Feb 09, 2021

ORDER OF SHEETS

Estimate of Quantities

Plan and Profile

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Section No.

Section No

Section No.

Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS =

DESIGN DESIGNATION

(2021) = 1,560

(2041) = 2,320

(2041) = 209

CONVENTIONAL SYMBOLS

= 60/40

= VARIES 50% - 70% 25 MPH (STA. 10+00 - STA. 12+76)

= - - - - 35 MPH (STA. 12+76 - STA. 38+15)

45 MPH (STA. 38+15 - STA. 56+36.82)

PROFILE

GRADE LINE
ORIGINAL GROUND

MARSH OR ROCK PROFILE

(To be noted as such)

CULVERT (Profile View)

GRADE ELEVATION

UTILITIES

ELECTRIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER
TELEPHONE

WATER

A.A.D.T.

A.A.D.T.

DESIGN SPEED

CORPORATE LIMITS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

PROPERTY LINE

D.H.V.

D.D.

ESALS

Title Typical Sections and Details (Includes Erosion Control Plan) Typical Sections and Details (Includes Erosion Control Plan) DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

COUNTY

ACCEPTED FOR

Engineers - Architects - Surveyors

DANIEL J.

TRACY

E-47578-6

MUSCODA

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

JEWELL ASSOCIATES ENGINEERS, INC

OSCAR I. WINGER

Aleigha Burg, P.E. Digitally signed by Aleigha Burg, P. Date: 2020.10.28 05:51:45-0500'

REPARED BY

APPROVED FOR THE DEPARTMENT

10/28/2020

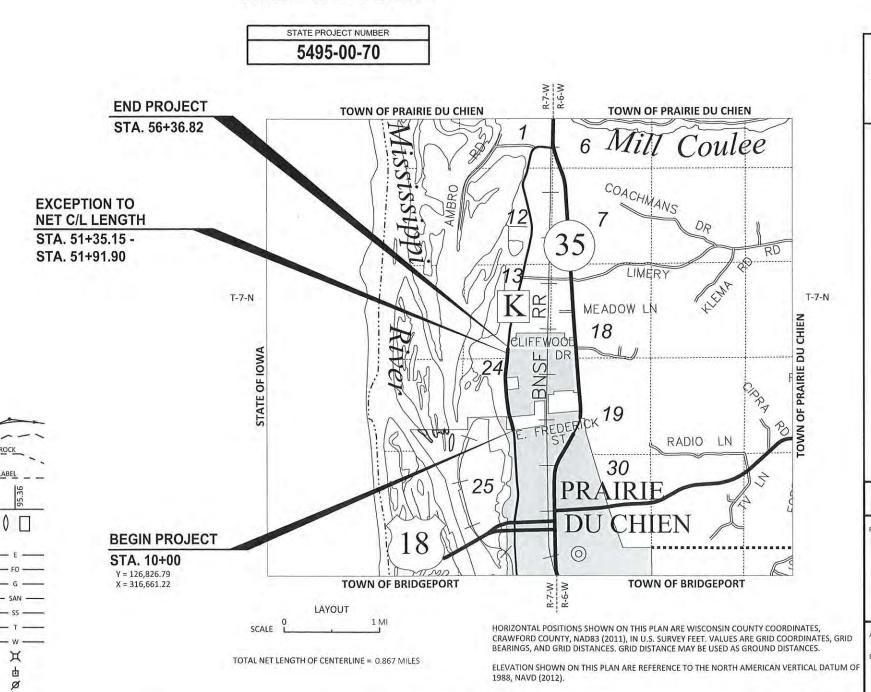
SIONAL

CRAWFORD

CITY PRAIRIE DU CHIEN - STH 35

E FREDERICK ST TO CLIFFWOOD DRIVE

CTH K CRAWFORD COUNTY



ILE NAME : S:\PROJECTS\C54560 CRAWFORD CO - CTH K PAVEMENT IMPROVEMENT\SHEETSPLAN\54950000_TIT

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EROSION CONTROL ITEMS IN THE MISC. QUAN. ARE SUGGESTED. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. 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 LIMITS.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND EROSION MAT URBAN CLASS I TYPE B AS DIRECTED BY THE ENGINEER. FERTILIZER (TYPE B) & SEEDING (SEEDING MIX NO. 20) ARE PAID FOR UNDER THE BID ITEM BARRIER SYSTEM GRADING SHAPING FINISHING.

PRIOR TO THE PLACEMENT OF GUARDRAIL, THE SHOULDERS SHALL BE PLACED, SHAPED, AND COMPACTED.

EXISTING SHOULDER AGGREGATE SHALL BE INCORPORATED INTO THE NEW SHOULDERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD.

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 LAYER SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER

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

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

5.5-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH A 2 ½-INCH UPPER LAYER OF HMA PAVEMENT 4 MT 58-28 S AND A 3-INCH LOWER LAYER OF HMA PAVEMENT 4 MT 58-28 S FROM STA. 10+00 - STA. 30+38.

2.5-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH A SINGLE 2.5-INCH LAYER OF HMA PAVEMENT 4 MT 58-28 S FROM STA. 30+38 - STA. 56+36.82

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

APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO THE MILLED SURFACE AND AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT

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

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 ET /FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTION EQUALS THE SUPERELEVATION.

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

PROJECT NO: 5495-00-70

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, ALL SIGNS RELATING TO THIS OPERATION SHALL BE COVERED OR REMOVED AND FACILITY RESTORED TO NORMAL OPERATIONS.

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 THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO "DIGGERS HOTLINE" AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE

IF THERE ARE CONFLICTS WITH SIGNS OR OTHER WORK UNDER THIS PROJECT, THE CONTRACTOR WILL WORK

ALL RADII DIMENSIONS ON THE PLAN FOR CURB AND GUTTER ARE TO THE FLANGE OF THE CURB & GUTTER.

MILL AND PAVE ADJACENT TO MONUMENTS WITHOUT DAMAGING THE MONUMENTS

PAVEMENT CORING LOG

STATION	LOCATION	EXISTING HMA PAVEMENT DEPTH (IN)	EXISTING BASE COURSE DEPTH (IN)
12+00 +/-	MAINLINE, 12' RT.	5	8
23+50 +/-	MAINLINE, 0' RT.	8	6
36+00 +/-	MAINLINE, 12' LT.	5	4
47+10 +/-	MAINLINE, 0'RT.	6	9

HWY: CTH K

CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION:

WisDOT PROJECT MANAGER 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 ATTN: ALEIGHA BURG, P.E PH: (608) 317-9083 EMAIL: Aleigha.Burg@dot.wi.gov

CRAWFORD COUNTY HIGHWAY DEPARTMENT:

KYLE KOZELKA, COMMISSIONER 21515 STATE HIGHWAY 27 SENECA, WI 54654 PH: (608) 734-9500 CELL: (608) 412-3774 EMAIL: kkozelka@crawfordcountywi.org DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: DAN TRACY, P.E. PH: (608) 459-6052 CELL: (608) 604-6905 EMAIL: dan.tracy@jewellassoc.com

WDNR LIAISON:

STATE OF WISCONSIN DNR SERVICE CENTER 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 ATTN: KAREN KALVELAGE PH: (608) 406-7880 EMAIL: karen.kalvelage@wisconsin.gov

UTILITIES

ELECTRICITY

ALLIANT ENERGY ATTN: AL MUMM 2200 EAST CAMPION BLVD. PRAIRIE DI I CHIEN WI 53821 OFFICE: (608) 732-7925 EMAIL: allanmumm@alliantenergv.com

SCENIC RIVERS ENERGY COOPERATIVE ATTN: PHIL SCHNEIDER 231 NORTH SHERIDAN STREET LANCASTER, WI 53813 OFFICE: (608) 723-2121 EXT: 505 FMAIL: nschneider@srec net

MADISON GAS & ELECTRIC ATTN: JANE ROSSING P.O. BOX 1231 MADISON, WI 53701 OFFICE: (608) 252-7099 EMAIL: grossing@mge.com workplans@mge.com

WATER

PRAIRIE DU CHIEN WATER DEPARTMENT P.O. BOX 324 PRAIRIE DU CHIEN, WI 53821 OFFICE: (608) 326-8213 CELL: (608) 306-0360 EMAIL: water@prairieduchien-wi.gov

COMMUNICATION LINE

CENTURYLINK ATTN: DOUG MCGOWAN 135 NORTH BONSON STREET PLATTEVILLE, WI 53818 OFFICE: (608) 342-4316 EMAIL: doug.mcgowan1@centurylink.com

MEDIACOM WISCONSIN, LLC ATTN: CRAIG EGGERT 1240 HWY 52 SOUTH CHATEIELD MN 55923 OFFICE: (563) 419-5160 EMAIL: ceggert@mediacomcc.com

SEWER

PRAIRIE DU CHIEN WASTEWATER DEPARTMENT ATTN: LARRY GATES P.O. BOX 324 PRAIRIE DU CHIEN, WI 53821 OFFICE: (608) 326-8534 CELL: (608) 306-0360 EMAIL: wwtf@prairieduchien-wi.gov

or (800) 242-8511 www.DiggersHotline.com

ORDER OF SECTION 2 SHEETS:

- WRITTEN MATERIAL
- TRAFFIC CONTROL

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SAN S	Sanitary Sewer
AH	Ahead	JT	Joint	SEC	Section
<	Angle	JCT	Junction	SHLDR	Shoulder
ASPH	Asphaltic	LHF	Left-Hand Forward	SHR	Shrinkage
AVG	Average	L	Length of Curve	SW	Sidewalk
ADT	Average Daily Traffic	LIN FT	Linear Foot	S	South
BAD	Base Aggregate Dense	or LF		SQ	Square
BK	Back	LC	Long Chord of Curve	SF or SQ FT	Square Feet
BF	Back Face	MH	Manhole	SY or SQ YD	Square Yard
BM	Bench Mark	MB	Mailbox	STD	Standard
BR	Bridge	ML or M/L	Match Line	SDD	Standard Detail Drawing
C or C/L	Center Line	N	North	STH	State Trunk Highways
CC	Center to Center	Υ	North Grid Coordinate	STA	Station
C.E.	Commercial Entrance	OD	Outside Diameter	SS	Storm Sewer
CTH	County Trunk Highway	PLE	Permanent Limited	SG	
CR	Creek		Easement		Subgrade
CR	Crushed	PT	Point	SE	Superelevation
CY or CU YD	Cubic Yard	PC	Point of Curvature	SL or S/L	Survey Line
CP CP CO 1D	Culvert Pipe	PI	Point of Intersection	SV	Septic Vent
C & G	Curb and Gutter	PRC	Point of Reverse	T	Tangent
n .	Degree of Curve	DT	Curvature	TEL	Telephone
DHV	Design Hour Volume	PT	Point of Tangency	TEMP	Temporary
DIA	Diameter	POC	Point On Curve	TI	Temporary Interest
DIA E		POT	Point on Tangent	TLE	Temporary Limited
	East	PVC	Polyvinyl Chloride		Easement
X	East Grid Coordinate	PCC	Portland Cement	t	Ton
ELEC	Electric (al)	LB	Concrete Pound	T or TN	Town
EL or ELEV	Elevation	PSI	Pounds Per Square Inch	TRANS	Transition
ESALS	Equivalent Single Axle Loads	P.E.	Private Entrance	TL or T/L	Transit Line
EBS	Excavation Below	R	Radius	T	Trucks (percent of)
LD3	Subgrade	RR	Railroad	TYP	Typical
FF	Face to Face	R	Range	UNCL	Unclassified
F.E.	Field Entrance	RL or R/L	Reference Line	UG	Underground Cable
F	Fill	RP .	Reference Point	USH	United States Highway
FG	Finished Grade	RCCP	Reinforced Concrete	VAR	Variable
FL or F/L	Flow Line		Culvert Pipe	V	Velocity or Design Spee
FT	Foot	REQD	Required	VERT	Vertical
FTG	Footing	RES	Residence or Residential	VC	Vertical Curve
GN	Grid North	RW	Retaining Wall	VOL	Volume
HT	Height	RT	Right	WM	Water Main
CWT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve
HYD	Hydrant	R/W	Right-of-Way	W	West
	Inlet	RD	Road	WB	Westbound
INL		R R	River	YD	Yard
ID	Inside Diameter	К	MACI	10	

RUNOFF COEFFICIENT TABLE

HYDROLOGIC SOIL GROUP

		А			В			С			D		
	SLOP	E RANGE	(PERCENT)	SLOP	E RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
ROW CROPS	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
STRIP TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40	
SIDE SLOPE			.25			.27			.28			.30	
TURF			.32			.34			.36			.38	
PAVEMENT:													
ASPHALT							.70	95 (
CONCRETE							.80	95 (
BRICK	.7080												
DRIVES, WALI	/ALKS .7585 .7595												
ROOFS								•					
GRAVEL ROAL	DS, SHOL	, SHOULDERS .4060								•			

TOTAL PROJECT AREA = 4.26 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.38 ACRES

A CONTROL POINTS

NO.	STA.	DESCRIPTION	Υ	X	Z
1	13+34	¾" I.R.S., 36.6' LT.	127,138.19	316,535.49	628.18
2	31+07	¾" I.R.S., 23.9' LT.	128,893.88	316,273.49	628.88
3	47+56	¾" I.R.S., 41.9' RT.	130,533.92	316,391.85	626.21

- TYPICAL SECTIONS
- CONSTRUCTION DETAILS (INCLUDES EROSION CONTROL PLAN)
- PERMANENT SIGNING AND PAVEMENT MARKING

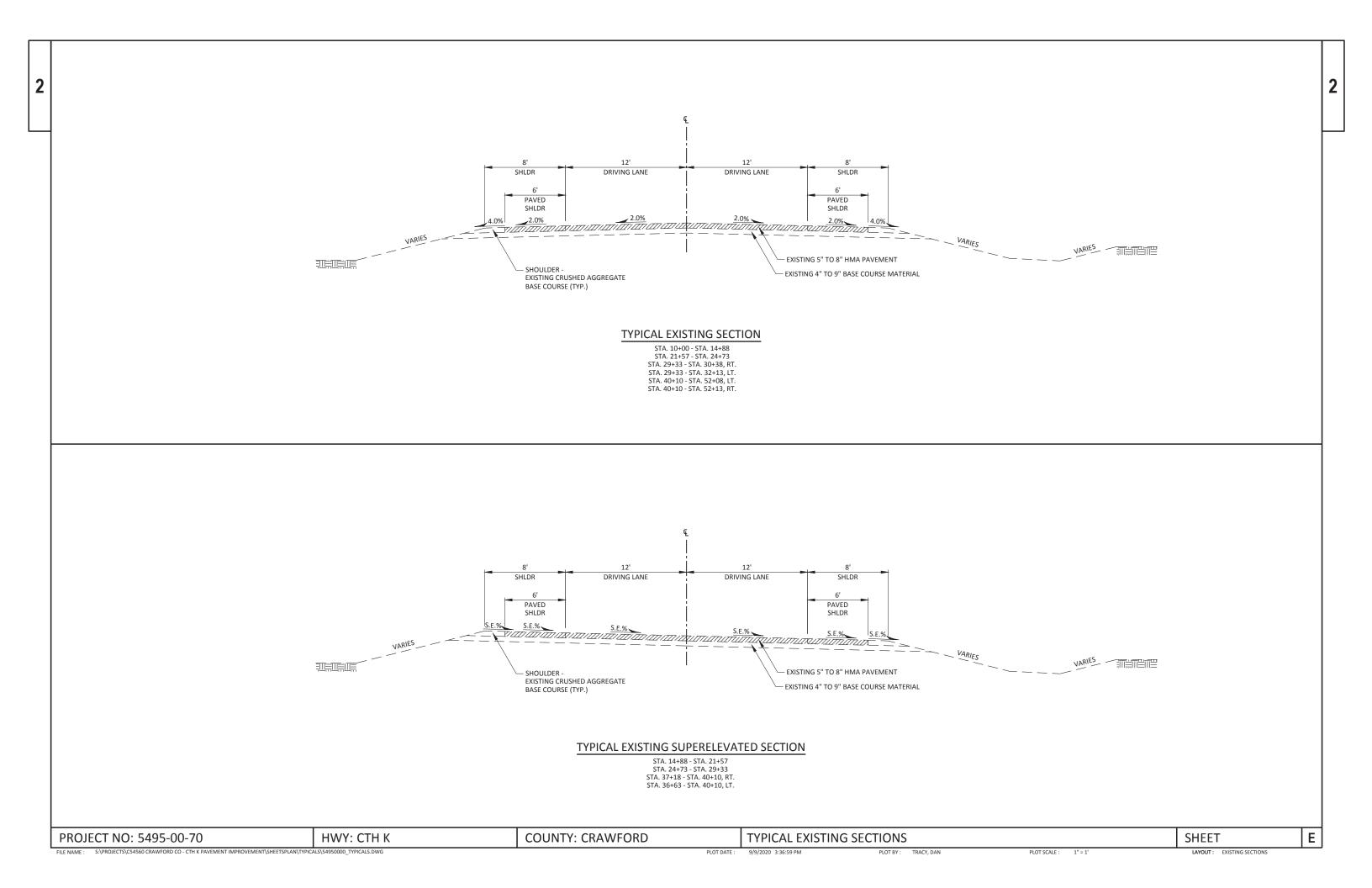
COUNTY: CRAWFORD

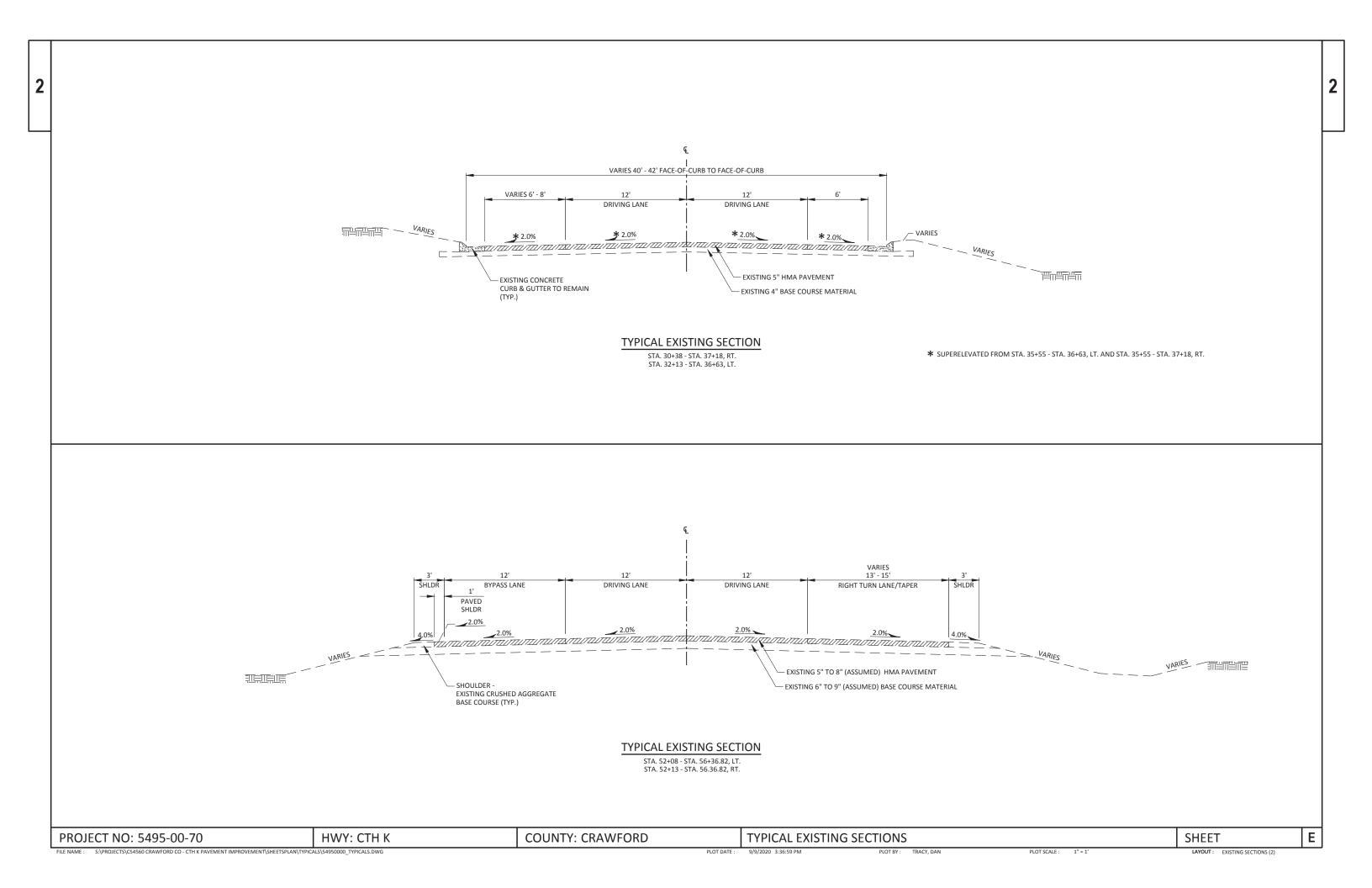
GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS

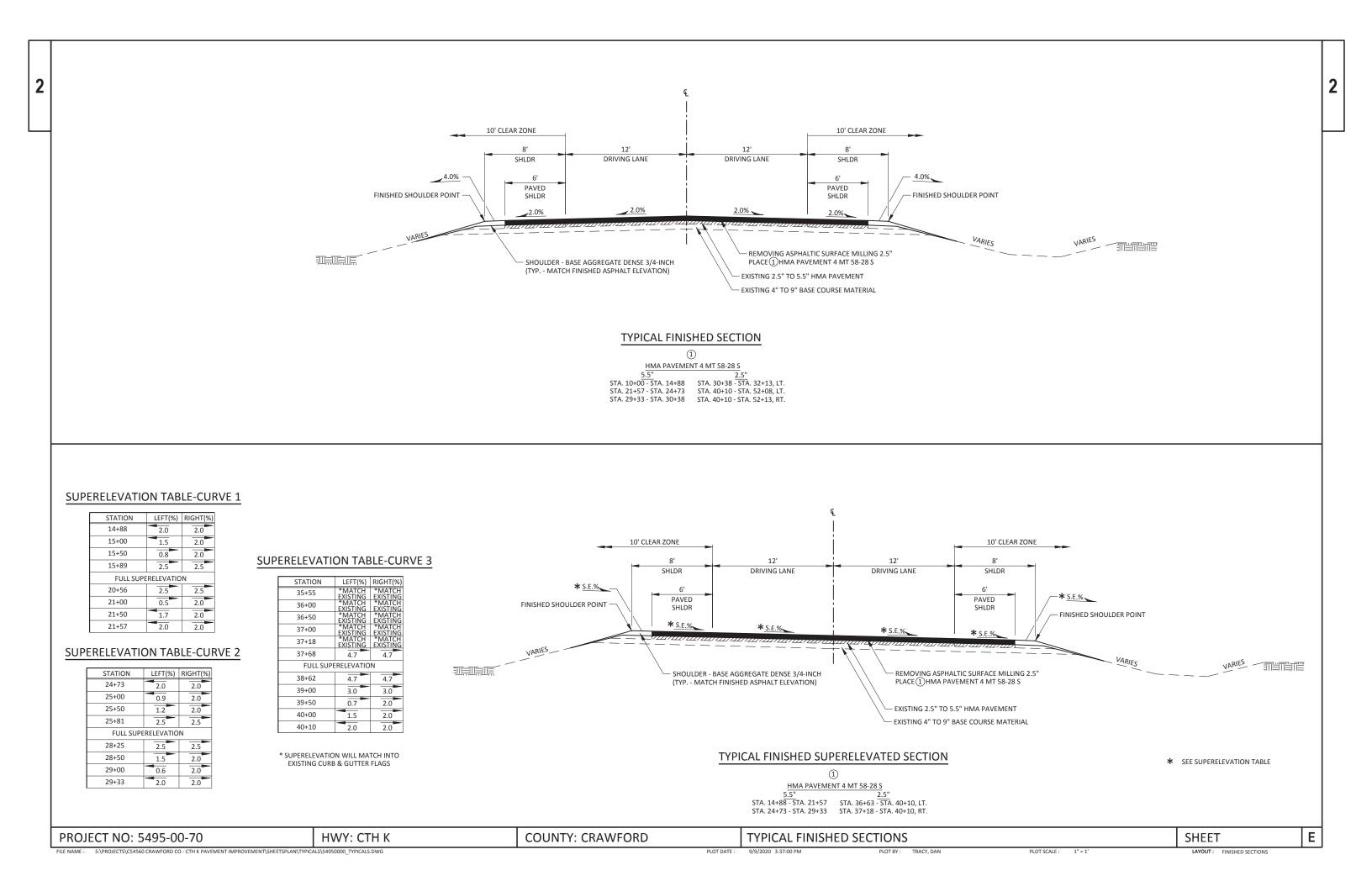
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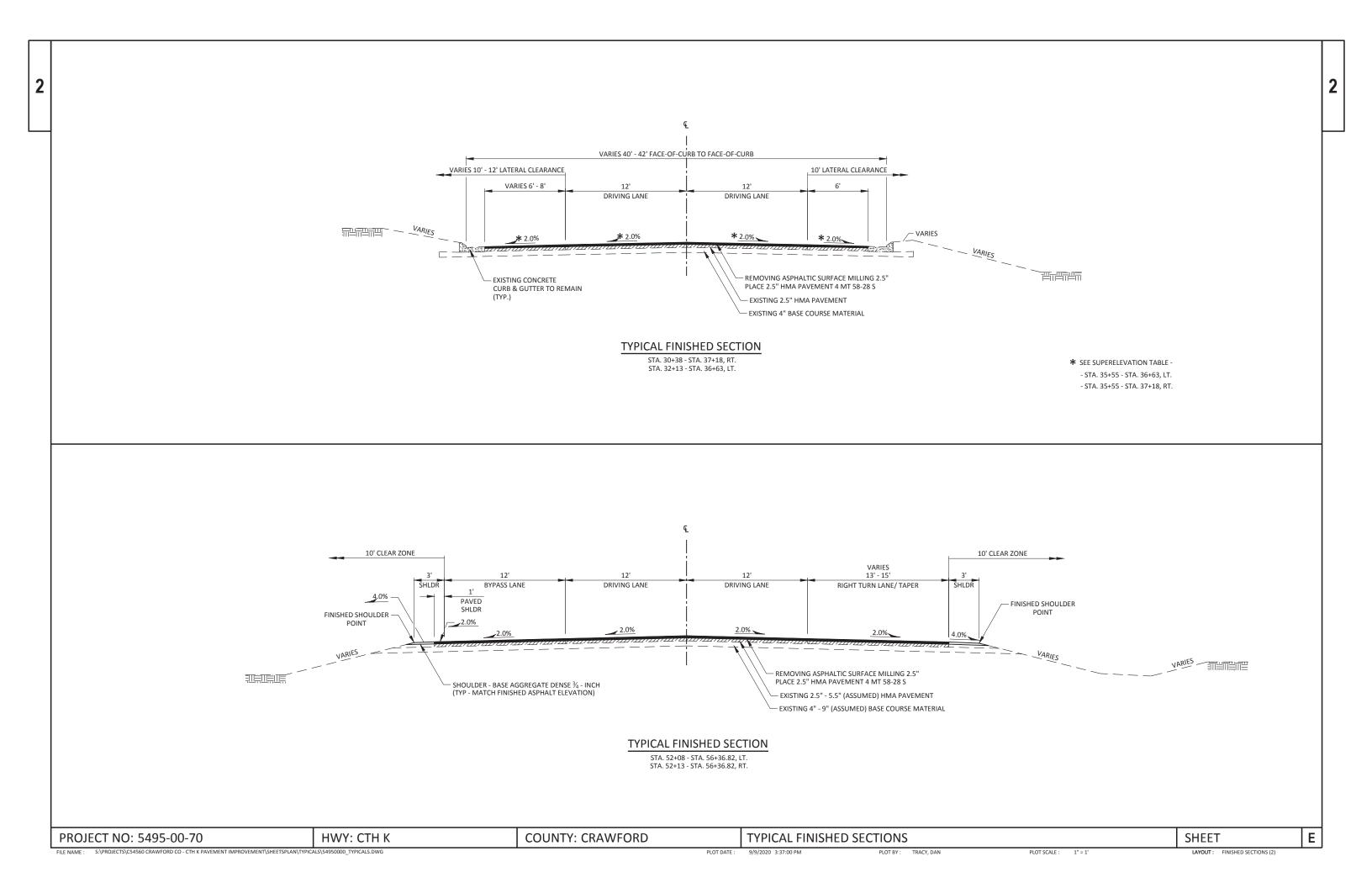
FILE NAME - S-\PROJECTS\C54560 CRAWFORD CO - CTH K PAVEMENT IMPROVEMENT\SHFFTSPI AN\DETAILS\54950000 GEN NOTES DW

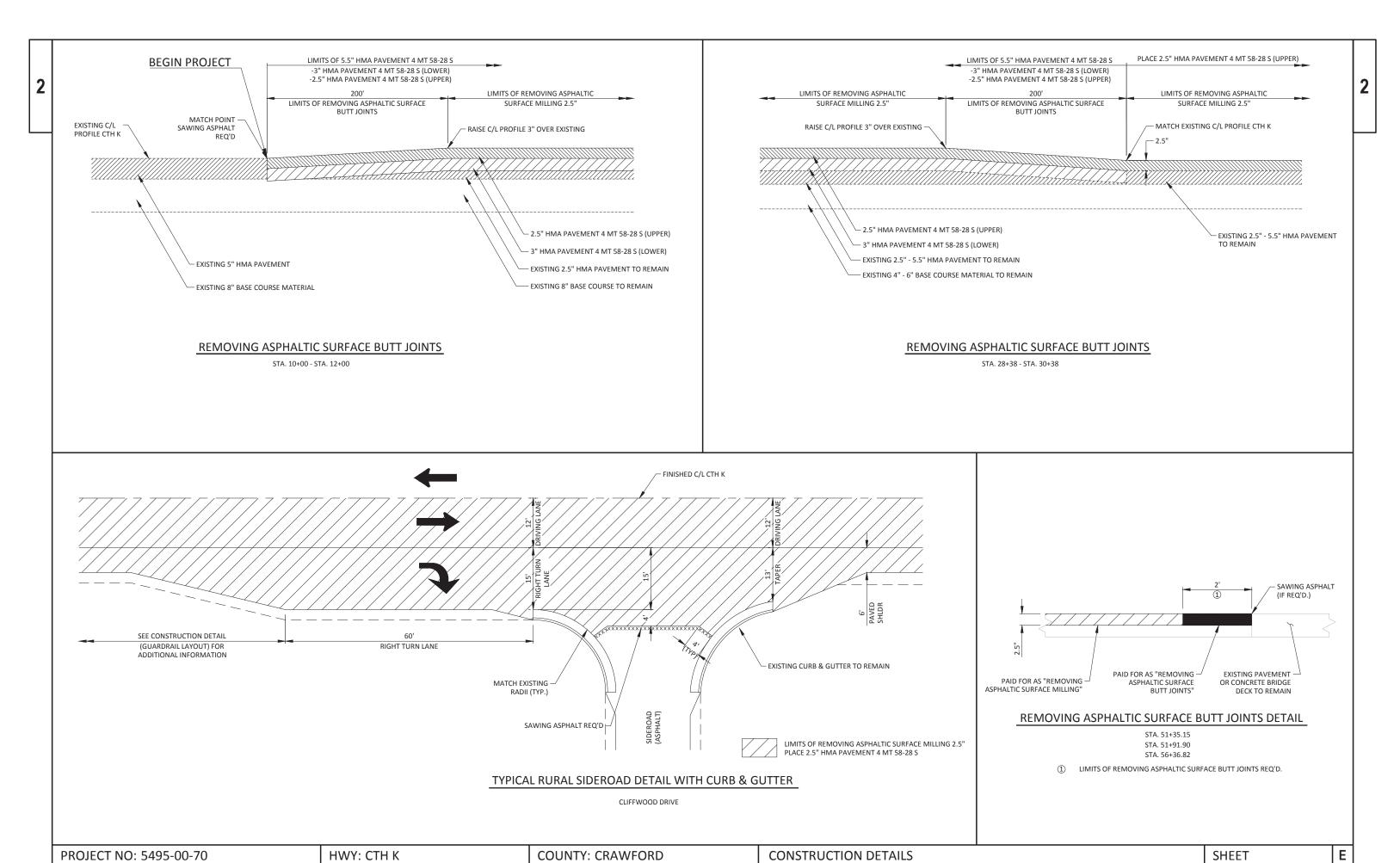
SHEET











* REPLACE IN KIND TO THE RADIUS POINTS OF EACH DRIVEWAY (OR AS DIRECTED BY ENGINEER) (UNLESS NOTED OTHERWISE)

P.E./F.E./C.E.

