MAR 2014

ORDER OF SHEETS

Section No. 3

Section No. 6

Section No. 1 Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3

Miscellaneous Quantities

Standard Detail Drawings

TOTAL SHEETS =

STATE OF WISCONSIN

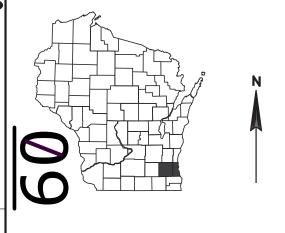
DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

EAST - WEST FREEWAY

STH 16 TO MILWAUKEE COUNTY LINE AND 70TH STREET TO 31ST STREET IH-94

WAUKESHA & MILWAUKEE COUNTIES



DESIGN DESIGNATION WAUKESHA

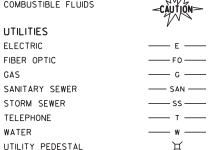
A.A.D.T.	2012	=	105,800	153,000
A.A.D.T.	2054	=	133,190	169,700
D.H.V.		=	7.4	6.2
D.D.		=	56 / 44	56 / 44
T.		=	9.0	7.6
DESIGN SI	PEED	=	70 / 60	60
FSALS		=		

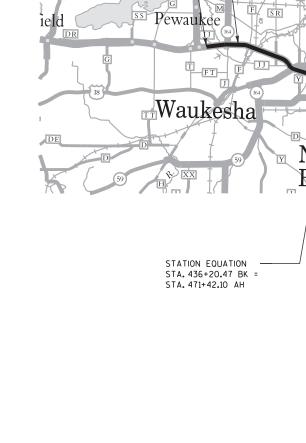
MILWAUKEE

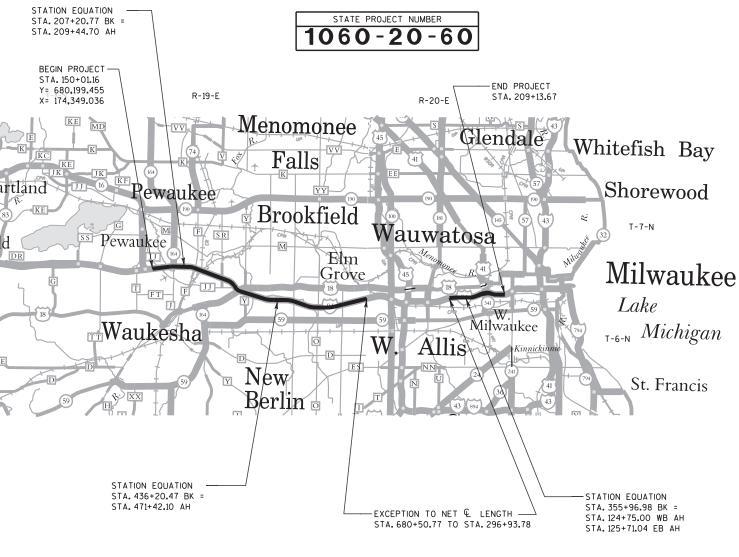
POWER POLE

TELEPHONE POLE

CONVENTIONAL SYMBOLS	
PLAN	
CORPORATE LIMITS	<u> </u>
REFERENCE LINE	
COMBUSTIBLE FLUIDS	-CAUTION-
UTILITIES	,
ELECTRIC	— Е —
FIBER OPTIC	—— F0 ——







LAYOUT 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 12.036 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD29). COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY, NAD 1983 (97) AND COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WAUKESHA COUNTY, NAD 1983 (97).

PLOT NAME :

STATE PROJECT	FEDERAL PROJEC	T
STATE PROJECT	PROJECT	CONTRACT
1060-20-60		

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

DEI ARTIMERT	٠.	TITALIST OILTA HOLL
PREPARED BY		
Surveyor		WISDOT
Designer		DAVID PITTMAN
Project Manager		JOE GALLAMORE
Regional Examiner		
Regional Supervisor		WAFA ELOAO
C.O. Examiner		

APPROVED FOR THE DEPARTMENT 11/1/2013

AT&T MOBILITY

UTILITY CONTACTS

CRACK SEALING LOCATIONS ARE APPROXIMATE AND WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CRACK SEALING AREAS INCLUDE MAINLINE TRAVEL LANES. SHOULDERS, AUXILARY LANES AND TAPER SECTIONS, AND RAMPS.

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

CONCRETE JOINTS SHALL MATCH ABUTTING PAVEMENT AND CURB AND GUTTER JOINTS UNLESS OTHERWISE DESIGNATED BY THE ENGINEER.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THA AR E NOT SHOWN.

OTHER CONTACTS

WISCONSIN DNR

MR. MICHAEL THOMPSON 2300 N. MARTIN LUTHER KING DR. MILWAUKEE WI 53213 PHONE: (414) 263-8648 FAX: (414) 263-8483 MichaelC.Thompson@Wisconsin.gov

WISCONSIN DOT DESIGN

MR. JOE GALLAMORE, P. E. 141 NW BARSTOW STREET P.O. BOX 798 WAUKESHA, WI 53187 0798 PHONE: (262) 548-5601 joe.gallamore@dot.wi.gov

MR. JEFF WEIGEL. DPW W240 N3065 PEWAUKEE RD. PEWAUKEE, WI 53072 PHONE: (262) 691-0770 FAX: (262) 691-1798 w eigel@pew aukee.w i.us

PEWAUKEE, CITY OF

WEST SHORE PIPELINE COMPANY

MR. MICHAEL NORRIS, RIGHT OF WAY AGENT C/O BUCKEYE PARTNERS, L.P. 12920 BELL RD. LEMONT. IL 60439 PHONE: (219) 313-5321 FAX: (219) 397-6138

mrnorris@buckeye.com

MIDWEST FIBER NETWORKS

MR RICHARD TRGOVEC, OSP ENGINEER 3701 W. BURNHAM STREET, STE C MILWAUKEE. WI 53215 PHONE: (414) 672-5612 FAX: (414) 226-2269 rtrgovec@midw estfibernetw orks.com

MILWAUKEE METRO SEWERAGE DIST.

MS. DEBRA JENSEN, PLANNING SERVICES SUPERVISOR 260 W SEEBOTH ST MILWAUKEE, WI 53204 1446 PHONE: (414) 225-2143

WE ENERGIES (STEAM)

djensen@mmsd.com

MR. LATROY BRUMFIELD, PROJECT MANAGER 333 W. EVERETT ST - A279 MILWAUKEE, WI 53203 PHONE: (414) 221-5617 FAX: (414) 221-2336

latroy brumfield@w e-energies.com

TW TELECOM

MR. BRAHIM GADDOUR OSP ENGINEERING DEPARTMENT 3235 INTERTECH DRIVE, SUITE 600 BROOKFIELD, WI 53045 PHONE: (414) 908-1011 john.cottrell@tw telecom.com

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

MR. MIKE JANSEN, NETWORK OPS. MANAGER 15345 W. COFFEE RD NEW BERLIN, WI 53151 PHONE: (262) 785-7102

FAX: (262) 785-7108 MJ2179@att.com

AT&T CORP.

MR. CARL DONAHUE 866 ROCK CREEK ROAD PLANO. IL 60545 PHONE: (847) 420-9115 FAX: (847) 244-9597 cd8729@att.com

WINDSTREAM KDL, INC.

MR. JIM KOSTUCH, PROJECT MANAGER (F/K/A KDL TELECOM) 13935 BISHOPS DR. BROOKFIELD. WI 53005 PHONE: (262) 792-7938 james.kostuch@w indstream.com

ACCESS ENGINEERING, LLC

MR. BRUCE ROWELL, PRESIDENT 6772 LOWER ROAD SOBIESKI, WI 54171 PHONE: (920) 826-4600 FAX: (920) 826-6710 brow ell@access-engineering.com

WEST ALLIS, CITY OF

MR. TERRY MEINCKE 7525 W GREENFIELD AVE WEST ALLIS, WI 53214 PHONE: (414) 302-8876 tmeincke@w estallisw i.gov

TOWN OF BROOKFIELD

MR. JEFF GOLNER 645 N JANACEK ROAD BROOKFIELD, WI 53045 PHONE: (262) 796-3795

(CONTINUED ON NEXT PAGE)



www.DiggersHotline.com

HWY: IH-94 **COUNTY: MILWAUKEE & WAUKESHA GENERAL NOTES AND UTILITY CONTACTS** SHEET: PROJECT NO: 1060-20-60 FILE NAME : PLOT DATE PLOT NAME PLOT SCALE: 1:1

WE ENERGIES (ELECTRIC)

MR. LATROY BRUMFIELD, PROJECT MANAGER 333 W. EVERETT ST - A299 MILWAUKEE, WI 53203 PHONE: (414) 221-5617 FAX: (414) 221-2336

latroy brumfield@w e-energies.com

WAUKESHA SANITARY & STORM SEWER, CITY OF WEST ALLIS, CITY OF

MR. PAUL DAY, P. E. 130 DELAFIELD STREET WAUKESHA, WI 53188 3616 PHONE: (262) 524-3585 FAX: (262) 524-3898 pday@ci.w aukesha.wi.us

WISC. GAS CO. D/B/A WE ENERGIES

MR. LATROY BRUMFIELD, PROJECT MANAGER 333 W. EVERETT ST - A299 MILWAUKEE, WI 53203 PHONE: (414) 221-5617 FAX: (414) 221-2336

latroy brumfield@w e-energies.com

BROOKFIELD SAN DIST. 4, TOWN OF

MR. TERRY HEIDMANN, SUPERINTENDENT 150 S BARKER RD PO BOX 1296 BROOKFIELD, WI 53008 1296 PHONE: (262) 798-8629 FAX: (262) 798-8633 sd4heidmann@core.com

WISDOT STOC

MR. JEFF MADSON 433 W ST. PAUL AVE., STE 300 MILWAUKEE, WI 53203 3007 PHONE: (414) 225-3723 jeffrey.madson@dot.wi.gov

BROOKFIELD DPW, CITY OF

MR. TOM GRISA, DIRECTOR 2000 N. CALHOUN ROAD BROOKFIELD, WI 53005 PHONE: (262) 782-9650 FAX: (262) 782-1323

NEW BERLIN, CITY OF

MR. JEFF CHASE, CITY ENGINEER 3805 SOUTH CASPER DRIVE NEW BERLIN, WI 53151 0921

SPRINT COMMUNICATIONS, L.P.

MR. JIM BURTON, FACILITIES ENGINEER I/OSP-EAST 5600 N RIVER ROAD, STE 200 ROSEMONT, IL 60018 PHONE: (708) 955-6659 FAX: (630) 379-5958 james.m.burton@sprint.com

MR. MICHAEL LEWIS, CITY ENGINEER 7525 W GREENFIELD AVE WEST ALLIS, WI 53214 PHONE: (414) 302-8360 EXT. 8 mlew is@w estallisw i.gov

WISDOT ATR PULL BOXES

MR. CLIFF SEROWSKI 935 S. 60TH STREET WEST ALLIS, WI 53214 PHONE: (414) 266-1157 clifford.serow ski@dot.w i.gov

MILWAUKEE, CITY OF

MR. JEFFREY POLENSKE, CITY ENGINEER 841 N BROADWAY RM 701 MILWAUKEE, WI 53202 PHONE: (414) 286-3701 FAX: (414) 286-5994 jeffrey.polenske@milw aukee.gov

WAUWATOSA, CITY OF

MR. BILL WEHRLEY, CITY ENGINEER 7725 W. NORTH AVE. WAUWATOSA, WI 53213 PHONE: (414) 479-8929 FAX: (414) 471-8492 w w ehrley@w auw atosa.net

VERIZON BUSINESS DIVISION

OSP NATIONAL SUPPORT/INVESTIGATIONS 2400 N GLENVILLE RICHARDSON, TX 75082 PHONE: (972) 729-6322 Investigations@Verizon.com

WEST ALLIS, CITY OF

MR. DANIEL SCHWEBKE 7525 W GREENFIELD AVE WEST ALLIS, WI 53214 PHONE: (414) 302-8827 dschw ebke@w estallisw i.gov **WAUKESHA UTILITY - WATER**

MS. KELLY ZYLSTRA, P.E., TECHL SRVC MGR P.O. BOX 1648 WAUKESHA, WI 53188 164 PHONE: (262) 521-5272 EXT 536 FAX: (262) 521-3999 contactus@w aukesha-w ater.com

WAUKESHA-ENGINEERING, CITY OF

MR. FRED ABADI, P.E., DIRECTOR OF PUBLIC WORKS 130 DELAFIELD STREET WAUKESHA, WI 53188 3616 PHONE: (262) 524-3596 FAX: (262) 524-3898 fabadi@ci.w aukesha.wi.us

AT&T WISCONSIN

MS. KARIN EWOLDT, AREA MANAGER 152 DIXON ST. MADISON, WI 53704 PHONE: (608) 252-5423 ke3543@att.com

WISDOT TRAFFIC LIGHTING

MR. MATT PFEIFER, SE REGION LIGHTING ENGINEER 141 NW BARSTOW ST. WAUKESHA, WI 53187 0798 PHONE: (262) 548-8778 matthew .pfeifer@dot.wi.gov

WEST MILWAUKEE, VILLAGE OF

MR. TIMOTHY FREITAG, VILLAGE ADMINISTRATOR 4755 W BELOIT WEST MILWAUKEE, WI 53214 PHONE: (414) 645-1530 EXT. 130 FAX: (414) 671-8089

ELM GROVE, VILLAGE OF

MR. MIKE FLAHERTY, DIRECTOR OF PUBLIC WORKS 13600 JUNEAU BOULEVARD ELM GROVE, WI 53212 0906 PHONE: (262) 782-6700 FAX: (262) 782-8714

WISDOT RWIS PROGRAM

MR. MIKE A DAMS (COMMUN. TOWER) RM 501 PO BOX 7986 MADISON, WI 53707 PHONE: (608) 267-7856 michael.adams@dot.state.wi.us

MILWAUKEE COUNTY DPW

MR. GREG HEISEL, ASST. HWY MAINTENANCE MGR 10190 W WATERTOWN PLK ROAD MILWAUKEE, WI 53226 PHONE: (414) 257-6580 FAX: (414) 257-6501 greg.heisel@milw cnty.com

WAUKESHA COUNTY DPW

MR. GARY EVANS, ENG. SERVICES MGR. 1320 PEWAUKEE ROAD, RM. 220 WAUKESHA, WI 53188 PHONE: (262) 548-7740 FAX: (262) 896-8097 gevans@w aukeshacounty.gov

WE ENERGIES (GAS OPERATIONS)

MR. LATROY BRUMFIELD, PROJECT MANAGER 333 W. EVERETT ST - A299 MILWAUKEE, WI 53203 PHONE: (414) 221-5617 FAX: (414) 221-2336 latroy brumfield@w e-energies.com

ANR PIPELINE CO

MR. LARRY HUBER, PROPERTY RIGHTS SP. W3925 PIPELINE LANE EDEN, WI 53019 PHONE: (920) 477-2235 EXT. 13 FAX: (920) 477-2240 law rence_huber@transcanada.com

BROOKFIELD WATER DEPT, CITY OF

MR. MARK SIMON, SUPERINTENDENT 19700 RIVERVIEW DR BROOKFIELD, WI 53045 PHONE: (262) 796-6717 FAX: (262) 782-0485

ATC MANAGEMENT, INC.

MR. MIKE OLSEN 801 O'KEEFE ROAD PO BOX 6113 DEPERE, WI 54115 6113 PHONE: (920) 338-6582 molsen@atcllc.com

WEST ALLIS, CITY OF MR. BRUCE DANOWSKI

7525 W GREENFIELD AVE WEST ALLIS, WI 53214 bdanow ski@w estallisw i.gov

PLOT NAME

TIME WARNER CABLE

MR. STEVE CRAMER, UTILITY COORD. 1320 N. MARTIN LUTHER KING JR. DR. MILWAUKEE, WI 53212 PHONE: (414) 277-4045 FAX: (414) 277-0638 steve.cramer@tw cable.com

PAETEC BUSINESS SERVICES

MR. JIM KOSTUCH, SUPERVISOR - OSP NETWORK 13935 BISHOPS DR. BROOKFIELD, WI 53005 PHONE: (262) 792-7938 james.kostuch@windstream.com

BROOKFIELD SEWER DEPT. CITY OF

MR. RON EIFLER, FACILITIES MANAGER 21225 ENTERPRISE AVE BROOKFIELD, WI 53045 PHONE: (262) 782-0199 FAX: (262) 782-8994 eifer@ci.brookfield.wi.us

PEWAUKEE. VILLAGE OF

MR. DAVID WHITE, DIR. WATER/SEWER UTILITY 235 HICKORY STREET PEWAUKEE, WI 53072 PHONE: (262) 691-5694 dw hite@villageofpew aukee.com

AT&T CORP.

MR. DON DIETSCH, OSP PROJECT MANAGER 3701 W BURNHAM STREET, STE C MILWAUKEE, WI 53215 PHONE: (414) 549-3569 d.dietsch@northwindtech.com

TDS METROCOM

MR. MICHAEL JOHNSON, SENIOR NETWORK SPECIALIST 20875 CROSSROADS CIRCLE WAUKESHA, WI 53186 PHONE: (262) 754-3052 FAX: (262) 717-6002 michael.johnson@tdstelecom.com

WEST ALLIS, CITY OF

MR. PETER DANIELS 7525 W GREENFIELD AVE WEST ALLIS, WI 53214 PHONE: (414) 302-8374 pdaniels@w estallisw i.gov

PLOT SCALE : 1:1

HWY: I-94 **COUNTY: MILWAUKEE & WAUKESHA GENERAL NOTES AND UTILITY CONTACTS** SHEET: PROJECT NO: 1060-20-60

PLOT DATE FII F NAME



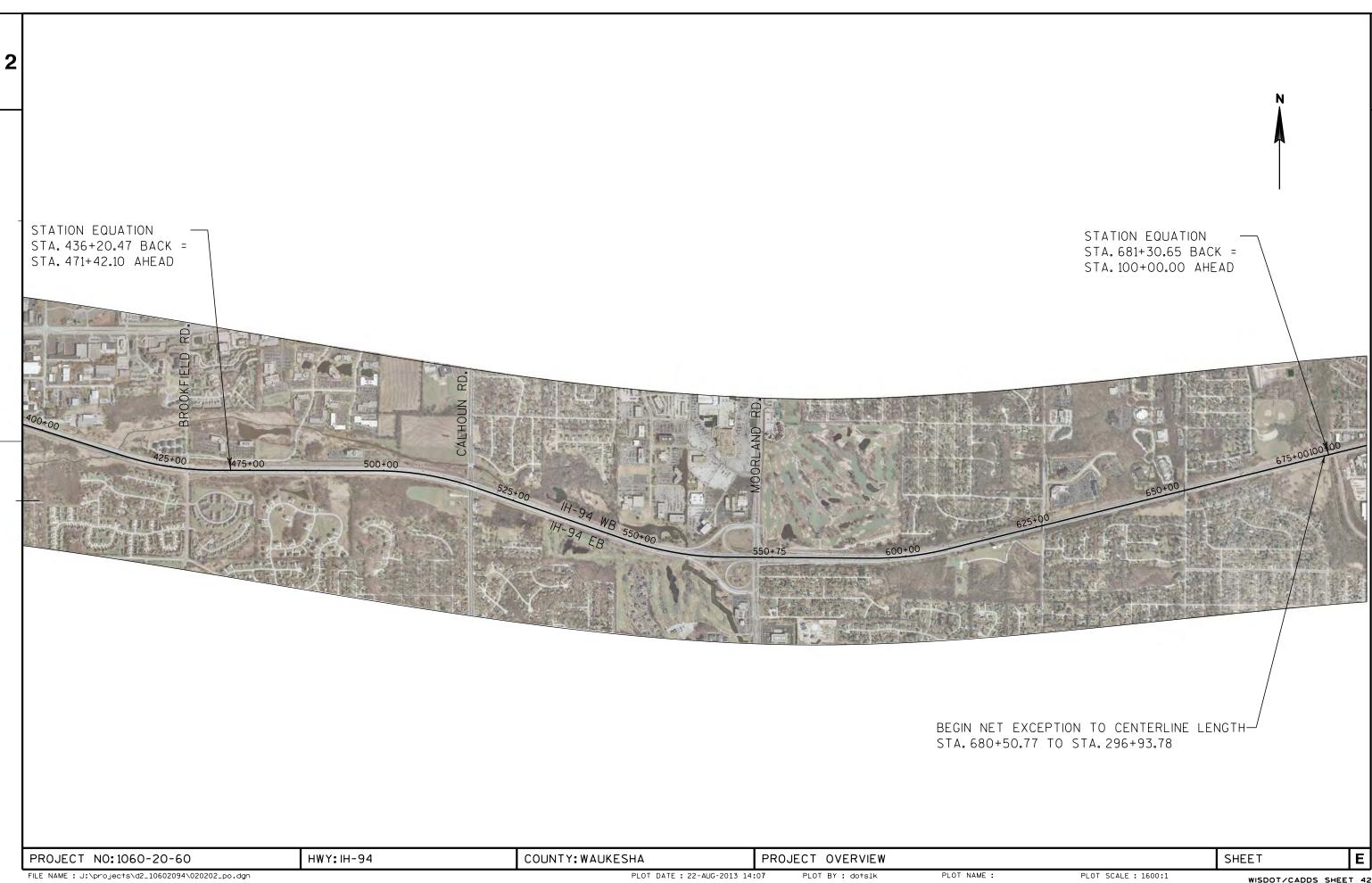
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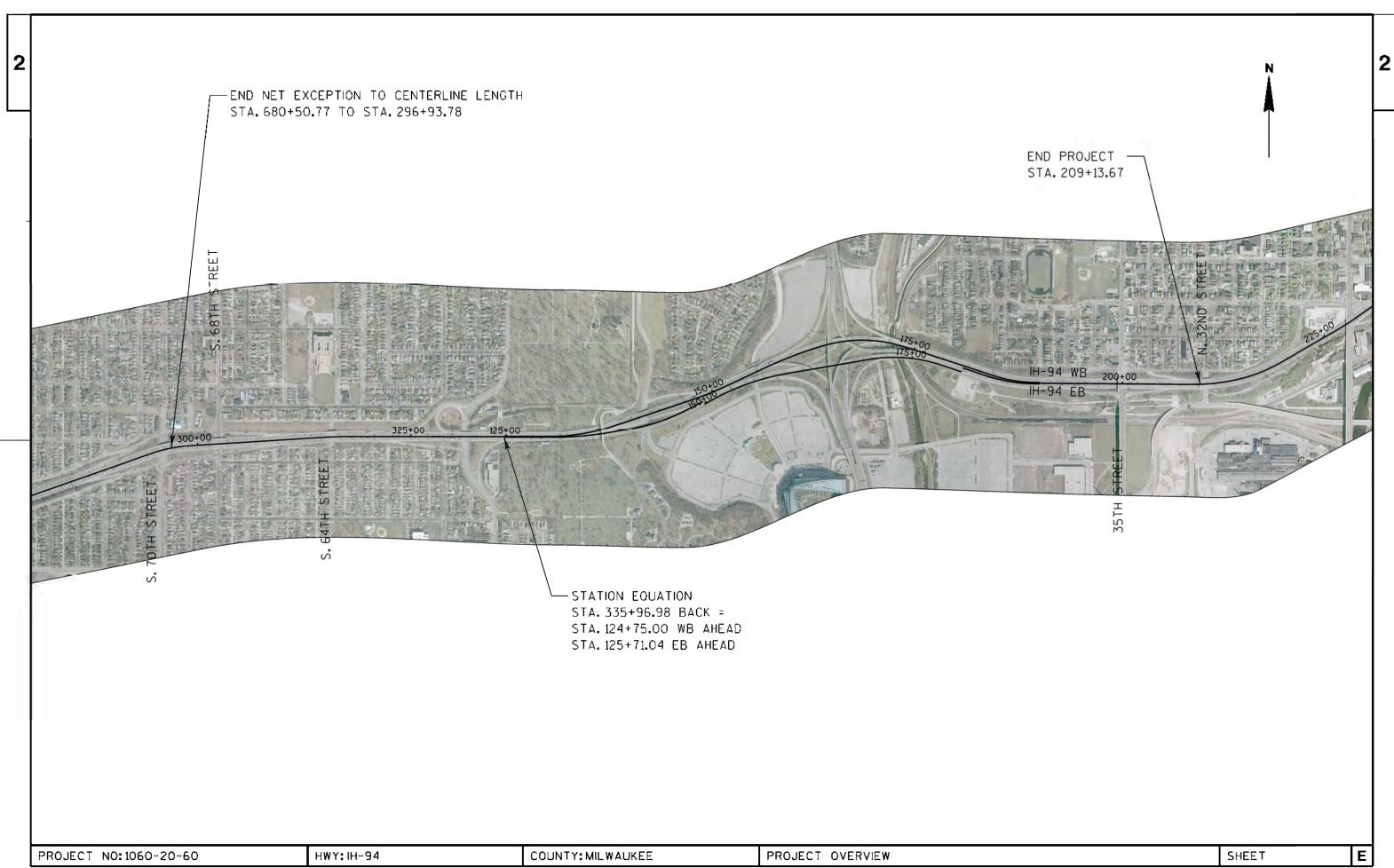
PLOT BY : dotslk

