E JULY 2014

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

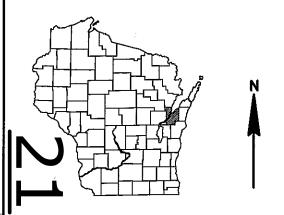
Section No. 4 Right of Way Plat
Section No. 5 Plan and Profile
Section No. 6 Standard Detail Drawings

Section No. 6 Standard Detail Drawings
Section No. 7 Sign Plates
Section No. 8 Structure Plans
Section No. 9 Computer Earthwork Data

Cross Sections

TOTAL SHEETS = 108

Section No. 9



DESIGN DESIGNATION

A.A.D.T. 2014 = 22100 A.A.D.T. 2034 = 28400 D.H.V. = 2800 D.D. = .56 T. = 8.9% DESIGN SPEED = 70 MPH

CONVENTIONAL SYMBOLS

PLAN
CORPORATE LIMITS
PROPERTY LINE
LOT LINE

LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT
REFERENCE LINE
EXISTING CULVERT

PROPOSED CULVERT

(Box or Pipe)
COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

PROFILE
GRADE LINE
ORIGINAL GROUND
MARSH OR ROCK PROFILE
(To be noted as such)
SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

POWER POLE

TELEPHONE POLE

UTILITIES

ELECTRIC — E —
FIBER OPTIC — FO —
GAS — G —
SANITARY SEWER — SAN —
STORM SEWER — SS —
TELEPHONE — T —
WATER — W —
UTILITY PEDESTAL

H

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

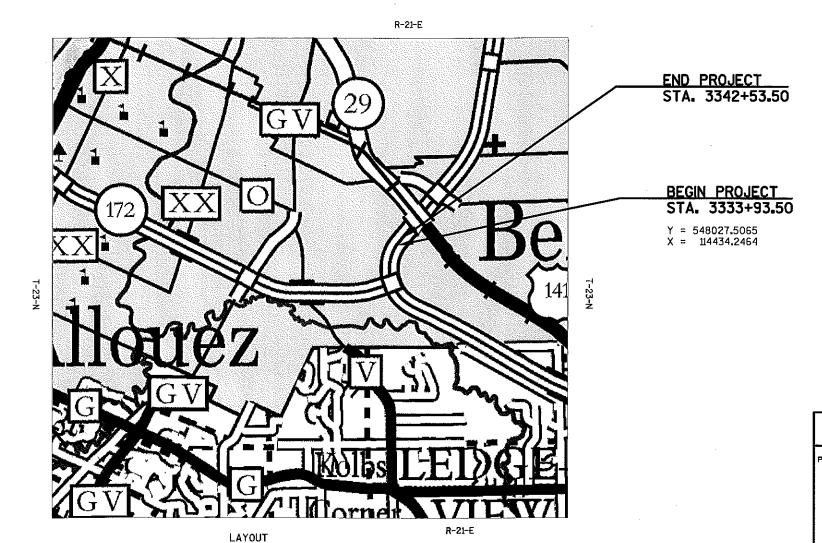
PLAN OF PROPOSED IMPROVEMENT

MANITOWOC-GREEN BAY

STH 172-CTH JJ

IH 43 BROWN

STATE PROJECT NUMBER
1227-13-60



TOTAL NET LENGTH OF CENTERLINE = 0.163MI

SCALE L

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

APPROVED FOR THE DEPARTMENT

Surveyor

Designer

Protect Manager

Regional Examiner

TE: 3/17/2014 Tom Builho g

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

__

PROJECT

STATE PROJECT

1227-13-60

BRYAN SWANSON

TOM BUCHHOLZ

<u>UTILITIES</u>

BILL BALKE

KIM HACKELBERG ATC MANAGEMENT, INC. - ELECTRICITY 801 O'KEFF RD P.O. BOX 6113 DE PERE, 38 1 54115-6113 (920) 338-6556 KHACKELBERG@ATCLLC.COM

VINCE ALBIN
TIME WARNER CABLE, A DELAWARE LIMITED PARTNERSHIP - COMMUNICATION LINE
3520 DESTINATION DR
APPLETON, WI 54915
(920) 831-9249
VINCE.ALBIN@TWCABLE.COM

2828 ALLOUEZ AVE GREEN BAY, WI 54311-6644 (920) 468-5225 BILLB@VILLAGEOFBELLEVUE.ORG BILL BALKE VILLAGE OF BELLEVUE - WATER 2828 ALLOUEZ AVE GREEN BAY, WI 54311-6644 (920) 468-5225

BILLBeVILLAGEOFBELLEVUE.ORG

VILLAGE OF BELLEVUE - SEWER

JEFF MADSON WISCONSIN DEPARTMENT OF TRANSPORTATION - COMMUNICATION LINE STE. 300 433 W. ST. PAUL AVE. MILWAUKEE, WI 53203-3007 (414) 225-3723 JEFFREY.MADSON@DOT.WI.GOV

KAREN WELLS AT&T WISCONSIN - COMMUNICATION LINE 205 S JEFFERSON ST GREEN BAY, WI 54301 (920) 433-4226 KW9272@ATT.COM

LORI BUTRY WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRICITY 700 N ADAMS ST P.O. BOX 19001 GREEN BAY, WI 54307-9001 (920) 433-1703 LABUTRY@INTEGRYSGROUP.COM

LORI BUTRY WISCONSIN PUBLIC SERVICE CORPORATION - GAS/PETROLEUM 700 N ADAMS ST P.O. BOX 19001 GREEN BAY, WI 54307-9001 (920) 433-1703 LABUTRY@INTEGRYSGROUP.COM

DNR AREA LIAISON

JIM DOPERALSKI DEPARTMENT OF NATURAL RESOURCES 2984 SHAWANO AVE GREEN BAY, WI 54303 PHONE: 920-662-5119 EMAIL: JAMES.DOPERALSKI@WISCONSIN.GOV



EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE 1-800-450-7240 GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

PAT FORD PAO. BOX 23600 GREEN BAY, WI 54301-3600 PHONE: 920-448-4493(0), 920-448-4487(F) EMAIL: FORD_PJ@CO.BROWN.WI.US

GENERAL NOTES

THE LOCATIONS OF EXISTING MANHOLES AS SHOWN ON THE PLANS ARE APPROXIMATE.

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

EXISTING PERMANENT SIGNS ARE TO REMAIN IN PLACE UNLESS SPECIFICALLY CALLED FOR REMOVAL ON MISCELLANEOUS QUANTITY TABLE.

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER. ALL DISTURBED AREAS, NOT OTHERWISE SURFACED, ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND COVERED WITH MULCH OR EROSION MAT, AS SHOWN ON THE PLANS.

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

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER.

PROJECT NO:1227-13-60

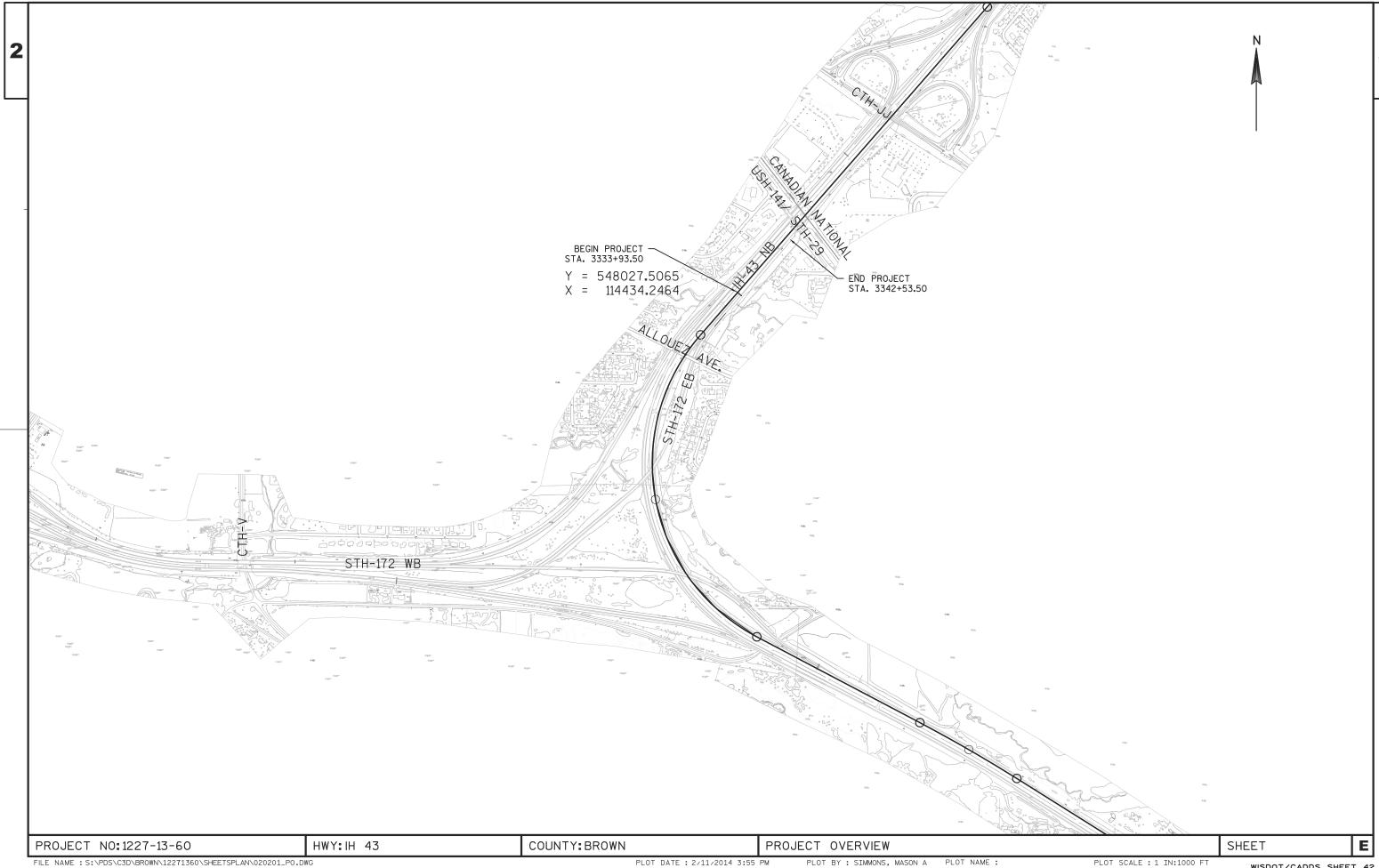
HWY:IH 43

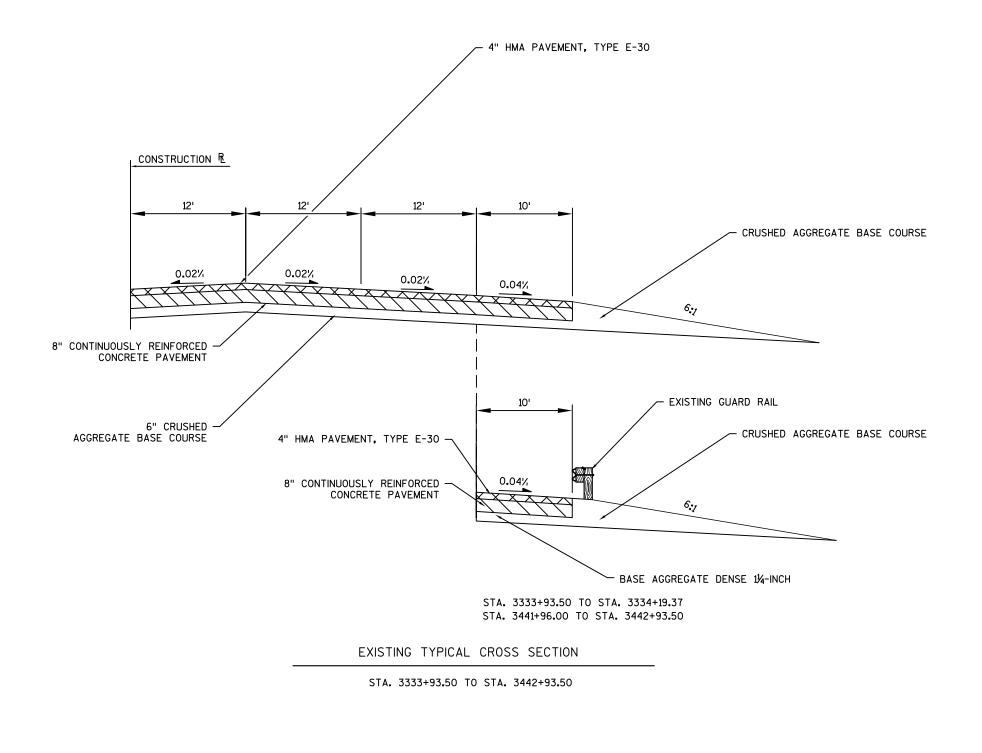
COUNTY: BROWN

UTILITIES & GENERAL NOTES

SHEET

PLOT SCALE : 1 IN:10 FT





PROJECT NO:1227-08-73

HWY: IH 43

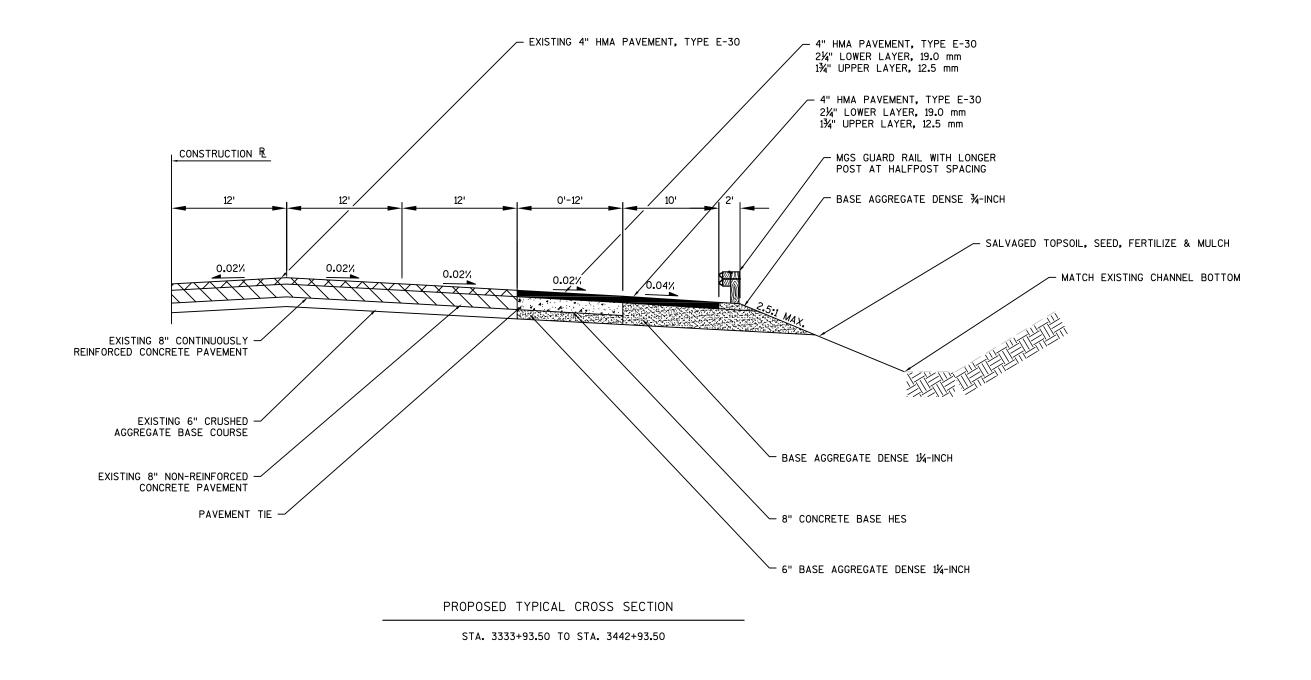
COUNTY: BROWN

TYPICAL SECTIONS

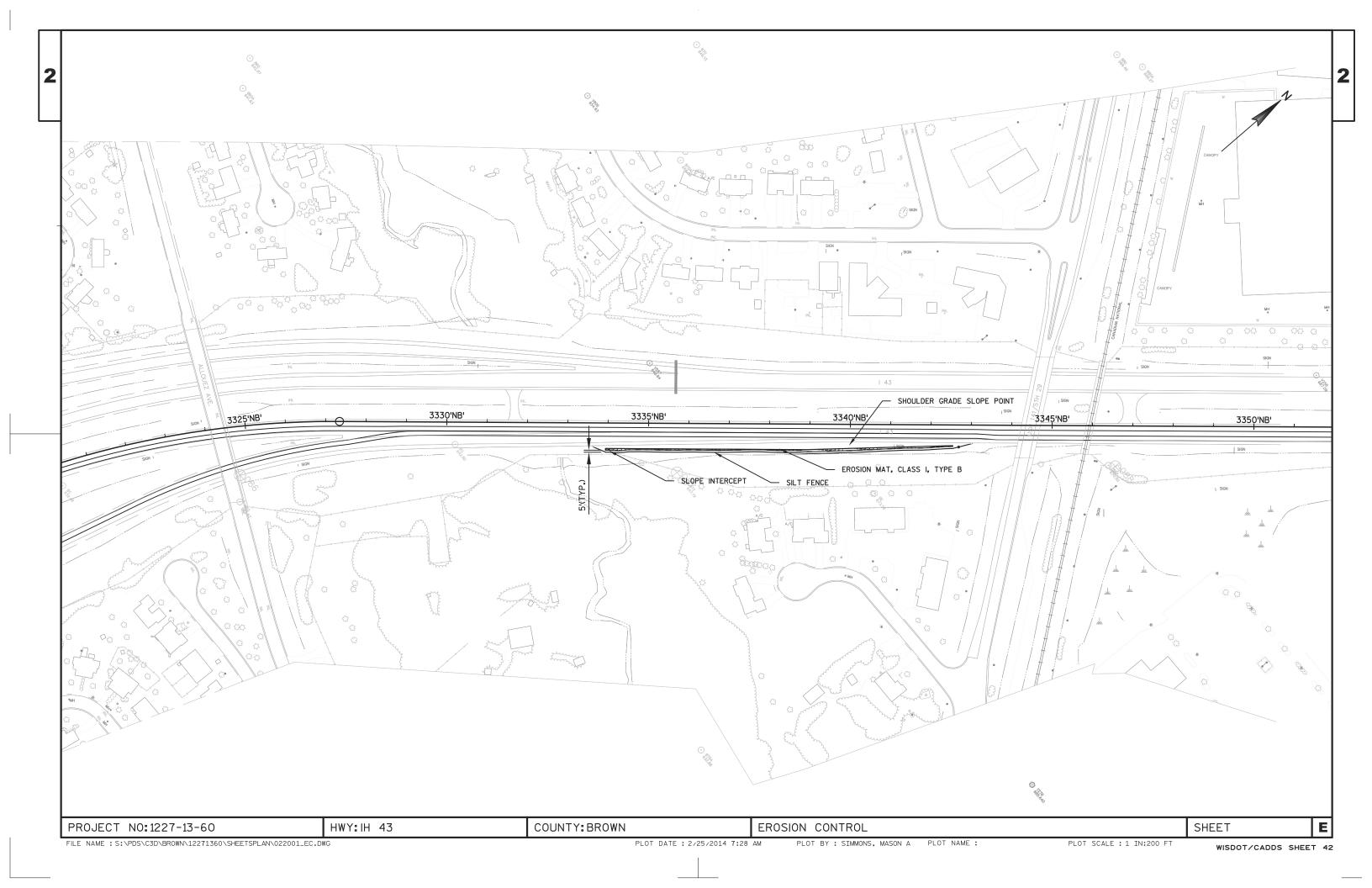
PLOT BY : SIMMONS, MASON A PLOT NAME :

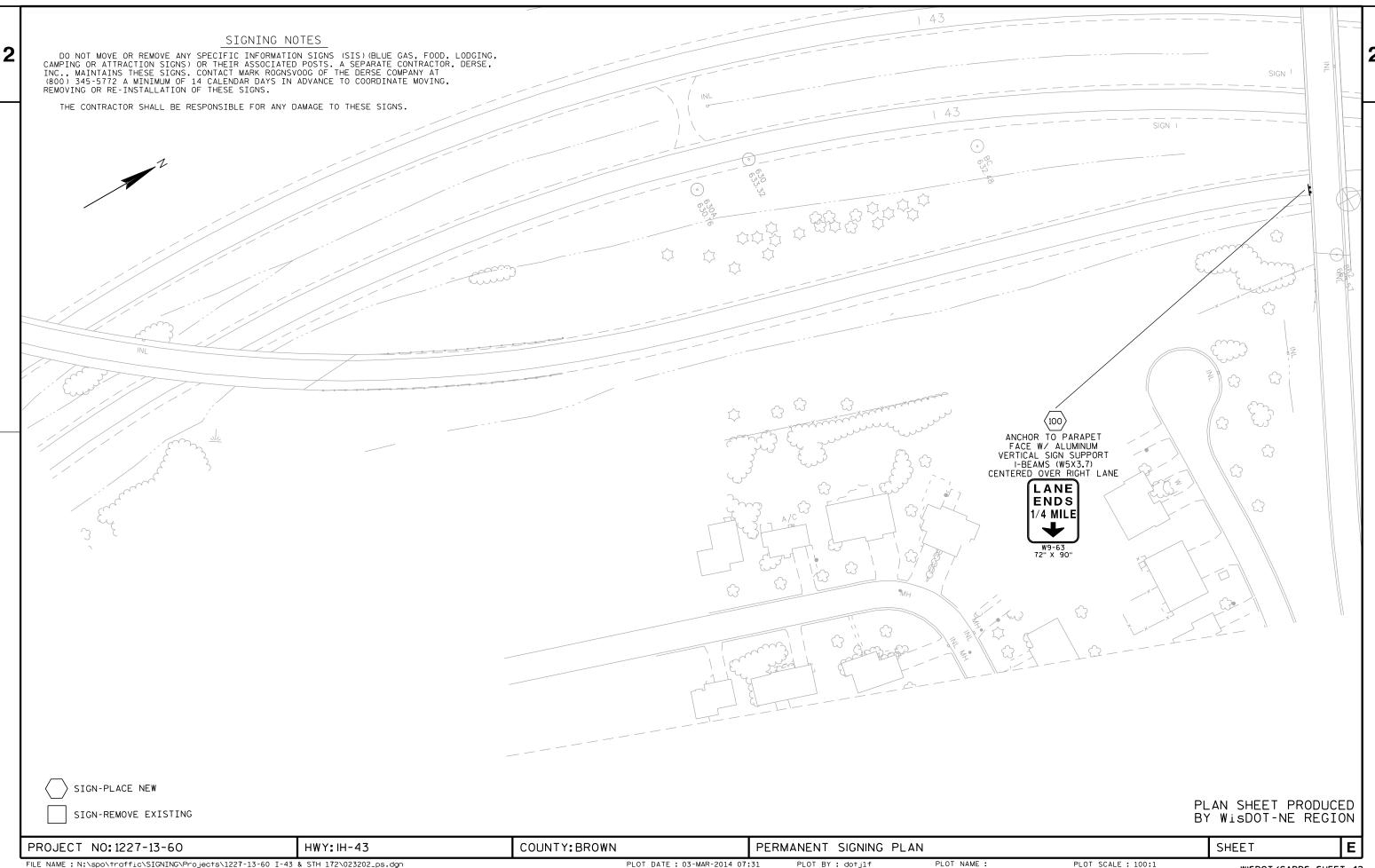
WISDOT/CADDS SHEET 42

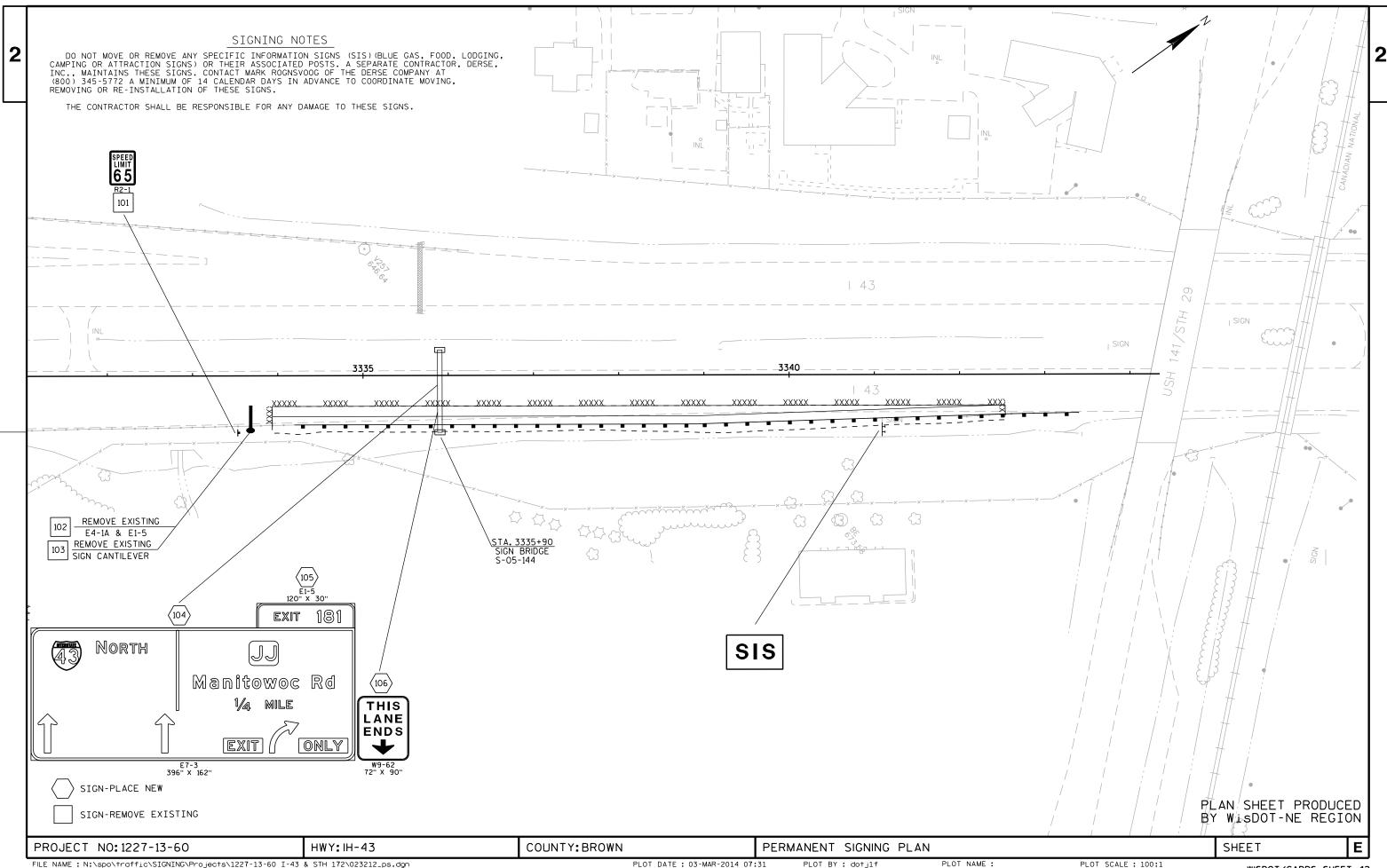
SHEET

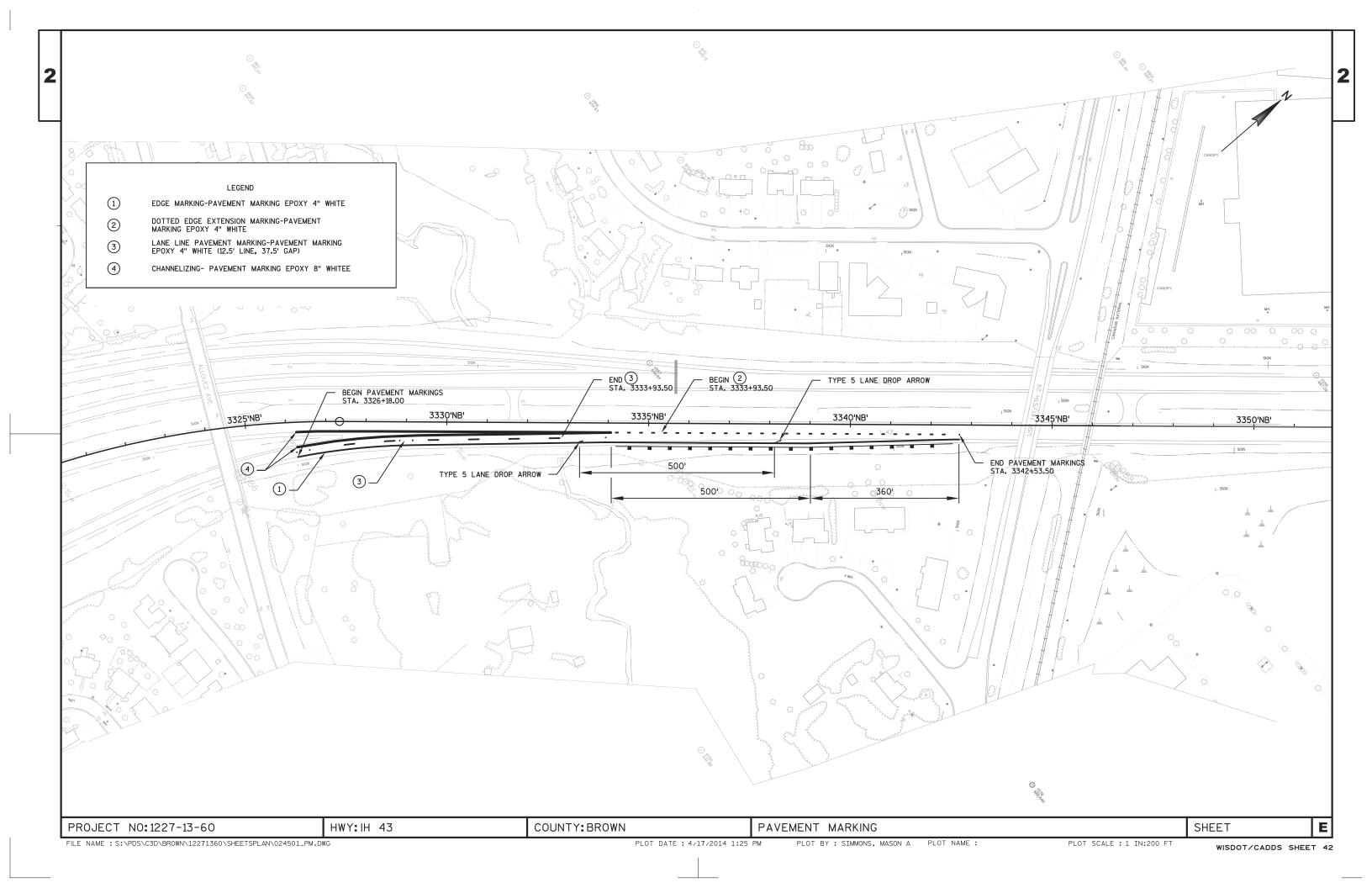


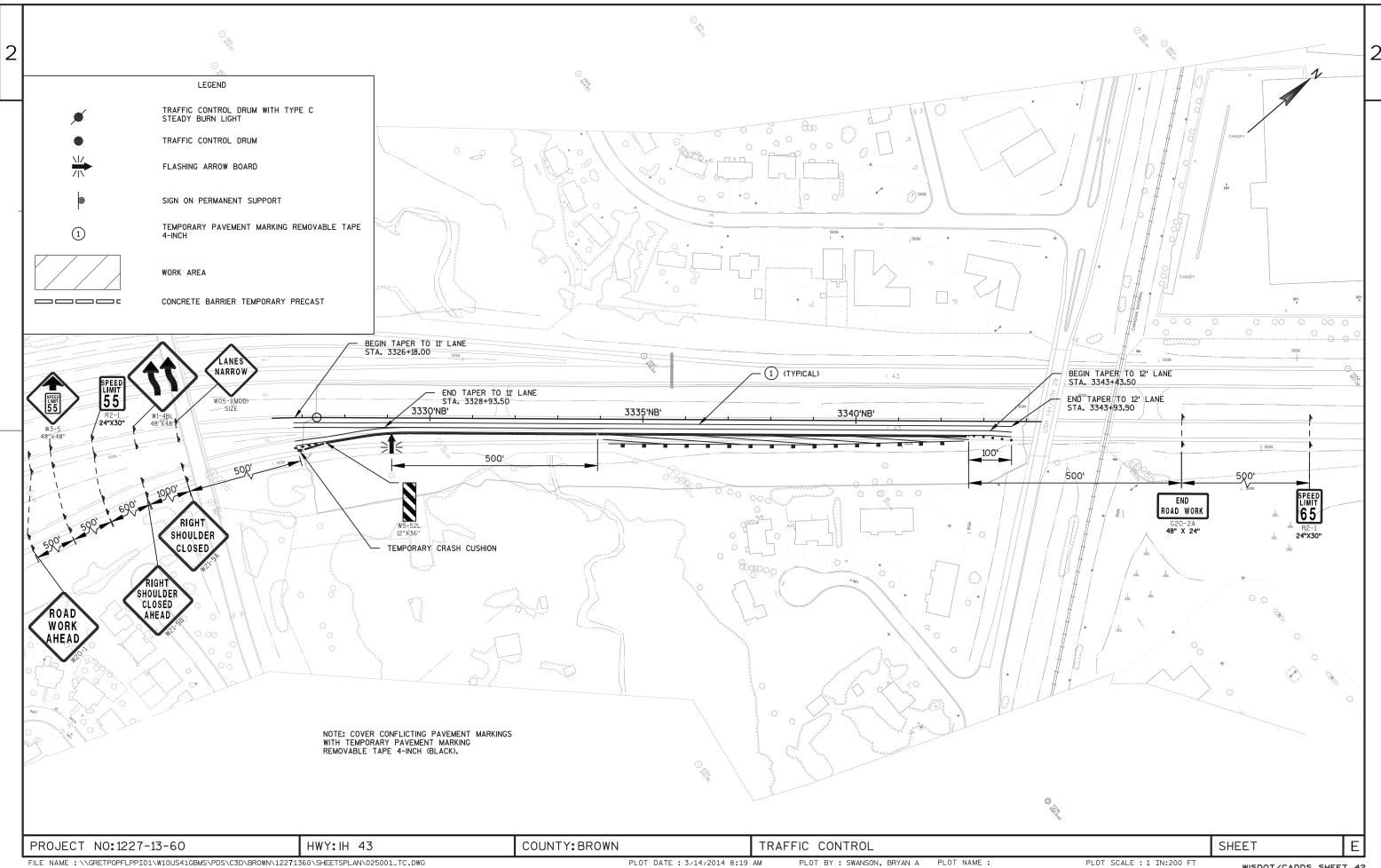
PROJECT NO:1227-13-60 HWY:H 43 COUNTY:BROWN TYPICAL SECTIONS SHEET **E**



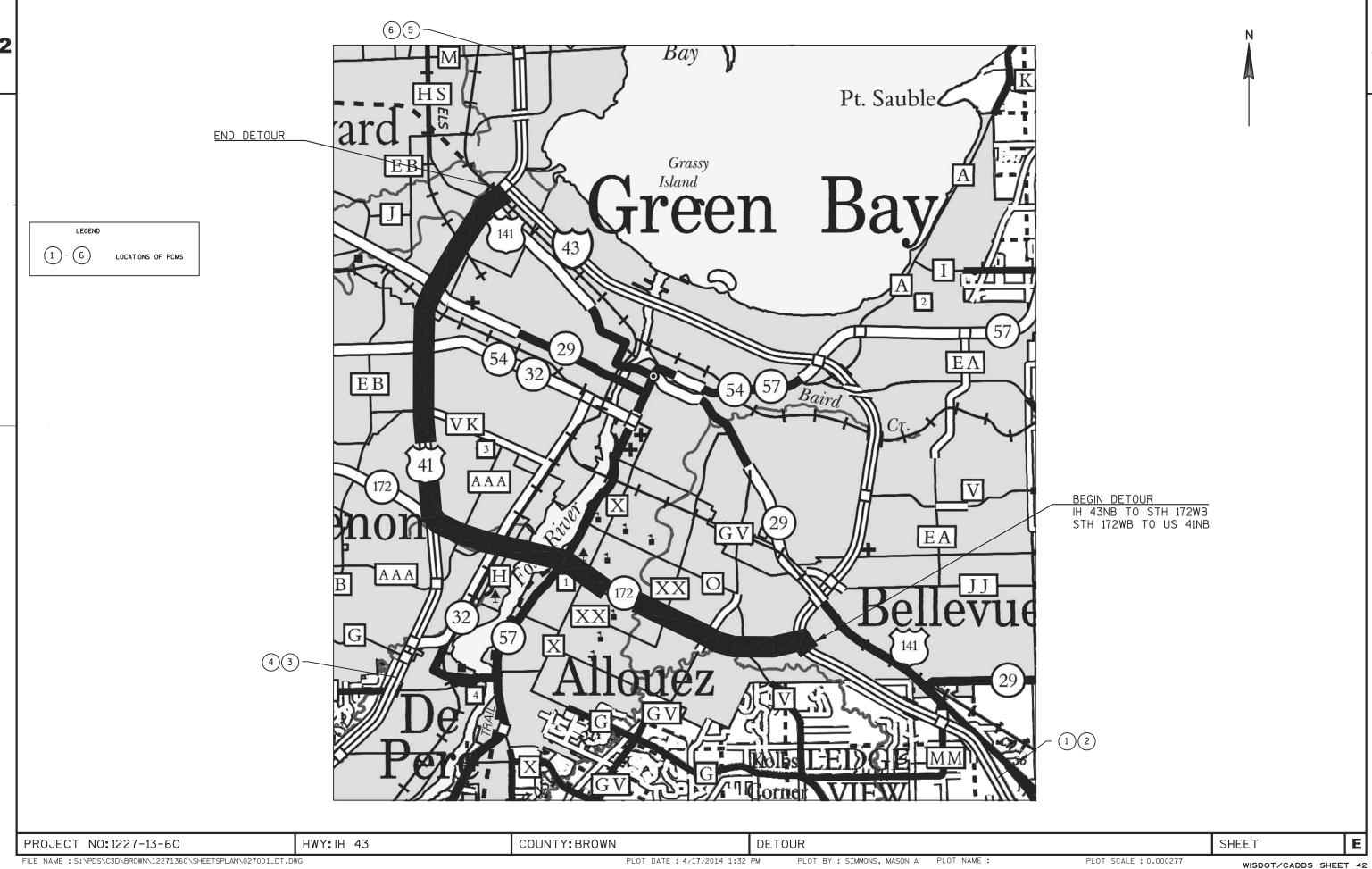








WISDOT/CADDS SHEET 42



| DATE 23 | APR14 | E S T | IMATE | OF QUAN | TITIES | |
|--------------|---------------------------|---|------------|------------------------|------------------------|--|
| LINE | | | | | 1227-13-60 | |
| NUMBER | | I TEM DESCRIPTION | UNIT | TOTAL | QUANTI TY | |
| 0010 | 203. 0200 | REMOVING OLD STRUCTURE (STATION) 02. | LS | 1. 000 | 1. 000 | |
| 0020 | 204 0100 | 3334+12 REMOVI NG PAVEMENT | cv | 040,000 | 040 000 | |
| 0020 0030 | 204. 0100 204. 0165 | REMOVING GUARDRAIL | SY LF | 960. 000 210. 000 | 960. 000 210. 000 | |
| 0030 | 205. 0100 | EXCAVATION COMMON | CY | 685. 000 | 685. 000 | |
| 0050 | 208. 0100 | BORROW | CY | 79. 000 | 79. 000 | |
| 0000 | 200. 0100 | Bonnon | 0.1 | 77.000 | 77.000 | |
| 0060 | 211. 0300 | PREPARE FOUNDATION FOR CONCRETE BASE | LS | 1. 000 | 1. 000 | |
| | | (PROJECT) 01. 1227-13-60 | | | | |
| 0070 | 213. 0100 | FINISHING ROADWAY (PROJECT) 01. | EACH | 1. 000 | 1. 000 | |
| | | 1227-13-60 | | | | |
| 0800 | 305. 0115 | BASE AGGREGATE DENSE 3/4-INCH | CY | 24. 000 | 24. 000 | |
| 0090 | 305. 0125 | BASE AGGREGATE DENSE 1 1/4-INCH | CY | 660. 000 | 660. 000 | |
| 0100 | 305. 0500 | SHAPI NG SHOULDERS | STA | 10. 000 | 10. 000 | |
| 0110 | 220 0245 | CONCRETE DACE HES O LNCH | CV | 010, 000 | 010 000 | |
| 0110 | 320. 0345 | CONCRETE BASE HES 8-INCH | SY DOL | 910.000 | 910.000 | |
| 0120 0130 | 440. 4410. S 455. 0105 | INCENTIVE IRI RIDE ASPHALTIC MATERIAL PG58-28 | TON | 1, 000. 000 25. 000 | 1, 000. 000 25. 000 | |
| 0130 | 455. 0605 | TACK COAT | GAL | 105. 000 | 105. 000 | |
| 0140 | 460. 1130 | HMA PAVEMENT TYPE E-30 | TON | 410. 000 | 410. 000 | |
| 0130 | 700. I I 30 | INWA I AV LIVILIVI I II L L-JU | ION | 710.000 | 710.000 | |
| 0160 | 460. 2000 | INCENTIVE DENSITY HMA PAVEMENT | DOL | 246. 000 | 246. 000 | |
| 0170 | 465. 0400 | ASPHALTIC SHOULDER RUMBLE STRIP | LF | 860. 000 | 860. 000 | |
| 0180 | 603.8000 | CONCRETE BARRIER TEMPORARY PRECAST | LF | 1, 555. 000 | 1, 555. 000 | |
| | | DELI VERED | | | | |
| 0190 | 603.8125 | CONCRETE BARRIER TEMPORARY PRECAST | LF | 1, 555. 000 | 1, 555. 000 | |
| | | INSTALLED | | | | |
| 0200 | 614. 0010 | BARRIER SYSTEM GRADING SHAPING FINISHING | EACH | 2. 000 | 2. 000 | |
| | /// 0000 | OTES, TUDIE DEAM BUILDIOGE TERMINAL | | | | |
| 0210 | 614. 0220 | STEEL THRIE BEAM BULLNOSE TERMINAL | EACH | 2.000 | 2. 000 | |
| 0220 | 614. 0230 | STEEL THRIE BEAM | LF | 75. 000 | 75. 000 | |
| 0230 | 614. 0905 614. 2300 | CRASH CUSHIONS TEMPORARY MGS GUARDRAIL 3 | EACH LF | 1. 000 950. 000 | 1.000 | |
| 0240 0250 | 614. 2620 | MGS GUARDRAIL TERMINAL TYPE 2 | EACH | 1. 000 | 950. 000 1. 000 | |
| 0230 | 014. 2020 | MOS GOARDRAIL TERMINAL TITE 2 | LACII | 1.000 | 1.000 | |
| 0260 | 618. 0100 | MAINTENANCE AND REPAIR OF HAUL ROADS | EACH | 1. 000 | 1. 000 | |
| | | (PROJECT) 01. 1227-13-60 | | | | |
| 0270 | 619. 1000 | MOBI LI ZATI ON | EACH | 1.000 | 1.000 | |
| 0280 | 624. 0100 | WATER | MGAL | 10.000 | 10.000 | |
| 0290 | 625.0500 | SALVAGED TOPSOIL | SY | 311. 000 | 311. 000 | |
| 0300 | 627. 0200 | MULCHI NG | SY | 311. 000 | 311.000 | |
| | | | | | | |
| 0310 | 628. 1504 | SILT FENCE | LF . – | 1, 000. 000 | 1, 000. 000 | |
| 0320 | 628. 1520 | SILT FENCE MAINTENANCE | LF | 1, 000. 000 | 1, 000. 000 | |
| 0330 | 628. 1905 | MOBILIZATIONS EROSION CONTROL | EACH | 2. 000 | 2. 000 | |
| 0340 | 628. 1910 | MOBILIZATIONS EMERGENCY EROSION CONTROL | EACH | 4.000 | 4. 000 | |
| 0350 | 628. 2004 | EROSION MAT CLASS I TYPE B | SY | 315. 000 | 315. 000 | |
| 0260 | 620 0210 | EEDTILI7ED TVDE D | CWT | 1 000 | 1 000 | |
| 0360 0370 | 629. 0210 630. 0120 | FERTILIZER TYPE B SEEDING MIXTURE NO. 20 | CWT LB | 1. 000 8. 000 | 1. 000 8. 000 | |
| 0370 | 630. 0120 | MARKERS CULVERT END | EACH | 1. 000 | 8. 000 1. 000 | |
| 0390 | 636. 0100 | SIGN SUPPORTS CONCRETE MASONRY | CY | 87. 000 | 87. 000 | |
| 0400 | 636. 1000 | SIGN SUPPORTS CONCRETE MASONRY SIGN SUPPORTS STEEL REINFORCEMENT HS | LB | 6, 340. 000 | 6, 340. 000 | |
| 0-100 | 555. 1000 | O. S., SOLI ONTO STELL INLINI ONCEMENT IIS | | 5, 540.000 | 5, 540. 000 | |
| 0410 | 636. 1500 | SIGN SUPPORTS STEEL COATED | LB | 2, 180. 000 | 2, 180. 000 | |
| 50 | 200. 1000 | REINFORCEMENT HS | | _, .55. 555 | 2, .55. 555 | |
| 0420 | 637. 1220 | SIGNS TYPE I REFLECTIVE SH | SF | 470. 500 | 470. 500 | |
| 0430 | 637. 2230 | SIGNS TYPE II REFLECTIVE F | SF | 90. 000 | 90. 000 | |
| 0440 | 638. 2601 | REMOVING SIGNS TYPE I | EACH | 2. 000 | 2. 000 | |
| 0450 | 638. 2602 | REMOVING SIGNS TYPE II | EACH | 1. 000 | 1. 000 | |
| | | | | | | |
| 0460 | 638. 3000 | REMOVING SMALL SIGN SUPPORTS | EACH | 1.000 | 1. 000 | |
| 0470 | 641. 6600 | SIGN BRIDGE (STRUCTURE) 04. S-5-144 | LS | 1. 000 | 1. 000 | |
| 0480 | 642. 5201 | FIELD OFFICE TYPE C | EACH | 1. 000 | 1. 000 | |
| | | | | | | |