(EXISTING ASPHALT)

DRIVEWAY DETAIL-RURAL

LIMITS OF REMOVING ASPHALTIC SURFACE MILLING 2.5" AND PLACE 5.5" HMA PAVEMENT 4 MT 58-28 S

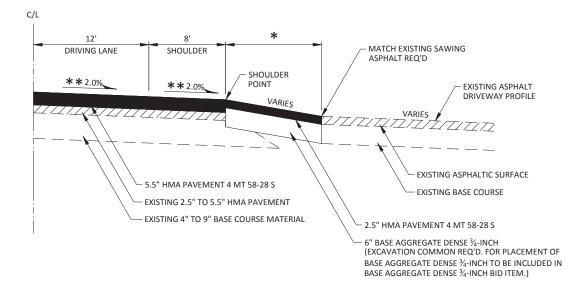
LIMITS OF BASE AGGREGATE DENSE 3/4-INCH



LIMITS OF REMOVING ASPHALTIC SURFACE MILLING AND PLACE 2.5" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES OVER 6" B.A.D.

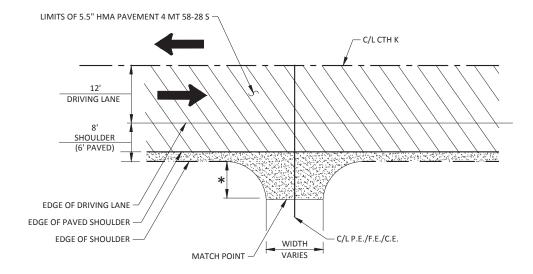


LIMITS OF EXISTING ASPHALTIC OR CONCRETE SURFACE P.E./F.E./C.E. TO



P.E./F.E./C.E. (EXISTING ASPHALT) PROFILE

** N.C. UNLESS NOTED OTHERWISE -SEE SUPERELEVATION TABLE



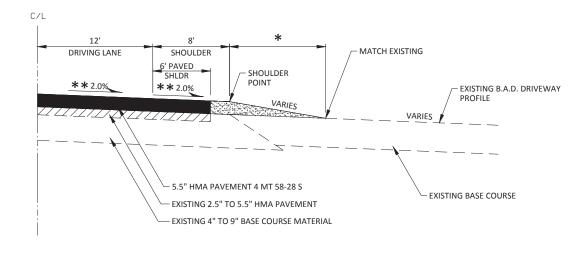
P.E./F.E./C.E. (EXISTING B.A.D.) DRIVEWAY DETAIL-RURAL

* REPLACE IN KIND TO THE RADIUS POINTS OF EACH DRIVEWAY (OR AS DIRECTED BY ENGINEER)

LIMITS OF REMOVING ASPHALTIC SURFACE MILLING 2.5"AND PLACE 5.5" HMA PAVEMENT 4 MT 58-28 S



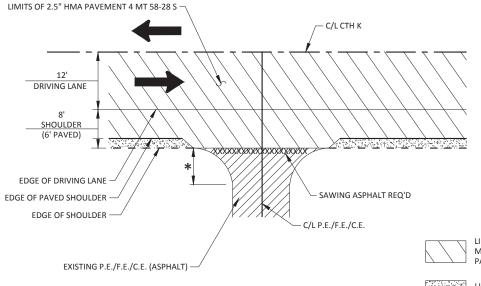
LIMITS OF BASE AGGREGATE DENSE



P.E./F.E./C.E. (EXISTING B.A.D.) PROFILE

** N.C. UNLESS NOTED OTHERWISE -SEE SUPERELEVATION TABLE

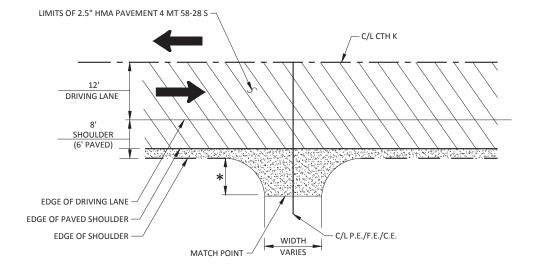
HWY: CTH K **COUNTY: CRAWFORD** Ε PROJECT NO: 5495-00-70 CONSTRUCTION DETAILS SHEET FILE NAME: S:\PROJECTS\C54560 CRAWFORD CO - CTH K PAVEMENT IMPROVEMENT\SHEETSPLAN\DETAILS\54950000 CONSTRUCTION DETAILS.DWG 9/9/2020 3:37:17 PM PLOT SCALE :



P.E./F.E./C.E. (EXISTING ASPHALT) DRIVEWAY DETAIL-RURAL LIMITS OF REMOVING ASPHALTIC SURFACE MILLING 2.5" AND PLACE 2.5" HMA PAVEMENT 4 MT 58-28 S

LIMITS OF BASE AGGREGATE DENSE

LIMITS OF EXISTING ASPHALTIC OR CONCRETE SURFACE P.E./F.E./C.E. TO



P.E./F.E./C.E. (EXISTING B.A.D.) DRIVEWAY DETAIL-RURAL

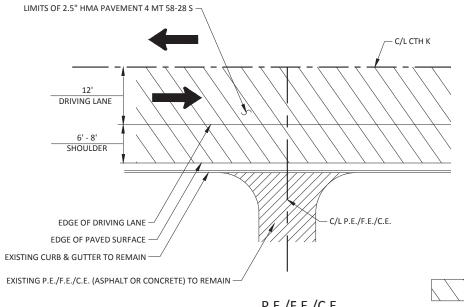
* REPLACE IN KIND TO THE RADIUS POINTS OF EACH DRIVEWAY (OR AS DIRECTED BY ENGINEER)



LIMITS OF REMOVING ASPHALTIC SURFACE MILLING 2.5"AND PLACE 2.5" HMA PAVEMENT 4 MT 58-28 S



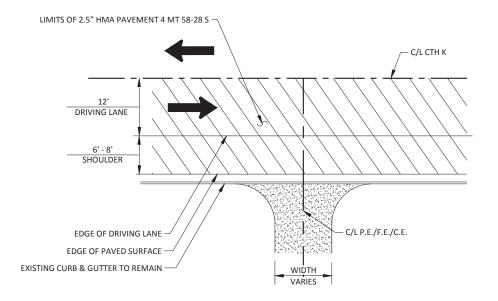
LIMITS OF BASE AGGREGATE DENSE 3/4-INCH



P.E./F.E./C.E. (EXISTING ASPHALT OR CONRETE) DRIVEWAY DETAIL - URBAN

LIMITS OF REMOVING ASPHALTIC SURFACE MILLING 2.5" AND PLACE 2.5" HMA PAVEMENT 4 MT 58-28 S

LIMITS OF EXISTING ASPHALTIC OR CONCRETE SURFACE P.E./F.E./C.E. TO REMAIN

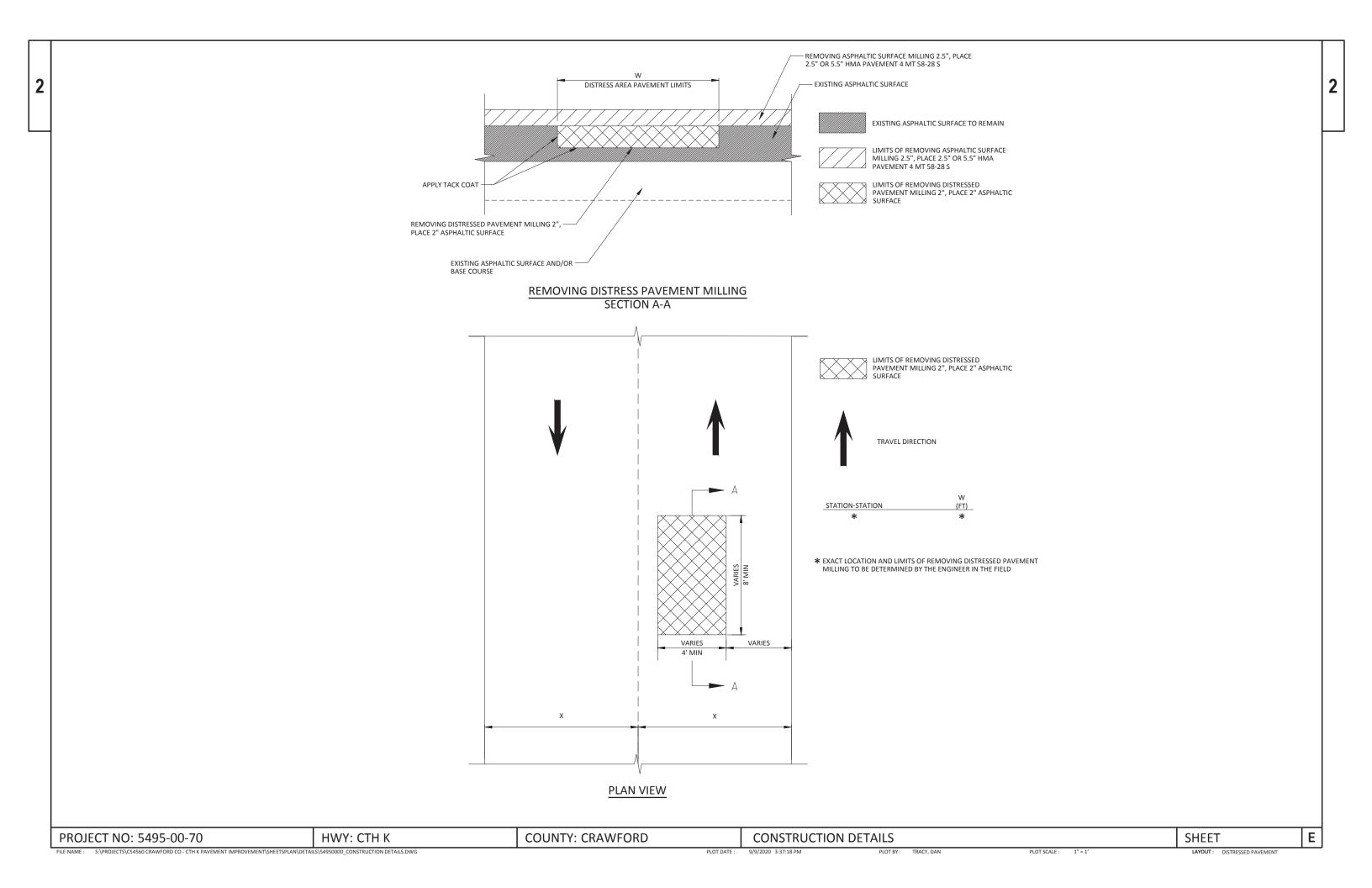


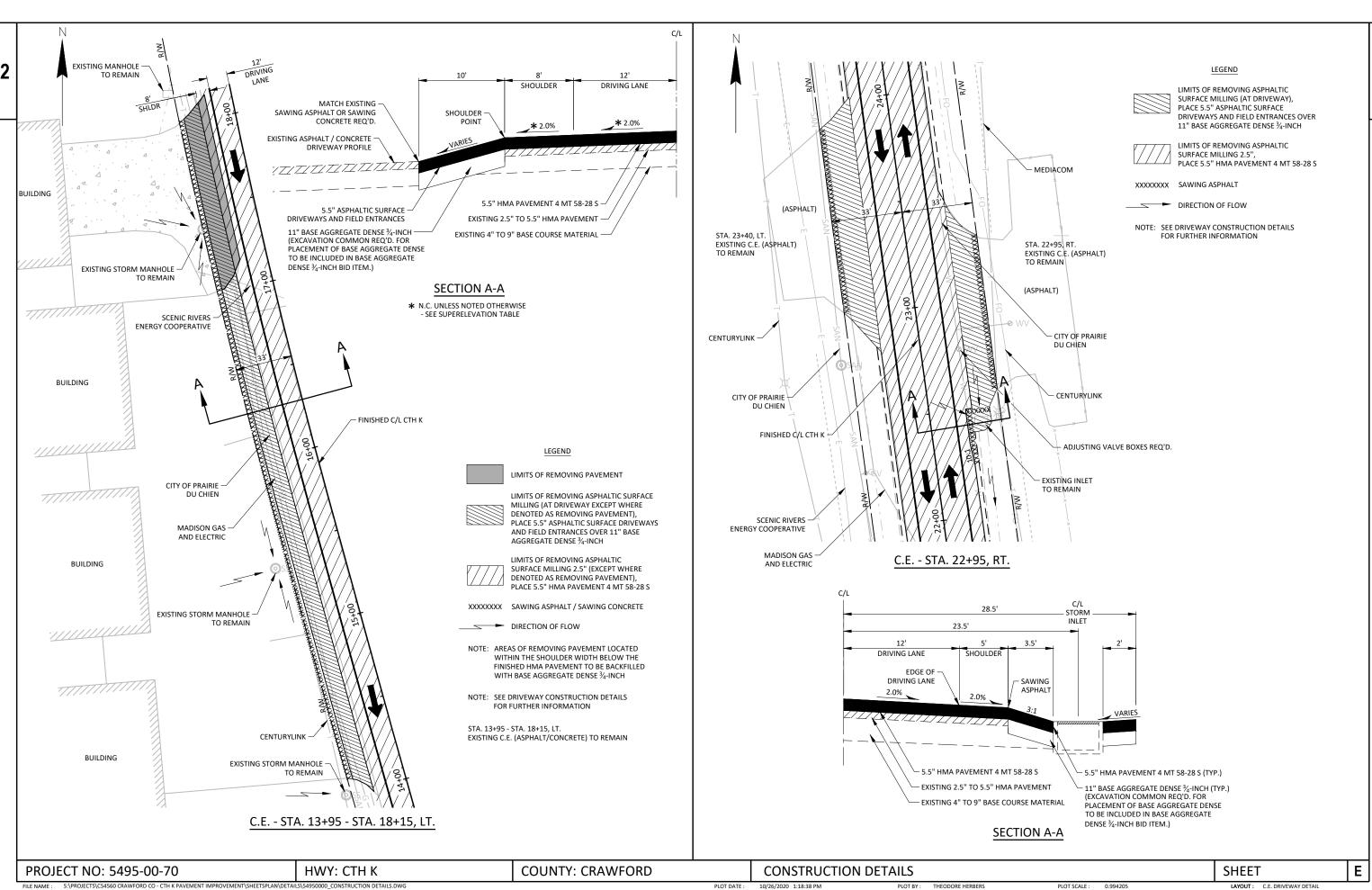
P.E./F.E./C.E. (EXISTING B.A.D.) DRIVEWAY DETAIL-URBAN

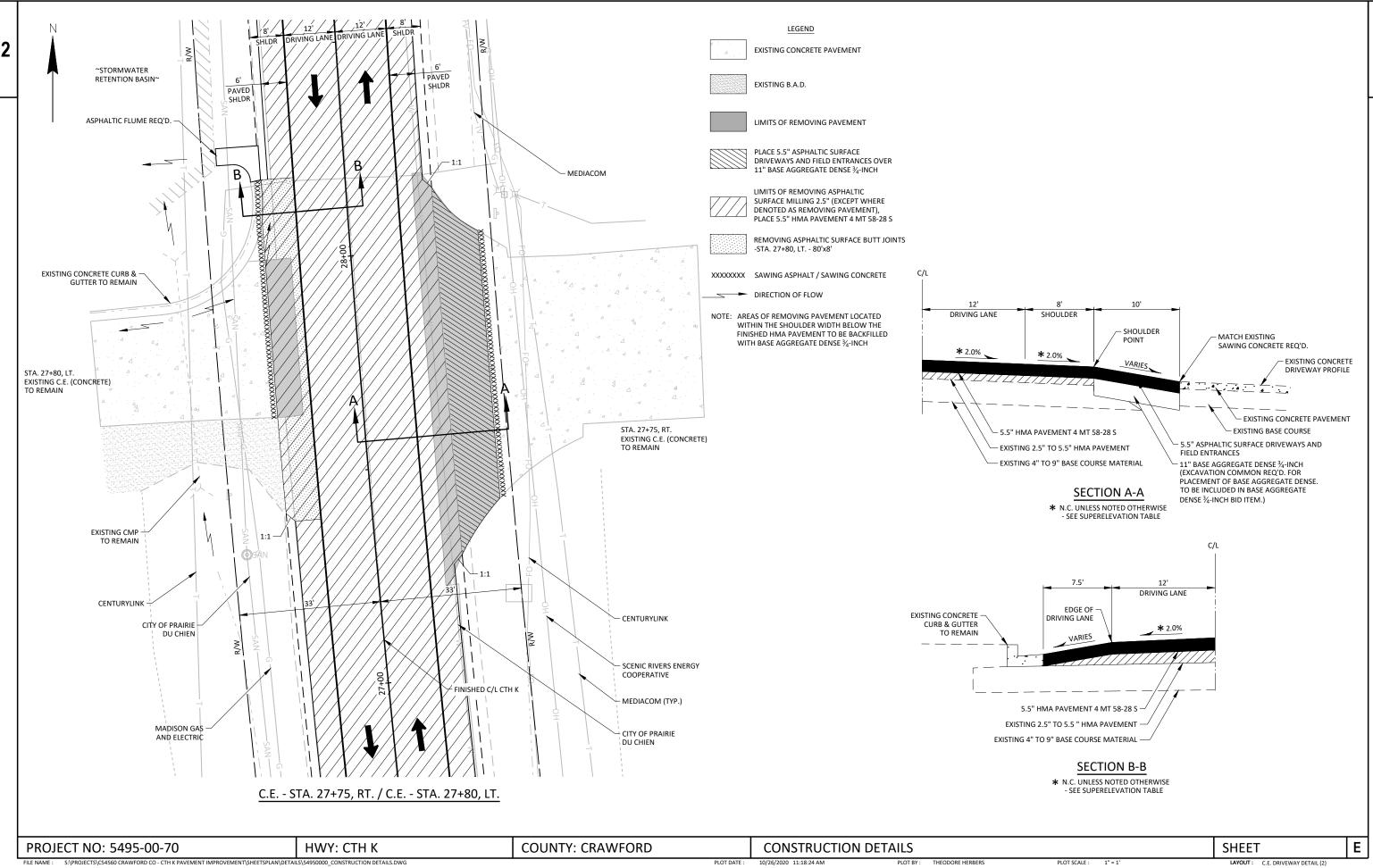
LIMITS OF REMOVING ASPHALTIC SURFACE MILLING 2.5" AND PLACE 2.5" HMA PAVEMENT 4 MT 58-28 S

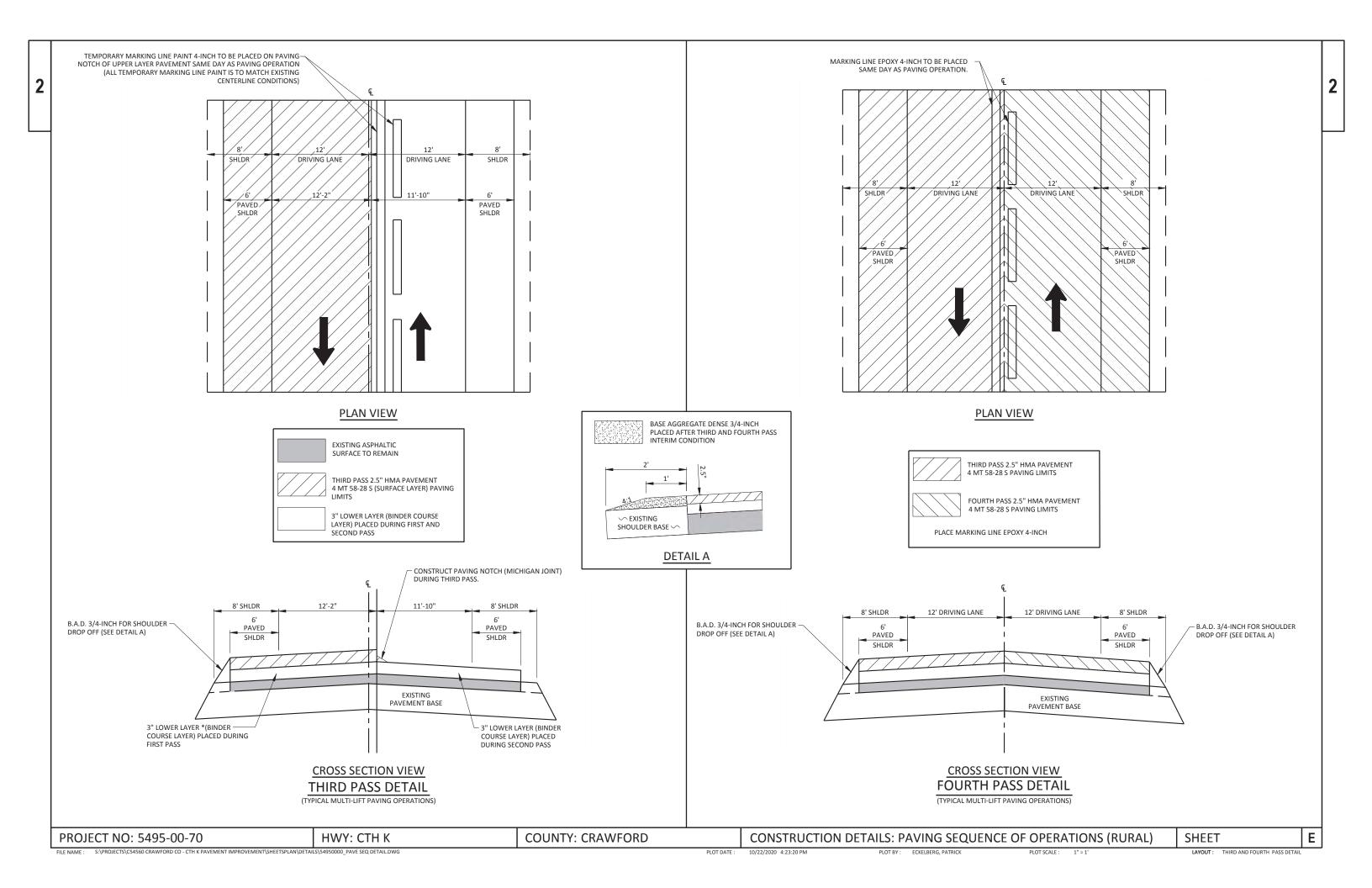
LIMITS OF EXISTING BASE AGGREGATE DENSE 3/4-INCH P.E./F.E./C.E. TO REMAIN

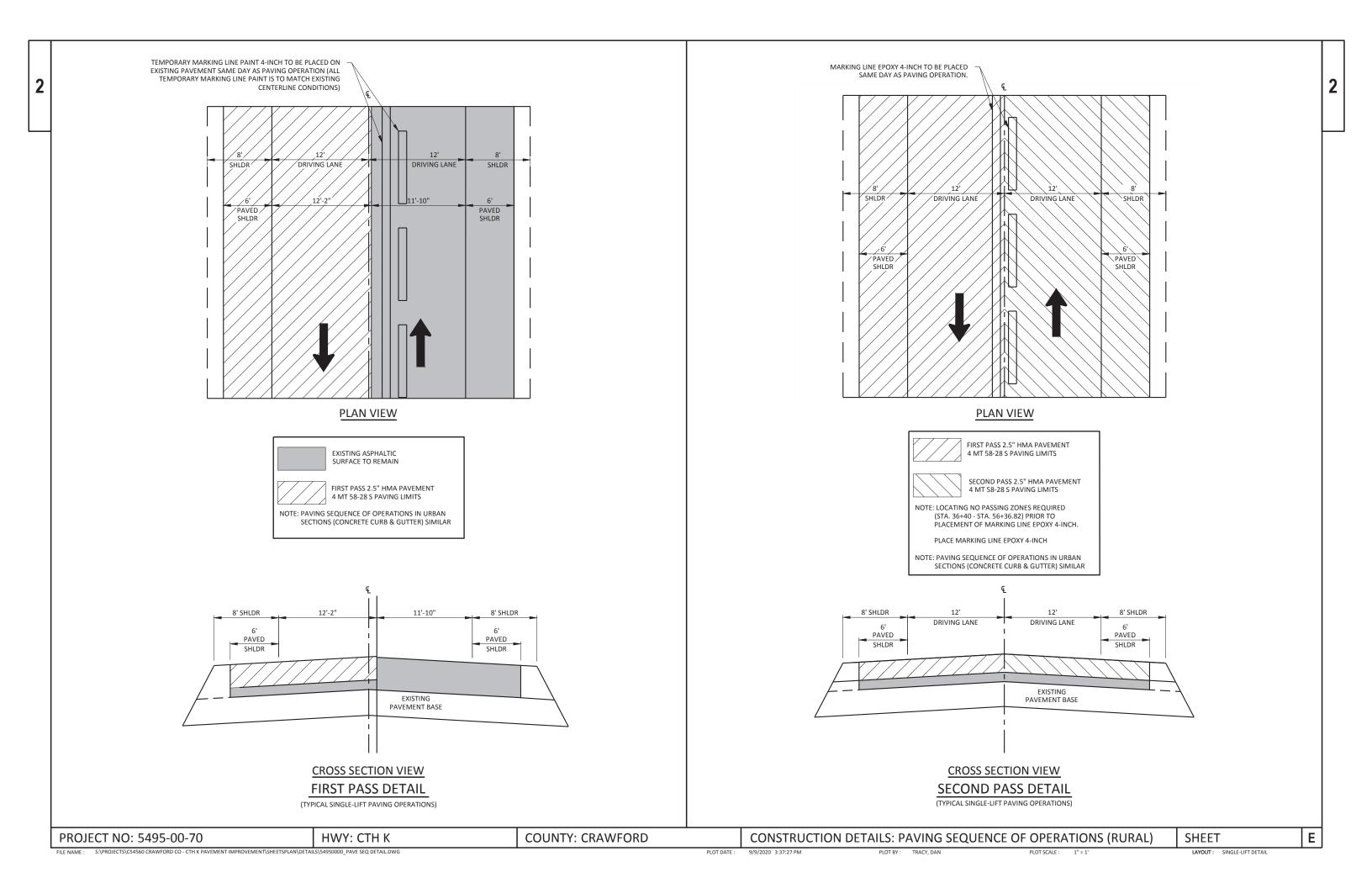
COUNTY: CRAWFORD CONSTRUCTION DETAILS Ε PROJECT NO: 5495-00-70 HWY: CTH K SHEET FILE NAME: S:\PROJECTS\C54560 CRAWFORD CO - CTH K PAVEMENT IMPROVEMENT\SHEETSPLAN\DETAILS\54950000 CONSTRUCTION DETAILS.DWG 9/9/2020 3:37:17 PM PLOT SCALE :

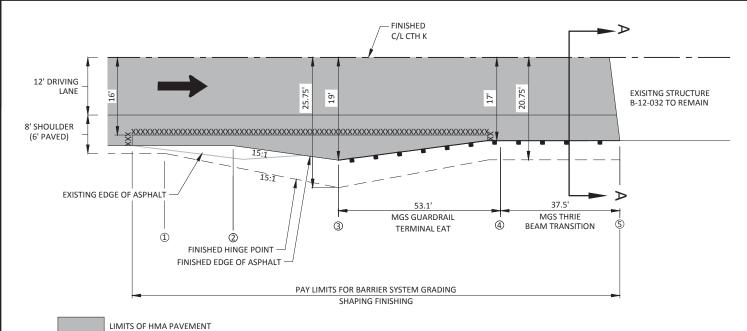












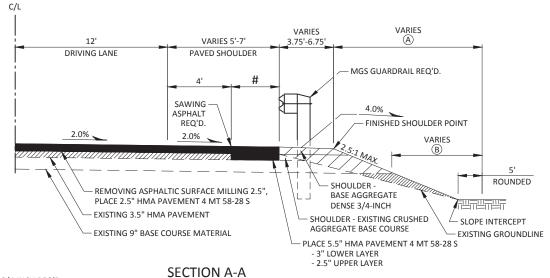
4 MT 58-28 S

XXXXXXXX SAWING ASPHALT

BEAMGUARD LAYOUT DETAIL

BEAMGUARD LAYOUT TABLE

STATION-STATION LOCATION 49+56 - 51+33 MAINLINE, LT. 49+56 50+27 50+42 50+95 51+33 49+61 - 51+38 MAINLINE, RT. 49+61 50+32 50+47 51+00 51+38 51+89 - 53+83 MAINLINE, LT. 53+22 53+83 52+80 52+27 51+89



BASE AGGREGATE DENSE 3/4-INCH REQ'D.

BORROW MATERIAL (PAID FOR UNDER BARRIER SYSTEM GRADING SHAPING FINISHING)

LIMITS OF FERTILIZER TYPE B AND SEEDING MIXTURE NO. 30 (AS DIRECTED BY THE ENGINEER). PAID FOR UNDER BARRIER SYSTEM GRADING SHAPING FINISHING BID ITEM. LIMITS OF EROSION MAT URBAN CLASS I TYPE B (AS DIRECTED BY THE ENGINEER).

HWY: CTH K

- (B) LIMITS OF SALVAGED TOPSOIL (AS DIRECTED BY THE ENGINEER). PAID FOR UNDER BARRIER SYSTEM GRADING SHAPING FINISHING BID ITEM.
- PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA. 49+20 - STA. 50+92, LT. STA, 49+28 - STA, 50+97, RT

STA. 52+30 - STA. 53+83, LT.

PROJECT NO: 5495-00-70

REMOVE ASPHALTIC SURFACE QUANTITIES TO BE INCLUDED IN THE EXCAVATION COMMON QUANTITIES EXCAVATION COMMON QUANTITIES PAID FOR UNDER THE BARRIER SYSTEM GRADING SHAPING AND FINISHING BID ITEM.

COUNTY: CRAWFORD

CONSTRUCTION DETAILS

SHEET

- 2.5" UPPER LAYER

52+13

51+94

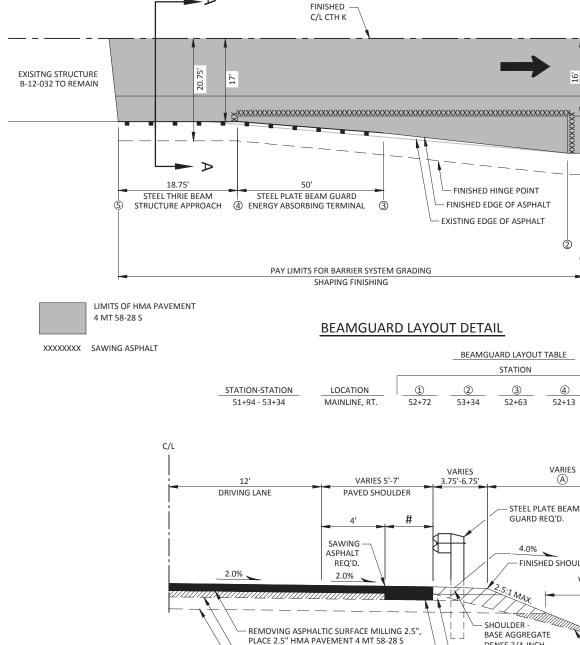
Ε

12' DRIVING

LANF

12' RIGHT TURN LANE

REMOVE ASPHALTIC SURFACE QUANTITIES TO BE INCLUDED IN THE EXCAVATION COMMON QUANTITIES. EXCAVATION COMMON QUANTITIES PAID FOR UNDER THE BARRIER SYSTEM GRADING SHAPING AND FINISHING BID ITEM.



