0

0  $\infty$ 

MAD NOVEMBER 2015

ORDER OF SHEETS

Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities Right of Way Plat

Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Sign Plates

Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections

TOTAL SHEETS = 62

## DESIGN DESIGNATION USH 12/18

A.A.D.T. (2011) = 118.500 A.A.D.T. (2031) = 128,300 D.H.V. (2038) = 12,158 D.D. 51,49 7.0% DESIGN SPEED 60 MPH ESALS 11,899,000

CONVENTIONAL SYMBOLS

PI AN

CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE PROPOSED JOINT LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS MARSH AREA

WOODED OR SHRUB AREA

PL + 58.1

1//////

SANITARY SEWER STORM SEWER WATER UTILITY PEDESTAL

GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES COMMUNICATION OVERHEAD COMMUNICATION UNDERGROUND ELECTRIC OVERHEAD ELECTRIC UNDERGROUND GAS

POWER POLE

TELEPHONE POLE

PROFILE

\_ LABEL \_ \_ —— с-он —— —— c-us —

Д

₫

Ø

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

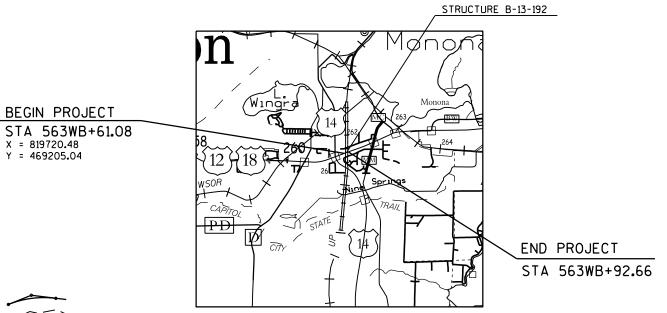
PLAN OF PROPOSED IMPROVEMENT

# MADISON, SOUTH MADISON BELTLINE

WSOR BRIDGE B-13-0192

**USH 12** DANE COUNTY

> STATE PROJECT NUMBER 1206-04-68



LAYOUT 1.0 MI.

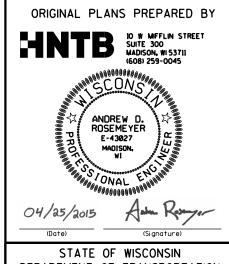
PLOT DATE: 4/25/2015

TOTAL NET LENGTH OF USH 12 MADISON BELTLINE CENTERLINE = 0.06 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (2011).

PLOT NAME:

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1206-04-68 \_



# DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	
Designer	HNTB
Project Manager	DAVID LAYTON
Regional Examiner	
Regional Supervisor	BRENDA SCHOENFELD
C.O. Examiner	

APPROVED FOR THE DEPARTMENT Brenda Schoenfeld 04/25/2015 (Signature)

PLOT BY: arosemeyer

ERIC.HEGGELUND@WISCONSIN.GOV

2

### ANR PIPELINE COMPANY - GAS/PETROLEUM

LAWRENCE HUBER
W3925 PIPELINE LN.
EDEN, WI 53019
(920) 477-2235
LAWRENCE\_HUBER@TRANSCANADA.COM

#### ATC MANAGEMENT, INC. - ELECTRICITY

DOUG VOSBERG 2489 RINDEN RD. COTTAGE GROVE, WI 53527 (608) 877-7650 OFFICE (608) 438-7650 MOBILE

#### ATC MANAGEMENT, INC. - ELECTRICITY

MR. MIKE OLSEN 801 O'KEEFE RD. P.O. BOX 6113 DEPERE, WI 54115 (920) 338-6582 MOLSEN@ATCLLC.COM

#### **CENTURYLINK CLEC - COMMUNICATION**

KYLE TOSTENSON
100 CENTURYLINK DR.
MONROE, LA 71301
(318) 417-2768
KYLE.TOSTENSON@CENTURYLINK.COM

#### CHARTER COMMUNICATIONS

MR. BRANDON STORM 2701 DANIELS ST. MADISON, WI 53718 (608) 274-3822 BRANDON.STORM@CHARTERCOM.COM

#### CITY OF MADISON ENGINEERING - COMMUNICATION

MICHAEL CHRISTOPH 1120 SAYLE ST. MADISON, WI 53715 (608) 266-9031 OFFICE (608) 395-1975 MOBILE

#### **CITY OF MADISON ENGINEERING - SEWER**

GREGORY T FRIES 210 MARTIN LUTHER KING JR BLVD. ROOM 115 MADISON, WI 53703 (608) 267-1199 GFRIES@CITYOFMADISON.COM

#### **CITY OF MADISON ENGINEERING - SEWER**

MR. ROB PHILLIPS
210 MARTIN LUTHER KING, JR. BLVD. RM. 115
MADISON, WI 53703
(608) 266-4751
RPHILLIPS@:CITYOFMADISON.COM

#### CITY OF MADISON TRAFFIC ENGINEERING COMM. & STREET LIGHTS

**UTILITY CONTACTS** 

MR. DAVID DRYER
215 MARTIN LUTHER KING, JR. BLVD.
P.O. BOX 2986
MADISON, WI 53701-2986
(608) 266-6546
DDRYER@CITYOFMADISON.COM

#### **MONONA WATER UTILITY**

DANIEL STEPHANY 5211 SCHLUTER RD. MONONA, WI 53716 (608) 222-2525 DSTEPHANY@CI.MONONA.WI.US

#### MADISON METROPOLITAN SEWERAGE DISTRICT

MR. ERIC HJELLEN 1610 MOORLAND RD. MADISON, WI 53713 (608) 222-1202 ERICH@MADSEWER.ORG

#### MADISON METROPOLITAN SEWERAGE DISTRICT

RAY SCHNEIDER 1610 MOORLAND RD. MADISON, WI 53713 (608) 222-1201 EXT 259 OFFICE (608) 347-3628 MOBILE RAYS@MADSEWER.ORG

#### **MADISON WATER UTILITY**

MR. DENNIS CAWLEY
119 E. OLIN AVE.
MADISON, WI 53713
(608) 266-4651
DCAWLEY@CITYOFMADISON.COM

#### MADISON WATER UTILITY

TAMMY BUSS 119 E OLIN AVE. MADISON, WI 53713 (608) 261-9835 OFFICE (608) 575-7658 MOBILE

## MADISON GAS & ELECTRIC - ELECTRIC

RICH PARKER 133 S BLAIR ST. MADISON, WI 53788 (608) 252-7379 OFFICE (608) 444-9619 MOBILE RPARKER@MGE.COM

#### MADISON GAS AND ELECTRIC - GAS

STEVE BEVERSDORF 133 S BLAIR ST. MADISON, WI 53788 (608) 252-1552 OFFICE (608) 444-9620 MOBILE SBEVERSDORF@MGE.COM

### MADISON GAS AND ELECTRIC

MR. TIM STATZ P.O BOX 1231 MADISON, WI 53701 (608) 252-4727 TSTATZ@MGE.COM

#### MCLEOD USA TELECOMMUNICATION SERVICES INC.

JIM KOSTUCH
13935 BISHOPS DR
BROOKFIELD, WI 53005
(262) 792-7938
JAMES.KOSTUCH@WINDSTREAM.COM

#### **OAKRIDGE SANITARY DISTRICT - SEWER**

D. RICHARD ROSE 2120 FISH HATCHERY RD. MADISON, WI 53713 (608) 210-7260 ROSER@TOWN.MADISON.WI.US

# US SIGNAL COMPANY LLC. - COMMUNICATION

CHRIS LENTINE
201 IONIA AVE, SW
GRAND RAPIDS, MI 49503
(616) 988-7194
CLENTINE@USSIGNALCOM.COM

#### WINDSTREAM KDL, INC. - COMMUNICATION

JIM KOSTUCH 13935 BISHOPS DR BROOKFIELD, WI 53005 (262) 792-7938 JAMES.KOSTUCH@WINDSTREAM.COM

#### WISCONSIN DEPT. OF TRANSPORTATION-COMMUNICATION LINE

MR. JEFF MADSON 433 W ST. PAUL AVE. SUITE 300 MILWAUKEE, WI 53203 (414) 225-3723 JEFFREY.MADSON@DOT.WI.GOV

#### WISCONSIN DEPT. OF TRANSPORTATION - COMMUNICATION

DEAN BEEKMAN 433 WEST ST. PAUL AVE. SUITE 300 MILWAUKEE, WI 53203 (414) 227-2154 OFFICE (414) 750-1811 MOBILE

## WISDOT RWIS PROGRAM COMMUNICATION TOWER

MR. MIKE ADAMS
P.O. BOX 7986 ROOM 501
MADISON, WI 53707
(608) 266-5004
MICHAEL.ADAMS@DOT.WI.GOV

# REGION CONTACT

DAVID LAYTON 2101 WRIGHT STREET MADISON, WI 53704 (608) 246-3821 DAVID.LAYTON@DOT.WI.GOV

#### DESIGN CONTACT

ANDREW ROSEMEYER

10 W MIFFLIN ST, SUITE 300

MADISON, WI 56706

(608) 294-5015

AROSEMEYER@HNTB.COM

# ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
PAVEMENT MARKINGS
TRAFFIC CONTROL
STAGE CONSTRUCTION
ALIGNMENT PLAN

PROJECT NO: 1206-04-68 HWY: USH 12 COUNTY: DANE GENERAL NOTES SHEET: **E** 

FILE NAME: I:\56537\1517-75-71\t1\cds\020101\_gn.ppt PLOT DATE : 4/20/2015 11:12:21 AM PLOT BY : HNTB Corp. PLOT NAME : 020101\_gn1 PLOT SCALE : 1:1

2

#### **GENERAL NOTES**

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES

REMOVING CONCRETE INCLUDES ANY MESH OR REINFORCEMENT THAT MAY BE PART OF THE PAVEMENT STRUCTURE. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD.

EXISTING PAVEMENT DEPTHS AND LANE WIDTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD. VERIFY WIDTHS PRIOR TO SETTING TRAFFIC CONTROL TO ENSURE PROPER LANE WIDTHS ARE ACHIEVED.

SURVEY MONUMENT LOCATIONS WILL BE AVAILBLE UPON REQUEST.

	ALIGNMENT IDENTIFIERS
B	USH 12/18 ⊞
PNE	PARK STREET NE RAMP
WB	USH 12/18 WB

#### **ABBREVIATIONS**

AEW APRON END WALL AGG AGGREGATE

BAD BASE AGGREGATE DENSE

BM BENCH MARK

C&G CURB AND GUTTER

C/L CENTER OR CONSTRUCTION LINE
CMCP CULVERT PIPE CORRUGATED METAL

CONC CONCRETE

CP CULVERT PIPE

CPRC CULVERT PIPE REINFORCED CONCRETE

CSD CONCRETE SURFACE DRAIN

CY CUBIC-YARD
D DEGREE OF CURVE

Δ DELTA

DISCH DISCHARGE

EAT ENERGY ABSORBING TERMINAL

FE FIELD ENTRANCE HMA HOT MIX ASPHALT

INV INVERT

L LENGTH OF CURVE

LHF LEFT HAND FORWARD

LT LEFT

MIN MINIMUM

M/L MATCHLINE
NB NORTHBOUN

NB NORTHBOUND NC NORMAL CROWN

PAVT PAVEMENT

PC POINT OF CURVE

PCC POINT OF COMPOUND CURVE

PE PRIVATE ENTRANCE
PI POINT OF INTERSECTION

PLE PERMANENT LIMITED EASMENT

PT POINT OF TANGENT

R RADIUS OF CURVE

R/L REFERENCE LINE

R/W RIGHT OF WAY

RC REVERSE CROWN

RCAEW APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE

REQD REQUIRED

RHF RIGHT HAND FORWARD

RO RUN OFF LENGTH

RRSP RAILROAD SPIKE RT RIGHT

SALV SALVAGED

SAPBC SALVAGED ASPHALTIC PAVEMENT BASE COARSE

SB SOUTHBOUND

SDD STANDARD DETAIL DRAWINGS

SE SUPER ELEVATION

SF SQUARE FOOT

SSPRC STORM SEWER PIPE REINFORCED CONCRETE

STA STATION

SY SQUAREYARD

T TANGENT LENGTH

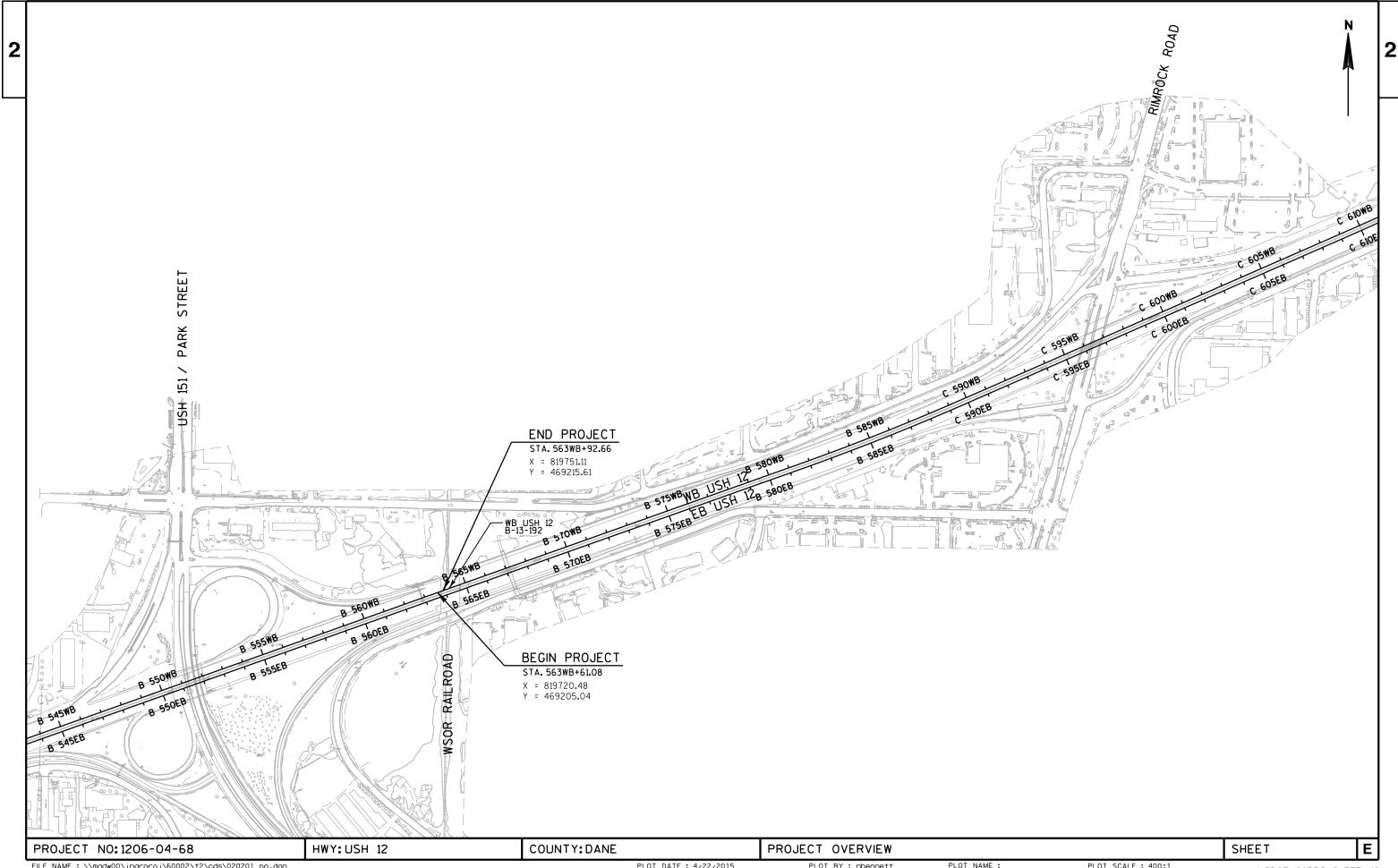
TLE TEMPORARY LIMITED EASEMENT VCL VERTICAL CURVE LENGTH

VPC POINT OF VERTICAL CURVE
VPI POINT OF VERTICAL INTERSECTION

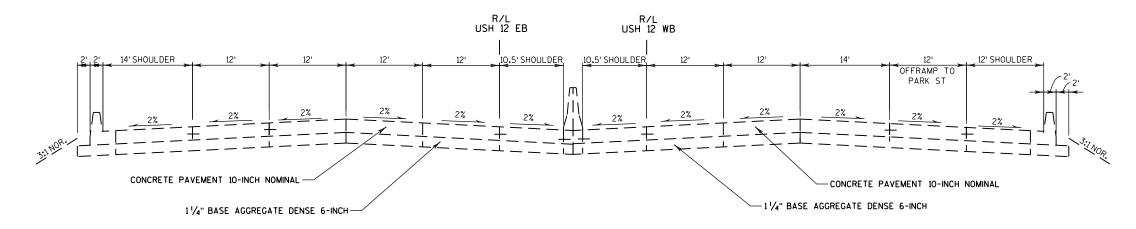
VPT POINT OF VERTICAL TANGENT

PROJECT NO: 1206-04-68 HWY: USH 12 COUNTY: DANE GENERAL NOTES SHEET:

FILE NAME: 1:\56537\1517-75-71\t1\cds\020101\_gn.ppt PLOT BY: HNTB Corp. PLOT NAME: 020101\_gn2 PLOT SCALE: 1:1

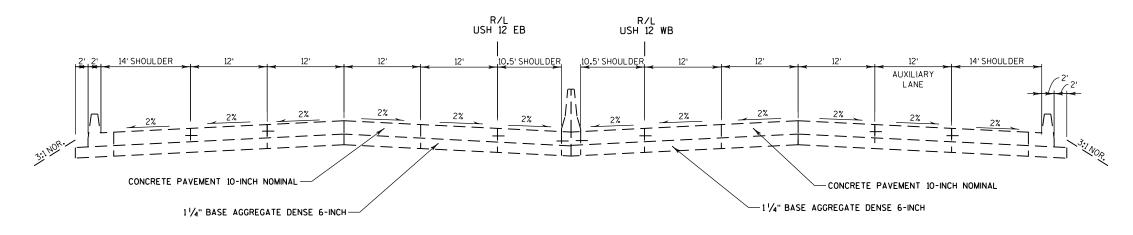


FILE NAME: \\madw00\ingrproj\60002\t2\cds\020201\_po.dgn PLOT DATE: 4/22/2015 PLOT BY: nbennett PLOT NAME : PLOT SCALE : 400:1 WISDOT/CADDS SHEET 42



# TYPICAL EXISTING SECTION

USH 12/18 SOUTH MADISON BELTLINE STRUCTURE B-13-192 WEST ABUTMENT STA. B 562WB+00 - STA. B 564WB+00



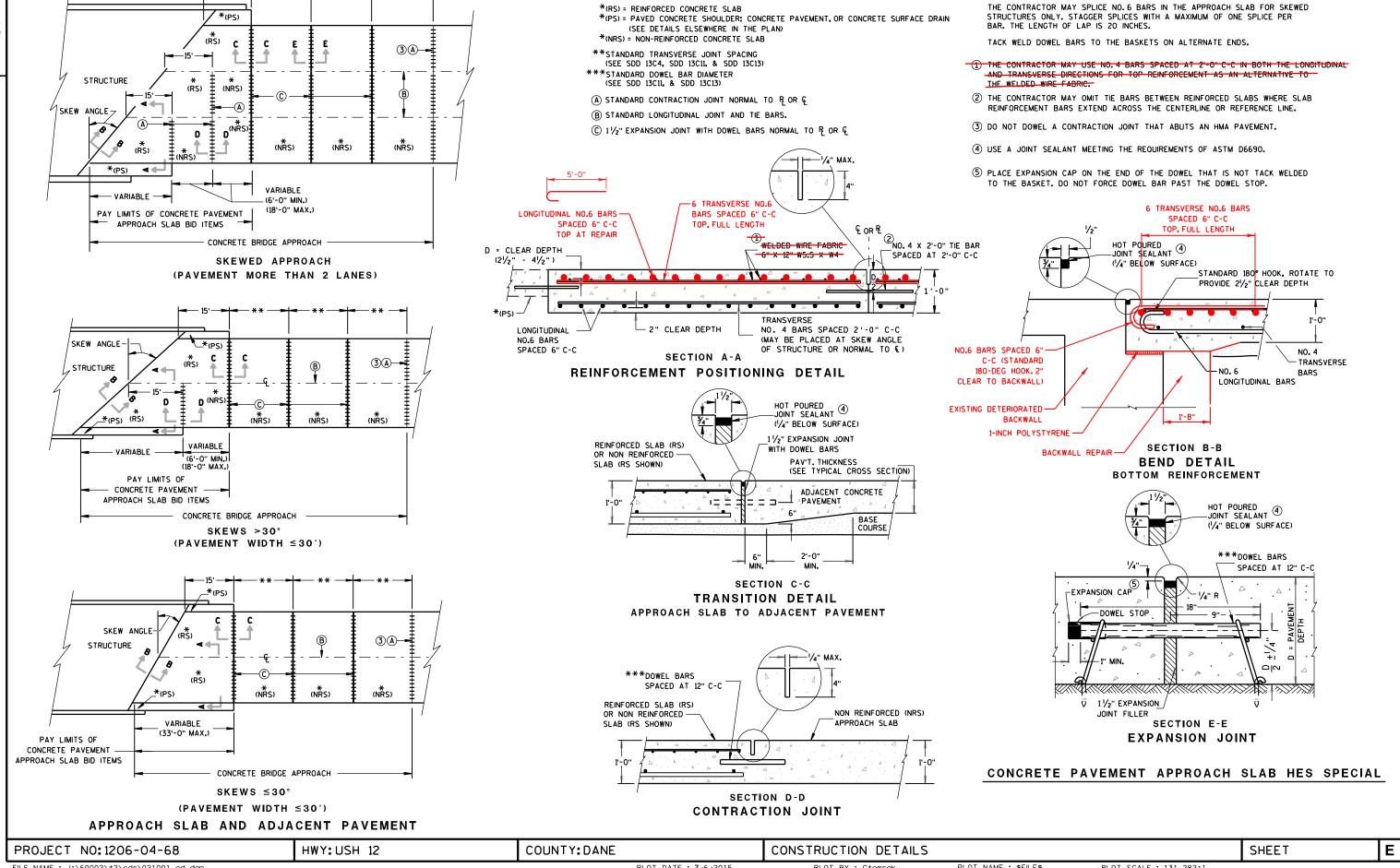
# TYPICAL EXISTING SECTION

USH 12/18 SOUTH MADISON BELTLINE RIMROCK ROAD TO STRUCTURE B-13-192 STA. B 564EB+69.26 - STA. C 595EB+66.03 STA. B 564WB+71.19 - STA. C 595WB+85.54

