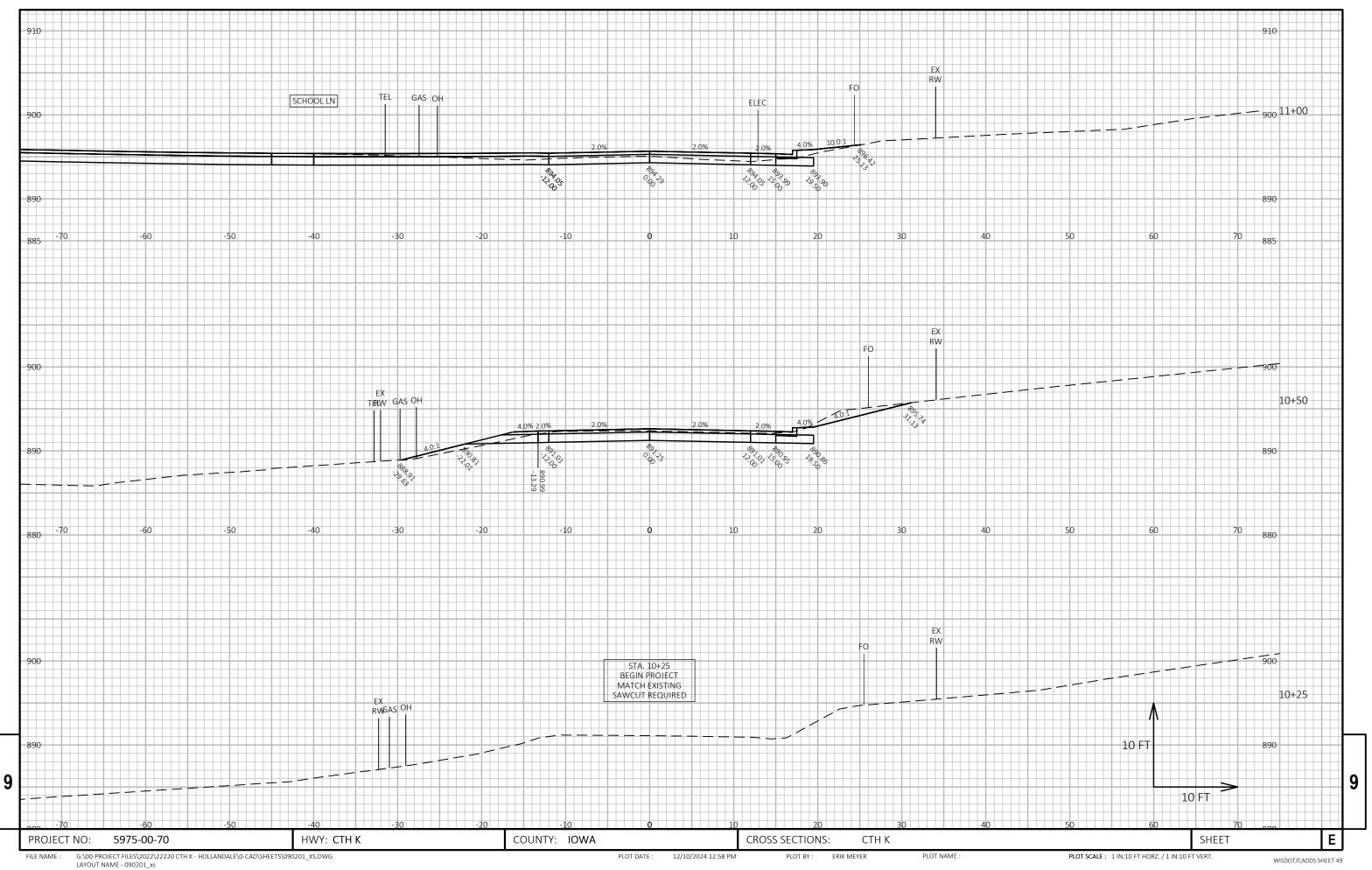
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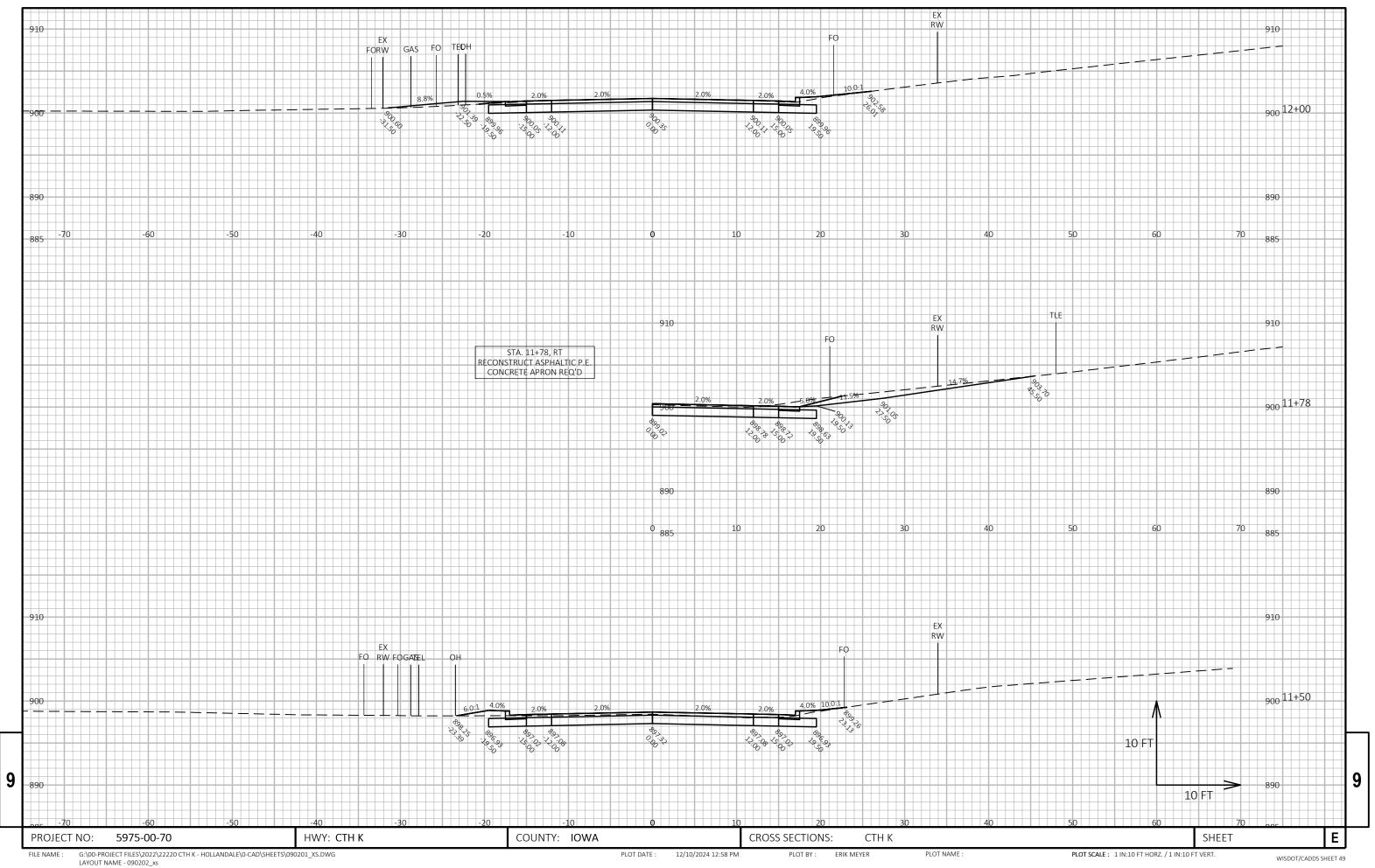
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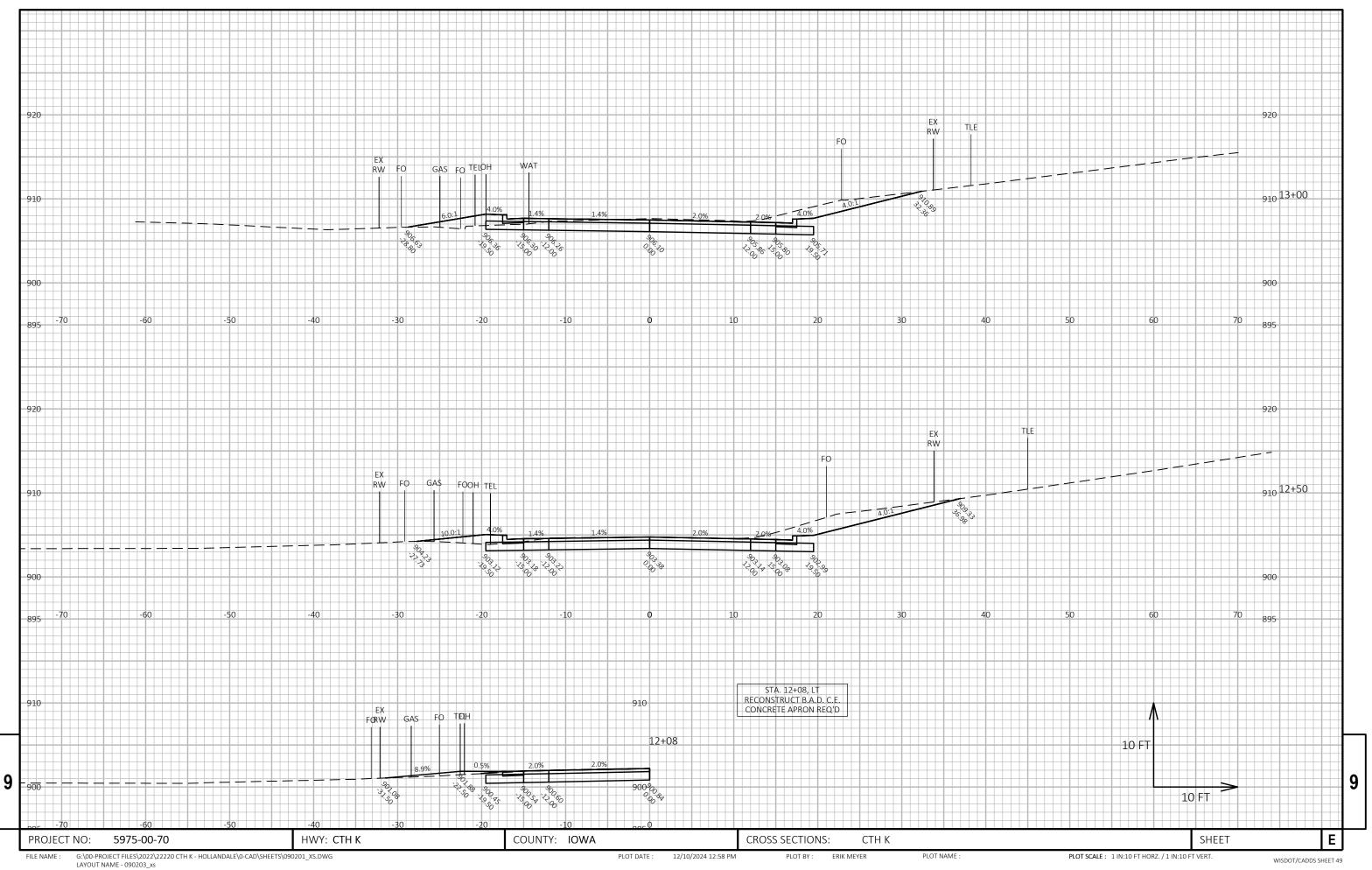
WISDOT/CADDS SHEET 49