VARIES - STEEL PLATE BEAM GUARD REO'D. 4.0% FINISHED SHOULDER POINT VARIES ROUNDED - SHOULDER -BASE AGGREGATE PLACE 2.5" HMA PAVEMENT 4 MT 58-28 S DENSE 3/4-INCH EXISTING 3.5" HMA PAVEMENT - SHOULDER - EXISTING CRUSHED SLOPE INTERCEPT AGGREGATE BASE COURSE - EXISTING 9" BASE COURSE MATERIAL - EXISTING GROUNDLINE PLACE 5.5" HMA PAVEMENT 4 MT 58-28 S - 3" LOWER LAYER

BASE AGGREGATE DENSE 3/4-INCH REQ'D.

BORROW MATERIAL (PAID FOR UNDER BARRIER SYSTEM GRADING SHAPING FINISHING)

ELIMITS OF FERTILIZER TYPE B AND SEEDING MIXTURE NO. 30 (AS DIRECTED BY THE ENGINEER). PAID FOR UNDER BARRIER SYSTEM GRADING SHAPING FINISHING BID ITEM. LIMITS OF EROSION MAT URBAN CLASS I TYPE B (AS DIRECTED BY THE ENGINEER).

SECTION A-A

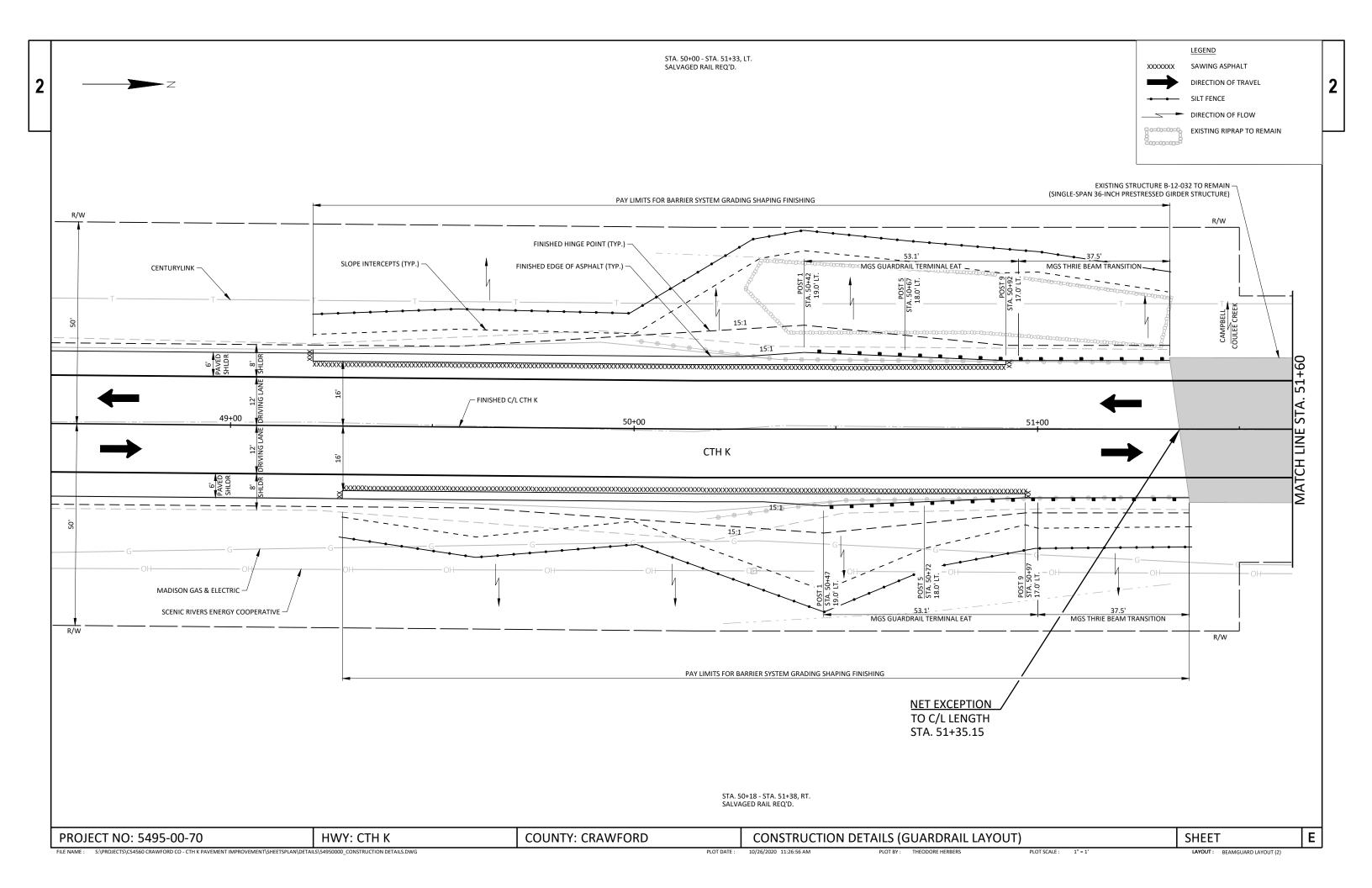
- (B) LIMITS OF SALVAGED TOPSOIL (AS DIRECTED BY THE ENGINEER). PAID FOR UNDER BARRIER SYSTEM GRADING SHAPING FINISHING BID ITEM.
- # PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA. 52+13 - STA. 53+34, RT.

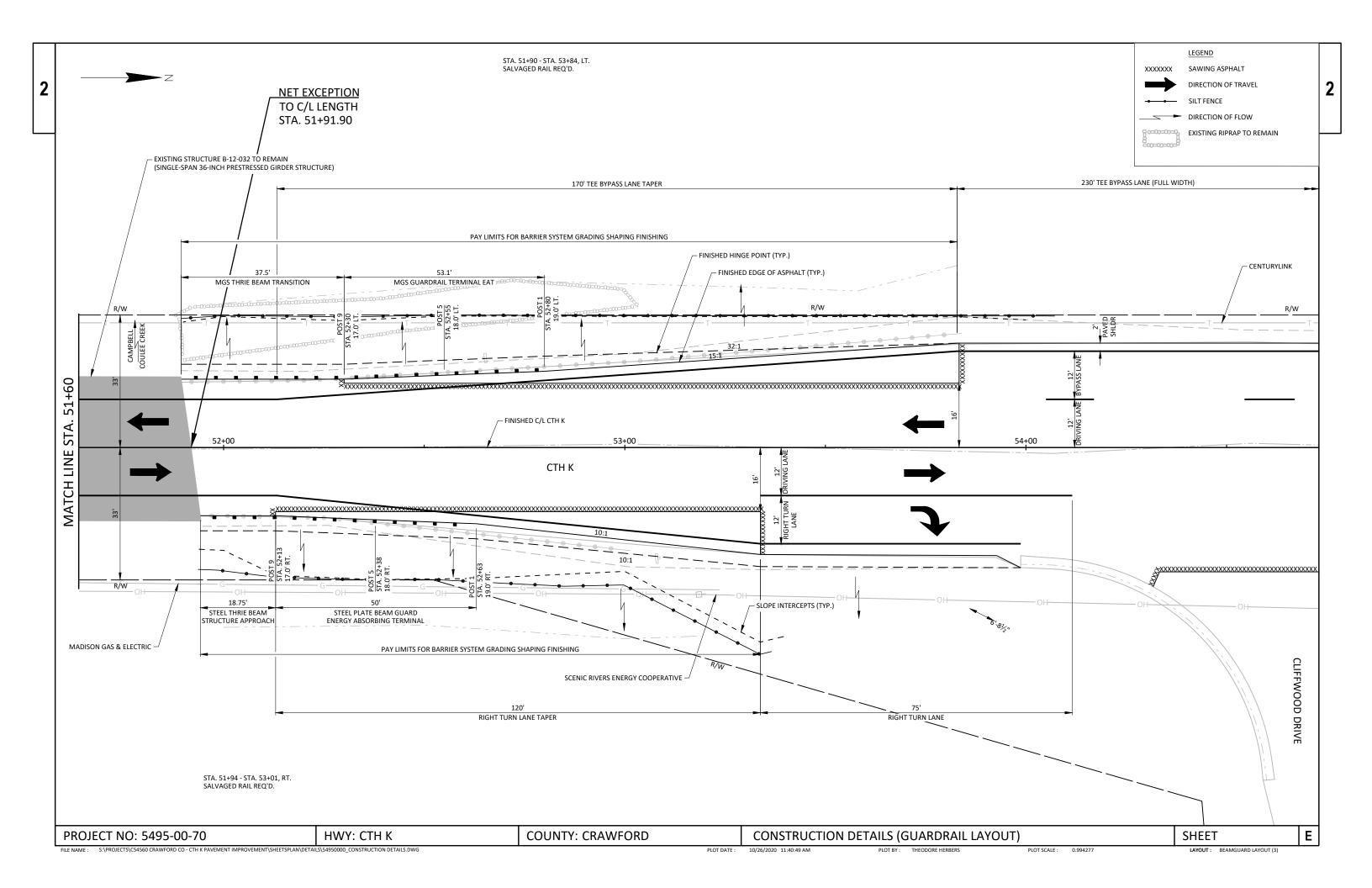
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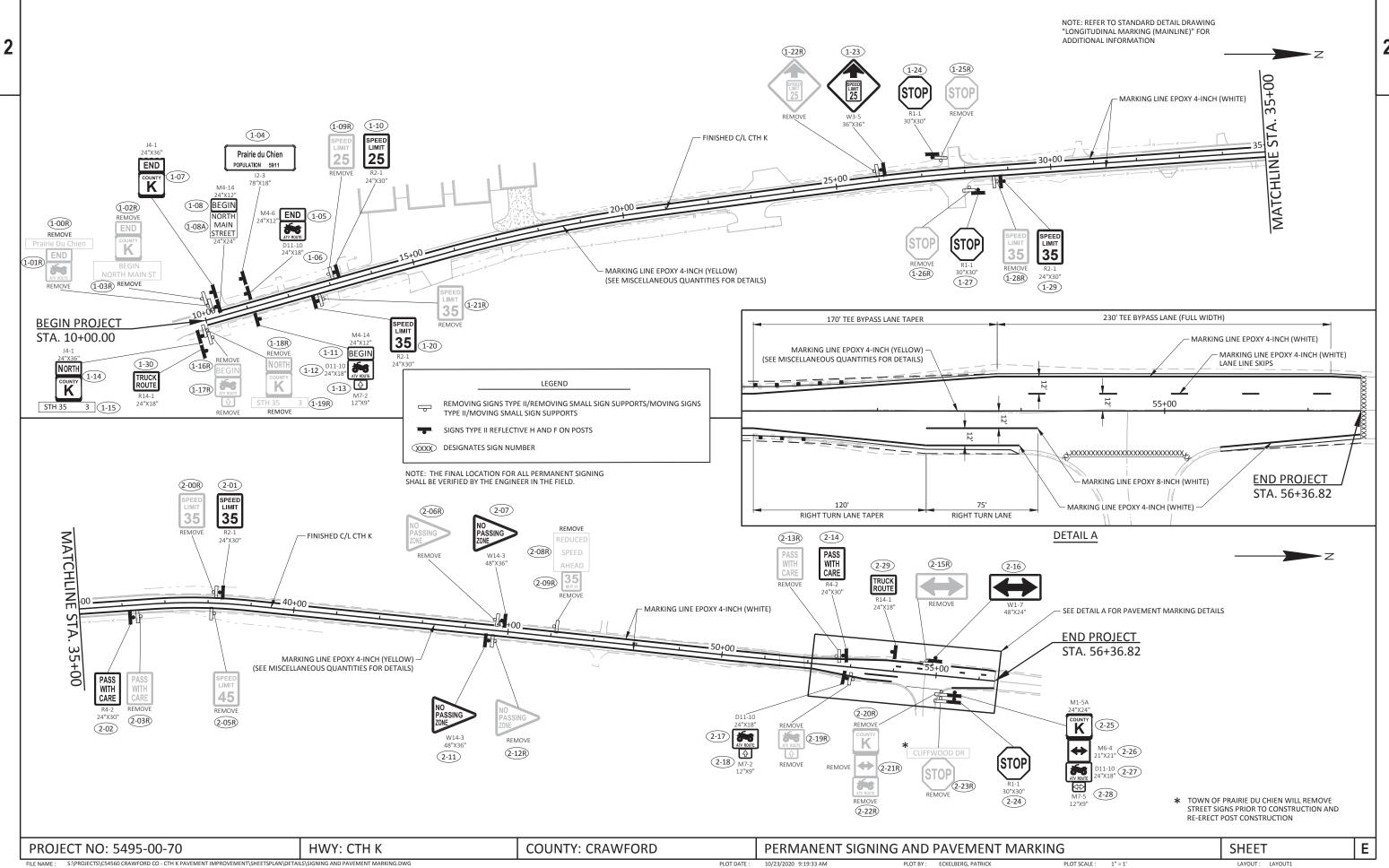
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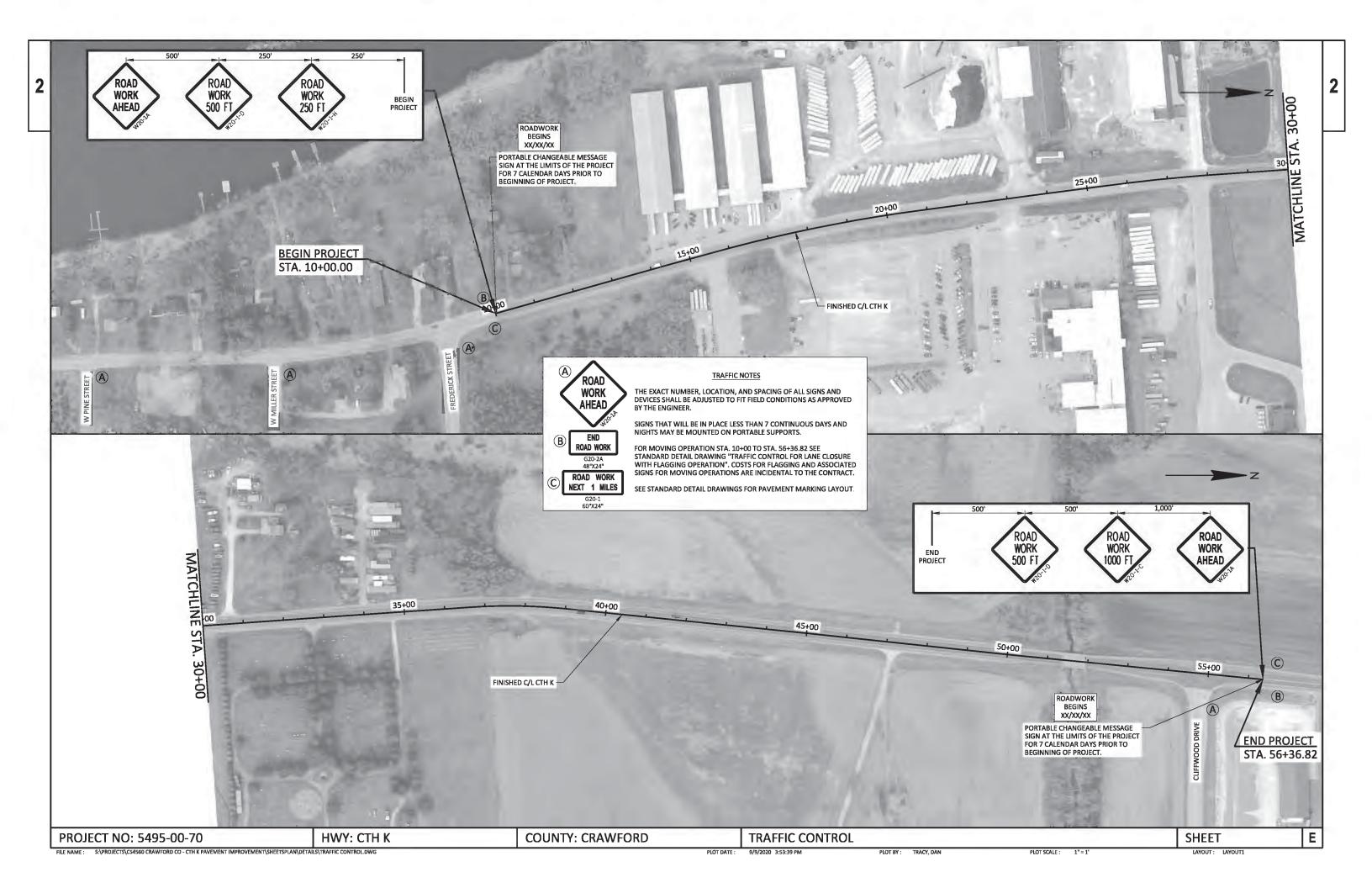
ECKELBERG, PATRICK

LAYOUT: BEAMGUARD LAYOUT









					5495-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Concrete Pavement	SY	315.000	315.000
0002	204.0100	Removing Asphaltic Surface Butt Joints	SY	1,700.000	1,700.000
0004	204.0113	Removing Asphaltic Surface Milling	SY	18,600.000	18,600.000
		• .	EACH	3.000	
0008	204.0180	Removing Delineators and Markers			3.000
0010	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	8.000	8.000
0012	213.0100	Finishing Roadway (project) 01. 5495-00-70	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,480.000	1,480.000
0016	305.0500	Shaping Shoulders	STA	81.000	81.000
0018	455.0605	Tack Coat	GAL	1,880.000	1,880.000
0020	460.2000	Incentive Density HMA Pavement	DOL	2,660.000	2,660.000
0022	460.6224	HMA Pavement 4 MT 58-28 S	TON	4,150.000	4,150.000
0024	465.0105	Asphaltic Surface	TON	50.000	50.000
0026	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	275.000	275.000
0028	465.0315	Asphaltic Flumes	SY	24.000	24.000
0030	614.0010	Barrier System Grading Shaping Finishing	EACH	4.000	4.000
0032	614.0200	Steel Thrie Beam Structure Approach	LF	21.000	21.000
0034	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	1.000	1.000
0036	614.0920	Salvaged Rail	LF	560.000	560.000
0038	614.2500	MGS Thrie Beam Transition	LF	120.000	120.000
0040	614.2610	MGS Guardrail Terminal EAT	EACH	3.000	3.000
0040	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
0042	010.0100	5495-00-70	EACH	1.000	1.000
0044	619.1000	Mobilization	EACH	1.000	1.000
0046	624.0100	Water	MGAL	23.000	23.000
0048	628.1504	Silt Fence	LF	1,000.000	1,000.000
0050	628.1520	Silt Fence Maintenance	LF	1,000.000	1,000.000
0052	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0054	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0056	628.2008	Erosion Mat Urban Class I Type B	SY	930.000	930.000
0058	628.7010	Inlet Protection Type B		6.000	6.000
	630.0500	Seed Water	EACH MGAL	10.000	10.000
0060					
0062	633.5200	Markers Culvert End	EACH	5.000	5.000
0064	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	10.000	10.000
0066	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	15.000	15.000
0068	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	1.000	1.000
0070	637.2210	Signs Type II Reflective H	SF	111.480	111.480
0072	637.2230	Signs Type II Reflective F	SF	28.120	28.120
0074	638.2602	Removing Signs Type II	EACH	28.000	28.000
0076	638.3000	Removing Small Sign Supports	EACH	21.000	21.000
0078	642.5001	Field Office Type B	EACH	1.000	1.000

Estimate Of Quantities

5495-00-70

Page 2

Line	Item	Item Description	Unit	Total	Qty
0080	643.0300	Traffic Control Drums	DAY	200.000	200.000
0082	643.0900	Traffic Control Signs	DAY	660.000	660.000
0084	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0086	643.5000	Traffic Control	EACH	1.000	1.000
8800	646.1020	Marking Line Epoxy 4-Inch	LF	17,260.000	17,260.000
0090	646.3020	Marking Line Epoxy 8-Inch	LF	75.000	75.000
0092	648.0100	Locating No-Passing Zones	MI	0.380	0.380
0094	649.0105	Temporary Marking Line Paint 4-Inch	LF	12,140.000	12,140.000
0096	650.8000	Construction Staking Resurfacing Reference	LF	4,637.000	4,637.000
0098	650.9910	Construction Staking Supplemental Control (project) 02. 5495-00-70	LS	1.000	1.000
0100	690.0150	Sawing Asphalt	LF	1,365.000	1,365.000
0102	690.0250	Sawing Concrete	LF	205.000	205.000
0104	740.0440	Incentive IRI Ride	DOL	3,520.000	3,520.000
0106	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0108	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0110	SPV.0060	Special 01. Adjusting Valve Boxes	EACH	1.000	1.000
0112	SPV.0060	Special 02. Landmark Reference Monuments Special	EACH	3.000	3.000
0114	SPV.0060	Special 03. Verify Landmark Reference Monuments	EACH	3.000	3.000
0116	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	410.000	410.000

			BARRIER S	SYSTEM GRA	DING SHA	APING FINI	ISHING & ERC	SION MAT				
REMOVING PAVEMENT 204.0100	STATION - STATION LOCATION 49+20 - 51+33 MAINLINE, LT. 49+28 - 51+38 MAINLINE, RT. 51+89 - 53+83 MAINLINE, LT. 51+94 - 53+34 MAINLINE, RT. UNDISTRIBUTED TOTALS =	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING (EACH) 1 1 1 -	EXCAVATION COMMON (CY) 1 2 0 0	BORROW (CY) 59 26 11 14 -	SALVAGED TOPSOIL (SY) 250 130 217 148 -		SEEDING MIXTU NO. 20 (LB) 7 4 6 4		CONSTRUCTIC STAKING SLOPE STAKE (LF) 212 210 194 140 - 756	EROSIO	28.2008 IN MAT URBAN SS I TYPE B (SY) 250 130 217 148 185	630.0500 SEED WATER (MGAL) - - - - 10
REMOVING ASPHALTIC SURFACE BUTT JOINTS 204.0115 (SY) (SY) (SY)	BASE AGGREGATE STATION - STATION LOCATION 10+00 - 56+36.82 MAINLINE - P.E. / F.E. / C.E UNDISTRIBUTED TOTAL	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON) 800 635	<u></u>	STATION - STATIO 10+00 - 30+38 10+45 13+95 - 18+15 15+50	MAII P.E C.E C.E.	ATION NLINE ., LT. ., LT. , RT.	455.0605 TACK COAT (GAL) 1004 2 23 6	MA PAVEMEN 460.2000 INCENTIVE DENSITY HMA PAVEMENT (DOL)	460.6224 HMA	465.0105 SPHALTIC SURFACE (TON) - - - - -	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON) - 5 140 30	SPV.0180.01 REMOVING DISTRESSED PAVEMENT MILLING (SY)
REMOVING ASPHALTIC SURFACE MILLING 204.0120 STATION - STATION LOCATION (SY) 10+45 P.E., LT. 25 12+00 - 28+38 MAINLINE 6801 13+95 - 17+00 C.E., LT. 334 15+50 C.E., RT. 80 22+95 C.E., RT. 135		305.0500 CATION (STA.) INLINE 81 TOTAL: 81	_	22+95 23+40 30+38 - 56+36.82 - -	C.E MAII UNDIST	,, RT. ,, LT. NLINE RIBUTED DECT TOTALS =	10 15 790 30 - 1880	- - - 2660 2660	- 1550 - - - 4150	- - 50 - 50	45 55 - - - - 275	- - - 410 - 410
23+40 C.E., LT. 175 30+38 - 56+36.82 MAINLINE 11050	ASPHALTIC FLU	ASPHALTIC FLUMES		MGS GUARDRAIL/STEEL PLATE BEAMGUARD					RD			
TOTAL = 18600	STATION LOCATI 28+25 MAINLINE 30+38 MAINLINE 32+13 MAINLINE 37+19 MAINLINE	465.0315 ON (SY) E, LT. 6 E, RT. 6 E, LT. 6			STATION - ST 50+42 - 51 50+47 - 51 51+89 - 52 51+94 - 52	+33 MAI +38 MAI +80 MAI	S THF STF AP	RTEEL RIE BEAM STEE RUCTURE BEAM PROACH E (LF) (E 21	1.0370 614.2 L PLATE MGS T I GUARD BE, EAT TRANS ACH) (LI - 44 - 44 1 - 12	HRIE (614.2610 MGS GUARDRAIL TERMINAL EAT (EACH) 1 1 1	
PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	WATER						SA	LVAGED RAI				
STATION - STATION		224.0100 (MGAL) 23 23				50+0 50+ 51+9	DN - STATION 00 - 51+33 18 - 51+38 90 - 53+84 94 - 53+01	LOCATION MAINLINE, LT MAINLINE, RT. MAINLINE, LT MAINLINE, RT.	614.0920 (LF) 135 120 195 110 S = 560			
PROJECT NO: 5495-00-70 HWY: CTH K	COUNTY: CI	RAWFORD		MISCEL	LANEOUS	QUANTIT	ΓIES				SHEET	E

SAWING ASPHALT AND SAWING CONCRETE 690.0150 690.0250 SAWING SAWING ASPHALT CONCRETE STATION - STATION LOCATION COMMENTS (LF) MAINLINE MAINLINE, LT. P.E. 13 MAINLINE, LT. 295 C.E. MAINLINE, RT. 68 C.E. MAINLINE, LT. 102 C.E. MAINLINE, RT. C.E. MAINLINE, LT. 86 C.E. 63 MAINLINE, RT. C.E. MAINLINE, LT. 19 40 C.E. MAINLINE, RT. 172 BEAMGUARD MAINLINE, LT. 176 BEAMGUARD BEAMGUARD MAINLINE, RT. 133 MAINLINE, LT. 164 BEAMGUARD MAINLINE, RT. 89 SIDEROAD (CLIFFWOOD DRIVE) MAINLINE 44 TOTAL= 1365 205 MOBILIZATION EROSION CONTROL 628.1910 628.1905 MOBILIZATION MOBILIZATION **EMERGENCY EROSION EROSION** CONTROL CONTROL PROJECT (EACH) (EACH) 5495-00-70 2 TOTALS = LOCATING NO PASSING ZONES NOTE: LOCATING NO PASSING ZONES NOT REQUIRED STA. 10+00 - STA. 36+40 (TO REMAIN DOUBLE YELLOW)

PAVEMENT MARKING

				646.1 MARKIN EPOXY	G LINE		646.3020 MARKING LINE EPOXY 8-INCH	TEMPORAL	.0105 RY MARKING NT 4-INCH
			YELLOW	YELLOW	WHITE	WHITE	WHITE	YELLOW	YELLOW
			SOLID	12.5' SKIPS	SOLID	12.5' SKIPS	SOLID	SOLID	12.5' SKIPS
STATION - STATION	LOCATION	DESCRIPTION	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
10+00 - 56+36.82	MAINLINE	WHITE EDGELINES	-	-	9135	-	-	-	-
10+00 - 30+38	MAINLINE	DOUBLE YELLOW	-	-	-	-	-	8154	-
10+00 - 36+40	MAINLINE	DOUBLE YELLOW	5280	-	-	-	-	-	-
30+38 - 36+40	MAINLINE	DOUBLE YELLOW	-	-	-	-	-	1204	-
36+40 - 44+70	MAINLINE	NB PASSING ONLY	830	213	-	-	-	830	213
44+70 - 52+65	MAINLINE	SB PASSING ONLY	795	200	-	-	-	795	200
52+65 - 56+36.82	MAINLINE	DOUBLE YELLOW	744	-	-	-	-	744	-
53+34 - 54+09	MAINLINE, RT.	TURN LANE	-	-	-	-	75	-	-
54+05 - 56+16	MAINLINE	BYPASS LANE	-	-	-	63	-	-	-
		SUBTOTALS =	7649	413	9135	63	75	11727	413
	-	TOTALS=		172	60		75	12	140

SILT FENCE

		628.1504	628.1520 SILT FENCE
		SILT FENCE	MAINTENANCE
STATION - STATION	LOCATION	(LF)	(LF)
49+20 - 51+33	MAINLINE, LT	219	219
49+27 - 51+38	MAINLINE, RT.	218	218
51+89 - 54+07	MAINLINE, LT	218	218
51+94 - 53+37	MAINLINE, RT.	147	147
-	UNDISTRIBUTED	198	198
-	TOTALS =	1000	1000

INLET PROTECTION TYPE B

		628.7010
STATION	LOCATION	(EACH)
15+38	MAINLINE, LT.	1
17+38	MAINLINE, LT.	1
18+19	MAINLINE, LT.	1
21+64	MAINLINE, RT.	1
22+44	MAINLINE, RT.	1
27+18	MAINLINE, RT.	1
	TOTAL -	_

TOTAL = 6

MARKERS CULVERT END

		633.5200
STATION	LOCATION	(EACH)
13+71	MAINLINE	2
28+21	MAINLINE	2
31+35	MAINLINE, LT.	1
	TOTAL =	5

TRAFFIC CONTROL

	643.0300	643.0900	643.1050 SIGNS	643.5000 TRAFFIC
	DRUMS	SIGNS	PCMS	CONTROL
LOCATION	(DAY)	(DAY)	(DAY)	(EACH)
PROJECT	-	660	14	1
UNDISTRIBUTED	200		-	
TOTALS =	200	660	14	1

			648.0100
PROJECT	STATION - STATION	LOCATION	(MI)
5495-00-70	36+40 - 56+36.82	MAINLINE	0.38
		TOTAL =	0.38

10+45

14+08 - 17+02

15+50

17+00 - 18+15

22+95

23+40

27+75

27+80

49+28 - 50+97

49+20 - 50+92

52+13 - 53+34

52+30 - 53+83

54+32 - 55+17

56+36.82

CONSTRUCTION STAKING

		CONSTRUCTION STAKING				
		650.8000	650.9910			
		RESURFACING	SUPPLEMENTAL			
		REFERENCE	CONTROL			
STATION - STATION	LOCATION	(LF)	(LS)			
10+00 - 56+36.82	MAINLINE	4637	-			
-	PROJECT	-	1			
	TOTALS =	4637	1			

ADJUSTING VALVE BOXES

		SPV.0060.01
STATION	LOCATION	(EACH)
22+78	MAINLINE, 17.7' RT.	1
TOTAL:		1

SECTION CORNERS

I ANDMARK REFERENCE

		LANDWARK REFERENCE	VERIFY LANDIVIARK
		MONUMENTS SPECIAL	REFERENCE MONUMENTS
		SPV.0060.02	SPV.0060.03
STATION	LOCATION	(EACH)	(EACH)
12+38	MAINLINE, 4.4' LT.	1	1
15+87	MAINLINE, 7.7' LT.	1	1
19+80	MAINLINE, 35.5' LT.	1	1
TOTAL:		3	3

PROJECT NO: 5495-00-70

HWY: CTH K

COUNTY: CRAWFORD

MISCELLANEOUS QUANTITIES

PLOT SCALE : 1" = 1'