PROJECT NO:1206-04-68 HWY:USH 12 COUNTY:DANE TYPICAL SECTIONS: EXISTING SHEET **E** 



**GENERAL NOTES** 



FILE NAME: J:\60002\+2\cds\021001\_cd.dgn

PLOT DATE: 7/6/2015

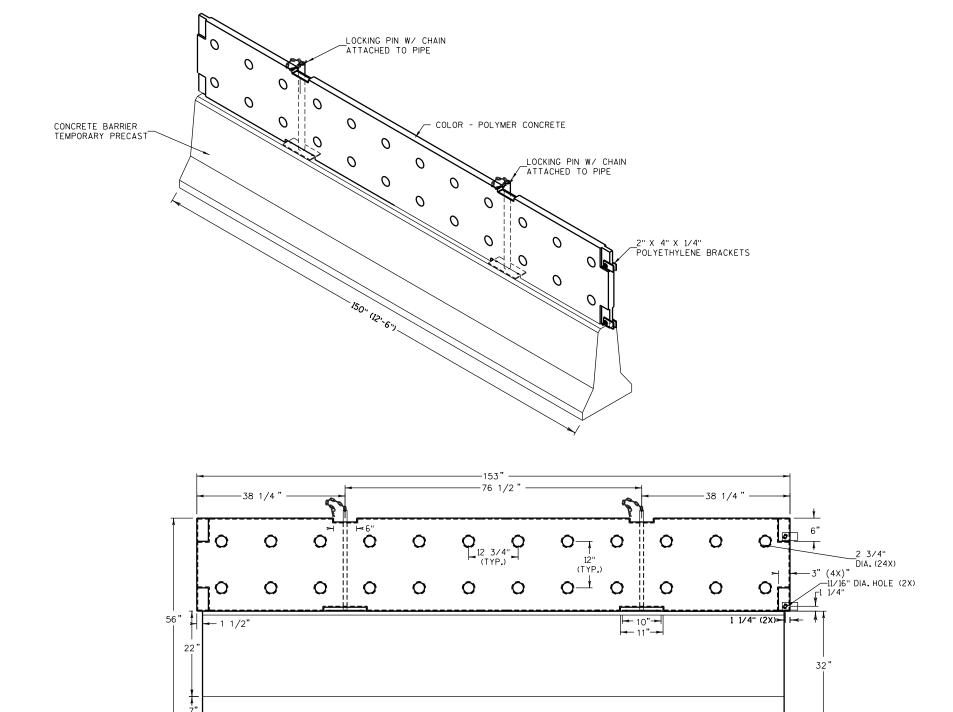
PLOT BY: Ctomsak

PLOT NAME: \$FILE\$

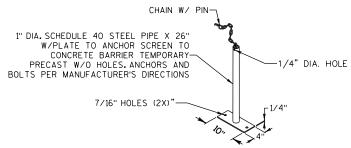
PLOT SCALE: 131.282:1

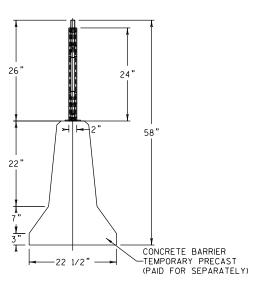
WISDOT/CADDS SHEET 42





- 150" (12'-6") -





## TRAFFIC CONTROL GAWK SCREEN DETAIL

\_CONCRETE BARRIER TEMPORARY PRECAST

NOT TO SCALE

NOTE: DETAIL IS ARMORCAST PART NUMBER P6000963

PROJECT NO:1206-04-68 HWY:USH 12 COUNTY:DANE CONSTRUCTION DETAILS SHEET **E** 

FILE NAME: J:\60002\t2\cds\021001\_cd.dgn

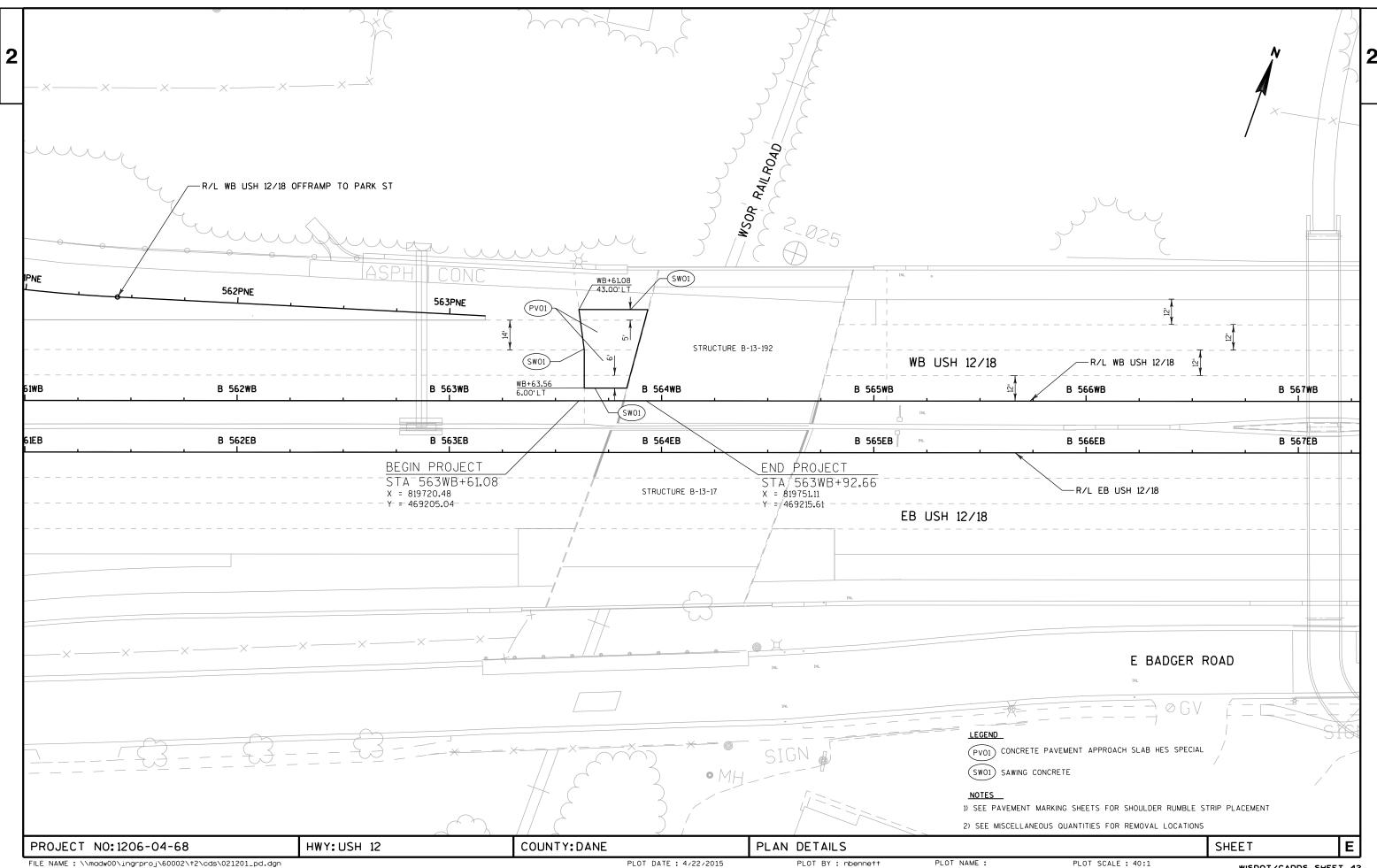
PLOT DATE: 7/6/2015

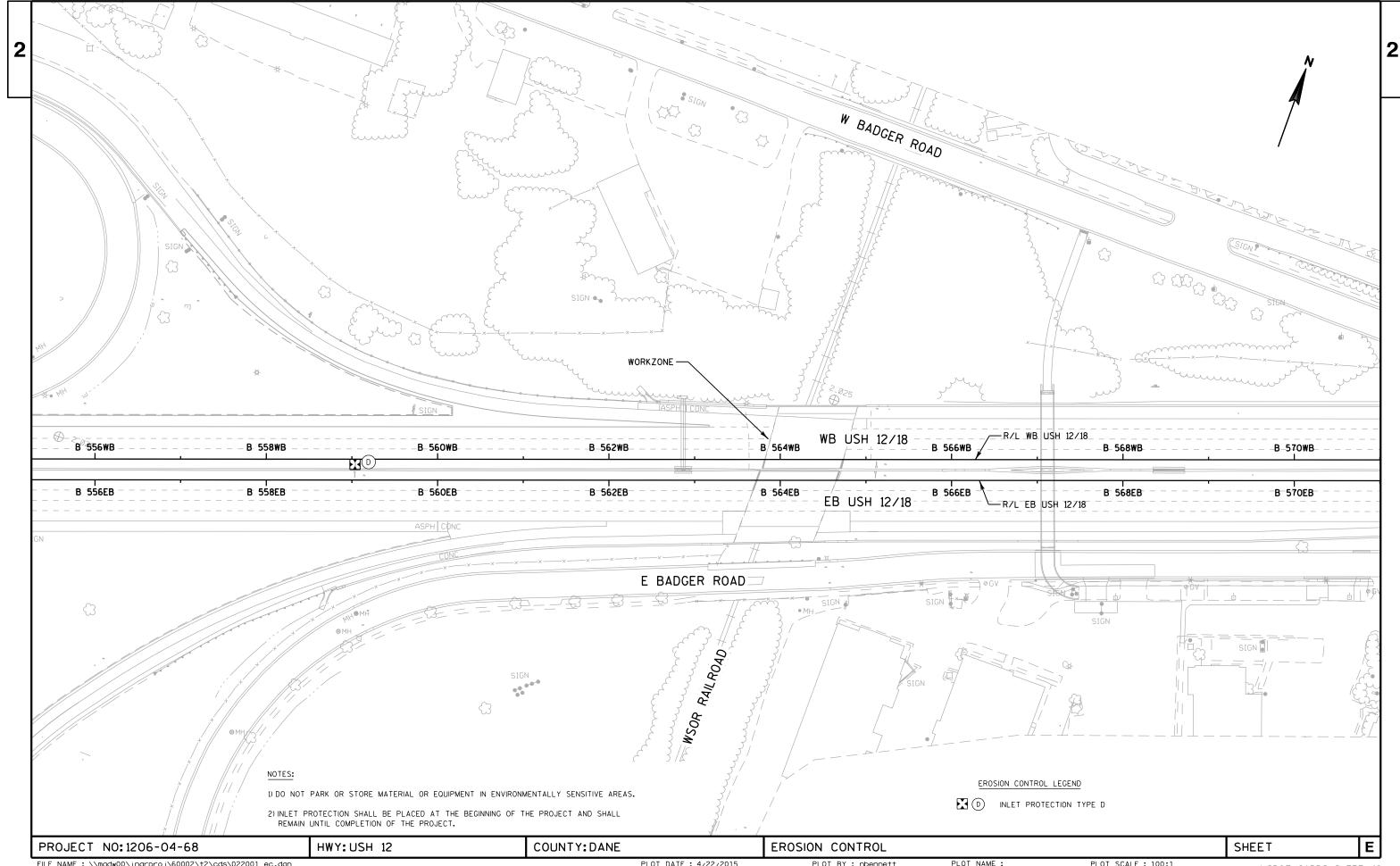
PLOT BY: Ctomsak

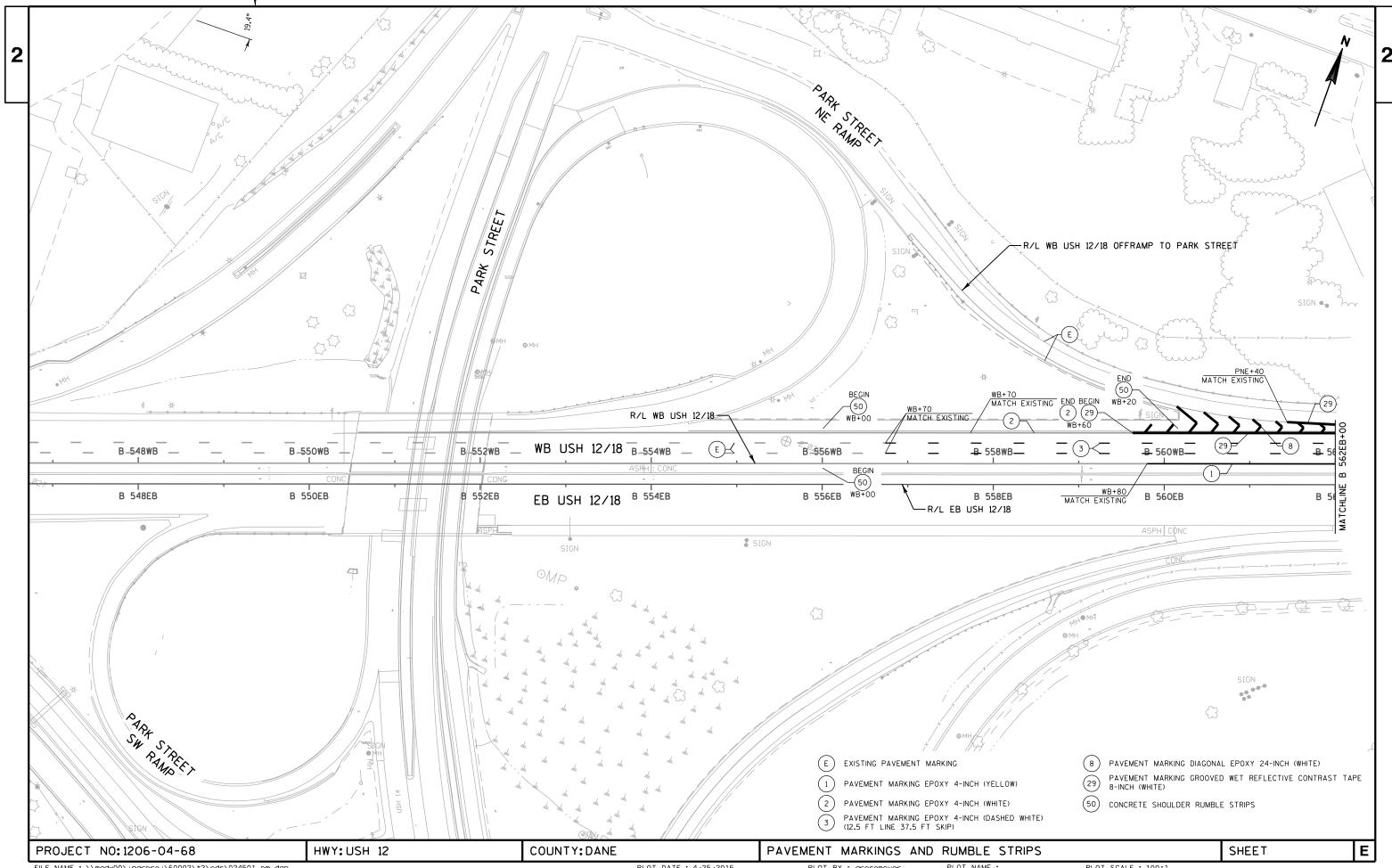
PLOT NAME: \$FILE\$

PLOT SCALE: 131.282:1

WISDOT/CADDS SHEET 42







FILE NAME: \madw00\ingrproj\60002\t2\cds\024501\_pm.dgn

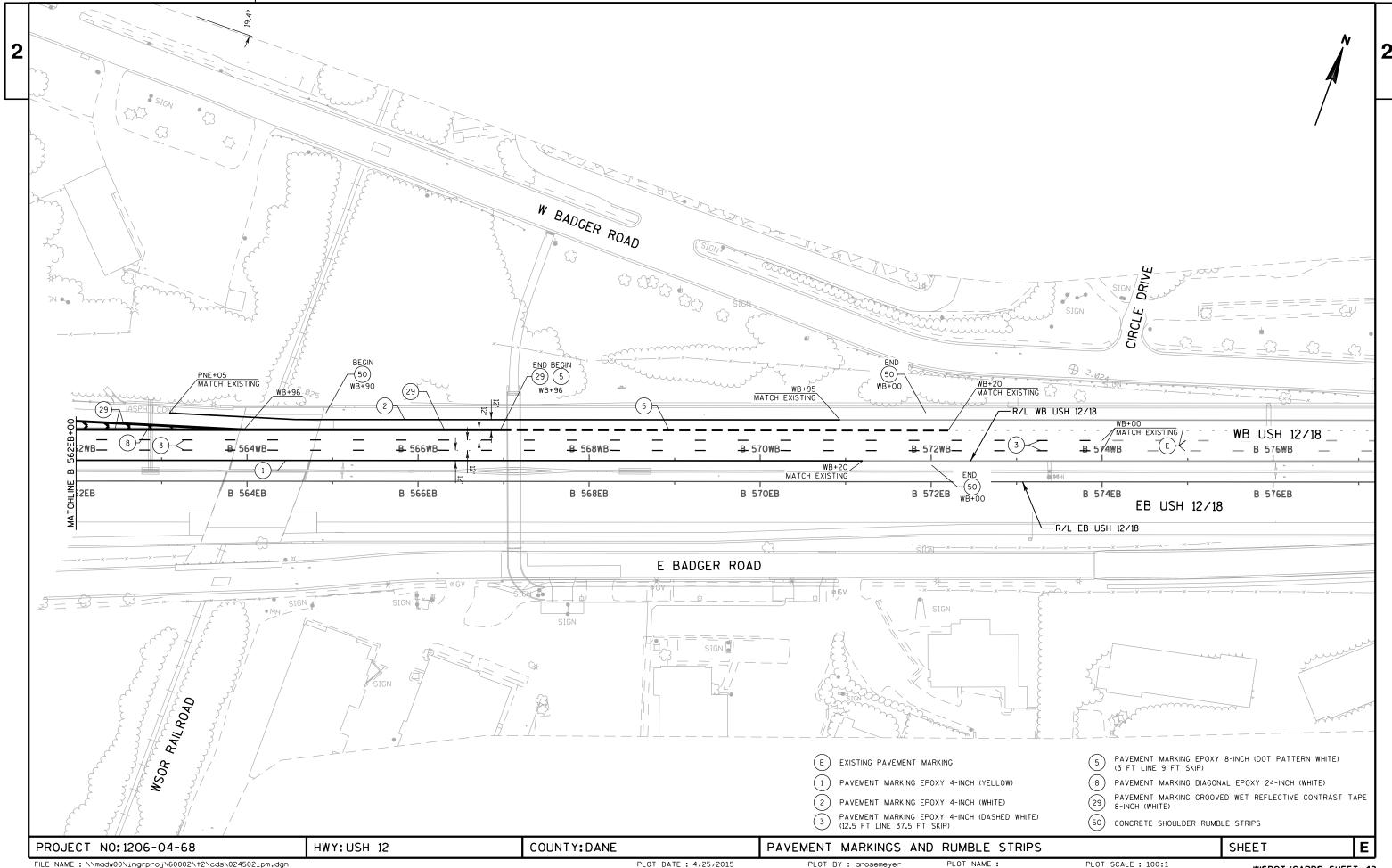
PLOT DATE: 4/25/2015

PLOT BY: arosemeyer

PLOT NAME:

PLOT SCALE: 100:1

WISDOT/CADDS SHEET 42



WISDOT/CADDS SHEET 42

## GENERAL NOTES FOR TRAFFIC CONTROL

- 1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 2) CONFLICTING PERMANENT SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

  CONFLICTING PERMANENT SIGNS WILL BE COVERED USING THE STANDARD BID ITEM, TRAFFIC CONTROL COVERING SIGNS.
- 3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 4) FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.
- 5) ALL TYPE HIBARRICADES SHALL BE 8'WHDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.
- 6) ALL PAVEMENT MARKING STATIONING IN TRAFFIC CONTROL PLANS HAVE THE PREFIX OF THE ALIGNMENT THAT IT IS MEASURED OFF OF IN THE STATION CALLOUT.
- 7) ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO PART VIOF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE WISCONSIN SUPPLEMENT TO THE MUTCD, AND OTHER CONTRACT DOCUMENTS.
- 8) CONTRACTORS EQUIPMENT AND MATERIALS STOCKPILES MAY NOT BE STORED WITHIN 30-FEET OF THE EDGE OF TRAVEL LANE OF USH 12 OR USH 12 RAMPS WHILE THE CONTRACTOR IS NOT WORKING, UNLESS THEY ARE PROTECTED BY CONCRETE BARRIER TEMPORARY PRECAST, PAID FOR AT THE CONTRACTOR'S EXPENSE.
- 9) TURNING TRAFFIC CONTROL DEVICES WHEN NOT IN USE TO OBSCURE THE MESSAGE IS NOT ALLOWED.
- 10) CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AS DIRECTED BY ENGINEER
- 11) THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.
- 12) TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

#### TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADE TYPE III
  WITH LIGHTS TYPE A
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- \* TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- F TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) FIXED TO SIGNAL POLE
- → TRAFFIC FLOW ARROW
- SIGN TRAFFIC CONTROL SIGN(S)
- TRAFFIC CONTROL SIGN(S) FROM PREVIOUS STAGE

- TRAFFIC CONTROL SIGNS
  PORTABLE CHANGABLE MESSAGE
- CONCRETE BARRIER TEMPORARY PRECAST
  WITH GAWK SCREEN FROM PREVIOUS STAGE
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC CRASH CUSHIONS TEMPORARY
- CC CRASH CUSHIONS TEMPORARY FROM PREVIOUS STAGE
- --- C --- TRAFFIC CONTROL CHANNELIZING CURB SYSTEM

TEMPORARY PAVEMENT MARKINGS FROM PREVIOUS

- TEMPORARY PAVEMENT MARKINGS
- STAGE OR EXISTING PAVEMENT MARKINGS

  TEMPORARY RAISED PAVEMENT MARKERS

### TEMPORARY PAVEMENT MARKING LEGEND

- 13 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- 63) TEMPORARY PAVEMENT MARKING WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (WHITE)
- TEMPORARY PAVEMENT MARKING WET REFLECTIVE CONTRAST REMOVABLE TAPE 8-INCH (WHITE)
- TEMPORARY PAVEMENT MARKING WET REFLECTIVE CONTRAST REMOVABLE
  TAPE 4-INCH (YELLOW)

PROJECT NO: 1206-04-68 HWY: USH 12 COUNTY: DANE TRAFFIC CONTROL DETAILS SHEET E

FILE NAME: J:\60002\t2\cds\025100\_tc.dgn

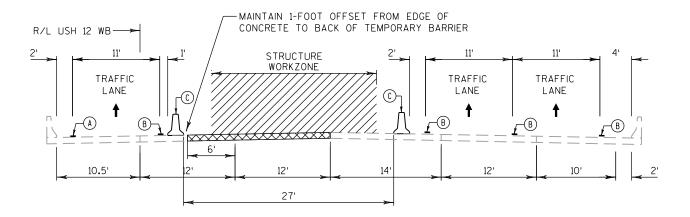
PLOT DATE: 7/9/2015

PLOT BY: Ctomsak

PLOT NAME: \$FILE\$

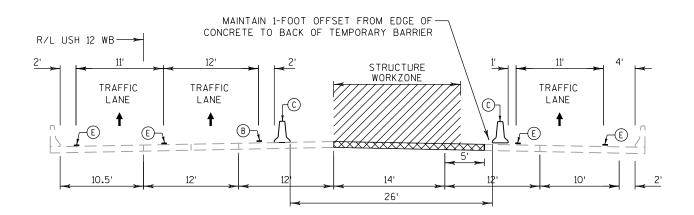
PLOT SCALE: 40:1

WISDOT/CADDS SHEET 42



# STAGE 1 TRAFFIC CONTROL

TRAFFIC CONTROL AT STRUCTURE B-13-192



# LEGEND

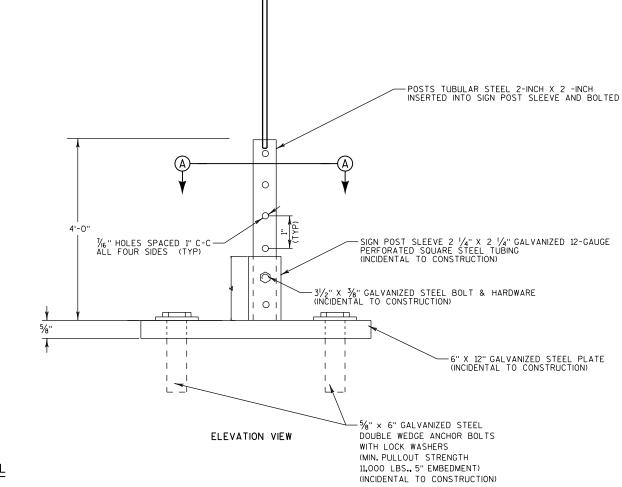
- A TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW EDGELINE)
- B TEMPORARY PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
- © TEMPORARY PRECAST CONCRETE BARRIER
- E PAVEMENT MARKINGS FROM PREVIOUS STAGE
- STRUCTURE WORKZONE
- APPROACH SLAB LIMITS