PLOT SCALE : 1" = 1'

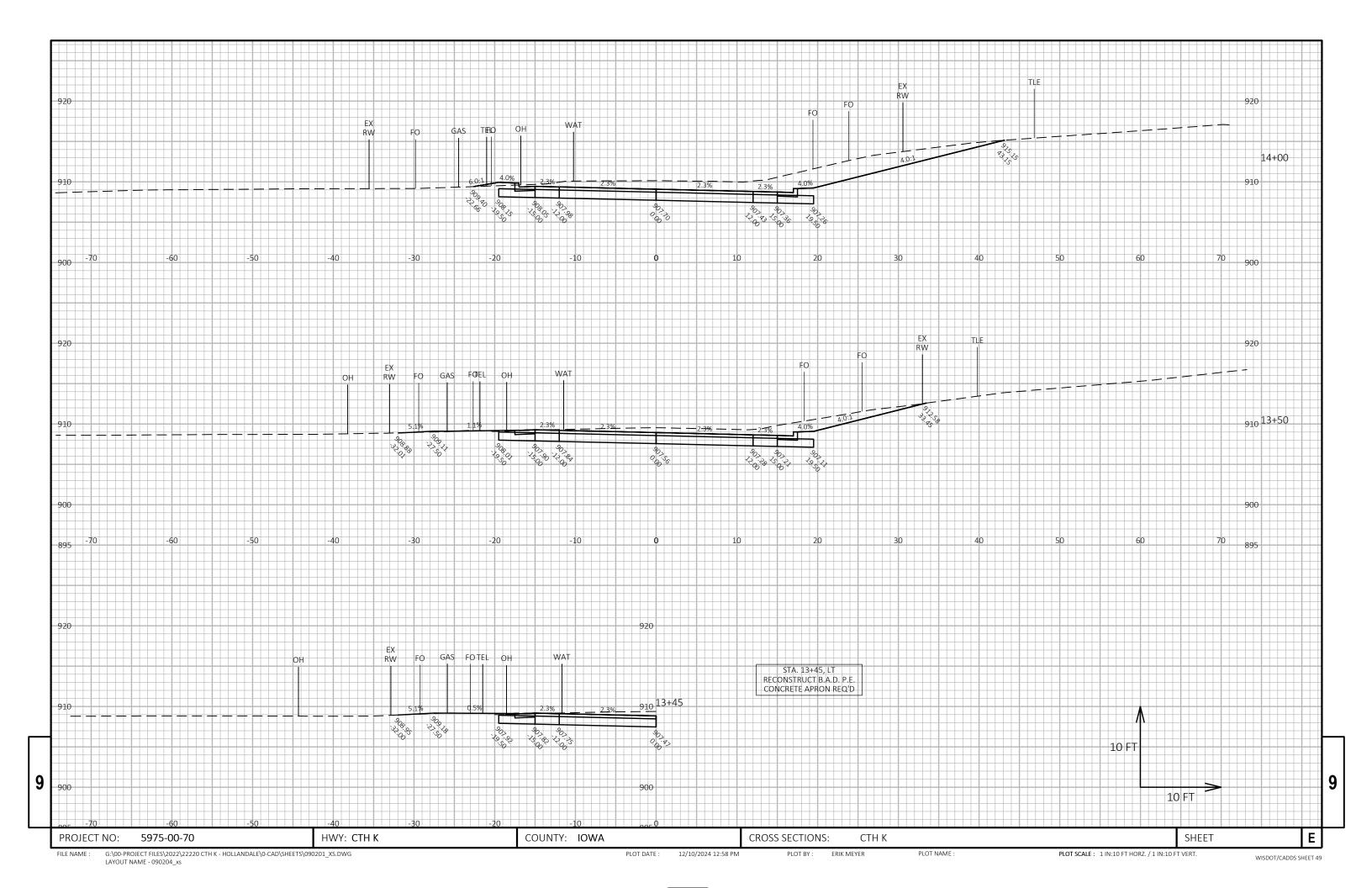
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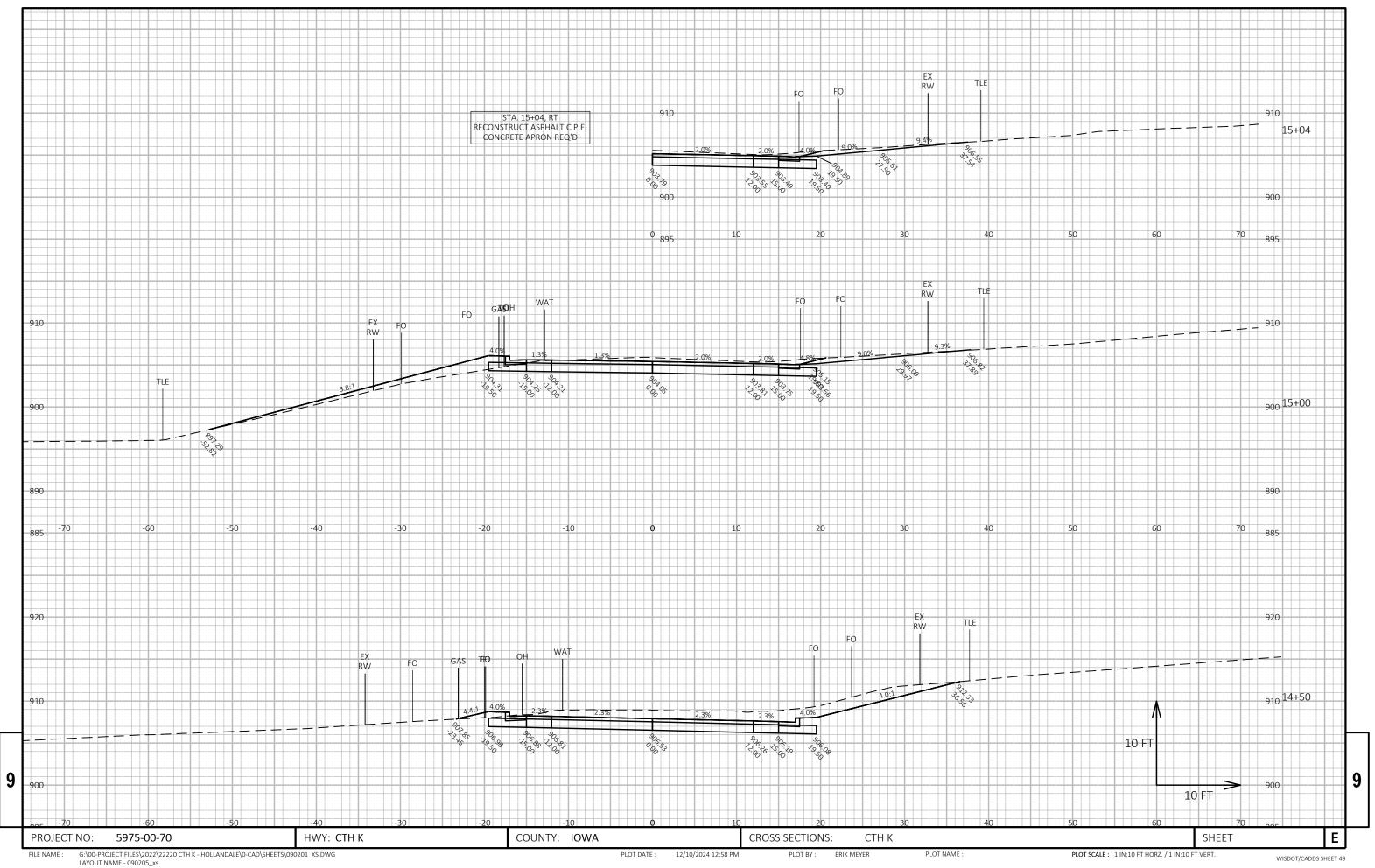