SHEET

Ε

VEDIEV I ANDMARK

PERMANENT SIGNING

							637.2210	637.2230	E007			638.2602	638.3000	
							SIGNS	SIGNS		S WOOD 4X		REMOVING		CION MOUNTED
SIGN APPROX.			SIGN			0175	TYPE II	TYPE II REFLECTIVE F		634.0616	634.0618	SIGNS TYPE II	SWALL SIGN SUPPORTS	SIGN MOUNTED
SIGN APPROX. NUMBER STATION	LOCATION	POSITIIO		SIGN DESCRIPTION	ORDER LINES	SIZE (INCH X INCH)	(SF)	(SF)	14 FT (EACH)	16 FT (EACH)	18 FT (EACH)	(EACH)	(EACH)	ON SAME POST AS
1-00R 10+12	MAINLINE			MUNICIPALITY POPULATION SIGN					(EACH)	(EACH)		1 (EACH)	(EACH)	
1-00R 10+12 1-01R 10+12	MAINLINE	LEFT LEFT	12-3 D11-10	ATV ROUTE W/ SYMBOL	PRAIRIE DU CHIEN	48X15 24X18	-	-	-	-	-	1	ı	- 1-00R
1-02R 10+12	MAINLINE	LEFT	J4-1	REASSURANCE ASSEMBLY	END, K	24X36	-	•	-	-	-	1	- 1	-
1-02R 10+12 1-03R 10+12	MAINLINE	LEFT	J4-1	STREET SIGN	BEGIN NORTH MAIN ST	24X36	-	-	-	-	-	1	ı	1-02R
1-03R 10+12	MAINLINE	LEFT	12-3	MUNICIPALITY POPULATION SIGN	PRAIRIE DU CHIEN	78X18	9.75	•	-	•	-	1	•	
1-05 11+10	MAINLINE	LEFT	12-3 M 4 -6	END	END	24X12	2.00	-	2	-	-	-	-	-
1-06 11+10	MAINLINE	LEFT	D11-10	ATV ROUTE W/ SYMBOL	END	24X18	3 00	-	-	'	-	-	-	1-05
		LEFT	J4-1	REASSURANCE ASSEMBLY	END, K			•	-	- 1	-	-	•	
1-07 10+12	MAINLINE					24X36	6.00	-	-	1	-	-	-	-
1-08 10+12	MAINLINE	LEFT	-	BEGIN	BEGIN	24X12	2.00	-	-	1	-	-	-	-
1-08A 10+12	MAINLINE	LEFT	-	STREET SIGN	NORTH MAIN ST	24X2 4	4.00	-	-		-	-	-	1-08
1-09R 13+02	MAINLINE	LEFT	R2-1	SPEED LIMIT	25	*	-	•	-	:	•	1	1	-
1-10 13+02	MAINLINE	LEFT	R2-1	SPEED LIMIT	25	24X30	5.00	-	-	1	-	-	-	-
1-11 11+10	MAINLINE	RIGHT	M4-14	BEGIN	BEGIN	24X12	2 00	•	-	1	-	-	•	•
1-12 11+10	MAINLINE	RIGHT	D11-10	ATV ROUTE W/ SYMBOL	-	24X18	3.00	-	-	-	-	-	-	1-11
1-13 11+10	MAINLINE	RIGHT	M7-2	ARROW PLAQUE	UP ARROW	12X9	0.75	•		•	-	-	•	1- 11
1-14 9+97	MAINLINE	RIGHT	J4-1	REASSURANCE ASSEMBLY	NORTH, K	24X36	6 00	-	-	1	-	-	•	-
1-15 9+97	MAINLINE	RIGHT	D2-1	DISTANCE SIGN	HWY 35	66X15	6.88	-	-	2	-	-	-	-
1-16R 10+00	MAINLINE	RIGHT	M4-14	BEGIN	BEGIN	24X12	-	•	-	•	-	1	2	
1-17R 10+00	MAINLINE	RIGHT	D11-10	ATV ROUTE W/ SYMBOL	- NODTIL #	24X30	-	-	-	-	-	1	-	1-16R
1-18R 10+00	MAINLINE	RIGHT	J4-1	REASSURANCE ASSEMBLY	NORTH, K	24X36	-	-	-	•		1	•	1-16R
1-19R 10+00	MAINLINE	RIGHT	-	DISTANCE SIGN	STH 35-3	36X15	-	-	-	-	-	1	-	1-18R
1-20 12+75	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	24X30	5 00	•	-	1	-	-	•	-
1-21R 12+75	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	24X30	-	-	-	-	-	1	1	-
1-22R 25+91	MAINLINE	LEFT	W3-5	SPEED REDUCTION AHEAD MPH	25	36X36	-	-	-	-	-	1	1	-
1-23 25+91	MAINLINE	LEFT	W3-5	SPEED REDUCTION AHEAD MPH	25	36X 36	-	9.00	-	1	-	-	-	-
1-24 27+47	MAINLINE	LEFT	R1-1	STOP	-	30X30	5.18	-	1	-	-	-	-	-
1-25R 27+47	MAINLINE	LEFT	R1-1	STOP	-	30X30	-	-	-	-	-	1	1	-
1-26R 28+07	MAINLINE	RIGHT	R1-1	STOP	-	30X30	-	-	-	-	-	1	1	-
1-27 28+07	MAINLINE	RIGHT	R1-1	STOP	-	30X30	5.18	-	7	-	-	-	-	-
1-28R 28+74	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	24X30	-	-	-	-	-	1	1	
1-29 28+74	MAINLINE	RIGHT	R2-1	SPEED LIMIT	35	24X30	5.00	-	7	-	-	-	-	-
1-30 10+00	MAINLINE	RIGHT	R14-1	TRUCK ROUTE	-	24X18	3.00	-	-	1	-	-	-	-
2-00R 38+11	MAINLINE	LEFT	R2-1	SPEED LIMIT	35	24X30	-	-	-	-	-	7	1	-
2-01 38+11	MAINLINE	LEFT	R2-1	SPEED LIMIT	35	24X30	5.00	-	-	1	-	-	-	-
2-02 36+41	MAINLINE	RIGHT	R4-2	PASS WITH CARE	-	24X30	5.00	-	-	7	-	-	-	
2-03R 36+41	MAINLINE	RIGHT	R4-2	PASS WITH CARE	-	24X30	-	-	-	-	-	1	1	-
2-05R 38+15	MAINLINE	RIGHT	R2-1	SPEED LIMIT	45	24X30	-	-	-	-	-	1	1	-
2-06R 44+66	MAINLINE	LEFT	W14-3	NO PASSING ZONE	-	48X36	-	-	-	-	-	1	1	-
2-07 44+66	MAINLINE	LEFT	W14-3	NO PASSING ZONE	-	48X36	-	5.56	-	1	-	-	-	-
2-08R 46+05	MAINLINE	LEFT	-	REDUCED SPEED AHEAD	•	24X30	-	•	-	•	-	1	1	
2-09R 46+05	MAINLINE	LEFT	W13-1	MPH	35	18X18	-	-	-	-	-	7	-	2-08R
2-11 44+73	MAINLINE	RIGHT	W14-3	NO PASSING ZONE	•	48X36	-	5.56	-	1	-	-	-	•
2-12R 44+73	MAINLINE	RIGHT	W14-3	NO PASSING ZONE	-	48X36	-	-	-	-	-	1	1	-
2-13R 52+65	MAINLINE	LEFT	R4-2	PASS WITH CARE	•	24X30	- 00	-	-	•	-	1	7	•
2-14 52+65	MAINLINE	LEFT	R4-2	PASS WITH CARE	<u>-</u>	24X30	5.00	-	1	-	-	-	- 4	-
2-15R 54+75	MAINLINE	LEFT	W1-7	TWO DIRECTION LARGE ARROW	•	48X24	-	9.00	- 1	•	-	1	7	•
2-16 54+75	MAINLINE	LEFT	W1-7	TWO DIRECTION LARGE ARROW	•	48X24	2.00	8.00	1	•	-	-	•	-
2-17 53+09	MAINLINE	RIGHT	D11-10	ATV ROUTE W/ SYMBOL	-	24X18	3.00	-	1	-	-	-	-	- 0.47
2-18 53+09	MAINLINE	RIGHT	M7-2	ARROW PLAQUE	UP ARROW	12X9	0 75	-	-	•	-	-	-	2-17
2-19R 53+09	MAINLINE	RIGHT	D11-10	ATV ROUTE W/ SYMBOL	-	24X30	-	-	-	-	-	1	1	
2-20R 55+15	MAINLINE	RIGHT	M1-5A	CTH ROUTE MARKER	K	24X24	-	-	-	•	-	1	1	
2-21R 55+15	MAINLINE	RIGHT	M6-4	DOUBLE DIRECTION ARROW	LEFT AND RIGHT ARROW	21X21	-	-	-	-	-	1	-	2-20R
2-22R 55+15	MAINLINE	RIGHT	D11-10	ATV ROUTE W/ SYMBOL	•	24X18	-	-	-	•	-	1	-	2-20R
2-23R 55+12	MAINLINE	RIGHT	R1-1	STOP	-	30X30		-	-	-	-	1	1	-
2-24 55+12	MAINLINE	RIGHT	R1-1	STOP	-	30X30	5.18	-	1	-	- 4	-	-	
2-25 55+15	MAINLINE	RIGHT	M1-5A	CTH ROUTE MARKER	K	24X24	4.00	-	-	-	1	-	-	- 2.05
2-26 55+15	MAINLINE	RIGHT	M6-4	DOUBLE DIRECTION ARROW	LEFT AND RIGHT ARROW	21X21	3.06	-	-	-	-	-	-	2-25
2-27 55+15	MAINLINE	RIGHT	D11-10	ATV ROUTE W/SYMBOL	LEET AND DIGHT ADDOM	24X18	3.00	-	-	-	-	-	-	2-25
2-28 55+15	MAINLINE	RIGHT	M7-5	ARROW PLAQUE	LEFT AND RIGHT ARROW	12X9	0.75	-	-	-	-	-	-	2-25
2-29 54+00	MAINLINE	LEFT	R14-1	TRUCK ROUTE	-	24X18	3.00	-	1	-	-	-	-	-
					PROJECT TOTAL	.s =	111.48	28.12	10	15	1	28	21	

FILE NAME: S:\PROJECTS\C54560 CRAWFORD CO - CTH K PAVEMENT IMPROVEMENT\SHEETSPLAN\DETAILS\54950000_MISCELLANEOUS QUANTITIES.DWG

PROJECT NO: 5495-00-70

COUNTY: CRAWFORD

MISCELLANEOUS QUANTITIES

SHEET

638.2602 638.3000

PLOT DATE : 10/23/2020 9:58:09 AM

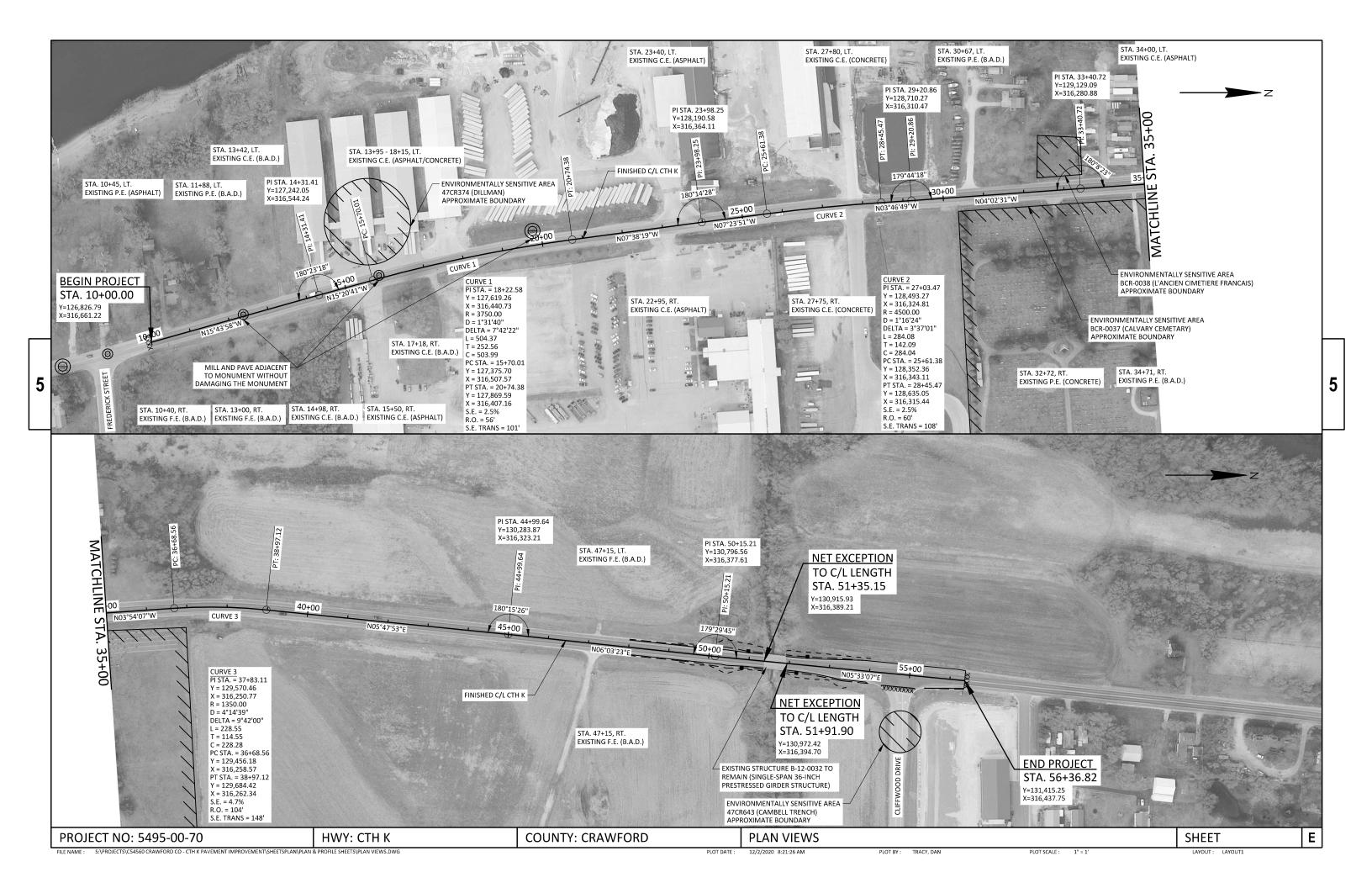
PLOT SCALE : 1" = 1'

LAYOUT: LAYOUT3

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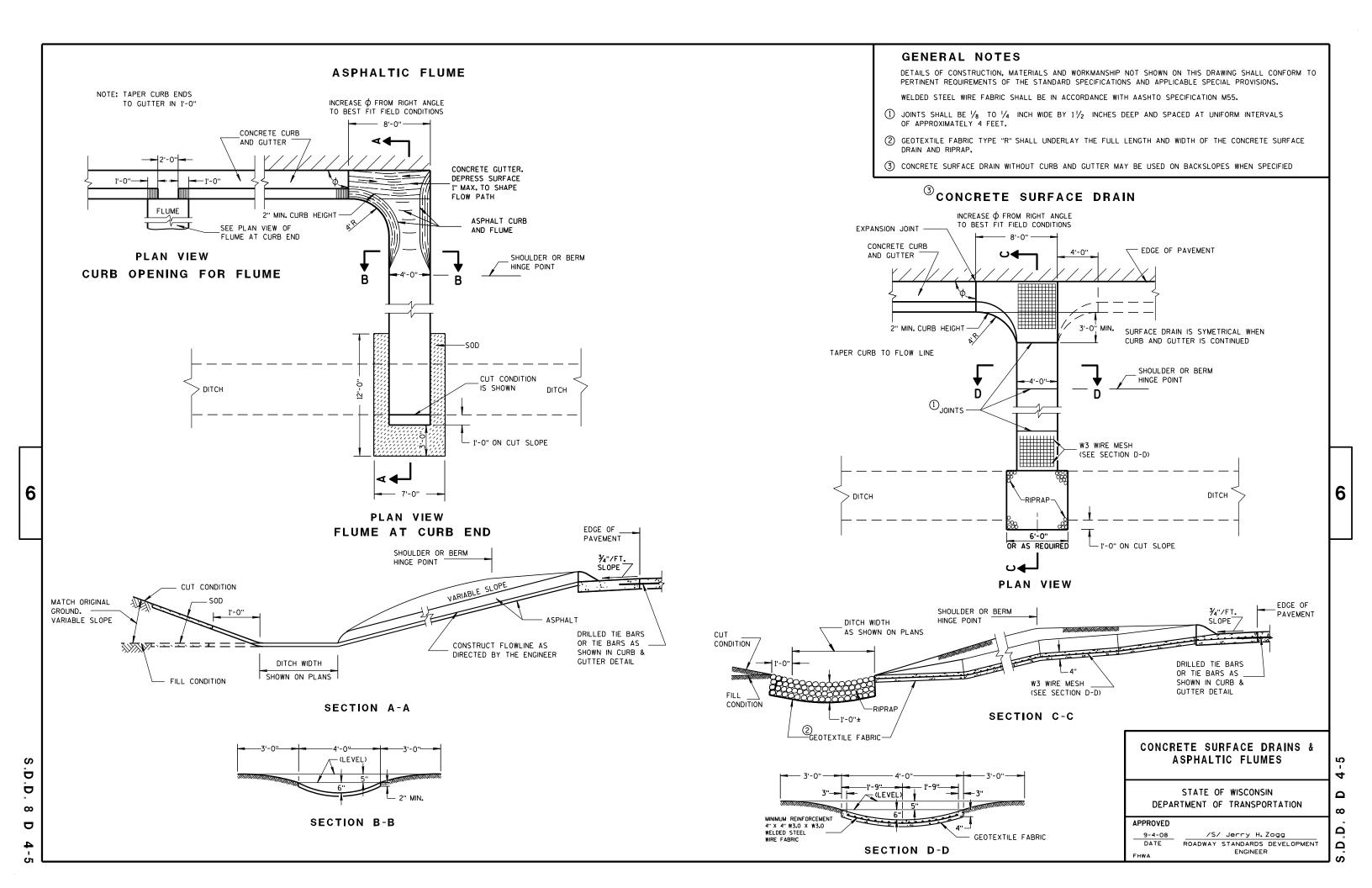
HWY: CTH K

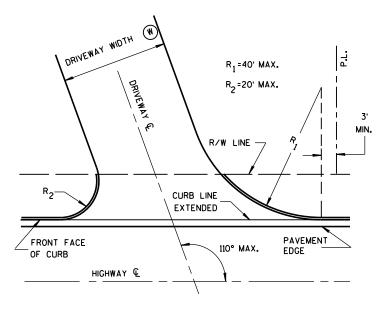
637.2210 637.2230



Standard Detail Drawing List

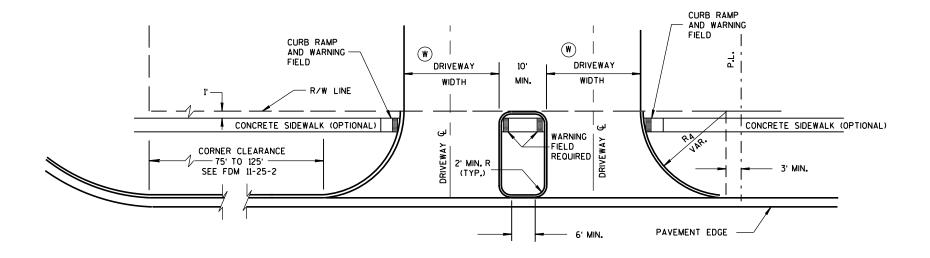
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13C19-02	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11E	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO BRIDGE RAILING TYPES "F" AND "W"
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14в24-09в	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14в24-09с	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-06в	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14в42-06С	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05в	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14в45-05С	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15А03-02В	FLEXIBLE MARKER POST FOR CULVERT END
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15С11-07В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS





SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS SIDEWALK SHOWN

NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

W DRIVEWAY WIDTHS:

COMMERCIAL - 35' MAX., 16' MIN.

RESIDENTIAL AND - 24' MAX., 12' MIN.

DRIVEWAYS WITH CURB & GUTTER RETURNS

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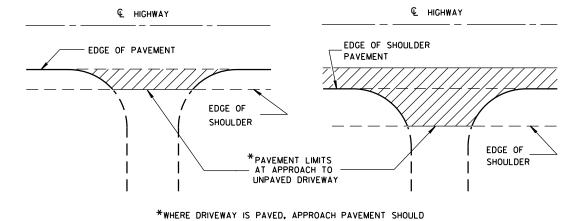
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DATE ROADWAY STANDARDS DEVELOPMENT
HWA UNIT SUPERVISOR

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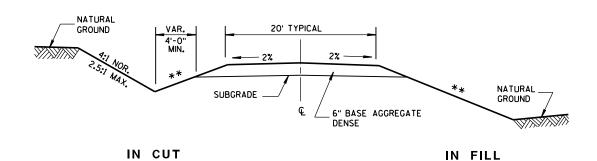
BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL

(NO CURB & GUTTER OR SIDEWALK)

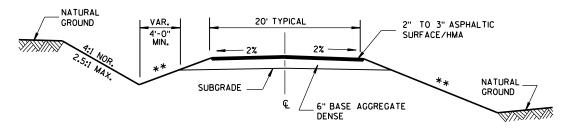


** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED MAX. SLOPE MPH 4:1

235 TO <60 6:1

260 10:1

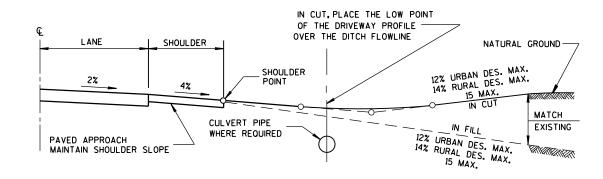


IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

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DEPARTMENT OF TRANSPORTATION

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December, 2016 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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GENERAL NOTES

1 DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.

EXISTING ASPHALTIC SURFACE DRIVEWAY — 8' TO 10' SHOULDER —= HMA PAVEMENT - 5' TO 20' -5' TO 7'-OVERLAY 2.00% 4.00% VARIES - EXISTING HMA PAVEMENT REMOVE EXISTING ASPH. PAV'T EXISTING BASE & BASE COURSE TO A DEPTH AGGREGATE DENSE SUFFICIENT TO PLACE 2" TO 3" ASPHALTIC SURFACE & 6" 2" TO 3" ASPHALTIC SURFACE (1) BASE AGGREGATE DENSE 6" BASE AGGREGATE MATCH EXISTING DRIVEWAY DENSE (MAY BE INCREASED FOR CLAY SUBGRADES)

PLAN VIEW

HALF SECTION

MATCH EXISTING DRIVEWAY — 8' TO 10' SHOULDER— 1 3' TO 5' 5' TO 20' - 5' TO 7'— HMA PAVEMENT OVERLAY 2.00% 4.00% VARIES 6" BASE AGGREGATE - DENSE (MAY BE INCREASED FOR CLAY SUBGRADES) _ EXISTING HMA PAVEMENT REMOVE EXISTING BASE COURSE EXISTING BASE AGGREGATE TO A DEPTH SUFFICIENT TO -PLACE 6" BASE AGGREGATE DENSE EXISTING CRUSHED - BASE AGGREGATE DENSE

PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

PROFILE VIEW

PLAN VIEW HALF SECTION

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE RESURFACING PROJECTS

DRIVEWAYS WITHOUT
CURB & GUTTER
RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
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December. 2016 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

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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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APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT 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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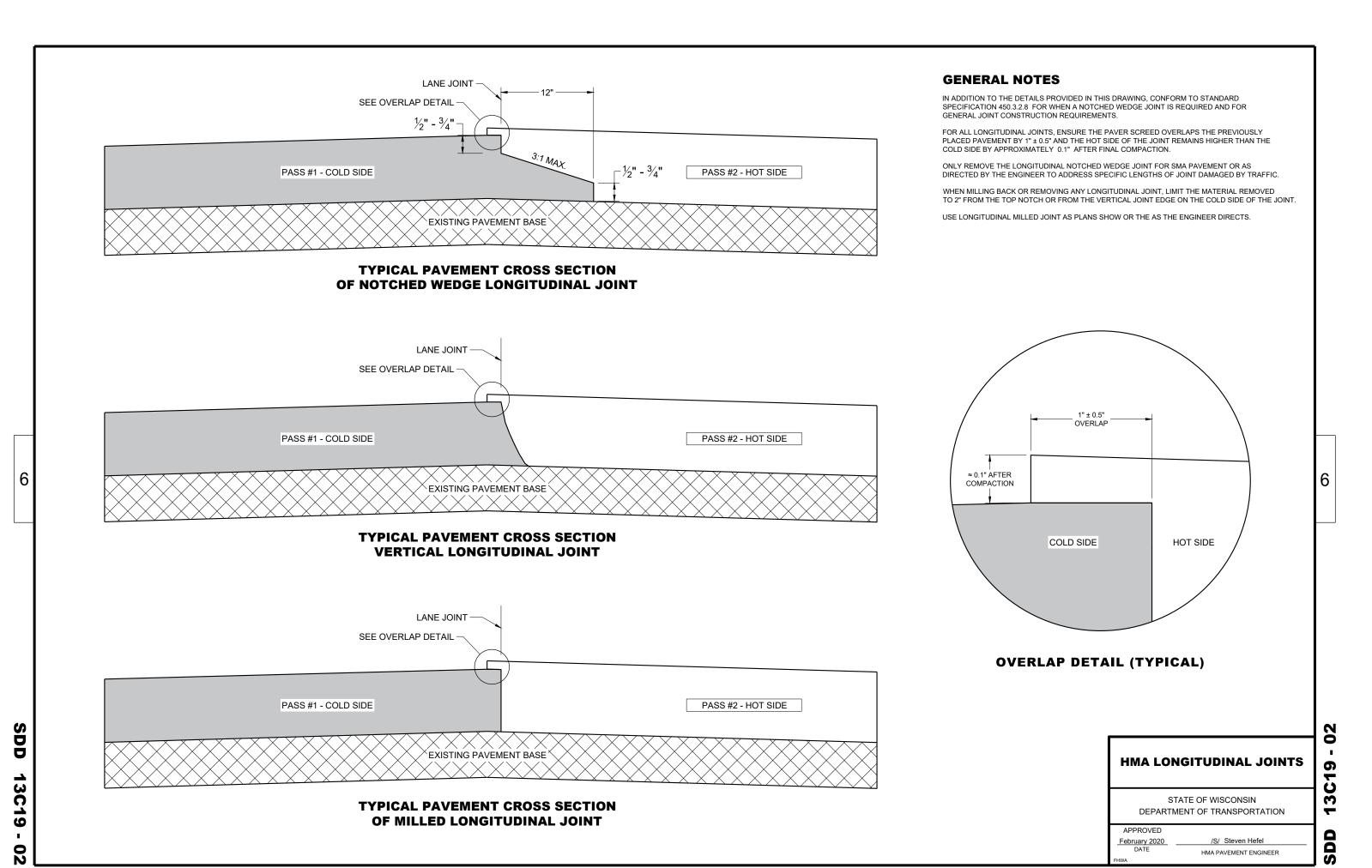
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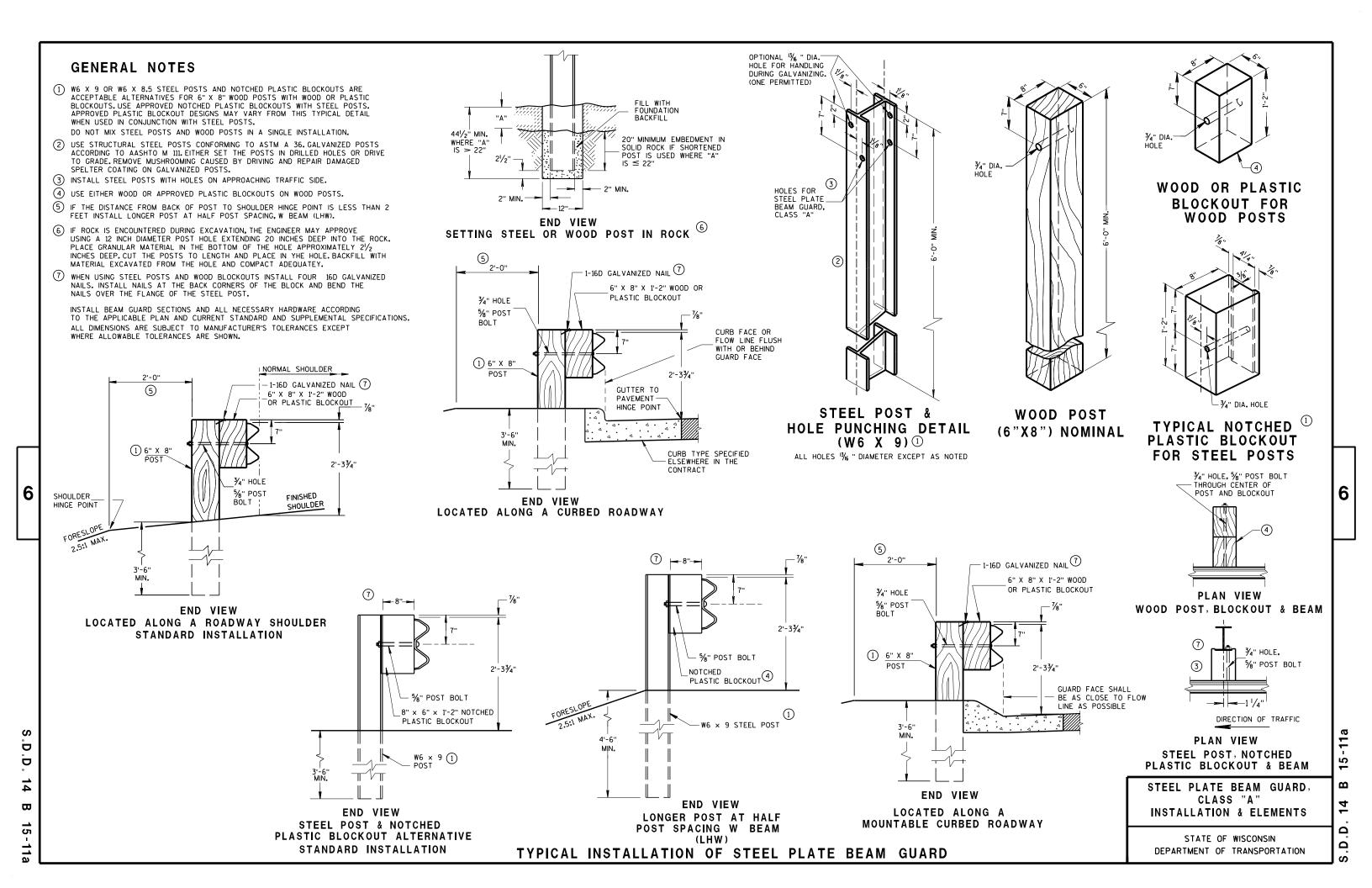
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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FRONT VIEW

POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0"

SECTION THRU W BEAM

SYMMETRICAL

 $\frac{3}{4}$ " × $2\frac{1}{2}$ " POST BOLT SLOT

ABOUT & -12 GAGE

121/2" LAP WOOD OR PLASTIC BLOCKOUT FINISHED SHOULDER DIRECTION OF TRAFFIC FRONT VIEW

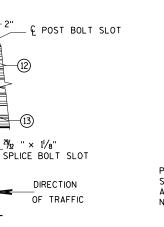
BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

121/2" LAP

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA, START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (13) 5%" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5%" DIA. F844 FLAT WASHER UNDER NUT.