PLOT NAME : PLOT SCALE : 1600:1

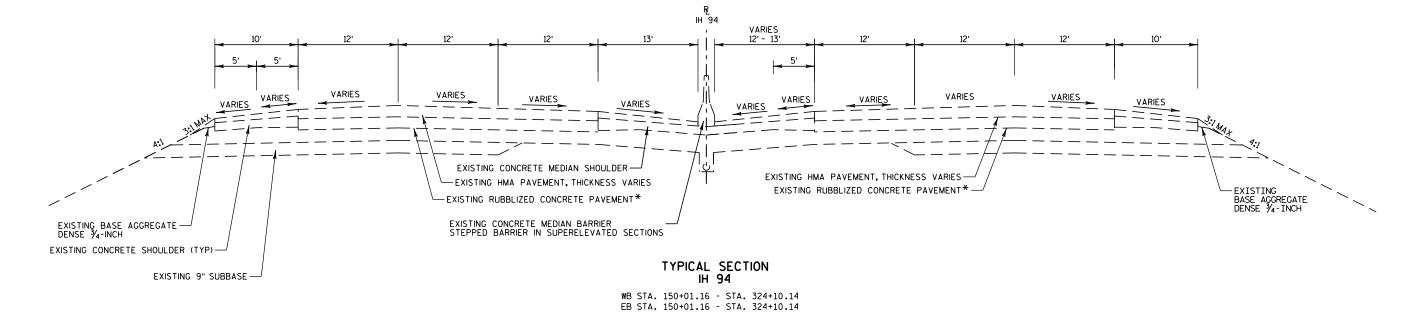
WISDOT/CADDS SHEET 42



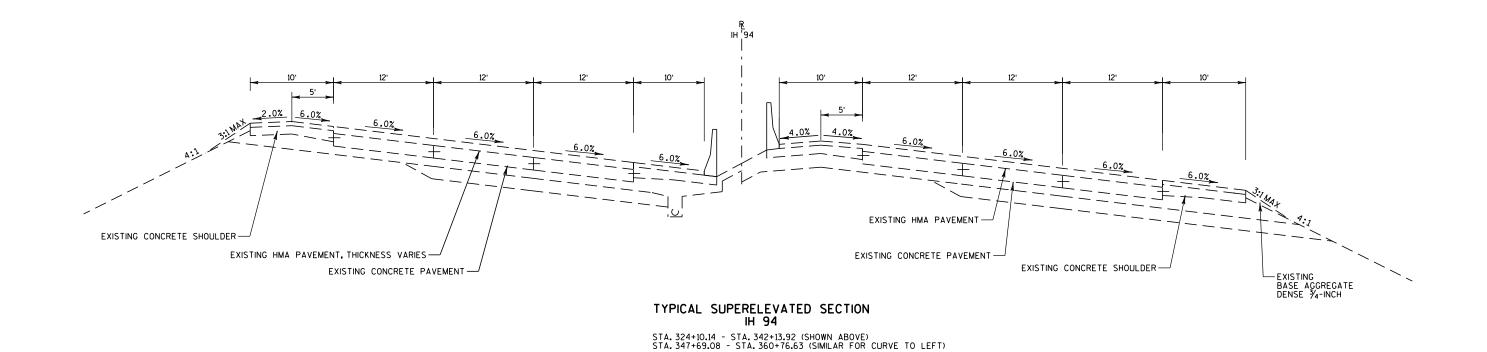
WISDOT/CADDS SHEET 42





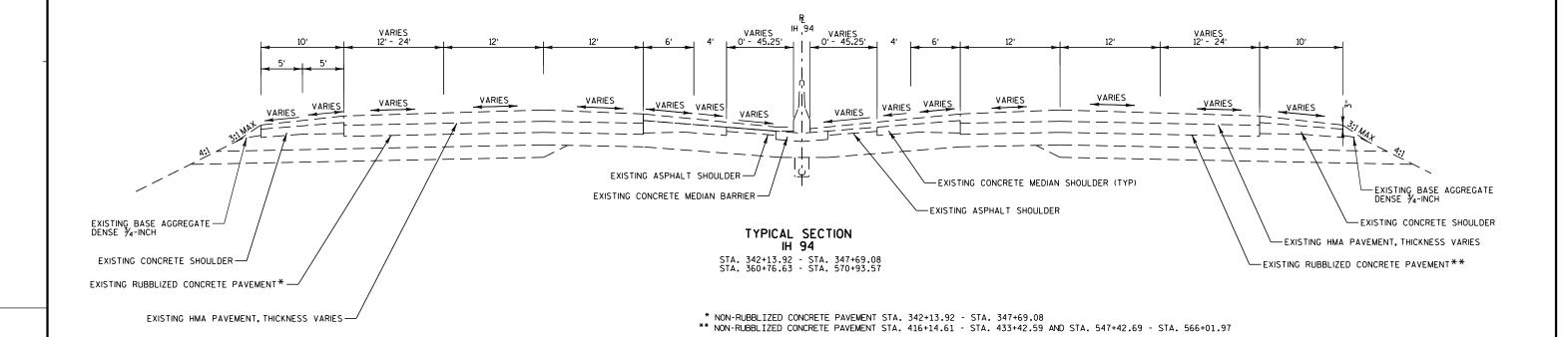


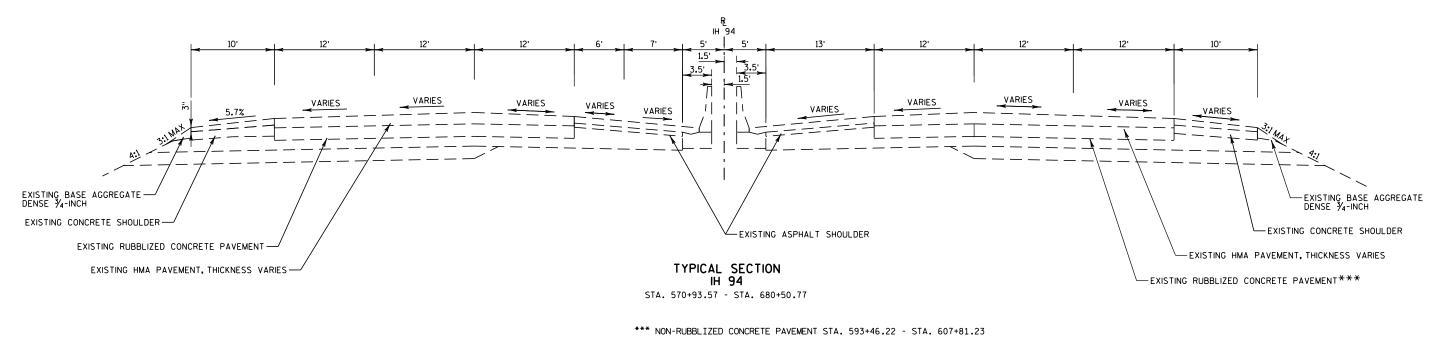
* NON-RUBBLIZED CONCRETE PAVEMENT STA. 189+37.79 - STA. 195+04.89 AND STA. 233+68.35 - STA. 243+90.83



PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA TYPICAL SECTIONS SHEET I

PLOT BY : dotslk

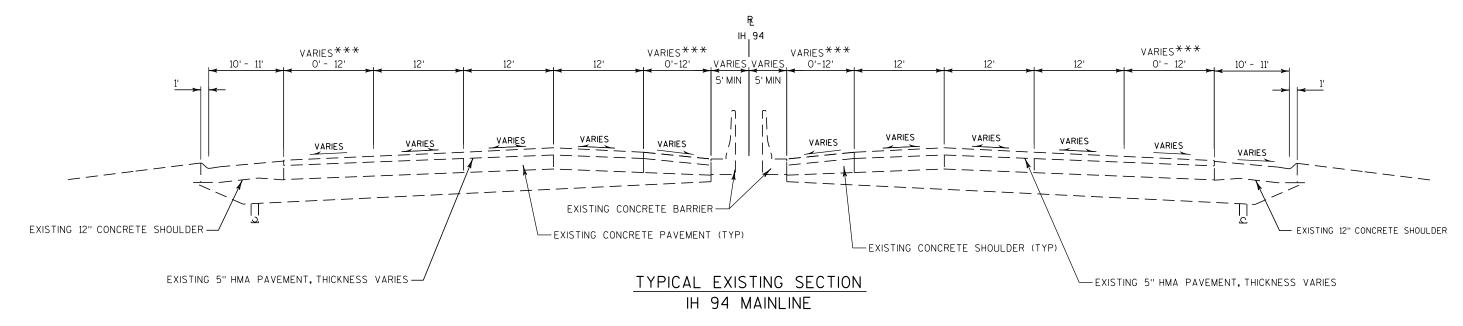




PROJECT NO:1060-20-60 HWY:IH-94 COUNTY:WAUKESHA TYPICAL SECTIONS SHEET **E**

PLOT BY : dotslk

2



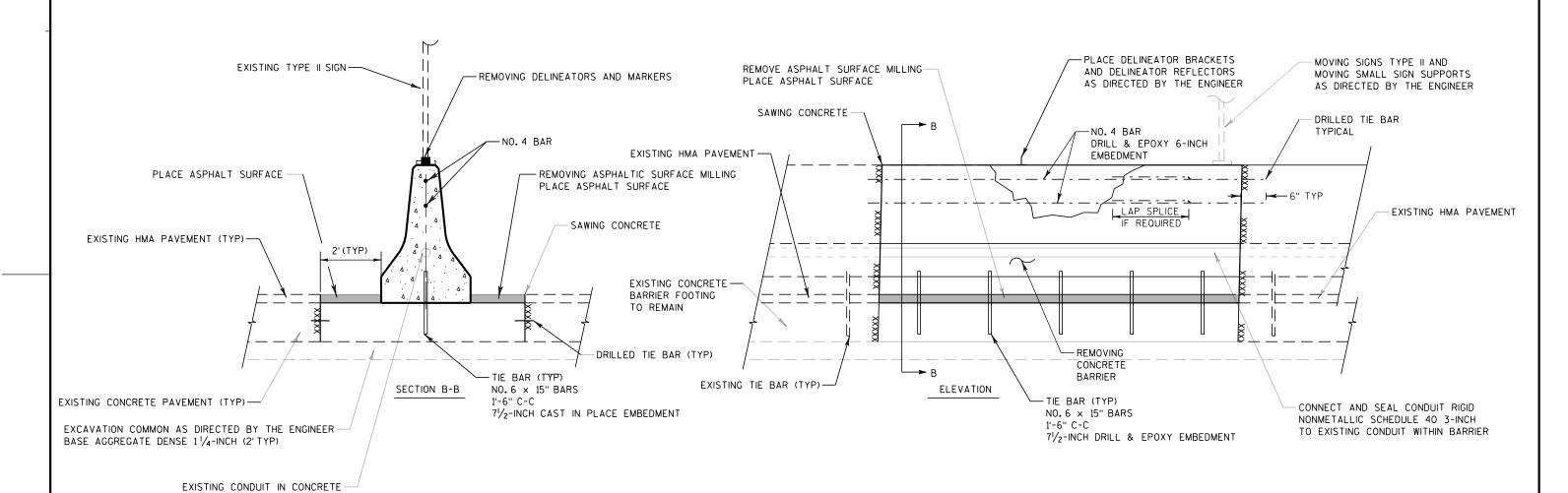
STA. 296+93.78 - STA. 335+96.98 STA. 124+75.00 - STA. 209+13.67 STA. 296+93.78 - STA. 335+96.98 STA. 124+71.04 - STA. 209+13.67

*** AUXILLIARY LANES

PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA TYPICAL SECTIONS SHEET **E**







CONCRETE BARRIER WALL

NOTE: THIS DETAIL IS SHOWN FOR CONCRETE BARRIER DOUBLE-FACE 32-INCH CONCRETE BARRIER SINGLE-FACED 32-INCH IS SIMILAR. SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS

PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA/MILWAUKEE CONSTRUCTION DETAILS SHEET **E**

BARRIER DOUBLE-FACE ONLY

PLOT NAME :

2 - FILL CRACK WITH CRACK SEAL MATERIAL PAID UNDER SPV. 0085.01 AS DESCRIBED IN SPECIAL PROVISIONS VAR. 0.25"-1.5" EXISTING HMA ∇ , \triangle Δ, Δ, LONGITUDINAL AND / OR TRANSVRSE CRACK SEALING - DETAIL

PROJECT NO: 1060-20-60 HWY: IH-94 COUNTY: WAUKESHA/MILWAUKEE CONSTRUCTION DETAILS

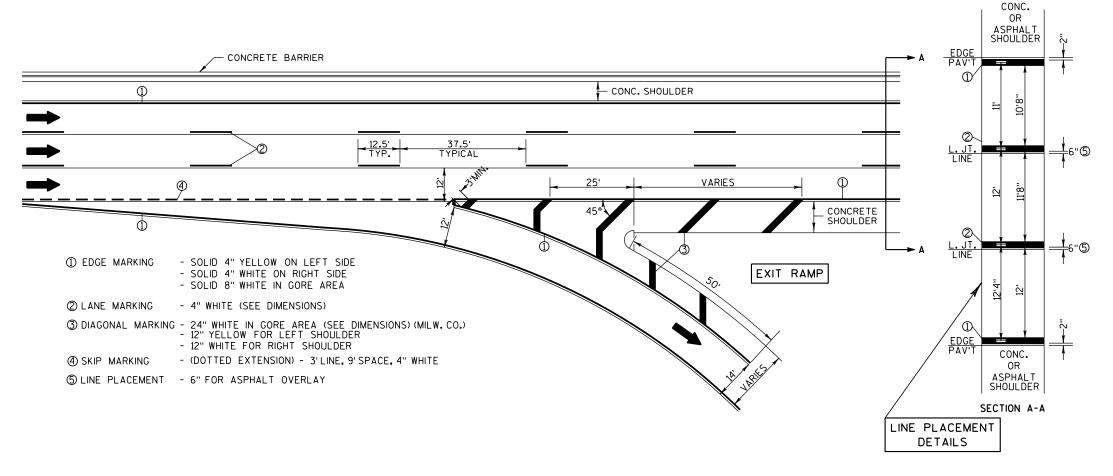
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PLOT NAME: PLOT NAME:

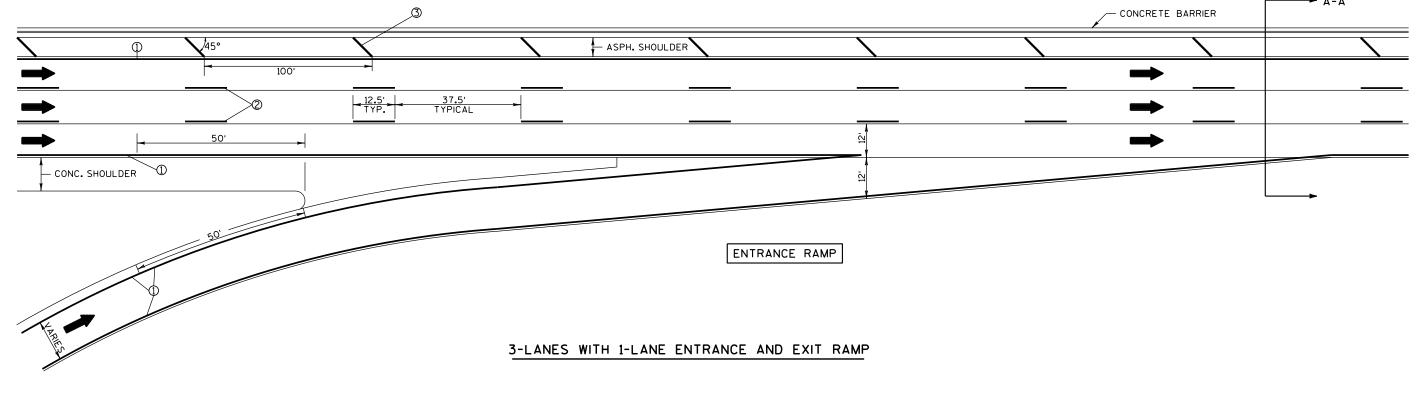
PLOT NAME: PLOT NAME: 200:11 WISDOT/CADDS SHEET 42





NOTES:

- 1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
- 2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3'LONG LINE AND A 9'SKIP.
- 3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
- 4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"×4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50'INTERVALS, INCIDENTAL TO PAV'T MARKING.
- 6. SEE STANDARD DETAIL DRAWING FOR RAISED PAVEMENT MARKERS IN GORE AND LINE WIDTH TOLERANCES.



PROJECT NO: 1060-20-60

HWY: IH-94

COUNTY: WAUKESHA/MILWAUKEE

PAVEMENT MARKING DETAIL

GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)

DESIGN NOTES ARE LOCATED ON LEVEL 63

SHEET

LEGEND

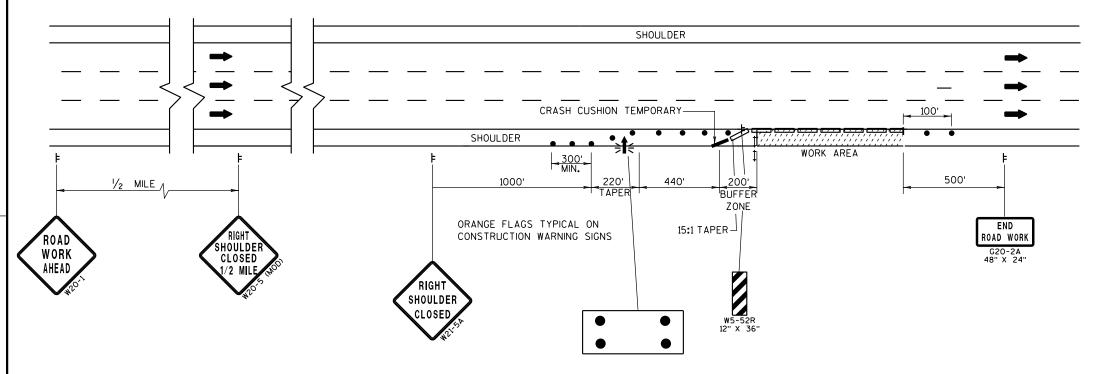
- DRUM
- F TEMPORARY SUPPORT
- † TYPE III BARRICADE
- ARROW BOARD
- TEMPORARY CONCRETE BARRIER

WORK AREA

DIRECTION OF TRAFFIC

TYPICAL SHOULDER CLOSURE

NOTE: RIGHT SHOULDER CLOSURE SHOWN; LEFT SHOULDER CLOSURE SIMILAR



TRAFFIC CONTROL NOTES

RIGHT LANE CLOSURE SHOWN, LEFT LANE CLOSURE SIMILAR.

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

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN)

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

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

WHEN A 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 DIRECTED BY THE ENGINEER.