# STAGE 2 TRAFFIC CONTROL

TRAFFIC CONTROL AT STRUCTURE B-13-192

PROJECT NO:1206-04-68 HWY:USH 12 COUNTY:DANE TRAFFIC CONTROL - TYPICAL SECTIONS SHEET **E** 





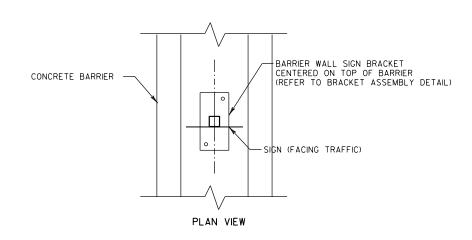
3½" X ¾" GALVANIZED STEEL BOLT & HARDWARE

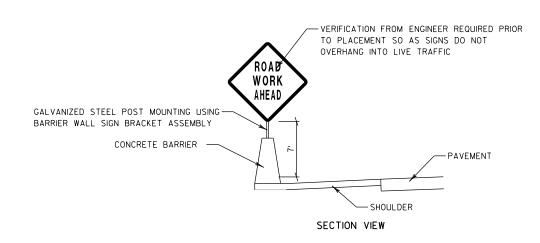
SIGN POST SLEEVE 2 ¼" X 2 ¼" GALVANIZED 12-GAUGE

PERFORATED SQUARE STEEL TUBING
(INCIDENTAL TO CONSTRUCTION)