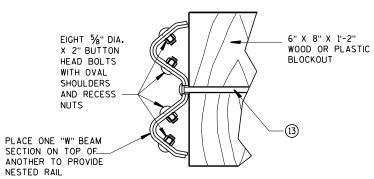
FRONT VIEW BEAM SPLICE AT STEEL POST

NOTCHED

PLASTIC

BLCKOUT

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

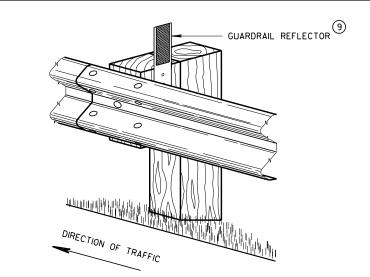
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

EFFECTIVE LENGTH OF BEAM 3'-11/2" C-C 3'-11/2" C-C 3'-1¹/₂" C-C 3'-1¹/₂" C-C POST SPACING SPACING **SPACING** SPACING FINISHED DIRECTION OF SHOULDER TRAFFIC

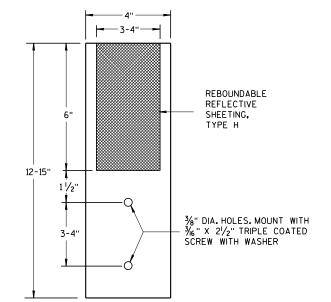
FRONT VIEW

POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN), USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", **INSTALLATION & ELEMENTS**

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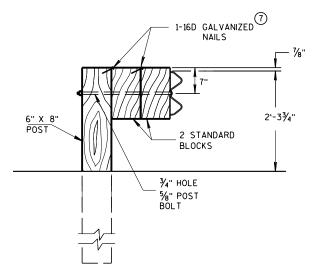
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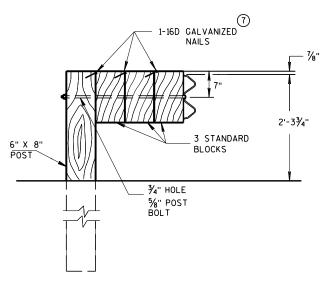
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AND TYPICAL INSTALLATION *



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

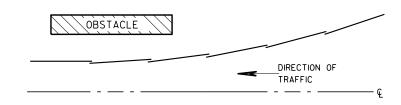


DETAIL FOR TRIPLE BLOCKS

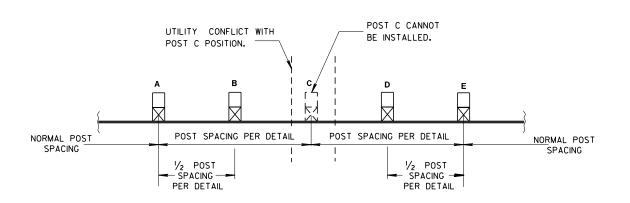
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

DATE

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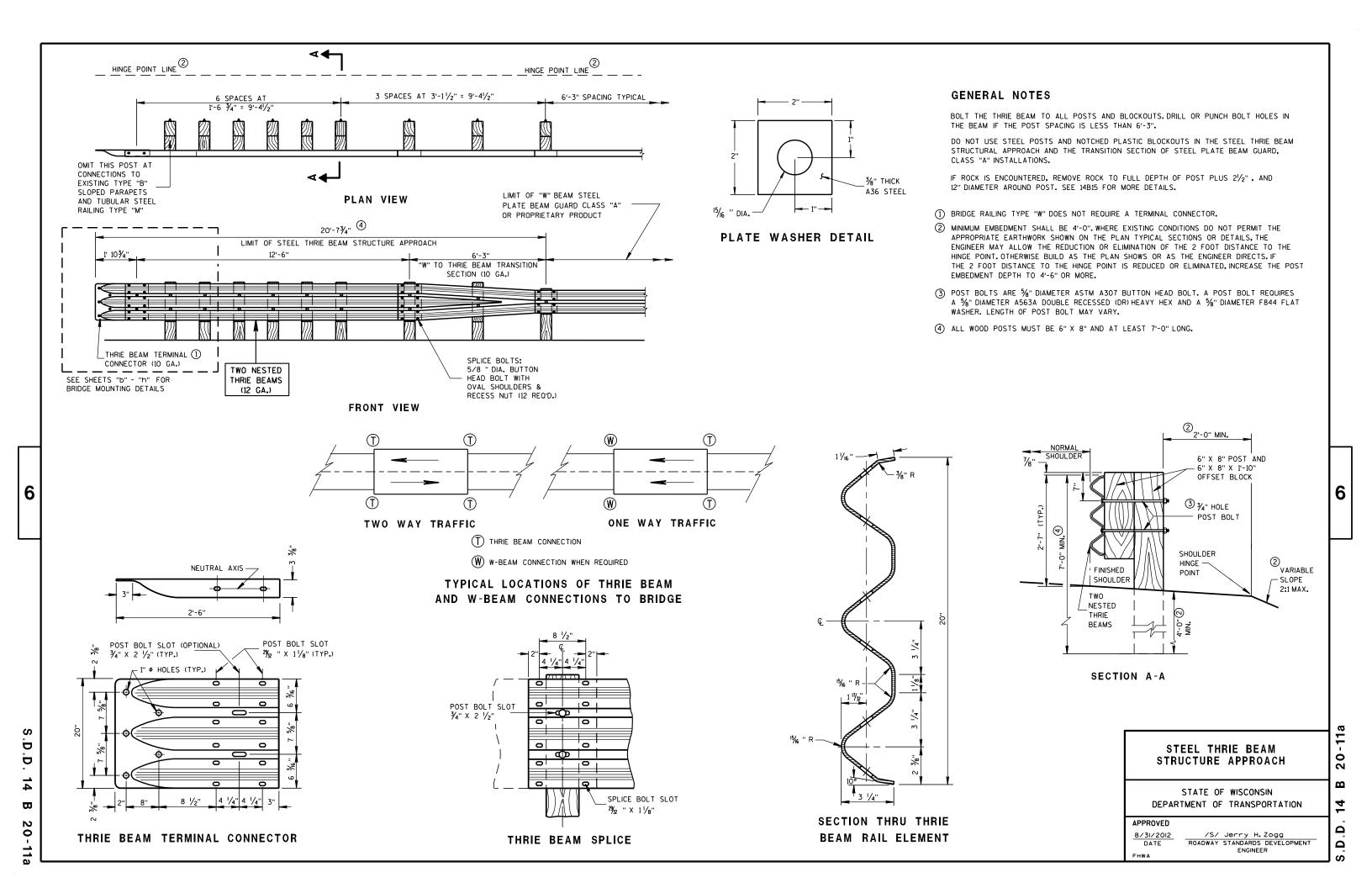
/S/ Rodney Taylor

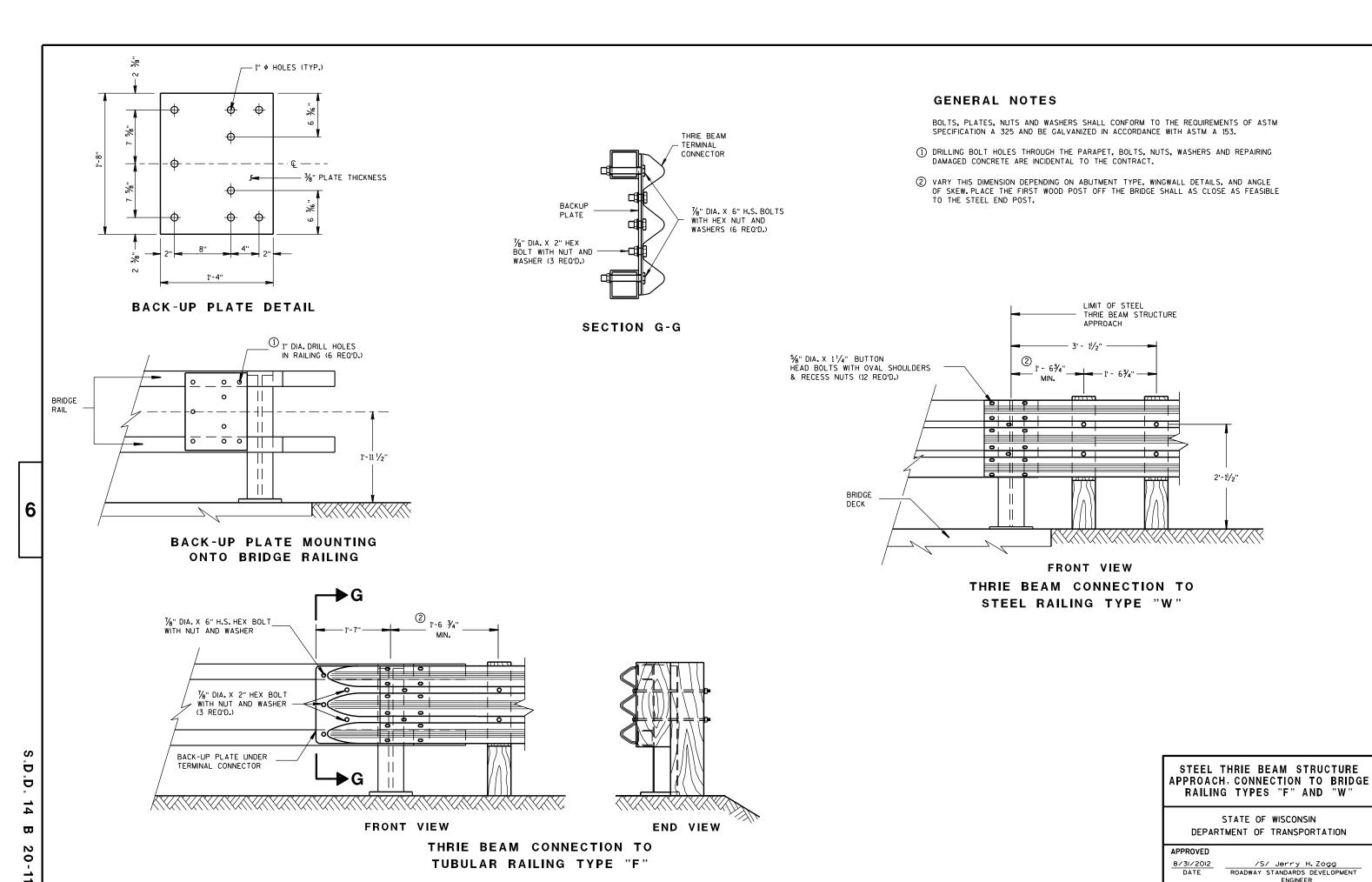
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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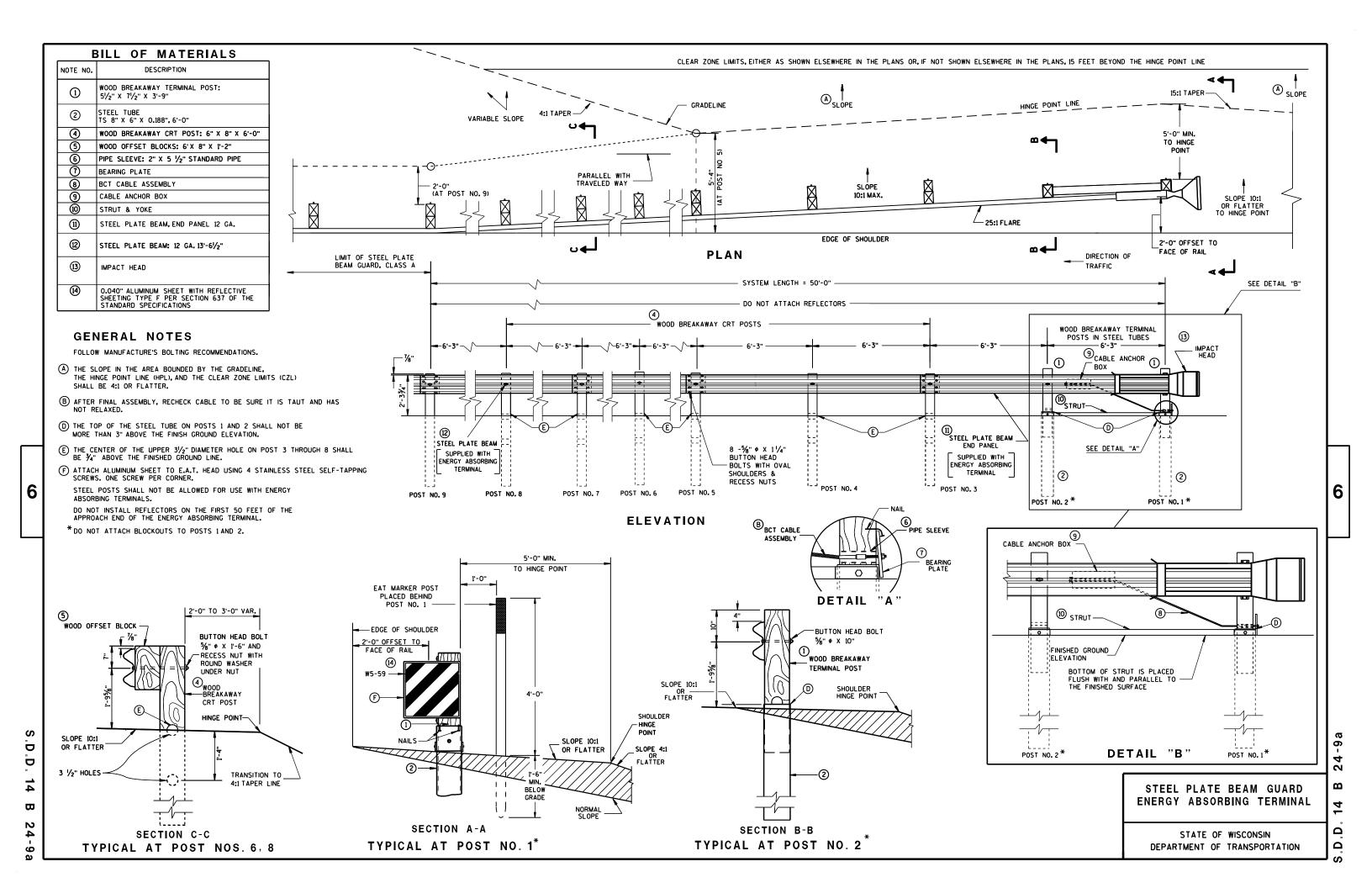
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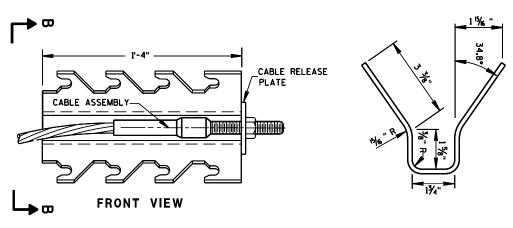




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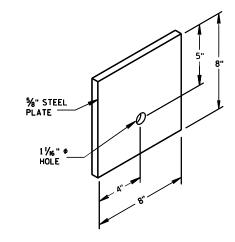
ENGINEER





SECTION B-B

(9) CABLE ANCHOR BOX



[⊙]STEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

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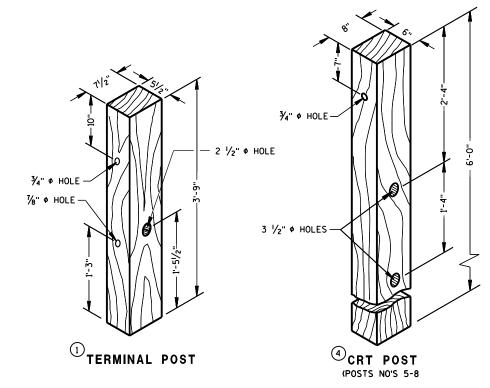
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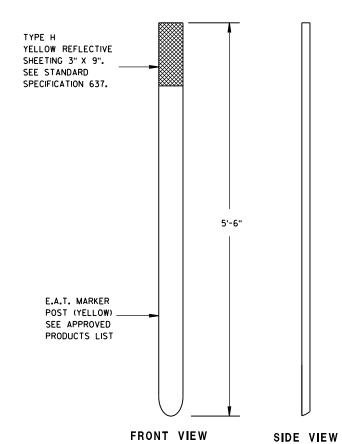
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DEPARTMENT OF TRANSPORTATION

(4) REFLECTIVE SHEETING DETAILS



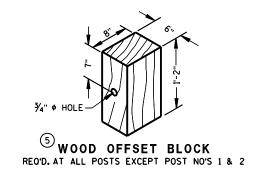
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



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STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2017

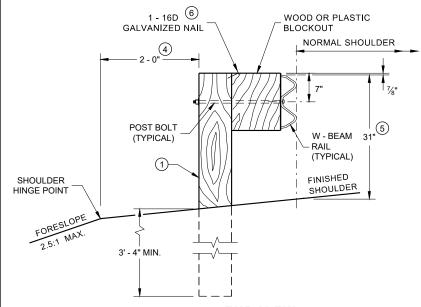
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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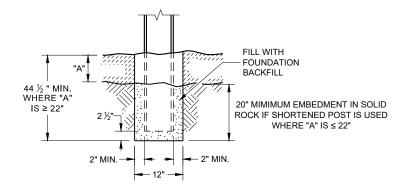
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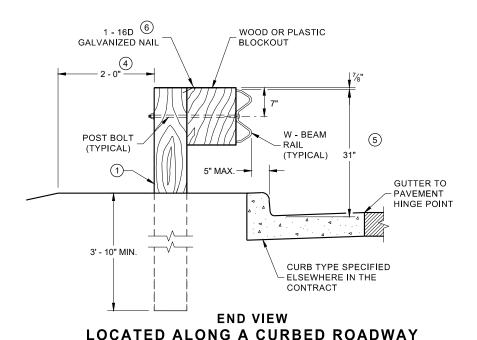
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- 3 IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $_{\mbox{\scriptsize (5)}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 $^3\!4''$ TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

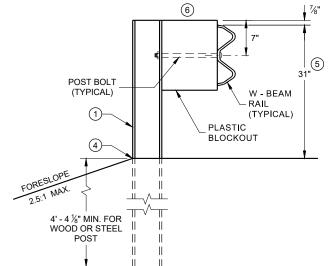


END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

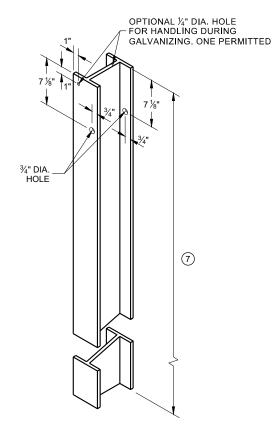


SETTING STEEL OR WOOD POST IN ROCK

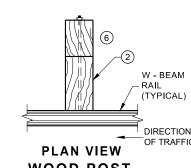




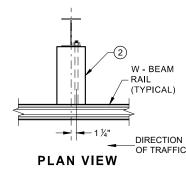




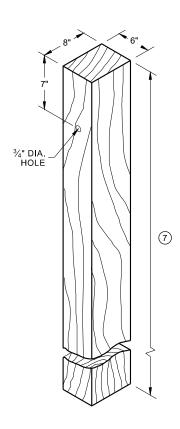
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) ①



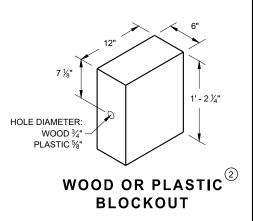
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SD

DIRECTION OF TRAFFIC **FRONT VIEW** HALF POST SPACING (HS) AND

HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

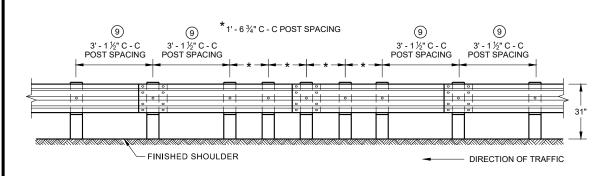
6' 3" C - C

POST SPACING

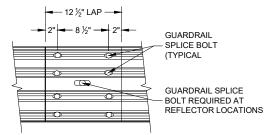
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

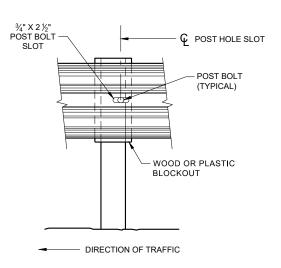
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

GENERAL NOTES

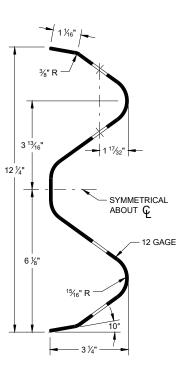
(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

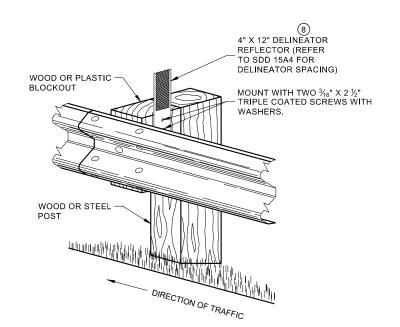


POST BOLT WOOD OR PLASTIC BLOCKOUT FINISHED SHOULDER — DIRECTION OF TRAFFIC



FRONT VIEW AT STEEL POST

FRONT VIEW AT WOOD POST



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

SECTION THRU W-BEAM RAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

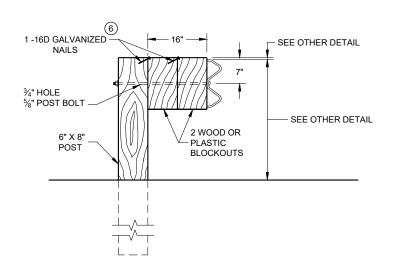
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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<u>4</u>

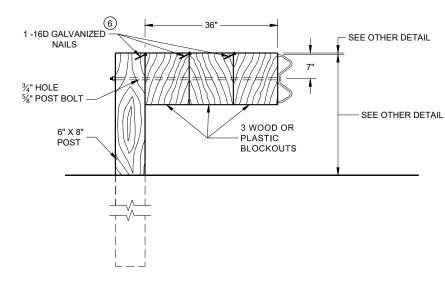
SDD

6



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



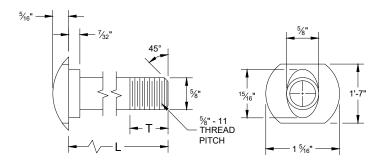
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

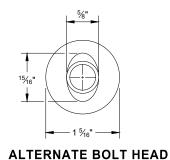
NOTE:

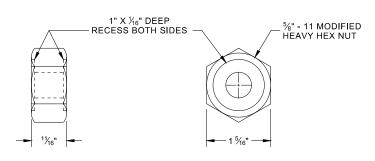
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

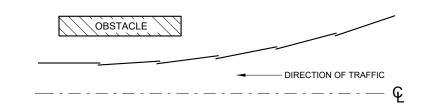
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



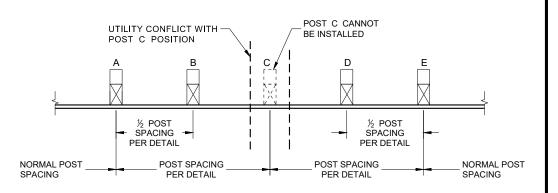


POST BOLT, SPLICE BOLT **AND RECESS NUT**

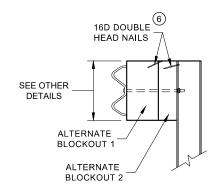
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

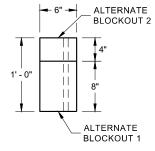


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

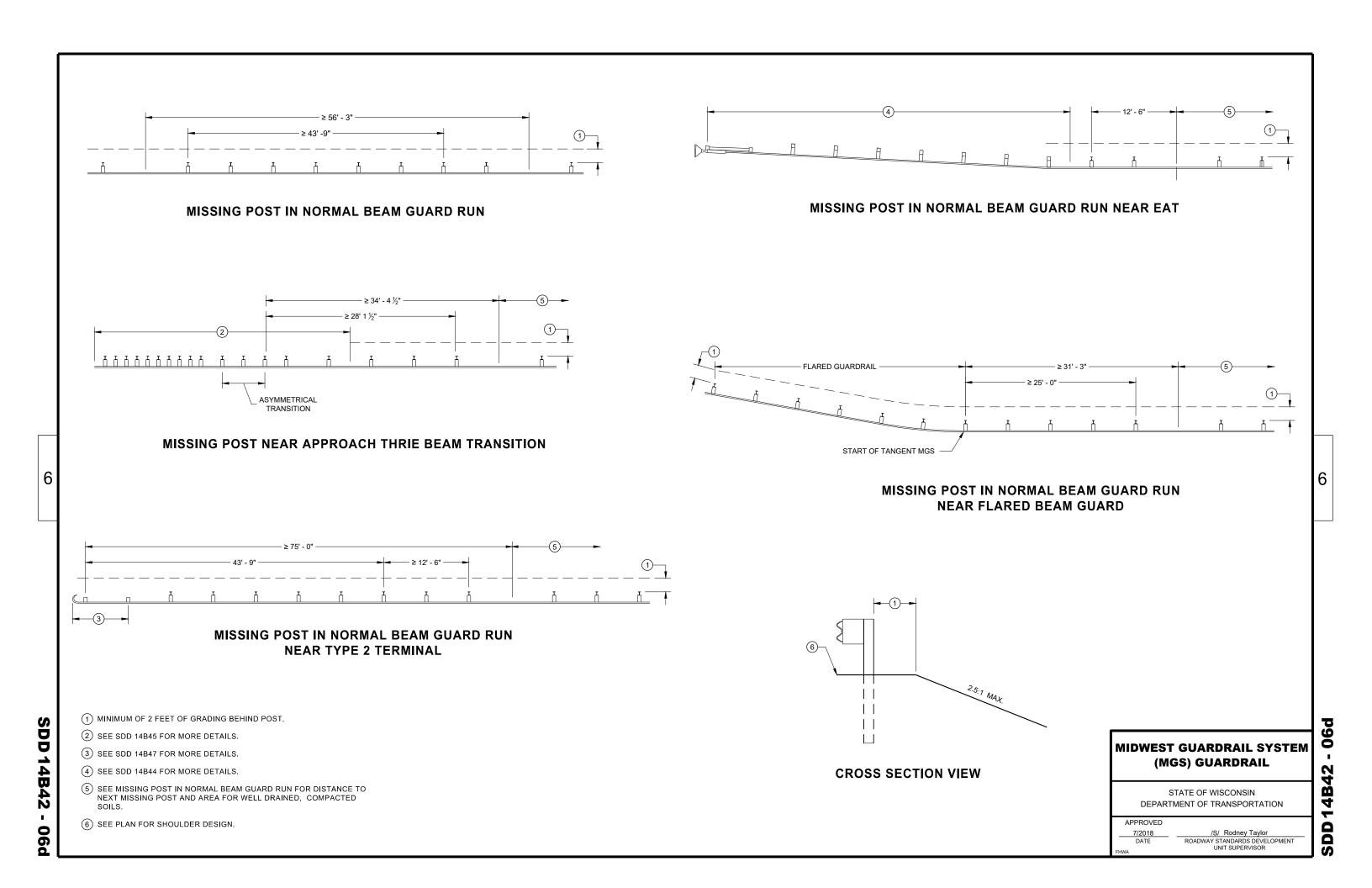
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

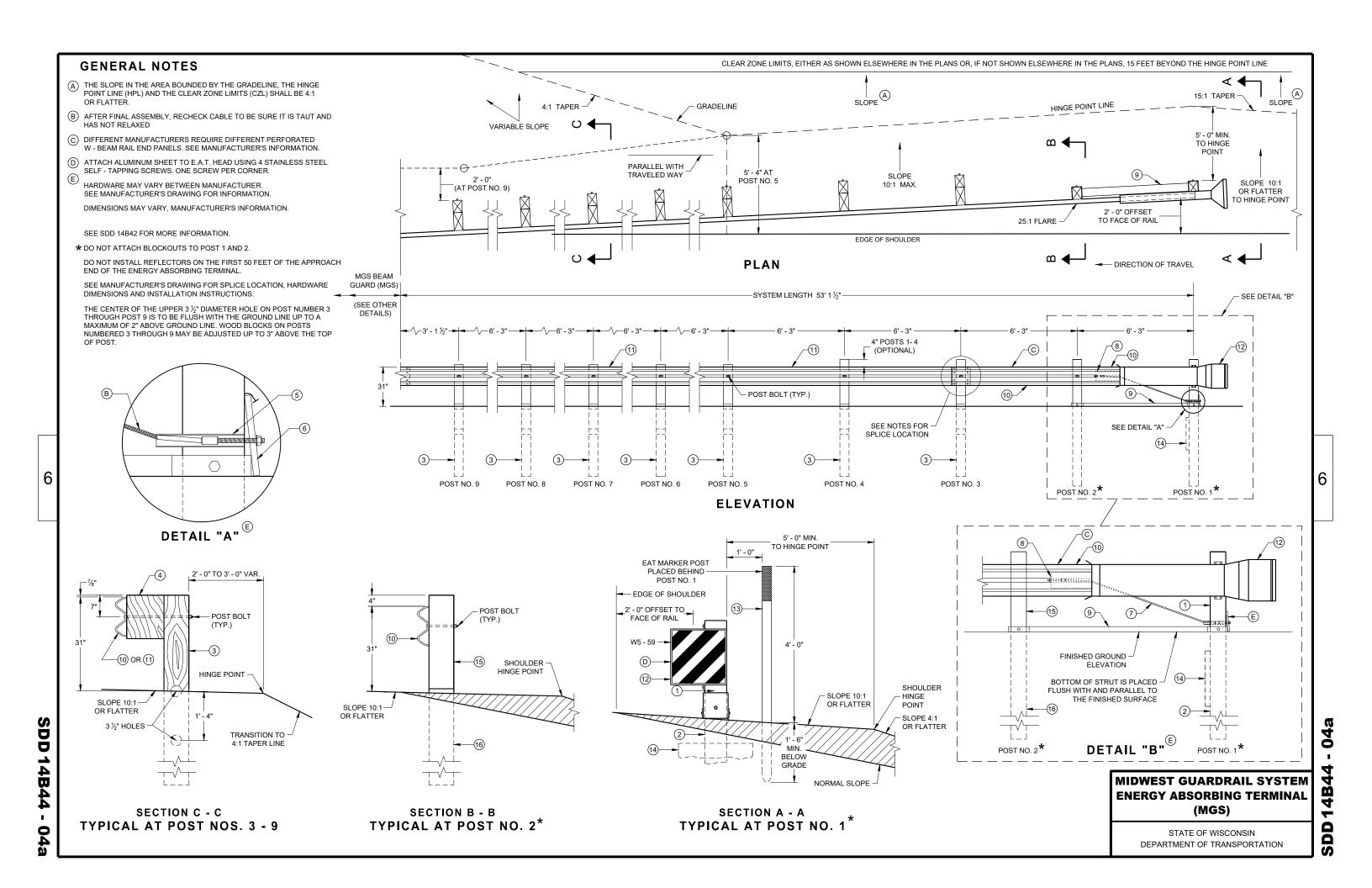
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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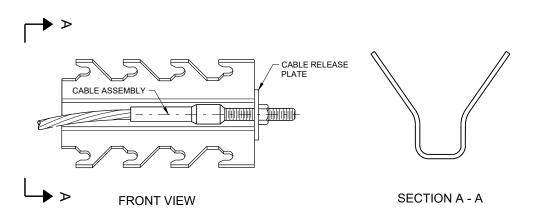
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PLAN VIEW