ALL SHORT TERM LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA/MILWAUKEE TRAFFIC CONTROL SHEET **E**

FILE NAME: J:\projects\d2_10602094\021001_cd.dgn

PLOT DATE: 24-OCT-2013 13:03

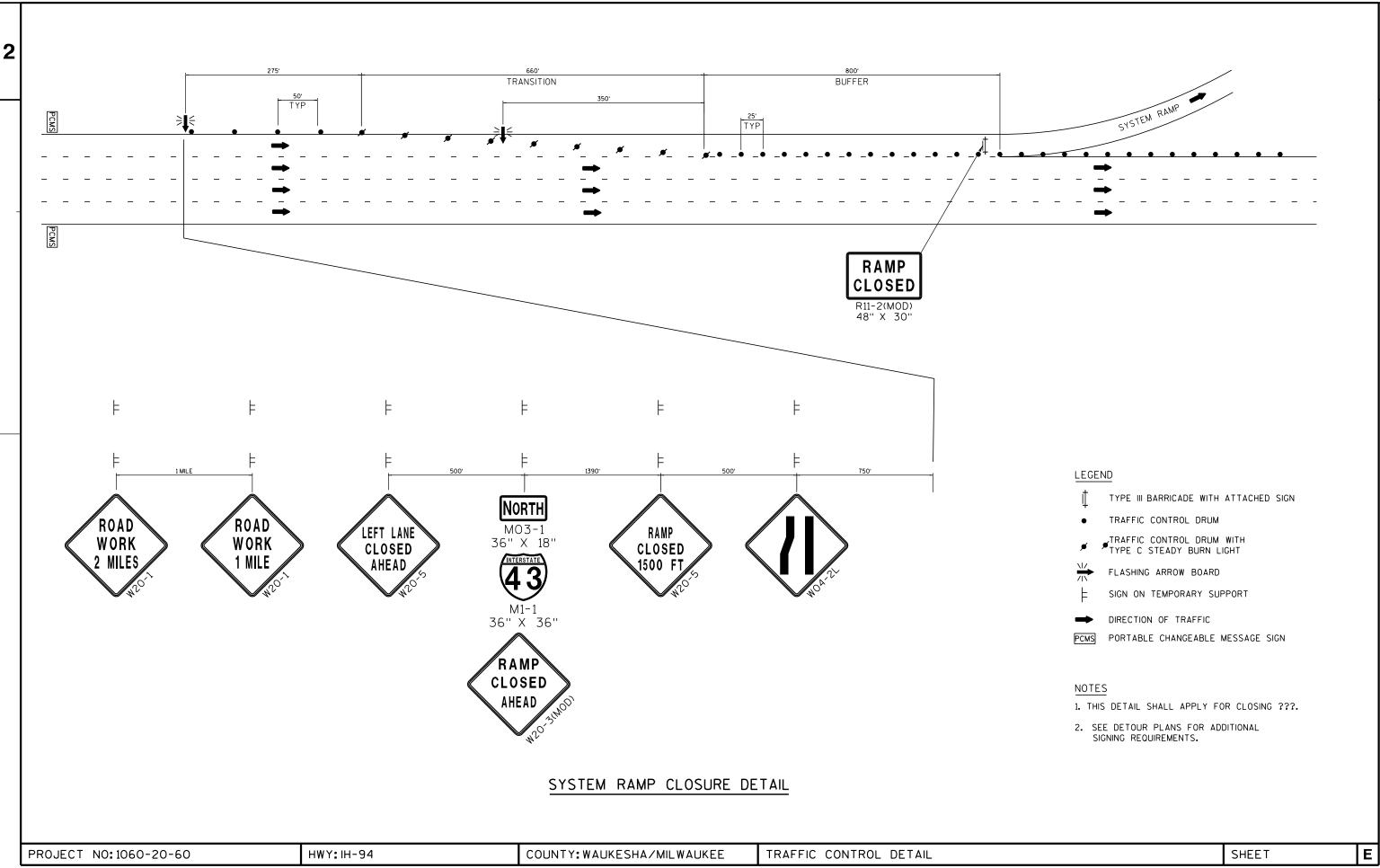
PLOT BY: dotsk

PLOT NAME:

PLOT NAME:

PLOT SCALE: 200:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\projects\d2_10602094\021001_cd.dgn

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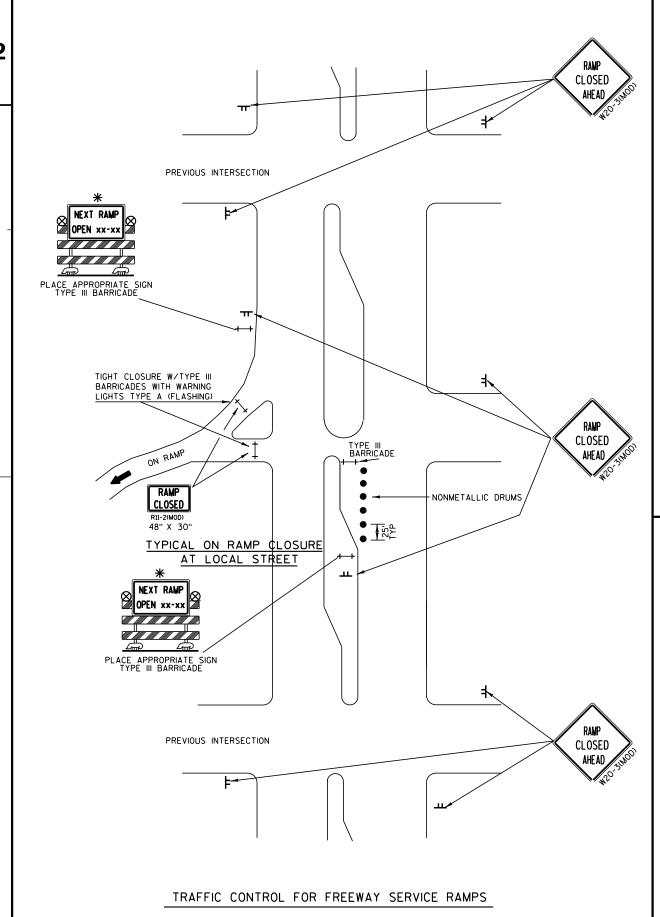
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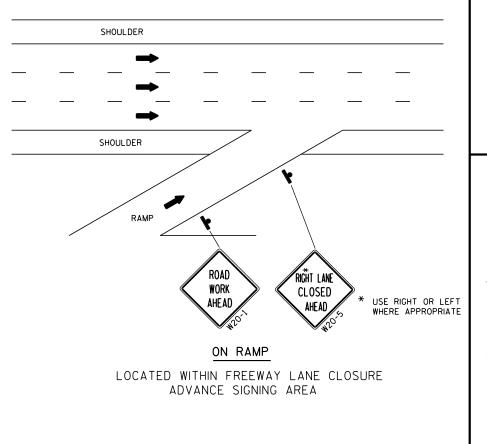
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PLOT SCALE: 200:1

WISDOT/CADDS SHEET 42





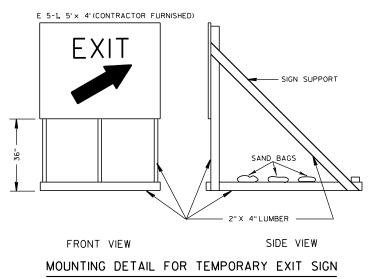


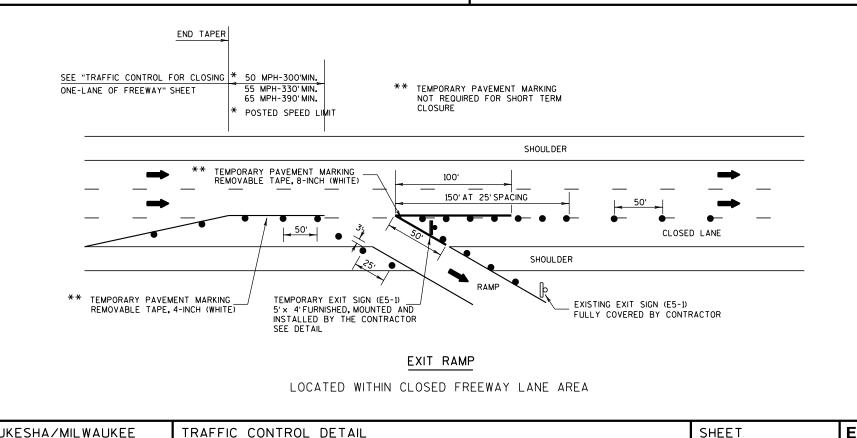
LEGEND

- - DRUM
- - SIGN ON FIXED SUPPORT

GENERAL NOTES

- 1. ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.
- 2. FOR SHORT TERM (3 DAYS OR LESS) FREEWAY LANE CLOSURES TEMPORARY SIGN SUPPORTS MAY BE USED. REMOVE OR COVER SIGNS WHEN NOT IN USE.





COUNTY: WAUKESHA/MILWAUKEE PROJECT NO: 1060-20-60 HWY: IH-94 PLOT BY : dotslk

N

BEGIN PROJECT — STA. 150+01.16



NOTE: FINAL LOCATIONS OF BARRIER WALL REMOVAL TO BE DETERMINED BY ENGINEER IN THE FIELD

PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA PLAN DETAILS SHEET

- REMOVING CONCRETE BARRIER CONCRETE BARRIER SINGLE-FACED 32-INCH MODIFIED REMOVING CONCRETE BARRIER --CONCRETE BARRIER SINGLE-FACED 32-INCH EXCAVATION COMMON INLET PROTECTION REQUIRED 50' WB BASE AGGREGATE DENSE 11/4-INCH STA 287+00 TO STA 293+20WB INLET PROTECTION REQUIRED IH-94 - REMOVING CONCRETE BARRIER
CONCRETE BARRIER SINGLE-FACED 32-INCH
EXCAVATION COMMON EXCAVATION COMMON BASE AGGREGATE DENSE 11/4-INCH 450' EB BASE AGGREGATE DENSE 11/4-INCH 150' WB INLET PROTECTION REQUIRED INLET PROTECTION REQUIRED NOTE: FINAL LOCATIONS OF BARRIER WALL REMOVAL TO BE DETERMINED BY ENGINEER IN THE FIELD PROJECT NO: 1060-20-60 HWY: IH-94 COUNTY: WAUKESHA PLAN DETAILS SHEET FILE NAME : J:\projects\d2_10602094\021205_PD.dgn PLOT DATE: 24-OCT-2013 12:51 PLOT BY : dotslk PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42





NOTE: FINAL LOCATIONS OF BARRIER WALL REMOVAL TO BE DETERMINED BY ENGINEER IN THE FIELD

REMOVING CONCRETE BARRIER —
CONCRETE BARRIER DOUBLE-FACED 32-INCH
EXCAVATION COMMON
BASE AGGREGATE DENSE 1 1/4-INCH
190' MEDIAN
INLET PROTECTION REQUIRED

PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA PLAN DETAILS SHEET **E**

REMOVING CONCRETE BARRIER CONCRETE BARRIER SINGLE-FACED 32-INCH
EXCAVATION COMMON
BASE AGGREGATE DENSE 11/4-INCH
STA 329+50 TO STA 333+50 WB





NOTE: FINAL LOCATIONS OF BARRIER WALL REMOVAL TO BE DETERMINED BY ENGINEER IN THE FIELD

PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA PLAN DETAILS SHEET **E**





NOTE: FINAL LOCATIONS OF BARRIER WALL REMOVAL TO BE DETERMINED BY ENGINEER IN THE FIELD

- REMOVING CONCRETE BARRIER

CONCRETE BARRIER SINGLE-FACED 32-INCH

EXCAVATION COMMON

BASE AGGREGATE DENSE 11/4-INCH

STA 413+00 TO STA 415+00 EB

PROJECT NO:1060-20-60 HWY: IH-94 COUNTY: WAUKESHA

PLAN DETAILS

SHEET

PLOT NAME :



-NET EXCEPTION TO CENTERLINE LENGTH — STA 680+50.77 TO STA 296+93.78



REMOVING CONCRETE BARRIER
CONCRETE BARRIER SINGLE-FACED 32-INCH
EXCAVATION COMMON
BASE AGGRAGATE DENSE 11/4-INCH
STA 679+50 TO STA 680+50

NOTE: FINAL LOCATIONS OF BARRIER WALL REMOVAL TO BE DETERMINED BY ENGINEER IN THE FIELD

PROJECT NO:1060-20-60 HWY:1H-94 COUNTY:WAUKESHA PLAN DETAILS SHEET E

2

-NET EXCEPTION TO CENTERLINE LENGTH — STA 680+50.77 TO STA 296+93.78





NOTE: FINAL LOCATIONS OF BARRIER WALL REMOVAL TO BE DETERMINED BY ENGINEER IN THE FIELD

PROJECT NO:1060-20-60 HWY:1H-94 COUNTY:MILWAUKEE PLAN DETAILS SHEET E

DATE 21	JAN14	EST	IMAT	E O F Q U A N		
LI NE NUMBER	ITFM	ITEM DESCRIPTION	UNI T	TOTAL	1060-20-60 QUANTI TY	
0010	108. 4400	CPM PROGRESS SCHEDULE	EACH	1. 000	1.000	
0020	204. 0157	REMOVING CONCRETE BARRIER	LF	2, 410. 000	2, 410. 000	
0030 0040	204. 0180 205. 0100	REMOVING DELINEATORS AND MARKERS EXCAVATION COMMON	EACH CY	27. 000 458. 000	27. 000 458. 000	
0050	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000	
		1060-20-60				
0060	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	916. 000	916. 000	
0070	416. 0610	DRILLED TIE BARS	EACH	3, 382. 000	3, 382. 000	
0800	455. 0605 465. 0105	TACK COAT ASPHALTIC SURFACE	GAL	15. 000 101. 000	15. 000 101. 000	
0090 0100	603. 0105	CONCRETE BARRIER SINGLE-FACED 32-INCH	TON LF	2, 220. 000	2, 220. 000	
0110	603. 0205 603. 8000	CONCRETE BARRIER DOUBLE-FACED 32-INCH CONCRETE BARRIER TEMPORARY PRECAST	LF LF	190. 000 5, 750. 000	190. 000 5, 750. 000	
0120	003. 8000	DELIVERED	LI	5, 750. 000	5, 750. 000	
0130	603. 8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	5, 750. 000	5, 750. 000	
0140	614. 0905	CRASH CUSHI ONS TEMPORARY	EACH	9. 000	9. 000	
0150	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS	EACH	1. 000	1. 000	
		(PROJECT) 01. 1060-20-60				
0160	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000	
0170	628. 1504	SILT FENCE MAINTENANCE	LF	2, 410, 000	2, 410, 000	
0180 0190	628. 1520 628. 1905	SILT FENCE MAINTENANCE MOBILIZATIONS EROSION CONTROL	LF EACH	2, 410. 000 8. 000	2, 410. 000 8. 000	
0200	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	4. 000	4. 000	
0210	628. 7010	INLET PROTECTION TYPE B	EACH	3. 000	3. 000	
0210	628. 7020	INLET PROTECTION TYPE D	EACH	1. 000	1. 000	
0230	633.0500	DELINEATOR REFLECTORS	EACH	29.000	29.000	
0240	633. 1000	DELINEATOR BRACKETS	EACH	27. 000	27. 000	
0250	638. 2102	MOVING SIGNS TYPE II	EACH	2. 000	2. 000	
0260	638. 4000	MOVING SMALL SIGN SUPPORTS	EACH	2. 000	2. 000	
0270	642. 5001 643. 0100	FIELD OFFICE TYPE B TRAFFIC CONTROL (PROJECT) 01. 1060-20-60	EACH EACH	1. 000 1. 000	1. 000 1. 000	
0280 0290	643. 0300	TRAFFIC CONTROL (PROJECT) 01. 1000-20-00	DAY	19, 837. 000	19, 837. 000	
0300	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	655. 000	655. 000	
0310	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	100.000	100.000	
0320	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	3, 489. 000	3, 489. 000	
0330	643. 0800	TRAFFIC CONTROL ARROW BOARDS	DAY	165.000	165.000	
0340 0350	643. 0900 643. 0920	TRAFFIC CONTROL SIGNS TRAFFIC CONTROL COVERING SIGNS TYPE II	DAY EACH	1, 340. 000 100. 000	1, 340. 000 100. 000	
		TRAFFIC CONTROL SIGNS PCMS	DAY	306.000	306.000	
0370 0380	646. 0106 646. 0126	PAVEMENT MARKING EPOXY 4-INCH PAVEMENT MARKING EPOXY 8-INCH	LF LF	324, 383. 000 42. 000	324, 383. 000 42. 000	
0390		PAVEMENT MARKING GROOVED WET REFLECTIVE	LF	27, 035. 000	27, 035. 000	
0400	444 0042 0	CONTRAST TAPE 4-INCH		12 222 000	12 222 000	
0400	646. U843. S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH	LF	12, 332. 000	12, 332. 000	
0.440	(4/ 0000 0	DAVENENT MADICING ODGG/FD WET BEEL FOTTING		0.004.006	0.004.000	
0410	646. 0883. S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH	LF	8, 334. 000	8, 334. 000	
0420	652. 0235	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	LF	190. 000	190. 000	
0430	690. 0250	SAWING CONCRETE	LF	2, 732. 000	2, 732. 000	
0440	SPV. 0085	SPECIAL O1. CRACK SEALING	LB	268, 896. 000	268, 896. 000	
0450	SPV. 0105	SPECIAL 01. SURVEY PROJECT	LS	1. 000	1. 000	

E

PAVEMENT ITEMS

455.0605 465.0105

0.6 15

STAT	ION	LOCATION	TACK COAT GAL	ASPHALTIC SURFACE TON
-				_
262+50 -	267+00	IH 94 EB OUTSIDE	2.5	17
268+50 -	270+00	IH 94 EB OUTSIDE	0.9	6
287+00 -	293+20	IH 94 WB OUTSIDE	3.5	24
308+00 -	309+90	IH 94 MEDIAN	2.2	15
329+50 -	333+50	IH 94 WB OUTSIDE	2.3	15
387+50 -	390+50	IH 94 EB OUTSIDE	1.7	12
413+00 -	415+00	IH 94 EB OUTSIDE	1.2	8

IH 94 EB OUTSIDE

TOTAL

679+50 - 680+50

DELINEATOR ITEMS

204.0180	633.0500	633.1000
_0 1.0 100	000.000	000.1000

REMOVING
DELINEATORS DELINEATOR DELINEATOR

		AND MARKERS	REFLECTORS	BRACKETS
STATION	LOCATION	EACH	EACH	EACH
262+50 - 267+00	IH 94 EB OUTSIDE	6	6	6
268+50 - 270+00	IH 94 EB OUTSIDE	2	2	2
287+00 - 293+20	IH 94 WB OUTSIDE	4	4	4
308+00 - 309+90	IH 94 MEDIAN	2	4	2
329+50 - 333+50	IH 94 WB OUTSIDE	6	6	6
387+50 - 390+50	IH 94 EB OUTSIDE	3	3	3
413+00 - 415+00	IH 94 EB OUTSIDE	3	3	3
679+50 - 680+50	IH 94 EB OUTSIDE	1	1	1
	TOTAL	27	29	27

BARRIER ITEMS

		204.0157	416.0610	603.0105 CONCRETE	603.0205 CONCRETE	638.2102	638.4000	652.0235	690.0250
				BARRIER	BARRIER			CONDUIT RIGID	
		REMOVING		SINGLE-	DOUBLE-	MOVING	MOVING	NONMETALLIC	
		CONCRETE	DRILLED	FACED	FACED	SIGNS	SMALL SIGN	SCHEDULE 40	SAWING
		BARRIER	TIE BARS	32-INCH	32-INCH	TYPE II	SUPPORTS	3-INCH	CONCRETE
STATION	LOCATION	LF	EACH	LF	LF	EACH	EACH	LF	LF
262+50 - 267+00	IH 94 EB OUTSIDE	450	605	450					466
268+50 - 270+00	IH 94 EB OUTSIDE	150	205	150		1	1		166
287+00 - 293+20	IH 94 WB OUTSIDE	620	832	620					636
308+00 - 309+90	IH 94 MEDIAN	190	385		190	1	1	190	400
329+50 - 333+50	IH 94 WB OUTSIDE	400	539	400					416
387+50 - 390+50	IH 94 EB OUTSIDE	300	405	300					316
413+00 - 415+00	IH 94 EB OUTSIDE	200	272	200					216
679+50 - 680+50	IH 94 EB OUTSIDE	100	139	100					116
	TOTAL	2410	3382	2220	190	2	2	190	2732

PROJECT NO: 1060-20-60 HWY: IH-94 COUNTY: WAUKESHA & MILWAUKEE MISCELLANEOUS QUANTITIES SHEET:

EROSION CONTROL ITEMS

		628.1504	628.1520	628.7010 INLET	628.7020 INLET
			SILT FENCE	PROTECTION	PROTECTION
		SILT FENCE	MAINTENANCE	TYPE B	TYPE D
STATION		LF	LF	EACH	EACH
262+50 - 267+00	IH 94 EB OUTSIDE	450	450	1	
268+50 - 270+00	IH 94 EB OUTSIDE	150	150	1	
287+00 - 293+20	IH 94 WB OUTSIDE	620	620	1	
308+00 - 309+90	IH 94 MEDIAN	190	190		1
329+50 - 333+50	IH 94 WB OUTSIDE	400	400		
387+50 - 390+50	IH 94 EB OUTSIDE	300	300		
413+00 - 415+00	IH 94 EB OUTSIDE	200	200		
679+50 - 680+50	IH 94 EB OUTSIDE	100	100		
	TOTAL	2410	2410	3	1

EXCAVATION ITEMS

			205.0100	305.0120 BASE AGGREGATE
			EXCAVATION	DENSE
			COMMON	1 1/4-INCH
STAT	ION	LOCATION	CY	TON
262+50 -	267+00	IH 94 EB OUTSIDE	84	168
268+50 -	270+00	IH 94 EB OUTSIDE	28	56
287+00 -	293+20	IH 94 WB OUTSIDE	115	230
308+00 -	309+90	IH 94 MEDIAN	43	86
329+50 -	333+50	IH 94 WB OUTSIDE	75	150
387+50 -	390+50	IH 94 EB OUTSIDE	56	112
413+00 -	415+00	IH 94 EB OUTSIDE	38	76
679+50 -	680+50	IH 94 EB OUTSIDE	19	38
	-	TOTAL	458	916