| DATE 23 | SAPR14 | E S 1 | IMATE | OF QUAN | | |
|-----------------|-----------|--|-------|-------------|-------------------------|--|
| LI NE NUMBER | ITEM | ITEM DESCRIPTION | UNI T | TOTAL | 1227-13-60 QUANTI TY | |
| 0490 | 643. 0100 | TRAFFIC CONTROL (PROJECT) 01. 1227-13-60 | EACH | 1.000 | 1.000 | |
| 0500 | 643. 0300 | TRAFFIC CONTROL DRUMS | DAY | 765. 000 | 765. 000 | |
| 0510 | 643. 0420 | TRAFFIC CONTROL BARRICADES TYPE III | DAY | 16. 000 | 16. 000 | |
| 0520 | 643. 0715 | TRAFFIC CONTROL WARNING LIGHTS TYPE C | DAY | 340.000 | 340.000 | |
| 0530 | 643. 0800 | TRAFFIC CONTROL ARROW BOARDS | DAY | 57.000 | 57. 000 | |
| 0540 | 643. 0900 | TRAFFIC CONTROL SIGNS | DAY | 685. 000 | 685. 000 | |
| 0550 | 643. 1050 | TRAFFIC CONTROL SIGNS PCMS | DAY | 33. 000 | 33. 000 | |
| 0560 | 643. 2000 | TRAFFIC CONTROL DETOUR (PROJECT) 01. | EACH | 1. 000 | 1. 000 | |
| | | 1227-13-60 | | | | |
| 0570 | 646. 0106 | PAVEMENT MARKING EPOXY 4-INCH | LF | 2, 400. 000 | 2, 400. 000 | |
| 0580 | 646. 0126 | PAVEMENT MARKING EPOXY 8-INCH | LF | 1, 540. 000 | 1, 540. 000 | |
| 0590 | 646. 0600 | REMOVING PAVEMENT MARKINGS | LF | 1, 000. 000 | 1, 000. 000 | |
| 0600 | 647. 0196 | PAVEMENT MARKING ARROWS EPOXY TYPE 5 | EACH | 2. 000 | 2. 000 | |
| 0610 | 647. 0955 | REMOVING PAVEMENT MARKINGS ARROWS | EACH | 2.000 | 2. 000 | |
| 0620 | 649. 0400 | TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH | LF | 8, 340. 000 | 8, 340. 000 | |
| 0630 | 650. 4500 | CONSTRUCTION STAKING SUBGRADE | LF | 860.000 | 860.000 | |
| 0640 | 650. 7000 | CONSTRUCTION STAKING CONCRETE PAVEMENT | LF | 860.000 | 860.000 | |
| 0650 | 650. 9910 | CONSTRUCTION STAKING SUPPLEMENTAL | LS | 1.000 | 1. 000 | |
| | | CONTROL (PROJECT) 01. 1227-13-60 | | | | |
| 0660 | 650. 9920 | CONSTRUCTION STAKING SLOPE STAKES | LF | 860. 000 | 860. 000 | |
| 0670 | 690. 0250 | SAWING CONCRETE | LF | 1, 755. 000 | 1, 755. 000 | |
| 0680 | 715. 0415 | INCENTIVE STRENGTH CONCRETE PAVEMENT | DOL | 272.000 | 272. 000 | |
| | | | | | | |

| REMOVING PAVEMENT QUANTITIES | CULVERT END MARKER |
|--|--|
| 204.0100 | |
| REMOVING PAVEMENT | 633.5200 |
| STA. TO STA. DIRECTION LOCATION SY | MARKERS CULVERT END |
| CATEGORY 0010 | STA. DIRECTION LOCATION EACH CATEGORY 0010 |
| 3333+93.50 - 3336+43.50 RT IH 43 280 | 3339+20 RT IH 43 1 |
| [*] 333643.50 - 3338+93.50 RT IH 43 280 3338+93.50 - 3342+53.50 RT IH 43 400 | 3339+20 K1 III43 I |
| 3338+93.50 - 3342+53.50 RT IH 43 400 | TOTAL 1 |
| TOTAL 960 | |
| FINISHING ROADWAY (PROJECT) 213.0100 FINISHING ROADWAY PROJECT STA. TO STA. LOCATION EACH CATEGORY 0010 PROJECT IH 43 1 TOTAL 1 | CONCRETE QUANTITIES 320.0345 690.0250 CONCRETE BASE HES 8-INCH SAWING CONCRETE STA. TO STA. DIRECTION SY LF CATEGORY 0010 3333+93.50 - 3336+43.50 RT 335 525 3336+43.50 - 3338+93.50 RT 335 500 3338+93.50 - 3342+53.50 RT 240 730 |
| WATER QUANTITIES 624.0100 WATER STA. TO STA. LOCATION MGAL | EARTHWORK QUANTITIES 205.0100 208.0100 EXCAVATION COMMON BORROW STA. TO STA. DIRECTION LOCATION CY CY CATEGORY 0010 |
| CATEGORY 0010 | 3333+93.50 - 3336+43.50 RT IH 43 269 10 |
| BASE AGGREGATE IH 43 10 | 3336+43.50 - 3338+93.50 RT IH 43 226 19 |
| | 3338+93.50 - 3342+53.50 RT IH 43 190 50 |
| TOTAL 10 | TOTAL 685 79 |
| PROJECT NO: 1227-13-60 | MISCELLANEOUS QUANTITIES SHEET: |
| | IVIIOCELLANEOUS QUANTITIES SHEET. |

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : B.A.S. PLOT NAME : PLOT SCALE : 1:1

AGGREGATE QUANTITIES

305.0500 305.0115 305.0125 BASE AGGREGATE BASE AGGREGATE SHAPING SHOULDERS DENSE 3/4-INCH DENSE 1 1/4-INCH DIRECTION LOCATION LENGTH (FT) STA CY STA. TO STA. CY CATEGORY 0010 3333+93.50 - 3336+43.50 IH 43 250 3 7 190 RT 333643.5 - 3338+93.50 RT IH 43 250 3 7 190 3338+94 - 3342+54 RT IH 43 360 4 10 280

10

TOTAL

ASPHALT QUANTITIES

455.0105 455.0605 460.1130 465.0400 ASPHALTIC MATERIAL HMA PAVEMENT ASPHALTIC SHOULDER PG58-28 TACK COAT TYPE E-30 **RUMBLE STRIPS** DIRECTION TON GAL TON LF STA. TO STA. CATEGORY 0010 3333+93.50 - 3336+43.50 RT 8 30 134 250 3336+43.50 - 3338+93.50 RT 31 135 250 8 RT 9 3338+93.50 - 3342+53.50 44 141 360 Total 25 105 410 860

PROJECT NO: 1227-13-60 HWY: IH 43 COUNTY: BROWN MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME: N:\PDS\...\030200_mq.pptx

PLOT DATE: March 18, 2014

PLOT BY: B.A.S.

24

660

PLOT NAME :

PLOT SCALE : 1:1

| 3 | |
|---|--|
| | |

| | | | | | GUARDRAIL QUANTITIES | | | |
|-----------|------|------------|-----------|---------------------------|-----------------------------|------------|-------------|-----------------|
| | | | 204.0165 | 614.0010 | 614.0220 | 614.0230 | 614.2300 | 614.2620 |
| | | | REMOVING | BARRIER SYSTEM | STEEL THRIE BEAM | STEEL | MGS | MGS GUARDRAIL |
| | | | GUARDRAIL | GRADING SHAPING FINISHING | BULLNOSE TERMINAL | THRIE BEAM | GUARDRAIL 3 | TERMINAL TYPE 2 |
| STA. | TO | STA. | LF | Each | Each | LF | LF | Each |
| CATEGORY | 0010 |) | | | | | | |
| 3333+93.5 | 0 - | 3336+93.50 | | 1 | 2 | 75 | 300 | |
| 3336+93.5 | 0 - | 3339+43.50 | | | | | 250 | |
| 3339+43.5 | 0 - | 3343+40.00 | 210 | 1 | | | 400 | 1 |
| | | | | | | | | |
| | | Total | 210 | 2 | 2 | 75 | 950 | 1 |

TEMPORARY TRAFFIC BARRIER QUANTITIES

| | | | TOTAL | 1,555 | 1,555 | 1 |
|------------|-----|------------|----------|-------------------|-------------------|---------------|
| | | | | | | |
| 3338+93.50 | - | 3342+53.50 | IH 43 | 360 | 360 | |
| 3336+43.50 | - | 3338+93.50 | IH 43 | 250 | 250 | |
| 3333+93.50 | - | 3336+43.50 | IH 43 | 250 | 250 | |
| 3326+98.50 | - | 3333+93.50 | IH 43 | 695 | 695 | 1 |
| CATEGORY 0 | 010 | | | | | |
| STA. | TO | STA. | LOCATION | LF | LF | EACH |
| | | | | DELIVERED | INSTALLED | TEMPORARY |
| | | | | TEMPORARY PRECAST | TEMPORARY PRECAST | CRASH CUSHION |
| | | | | CONCRETE BARRIER | CONCRETE BARRIER | |
| | | | | 603.8000 | 603.8215 | 614.0905 |
| | | | | | | |

PROJECT NO: 1227-13-60 HWY: IH 43 COUNTY: BROWN MISCELLANEOUS QUANTITIES SHEET: **E**

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|3

EROSION CONTROL QUANTITIES

| | | | | 628.1504 | 628.1520 SILT FENCE | 628.1905 MOBILIZATIONS | 628.1910 MOBILIZATIONS EMERGENCY | 628.2004 EROSION MAT |
|------------|------|------------|----------|------------|------------------------|---------------------------|-------------------------------------|-------------------------|
| | | | | SILT FENCE | MAINTENANCE | EROSION CONTROL | EROSION CONTROL | CLASS I TYPE B |
| STA. | TO | STA. | LOCATION | LF | LF | EACH | EACH | SY |
| CATEGORY | 0010 |) | | | | | | |
| 3333+93.50 |) - | 3338+93.50 | IH 43 | 560 | 560 | | | 175 |
| 3338+93.50 |) - | 3342+53.50 | IH 43 | 440 | 440 | 2 | 4 | 140 |
| | | | | | | | | |
| · | | | TOTAL | 1,000 | 1,000 | 2 | 4 | 315 |

LANDSCAPING QUANTITIES

| • | | | TOTAL | 311 | 311 | 1.00 | 8 | |
|------------|-----|------------|----------|----------|----------|------------|----------|---------|
| 3333+93.50 | 0 - | 3342+53.50 | IH 43 | 311 | 311 | 1.00 | 8 | |
| CATEGORY | | | 111.42 | 244 | 244 | 1.00 | 0 | |
| STA. | TO | STA. | LOCATION | SY | SY | CWT | LB | REMARKS |
| | | | | TOPSOIL | MULCHING | TYPE B | NO. 20 | |
| | | | | SALVAGED | | FERTILIZER | MIXTURE | |
| | | | | | | | SEEDING | |
| | | | | 625.0500 | 627.0200 | 629.0210 | 630.0120 | |

PROJECT NO: 1227-13-60 HWY: IH 43 COUNTY: BROWN MISCELLANEOUS QUANTITIES SHEET: **E**

PLOT SCALE: 1:1

TRAFFIC CONTROL QUANTITIES

| | 643. | 0300 | 643.0 TRA | | | 0715 CONTROL | 643.0 | 0800 | 643.0 | 0900 | 643. | 1050 | |
|-------------------------|--------|---------|--------------|-----------|--------|-----------------|-----------|---------|-----------|---------|-----------|---------|-----------------|
| | TRA | FFIC | CONTROL B | ARRICADES | WARNIN | G LIGHTS | TRAFFIC (| CONTROL | TRAFFIC (| CONTROL | TRAFFIC (| CONTROL | |
| | CONTRO | L DRUMS | TYP | E III | TYF | PE C | ARROW | BOARDS | SIG | 6N | SIGNS | PCMS | |
| LOCATION | EACH* | DAYS | EACH* | DAYS | EACH* | DAYS | EACH* | DAYS | EACH* | DAYS | EACH* | DAYS | REMARKS |
| CATEGORY 0010 | | | | | | | | | | | | | |
| DAYS: 45 | 5 | | | | | | | | | | | | |
| ADVANCE WARNING | | | | | | | | | | | | | |
| PROJECT LIMITS, NB | 5 | | | | | | | | 20 | 400 | 3 | 21 | ADVANCE WARNING |
| NIGHT CLOSURE IH 43 | 90 | 180 | 4 | 8 | 40 | 80 | 3 | 6 | 15 | 30 | | | NIGHT CLOSURE |
| NIGHT CLOSURE STH 172 | 90 | 180 | 4 | 8 | 40 | 80 | 3 | 6 | 15 | 30 | | | NIGHT CLOSURE |
| PROJECT TRAFFIC CONTROL | | | | | | | | | | | | | |
| 3333+93.50 - 3342+53.50 | 9 | 405 | | | 4 | 180 | 1 | 45 | 5 | 225 | | | |
| TOTALS | | 765 | | 16 | | 340 | | 57 | | 685 | | 21 | |

^{* -} FOR INFORMATION ONLY

TRAFFIC CONTROL DETOUR SIGN SUMMARY

| | | APPROX. | SIGNS | |
|--------|--|---------|------------|---------|
| | | SERVICE | PORTABLE | |
| SIGN | | PERIOD | CHANGEABLE | |
| | | 2 | MESSAGE | |
| NO. | LOCATION | DAYS | DAYS | REMARKS |
| 1 | 1/2 MILE SOUTH OF CTH MM, RIGHT SIDE OF ROAD | | 2 | |
| 2 | 1/2 MILE SOUTH OF CTH MM, LEFT SIDE OF ROAD | | 2 | |
| 3 | 1/2 MILE SOUTH OF CTH G (MAIN AVE), RIGHT SIDE OF ROAD | | 2 | |
| 4 | 1/2 MILE SOUTH OF CTH G (MAIN AVE), LEFT SIDE OF ROAD | | 2 | |
| 5 | AT CTH M (LINEVILLE RD), RIGHT SIDE OF ROAD | | 2 | |
| 6 | AT CTH M (LINEVILLE RD), LEFT SIDE OF ROAD | | 2 | |
| TOTALS | | | 12 | |

PROJECT NO: 1227-13-60 HWY: IH 43 COUNTY: BROWN MISCELLANEOUS QUANTITIES SHEET: **E**

PAVEMENT MARKING QUANTITIES

| | | | | 646.0106 | 646.0126 | 646.0600 | 647.0196 | 647.0955 REMOVING | 649.0400 TEMPORARY | 649.0400 TEMPORARY |
|-----------|------|------------|-----------------|------------------|---------------------|-------------------|---------------------|----------------------|-----------------------|-----------------------|
| | | | | PAVEMENT MARKING | PAVEMENT MARKING | REMOVING | PAVEMENT MARKING | PAVEMENT MARKING | PAVEMENT MARKING | PAVEMENT MARKING |
| | | | | EPOXY 4-INCH | EPOXY 8-INCH | PAVEMENT MARKINGS | ARROWS EPOXY TYPE 5 | ARROWS | REMOVABLE TAPE 4-INCH | REMOVABLE TAPE 4-INCH |
| | | | | WHITE | WHITE | | WHITE | | WHITE | BLACK |
| STA. | TO | STA. | LOCATION | LF | LF | LF | EACH | EACH | LF | LF |
| CATEGORY | 0010 | | | | | | | | | |
| 3326+18.0 | 0 - | 3333+93.50 | STH 172 & IH 43 | 1300 | 1540 | 1000 | 1 | 2 | 3100 | 1740 |
| 3333+93.5 | - 00 | 3336+43.50 | IH 43 | 315 | | | | | 750 | 125 |
| 3336+43.5 | 50 - | 3338+93.50 | IH 43 | 315 | | | 1 | | 750 | 125 |
| 3338+93.5 | - 00 | 3342+53.50 | IH 43 | 470 | | | | | 1080 | 180 |
| 3342+53.5 | 50 - | 3343+93.50 | IH 43 | | | | | | 420 | 70 |
| | | | TOTAL | 2,400 | 1,540 | 1,000 | 2 | 2 | 6,100 | 2,240 |

CONSTRUCTION STAKING QUANTITIES

| | | | | 650.4500 CONSTRUCTION | 650.7000 CONSTRUCTION | 650.9920 CONSTRUCTION |
|-------------|----|------------|----------|--------------------------|--------------------------|--------------------------|
| | | | | STAKING | STAKING | STAKING |
| | | | | | | |
| | | | | SUBGRADE | CONCRETE PAVEMENT | SLOPE STAKES |
| STA. | TO | STA. | LOCATION | LF | LF | LF |
| CATEGORY 00 | 10 | | | | | |
| 3333+93.50 | - | 3336+43.50 | IH 43 | 250 | 250 | 250 |
| 33336+43.50 | - | 3338+93.50 | IH 43 | 250 | 250 | 250 |
| 3338+93.50 | - | 3342+53.50 | IH 43 | 360 | 360 | 360 |
| | | | | | | |
| | | | TOTAL | 860 | 860 | 860 |

PROJECT NO: 1227-13-60 HWY: IH 43 COUNTY: BROWN MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : B.A.S. PLOT NAME : PLOT SCALE : 1:1

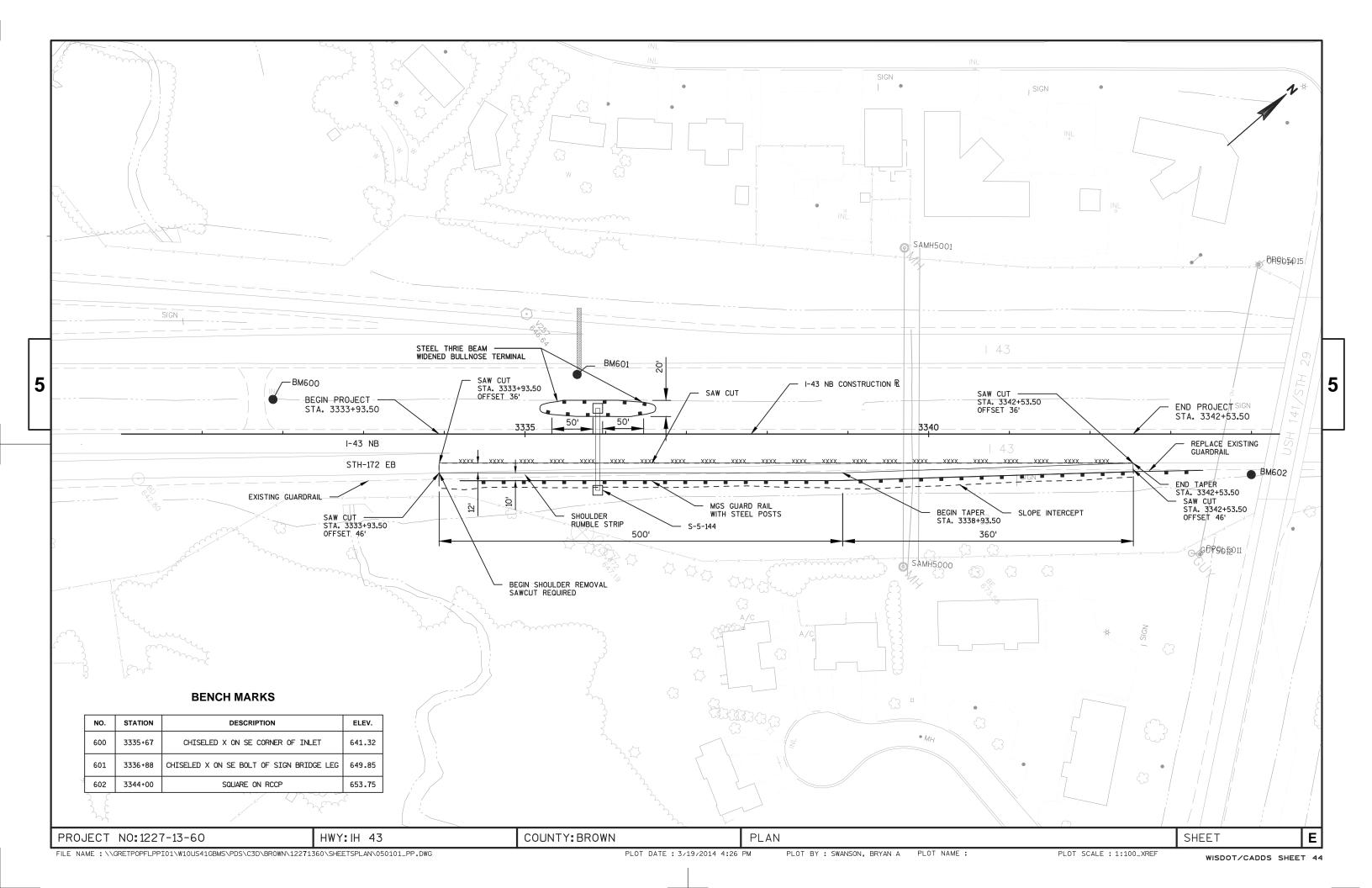
ERECTION & REMOVAL OF TYPE I & II SIGNS AND SUPPORTS

| | | | | 637. 1220 | 637. 2230 | 638. 2602 | 638. 3000 | 638. 2601 | |
|------|--|-------|-------------|----------------|---------------|-----------|------------|-----------|---|
| | | | | SI GNS | SI GNS | REMOVI NG | REMOVI NG | REMOVI NG | |
| | | | | TYPE I | TYPE II | SI GNS | SMALL SIGN | SI GNS | |
| SIGN | | SI GN | | REFLECTI VE SH | REFLECTI VE F | TYPE II | SUPPORTS | TYPE I | |
| NO. | LOCATI ON | CODE | WXH | S. F. | S. F. | EACH | EACH | EACH | REMARKS |
| 100 | STH 172 EB RAMP TO I-43 NB | W9-63 | 72" X 90" | | 45. 00 | | | | 1/4 MILE, MOUNT TO ALUMINUM STEEL I-BEAMS (W5X3.7) ANCHORED TO FACE OF PARAPET WALL OF ALLOUEZ AVE BRIDGE |
| 101 | I-43 NB, S. OF USH 141/STH 29 OVERPASS | R2-1 | | | | 1 | 1 | | |
| 102 | II | E4-1A | | | | | | 2 | ALSO REMOVE E1-5 |
| 103 | п | | | | | | | | |
| 104 | п | E7-3 | 396" X 162" | 445. 50 | | | | | MOUNT TO SIGN BRIDGE S-05-144 OVER LEFT 3 LANES, FOLLOW SIGN PLATE A4-7 FOR INSTALLATION |
| 105 | п | E1-5 | 120" X 30" | 25. 00 | | | | | EXIT 181, MOUNT ABOVE SIGN #107 IN UPPER RIGHT CORNER |
| 106 | п | W9-62 | 72" X 90" | | 45. 00 | | | | MOUNT TO SIGN BRIDGE S-05-144 CENTERED OVER RIGHT LANE DROP, FOLLOW SIGN PLATE A4-7 FOR INSTALLATION |

PROJECT TOTALS 470.50 90.00 1 1 2

PLAN SHEET PRODUCED BY WisDOT - NE REGION

PROJECT NUMBER: 1227-13-60 HWY: IH-43 COUNTY: BROWN MISCELLANEOUS QUANTITIES SHEET **E**



Standard Detail Drawing List

| 08E09-06 | SILT FENCE |
|-------------|--|
| 12A04-03 | STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS |
| 13A05-05A | SHOULDER RUMBLE STRIP, MILLING |
| 13A05-05B | SHOULDER RUMBLE STRIP, MILLING |
| 13C15-05A | CONCRETE BASE |
| 13C15-05B | CONCRETE BASE |
| 14B07-13A | CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6" |
| 14B07-13B | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-13C | CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6" |
| 14B07-13D | CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6" |
| 14B07-13E | CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6" |
| 14B07 - 13E | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-13G | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-13H | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| | CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS |
| 14B08-01A | CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS |
| 14B08-01B | CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS |
| 14B08-01C | |
| 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 |
| 14B26-02A | STEEL THRIE BEAM BULLNOSE TERMINAL |
| 14B26-02B | STEEL THRIE BEAM BULLNOSE TERMINAL |
| 14B26-02C | STEEL THRIE BEAM BULLNOSE TERMINAL |
| 14B26-02D | STEEL THRIE BEAM BULLNOSE TERMINAL |
| 14B26-02E | STEEL THRIE BEAM BULLNOSE TERMINAL |
| 14B42-02A | MIDWEST GUARDRALL SYSTEM (MGS) GUARDRALL |
| 14B42-02B | MIDWEST GUARDRALL SYSTEM (MGS) GUARDRALL |
| 14B42-02C | MIDWEST GUARDRALL SYSTEM (MGS) GUARDRAIL |
| 14B47-01A | MIDWEST GUARDRALL SYSTEM (MGS) TYPE 2 TERMINAL |
| 14B47-01B | MIDWEST GUARDRALL SYSTEM (MGS) TYPE 2 TERMINAL |
| 14B47-01C | MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL |
| 15A03-02A | FLEXIBLE MARKER POST FOR CULVERT END |
| 15A03-02B | FLEXIBLE MARKER POST FOR CULVERT END |
| 15C02-05A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C02-05B | BARRI CADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C02-05C | DETOUR SIGNING FOR MAINLINE CLOSURES |
| 15C07-12C | PAVEMENT MARKING ARROWS |
| 15C08-16A | PAVEMENT MARKING (MAINLINE) |
| 15C10-10 | PAVEMENT MARKINGS FOR DROP LANES FREEWAY/EXPRESSWAY |
| 15C12-04 | TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS) |
| 15C19-02C | MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY |
| 15C31-01A | PAVEMENT MARKING (RAMPS AND GORES) |
| 15C31-01B | LANE DROP PAVEMENT MARKING |
| 15C31-01D | PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP |
| 15D03-02 | TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER |
| 15D04-01 | TRAFFIC CONTROL, RAMP CONSTRUCTION STAGING |
| 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 |
| 15D29-03 | TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD |
| | |

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

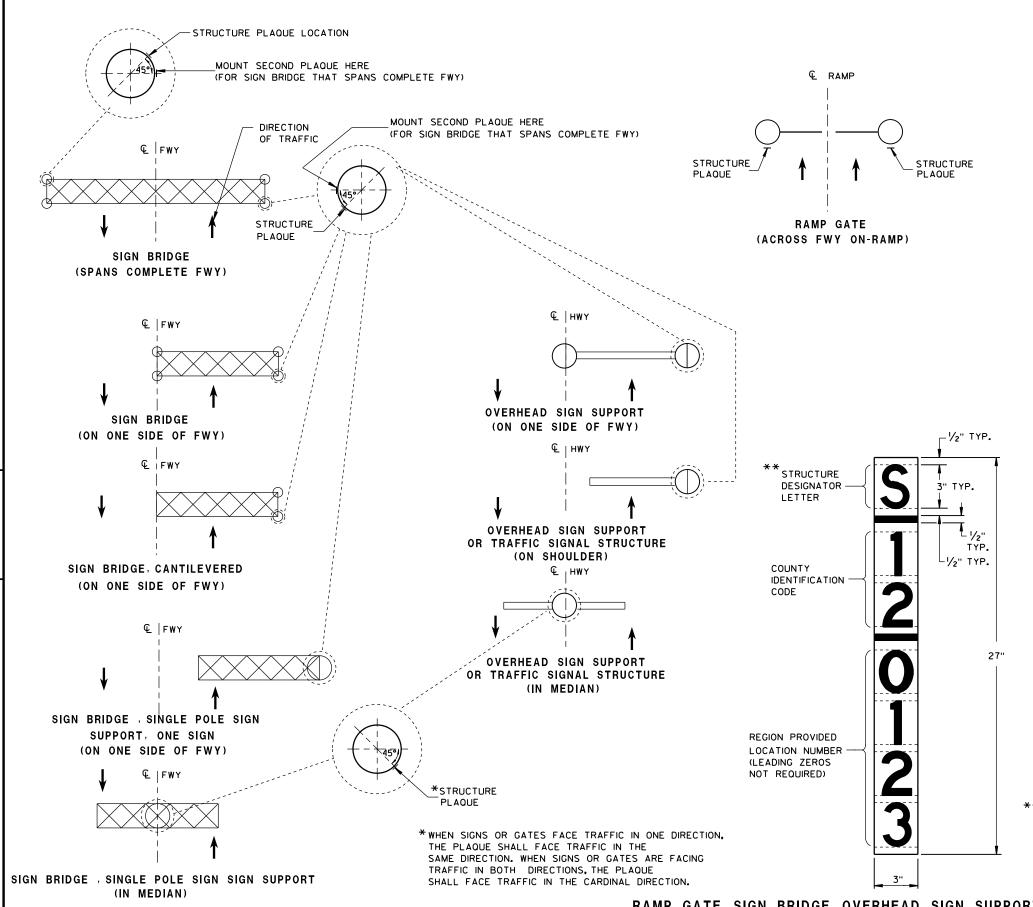
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D.D. 8 E 9



3.D.D. 12 A 4-3



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 \triangleright

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD

SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

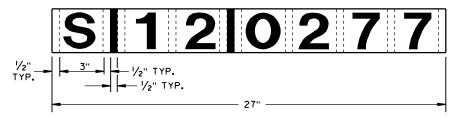
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

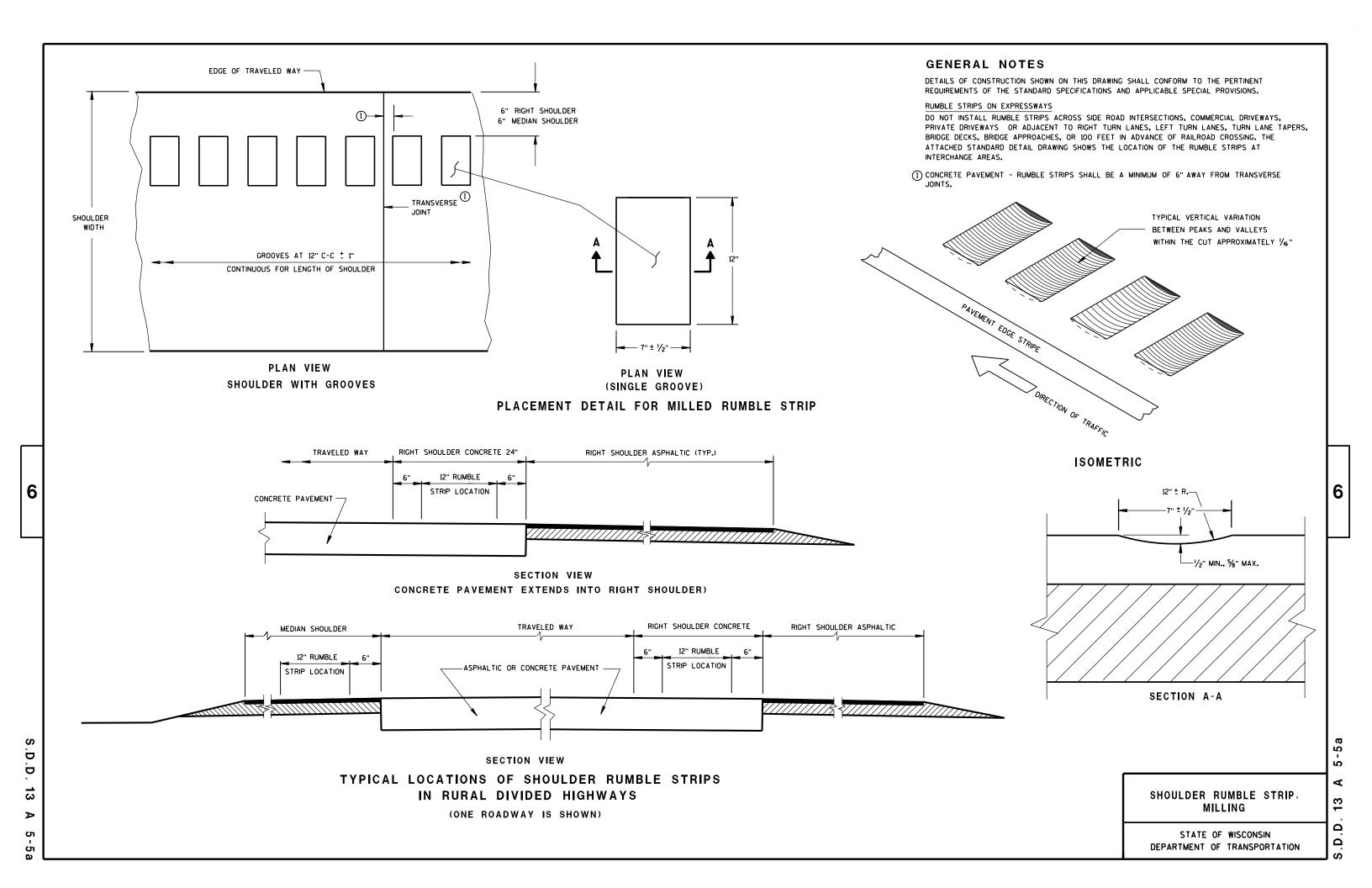
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

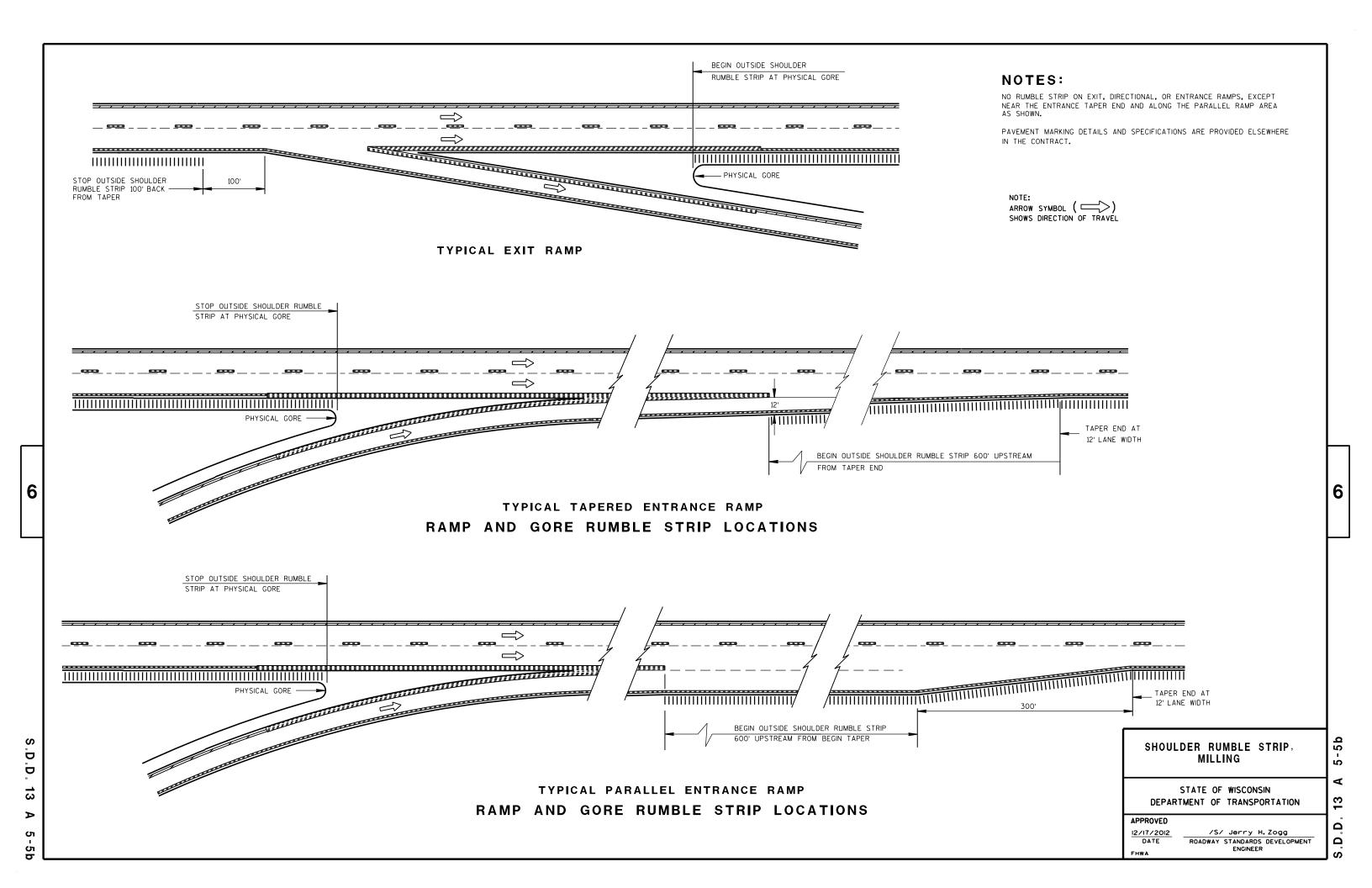
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE STATE TRAFFIC ENGINEER OF DESIGN

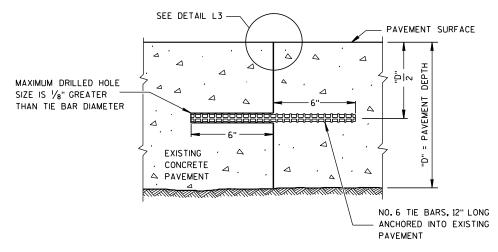
RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED





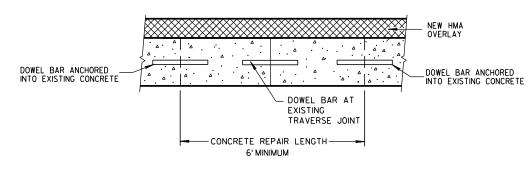
PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR



SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H-H

CONCRETE BASE

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

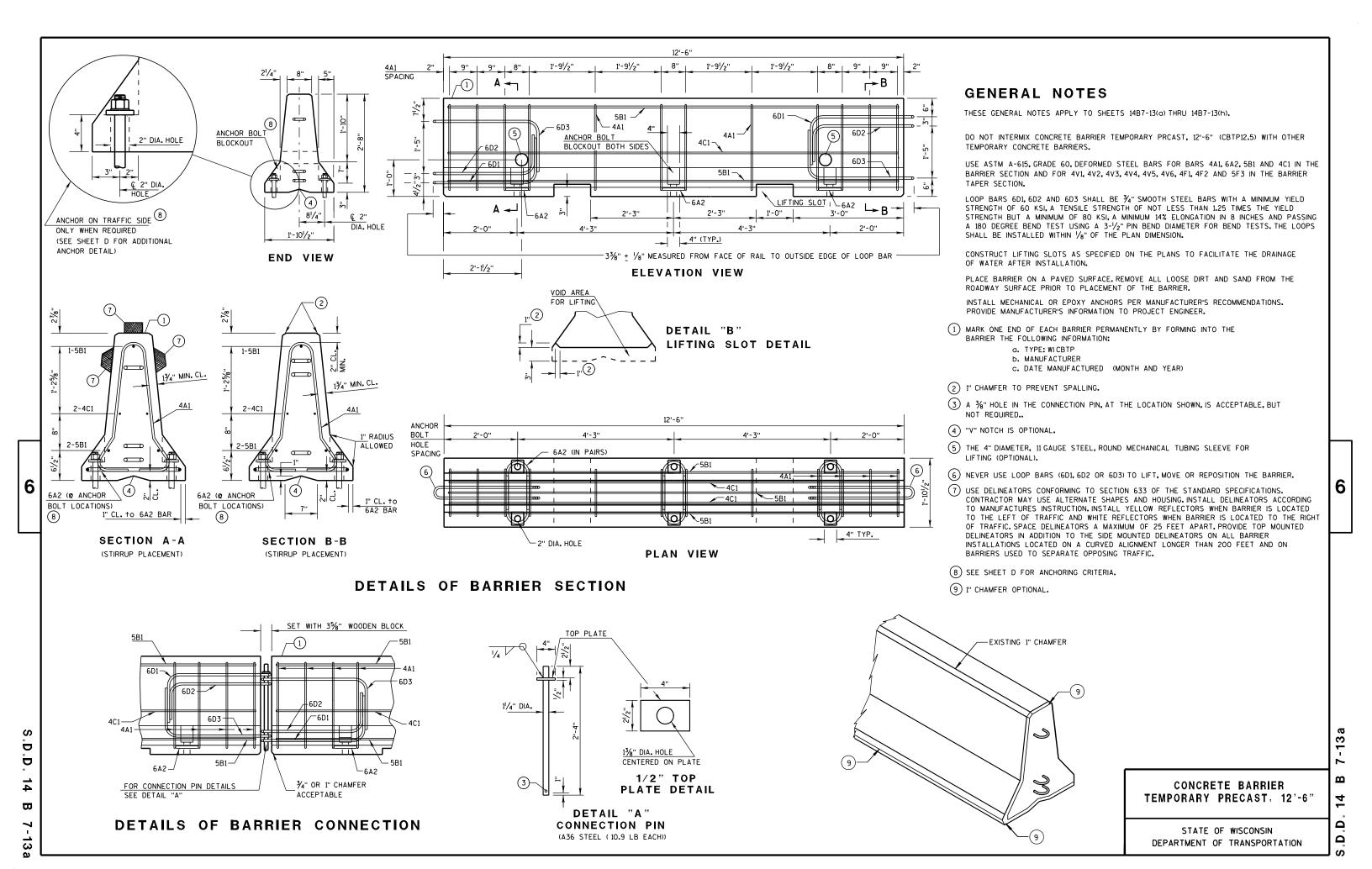
APPROVED

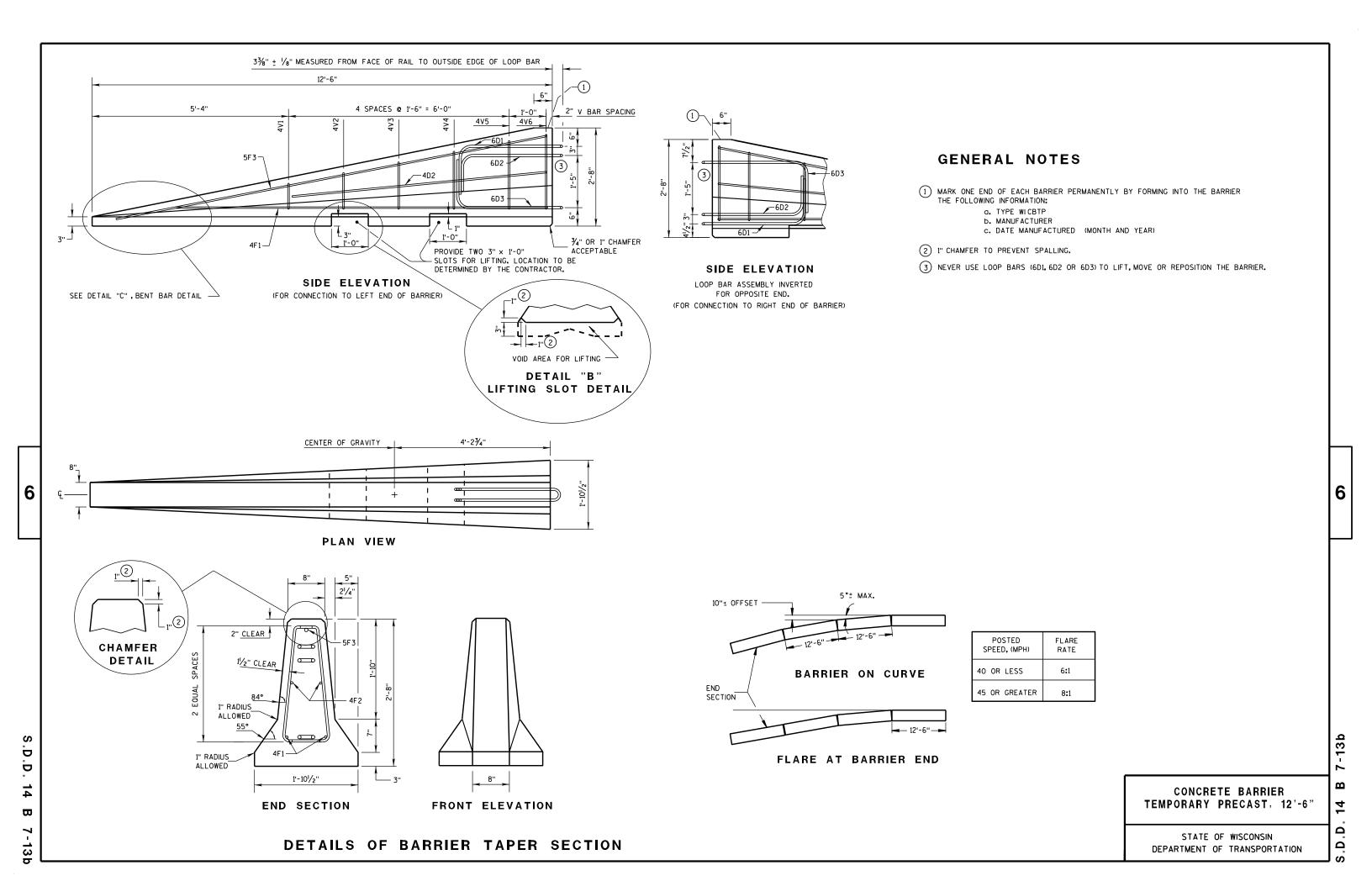
/S/ Deb Bischoff PAVEMENT POLICY & DESIGN ENGINEER

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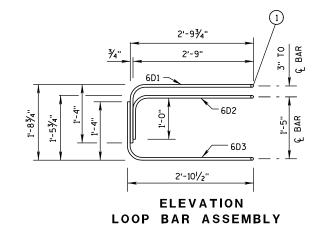
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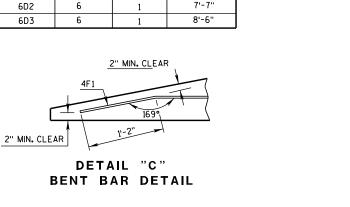
12-11-2009



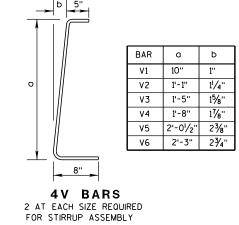


| (PER 12'-6" BARRIER TAPER SECTION) | | | | | | | |
|------------------------------------|-------------|-------------------|---------------|--|--|--|--|
| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. | | | | |
| 4V1 | 4 | 2 | 1'-11" | | | | |
| 4V2 | 4 | 2 | 2'-2" | | | | |
| 4V3 | 4 | 2 | 2'-6" | | | | |
| 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 | | | | | | | |





8'-5" 7'-7"



TAPER BARRIER SECTION

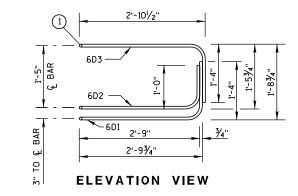
GENERAL NOTES

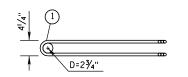
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

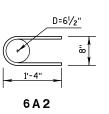
| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. | | | |
|---------------|-------------|-------------------|---------------|--|--|--|
| 4A1 | 4 | 12 | 6'-0" | | | |
| 6A2 | 6 | 6 | 2'-11" | | | |
| 5B1 | 5 | 3 | 12'-2" | | | |
| 4C1 | 4 | 2 | 12'-2" | | | |
| LOOP ASSEMBLY | | | | | | |
| 6D1 | 6 | 2 | 8'-5"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

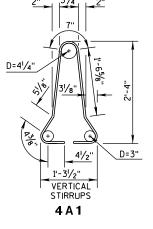




PLAN VIEW
LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)



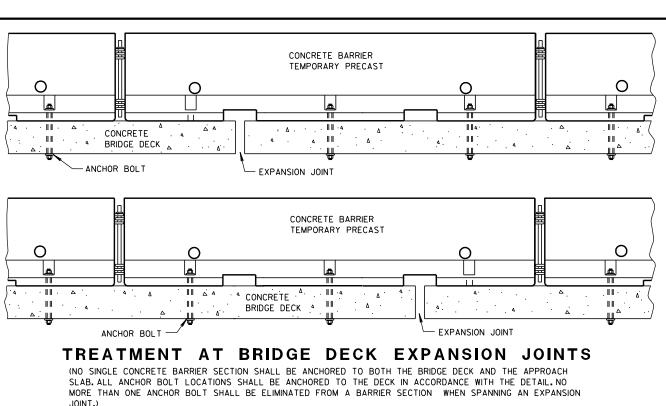


BARRIER SECTION

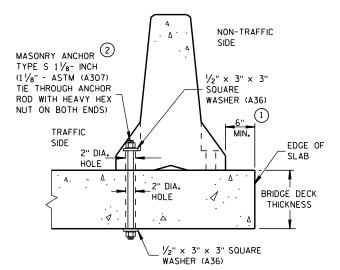
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

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

CONCRETE BARRIER

TEMPORARY PRECAST

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

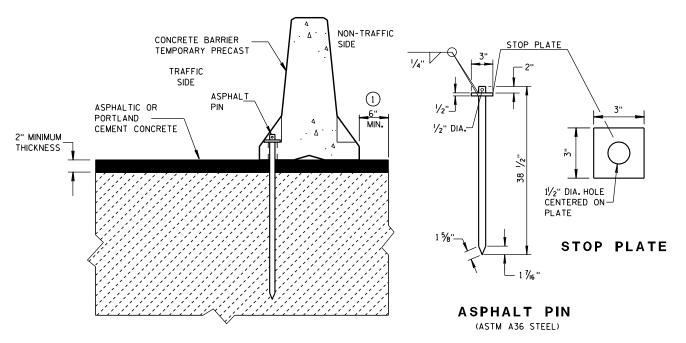
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF: THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED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

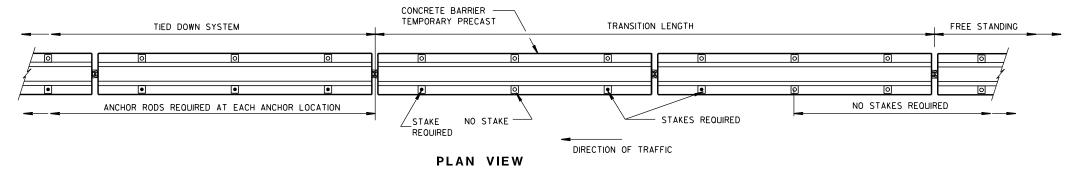
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/a-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE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



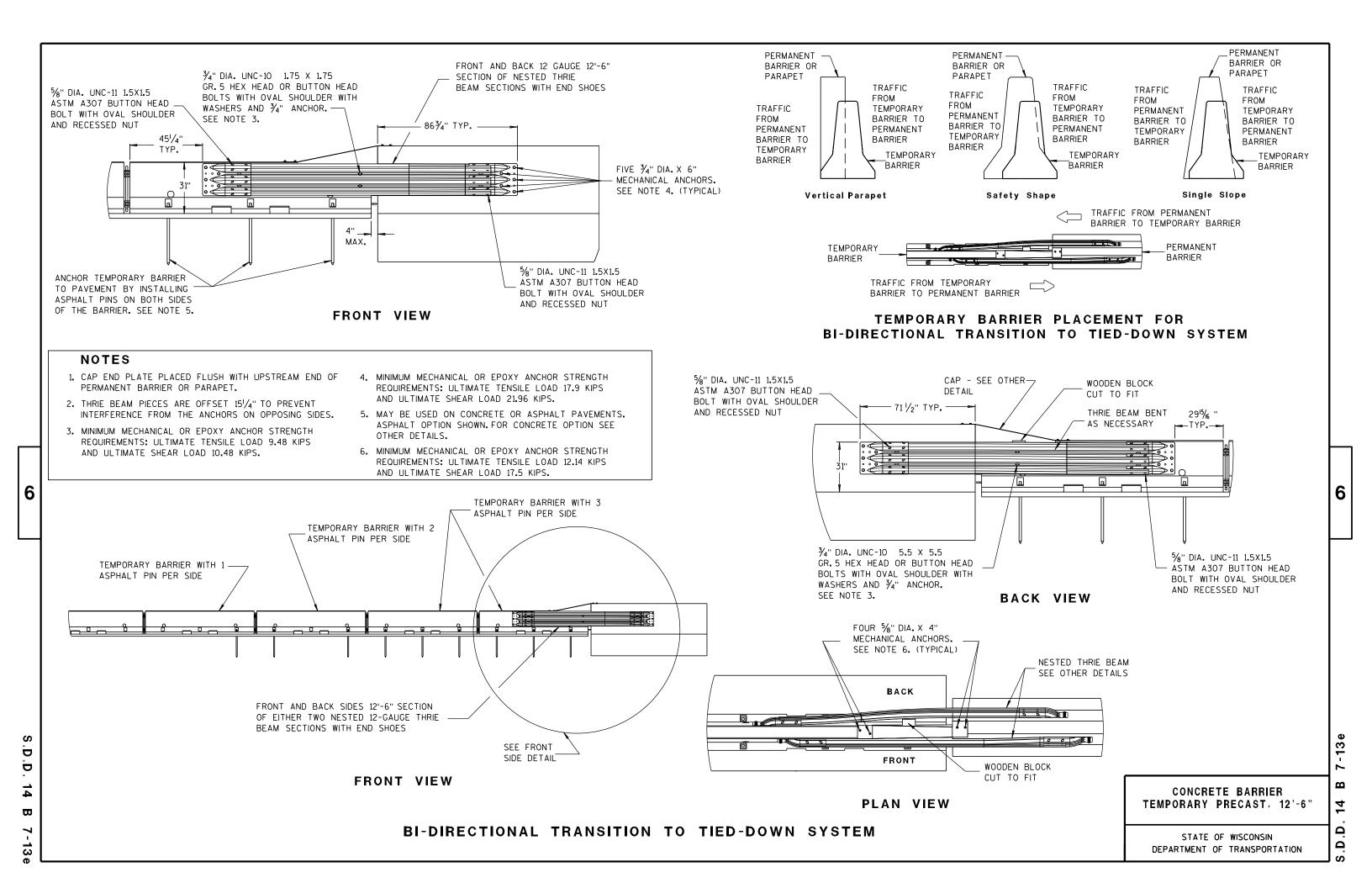
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

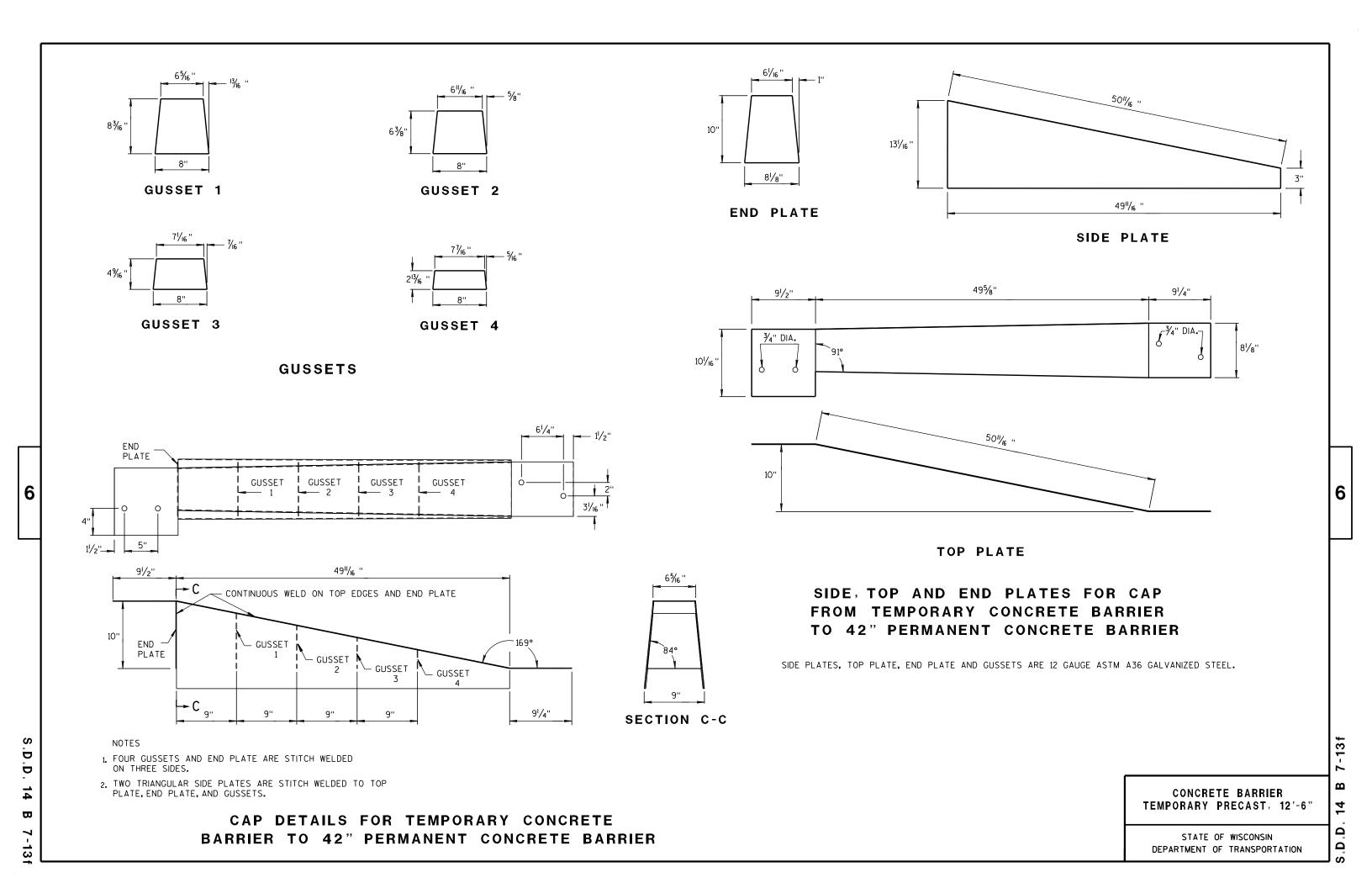
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

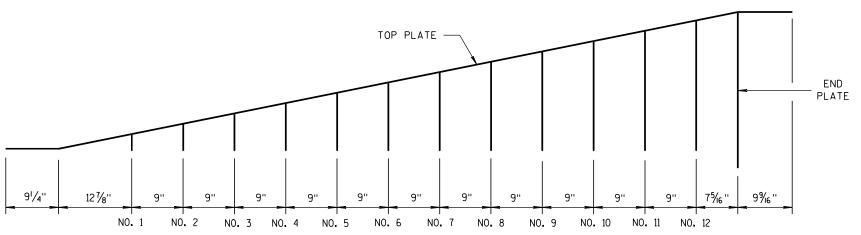
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6'

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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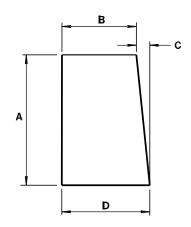






GUSSET LOCATION

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% " | 1/2" | 8 | | |
| 3 | 61/2" | 73/8" | 11/16 " | 81/16 " | | |
| 4 | 85/16" | 73/16" | 7/8" | 81/16" | | |
| 5 | 101/8" | 7'' | 1 1/16 " | 8½ ₆ " | | |
| 6 | 11 ¹⁵ / ₁₆ '' | 6 ¹³ / ₁₆ '' | 1 1/4" | 8½ ₆ " | | |
| 7 | 13¾" | 65⁄8'' | 1 1/6" | 8½ ₆ " | | |
| 8 | 15% " | 6 ⅓ ₆ '' | 1 % " | 8½6" | | |
| 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 " | 5 ¹¹ / ₁₆ " | 25/6" | 81/16" | | |

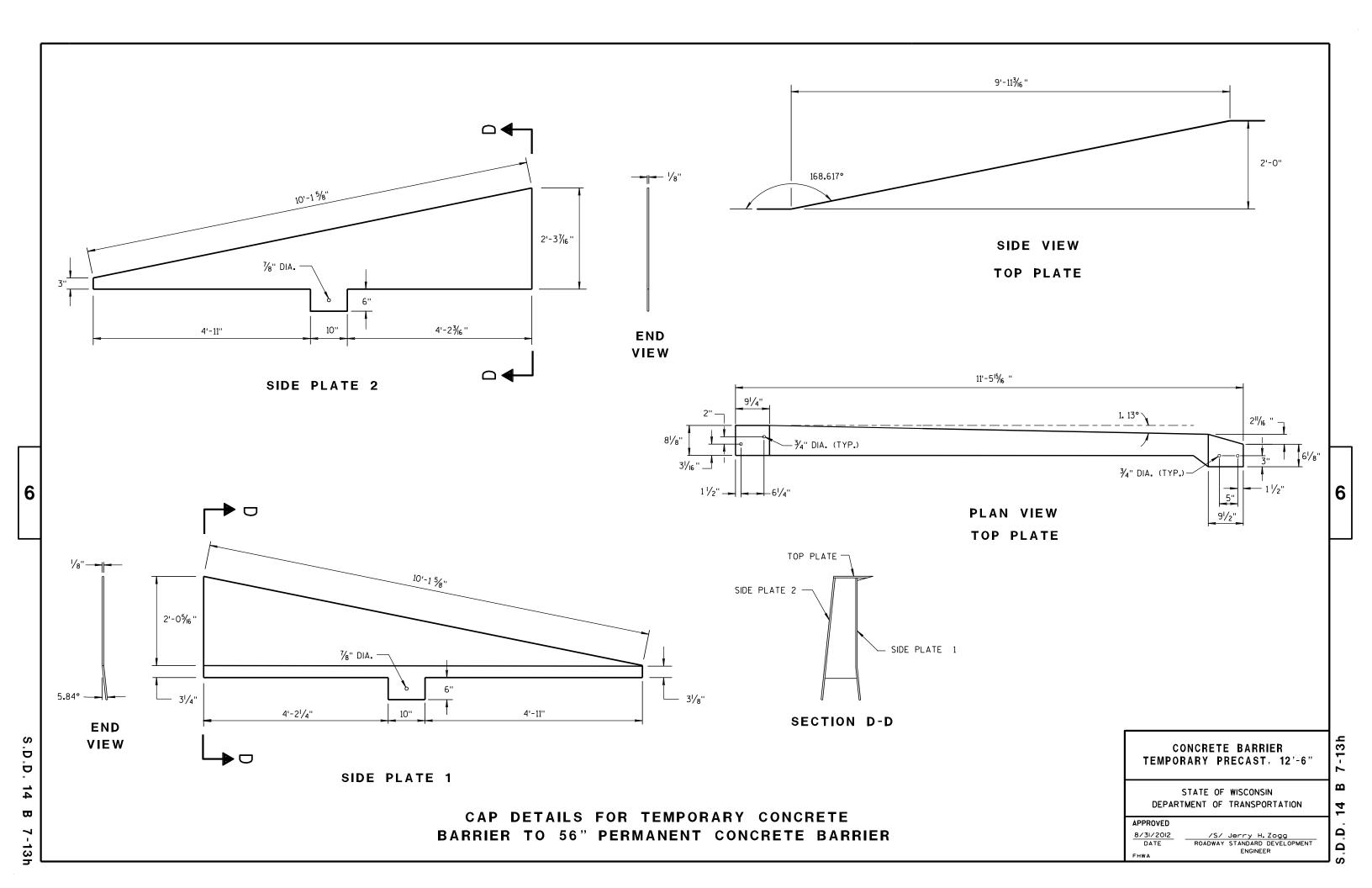
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

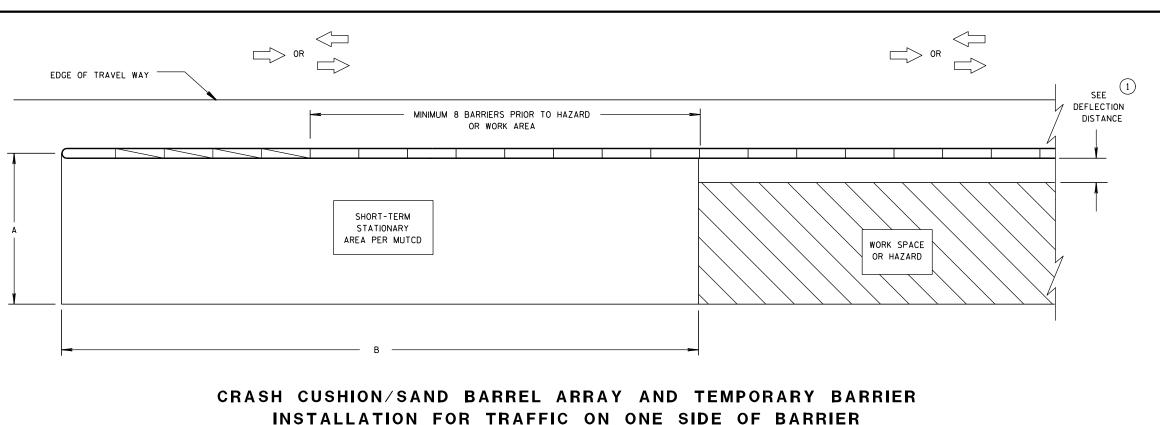
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

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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.

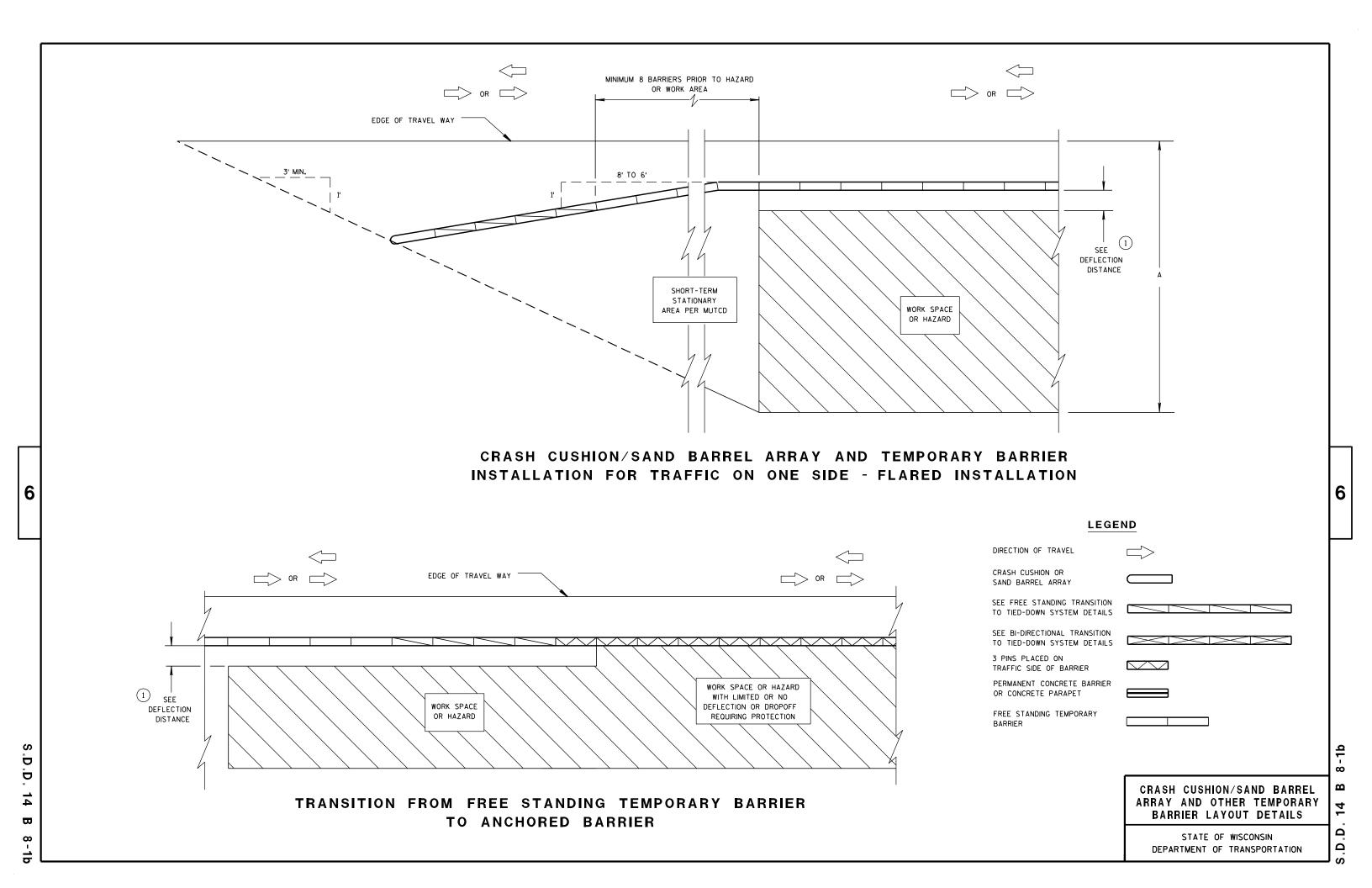
TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

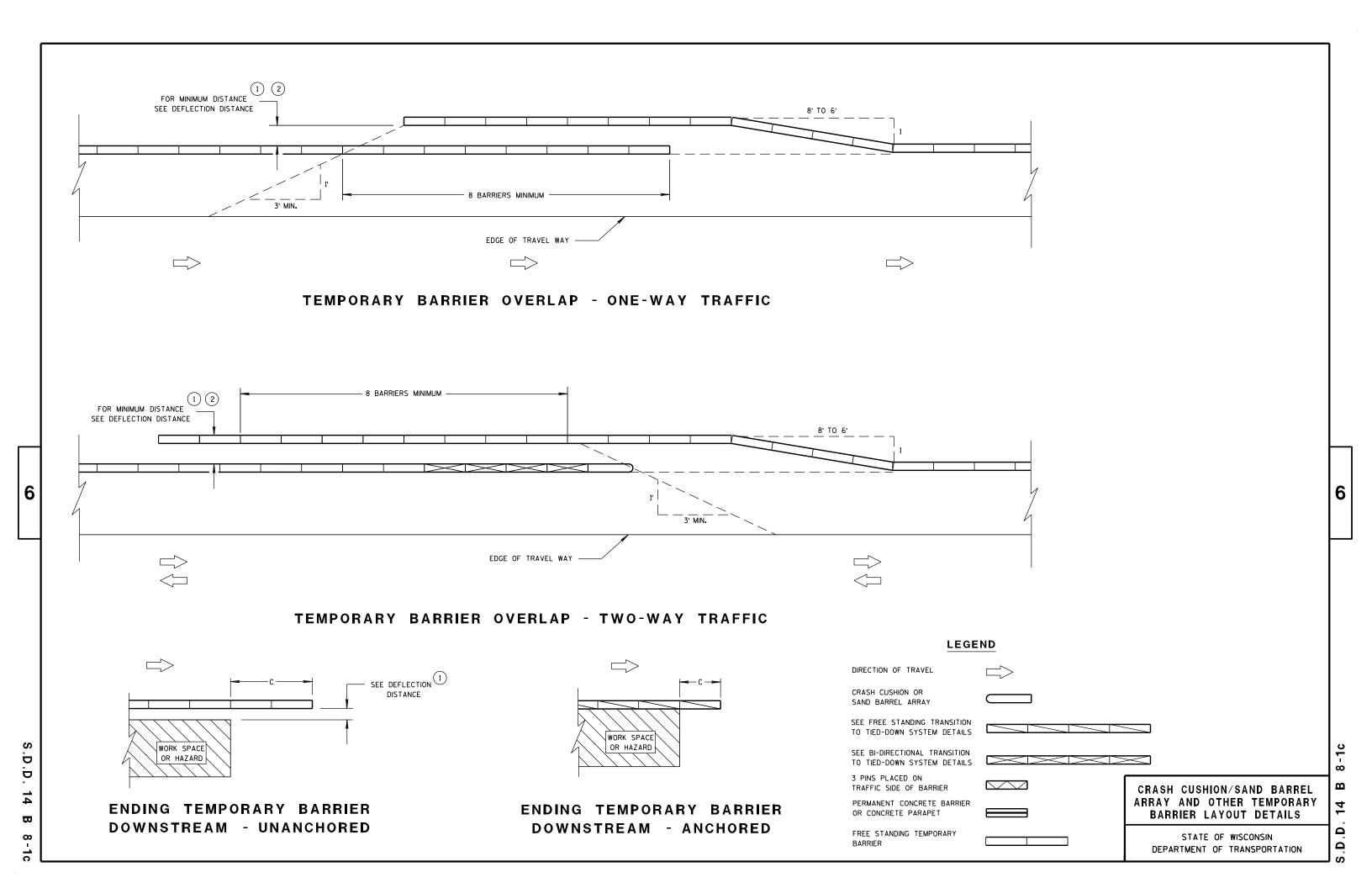
FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

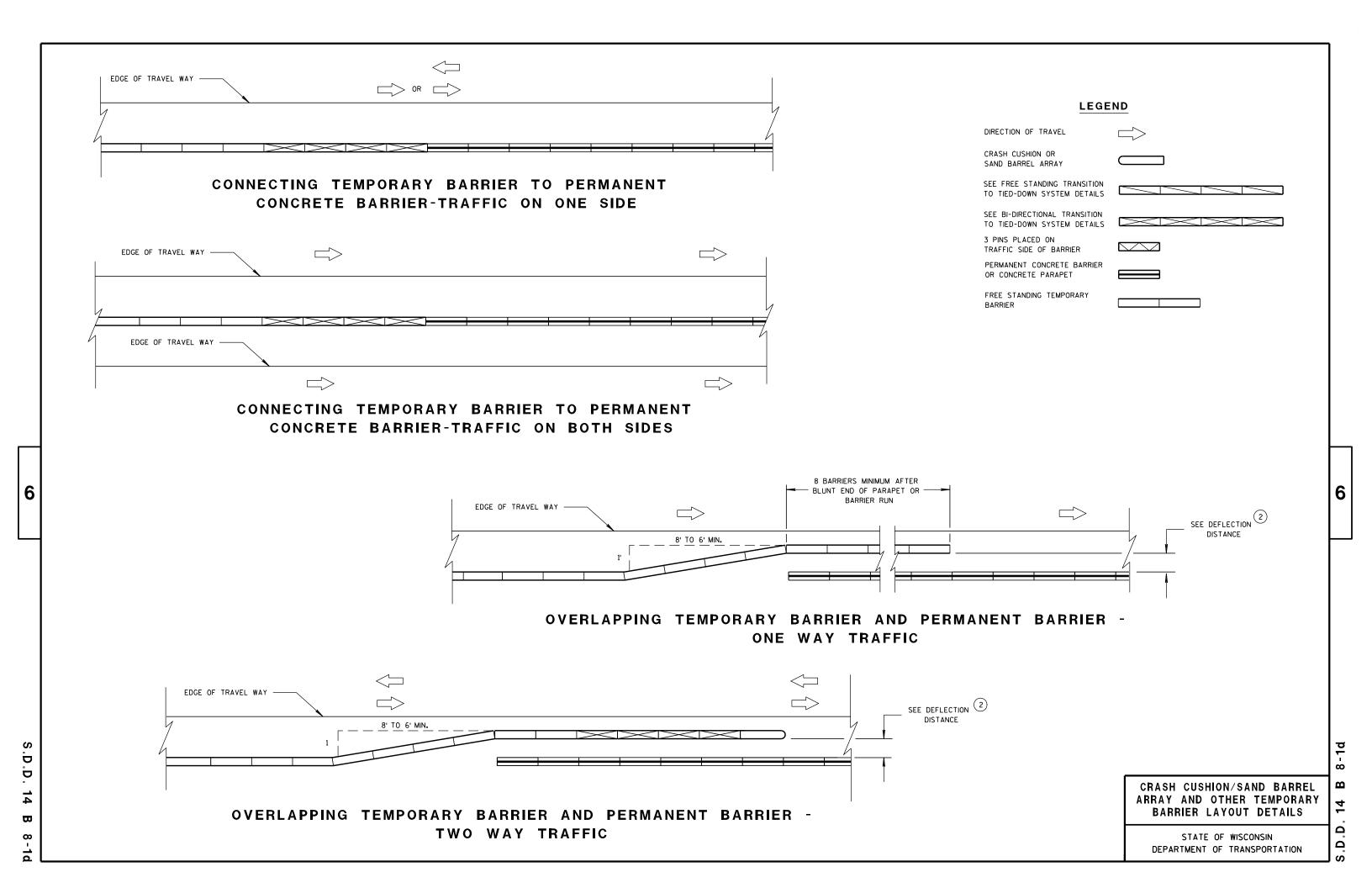
SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

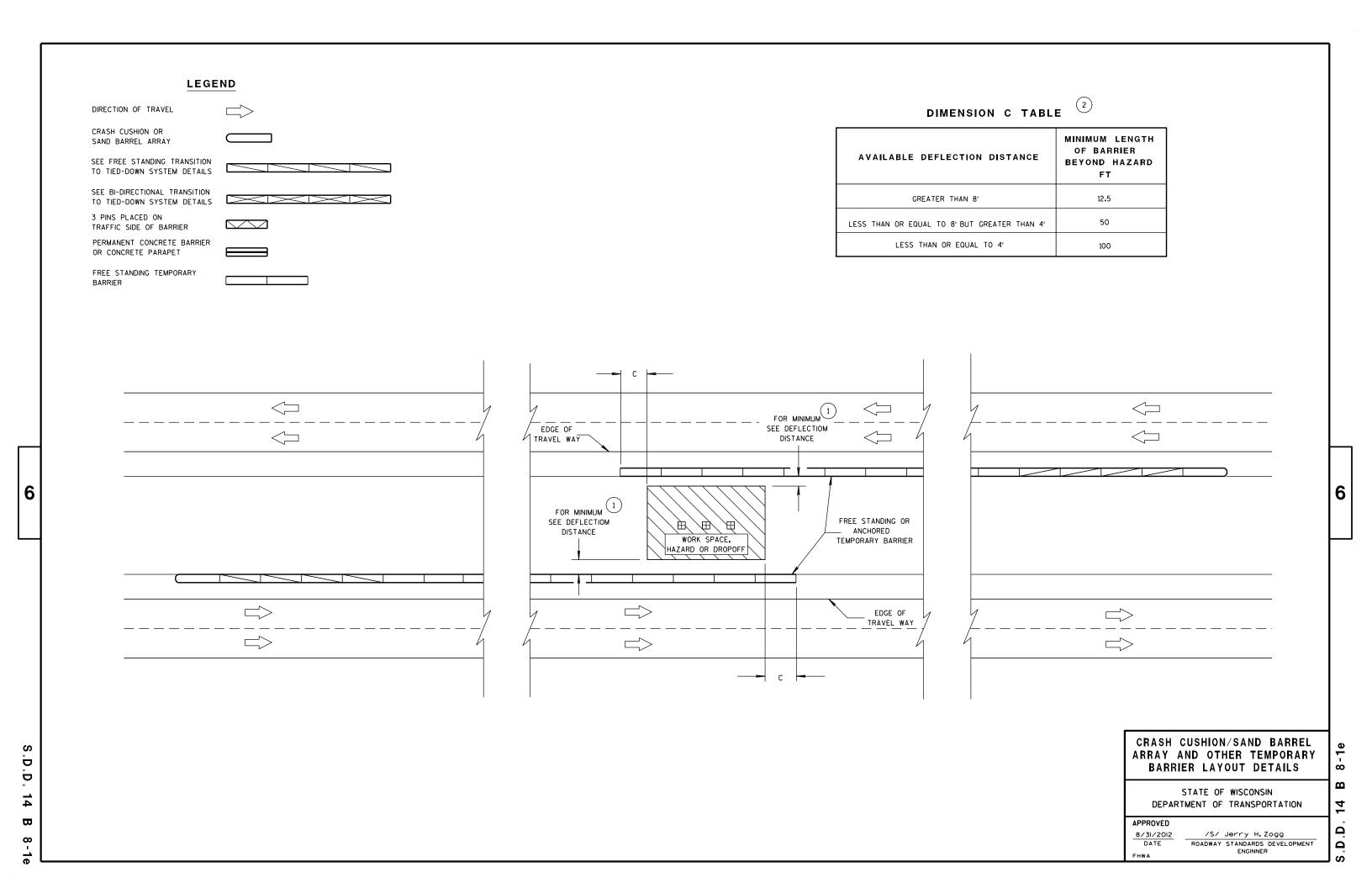
- (1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- (2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

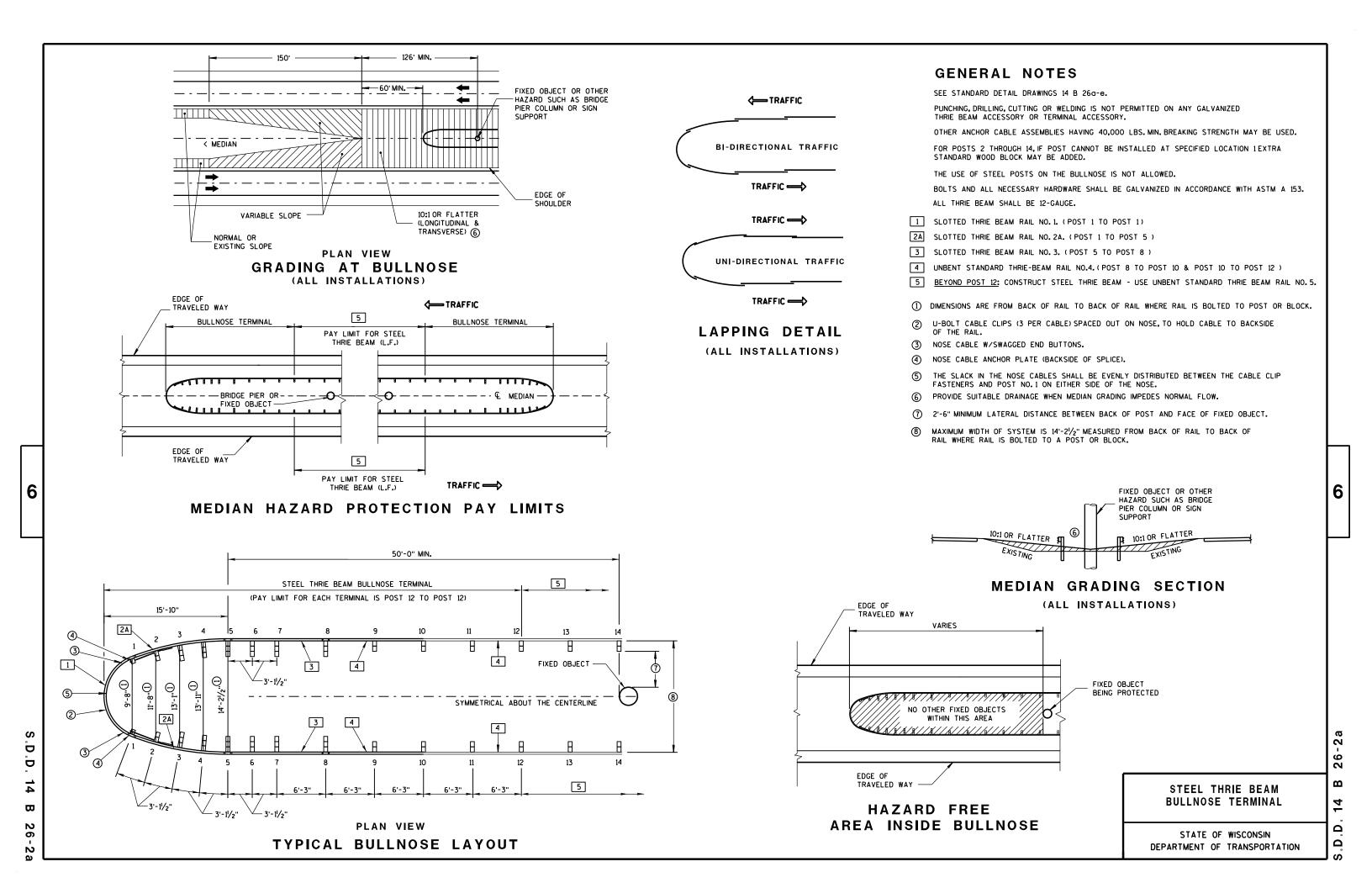
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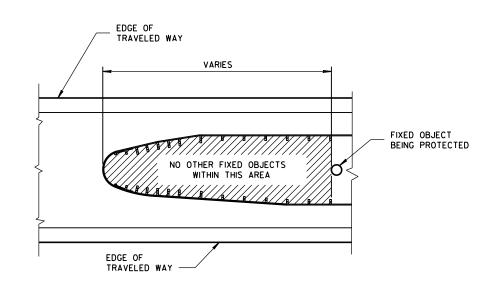












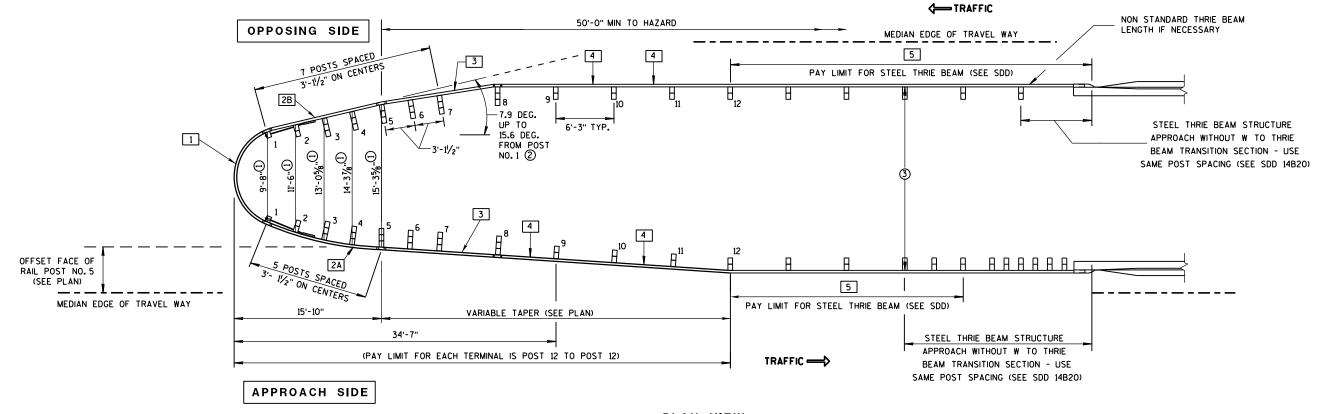
HAZARD FREE AREA INSIDE BULLNOSE

GENERAL NOTES

SEE STANDARD DETAIL DRAWINGS 14 B 26a-e.