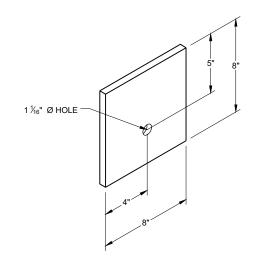




GENERIC GROUND STRUT



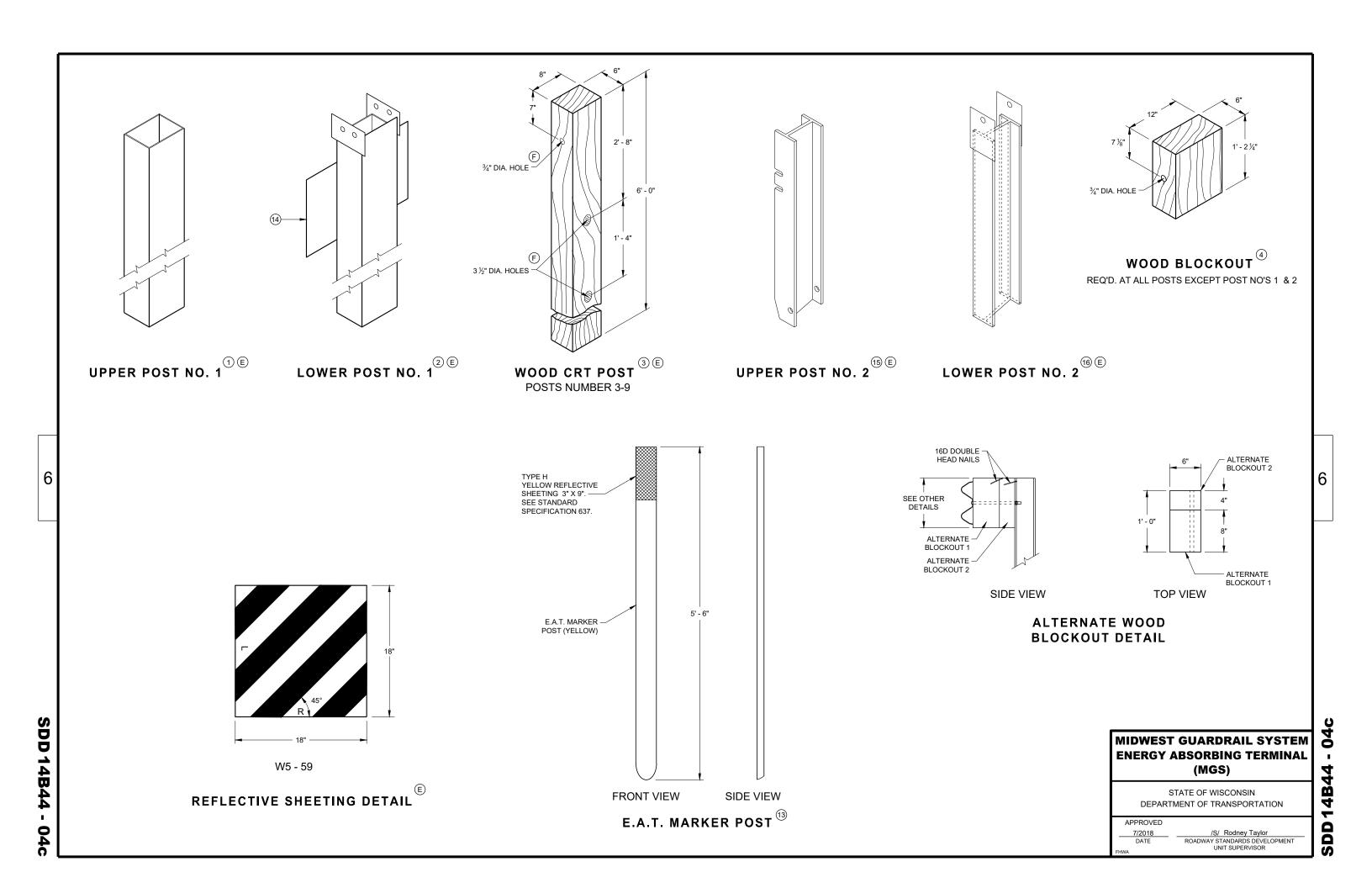
GENERIC ANCHOR CABLE BOX ^{(9) (E)}

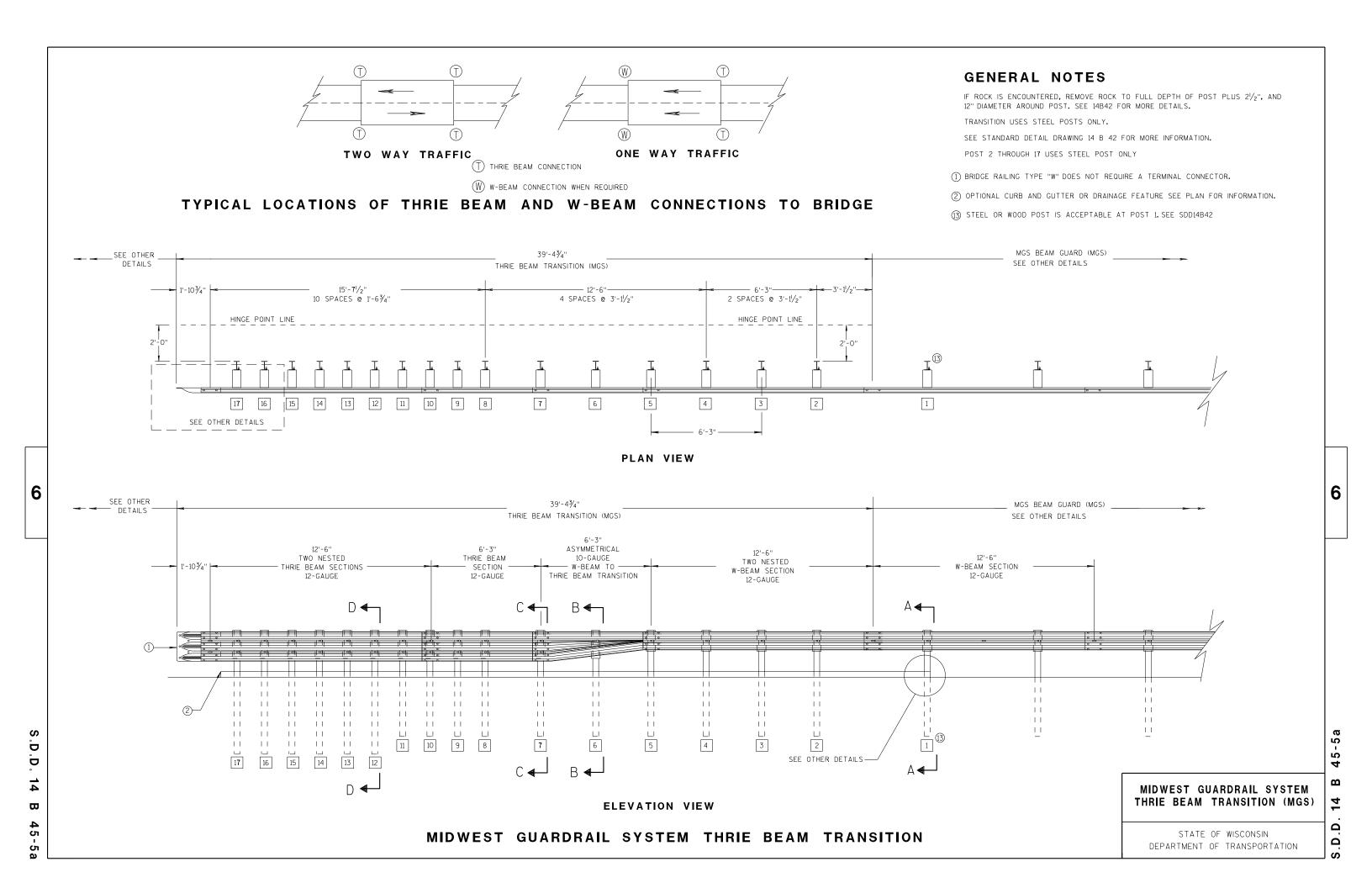


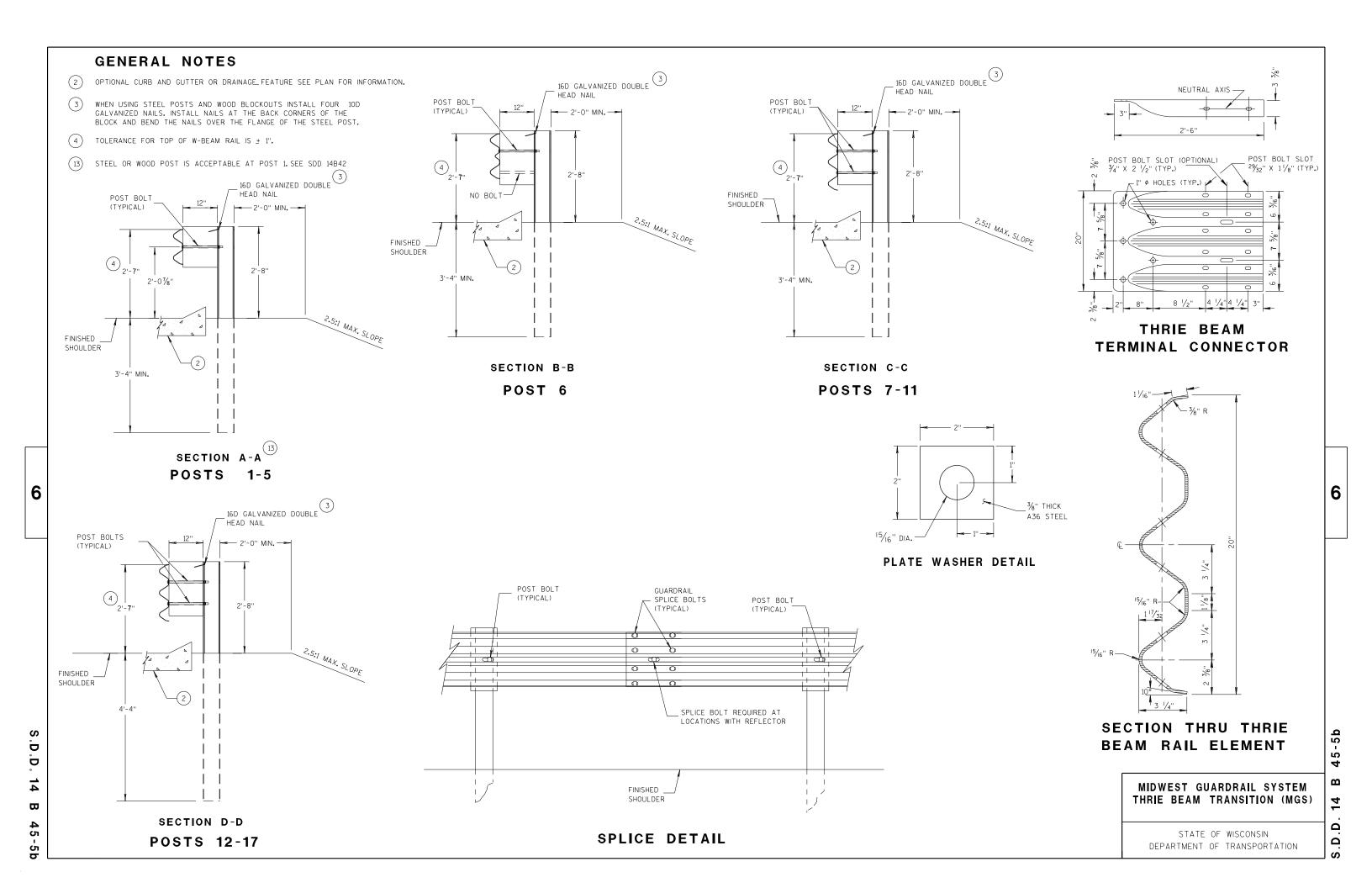
BEARING PLATE

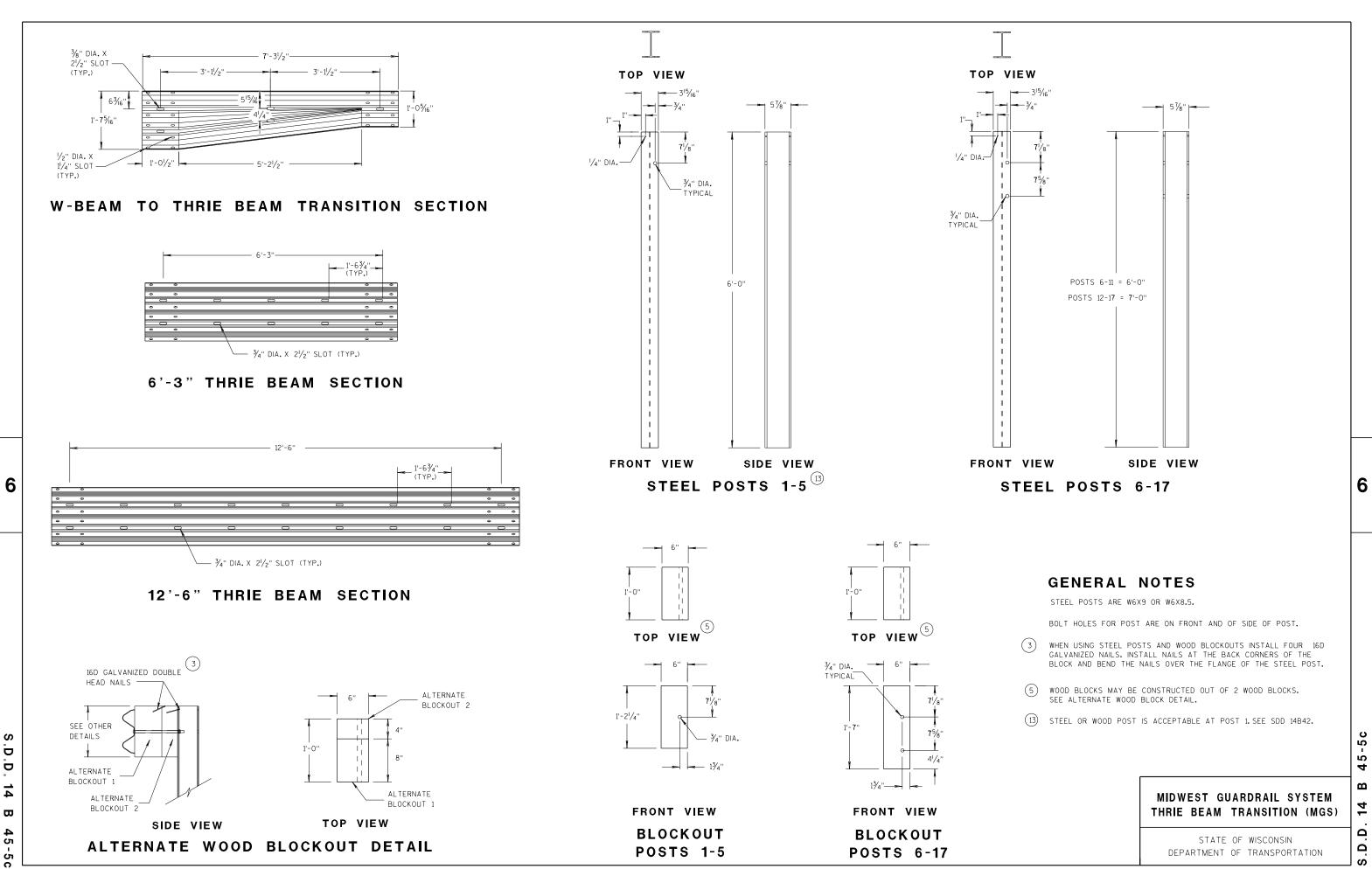
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

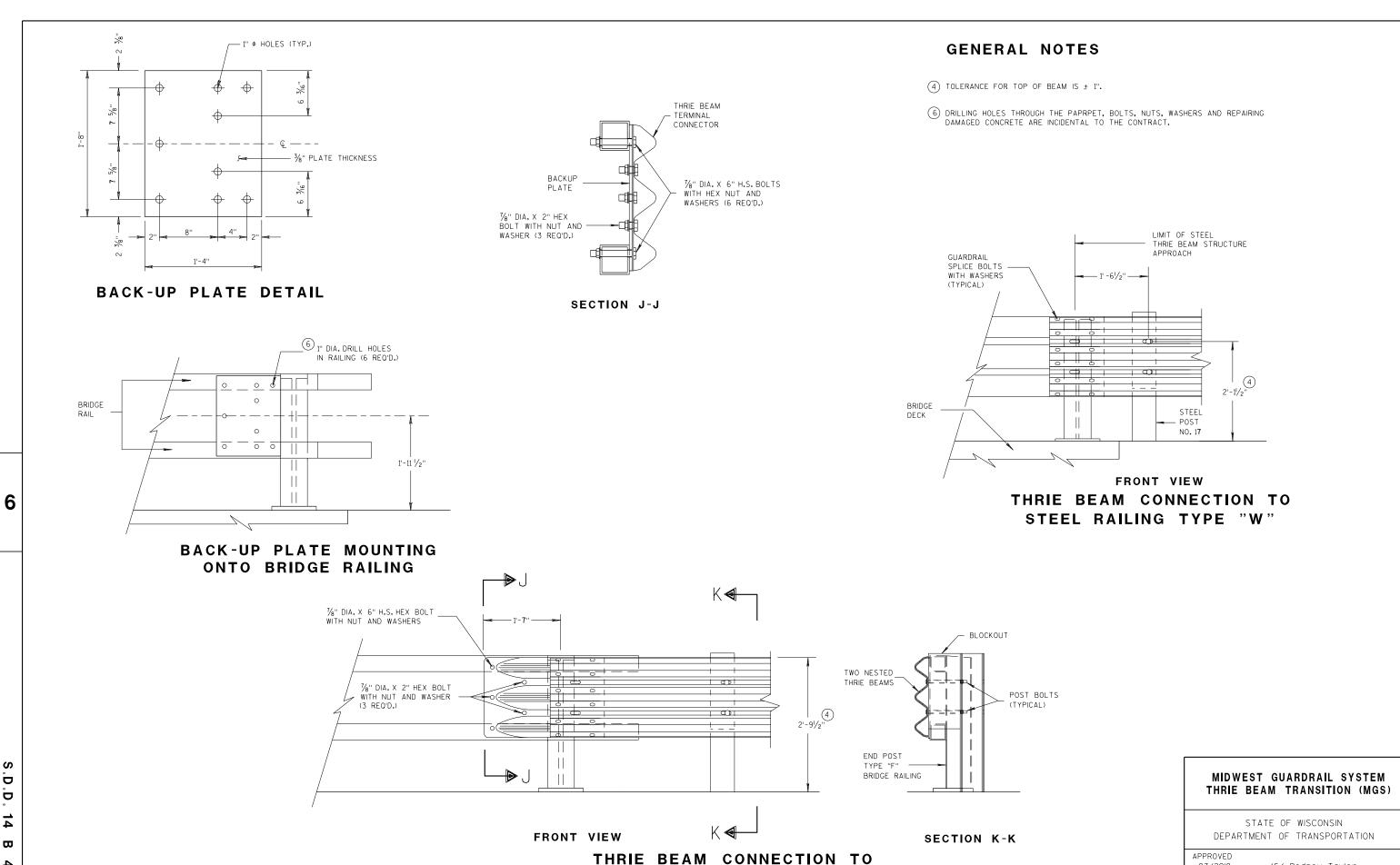
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION











TUBULAR RAILING TYPE "F"

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07/2018

DATE

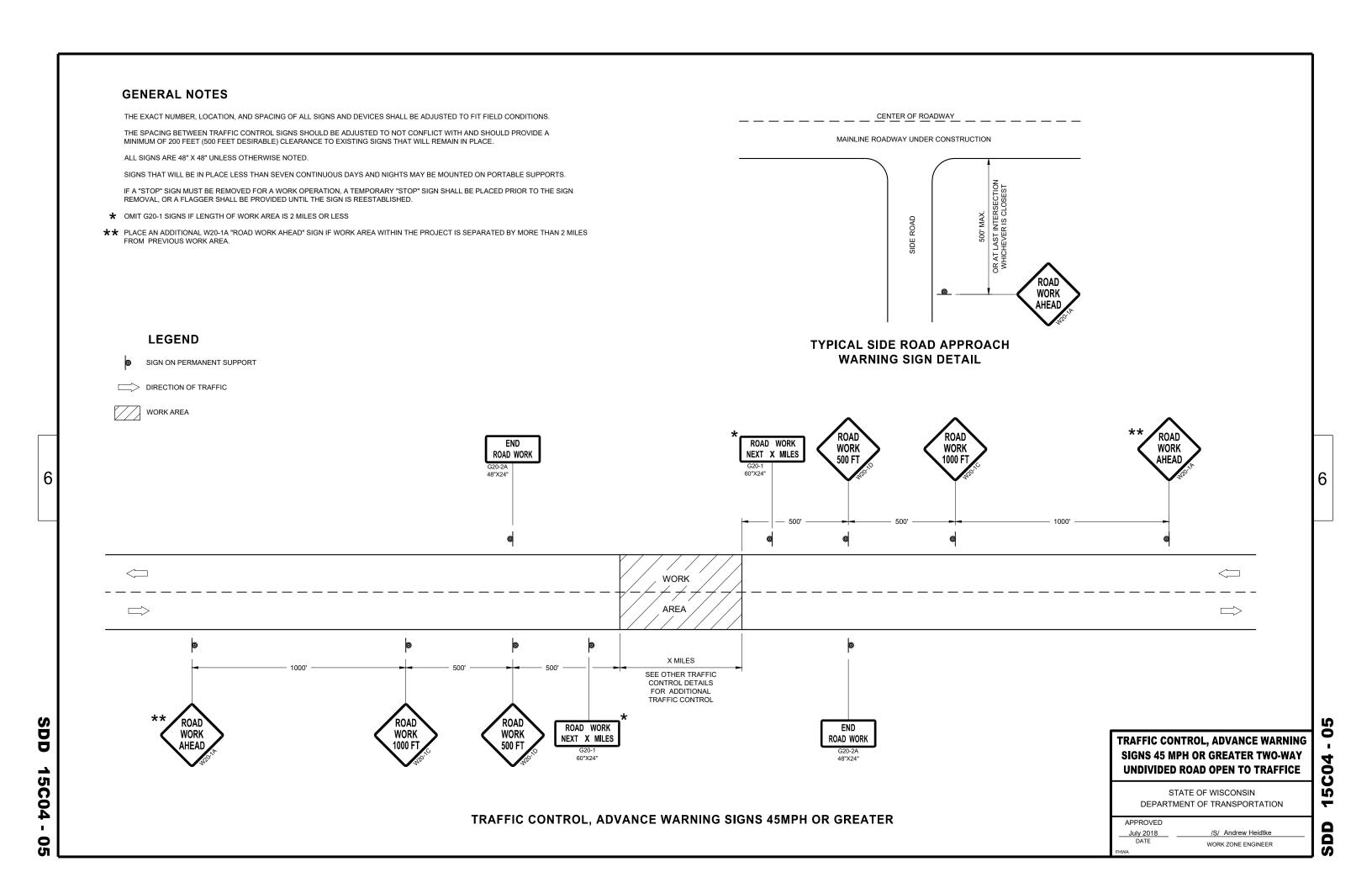
/S/ Rodney Taylor

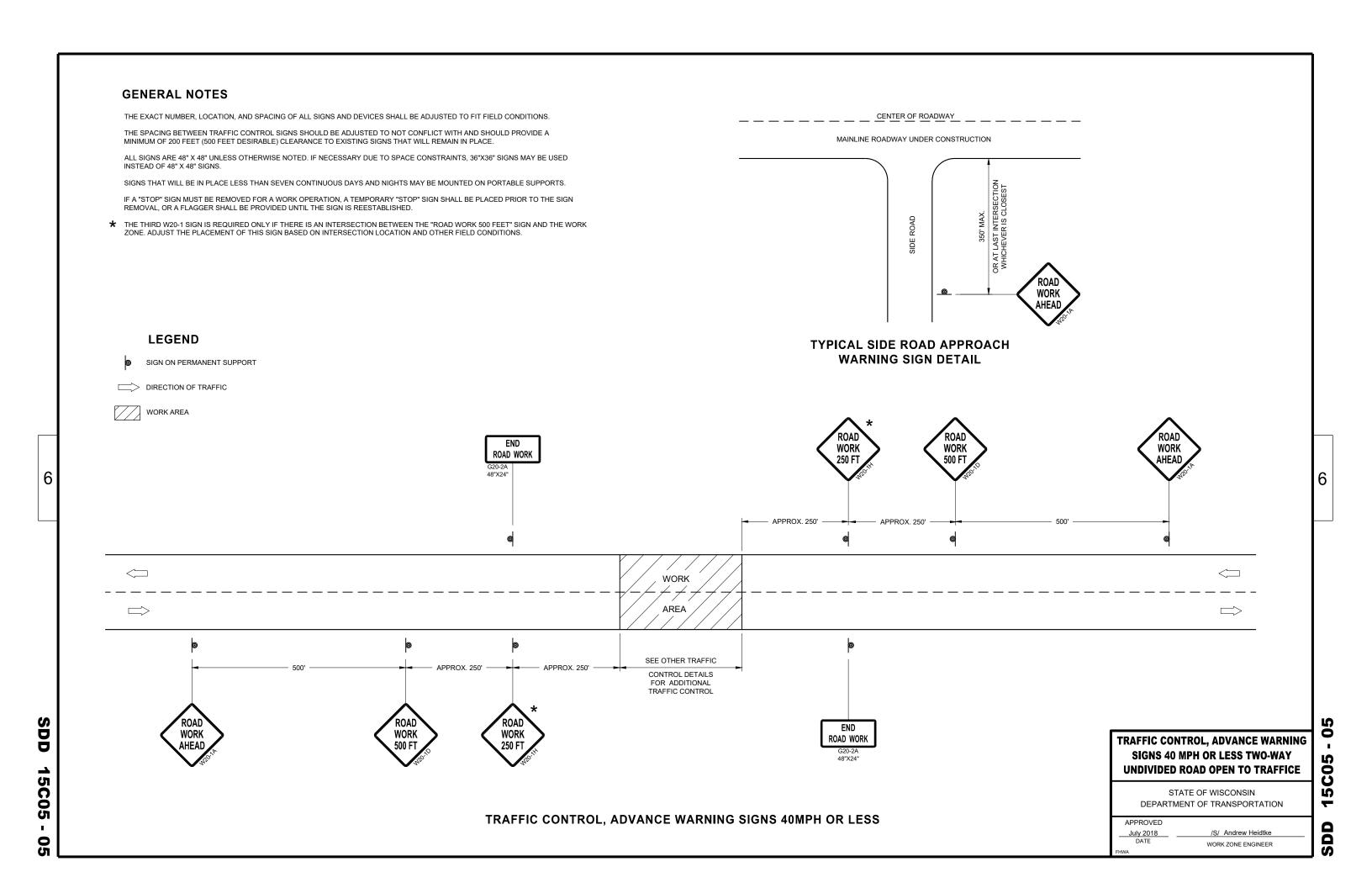
ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

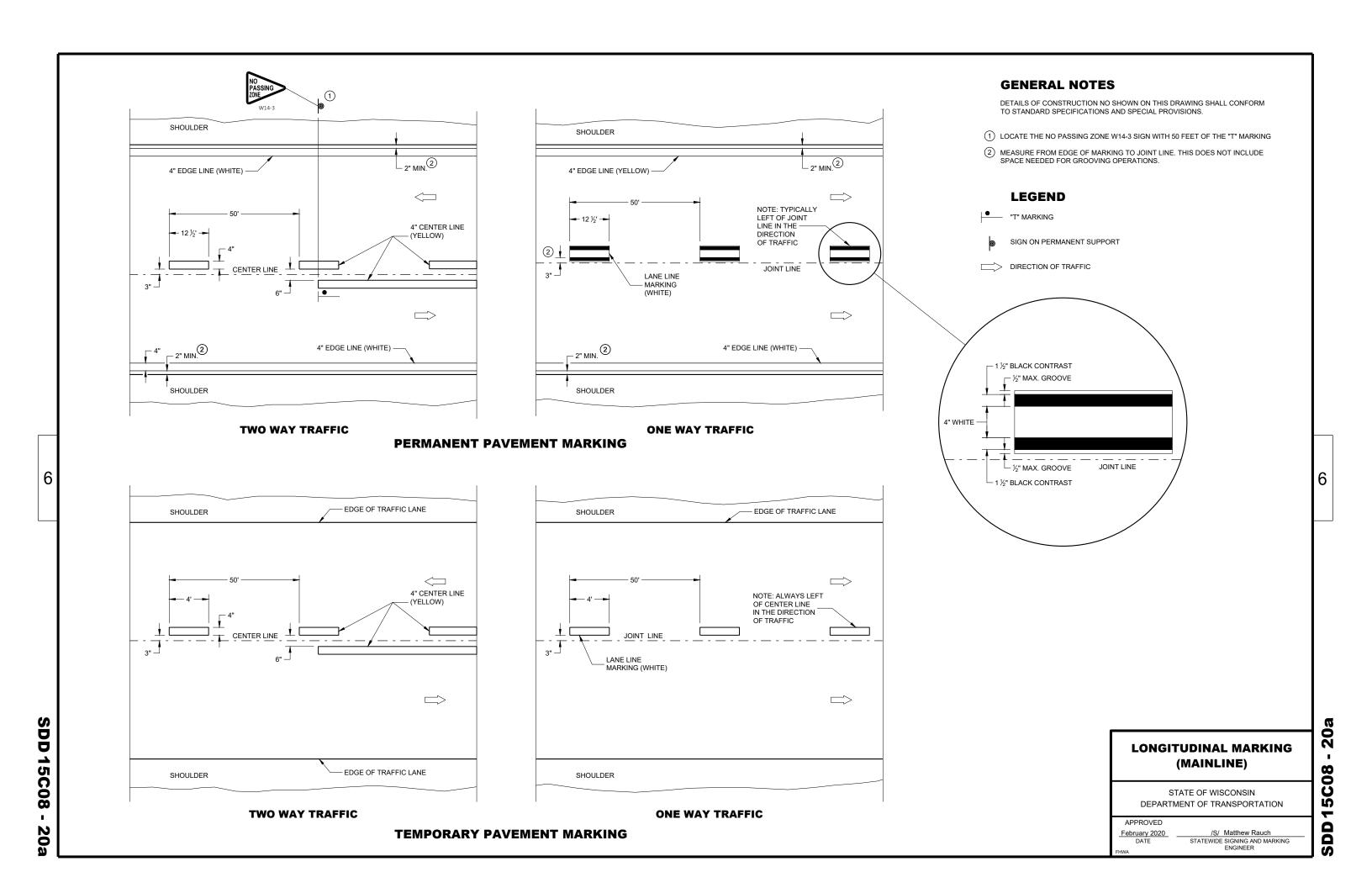








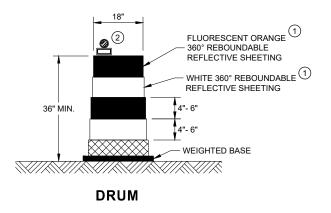


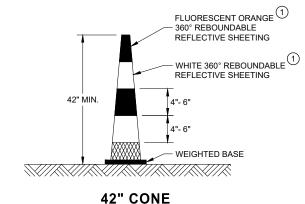


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GENERAL NOTES

- (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.



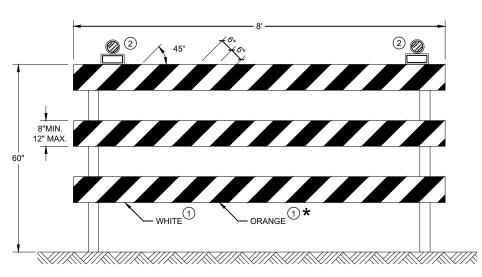


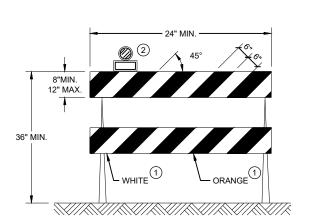


THE STRIPES SHALL SLOPE DOWNWARD TO

THE TRAFFIC SIDE FOR CHANNELIZATION.