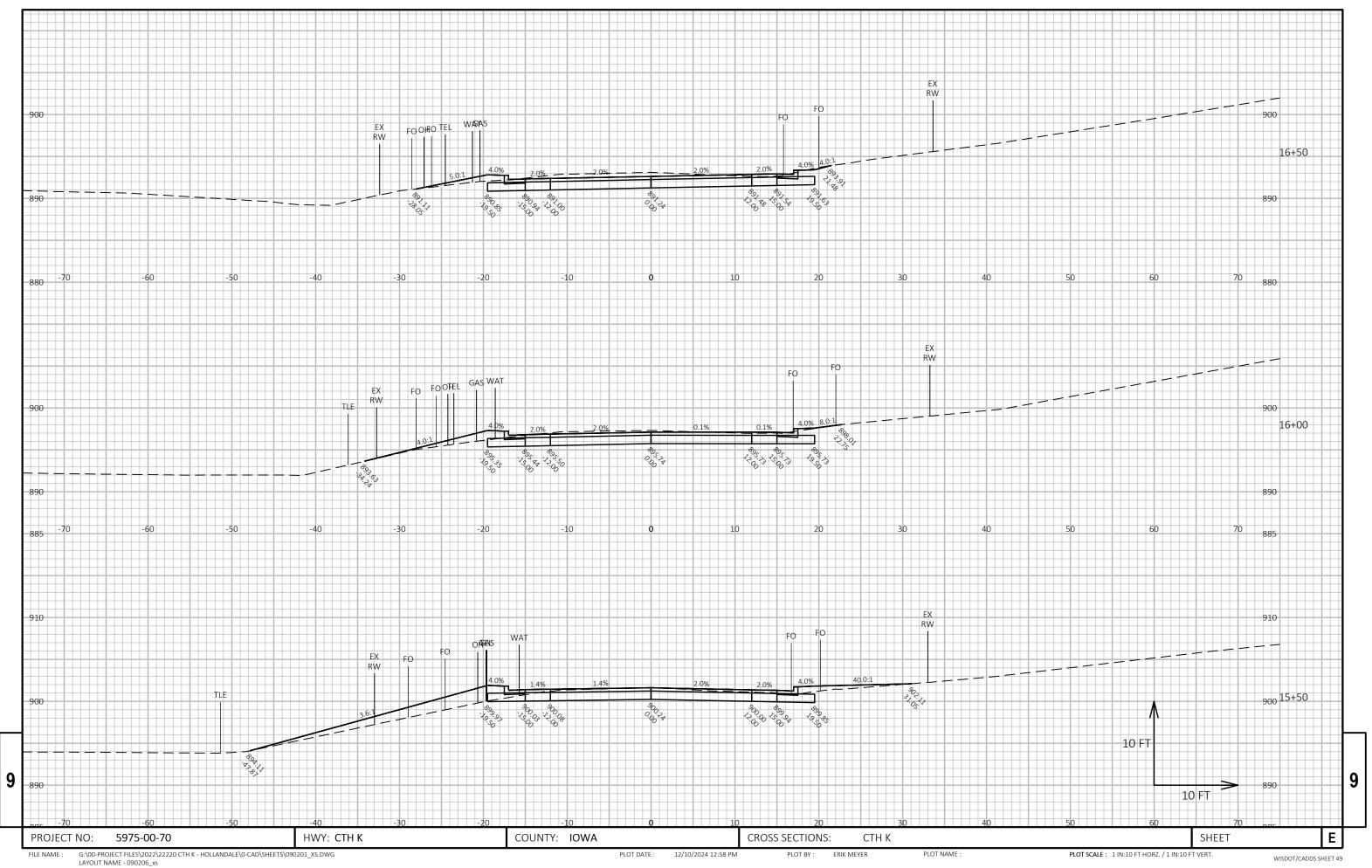


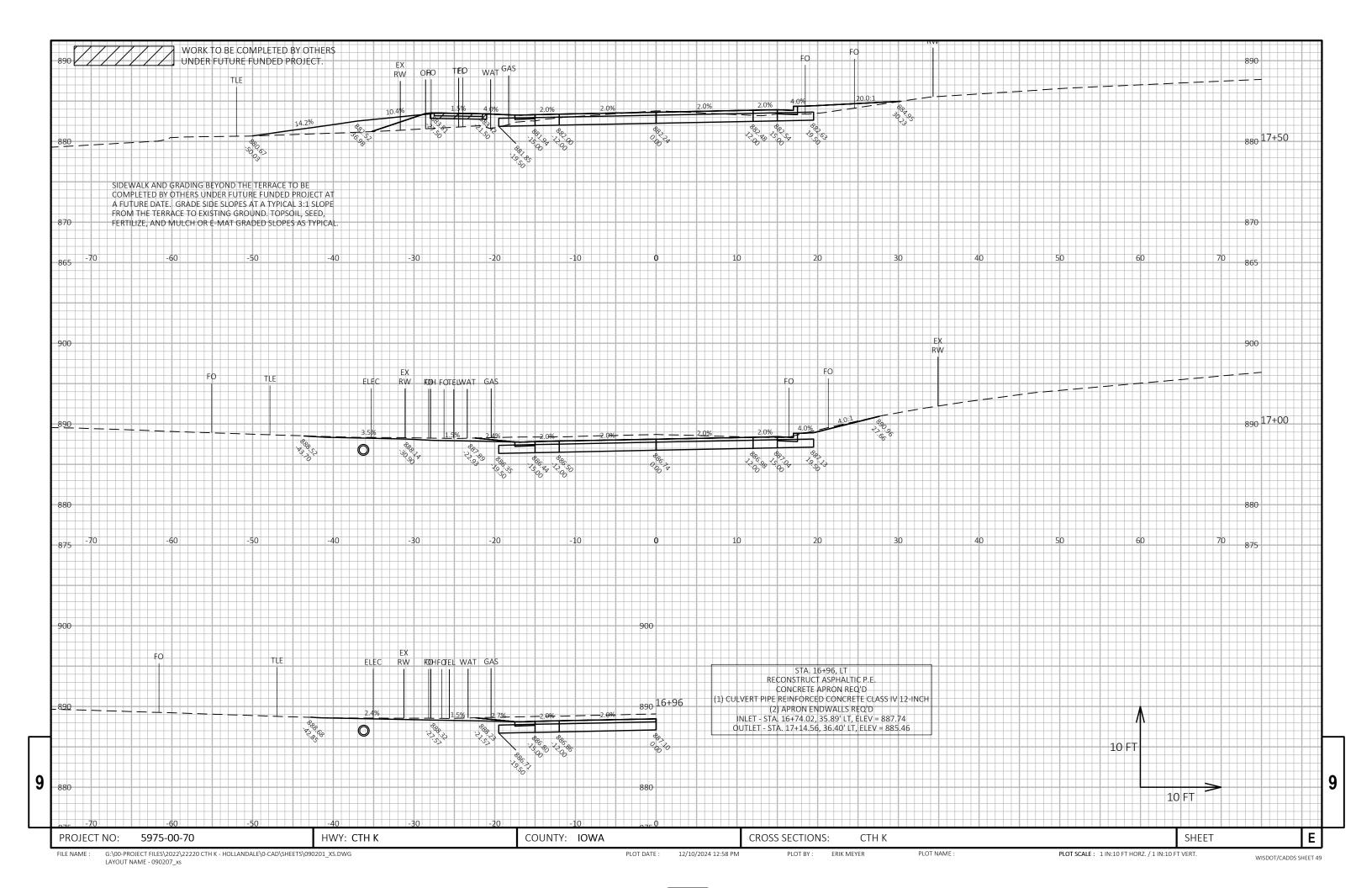
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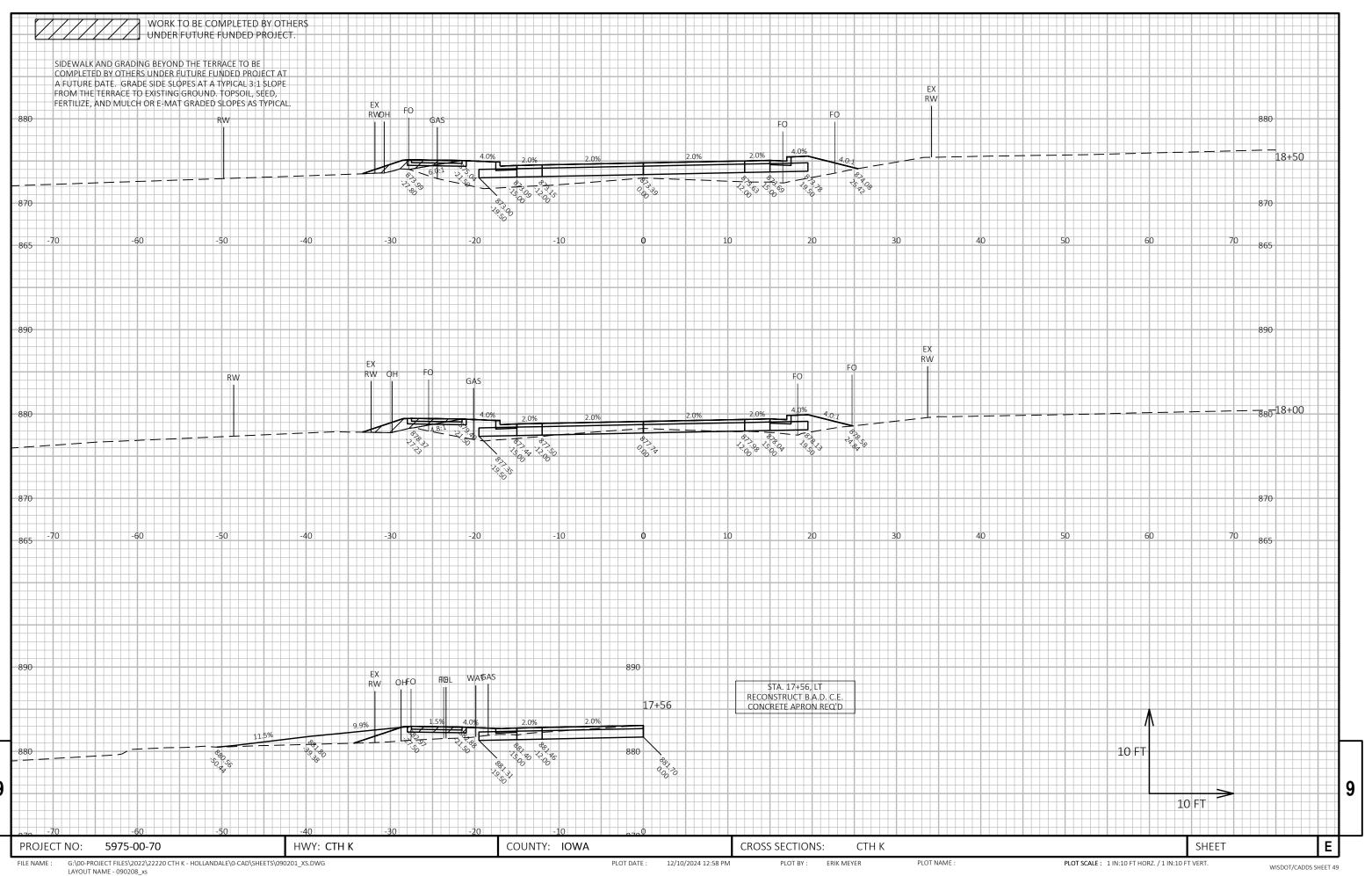