FOR POSTS 2 THROUGH 14, IF POST CANNOT BE INSTALLED AT SPECIFIED LOCATION 1 EXTRA STANDARD WOOD BLOCK MAY BE ADDED.

- 1 SLOTTED THRIE BEAM RAIL NO. 1. (POST 1 TO POST 1)
- 2A SLOTTED THRIE BEAM RAIL NO. 2A, (POST 1 TO POST 5)
- 2B SLOTTED THRIE BEAM RAIL NO. 2B, (POST 1 TO POST 5)
- 3 SLOTTED THRIE BEAM RAIL NO. 3. (POST 5 TO POST 8)
- 4 UNBENT STANDARD THRIE-BEAM RAIL NO. 4, (POST 8 TO POST 10 & POST 10 TO POST 12)
- BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.
- (1) DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST.
- TAPER BEGINNING AT POST NO.1 MUST CONTINUE TO POST NO.5. PAST POST NO.5 TAPER MAY END OR BE EXTENDED UP TO 15.6 DEGREES TO FIT VARIABLE MEDIAN WIDTHS. (SEE PLAN)
- FOR MEDIANS WIDER THAN 14'-21/2" MEASURED FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.



PLAN VIEW

WIDENED BULLNOSE DESIGN

(INSTALLATION AT TWIN BRIDGES WITH BI-DIRECTIONAL TRAFFIC SHOWN)

STEEL THRIE BEAM **BULLNOSE TERMINAL**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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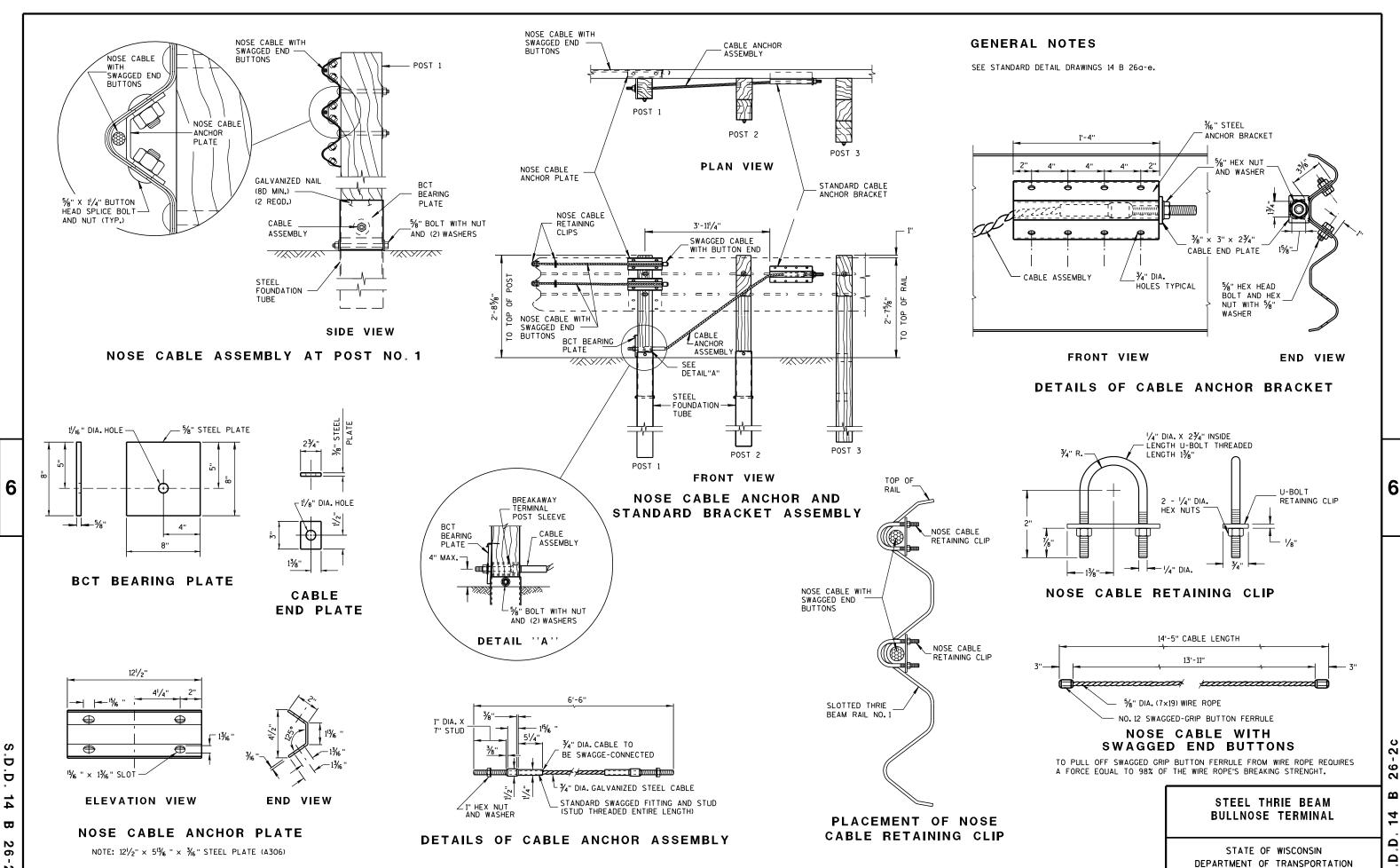
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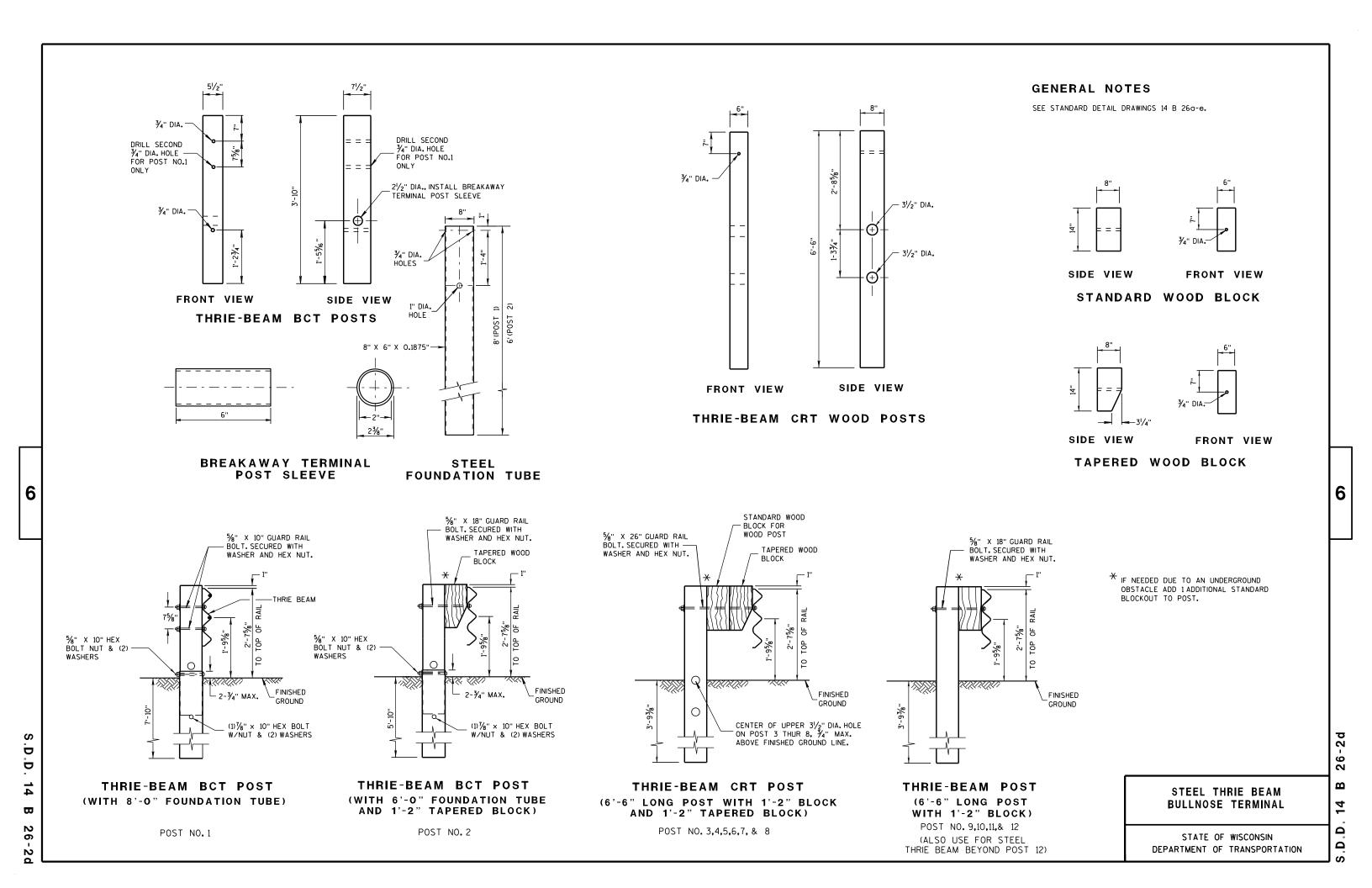
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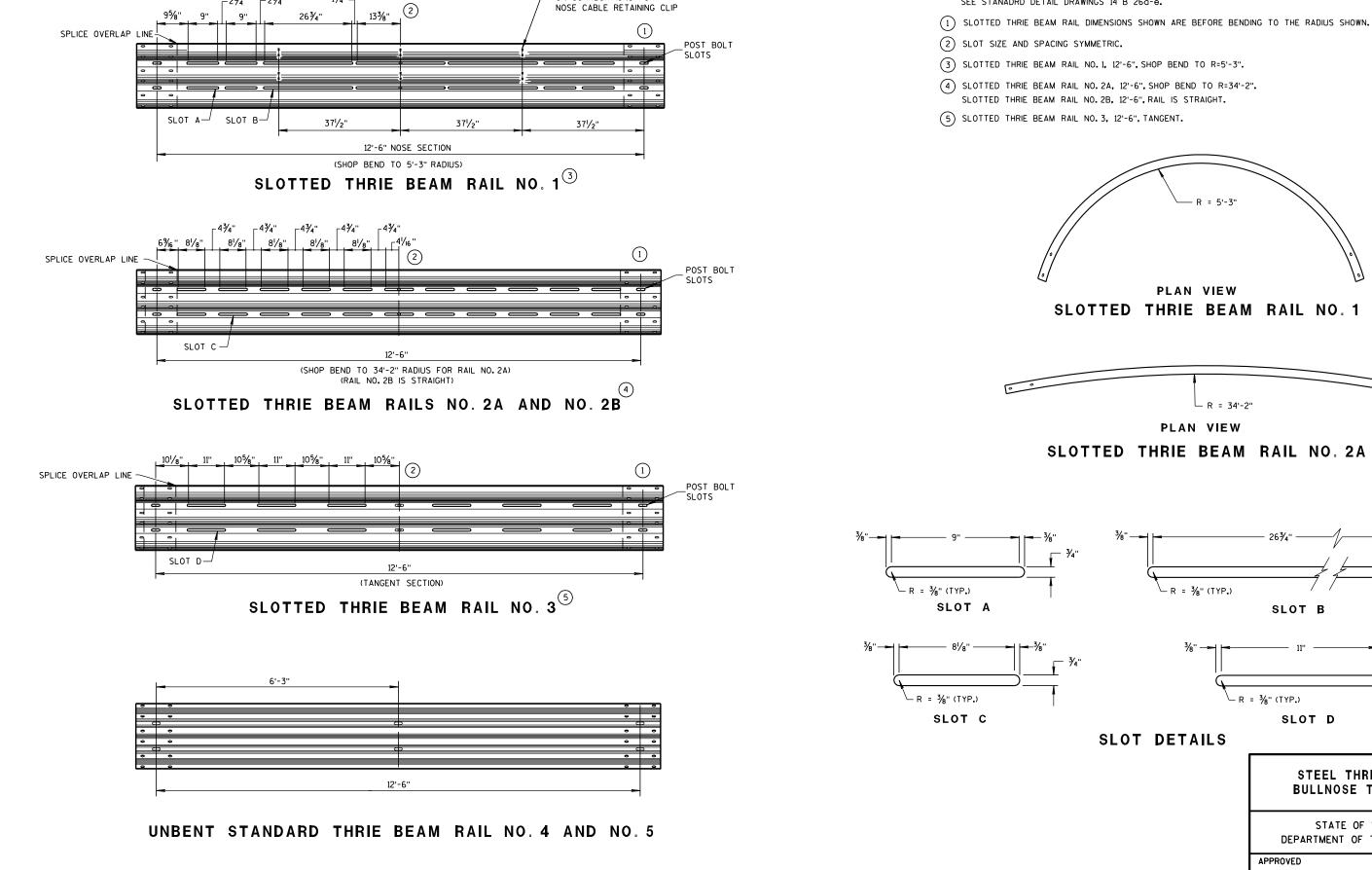
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3/6" DIA. X 1/2" SLOTS ON CORRUGATIONS FOR

NOSE CABLE RETAINING CLIP

SLOT B

GENERAL NOTES

SEE STANADRD DETAIL DRAWINGS 14 B 26a-e.

- R = 3/8" (TYP.)

SLOT D

STEEL THRIE BEAM **BULLNOSE TERMINAL**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER 9-16-2010

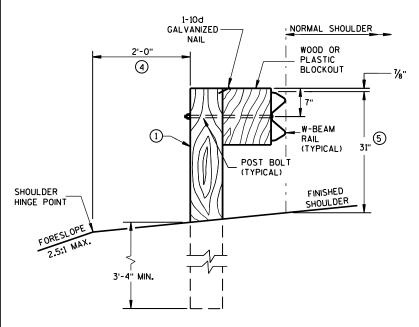
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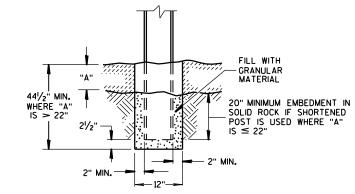
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

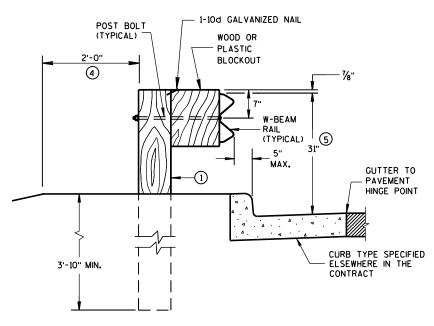


END VIEW

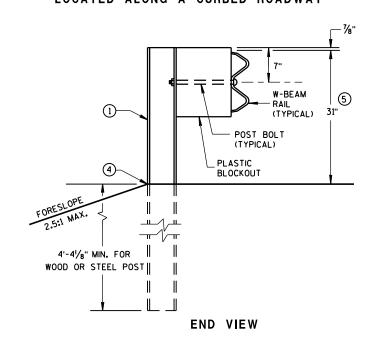
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



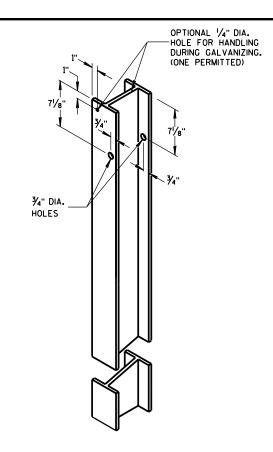
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



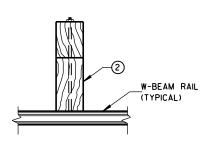
END VIEW
LOCATED ALONG A CURBED ROADWAY



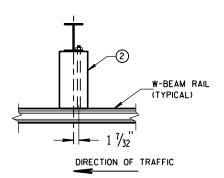
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



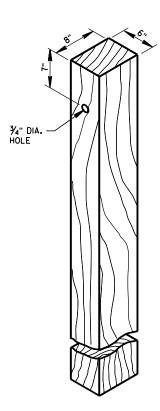
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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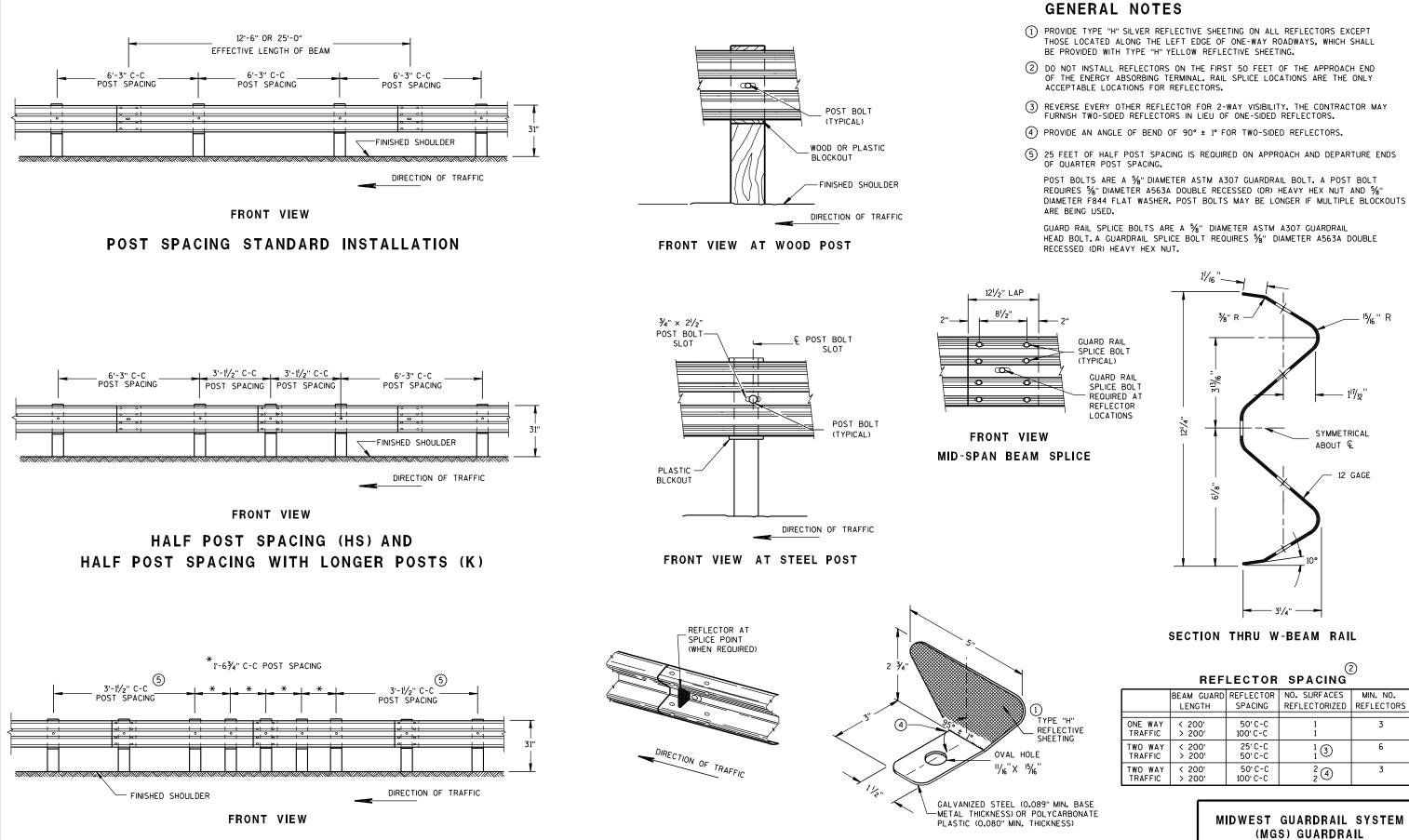
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ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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QUARTER POST SPACING (QS)

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REFLECTOR SPACING

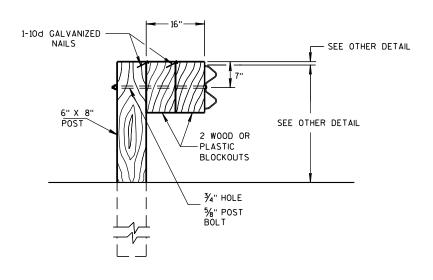
| | BEAM GUARD LENGTH | REFLECTOR SPACING | NO. SURFACES REFLECTORIZED | MIN. NO. REFLECTORS |
|--------------------|----------------------|----------------------|-------------------------------|------------------------|
| ONE WAY | < 200' > 200' | 50' C-C 100' C-C | 1 1 | 3 |
| TWO WAY | < 200' > 200' | 25' C-C 50' C-C | 1 3 | 6 |
| TWO WAY TRAFFIC | < 200' > 200' | 50' C-C 100' C-C | 2 4 | 3 |

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

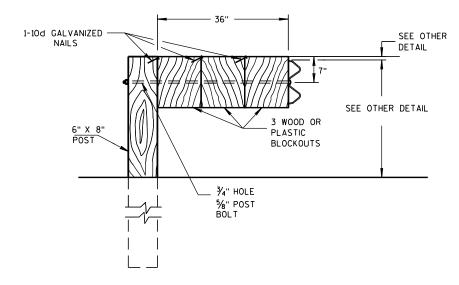
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DETAIL FOR 16" BLOCKOUT DEPTH

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

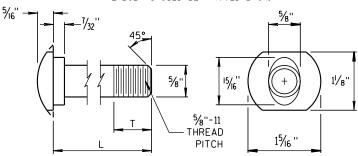


DETAIL FOR 36" BLOCKOUT DEPTH

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

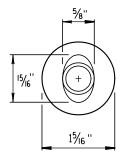
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

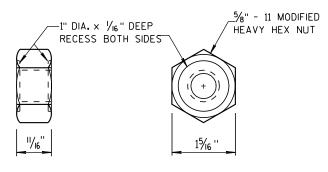


POST BOLT TABLE

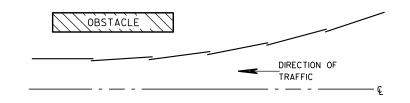
| L | T (MIN.) |
|-------|----------|
| 11/4" | 11/8" |
| 2" | 13/4" |
| 10'' | 4" |
| 14'' | 41/16" |
| 18" | 4" |
| 21" | 41/16" |
| 25" | 4" |



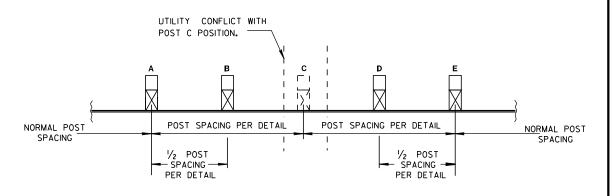
ALTERNATE BOLT HEAD



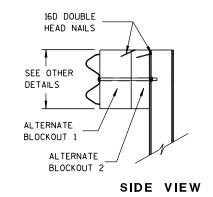
POST BOLT AND RECESS NUT

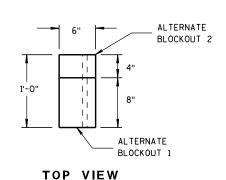


PLAN VIEW **BEAM LAPPING DETAIL**



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD

BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

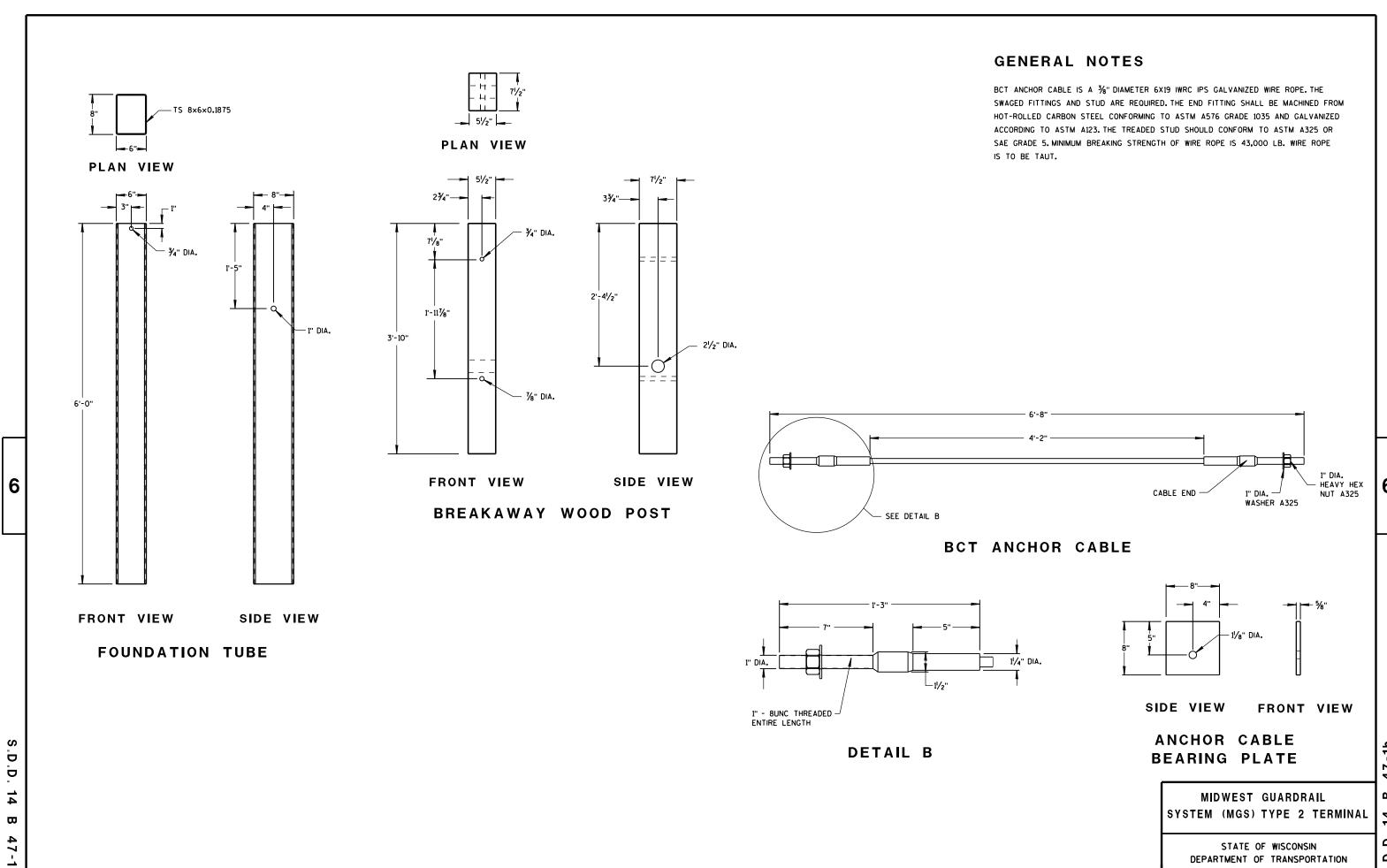
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END RAIL DETAIL

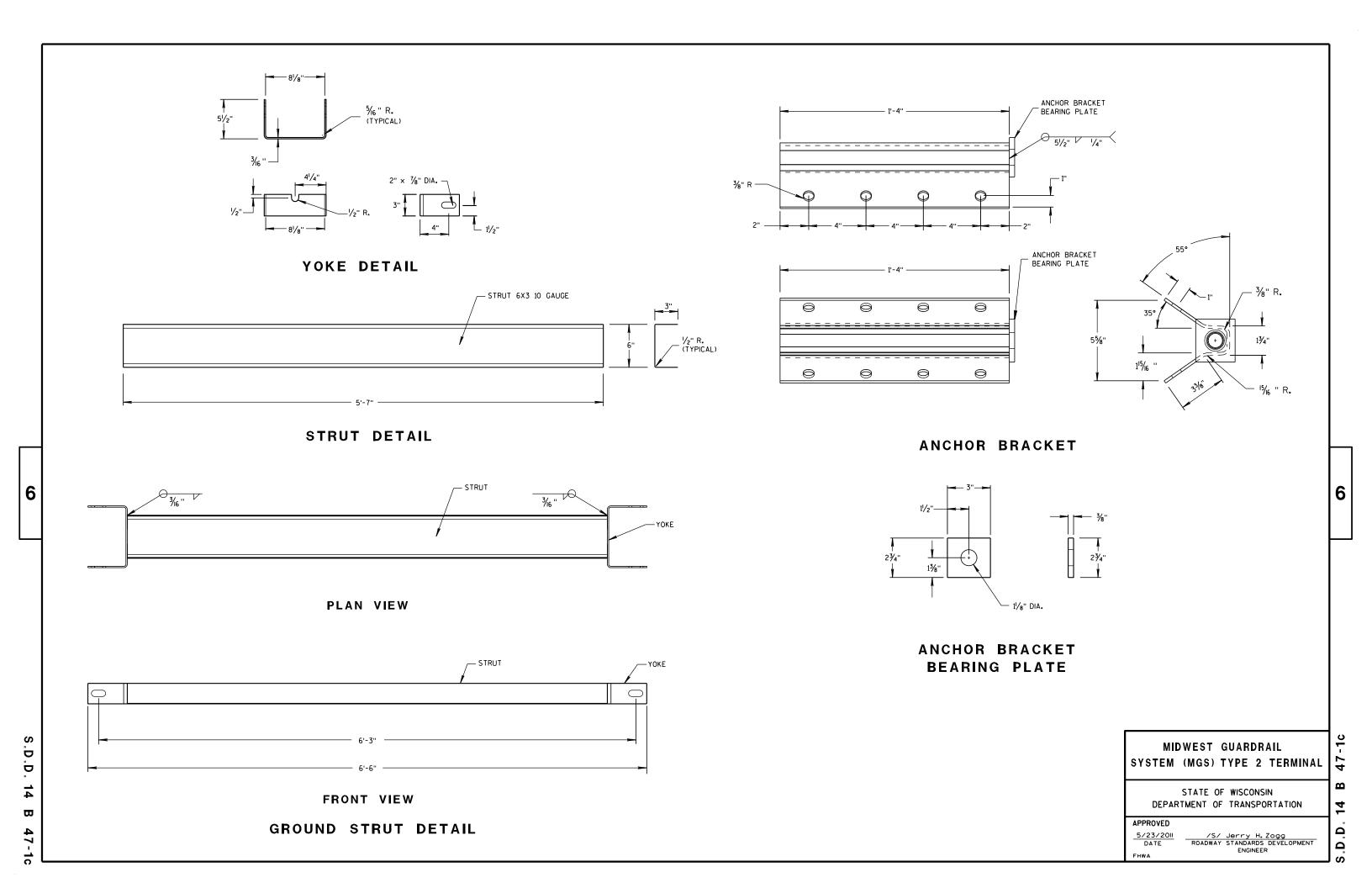
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STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION



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BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

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

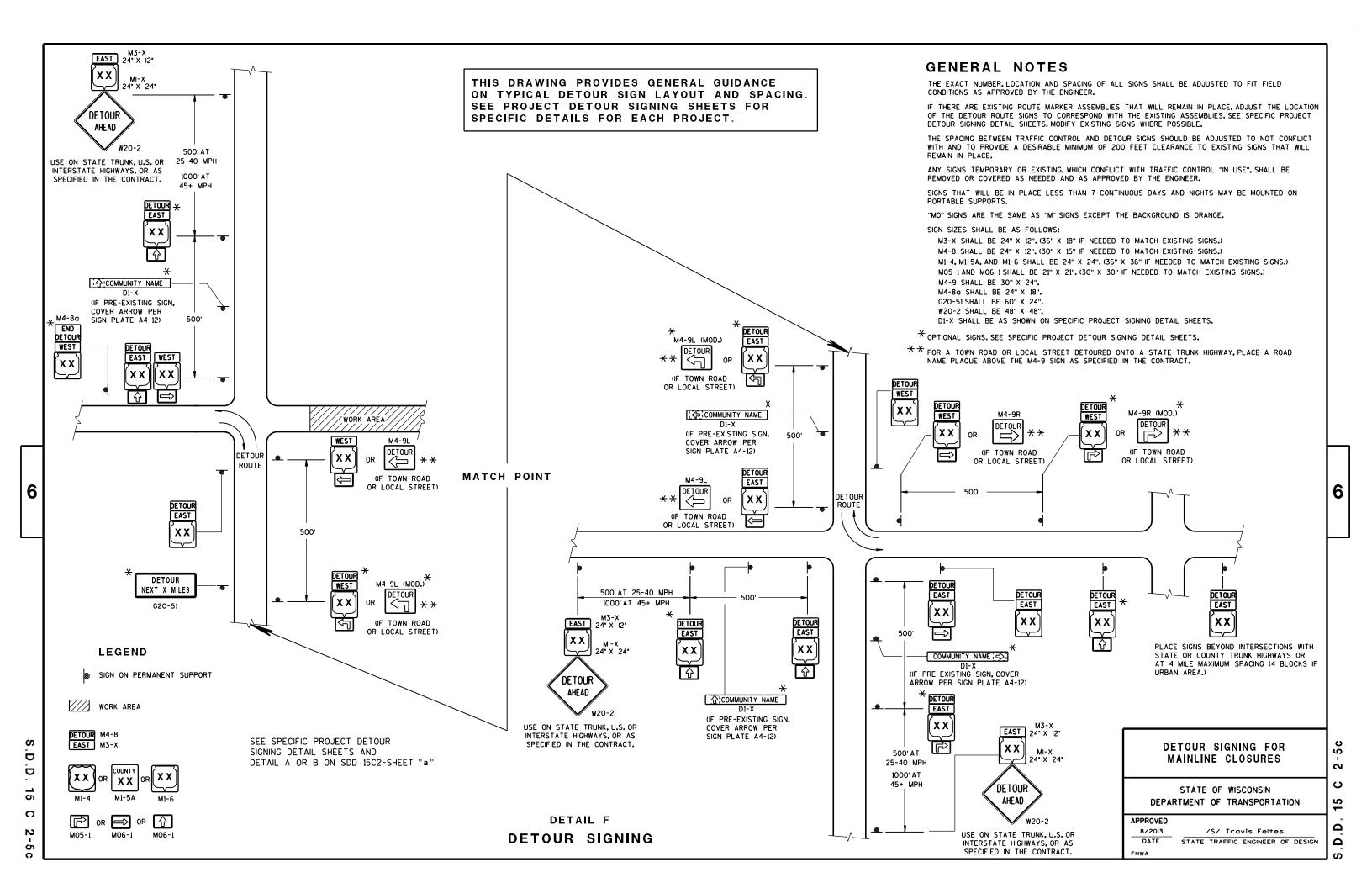
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