DO NOT USE IN TAPERS ½ SPACING OF DRUMS





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

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

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SDD

LEGEND GENERAL NOTES

SIGN ON PORTABLE OR PERMANENT SUPPORT

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUELIF

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- (2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

ROAD

ŔUMBLĖ

STRIPS



RUMBLE

STRIPS

WORK

TEMPORARY PORTABLE RUMBLE

FLAGGER, EQUIPPED WITH STOP/SLOW

PADDLE FASTENED ON SUPPORT STAFF

STRIP ARRAY

WORK AREA

DIRECTION OF TRAFFIC

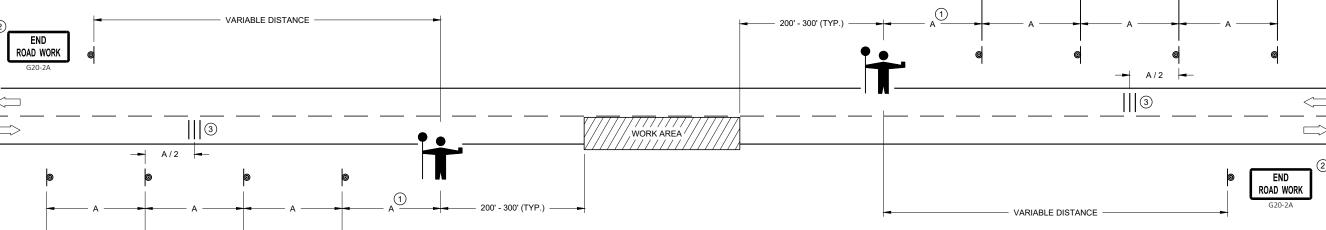
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A"



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

2

S

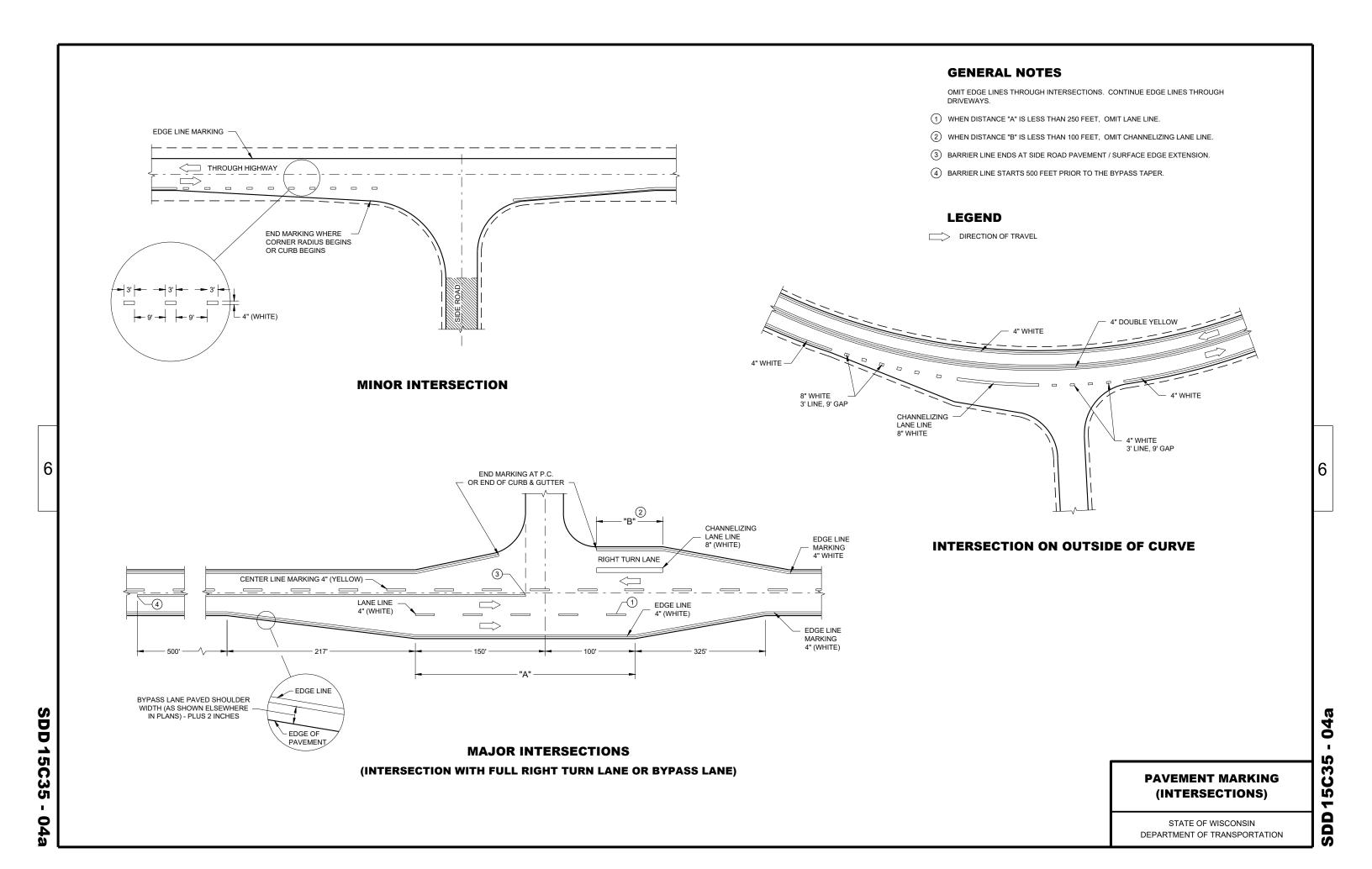
WORK

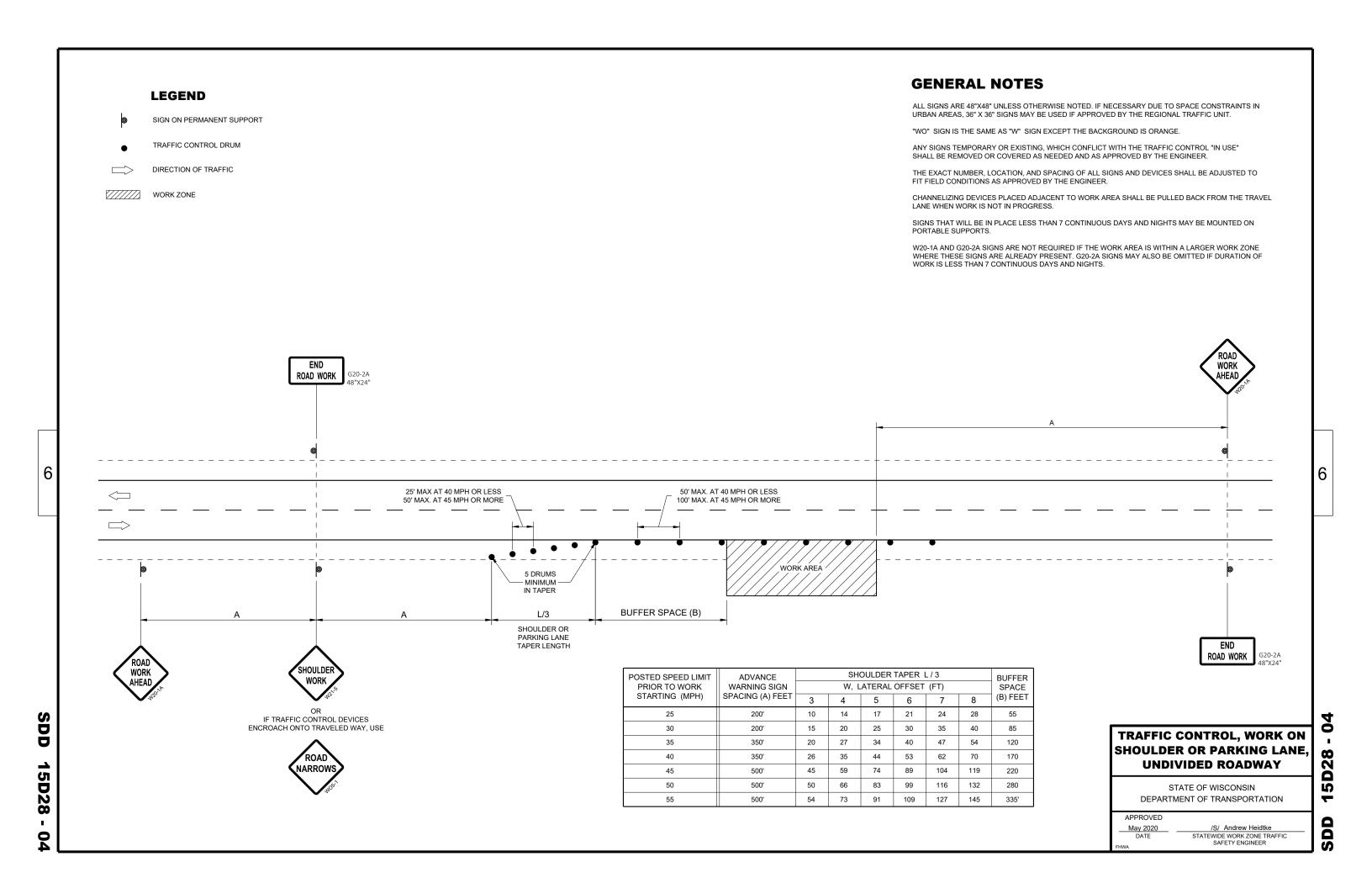
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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WORK ZONE ENGINEER







TUBULAR STEEL POSTS

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

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

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF	
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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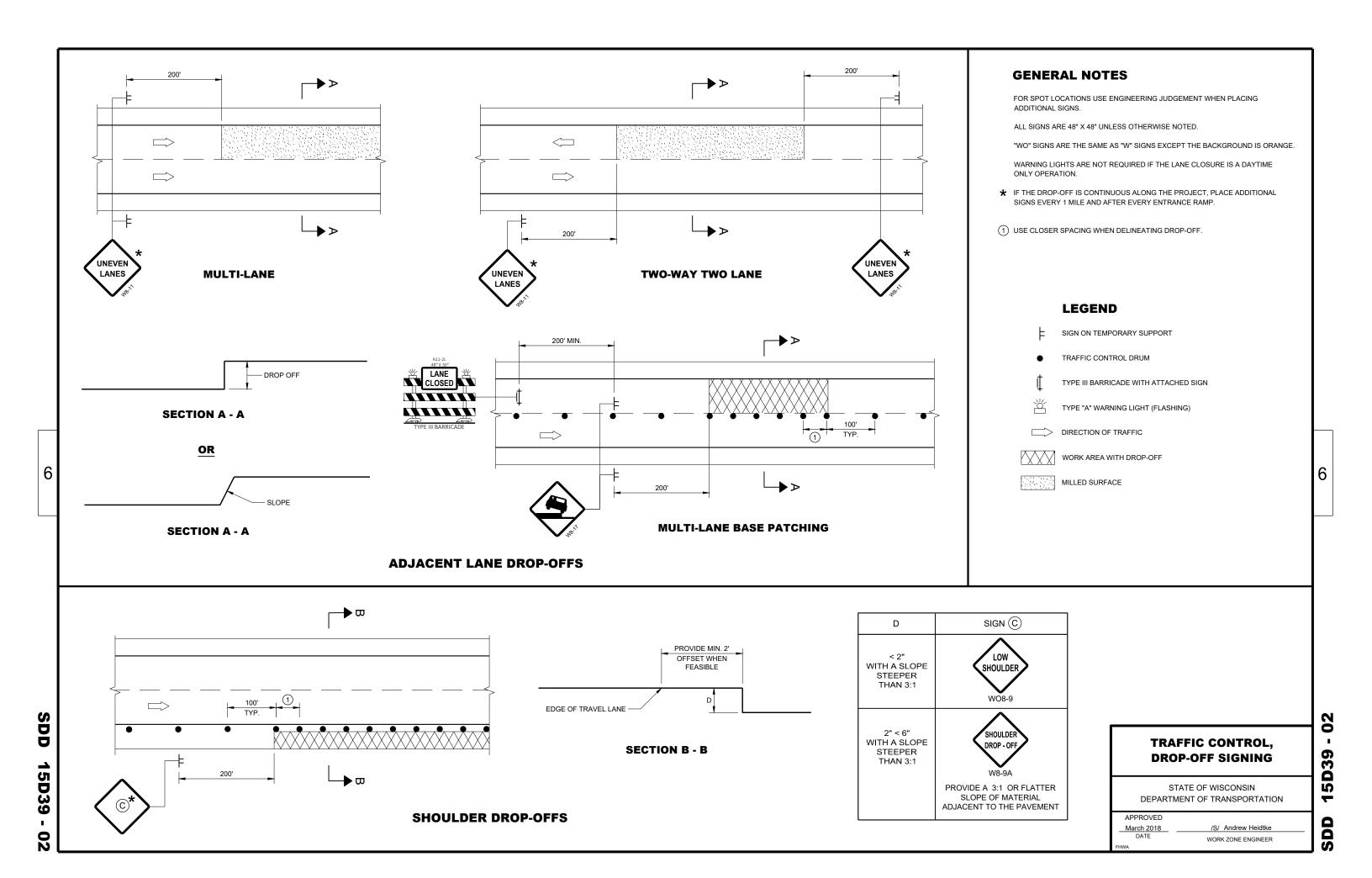
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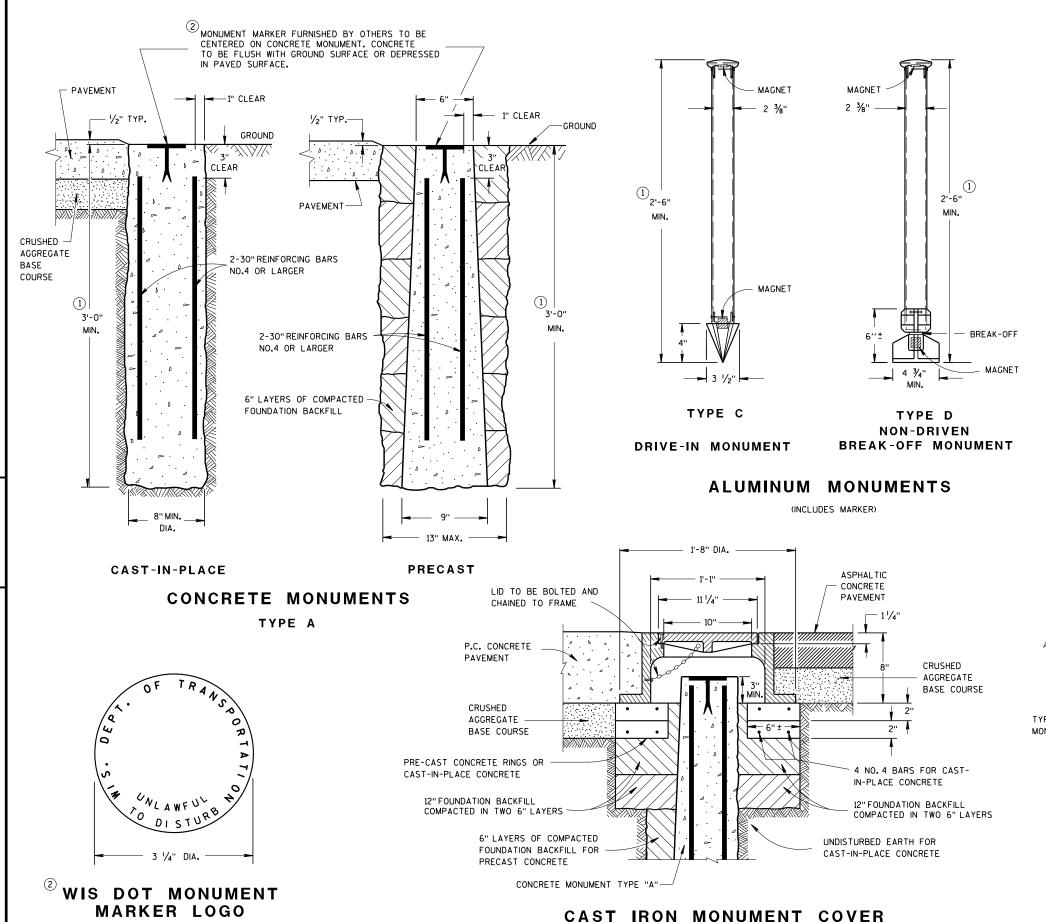
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE





(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

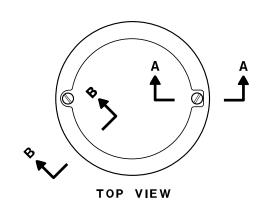
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

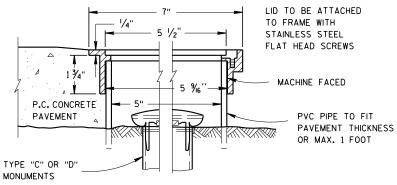
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

- (1) MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.
- (2) AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.





SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS) (FOR CONCRETE PAVEMENT ONLY)

SECTION B-B

LANDMARK REFERENCE **MONUMENTS AND COVERS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

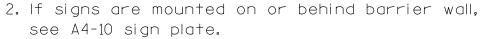
APPROVED

March 2018 DATE FHWA

/S/ Raymond A. Kumapayi CHIEF SURVEYING AND MAPPING ENGINEER

Ω

FOR TYPES "A", "C", & "D"



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). 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. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

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

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

Area of Sign
Installation
(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.

HWY:

* 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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

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

APPROVED



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

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" (±) or 6'-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) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-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" (±).
- * 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.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

E OTHER THAN DIAMOND POSTS REQUIRED) POST EMBEDMENT DEPTH

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

ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

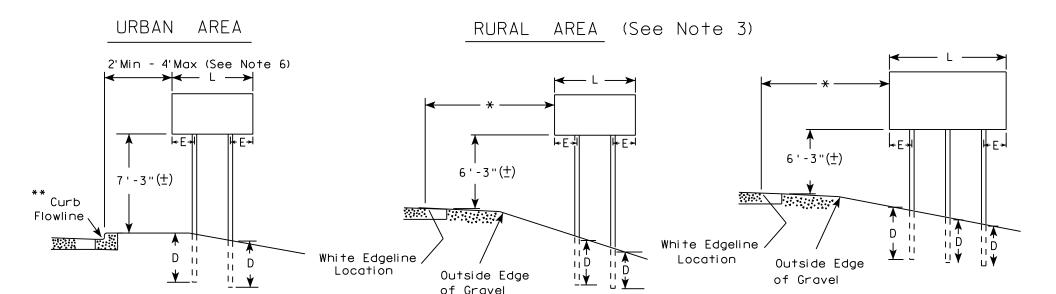
For State Traffic Engineer

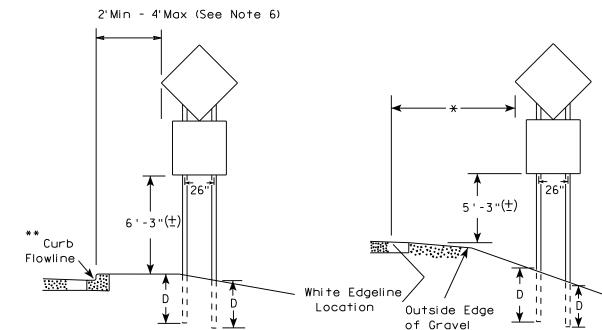
DATE 8/21/17 PLATE NO. A4-4.15

TYPICAL INSTALLATION OF TYPE II SIGNS

PLATE NO. 44-4.15

SHEET NO:





	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" †o 108"	L/5	

HWY:

48" DIAMOND WARNING SIGN

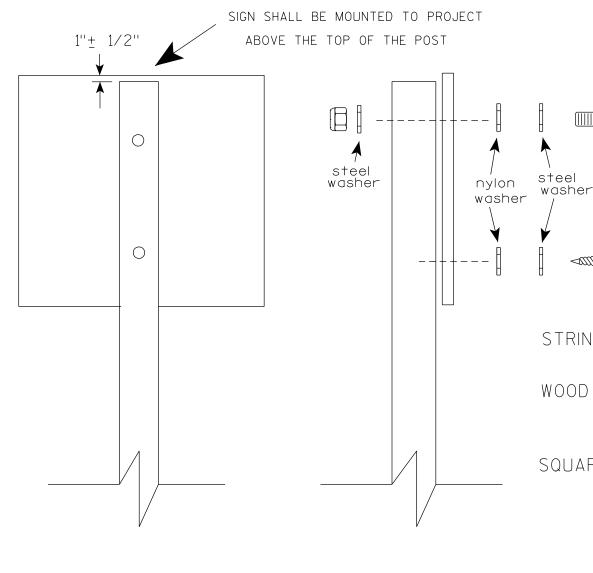
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 108" to 144"	12''	

48" DIAMOND WARNING SIGN

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:



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 - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - $\frac{1}{32}$ " (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

ROVED Matther

∱or State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

APPROVED

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

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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



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

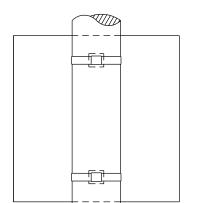
DATE 2/05/15

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

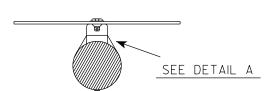
For State Traffic Engineer

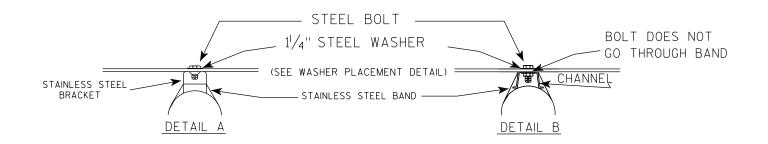


BANDING

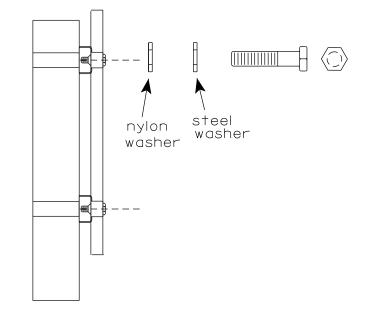


SINGLE SIGN





WASHER PLACEMENT



HWY:

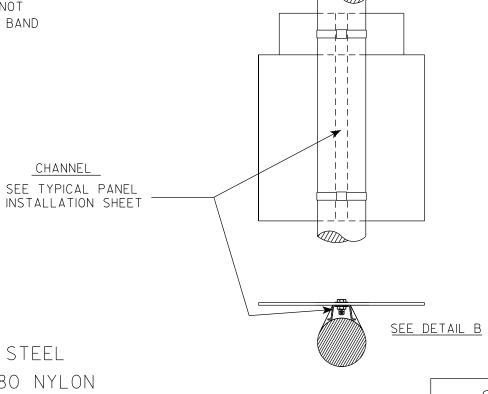
WASHERS (ALL POSTS) -

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:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

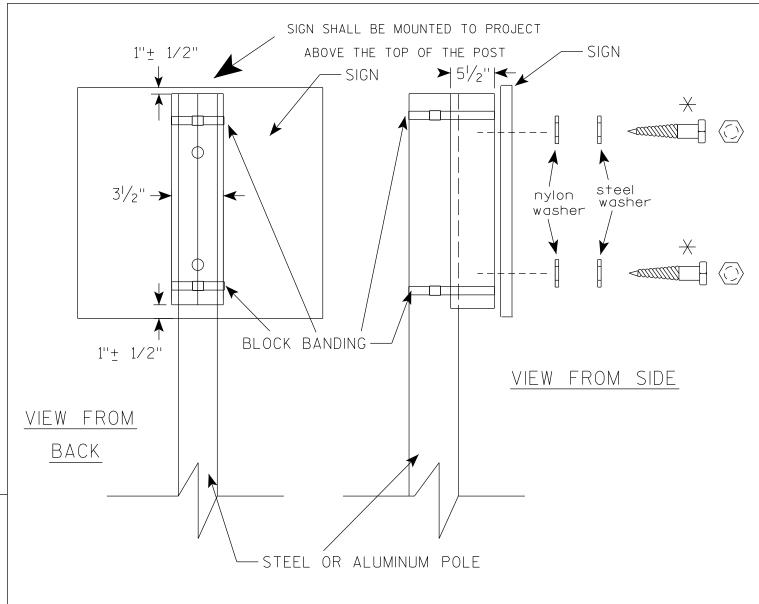
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

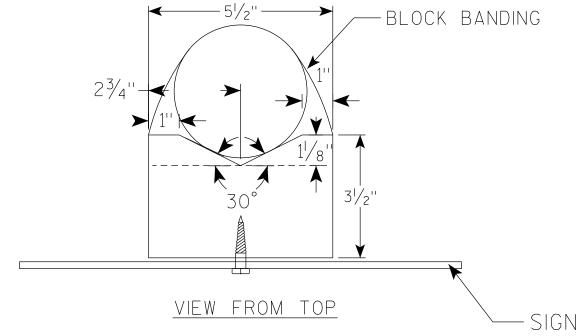
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





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 $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

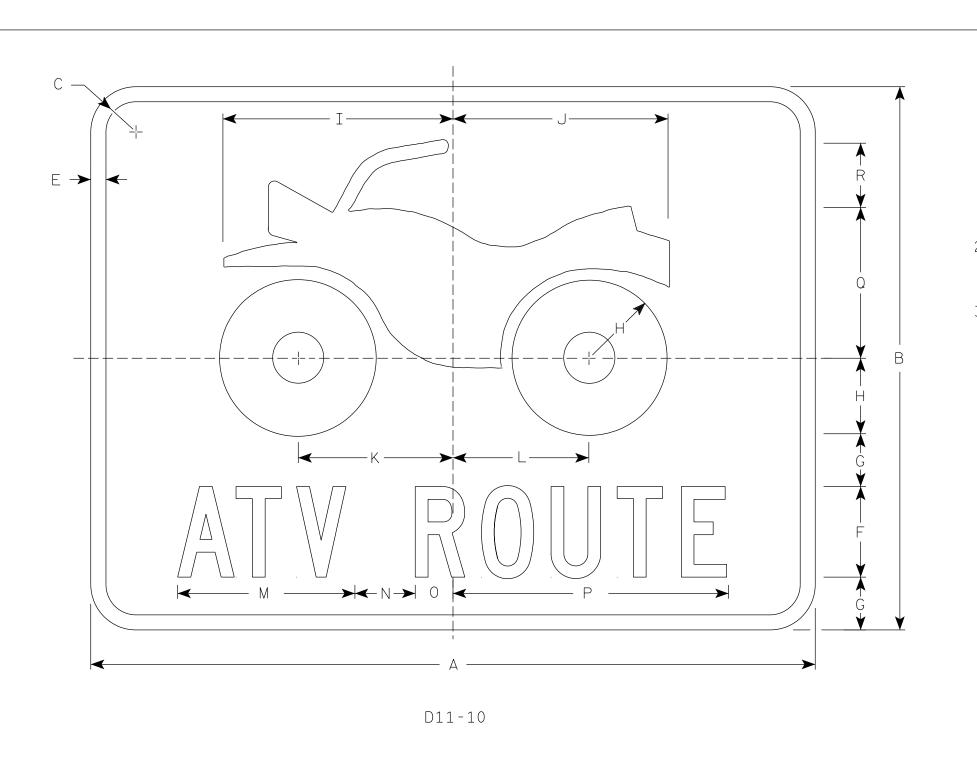
DATE 6/10/19

PLATE NO. _A5-10.2

PROJECT NO:
FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h



1. Sign is Type II - Type H Reflective

2. Color:

Background - Green Message - White

3. Message Series - C

			1			ı												T	ı			1	1				
SIZE	Α	В	С	D	E	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																											
2	24	18	1 1/8		1/2	3	1 3/4	2 1/2	7 5/8	7 1/8	5 1/8	5 1/2	5 %	2	1 1/4	9 1/8	5	2 1/8									3.0
3																											
4																											
5																											

STANDARD SIGN D11-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe

For State Traffic Engineer
DATE 3/25/19 PLATE NO. D11-10.5

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\D1110.DGN

PROJECT NO:

PLOT DATE: 25-MAR-2019

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

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

Background - Orange 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. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

C —		.
D-> = = = = = = = = = = = = = = = = = = =		TH
	NEXT O MILES	
•	A —	<u> </u>
	G20-1	

SI	ZΕ	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
2		60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 ¾	18 ½	3		16	18 %												10
3																												
		60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 ¾	18 1/2	3		16	18 %												10
)												·	·		·		·					·				·	

COUNTY:

STANDARD SIGN G20-1

Fer State Traffic Engineer
DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G201.DGN HWY:

PLOT DATE: 14-MAR-2017 13:28

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

PLOT SCALE: 6.889165:1.000000

WISDOT/CADDS SHEET 42

SHEET NO:

WISCONSIN DEPT OF TRANSPORTATION APPROVED Matthew & Rauch

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

2. Color:

Background - Orange 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.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

AP

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

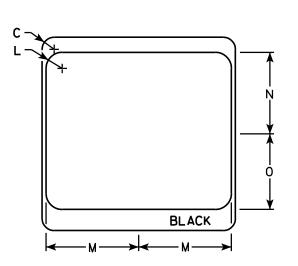
Background - White & Black - See Note 7 Message - Black

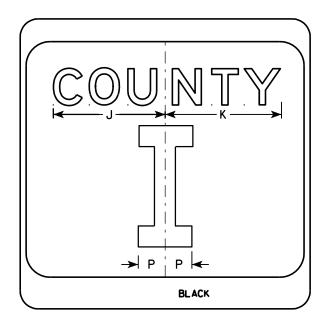
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

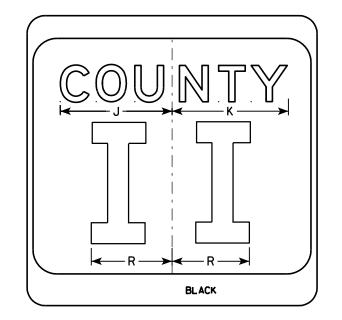
 Message Series D for 2 letters unless
 message is too big then Series C.

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

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	٦	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	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 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
PRO	IFCT	NO:	·		·	·	Luv	VY:		·	·		COUN	TV•		·				·	·		·				

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch

Forstate Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

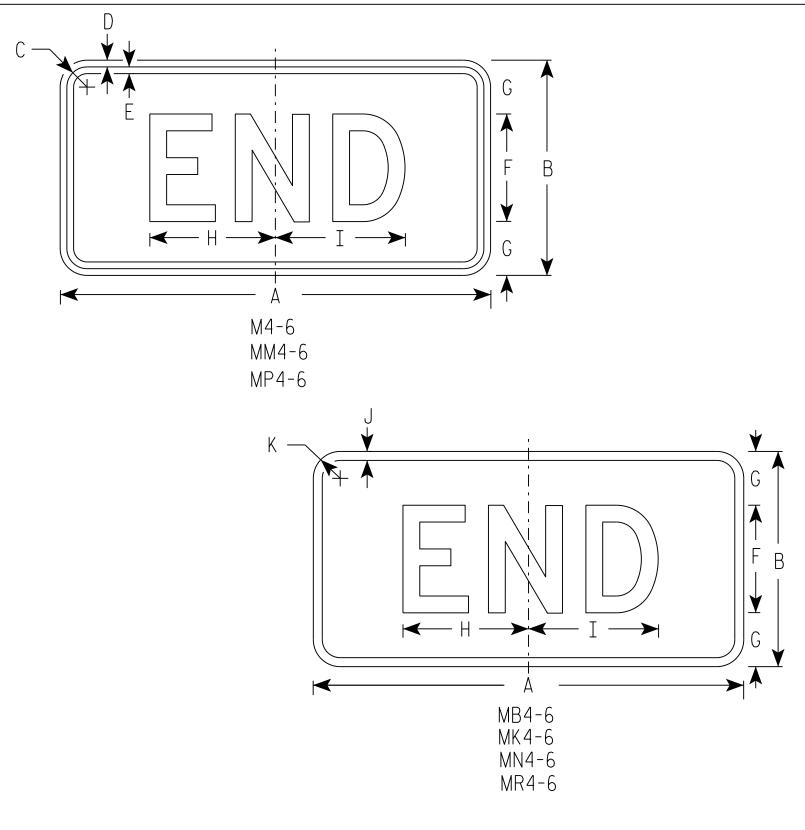
SHEET NO:

BLACK

M1-5A

PLOT NAME :

PLOT SCALE: 5.959043:1.000000



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

Background - See note 5 Message - See note 5

- 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.
- 5. M4-6 Background White

Message - Black

MB4-6 Background - Blue

Message - White

MK4-6 Background - Green

Message - White

MM4-6 Background - White

Message - Green

MN4-6 Background - Brown

Message - White

MP4-6 Background - White

Message - Blue

MR4-6 Background - Brown

Message - Yellow

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	٥	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5

STANDARD SIGN M4 - 6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Kaus For State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-7.9

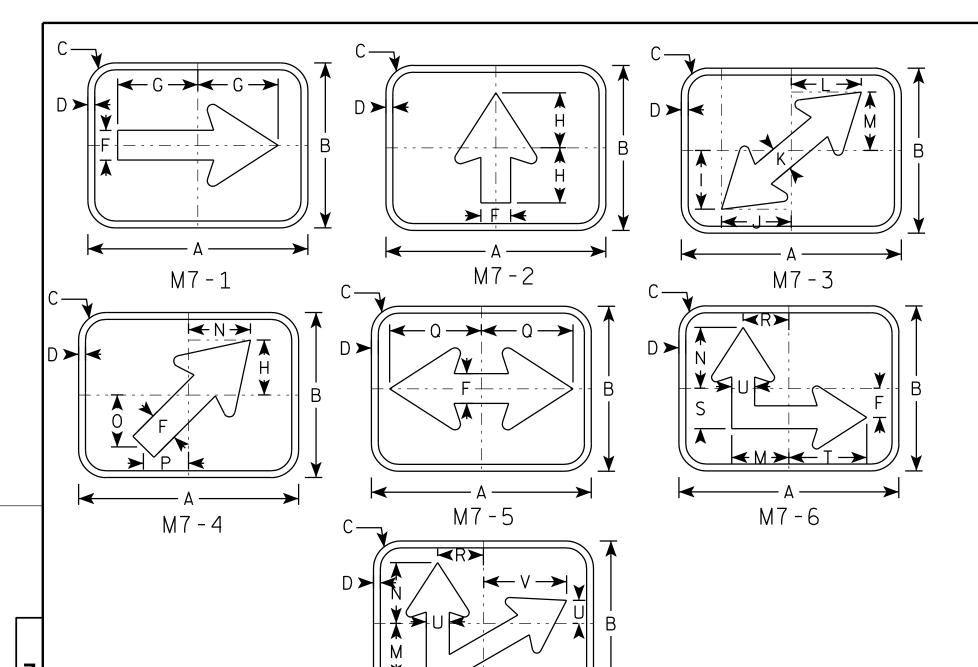
SHEET NO:

FILE NAME . C.\CAFfiles\Projects\tr stdblote\M46 DCN

PLOT DATE . 01-DEC-2015 17.55

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 5 351066.1 000000



M7 - 7

HWY:

NOTES

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

Background - Green Message -White

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.

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	12	9	11/2	3/8		1 5/8	4 3/8	3	3 1/4	3 3/4	1 3/8	3 %	3 1/8	3 %	2 1/8	2 1/2	5	2 1/2	2 1/4	4 1/4	1 1/4	4 1/2					.75
3																											
4																											
5																											

COUNTY:

STANDARD SIGN M7 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVE

DATE 05/04/10 PLATE NO. M7-1.1

SHEET NO:

PLOT DATE: 28-MAY-2010 08:14

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.237442:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:



- 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

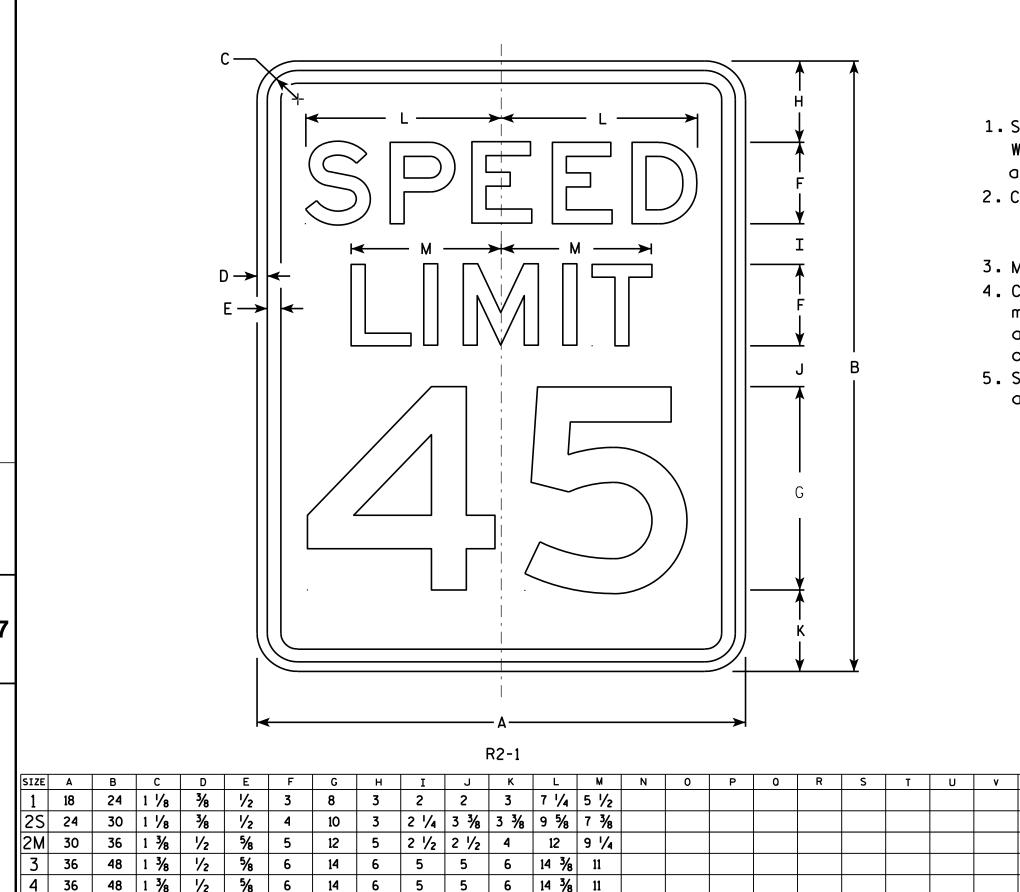
HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

PLOT SCALE: 4.427909:1.000000



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

- 3. Message Series E
- 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 and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matther R Raus For State Traffic Engineer PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

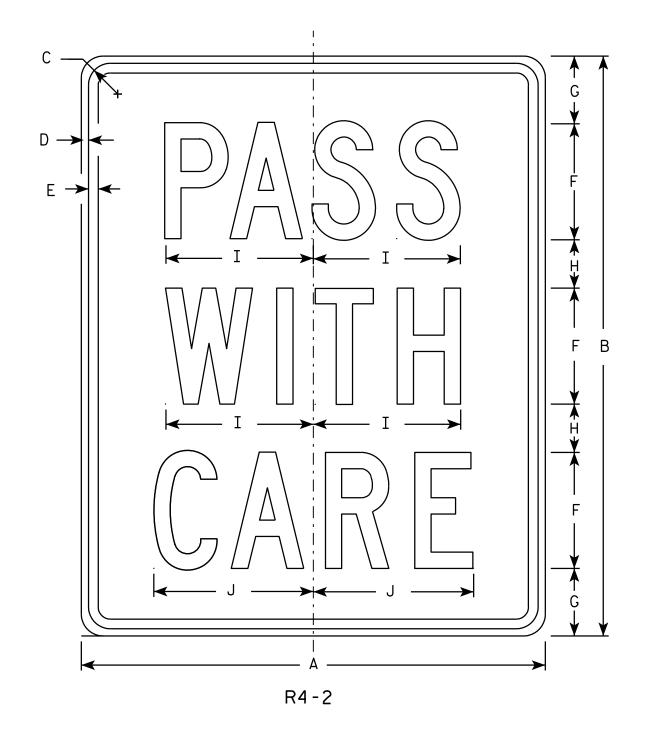
60

5

48

PROJECT NO:

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 - 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.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3∕8	1/2	5	2 3/4	1 3/4	6 %	6 %																	3.0
2S	24	30	1 1/8	3∕8	1/2	6	3 1/2	2 1/2	7 5/8	8 1/4																	5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	7 5/8	8 1/4																	5.0
3	36	48	1 3/8	1/2	5/8	10	5 ½	3 1/2	12 3/4	13 ¾																	12.0
4																											
5																											

COUNTY:

STANDARD SIGN R4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/25/2011

PLATE NO. R4-2.6 SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R42.DGN

PROJECT NO:

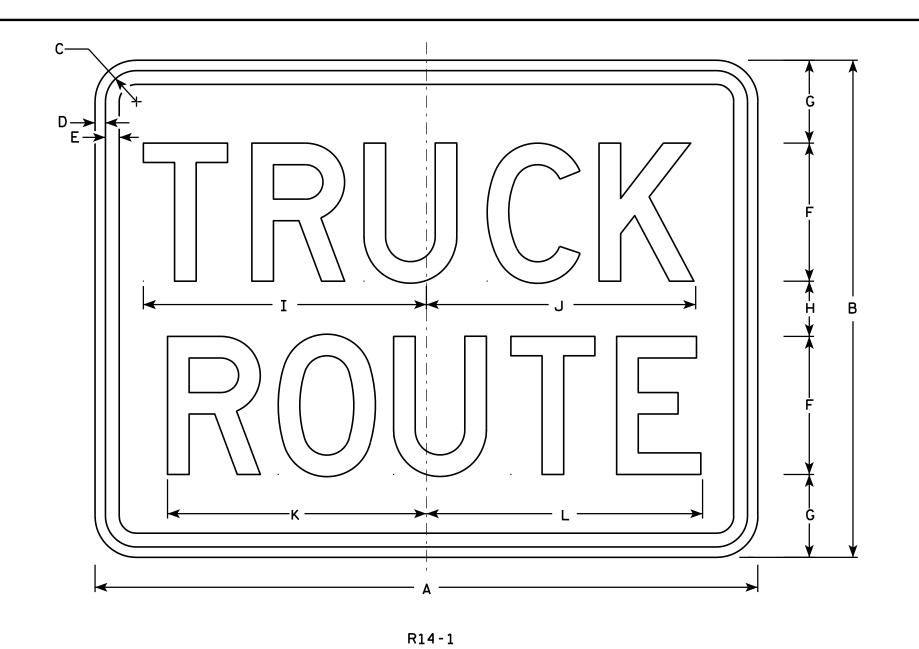
HWY:

PLOT DATE: 25-MAR-2011 13:30

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 4.965871:1.000000



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

Background - White 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.

10 1/4 9 3/4 9 3/8 1 1/8 3/8 1/2 24 18 5 3 2 3.0 10 1/4 9 3/4 9 3/8 24 1 1/8 3/8 1/2 3.0 18 3 24 | 1 1/8 3/8 1/2 12 1/4 11 3/4 11 1/4 30 5.0 4 5

COUNTY:

STANDARD SIGN R14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 4/1/11

PLATE NO. R14-1.6 SHEET NO:

PLOT DATE: 01-APR-2011 12:07 PLOT NAME : PLOT BY: mscj9h

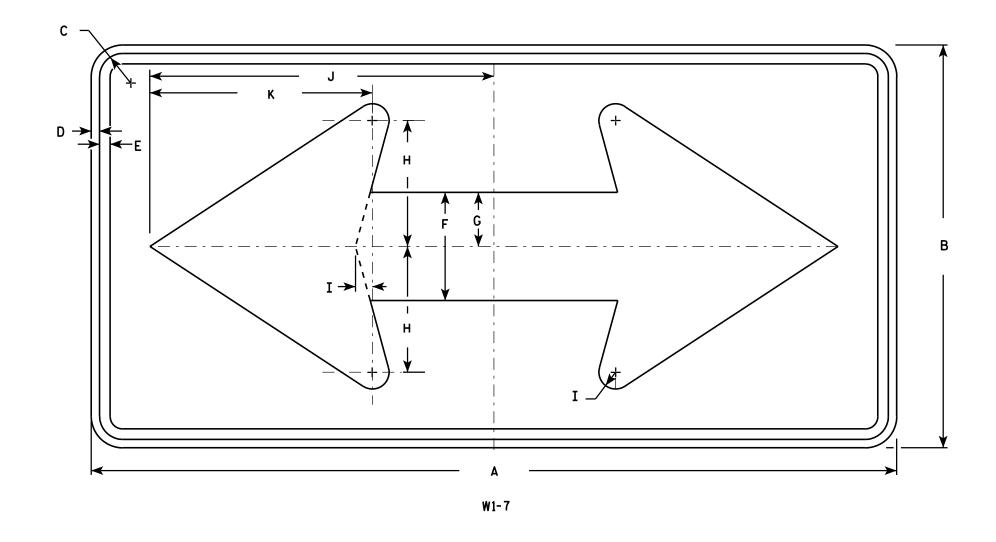
PROJECT NO:

HWY:

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

Background - Yellow Message - Black

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.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1	36	18	1 1/8	3⁄8	1/2	5	2 1/2	5 ¾	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/3	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W17.DGN

PROJECT NO:

HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

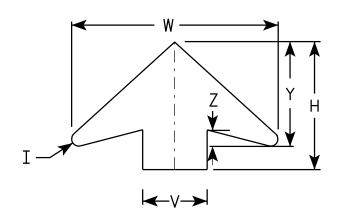
PLOT SCALE: 5.720679:1.000000

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

 Background YELLOW*

 Message BLACK
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft
1																											
25	36		1 1/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	1 /8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3∕8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7 ⁄8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch.

DATE 5/29/12 PLATE NO. W3-5.5

SHEET NO:

PROJECT NO:



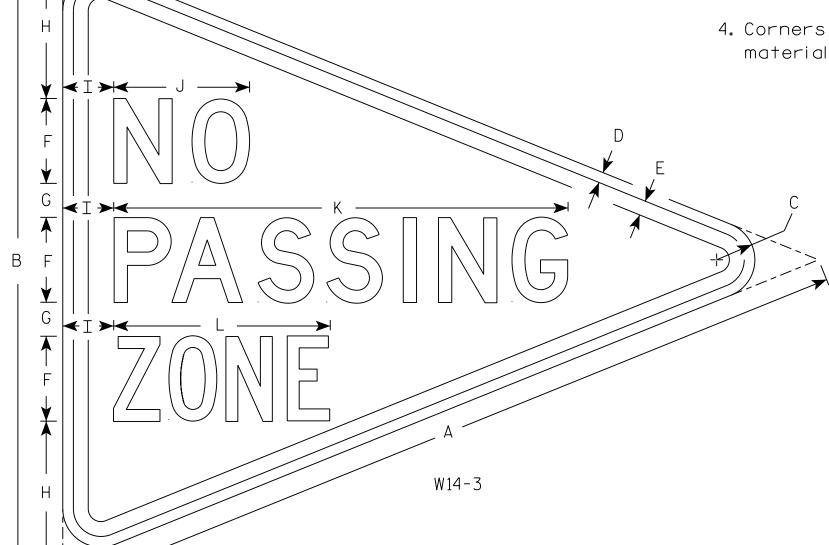
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Message – Black

3. Message Series - Lines 1 and 2 are Series D. Line 3 is series C.

4. Corners and borders shall be rounded on all base materials for this sign.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	<i>7</i> ⁄8	5	2	8 ½	3	8	26 ¾	12 3/4															5 . 56
2M																											
3																											
4																											
5																											
PROJECT NO:						Н	HWY:						COUNTY:														

STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

500 3/21/17

E 3/21/17 PLATE NO. W14-3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W143.DGN

PLOT DATE: 21-MAR-2017 08:48

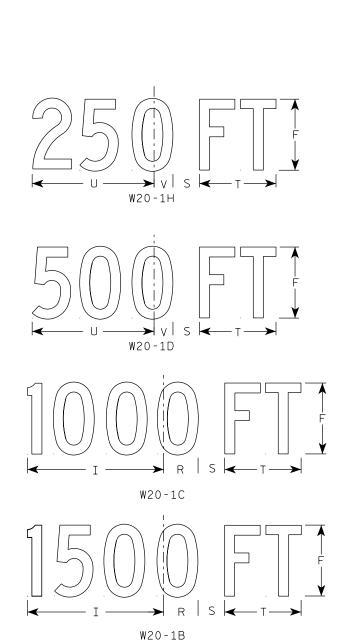
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

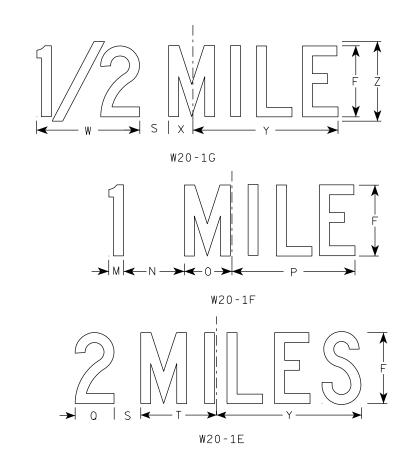
PLOT SCALE : 5.650195:1.000000

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

Background – Orange 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.





SIZE	А	В	С	D	E	F	G	H I	J	K	_ M	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4 10 1/8	7	7 % 8	7/8 1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	3/8 1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8 15 3/8	11 1/8	12 1/8 14	³ / ₈ 1 ⁵ / ₈	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch

 f_{or} State Traffic Engineer DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN

PROJECT NO:

W20-1A

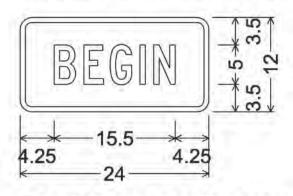
PLOT DATE: 25-MARCH-2020

PLOT BY : dotc4c

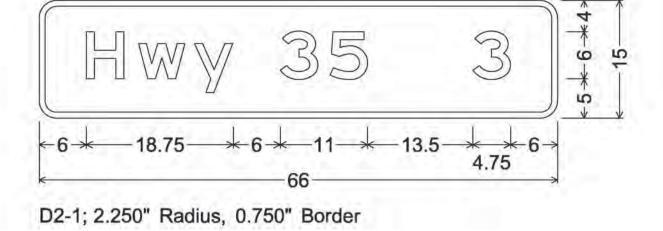
- 1. All Signs Type II Type H Reflective
- 2. Color:

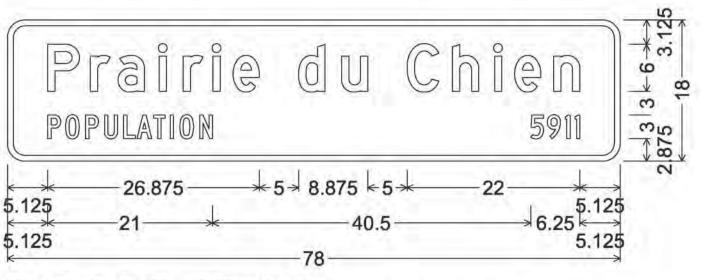
Background - Green Message - White

3. Message Series - E except as noted.

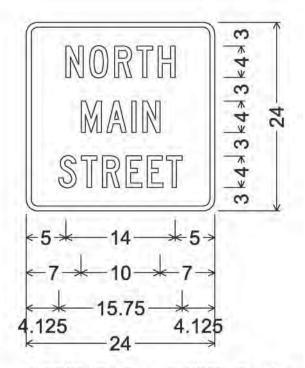


1.500" Radius, 0.625" Border "BEGIN", C;





12-3; 2.250" Radius, 0.750" Border "Prairie", D; "du", D; "Chien", D; "POPULATION", C; "5911", C;



1.500" Radius, 0.625" Border "NORTH", C; "MAIN", C; "STREET", C;

PROJECT NO: 5495-00-70

HWY: CTH K

COUNTY: CRAWFORD

PERMANENT SIGNING

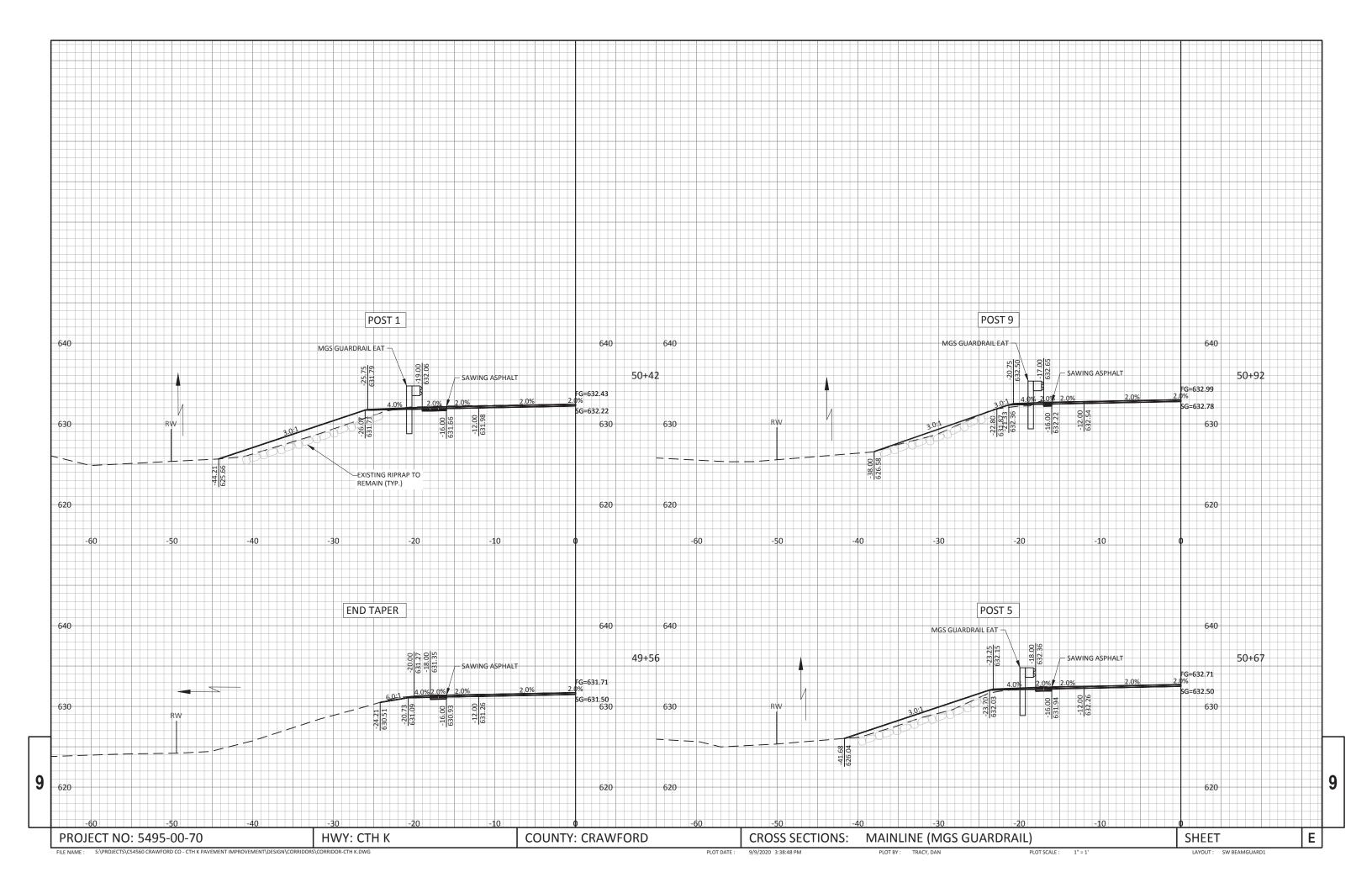
SHEET NO:

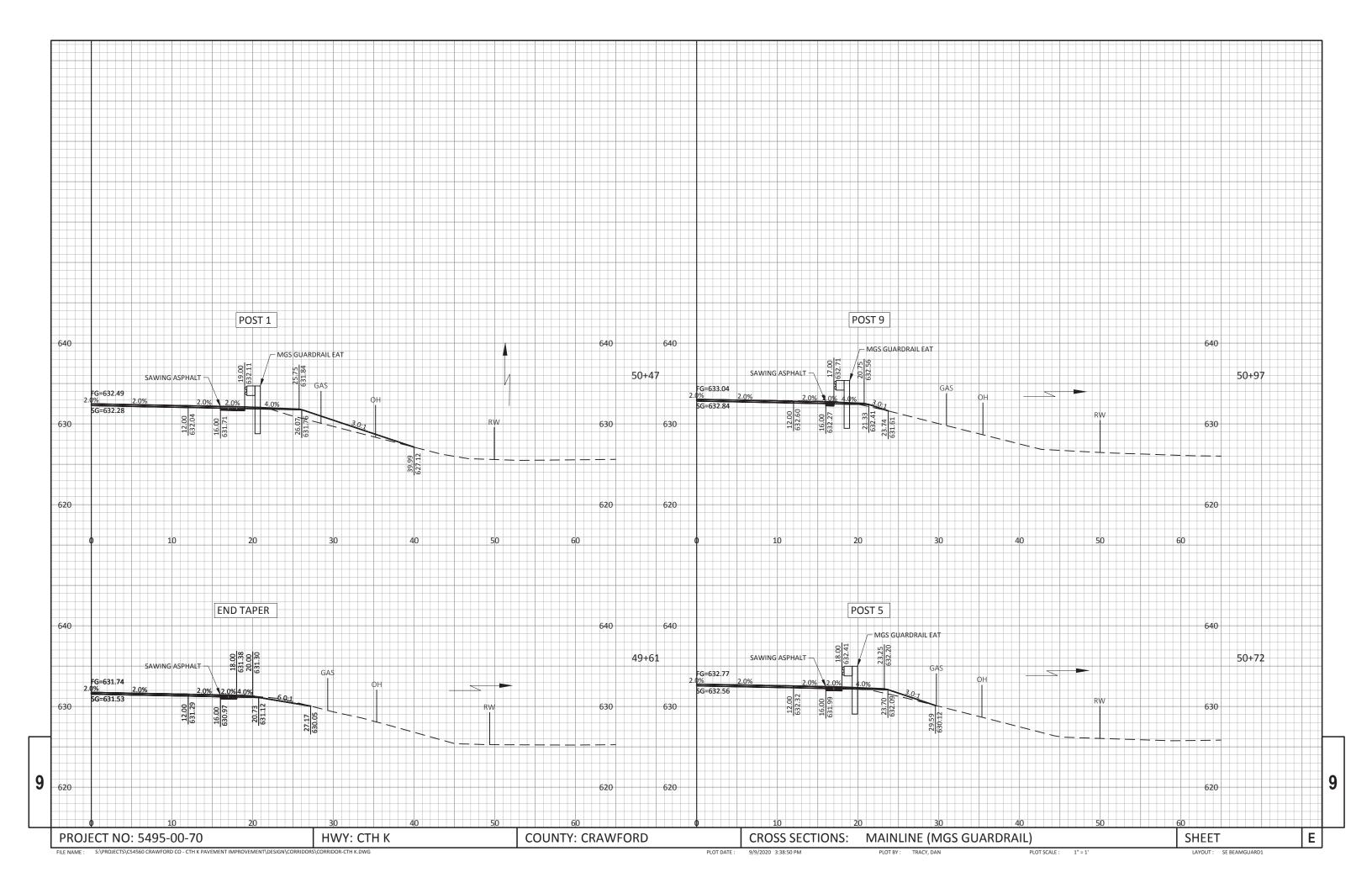
FILE NAME : C:\CAEfiles\Projects\tr_d1\51210920.dgn

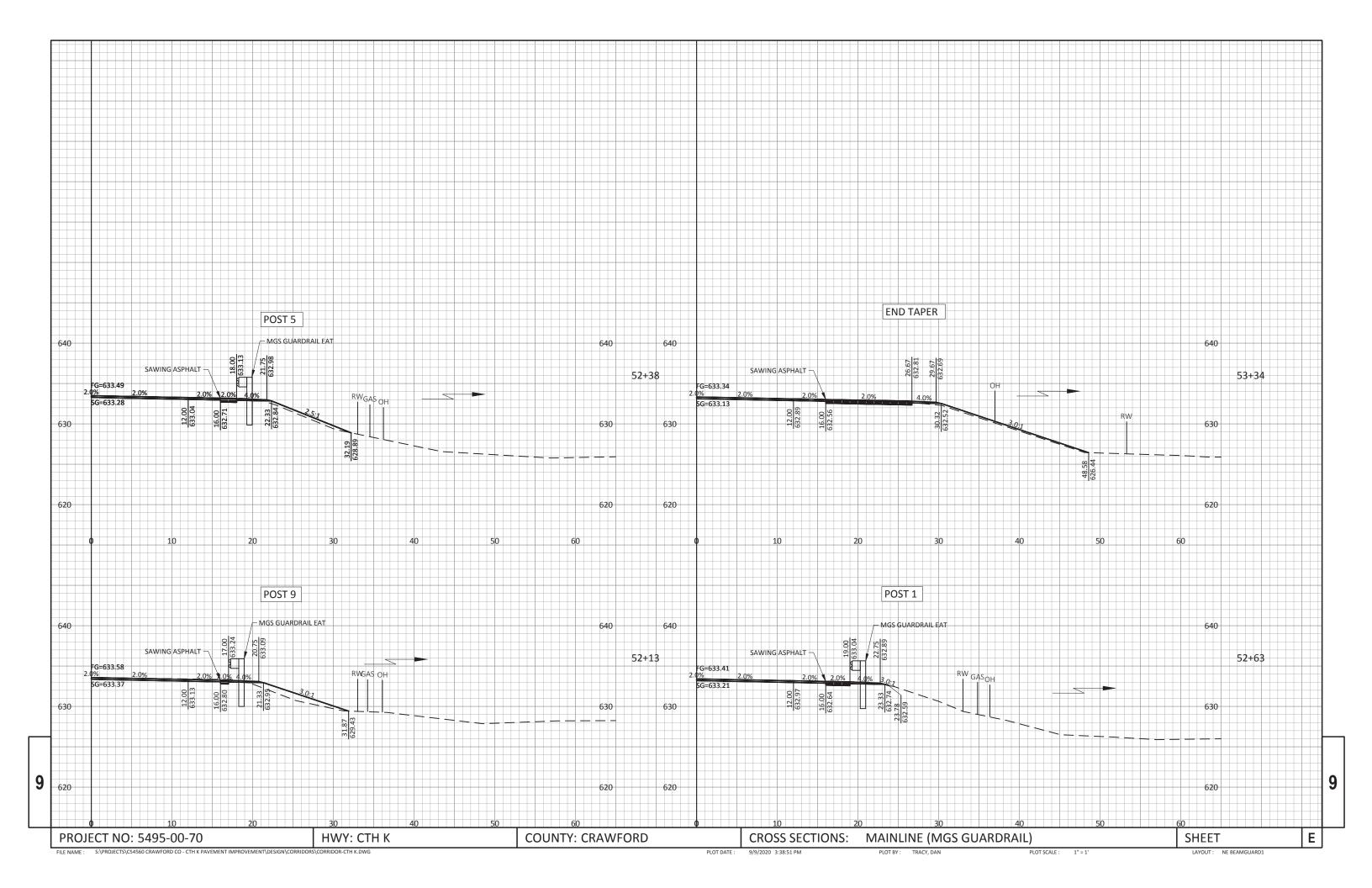
PLOT DATE : B-SEPT-2020 3:05

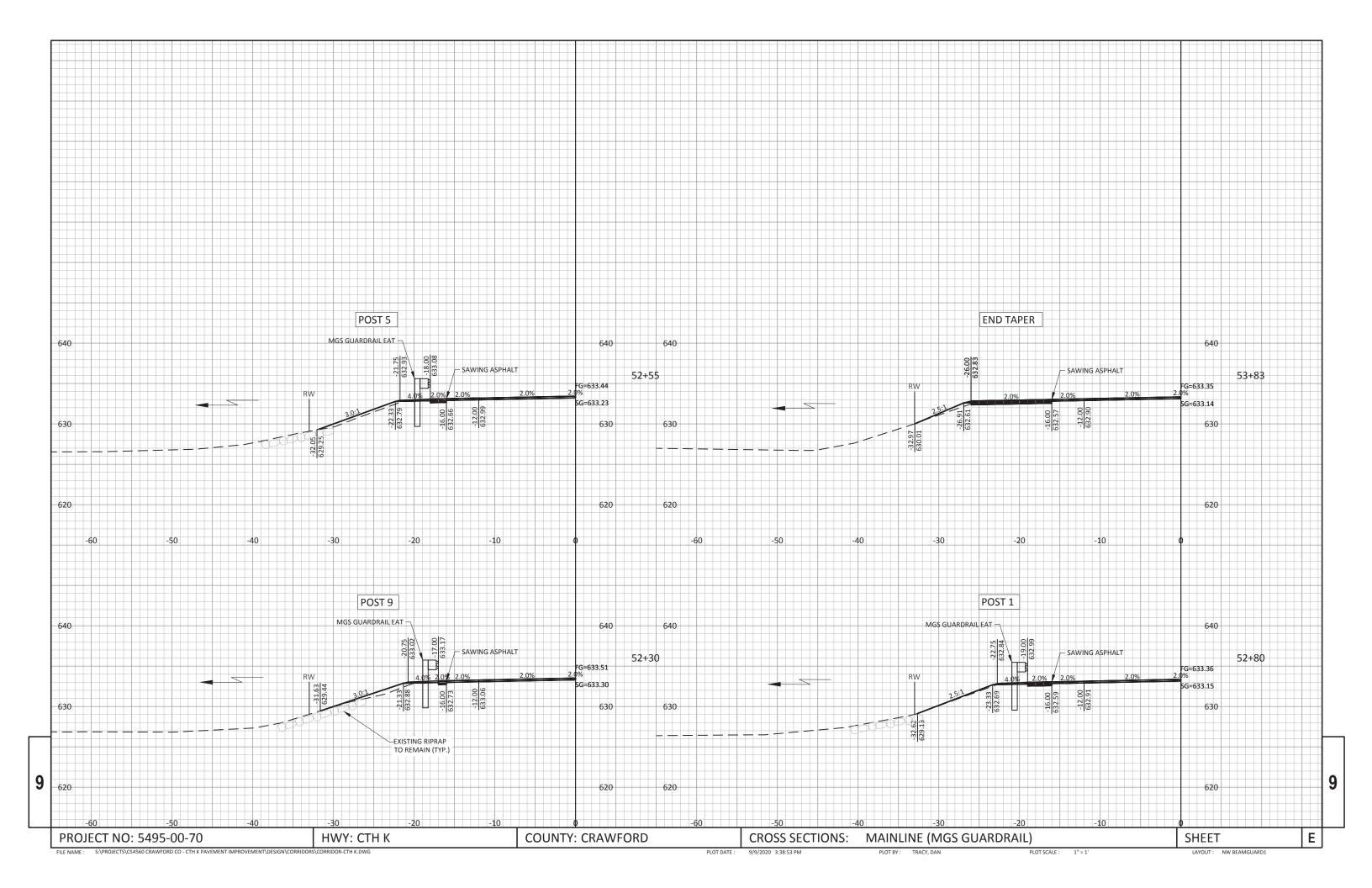
PLOT BY : dotc4c

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











Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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