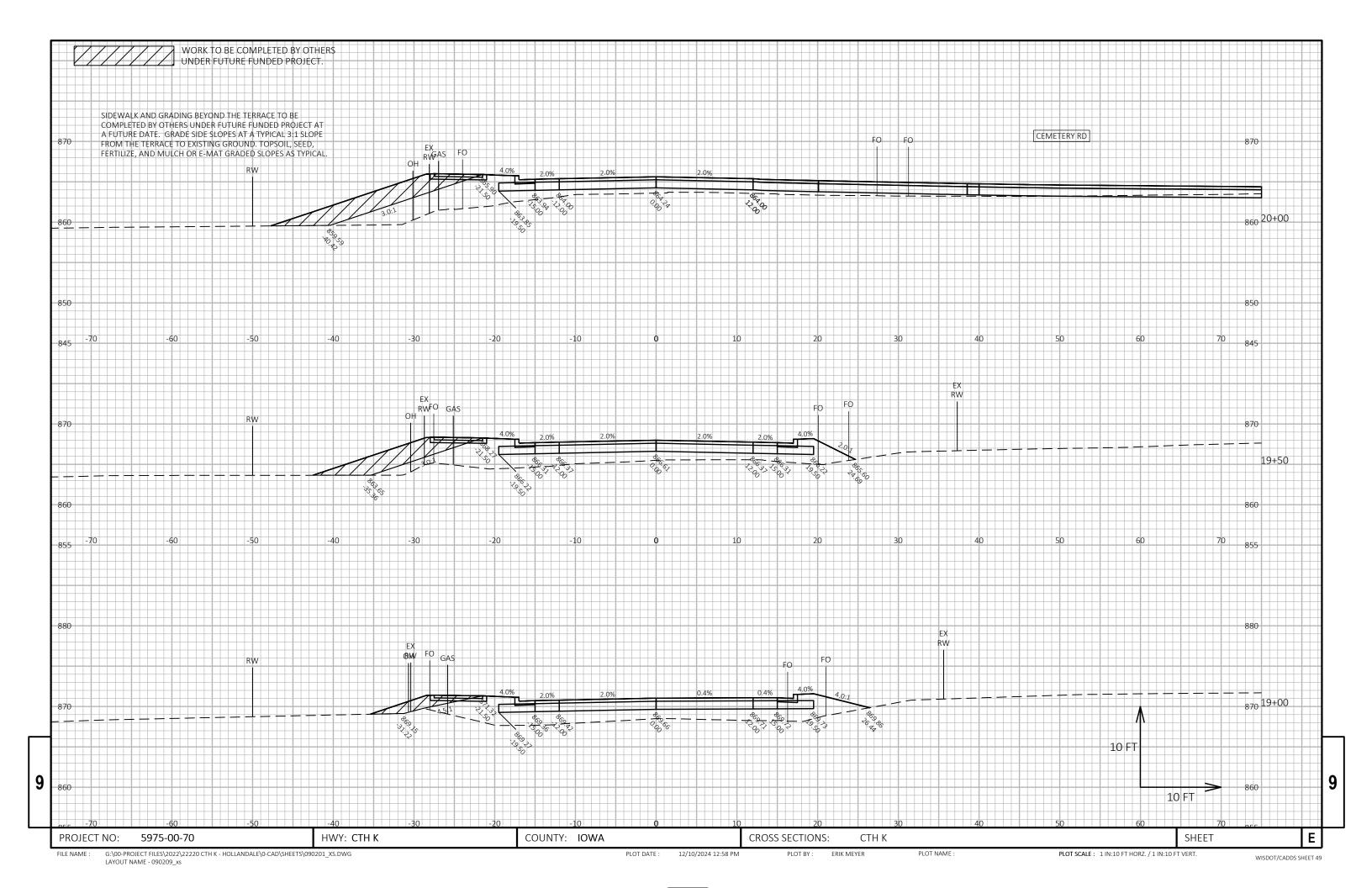


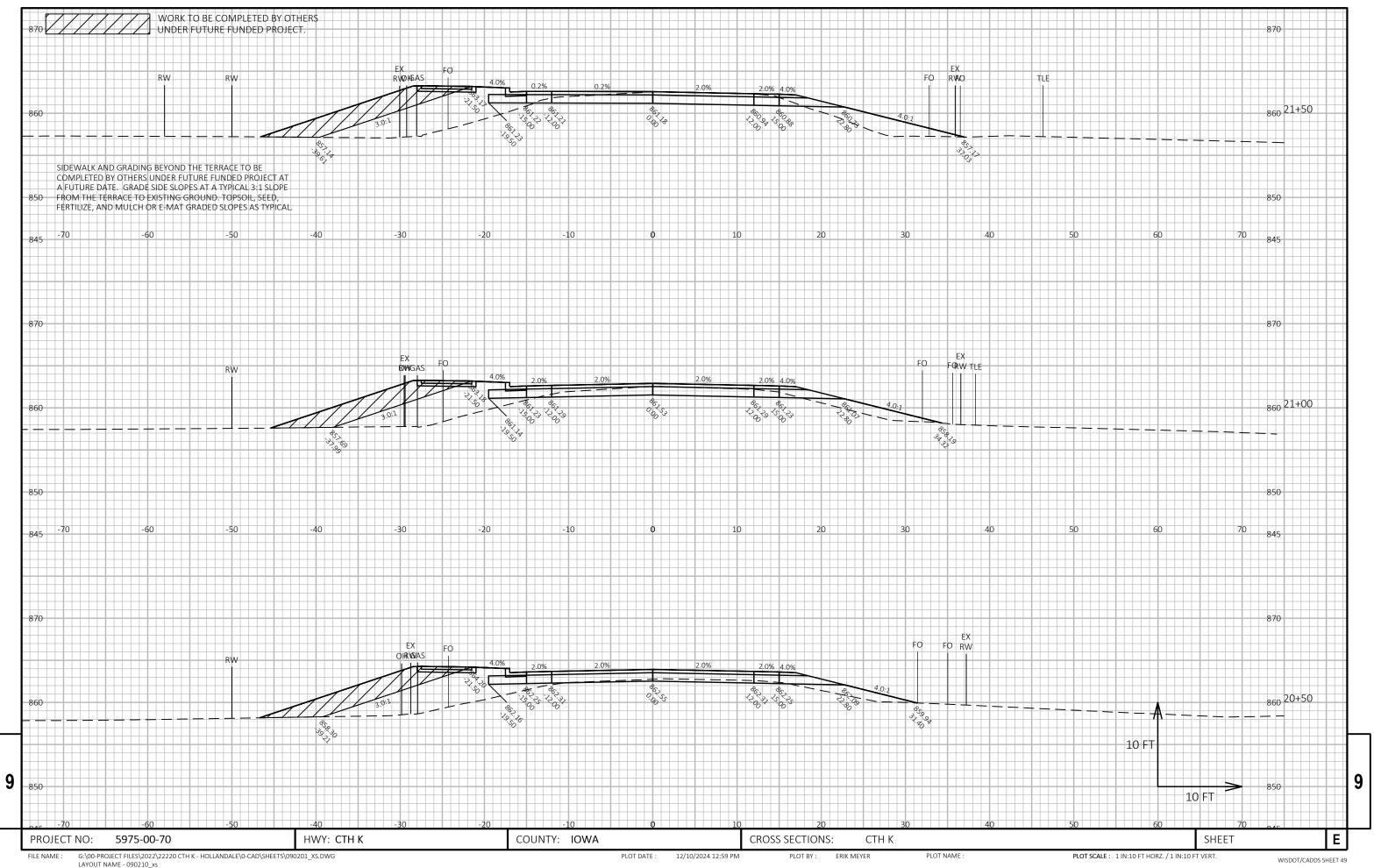
EATOUT NAME - 050203_X

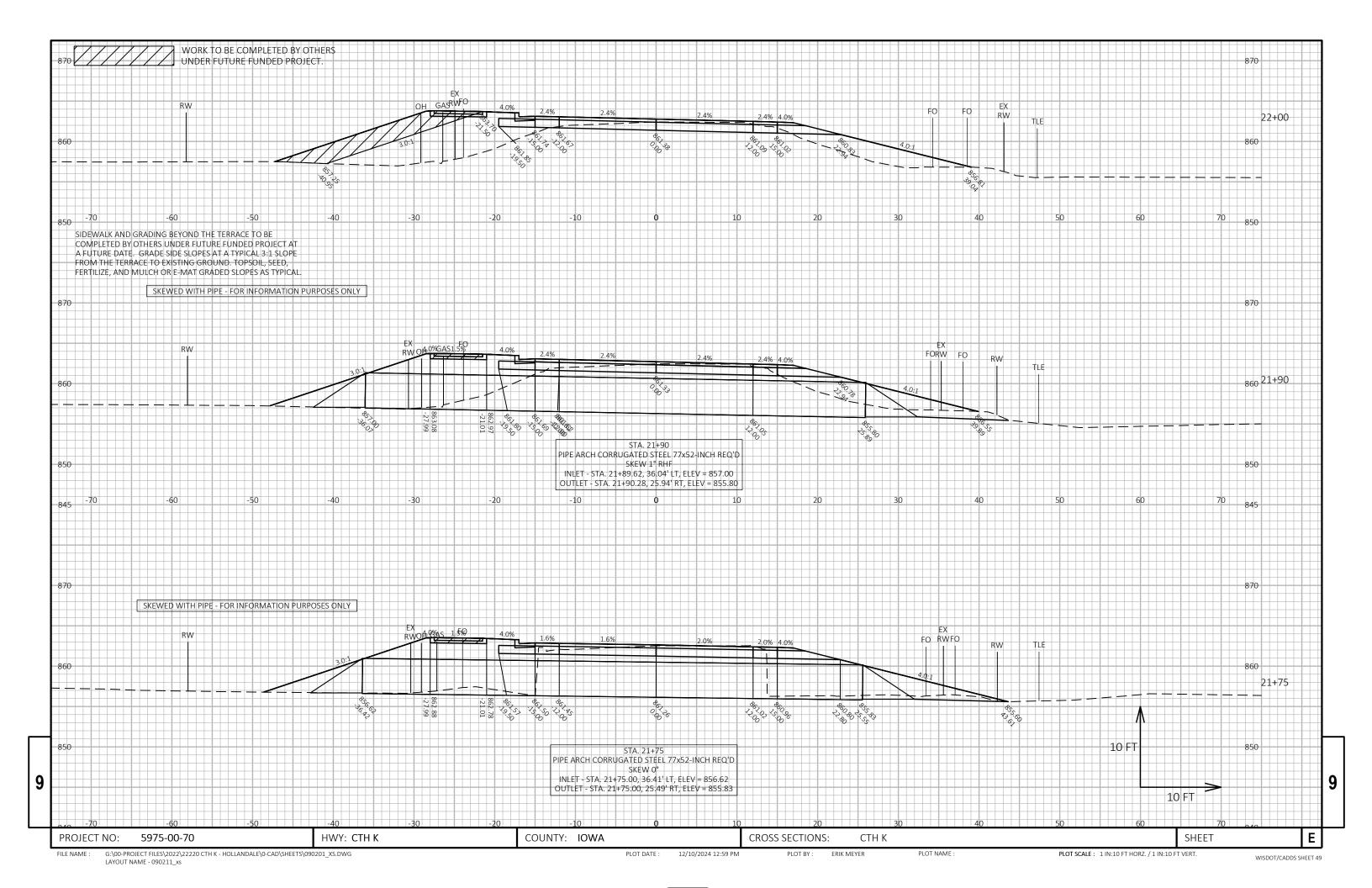