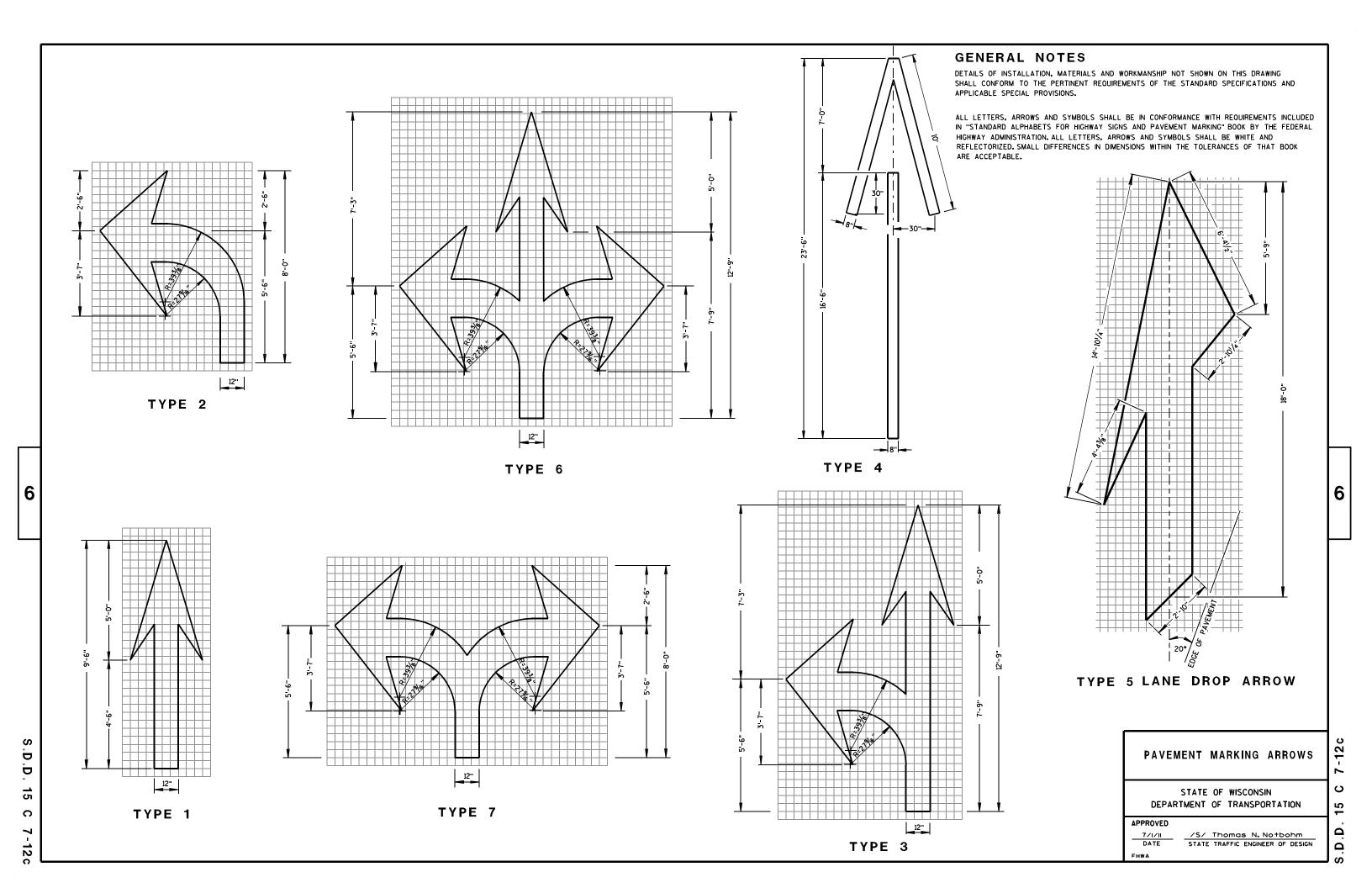
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

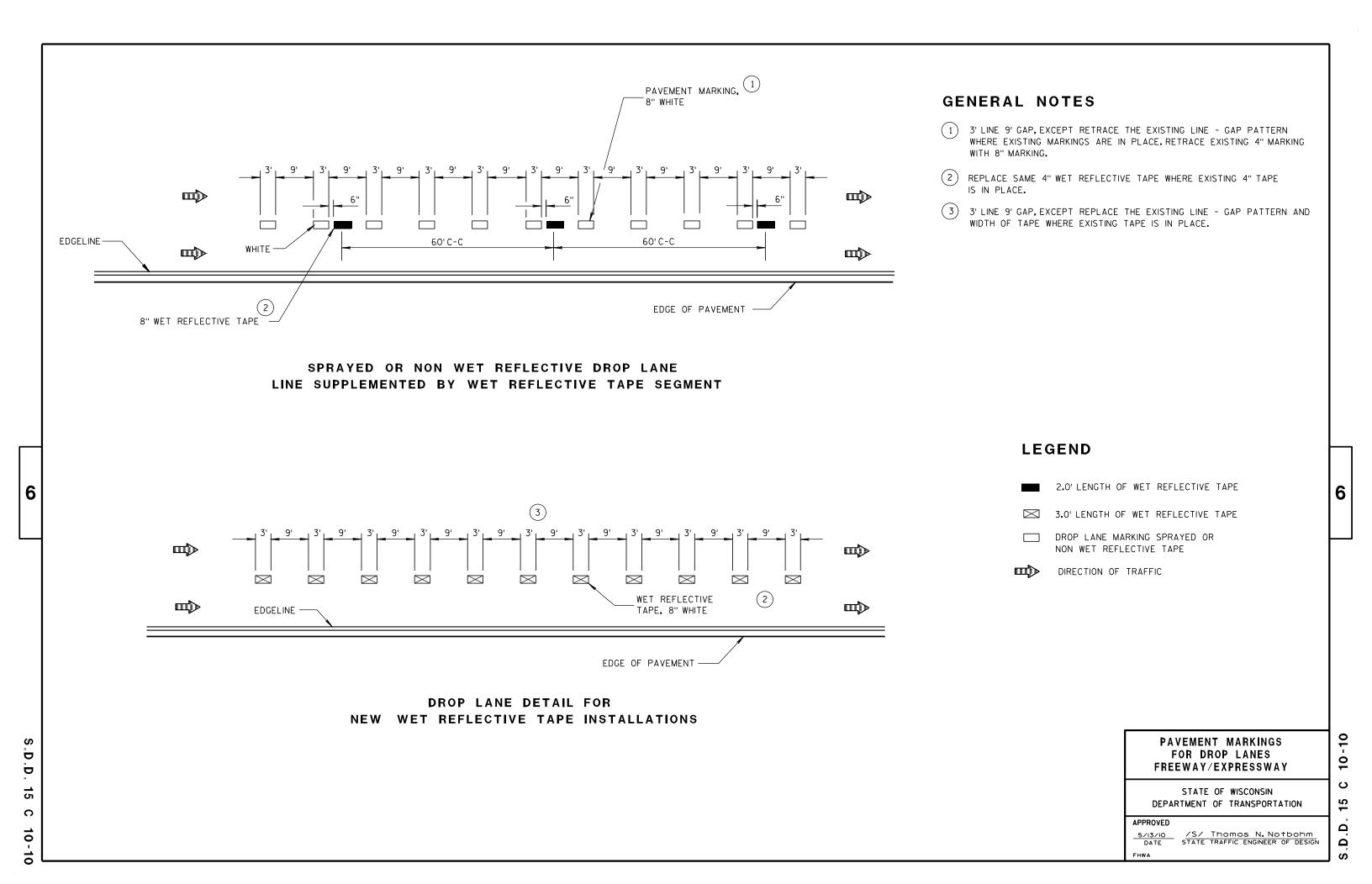
2

Δ

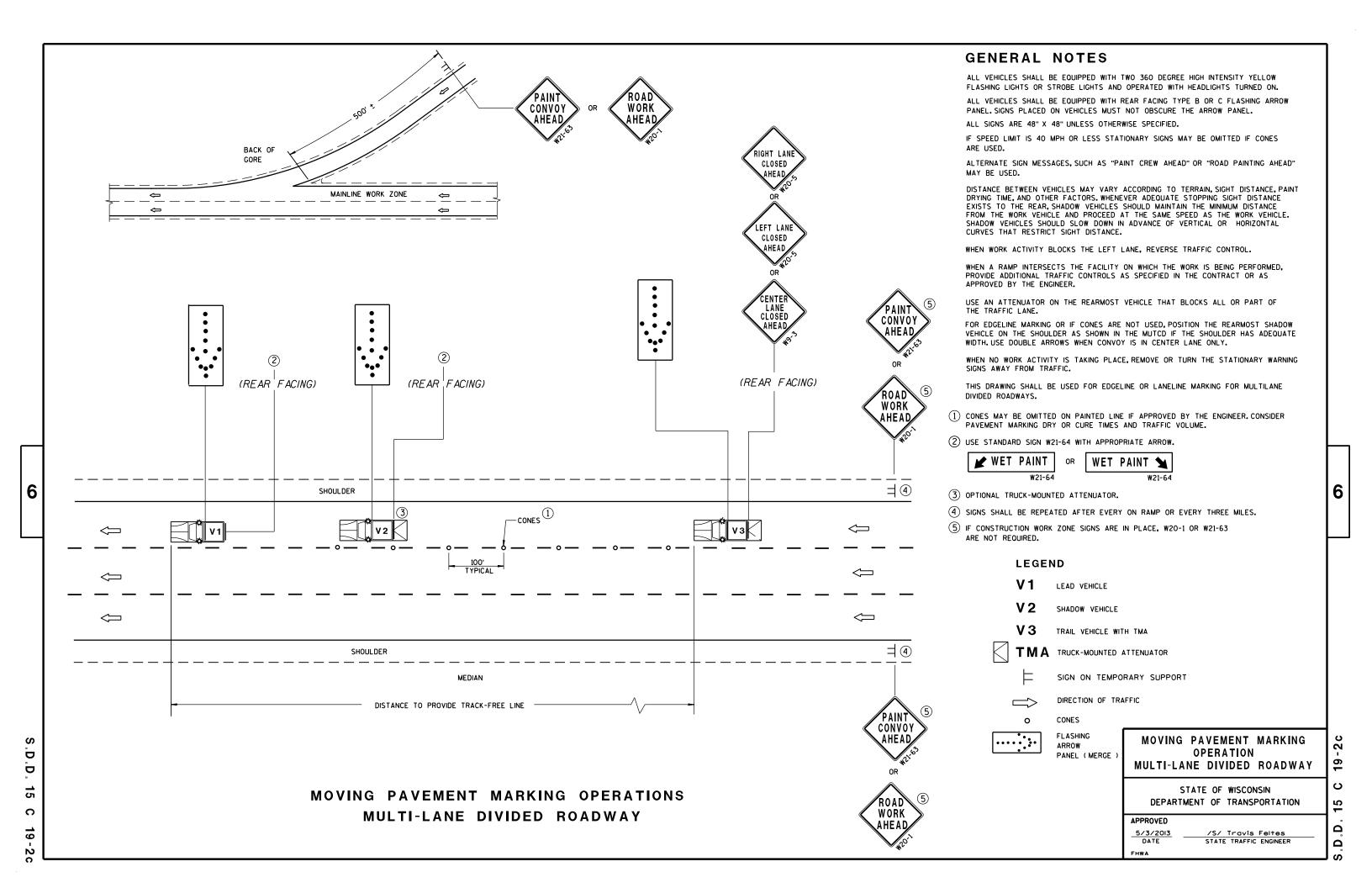


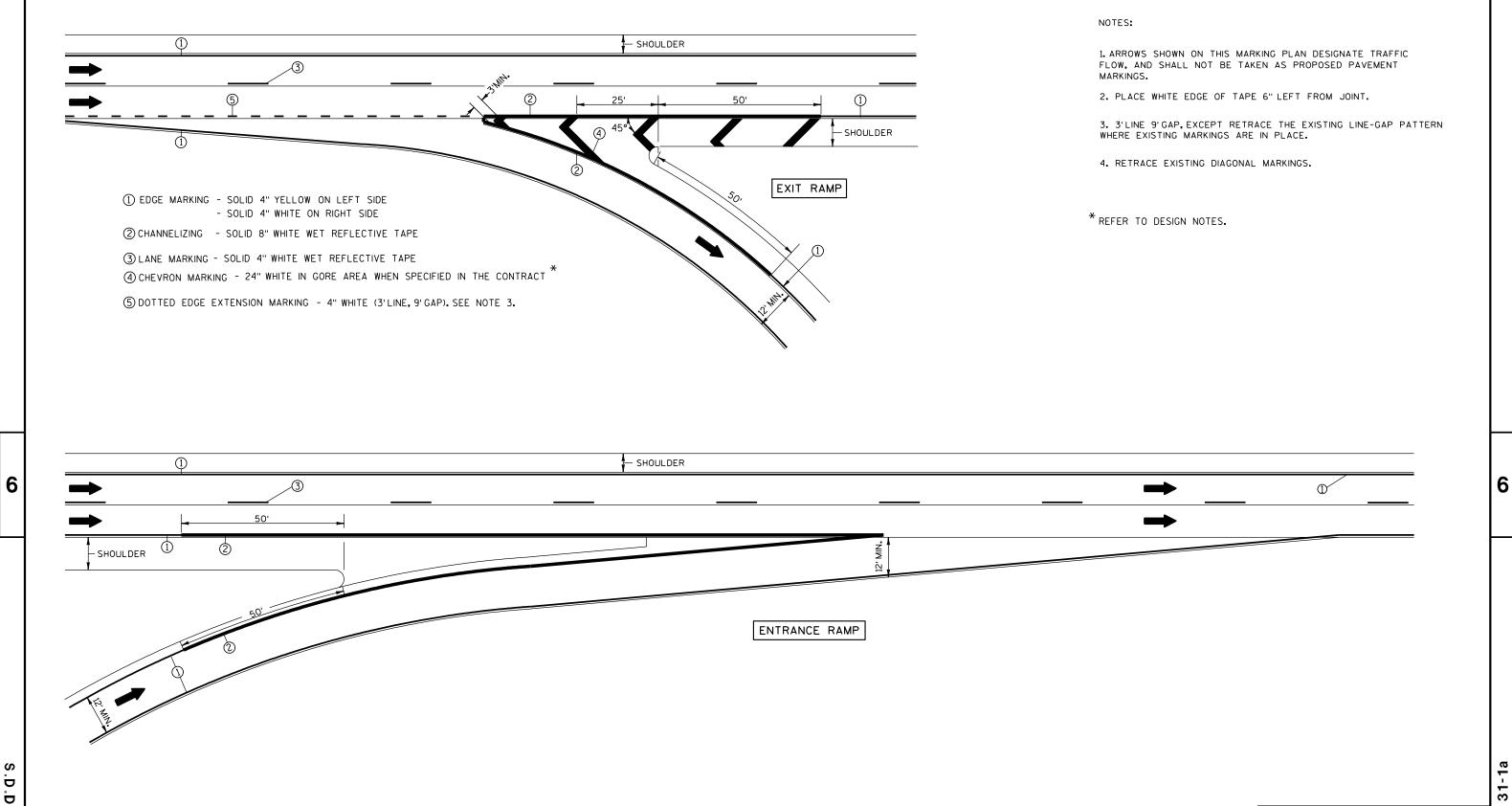










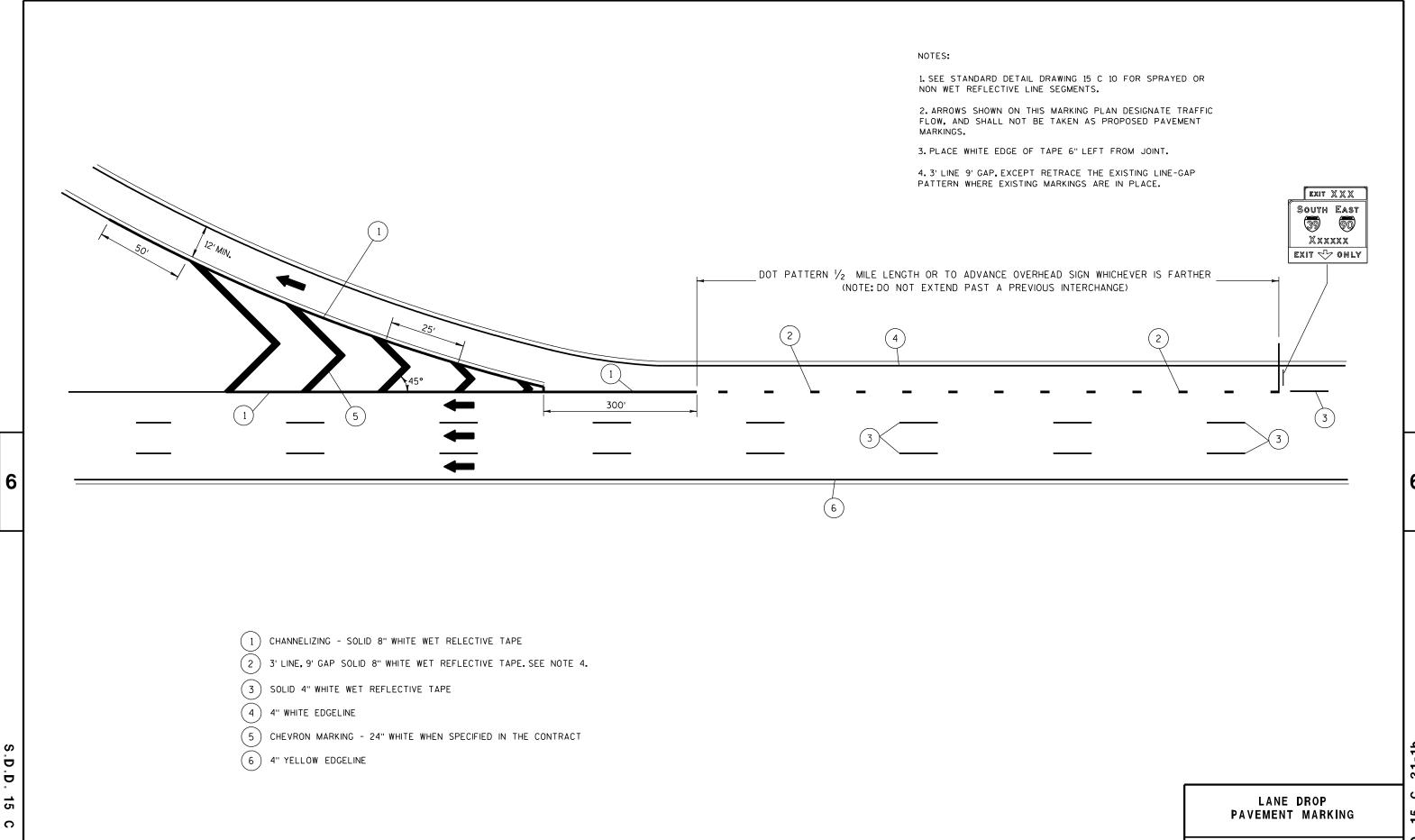


C

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

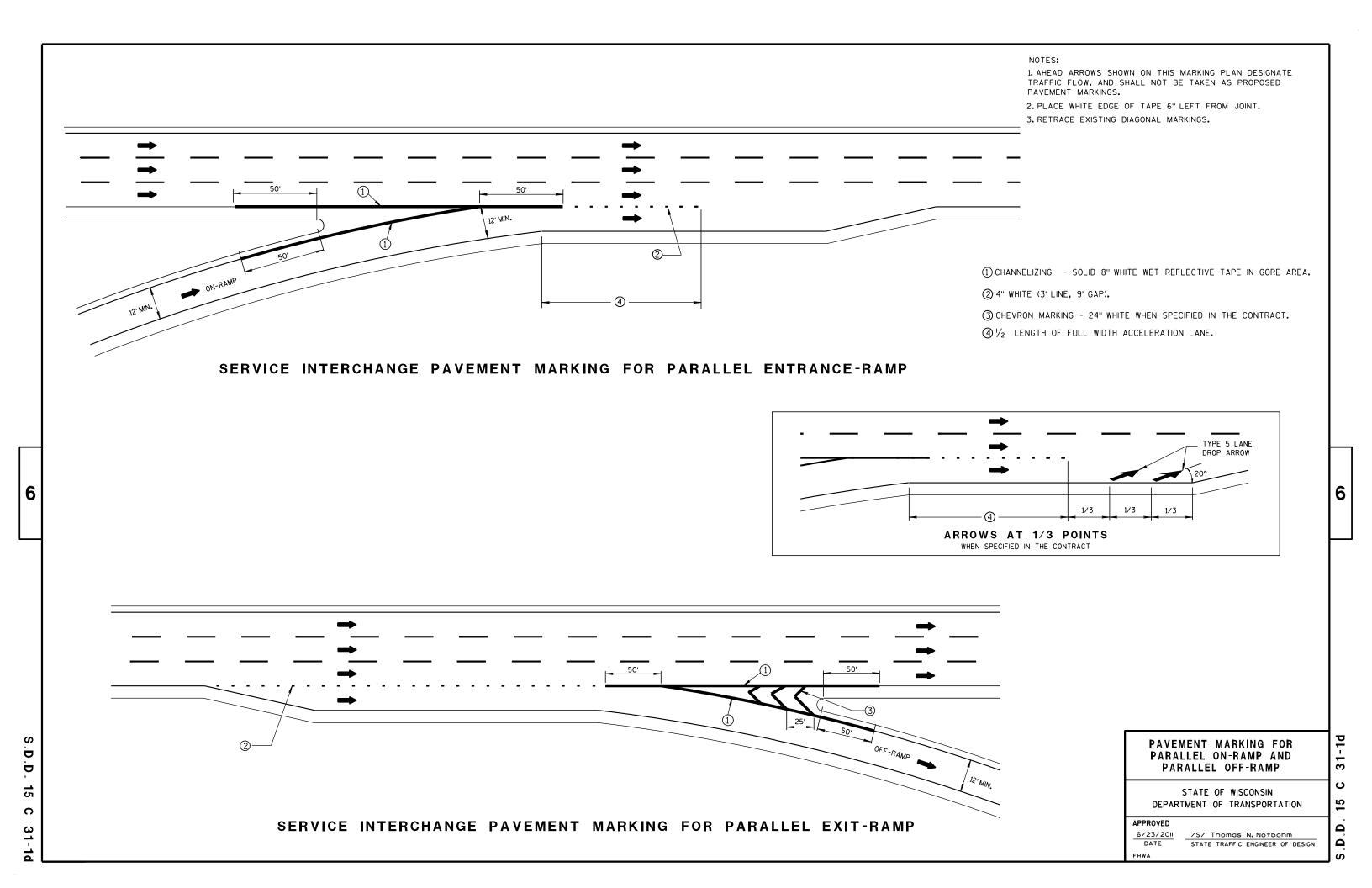
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

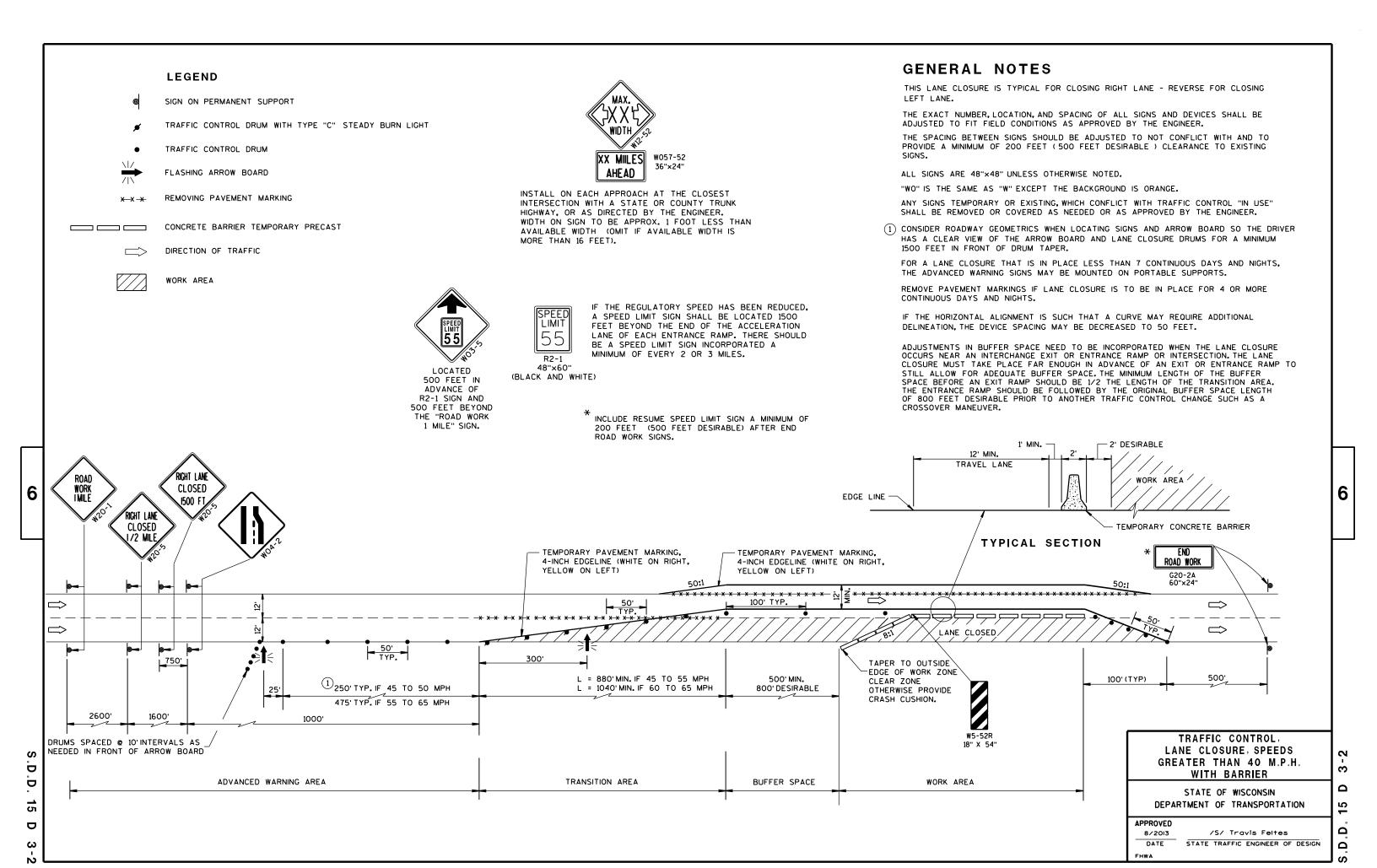
PAVEMENT MARKING (RAMPS AND GORES)

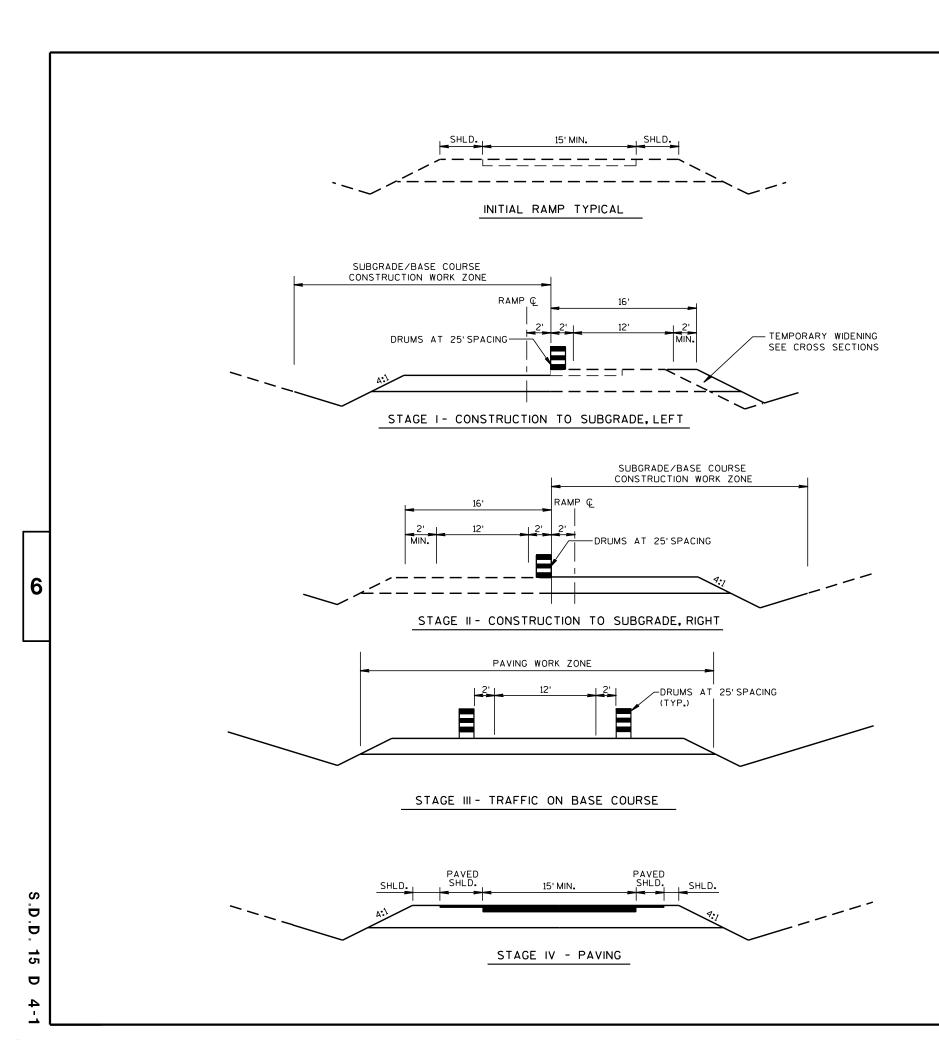


3.D.D. 15 C 31-1b

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION







GENERAL NOTES:

WORK SHALL BE SCHEDULED FOR ALL STAGES TO MINIMIZE INCONVENIENCE TO THE TRAFFIC USING THE RAMP WHILE IT IS ONLY BASE COURSE.

IN STAGE III, A MINIMUM 12' LANE WIDTH SHALL BE DELINEATED WITH DRUMS ALONG BOTH EDGES AT ALL TIMES UNTIL PAVED AND PAVEMENT MARKINGS ARE PLACED.

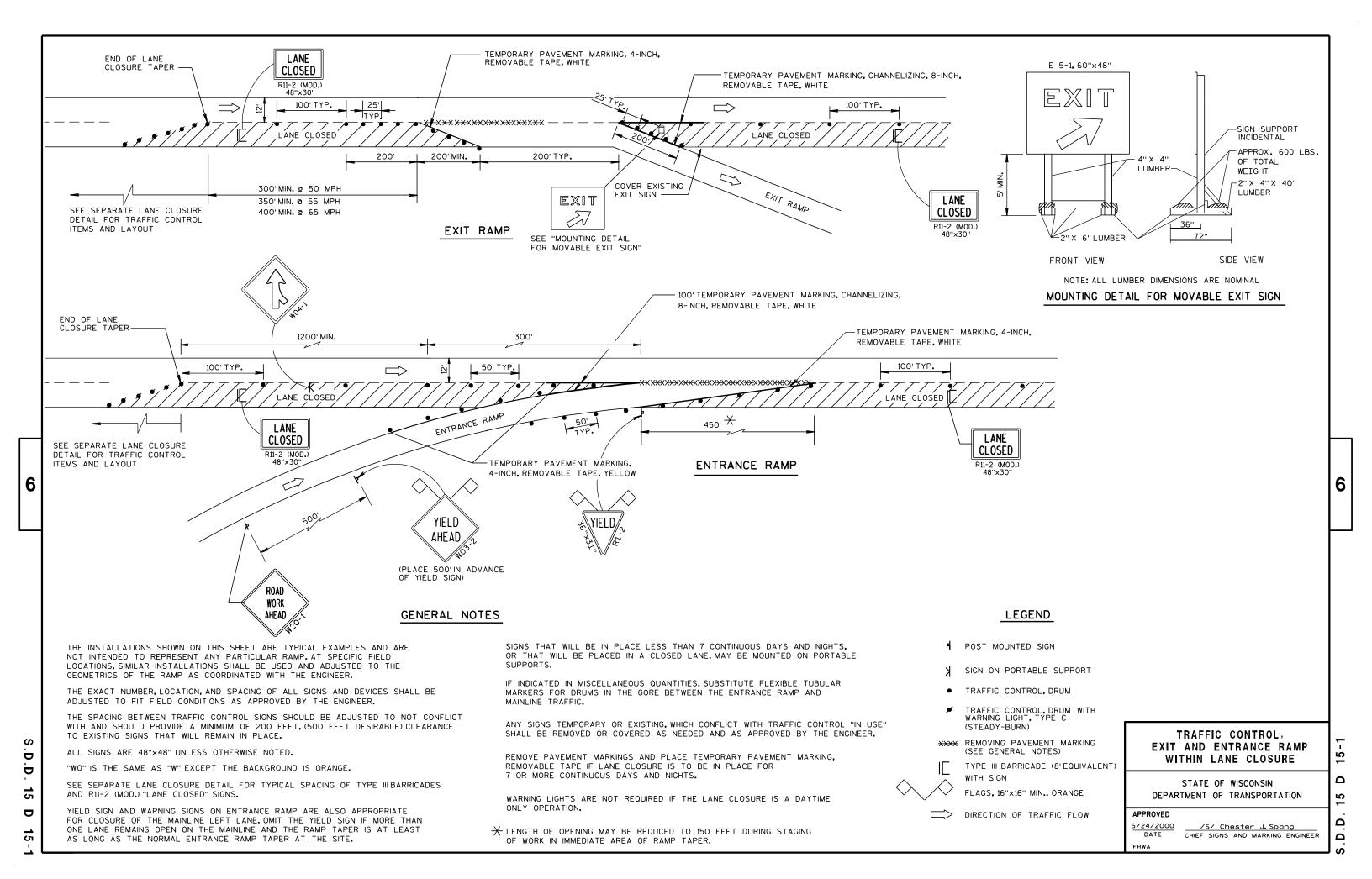
TRAFFIC CONTROL, RAMP CONSTRUCTION STAGING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Chester J. Spang
DIRECTOR, OFFICE OF TRAFFIC DATE

Ω Ω Δ



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.

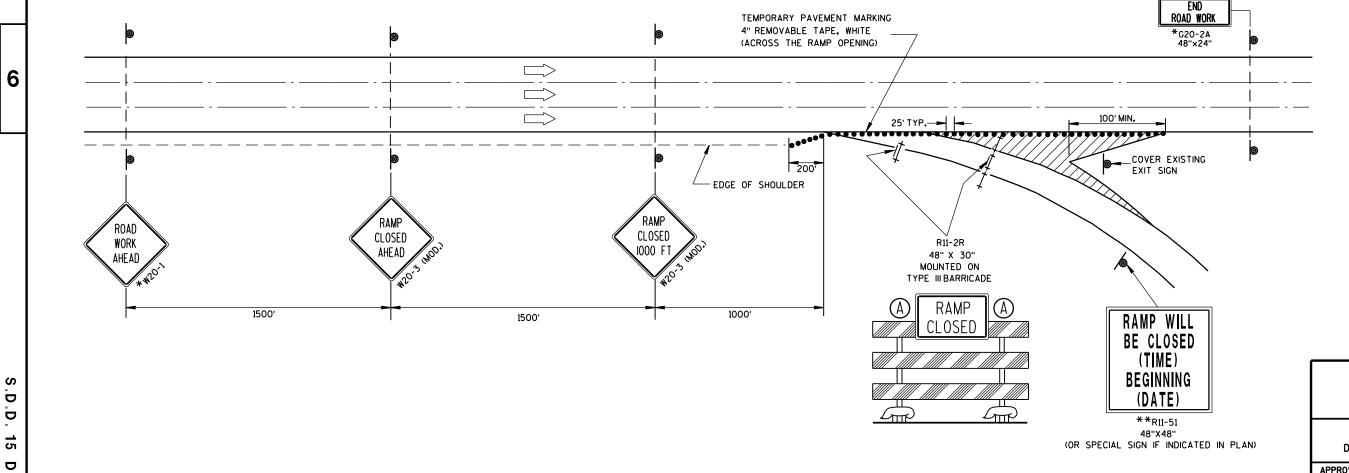
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

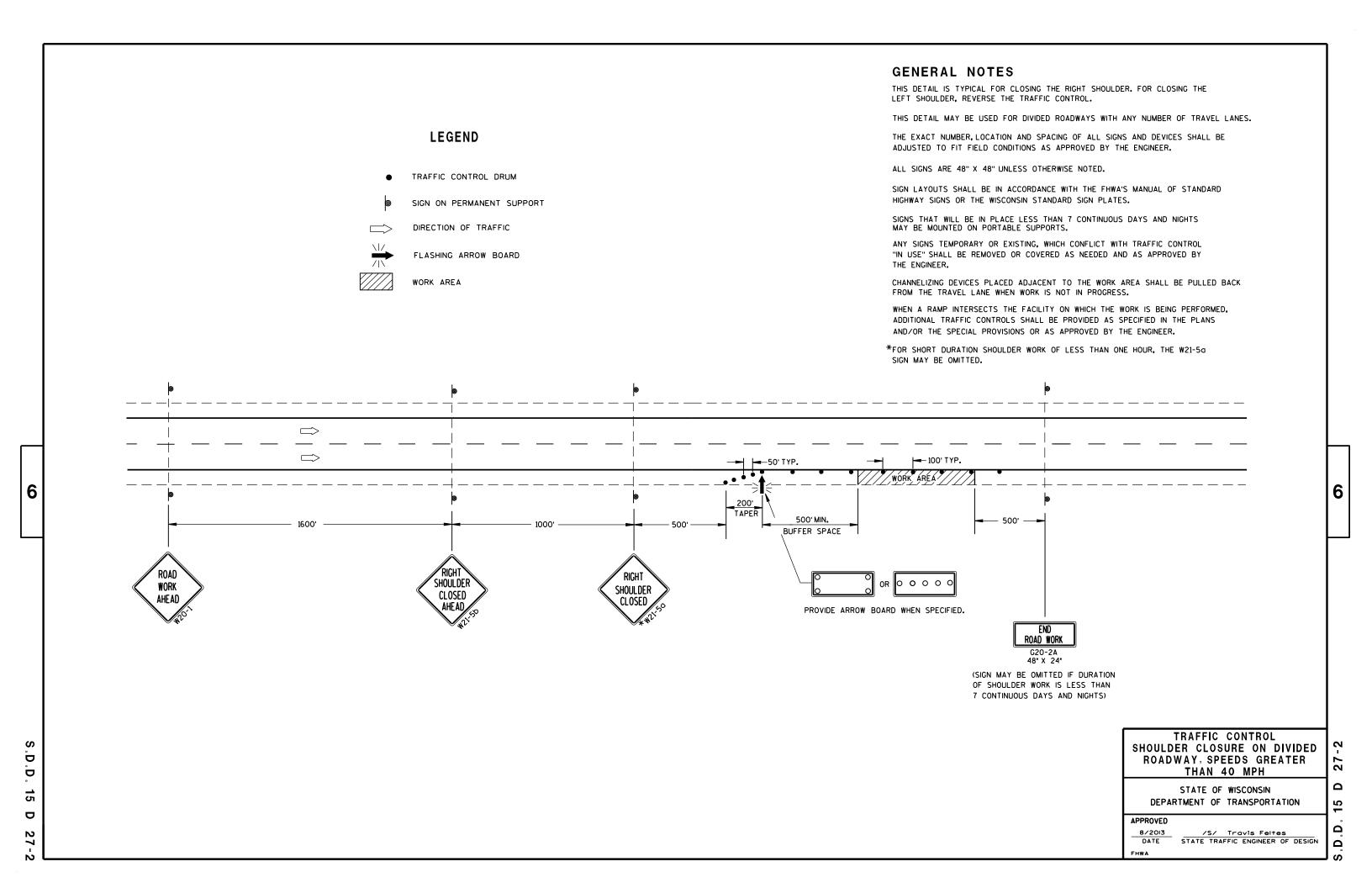
APPROVED 8/2013

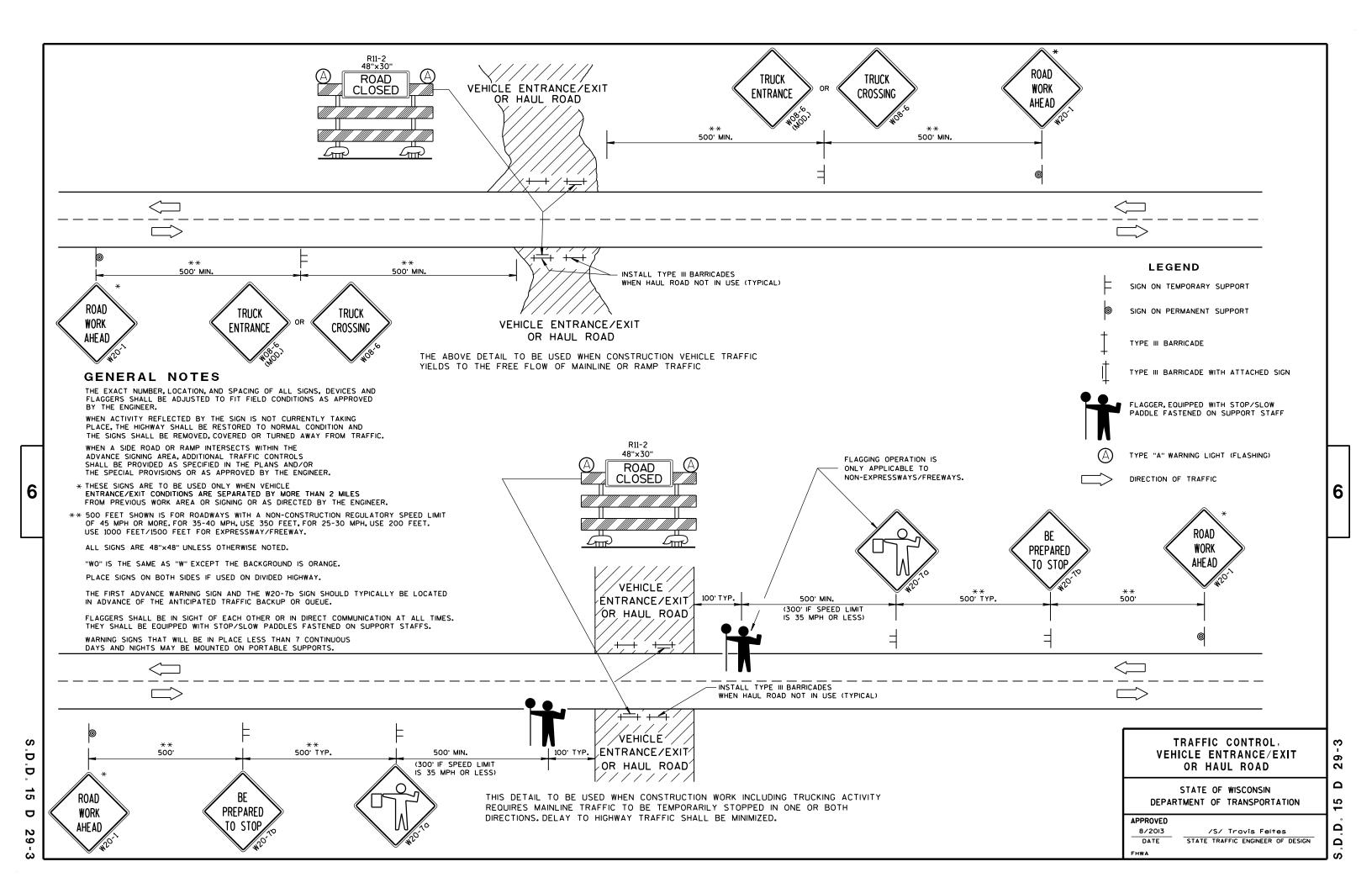
B/2013

DATE

STATE TRAFFIC ENGINEER OF DESIGN
FHWA

D.D. 15 D 16

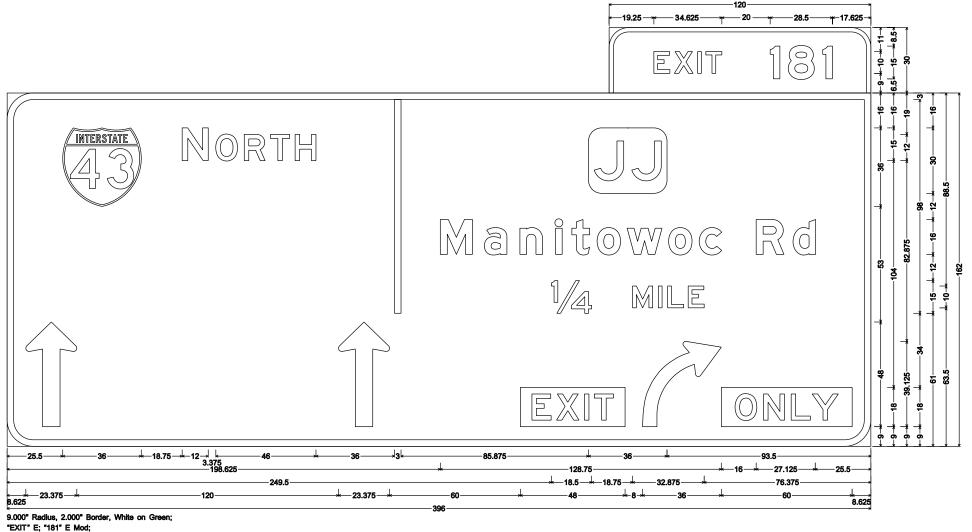




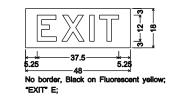
- 1. All Signs are Type I Type SH Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

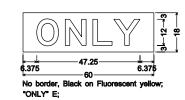
Background - Green Message - White

3. Message Series - E Modified except all CAPS words Series E



12.000" Radius, 3.000" Border, White on Green;
"NORTH" E; Square County JJ M1-55-2; "Manitowoo" E Mod; "Rd" E Mod; "%" E; "MILE" E; Arrow Custom - 48.000" 90°; Arrow Custom - 48.000" 90°; Rectangle R3-6L left double headed arrow ir=14.5, s=3.5; Rectangle Fluorescent yellow;





PROJECT NO: 1227-13-60 HWY:IH-43 COUNTY: BROWN

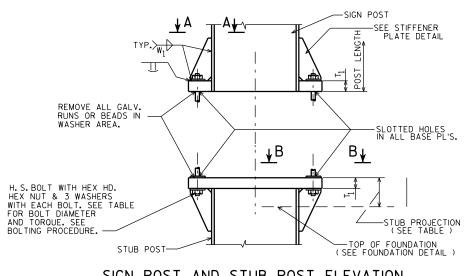
SIGN DETAILS PLOT DATE: 25-FEB-2014 15:28 PLOT BY : dotj1f

PLOT NAME :

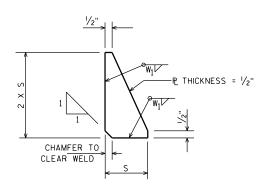
PLOT SCALE: 33:1

SHEET NO:

Ε

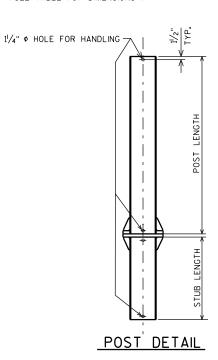


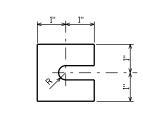
SIGN POST AND STUB POST ELEVATION



STIFFENER PLATE DETAIL

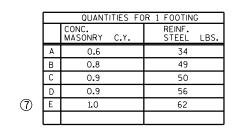
(SEE TABLE FOR DIMENSIONS)



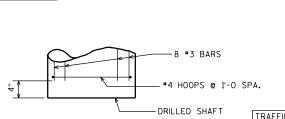


FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST, SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T. M.- B36.