SECTION A-A

## BRACKET ASSEMBLY DETAIL





MEDIAN BARRIER MOUNTING DETAIL

# MOUNTING DETAILS FOR SIGNS MOUNTED TO MEDIAN BARRIER

NOT TO SCALE

PROJECT NO:1206-04-68 HWY:USH 12 COUNTY:DANE TRAFFIC CONTROL CONSTRUCTION DETAILS SHEET **E** 

FILE NAME: J:\60002\t2\cds\025300\_tc.dgn

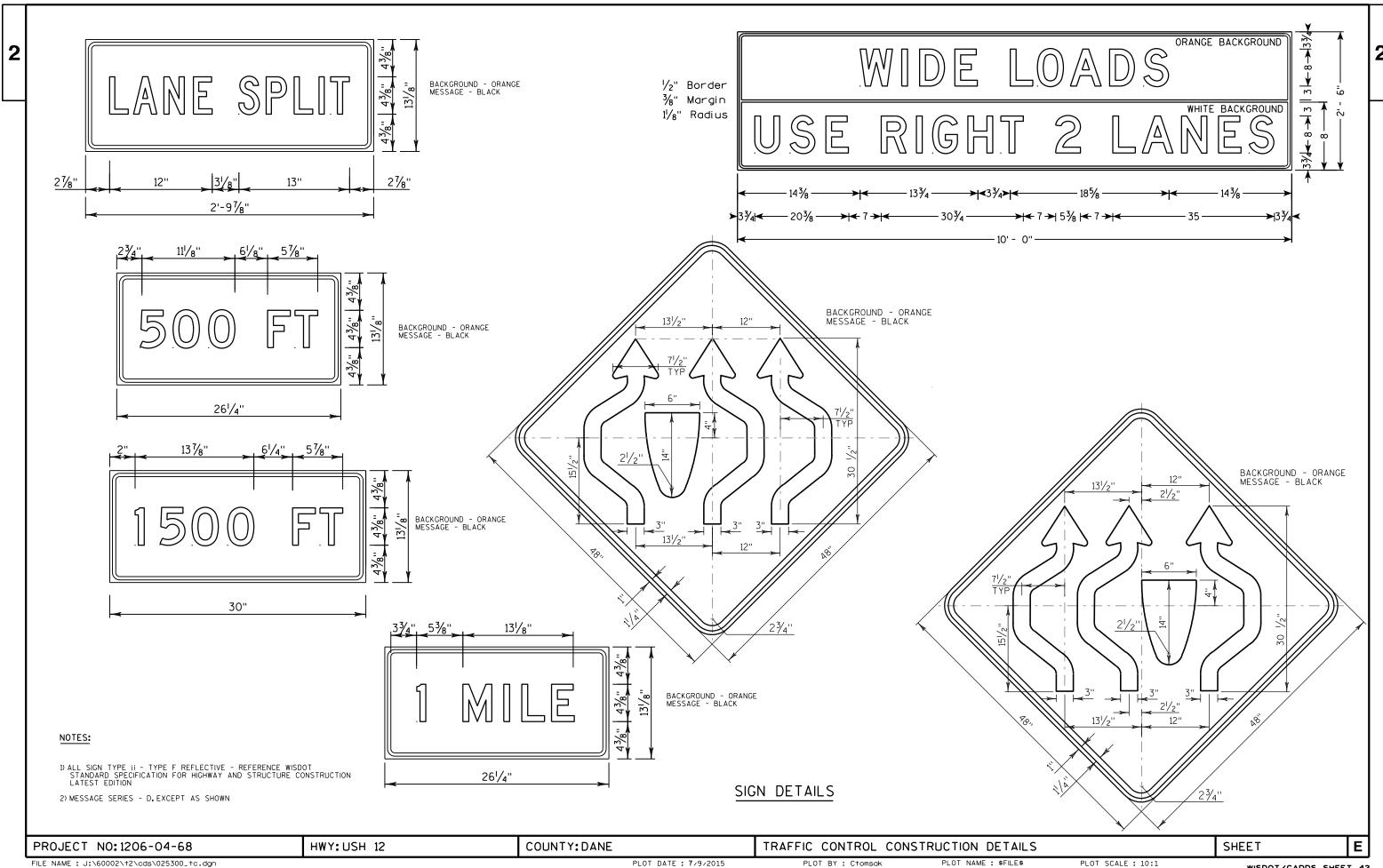
PLOT DATE: 7/9/2015

PLOT BY: Ctomsak

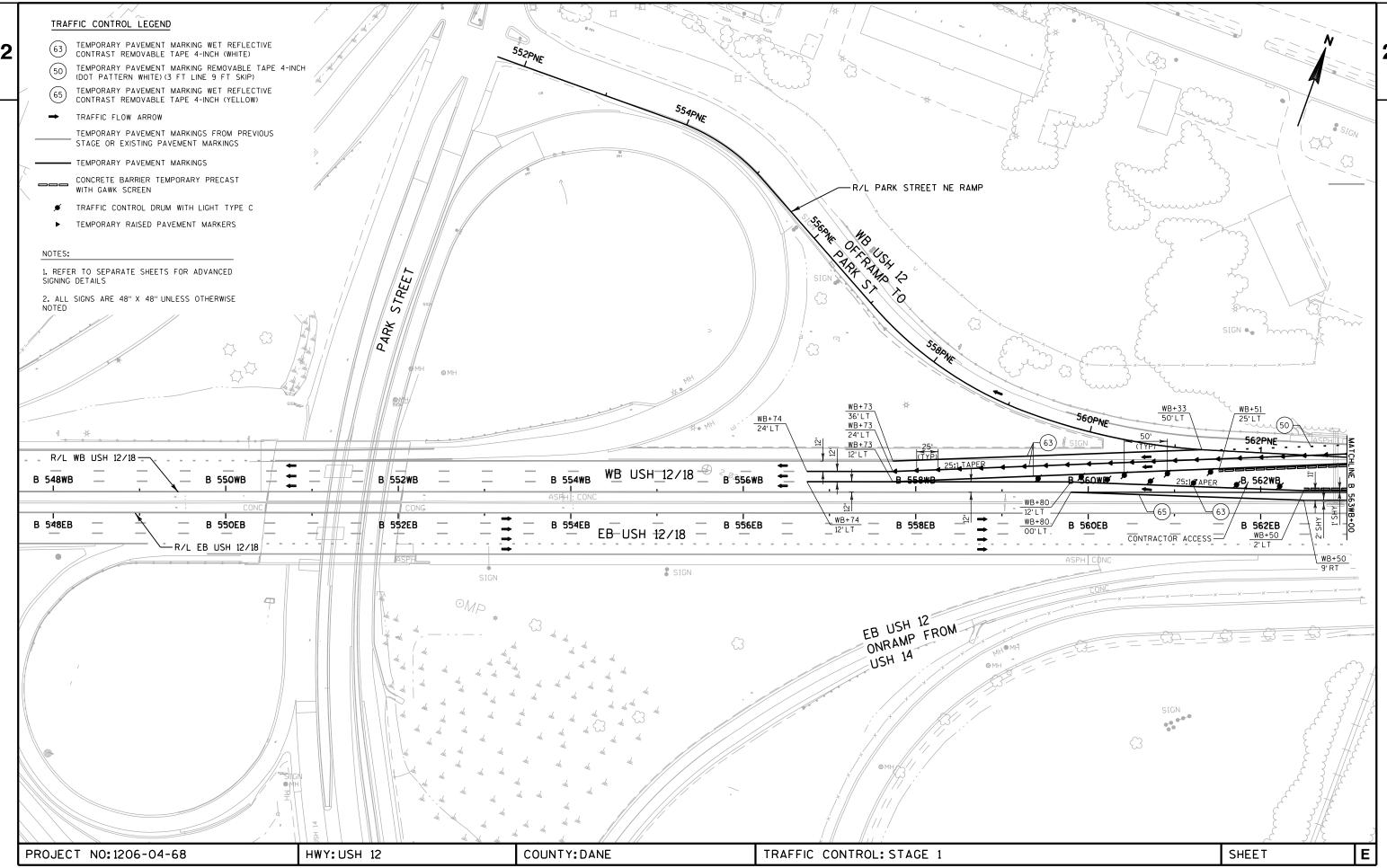
PLOT NAME: \$FILE\$

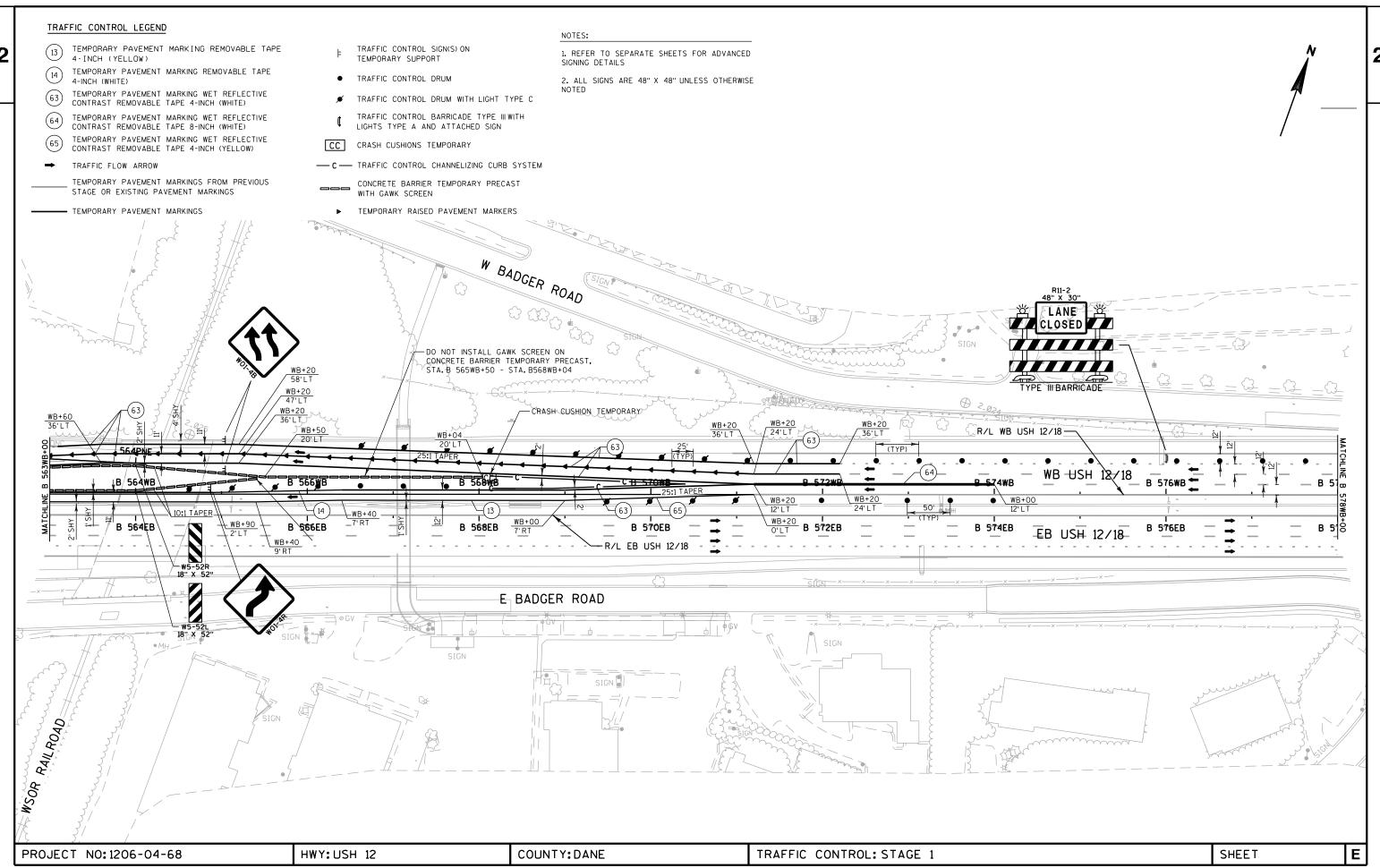
PLOT SCALE: 10:1

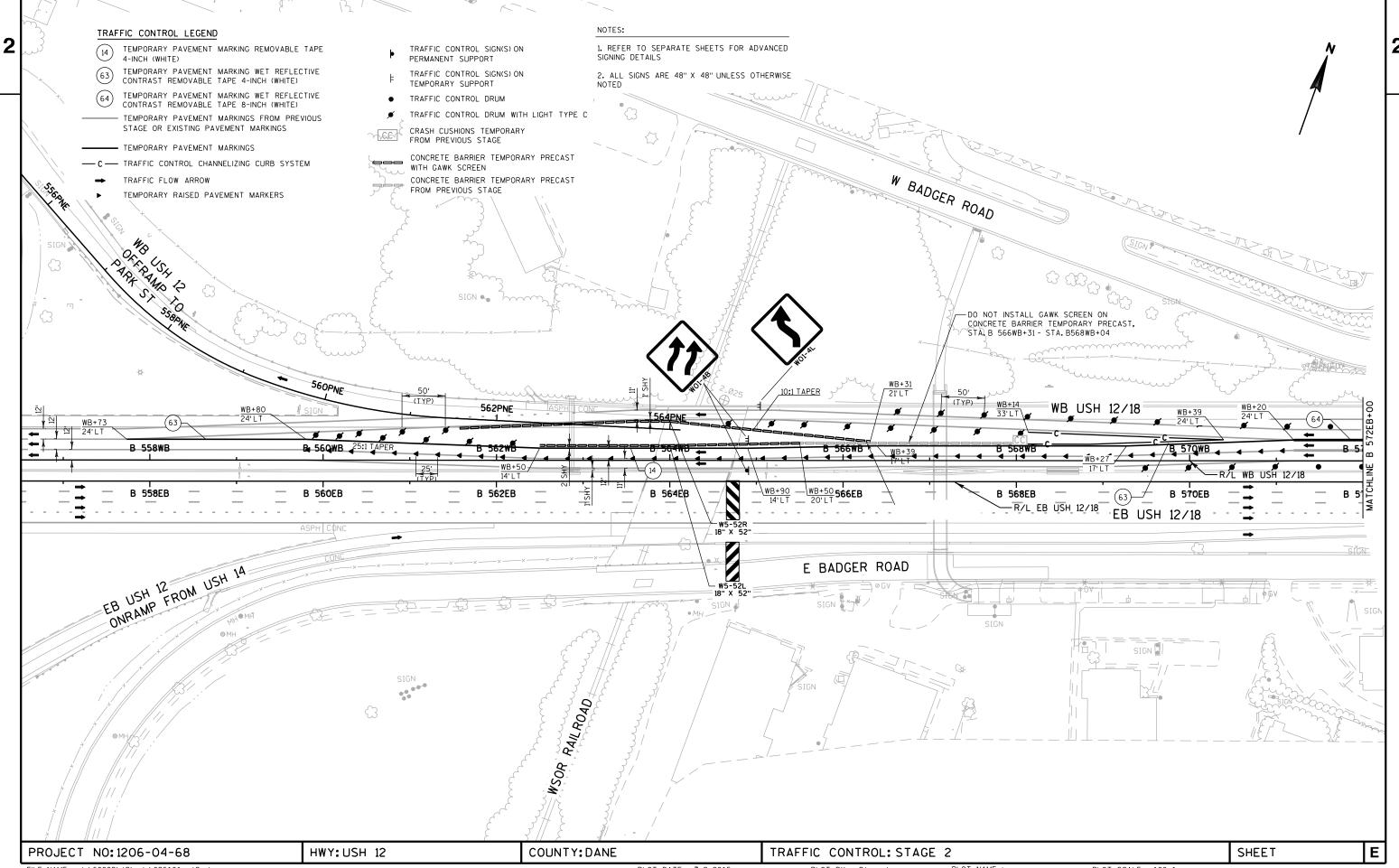
WISDOT/CADDS SHEET 42

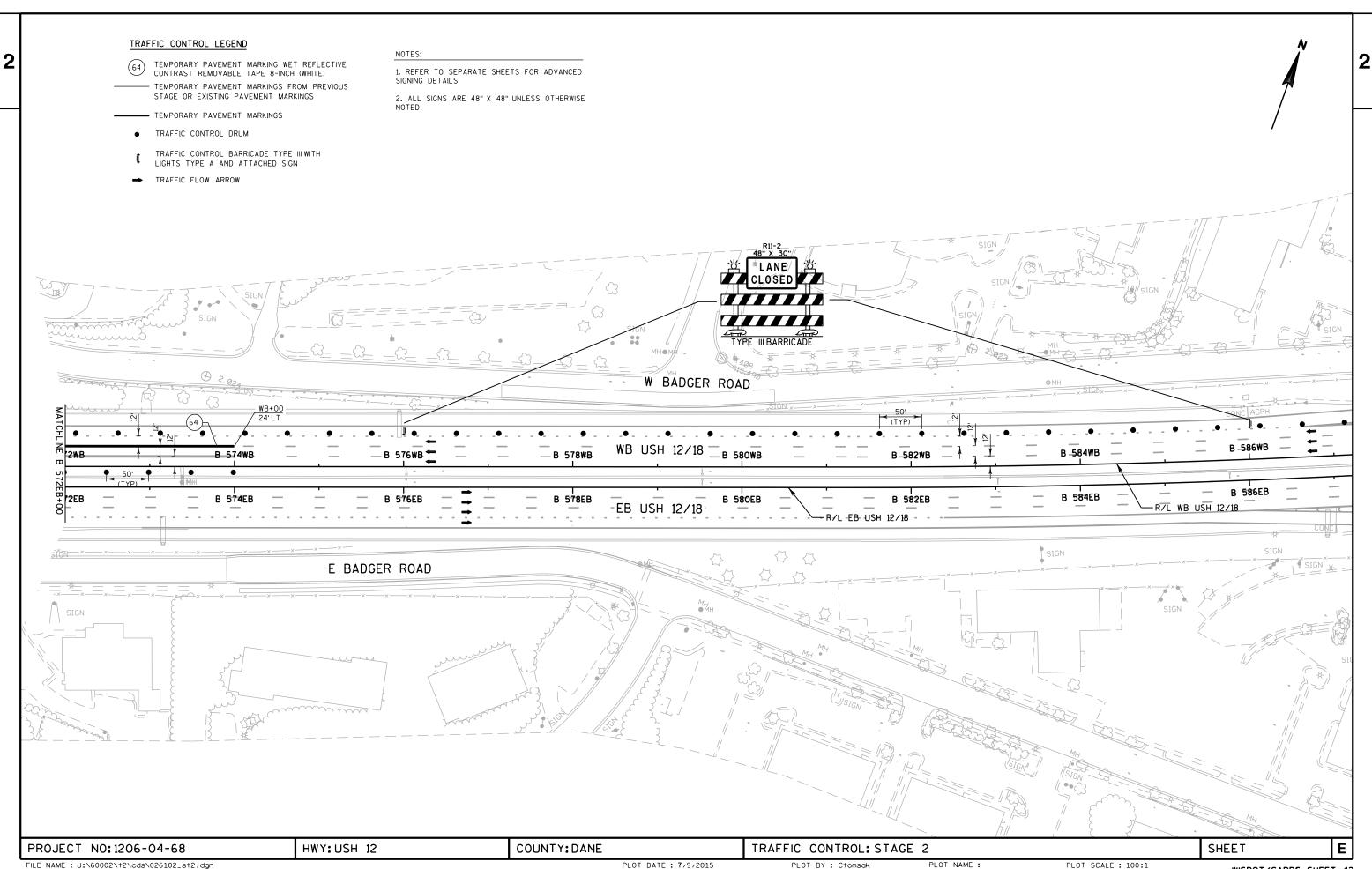


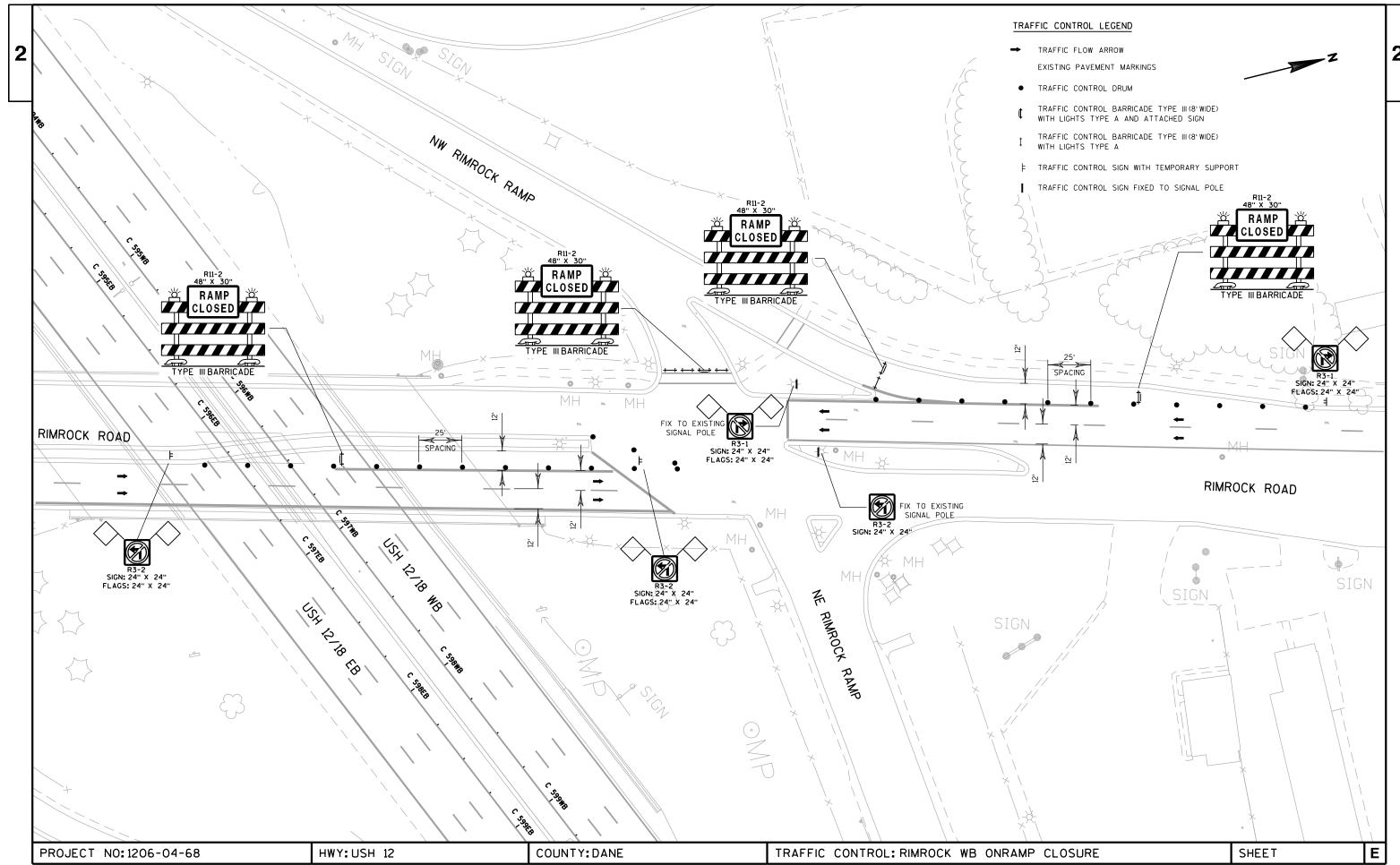
WISDOT/CADDS SHEET 42











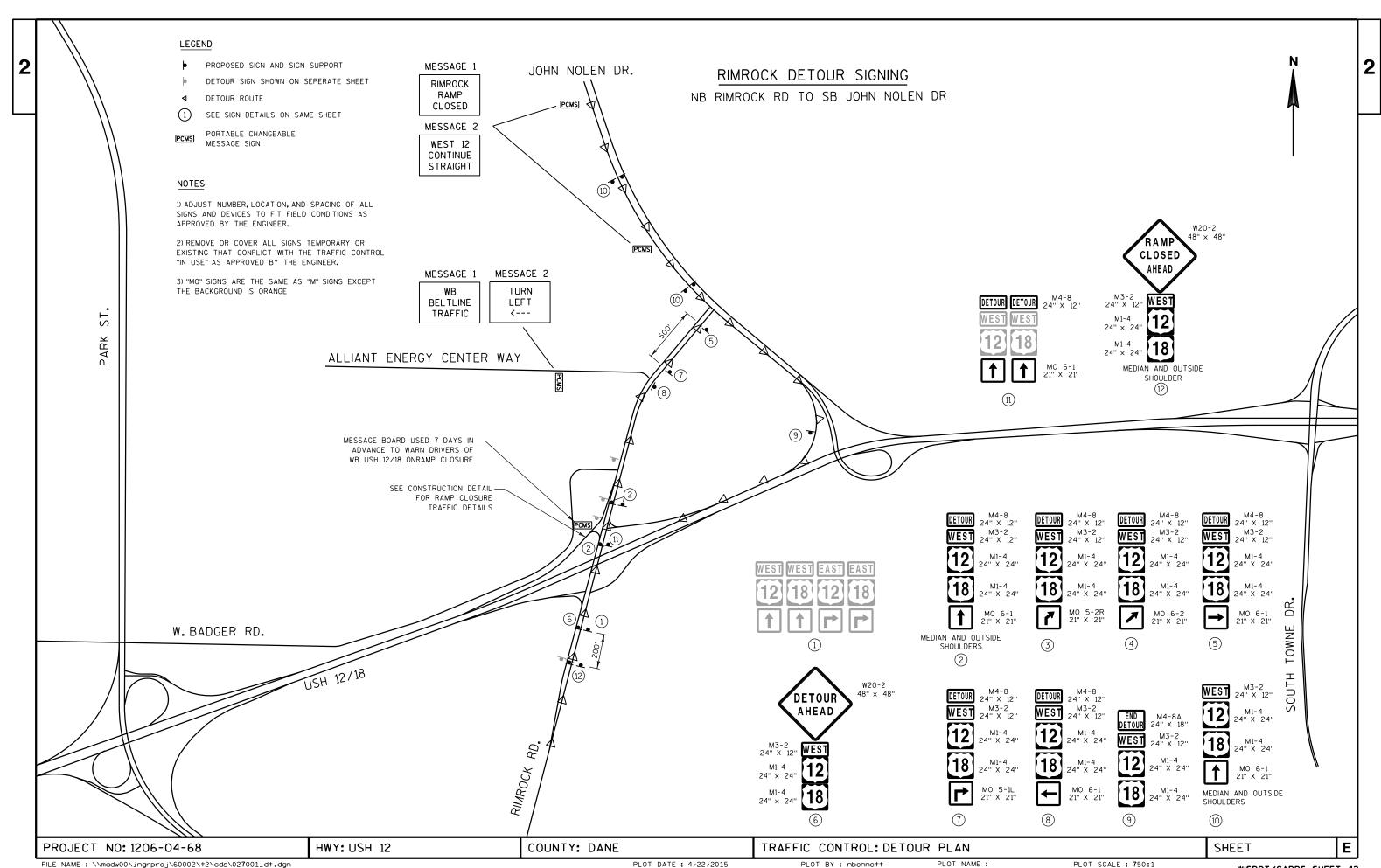
FILE NAME: J:\60002\t2\cds\026103\_st2.dgn