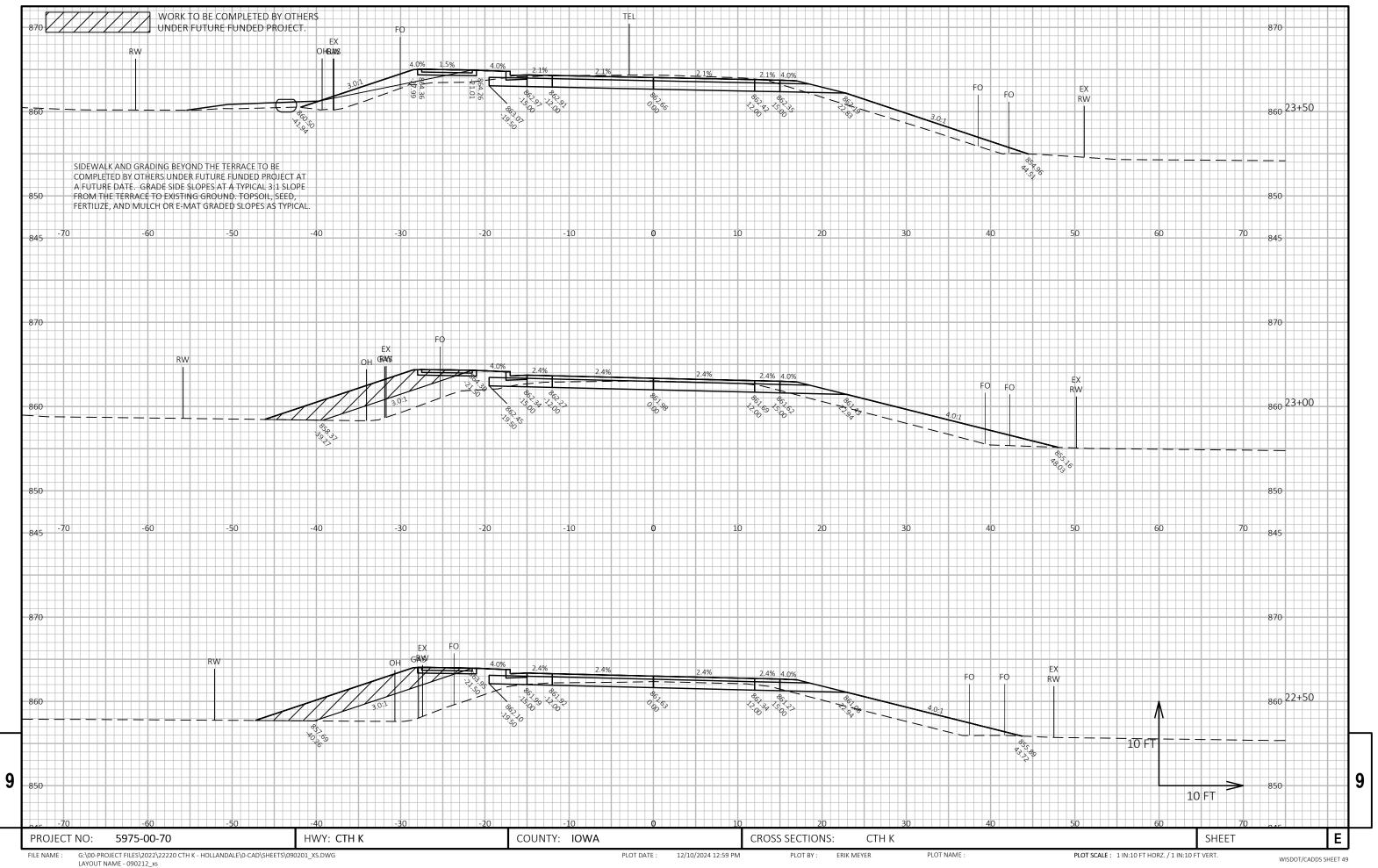


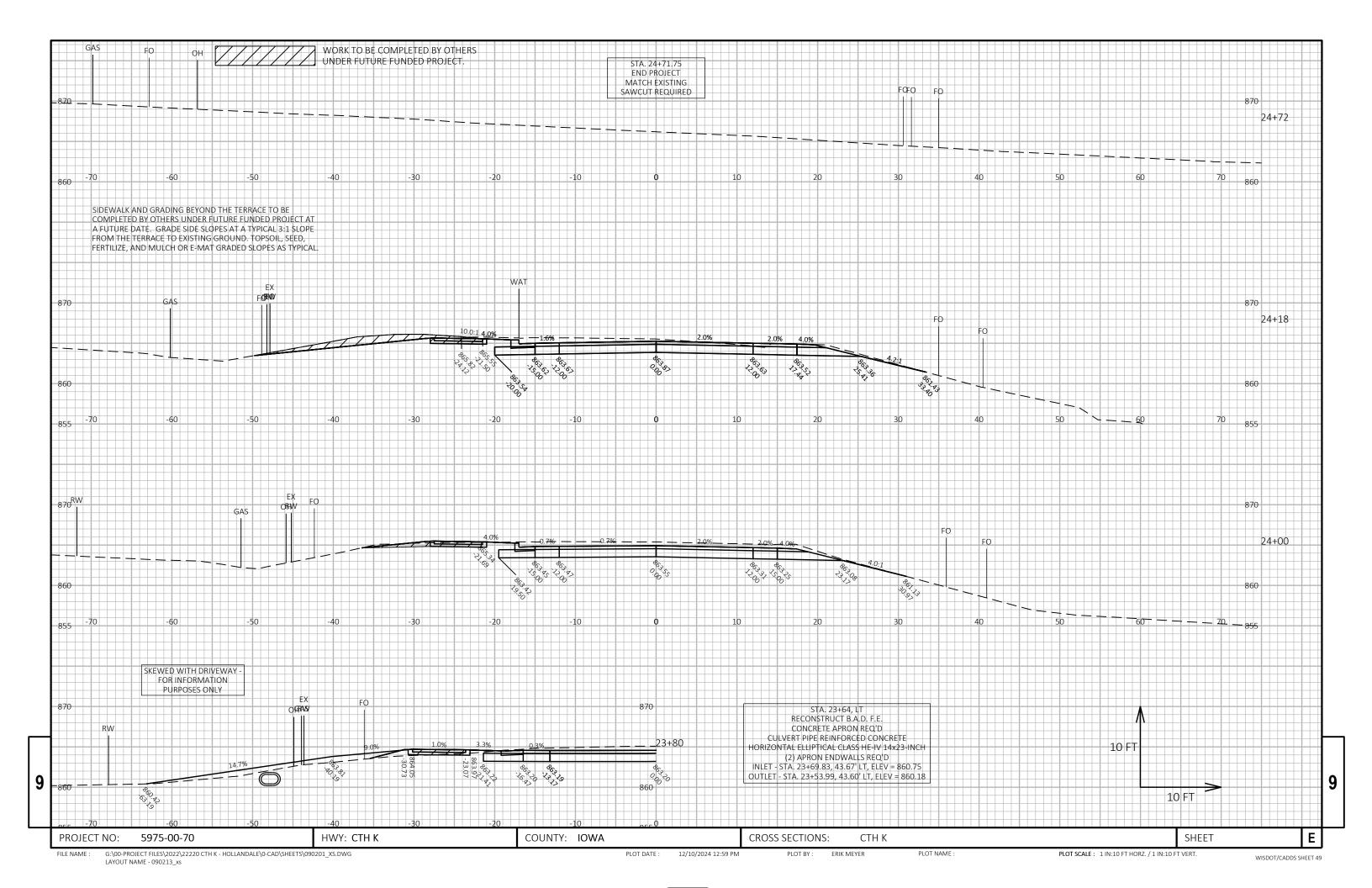


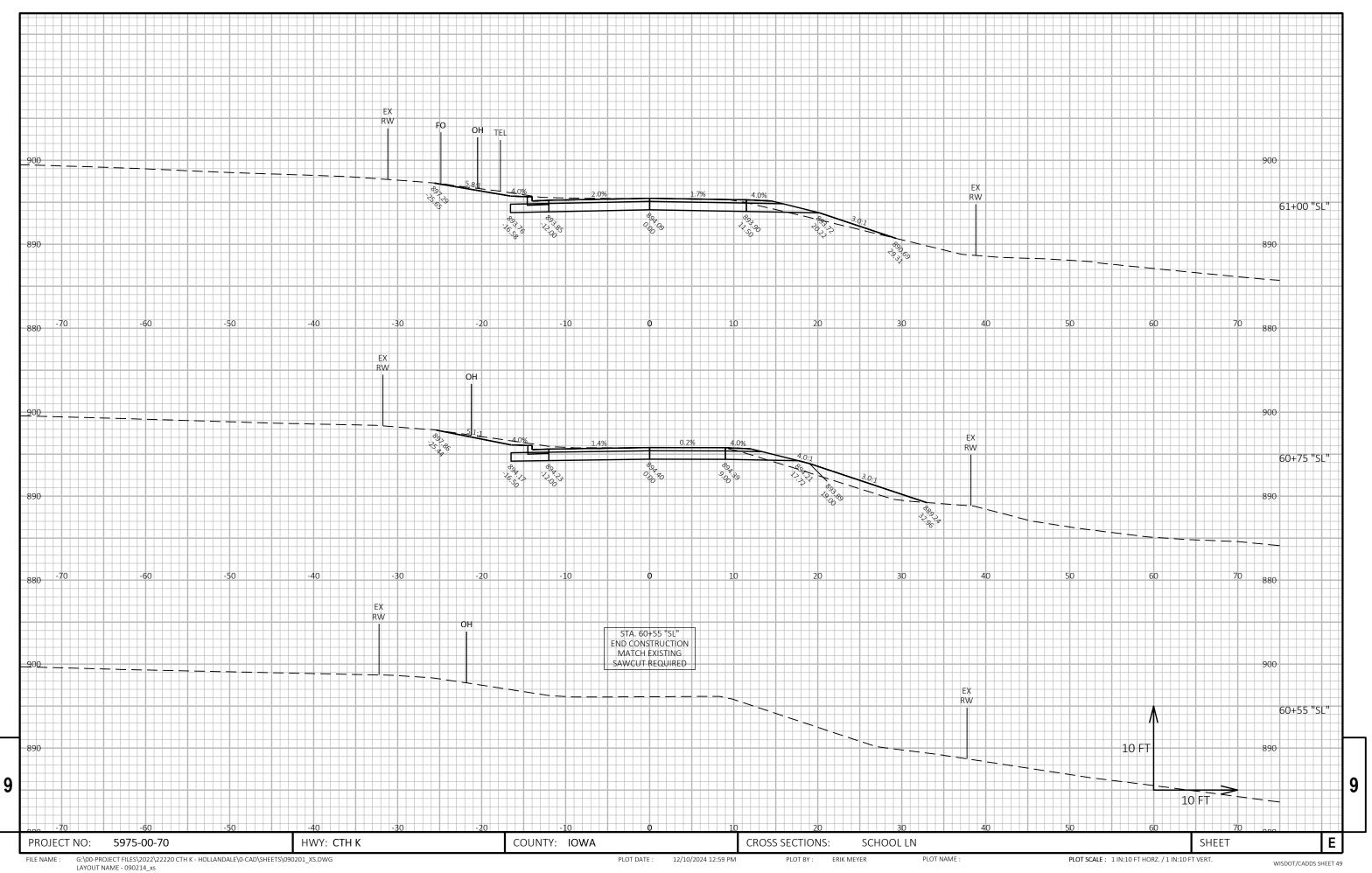