SHIM DETAIL



| | | TYPE | #3 | #4 |
|---|--------|------|------------------|--|
| | | Α | 8 @ 4'-5 | 5 @ 6'-3 |
| | ١.٠ | В | 8 @ 6'-5 | 7 |
| | REINF. | С | 8 @ 6'-11 | 7 @ 6'-3 |
| | ~ | D | 8 @ 7 '-5 | 8 @ 6'-3 |
| 7 | | Ē | 8 @ 7'-11 | 9 @ 6'-3 |



-STUB POST

FTG. T + 1/16 |

(5)

SECTION A-A

SHAFT PLACEMENT

FTG. T + 1/16

-1'-0 MIN. LAP

8 #3 BARS

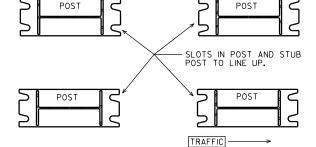
SECTION

FINISHED GRADE

LENGTH (SEE

#4 HOOPS @ 1'-0 SPA.

TRAFFIC FOUNDATION DETAIL



POST ON THE LEFT POST ON THE RIGHT POST SLOT ORIENTATION

| | | | | BA | SE CON | INECT | ION D | ΑΤΑ | TABI | LE | | | | | FOUNDATION | I DATA | | 2 | |
|------------|------|------------------------|-----------------------|-------|---------|-------|--------------------|-------|----------------|----------------|----------------|----------|-------|----------------|--------------------|-------------------|-----------------|--------|---|
| | TYPE | DIMENSION POST SIZE | BOLT SIZE & TORQUE | А | В | С | D | Ε | т ₁ | T ₄ | w ₁ | R | S | STUB LENGTH | STUB PROJECTION | SHAFT DIAMETER | SHAFT LENGTH | К | |
| 4 | Α | W10"X12.0 #/FT. | ¾" ¢ @ 75#-FT. | 51/4" | 1'-03/8 | ½″' | 31/2" | 1∕8′ | 1" | 3/16" | 5/16 " | 13/32 " | 21/8" | 3'-6 | 3" | 2'-0 φ | 5'-0 | 76.0# | 4 |
| <u>(4)</u> | В | W12"X16.0 #/FT. | ½" Φ @ 85#-FT. | 51/2" | 1'-41/4 | 1" | 31/2" | 1'' | 11/4" | 1/4" | 5/16" | 15/32 '' | 3'' | 5'-6 | 3" | 2'-0 φ | 7'-0 | 146.5# | 4 |
| | С | W12"X19.0 #/FT. | ½" ¢ @ 85#-FT. | 51/2" | 1'-41/4 | 1'' | 3 ¹ /2" | | | 5/16" | | | 3'' | 6'-0 | 3" | 2'-0 ø | 7'-6 | 182.1# | _ |
| | D | W12"X22.0 #/FT. | ½" ¢ @ 85#-FT. | 51/2" | 1'-41/4 | 1'' | 31/2" | 1'' | 11/2" | 3/8" | 5/16" | 15/32 " | 3'' | 6'-6 | 3" | 2'-0 ø | 8'-0 | 210.5# | |
| 3 | E | W12"X26.0 #/FT. | 1" ¢ @ 90#-FT. | 7" | 1'-41/4 | 11/4" | 4" | 11/2" | 11/2" | 3/8" | 5/16 " | 17/32 " | 3" | 7 '-0 | 3" | 2'-0 ø | 8'-6 | 293.0# | 3 |
| | | | | | | | | | | | | | | | | | | | |

1 6 1

PLOT BY: mscsja

STRUCTURAL CARBON STEEL PAY WTS. (1POST) = K+ (POST LENGTH X POST WT.) "K" INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

PROJECT NO: HWY: COUNTY:

DESIGN DATA

WIND PRESSURE = 75 M.P.H. WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0 ICE LOAD = 3 P.S.F.

GROUP LOADS 1. DEAD PERCENT OF ALLOWABLE STRESS

2. DEAD & WIND 3. DEAD, ICE & 1/2 WIND **△**25 P.S.F. MIN. 140 ALLOWABLE SOIL PRESSURE = 11/2T / SO.FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND

TO THE SUPPORTING MEMBERS.

ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50.

THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.

H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.

BOLTING PROCEDURE - BASE CONNECTION

- 1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
- 2. SHIM AS REQ'D. TO PLUMB POST.
- 3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
- 4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
- 5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

-PLATE THICKNESS = T

∠STUB POST

SECTION B-B

74

985

TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.

> WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer

PLATE NO. __A3-1.14 DATE 2/06/14

(1) 1-21-14 LUBRICATION OF BASE BOLTS 4-26-11 REMOVE NON-GALVANIZED

8 10-30-96 NOT GALVANIZED/GALVANIZED (7) 10-30-92 QUANT., A588 EXCEPT., ADD SLOT VIEW

6) 8-24-87 BASE CONN. WELD

10-13-81 BASE CONN. WELD & FUSE & WASHERS

10-19-79 POST A & B, A572 GR. 50, & K

11-28-78 "K" 3.4-23-79 TYPE "E" 5-4-78 T_1 , T_2 & W_1

DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

TYPE A, B, C, D, & E

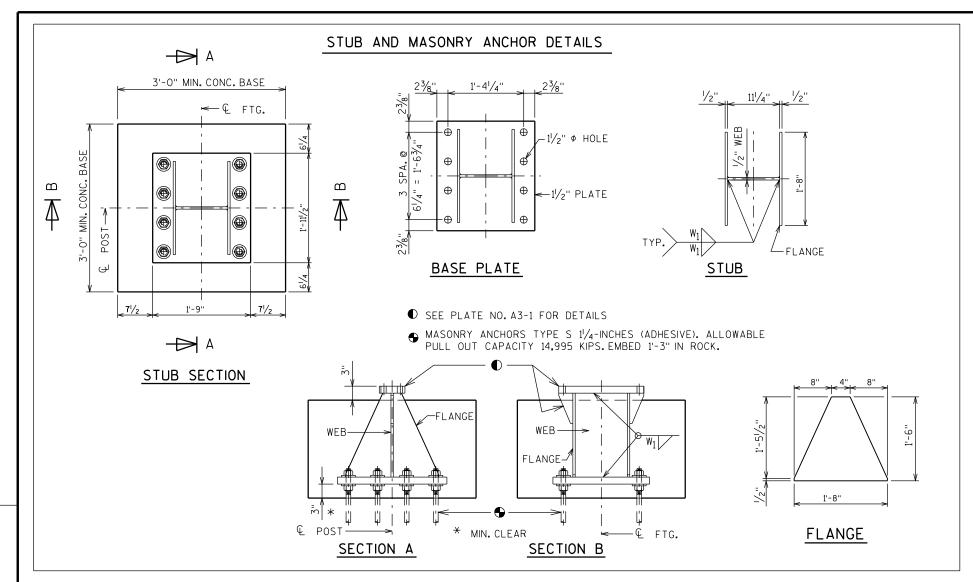
DRAWN BY JPH 2011 FTG. & SIGN SUPPORT SHEET DETAILS

GROUND MOUNT BREAK-AWAY SIGNS

SHEET NO:

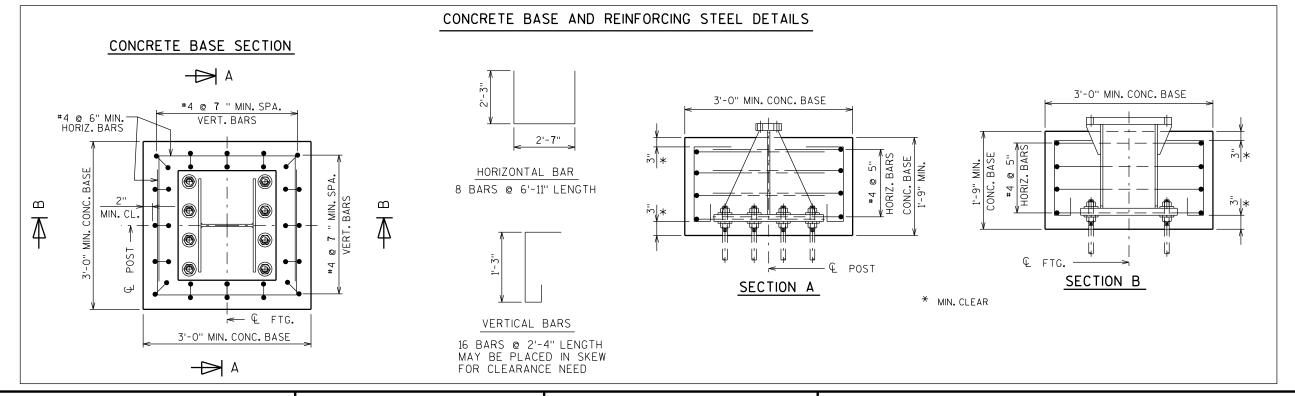
PLOT NAME :

PLOT SCALE: 85617.058824:1.000000



GENERAL NOTES

- 1. Quantities per Base:
 - REINFORCING BAR STEEL = 62 LBS
 - CONCRETE = 0.6 C.Y.
 - STEEL WEIGHT = 335 LBS
- 2. All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
- 3. If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.



COUNTY:

ALTERNATE BREAK-AWAY
BASE ON ROCK
A3-1M

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 2/06/2014 PLATE NO. A3-1M.1

SHEET NO:

0-MAR-2014 15:16 PLOT BY: mscj9h

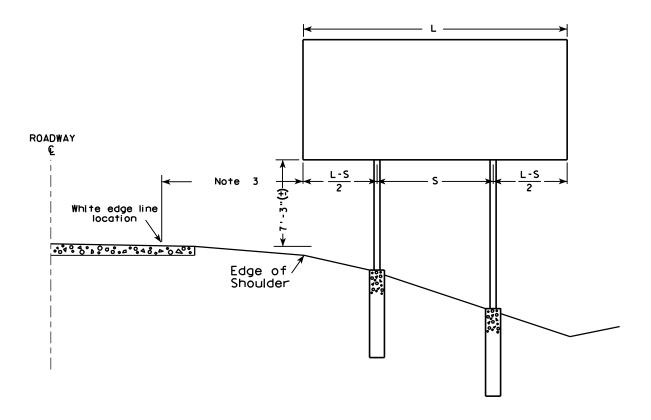
PLOT NAME :

PLOT DATE: 10-MAR-2014 15:16

PLOT SCALE : 1.556674:1.000000

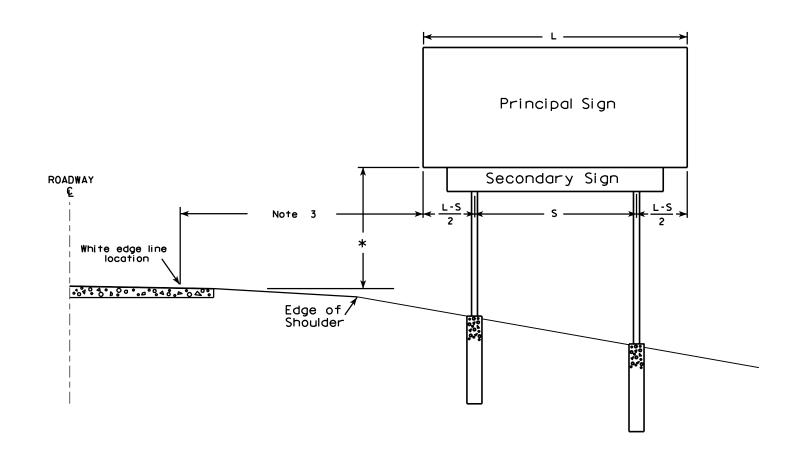
HWY:

PROJECT NO:



GENERAL NOTES

- 1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
- 2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
- 3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
- 4. The (+) tolerance shown on this sheet is 3 in.
- 5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
- 6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
- 7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.



* Clearance is $8'-3''(\pm)$ when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be $5'-3''(\pm)$.

> TYPICAL INSTALLATION OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED for State Traffic Engineer PLATE NO. <u>A4-1.9</u>

DATE 4/02/08

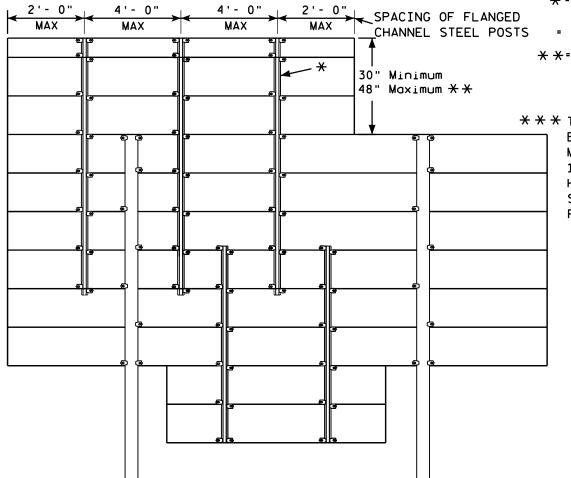
SHEET NO:

PROJECT NO:

PLOT DATE: 02-APR-2008 15:49

PLOT BY : ditjph





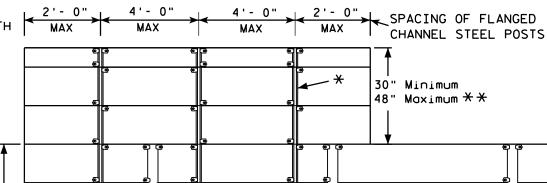
*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH

CHANNEL STEEL POSTS = 60,000 PSI (GRADE 60) GALVANIZED

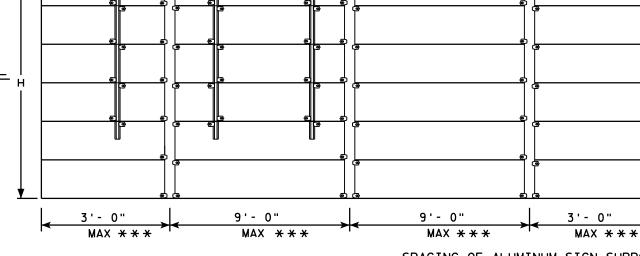
SIGN BRIDGE MOUNTED SIGN

* *= FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

* * THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.



FLANGE CHANNEL DETAIL 1/₄ → NOT TO SCALE



SPACING OF ALUMINUM SIGN SUPPORTS 5" X 3.5" X 3.7 LBS./ft.

GENERAL NOTES

- 1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
- 2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.

2'- 0"

- 4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
- 5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
- 6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 12/05/13

PLATE NO. A4-6.12

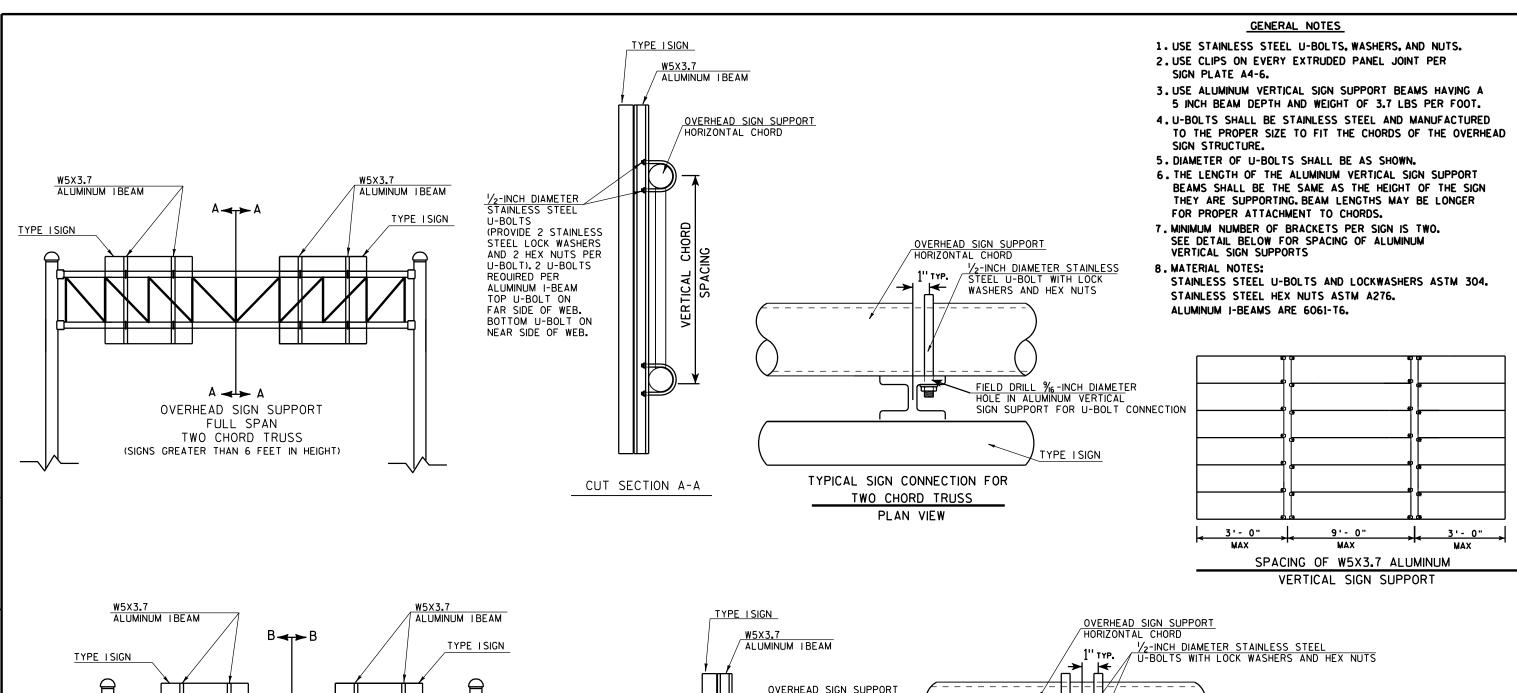
SHEET NO:

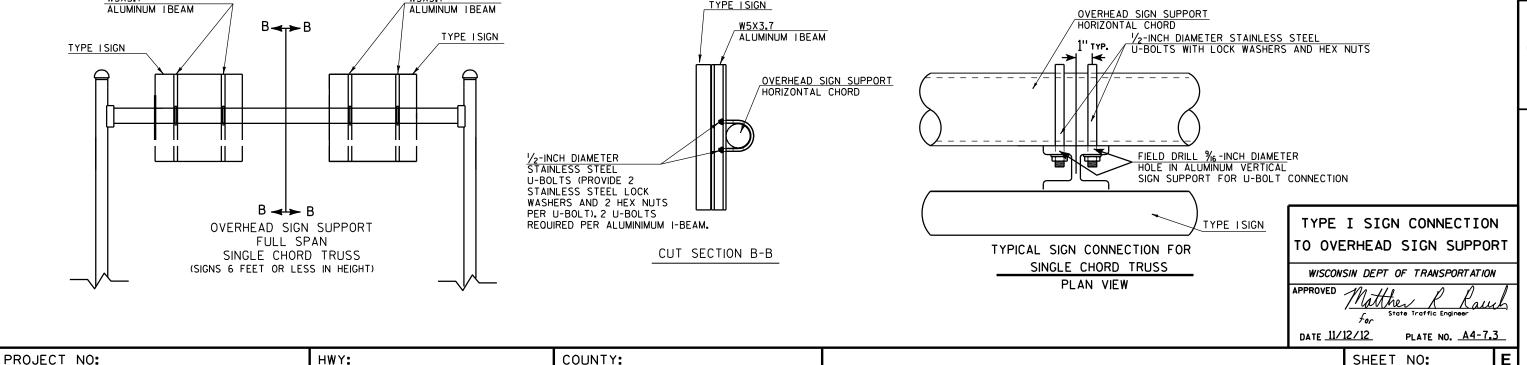
PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A46.DGN

PLOT DATE: 05-DEC-2013 12:47

PLOT BY: mscs.ja





FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A47.DGN

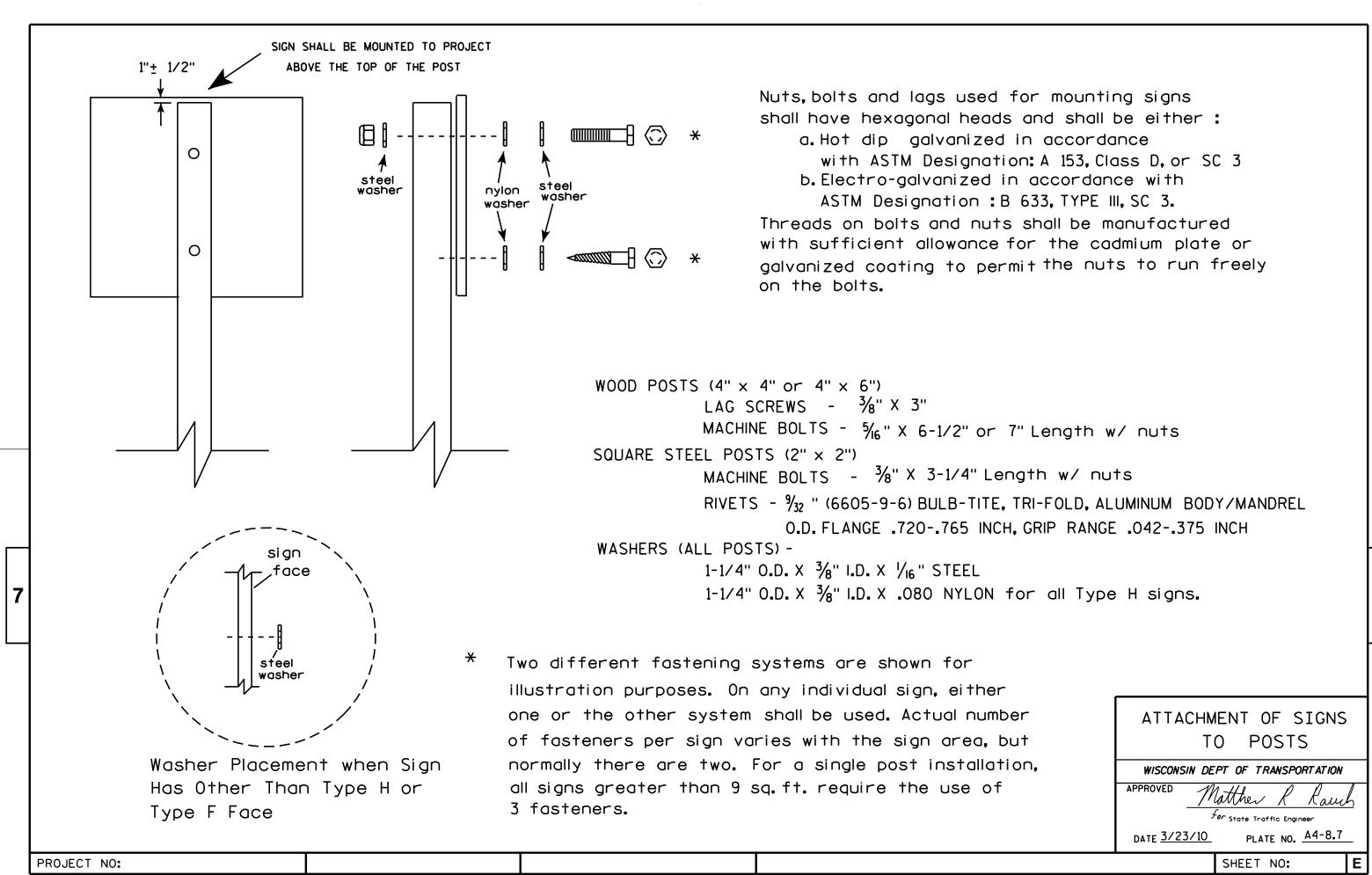
PLOT DATE: 12-NOV-2012 13:52

PLOT NAME :

PLOT BY : msc i9h

PLOT SCALE: 39.695175:1.000000

WISDOT/CADDS SHEET 42

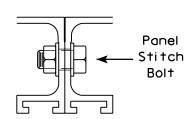


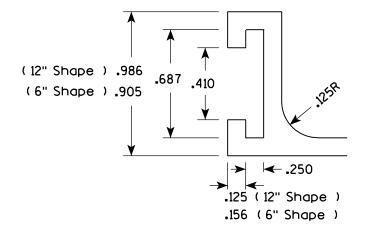
STITCH BOLT, WASHER & NUT

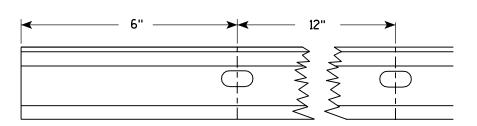
The hardware includes:

3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy 3/8 " - Stainless steel stop nut

3/8" X .064 Flat Washers, Alclad 2024-T4 alloy







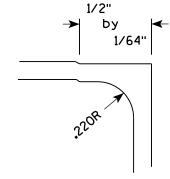
.078

← 2" →

6" Extrusion Minimum Weight 1.1 lb./ft.

←.125

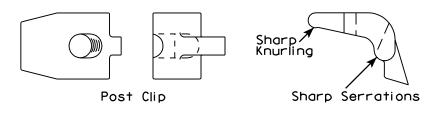
Punch $7/16" \times 7/8"$ oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

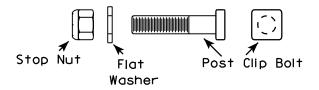


PLOT BY : DOTDZK

POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

- 1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
- 2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
- 3. Post Clips shall be used to attach the sign panel to the sign support.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Les to J Spany

for State Traffic Engineer

DATE 11/18/99

PLATE NO. 45-2.9

SHEET NO:

PROJECT NO:

PLOT DATE: 28-SEP-2005 07:20

12" Extrusion

Minimum Weight

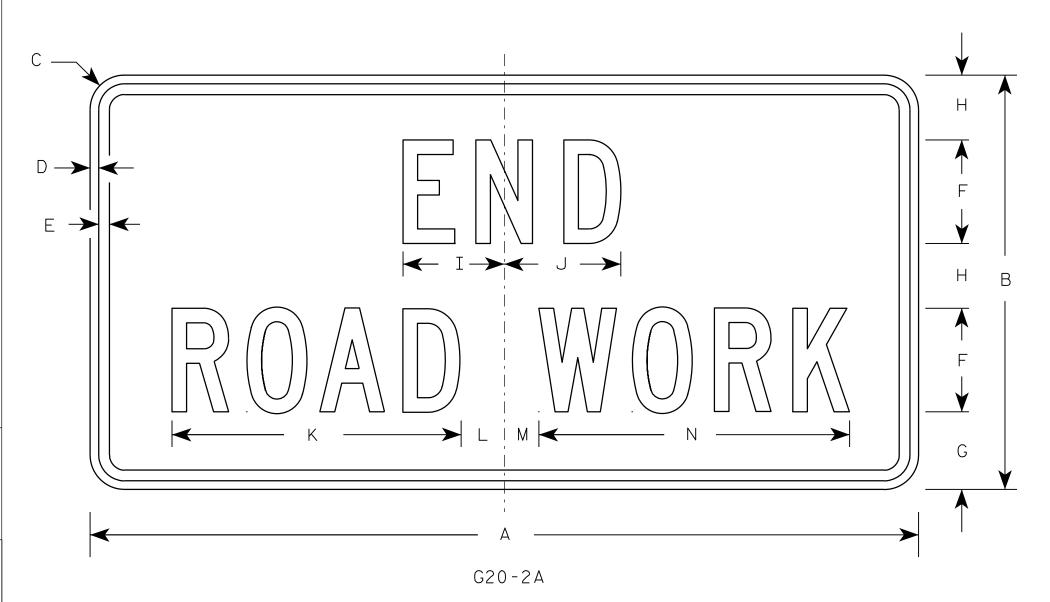
2.45 lb./ft.

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

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

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

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

for State Traffic Engineer

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

SHEET NO:

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

HWY:

PROJECT NO:

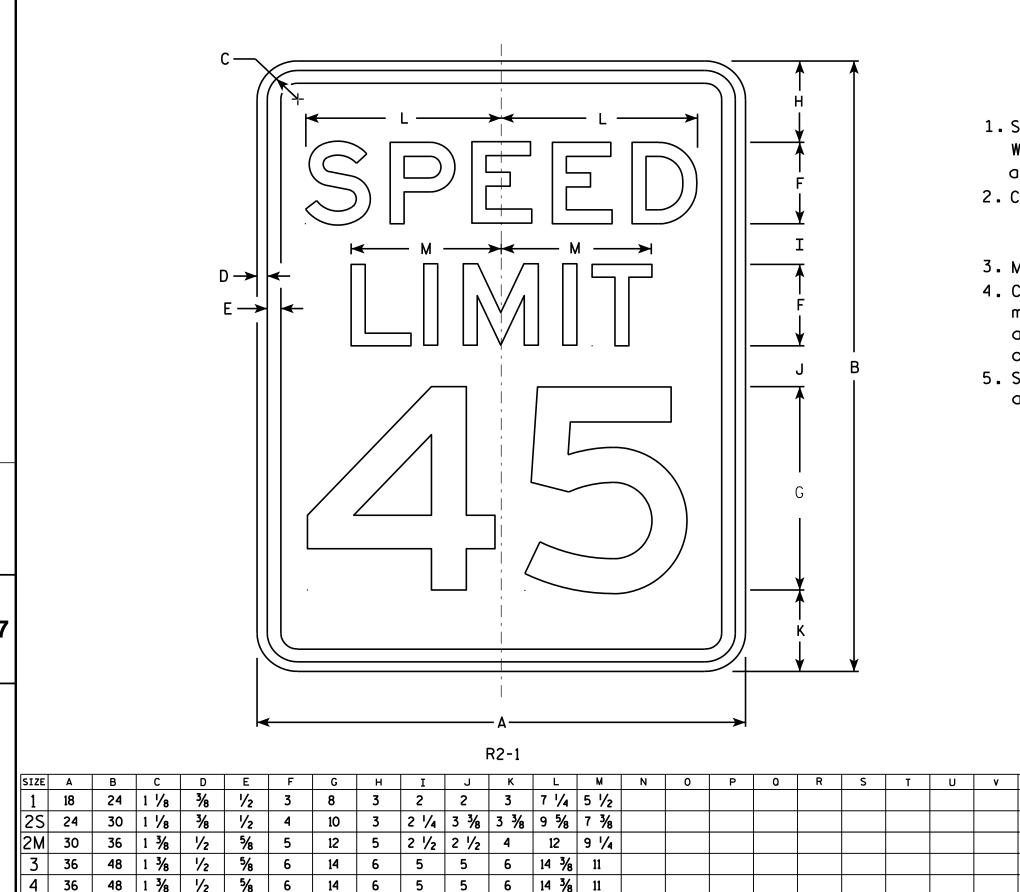
PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42



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

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

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

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

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

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

SHEET NO:

2 1/4

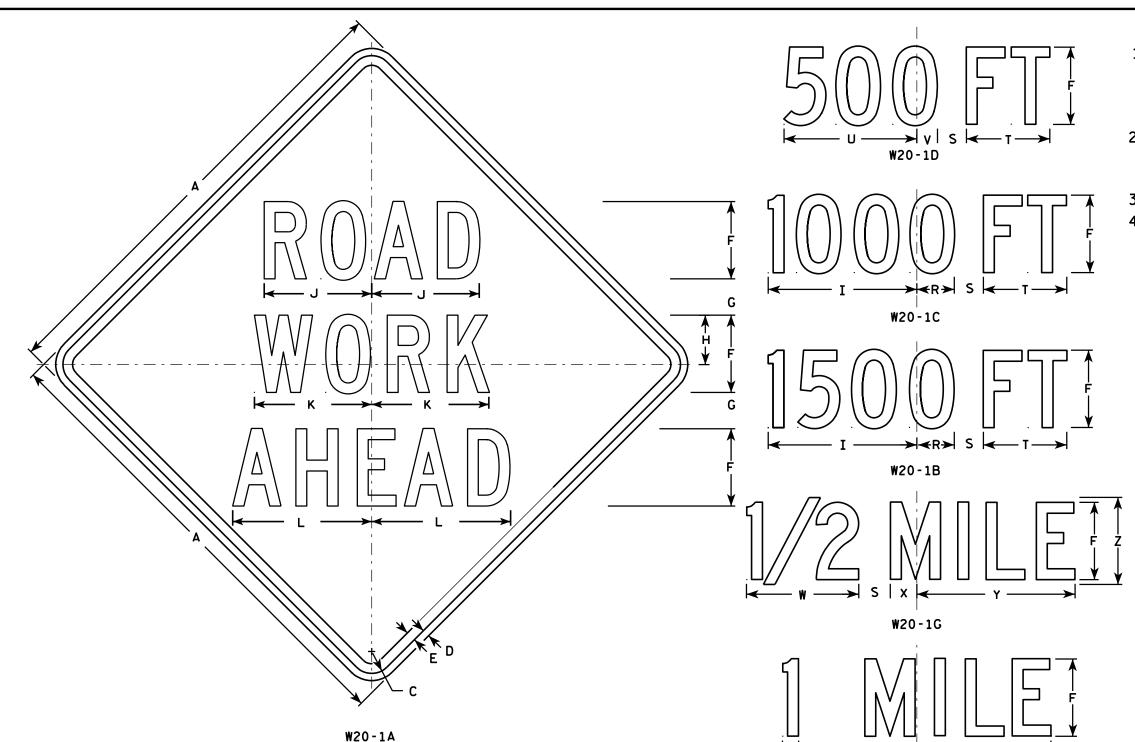
60

5

48

PROJECT NO:

PLOT NAME :



7 5/8 8 7/8 1 1/8 4 1/2 3 1/2

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 |

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 3/8 | 5 3/8

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 |

| 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 |

NOTES

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

Background - Orange Message - Black

3. Message Series - C

Area sq. ft.

16.0

16.0

16.0

1 3/4 10 3/4

16 3/8 9

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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Laure

for State Traffic Engineer

DATE 3/18/11 PLATE NO. W2

ATE 3/18/11 PLATE NO. W20-1.9

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN

1 3/8

2 1/4

2 1/4

1/2

3/4

3/4

2 \\ 8 | 3 \\ 4 | 10 \\ 8 |

SIZE A

3

4

5

36

48

48

48

48

48

PROJECT NO:

PLOT DATE: 18-MAR-2011 09:56

PLOT BY : mscj9h

W20-1F

1 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

13 3/4 2 1/8 | 11 1/8 | 2 3/4 | 16 3/8 |

8 \% | 13 \% | 2 \% | 11 \% | 2 \% | 16 \% | 9

| 13 3/4 | 2 1/8 | 11 1/8 | 2 3/4 |

5 %

8 %

2 1/2 1 1/8

3 1/8

3 %

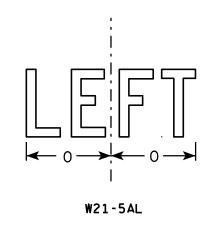
3 %

3 %

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

Background - Orange Message - Black

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



| SHOULDER - |
|------------|
| |
| E D |

| W21 | - 5 ^ |
|-------|-------|
| W / I | - ¬ Δ |

| SIZE | Α | В | С | D | E | F | G | Н | I | 7 | K | L | М | N | 0 | Р | 0 | R | S | Т | U | ٧ | W | X | Y | Z | Area sq. ft. |
|------|------|-----|-------|-----|-----|---|-------|-------|-------|-----|--------|--------|--------|--------|-------|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1 | 36 | | 1 % | 5/8 | 3/4 | 5 | 3 3/8 | 3 ½ | 4 | 7 % | 7 3/4 | 14 1/4 | 10 1/4 | 10 1/8 | 6 1/4 | | | | | | | | | | | | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 7 | 4 1/2 | 4 3/4 | 5 1/4 | 11 | 10 1/8 | 20 | 14 3/8 | 14 1/4 | 8 3/4 | | | | | | | | | | | | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 7 | 4 1/2 | 4 3/4 | 5 1/4 | 11 | 10 1/8 | 20 | 14 3/8 | 14 1/4 | 8 3/4 | | | | | | | | | | | | 16.0 |
| 3 | 48 | | 2 1/4 | 3/4 | 1 | 7 | 4 1/2 | 4 3/4 | 5 1/4 | 11 | 10 1/8 | 20 | 14 3/8 | 14 1/4 | 8 3/4 | | | | | | | | | | | | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 7 | 4 1/2 | 4 3/4 | 5 1/4 | 11 | 10 1/8 | 20 | 14 3/8 | 14 1/4 | 8 3/4 | | | | | | | | | | | | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 7 | 4 1/2 | 4 3/4 | 5 1/4 | 11 | 10 % | 20 | 14 3/8 | 14 1/4 | 8 3/4 | | | | | | | | | | | | 16.0 |
| PRO. | JECT | NO: | | | | | Н\ | VY: | | | | | COL | NTY: | | | | | | | | | | | | | |

STANDARD SIGN W21-5A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

DATE 3/21/11

PLATE NO. W21-5A.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W215A.DGN

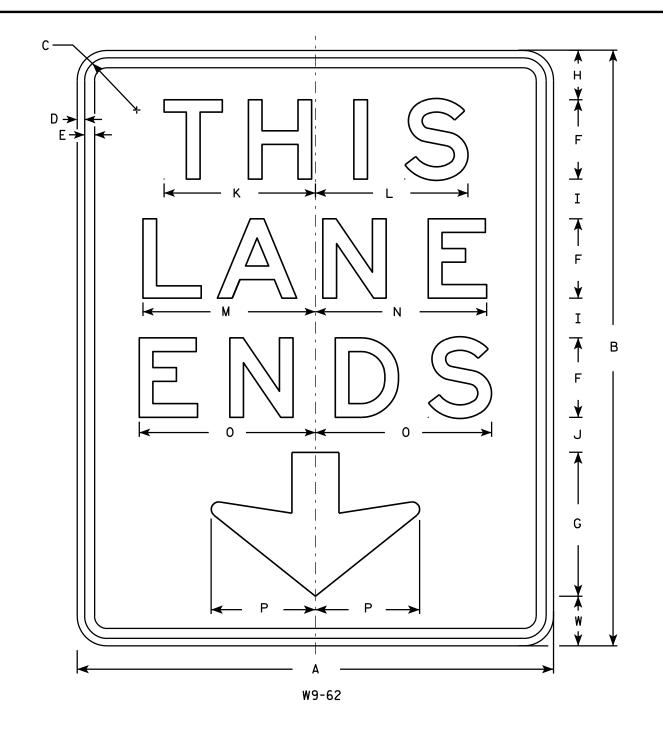
PLOT DATE: 21-MAR-2011 09:02

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 9.931739:1.000000

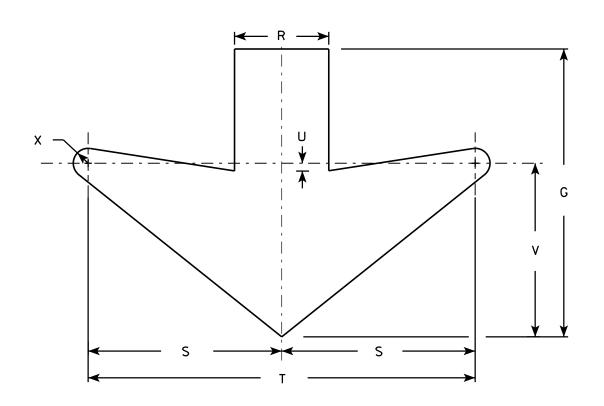
WISDOT/CADDS SHEET 42



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

Background - Yellow Message - Black

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



ARROW DETAIL

| SIZE | Α | В | С | D | E | F | G | Н | I | J | K | L | M | N | 0 | Р | 0 | R | S | T | U | ٧ | W | Х | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-------|----|--------|---|---|-------|--------|--------|--------|--------|--------|--------|---|-------|-------|--------|-----|-------|---|-----|---|---|-----------------|
| 1 | 48 | 60 | 2 1/4 | 3/4 | 1 | 8 | 14 1/2 | 5 | 4 | 3 1/2 | 15 1/4 | 15 3/8 | 17 3/8 | 17 1/4 | 17 3/4 | 10 1/2 | | 4 3/4 | 9 3/4 | 19 1/2 | 3∕4 | 8 3/4 | 5 | 3/4 | | | 20.0 |
| 2S | 48 | 60 | 2 1/4 | 3∕4 | 1 | 8 | 14 1/2 | 5 | 4 | 3 1/2 | 15 1/4 | 15 3/8 | 17 3/8 | 17 1/4 | 17 3/4 | 10 1/2 | | 4 3/4 | 9 3/4 | 19 1/2 | 3/4 | 8 3/4 | 5 | 3/4 | | | 20.0 |
| 2M | 48 | 60 | 2 1/4 | 3∕4 | 1 | 8 | 14 1/2 | 5 | 4 | 3 1/2 | 15 1/4 | 15 3/8 | 17 3/8 | 17 1/4 | 17 3/4 | 10 1/2 | | 4 3/4 | 9 3/4 | 19 1/2 | 3/4 | 8 3/4 | 5 | 3/4 | | | 20.0 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 72 | 90 | 6 | 1 | 1 1/2 | 12 | 22 | 8 | 6 | 5 | 23 | 23 | 26 1/8 | 26 1/8 | 26 % | 16 | | 6 1/2 | 15 | 30 | 2 | 15 | 7 | 1 | | | 45.0 |
| 5 | 72 | 90 | 6 | 1 | 1 1/2 | 12 | 22 | 8 | 6 | 5 | 23 | 23 | 26 1/8 | 26 1/8 | 26 % | 16 | | 6 1/2 | 15 | 30 | 2 | 15 | 7 | 1 | | | 45.0 |

STANDARD SIGN W9-62

WISCONSIN DEPT OF TRANSPORTATION

Matther R Rauch

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W9-62.9

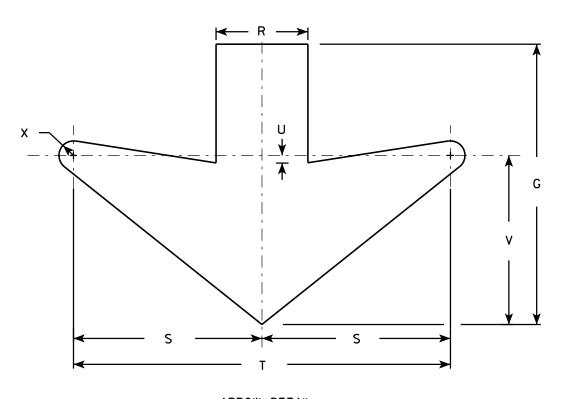
SHEET NO:

PROJECT NO:

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

Background -Yellow Message - Black non-reflective

- 3. Message Series See note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series E, Line 3 is Series D.
- 6. Substitute appropriate numerals and optically adjust spacing to give proper balance.