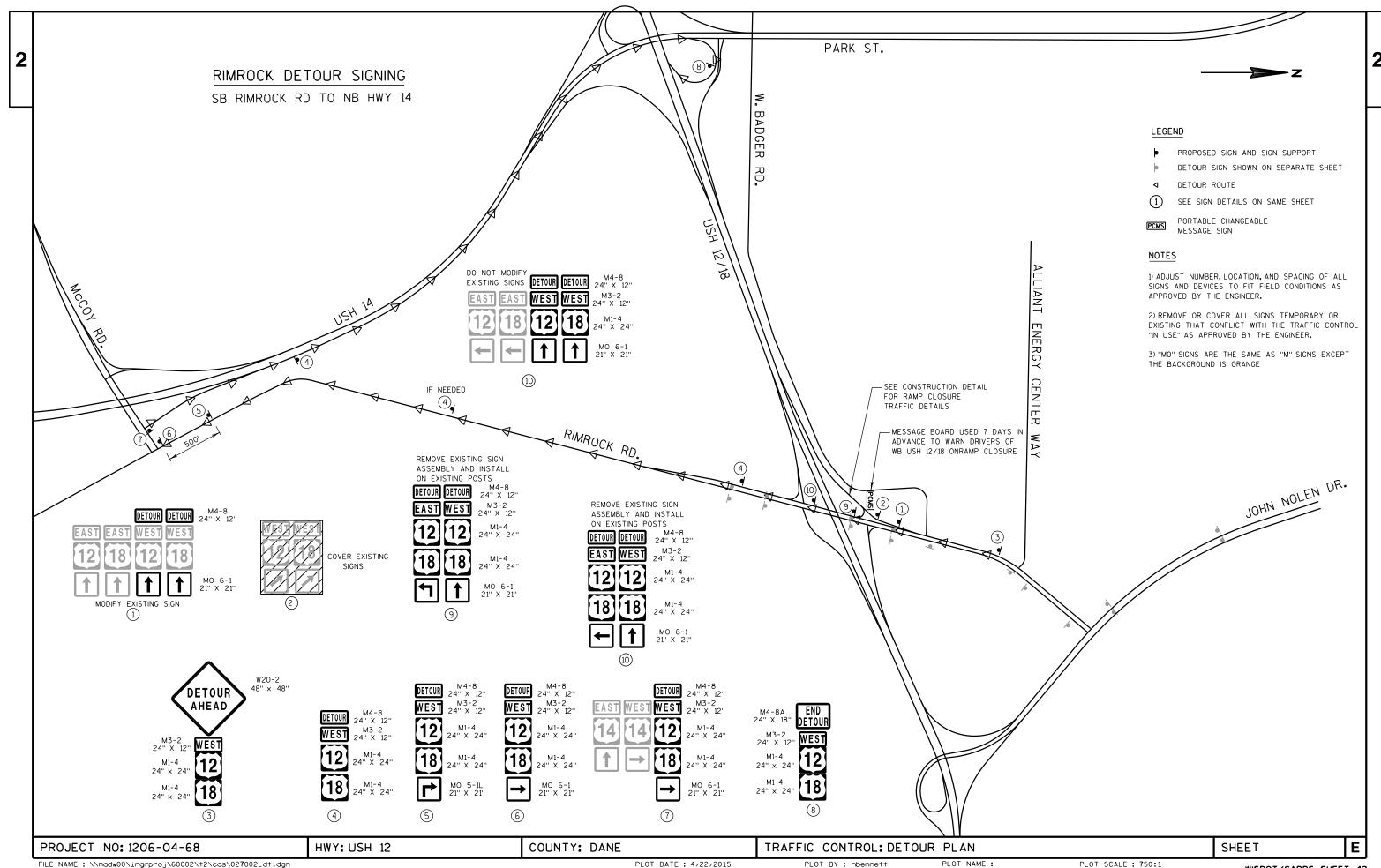
PLOT DATE: 7/9/2015

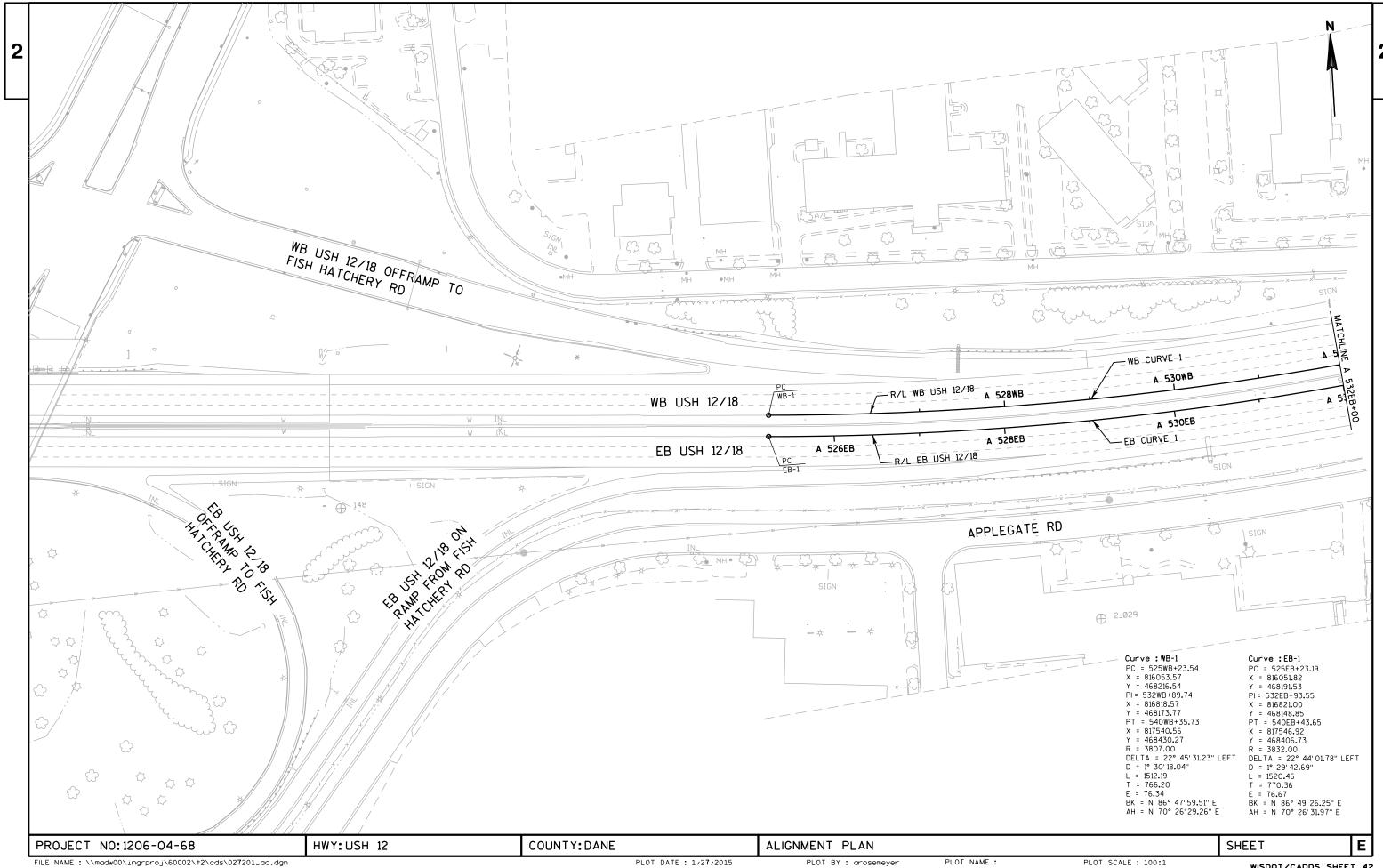
PLOT BY: Ctomsak

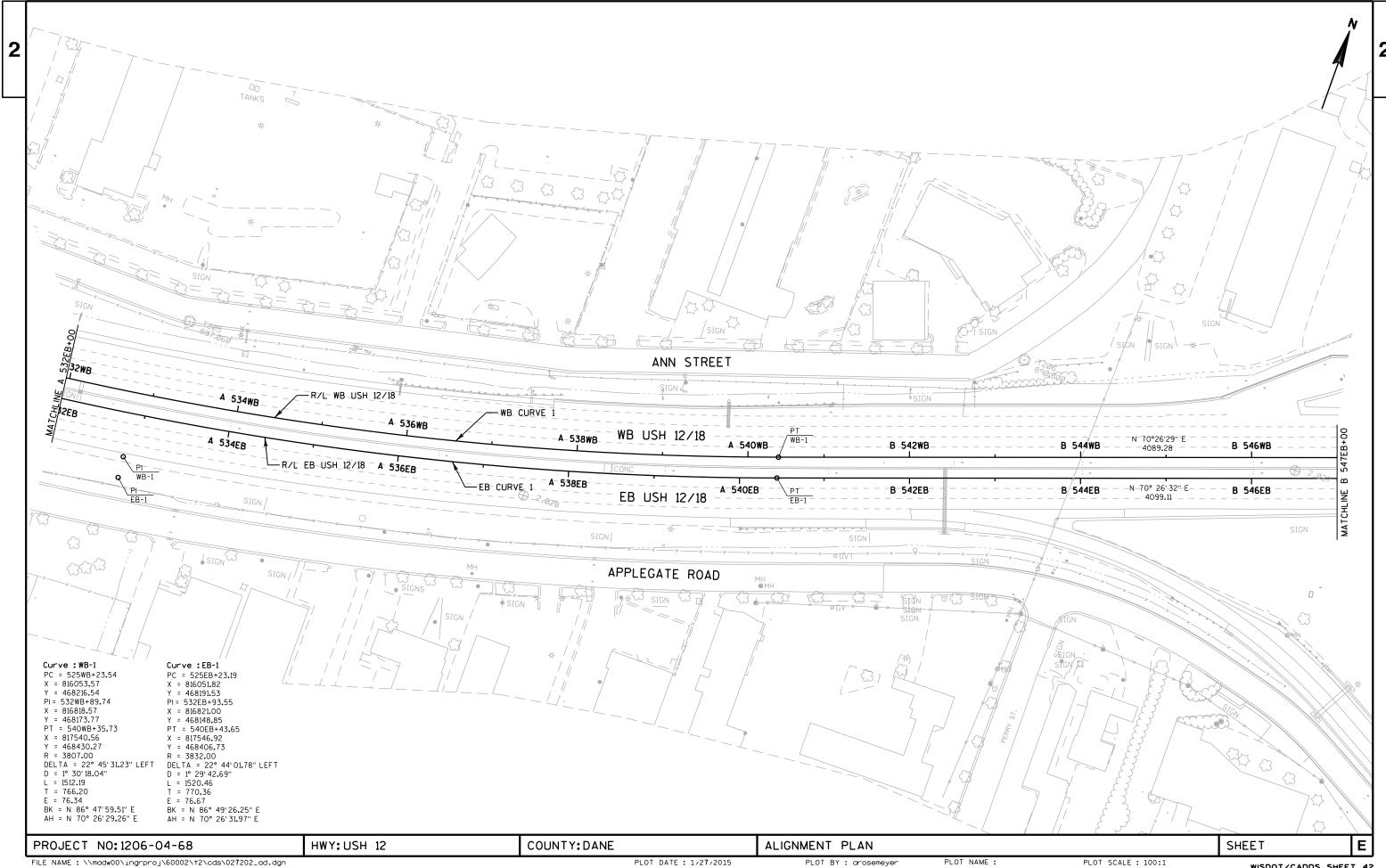
PLOT NAME:
PLOT NAME: 9LOT SCALE: 50:1

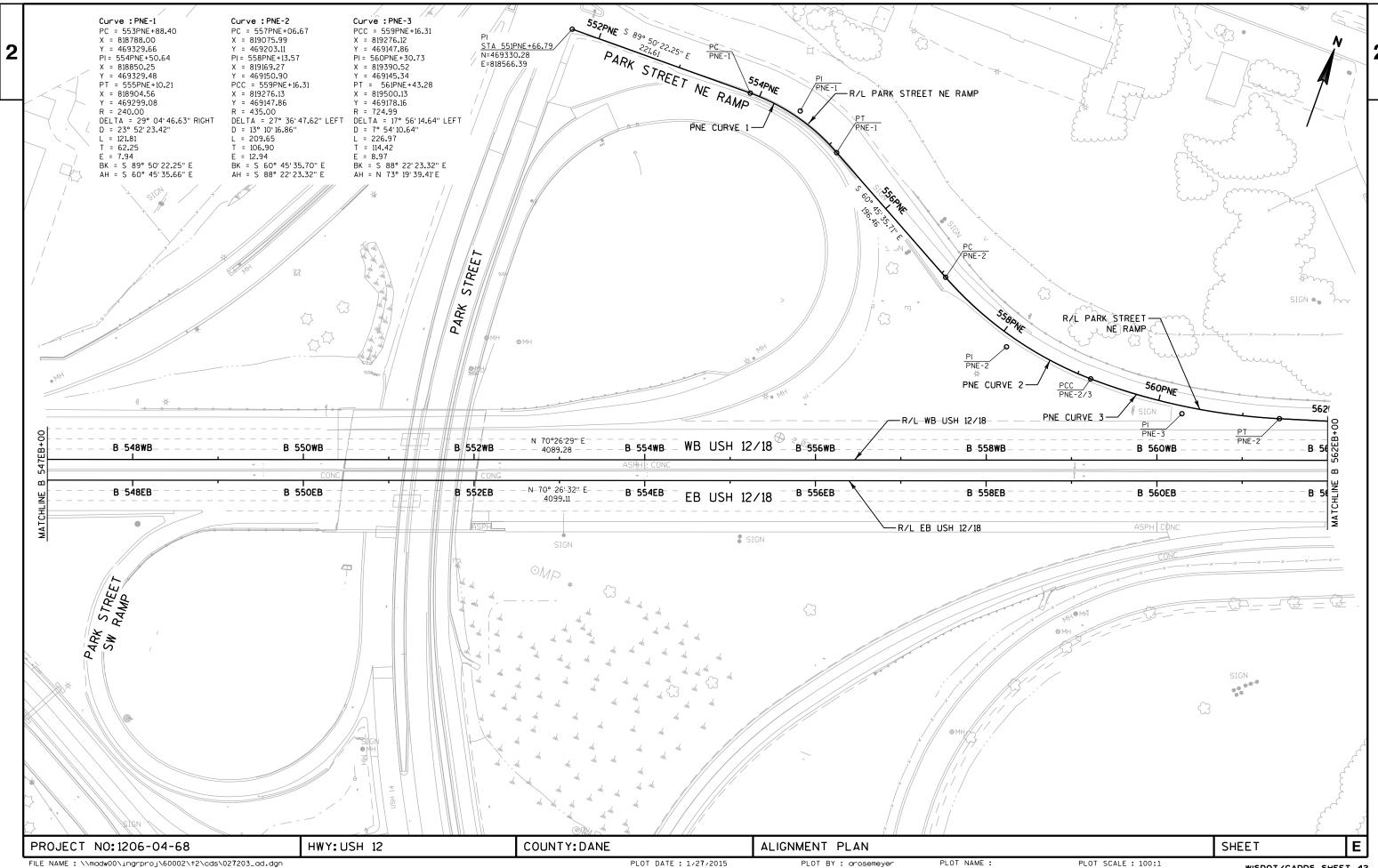
WISDOT/CADDS SHEET 42

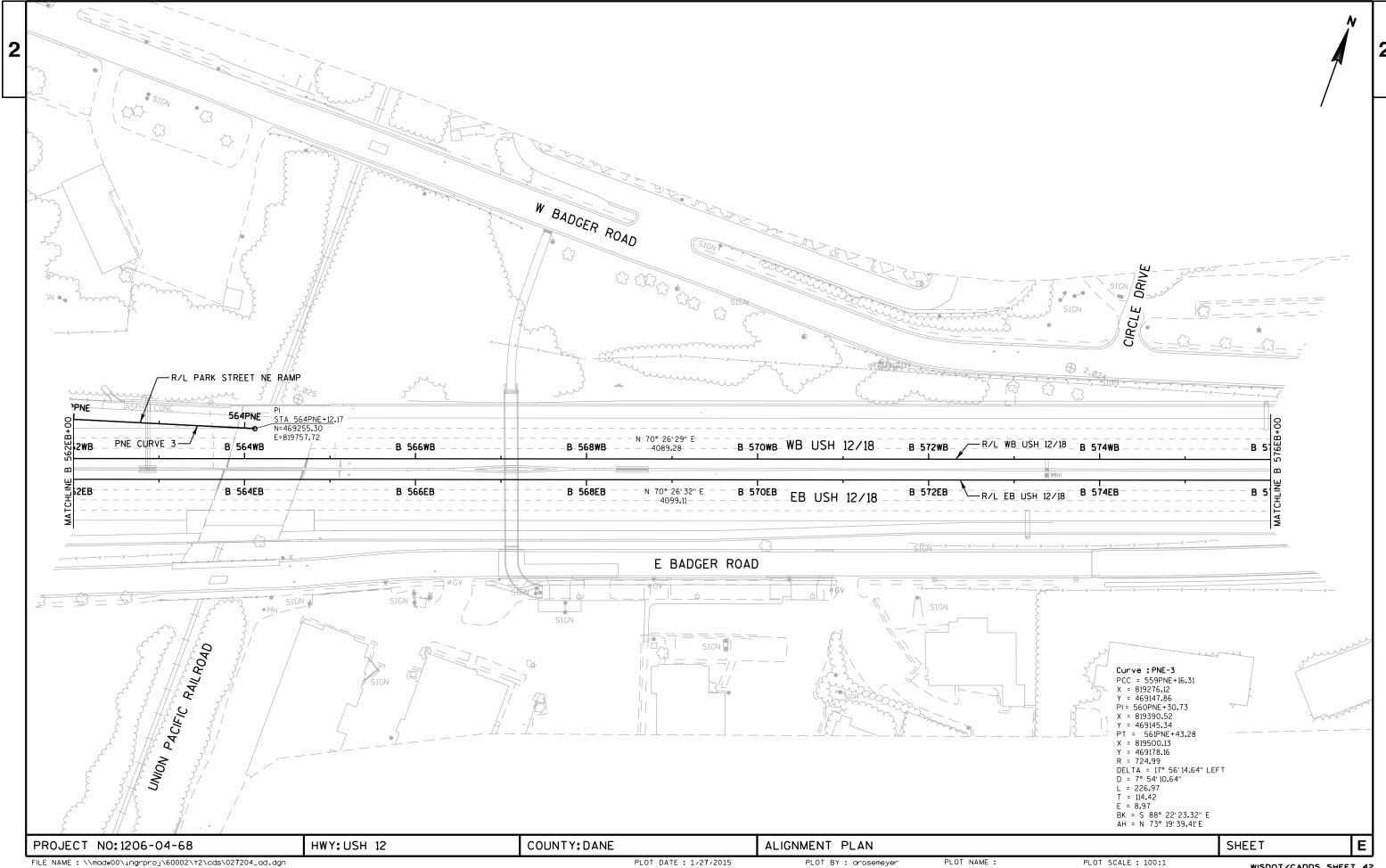


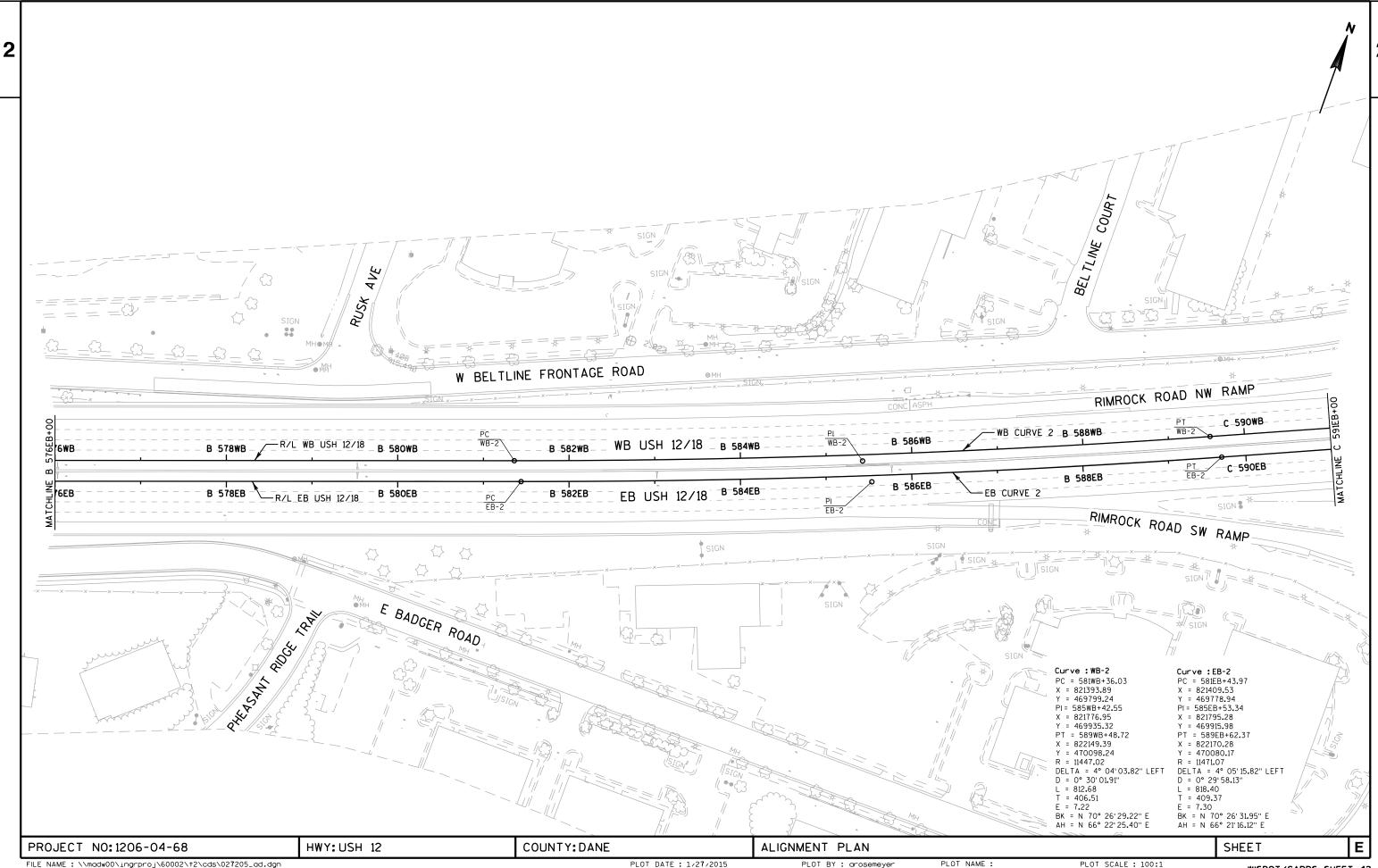


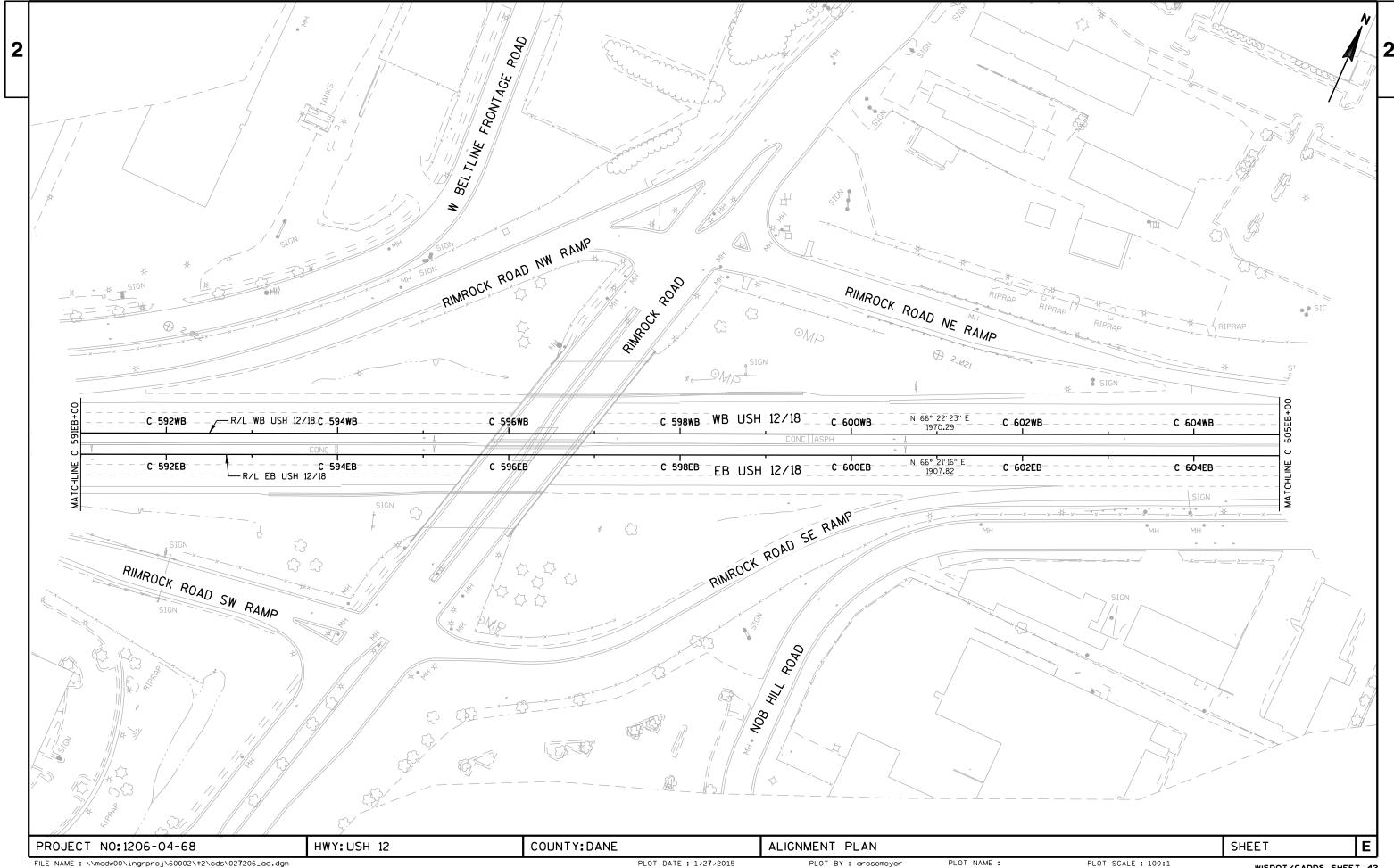


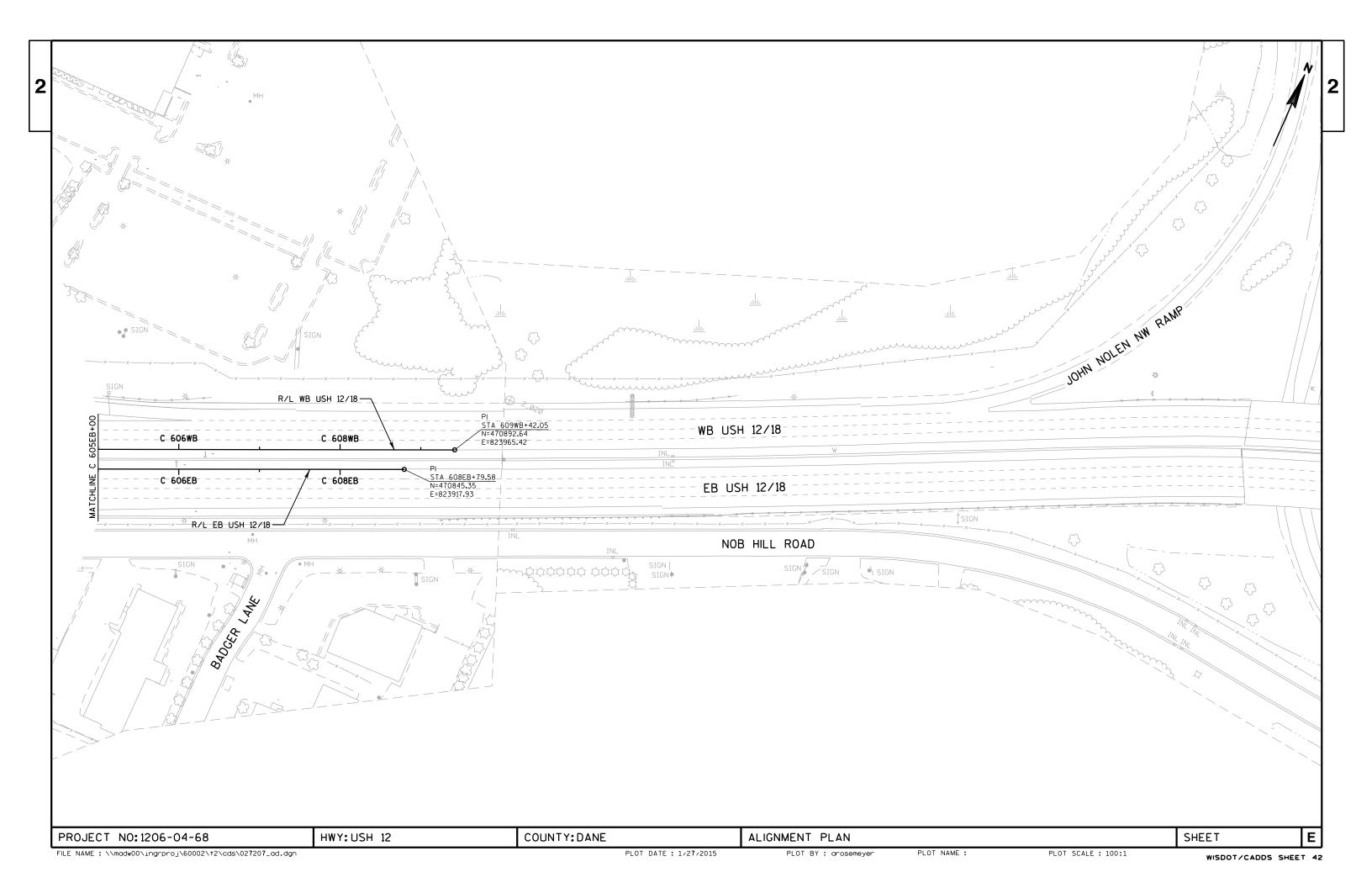












DATE 27 LINE	JUL15	E	STIMATE	OF QUAN	TITIES 1206-04-68
NUMBER 0010		ITEM DESCRIPTION Incentive/Disincentive for Interim Completion of Work 001. Rimrock Road Beltline Entrance Closure	UNIT CD WB	TOTAL 8. 000	QUANTI TY 8. 000
0020 0030	204. 0100 206. 1000	Removing Pavement Excavation for Structures Bridges (structure) 001. B-13-192	SY LS	105. 000 1. 000	105. 000 1. 000
0040 0050	210. 0100 213. 0100	Backfill Structure Finishing Roadway (project) 001. 1206-04-68	CY EACH	80. 000 1. 000	80. 000 1. 000
0060 0070	305. 0120 416. 1110	Base Aggregate Dense 1 1/4-Inch Concrete Shoulder Rumble Strips	TON LF	47. 000 2, 717. 000	47. 000 2, 717. 000
0800	502. 0100	Concrete Masonry Bridges	CY	15. 000	15. 000
0090 0100	502. 5005 505. 0605	Masonry Anchors Type L No. 5 Bars Bar Steel Reinforcement HS Coated Bridges	EACH LB	84. 000 1, 310. 000	84. 000 1, 310. 000
0110	511. 1200	Temporary Shoring (structure) 001. B-13-192	SF	285. 000	285. 000
0120 0130	516. 0500 603. 8000	Rubberized Membrane Waterproofing Concrete Barrier Temporary Precast	SY LF	6. 000 1, 025. 000	6. 000 1, 025. 000
0140	603. 8125	Delivered Concrete Barrier Temporary Precast	LF	1, 738. 000	1, 738. 000
0150	614. 0905	Installed Crash Cushions Temporary	EACH	1. 000	1. 000
0160	619. 1000	Mobilization	EACH	1. 000	1. 000
0170	628. 7020	Inlet Protection Type D	EACH	1.000	1. 000
0180	643. 0200	Traffic Control Surveillance and Maintenance (project) 001. 1206-04-68		35. 000	35. 000
0190 0200	643. 0300 643. 0420	Traffic Control Drums Traffic Control Barricades Type III	DAY DAY	4, 054. 000 394. 000	4, 054. 000 394. 000
0210	643. 0705	Traffic Control Warning Lights Type A		788. 000	788. 000
0220	643. 0715	Traffic Control Warning Lights Type C		1, 068. 000	1, 068. 000
0230	643. 0800	Traffic Control Arrow Boards	DAY	82.000	82. 000
0240 0250	643. 0900 643. 0920	Traffic Control Signs Traffic Control Covering Signs Type I	DAY I EACH	1, 613. 000 7. 000	1, 613. 000 7. 000
0260	643. 1050	Traffic Control Signs PCMS	DAY	222. 000	222. 000
0270	643. 2000	Traffic Control Detour (project) 001. 1206-04-68		1. 000	1. 000
0280	643. 3000	Traffic Control Detour Signs	DAY	3, 025. 000	3, 025. 000
0290	646. 0106	Pavement Marking Epoxy 4-Inch	LF	2, 667. 000	2, 667. 000
0300	646. 0126	Pavement Marking Epoxy 8-Inch	LF	125. 000	125. 000
0310		Pavement Marking Grooved Wet Reflecti Contrast Tape 8-Inch		986. 000	986. 000
0320 0330	647. 0746 649. 0400	Pavement Marking Diagonal Epoxy 24-In Temporary Pavement Marking Removable Tape 4-Inch	ch LF LF	256. 000 1, 946. 000	256. 000 1, 946. 000
0340	649. 2100	Temporary Raised Pavement Markers	EACH	102.000	102.000
0350	690. 0250	Sawi ng Concrete	LF	115. 000	115. 000
0360	SPV. 0060	Special 001. Temporary Thrie Beam Connection	EACH	2. 000	2. 000
0370	SPV. 0060	Special 002. Repositioning Traffic Control Devices For Mainline Closures		10.000	10. 000
0380	SPV. 0090	Special 001. Traffic Channelizing Cur System Furnished		457. 000	457. 000
0390	SPV. 0090	Special 002. Traffic Channelizing Cur System Installed	b LF	909. 000	909. 000

DATE 27	JUL15	E S	TIMAT	E OF QUAN	T I T I E S 1206-04-68
NUMBER		ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0400	SPV. 0090	Special 003. Temporary Pavement Marking Wet Reflective Cntrst Removable Tape 4-Inch	LF	6, 057. 000	6, 057. 000
0410	SPV. 0090	Special 004. Temporary Pavement Marking Wet Reflective Cntrst Removable Tape 8-Inch	LF	610.000	610. 000
0420	SPV. 0090	Special 005. Traffic Control Gawk Screen Furnished	LF	775. 000	775. 000
0430	SPV. 0090	Special 006. Traffic Control Gawk Screen Installed	LF	1, 488. 000	1, 488. 000
0440	SPV. 0090	Special 007. Removing Pavement Markings Water Blasting	LF	3, 342. 000	3, 342. 000
0450	SPV. 0180	Special 001. Concrete Pavement Approach Slab HES Special	SY	105. 000	105. 000

**MOBILIZATION** 

619.1000

MOBILIZATION
AY EACH

 ROADWAY
 EACH

 PROJECT 1206-04-68
 1

 PROJECT 1206-04-68 TOTAL:
 1

**CONCRETE ITEMS** 

STAGE 2 SUBTOTAL

PROJECT 1206-04-68 TOTAL

204.0100 690.0250 305.0120 SPV.0180.001 CONCRETE SAWING BASE AGGREGATE PAVEMENT **REMOVING** CONCRETE APPROACH DENSE PAVEMENT PAVEMENT 1 1/4-INCH SLAB HES SPECIAL ROADWAY STATION OFFSET SY LF TON SY STAGE 1 USH 12 WB 563WB+64 - 563WB+88 LT 45 20 45 USH 12 WB 563WB+64 - 563WB+85 63 45 20 STAGE 1 SUBTOTAL 63 45 STAGE 2 USH WB 12 563WB+64 - 563WB+92 LT 60 52 27 60

60

105

52

115

27

47

**RUMBLE STRIPS** 

416.1110 CONCRETE SHOULDER

2,717

RUMBLE STRIPS

ROADWAY STATION OFFSET LF
STAGE 2

USH 12 WB 556WB+00 - 560WB+16 LT 415 USH 12 WB 556WB+00 - 572WB+00 RT 702 USH 12 WB 564WB+92 - 571WB+94 LT 1,600

PROJECT 1206-04-68 TOTAL 2,717

STAGE 2 SUBTOTAL

**CONCRETE BARRIER TEMPORARY PRECAST ITEMS** 

60

105

			CONCRETE	DANNILK I LIVIE ON	ANTENLUASTITLINIS			
	603.8000	603.8125	614.0905	SPV.0060.001	SPV.0090.001	SPV.0090.002	SPV.0090.005	SPV.0090.006
	CONCRETE BARRIER	CONCRETE BARRIER	CRASH	TEMPORARY	TRAFFIC CHANNELIZING	TRAFFIC CHANNELIZING	TRAFFIC CONTROL	TRAFFIC CONTROL
	TEMPORARY PRECAST	TEMPORARY PRECAST	CUSHIONS	THRIE BEAM	CURB SYSTEM	CURB SYSTEM	GAWK SCREEN	GAWK SCREEN
	DELIVERED	INSTALLED	TEMPORARY	CONNECTION	FURNISHED	INSTALLED	FURNISHED	INSTALLED
ROADWAY	LF	LF	EACH	EACH	LF	LF	LF	LF
STAGE 1								
USH 12 WB	950	950	1	1	457	457	700	700
STAGE 1 SUBTOTAL	950	950	1	1	457	457	700	700
STAGE 2								
USH 12 WB	75	788		1		452	75	788
STAGE 2 SUBTOTAL	75	788		1		452	75	788
PROJECT 1206-04-68 TOTAL	1,025	1,738	1	2	457	909	775	1,488

PROJECT NO: 1206-04-68 HWY: USH 12/18 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E** 

FILE NAME: \\MADW00\\NGRPROJ\60002\\t1\cds\030201\_mq.ppt PLOT BY: HNTB Corp PLOT NAME: 030201\_mq1 PLOT SCALE: 1:1

# 3

# TRAFFIC CONTROL ITEMS

		643.0200 TRAFFIC	643	3.0300	643	3.0420	643	.0705	643	3.0715	643	3.0800	643	3.0900	643	.1050	643.0920	643.2000	643	3.3000	SPV.0060.002
		CONTROL					TRA	AFFIC	TRA	AFFIC							TRAFFIC				REPOSITIONING
		SURVEILLANCE			TD	AFFIC		NTROL		NTROL	TD	AFFIC			TDA	\FFIC	CONTROL	TRAFFIC	TD	AFFIC	TRAFFIC CONTROL
		AND	то	AFFIC		NTROL		RNING		RNING		NTROL	TD	AFFIC		TROL	COVERING	CONTROL		NTROL	DEVICES
		MAINTENANCE		NTROL		RICADES		HTS		HTS		ROW		NTROL		GNS	SIGNS	DETOUR		TOUR	FOR MAINLINE
	DURATION	(1206-04-68)		RUMS		PEIII		PEA		PEC		ARDS		GNS		CMS	TYPEII	1206-04-68		IGNS	CLOSURE
ROADWAY	DAYS	DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS		DAYS	EACH	EACH		DAYS	EACH
	Bitto	D/(10	<u> </u>	Bitto	Втоп	Britio	<u> </u>	Britio	<u> </u>	D/ (TO	<u> </u>	D/ (10	<u> </u>	Ditto	<u> </u>	Bitto	<u> </u>	<u> </u>	<u> </u>	Bitto	<u> </u>
PRECONSTRUCTION																					
JOHN NOLEN DRIVE	7														1	7					
RIMROCK ROAD WB ONRAMP	7														1	7					
USH 12 WB	7														1	7					
PRECONSTRUCTION SUBTOTAL																21					
STAGE 1 CONSTRUCTION																					
USH 12 WB	12		78	936	5	60	10	120	30	360	2	24	47	564	4	48					
STAGE 1 SUBTOTAL				936		60		120		360		24		564		48					
STAGE 2 CONSTRUCTION																					
USH 12 WB	12		78	936	5	60	10	120	30	360	2	24	42	504	4	48					
STAGE 2 SUBTOTAL				936		60		120		360		24		504		48					
NIGHTTIME TWO LANE CLOSURES																					
USH 12 WB	10		97	970	2	20	4	40	27	270	3	30	15	150							10
NIGHTTIME SUBTOTAL				970		20		40		270		30		150							10
RUMBLE STRIP INSTALL																					
USH 12 WB	2		81	162	2	4	4	8	14	28	2	4	10	20							
RUMBLE STRIP INSTALL SUBTOTAL				162		4		8		28		4		20							
RIM ROCK RAMP CLOSURE																					
RIMROCK ROAD	25		26	650	8	200	16	400					7	175							
RIMROCK SUBTOTAL				650		200		400						175							
<u>DETOUR</u>																					
RIMROCK ROAD	25												4	100	3	75	2		113	2,825	
	25												- 4						113		
DETOUR SUBTOTAL														100		75	2			2,825	
UNDISTRIBUTED		35		400		50		100		50	-			100		30	5	1		200	
PROJECT 1206-04-68 TOTAL		35		4,054		394		788		1,068		82		1,613		222	7	1		3,025	10

<sup>\*</sup> PROVIDED FOR INFORMATION ONLY

PROJECT NO: 1206-04-68 HWY: USH 12/18 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E** 

# TEMPORARY PAVEMENT MARKINGS AND PAVEMENT MARKING REMOVALS

					<b>—</b>		· · · · - ·		
		SPV.00	90.003	SPV.0090.004	649.0400			649.2100	SPV.0090.007
		TEMPORARY PAVEMENT		TEMPORARY PAVEMENT	TEMPORARY			TEMPORARY	<b>REMOVING</b>
		MARKING WE	T REFLECTIVE	MARKING WET REFLECTIVE		PAVEMENT MAR	KING	RAISED	PAVEMENT
		CONTRAST REMOVABLE TAPE		CONTRAST REMOVABLE TAPE	REMOVABLE TAPE			PAVEMENT	MARKINGS
		4-11	NCH	8-INCH		4-INCH		MARKERS	WATER BLASTING
		YELLOW	WHITE	WHITE	YELLOW	WHITE	3' LINE 9' SKIP		
	ROADWAY	LF	LF	LF	LF	LF	LF	EACH	LF
STAGE 1	USH 12 WB	480	4,890	305	635	635	41	55	3,342
STAGE 1 SUE	BTOTAL	480	4,890	305	635	635	41	55	3,342
STAGE 2	USH 12 WB		687	305		635		47	
STAGE 2 SUE	BTOTAL		687	305		635		47	
PROJECT 1206-04-68 TOTAL		6,0	 57	610		1,946		102	3,342

# **INLET PROTECTION**

# FINAL PAVEMENT MARKING

		646	6.0106	646.0126	647.0746	646.0843.S
		PAV	'EMENT	PAVEMENT	PAVEMENT	PAVEMENT MARKING
		MA	RKING	MARKING	MARKING	GROOVED WET
		EF	POXY	<b>EPOXY</b>	DIAGONAL EPOXY	REFLECTIVE
		4-	INCH	8-INCH	24-INCH	CONTRAST TAPE 8-INCH
	YELLOW	WHITE	12.5' LINE, 37.5' SKIP	3' LINE, 9' SKIP	WHITE	WHITE
ROADWAY	LF	LF	LF	LF	LF	LF
USH 12 WB	1,115	689	863	125	256	986
		2,	667	125	256	986
PROJECT 1206-04-68 TOTAL		2,	667	125	256	986