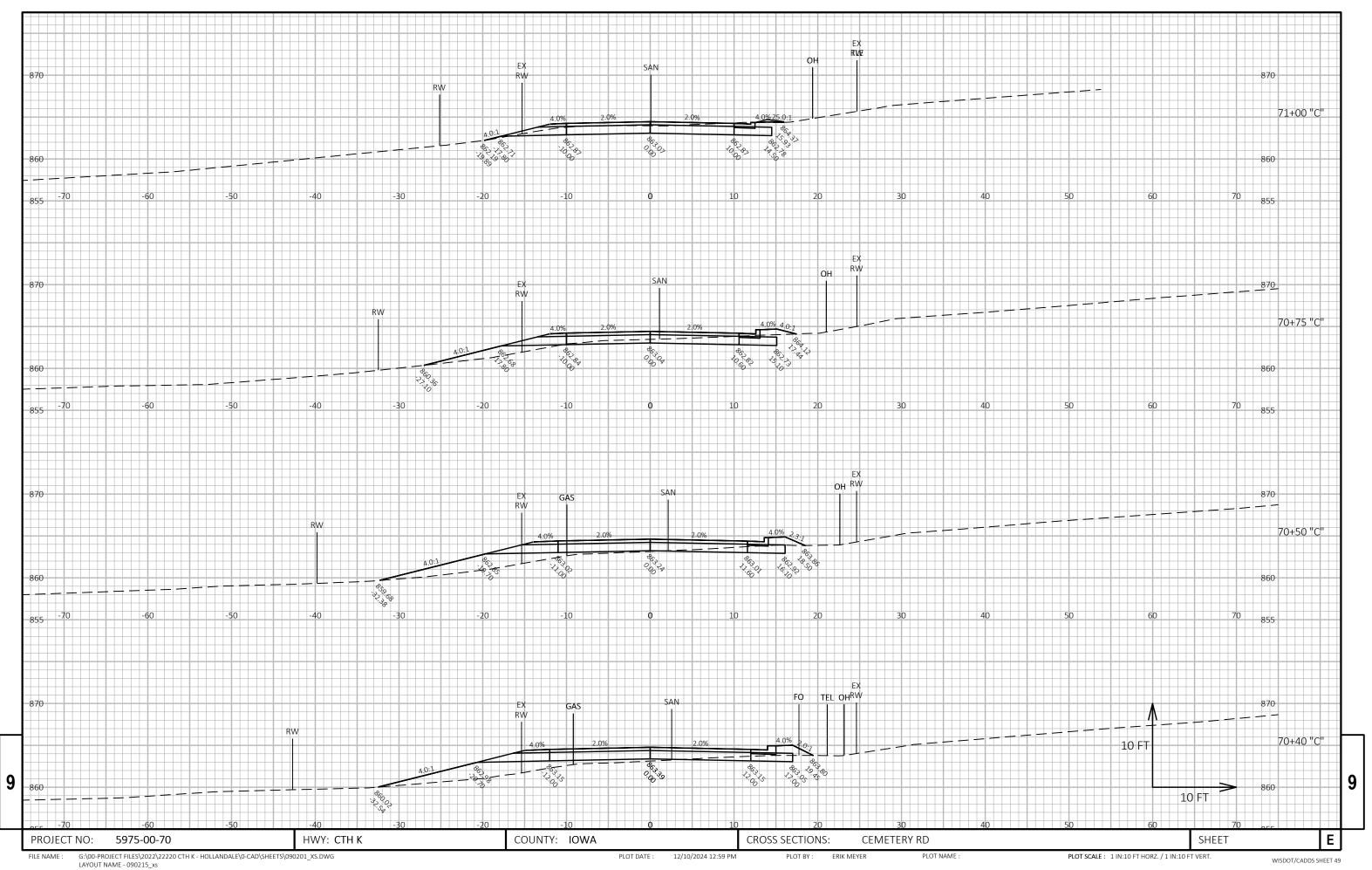


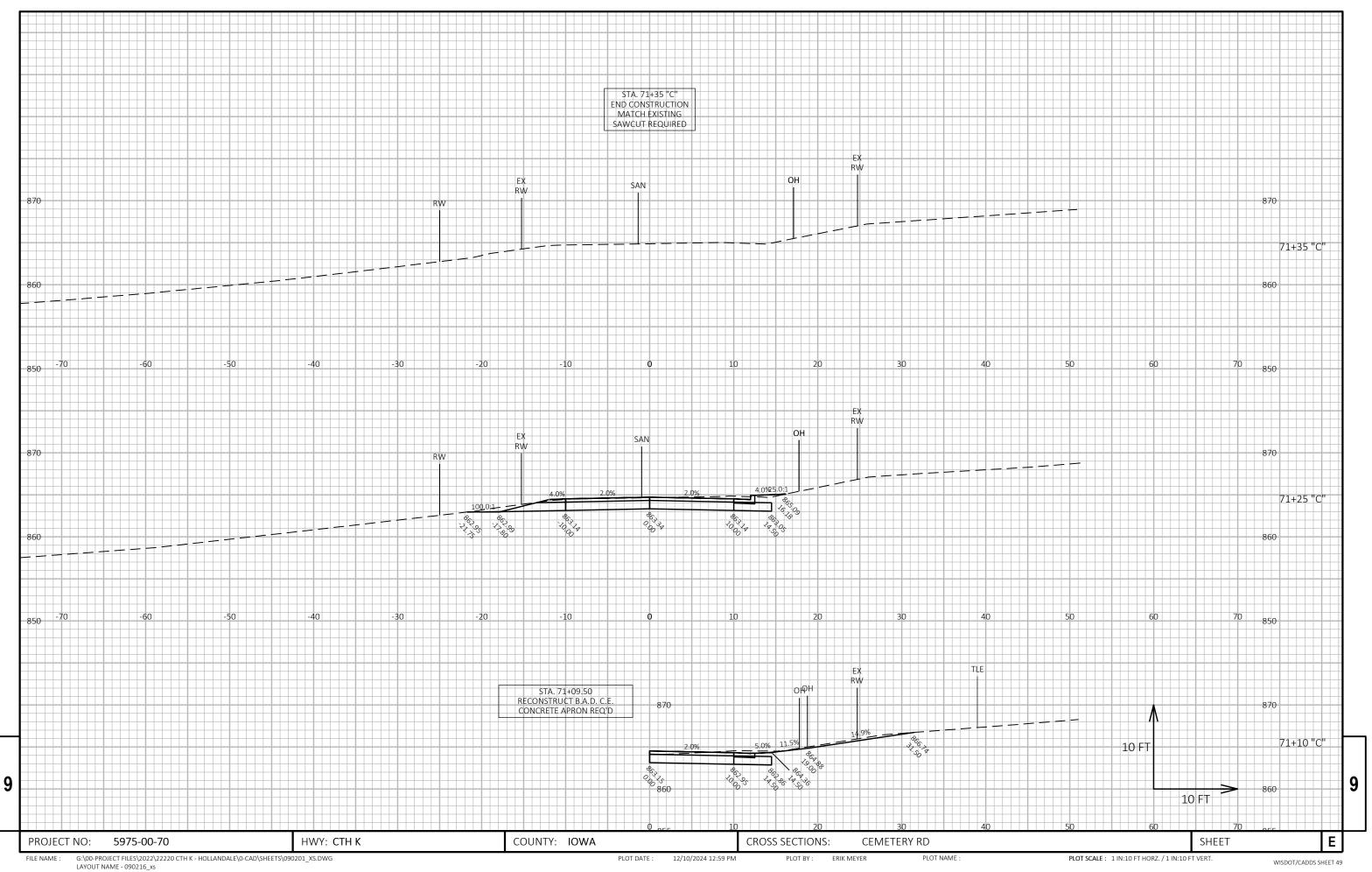


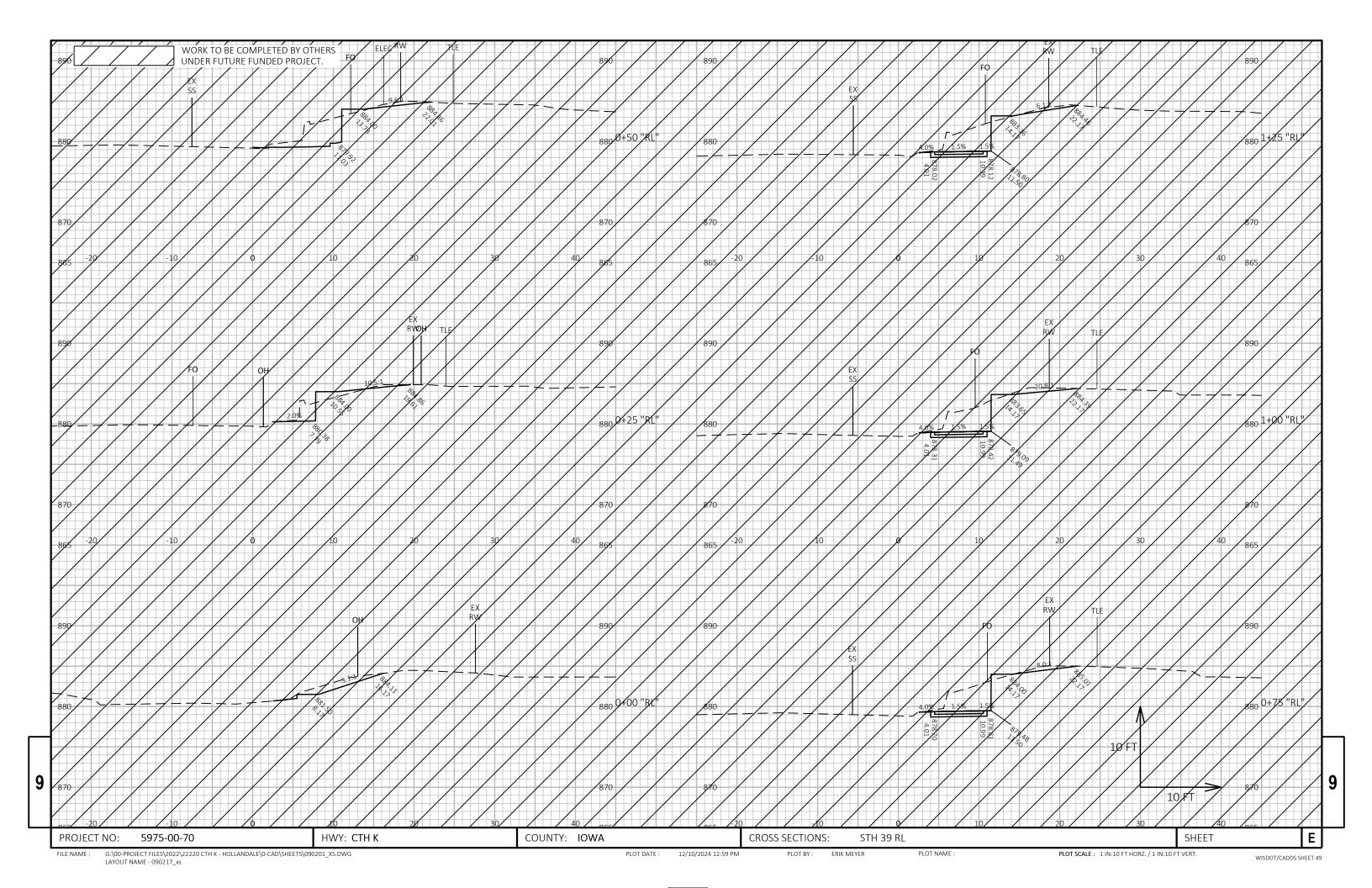