ARROW DETAIL

| SIZE | Α | В | С | D | Е | F | G | Н | I | J | К | L | | М | N | 0 | Р | 0 | R | S | Т | U | v | ₩ | X | Y | Z | Area sq. ft. |
|------|----|----|-------|-----|-------|----|--------|---|---|-------|--------|--------|------|-------|-------|--------|--------|---|-------|-------|--------|-----|-------|---|-----|---|---|-----------------|
| 1 | 48 | 60 | 2 1/4 | 3/4 | 1 | 8 | 14 1/2 | 5 | 4 | 3 1/2 | 17 3/8 | 17 1/2 | 17 | 3/4 | 3 3/4 | 20 1/4 | 10 1/2 | | 4 3/4 | 9 3/4 | 19 1/2 | 3/4 | 8 3/4 | 5 | 3/4 | | | 20.0 |
| 25 | 48 | 60 | 2 1/4 | 3/4 | 1 | 8 | 14 1/2 | 5 | 4 | 3 1/2 | 17 3/8 | 17 1/2 | 4 17 | 3/4 | 3 3/4 | 20 1/4 | 10 1/2 | | 4 3/4 | 9 3/4 | 19 1/2 | 3/4 | 8 3/4 | 5 | 3/4 | | | 20.0 |
| 2M | 48 | 60 | 2 1/4 | ₹4 | 1 | 8 | 14 1/2 | 5 | 4 | 3 1/2 | 17 3/8 | 17 1/2 | 4 17 | 3/4 | 3 3/4 | 20 1/4 | 10 1/2 | | 4 3/4 | 9 3/4 | 19 1/2 | 3/4 | 8 3/4 | 5 | 3/4 | | | 20.0 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 72 | 90 | 6 | 1 | 1 1/2 | 12 | 22 | 8 | 6 | 5 | 26 1/8 | 26 1/ | g 26 | 5 5/8 | 5 % | 30 % | 16 | | 6 1/2 | 15 | 30 | 2 | 15 | 7 | 1 | | | 45.0 |
| 5 | 72 | 90 | 6 | 1 | 1 1/2 | 12 | 22 | 8 | 6 | 5 | 26 1/8 | 26 1/ | g 26 | 5/8 | 5 % | 30 % | 16 | | 6 1/2 | 15 | 30 | 2 | 15 | 7 | 1 | | | 45.0 |

W9-63

STANDARD SIGN W9-63

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

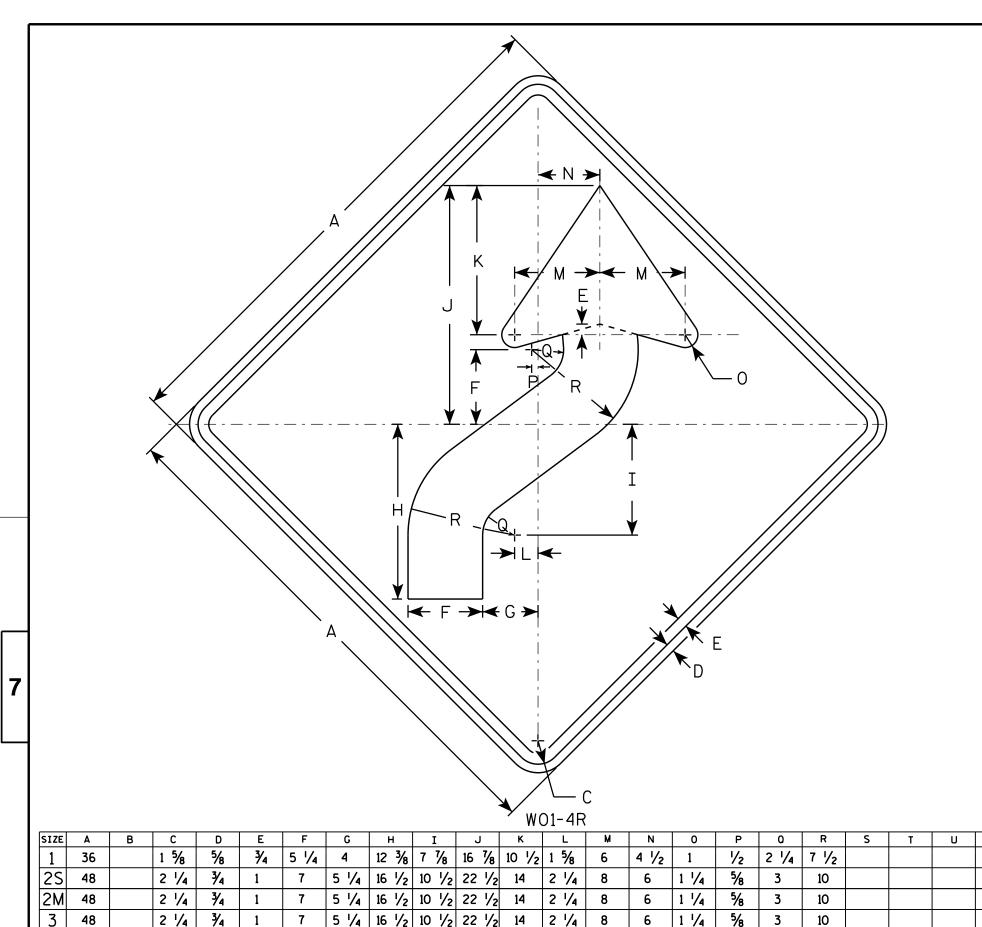
DATE 6/7/10 PLATE NO. W9-63.4

SHEET NO:

PROJECT NO:

* See Note 6

Ι



5 1/4 16 1/2 10 1/2 22 1/2 14

5 1/4 16 1/2 10 1/2 22 1/2 14

HWY:

2 1/4

2 1/4

NOTES

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

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

9.0 16.0 16.0 16.0 16.0 STANDARD SIGN W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE <u>11/18/1</u>3

PLATE NO. WO1-4.1
SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN

48

48

PROJECT NO:

2 1/4 3/4

2 1/4 | 3/4

PLOT DATE : 28-FEB-2014 11:35

10

1 1/4

1 1/4

COUNTY:

5/8

PLOT NAME :

PLOT BY: mscj9h

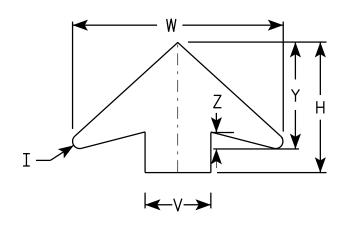
PLOT SCALE: 6.755110:1.000000

WISDOT/CADDS SHEET 42

<u>NOTES</u>

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: * Background - ORANGE* Message - BLACK
- 3. Message Series C for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

| SIZE | Α | В | С | D | Ε | F | G | Н | I | J | K | L | М | N | 0 | Р | 0 | R | S | Т | C | ٧ | W | X | Y | Z | Area sq. ft. |
|------|----|---|-------|-----|-----|--------|--------|--------|-------------------------|----|-------|---|-------|----|-------|-------|-----|-------|-------|-------|----|---|--------|-----|-------|-------|-----------------|
| 1 | 36 | | 1 1/8 | 5/8 | 3/4 | 14 1/2 | 9 1/2 | 11 1/2 | 5/8 | 24 | 2 | 3 | 1 | 12 | 7 1/8 | 1 1/2 | 3/8 | 5 3/4 | 7 1/4 | 7 1/8 | 9 | 6 | 19 1/4 | 3∕8 | 9 3/4 | 1 5/8 | 9.0 |
| 2S | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 3/4 | 17 3/8 | ½ | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3% | 12 | 8 | 25 % | 3∕8 | 13 | 2 | 16.0 |
| 2M | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 ¾ | 17 3/8 | 1 / ₈ | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 % | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 % | 3⁄8 | 13 | 2 | 16.0 |
| 3 | 48 | | 2 1/4 | 3∕4 | 1 | 19 1/4 | 10 ¾ | 17 3/8 | 7 ⁄8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 % | 1/2 | 8 | 9 1/4 | 9 3% | 12 | 8 | 25 % | 3⁄8 | 13 | 2 | 16.0 |
| 4 | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 ¾ | 17 3/8 | 7 ⁄8 | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 % | 1/2 | 8 | 9 1/4 | 9 3% | 12 | 8 | 25 % | 3/8 | 13 | 2 | 16.0 |
| 5 | 48 | | 2 1/4 | 3/4 | 1 | 19 1/4 | 10 ¾ | 17 3/8 | 1 / ₈ | 30 | 2 1/4 | 4 | 1 1/4 | 15 | 10 | 1 5/8 | 1/2 | 8 | 9 1/4 | 9 3/8 | 12 | 8 | 25 % | 3∕8 | 13 | 2 | 16.0 |

STANDARD SIGN W03 - 5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Raul

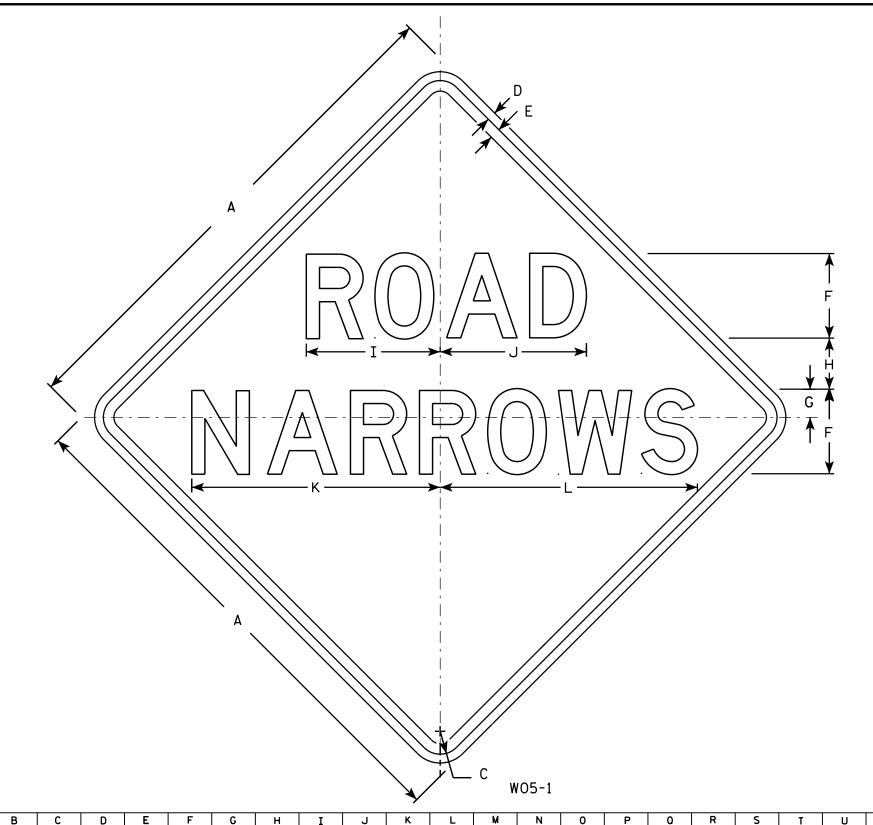
DATE 11/20/13

PLATE NO. W03-5.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN

PROJECT NO:



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

Background - Orange Message - Black

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

SIZE A 1 5/8 3 1/2 9 1/2 10 3/8 17 5/8 18 1/4 3/4 9.0 2S 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 16.0 2M 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 16.0 12 3/4 13 3/4 23 1/2 24 3/8 2 1/4 3/4 48 16.0 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 3 16.0 2 1/4 3/4 12 3/4 13 3/4 23 1/2 24 3/8 48 3 16.0

COUNTY:

STANDARD SIGN WO5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

far State Traffic Engineer

DATE 11/20/13

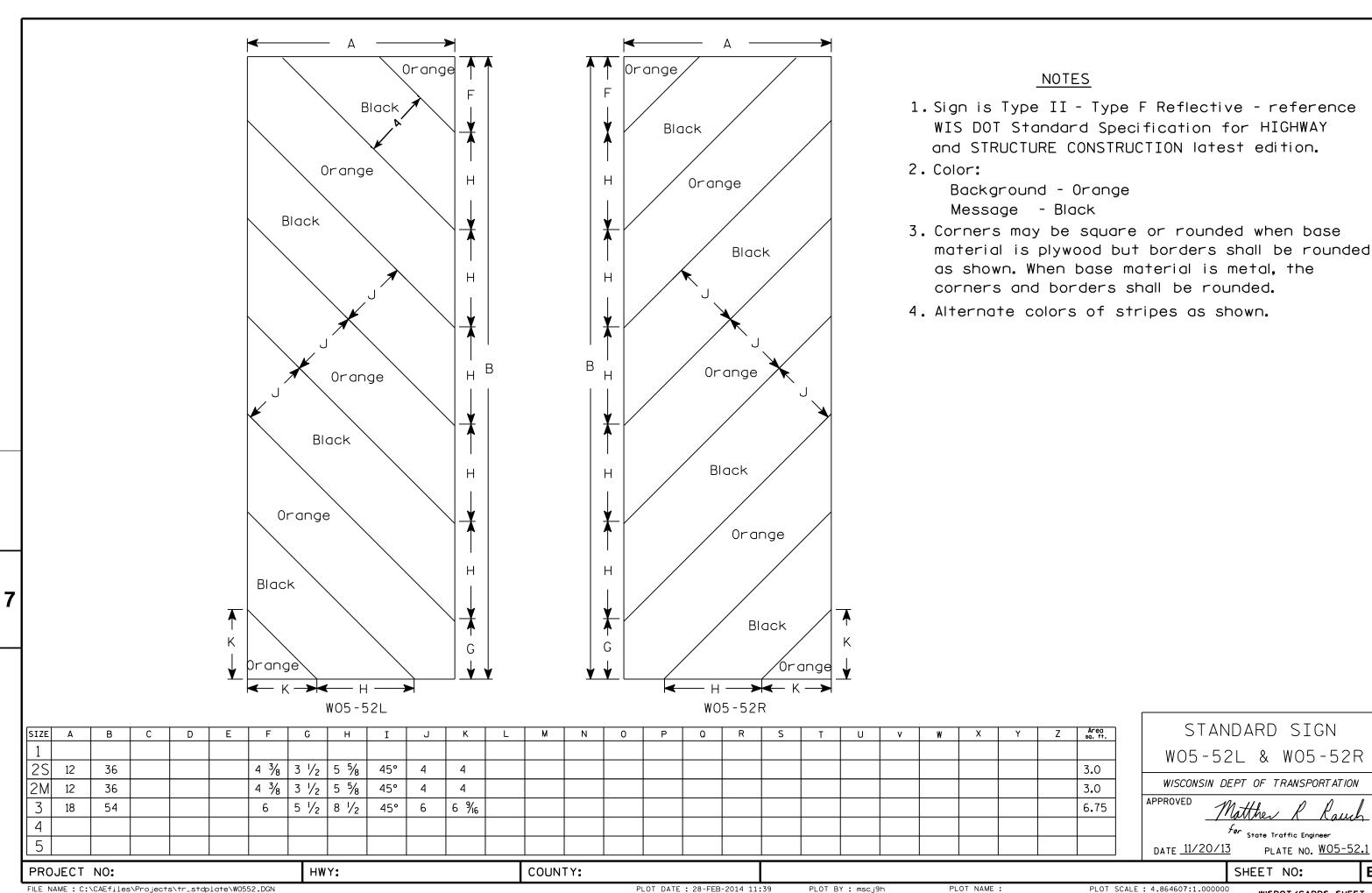
SHEET NO:

HWY:

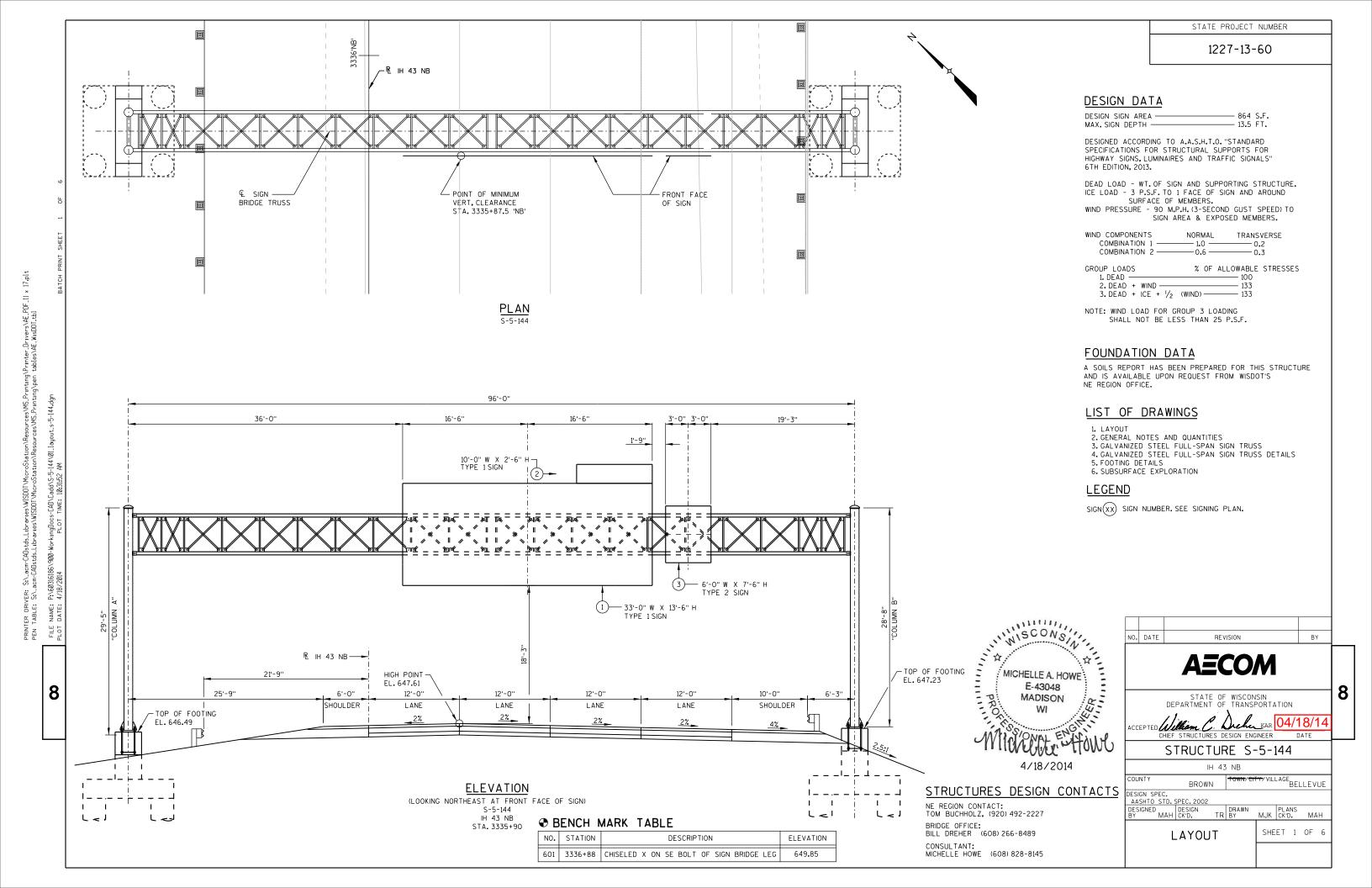
PROJECT NO:

PLOT BY: mscsja

PLATE NO. W05-1.1



PLOT NAME : PLOT SCALE: 4.864607:1.000000



|\Printer_Drivers\AE_PDF_1 | tables\AE_WisDOT.tbl

S:_acm-CAOstds_Libraries\WISOOT\MicroStation\Resources\WS_Printing` acm-CAOstds_Libraries\WISOOT\MicroStation\Resources\WS_Printing\pen

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

SIGN BRIDGE IDENTIFICATION PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "SIGN BRIDGE S-5-144". FABRICATE IN ACCORDANCE WITH S.D.D. 12A4-3.

CENTER SIGNS VERTICALLY ON CHORD/TRUSS.

ELEVATIONS ARE IN FEET UNLESS OTHERWISE SHOWN OR NOTED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED.

CENTER TYPE ISIGNS OVER THEIR RESPECTIVE LANES.

CASINGS FOR THE FOOTING SHAFTS ARE INCIDENTAL TO THE BID ITEM "SIGN SUPPORTS CONCRETE MASONRY" IN ACCORDANCE WITH SECTION 636.3.3 OF THE STANDARD SPECIFICATIONS. CASINGS SHALL BE REMOVED.

SIGNS OR BLANKS SHALL BE INSTALLED ON THE TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE BRIDGE, 2'-0" DEEPER THAN THE CENTER TO CENTER DISTANCE BETWEEN THE CHORDS AND SHALL BE CENTERED ON BRIDGE. PERMANENT SIGNS SHALL BE LOCATED AS SHOWN.

SIGN BRIDGE DESIGN DOES NOT INCLUDE ALLOWANCE FOR FUTURE CATWALK OR LOADS DUE TO LIGHTING.

PROVIDE A 3/4" CHAMFER OR 1" RADIUS ON ALL EXPOSED CONCRETE EDGES.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS OTHERWISE NOTED.

THE EXISTING STRUCTURE, S-5-100, IS A CANTILEVER SIGN BRIDGE, AND SHALL BE REMOVED.

ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 BOLTS, GALVANIZED A.S.T.M. A153, CLASS C UNLESS SHOWN OTHERWISE.

A490 BOLTS SHALL BE COATED PER A.S.T.M. F1136 GRADE 3.

A.S.T.M. A490 BOLTS SHALL NOT BE COATED BY HOT DIP GALVANIZING, MECHANICAL DEPOSITION, OR ELECTROPLATING WITH ZINC.

THE UPPER 12" OF ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE A.A.S.H.T.O. SPECIFICATION AS STATED IN SECTION 641. OF THE WISDOT STANDARD SPECIFICATIONS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF UNIT CAN BE GALVANIZED IN ONE PIECE UNLESS OTHERWISE NOTED.

ALL TOWER WEB TO COLUMN CONNECTIONS SHALL BE BOLTED.

WELD TEST AS PER AWD D1.1.

ULTIMATE DESIGN STRESSES:

| CONCRETE MASONRY f'c = 3,500 P.S.I. HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 fy = 60,000 P.S.I. |
|--|
| SIGN BRIDGE STEEL COLUMN PIPE: — fy = 42,000 P.S.I. A.P.I. SPEC. 5L GRADE X42 |
| STEEL PIPE MEMBERS OF TRUSS: — fy = 42,000 P.S.I. A.P.I. SPEC. 5L GRADE X42 |
| PLATES, BARS, STRUCTURAL ANGLES: ———————————————————————————————————— |
| STEEL ANCHOR BOLTS: fy = 55,000 P.S.I. A.A.S.H.T.O. M314-90 GRADE 55 |
| HIGH STRENGTH BOLTS - A325 — fy = 92,000 P.S.I. HIGH STRENGTH BOLTS - A490 — fy = 130,000 P.S.I. |

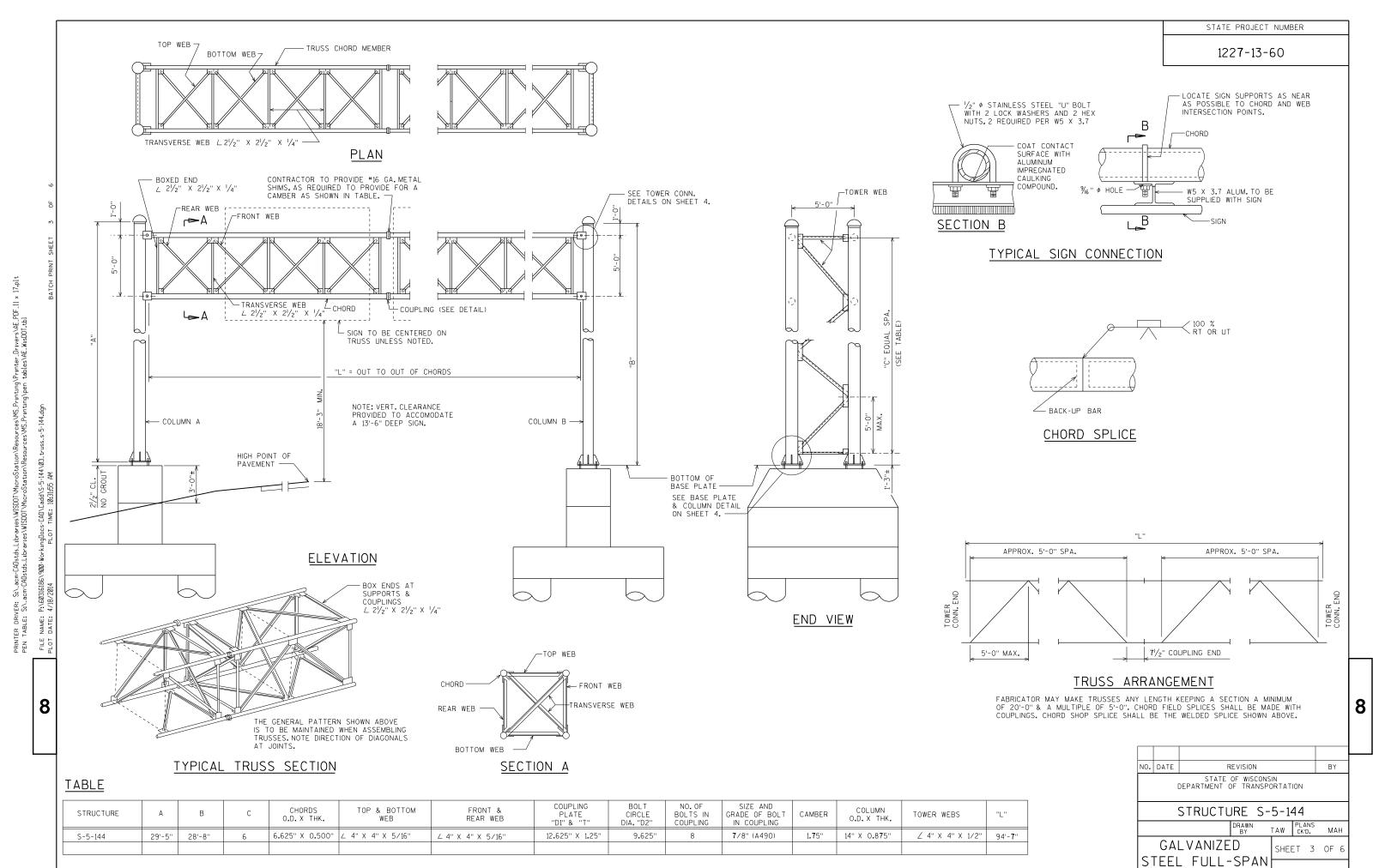
TOTAL ESTIMATED QUANTITIES

| | BID ITEM NUMBER | DESCRIPTION | UNIT | QUANTITY |
|--------------|--------------------|---|------|----------|
| | 203.0200 | REMOVING OLD STRUCTURE STA. 3334+12 | LS | 1 |
| | 636.0100 | SIGN SUPPORTS CONCRETE MASONRY | CY | 87 |
| | 636.1000 | SIGN SUPPORTS STEEL REINFORCEMENT HS | LB | 6,340 |
| | 636.1500 | SIGN SUPPORTS STEEL COATED REINFORCEMENT HS | LB | 2,180 |
| lacktriangle | 641.6600 | SIGN BRIDGE S-5-144 | LS | 1 |

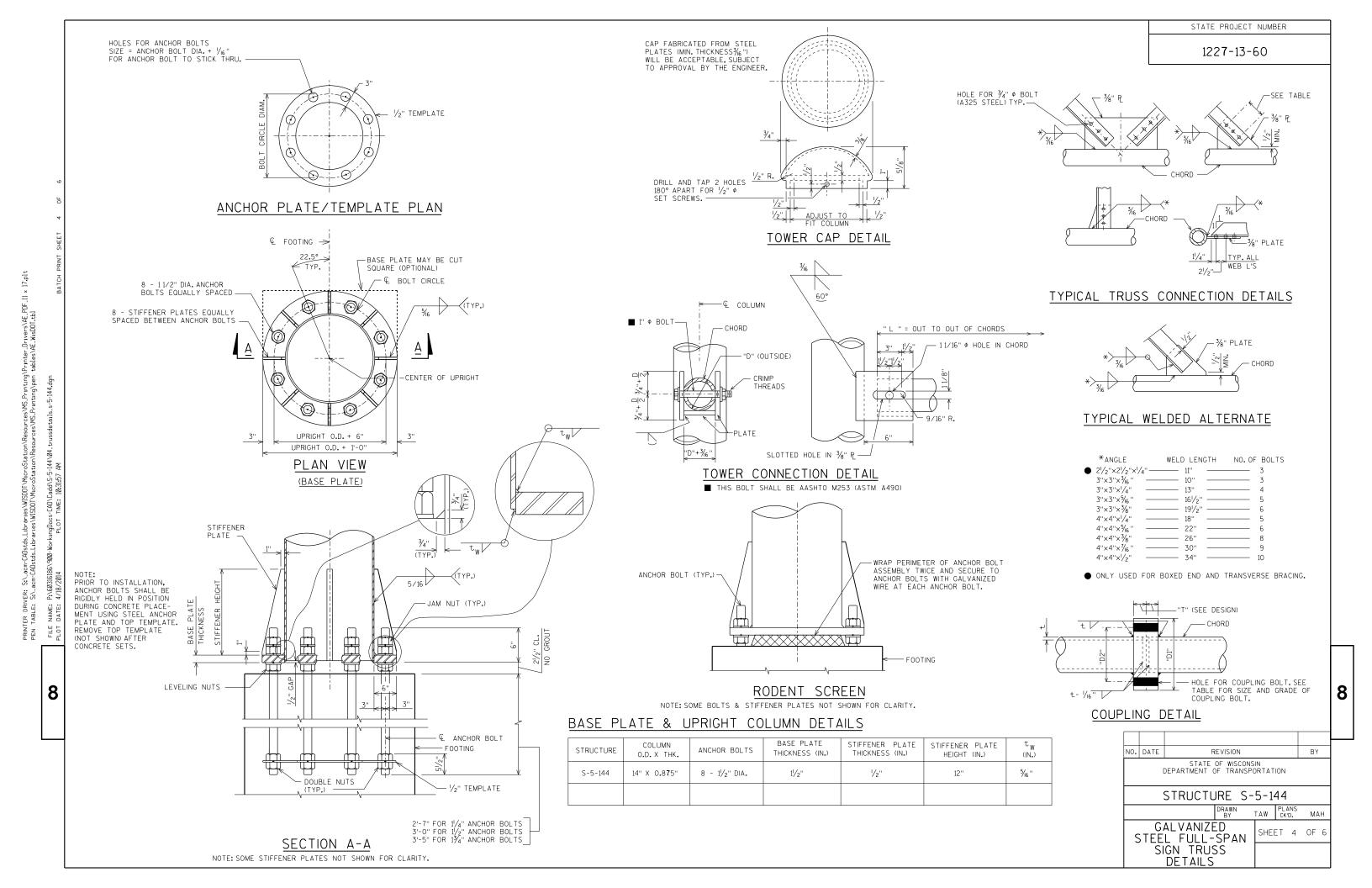
LEGEND

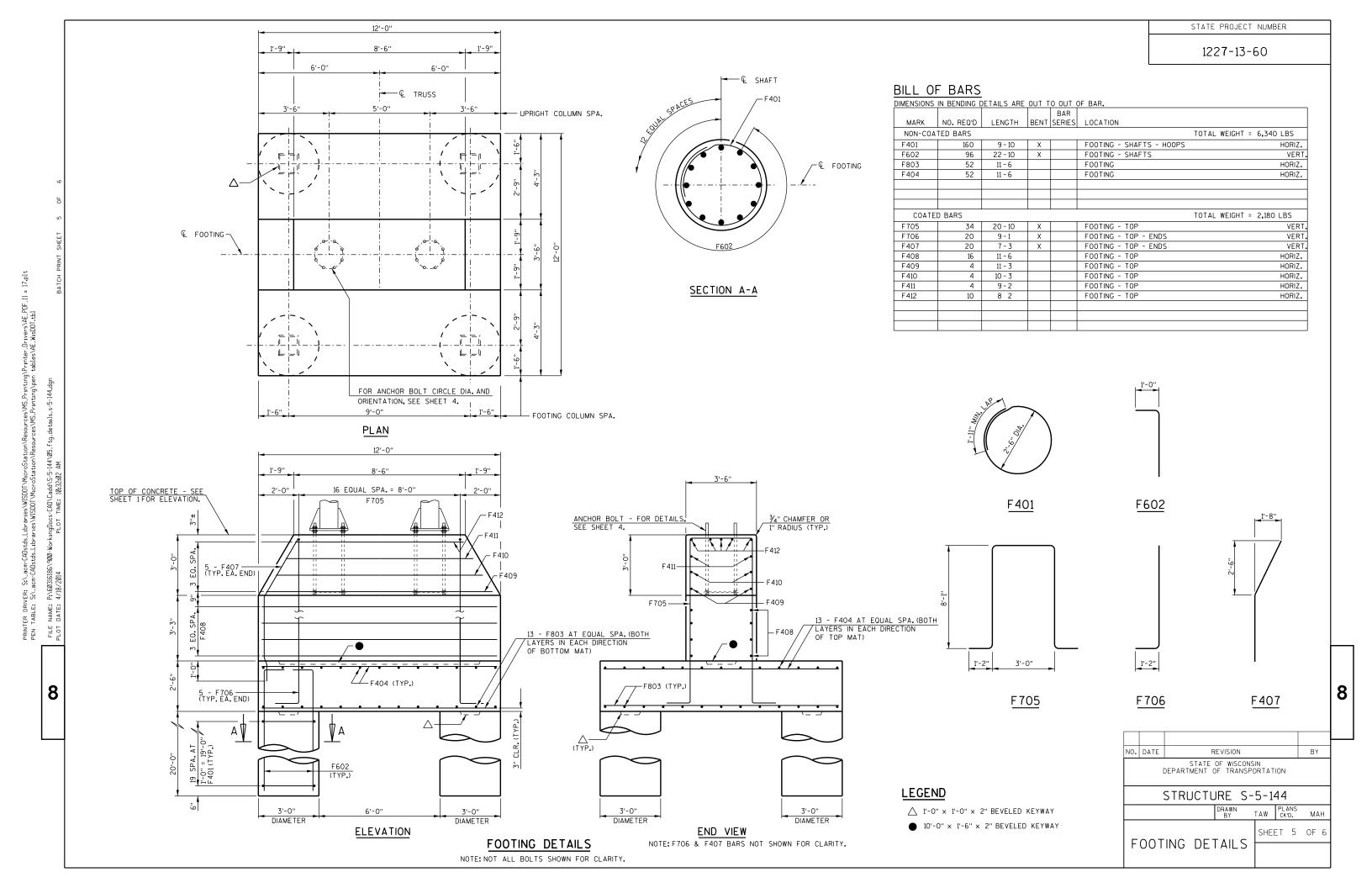
THIS LUMP SUM PAY ITEM INCLUDES HORIZONTAL TRUSS, VERTICAL STEEL COLUMN, AND ANCHOR ASSEMBLIES.