TEMPORARY BARRIER ITEMS

				603.8000 CONCRETE BARRIER	603.8125 CONCRETE BARRIER	614.0905
				TEMPORARY	TEMPORARY	CRASH
				PRECAST	PRECAST	CUSHIONS
				DELIVERED	INSTALLED	TEMPORARY
STA	ATI	ON	LOCATION	LF	LF	EACH
262+50	-	267+00	IH 94 EB OUTSIDE	800	800	1
268+50	-	270+00	IH 94 EB OUTSIDE	500	500	1
287+00	-	293+20	IH 94 WB OUTSIDE	970	970	1
308+00	-	309+90	IH 94 MEDIAN	1080	1080	2
329+50	-	333+50	IH 94 WB OUTSIDE	750	750	1
387+50	-	390+50	IH 94 EB OUTSIDE	650	650	1
413+00	-	415+00	IH 94 EB OUTSIDE	550	550	1
679+50	-	680+50	IH 94 EB OUTSIDE	450	450	1
			TOTAL	5750	5750	9

PROJECT NO: 1060-20-60 HWY: IH-94 COUNTY: WAUKESHA & MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

TRAFFIC CONTROL

	TOTAL	TRAFFIC	0300 CONTROL JMS	TRAFFIC	CADES	TRAFFIC WARNING	0705 CONTROL G LIGHTS PE A	643. TRAFFIC WARNING TYP	CONTROL	643. TRAFFIC ARROW	CONTROL	TRAFFIC	0900 CONTROL GNS	643.0920 TRAFFIC CONTROL COVERING SIGNS	TRAFFIC SIGNS PO CHANG	1050 CONTROL ORTABLE GEABLE SAGE
LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	EACH	DAYS
CRACK SEALING - STAGE 1																
IH 94 OUTSIDE (WAUKESHA)	19	247	4693	7	133			26	494	2	38	10	190		4	76
IH 94 OUTSIDE (MILWAUKEE)	5	247	1235	7	35			26	130	2	10	10	50		4	20
ON RAMPS	14	10	140	5	70							13	182		2	28
CRACK SEALING - STAGE 1 SUBTO	TAL		6068		238				624		48		422			124
CRACK SEALING - STAGE 2																
IH 94 MEDIAN (WAUKESHA)	17	341	5797	7	119			73	1241	2	34	21	357		4	68
IH 94 MEDIAN (MILWAUKEE)	9	341	3069	7	63			73	657	2	18	21	189		4	36
MITCHELL BLVD AND STADIUM IC	3	20	60	2	6			20	60			4	12		2	6
CRACK SEALING - STAGE 2 SUBTO	TAL		8866		182				1898		52		546			104
BARRIER - STAGE 1																
IH 94 - OUTSIDE	23	124	2852	7	161			26	598	2	46	10	230		2	46
BARRIER - STAGE 1 SUBTOTAL			2852		161				598		46		230			46
BARRIER - STAGE 2																
IH 94 - MEDIAN	2	124	248	7	14			26	52	2	4	10	20		2	4
BARRIER - STAGE 2 SUBTOTAL			248		14				52		4		20			4
UNDISTRIBUTED			1803		60		100		317		15		122	100		28
TOTAL			19837		655		100		3489		165		1340	100		306

PROJECT NO: 1060-20-60 HWY: IH-94	COUNTY: WAUKESHA & MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET:	Е
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CRACK SEALING (WAUKESHA COUNTY)

SPV.0085.01 CRACK SEALING

		CRACK
		SEALING
LOCATION	LENGTH	LB
IH 94 WB	4,999	6670
IH 94 WB	5,000	6670
IH 94 WB	5,000	6670
IH 94 WB	5,000	6670
IH 94 WB	5,000	6670
IH 94 WB	3,620	4830
IH 94 WB	3,908	5210
IH 94 WB	2,840	3790
IH 94 WB	5,000	6670
IH 94 WB	5,000	6670
IH 94 WB	3,051	4070
STH 16	850	850
STH 164/CTH J	1,869	1870
STH 164/CTH J	1,627	1630
CTH F	2,434	2430
CTH F	1,800	1800
GOERKE'S CORNERS	4,402	4400
CTH JJ	1,824	1820
USH 18/STH 164	1,395	1400
USH 18/STH 164	1,850	1850
CTH Y	850	850
CTH O	2,751	2750
CTHO	1,878	1880
CTHO	2,105	2110
TAL		90230
	IH 94 WB IH	H 94 WB

CRACK SEALING (WAUKESHA COUNTY), CON'T

SPV.0085.01 CRACK

					SEALING		
	STA	TION	LOCATION	LENGTH	LB		
	164+50 -	200+00	IH 94 EB	3,550	4730		
	200+00 -	250+00	IH 94 EB	5,000	6670		
	250+00 -	300+00	IH 94 EB	5,000	6670		
	300+00 -	350+00	IH 94 EB	5,000	6670		
	350+00 -	400+00	IH 94 EB	5,000	6670		
	400+00 -	436+20	IH 94 EB	3,620	4830		
	471+42 -	510+50	IH 94 EB	3,908	5210		
	521+60 -	550+00	IH 94 EB	2,840	3790		
	550+00 -	600+00	IH 94 EB	5,000	6670		
	600+00 -	650+00	IH 94 EB	5,000	6670		
	650+00 -	680+50.77	IH 94 EB	3,051	4070		
	OFF-	RAMP	STH 164/CTH J	1,924	1920		
ON-RAMP			STH 164/CTH J	STH 164/CTH J 2,057 20			

ON-RAMP	STH 164/CTH J	2,057	2060
OFF-RAMP	CTH F	1,603	1600
ON-RAMP	CTH F	2,016	2020
OFF-RAMPS	USH 18 WB/ CTH JJ	3,469	3470
ON-RAMPS	USH 18 EB/ CTH Y	5,454	5450
OFF-RAMP	CTH O	2,752	2750
ON-RAMPS	CTHO	5,316	5320
EASTBOUND SUBTOT	AL		87,240

UNDISTRIBUTED	35,494
WAUKESHA COUNTY SUBTOTAL	212.964

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PROJECT NO: 1060-20-60 HWY: IH-94 COUNTY: WAUKESHA & MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

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SHEET:

CRACK SEALING (MILWAUKEE COUNTY)

STATION	LOCATION	LENGTH	SPV.0085.01 CRACK SEALING LB
295+16 - 137+00	LOCATION IH 94 WB	5,306	7070
137+00 - 157+00	IH 94 WB	2,000	2670
157+00 - 172+00	IH 94 WB	1,500	2000
172+00 - 210+50	IH 94 WB	3,850	5130
OFFRAMP	68TH ST INT	475	630
ON RAMP	HAWLEY INT	1,000	1000
OFF RAMP	HAWLEY INT	625	630
ON RAMP	MITCHELL INT	375	380
OFF RAMP	MITCHELL INT	500	500
S-W RAMP	STADIUM INT	225	230
N-W RAMP	STADIUM INT	875	880
W-S RAMP	STADIUM INT	530	530
W-N RAMP	STADIUM INT	750	750
ON RAMP	35TH ST INT	490	490
OFF RAMP	35TH ST INT	285	290
WESTBOUND SUB	TOTAL		23180
295+51 - 138+75	IH 94 EB	5,385	7180
138+75 - 147+50	IH 94 EB	875	1170
147+50 - 161+75	IH 94 EB	1,425	1900
161+75 - 175+25	IH 94 EB	1,350	1800
175+25 - 210+50	IH 94 EB	3,525	4700
ONRAMP	68TH ST INT	610	610
OFFRAMP	HAWLEY INT	725	730
ONRAMP	HAWLEY INT	750	750
OFFRAMP	MITCHELL INT	600	600
ONRAMP	MITCHELL INT	312	310
E-S RAMP	STADIUM INT	570	570
E-N RAMP	STADIUM INT	555	560
N-E RAMP	STADIUM INT	610	610
S-E RAMP	STADIUM INT	640	640
OFF RAMP	35TH ST INT	750	750
ON RAMP	35TH ST INT	550	550
EASTBOUND SUBT	OTAL		23430
UNDISTRIBUTED			9322
MILWAUKEE COUN	TY SUBTOTAL		55932
PROJECT TOTAL			268,896

HWY: IH-94 PROJECT NO: 1060-20-60 COUNTY: WAUKESHA & MILWAUKEE MISCELLANEOUS QUANTITIES

PLOT NAME : PLOT SCALE : 1:1

FILE NAME :

PLOT BY : _____

PAVEMENT MARKING (WAUKESHA COUNTY WESTBOUND)

646.0106 *

646.0126 646.0841.S * 646.0843.S * 646.0883.S *

PAVEMENT MARKING

							GROOV	/ED WET REFL	ECTIVE
			PAVEM	ENT MARKIN	IG EPOXY	_	CONTRA	AST TAPE	TAPE
	·		4-1	NCH		8-INCH	4-11	NCH	8-INCH
		(SOLID,	(DASHED,	(DOTTED,	(SOLID,	(DOTTED,	(SOLID,	(DOTTED,	(SOLID,
		WHITE)	WHITE)	WHITE)	YELLOW)	WHITE)	WHITE)	WHITE)	WHITE)
STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF
150+01 - 200+00	IH 94 WB	3,015	-	-	5,001	-	-	435	-
200+00 - 250+00	IH 94 WB	2,608	-	-	4,702	-	-	-	-
250+00 - 300+00	IH 94 WB	4,031	-	-	5,000	-	-	-	-
300+00 - 350+00	IH 94 WB	3,661	-	-	5,007	-	-	-	-
350+00 - 400+00	IH 94 WB	4,236	-	-	4,989	-	-	-	-
400+00 - 436+20	IH 94 WB	3,599	-	-	3,610	-	-	-	-
471+42 - 510+50	IH 94 WB	3,920	-	-	3,913	-	-	-	-
521+60 - 550+00	IH 94 WB	2,300	-	-	2,799	-	-	-	-
550+00 - 600+00	IH 94 WB	2,420	-	-	4,986	-	-	-	-
600+00 - 650+00	IH 94 WB	4,991	-	-	4,996	-	-	-	-
650+00 - 680+50.77	IH 94 WB	3,307	-	-	3,307	-	-	-	-
OFF-RAMP	STH 16	850	213	-	3	-	1,214	-	-
ON-RAMP	STH 164/CTH J	1,869	75	-	695	-	2,339	-	-
OFF-RAMP	STH 164/CTH J	1,627	150	36	877	-	1,395	-	_
ON-RAMP	CTH F	2,434	_	-	994	-	1,617	-	-
OFF-RAMP	CTH F	1,800	225	153	775	-	384	-	-
WB C-D ROAD	GOERKE'S CORNERS	4,402	-	63	4,332	-	2,068	-	_
WB ON-RAMP	CTH JJ	1,824	163	-	913	-	637	-	_
WB OFF-RAMP	USH 18/STH 164	1,395	_	51	958	-	279	-	_
EB ON-RAMP	USH 18/STH 164	1,850	_	-	764	_	437	-	_
OFF-RAMP	CTH Y	850	275	45	571	_	877	_	_
ON-RAMP	CTHO	2,751	200	-	1,313	_	1,175	-	_
OFF-RAMP	CTHO	1,878	-	144	1,059	_	462	_	_
NB OFF-RAMP	CTHO	2,105	_	114	1,061	_	844	_	_
	00	63,723	1,301	606	62,625		<u> </u>		
WESTBOUND SUBTOTAL	•	20,. 20	· ·	3,255	32,020	0	13,728	435	0

CONTINUED ON NEXT PAGE

Е HWY: IH-94 SHEET: PROJECT NO: 1060-20-60 COUNTY: WAUKESHA & MILWAUKEE MISCELLANEOUS QUANTITIES

FILE NAME : PLOT DATE : PLOT NAME : _ PLOT SCALE: 1:1

PAVEMENT MARKING (WAUKESHA COUNTY EASTBOUND)

646.0106 *

646.0126 646.0841.S * 646.0843.S * 646.0883.S *

PAVEMENT MARKING
GROOVED WET REFLECTIVE

						_		/LD VVLI IILI L	
				ENT MARKIN	IG EPOXY			AST TAPE	TAPE
			4-11	VCH		8-INCH	4-11	NCH	8-INCH
		(SOLID,	(DASHED,	(DOTTED,	(SOLID,	(DOTTED,	(SOLID,	(DOTTED,	(SOLID
		WHITE)	WHITE)	WHITE)	YELLOW)	WHITE)	WHITE)	WHITE)	WHITE
STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF
164+50 - 200+00	IH 94 EB	2,491	-	-	3,501	-	-	267	-
200+00 - 250+00	IH 94 EB	2,589	-	-	4,693	-	-	-	-
250+00 - 300+00	IH 94 EB	3,577	-	-	5,000	-	-	-	-
300+00 - 350+00	IH 94 EB	4,307	-	-	4,991	-	-	-	-
350+00 - 400+00	IH 94 EB	2,940	-	-	5,008	-	-	-	-
400+00 - 436+20	IH 94 EB	3,638	-	-	3,627	-	-	-	-
471+42 - 510+50	IH 94 EB	3,896	-	-	3,903	-	-	-	-
521+60 - 550+00	IH 94 EB	2,693	-	-	2,841	-	-	-	-
550+00 - 600+00	IH 94 EB	3,057	-	-	5,008	-	-	-	-
600+00 - 650+00	IH 94 EB	4,807	-	-	5,002	-	-	-	-
650+00 - 680+50.77	IH 94 EB	3,310	-	-	3,310	-	-	-	-
OFF-RAMP	STH 164/CTH J	1,924	200	-	891	-	1,884	-	-
ON-RAMP	STH 164/CTH J	2,057	125	-	676	-	1,261	-	-
OFF-RAMP	CTH F	1,603	125	42	811	-	1,045	-	486
ON-RAMP	CTH F	2,016	50	-	534	-	1,372	-	418
OFF-RAMPS	USH 18 WB/ CTH JJ	3,469	25	63	2,333	-	1,062	-	1,040
ON-RAMPS	USH 18 EB/ CTH Y	5,454	338	57	2,863	42	3,675	102	556
OFF-RAMP	CTHO	2,752	200	297	1,347	-	363	-	324
ON-RAMPS	CTHO	5,316	400	9	4,193	-	1,902	-	803
		61,896	1,463	468	60,532	_			
ASTBOUND SUBTOTAL			124	,359		42	12,564	369	3,627
AUKESHA COUNTY TOTA	AL		252	2,614		42	26,292	804	3,627

PROJECT NO: 1060-20-60 HWY: IH-94 COUNTY: WAUKESHA & MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

PAVEMENT MARKING (MILWAUKEE WESTBOUND)

PAVEMENT MARKING (MILWAUKEE EASTBOUND)

295+16 - 137+00 295+37 - 307+75 307+75 - 323+50 323+50 - 328+15 330+00 - 145+60 137+00 - 157+00 148+50 - 160+25 150+85 - 153+85	IH 94	LF - 1,238 1,575 465 2,680 - 1,175	(YELLOW) LF 5,306 2,000	(WHITE) LF	(WHITE) LF	(WHITE) LF
295+16 - 137+00 295+37 - 307+75 307+75 - 323+50 323+50 - 328+15 330+00 - 145+60 137+00 - 157+00 148+50 - 160+25 150+85 - 153+85	IH 94 IH 94 IH 94 IH 94 IH 94 IH 94 IH 94 IH 94	- 1,238 1,575 465 2,680	5,306 - - - -	- - - - - -	- - - - - - -	- - - - -
295+37 - 307+75 307+75 - 323+50 323+50 - 328+15 330+00 - 145+60 137+00 - 157+00 148+50 - 160+25 150+85 - 153+85	IH 94 IH 94 IH 94 IH 94 IH 94 IH 94 IH 94	1,238 1,575 465 2,680	- - -	- - - - -	- - - - -	- - - -
307+75 - 323+50 323+50 - 328+15 330+00 - 145+60 137+00 - 157+00 148+50 - 160+25 150+85 - 153+85	IH 94 IH 94 IH 94 IH 94 IH 94 IH 94	1,575 465 2,680	-	- - - -	- - - -	- - -
323+50 - 328+15 330+00 - 145+60 137+00 - 157+00 148+50 - 160+25 150+85 - 153+85	IH 94 IH 94 IH 94 IH 94 IH 94 IH 94	465 2,680 -	-	- - - -	- - -	- - -
330+00 - 145+60 137+00 - 157+00 148+50 - 160+25 150+85 - 153+85	IH 94 IH 94 IH 94 IH 94 IH 94	2,680 -	- 2,000 - -	- - -	- - -	-
137+00 - 157+00 148+50 - 160+25 150+85 - 153+85	IH 94 IH 94 IH 94 IH 94	-	2,000 - -	-	-	-
148+50 - 160+25 150+85 - 153+85	IH 94 IH 94 IH 94	1,175 -	-	-	-	
150+85 - 153+85	IH 94 IH 94	-	-			-
	IH 94			-	300	-
153+85 - 157+15		-	-	-	66	-
157+00 - 169+50	II 34	_	1,250	-	-	-
160+25 - 170+35	IH 94	1,010	-	-	_	-
172+00 - 210+50	IH 94	-	3,850	-	_	-
174+00 - 191+60	IH 94	1,760	-	-	-	-
174+00 - 177+00	IH 94	-	-	-	300	-
177+00 - 190+35	IH 94	_	_	-	267	-
191+60 - 206+00	IH 94	1,440	-	-	-	-
208+00 - 210+50	IH 94	250	_	-	_	-
208+00 - 210+50	IH 94	-	_	-	250	-
	68TH ST INT	503	475	-	575	75
	HAWLEY INT	1,000	1,000	-	-	959
	HAWLEY INT	700	625	35	325	275
WESTBOUND ON RAMP M	MITCHELL INT	375	375	-	430	-
WESTBOUND OFF RAMP M	MITCHELL INT	650	500	39	875	150
S-W RAMP S	STADIUM INT	250	225	-	-	280
N-W RAMP S	STADIUM INT	850	875	113	-	625
W-S RAMP S	STADIUM INT	185	430	-	-	530
W-N RAMP S	STADIUM INT	485	105	-	-	750
WESTBOUND ON RAMP 3	35TH ST INT	475	490	-	245	235
WESTBOUND OFFRAMP 3	35TH ST INT	485	285	-	465	115
UNDISTRIBUTED		1000	1000	250	100	250
		18,551	18,791			
WESTBOUND SUBTOTAL	-		342	436	4,198	4,244

HWY: IH-94

PROJECT NO: 1060-20-60

			POXY NCH (YELLOW)	CONTRA 4-INCH (WHITE)	ST TAPE 8-INCH (WHITE)	LECTIVE TAPE 8-INCH (WHITE)
STATION	ROADWAY	LF	LF	LF	LF	LF
295+24 - 308+85	IH 94	1,361	-	-	-	-
295+51 - 138+75	IH 94	-	5,385	-	-	-
308+85 - 323+75	IH 94	1,490	-	-	-	-
323+75 - 126+25	IH 94	1,280	-	-	-	-
126+25 - 159+00	IH 94	3,272	-	-	-	-
138+75 - 147+50	IH 94	-	875	-	-	-
147+50 - 161+75	IH 94	-	1,425	-	-	-
148+90 - 156+10	IH 94	-	-	-	144	-
156+10 - 159+10	IH 94	-	-	-	300	-
159+75 - 171+00	IH 94	1,125	-	-	-	-
161+75 - 175+25	IH 94	-	1,350	-	-	-
171+00 - 194+25	IH 94	2,325	-	-	-	-
174+19 - 188+75	IH 94	-	-	-	291	-
175+25 - 210+50	IH 94	-	3,525	-	-	-
188+70 - 191+70	IH 94	-	-	-	300	-
195+50 - 204+75	IH 94	925	-	-	-	-
204+75 - 210+50	IH 94	575	-	-	-	-
EASTBOUND ONRAMP	68TH ST INT	610	610	-	402	-
EASTBOUND OFFRAMP	HAWLEY INT	757	725	34	456	31
EASTBOUND ONRAMP	HAWLEY INT	660	625	-	750	-
EASTBOUND OFFRAMP	MITCHELL INT	332	300	-	600	100
EASTBOUND ONRAMP	MITCHELL INT	430	450	-	312	82
E-S RAMP	STADIUM INT	-	-	-	570	-
E-N RAMP	STADIUM INT	-	-	-	555	-
N-E RAMP	STADIUM INT	-	-	-	610	-
S-E RAMP	STADIUM INT	70	70	-	640	-
EASTBOUND OFFRAMP	35TH ST INT	525	450	23	750	-
EASTBOUND ONRAMP	35TH ST INT	450	450	-	550	-
UNDISTRIBUTED		1000	1000	250	100	250
		17,187	17,240			
EASTBOUND SUBTOTAL		34	427	307	7,330	463
MILWAUKEE COUNTY TOT	AL	71	769	743	11,528	4,707
IKEE MISCELLANEOUS QU	JANTITIES				SHEET:	[:

COUNTY: WAUKESHA & MILWAUKEE | MISCELLANEOUS QUANTITIES

Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B11-02	CONCRETE BARRIER (DOUBLE FACED)
14B22-05A	CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)
14B22-05B	CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)
15A02-08	DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C10-10	PAVEMENT MARKINGS FOR DROP LANES FREEWAY/EXPRESSWAY
15C19-02C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-01D	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15D12-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D14-02	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D16-02	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

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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.