PROJECT NO: 1206-04-68 HWY: USH 12/18 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET: **E** 

# Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRI ER 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
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15D14-02	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D16-02	TRAFFIC CONTROL, EXIT RAMP CLOSURE





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

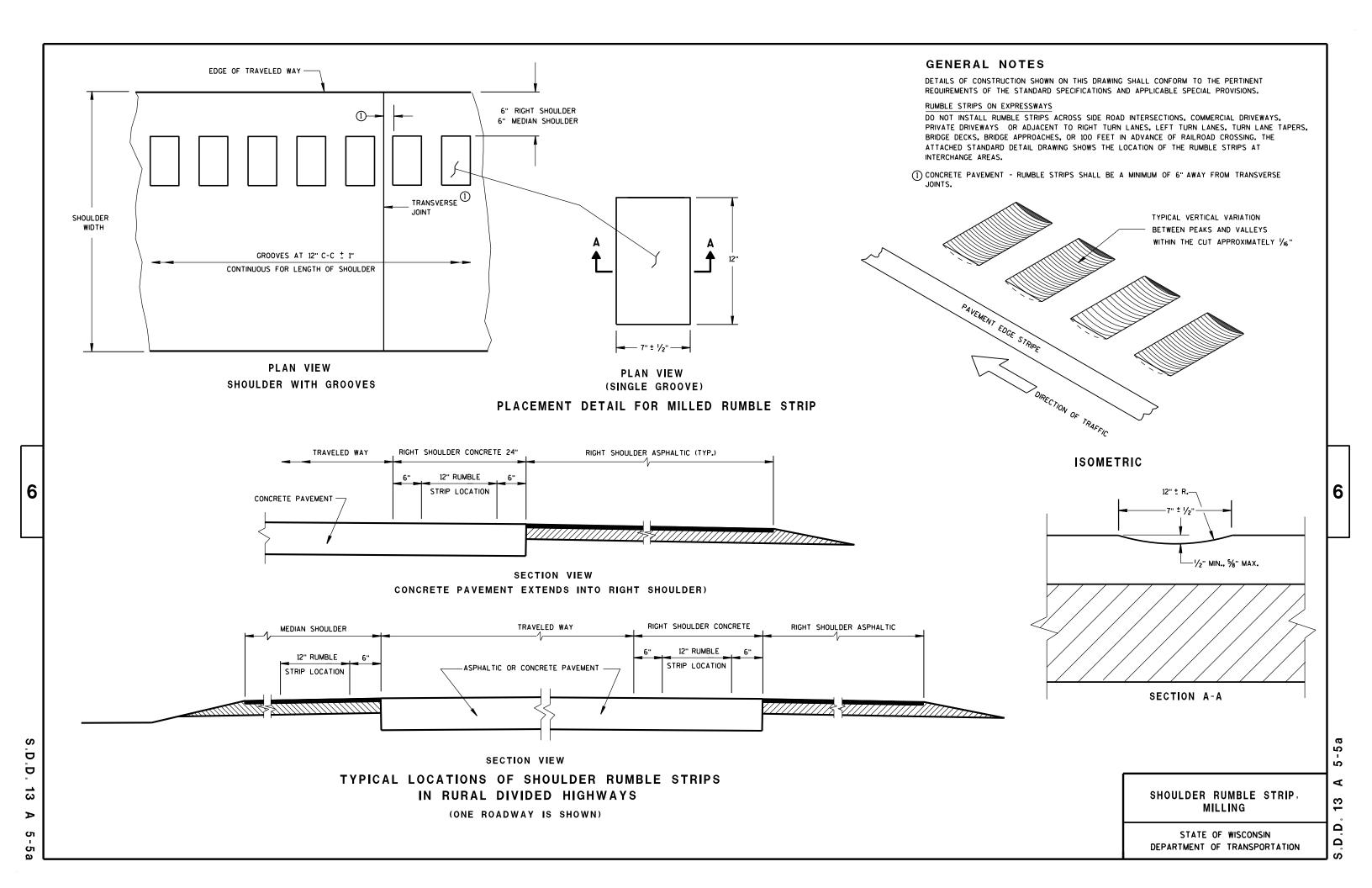
10/16/02

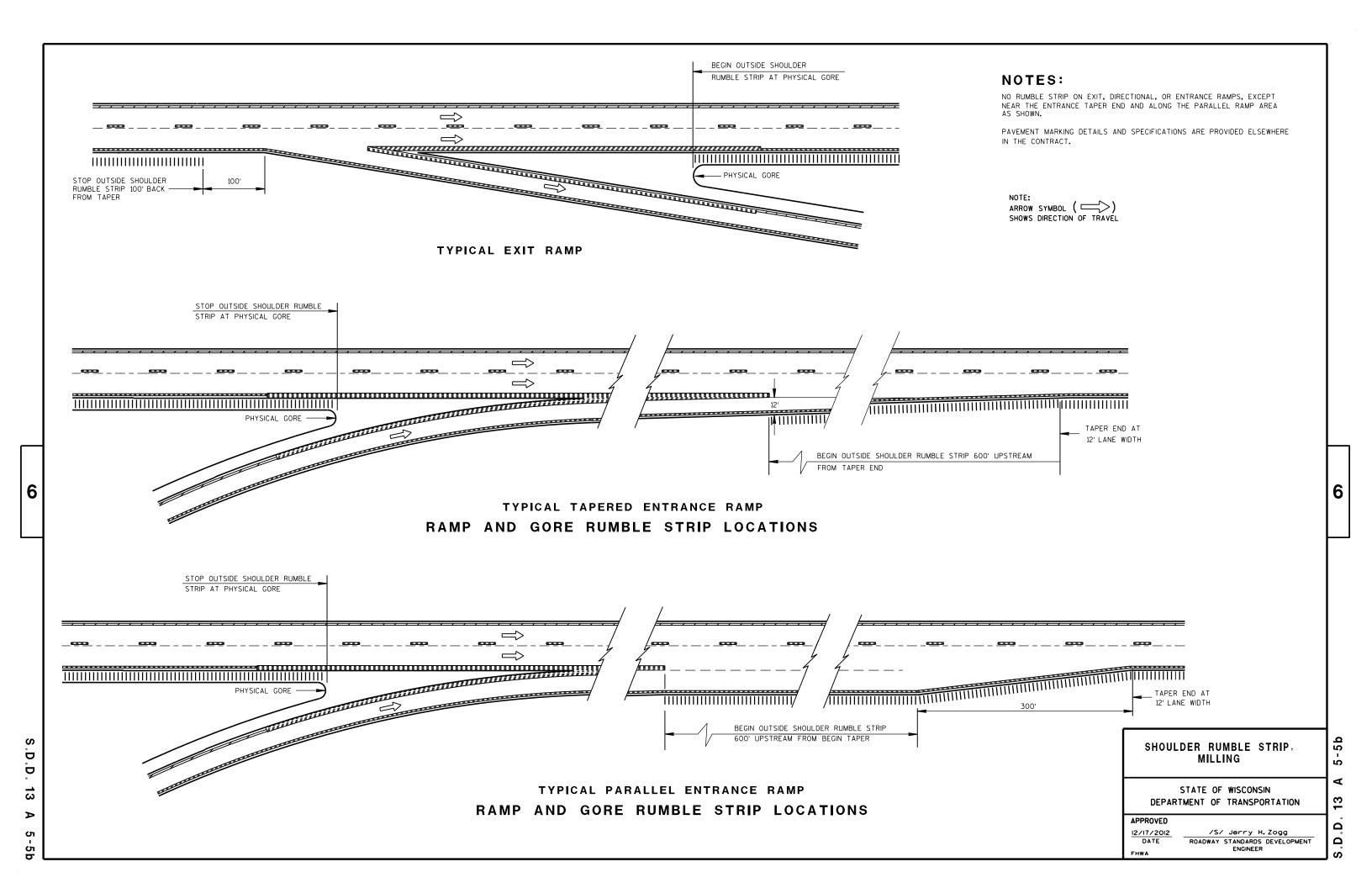
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

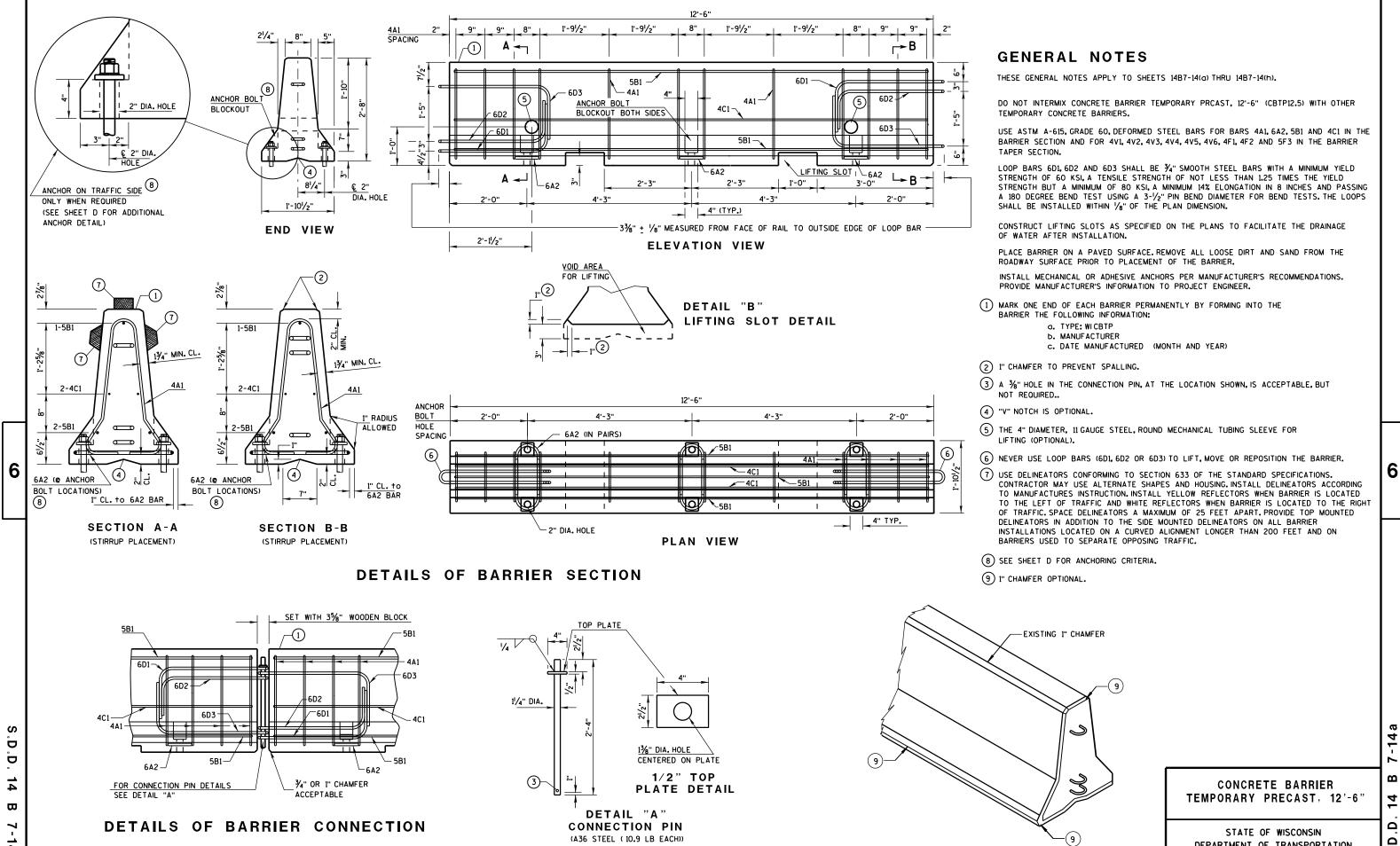
0

ш

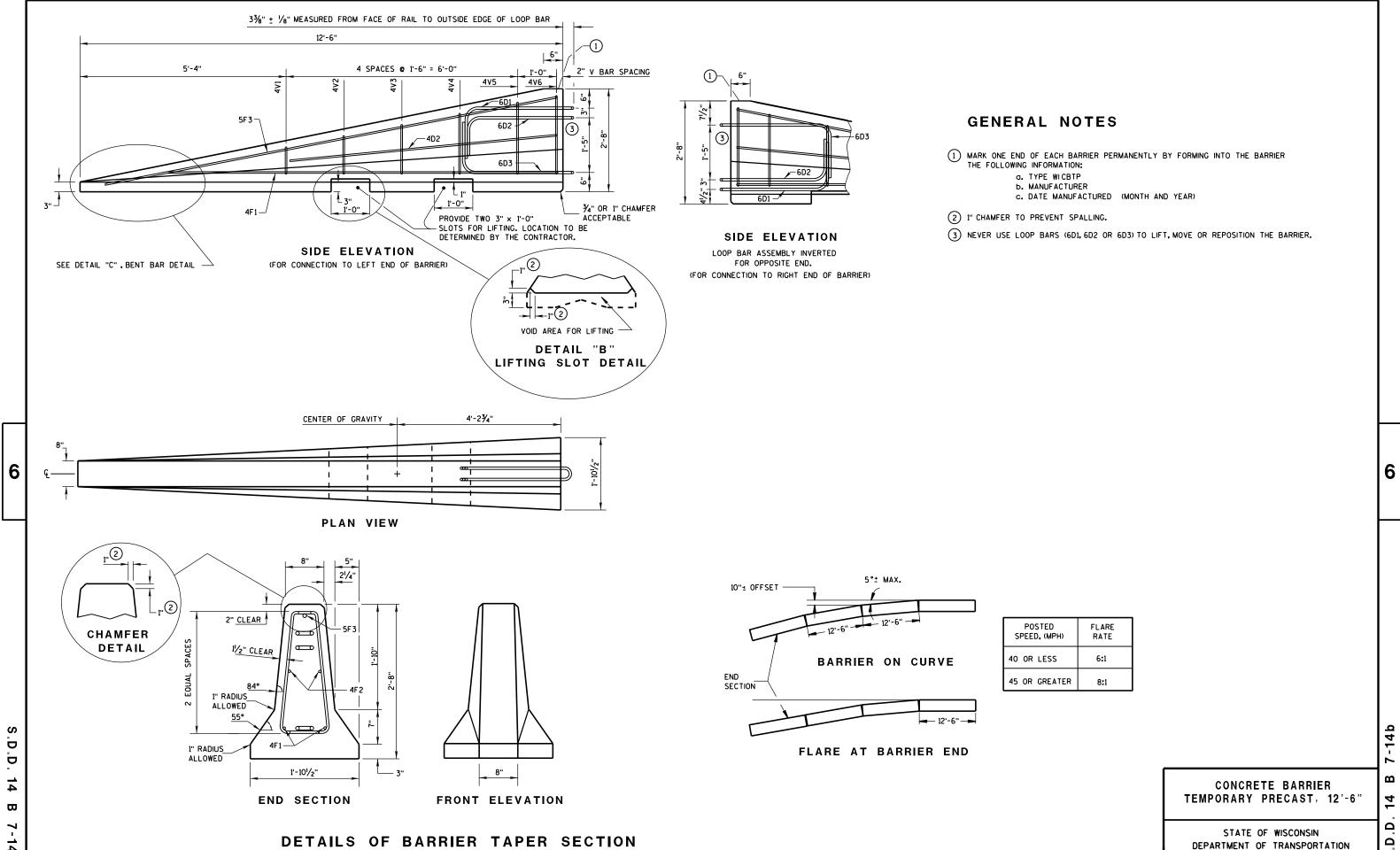
 $\infty$ 







DEPARTMENT OF TRANSPORTATION



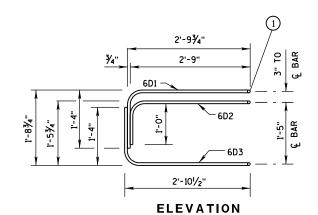
Ω

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

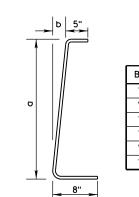
# BARRIER TAPER SECTION BILL OF MATERIALS

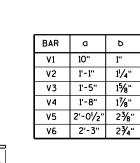
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TAPEN SECTION							
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.				
4V1	4	2	1'-11"				
4V2	4	2	2'-2"				
4٧3	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"				
L	LOOP ASSEMBLY						
6D1	6	1	8'-5"				
6D2	6	1	7'-7"				
6D3	6	1	8'-6"				
		•	•				



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

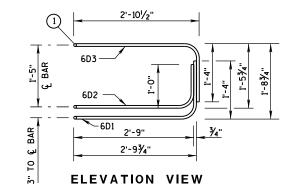
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

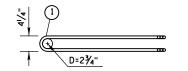
TAPER BARRIER SECTION

# BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

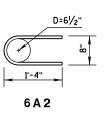
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

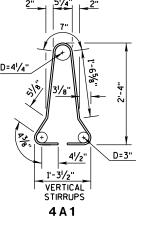




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



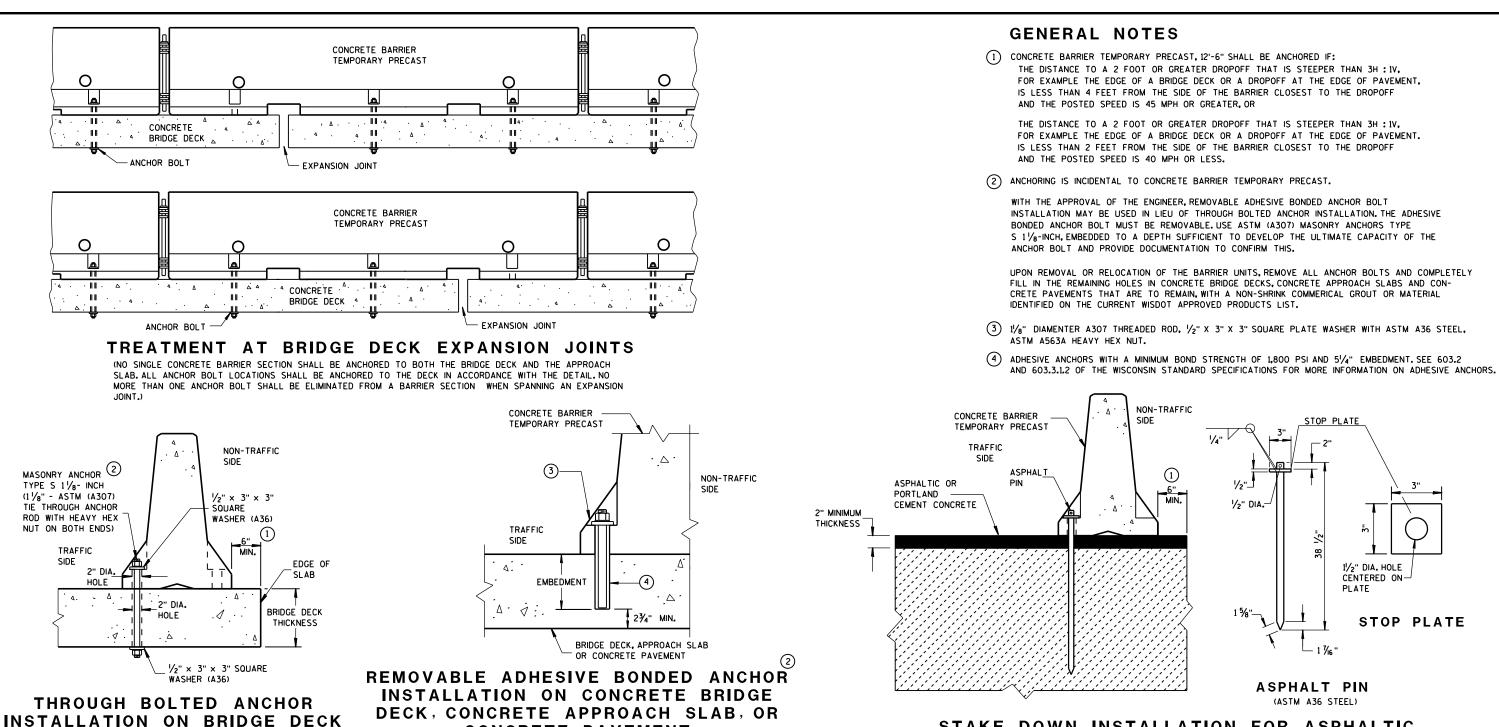


# BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

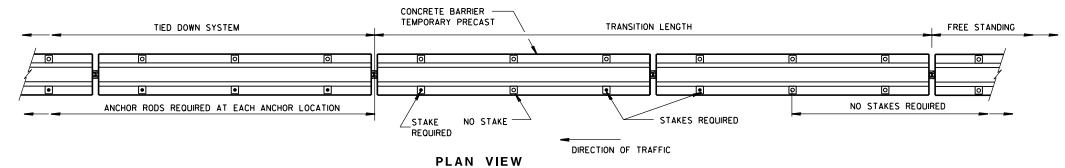
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



# STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



**CONCRETE PAVEMENT** 

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

6

D

 $\Box$ 

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

(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"