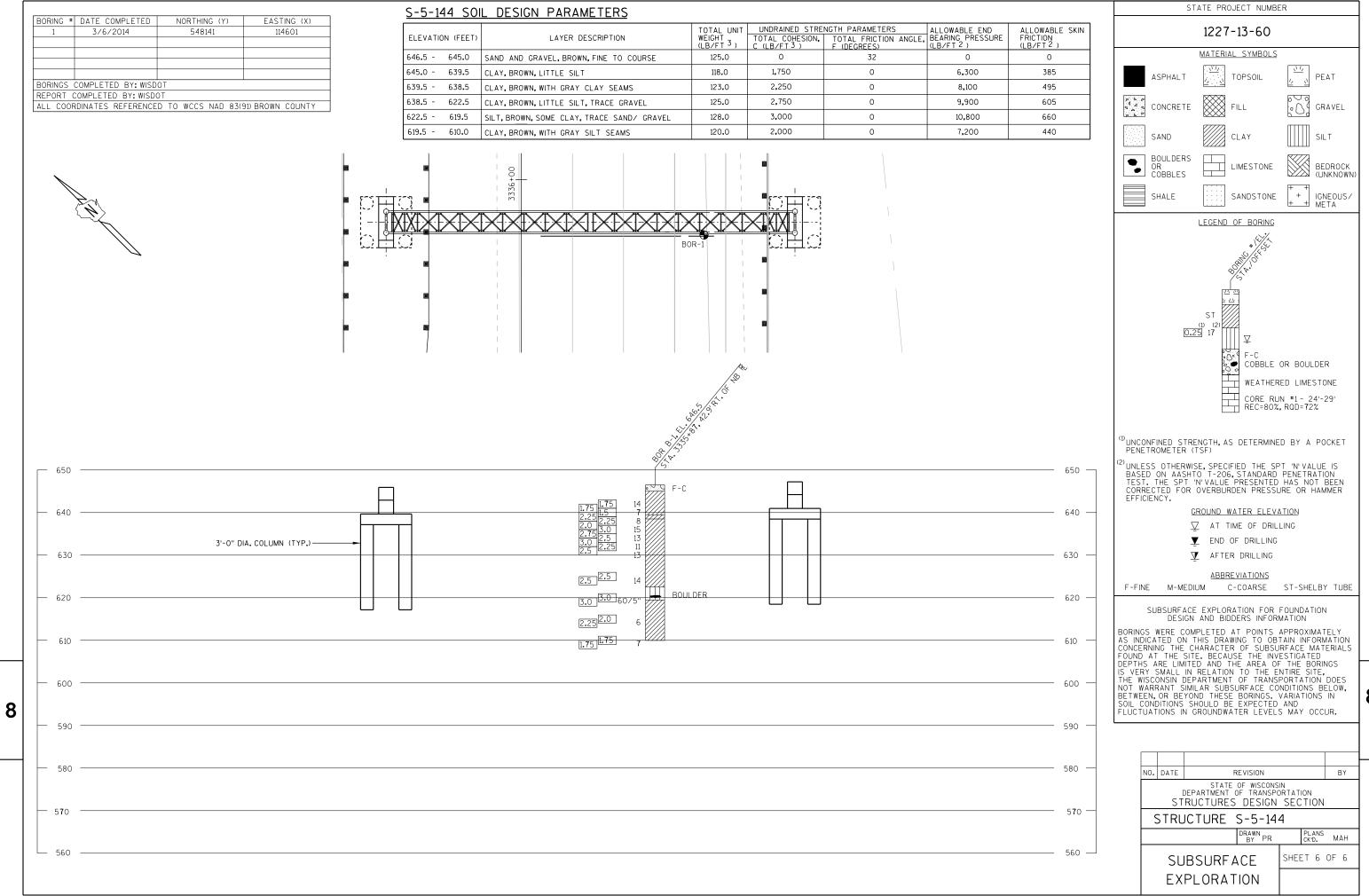
| ١0. | DATE | F | REVISION | | | BY |
|-----|------|-----------------------|--------------------------|-----|----------------|------|
| | [| STATE DEPARTMENT (| OF WISCONS OF TRANSPI | | ION | |
| | | STRUCTL | JRE S- | 5-1 | 44 | |
| | | | DRAWN BY | TAW | PLANS CK'D. | МАН |
| (| ENE | TRAL NO | TES | SHE | ET 2 | OF 6 |
| 4 | AND | QUANTI | TIES | | | |



SIGN TRUSS







EARTHWORK QUANTITIES

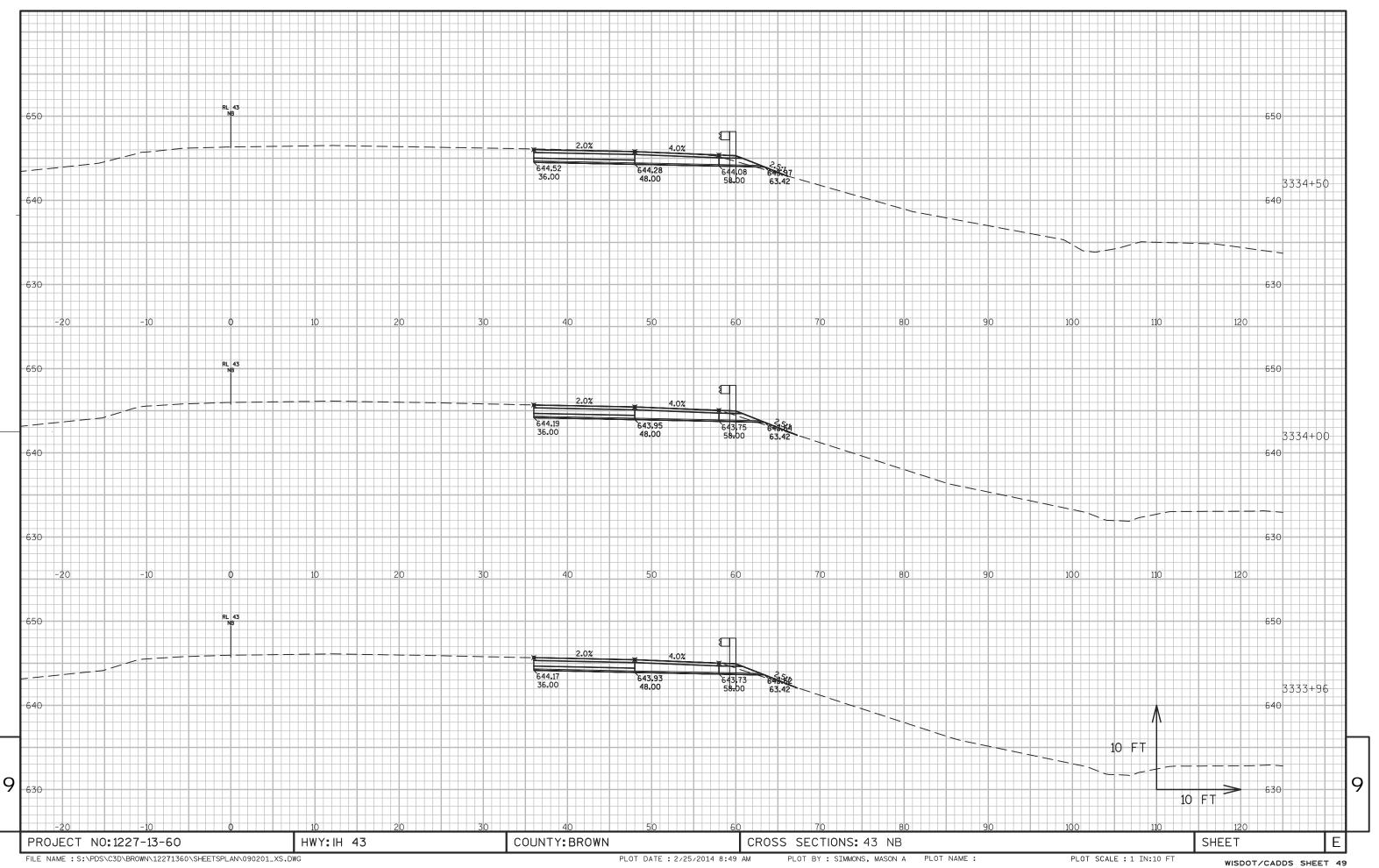
| Sta. | Cut Area (SF) | Cut Volume (CY) | Fill Area (SF) | Fill Volume (CY) | Cum. Cut Vol. (CY) | Cum. Fill Vol. (CY) | Cum. Net Vol. (CY) |
|-------------|---------------|-----------------|----------------|------------------|--------------------|---------------------|--------------------|
| 3333+93.500 | 30 | 0 | 1 | 0 | 0 | 0 | 0 |
| 3334+00.000 | 30 | 4 | 1 | 0 | 4 | 0 | 4 |
| 3334+50.000 | 30 | 55 | 1 | 2 | 59 | 2 | 57 |
| 3335+00.000 | 30 | 55 | 1 | 2 | 114 | 4 | 110 |
| 3335+50.000 | 30 | 55 | 1 | 2 | 169 | 6 | 164 |
| | | | | | | | |
| 3336+00.000 | 30 | 55 | 1 | 2 | 224 | 8 | 216 |
| 3336+50.000 | 30 | 55 | 2 | 2 | 279 | 10 | 269 |
| 3337+00.000 | 30 | 50 | 2 | 3 | 329 | 13 | 316 |
| 3337+50.000 | 30 | 50 | 1 | 2 | 379 | 15 | 364 |
| 3338+00.000 | 25 | 50 | 1 | 2 | 429 | 17 | 412 |
| | | | | | | | |
| 3338+50.000 | 25 | 50 | 3 | 4 | 479 | 21 | 458 |
| 3339+00.000 | 25 | 45 | 6 | 8 | 524 | 29 | 495 |
| 3339+50.000 | 20 | 40 | 8 | 10 | 564 | 39 | 525 |
| 3339+69.085 | 20 | 15 | 7 | 5 | 579 | 44 | 535 |
| 3339+79.300 | 20 | 8 | 7 | 3 | 587 | 47 | 540 |
| 2222 22 225 | • | _ | _ | _ | | | |
| 3339+88.085 | 20 | 7 | 7 | 2 | 594 | 49 | 545 |
| 3340+00.000 | 20 | 9 | 7 | 3 | 602 | 52 | 550 |
| 3340+50.000 | 20 | 40 | 4 | 10 | 642 | 62 | 580 |
| 3341+00.000 | 20 | 35 | 3 | 7 | 678 | 69 | 609 |
| 3341+50.000 | 20 | 35 | 2 | 5 | 713 | 74 | 639 |
| 3342+00.000 | 15 | 30 | 1 | 3 | 743 | 77 | 666 |
| 3342+50.000 | | | | | 743 763 | | |
| | 15 | 20 | 0 | 2 | | 79 70 | 684 |
| 3342+53.000 | 0 | 1 | 0 | 0 | 764 | 79 | 685 |
| TOTAL | | 764 | | 80 | 764 | 79 | 685 |

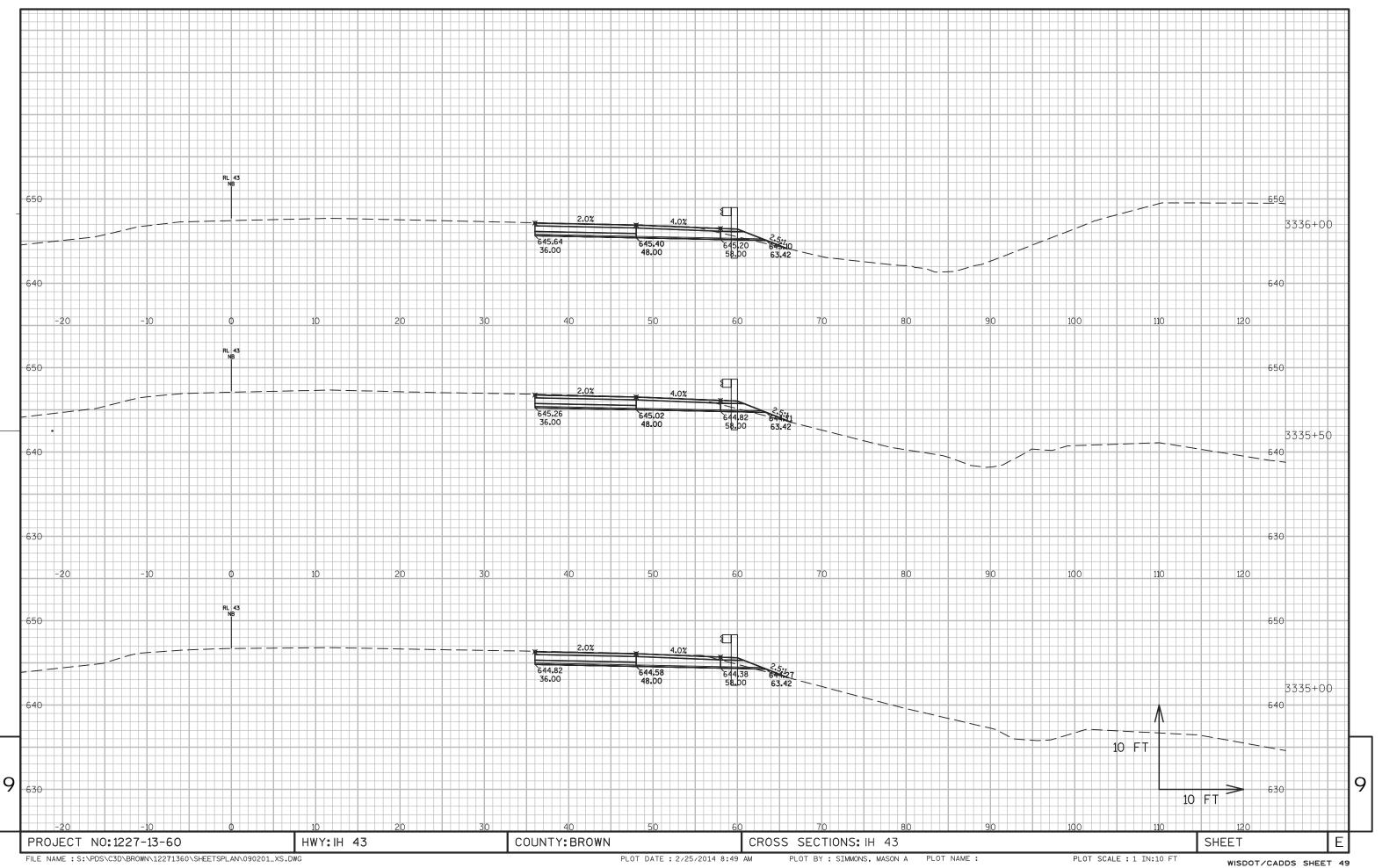
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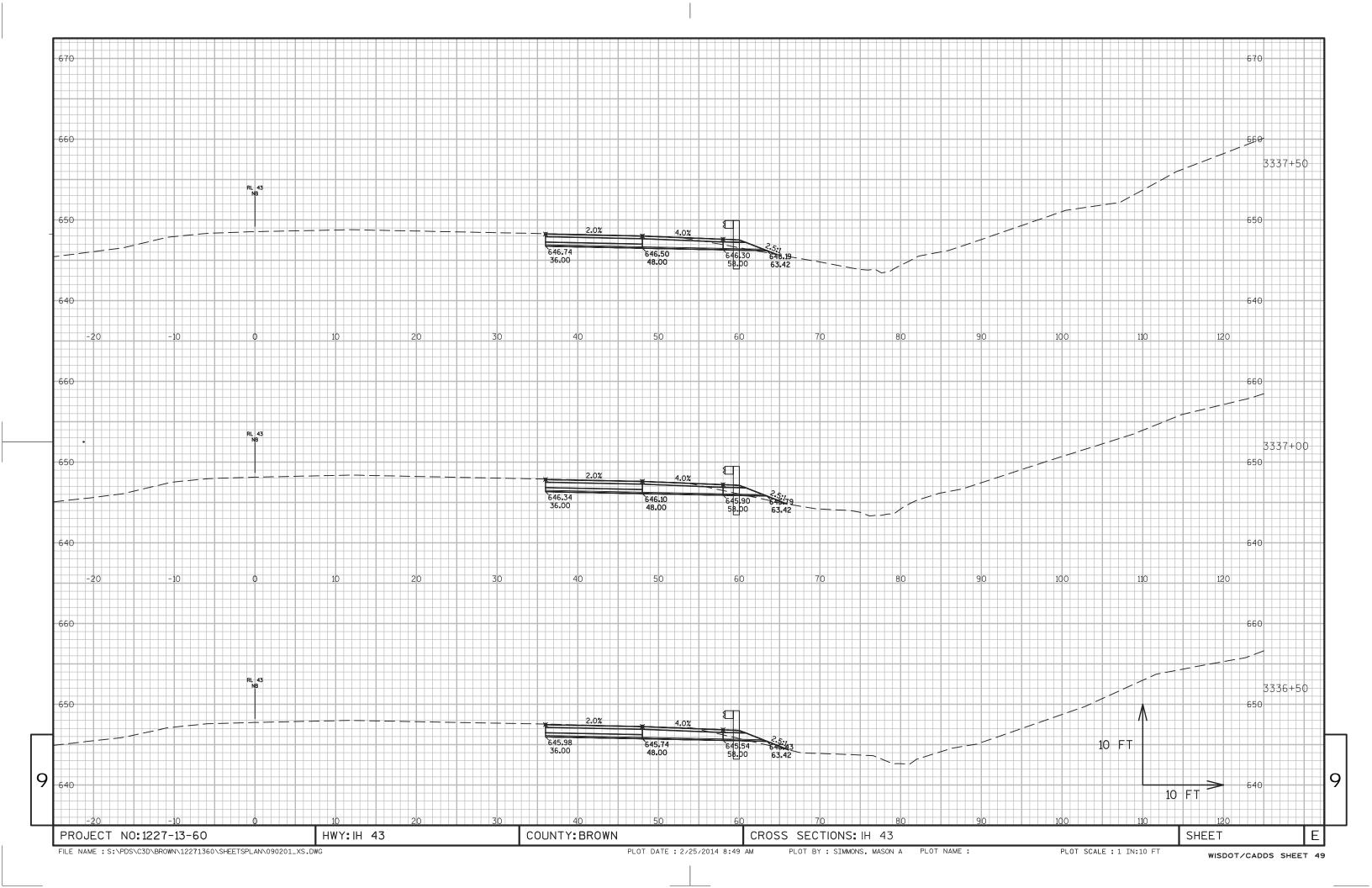
9

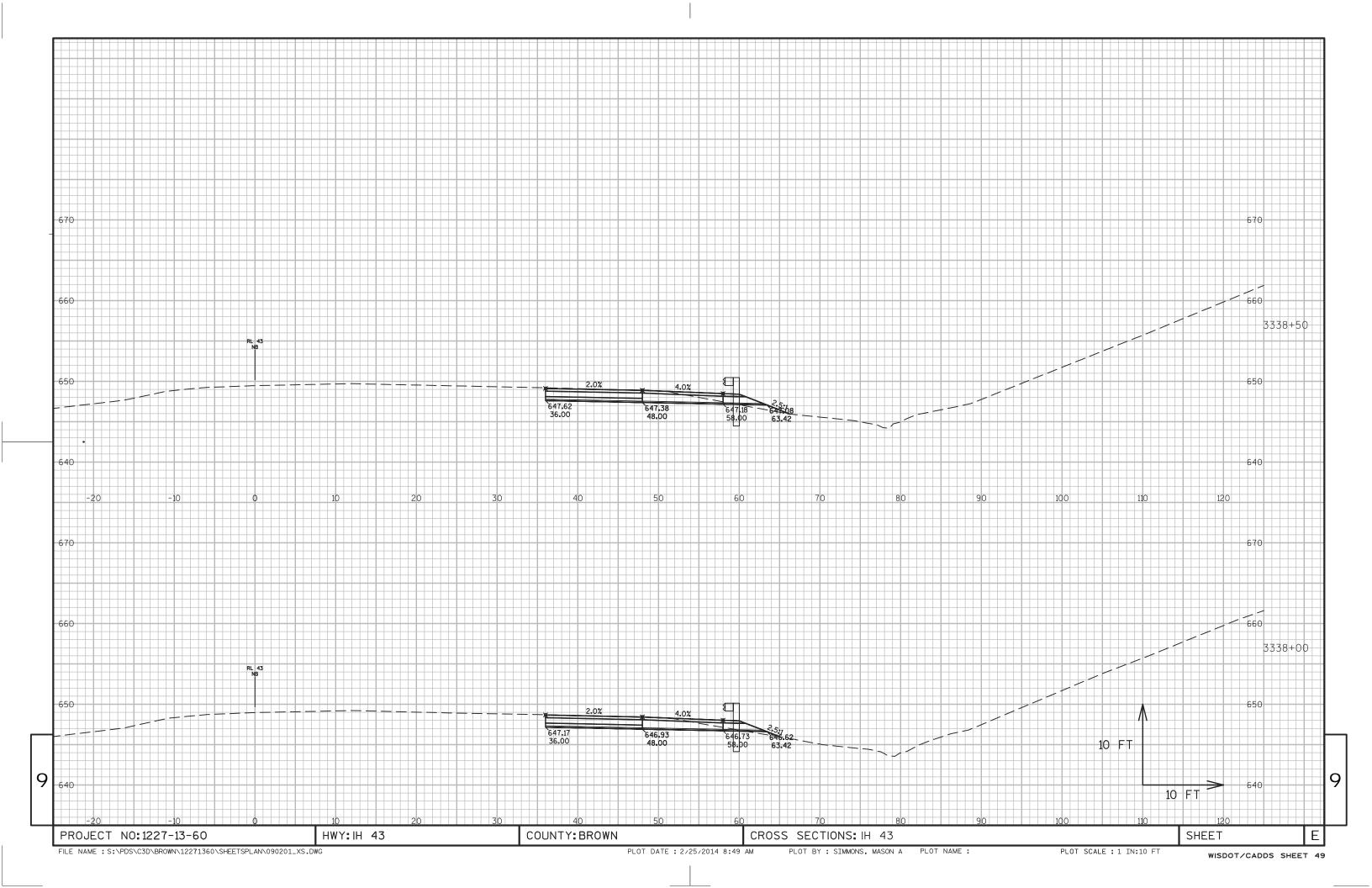
PROJECT NO: 1227-13-60 HWY: IH 43 COUNTY: BROWN EARTHWORK QUANTITIES SHEET: **E**

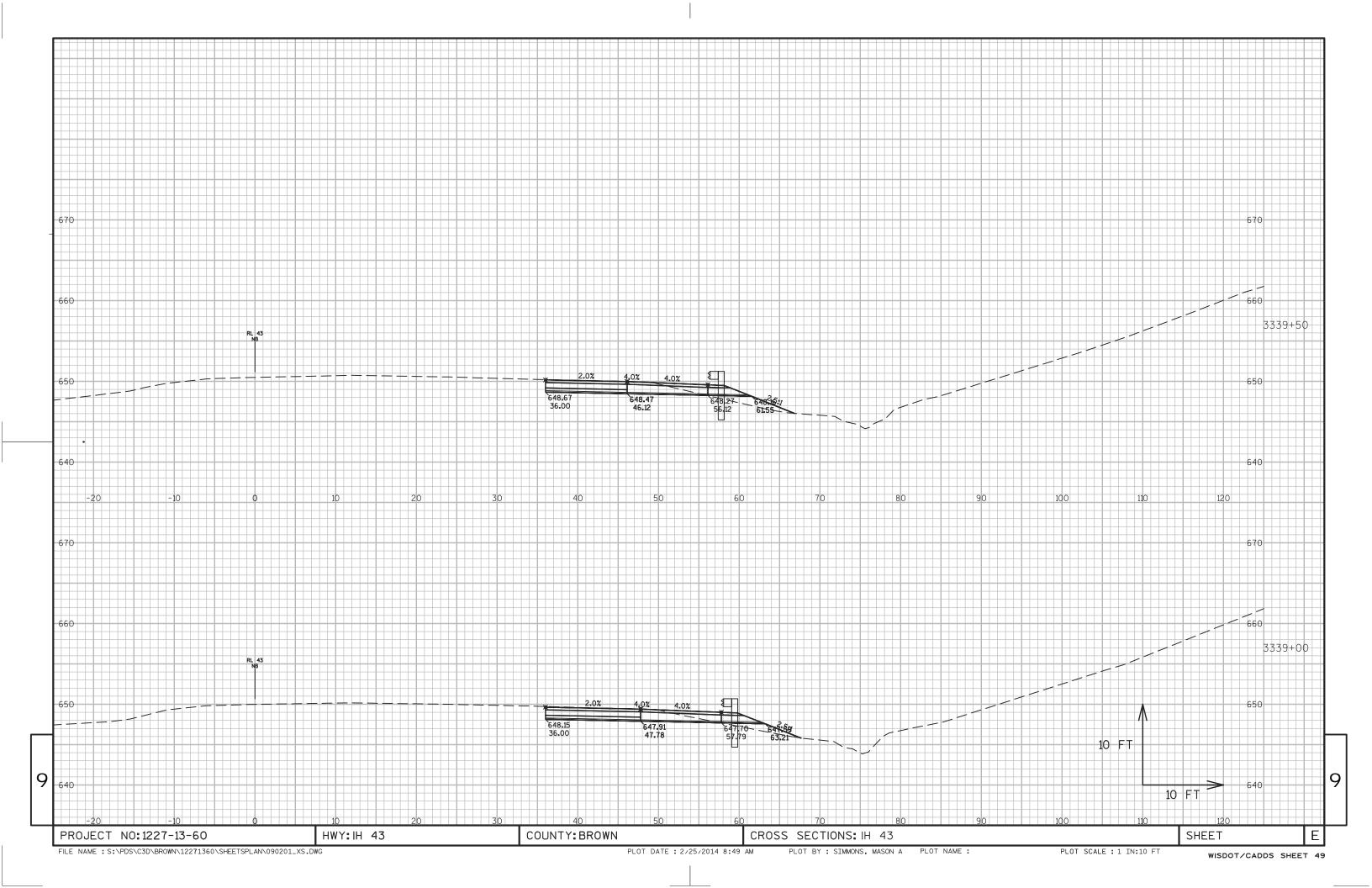
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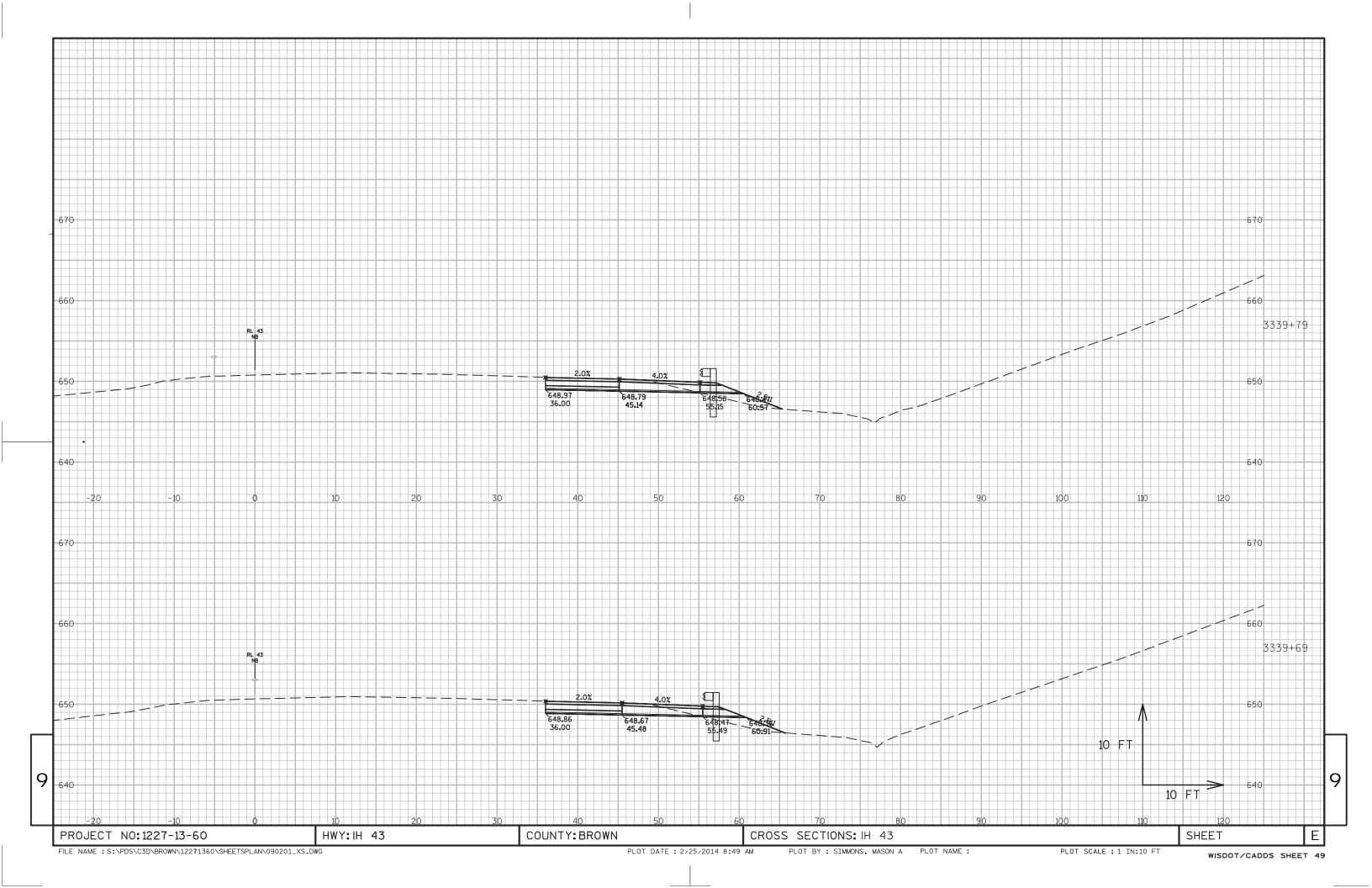


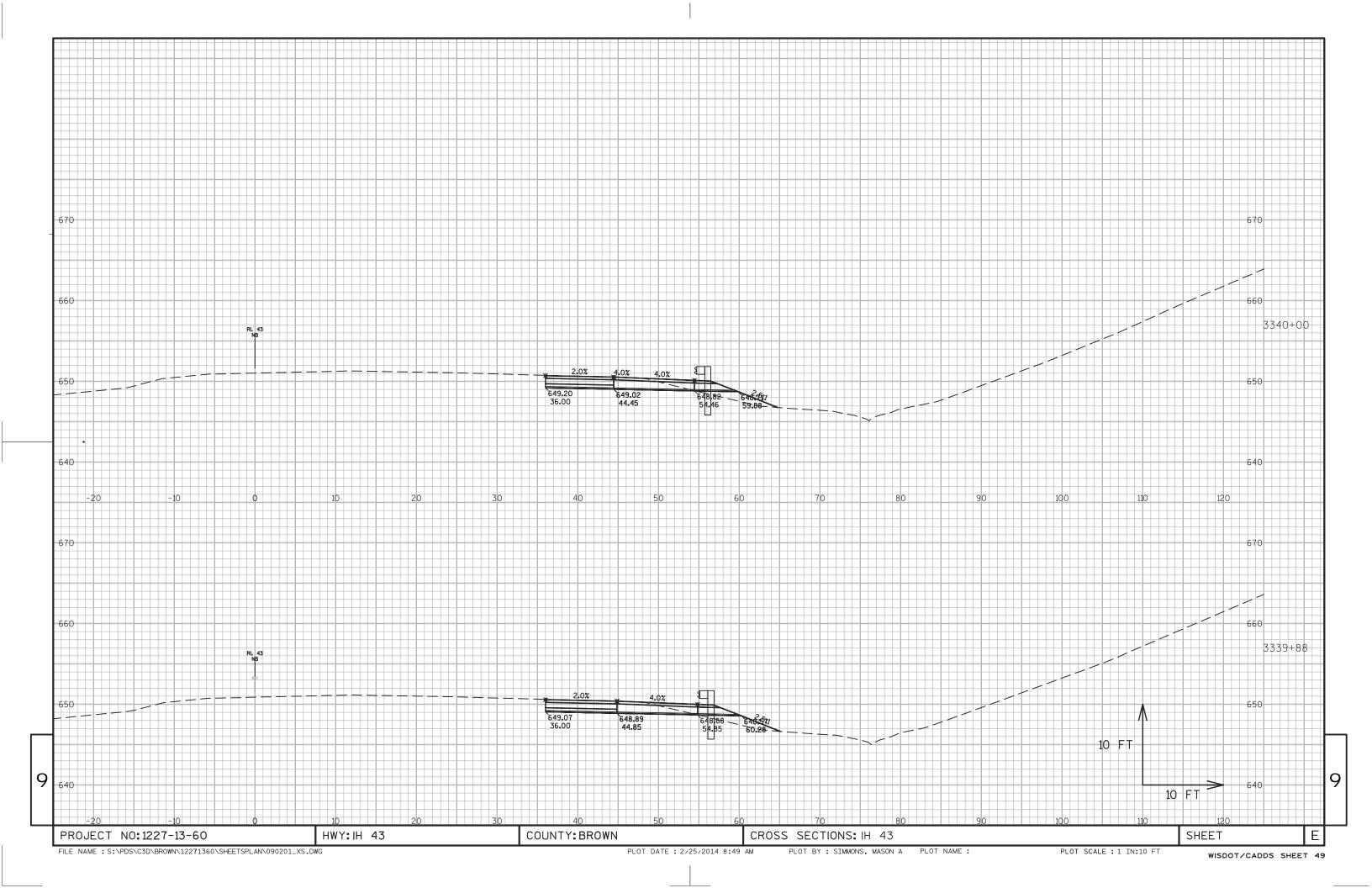


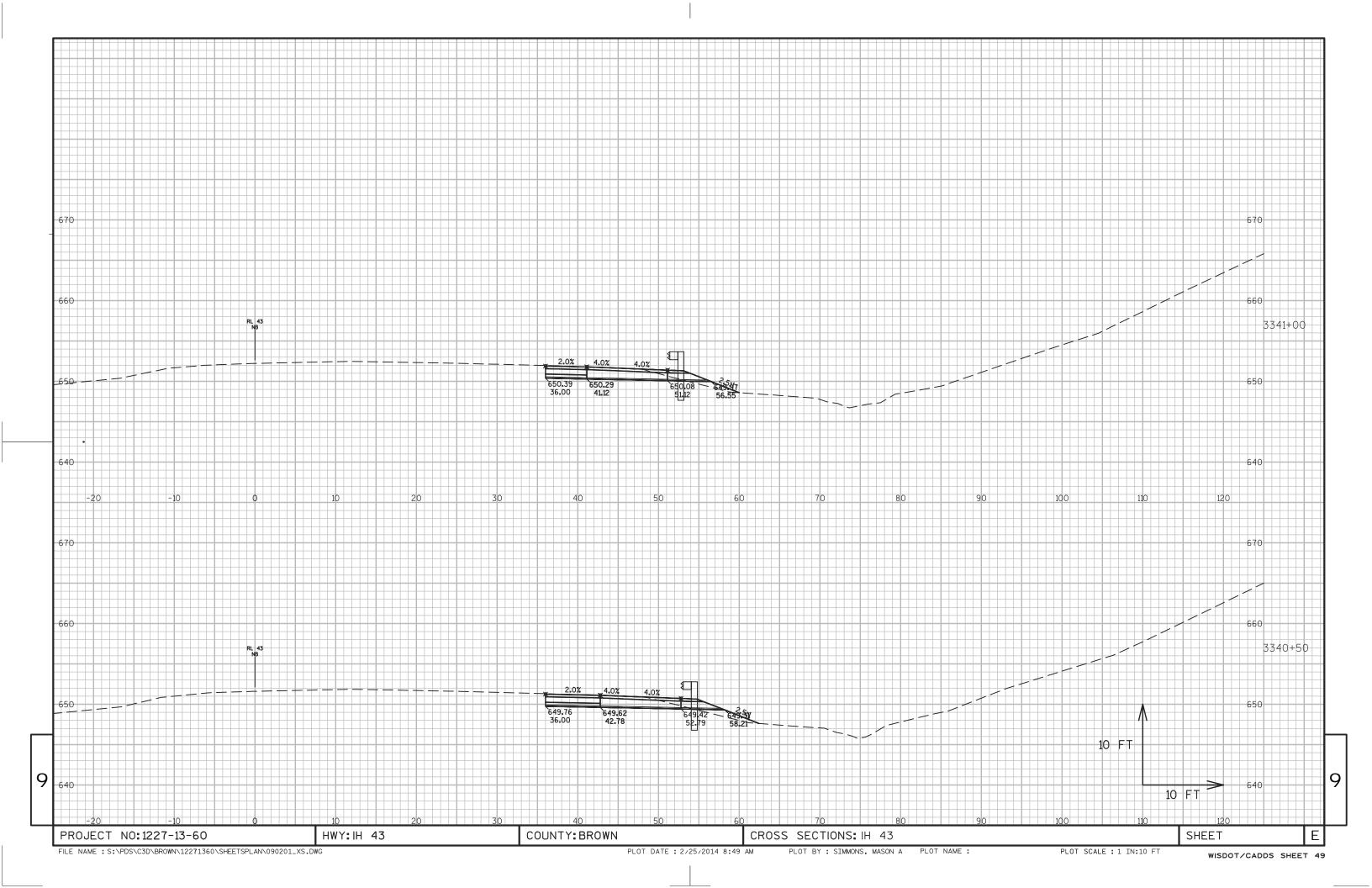


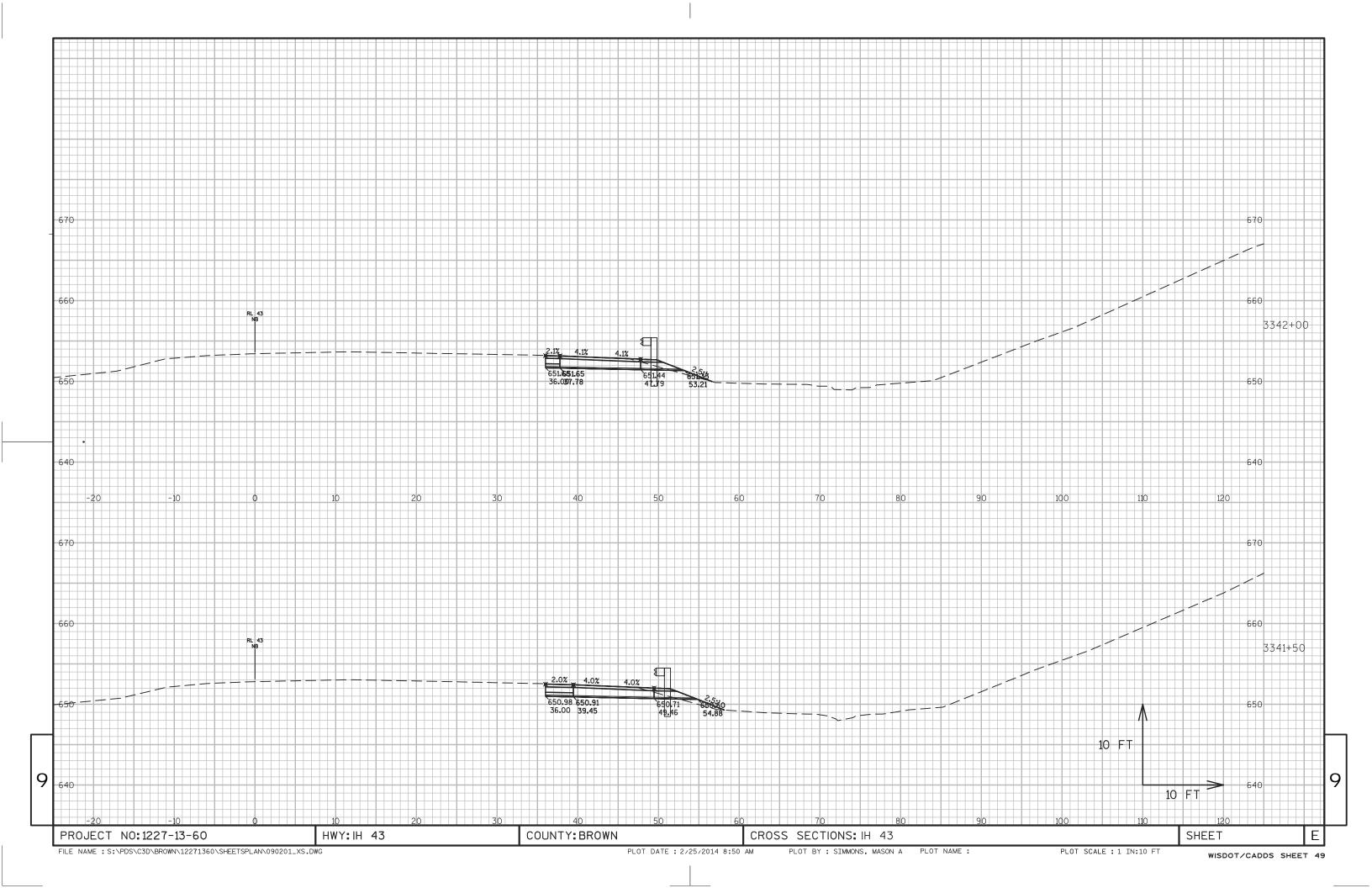


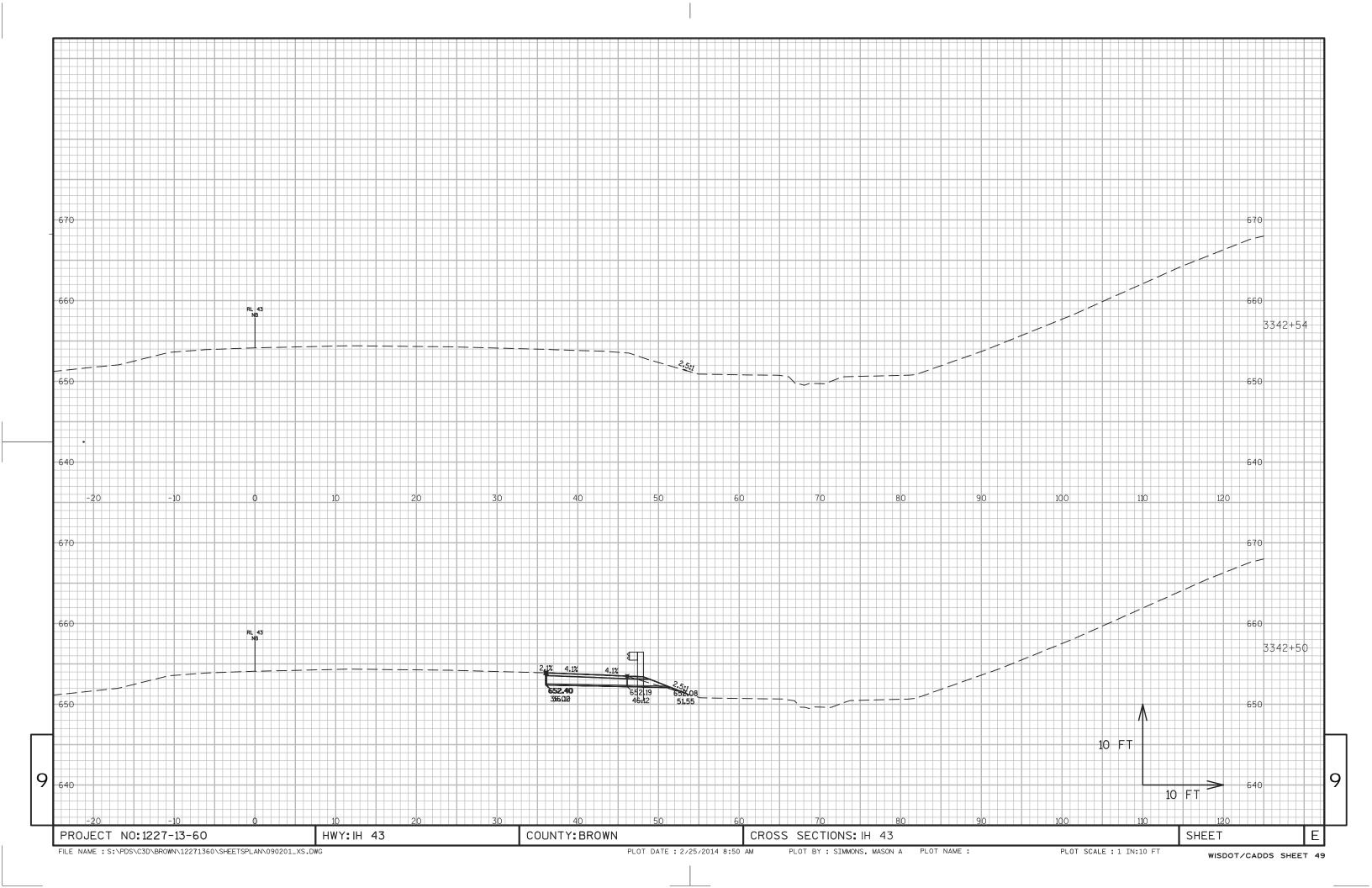












Notes



Wisconsin Department of Transportation

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http://www.dot.wisconsin.gov