- ① 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)



SILT FENCE

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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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

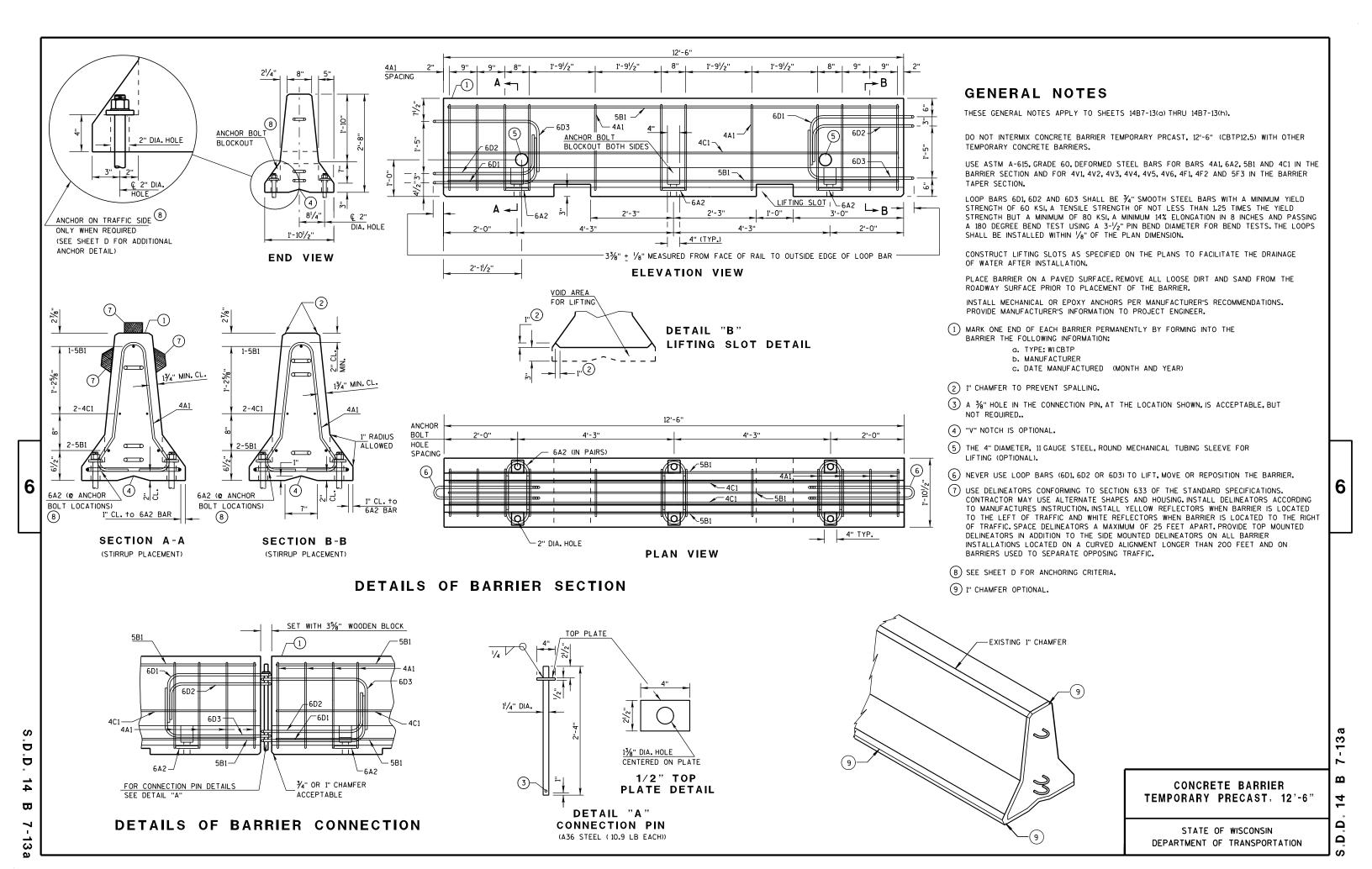
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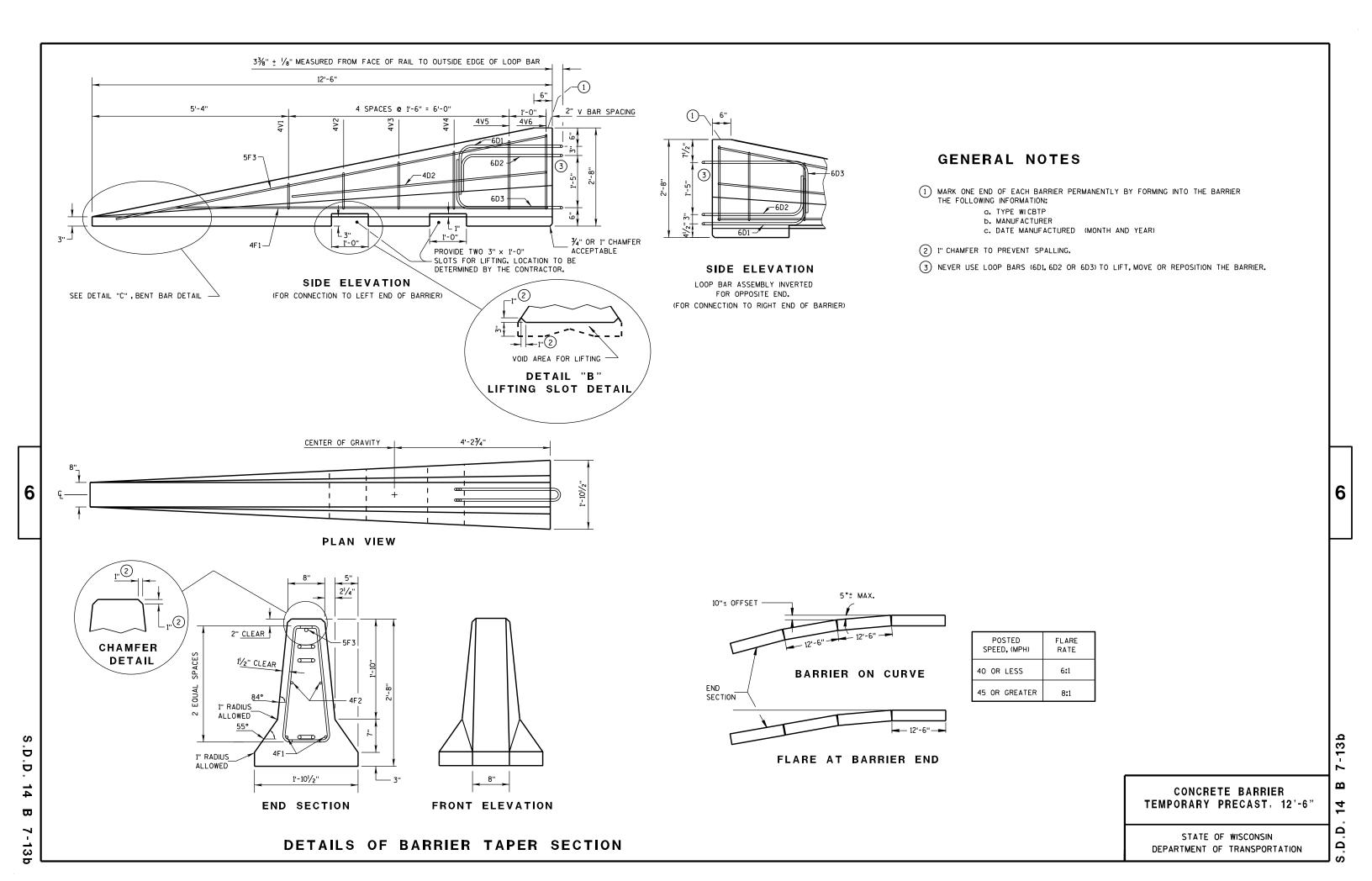
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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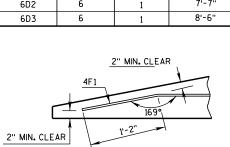
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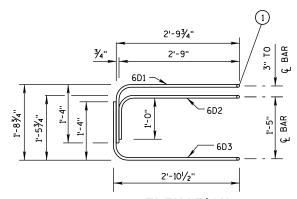


BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9''
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"

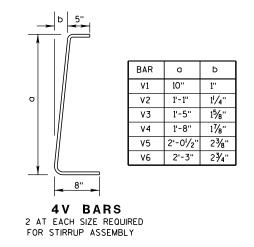


DETAIL "C"

BENT BAR DETAIL





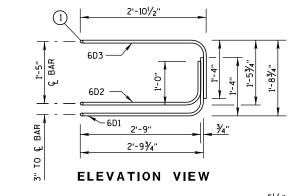


TAPER BARRIER SECTION

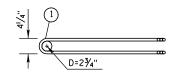
BARRIER SECTION

BILL OF MATERIALS (PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"
	4A1 6A2 5B1 4C1 L	BAR SIZE 4A1 4 6A2 6 5B1 5 4C1 4 LOOP AS 6D1 6 6D2 6	BAR BAR SIZE OF BARS 4A1 4 12 6A2 6 6 5B1 5 3 4C1 4 2 LOOP ASSEMBL 6D1 6 2 6D2 6 2

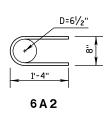


1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

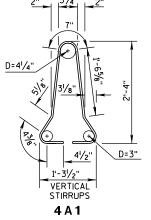


PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)



GENERAL NOTES



BARRIER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

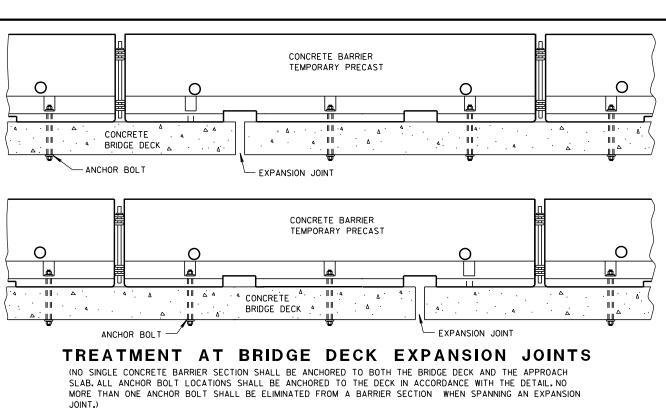
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

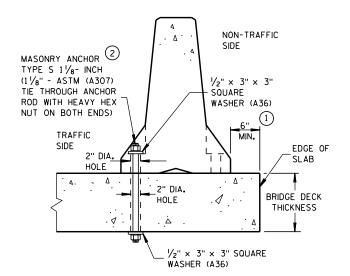
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THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

CONCRETE BARRIER TEMPORARY PRECAST MASONRY ANCHOR TYPE S 1 1/8- INCH . 🗸 $(1\frac{1}{8}" - ASTM (A307)$ ADHESIVE BONDED ANCHOR NON-TRAFFIC WITH HEAVY HEX NUT SIDE AND 1/2" X 3" X 3" SQUARE WASHER (A36)) TRAFFIC SIDE **EMBEDMENT** ablaBRIDGE DECK, APPROACH SLAB OR CONCRETE PAVEMENT

REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

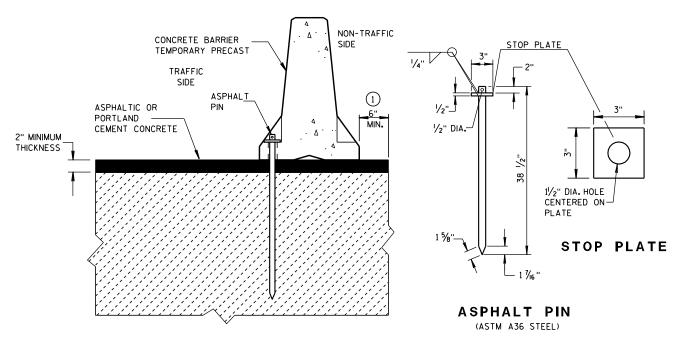
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF: THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

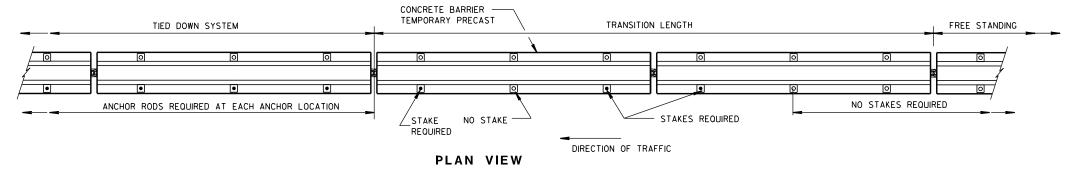
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/a-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CON-CRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

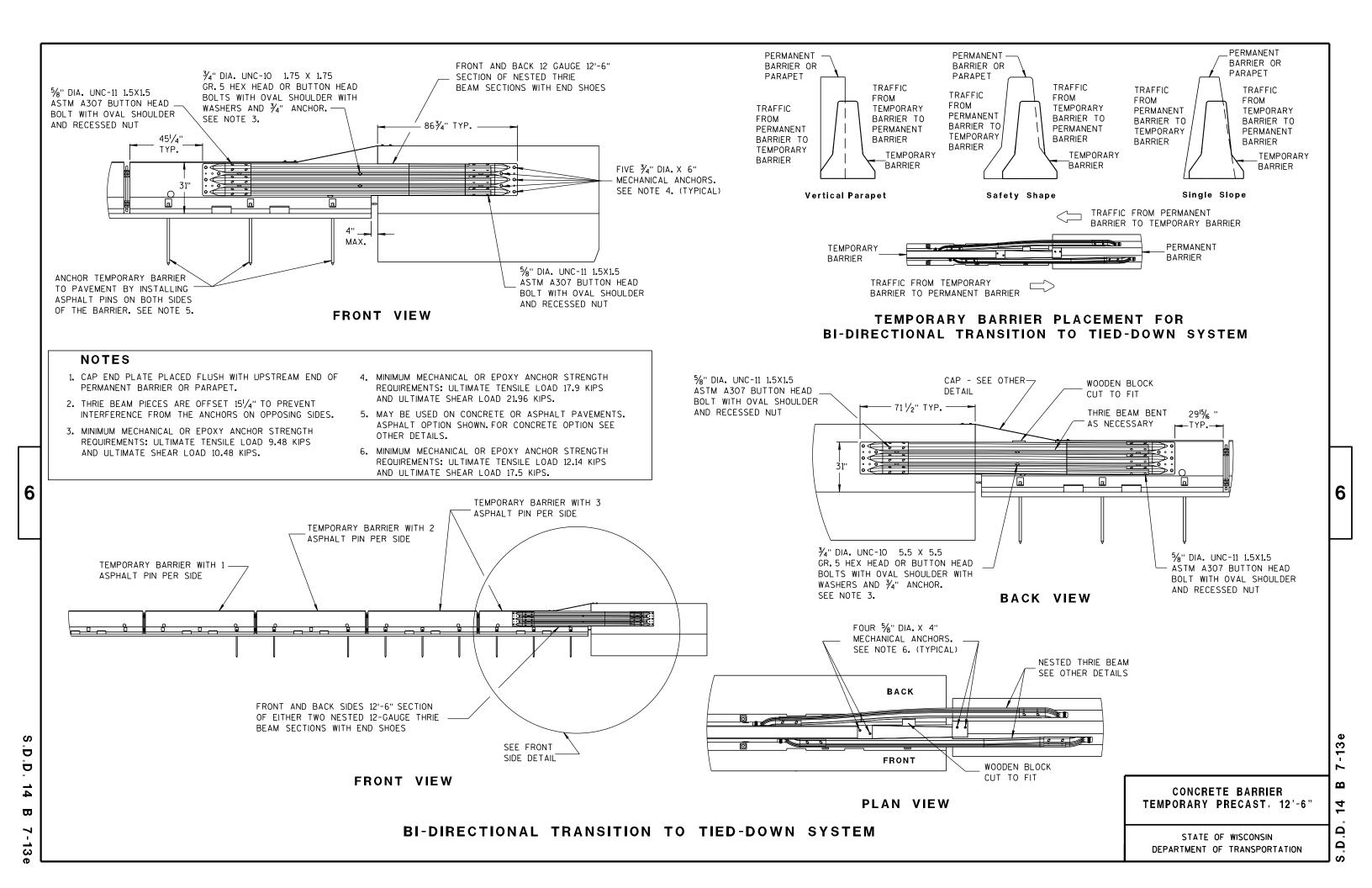
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

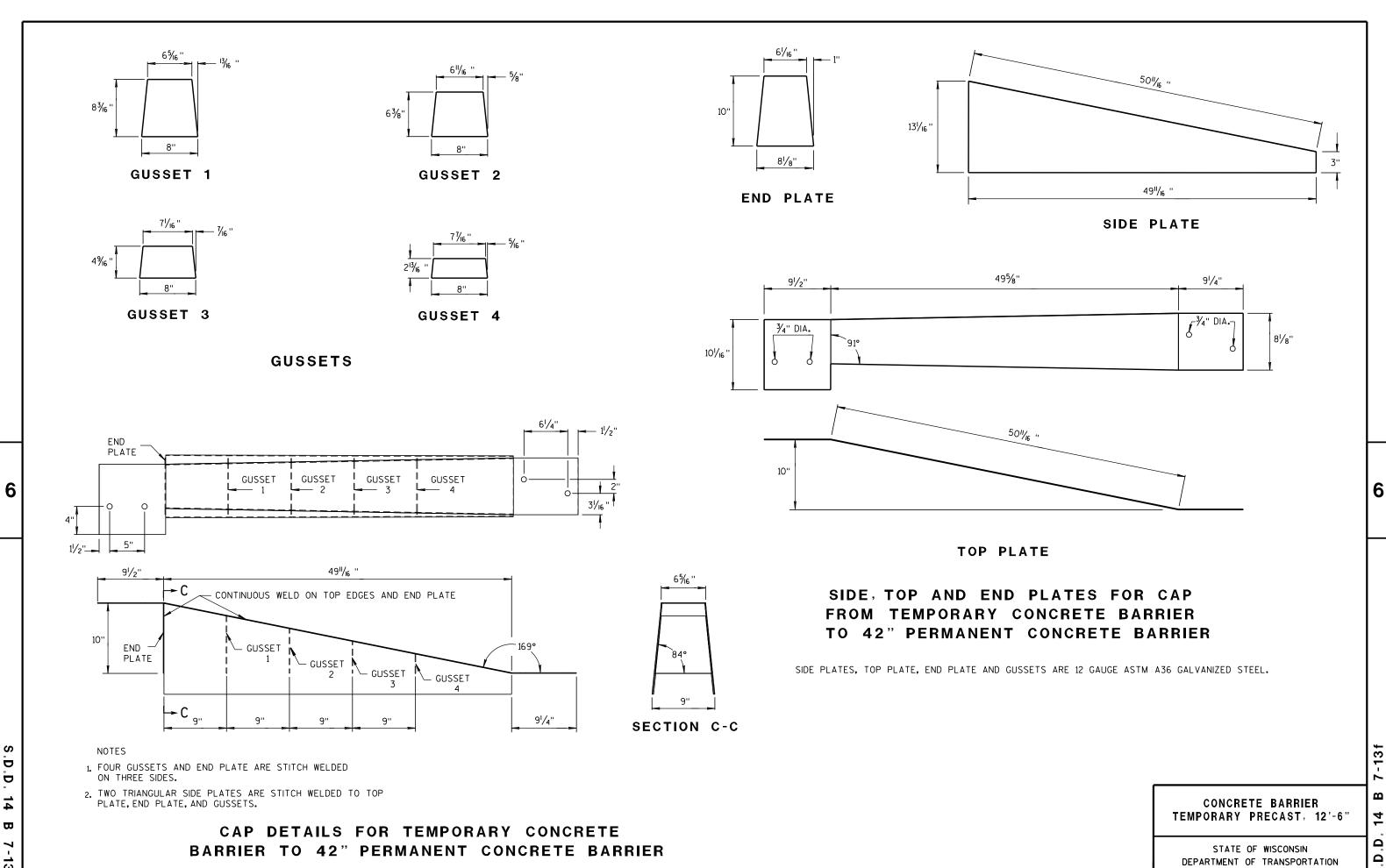
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6'

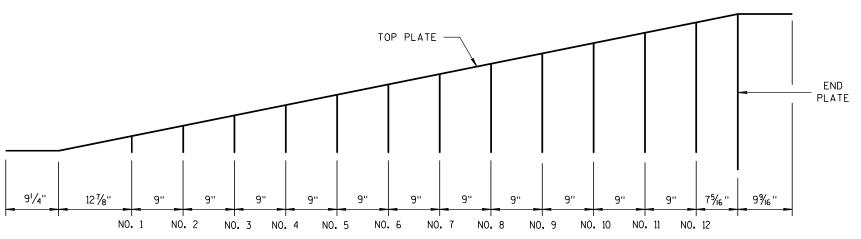
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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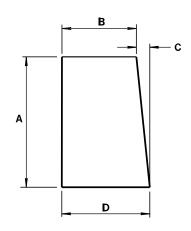






GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	Α	В	С	D
1	2 1/8"	73/4"	1/4"	8
2	4"/16 "	7%6"	1/2"	8
3	61/2"	73/8"	"/16 "	81/16 "
4	85/6"	7¾ ₆ "	7⁄8"	81/16"
5	101/8"	7''	1 1/16 "	8½ ₆ "
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16 "
7	13¾"	65⁄8''	1 1/6"	81/16"
8	15% "	6 ⅓ ₆ ''	1 % "	8½ ₆ "
9	173/8"	6 ¹ / ₄ "	1 13/16 ''	81/16"
10	193/6"	6½ ₆ "	1 15/16 ''	81/16"
11	21"	57/8"	23/6"	81/16"
12	2213/16 "	511/16 "	25/6"	81/16"

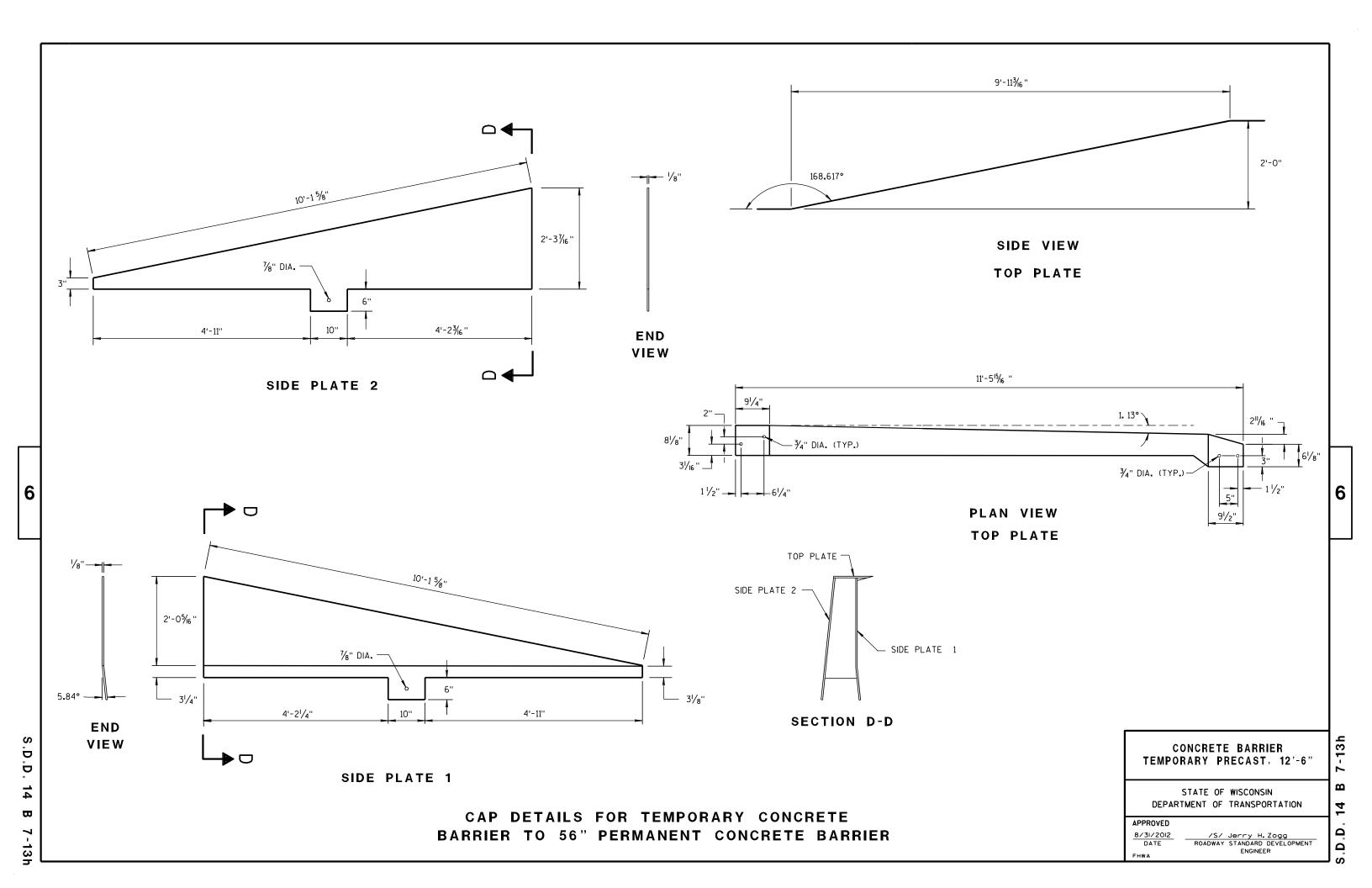
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

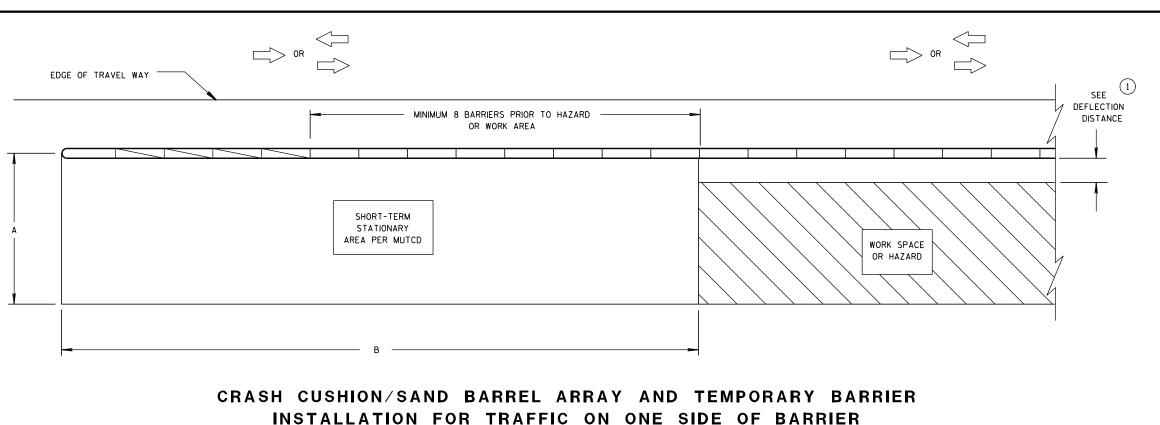
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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DIMENSION A TABLE (2)

	DIMENSION		SION A
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE 2

POSTED Speeds	DIMENSION B
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

DIRECTION OF TRAVEL

SAND BARREL ARRAY

CRASH CUSHION OR

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY

BARRIER

LEGEND

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω

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CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

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DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

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EDGE OF TRAVEL WAY -

EDGE OF TRAVEL WAY -

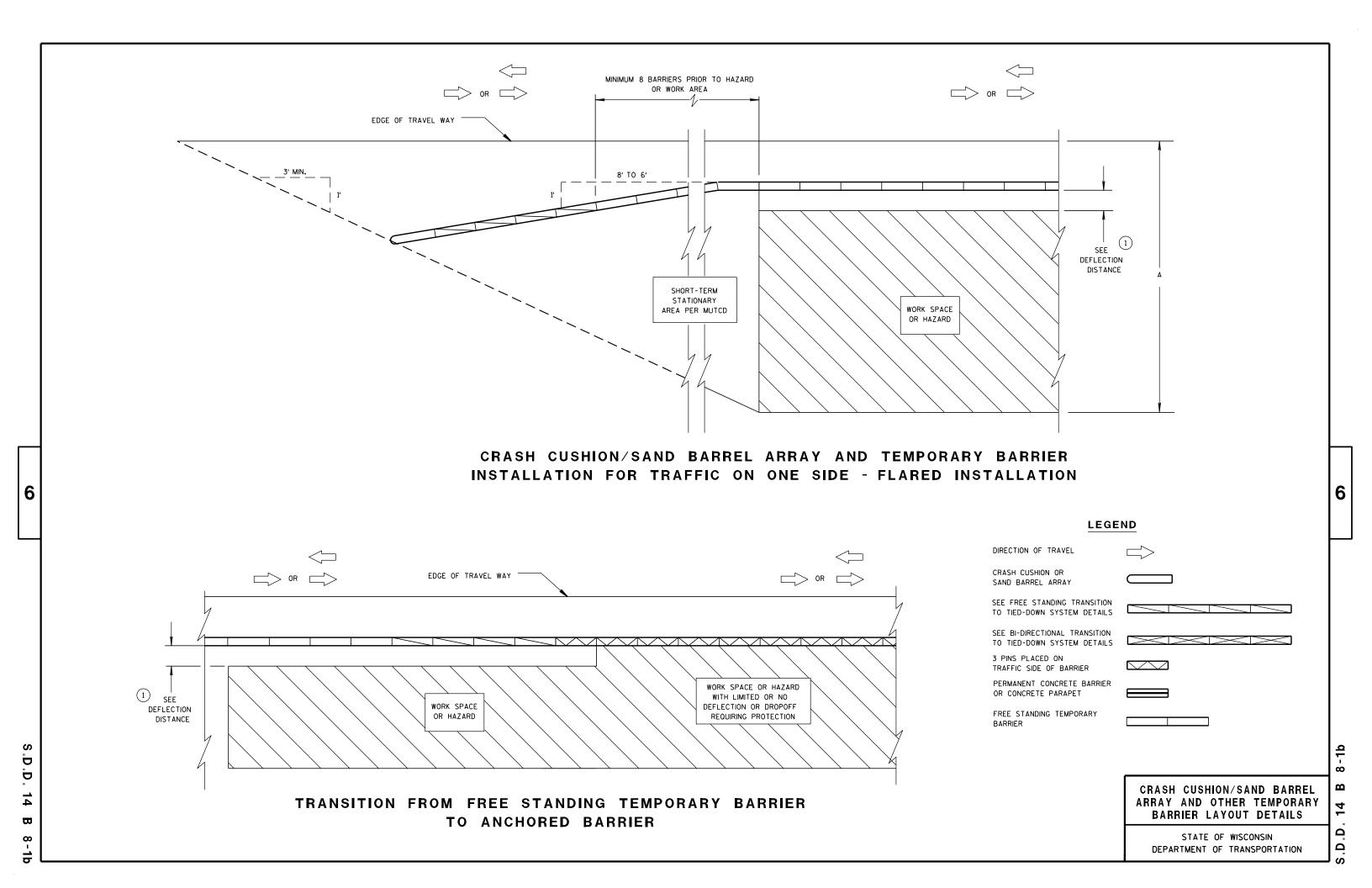
TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

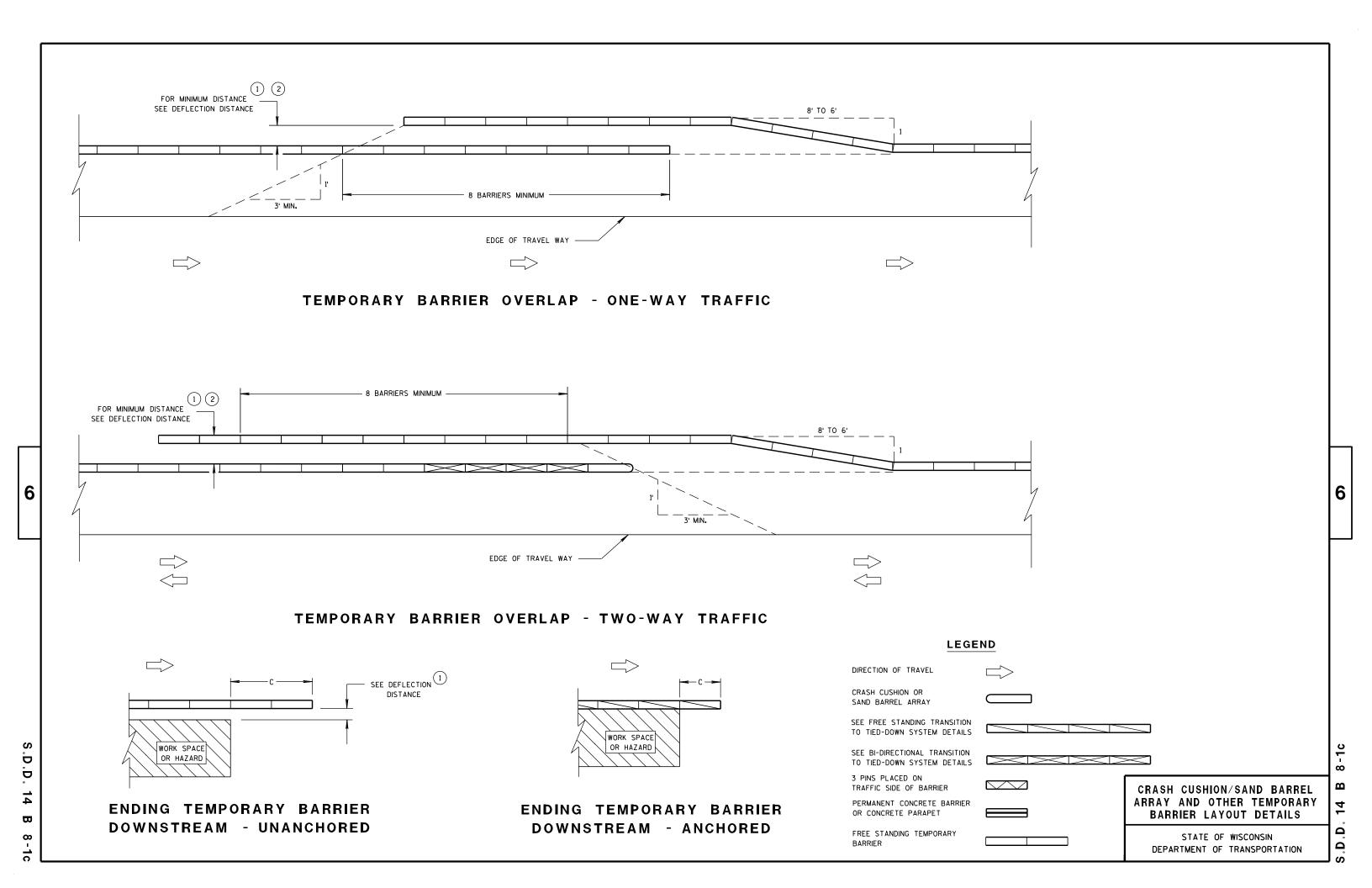
FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

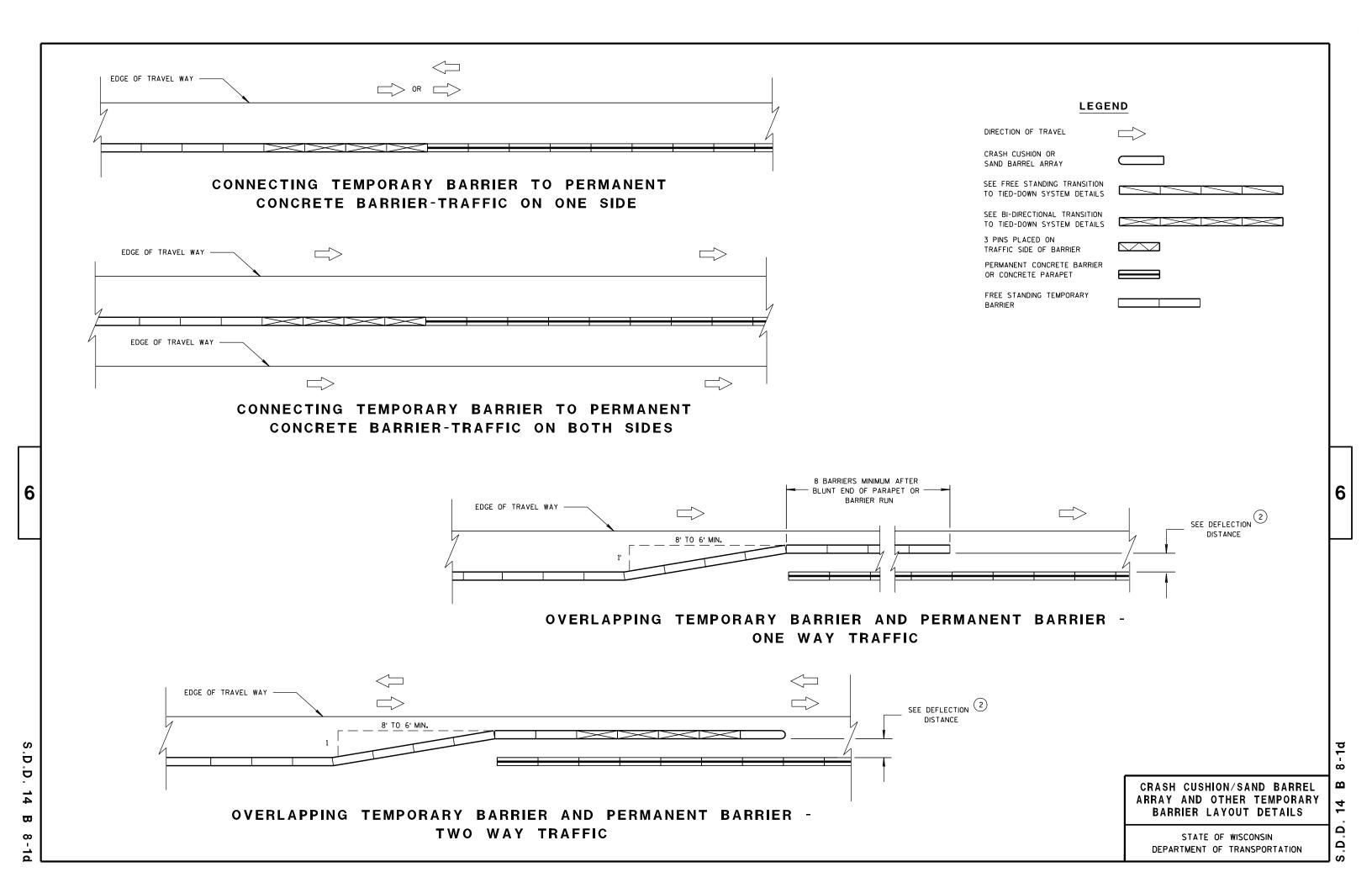
SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

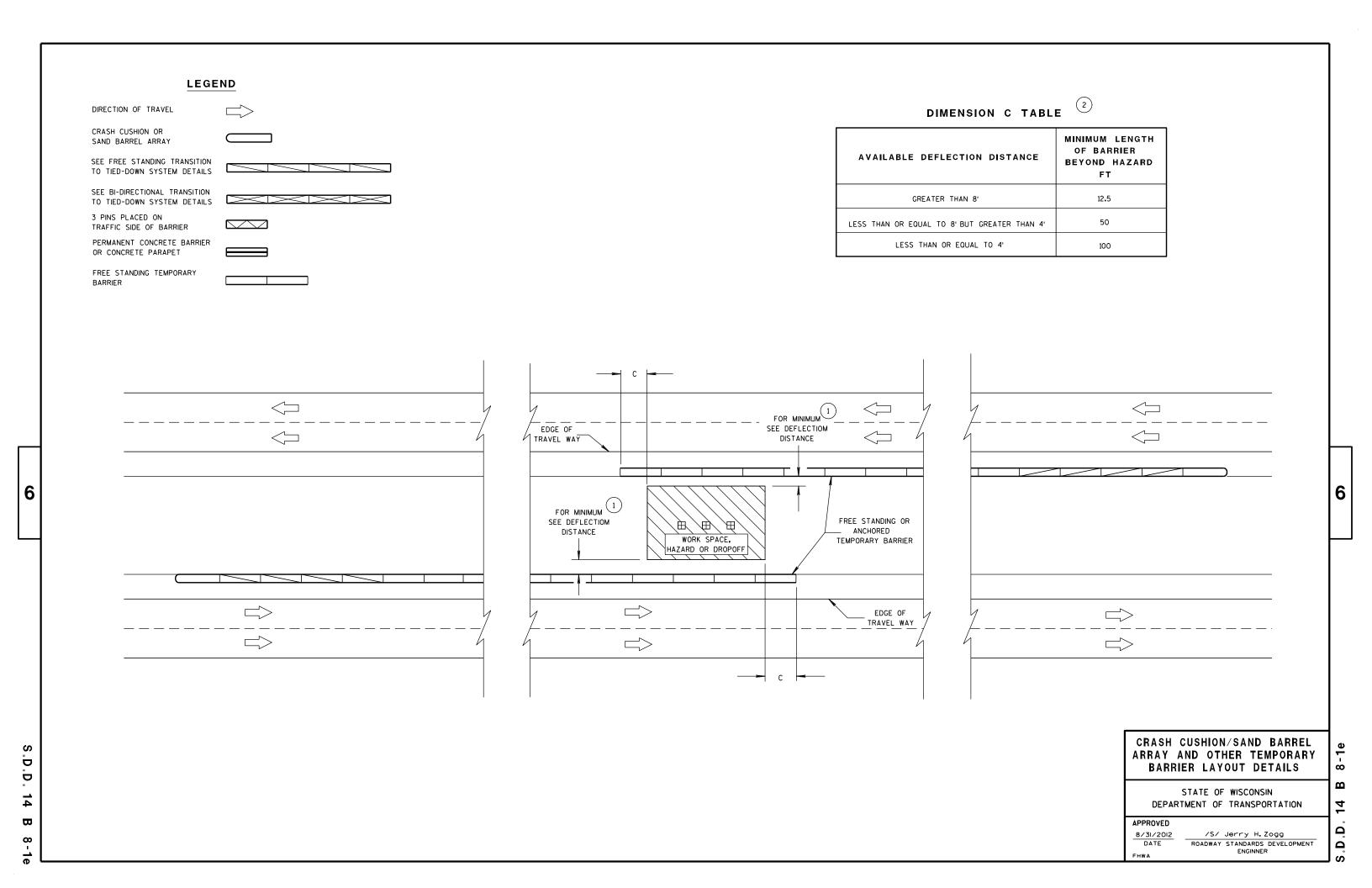
(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.





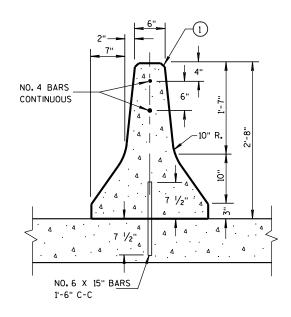




CAST-IN-PLACE

CAST-IN-PLACE
IN STEPPED MEDIAN

CONCRETE MEDIAN BARRIER WITH INTEGRAL FOOTING



CAST-IN-PLACE

CONCRETE MEDIAN BARRIER
ON NEW OR EXISTING RIGID BASE

GENERAL NOTES

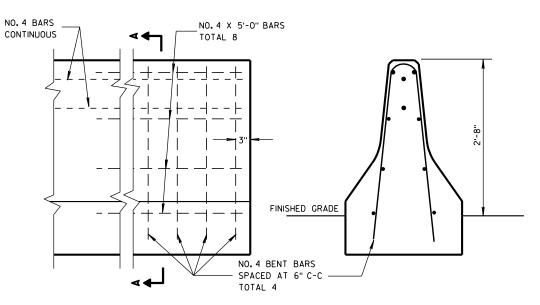
ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

SPLICES OF LONGITUDINAL BARS SHALL BE MADE WITH THE BARS LAPPED AT LEAST 18 INCHES AND FIRMLY TIED OR FASTENED TOGETHER.

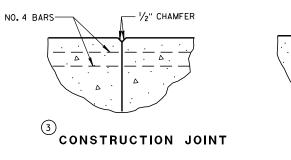
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED AT LEAST 2 INCHES.

NO.6 BARS TO ANCHOR THE BARRIERS SHALL BE EITHER INSTALLED IN THE SUPPORTING SURFACE WHEN PLACED, OR IN DRILLED HOLES USING AN EPOXY RESIN APPROVED BY THE ENGINEER.

- 1) 3/4 INCH BEVEL OR 1 INCH RADIUS (TYPICAL)
- (2) EXPANSION JOINTS SHALL BE PLACED AT EXISTING EXPANSION JOINTS IN THE PAVEMENT AND AT STRUCTURES.
- (3) NO. 4 BARS SHALL BE CONTINUED THROUGH CONSTRUCTION JOINTS.
- 4 STEM REINFORCEMENT REQUIRED AT EXPANSION JOINTS AND WHERE CONCRETE BARRIER IS TERMINATED.



SECTION A-A
STEM REINFORCEMENT AT BARRIER END
(BARRIER WITH FOOTING IS SHOWN)





— ½" CHAMFER

JOINT DETAILS

CONCRETE BARRIER (DOUBLE FACED)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/12/2010 /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 1

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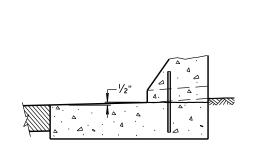
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TRANSITION DETAILS OF DOUBLE FACED TO SINGLE FACED CONCRETE MEDIAN BARRIER (FOOTINGS ARE NOT SHOWN)

PLAN VIEW

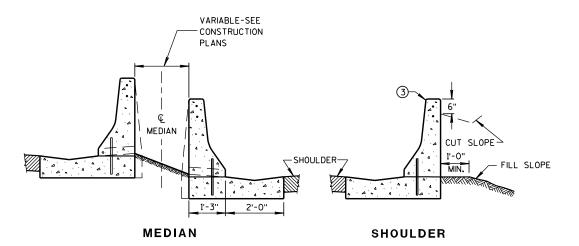


HIGH SIDE CONCRETE BARRIER DETAIL

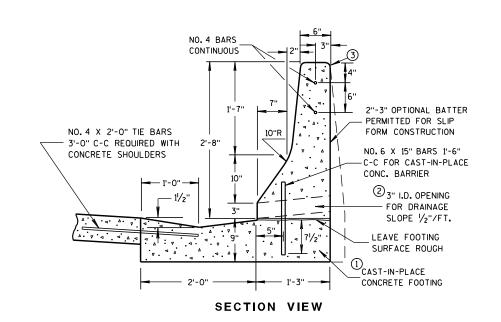
6

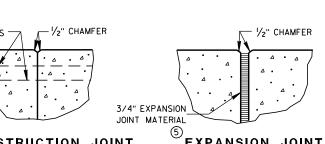
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TYPICAL APPLICATIONS





(d) CONSTRUCTION JOINT EXPANSION JOINT

JOINT DETAILS

GENERAL NOTES

SPLICES OF LONGITUDINAL BARS SHALL BE MADE WITH BARS LAPPED AT LEAST 18-INCHES AND FIRMLY TIED OR FASTENED TOGETHER.

ALL BAR STEEL REINFORCEMENT SHALL CONFORM TO REQUIREMENTS OF AASHTO M31, GRADE 60.

- 1 BARRIER SHALL BE INSTALLED ON A CONCRETE SHOULDER INSTEAD OF THE CONCRETE FOOTING WHEN SPECIFIED OR SHOWN ELSEWHERE IN CONTRACT.
- 2 OPENINGS FOR DRAINAGE SHALL BE PLACED AT LOW POINTS OF VERTICAL CURVES OR WHERE DIRECTED BY THE ENGINEER.
- (3) 3/4-INCH BEVEL OR 1-INCH RADIUS (TYPICAL).
- 4 NO. 4 BARS SHALL BE CONTINUED THROUGH CONSTRUCTION JOINTS.
- (5) EXPANSION JOINTS SHALL BE PLACED AT EXISTING EXPANSION JOINTS IN THE PAVEMENT AND AT STRUCTURES. SEE REINFORCEMENT AT BARRIER END DETAIL.
- 6 SAWED CONTRACTION JOINTS SHALL BE PROVIDED ACROSS THE FULL WIDTH OF THE BARRIER FOOTING, AND IN FRONT, TOP AND BACK FACE OF THE BARRIER AT EXISTING PAVEMENT JOINTS AND AT UNIFORM INTERVALS BETWEEN WITH A MAXIMUM SPACING OF 25 FEET.

— 1∕2" CHAMFER SAWED JOIN

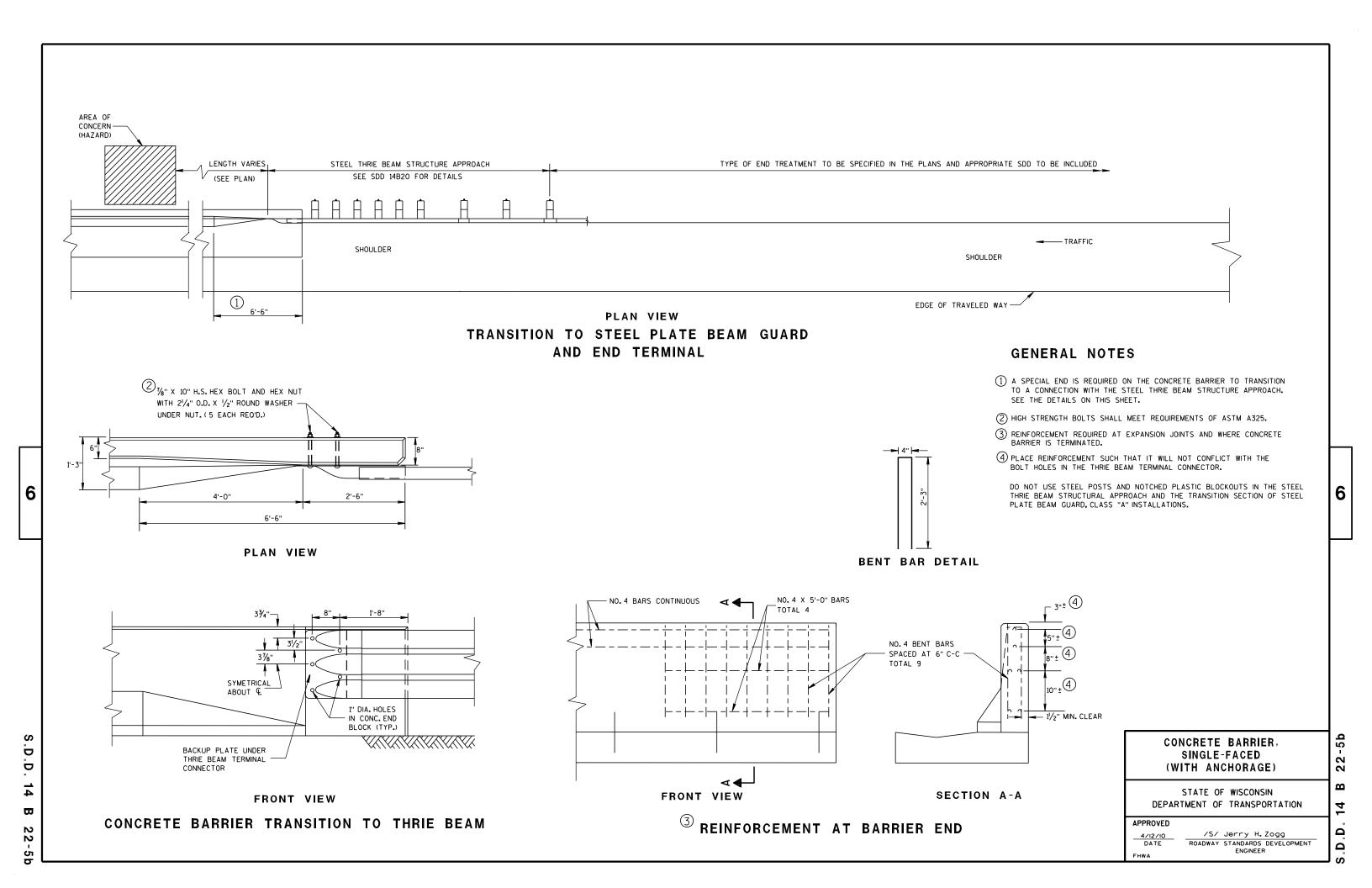
©CONTRACTION JOINT

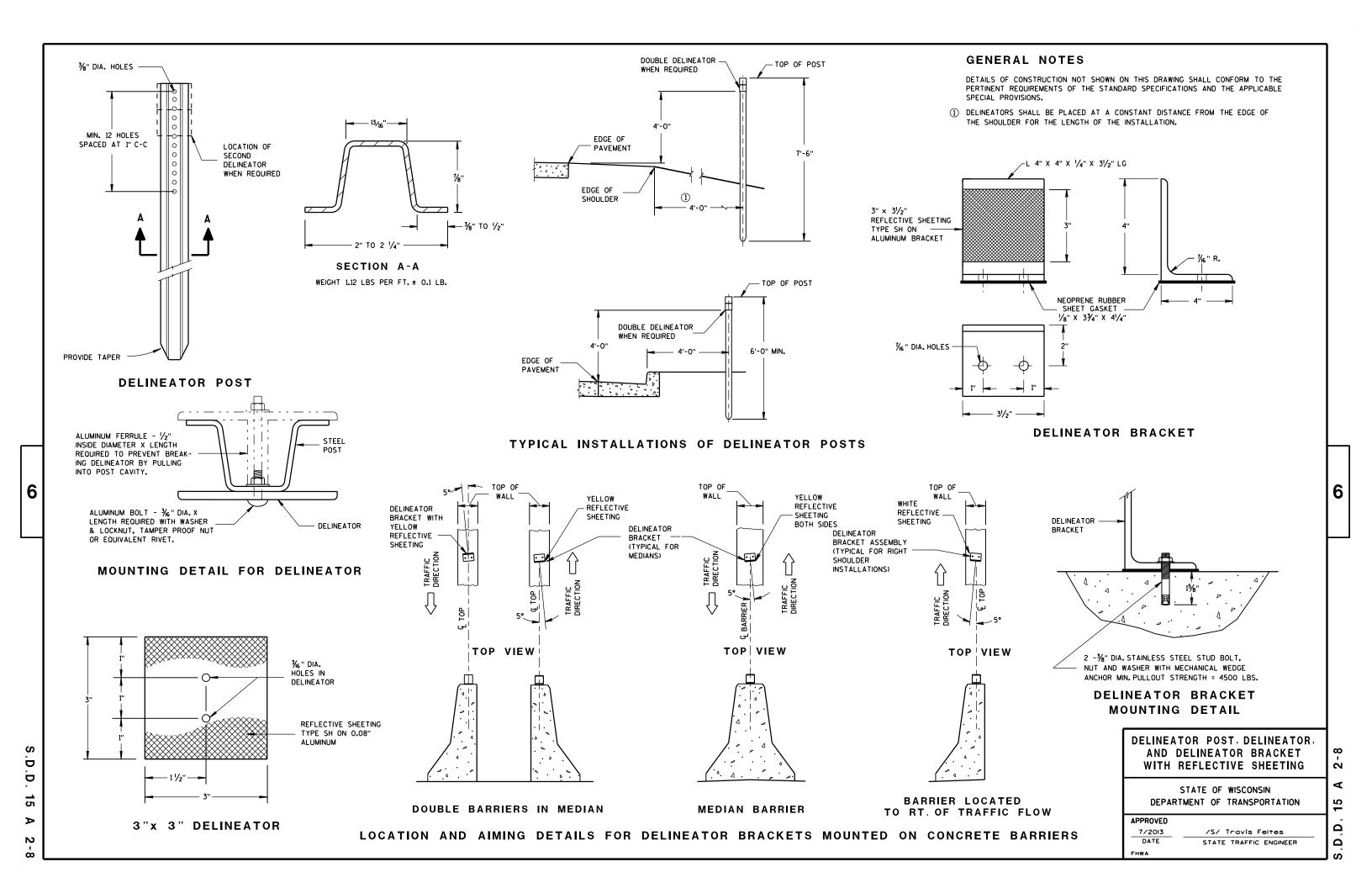
CONCRETE BARRIER SINGLE-FACED (WITH ANCHORAGE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

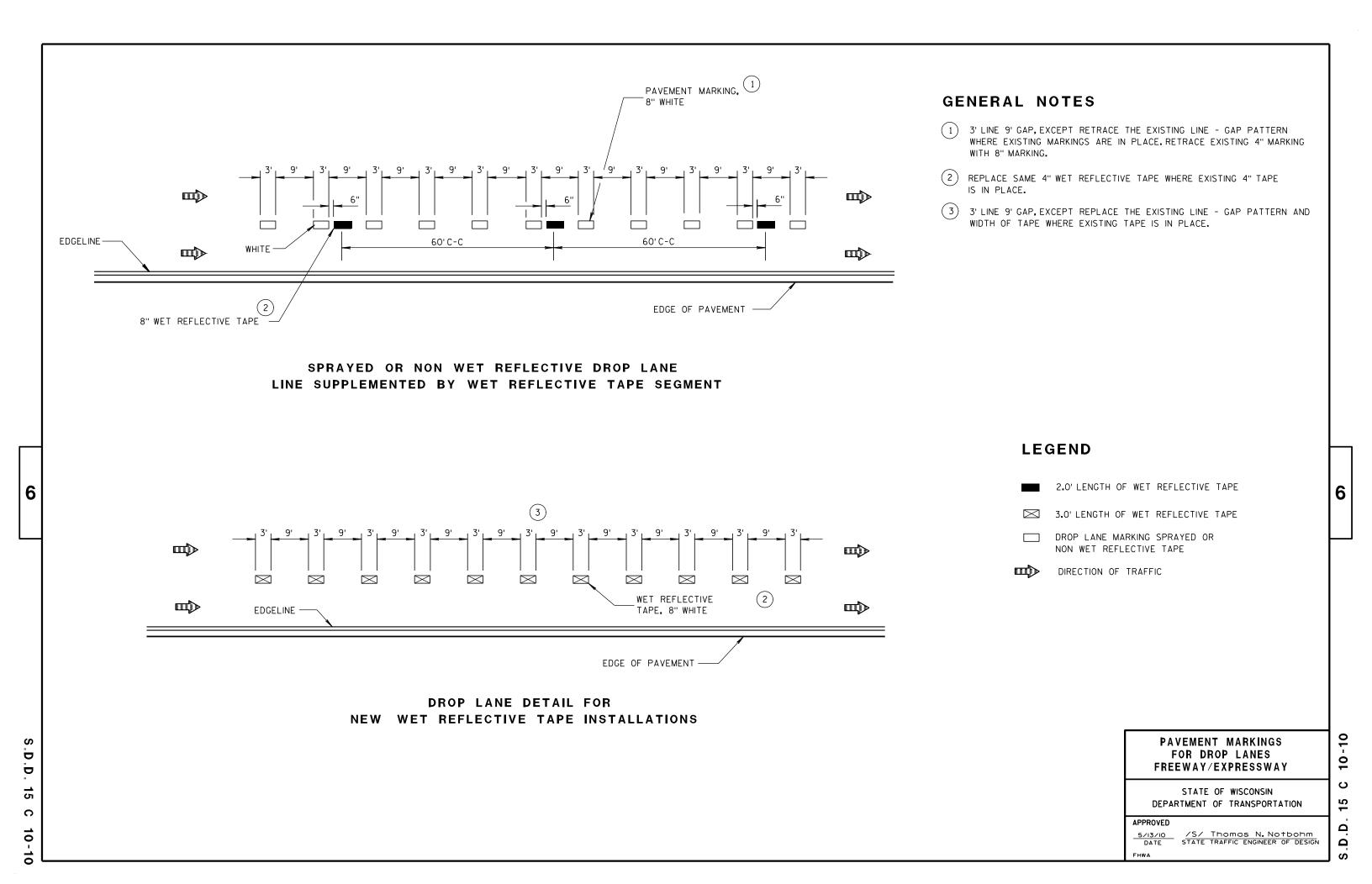
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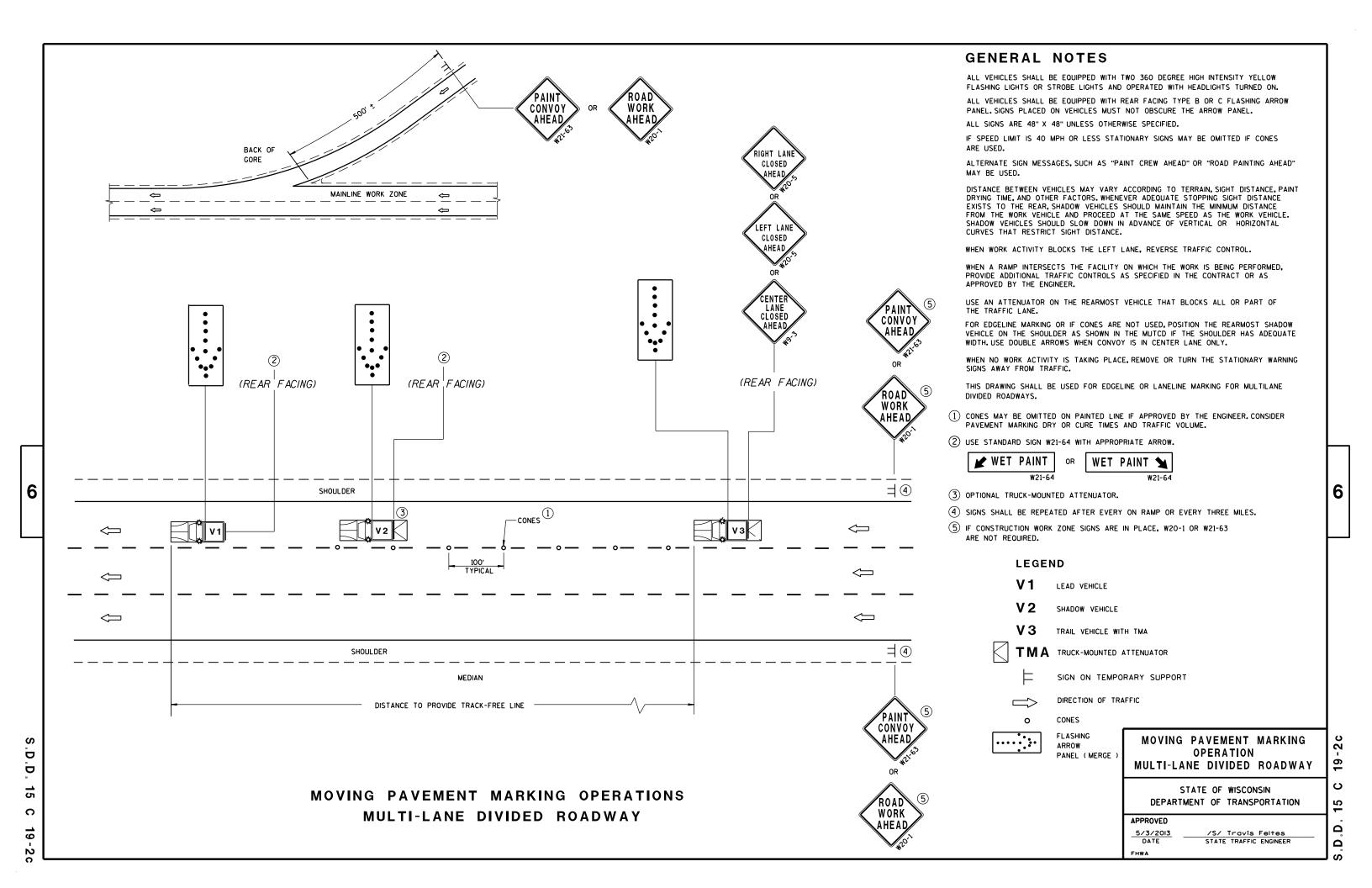
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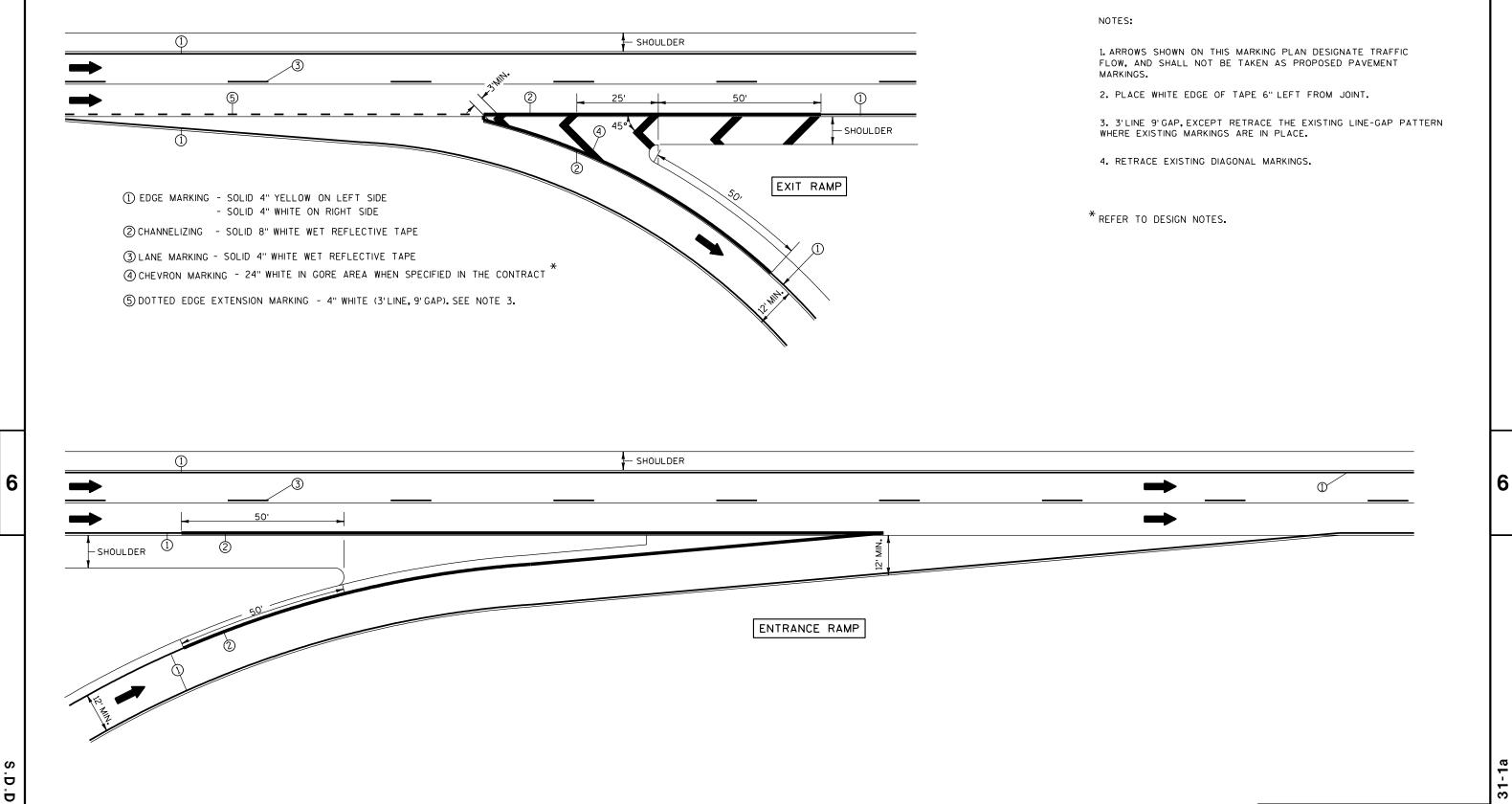










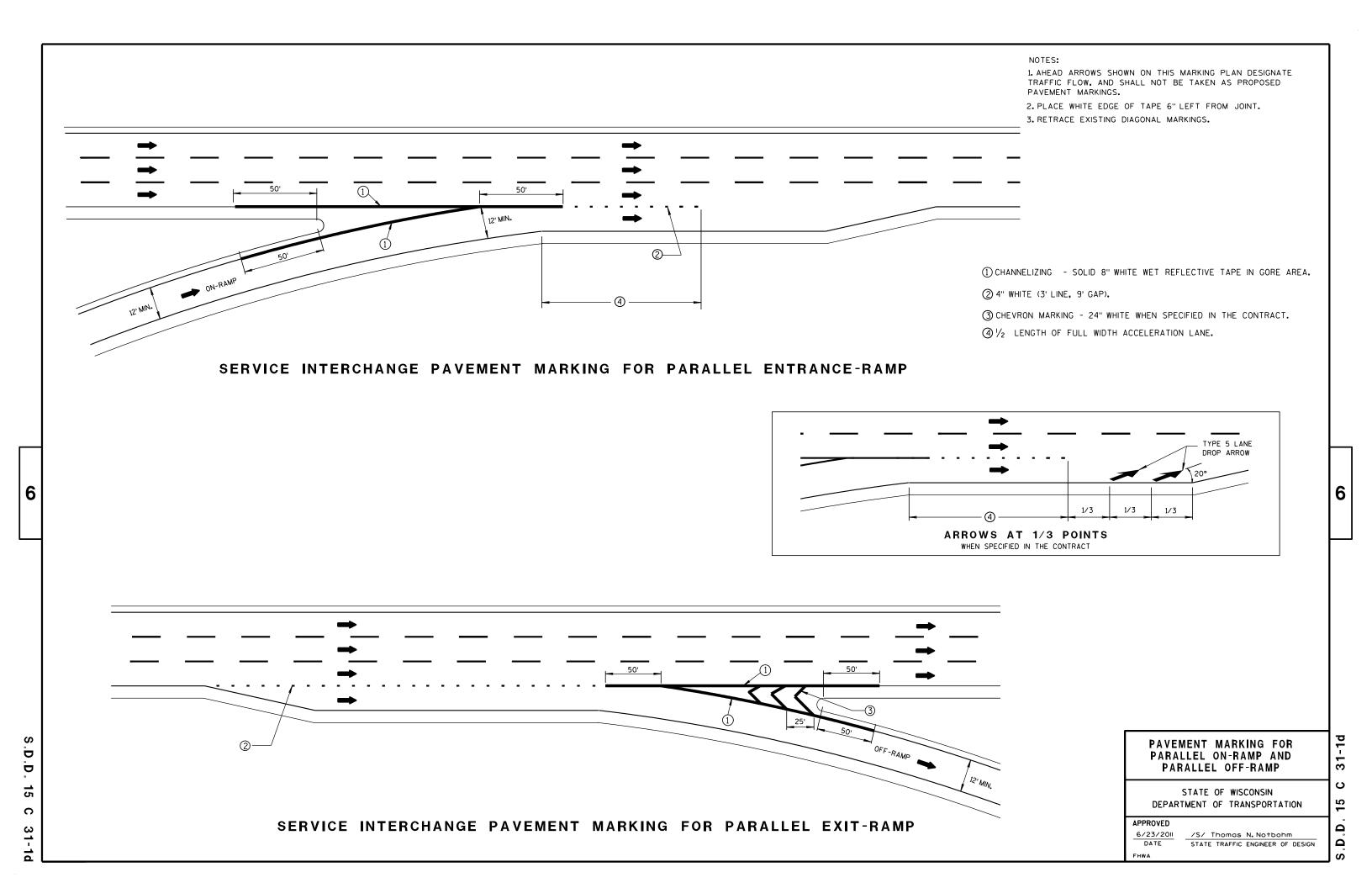


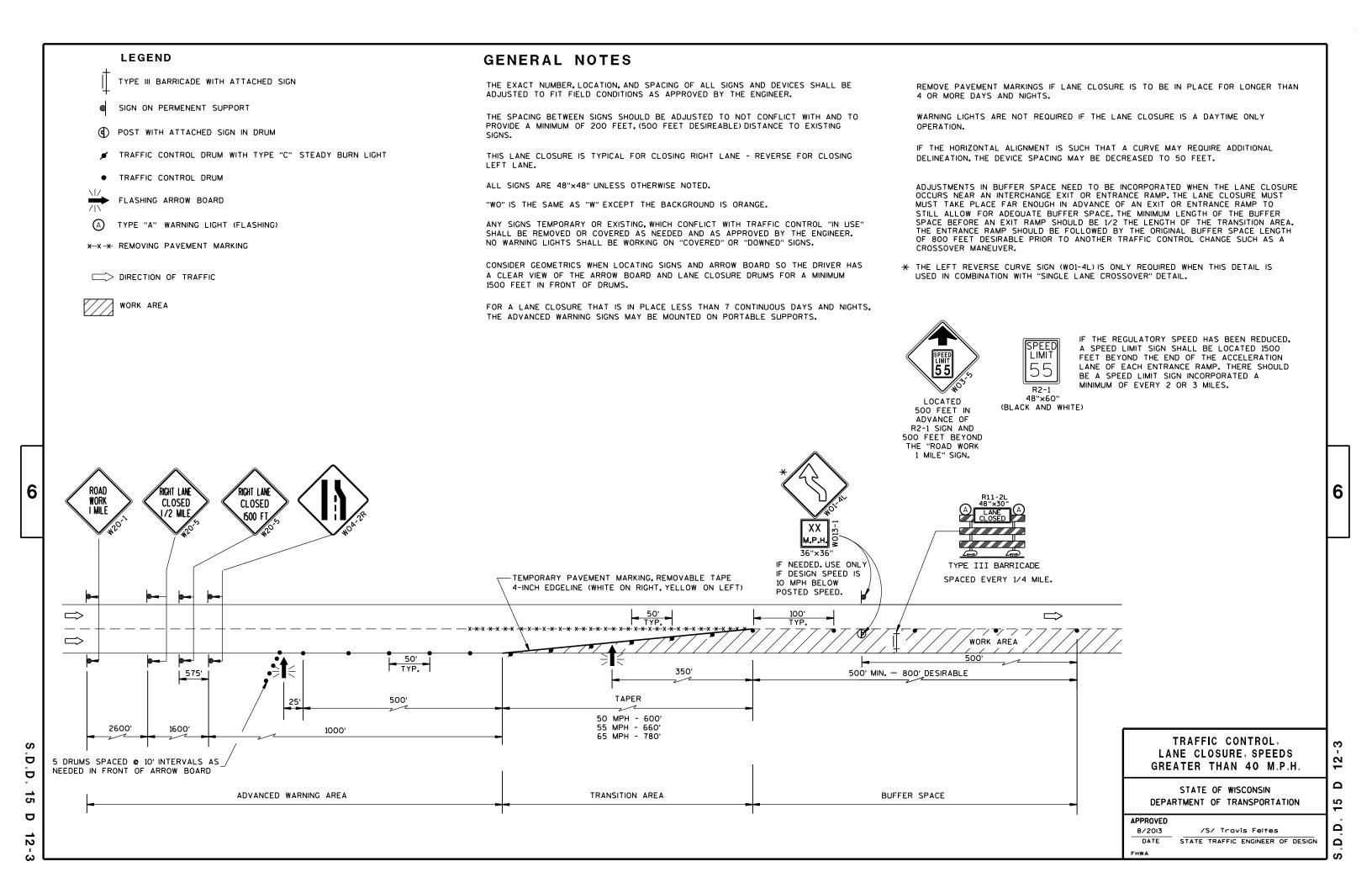
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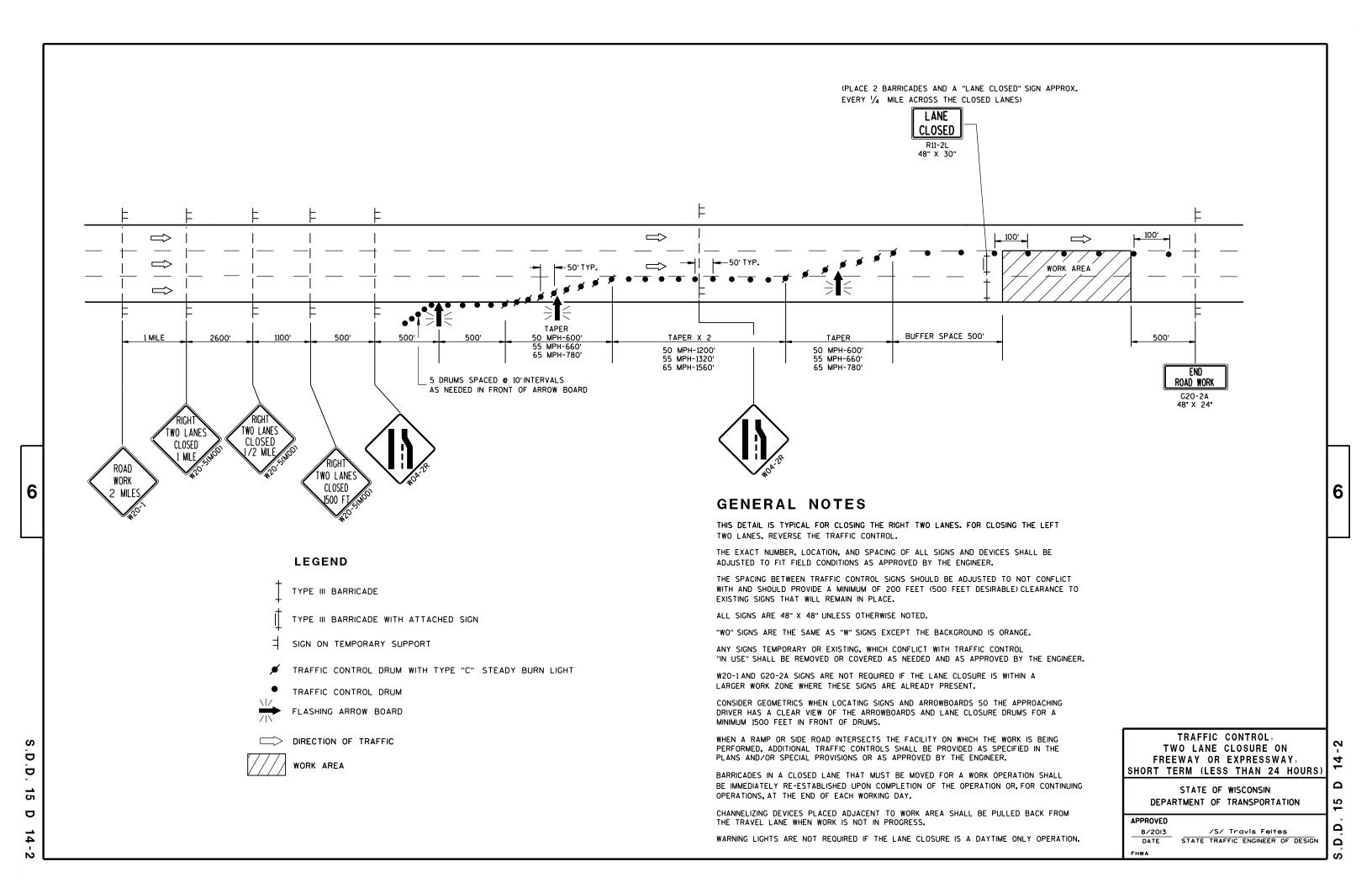
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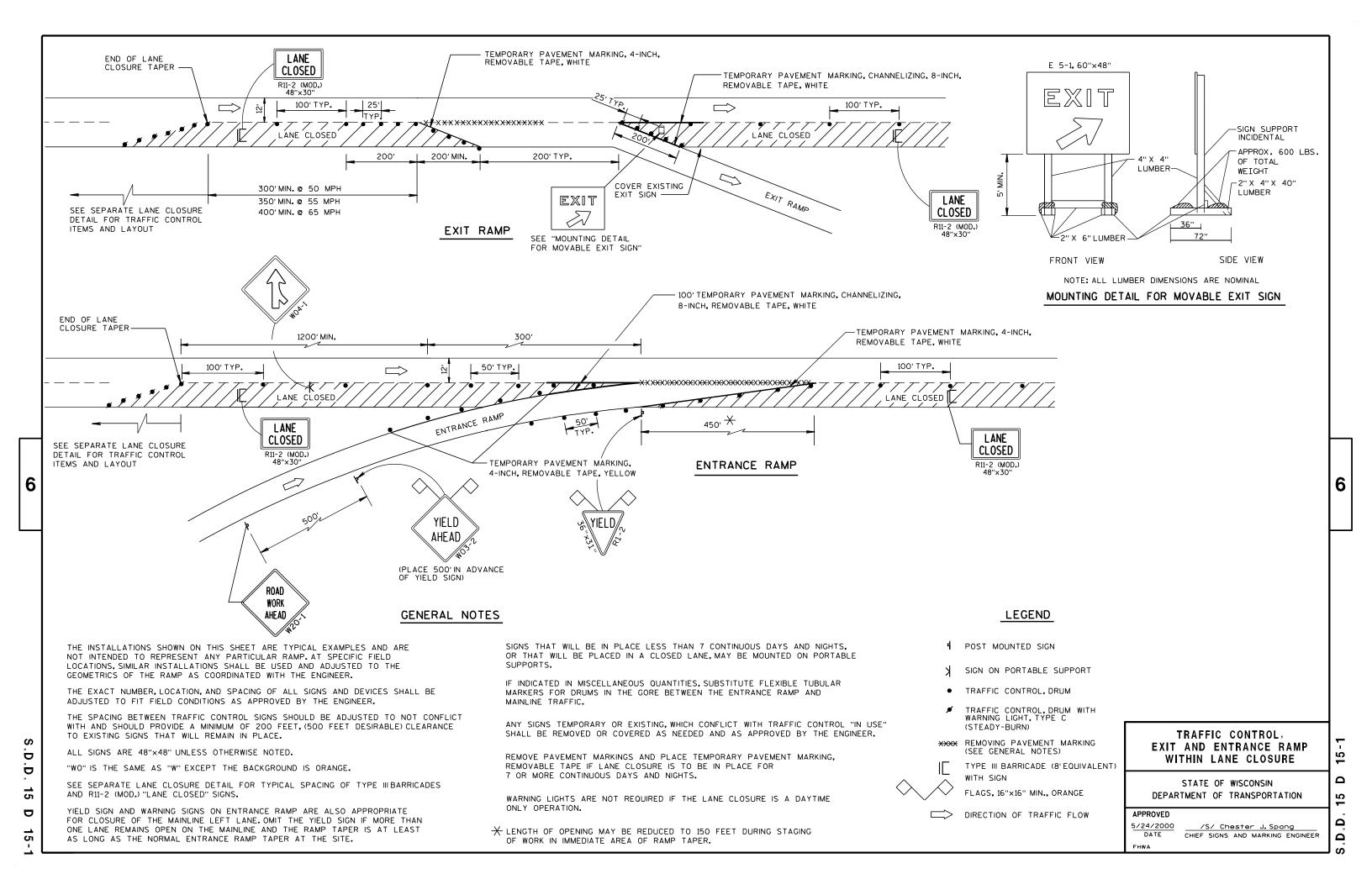
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (RAMPS AND GORES)









LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

SIGN ON PERMANENT SUPPORT

(△) TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

16

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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

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

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

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

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

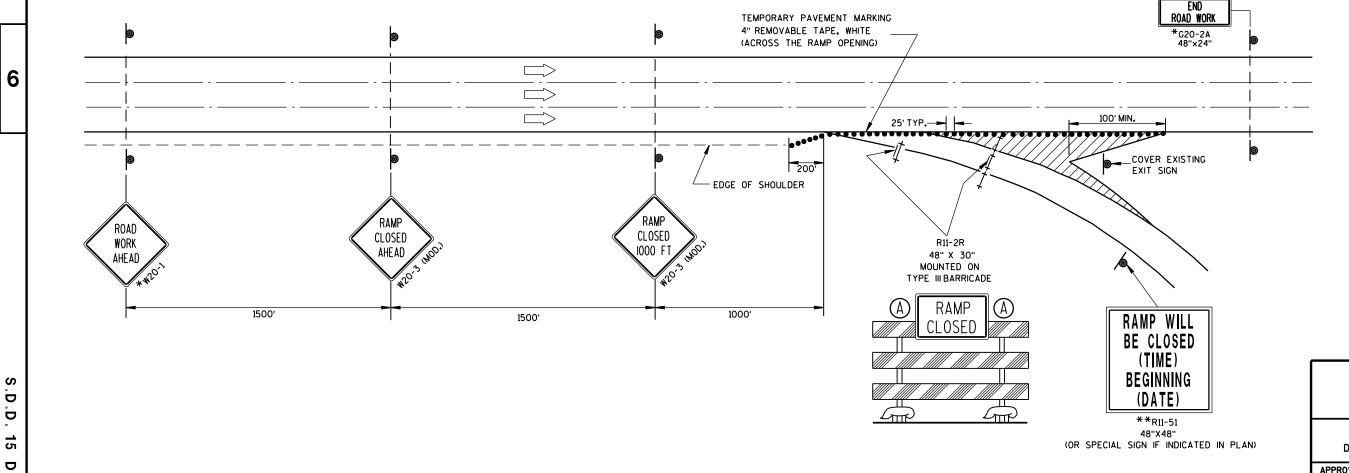
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

*W20-1AND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP WILL BE CLOSED" SIGN 10 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

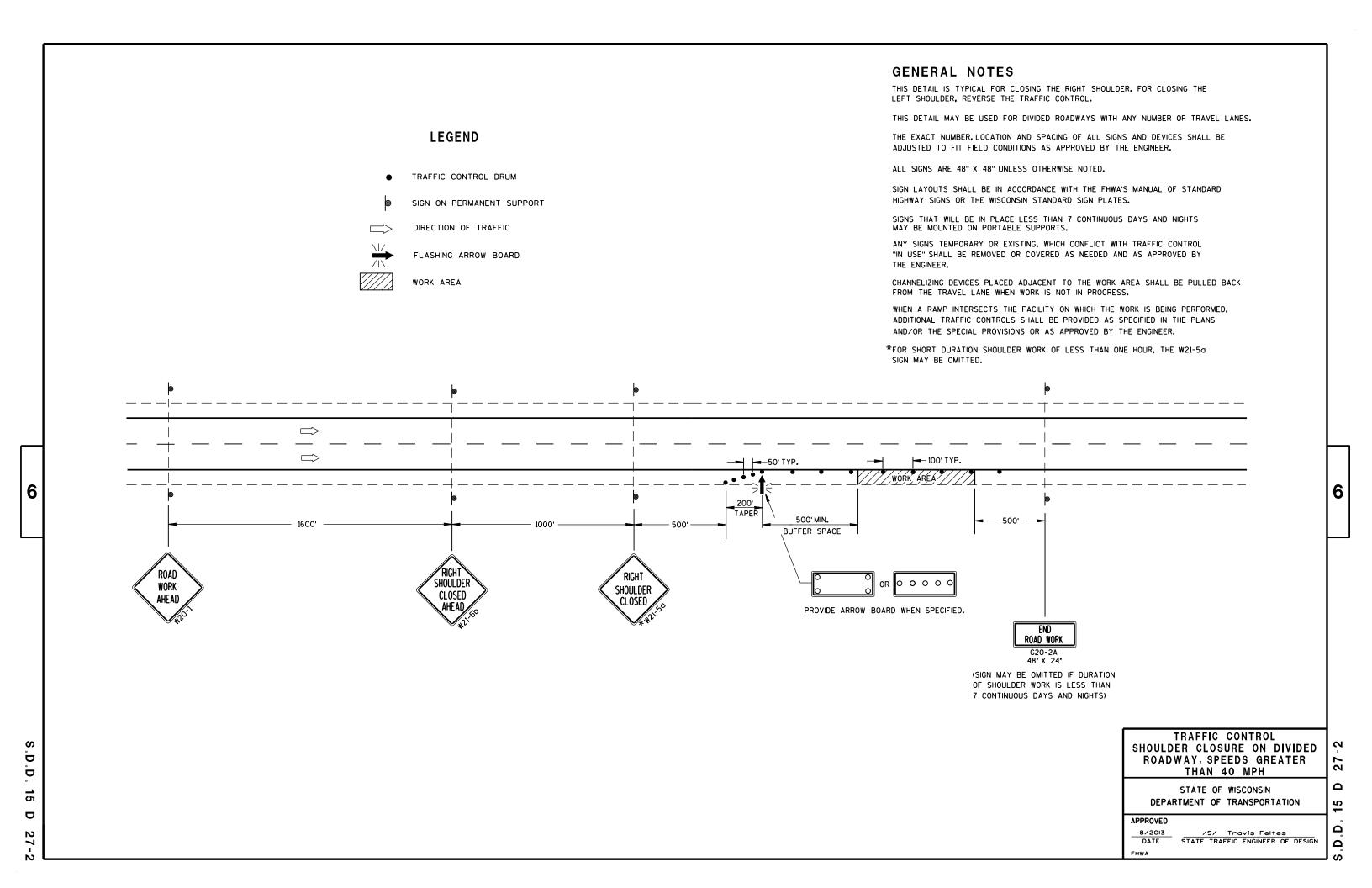
APPROVED 8/2013

B/2013

DATE

STATE TRAFFIC ENGINEER OF DESIGN
FHWA

D.D. 15 D 16





Wisconsin Department of Transportation

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