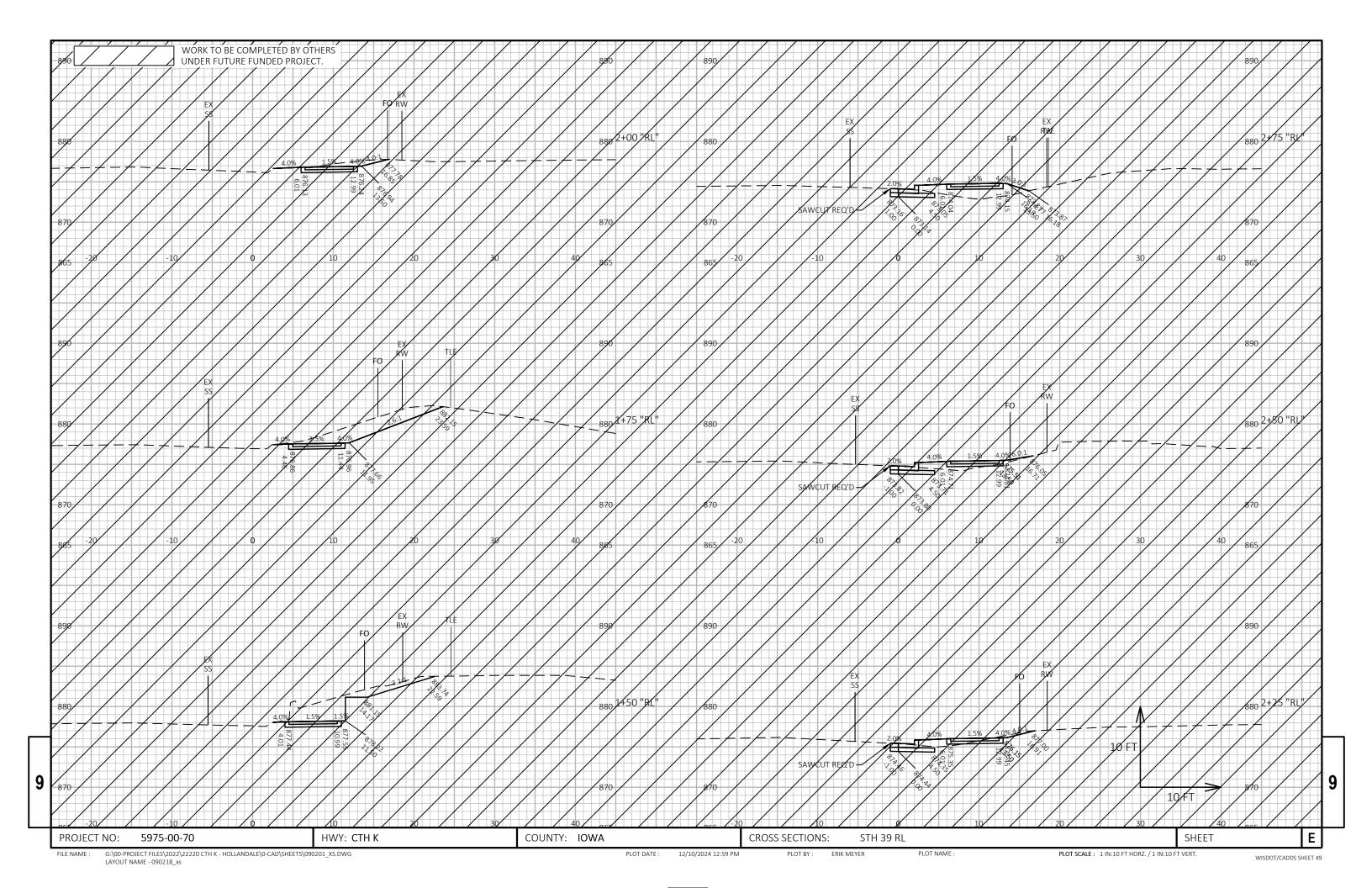


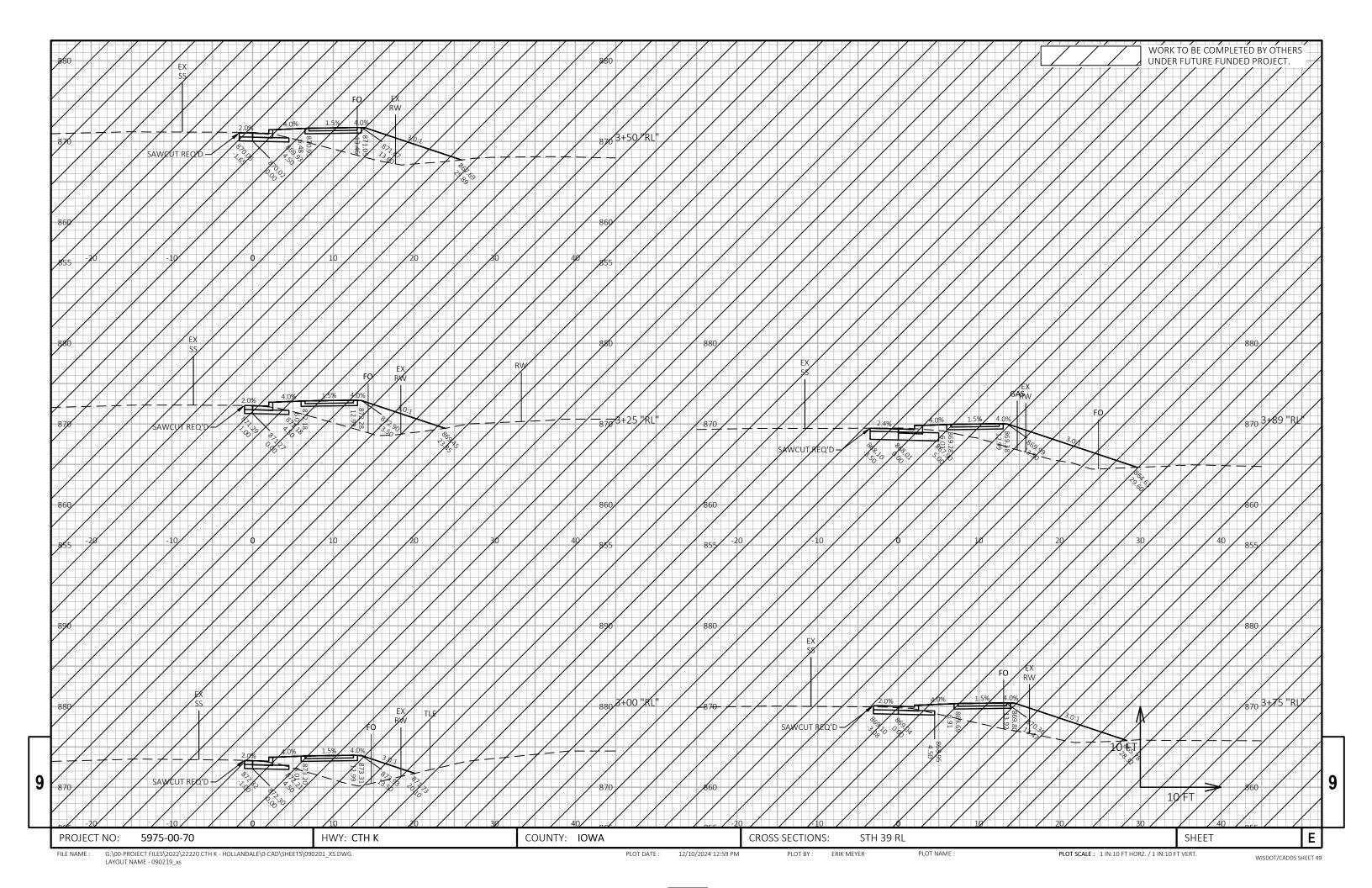


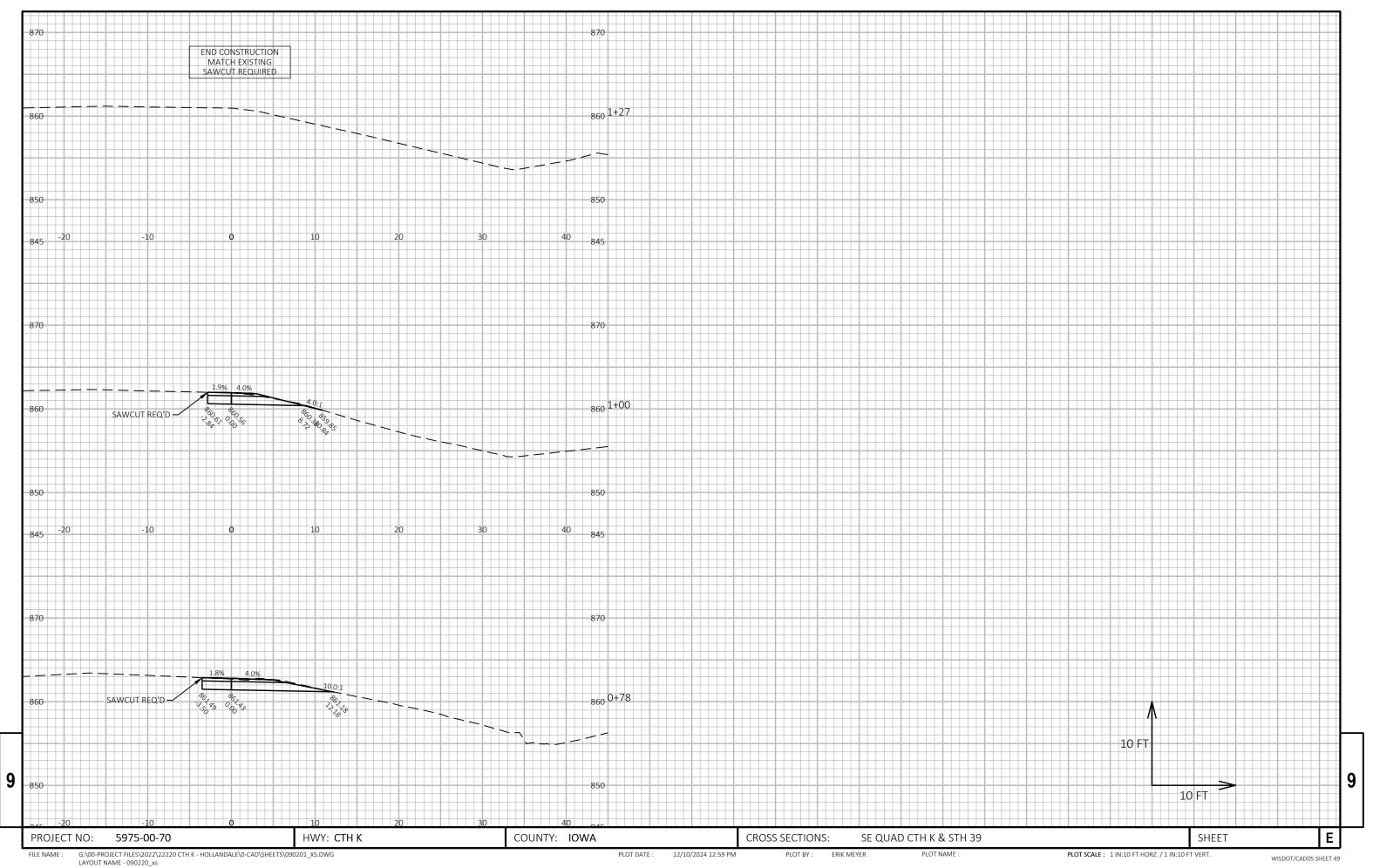












LATOUT NAME - 090220_Xs

Notes



Wisconsin Department of Transportation

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