11/2" DIA. HOLE

CENTERED ON-

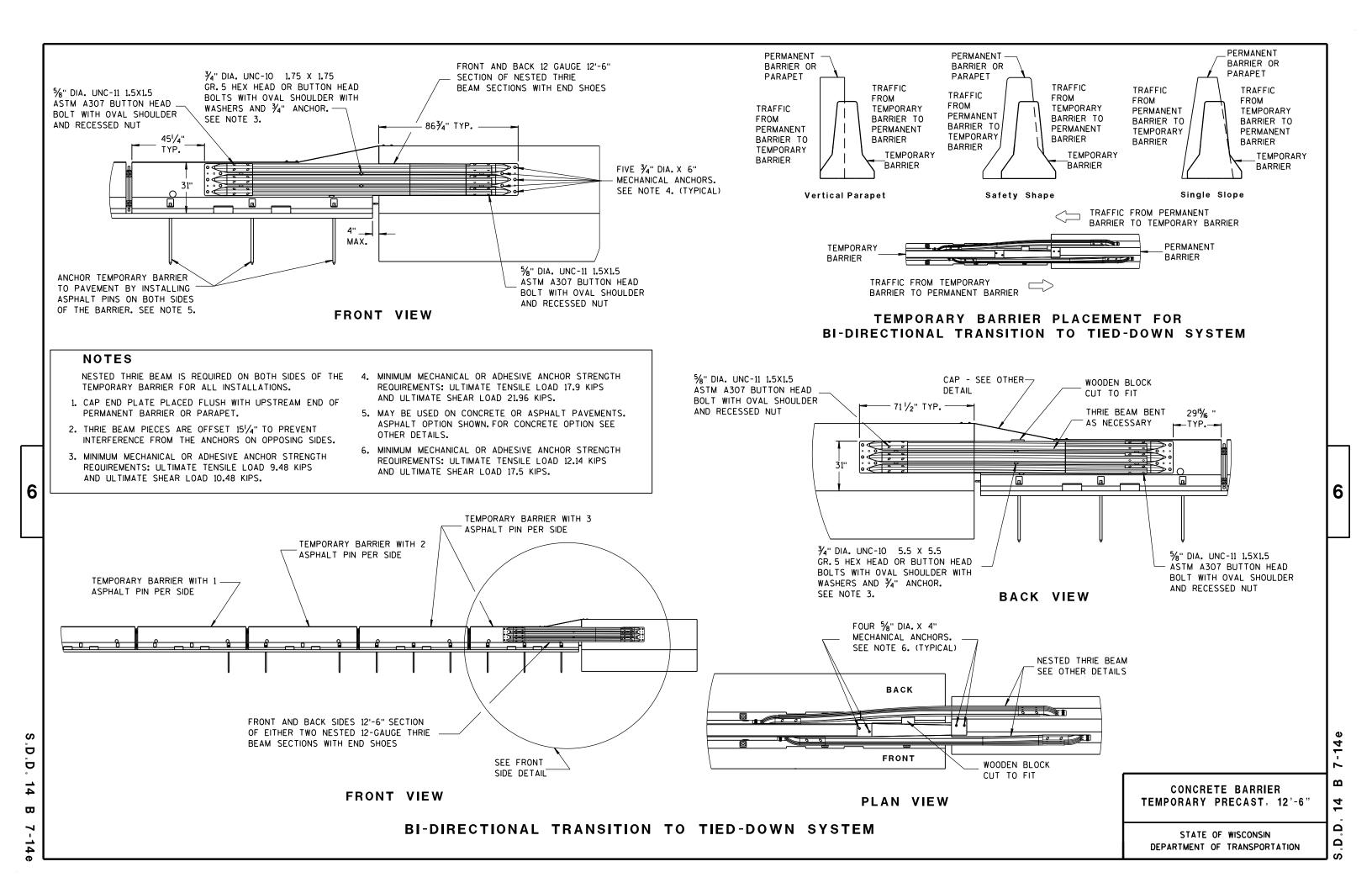
STOP PLATE

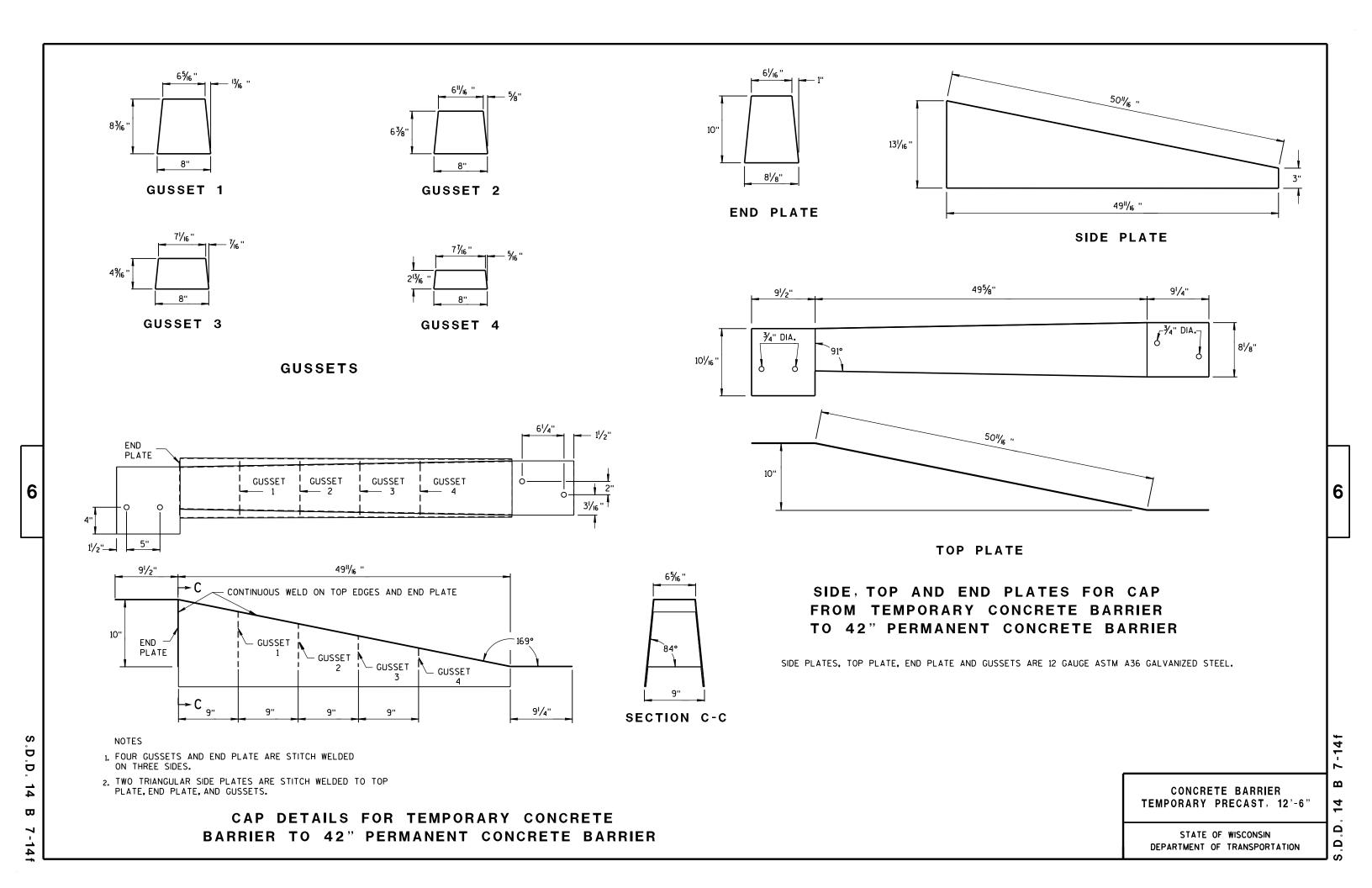
PLATE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6

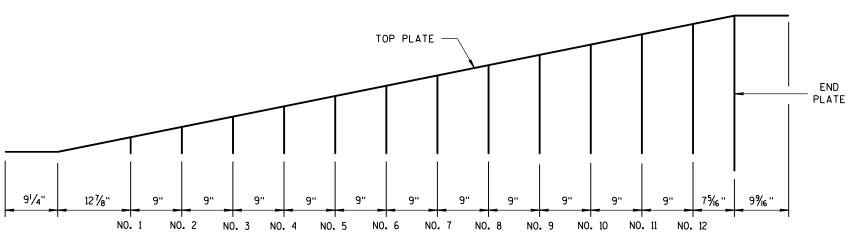
4 Δ Δ





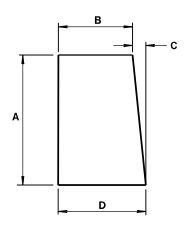
6

D Ď



**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.	A	В	С	D			
1	21/8"	73/4"	1/4"	8			
2	4"/16 "	7% "	1/2"	8			
3	61/2"	73/8"	11/16 "	81/16 "			
4	85/16"	73/16"	7∕8"	8½ <sub>6</sub> "			
5	101/8"	7"	1 ½ <sub>6</sub> "	81/16 "			
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> / <sub>16</sub> "	1 1/4"	81/16"			
7	13¾"	65%"	1 ½6"	81/16"			
8	15% "	6¾6"	1 % "	81/16"			
9	173/8"	61/4"	1 <sup>13</sup> / <sub>16</sub> ''	8½6"			
10	193/6"	6½ <sub>6</sub> "	1 15/16 "	81/16 "			
11	21"	57/8"	23/6"	8½ <sub>6</sub> "			
12	2213/16 "	5 <sup>11</sup> / <sub>16</sub> "	25/6"	8½ <sub>6</sub> "			

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

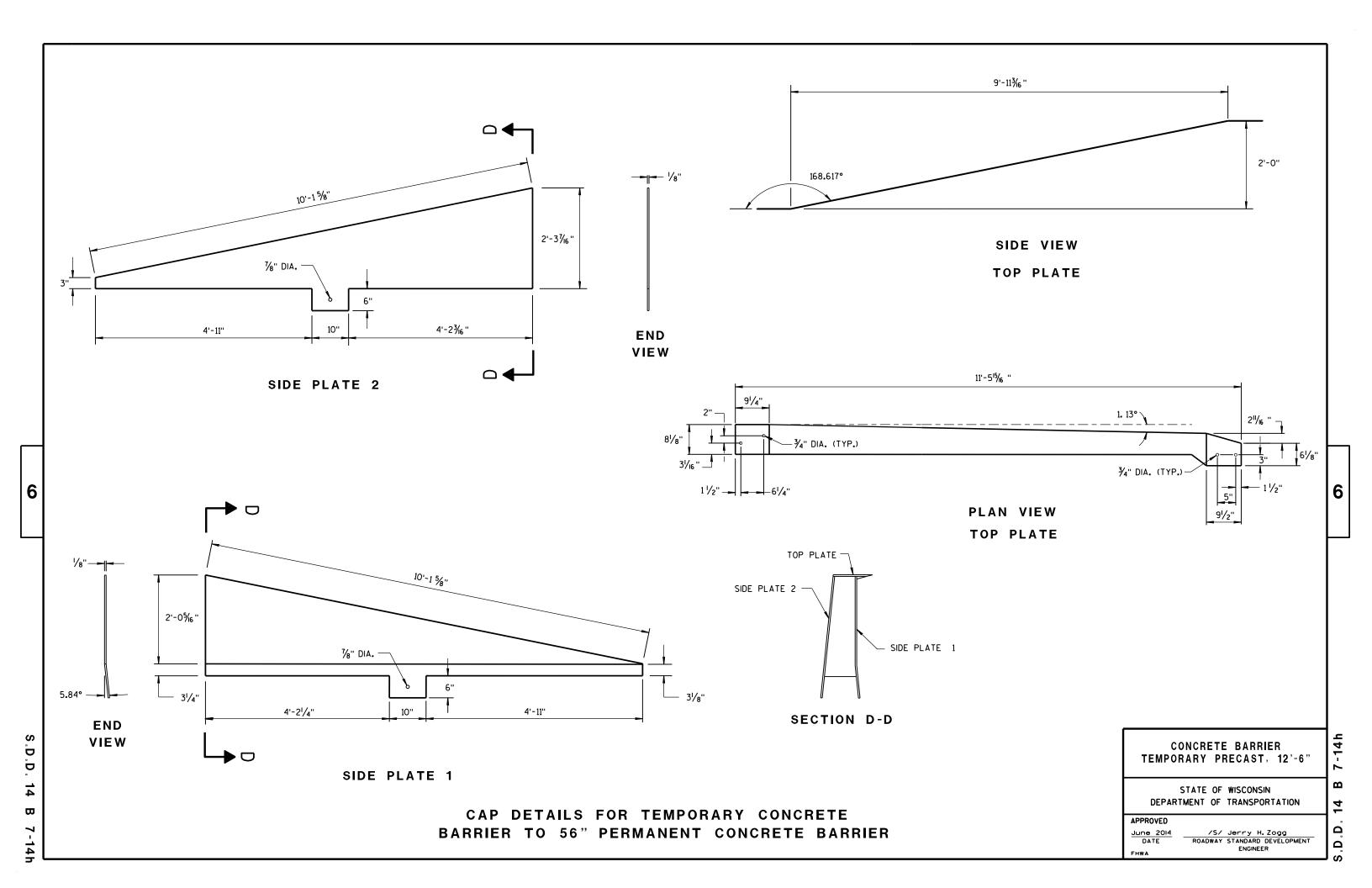
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

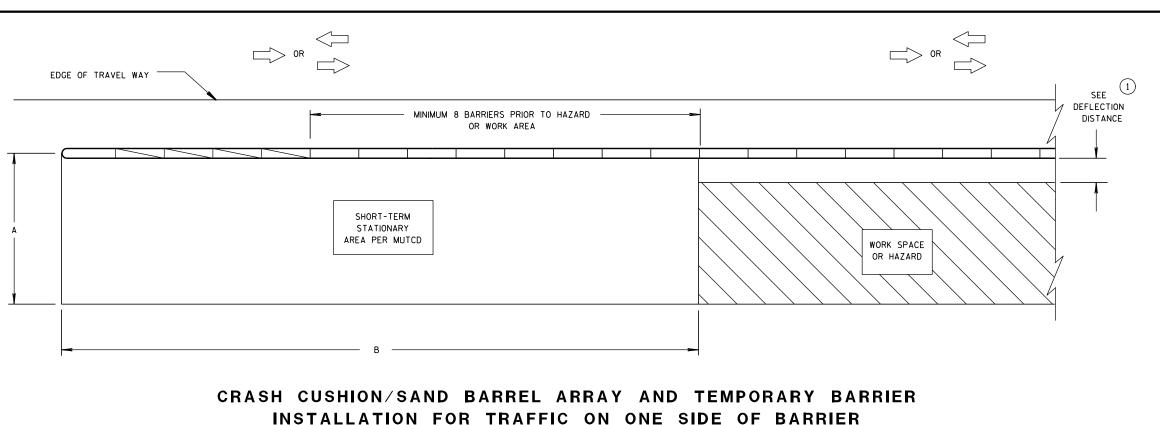
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Ω

Ω





# DIMENSION A TABLE (2)

		DIMENSION A		
FACILITY	POSTED SPEED	MIN.	МАХ.	
	MPH	FT	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
· · · · · · · · · · · · · · · · · · ·	

# LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

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

OR CONCRETE PARAPET

PERMANENT CONCRETE BARRIER

FREE STANDING TEMPORARY BARRIER

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

OR	
EDGE OF TRAVEL WAY	
EDGE OF TRAVEL WAY	

# 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.

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.

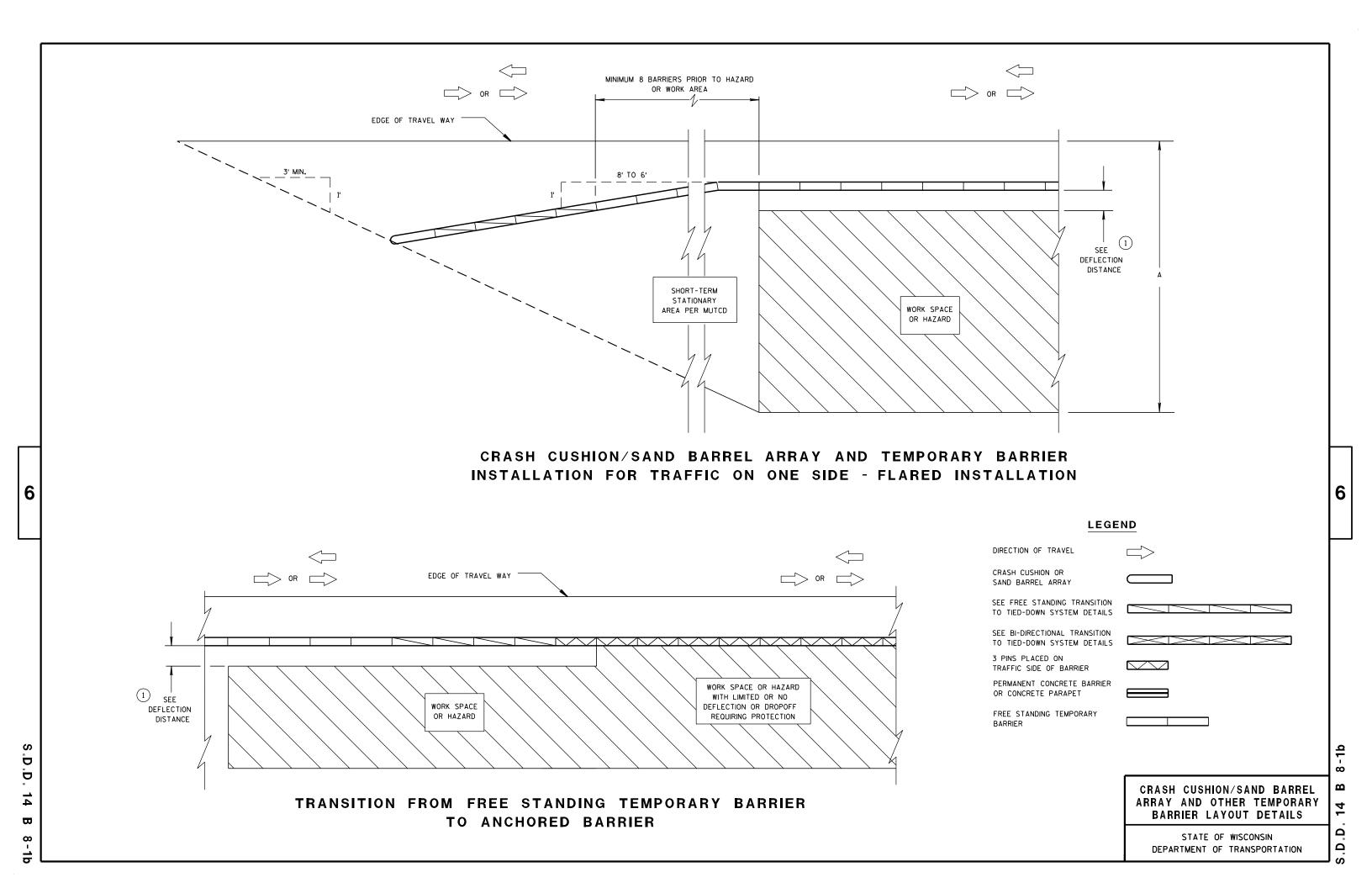
TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

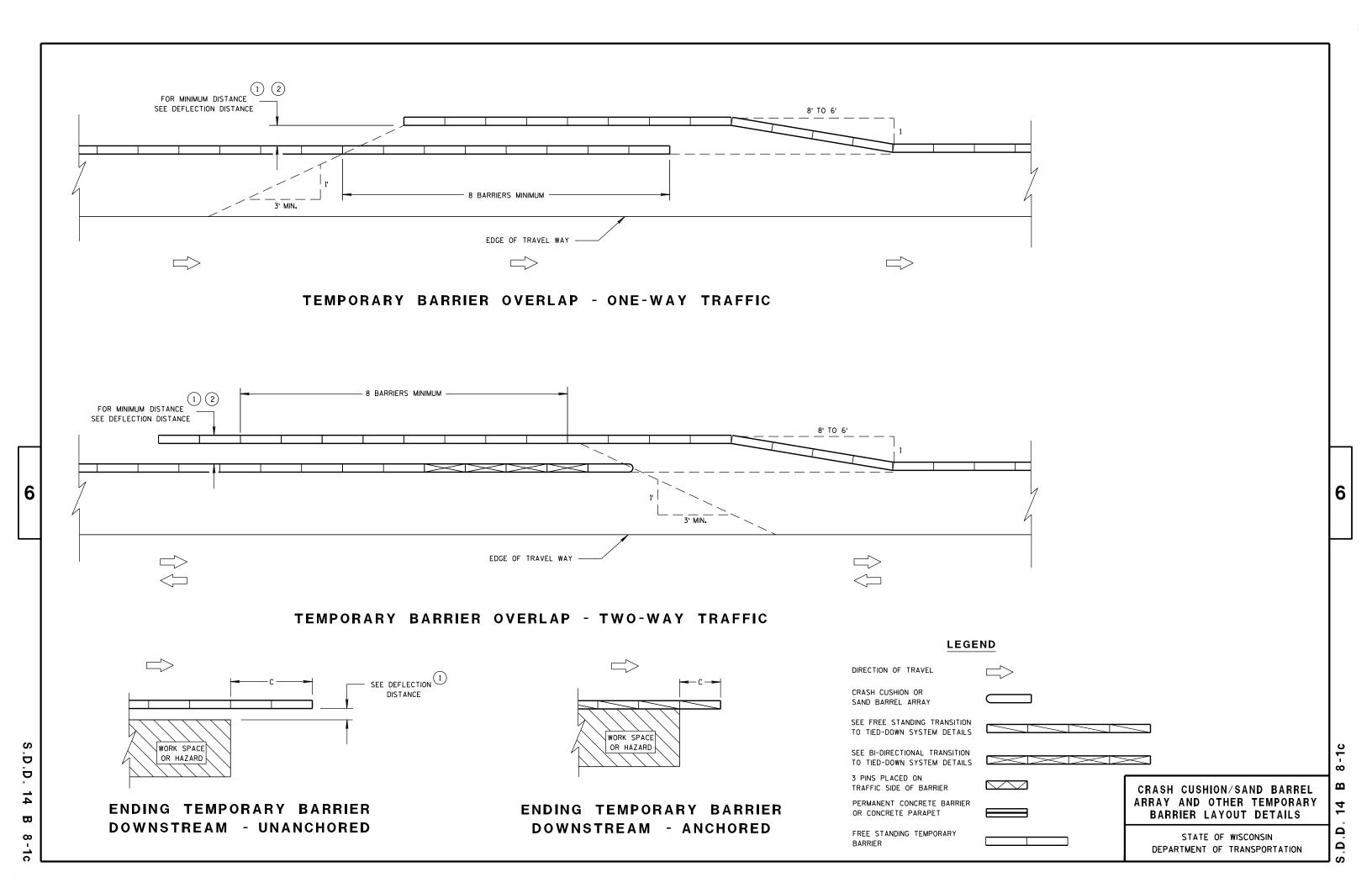
FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

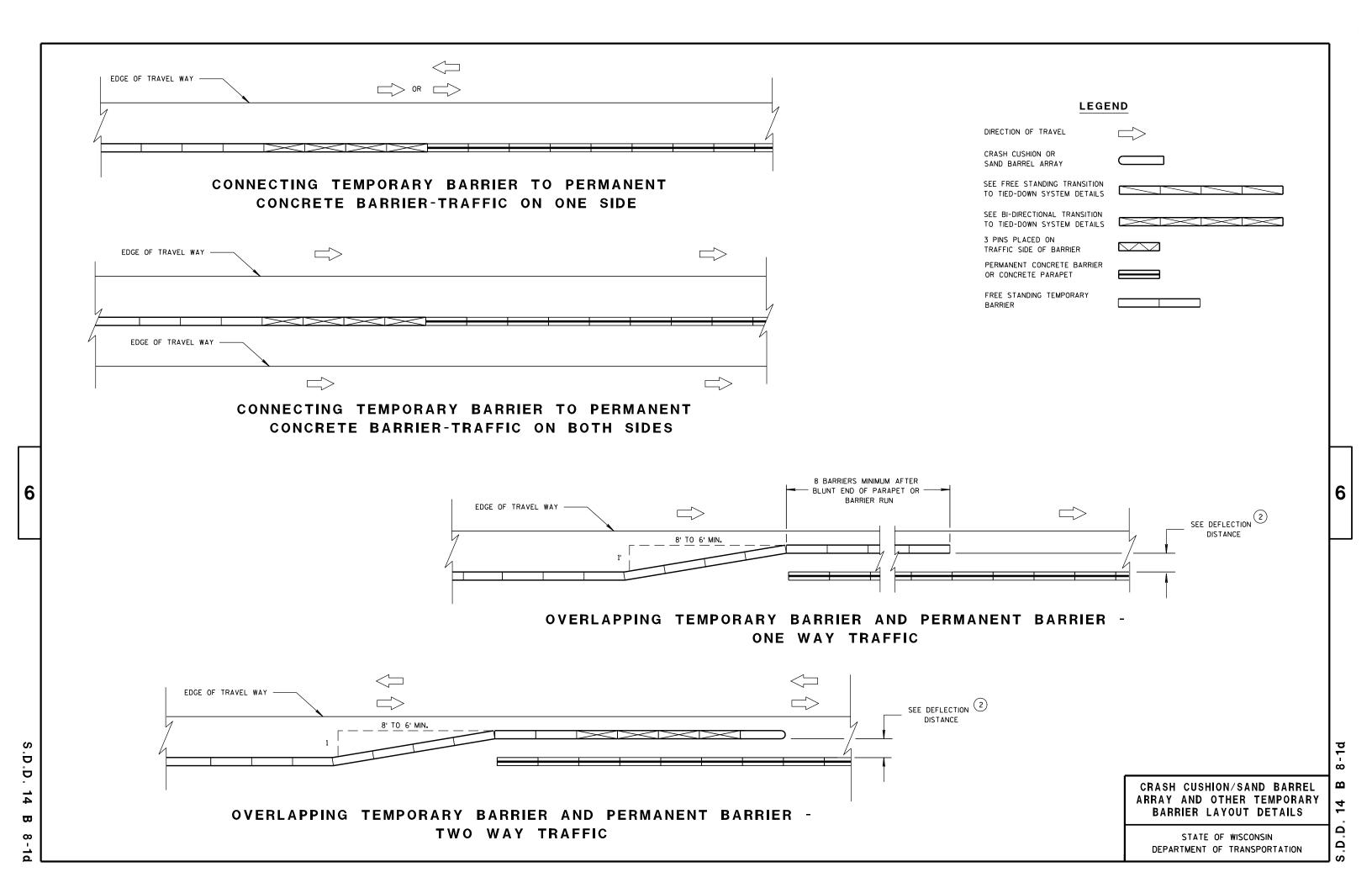
SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

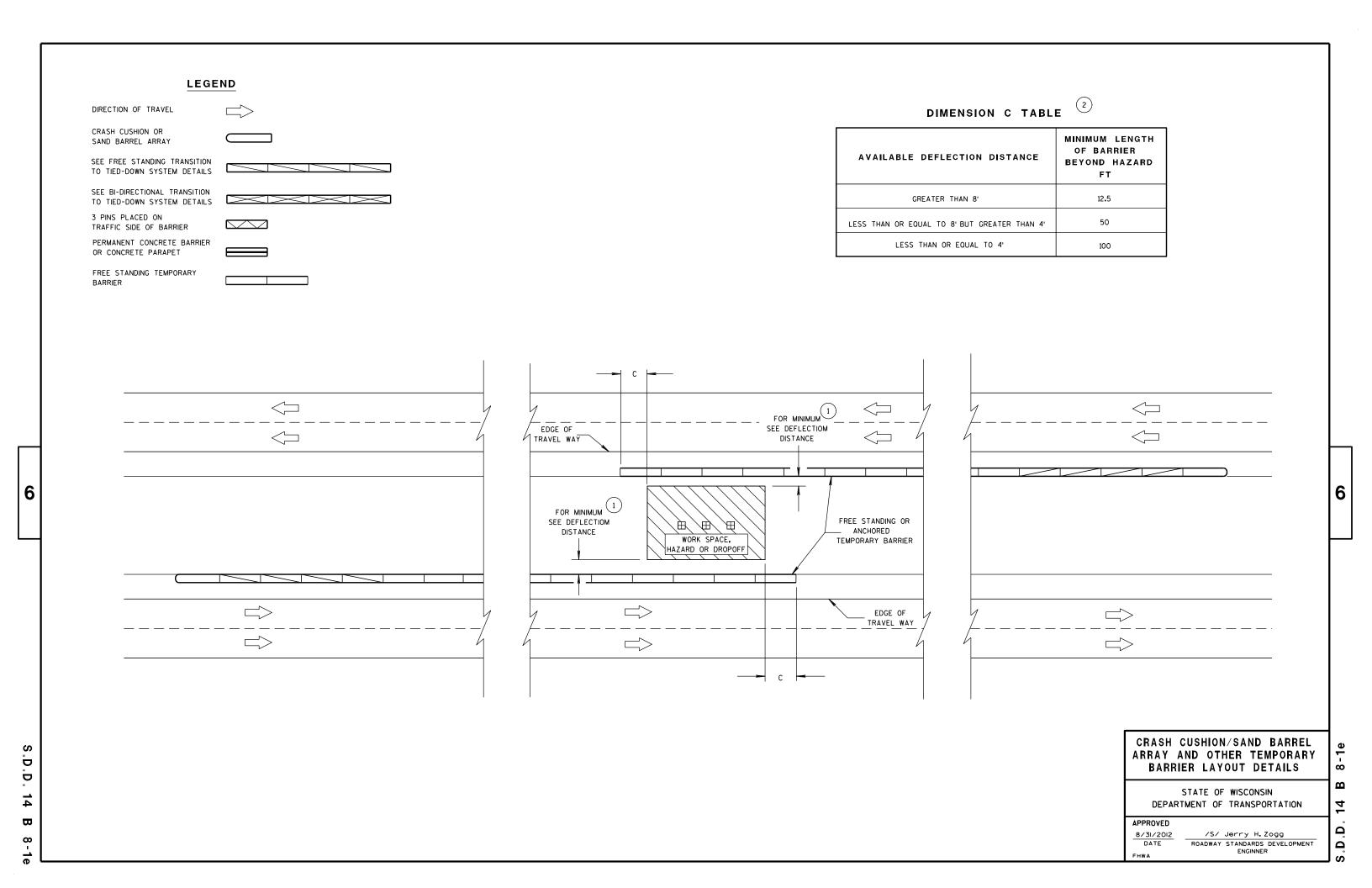
- (1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- (2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

Ω Ω

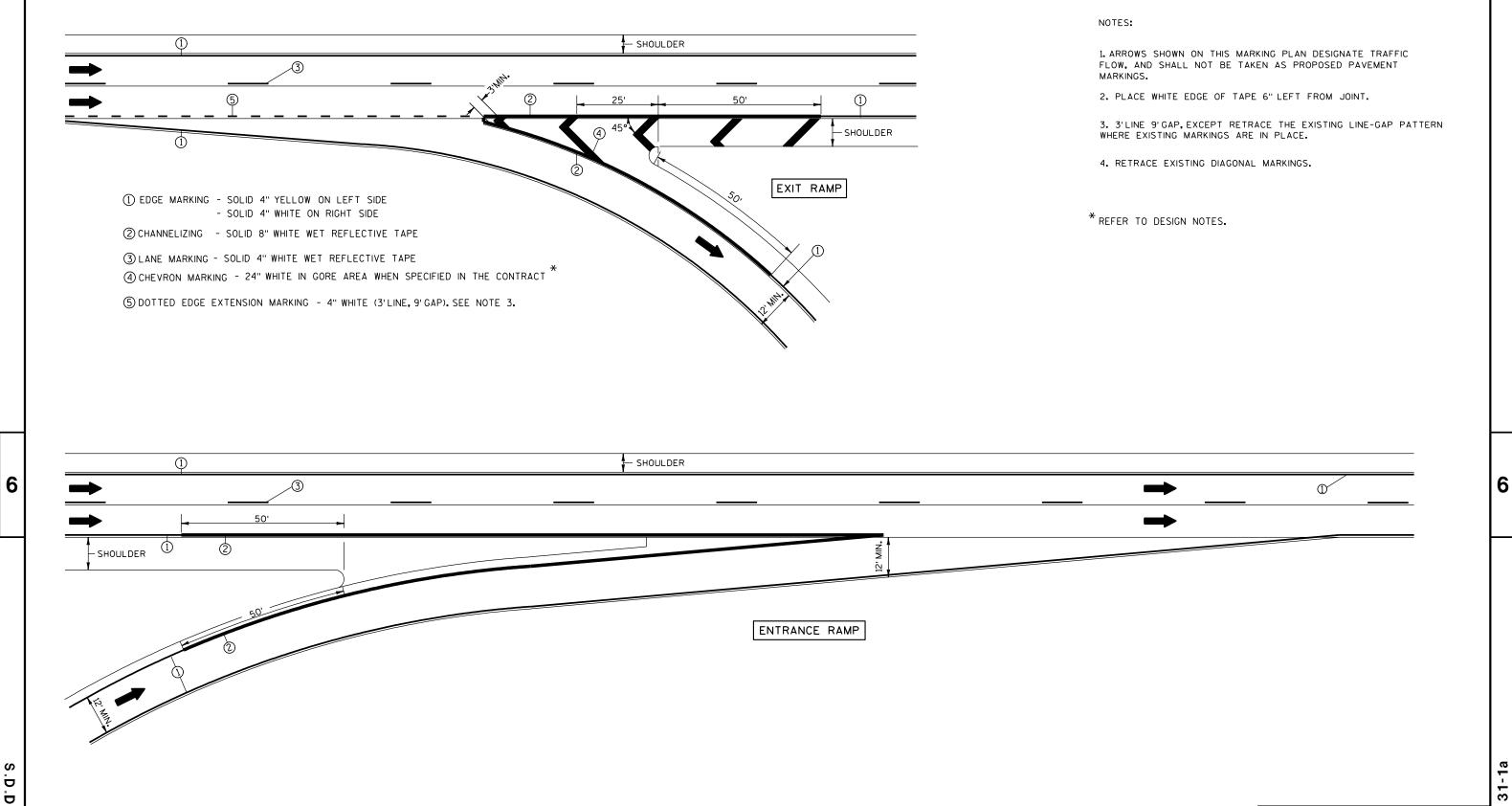










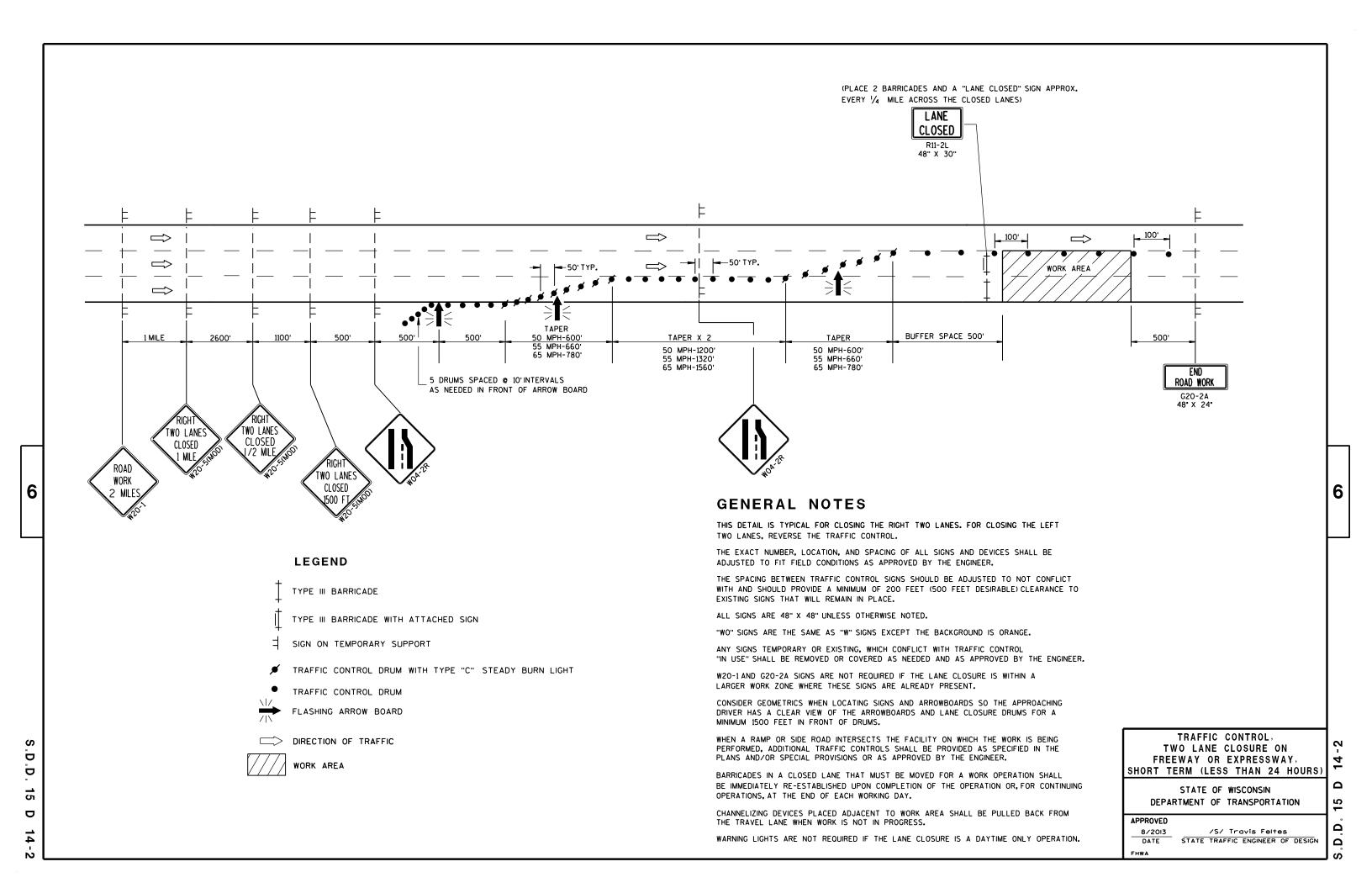


C

3.D.D. 15 C 31-1a

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.

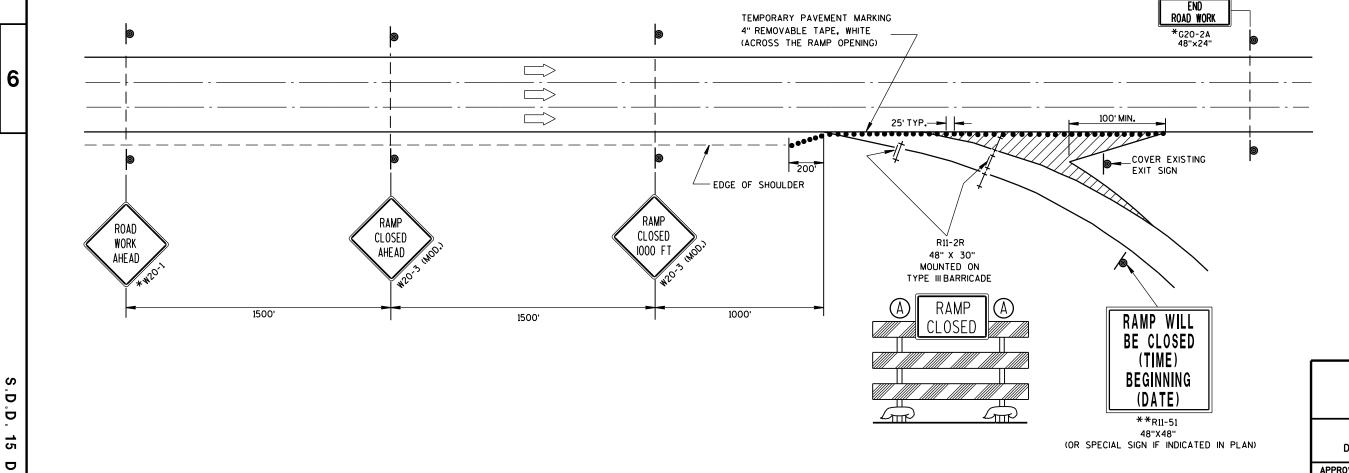
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

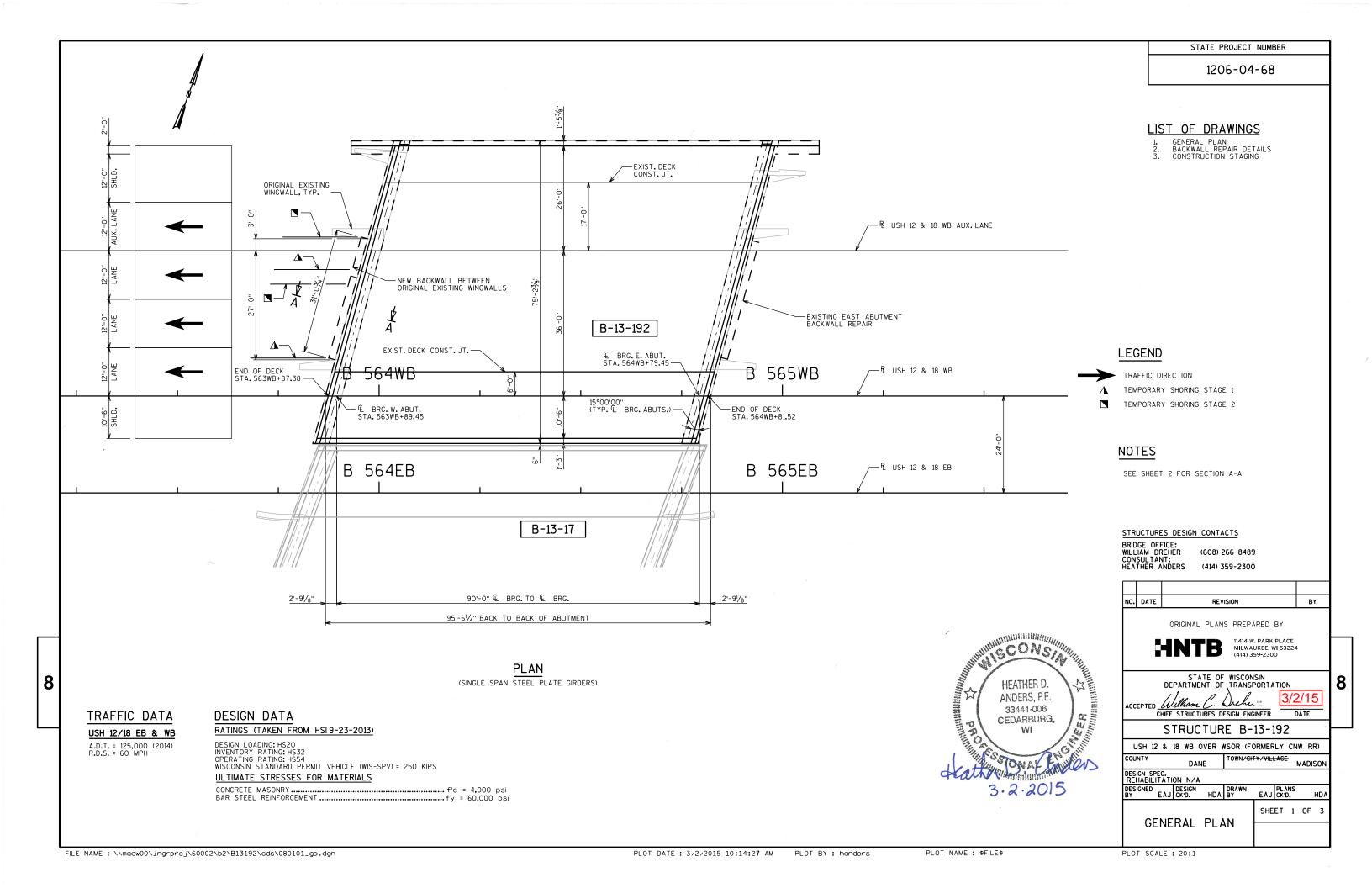
APPROVED 8/2013

B/2013

DATE

STATE TRAFFIC ENGINEER OF DESIGN
FHWA

D.D. 15 D 16



# GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS..

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET.

UNDER THE BID ITEM "MASONRY ANCHORS TYPE L NO.5 BARS", ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

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

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

CLEAN EXISTING ABUTMENT BACKWALL AND FOOTING SURFACES WHERE NEW CONCRETE WILL BE PLACED. CLEAN SURFACES TO REMOVE ALL DIRT AND LOOSE PARTICLES BY EITHER BROOMING AND WATER PRESSURE, OR BY AIR AND WATER PRESSURE. PAYMENT IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

CLEAN AND FILL EXISTING CRACKS IN BACKWALL WITH HYDROPHILIC POLYURETHANE CRACK SEALER. PAYMENT IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

THE EASTBOUND AND WESTBOUND ALIGNMENTS SHOWN ON THE PLANS ARE PARALLEL TO EACH OTHER.

INSTALL AT EXISTING PAVING NOTCH A NEW 1" POLYSTYRENE PAD THE LENGTH OF THE RETROFIT WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

INSTALL BETWEEN NEW CONCRETE BACKWALL AND EXISTING WINGWALL A NEW 1" POLYSTYRENE PAD THE HEIGHT OF EXISTING WALLS WHICH SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

EXISTING UTILITIES ATTACHED TO THE BRIDGE TO REMAIN IN PLACE AND IN SERVICE.

BEVEL EDGES OF EXPOSED CONCRETE TO MATCH EXISTING BEVELS UNLESS OTHERWISE NOTED.

B₩

SECTION A-A (LOOKING SOUTH)

THE EXISTING GROUNDLINE SHALL BE USED AS THE UPPER LIMIT OF EXCAVATION.

# TOP OF EXIST. PAVING NOTCH I'-8" BOTTOM OF APPROACH A504 MASONRY ANCHORS TYPE L NO.5 BAR, EMBED 1-0" MIN. INTO EXISTING ABUTMENT, TYP. B-13-192 W. ABUT. B-13-192 W. ABUT. J-0" TOP OF EXISTING FOOTING/ BOTTOM OF NEW BACKWALL

TOP OF EXISTING FOOTING/ BOTTOM OF NEW BACKWALL

# BACKWALL REPAIR ESTIMATED QUANTITIES

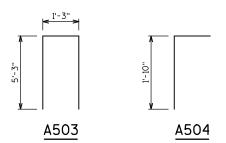
ITEM NO.	UNIT	TOTAL				
206.1000	EXCAVATION FOR STRUCTURES B-13-192	LS	1			
210.0100	BACKFILL STRUCTURE	CY	80			
502.0100	CONCRETE MASONRY BRIDGES	CY	15			
502.5005	CONCRETE MASONRY ANCHORS TYPE L NO.5 BARS	EACH	84			
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,310			
511.1200	TEMPORARY SHORING B-13-192	SF	285			
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6			
	NON-BID ITEMS					
	POLYURETHANE JOINT SEALER	-	-			
	POLYSTYRENE					

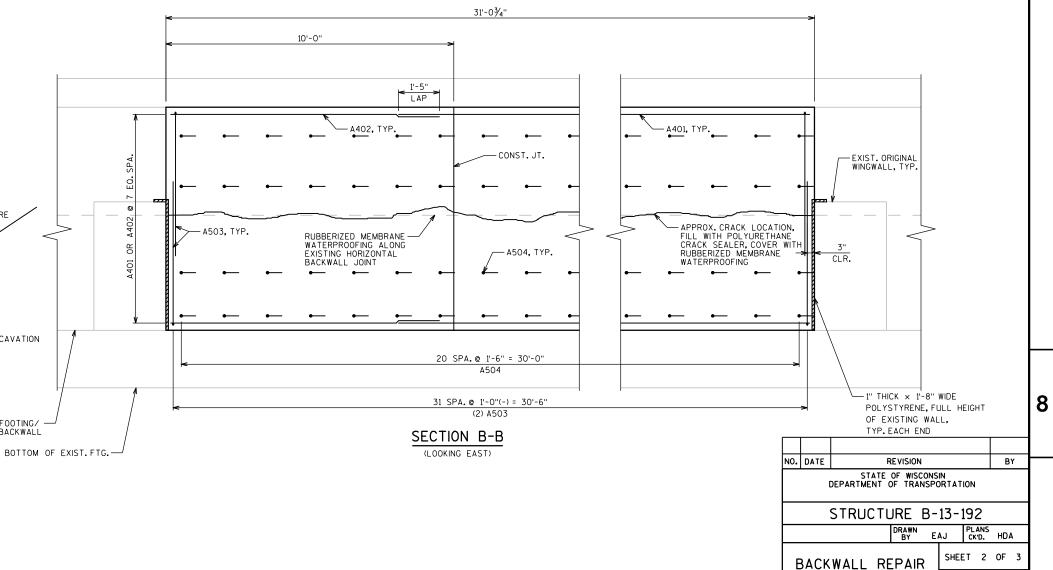
## BILL OF BARS

BAR MARK	C047	NO. REQ'D.	LENGTH	BENZ	SERIES	LOCATION
A401	Х	16	22'-8"			BACKWALL - HORIZ.
A402	Х	16	9'-8"			BACKWALL - HORIZ.
A503	Х	64	11'-6"	Х		BACKWALL - VERT.
A504	Х	84	2'-3"	Х		BACKWALL - ANCHORS

STATE PROJECT NUMBER

1206-04-68





BOTTOM OF EXIST. FTG.

DETAILS

STATE PROJECT NUMBER 1206-04-68 2'-0" SHY 1'-0" SHY 26'-9" WORK ZONE 4'-0" 11'-0" 11'-0" 2'-0" SHY TRAFFIC LANE TRAFFIC LANE TRAFFIC LANE LIMITS OF BACKWALL REPAIR LIMITS BETWEEN ORIGINAL EXISTING WINGWALLS B-13-192 B-13-17 CROSS SECTION THRU ROADWAY STAGE 1 (LOOKING EAST) 11'-0"
TRAFFIC LANE 12'-0" TRAFFIC LANE 11'-0"
TRAFFIC LANE 1'-0" SHY 2'-0" SHY 2'-0" SHY 25'-9" WORK ZONE LIMITS OF BACKWALL REPAIR LIMITS BETWEEN ORIGINAL EXISTING WINGWALLS B-13-192 B-13-17 CROSS SECTION THRU ROADWAY NOTES STAGE 2 8 8 SEE ROADWAY PLANS FOR COMPLETE PROJECT STAGING DETAILS. (LOOKING EAST) NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-13-192 DRAWN EAJ PLANS CKD. HDA SHEET 3 OF 3 CONSTRUCTION STAGING



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov