## JULY 2015 ORDER OF SHEETS PROJECT WITH: Section No. 1 Section No. 2 Section No. 3 Section No. 3 Section No. 5 Section No. 6 Section No. 7 0 Section No. 9 9 Section No. 9 Cross Sections TOTAL SHEETS = 118 9 DESIGN DESIGNATION A.A.D.T. A.A.D.T. D.H.V. DESIGN SPEED **ESALS** MAR CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT

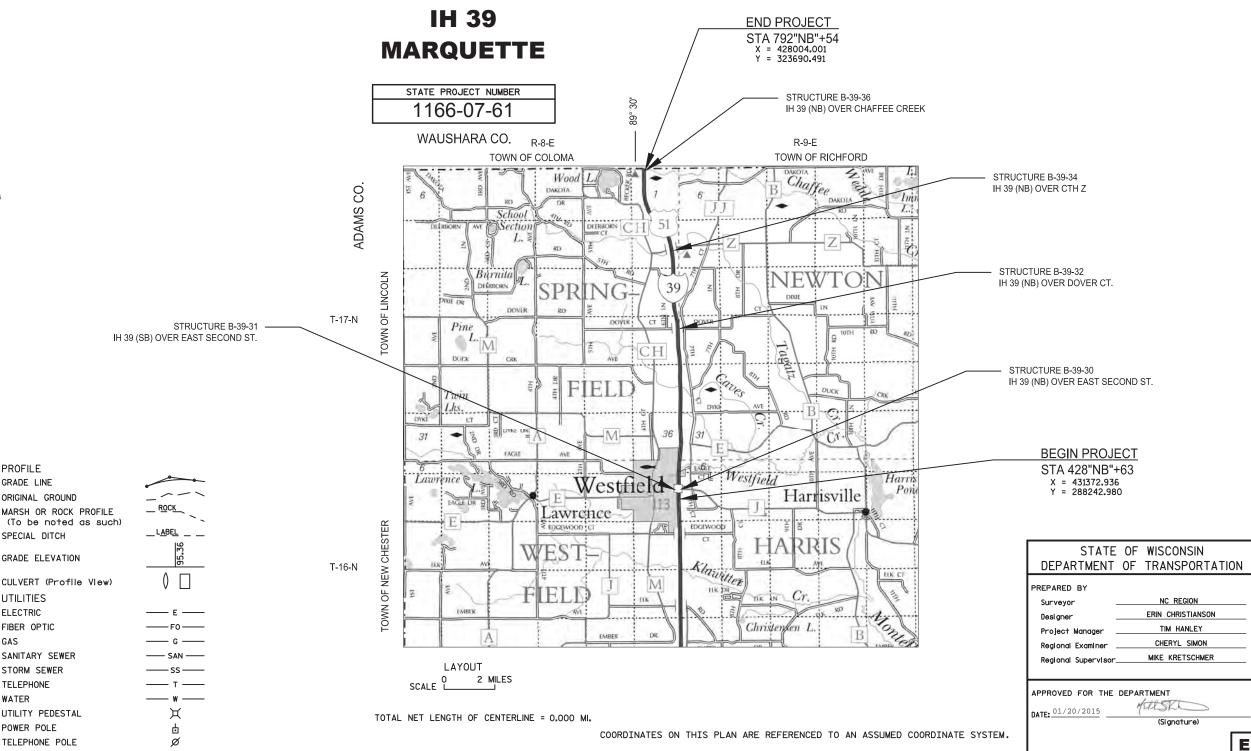
# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

## FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1166-07-61 WISC 2015432

## PACKWAUKEE-COLOMA

B-39-30,31,32,34,36



Typical Sections and Details Estimate of Quantities

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Right of Way Plat

Plan and Profile

Structure Plans

Sign Plates

2015 = 14700

= 18000

= 67-33

*!//////* 

**PROFILE** 

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

STORM SEWER

TELEPHONE

POWER POLE

GRADE ELEVATION

= 17.3

= 70 = 7,840,200

2035

REFERENCE LINE

EXISTING CULVERT

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

#### **UTILITIES**

**GENERAL NOTES** 

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY EXIST.

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

CURVE DATA SHOWN ON PLANS IS BASED ON AS-BUILTS.

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

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

PAVING OPERATION SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING LANE.

## **AS-BUILT REFERENCE (YEAR)\***

PROJECT: 1660-01-61 (1999)

PROJECT: 1166-03-72 (1993) PROJECT: 1161-03-75 (1983) PROJECT: 1161-03-78 (1983) PROJECT: 1166-04-80 (2007)

## **DNR CONTACT**

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

BOBBI JO FISCHER 1427 EAST TOWER DR. WAUTOMA, WI 54982 PHONE: 920-787-4686



ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRIC

JON TRZESNIAK

PO BOX 70

FRIENDSHIP, WI 53934-0070 PHONE: 800-831-8629 EXT 424

MOBILE: 608-547-9648

E-MAIL: jtrzesniak@acecwi.com

Send all Alliant Correstpondence to: ALLIANT ENERGY - ELECTRIC

ATTN: JASON HOGAN

SUITE 1000

4902 N BILTMORE LANE MADISON, WI 53718 PHONE: 608-458-4871 MOBILE: 608-395-7395

E-MAIL: jasonhogan@alliantenergy.com

ALLIANT CONSTRUCTION FIELD CONTACT:

ALLIANT ENERGY - ELECTRIC

ATTN: MARK VILLARS 880 N WISCONSIN ST BERLIN, WI 54923

PHONE:920-361-5652

E-MAIL: markvillars@alliantenergy.com

PIONEER POWER AND LIGHT COMPANY - ELECTRIC

DENNIS DAHLKE II 104 NORTH MAIN ST WESTFIELD, WI 53964 PHONE: 608-296-2149 MOBILE: 608-369-2421

E-MAIL: pioneerpowerquote@gmail.com

Send all WE Energies Correstpondence to:

WE ENERGIES - GAS ATTN: LATROY BRUMFIELD

ROOM A299 333 W EVERETT ST

MILWAUKEE, WI 53203 PHONE: 414-221-5617

E-MAIL: latroy.brumfield@we-energies.com

WE ENERGIES - GAS RYAN MIENTKE

1921 8TH STREET SOUTH WISCONSIN RAPIDS, WI 54494

PHONE: 715-421-7249 MOBILE: 715-421-9293

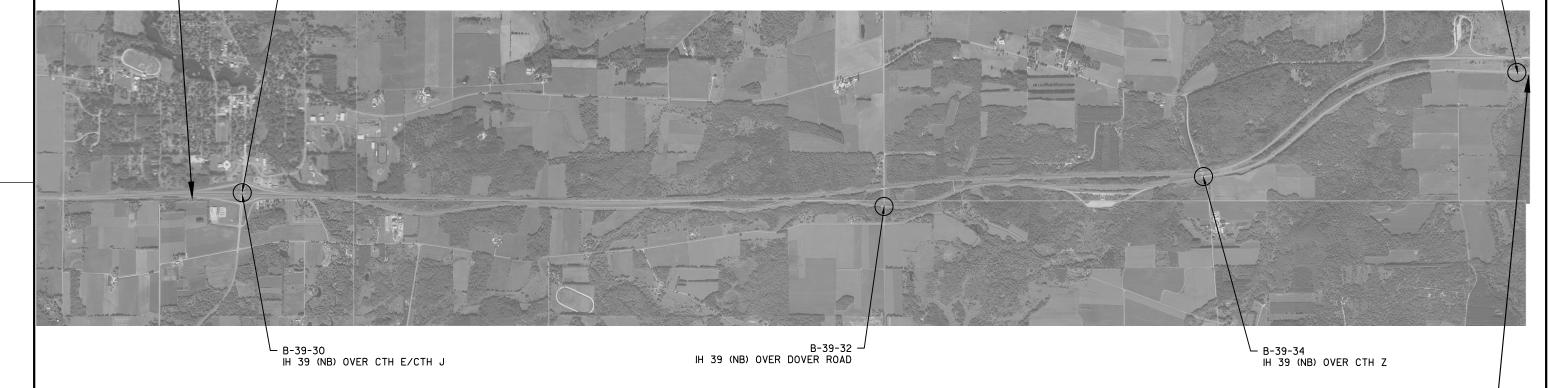
PROJECT NO: 1166-07-61 HWY: IH 39 COUNTY: MARQUETTE GENERAL NOTES SHEET: I

\_\_\_\_\_z

BEGIN PROJECT STA 428"NB"+63

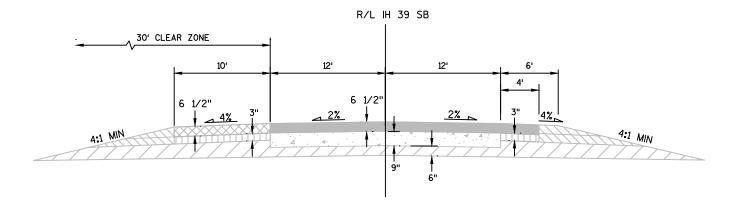
> √ B-39-31 |H 39 (SB) OVER CTH E/CTH J

B-39-36 — IH 39 (NB) OVER CHAFFEE CREEK BRIDGE

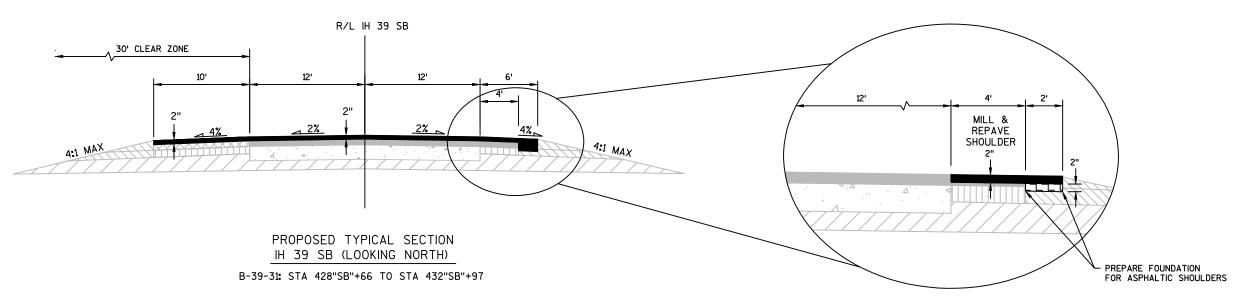


END PROJECT STA 792"NB"+54

PROJECT NO:1166-07-61 HWY: H 39 COUNTY: MARQUETTE PROJECT OVERVIEW SHEET **E** 



EXISTING TYPICAL SECTION IH 39 SB (LOOKING NORTH) B-39-31: STA 428"SB"+66 TO STA 432"SB"+97



LEGEND

EXISTING HMA PAVEMENT TYPE E-10

EXISTING CONCRETE PAVEMENT

EXISTING SINGLE AGGREGATE BITUMINOUS PAVEMENT

EXISTING HMA PAVEMENT TYPE E-1

EXISTING CRUSHED AGGREGATE BASE COURSE (SHOULDER)

EXISTING CRUSHED AGGREGATE BASE COURSE

HMA PAVEMENT TYPE E-10

HMA PAVEMENT TYPE 3-10 WIDENING & PREPARE FOUNDATION FOR ASPHALTIC PAVING

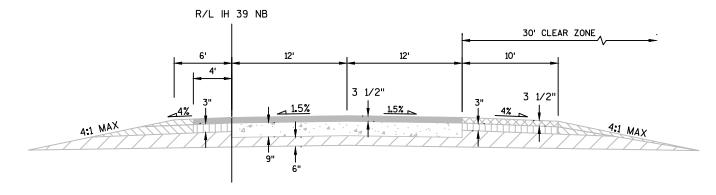
PROJECT NO: 1166-07-61 HWY: IH 39 COUNTY: MARQUETTE Ε PLAN: TYPICAL SECTION SHEET PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:10 FT

PROPOSED TYPICAL SECTION

IH 39 SB WIDENING (LOOKING NORTH)

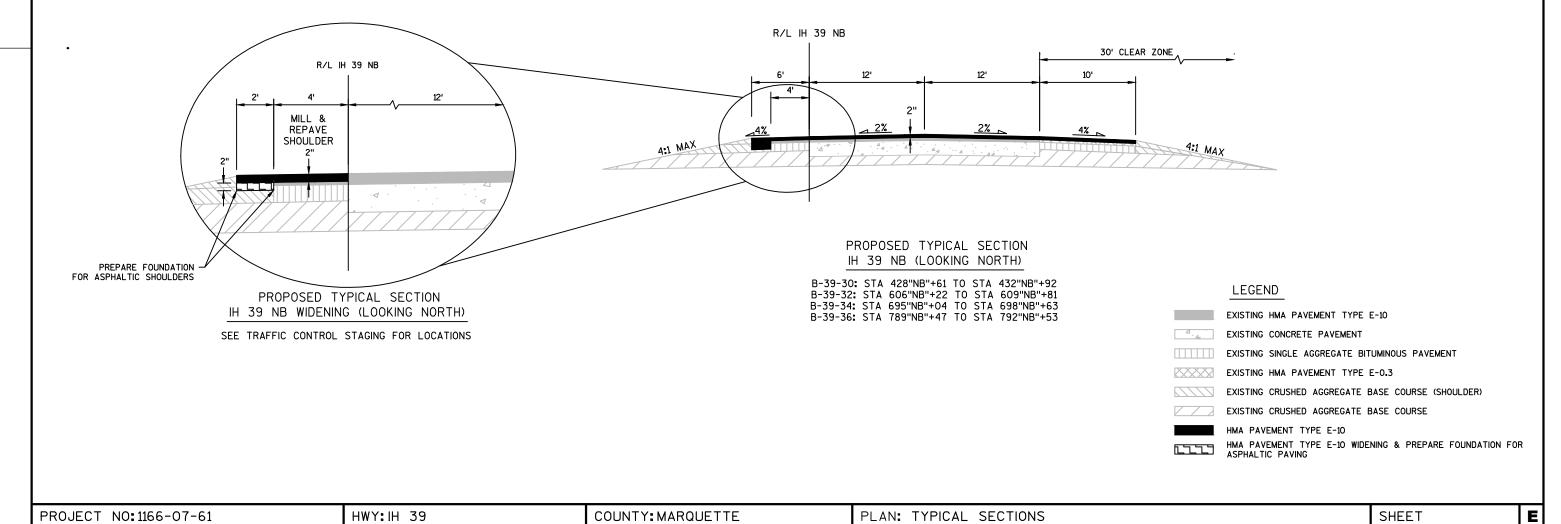
SEE TRAFFIC CONTROL STAGING FOR LOCATIONS





#### EXISTING TYPICAL SECTION IH 39 NB (LOOKING NORTH)

B-39-30: STA 428"NB"+61 TO STA 432"NB"+92 B-39-32: STA 606"NB"+22 TO STA 609"NB"+81 B-39-34: STA 695"NB"+04 TO STA 698"NB"+63 B-39-36: STA 789"NB"+47 TO STA 792"NB"+53



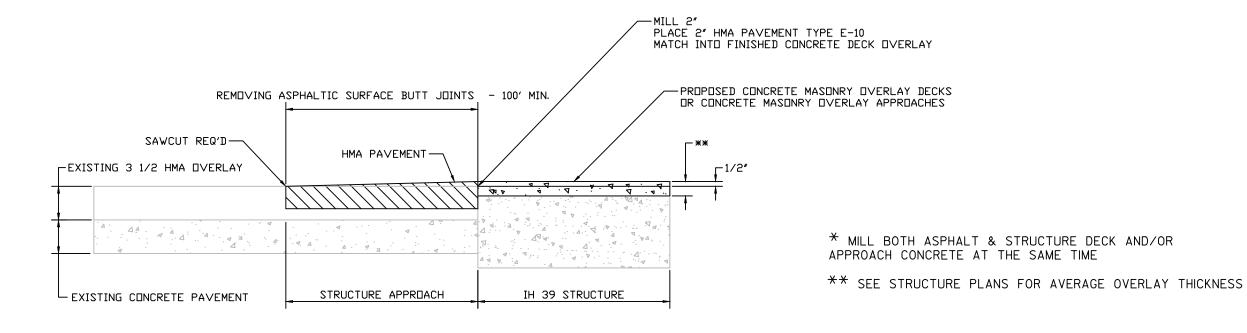
HWY: IH 39

PROJECT NO: 1166-07-61

PLAN: TYPICAL SECTIONS

SHEET



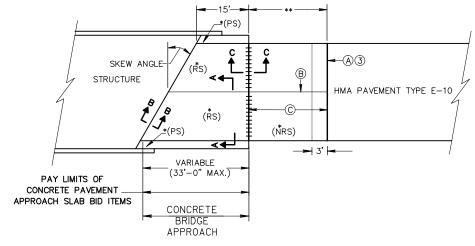


DETAIL FOR BUTT JOINT - APPROACH TO STRUCTURE OR CONCRETE APPROACH OVERLAY STRUCTURES B-39-30, 31, 32, 34, 36

PROJECT NO:1166-07-61 HWY: H 39 COUNTY: MARQUETTE CONSTRUCTION DETAIL SHEET **E** 

FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\021001-CD.DWG

PLOT DATE: 12/30/2014 8:19 AM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42



SKEWS ≤30°
(PAVEMENT WDTH ≤30')
APPROACH SLAB AND ADJACENT PAVEMENT

\*(RS) = REINFORCED CONCRETE SLAB

\*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN (SEE DETAILS ELSEWHERE IN THE PLAN)

\*(NRS) = NON-REINFORCED CONCRETE SLAB

\*\*STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13) \*\*\*STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11, & SDD 13C13)

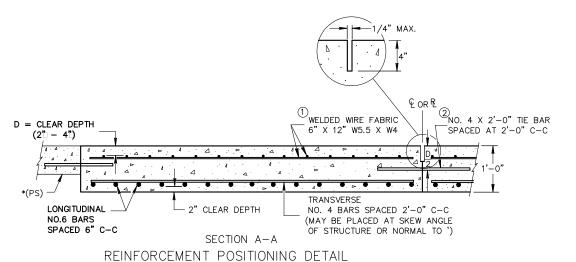
- A STANDARD CONTRACTION JOINT NORMAL TO R ORC
- (B) STANDARD LONGITUDINAL JOINT AND TIE BARS.
- $\hbox{\ensuremath{$\stackrel{\circ}{\mathbb{C}}$}}$  1 1/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO  ${\ensuremath{$\mathbb{R}$}}$  OR  ${\ensuremath{\mathbb{Q}}}$

GENERAL NOTES

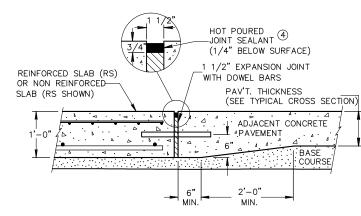
THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

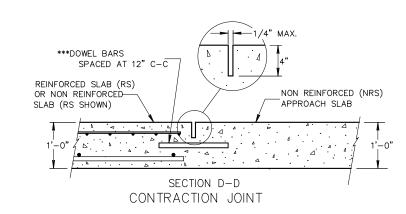
- (1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
- ② THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
- 3 DO NOT DOWEL A CONTRACTION JOINT THAT ABUTS AN HMA PAVEMENT.
- (4) USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.
- $\begin{tabular}{llll} \hline (5) & PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP. \\ \hline \end{tabular}$



1/2" HOT POURED JOINT SEALANT (1/4" BELOW SURFACE) STANDARD 180° HOOK, ROTATE TO PROVIDE 21/2" CLEAR DEPTH 1'-0" NO. 4 TRANSVERSE NO. 6 BARS LONGITUDINAL BARS BRIDGE ABUTMENT SECTION B-B BEND DETAIL BOTTOM REINFORCEMENT



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



PROJECT NO:1166-07-61 HWY: IH 39 COUNTY: MARQUETTE CONSTRUCTION DETAIL

PLOT SCALE : 1 IN:10 FT

E

SHEET

#### **LEGEND**

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMENENT SUPPORT

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

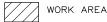
TRAFFIC CONTROL DRUM

FLASHING ARROW BOARD

TYPE "A" WARNING LIGHT (FLASHING)

\* \* \* REMOVING PAVEMENT MARKING

□ DIRECTION OF TRAFFIC



#### GENERAL NOTES

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 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

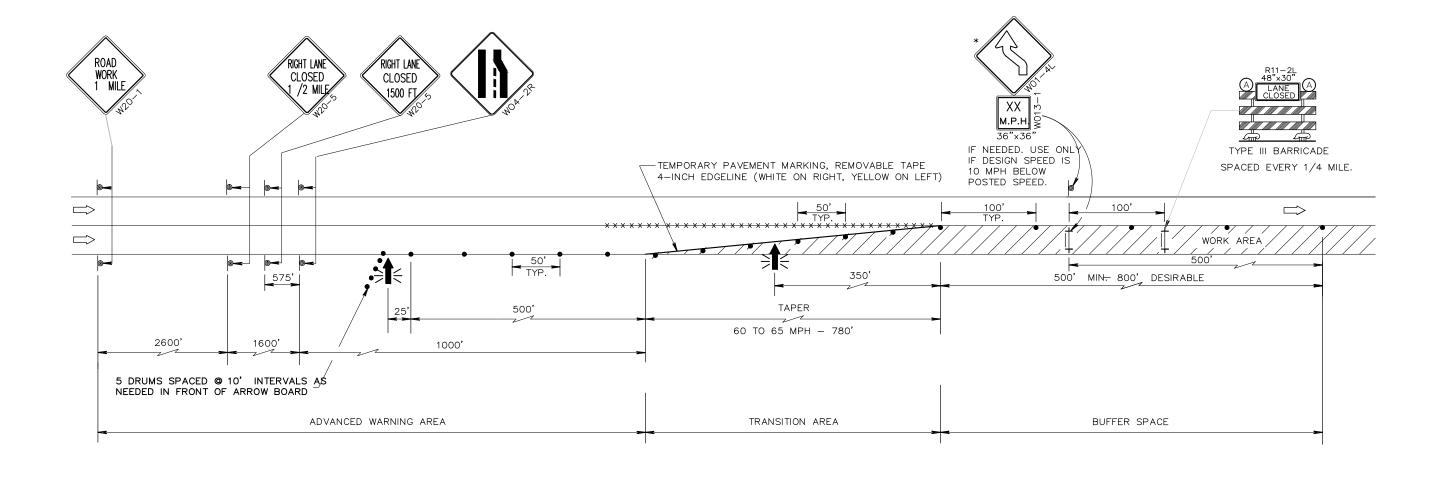
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

\* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\021001-CD.DWG

HWY: IH 39

PROJECT NO: 1166-07-61

COUNTY: MARQUETTE PLOT DATE: 1/8/2015 7:49 AM

CONSTRUCTION DETAIL - STAGES 1. 4 & 5

PLOT SCALE : 1 IN:10 FT

SHEET

WISDOT/CADDS SHEET 42

E

NOTE: NO STAGING OF EQUIPMENT OR MATERIALS SHALL BE PLACED IN THE SENSITIVE AREA LOCATIONS. XXX IH 39 (SB) B-39-31 428"SB" 436"SB" #32"NB" 434"NB" 428"NB" IH 39 (NB) B-39-30

LEGEND

**X** 1

INLET PROTECTION

SENSITIVE AREA (DO NOT DISTURB)

PROJECT NO:1166-07-61 HWY: IH 39 COUNTY: MARQUETTE EROSION CONTROL (SENSITIVE AREAS) SHEET

NOTE: NO STAGING OF EQUIPMENT OR MATERIALS SHALL BE PLACED IN THE SENSITIVE AREA LOCATIONS.

**—** Z



LEGEND

INLET PROTECTION

SENSITIVE AREA (DO NOT DISTURB)

PROJECT NO:1166-07-61 HWY: H 39 COUNTY: MARQUETTE EROSION CONTROL (SENSITIVE AREAS) SHEET E

FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\022002-EC.DWG LAYOUT NAME - 022002-EC PLOT SCALE : 1 IN:100 FT

NOTE: NO STAGING OF EQUIPMENT OR MATERIALS SHALL BE PLACED IN THE SENSITIVE AREA LOCATIONS.



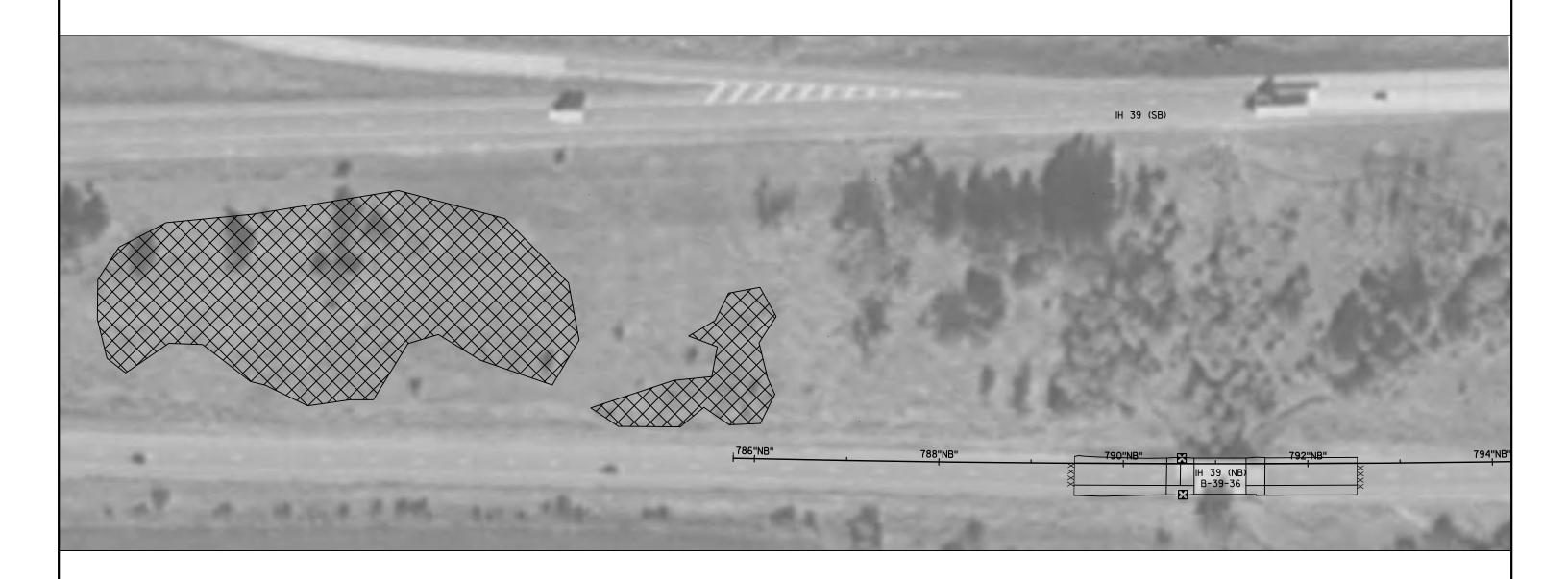
LEGEND

INLET PROTECTION

SENSITIVE AREA (DO NOT DISTURB)

PROJECT NO:1166-07-61 HWY: IH 39 COUNTY: MARQUETTE EROSION CONTROL (SENSITIVE AREAS) SHEET E

NOTE: NO STAGING OF EQUIPMENT OR MATERIALS SHALL BE PLACED IN THE SENSITIVE AREA LOCATIONS.



LEGEND

SENSITIVE AREA (DO NOT DISTURB)

PROJECT NO:1166-07-61 HWY:H 39 COUNTY:MARQUETTE EROSION CONTROL (SENSITIVE AREAS) SHEET E

MM 126 MM 125 MM 124 Coloma Richford MM 123 CH B-39-36 (IH 39 NB OVER CHAFFEE CREEK) CONCRETE OVERLAY. PROTECTIVE MM 122 SURFACE TREATMENT, CONCRETE SURFACE REPAIR. MILE MARKER 120.0 MM 121 \_\_\_WAUSHARA \_\_\_MARQUETTE COUNTY MM 120 Chaffee DAKOTA B-39-34 (IH 39 NB OVER CTH Z) DAKOTA CONCRETE OVERLAY, PROTECTIVE MM 119 SURFACE TREATMENT, CONCRETE SURFACE REPAIR MILE MARKER 118.2 MM 118 DEÉRBORN 39 B-39-32 (IH 39 NB OVER DOVER RD) DIXIE CONCRETE OVERLAY, PROTECTIVE DOE DR MM 117 SURFACE TREATMENT, CONCRETE SURFACE REPAIR. Pine MILE MARKER 116.5 MM 116 DUCK SITE 3 PCMS (NB) DUCK MM 115 B-39-30 (IH 39 NB OVER CTH E/CTH J) SITE 2 PCMS (SB) CONCRETE OVERLAY, PROTECTIVE SURFACE TREATMENT, CONCRETE MM 114 SURFACE REPAIR. MILE MARKER 113.2 Westfie SITE 1 MM 113 PCMS (NB) \_awrence B-39-31 (IH 39 SB OVER CTH E/CTH J) CONCRETE OVERLAY, PROTECTIVE EDGEWOOD CT SURFACE TREATMENT, CONCRETE MM 112 SURFACE REPAIR. MILE MARKER 113.2 MM 111 MILE Christensen L. SIGN OWNER  $\mathbb{B}$ MM 110 MARKER SITE 1 CONTRACTOR 31 MM 109 1 112.1 NB 31 6

MM 108

MM 107

HWY: IH 39

L.

Emerv

GENERAL NOTES FOR CHANGEABLE MESSAGE BOARDS

PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING MESSAGE SIGNS. PLACE THE SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE MESSAGE FOR A MINIMUM OF 1000 FEET.

MESSAGE SIGNS SHOULD BE PLACED AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF INTERSTATE CONSTRUCTION PROJECT, THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY.

FOR INTERMITTENT WORK SUCH AS FREEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER, THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS, A TAPER OF REFLECTIVE DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF A PCMS THAT IS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

SITE 1 MESSAGE SIGN IS TO BE IN PLACE AND DISPLAYING THE "PRIOR TO CONSTRUCTION" MESSAGES FOR 7 DAYS PRIOR TO THE EXPECTED START OF WORK ON IH 39 NB.

SITE 2 MESSAGE SIGN IS TO BE IN PLACE AND DISPLAYING THE "PRIOR TO CONSTRUCTION" MESSAGES FOR 7 DAYS PRIOR TO THE EXPECTED START OF WORK ON IH 39 SB.

> MAINTENANCE CROSSOVER LOCATIONS (MILE MARKER) 111.5 112.6 113.3 116.0 116.9

118.4

120.4

MESSAGE OVERVIEW 7 DAYS PRIOR TO USER NAME CONSTRUCTION STAGE 1 STAGE 2 STAGE 3 STAGE 4 I.P. ADDRESS FRAME 1 | FRAME 2 | FRAME 1 | FRAME 2 FRAME 1 FRAME 2 **PASSWORD** FRAME 1 FRAME 2 FRAME 1 FRAME 2 (2 SEC) SEE SEE BRIDGE LEFT LN MERGE RIGHT LN **MERGE** CONTRACTOR CONTRACTOR WORK XX/XX/XX CLOSED RIGHT CLOSED LEFT OR ENGINEER OR ENGINEER **BEGINS** 1 MILE 1 MILE SEE SEE BRIDGE LEFT LN MERGE RIGHT LN MERGE SITE 2 CONTRACTOR CONTRACTOR CLOSED CLOSED CONTRACTOR WORK XX/XX/XX RIGHT LEFT 114.1 SB OR ENGINEER OR ENGINEER **BEGINS** 1 MILE 1 MILE SEE RIGHT LN MERGE LEFT LN MERGE SITE 3 CONTRACTOR CONTRACTOR CONTRACTOR CLOSED LEFT CLOSED RIGHT 115.1 NB OR ENGINEER OR ENGINEER 1 MILE 1 MILE

FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\023301-AW.DWG LAYOUT NAME - ####

Emrick

PROJECT NO: 1166-07-61

PLOT DATE : 1/12/2015 7:07 AM

COUNTY: MARQUETTE

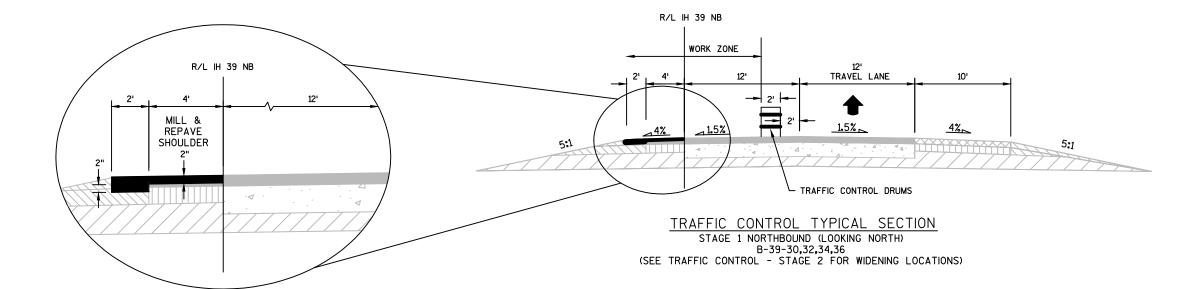
PLOT BY : CHRISTIANSON, ERIN MPLOT NAME :

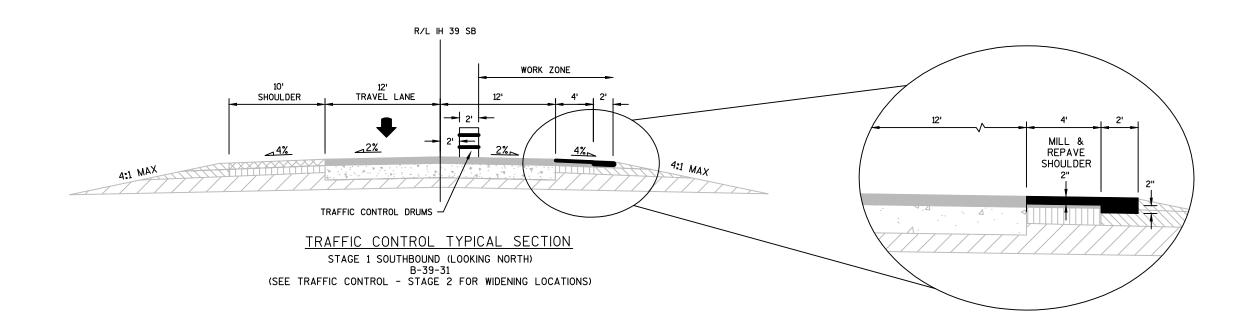
TRAFFIC CONTROL - PCMS OVERVIEW

PLOT SCALE : 1 IN:2 FT

Ε

SHEET



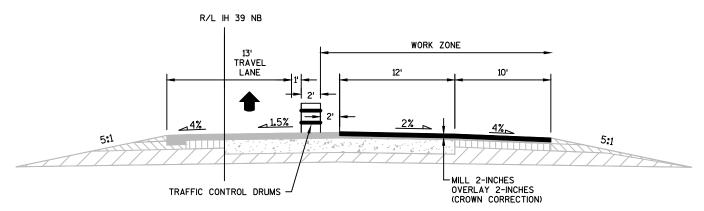


STAGE 1 NOTES:

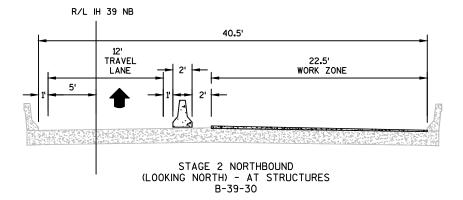
- 1. STAGE 1 (TRAFFIC IN OUTSIDE LANES)
  1.1 NORTHBOUND (ALL FOUR STRUCTURES-DRUMS ONLY)
  1.1.1 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- 1.1.2 MILL AND REPAVE INSIDE SHOULDER (SHOULDER WIDENING)
- 1.1.3 REMOVE INSIDE PAVEMENT MARKINGS AT STRUCTURES
- 1.1.4 INSTALL INSIDE TEMPORARY PAVEMENT MARKINGS

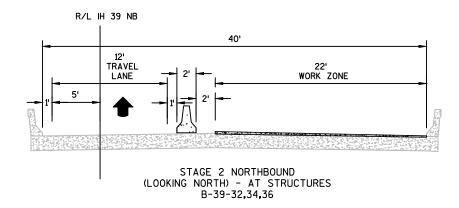
SEE CONSTRUCTION DETAIL FOR TRAFFIC LAYOUT AND FOR ADDITIONAL INFORMATION.

COUNTY: MARQUETTE Ε PROJECT NO: 1166-07-61 HWY: IH 39 TRAFFIC CONTROL - STAGE 1 SHEET FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026001-S1.DWG PLOT DATE: 12/30/2014 9:01 AM PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:10 FT



## TRAFFIC CONTROL TYPICAL SECTION STAGE 2 NORTHBOUND (LOOKING NORTH) B-39-30,32,34,36





#### STAGE 2 NOTES:

STAGE 2 (TRAFFIC IN INSIDE LANES)
NORTHBOUND (ALL FOUR STRUCTURES-DRUMS AND BARRIER WALL)

OUTSIDE LANE DECK OVERLAYS

2.1.2 OUTSIDE LANE BRIDGE APPROACHES

REMOVE OUTSIDE PAVEMENT MARKINGS

2.1.4 INSTALL OUTSIDE TEMPORARY PAVEMENT MARKINGS

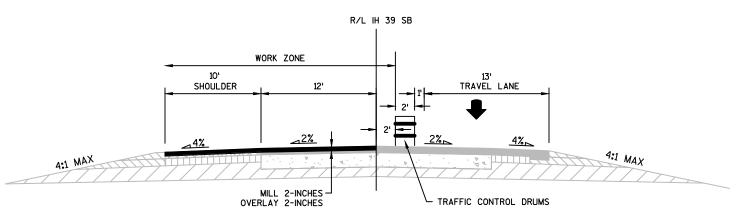
SOUTHBOUND (B-39-31)

2.2.1 REMOVE OUTSIDE PAVEMENT MARKINGS

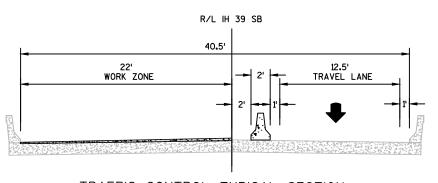
2.2.2 INSTALL OUTSIDE TEMPORARY PAVEMENT MARKINGS

SEE SDD TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER & TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE FOR ADDITIONAL INFORMATION.

PROJECT NO: 1166-07-61 COUNTY: MARQUETTE TRAFFIC CONTROL - STAGE 2 Ε HWY: IH 39 SHEET FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026101-S2.DWG PLOT DATE: 12/30/2014 9:08 AM PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42



TRAFFIC CONTROL TYPICAL SECTION STAGE 2 SOUTHBOUND (LOOKING NORTH) B-39-31



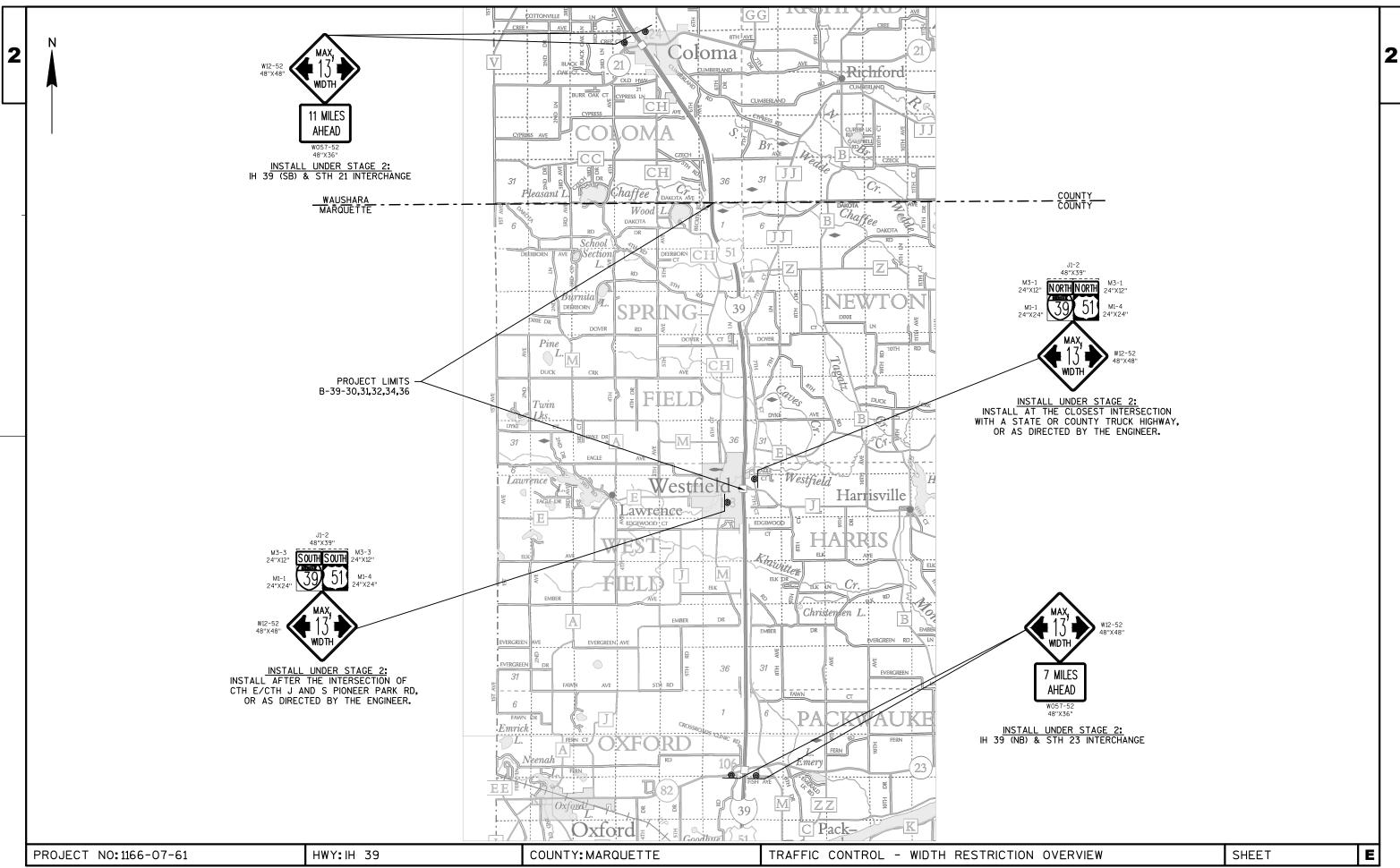
TRAFFIC CONTROL TYPICAL SECTION STAGE 2 SOUTHBOUND (LOOKING NORTH) - AT STRUCTURE B-39-31

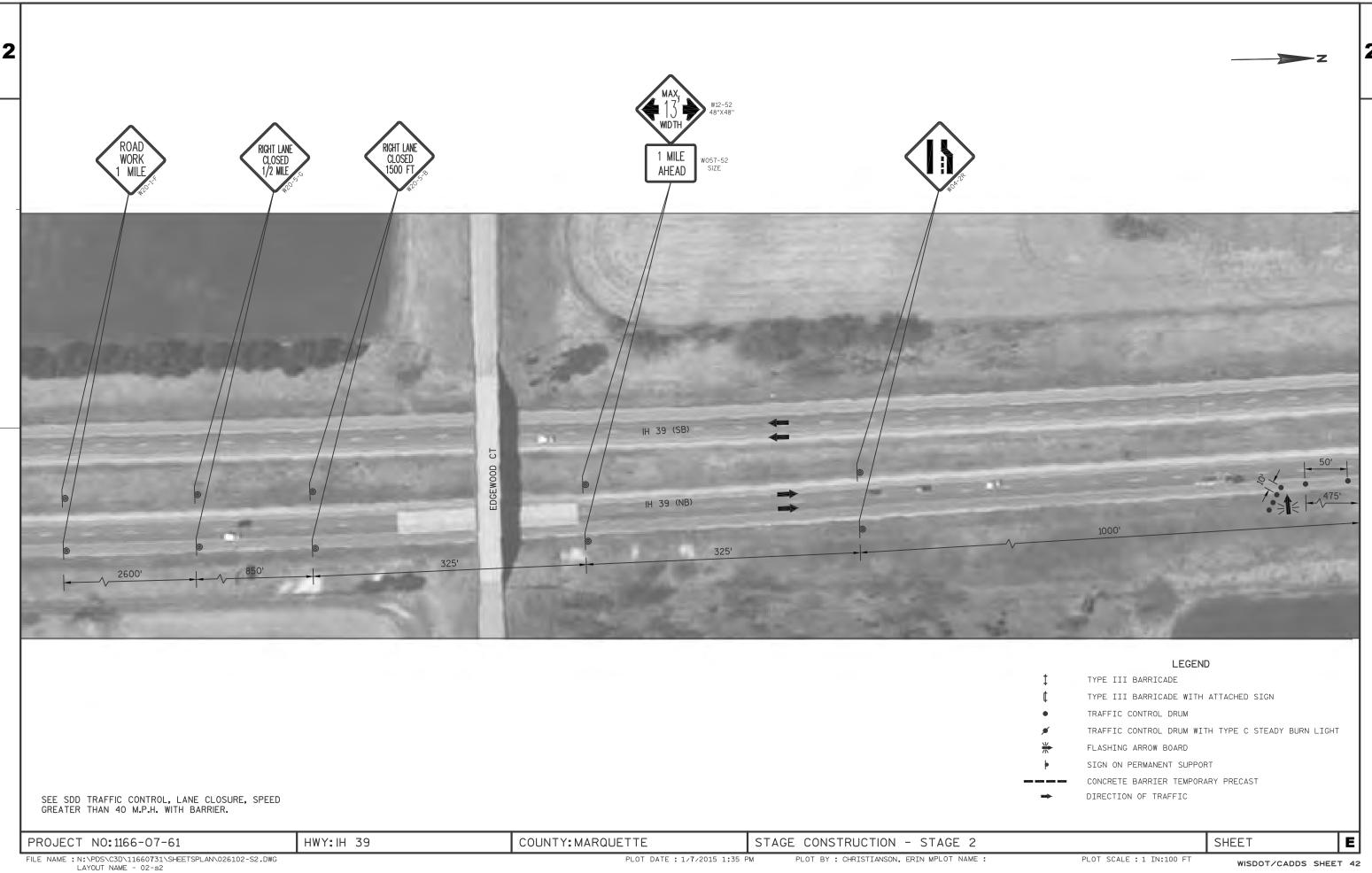
#### STAGE 2 NOTES:

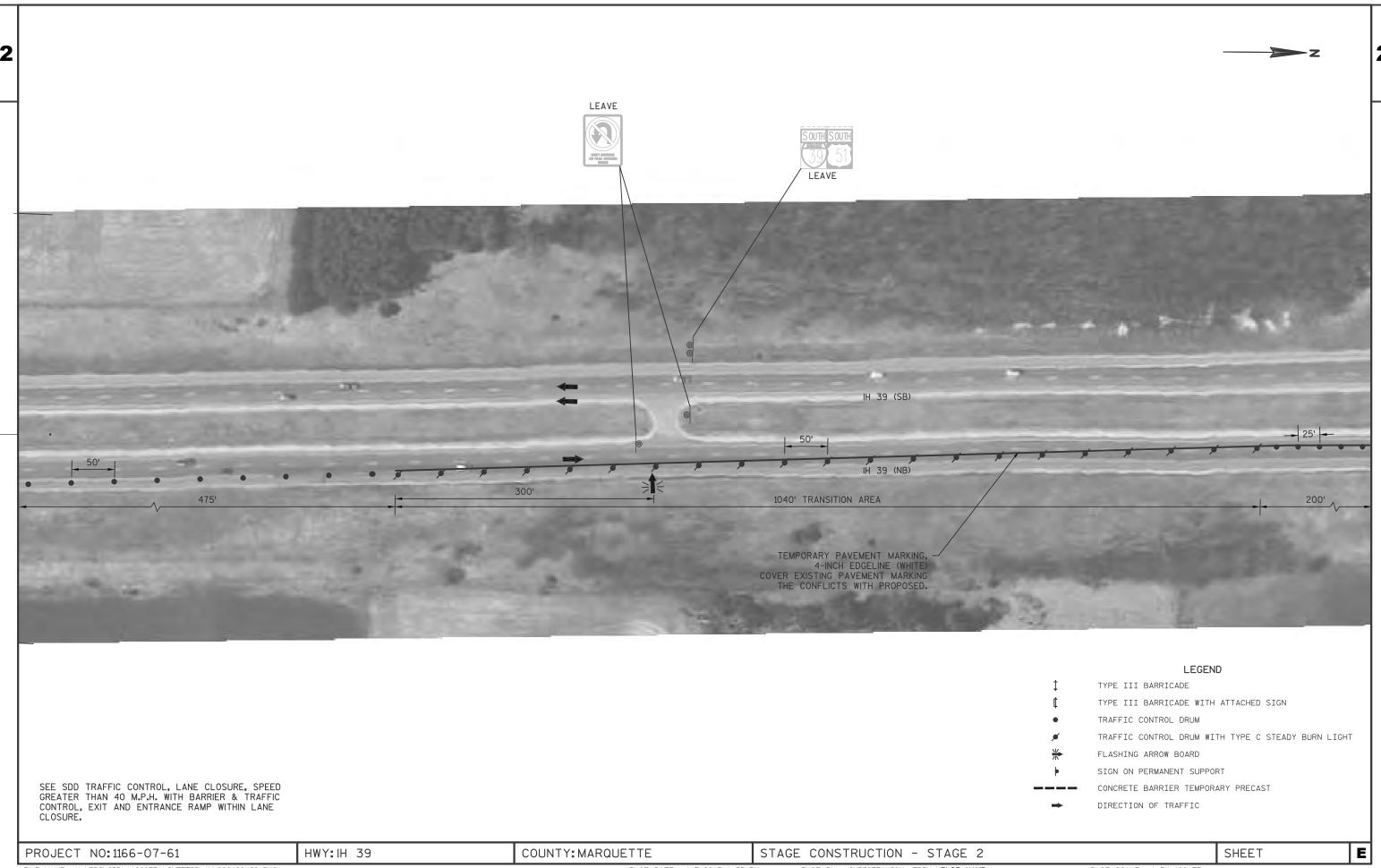
- STAGE 2 (TRAFFIC IN INSIDE LANES)
- NORTHBOUND (ALL FOUR STRUCTURES-DRUMS AND BARRIER WALL)
- 2.1.1 OUTSIDE LANE DECK OVERLAYS
- OUTSIDE LANE BRIDGE APPROACHES
- REMOVE OUTSIDE PAVEMENT MARKINGS
- 2.1.4 INSTALL OUTSIDE TEMPORARY PAVEMENT MARKINGS
- SOUTHBOUND (B-39-31)
- 2.2.1 REMOVE OUTSIDE PAVEMENT MARKINGS
  2.2.2 INSTALL OUTSIDE TEMPORARY PAVEMENT MARKINGS

SEE SDD TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER & TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE FOR ADDITIONAL INFORMATION.

COUNTY: MARQUETTE TRAFFIC CONTROL - STAGE 2 Ε PROJECT NO: 1166-07-61 HWY: IH 39 SHEET





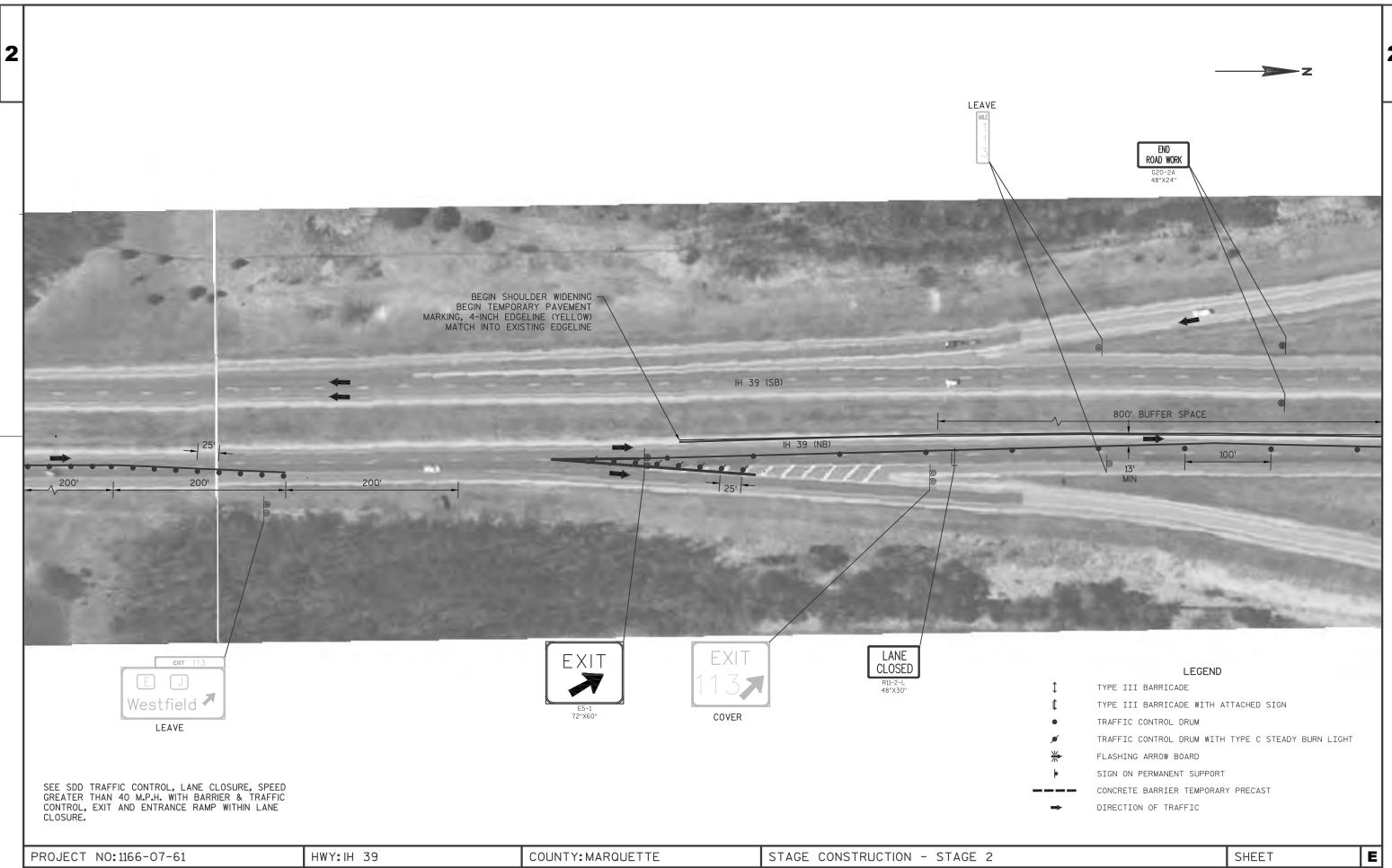


FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG
LAYOUT NAME - 03-s2

FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG
LAYOUT NAME - 03-s2

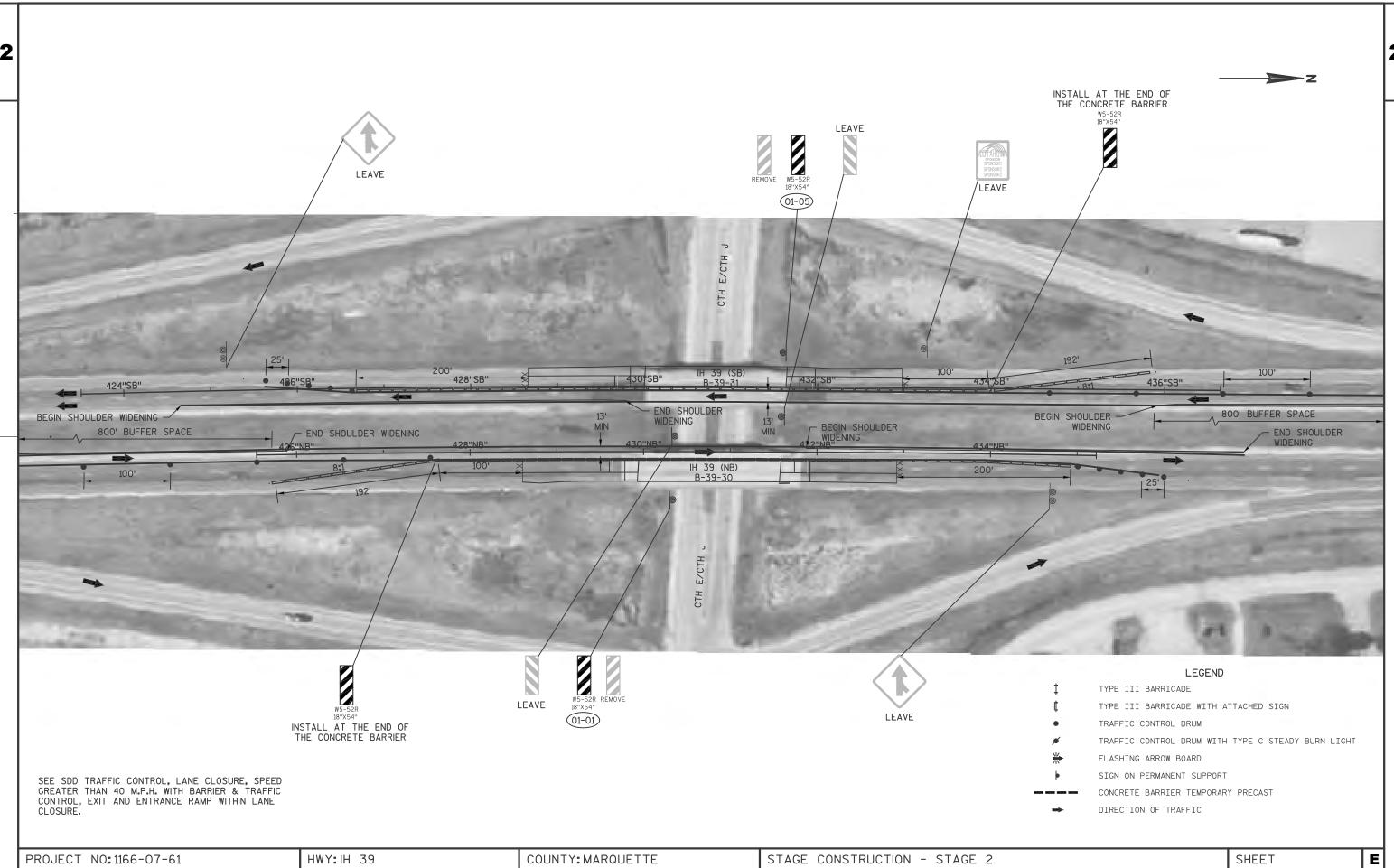
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LAYOUT NAME - 03-s2

WISDOT/CADDS SHEET 42

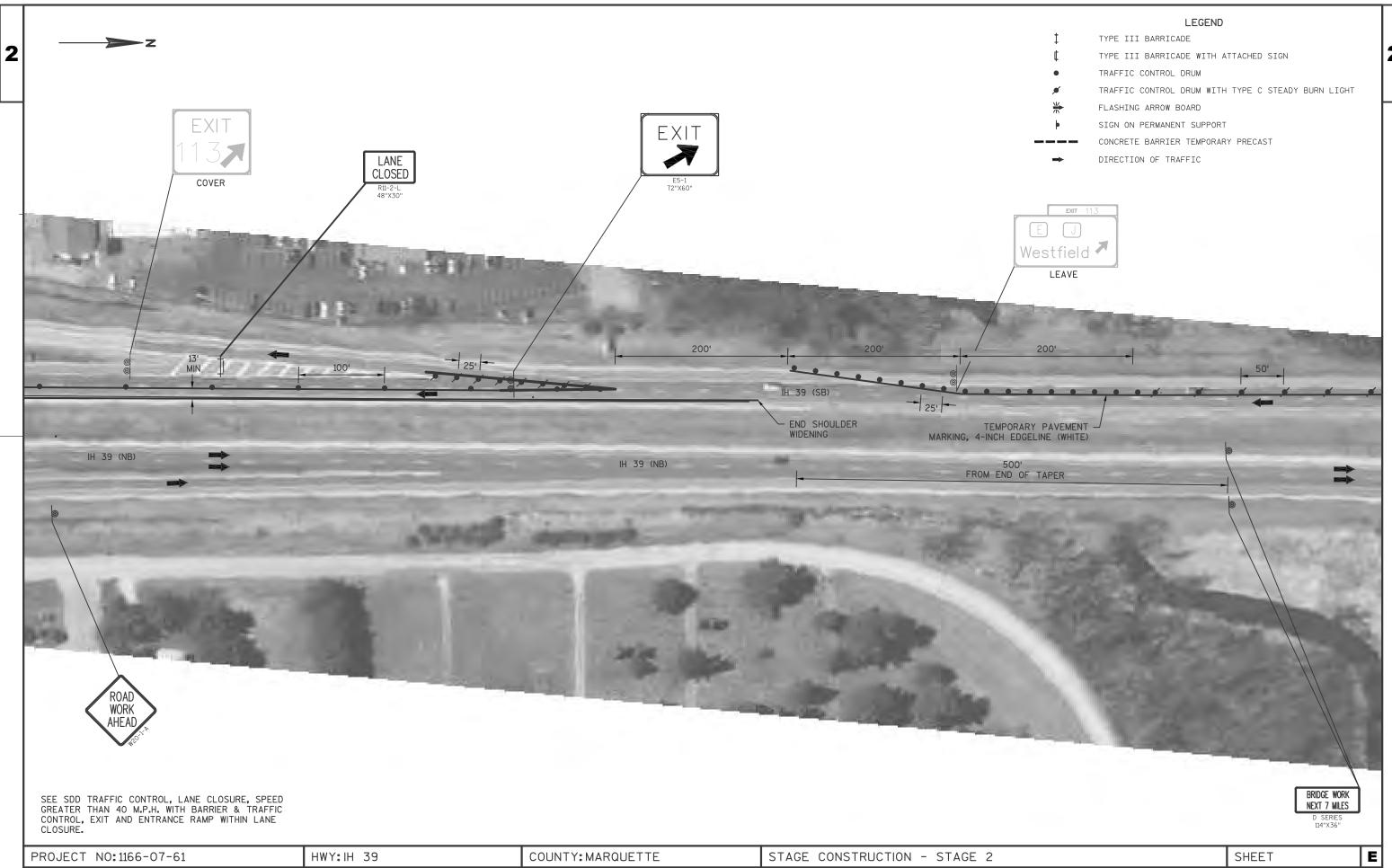


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LAYOUT NAME - 04-s2

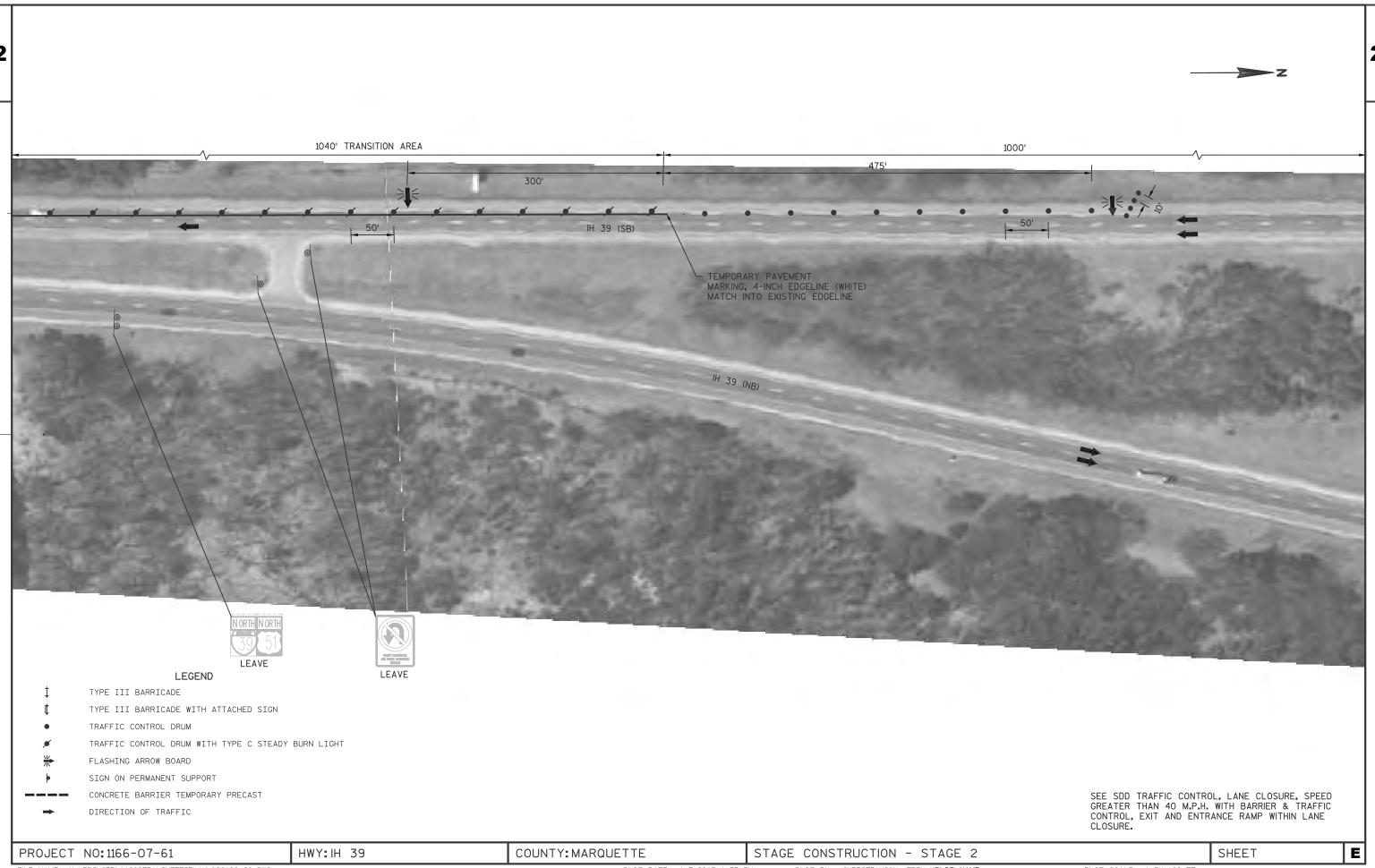
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LAYOUT NAME - 04-s2

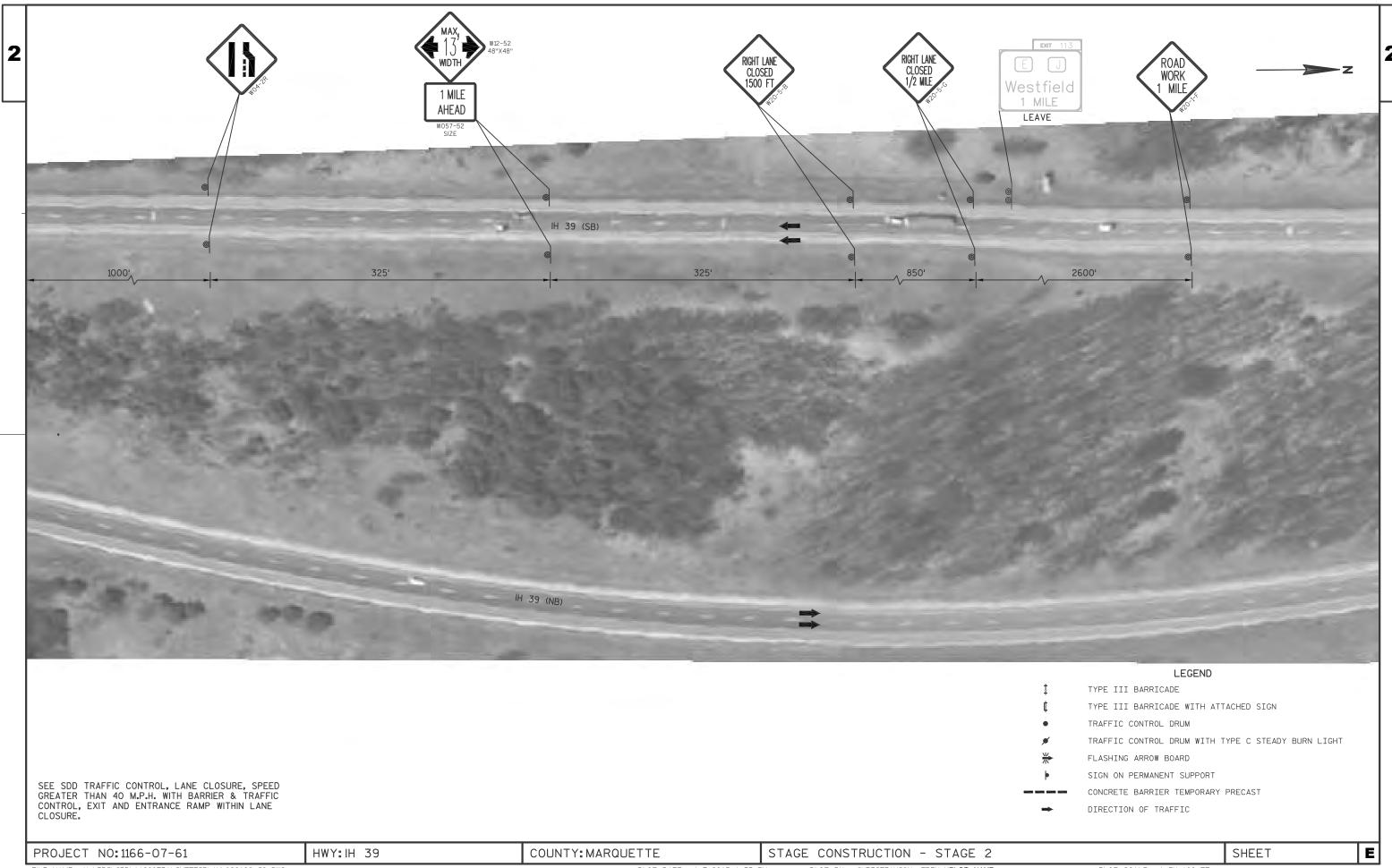


FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG LAYOUT NAME - 05-s2 PLOT DATE: 1/7/2015 1:35 PM PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:100 FT



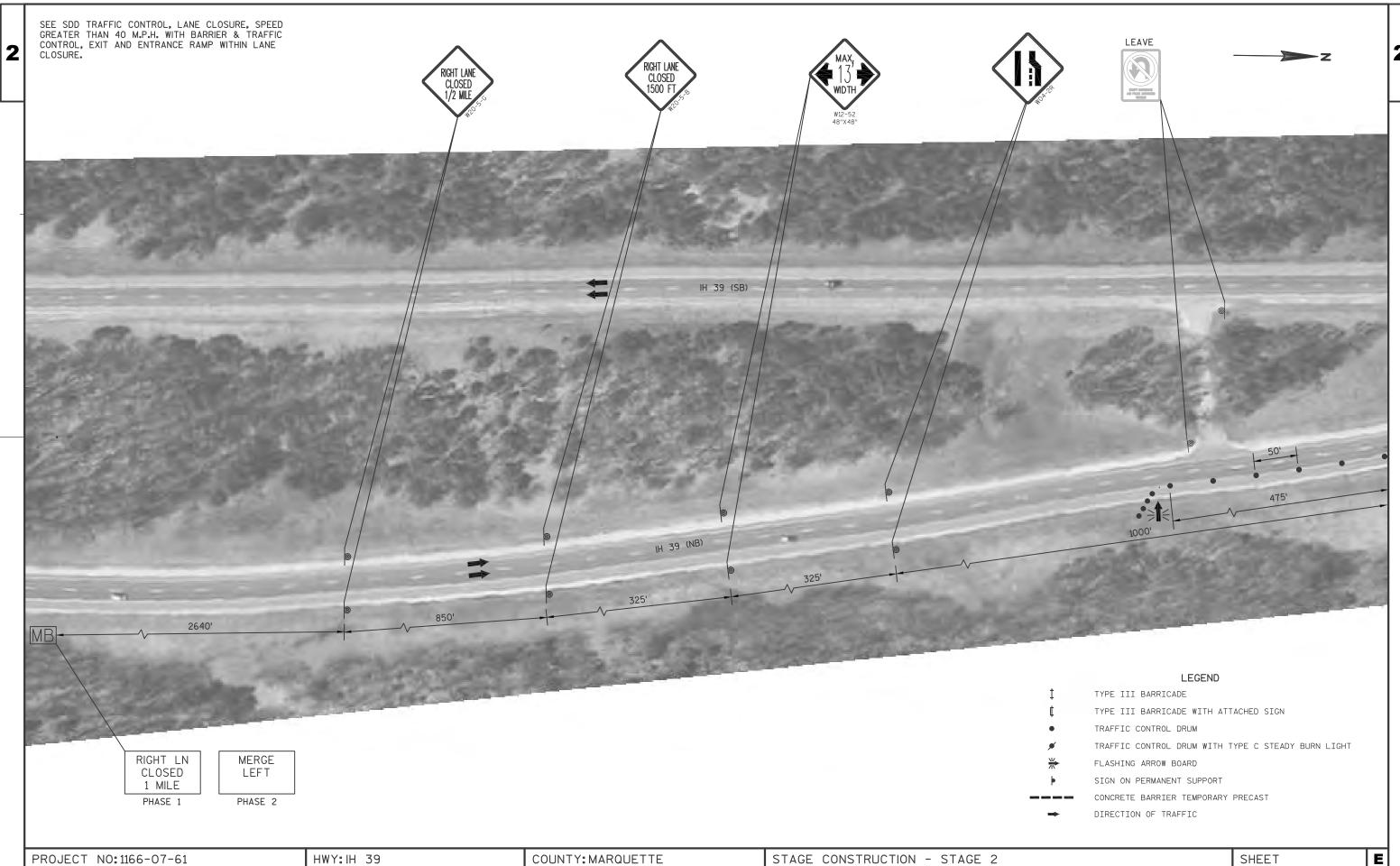
FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT SCALE: 1 IN:100 FT AND CADDS SHEET 42





FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG
LAYOUT NAME - 08-s2

PLOT DATE : 1/7/2015 1:35 PM
PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG
LAYOUT NAME - 09-s2

PLOT DATE: 1/7/2015 1:35 PM
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42



FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG
LAYOUT NAME - 10-s2

PLOT DATE: 1/7/2015 1:35 PM
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:
WISDOT/CADDS SHEET 42

IH 39 (SB) END SHOULDER WIDENING -END TEMPORARY PAVEMENT MARKING 4-INCH EDGELINE (YELLOW) MATCH INTO EXISTING EDGELINE BEGIN SHOULDER WIDENING - END SHOULDER WIDENING IH 39 (NB) B-39-32 800' BUFFER SPACE W5-52R REMOVE 18"X54" LEGEND INSTALL AT THE END OF THE CONCRETE BARRIER LEAVE TYPE III BARRICADE 01-02 TYPE III BARRICADE WITH ATTACHED SIGN TRAFFIC CONTROL DRUM TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT FLASHING ARROW BOARD SIGN ON PERMANENT SUPPORT SEE SDD TRAFFIC CONTROL, LANE CLOSURE, SPEED GREATER THAN 40 M.P.H. WITH BARRIER & TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CONCRETE BARRIER TEMPORARY PRECAST DIRECTION OF TRAFFIC CLOSURE. PROJECT NO: 1166-07-61 HWY:IH 39 COUNTY: MARQUETTE STAGE CONSTRUCTION - STAGE 2 E SHEET

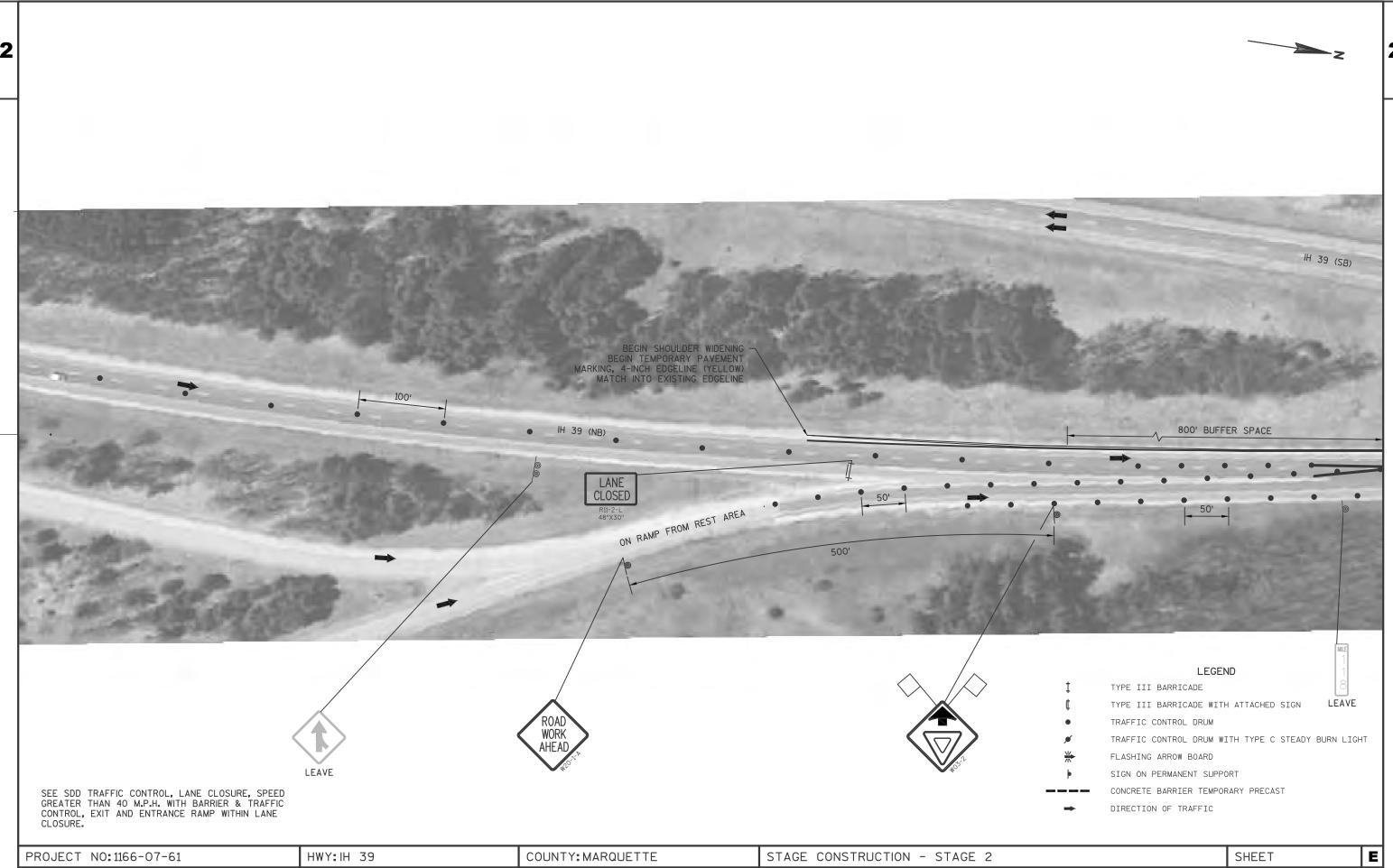
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LAYOUT NAME - 11-s2

PLOT DATE : 1/7/2015 1:35 PM
PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG LAYOUT NAME - 12-s2

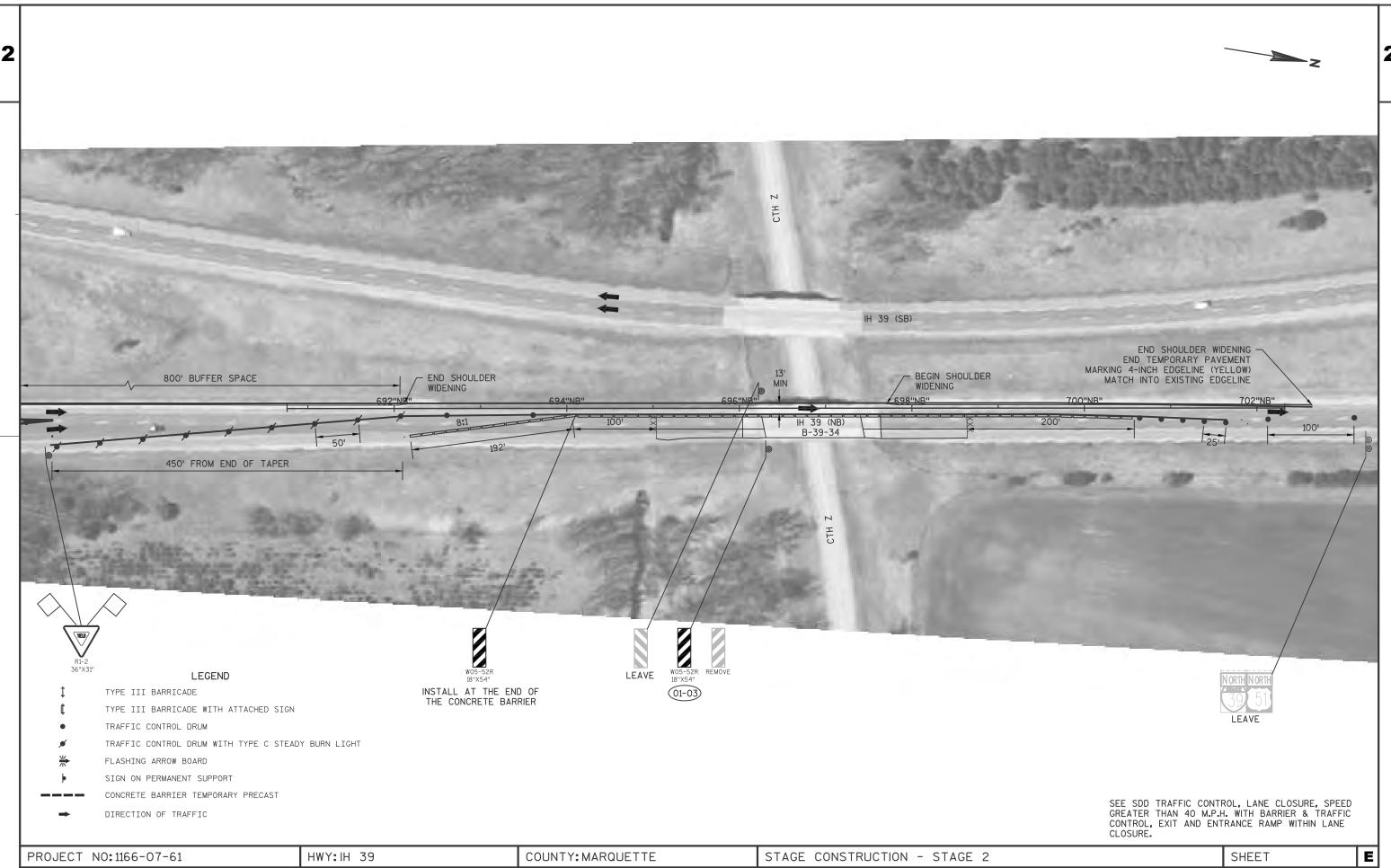
PLOT DATE: 1/7/2015 1:35 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:



FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG
LAYOUT NAME - 13-s2

PLOT DATE: 1/7/2015 1:35 PM
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:

WISDOT/CADDS SHEET 42



FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG LAYOUT NAME - 14-s2 PLOT DATE: 1/7/2015 1:35 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:

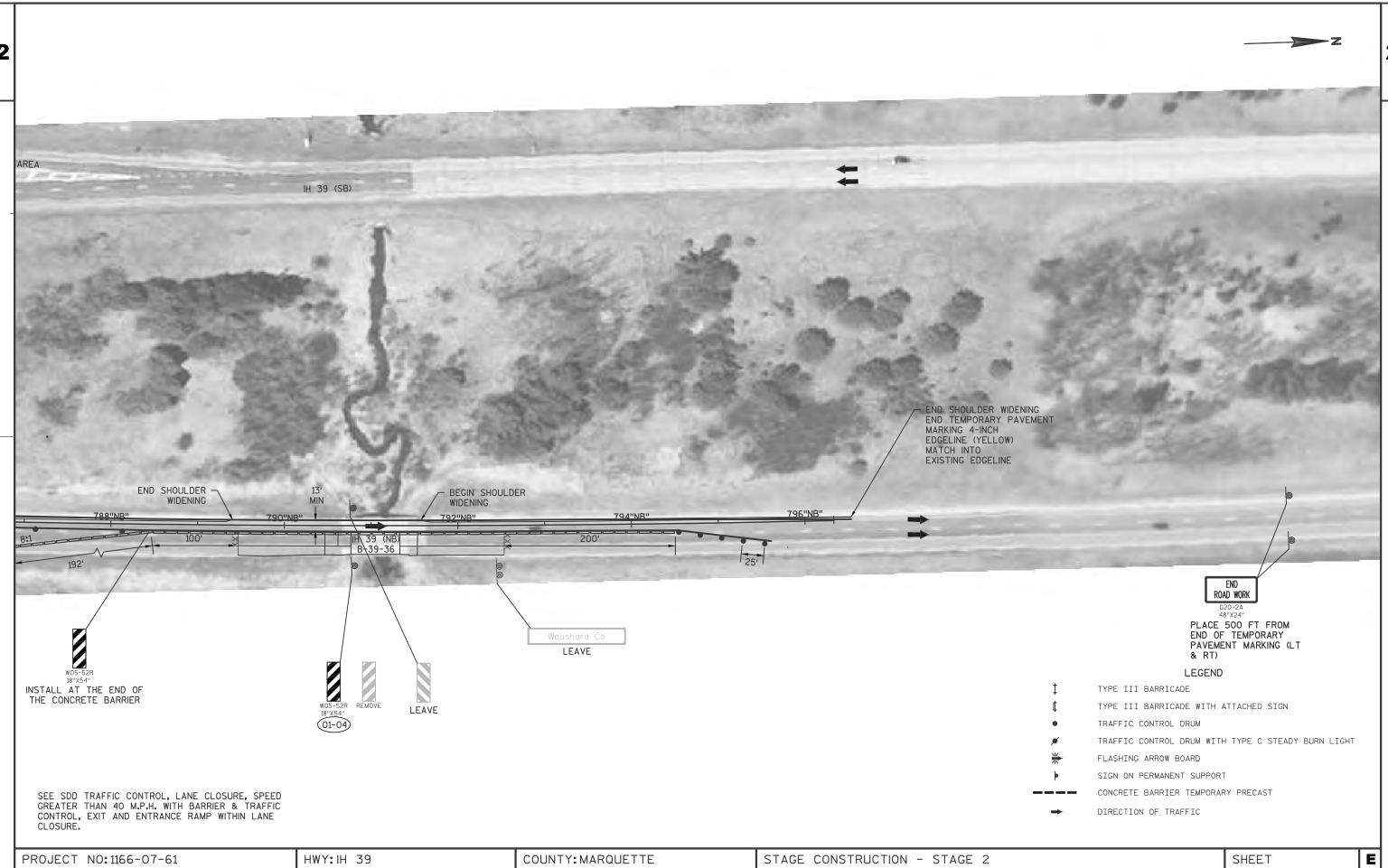
PLOT SCALE : 1 IN:100 FT



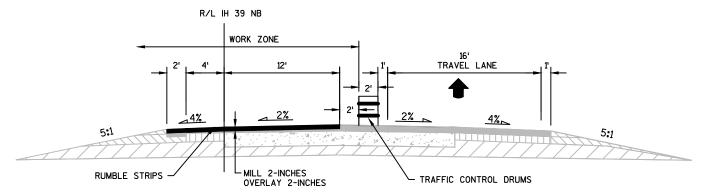
FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG
LAYOUT NAME - 15-s2

PLOT DATE: 1/7/2015 1:35 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:

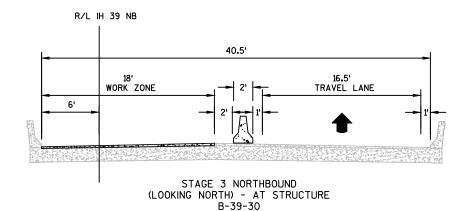
PLOT SCALE : 1 IN:100 FT

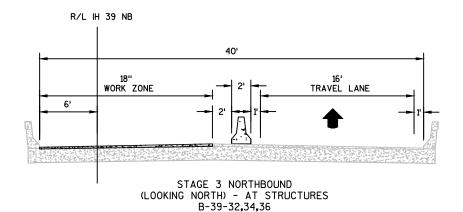


FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026102-S2.DWG LAYOUT NAME - 16-s2 PLOT DATE : 1/7/2015 1:35 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT SCALE : 1 IN:100 FT WISDOT/CADDS SHEET 42



TRAFFIC CONTROL TYPICAL SECTION STAGE 3 NORTHBOUND (LOOKING NORTH) B-39-30,32,34,36





#### STAGE 3 NOTES:

STAGE 3 (TRAFFIC IN OUTSIDE LANES)
NORTHBOUND (ALL FOUR STRUCTURES-DRUMS AND BARRIER WALL)

INSIDE LANE DECK OVERLAYS

INSIDE LANE BRIDGE APPROACHES

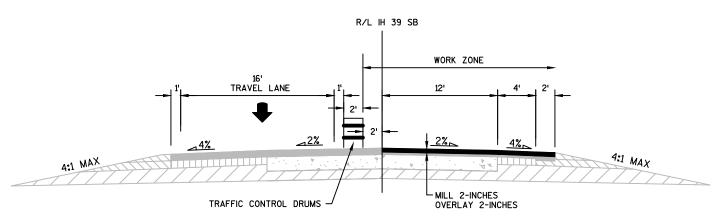
SOUTHBOUND (B-39-31)

3.2.1 REMOVE INSIDE LANE TEMPORARY WIDENING
3.2.2 REMOVE OUTSIDE PAVEMENT MARKINGS

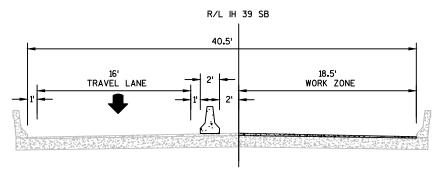
3.2.3 INSTALL OUTSIDE TEMPORARY PAVEMENT MARKINGS

SEE SDD TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER & TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE FOR ADDITIONAL INFORMATION.

PROJECT NO: 1166-07-61 COUNTY: MARQUETTE Ε HWY: IH 39 TRAFFIC CONTROL - STAGE 3 SHEET FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026201-S3.DWG WISDOT/CADDS SHEET 42



#### TRAFFIC CONTROL TYPICAL SECTION STAGE 3 SOUTHBOUND (LOOKING NORTH) B-39-31



TRAFFIC CONTROL TYPICAL SECTION STAGE 3 SOUTHBOUND (LOOKING NORTH) - AT STRUCTURE B-39-31

STAGE 3 NOTES:

3. 3.1 3.1.1 STAGE 3 (TRAFFIC IN OUTSIDE LANES)

NORTHBOUND (ALL FOUR STRUCTURES-DRUMS AND BARRIER WALL)

INSIDE LANE DECK OVERLAYS

3.1.2 INSIDE LANE BRIDGE APPROACHES

SOUTHBOUND (B-39-31)

REMOVE INSIDE LANE TEMPORARY WIDENING

3.2.2 REMOVE OUTSIDE PAVEMENT MARKINGS

3.2.3 INSTALL OUTSIDE TEMPORARY PAVEMENT MARKINGS

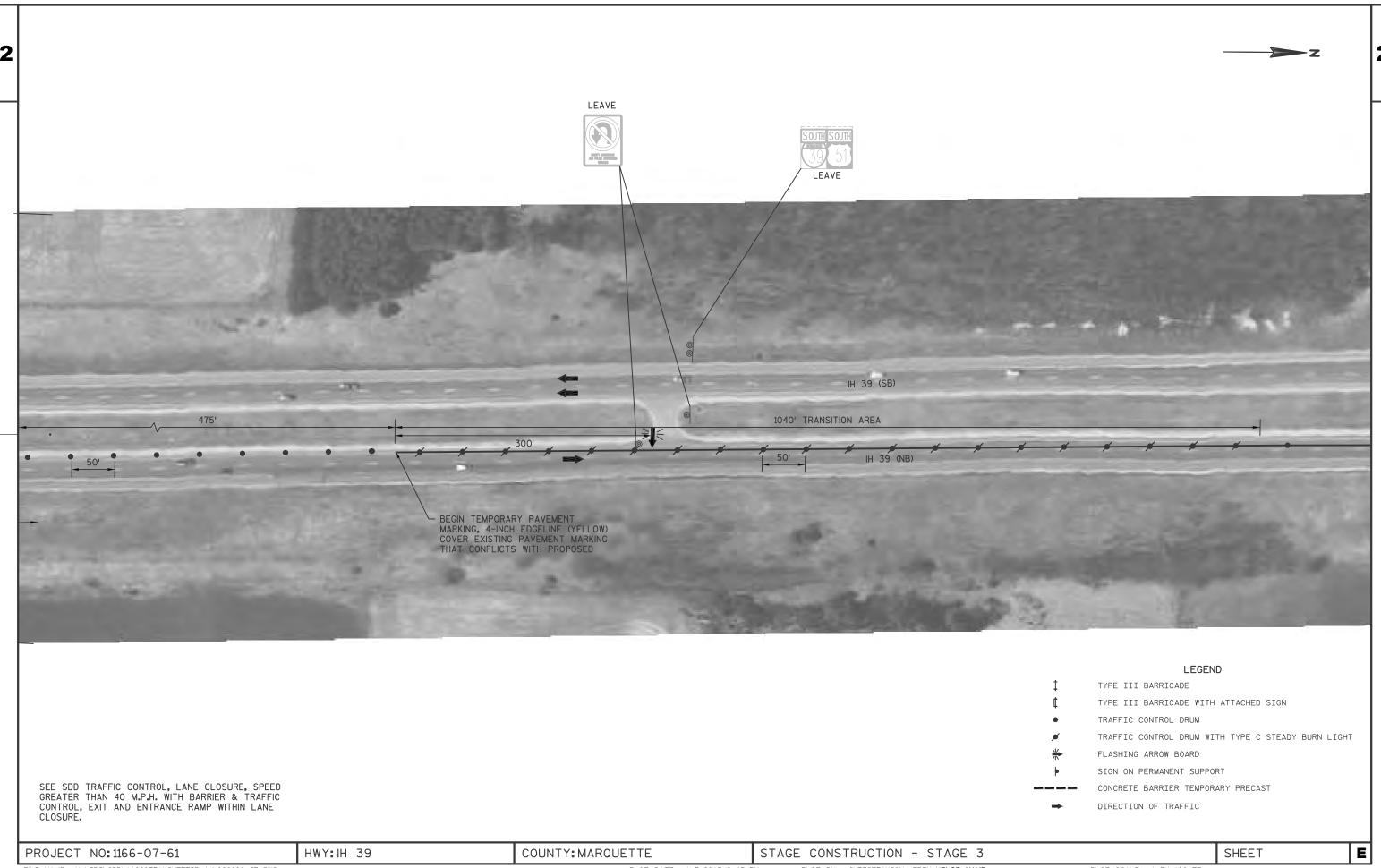
SEE SDD TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER & TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE FOR ADDITIONAL INFORMATION.

PROJECT NO: 1166-07-61 COUNTY: MARQUETTE Ε HWY: IH 39 TRAFFIC CONTROL - STAGE 3 SHEET FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026201-S3.DWG PLOT DATE: 12/30/2014 9:32 AM PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

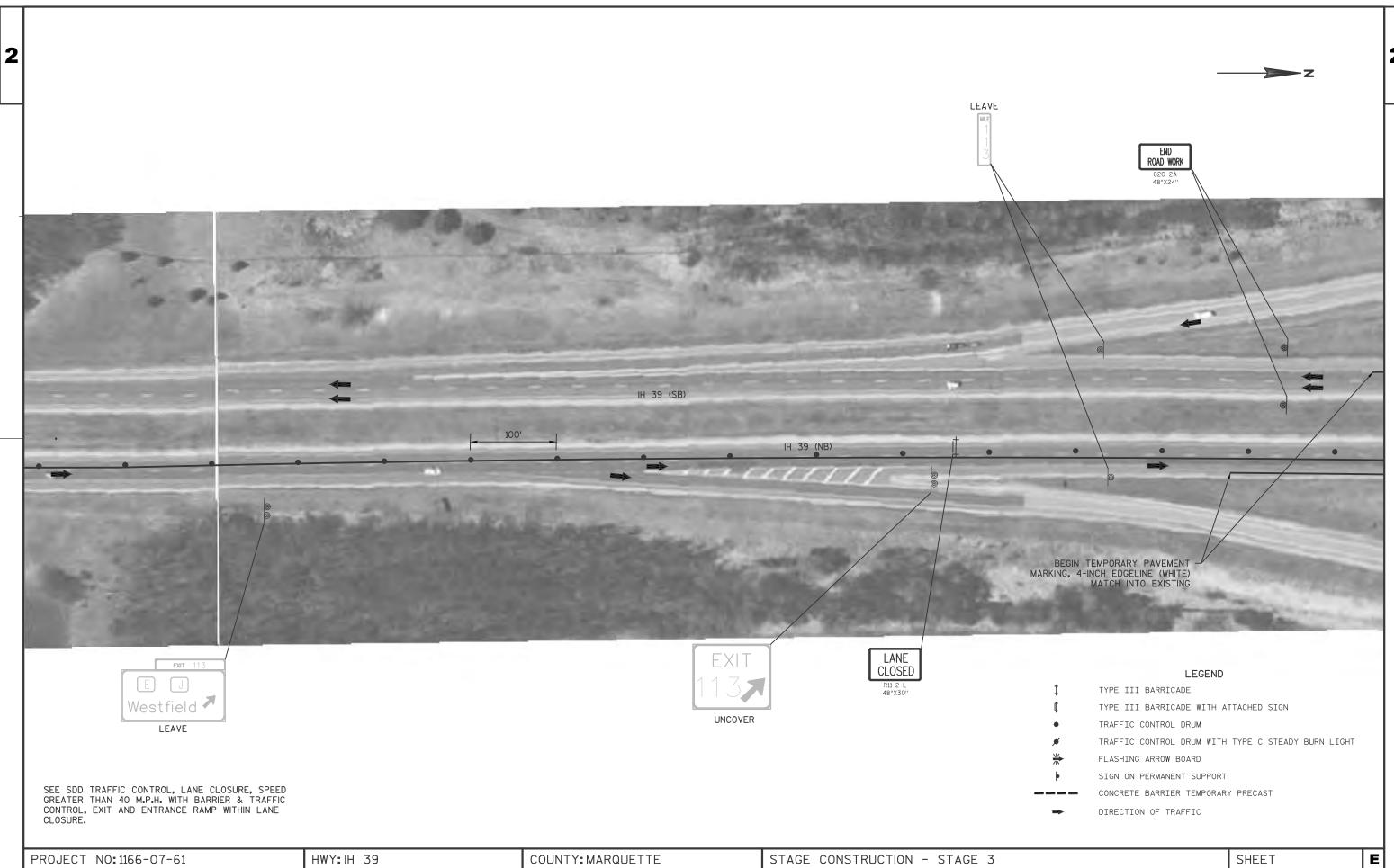
IH 39 (SB) EDGEWOOD CT IH 39 (NB) 1000' LEGEND TYPE III BARRICADE TYPE III BARRICADE WITH ATTACHED SIGN TRAFFIC CONTROL DRUM TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT FLASHING ARROW BOARD SIGN ON PERMANENT SUPPORT CONCRETE BARRIER TEMPORARY PRECAST SEE SDD TRAFFIC CONTROL, LANE CLOSURE, SPEED GREATER THAN 40 M.P.H. WITH BARRIER. DIRECTION OF TRAFFIC COUNTY: MARQUETTE PROJECT NO:1166-07-61 HWY:IH 39 STAGE CONSTRUCTION - STAGE 3 SHEET E FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG LAYOUT NAME - 02-s3 PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT SCALE : 1 IN:100 FT

PLOT DATE : 1/7/2015 2:45 PM

WISDOT/CADDS SHEET 42



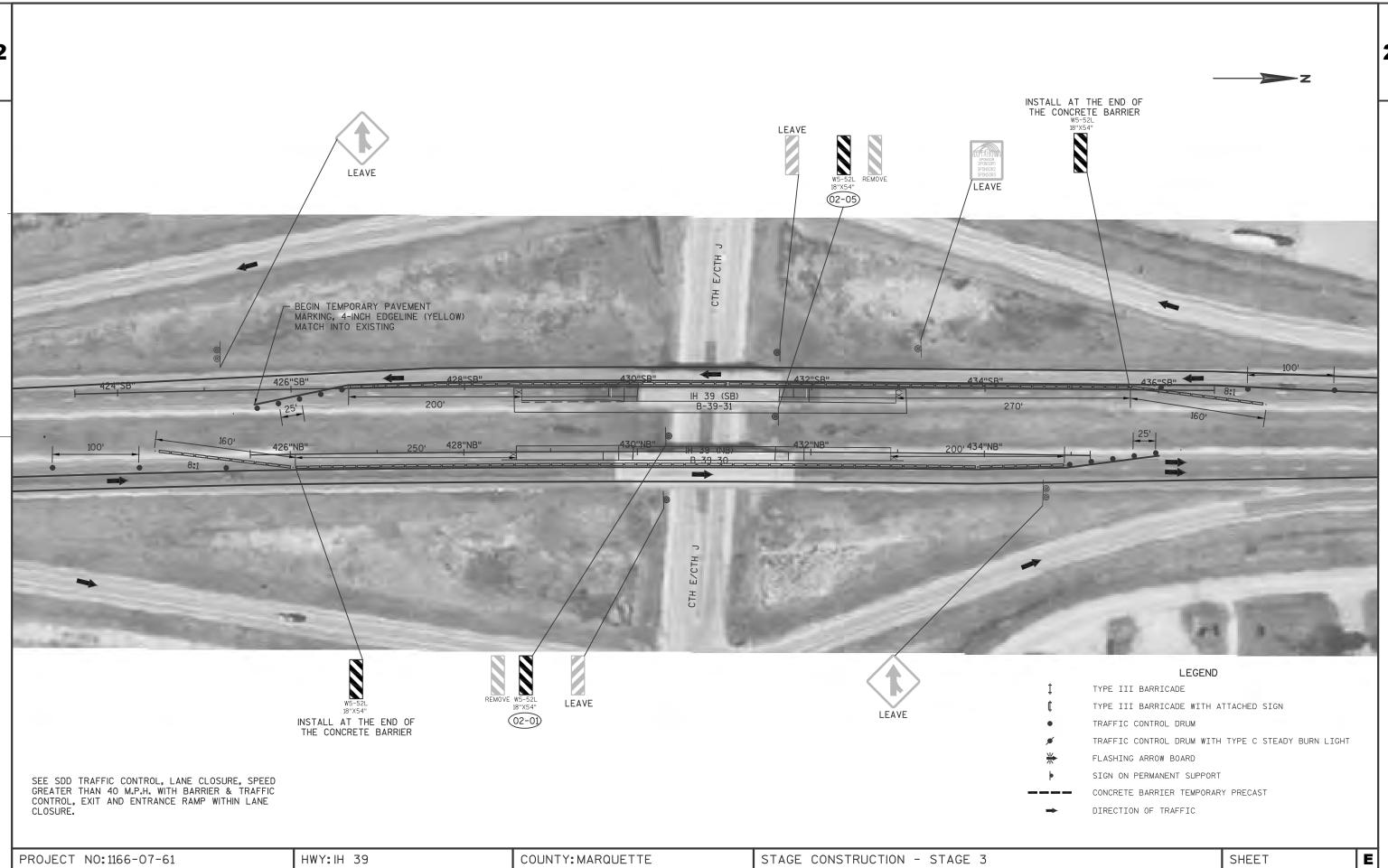
FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG LAYOUT NAME - 03-s3



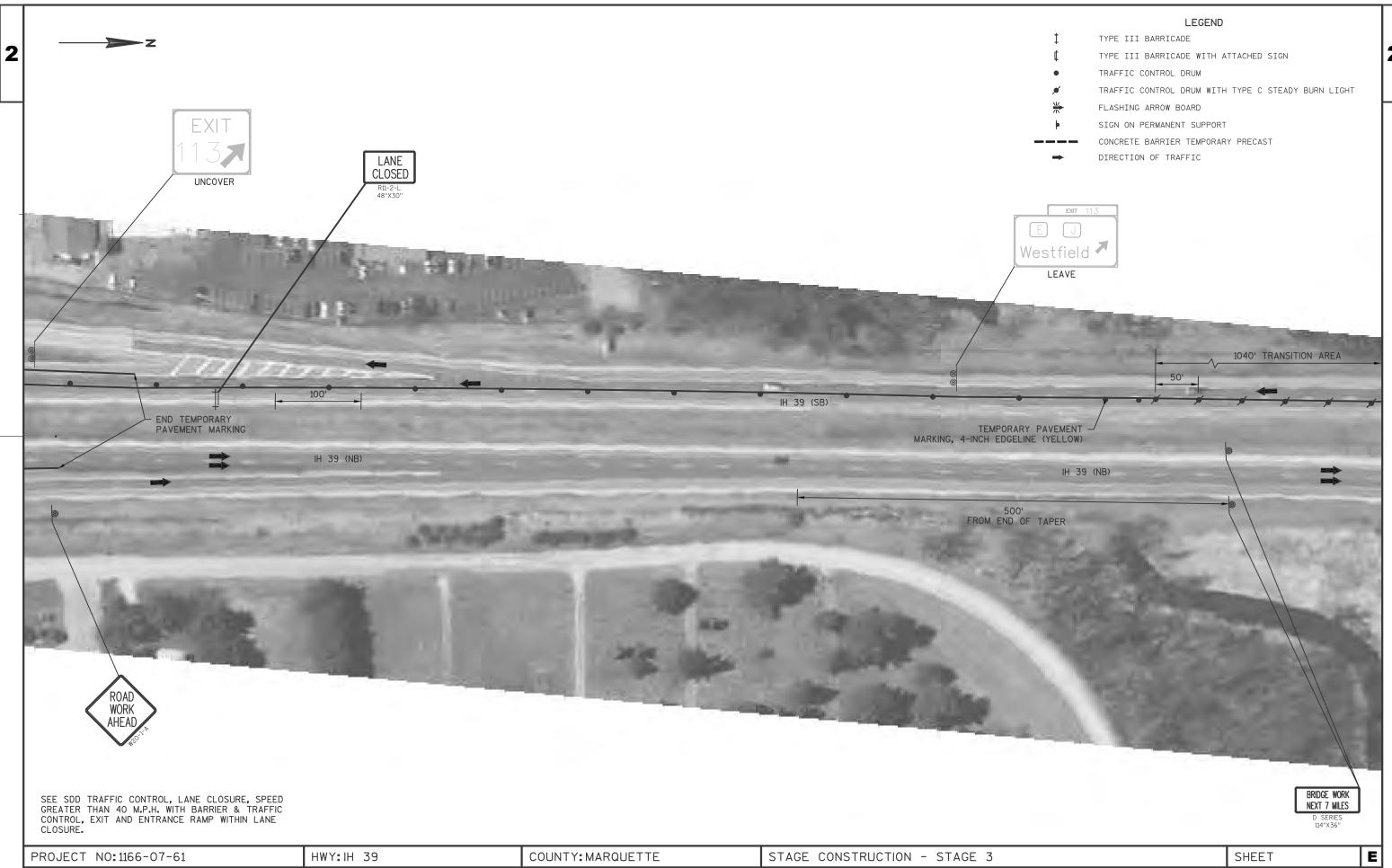
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LAYOUT NAME - 04-s3

PLOT DATE: 1/7/2015 2:45 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:

WISDOT/CADDS SHEET 42

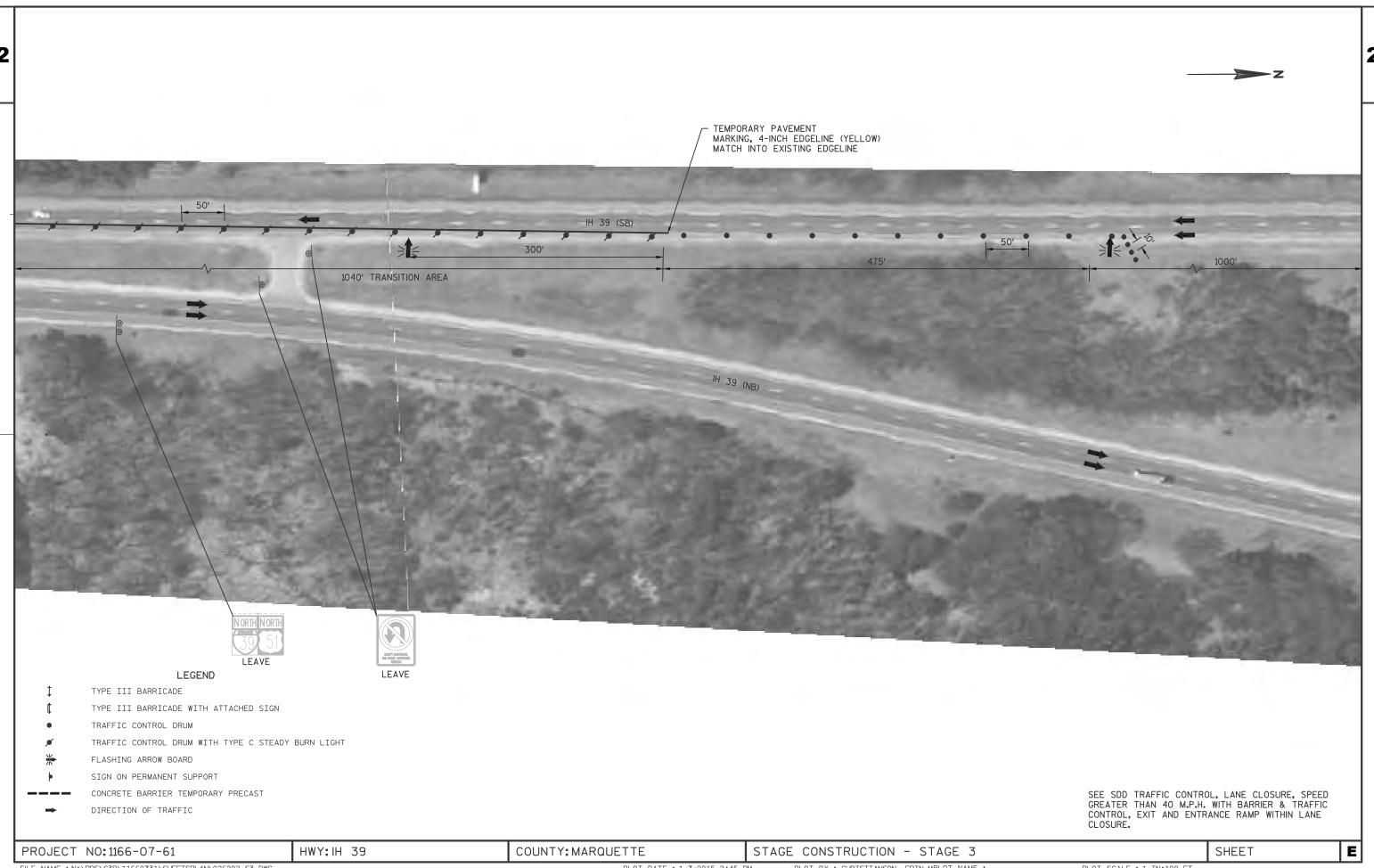


FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG PLOT DATE: 1/7/2015 2:45 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: PLOT SCALE: 1 IN:100 FT ASDOT/CADDS SHEET 42



FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG
LAYOUT NAME - 06-s3

PLOT DATE: 1/7/2015 2:45 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME: WISDOT/CADDS SHEET 42

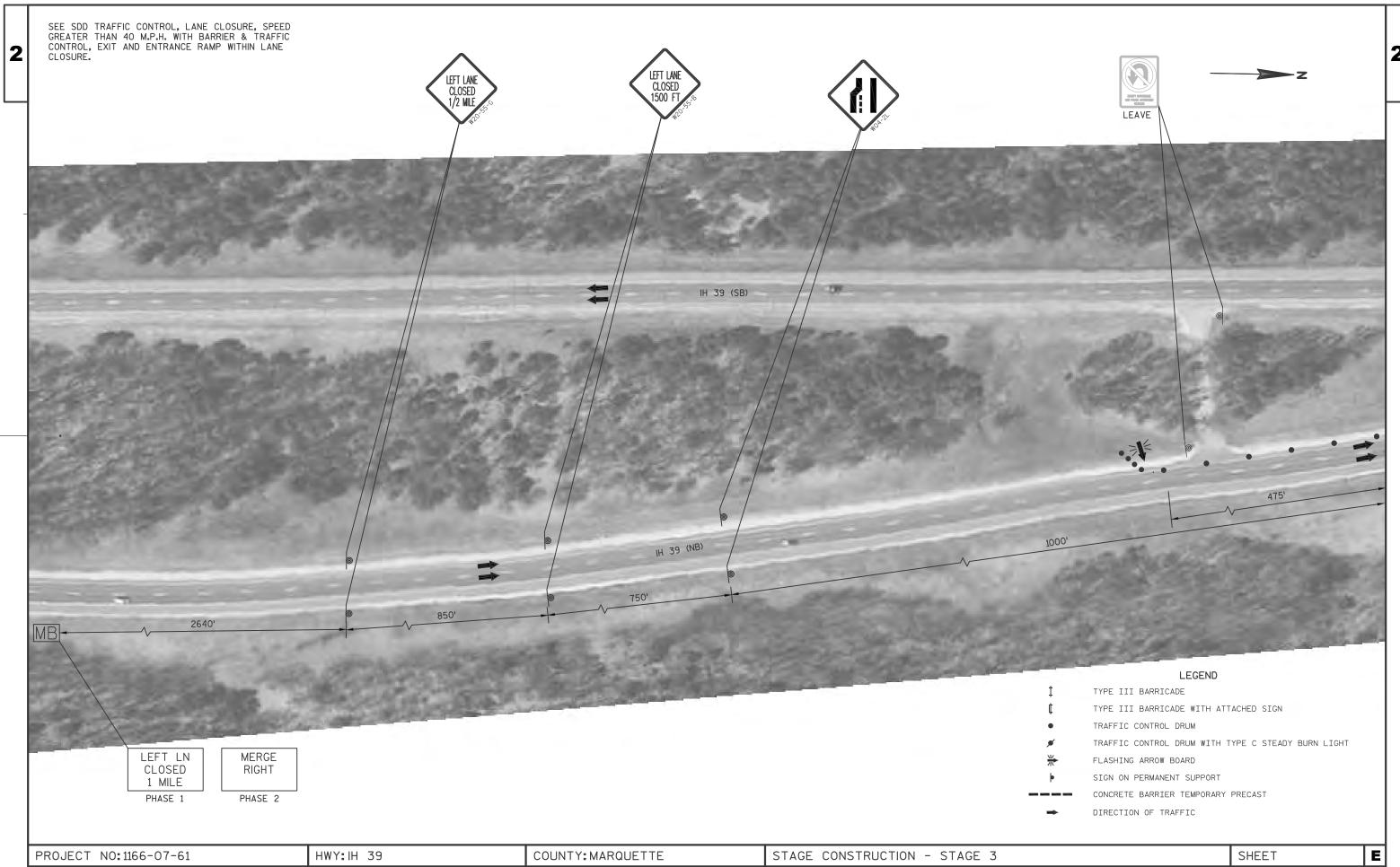


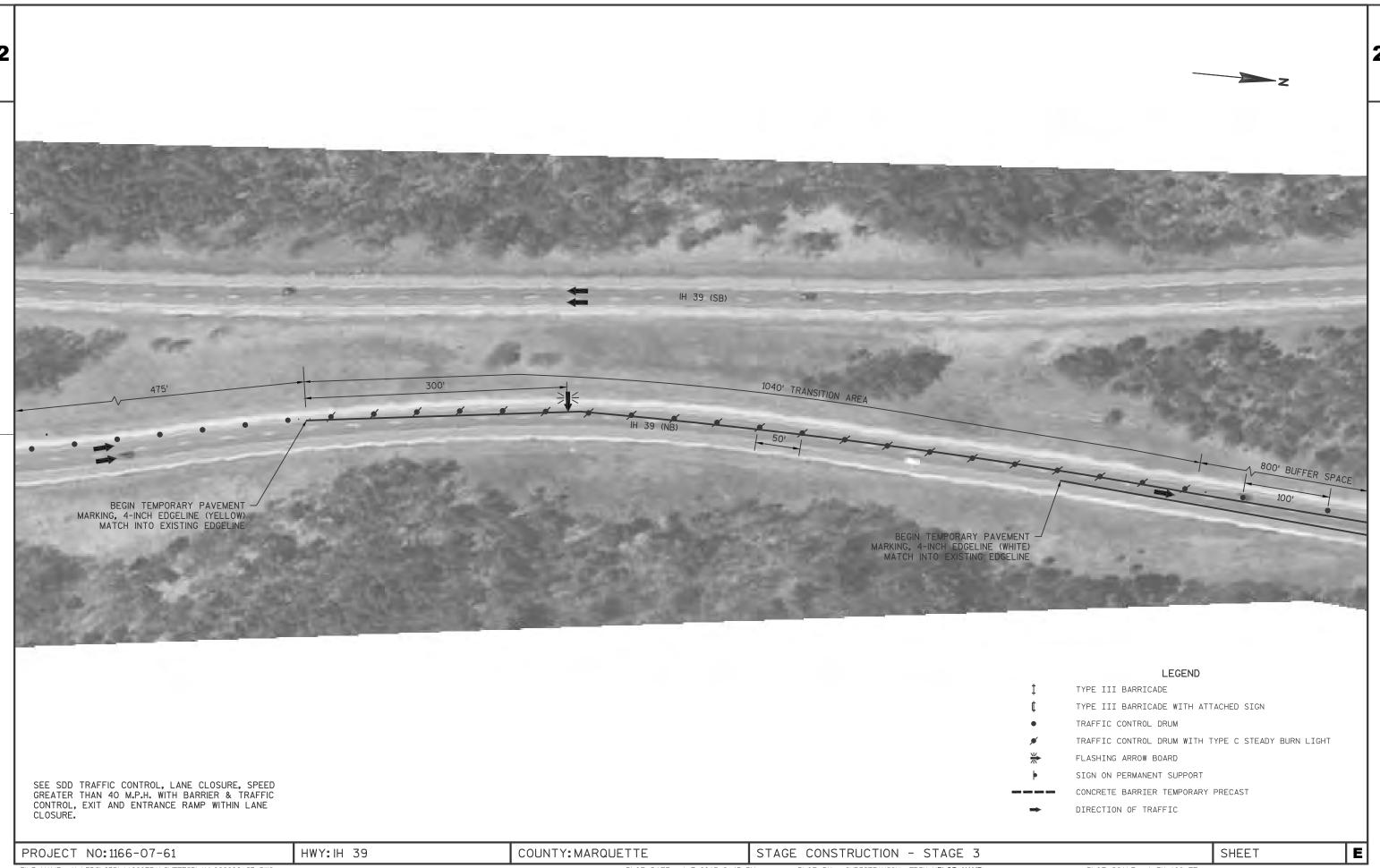


FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG
LAYOUT NAME - 08-s3

PLOT DATE: 1/7/2015 2:45 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:

WISDOT/CADDS SHEET 42





FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG LAYOUT NAME - 10-s3 PLOT DATE : 1/7/2015 2:45 PM PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:100 FT

IH 39 (SB) TEMPORARY PAVEMENT -MARKING 4-INCH EDGELINE (YELLOW) MATCH INTO EXISTING EDGELINE 800' BUFFER SPACE 100' 606 'NB" IH 39 (NB) LEGEND

SEE SDD TRAFFIC CONTROL, LANE CLOSURE, SPEED GREATER THAN 40 M.P.H. WITH BARRIER & TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.

HWY:IH 39

COUNTY: MARQUETTE

STAGE CONSTRUCTION - STAGE 3

LEAVE

SHEET PLOT SCALE : 1 IN:100 FT

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

TYPE III BARRICADE

TRAFFIC CONTROL DRUM

FLASHING ARROW BOARD SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

TYPE III BARRICADE WITH ATTACHED SIGN

CONCRETE BARRIER TEMPORARY PRECAST

PROJECT NO: 1166-07-61

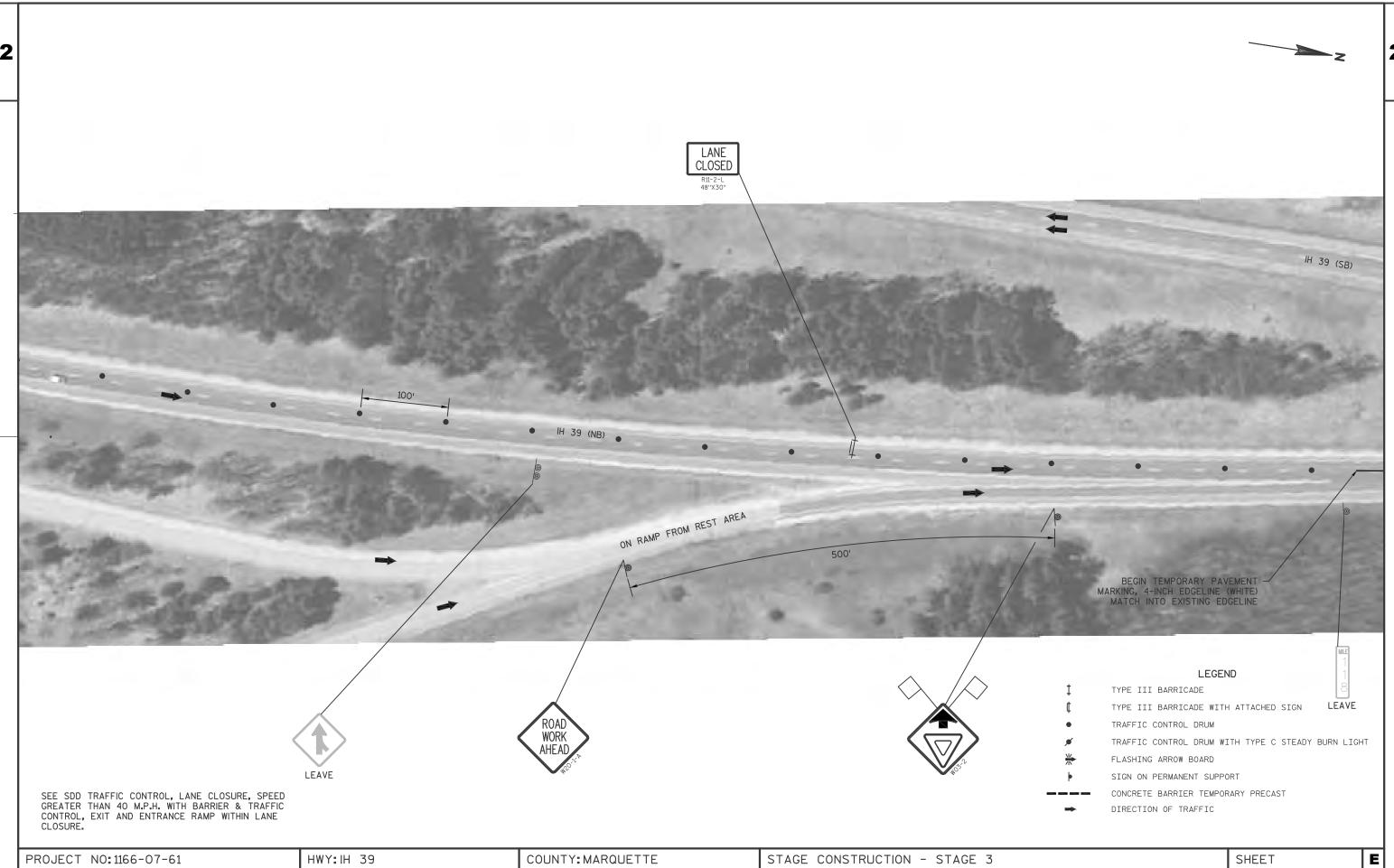
INSTALL AT THE END OF THE CONCRETE BARRIER

E



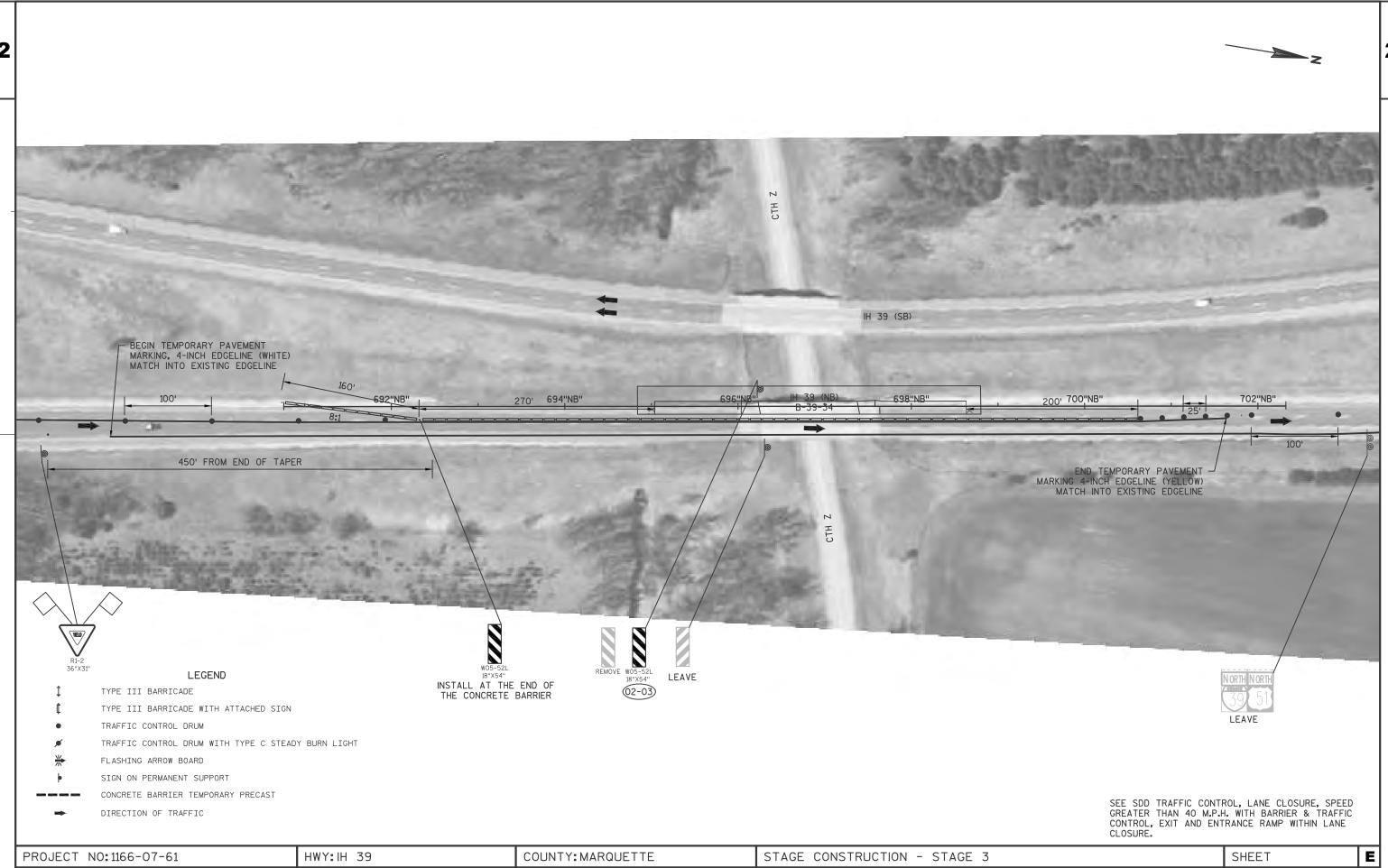
FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG LAYOUT NAME - 12-s3

PLOT DATE: 1/7/2015 2:45 PM PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:



FILE NAME: N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG
LAYOUT NAME - 13-s3

PLOT DATE: 1/7/2015 2:45 PM
PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:
WISDOT/CADDS SHEET 42



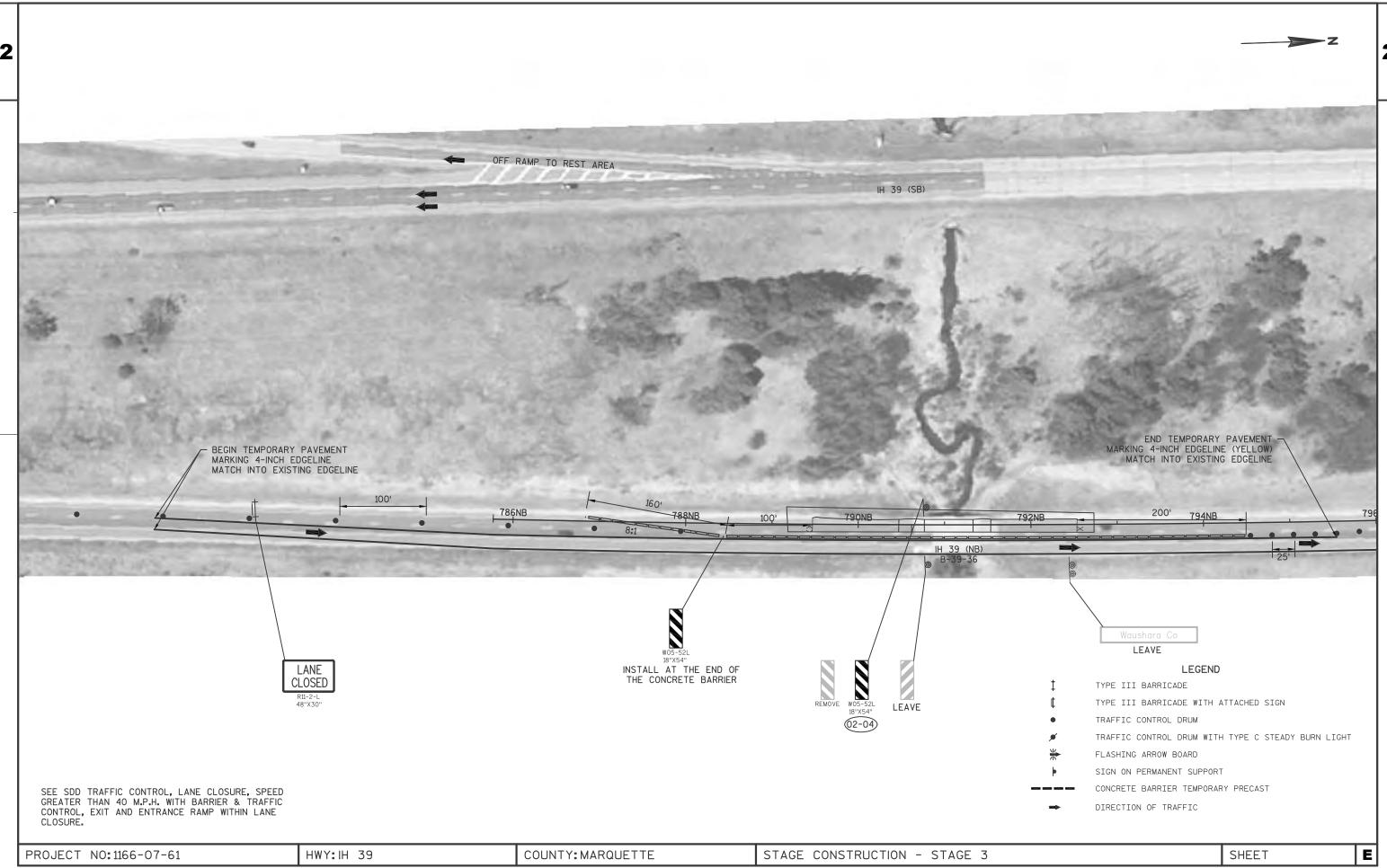
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PLOT DATE : 1/7/2015 2:45 PM

PLOT BY: CHRISTIANSON, ERIN MPLOT NAME:

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

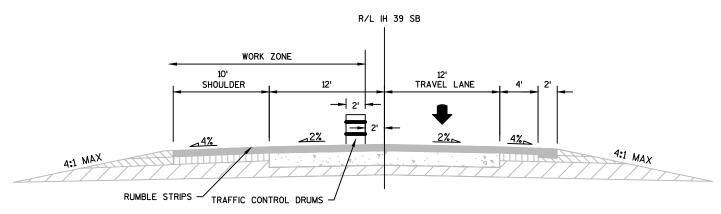


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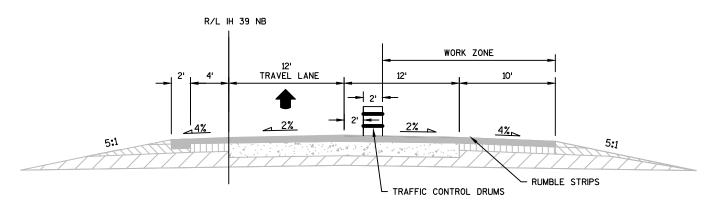
FILE NAME : N:\PDS\C3D\11660731\SHEETSPLAN\026202-S3.DWG
LAYOUT NAME - 16-s3

PLOT DATE : 1/7/2015 2:45 PM
PLOT BY : CHRISTIANSON, ERIN MPLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



#### TRAFFIC CONTROL TYPICAL SECTION

STAGE 4 SOUTHBOUND (LOOKING NORTH) B-39-31



#### TRAFFIC CONTROL TYPICAL SECTION

STAGE 4 NORTHBOUND (LOOKING NORTH) B-39-30,32,34,36

STAGE 4 NOTES:

STAGE 4 (TRAFFIC IN OUTSIDE LANES) NORTHBOUND (ALL FOUR STRUCTURES-DRUMS) GRIND IN SHOULDER RUMBLE STRIPS

4.2 SOUTHBOUND (B-39-31)
4.2.1 GRIND IN SHOULDER RUMBLE STRIPS

SEE CONSTRUCTION DETAIL FOR TRAFFIC LAYOUT AND FOR ADDITIONAL INFORMATION.

PROJECT NO: 1166-07-61 COUNTY: MARQUETTE TRAFFIC CONTROL - STAGE 4 Ε HWY: IH 39 SHEET

DATE 21	APR15	FS	ГІМАТ	E O F Q U A N	TITIES
LINE					1166-07-61
NUMBER 0010	I TEM 203. 0200	ITEM DESCRIPTION Removing Old Structure (station) 01.	UNI T LS	TOTAL 1. 000	QUANTI TY 1. 000
0010		430"Nb"+77. 19	LJ	1.000	1.000
0020	203. 0225. S	5 Debris Containment (structure) 01. B-39-36	LS	1. 000	1. 000
0030	204. 0100	Removing Pavement	SY	619.000	619. 000
0040		Removing Concrete Surface Partial Depth	SF	2, 241. 000	2, 241. 000
0050	204. 0110	Removing Asphaltic Surface	SY	243. 000	243. 000
0060	204. 0115	Removing Asphaltic Surface Butt Joints	SY	4, 429. 000	4, 429. 000
0070	204. 0125	Removing Asphaltic Surface Milling	TON	349. 000	349. 000
0800	206. 1000	Excavation for Structures Bridges (structure) 01. B-39-30	LS	1. 000	1. 000
0090	210. 0100	Backfill Structure	CY	25. 000	25.000
0100	211. 0400	Prepare Foundation for Asphaltic	STA	71. 000	71. 000
		Shoul ders			
0110	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	70.000	70. 000
0110	305. 0500	Shapi ng Shoul ders	STA	71. 000	71. 000
0130	415. 0410	Concrete Pavement Approach Slab	SY	437.000	437.000
0140	416. 1010	Concrete Surface Drains	CY	87. 000	87. 000
0150	455. 0105	Asphaltic Material PG58-28	TON	71. 100	71. 100
0160	455. 0605	Tack Coat	GAL	675. 100	675. 100
0170	460. 1110	HMA Pavement Type E-10	TON	1, 292. 000	1, 292. 000
0180	460. 4000	HMA Cold Weather Paving	TON	243. 000	243. 000
0190	465. 0400	Asphaltic Shoulder Rumble Strips	LF	11, 676. 000	11, 676. 000
0200	502. 0100	Concrete Masonry Bridges	CY	5. 000	5. 000
0210	502. 3200	Protective Surface Treatment	SY	2, 840. 000	2, 840. 000
0210	502. 5005	Masonry Anchors Type L No. 5 Bars	EACH	10. 000	10. 000
0230	505. 0605	Bar Steel Reinforcement HS Coated	LB	590. 000	590. 000
		Bri dges	0.7		
0240	509. 0200	Preparation Approaches	SY	290.000	290.000
0250	509. 0301	Preparation Decks Type 1	SY	169. 000	169. 000
0260	509. 0302	Preparation Decks Type 2	SY	84. 000	84. 000
0270	509. 0500	CI eani ng Decks	SY	2, 775. 000	2, 775. 000
0280	509.0600	CI eani ng Approaches	SY	290.000	290. 000
0290	509. 1500	Concrete Surface Repair	SF	30.000	30.000
0300	509. 2000	Full-Depth Deck Repair	SY	3. 000	3. 000
0310	509. 2500	Concrete Masonry Overlay Decks	CY	218. 000	218. 000
0320	509. 2600	Concrete Masonry Overlay Approaches	CY	20.000	20.000
0330		S Polymer Overlay	SY	515.000	515.000
0340	509. 9050. S	Cleaning Parapets Pubbarized Membrane Waterproofing	LF SY	1, 443. 000	1, 443. 000
0350	o 16. U5UU	Rubberized Membrane Waterproofing	31	2. 000	2. 000
0360	603. 8000	Concrete Barrier Temporary Precast	LF	4, 750. 000	4, 750. 000
0370	603. 8125	Delivered Concrete Barrier Temporary Precast	LF	9, 040. 000	9, 040. 000
0370	505. 0125	Installed	LI	7, 040. 000	7, 040. 000
0380	611. 8115	Adjusting Inlet Covers	EACH	10.000	10.000
0390	614. 0150	Anchor Assemblies for Steel Plate Beam	EACH	1. 000	1. 000
0400	610 0100	Guard Maintenance And Ponsir of Haul Poads	EVCH	1 000	1 000
0400	618. 0100	Maintenance And Repair of Haul Roads (project) 01. 1166-07-61	EACH	1. 000	1. 000
		(p. 5) 50t) 51. 1105 57 61			
0410	619. 1000	Mobilization	EACH	1. 000	1. 000
0420	628. 1905	Mobilizations Erosion Control	EACH	2.000	2. 000
0430	628. 1910	Mobilizations Emergency Erosion Control	EACH	1. 000	1.000
0440 0450	628. 7015 634. 0614	Inlet Protection Type C Posts Wood 4x6-Inch X 14-FT	EACH EACH	8. 000 10. 000	8. 000 10. 000
0730	007.0014	10313 11000 770-111011 / 14-11	LACII	10.000	10.000
0460	637. 2230	Signs Type II Reflective F	SF	67. 500	67. 500

DATE 21	APR15	E S	STIMATI	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	1166-07-61 QUANTI TY
0470	638. 2602	Removing Signs Type II	EACH	10.000	10.000
0480	638. 3000	Removing Small Sign Supports	EACH	10. 000	10. 000
0490	642. 5201	Field Office Type C	EACH	1. 000	1.000
0500	643. 0200	Traffic Control Surveillance and Maintenance (project) 01. 1166-07-61	DAY	78. 000	78. 000
0510	643. 0300	Traffic Control Drums Traffic Control Barricades Type III	DAY	14, 712. 000	14, 712. 000
0520 0530	643. 0420 643. 0705	Traffic Control Warning Lights Type A	DAY DAY	406. 000 406. 000	406. 000 406. 000
0540	643. 0715	Traffic Control Warning Lights Type C	DAY	2, 983. 000	2, 983. 000
0550	643. 0800	Traffic Control Arrow Boards	DAY	224. 000	224. 000
05/0	( 12, 0000	To Sel a Comband Class	DAY	1 (05 000	1 (05 000
0560	643. 0900	Traffic Control Signs Traffic Control Covering Signs Type II	DAY	1, 685. 000	1, 685. 000
0570 0580	643. 0920 643. 1000	Traffic Control Signs Fixed Message	EACH SF	2. 000 72. 750	2. 000 72. 750
0590	643. 1050	Traffic Control Signs PCMS	DAY	57. 000	57. 000
0600		S Pavement Marking Grooved Wet Reflective		36. 000	36. 000
2000	3.0.0001.	Tape 4-Inch	<del></del>	30. 000	20.000
0610	646, 0900	S Pavement Marking Late Season	LF	4, 082. 000	4, 082. 000
0620	649. 0400	Temporary Pavement Marking Removable	LF	70, 130. 000	70, 130. 000
		Tape 4-Inch			
0630	649. 0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	1, 232. 000	1, 232. 000
0640	650. 6500	Construction Staking Structure Layout (structure) 01. B-39-30	LS	1. 000	1. 000
0650	650. 6500	Construction Staking Structure Layout	LS	1. 000	1. 000
2000	230.0000	(structure) 02. B-39-31	20	1. 000	1. 000
0440	4E0 4E00	Construction Staking Structure Layout	LS	1. 000	1. 000
0660	650. 6500	(structure) 03. B-39-32	LS	1.000	1.000
0670	650. 6500	Construction Staking Structure Layout	LS	1. 000	1.000
		(structure) 04. B-39-34			
0680	650. 6500	Construction Staking Structure Layout	LS	1. 000	1. 000
0690	650. 8000	(structure) 05. B-39-36 Construction Staking Resurfacing	LF	1, 888. 000	1, 888. 000
0070	050. 0000	Reference	LF	1,000.000	1, 000. 000
0700	650. 9910	Construction Staking Supplemental	LS	1.000	1.000
		Control (project) 01. 1166-07-61			
0710	690. 0150	Sawing Asphalt	LF	433. 000	433. 000
0710	690. 0250	Sawing Concrete	LF	120. 000	120. 000
0730	ASP. 1TOA	On-the-Job Training Apprentice at \$5.	HRS	1, 200. 000	1, 200. 000
		00/HR			
0740	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/H		600.000	600.000
0750	SPV. 0045	Special 01. Portable Changeable Message	DAY	57. 000	57. 000
		Sign (PCMS) Cellular Communications			
0760	SPV. 0090	Special O1. Paving Notch Repair	LF	162. 000	162. 000
0770	SPV. 0090	Special 02. Remove And Reinstall	LF	25. 000	25. 000
		Guardrai I			

#### **REMOVING PAVEMENT**

		204.010	0
STATION - STATION	LOCATION	SY	REMARKS
CATEGORY 0010	_		
STAGE 2	=		
429"NB"+61 - 429"NB"+95	IH 39 (NB)	44	B-39-30 (APPROACH)
431"NB"+59 - 431"NB"+92	IH 39 (NB)	45	B-39-30 (APPROACH)
431"NB"+57 - 431"NB"+81	IH 39 (NB) RT	24	B-39-30 (SHLD)
608"NB"+61 - 608"NB"+81	IH 39 (NB) RT	23	B-39-32 (SHLD)
697"NB"+43 - 697"NB"+63	IH 39 (NB) RT	7	B-39-34 (SHLD)
790"NB"+47 - 790"NB"+77	IH 39 (NB)	39	B-39-36 (APPROACH)
790"NB"+55 - 790"NB"+77	IH 39 (NB) RT	17	B-39-36 (SHLD)
429"SB"+66 - 430"SB"+00	IH 39 (SB)	46	B-39-31 (APPROACH)
431"SB"+63 - 431"SB"+97	IH 39 (SB)	44	B-39-31 (APPROACH)
431"SB"+63 - 431"SB"+97	IH 39 (SB) LT	39	B-39-31 (SHLD)
STAGE	E 2 SUB TOTAL	328	
STAGE3			
429"NB"+61 - 429"NB"+95	IH 39 (NB)	46	B-39-30 (APPROACH)

STAGE 3 SUB TOTAL 291

431"NB"+59 - 431"NB"+92 IH 39 (NB)

429"SB"+66 - 430"SB"+00 IH 39 (SB)

431"SB"+63 - 431"SB"+97 IH 39 (SB)

TOTAL 619

14 B-39-30 (SHLD)

14

40

15

44

45

B-39-30 (APPROACH)

B-39-36 (APPROACH)

B-39-31 (APPROACH)

B-39-32 (SHLD)

B-39-34 (SHLD)

B-39-36 (SHLD) B-39-31 (APPROACH)

B-39-31 (SHLD)

#### REMOVING ASPHALTIC SURFACE

		204.0110	)
STATION - STATION	LOCATION	SY	REMARKS
CATEGORY 0010			
STAGE 2			
429"NB"+79 - 429"NB"+95	IH 39 (NB) RT	16	B-39-30
431"NB"+81 - 431"NB"+89	IH 39 (NB) RT	13	B-39-30
607"NB"+22 - 607"NB"+42	IH 39 (NB) RT	26	B-39-32
696"NB'+04 - 696"NB"+29	IH 39 (NB) RT	30	B-39-34
697'NB"+43 - 697"NB"+63	IH 39 (NB) RT	16	B-39-34
790'NB"+47 - 790"NB"+55	IH 39 (NB) RT	17	B-39-36
791"NB"+33 - 791"NB"+53	IH 39 (NB) RT	23	B-39-36
429"SB"+84 - 430"SB"+00	IH 39 (SB) LT	21	B-39-31
			_
STAG	E 2 SUB TOTAL	162	=
STAGE3			
429"NB"+79 - 429"NB"+95	IH 39 (NB) LT	13	B-39-30
431"NB"+81 - 431"NB"+89	IH 39 (NB) LT	5	B-39-30
607"NB"+22 - 607"NB"+42	IH 39 (NB) LT	14	B-39-32
696"NB"+04 - 696"NB"+24	IH 39 (NB) LT	14	B-39-34
697"NB"+39 - 697"NB"+58	IH 39 (NB) LT	6	B-39-34
790'NB"+47 - 790"NB"+55	IH 39 (NB) LT	5	B-39-36
791"NB"+33 - 791"NB"+53	IH 39 (NB) LT	15	B-39-36
429"SB"+84 - 430"SB"+00	IH 39 (SB) RT	9	B-39-31
			_
STAG	E 3 SUB TOTAL	81	<del>-</del>
			_
	TOTAL	243	_

### REMOVING ASPHALTIC SURFACE MILLING

		204.0125	
STATION - STATION	LOCATION	TON	REMARKS
CATEGORY 0010			
STAGE 1	-		
B-39-30	IH 39 (NB)	65	WIDENING
B-39-31	IH 39 (SB)	64	WIDENING
B-39-32	IH 39 (NB)	77	WIDENING
B-39-34	IH 39 (NB)	66	WIDENING
B-39-36	IH 39 (NB)	77	WIDENING

TOTAL 349

# PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

211.0400
STATION - STATION LOCATION STATION REMARKS

CATEGORY 0010

STAGE 1
WIDENING IH 39 (NB) 58 B-39-30/32/34/36
WIDENING IH 39 (SB) 13 B-39-31

TOTAL 71

#### REMOVING ASPHALTIC SURFACE BUTT JOINT

REMOVING ASPHAL	IIC SUKFA	C DUI	I JUINI
		204.0115	5
STATION - STATION	LOCATION	SY	REMARKS
CATEGORY 0010			
STAGE 2			
428"NB"+61 - 429"NB"+61	IH 39 (NB)	244	B-39-30
431"NB"+92 - 432"NB"+92	IH 39 (NB)	244	B-39-30
606'NB"+22 - 607"NB"+22	IH 39 (NB)	244	B-39-32
608"NB"+81 - 609"NB"+81	IH 39 (NB)	244	B-39-32
695"NB"+04 - 696'NB'+04	IH 39 (NB)	244	B-39-34
697"NB"+63 - 698"NB"+63	IH 39 (NB)	244	B-39-34
789'NB"+47 - 790"NB"+47	IH 39 (NB)	244	B-39-36
791'NB"+53 - 792"NB"+53	IH 39 (NB)	244	B-39-36
428"SB"+66 - 429"SB"+66	IH 39 (SB)	244	B-39-31
431"SB"+97 - 432"SB"+97	IH 39 (SB)	244	B-39-31
			_
STAGE	2 SUB TOTAL	2440	_
STAGE3			
428"NB"+61 - 429"NB"+61	IH 39 (NB)	200	B-39-30
431"NB"+92 - 432"NB"+92	IH 39 (NB)	178	B-39-30
606'NB"+22 - 607"NB"+22	IH 39 (NB)	211	B-39-32
608"NB"+81 - 609"NB"+81	IH 39 (NB)	200	B-39-32
695"NB"+04 - 696'NB'+04	IH 39 (NB)	200	B-39-34
697"NB"+63 - 698"NB"+63	IH 39 (NB)	200	B-39-34
789'NB"+47 - 790"NB"+47	IH 39 (NB)	200	B-39-36
791'NB"+53 - 792"NB"+53	IH 39 (NB)	200	B-39-36
428"SB"+66 - 429"SB"+66	IH 39 (SB)	200	B-39-31

STAGE 3 SUB TOTAL 1989

TOTAL 4429

B-39-31

PROJECT NO: 1166-07-61 HWY: IH 39 COUNTY: MARQUETTE MISCELLANEOUS QUANTITIES - 1 SHEET: **E** 

FILE NAME : <u>N:\pds\design id\1166-07-31 IH 39\Quantities\11660761 mg.ppt</u> PLOT NAME : <u>116607-61 mg.ppt</u> PLOT SCALE : 1:1

#### REMOVING CONCRETE SURFACE PARTIAL DEPTH

		204.0109.S	
STATION - STATION	LOCATION	SF	REMARKS
CATEGORY 0010			
STAGE 2			
607"NB"+22 - 607"NB"+42	IH 39 (NB)	270	B-39-32
608"NB"+58 - 608"NB"+81	IH 39 (NB)	260	B-39-32
696"NB"+04 - 696"NB"+24	IH 39 (NB)	266	B-39-34
697"NB'+39 - 697"NB"+63	IH 39 (NB)	263	B-39-34
791"NB"+33 - 791"NB"+53	IH 39 (NB)	237	B-39-36
			_
STAGE	2 SUB TOTAL	1296	_
STAGE3			
607"NB"+22 - 607"NB"+42	IH 39 (NB)	247	B-39-32
608"NB"+58 - 608"NB"+81	IH 39 (NB)	262	B-39-32
696"NB"+04 - 696"NB"+24	IH 39 (NB)	122	B-39-34
697"NB'+39 - 697"NB"+63	IH 39 (NB)	286	B-39-34
791"NB"+33 - 791"NB"+53	IH 39 (NB)	28	B-39-36
			_
STAGE	3 SUB TOTAL	945	_
			_
	TOTAL	2241	=

#### **CONCRETE PAVEMENT APPROACH SLAB**

	4	15.0410	)
STATION - STATION	LOCATION	SY	REMARKS
CATEGORY 0010	_		
STAGE 2	<del>_</del>		
429"NB"+61 - 429"NB"+95	IH 39 (NB)	44	B-39-30
431"NB"+59 - 431"NB"+92	IH 39 (NB)	45	B-39-30
790"NB"+47 - 790"NB"+77	IH 39 (NB)	39	B-39-36
429"SB"+66 - 430"SB"+00	IH 39 (SB)	46	B-39-31
431"SB"+63 - 431"SB"+97	IH 39 (SB)	44	B-39-31
	_		<u></u>
STAGE 2	SUB TOTAL	218	
STAGE 3			
429"NB"+61 - 429"NB"+95	IH 39 (NB)	46	B-39-30
431"NB"+59 - 431"NB"+92	IH 39 (NB)	44	B-39-30
790"NB"+47 - 790"NB"+77	IH 39 (NB)	40	B-39-36
429"SB"+66 - 430"SB"+00	IH 39 (SB)	44	B-39-31
431"SB"+63 - 431"SB"+97	IH 39 (SB)	45	B-39-31
	_		_
STAGE 3	SUB TOTAL	219	

TOTAL 437

#### BASE AGGREGATE DENSE

305.0120 1 1/4-INCH

STATION - STATION	LOCATION	TON	REMARKS					
CATEGORY 0010	_							
STAGE 2	-							
429"NB"+61 - 429"NB"+95	IH 39 (NB)	6	B-39-30 *					
431"NB"+59 - 431"NB"+92	IH 39 (NB)	10	B-39-30 *					
607"NB"+22 - 607"NB"+42	IH 39 (NB)	3	B-39-32 *					
608"NB"+61 - 608"NB"+81	IH 39 (NB)	3	B-39-32 *					
696"NB"+04 - 696"NB"+29	IH 39 (NB)	3	B-39-34 *					
696"NB"+43 - 697"NB"+63	IH 39 (NB)	3	B-39-34 *					
790"NB"+47 - 790"NB"+77	IH 39 (NB)	4	B-39-36 *					
791"NB"+33 - 791"NB"+53	IH 39 (NB)	3	B-39-36 *					
429"SB"+84 - 430"SB"+00	IH 39 (SB)	2	B-39-31 *					
431"SB"+63 - 431"SB"+97	IH 39 (SB)	4	B-39-31 *					
	_		=					
STAGE 2	SUB TOTAL	41						
STAGE 3								
429"NB"+61 - 429"NB"+95	IH 39 (NB)	7	B-39-30 *					
431"NB"+59 - 431"NB"+92	IH 39 (NB)	7	B-39-30 *					
607"NB"+22 - 607"NB"+42	IH 39 (NB)	2	B-39-32 *					
608"NB"+42 - 608"NB"+78	IH 39 (NB)	2	B-39-32 *					
696"NB"+04 - 696"NB"+24	IH 39 (NB)	2	B-39-34 *					
696"NB"+39 - 697"NB"+58	IH 39 (NB)	2	B-39-34 *					
790"NB"+47 - 790"NB"+77	IH 39 (NB)	2	B-39-36 *					
791"NB"+33 - 791"NB"+53	IH 39 (NB)	2	B-39-36 *					
429"SB"+84 - 430"SB"+00	IH 39 (SB)	1	B-39-31 *					
431"SB"+63 - 431"SB"+97	IH 39 (SB)	2	B-39-31 *					
STAGE 3 SUB TOTAL 29								

### **SHAPING SHOULDERS**

\* REGRADING APPROACH SLAB AND/OR SURFACE

STATION - STATION LOCATION STATION REMARKS CATEGORY 0010 STAGE 1 WIDENING IH 39 (NB) B-39-30/32/34/36 WIDENING IH 39 (SB) 13 B-39-31

#### SURFACE DRAINS

STATION - STATION CATEGORY 0010	LOCATION	SURFACE DRAINS CY	611.8115 ADJUSTING INLET COVERS EACH	REMARKS
STAGE 2	-			
429"NB"+79 - 429"NB"+95	IH 39 (NB) RT	3		B-39-30
431"NB"+59 - 431"NB"+92		8	1	B-39-30
607"NB"+22 - 607"NB"+42	IH 39 (NB) RT	5	<u></u>	B-39-32
608"NB"+61 - 608"NB"+81	IH 39 (NB) RT	5	1	B-39-32
696"NB"+04 - 696"NB"+29	IH 39 (NB) RT	6		B-39-34
697"NB"+43 - 697"NB"+63	IH 39 (NB) RT	5	1	B-39-34
790"NB"+47 - 790"NB"+77	IH 39 (NB) RT	7	1	B-39-36
791"NB"+33 - 791"NB"+53	IH 39 (NB) RT	4		B-39-36
429"SB"+84 - 430"SB"+00	` ,	4		B-39-31
431"SB"+63 - 431"SB"+97	IH 39 (SB) LT	8	1	B-39-31
	( /			
STAGE	2 SUB TOTALS	55	5	•
STAGE 3				
429"NB"+79 - 429"NB"+95	IH 39 (NB) LT	3		B-39-30
431"NB"+59 - 431"NB"+92	IH 39 (NB) LT	4	1	B-39-30
607"NB"+22 - 607"NB"+42	IH 39 (NB) LT	3		B-39-32
608"NB"+42 - 608"NB"+78	IH 39 (NB) LT	3	1	B-39-32
696"NB"+04 - 696"NB"+24	IH 39 (NB) LT	3		B-39-34
697"NB"+39 - 697"NB"+58	IH 39 (NB) LT	3	1	B-39-34
790"NB"+47 - 790"NB"+77	IH 39 (NB) LT	4	1	B-39-36
791"NB"+33 - 791"NB"+53	IH 39 (NB) LT	3		B-39-36
429"SB"+84 - 430"SB"+00	IH 39 (SB) RT	2		B-39-31
431"SB"+63 - 431"SB"+97	IH 39 (SB) RT	4	1	B-39-31
STAGE	3 SUB TOTALS	32	5	•
	TOTALS	87	10	•

305.0500

TOTAL 70

TOTAL 71

SHEET: PROJECT NO: 1166-07-61 **COUNTY: MARQUETTE** MISCELLANEOUS QUANTITIES - 2 HWY: IH 39

FILE NAME : N:\pds\design id\1166-07-31 IH 39\Quantities\11660761 mq.ppt PLOT DATE : <u>1/7/2015 3:00 PM</u> PLOT NAME : 116607-61\_mq.ppt PLOT SCALE: 1:1

DRAIN AREAS

### **HMA PAVEMENT TYPE & ASPHALTIC MATERIAL**

STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0605 TACK COAT GAL	460.1110 HMA PAVEMENT TYPE E-10 TON	460.4000 HMA COLD WEATHER PAVING TON	REMARKS
CATEGORY 0010						
STAGE 1	•					
B-39-30	IH 39 (NB)	7.6	61.8	138		WIDENING
B-39-31	IH 39 (SB)	7.4	61.5	135		WIDENING
B-39-32	IH 39 (NB)	8.9	73.0	162		WIDENING
B-39-34	IH 39 (NB)	7.8	62.9	142		WIDENING
B-39-36	IH 39 (NB)	9.0	73.9	164		WIDENING
STAGE 1	I SUB TOTALS	40.8	333.1	741	0	ı
CATEGORY 0010	_					
STAGE 2	-					
428"NB"+61 - 429"NB"+61	IH 39 (NB)	1.8	17.1	32		B-39-30
431"NB"+92 - 432"NB"+92	IH 39 (NB)	1.7	17.1	31		B-39-30
606"NB"+22 - 607"NB"+22	IH 39 (NB)	1.7	17.1	30		B-39-32
608"NB"+81 - 609"NB"+81	IH 39 (NB)	1.7	17.1	31		B-39-32
695'NB"+04 - 696"NB"+04	IH 39 (NB)	1.7	17.1	31		B-39-34
697"NB'+63 - 698"NB"+63	IH 39 (NB)	1.7	17.1	31		B-39-34
789"NB"+47 - 790"NB"+47	` ,	1.7	17.1	31		B-39-36
791"NB"+53 - 792"NB"+53	IH 39 (NB)	1.7	17.1	30		B-39-36
428"SB"+66 - 429"SB"+66	. ,	1.7	17.1	31		B-39-31
431"SB"+97 - 432"SB"+97	IH 39 (SB)	1.7	17.1	30		B-39-31
STAGE 2	SUB TOTALS	16.9	171.0	308	0	:
STAGE 3						
428"NB"+61 - 429"NB"+61	IH 39 (NB)	1.5	17.1	27	27	B-39-30
431"NB"+92 - 432"NB"+92	IH 39 (NB)	1.3	17.1	23	23	B-39-30
606"NB"+22 - 607"NB"+22	IH 39 (NB)	1.5	17.1	27	27	B-39-32
608"NB"+81 - 609"NB"+81	IH 39 (NB)	1.3	17.1	24	24	B-39-32
695'NB"+04 - 696"NB"+04	IH 39 (NB)	1.4	17.1	25	25	B-39-34
697"NB'+63 - 698"NB"+63	IH 39 (NB)	1.3	17.1	23	23	B-39-34
789"NB"+47 - 790"NB"+47	IH 39 (NB)	1.4	17.1	25	25	B-39-36
791"NB"+53 - 792"NB"+53	IH 39 (NB)	1.2	17.1	22	22	B-39-36
428"SB"+66 - 429"SB"+66	, ,	1.3	17.1	23	23	B-39-31
431"SB"+97 - 432"SB"+97	IH 39 (SB)	1.3	17.1	24	24	B-39-31
STAGE 3	SUB TOTALS	13.4	171.0	243	243	•
	TOTALS	71.1	675.1	1292	243	•

HWY: IH 39

### **ASPHALTIC SHOULDER RUMBLE STRIPS**

		465.0400				465.0400	
STATION - STATION	LOCATION	LF	REMARKS	STATION - STATION	LOCATION	LF	REMARKS
CATEGORY 00	)10			CATEGORY 00	)10		
STAGE 3				STAGE 4			
428"NB"+61 - 429"NB"+79	IH 39 (NB) LT	118	B-39-30	428"NB"+61 - 429"NB"+79	IH 39 (NB) RT	118	B-39-30
431"NB"+92 - 432"NB"+92	IH 39 (NB) LT	100	B-39-30	431"NB"+92 - 432"NB"+92	IH 39 (NB) RT	100	B-39-30
606"NB"+22 - 607"NB"+22	IH 39 (NB) LT	100	B-39-32	606"NB"+22 - 607"NB"+22	IH 39 (NB) RT	100	B-39-32
608'NB"+81 - 609"NB"+81	IH 39 (NB) LT	100	B-39-32	608'NB"+81 - 609"NB"+81	IH 39 (NB) RT	100	B-39-32
695"NB"+04 - 696"NB"+04	IH 39 (NB) LT	100	B-39-34	695"NB"+04 - 696"NB"+04	IH 39 (NB) RT	100	B-39-34
697"NB"+63 - 698"NB"+63	IH 39 (NB) LT	100	B-39-34	697"NB"+63 - 698"NB"+63	IH 39 (NB) RT	100	B-39-34
789"NB"+47 - 790"NB"+47	IH 39 (NB) LT	100	B-39-36	789"NB"+47 - 790"NB"+47	IH 39 (NB) RT	100	B-39-36
791"NB"+53 - 792"NB"+53	IH 39 (NB) RT	100	B-39-36	791"NB"+53 - 792"NB"+53	IH 39 (NB) RT	100	B-39-36
428"SB"+66 - 429"SB"+66	IH 39 (SB) LT	100	B-39-31	428"SB"+66 - 429"SB"+66	IH 39 (SB) LT	100	B-39-31
431"SB"+97 - 432"SB"+97	IH 39 (SB) LT	100	B-39-31	431"SB"+97 - 432"SB"+97	IH 39 (SB) LT	100	B-39-31
WIDENING	IH 39 (NB)	1325	B-39-30	FILLED RUMBLE STRIPS	IH 39 (NB)	500	B-39-30
WIDENING	IH 39 (NB)	1565	B-39-32	FILLED RUMBLE STRIPS	IH 39 (NB)	500	B-39-32
WIDENING	IH 39 (NB)	1348	B-39-34	FILLED RUMBLE STRIPS	IH 39 (NB)	500	B-39-34
WIDENING	IH 39 (NB)	1584	B-39-36	FILLED RUMBLE STRIPS	IH 39 (NB)	500	B-39-36
WIDENING	IH 39 (SB)	1318	B-39-31	FILLED RUMBLE STRIPS	IH 39 (SB)	500	B-39-31
STAGE 3	SUB TOTALS	8158	=	STAGE 4	SUB TOTALS	3518	=

### **CONCRETE APPROACHES**

		509.0200	509.0600	CONCRETE	
		<b>PREPARATION</b>	CLEANING	MASONRY OVERLAY	
		APPROACHES	<b>APPROACHES</b>	<b>APPROACHES</b>	
STATION - STATION	LOCATION	SY	SY	CY	REMARKS
CATEGORY 0010					
STAGE 2	•				
607"NB"+22 - 607"NB"+42	IH 39 (NB)	30	30	2	B-39-32
608"NB"+58 - 608"NB"+81	IH 39 (NB)	29	29	2	B-39-32
696"NB"+04 - 696"NB"+24	IH 39 (NB)	32	32	2	B-39-34
697"NB"+39 - 697"NB"+63	IH 39 (NB)	29	29	2	B-39-34
791"NB"+33 - 791"NB"+53	IH 39 (NB)	26	26	2	B-39-36
					_
STAGE 2 S	UB TOTALS	146	146	10	_
STAGE 3					
607"NB"+22 - 607"NB"+42	IH 39 (NB)	27	27	2	B-39-32
608"NB"+58 - 608"NB"+81	IH 39 (NB)	29	29	2	B-39-32
696"NB"+04 - 696"NB"+24	IH 39 (NB)	28	28	2	B-39-34
697"NB"+39 - 697"NB"+63	IH 39 (NB)	32	32	2	B-39-34
791"NB"+33 - 791"NB"+53	IH 39 (NB)	28	28	2	B-39-36
					-
STAGE 3 S	UB TOTALS	144	144	10	-
					_
	TOTALS	290	290	20	-

FILE NAME : N:\pds\design id\1166-07-31 IH 39\Quantities\11660761 mq.ppt

PROJECT NO: 1166-07-61

PLOT DATE : <u>1/7/2015 3:00 PM</u>

COUNTY: MARQUETTE

PLOT BY : \_

MISCELLANEOUS QUANTITIES - 3

PLOT NAME : 116607-61\_mq.ppt

SHEET:

TOTAL 11676

509.2600

PLOT SCALE: 1:1

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CONCRETE BARRIER TEMP	ORARY PRECAST	<u> </u>	SIGN LISTING	
PRE FURN DELI  STATION - STATION LOCATION  CATEGORY 0010  STAGE 2  425"NB"+67 - 434"NB"+92 IH 39 (NB) 603"NB"+31 - 611"NB"+81 IH 39 (NB) 8692"NB"+14 - 700"NB"+64 IH 39 (NB) 8786"NB"+53 - 794"NB"+53 IH 39 (NB) 88	3.8000 ECAST 603.8125 ISHED & PRECAST VERED INSTALLEI LF LF 925 925 850 850 850 850 850 850 800 905		634.0614   637.2230   638.2602   638.3000     POSTS WOOD   SIGNS   REMOVING   REMOVING     A" X 6"   TYPE II   SIGNS   SMALL SIGN     SIGN   SIGN   MESSAGE   SIZE   EACH   SF   EACH   EACH   REMARE     CATEGORY 0010	30 32 34 36
	350 4350	_	STAGE 2 SUB TOTALS 5 33.75 5 5 STAGE 3	
603"NB"+59 - 611"NB"+79 IH 39 (NB) 692"NB"+44 - 700"NB"+64 IH 39 (NB) 786"NB"+83 - 793"NB"+53 IH 39 (NB)	125 1050 820 140 990 770 135 1060	B-39-30 B-39-32 B-39-34 B-39-36 B-39-31	02-01 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-02 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-03 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-04 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 6.75 1 1 1 B-39-3   02-05 W5-52L BRIDGE HASH MARKS 18"x54" 1 1 1 6.	-32 -34 -36
STAGE 3 SUB TOTALS	4690	<b>-</b>	STAGE 2 SUB TOTALS 5 33.75 5 5	
TOTALS 4	750 9040		TOTALS 10 67.50 10 10	

### **INLET PROTECTION TYPE C**

		628.7015	;
STATION	LOCATION	EACH	REMARKS
CATEG	ORY 0010		
STAGE 2		-	
431"NB"+73	IH 39 (NB) RT	1	B-39-30
608"NB"+75	IH 39 (NB) RT	1	B-39-32
697"NB"+57	IH 39 (NB) RT	1	B-39-34
790"NB"+64	IH 39 (NB) RT	1	B-39-36
			_
STAGE	E 2 SUB TOTAL	4	=
STAGE 3			
431"NB"+73	IH 39 (NB) LT	1	B-39-30
608"NB"+70	IH 39 (NB) LT	1	B-39-32
697"NB"+50	IH 39 (NB) LT	1	B-39-34
790"NB"+64	IH 39 (NB) LT	1	B-39-36
			_
STAGE	E 3 SUB TOTAL	4	=
			_
	TOTAL	8	=

### **MOBILIZATIONS EROSION CONTROL**

	628.1905 MOBILIZATIONS EROSION	628.1910 MOBILIZATIONS EMERGENCY EROSION
	CONTROL	CONTROL
LOCATION	EACH	EACH
PROJECT LIMITS	2	1
TOTALS	2	1

PROJECT NO: 1166-07-61 HWY: IH 39 COUNTY: MARQUETTE MISCELLANEOUS QUANTITIES – 4 SHEET: **E** 

FILE NAME : N:\pds\design id\1166-07-31 | H 39\Quantities\11660761 mq.ppt PLOT NAME : \frac{116607-61 mq.ppt}{2} PLOT SCALE : 1:1

#### TRAFFIC CONTROL WARNING LIGHTS

#### TRAFFIC CONTROL DRUMS

LOCATION		NUMBER	DAYS	643.0300 DAY
CATEGORY 0010	)			
STAGE 1 <u>IH 39 (NB)</u> B-39-30 B-39-32 THRU B-39-	26	62 240	4 4	248 960
<u>IH 39 (SB)</u> B-39-31	·30	59	4	236
D-39-3 I		39	4	230
<u>STAGE 2</u> IH 39 (NB)	STAG	SE 1 SUB	TOTAL	1444
B-39-30		79	14	1106
B-39-32 THRU B-39- IH 39 (SB)	36	285	14	3990
B-39-31		77	14	1078
<u>STAGE 3</u> IH 39 (NB)	STAG	SE 2 SUB	TOTAL	6174
B-39-30		62	15	930
B-39-32 THRU B-39- IH 39 (SB)	36	240	15	3600
B-39-31		59	15	885
<u>STAGE 4</u> <u>IH 39 (NB)</u>	STAG	SE 3 SUB	TOTAL	5415
B-39-30		79	3	237
B-39-32 THRU B-39- IH 39 (SB)	36	285	3	855
B-39-31		77	3	231
<u>STAGE 5</u> <u>IH 39 (NB)</u>	STAG	SE 4 SUB	TOTAL	1323
B-39-34		89	4	356
;	STAG	SE 5 SUB	TOTAL	356
		-	TOTAL	14712

				643.0705		
STATION	LOCATION	NUMBER	DAYS	TYPE A DAY	TYPE C DAY	REMARKS
	EGORY 0010	NOWDER	DATO	DAT	DAT	REMARKO
STAGE 1		_				
IH 39 (NB)	PROJECT LIMITS	42	4		168	DRUMS
IH 39 (SB)	PROJECT LIMITS	21	4		84	DRUMS
						_
	S <sup>-</sup>	TAGE 1 SUB	TOTALS	0	252	_
STAGE 2						
IH 39 (NB)	PROJECT LIMITS	13	14	182		BARRICADES
		69	14		966	DRUMS
IH 39 (SB)	PROJECT LIMITS	1	14	14		BARRICADES
		29	14		406	DRUMS
	9.	TAGE 2 SUB	TOTALS	196	1372	=
STAGE 3	O	IAGE 2 GOD	TOTALO	100	1072	
IH 39 (NB)	PROJECT LIMITS	13	15	195		BARRICADES
11 00 (NB)	1 NOOLOT LIMITO	42	15		630	DRUMS
IH 39 (SB)	PROJECT LIMITS	1	15	15		BARRICADES
II 1 33 (OB)	1 100LO1 LIMITO	21	15		315	DRUMS
		۷.	10		010	DICOMO
	S <sup>·</sup>	TAGE 3 SUB	TOTALS	210	945	=
STAGE 4						
IH 39 (NB)	PROJECT LIMITS	69	3		207	DRUMS

#### TRAFFIC CONTROL **COVERING SIGNS TYPE II**

STAGE 4 SUB TOTALS 0

STAGE 5 SUB TOTALS 0

TOTALS 406

IH 39 (SB) PROJECT LIMITS

B-39-34 POLYMER OVERLAY 30

STAGE 5

		643.0920	)
LOCATION	SIGN MESSAGE	EACH	REMARKS
CATEGORY 0010			
STAGE 2			
IH 39 (NB)	EXIT 113 (ARROW)	1	
IH 39 (SB)	EXIT 113 (ARROW)	1	
			_
	STAGE 2 SUB TOTAL	2	_
			_
	TOTAL	2	_

#### TRAFFIC CONTROL ARROW BOARDS

			643.0800
LOCATION	NUMBER	DAYS	DAY
CATEGORY 00	10		
STAGE 1 IH 39 (NB)	4	4	16
IH 39 (SB)	4 2	4	8
111 39 (30)	2	7	O
	STAGE 1 SU	B TOTAL	24
STAGE 2			
IH 39 (NB)	4	14	56
IH 39 (SB)	2	14	28
	STAGE 2 SU	B TOTAL	84
STAGE 3			
IH 39 (NB)	4	15	60
IH 39 (SB)	2	15	30
	STAGE 3 SU	B TOTAL	90
STAGE 4	011102 0 00	2 .0 .,	
IH 39 (NB)	4	3	12
IH 39 (SB)	2	3	6
	STAGE 4 SU	B TOTAL	18
STAGE 5			
IH 39 (NB)	2	4	8
	STAGE 5 SU	R TOTAL	8
	OTAGE 3 30	DIOIAL	U
		TOTAL	224

### TRAFFIC CONTROL BARRICADES

STATION	LOCATION	NUMBER	DAYS	643.0420 TYPE III DAY
CATE	EGORY 0010	_		
STAGE 2		_		
IH 39 (NB)	PROJECT LIMITS	13	14	182
IH 39 (SB)	PROJECT LIMITS	1	14	14
, ,	PROJECT LIMITS PROJECT LIMITS	AGE 2 SUB 13 1	15 15	195 15
	STA	AGE 3 SUB	TOTAL	210
			TOTAL	406

SHEET: PROJECT NO: 1166-07-61 HWY: IH 39 COUNTY: MARQUETTE MISCELLANEOUS QUANTITIES - 5

FILE NAME : N:\pds\design id\1166-07-31 IH 39\Quantities\11660761 mq.ppt

PLOT DATE : <u>1/7/2015 3:00 PM</u>

87 DRUMS

120 DRUMS

120

2983

PLOT SCALE: 1:1

PLOT NAME : 116607-61\_mq.ppt

### TRAFFIC CONTROL SIGNS

G20-2A ON RAMP AT CTH E/CTH J BEGIN PROJECT IH 39 (SB)  W20-1 W20-5 W20-5 W20-5 W04-2L G20-2A   STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W20-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5	DECODIDEION	SIGN		643.0900	LOCATION	SIGN	DECODIDECT	SIGN		643.0900
STAGE 1  BEGIN PROJECT IH 39 (NB) W20-1	DESCRIPTION	NUMBER	DAYS	DAY	LOCATION	CODE	DESCRIPTION	NUMBER	DAYS	DAY
BEGIN PROJECT IH 39 (NB) W20-1 W20-5 W20-5 W04-2L G20-2A ON RAMP AT CTH E/CTH J BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W30-2R E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W30-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W					CATEGORY 0010 STAGE 3					
W20-5 W20-5 W20-5 W04-2L G20-2A ON RAMP AT CTH E/CTH J BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W2	ROAD WORK 1 MILE	2	4	8	BEGIN PROJECT IH 39 (NB)	W20-1	ROAD WORK 1 MILE	2	15	30
W20-5 WO4-2L G20-2A ON RAMP AT CTH E/CTH J BEGIN PROJECT IH 39 (SB)  W20-1 W20-5 W20-5 W04-2L G20-2A   STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-	LEFT LANE CLOSED 1/2 MILE	4	4	16	BEGIN PROJECT IN 39 (NB)	W20-1 W20-5	LEFT LANE CLOSED 1/2 MILE	4	15 15	60
WO4-2L G20-2A ON RAMP AT CTH E/CTH J BEGIN PROJECT IH 39 (SB)  STAGE 2  BEGIN PROJECT IH 39 (NB)  STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20	LEFT LANE CLOSED 1/2 MILE LEFT LANE CLOSED 1500 FT	4	4	16		W20-5 W20-5	LEFT LANE CLOSED 1/2 MILE LEFT LANE CLOSED 1500 FT	4	15 15	60
G20-2A ON RAMP AT CTH E/CTH J BEGIN PROJECT IH 39 (SB)  STAGE 2  BEGIN PROJECT IH 39 (NB)  STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1 W20-5 W20-5 W20-5 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R G20-2A  ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB)  W20-1 W20-5 W2	WORK ZONE LANE ENDS SYMBOL	4	4	16		WO4-2L	WORK ZONE LANE ENDS SYMBOL	4	15	60
ON RAMP AT CTH E/CTH J W20-1-A BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W20-5 W20-2A  STAGE 2  BEGIN PROJECT IH 39 (NB) W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R G20-2A  ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5	END ROAD WORK	- <del>4</del>	4	8		W04-2L R11-2-L	LANE CLOSED	- <del>4</del> 13	15	195
BEGIN PROJECT IH 39 (SB)  W20-1 W20-5 W20-5 W04-2L G20-2A   STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R G20-2A  ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB)  W20-1 W20-5 W20	ROAD WORK AHEAD	2	4	0		W5-52L	BRIDGE HASH MARKS	13	15 14	
W20-5 W20-5 W04-2L G20-2A  STAGE 2  BEGIN PROJECT IH 39 (NB) W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-5 W30-5 W30	ROAD WORK AREAD ROAD WORK 1 MILE	1	4	4 0		005-52L G20-2A	END ROAD WORK	4		56
STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1  W20-5  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R  G20-2A  ON RAMP AT CTH E/CTH J  ON RAMP AT REST AREA  W20-1-A  W03-2  R1-2  BEGIN PROJECT IH 39 (SB)  W20-1  W20-5  W20-5  W20-5  W20-5  W20-5  W20-5  W20-5  W30-5  W3	LEFT LANE CLOSED 1/2 MILE	2	4	0	ON RAMP AT CTH E/CTH J			4	15 15	30 45
STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R  G20-2A  ON RAMP AT CTH E/CTH J  ON RAMP AT REST AREA  W20-1-A  W03-2  R1-2  BEGIN PROJECT IH 39 (SB)  W20-1  W20-5  W20-5  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R		2	4	0		W20-1-A	ROAD WORK AHEAD	1	15 45	15 45
STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R  G20-2A  ON RAMP AT CTH E/CTH J  ON RAMP AT REST AREA  W20-1-A  W03-2  R1-2  BEGIN PROJECT IH 39 (SB)  W20-1  W20-5  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R	LEFT LANE CLOSED 1500 FT	2	4	8	ON RAMP AT REST AREA	W20-1-A	ROAD WORK AHEAD	1	15	15
STAGE 2  BEGIN PROJECT IH 39 (NB)  W20-1  W20-5  W04-2R  E5-1  R11-2-L  W5-52R  G20-2A  ON RAMP AT CTH E/CTH J  ON RAMP AT REST AREA  W20-1-A  W03-2  R1-2  BEGIN PROJECT IH 39 (SB)  W20-5  W20-5  W20-5  W20-5  W20-5  W30-5  W3	WORK ZONE LANE ENDS SYMBOL		4	8		WO3-2	YIELD AHEAD SYMBOL	1	15	15
BEGIN PROJECT IH 39 (NB)  W20-1  W20-5  W04-2R  E5-1  R11-2-L  W5-52R  G20-2A  ON RAMP AT CTH E/CTH J  ON RAMP AT REST AREA  W20-1-A  W03-2  R1-2  BEGIN PROJECT IH 39 (SB)  W20-1  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R	END ROAD WORK	2	4	8		R1-2	YIELD	1	15	15
BEGIN PROJECT IH 39 (NB)  W20-1  W20-5  W04-2R  E5-1  R11-2-L  W5-52R  G20-2A  ON RAMP AT CTH E/CTH J  ON RAMP AT REST AREA  W20-1-A  W03-2  R1-2  BEGIN PROJECT IH 39 (SB)  W20-1  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R		OTA OF 4 OUT	<del>-</del>	100	BEGIN PROJECT IH 39 (SB)	W20-1	ROAD WORK 1 MILE	2	15	30
BEGIN PROJECT IH 39 (NB)  W20-1  W20-5  W04-2R  E5-1  R11-2-L  W5-52R  G20-2A  ON RAMP AT CTH E/CTH J  ON RAMP AT REST AREA  W20-1-A  W03-2  R1-2  BEGIN PROJECT IH 39 (SB)  W20-1  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R		STAGE 1 SU	3 IUIAL	108		W20-5	LEFT LANE CLOSED 1/2 MILE	2	15	30
W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-5 W20-5 W20-5 W20-5 W1-2-L W5-52R						W20-5	LEFT LANE CLOSED 1500 FT	2	15	30
W20-5 WO4-2R E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	ROAD WORK 1 MILE	2	14	28		WO4-2L	WORK ZONE LANE ENDS SYMBOL	_ 2	15	30
WO4-2R E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	RIGHT LANE CLOSED 1/2 MILE	4	14	56		R11-2-L	LANE CLOSED	1	15	15
E5-1 R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	RIGHT LANE CLOSED 1500 FT	4	14	56		W5-52L	BRIDGE HASH MARKS	1	14	14
R11-2-L W5-52R G20-2A ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	WORK ZONE LANE ENDS SYMBOL	_ 4	14	56		G20-2A	END ROAD WORK	2	15	30
W5-52R G20-2A ON RAMP AT CTH E/CTH J ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	EXIT W/ARROW	1	14	14					:	
G20-2A ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	LANE CLOSED	13	14	182				STAGE 3 SU	B TOTAL	730
ON RAMP AT CTH E/CTH J W20-1-A ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	BRIDGE HASH MARKS	4	14	56	STAGE 4					
ON RAMP AT REST AREA W20-1-A W03-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 W04-2R E5-1 R11-2-L W5-52R	END ROAD WORK	2	14	28	BEGIN PROJECT IH 39 (NB)	W20-1	ROAD WORK 1 MILE	2	3	6
WO3-2 R1-2 BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 WO4-2R E5-1 R11-2-L W5-52R	ROAD WORK AHEAD	1	14	14		W20-5	LEFT LANE CLOSED 1/2 MILE	4	3	12
R1-2 BEGIN PROJECT IH 39 (SB)  W20-1  W20-5  W20-5  W04-2R  E5-1  R11-2-L  W5-52R	ROAD WORK AHEAD	1	14	14		W20-5	LEFT LANE CLOSED 1500 FT	4	3	12
BEGIN PROJECT IH 39 (SB) W20-1 W20-5 W20-5 WO4-2R E5-1 R11-2-L W5-52R	YIELD AHEAD SYMBOL	1	14	14		WO4-2L	WORK ZONE LANE ENDS SYMBOL	_ 4	3	12
W20-5 W20-5 WO4-2R E5-1 R11-2-L W5-52R	YIELD	1	14	14		G20-2A	END ROAD WORK	2	3	6
W20-5 WO4-2R E5-1 R11-2-L W5-52R	ROAD WORK 1 MILE	2	14	28	ON RAMP AT CTH E/CTH J	W20-1-A	ROAD WORK AHEAD	1	3	3
WO4-2R E5-1 R11-2-L W5-52R	RIGHT LANE CLOSED 1/2 MILE	2	14	28	BEGIN PROJECT IH 39 (SB)	W20-1	ROAD WORK 1 MILE	2	3	6
E5-1 R11-2-L W5-52R	RIGHT LANE CLOSED 1500 FT	2	14	28		W20-5	LEFT LANE CLOSED 1/2 MILE	2	3	6
R11-2-L W5-52R	WORK ZONE LANE ENDS SYMBOL	_ 2	14	28		W20-5	LEFT LANE CLOSED 1500 FT	2	3	6
R11-2-L W5-52R	EXIT W/ARROW	1	14	14		WO4-2L	WORK ZONE LANE ENDS SYMBOL	_ 2	3	6
W5-52R	LANE CLOSED	1	14	14		G20-2A	END ROAD WORK	2	3	6
G20-2A	BRIDGE HASH MARKS	1	14	14						
	END ROAD WORK	2	14	28				STAGE 4 SU	B TOTAL	81
					STAGE 5					
		STAGE 2 SU	3 TOTAL	714	B-39-34 POLYMER OVERLAY	W20-1	ROAD WORK 1 MILE	2	4	8
			, . <b>-</b>			W20-5	RIGHT LANE CLOSED 1/2 MILE	2	4	8
						W20-5	RIGHT LANE CLOSED 1500 FT	2	4	8
						W04-2R	WORK ZONE LANE ENDS SYMBOL	2	⊿	8
						G20-2A	END ROAD WORK	- <del>2</del>	4	8
					ON RAMP AT REST AREA	W20-1-A	ROAD WORK AHEAD	1	1	<i>∆</i>
					ON TOWN AT INCOTAREA	WO3-2	YIELD AHEAD SYMBOL	1	<del>1</del> ∕I	4
						R1-2	YIELD AREAD STIMBOL	1	<b>→</b>	<del>1</del>
						KI-Z	TIELU	I	4	4
								STAGE 5 SU	B TOTAL	52
									ΤΟΤΔΙ	1685

FILE NAME : N:\pds\design id\1166-07-31 IH 39\Quantities\11660761 mq.ppt

HWY: IH 39

PROJECT NO: 1166-07-61

PLOT DATE : <u>1/7/2015 3:00 PM</u>

COUNTY: MARQUETTE

PLOT BY : \_\_\_\_\_ PLOT NAME : <u>116607-61\_mq.ppt</u>

MISCELLANEOUS QUANTITIES - 6

•

PLOT SCALE : 1:1

SHEET:

## 3

### TRAFFIC CONTROL SIGNS FIXED MESSAGE

643.1000

LOCATION SIGN MESSAGE SF REMARKS

CATEGORY 0010

IH 39 (NB) BRIDGE WORK NEXT 7 MILES 57.00 INSTALL STAGE 1
IH 39 (NB) REST AREA (ARROW) 15.75 INSTALL STAGE 2

TOTAL 72.75

### PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

LOCATION SIGN MESSAGE	643.1050 TRAFFIC CONTROL SIGNS DAY	SPV.0045.01 CELLULAR COMMUNICATIONS DAY
CATEGORY 0010		
112.1 MILE MARKER IH 39 (NB) SEE TC SHEETS	7	7
114.1 MILE MARKER IH 39 (SB) SEE TC SHEETS	7	7
,		
SUB TOTALS	14	14
STAGE 1		
112.1 MILE MARKER IH 39 (NB) SEE TC SHEETS	4	4
114.1 MILE MARKER IH 39 (SB) SEE TC SHEETS	4	4
(,		
STAGE 1 SUB TOTALS	8	8
STAGE 2		-
115.1 MILE MARKER IH 39 (NB) SEE TC SHEETS	14	14
110.11 MILE 100 (112) 022 10 0112210	• • •	
STAGE 2 SUB TOTALS	14	14
STAGE 3	• • •	
115.1 MILE MARKER IH 39 (NB) SEE TC SHEETS	15	15
113.1 WILL WARREN IT 39 (ND) SEE TO SHEETS	10	15
STAGE 3 SUB TOTALS	15	15
STAGE 4	10	15
112.1 MILE MARKER IH 39 (NB) SEE TC SHEETS	3	3
· · · ·	3	3
114.1 MILE MARKER IH 39 (SB) SEE TC SHEETS	ა	S
STAGE 4 SUB TOTALS	6	6
STAGE 4 SUB TOTALS	U	U
TOTALS	57	57
.0.7.20	٠.	٠.

### **PAVEMENT MARKING**

		4-INCH LANE	646.0900 ATE SEAS 4-INCH EDGE (WHITE)	_	646.0881.S GROOVED WET REFLECTIVE 4- INCH LANE (WHITE)	
STATION - STATION	LOCATION	` LF ´	` LF ´	` LF ´	` LF ´	REMARKS
CATEGORY 0010	_					
STAGE 3	=					
428"NB"+61 - 432"NB"+92	IH 39 (NB)	100.0		431	8	B-39-30
606"NB"+92 - 609"NB"+81	IH 39 (NB)	75.0		289	6	B-39-32
695"NB"+04 - 698"NB"+63	IH 39 (NB)	87.5		359	6	B-39-34
789"NB"+47 - 792"NB"+53	IH 39 (NB)	75.0		306	6	B-39-36
428"SB"+66 - 432"SB"+97	IH 39 (SB)	112.5		431	10	B-39-31
						=
	UB TOTALS	450.0	0.0	1816	36	
STAGE 4						
428"NB"+61 - 432"NB"+92	IH 39 (NB)		431			B-39-30
606"NB"+92 - 609"NB"+81	IH 39 (NB)		289			B-39-32
695"NB"+04 - 698"NB"+63	IH 39 (NB)		359			B-39-34
789"NB"+47 - 792"NB"+53	IH 39 (NB)		306			B-39-36
428"SB"+66 - 432"SB"+97	IH 39 (SB)		431			B-39-31
						=
STAGE 4 S	UB TOTALS	0.0	1816	0	0	
						=
	TOTALS	450.0	1816	1816	36	
						=
GRAI	ND TOTALS		4082.0		36	

PROJECT NO: 1166-07-61 HWY: IH 39 COUNTY: MARQUETTE MISCELLANEOUS QUANTITIES - 7

### TEMPORARY PAVEMENT MARKING TAPE

					649.0801
			649.04	00	REMOVABLE
		RE	REMOVABLE 4-INCH		8-INCH
		WHITE	YELLOW	BLACK OUT	WHITE
STATION	LOCATION	LF	LF	LF	LF
CATEGOR	Y 0010	•			
STAGE 2		_'			
B-39-30	IH 39 (NB)	3600	2225	3665	336
B-39-32	IH 39 (NB)	2809	2150	3190	
REST AREA	IH 39 (NB)	200		850	542
B-39-34	IH 39 (NB)	1363	2150	2150	
B-39-36	IH 39 (NB)	1210	2101	2101	
B-39-31	IH 39 (SB)	3280	2234	3674	354
STAGE 2 S	UB TOTALS	12462	10860	15630	1232
STAGE 3					
B-39-30	IH 39 (NB)	1784	4012	1784	
B-39-32	IH 39 (NB)	2221	2803	2221	
B-39-34	IH 39 (NB)	1588	1420	1588	
B-39-36	IH 39 (NB)	1671	1369	1671	
B-39-31	IH 39 (SB)	1712	3622	1712	
STAGE 3 S	UB TOTALS	8976	13226	8976	0
	TOTALS	21438	24086	24606	1232
GRAI	ND TOTALS		70130		1232

### **CONSTRUCTION STAKING**

			650.6500 STRUCTURE LAYOUT	650.8000 RESURFACING REFERENCE
CATEGORY	STATION - STATION	LOCATION	LS	LF
0010	428"NB"+60 - 432"NB"+92	01. B-39-30		432
0010	428"SB"+66 - 432"SB"+97	02. B-39-31		431
0010	606"NB"+22 - 609"NB"+81	03. B-39-32		359
0010	695"NB"+04 - 698"NB"+63	04. B-39-34		359
0010	789"NB"+47 - 792"NB"+54	05. B-39-36		307
0060	428"NB"+60 - 432"NB"+92	01. B-39-30	1	
0020	428"SB"+66 - 432"SB"+97	02. B-39-31	1	
0030	606"NB"+22 - 609"NB"+81	03. B-39-32	1	
0040	695"NB"+04 - 698"NB"+63	04. B-39-34	1	
0050	789"NB"+47 - 792"NB"+54	05. B-39-36	1	
		TOTALS	5	1888

### **SAWING ASPHALT**

		690.0150	
STATION	LOCATION	LF	REMARKS
CATEGO	RY 0010	_	
STAGE 2		<b>=</b>	
428"NB"+60	IH 39 (NB)	23	B-39-30
432"NB"+92	IH 39 (NB)	23	B-39-30
428"SB"+66	IH 39 (SB)	22	B-39-31
432"SB"+97	IH 39 (SB)	23	B-39-31
606"NB"+22	IH 39 (NB)	25	B-39-32
609"NB"+81	IH 39 (NB)	23	B-39-32
695"NB"+04	IH 39 (NB)	23	B-39-34
698"NB"+63	IH 39 (NB)	23	B-39-34
789"NB"+47	IH 39 (NB)	23	B-39-36
790"NB"+47	IH 39 (NB)	10	B-39-36
792"NB"+54	IH 39 (NB)	22	B-39-36
STAGE 2	SUB TOTAL	240	=
STAGE 3			
428"NB"+60	IH 39 (NB)	19	B-39-30
432"NB"+92	IH 39 (NB)	18	B-39-30
428"SB"+66	IH 39 (SB)	18	B-39-31
432"SB"+97	IH 39 (SB)	18	B-39-31
606"NB"+22	IH 39 (NB)	22	B-39-32
609"NB"+81	IH 39 (NB)	18	B-39-32
695"NB"+04	IH 39 (NB)	18	B-39-34
698"NB"+63	IH 39 (NB)	18	B-39-34
789"NB"+47	IH 39 (NB)	20	B-39-36
790"NB"+47	IH 39 (NB)	6	B-39-36
792"NB"+54	IH 39 (NB)	18	B-39-36
			_
STAGE 3	SUB TOTAL	193	=
	TAT::	460	=
	TOTAL	433	

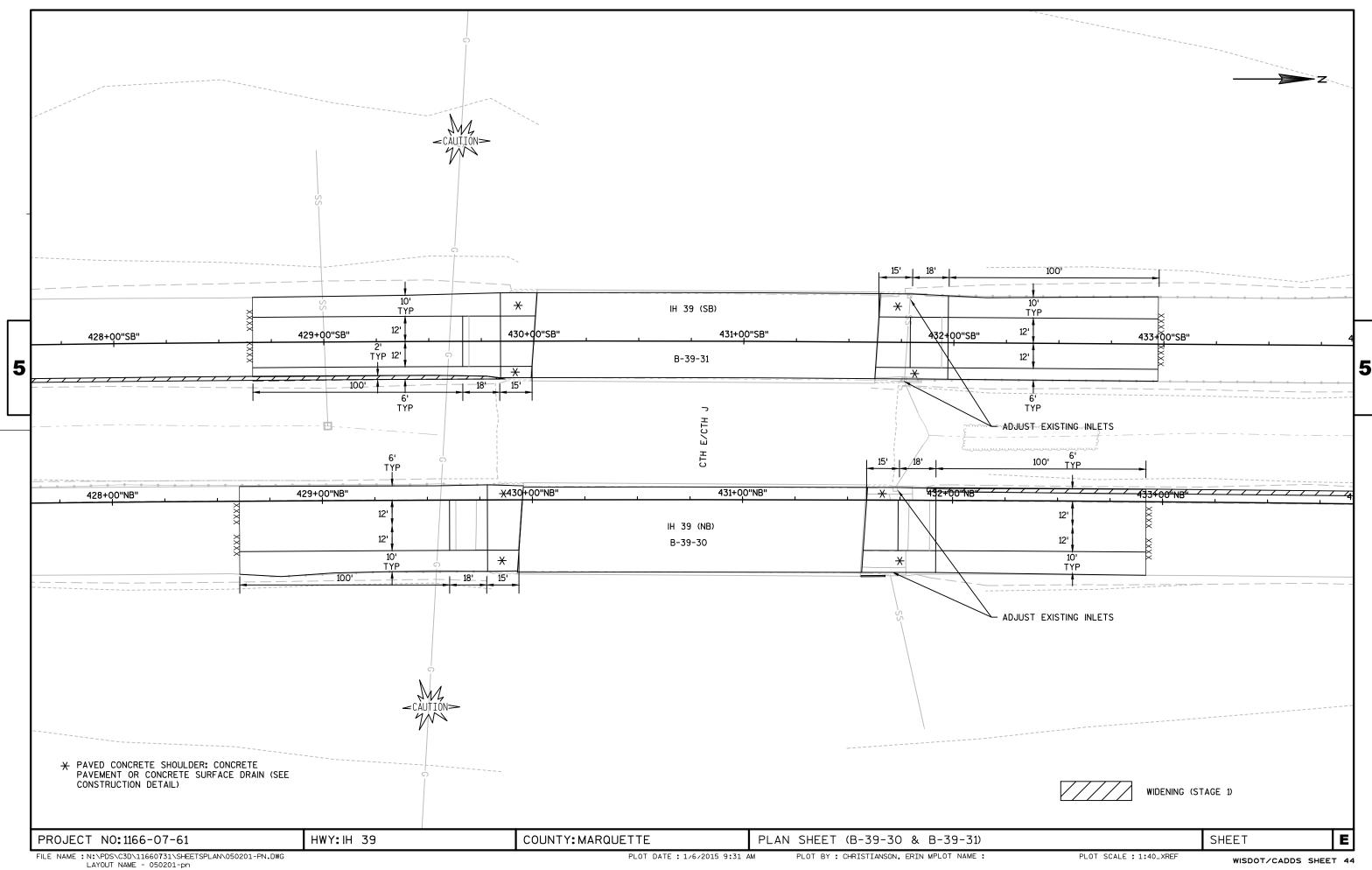
### **SAWING CONCRETE**

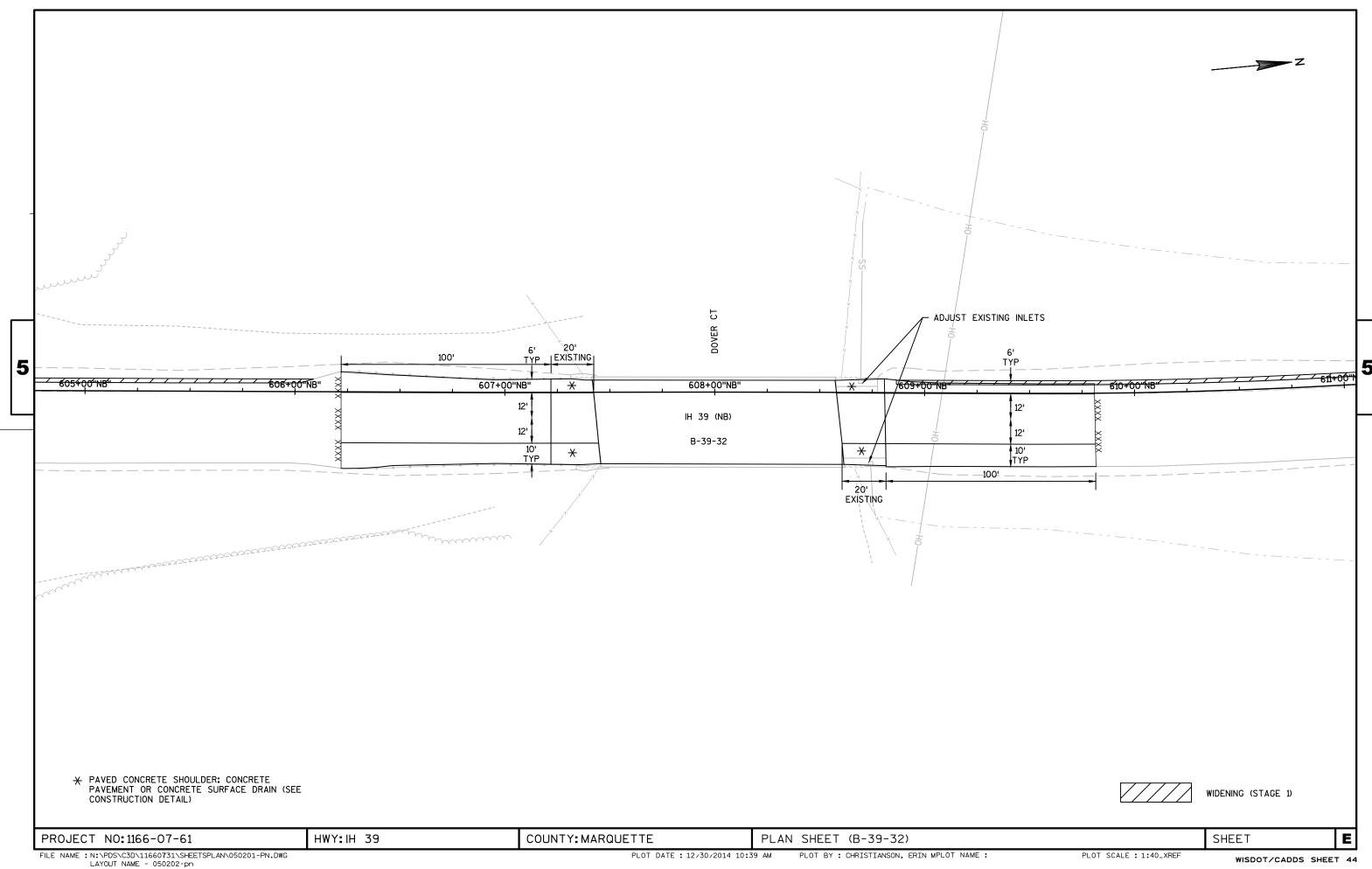
		690.0250	
STATION	LOCATION	LF	REMARKS
CATEGO	RY 0010	_	
STAGE 2		=	
429"NB"+60	IH 39 (NB)	12	B-39-30
431"NB"+92	IH 39 (NB)	12	B-39-30
429"SB"+66	IH 39 (SB)	12	B-39-31
431"SB"+97	IH 39 (SB)	12	B-39-31
790"NB"+47	IH 39 (NB)	12	B-39-36
STAGE 2	SUB TOTAL	60	•
STAGE 3			
429"NB"+60	IH 39 (NB)	12	B-39-30
431"NB"+92	IH 39 (NB)	12	B-39-30
429"SB"+66	IH 39 (SB)	12	B-39-31
431"SB"+97	IH 39 (SB)	12	B-39-31
790"NB"+47	IH 39 (NB)	12	B-39-36
STAGE 3	SUB TOTAL	60	•
		,	_
	TOTAL	120	-

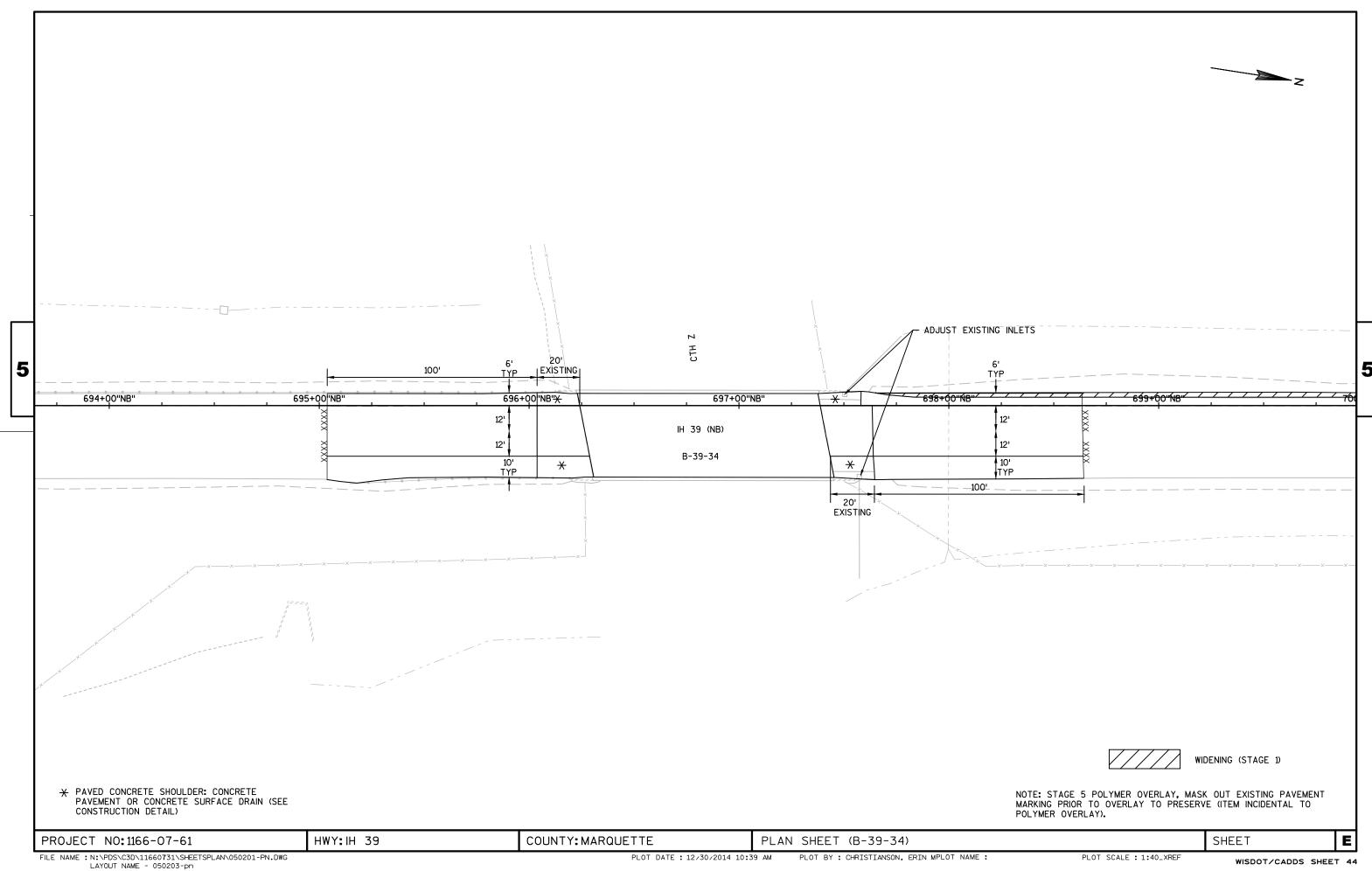
### REMOVE AND REINSTALL GUARDRAIL

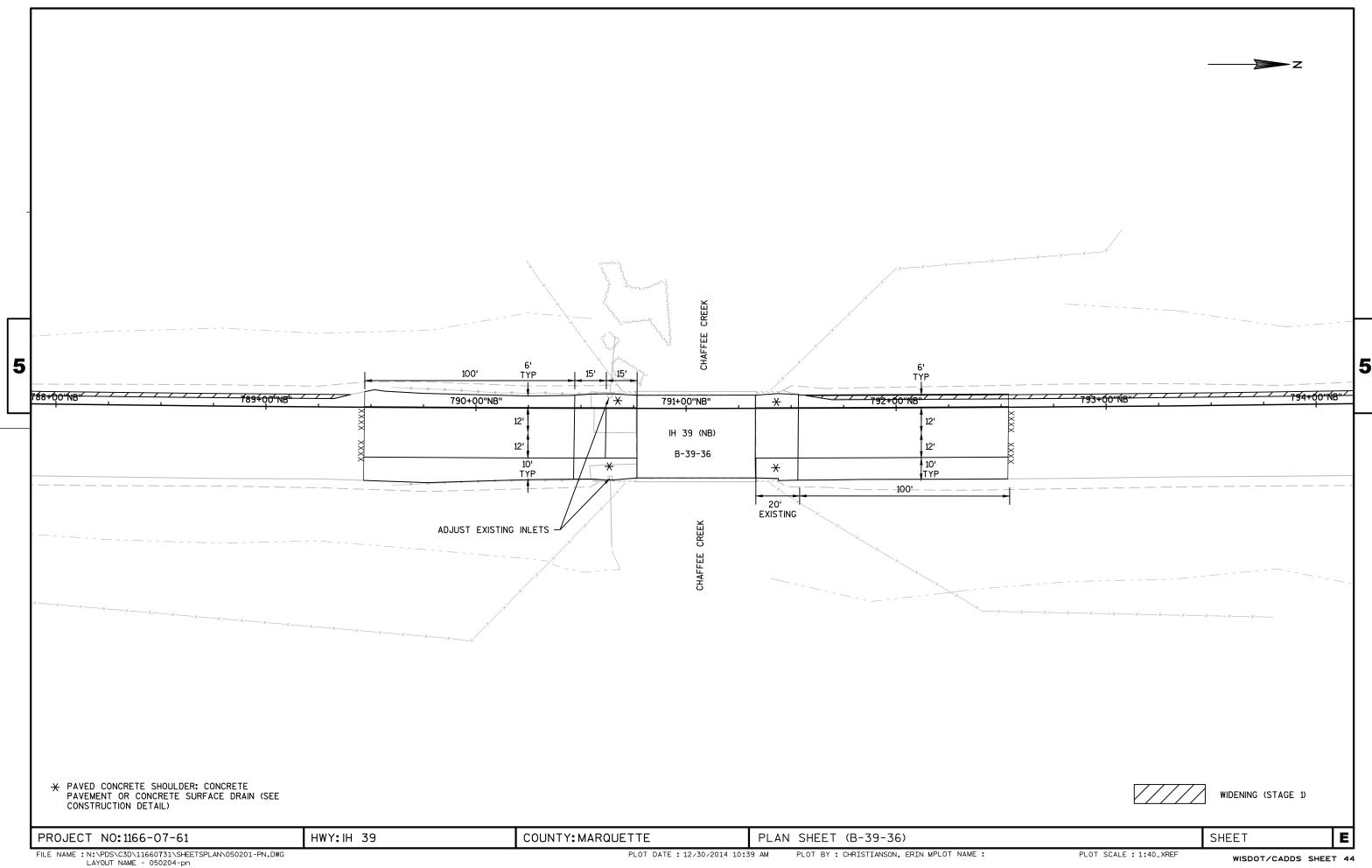
		SPV.0090.0	)2
STATION - STATION	LOCATION	LF	REMARKS
CATEGORY 00	10		
STAGE 2			
431"NB"+06 - 431"NB"+3 <sup>2</sup>	I IH 39 (NB)	25	B-39-30
	TOTAL	25	

PROJECT NO: 1166-07-61 HWY: IH 39 COUNTY: MARQUETTE MISCELLANEOUS QUANTITIES - 8 SHEET: **E** 



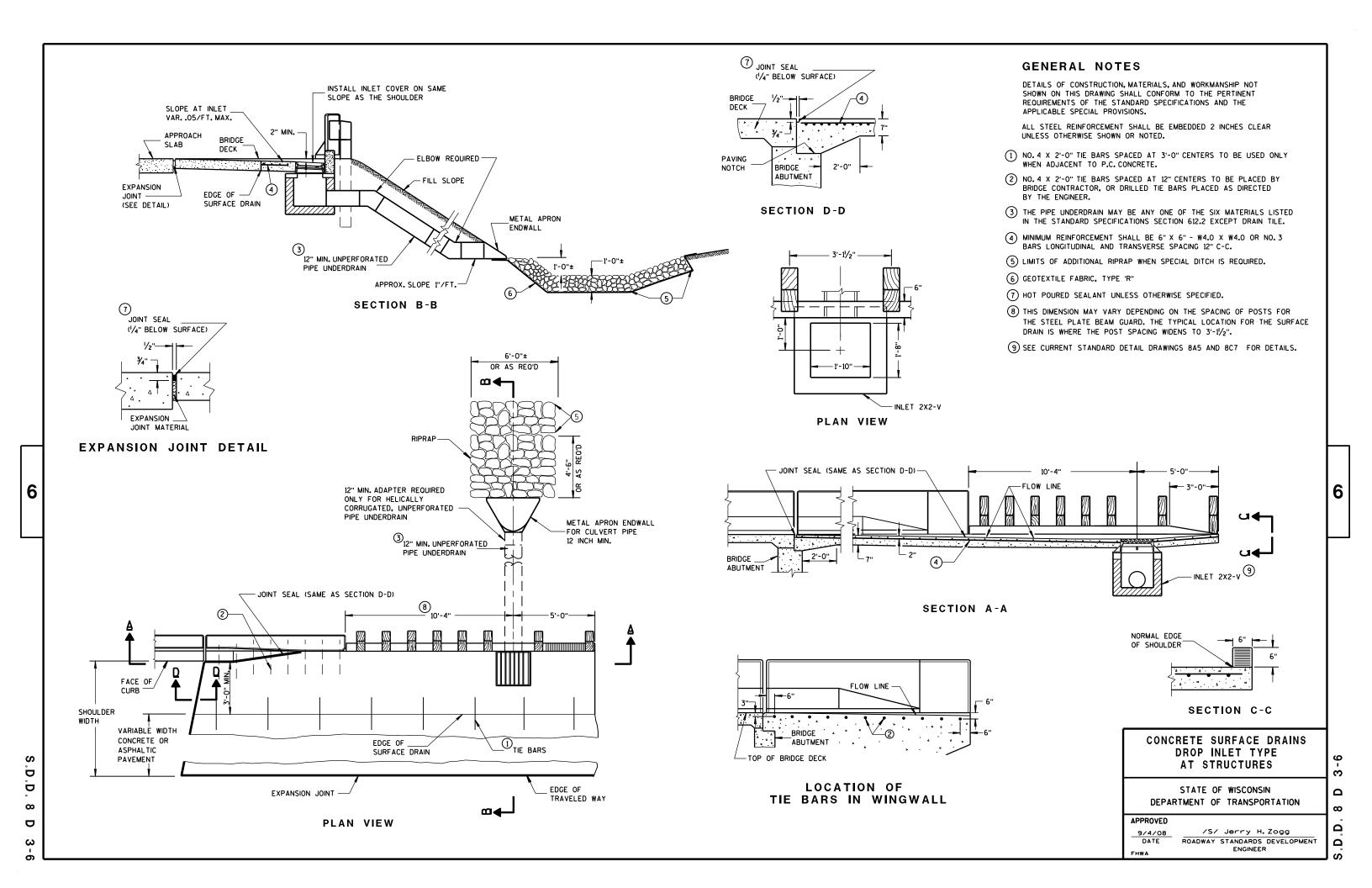






# Standard Detail Drawing List

08D03-06 08E10-02 13A05-05A	INLET PROTECTION TYPE A, B, C AND D SHOULDER RUMBLE STRIP, MILLING
13A05-05B	· · · · · · · · · · · · · · · · · · ·
13B02-07A	CONCRETE BRIDGE APPROACH
14B07-14A	
14B07-14B 14B07-14C	
14B07-14C 14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12 -6"
14B07-14D 14B07-14E	·
14B07-14E 14B07-14F	·
14B07-14F 14B07-14G	·
14B07-14G 14B07-14H	·
14B07-14H 14B15-08A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS  STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08C	·
14B16-04A	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B16-04B	ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16A	PAVEMENT MARKING (INTERSECTIONS)
15D03-02	
15D05 02 15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
102.0	THE SECOND







INLET PROTECTION, TYPE A

#### **GENERAL NOTES**

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

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

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

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



#### INLET PROTECTION, TYPE C (WITH CURB BOX)

#### **INSTALLATION NOTES**

#### TYPE B & C

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

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

#### TYPE D

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

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

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

#### INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

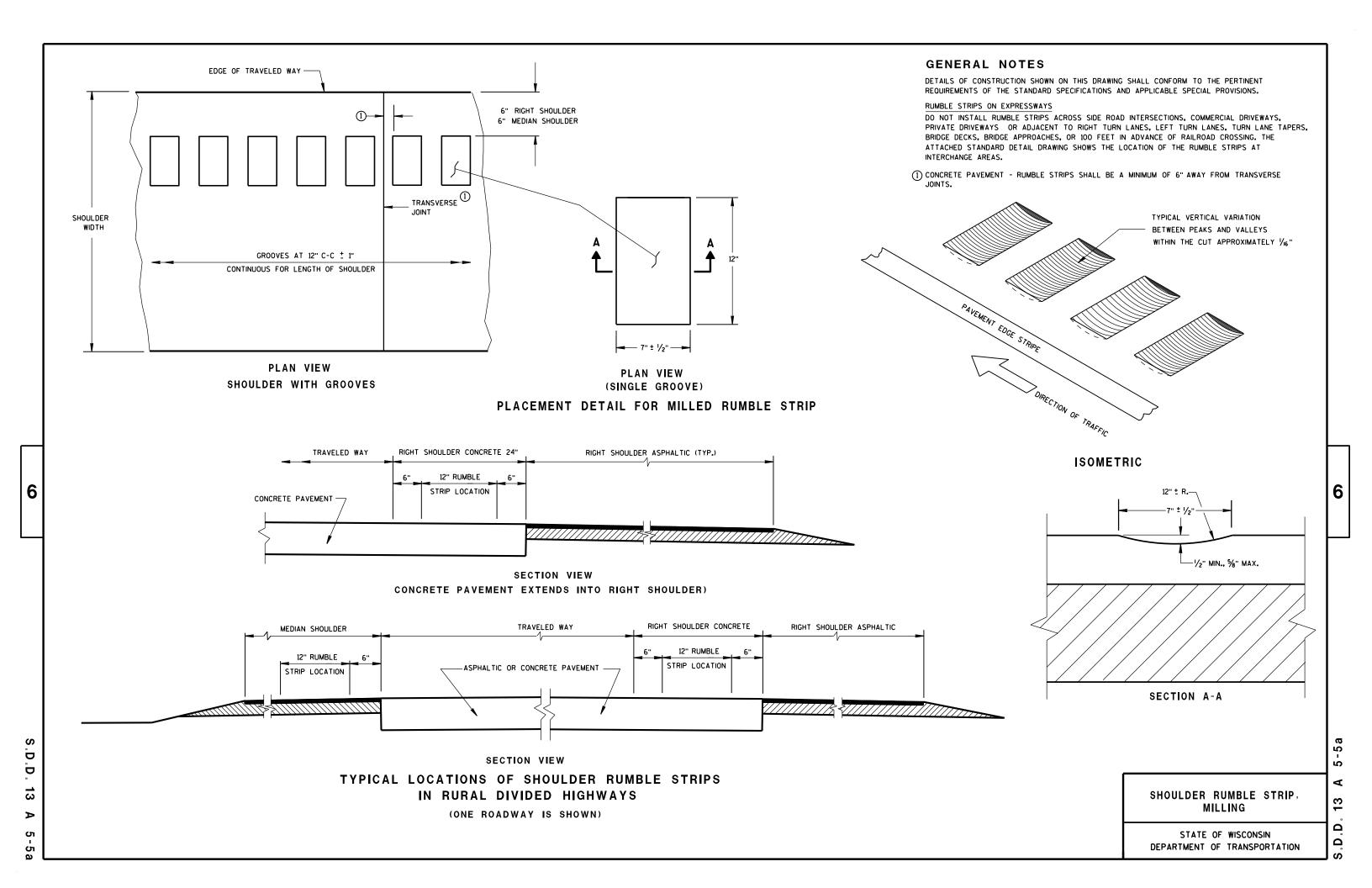
10/16/02

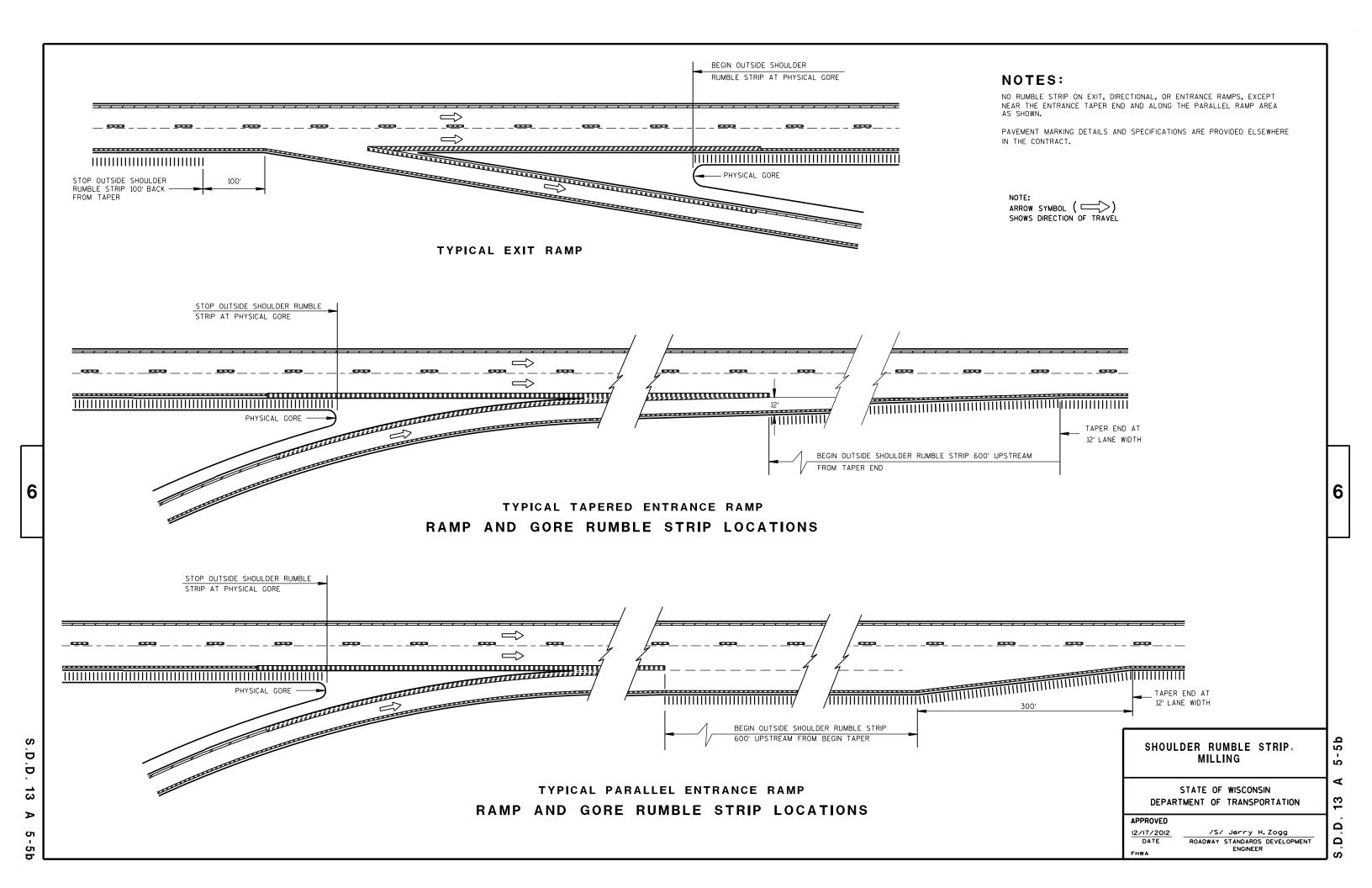
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

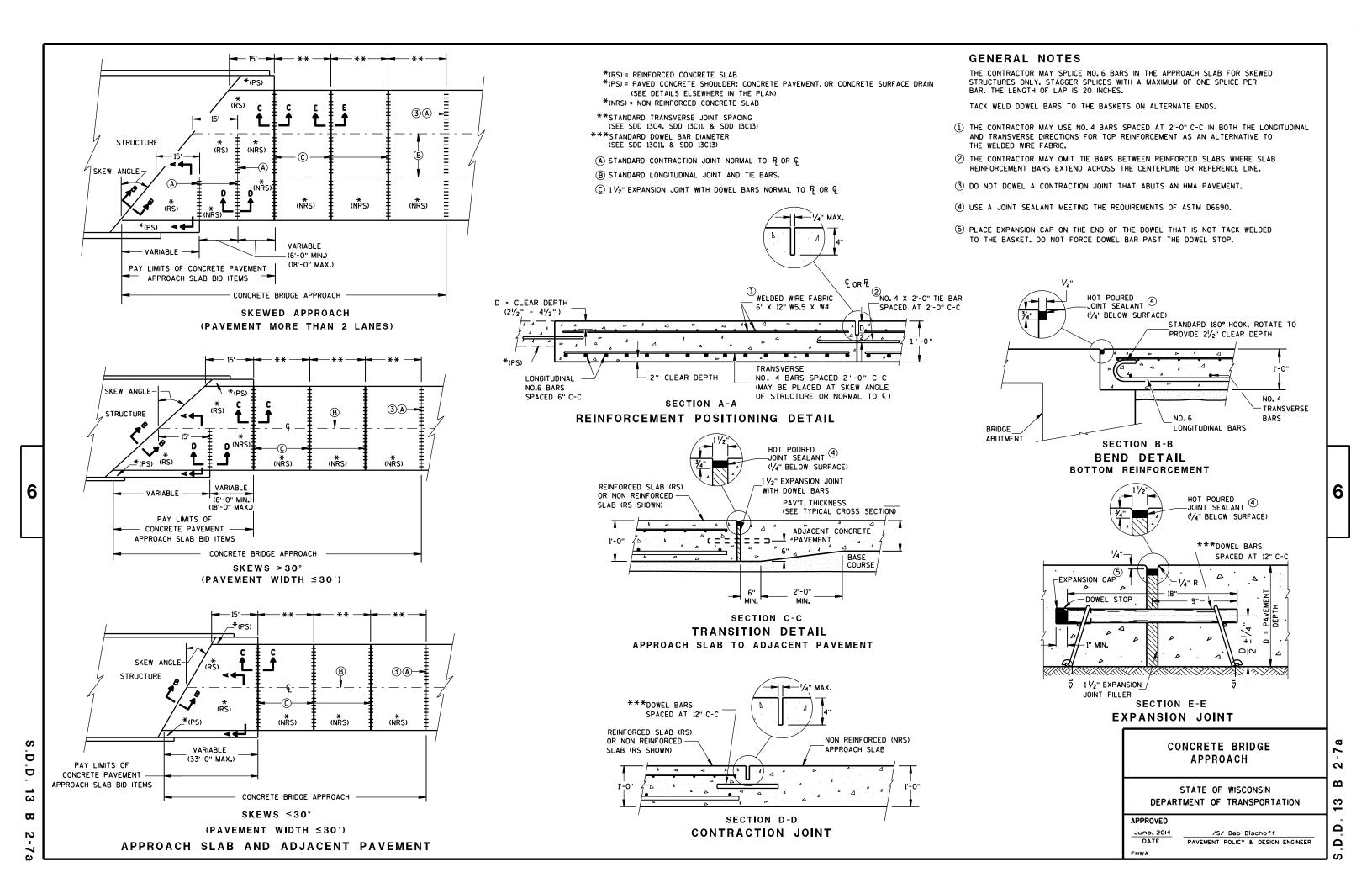
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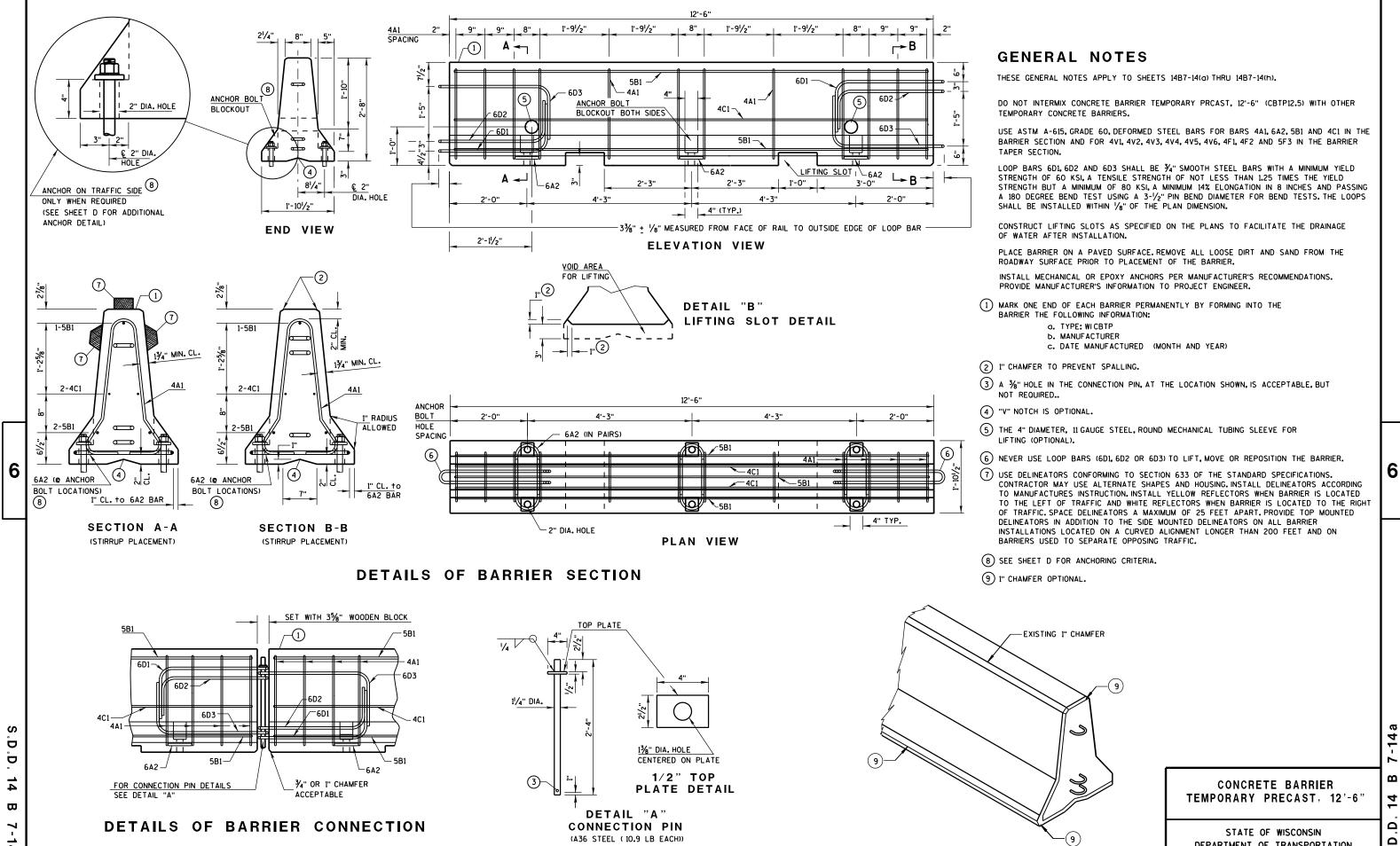
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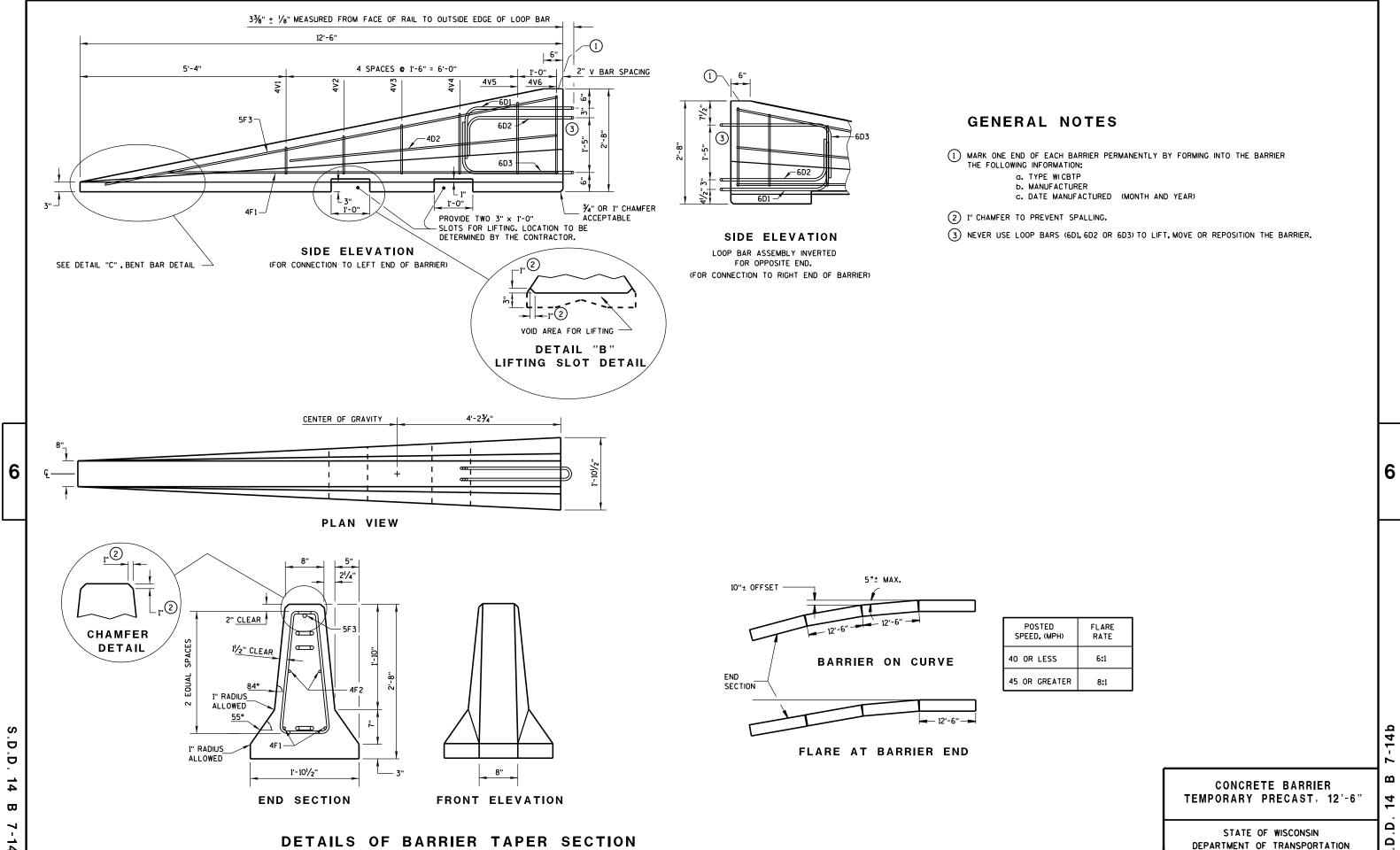








DEPARTMENT OF TRANSPORTATION



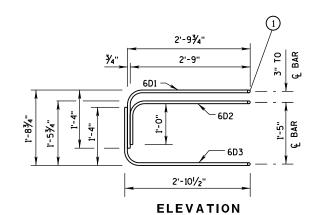
Ω

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

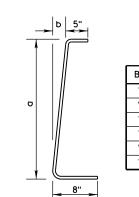
# BARRIER TAPER SECTION BILL OF MATERIALS

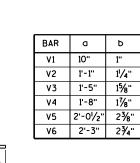
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TALEN SECTION				
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.	
4V1	4	2	1'-11"	
4V2	4	2	2'-2"	
4٧3	4	2	2'-6"	
4V4	4	2	2'-9"	
4V5	4	2	3'-2"	
4V6	4	2	3'-4"	
4F1	4	2	12'-0"	
4F2	4	2	7'-6"	
5F3	5	1	11'-9"	
LOOP ASSEMBLY				
6D1	6	1	8'-5"	
6D2	6	1	7'-7"	
6D3	6	1	8'-6"	
		•	•	



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

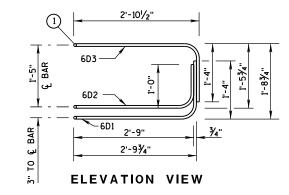
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

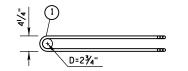
TAPER BARRIER SECTION

# BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

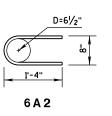
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

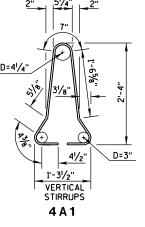




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)





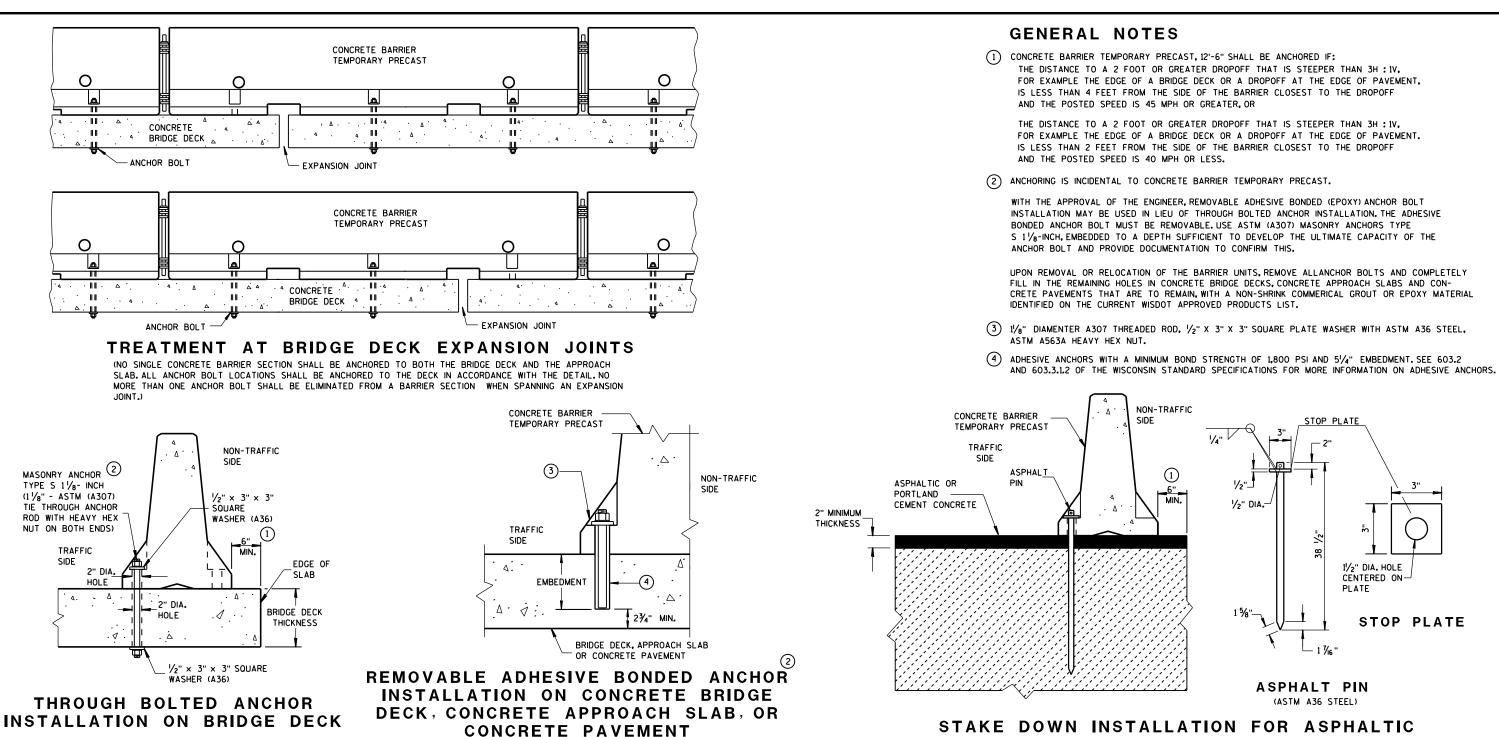
#### BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

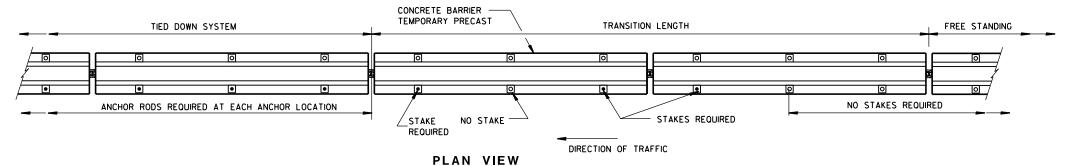
.D.D. 14 B 7-14c

6



## STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

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,)

6

D

 $\Box$ 

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

STATE OF WISCONSIN

**CONCRETE BARRIER** 

TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

CENTERED ON-

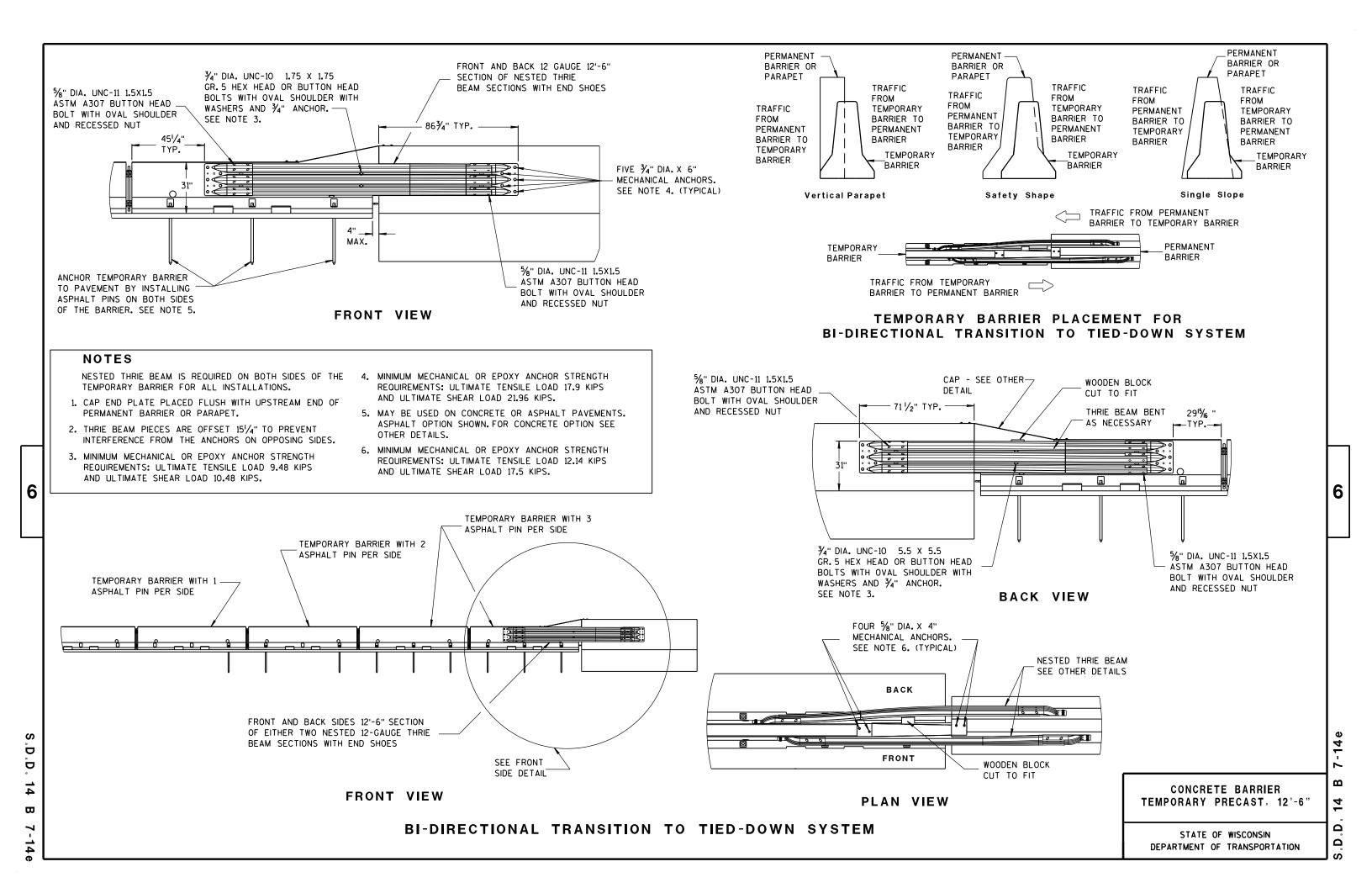
STOP PLATE

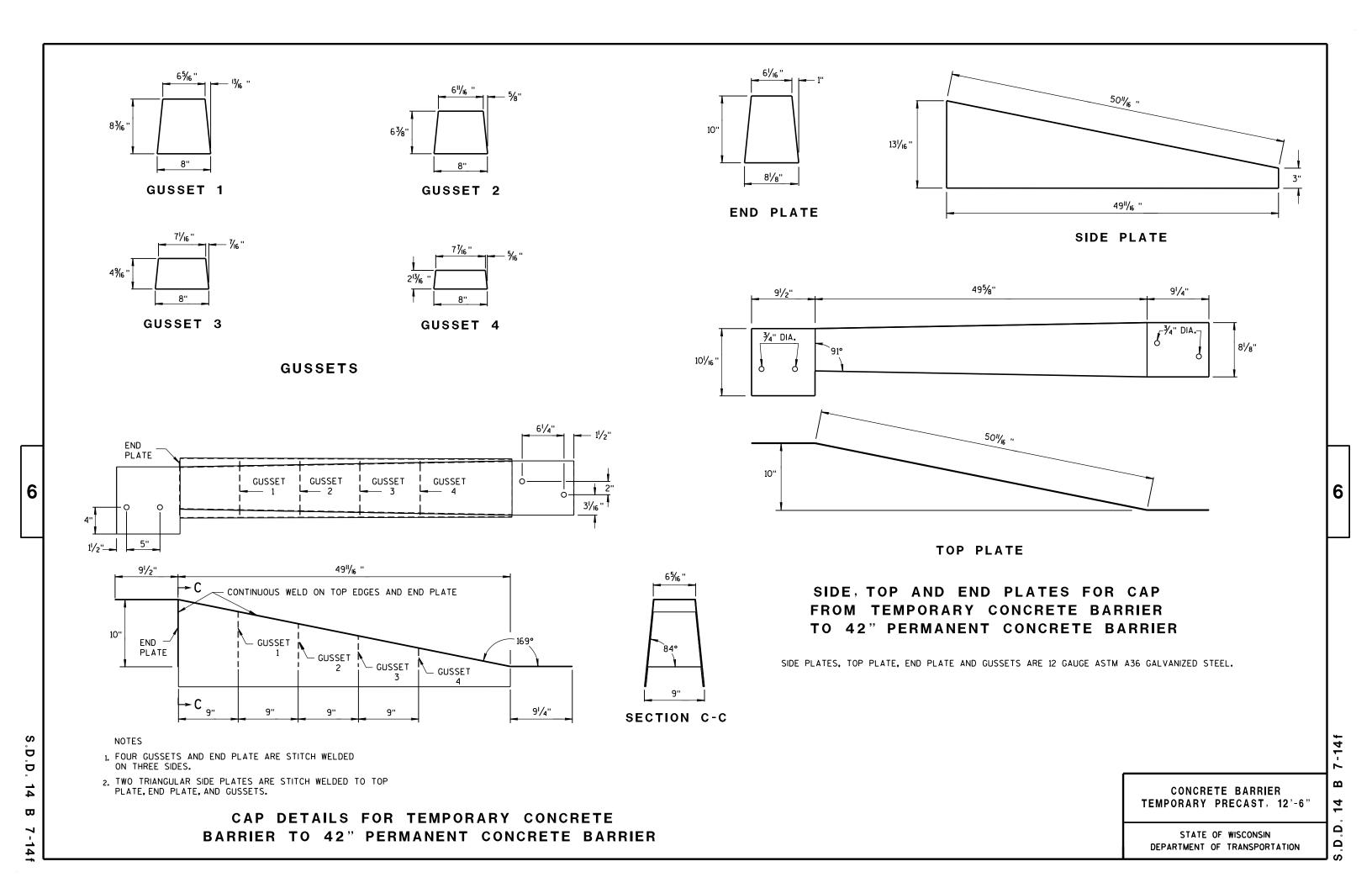
PLATE

DEPARTMENT OF TRANSPORTATION

4 Δ Δ

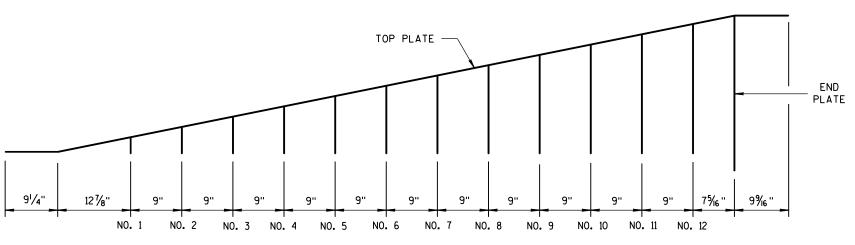
6





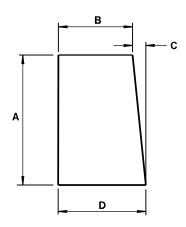
6

D Ď



**GUSSET LOCATION** 

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



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET No.	A	В	С	D
1	21/8"	73/4"	1/4"	8
2	4"/16 "	7% "	1/2"	8
3	61/2"	73/8"	11/16 "	81/16 "
4	85/16"	73/16"	7∕8"	8½ <sub>6</sub> "
5	101/8"	7"	1 ½ <sub>6</sub> "	81/16 "
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> / <sub>16</sub> "	1 1/4"	81/16"
7	13¾"	65%"	1 ½6"	81/16"
8	15% "	6¾6"	1 % "	81/16"
9	173/8"	61/4"	1 <sup>13</sup> / <sub>16</sub> ''	8½6"
10	193/6"	6½ <sub>6</sub> "	1 15/16 "	81/16 "
11	21"	5 1/8"	23/6"	8½ <sub>6</sub> "
12	22 <sup>13</sup> / <sub>16</sub> "	5"/16 "	25/6"	81/16"

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

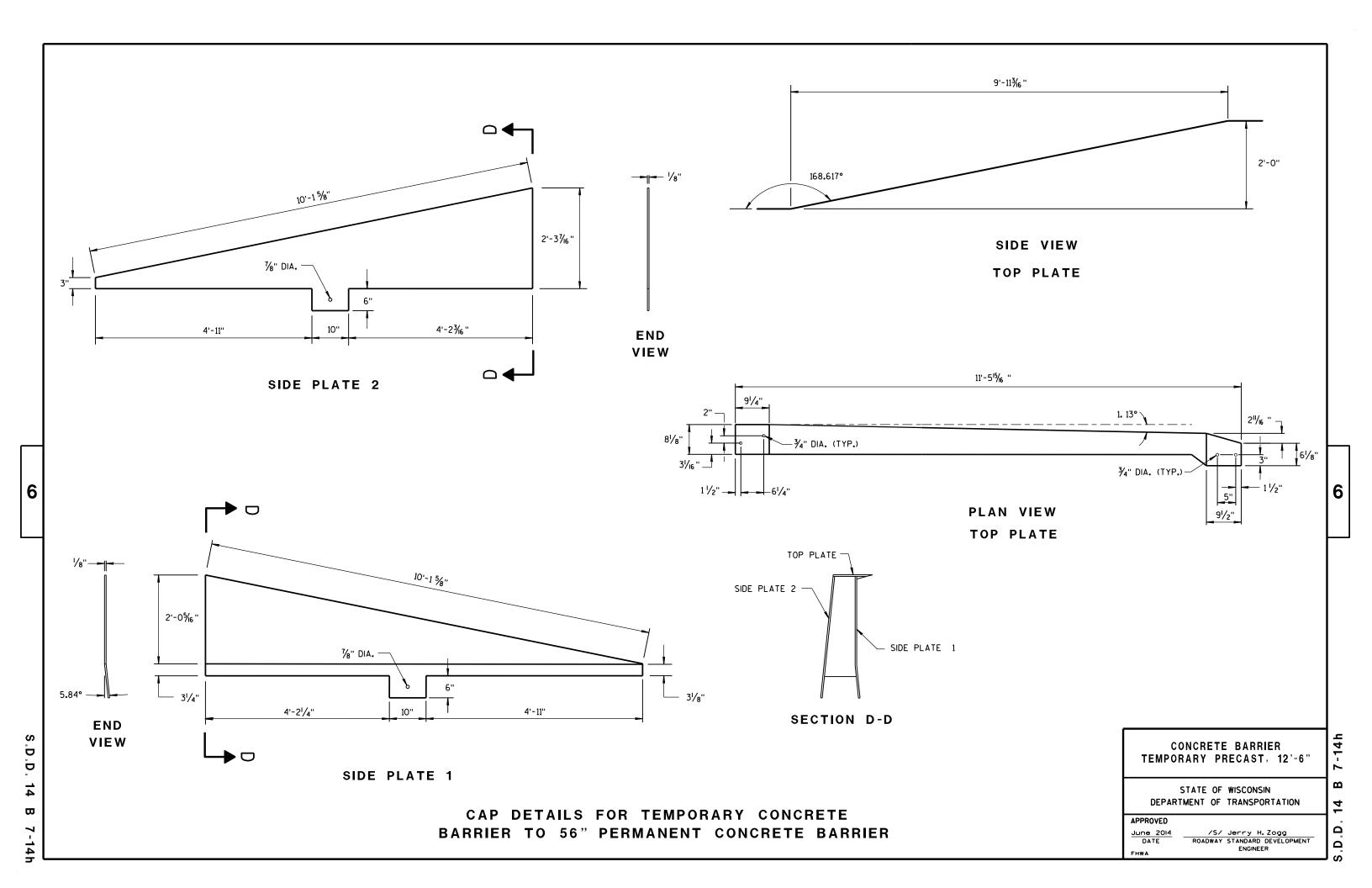
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

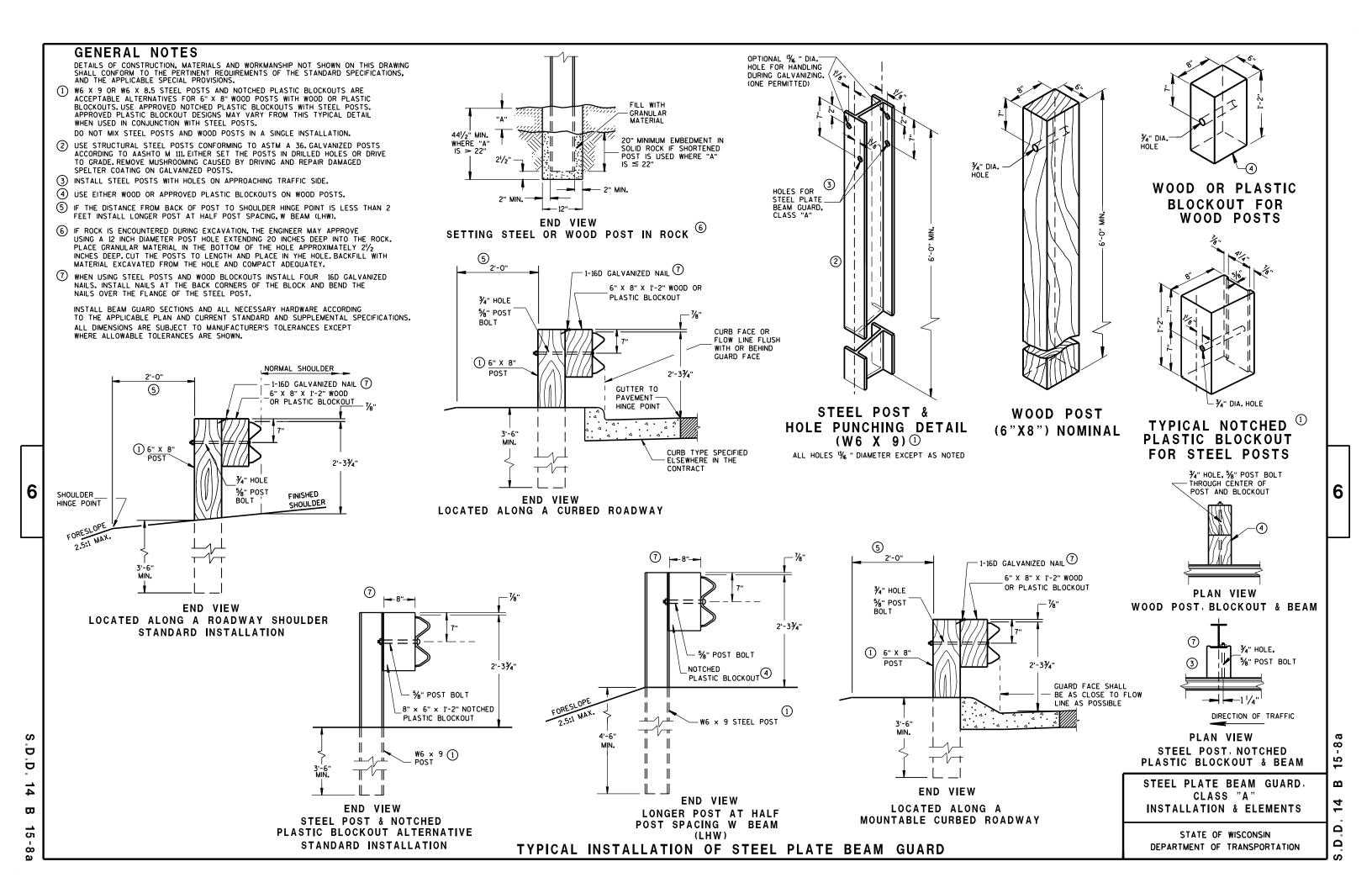
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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FRONT VIEW

POST SPACING STANDARD INSTALLATION

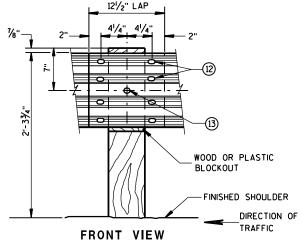
SECTION THRU W

SYMMETRICAL

∕-12 GAGE

BEAM

¯ABOUT €



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

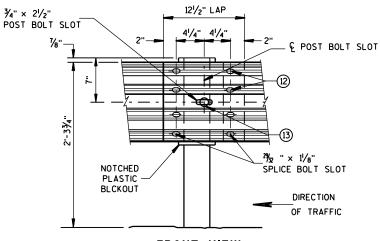
#### GENERAL NOTES

- (8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- (1) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (12) 8 5%" \* X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (3) %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER UNDER NUT.

# 12'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM 3'-1\/2" C-C 3'-1\/2" C-C 3'-1\/2" C-C 3'-1\/2" C-C POST POST POST POST SPACING SPACING SPACING SPACING FINISHED DIRECTION OF TRAFFIC

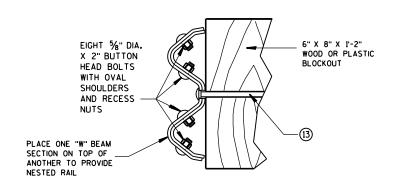
FRONT VIEW

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



FRONT VIEW
BEAM SPLICE AT STEEL POST

# TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

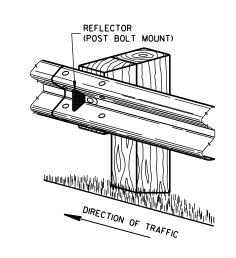


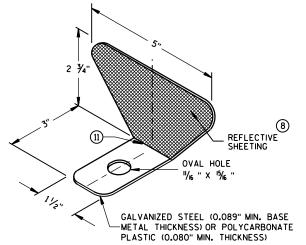
**NESTED W BEAM (NW)** 

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

	9
REFLECTOR	SPACING

	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY TRAFFIC	< 500,	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	> 500. < 500.	25' C-C 50' C-C	1 100	6
TWO WAY TRAFFIC	> 500, < 500,	50' C-C 100' C-C	2 11	3





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION  $^{\circ}$ 

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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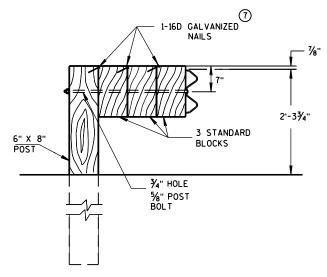
6

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#### DETAIL FOR DOUBLE BLOCKS

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

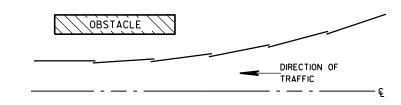


#### DETAIL FOR TRIPLE BLOCKS

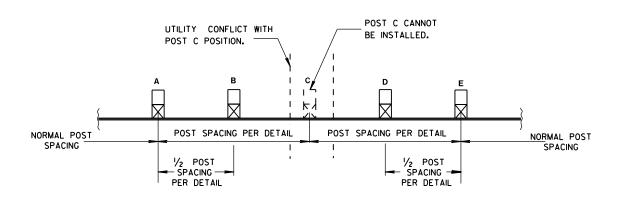
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

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

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



# PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS 6

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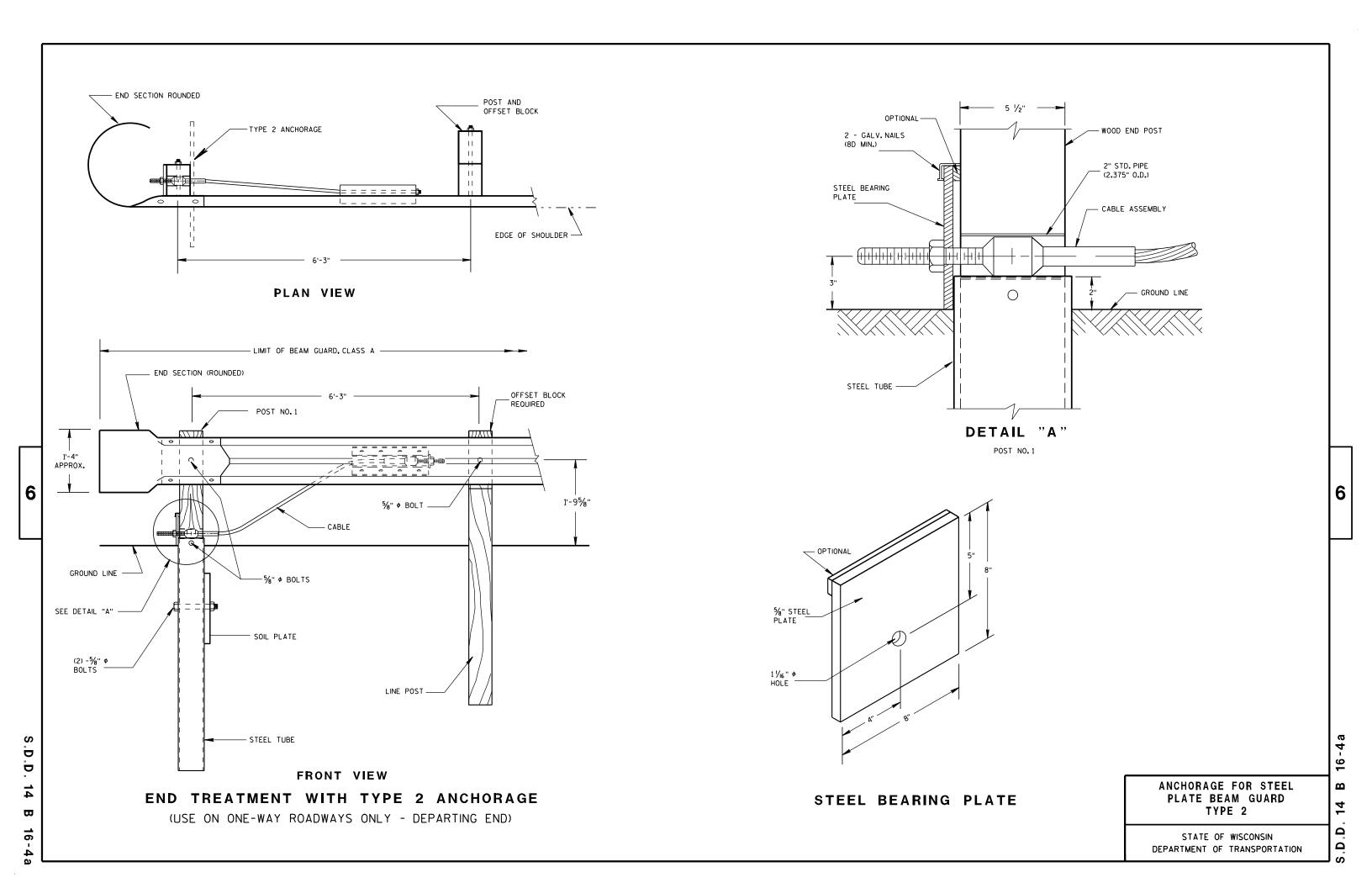
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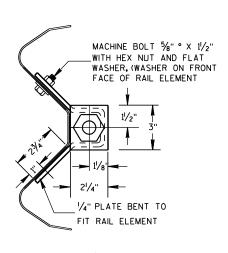
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
FHWA

DATE
FOR THE PROPOSED PROBLEM OF THE PROBLEM OF THE

6

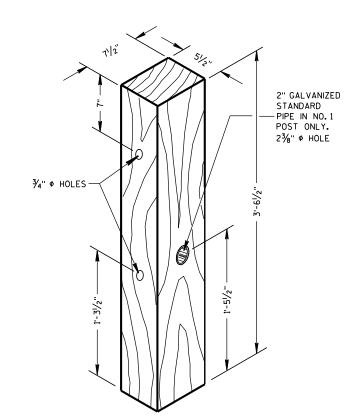




FRONT VIEW

END VIEW

#### ANCHOR PLATE DETAIL



6

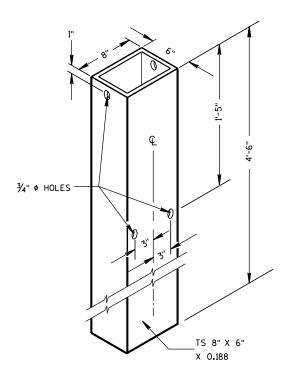
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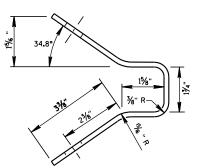
16

WOOD BREAKAWAY POST

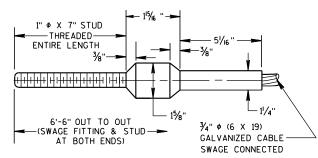


STEEL TUBE

STEEL TUBE SHALL CONFORM TO REQUIREMENTS OF ASTM A500

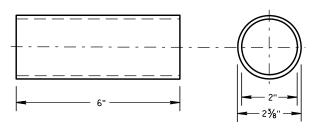


#### END VIEW OF BRACKET



#### CABLE ASSEMBLY

CABLE, SWAGE FITTING, STUD AND NUT SHALL DEVELOP A MINIMUM BREAKING STRENGTH OF 40,000 LB (TIGHTEN UNTIL TAUT)



#### BREAKAWAY TERMINAL POST SLEEVE

GALVANIZED STANDARD STRENGTH STEEL PIPE, ASTM 53 GRADE "B"

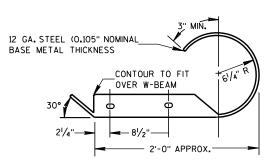
#### **GENERAL NOTES**

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

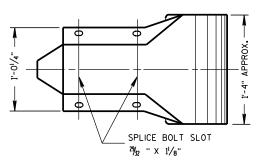
STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-500 GRADE B OR ASTM A-501.

POST NO.1 SHALL BE WOOD BREAKAWAY POST INSERTED AND BOLTED INTO STEEL TUBE.

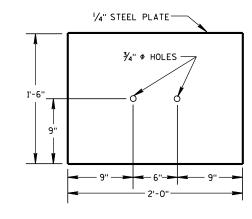
TYPE 2 ANCHORAGE SHALL CONSIST OF A STEEL TUBE, SOIL PLATE WOOD BREAKAWAY POST, BEARING PLATE, ANCHOR PLATE, CABLE ASSEMBLY AND ALL ASSOCIATED HARDWARE, ALL STEEL PARTS SHALL BE GALVANIZED.



**PLAN VIEW** 



FRONT VIEW
W BEAM END SECTION ROUNDED



SOIL PLATE

# ANCHORAGE FOR STEEL PLATE BEAM GUARD TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

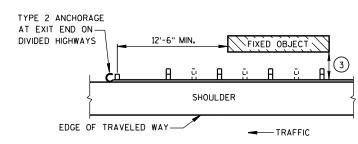
8/21/2007 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

3-4b

S.D.D. 14 B 16-4

#### BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES **EXIT END - ONE WAY TRAFFIC** 

#### **GENERAL NOTES**

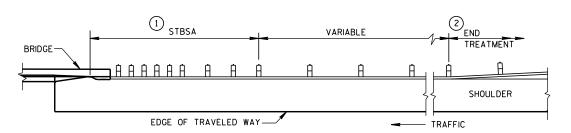
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

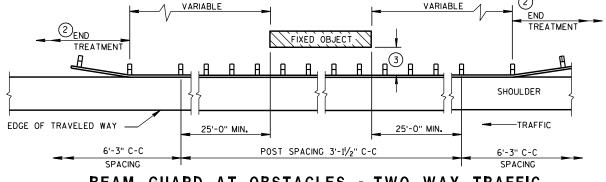
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

- (1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) SEE CURRENT SDD 14B20.
- 2 USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

3	MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
	3'-6"	3' - 11/2"
	4'-6"	6' - 3"



BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")

END TP 1 STBSA VARIABLE TREATMENT BEGIN FLARE END FLARE → EDGE OF FINISHED SHOULDER BRIDGE->SHOULDER **─** TRAFFIC EDGE OF TRAVELED WAY -FLARE RATE PER TABLE 1 AT RIGHT (FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES)

BEAM GUARD AT NARROW BRIDGES (FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1 FLARE RATES FOR BEAM **GUARD AT NARROW BRIDGES** 

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A' AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
8-21-07	/S/ Jerry H.Zogg
DATE	ROADWAY STANDARDS DEVELOPMENT
FHWΔ	ENGINEER

6

b

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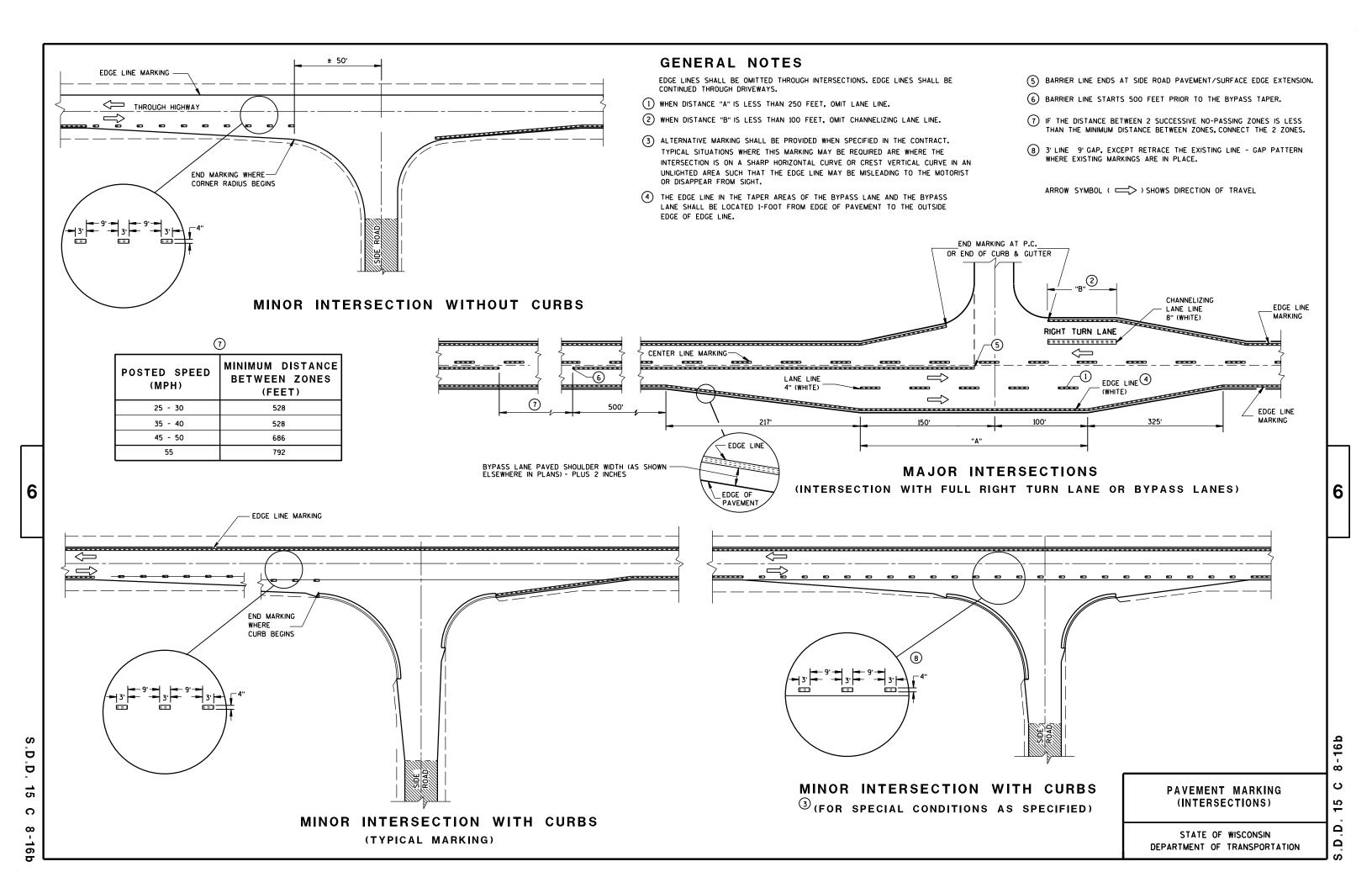
18

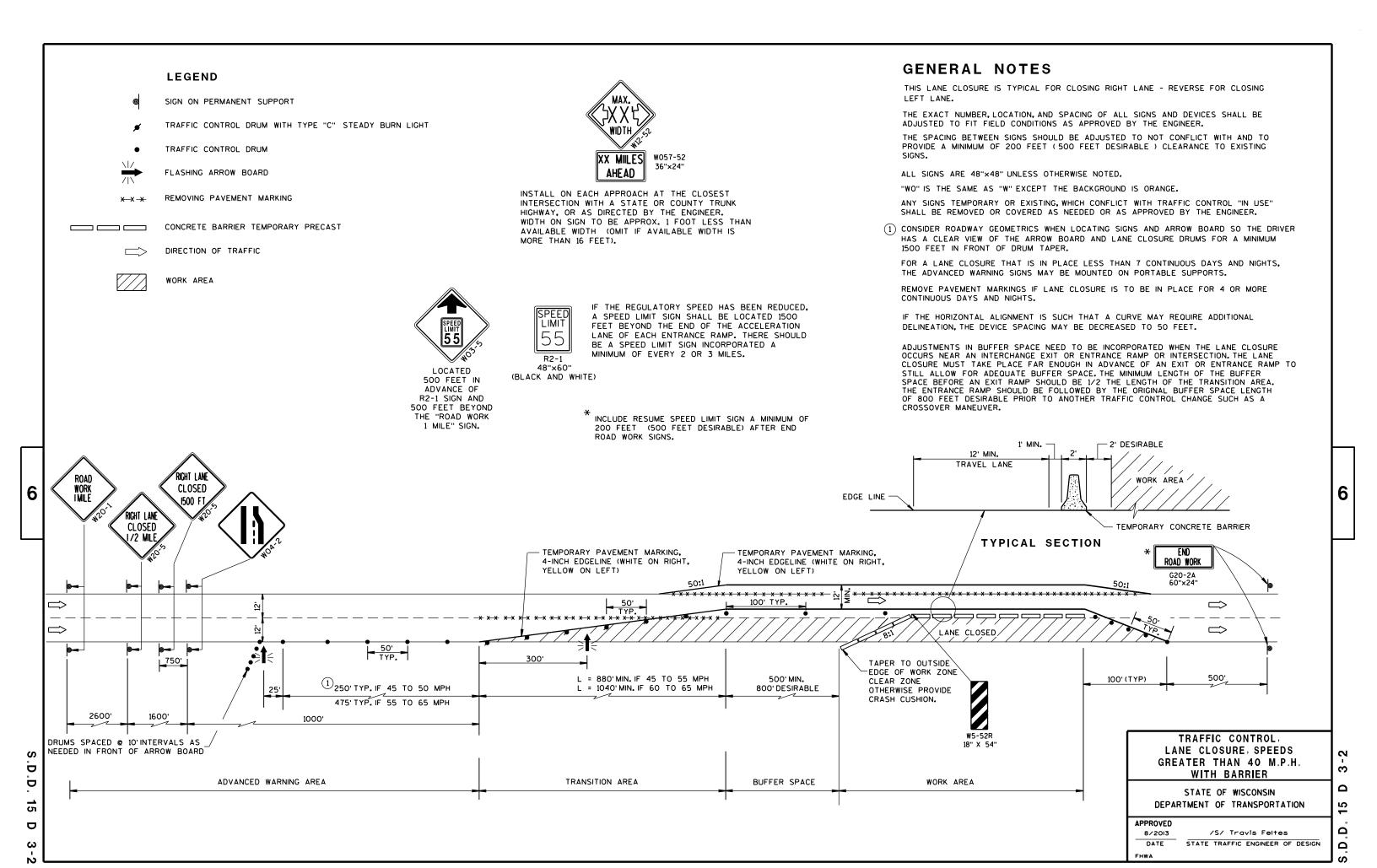
6

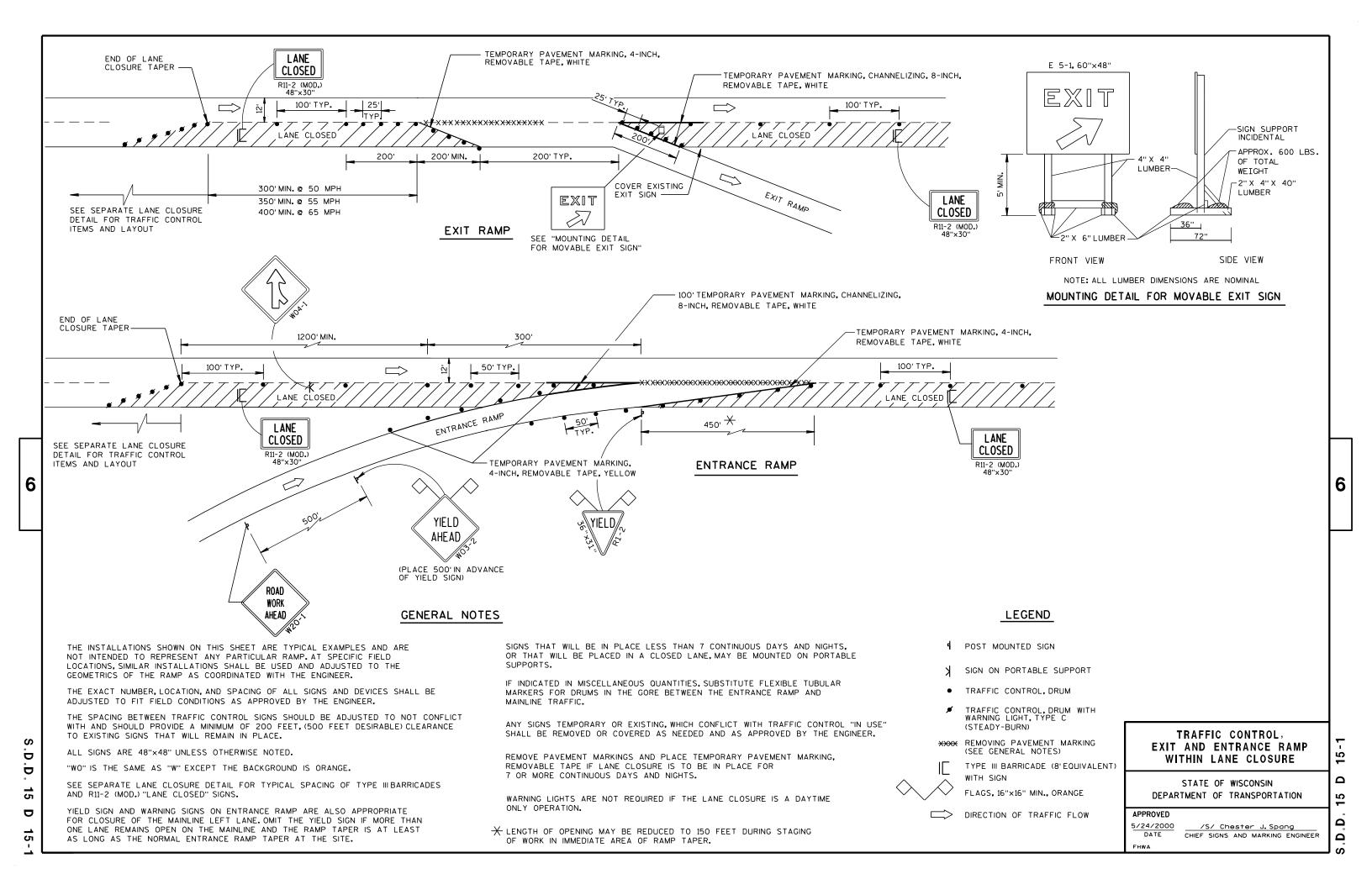
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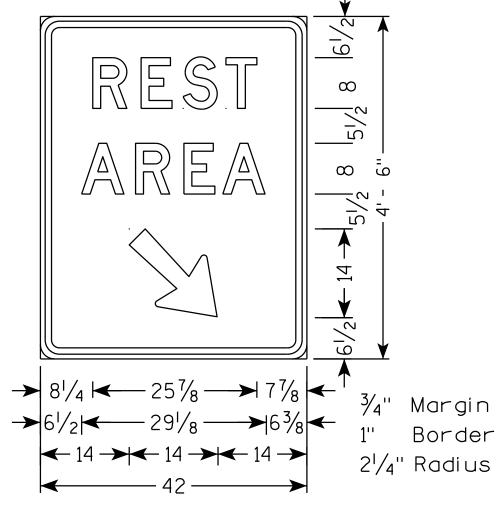




- 1. All Signs are Type II Type F Reflective
- 2. Color:

Background - ORANGE Message - BLACK

3. Message Series - D



HWY: IH 39

2  $\frac{3}{4}$ " Margin Border  $2^{1}/_{4}$ " Radius

FILE NAME : C:\CAEFiles\Projects\tr\_d4\4392A014.DGN

PROJECT NO: 1166-07-76

PLOT DATE: 22-DEC-2014 11:54

COUNTY: MARQUETTE

PERMANENT SIGNING

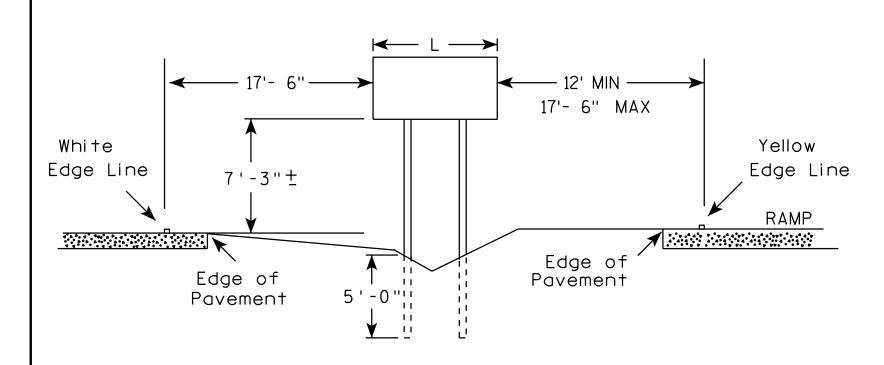
PLOT BY: mscsja

PLOT SCALE: 15.132994:1.000000

WISDOT/CADDS SHEET 42

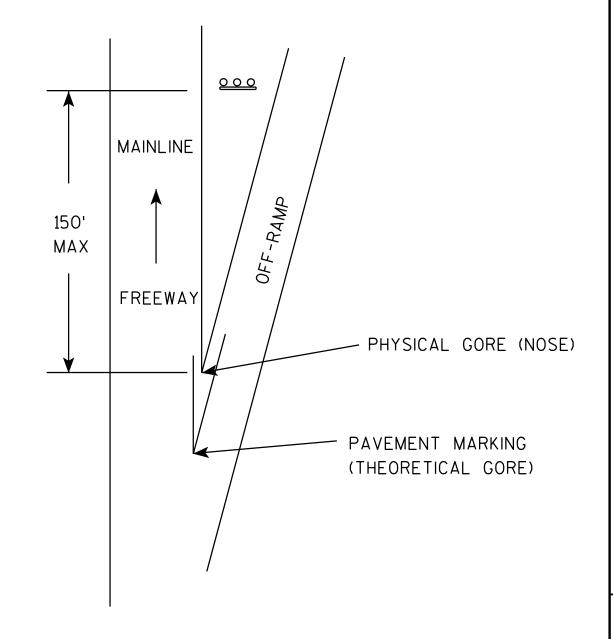
SHEET NO:

PLOT NAME :



#### GENERAL NOTES

- 1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
- 2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
- 3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
- 4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
- 5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
- 6. The  $(\overline{+})$  tolerance for the mounting height is 3 inches.



TYPICAL INSTALLATION OF TYPE II SIGNS ON WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

DATE 2/06/14

PLATE NO. 44-2.3

SHEET NO:

PROJECT NO:

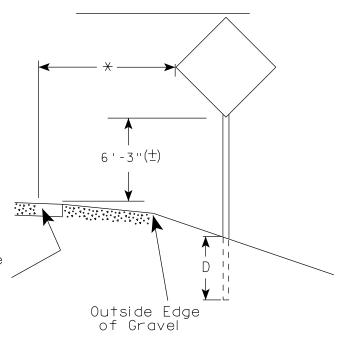
PLOT DATE: 06-FEB-2014 12:36

PLOT BY: mscsja

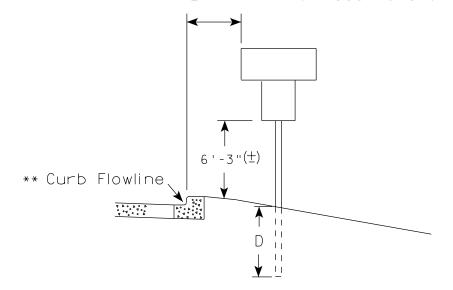
## URBAN ARFA

2' Min - 4' Max (See Note 6) 7'-3"(士) \*\* Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



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



5'-3"(生)  $D^{-1}$ Outside Edae of Gravel

White Edgeline Location

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

HWY:

That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

PLOT DATE: 12-NOV-2014 14:03

#### GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is  $7'-3''(\pm)$  or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is  $5' - 3'' (\pm)$ .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3"  $(\pm)$ . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ( $\pm$ ).

#### POST EMBEDMENT DEPTH

D
(Min)
4'
5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 11/12/14

PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43.DGN COUNTY:

PLOT BY: mscsja

PLOT NAME :

WISDOT/CADDS SHEET 42

PLOT SCALE: 99.237937:1.000000



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



#### **ELEVATION VIEW**

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



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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

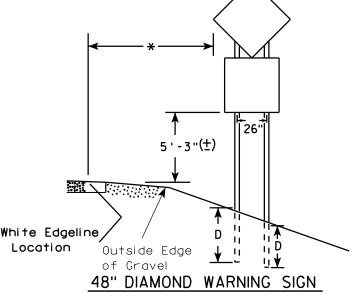
#### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways. mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\*\* See A4-3 sign plate for signs 4' or less in width or less than 20 S.F. in area.

#### URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) \*\* Curb **\*\*\*\***\ Flowline D **7000** White Edgeline

# 2'Min - 4'Max (See Note 6) 6'-3"(±) Curb Flowline. 48" DIAMOND WARNING SIGN

D 11



COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
<del>* * *</del>	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 120" less than 168"	12"	

HWY:

White Edgeline,

Location

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)		
L E		
168" and greater	12"	

Location

Outside Edae

of Gravel

#### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

PLATE NO. A4-4.13

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 12-NOV-2014 14:01

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

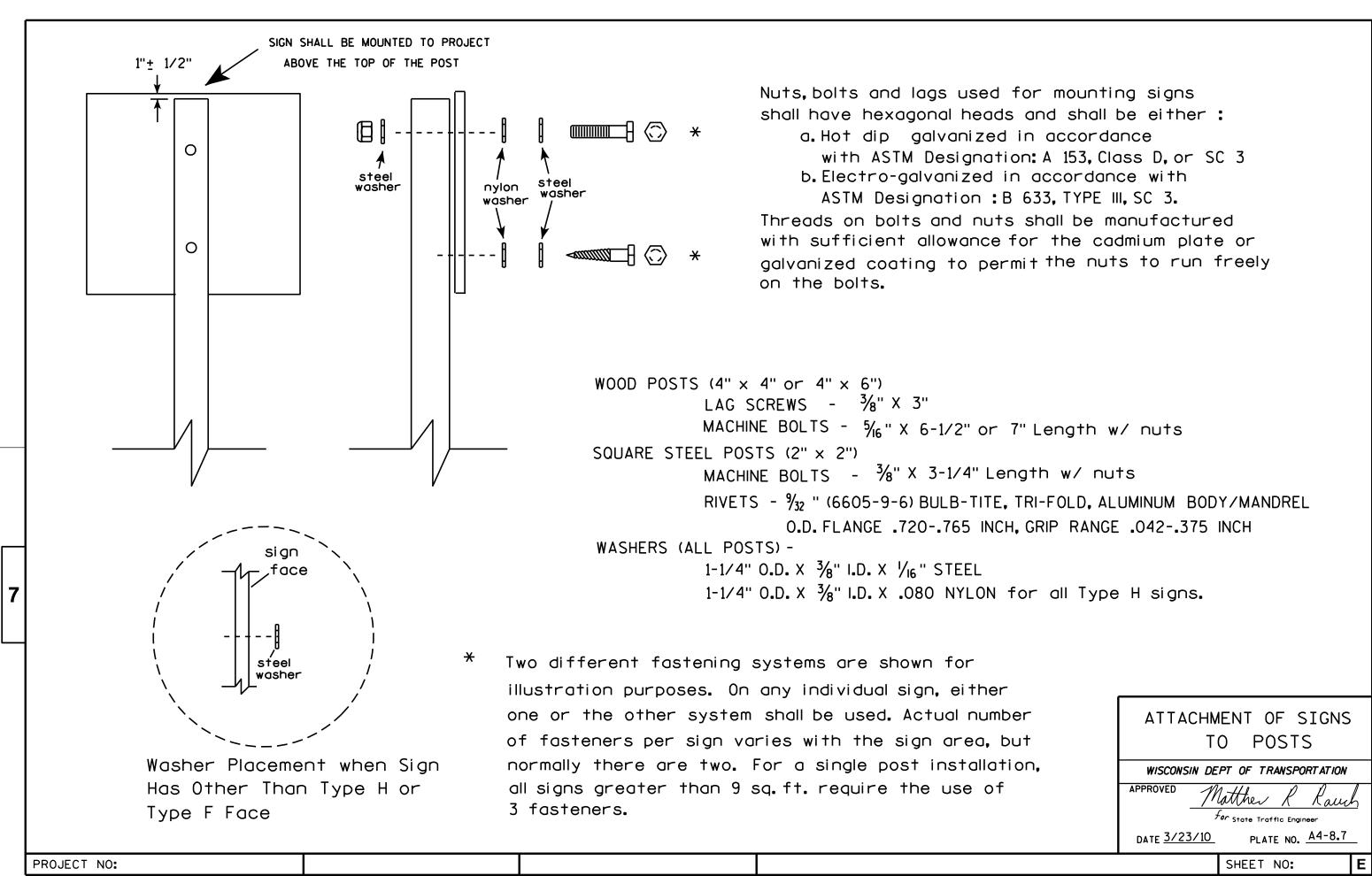
SHEET NO:

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 11/12/14





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

DATE 2/05/15

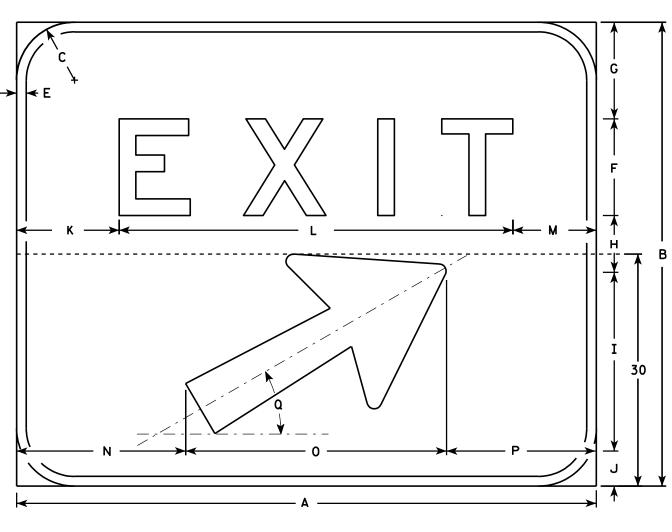
PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer

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

Background - Green Message - White (Type H reflective)

- 3. Message Series E
- 4. Corners may be square or rounded but borders shall be rounded as shown.
- 5. Base material for this sign shall be plywood and shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (-----).
- 6. Arrow is Type "A" from sign plate A1-1.
- 7. As per the Standard Spec's, this sign shall not have a vertical joint.



Metric equivalent for this sign is:

SIZE					
1					
2					
3					
4	1500	mm	X	1200	mm
5	1800	mm	X	1500	mm

PROJECT NO:

E5-1

Area sq. ft. SIZE Α Ε 0 2 3 5 % 18 1/2 3 % 10 % 40 3/4 8 % 17 1/2 27 15 1/2 30° 4 60 48 10 10 20.0 1.80 18 1/2 7 1/2 13 1/4 48 1/2 10 1/4 23 1/2 27 21 1/2 5 72 12 12 10 30.0 2.70 60 HWY: COUNTY:

STANDARD SIGN

E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/22/00

PLATE NO. E5-1.8

PLOT DATE: 12-OCT-2005 10:13

PLOT BY : DITJPH

PLOT NAME :

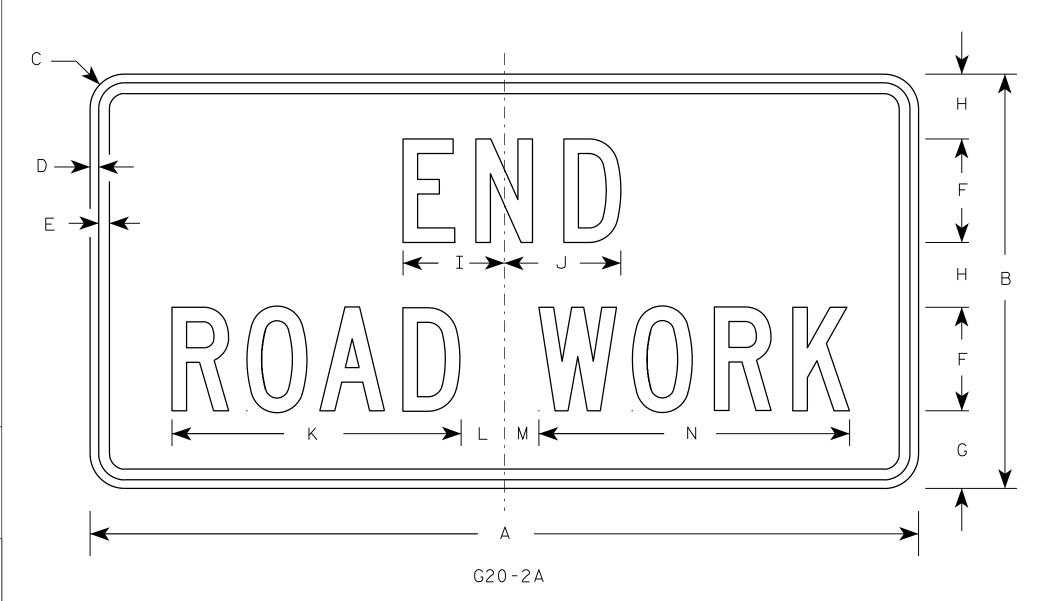
PLOT SCALE: 9.934722:1.000000

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

2. Color:

Background - 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	Т	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 AND UN A O N

Matther R Lauch

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

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Top Red - Bottom Blue (See Note 6) Message - White - See Note 6

- 3. Message Series See note 5
- 4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
- 5. M1-1 Numerals D Interstate - C

M1-1A - All copy - C

6. Permanent Signs

Message - Type H Reflective

Detour or other temporary signs

Background - Reflective Message - Reflective

7

Metric equivalent for these signs are:

M1-1

HWY:

SIZE	M1 - 1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

	1 300	1111111	X 900	J 111111	1 2 1	300 1	11111 X I	123 11111	<u>'</u>																	M1 - 1	W1-1A	M1 - 1	W1-1A
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	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 ½	15	24	17	7 1/8								30			3.13	3.91	<b>.</b> 36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36		·		3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4	·						·	45			7.03	8.79	<b>.</b> 81	1.05
5	36		·		3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 ½	11 3/4								45			7.03	8.79	<b>.</b> 81	1.05

COUNTY:

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew A

 $f_{or}$  State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\M11.DGN

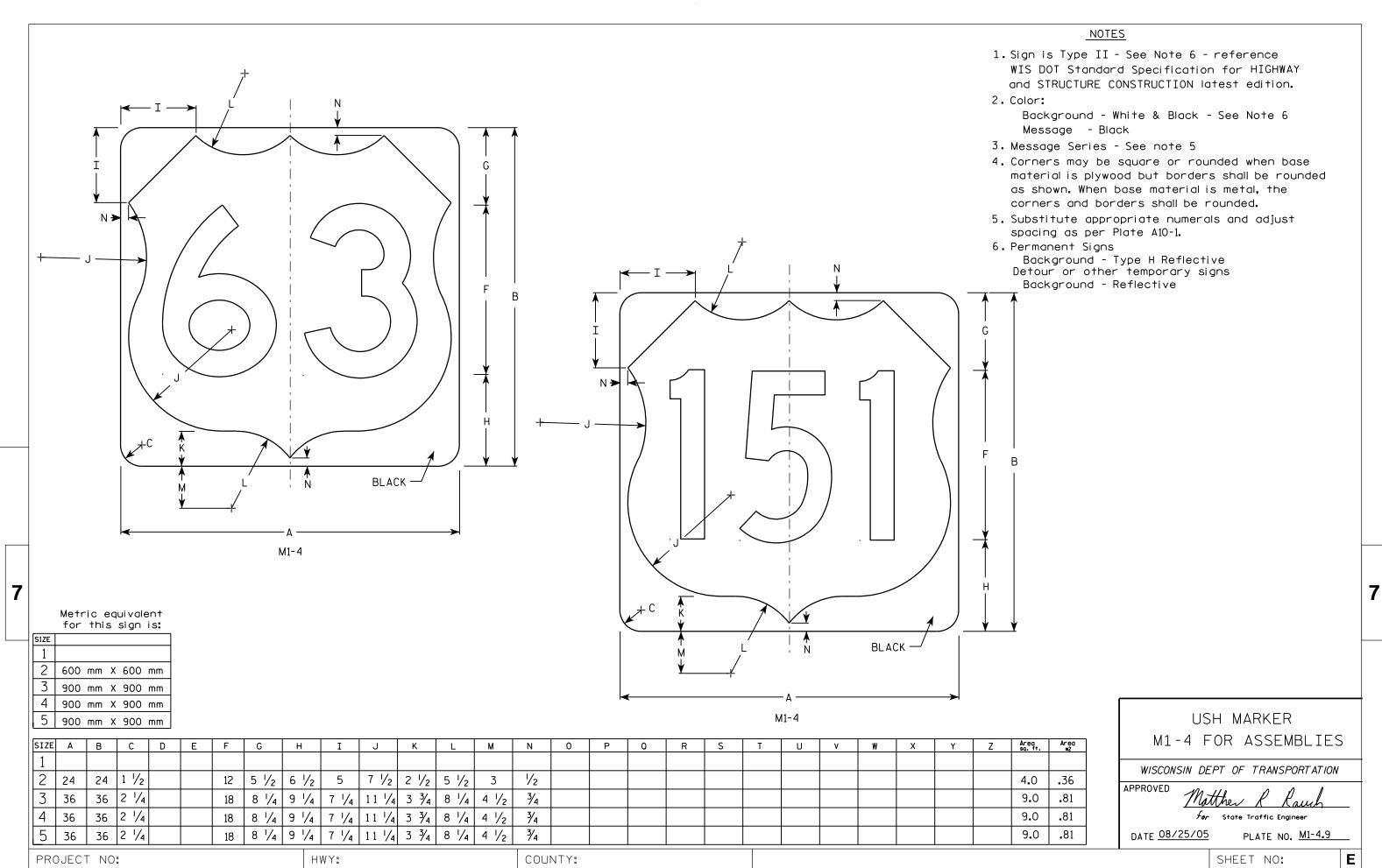
PROJECT NO:

PLOT DATE: 13-0CT-2005 14:49

M1-1A

PLOT BY : DITJPH PLOT NAME :

PLOT SCALE: 7.947778:1.000000



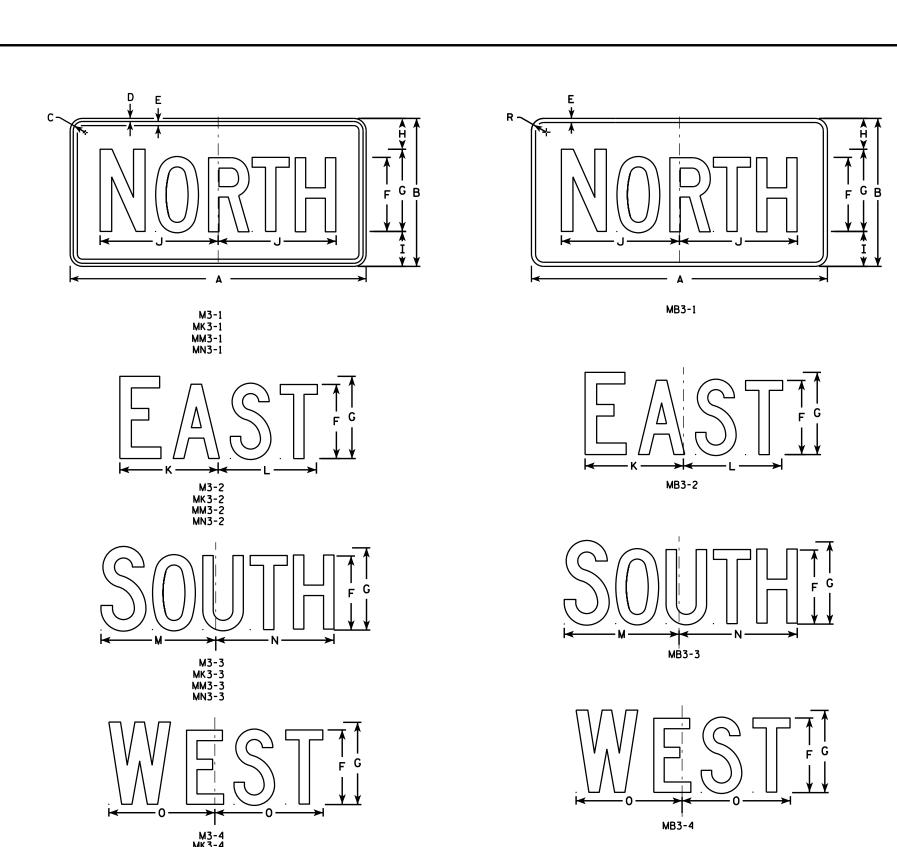
FILE NAME : C:\Users\Projects\tr\_stdplate\M14.DGN

PLOT DATE: 13-OCT-2005 14:52

PLOT NAME :

PLOT BY : DITJPH

PLOT SCALE: 5.960833:1.000000



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

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M3-1 thru M3-4 Background White

Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

6. Note the first letter of each direction is larger than the remainder of the message.

					MN3-4																					
SIZE	Α	В	С	D	E	F	G	Н	I	J K	L	М	N	0	Р	0	R	S	T	U	v	W	Х	Y	Z	Areq sq. ft.
SIZE 1																										
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4 7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8 12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8 12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8 12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

For State Traffic Engineer

DATE 6/30/14 PLATE NO. M3-1.13

SHEET NO:

07.001/5...14.675054.4.000000

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\M31.DGN

HWY:

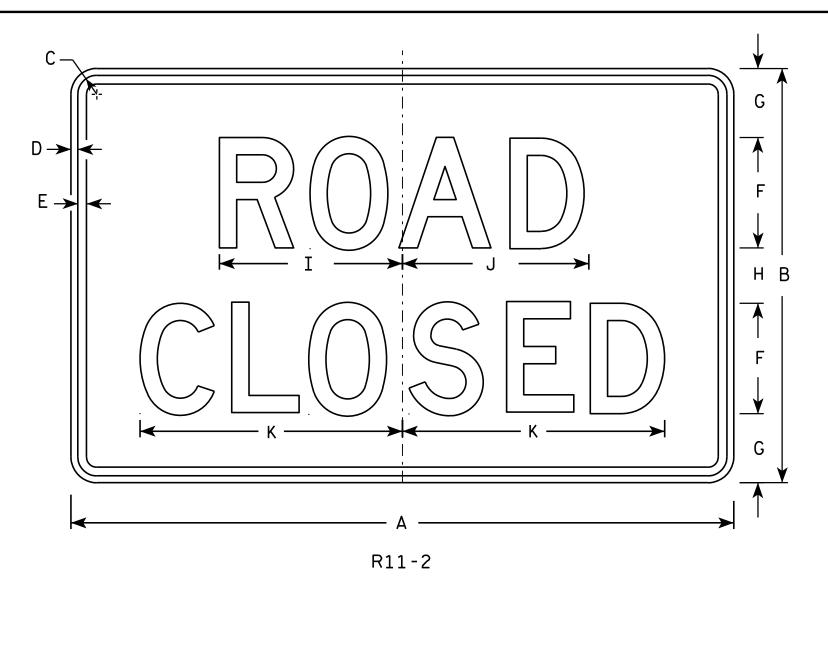
PROJECT NO:

PLOT DATE: 30-JUN-2014 12:53

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 11.675051:1.000000

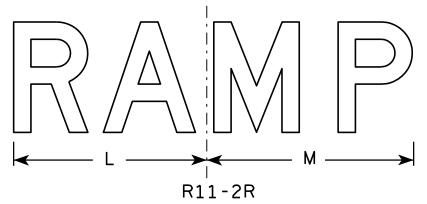


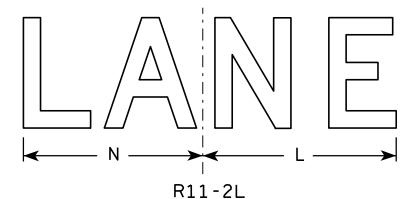
### <u>NOTES</u>

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

Background - White Message - Black

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





SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
PRO	DJECT	NO:						HWY:					С	OUNTY	<b>':</b>												

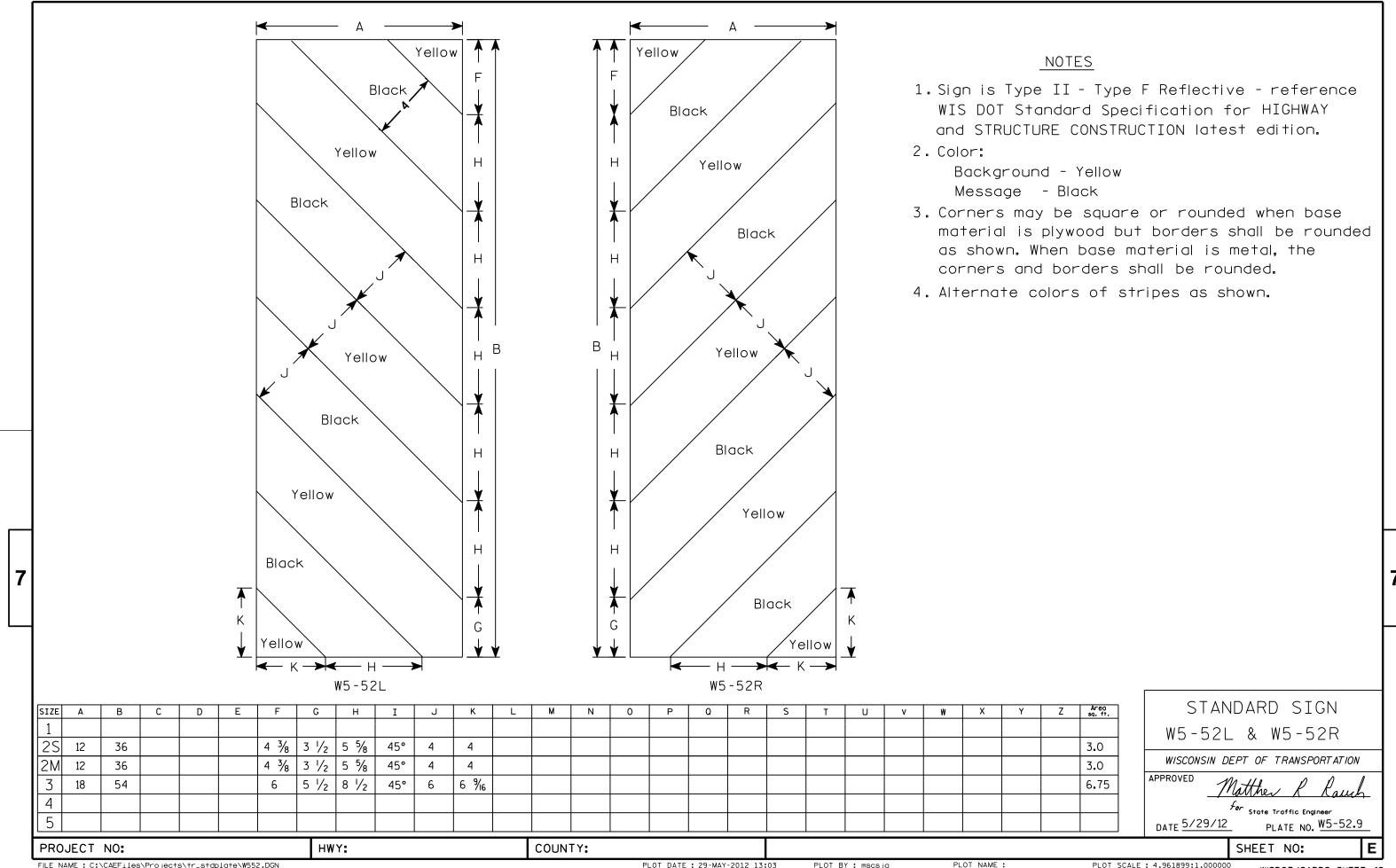
STANDARD SIGN R11-2

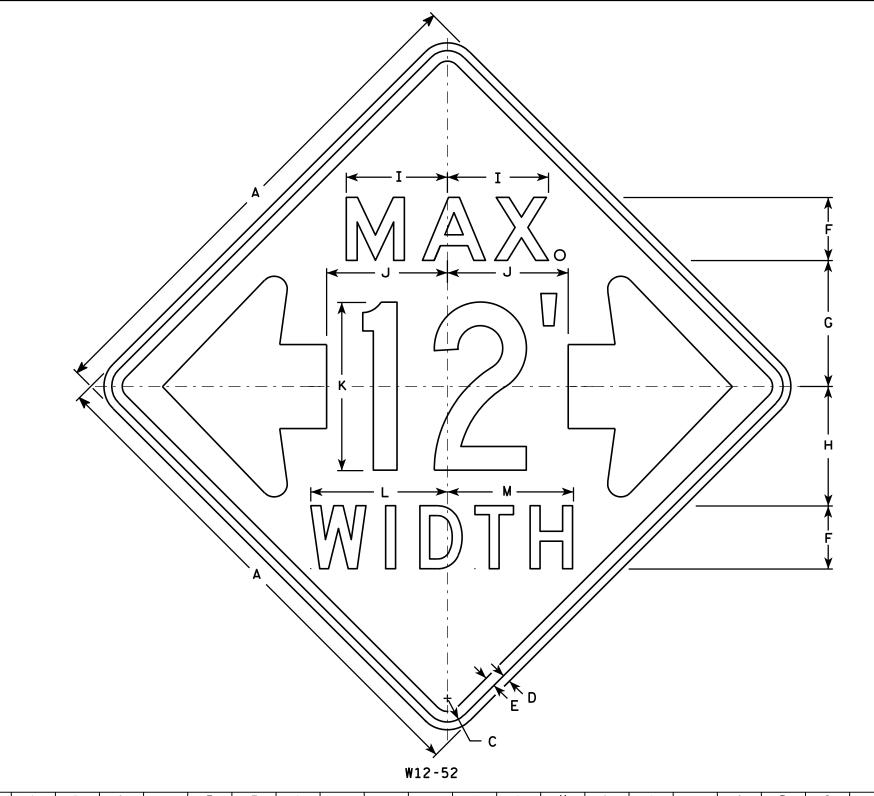
WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

PLOT BY: mscj9h

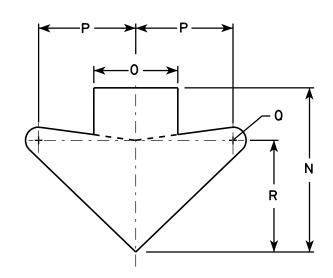




- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series 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. The top line is series E, the numerals are series C, and the bottom line is series D.
- 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5																											

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W1252.DGN

PROJECT NO:

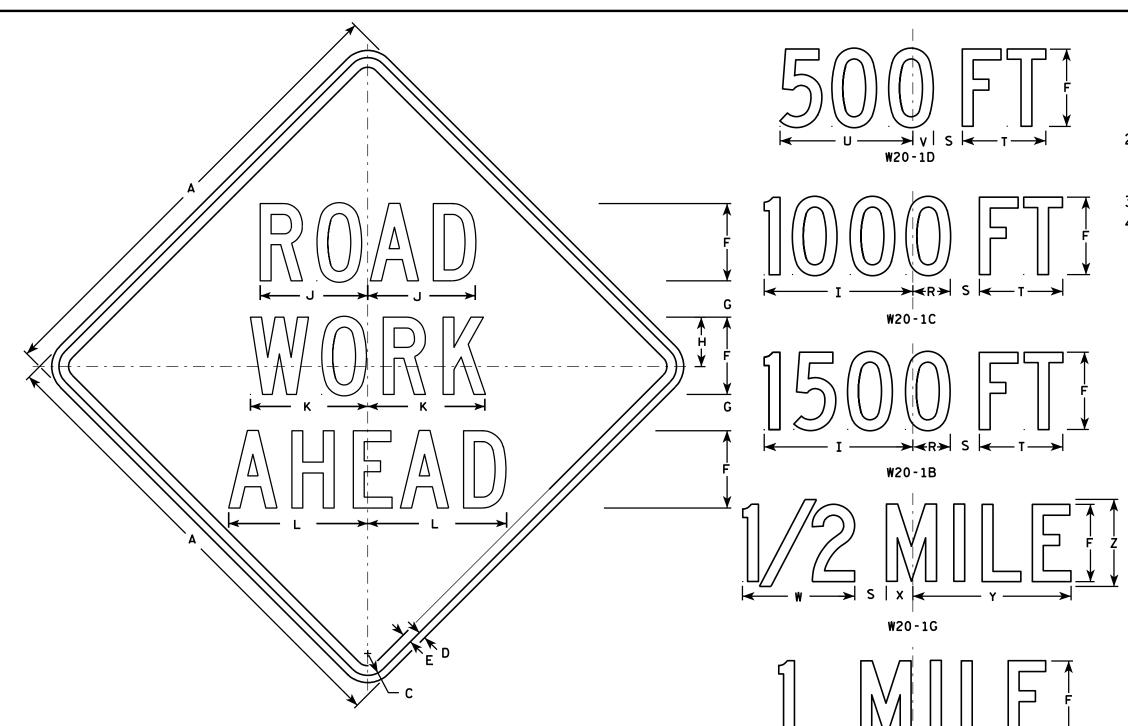
HWY:

PLOT DATE: 16-MAR-2011 14:45

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.137199:1.000000



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 |

W20-1A

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

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

Matther R Rauch

for State Traffic Engineer

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

SHEET NO:

1 3/4 10 3/4

16 3/8 9

1 3/8

2 1/4

2 1/4

1/2

3/4

3/4

SIZE A

3

4

5

36

48

48

48

48

48

PROJECT NO:

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 %

## <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 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. " LANE" is Series B. Allother copy is Series C.

500 FT

W20-5C

1500 FT



PLOT BY: mscj9h



									W20-	5A																	W 4	20-3F
SI	ZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	36 6 1 5/8 5/8 3/4 5 3/8 2 1/2 13 1/8 10 3/4 9 1/2 14 1/4 13 5/8 12 12 1 3/8 1 1/8 4 1/2 3 1/2 9 1 3/8 10 1/8 2 1/2 1 3/4 8 9.0 48 8 2 1/4 3/4 1 7 1 1/4 3 1/4 17 1/2 14 3/8 12 5/8 19 18 3/8 16 14 1/4 1 3/8 1 1/2 6 4 5/8 12 2 5/8 7 1/2 13 1/2 3 3/8 2 3/8 10 5/8																										
2	?S	48 8 2 1/4 3/4 1 7 1 1/4 3 1/4 17 1/2 14 3/8 12 5/8 19 18 3/8 16 14 1/4 1 7/8 1 1/2 6 4 5/8 12 2 5/8 7 1/2 13 1/2 3 3/8 2 3/8 10 5/8 16.0																										
2	M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
	5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

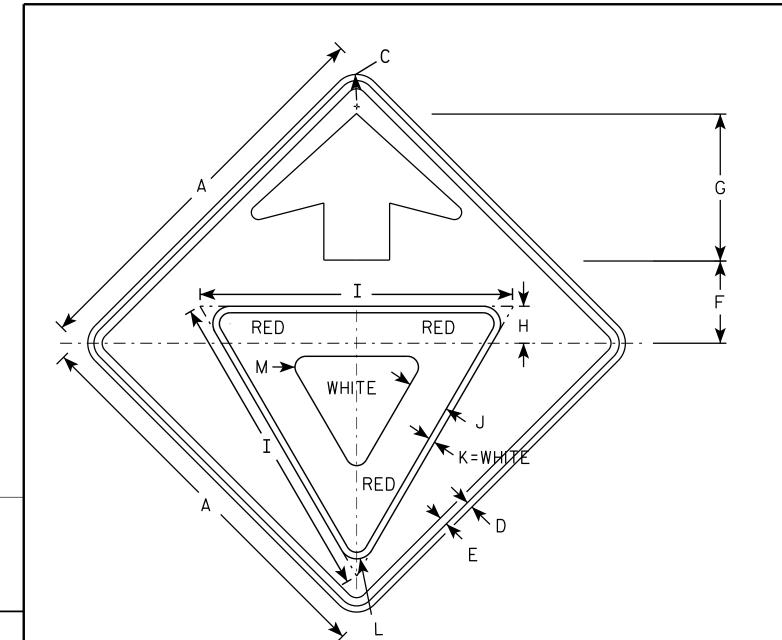
SHEET NO:

PROJECT NO:

HWY:

W20-56A

W20-55A

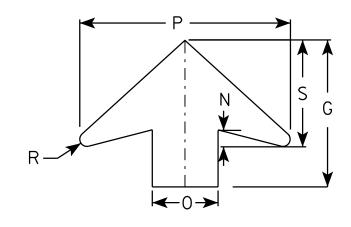


W03-2

## NOTES

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

Background - ORANGE Arrow & Border - BLACK Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	υ	v	W	Х	Y	Z	Area sq. ft.
1	36		1 %	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		<b>7</b> /8	13								16.0
2M	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		<b>7</b> /8	13								16.0
3	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		<b>7</b> /8	13								16.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		<b>7</b> /8	13								16.0
5	48		2 1/4	3∕4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<b>7</b> /8	13								16.0

STANDARD SIGN WO3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVE

For State Traffic Engineer

DATE 11/20/13 PLATE NO. W03-2.1

SHEET NO:

PROJECT NO:

FILE NAME: C:\CAEFiles\Projects\tr\_stdplate\W032.DGN

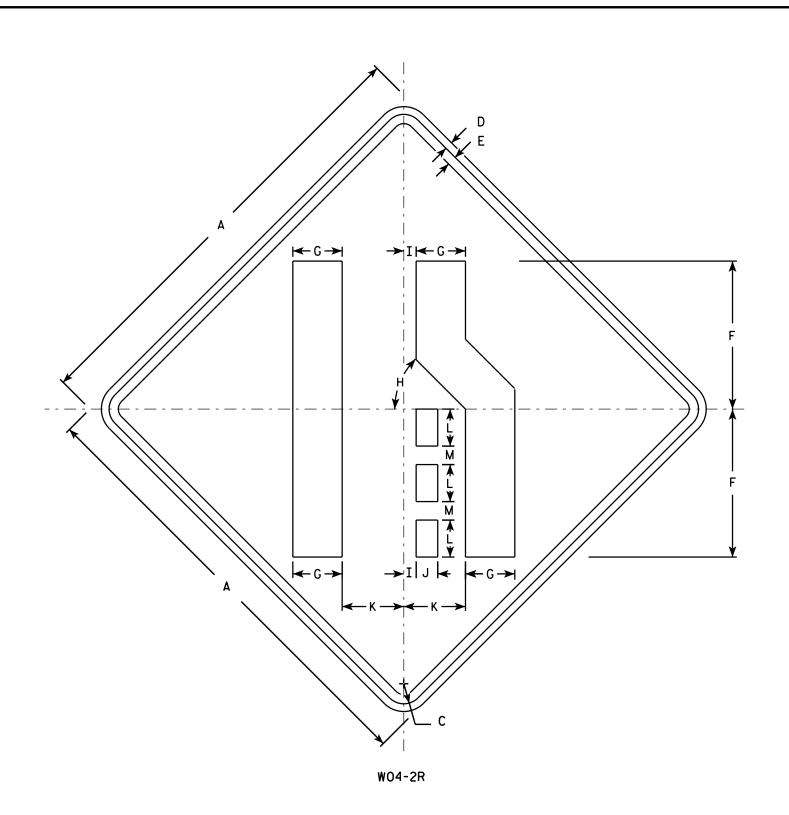
PLOT DATE: 20-NOV-2013 11:18

PLOT BY: mscsja

- 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. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE 1 % 5/8 3/4 12 45° 1 3/4 5 1 1/2 4 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 45° 1 ¼ 2 ¾ 6 ¾ 3/4 5 3/8 48 2 1/4 2 16.0 2 1/4 3 48 3/4 5 % 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43

- 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.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

W057-52

\* See note 5

SIZE	Α	В	С		D	Е	F	G	Н	I	J	К	L	M	N	0	ρ	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
1	36	24	1 1/	3	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	13													6.0
2S	48	36	1 3/	3	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
2M	48	36	1 3/	3	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
3	48	36	1 3/	3	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
4	48	36	1 3/	3	1/2	5/8	8	7	6	6 %	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	36	1 3/	3	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/20/13

SHEET NO:

HWY:

PROJECT NO:

PLOT BY: mscj9h

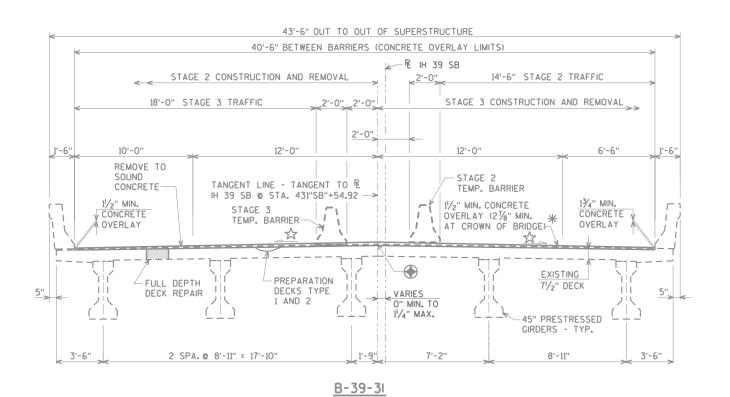
PLATE NO. W057-52.1

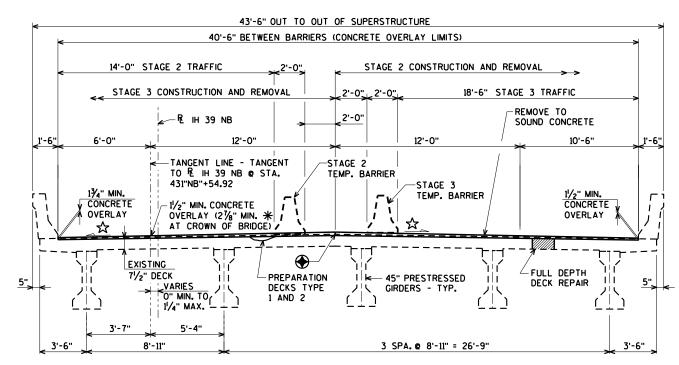
1/29/2015

PLAN

DAN SYDOW

(715)-834-3161





B-39-30

CROSS SECTION THRU BRIDGES

(LOOKING NORTH)

★ NEW CONCRETE OVERLAY SLOPE = 0.02 % CURRENT CONCRETE DECK SLOPE = 0.015 %

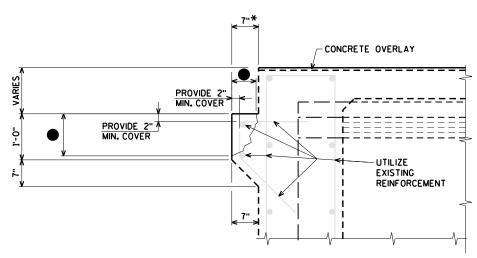
\* THE PROPOSED OVERLAY THICKNESS VARIES FROM A MINIMUM OF  $1^1\!\!/_2$ " AT THE EAST PARAPET TO  $2^7\!\!/_8$ " AT THE CROWN AND  $1^7\!\!/_4$ " AT THE WEST PARAPET. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 23/4".

#### TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	203.0200	REMOVING OLD STRUCTURE STATION 430"NB"+77.19	LS	1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-39-30	LS	1
	210.0100	BACKFILL STRUCTURE	CY	25
	502.0100	CONCRETE MASONRY BRIDGES	CY	5
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	890
	502.5005	MASONRY ANCHOR TYPE L NO. 5 BARS	EACH	10
	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	590
	509.0301	PREPARATION DECKS TYPE 1	SY	52
	509.0302	PREPARATION DECKS TYPE 2	SY	26
	509.0500	CLEANING DECKS	SY	740
	509.1500	CONCRETE SURFACE REPAIR	SF	5
	509.2000	FULL-DEPTH DECK REPAIR	SY	1
Δ	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	62
	509.9050.S	CLEANING PARAPETS	LF	365
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	2
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1
	SPV.0090.01	PAVING NOTCH REPAIR	LF	81
	•	NON-BID ITEMS		
		FILLER	SIZE	½"

△ BID ITEM ALSO INCLUDES CONCRETE FOR: "PREPARATION DECKS TYPE 1" "PREPARATION DECKS TYPE 2" "FULL-DEPTH DECK REPAIR" "PAVING NOTCH REPAIR"

RE-CAULKING PARAPET JOINTS CONSIDERED INCIDENTAL TO CLEANING PARAPETS.



PAVING NOTCH REPAIR

(CONCRETE SURFACE REPAIR)

\* DIMENSION IS TAKEN NORMAL TO SUBSTRUCTURE UNITS.

REMOVE CONCRETE TO SOUND CONCRETE OR AT LEAST 1" BEHIND EXISTING REINFORCEMENT.

ASSOCIATES www.AyresAssociates.com

ARES 3433 Ookwood Hills Parkway Eau Claire, WI 54701

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-39-30 CLS PLANS

LONG. CONST. JOINT (AT CROWN POINT) SEAL WITH CRACK SEALER PER SECTION 502.3.13 OF STD. SPEC.

QUANTITIES & CROSS SECTION

8

JCK

SHEET 2 OF 4

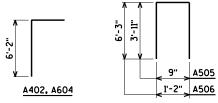
1/28/2015





BAR. NO.	ED BAR	REO'D.	LENGTH	BAR	BUNDLED	SERIES		590" COATED.
BAR	COATE	NO. F	ΓEΝ	BENT	BUN	BAR	LOCATION	
A601	Х	1	11-2				WING	TOP HORIZ B.F.
A402	Х	6	6-11	×			WING	HORIZ. F.F.
A403	Х	4	7-4				WING	HORIZ. F.F.
A604	Х	1	7-0	×			WING	TOP HORIZ. F.F.
A505	Х	5	8-4	×			WING	TOP VERT.
A506	Х	7	13-5	X			WING	TOP VERT.
A507	Х	10	4-2				WING	BOT. VERT. DOWEL BARS
A608	Х	1	8-6				WING	TOP HORIZ. F.F.
A409	Х	7	11-2				WING	HORIZ. B.F.
A410	х	5	6-2				WING	HORIZ. B.F.
A411	х	12	2-0				WING	DOWELS
	Н			$\vdash$	$\vdash$	$\vdash$		

• INCLUDES WEIGHT OF PARAPET BARS. SEE SHEET 4.



- △ 3" MIN. TO 6" MAX., SEE CONCRETE SURFACE DRAIN SDD.
- ## STRIKE OFF AS SHOWN AND LEAVE ROUGH.
- VERTICAL 18" RUBBERIZED MEMBRANE WATERPROOFING
- (a) 18" RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE.

B.F. DENOTES BACK FACE. F.F. DENOTES FRONT FACE.

E.F. DENOTES EACH FACE.

WING 4

DETAILS

BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-39-30 CJM PLANS CK'D. JCK

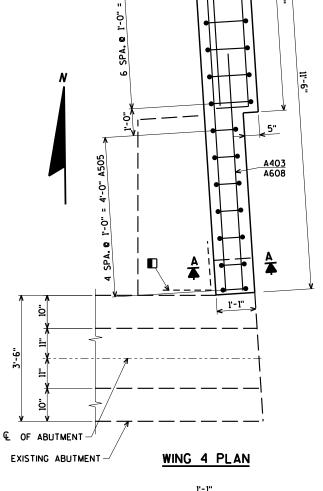
SHEET 3 OF 4

8

ASSOCIATES

3433 Odkwood Hills Parkway
Edu Claire, WI 5470I

www.AyresAssociates.com



SEE SLOPE FACE PARAPET
"B" DETAILS, SHEET 4

A601

<u>| 1'-0"</u>

A505

A507

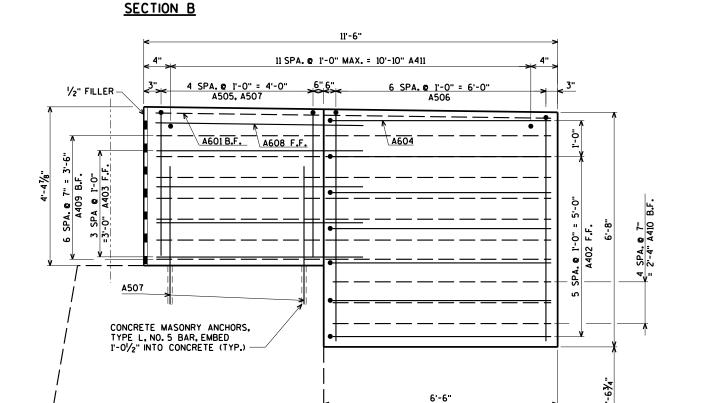
SECTION A

A608

A410

A601 A409

A604 A402



WING 4 ELEVATION

SEE PARAPET DETAILS, SHEET 4.

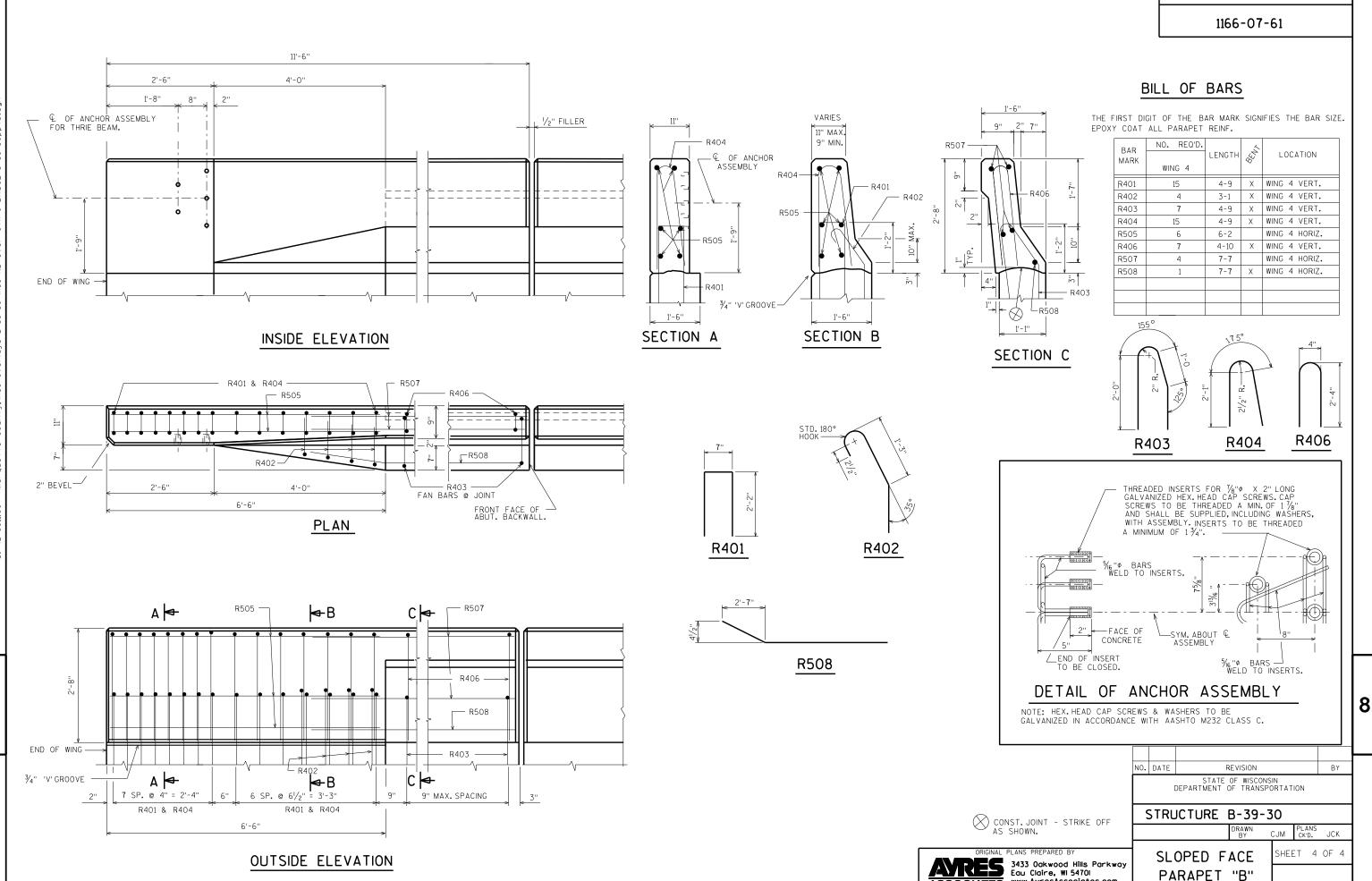
FINISH HORIZONTAL SURFACES NOT COVERED BY PARAPET.

A601

\_1'-0"

SPA. 0 7" 2'-4" A410

EXISTING ABUTMENT -



11/24/2014

ASSOCIATES www.AyresAssociates.com

11/19/2014

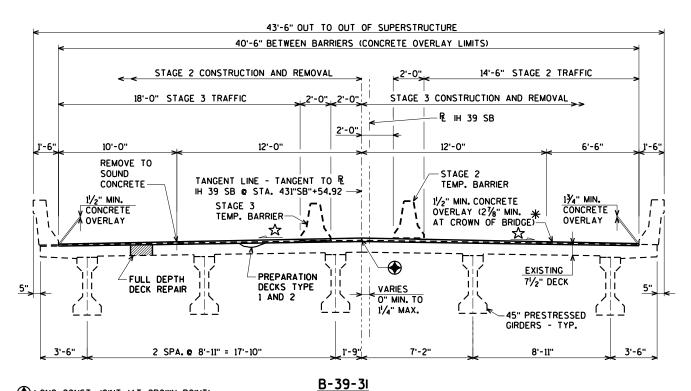
DATE:

PLAN

I.D.

DAN SYDOW

(715)-834-3161



43'-6" OUT TO OUT OF SUPERSTRUCTURE 40'-6" BETWEEN BARRIERS (CONCRETE OVERLAY LIMITS) 14'-0" STAGE 2 TRAFFIC STAGE 2 CONSTRUCTION AND REMOVAL STAGE 3 CONSTRUCTION AND REMOVAL 18'-6" STAGE 3 TRAFFIC -REMOVE TO R IH 39 SB SOUND CONCRETE TANGENT LINE - TANGENT TO R -STAGE 2 H 39 NB @ STA. 431"NB"+54.92 TEMP. BARRIER -STAGE 3 - 1/2" MIN. CONCRETE OVERLAY (27/8" MIN. 米了 AT CROWN OF BRIDGE) 11/2" MIN. CONCRETE , 13/4" MIN. TEMP. BARRIER CONCRETE OVERLAY OVERLAY 公 -FULL DEPTH 71/2" DECK - PREPARATION DECK REPAIR DECKS TYPE GIRDERS - TYP. VARIES 1 AND 2 O" MIN. TO 11/4" MAX. 5'-4" 8'-11' 3 SPA. @ 8'-11" = 26'-9" 3'-6"

B-39-30

LONG. CONST. JOINT (AT CROWN POINT) SEAL WITH CRACK SEALER PER SECTION 502.3.13 OF STD. SPEC.

CROSS SECTION THRU BRIDGES

☆ NEW CONCRETE OVERLAY SLOPE = 0.02 % CURRENT CONCRETE DECK SLOPE = 0.015 % (LOOKING NORTH)

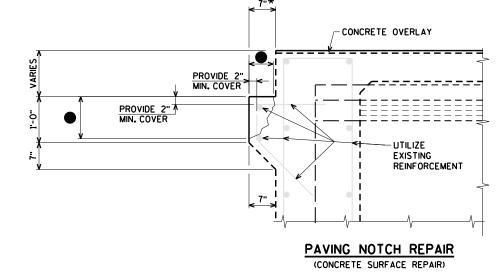
\* THE PROPOSED OVERLAY THICKNESS VARIES FROM A MINIMUM OF 11/2" AT THE WEST PARAPET TO 21/8" AT THE CROWN AND 13/4" AT THE EAST PARAPET. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 21/4".

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	890
	509.0301	PREPARATION DECKS TYPE 1	SY	52
	509.0302	PREPARATION DECKS TYPE 2	SY	26
	509.0500	CLEANING DECKS	SY	740
	509.1500	CONCRETE SURFACE REPAIR	SF	5
	509.2000	FULL-DEPTH DECK REPAIR	SY	1
	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	62
	509.9050.S	CLEANING PARAPETS	LF	375
	SPV.0090.01	PAVING NOTCH REPAIR	LF	81
		NON-BID ITEMS	1	
		FILLER	SIZE	1/2"

TOTAL ESTIMATED QUANTITIES

 $\triangle$  BID ITEM ALSO INCLUDES CONCRETE FOR: "PREPARATION DECKS TYPE 1" "PREPARATION DECKS TYPE 2" "FULL-DEPTH DECK REPAIR" "PAVING NOTCH REPAIR"

RE-CAULKING PARAPET JOINTS CONSIDERED INCIDENTAL TO CLEANING PARAPETS.



\* DIMENSION IS TAKEN NORMAL TO SUBSTRUCTURE UNITS.

REMOVE CONCRETE TO SOUND CONCRETE OR AT LEAST 1" BEHIND EXISTING REINFORCEMENT.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-39-31 CLS PLANS

AYRES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 ASSOCIATES www.AyresAssociates.com

QUANTITIES &

CROSS SECTION

JCK

8

SHEET 2 OF 2

11/24/2014

#### **GENERAL NOTES** DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS. ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY IS CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

REMOVAL LINES NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT AT THE CONCRETE SURFACES. BAR STEEL REINFORCEMENT SHALL BE EMBEDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PREPARATION DECKS TYPE 1. PREPARATION DECKS TYPE 2 AND CONCRETE SURFACE REPAIR AREAS SHALL BE DETERMINED BY THE

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS."

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 11/2" PLACED ABOVE THE DECK SURFACE AFTER "CLEANING DECKS". EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN  $\frac{1}{2}$ ", CONTACT THE STRUCTURES DESIGN SECTION.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE CONCRETE OVERLAY, TOP OF PARAPETS, AND INSIDE FACE OF PARAPETS. PROVIDE COLOR-MATCHED PIGMENTED SEALER ON PARAPETS.

#### DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20 INVENTORY RATING: HS-22 OPFRATING RATING: HS-37 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 220 KIPS

**ULTIMATE DESIGN STRESSES:** 

CONCRETE MASONRY OVERLAY DECKS \_\_\_\_\_

fc = 4,000 p.s.i.

#### TRAFFIC DATA:

IH 39 A.D.T. = 10,000 (2008) R.D.S. = 70 M.P.H.

DOVER COURT

A.D.T. = 400± (2008) R.D.S. = 50 M.P.H.

NO. DATE REVISION ORIGINAL PLANS PREPARED BY

ASSOCIATES 3433 Oakwood Hills Parkway Eau Claire, WI 5470I www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 4/9/15

ACCEPTED William C. Drehen CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-39-32

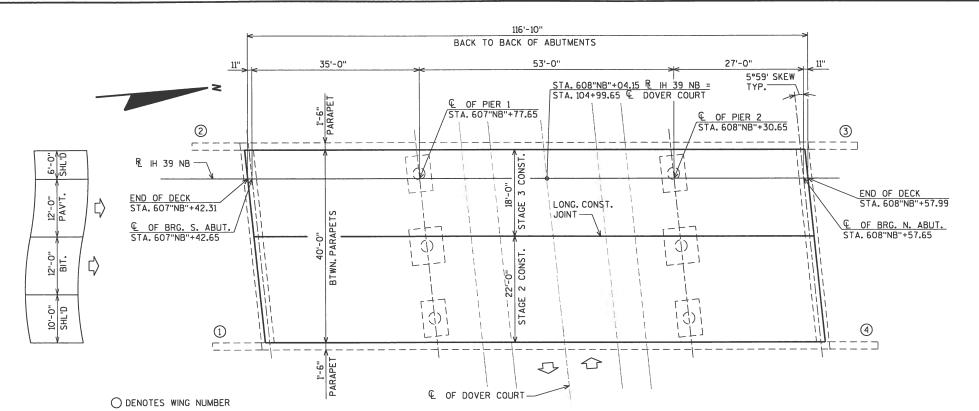
IH 39 NB OVER DOVER COURT TOWN/CITY/VILLAGE NEWTON MARQUETTE

DESIGN SPEC. REHABILITATION N/A DESIGNED DESIGN DRAWN CLS CK'D. BUS

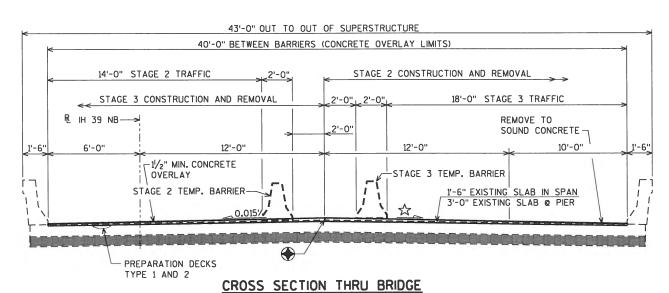
**GENERAL** 

I.D.

PLAN



PLAN 3-SPAN HAUNCHED SLAB BRIDGE



(LOOKING NORTH)

LONG. CONST. JOINT (AT CROWN POINT) SEAL WITH CRACK SEALER PER SECTION 502.3.13 OF STD. SPEC.

0.015% AT STA. 607"NB"+87.28 0.015% UPWARD AT STA. 608"NB"+87.28 (LINEAR TRANSITION)

#### TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	630
	509.0301	PREPARATION DECKS TYPE 1	SY	26
	509.0302	PREPARATION DECKS TYPE 2	SY	13
	509.0500	CLEANING DECKS	SY	520
	509.1500	CONCRETE SURFACE REPAIR	SF	10
Δ	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	31
	509.9050.S	CLEANING PARAPETS	LF	275

△ BID ITEM ALSO INCLUDES CONCRETE FOR: "PREPARATION DECKS TYPE 1" "PREPARATION DECKS TYPE 2"

RE-CAULKING PARAPET JOINTS CONSIDERED INCIDENTAL TO CLEANING PARAPETS.



BRIDGE OFFICE CONTACT: WILLIAM DREHER (608)-266-8489

CONSULTANT CONTACT: DAN SYDOW (715)-834-3161

11/20/2014

CHECKED BY: BACK CHECKED | CORRECTED BY:

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PENTABLE:BReau\_shd\_util.tbl

SHEET 1 OF 1

## GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS.
ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY IS
CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY
OVERLAY DECKS".

REMOVAL LINES NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT AT THE CONCRETE SURFACES.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND CONCRETE SURFACE REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS."

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF  $1/2^{\prime\prime}$  PLACED ABOVE THE DECK SURFACE AFTER "CLEANING DECKS". EXPECTED AVERAGE OVERLAY THICKNESS IS  $2\sqrt[3]{4}$ . IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN  $1/2^{\prime\prime}$ , CONTACT THE STRUCTURES DESIGN SECTION.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP OF PARAPETS AND INSIDE FACE OF PARAPETS. PROVIDE COLOR-MATCHED PIGMENTED SEALER ON PARAPETS.

#### DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-20
OPERATING RATING: HS-34

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 230 KIPS

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY OVERLAY DECKS \_\_\_\_\_\_ f'c = 4,000 p.s.i.

#### TRAFFIC DATA:

<u>IH 39</u>

I.D.

A.D.T. = 10,000 (2008) R.D.S. = 70 M.P.H. CTH Z

A.D.T. = 400± (2008)

R.D.S. = 50 M.P.H.

LONG. CONST. JOINT (AT CROWN POINT)
SEAL WITH CRACK SEALER
PER SECTION 502.3.13 OF STD. SPEC.

30'-0"

© OF PIER 2 /STA. 697"NB"+08.48

11°00' SKEW

3

END OF DECK STA. 697"NB"+38.82

© OF BRG. N. ABUT. STA. 697"NB"+38.48

4

NEW CONCRETE OVERLAY SLOPE = 0.02 % CURRENT CONCRETE DECK SLOPE = 0.015 %

# THE PROPOSED CONCRETE OVERLAY THICKNESS VARIES FROM A MINIMUM OF  $1\frac{1}{2}$ " AT THE EAST PARAPET TO  $2\frac{7}{6}$ " AT THE CROWN AND  $1\frac{7}{2}$ " AT THE WEST ABUTMENT. THE EXPECTED AVERAGE OVERLAY THICKNESS IS  $2\frac{7}{4}$ ".

# CROSS SECTION THRU BRIDGE (LOOKING NORTH)

- PREPARATION DECKS

TYPE 1 AND 2

111/4"

1

14'-0" STAGE 2 TRAFFIC

STAGE 3 CONSTRUCTION AND REMOVAL

-11/2" MIN. CONCRETE

STAGE 2

POLYMER OVERLAY \*

TEMP. BARRIER-

12'-0"

OVERLAY WITH

(2)

R 1H 39 NB -

O DENOTES WING NUMBER

R IH 39 NB---->

6'-0"

CONCRETE

OVERLAY

1'-6"

 $\Box$ 

© OF BRG. S. ABUT. STA. 695"NB"+24.48

30'-0"

NUMBER	BID ITEMS	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	110
509.0301	PREPARATION DECKS TYPE 1	SY	26
509.0302	PREPARATION DECKS TYPE 2	SY	13
509.0500	CLEANING DECKS	SY	515
509.1500	CONCRETE SURFACE REPAIR	SF	5
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	42
509.5100.S	POLYMER OVERLAY	SY	515
509.9050.5	CLEANING PARAPETS	LF	272

TOTAL ESTIMATED QUANTITIES

△ BID ITEM ALSO INCLUDES CONCRETE FOR:
"PREPARATION DECKS TYPE 1"

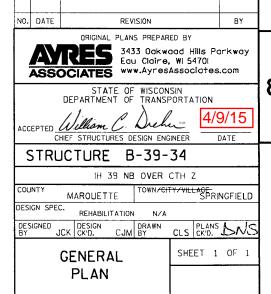
"PREPARATION DECKS TYPE 2"

■ RE-CAULKING PARAPET JOINTS CONSIDERED INCIDENTAL TO CLEANING PARAPETS.

DANIEL N. SYDOW E-38363 WI

BRIDGE OFFICE CONTACT: WILLIAM DREHER (608)-266-8489

CONSULTANT CONTACT: DAN SYDOW (715)-834-3161



1/22/2015

CHECKED BY: BACK CHECKED E CORRECTED BY:

8

115'-10<sup>1</sup>/2"

STA. 696"NB"+81.80 R IH 39 NB =

LONG. CONST.

1

TNIOU

5

PLAN

18'-0" STAGE 3 TRAFFIC

REMOVE TO

SOUND

10'-0"

CONCRETE

11/2" MIN. CONCRETE J

OVERLAY

3-SPAN HAUNCHED SLAB BRIDGE

€ OF CTH Z-

STAGE 2 CONSTRUCTION AND REMOVAL

STAGE 3 TEMP. BARRIER

6" EXISTING SLAB IN SPAN

12'-0"

43'-0" OUT TO OUT OF SUPERSTRUCTURE

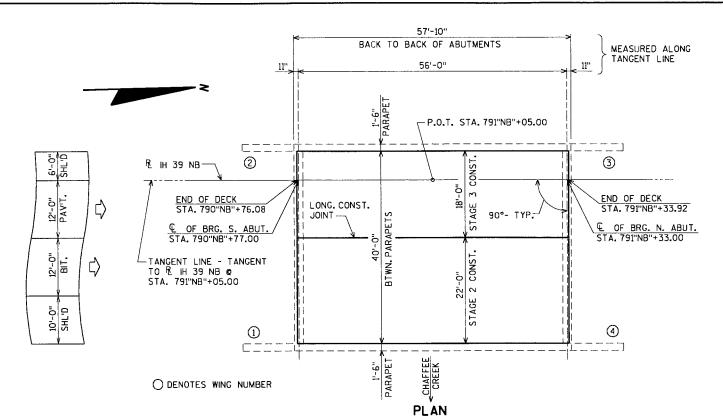
40'-0" BETWEEN BARRIERS (CONCRETE OVERLAY LIMITS)

**⊕** 

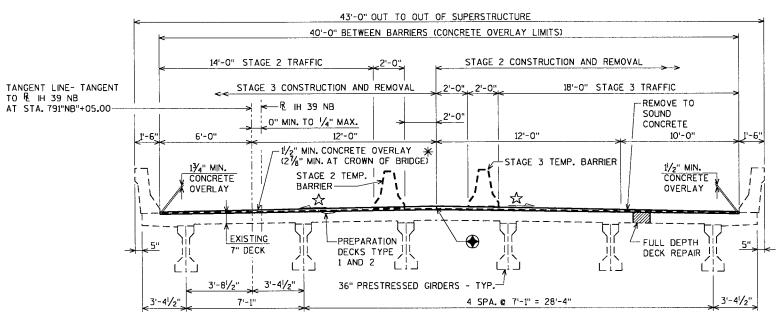
2'-0"

BACK TO BACK OF ABUTMENTS

© OF PIER 1 /STA. 696"NB"+54.48



SINGLE SPAN 36" PRESTRESSED GIRDER BRIDGE



#### CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

#### TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
203.0225.5	DEBRIS CONTAINMENT B-39-36	LS				1
502.3200	PROTECTIVE SURFACE TREATMENT	SY			320	320
509.0301	PREPARATION DECKS TYPE 1	SY			13	13
509.0302	PREPARATION DECKS TYPE 2	SY			6	6
509.0500	CLEANING DECKS	SY			260	260
509.1500	CONCRETE SURFACE REPAIR	SF	5			5
509.2000	FULL-DEPTH DECK REPAIR	SY			1	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY			21	21
509.9050.S	CLEANING PARAPETS	LF			156	156
			T		,	

#### CURVE DATA

IH 39 NB P.I. STA. 105"NB"+18.78 △ = 6°34'30"

D = 0°15'00" R = 22,918.31'T = 1,316.46'

L = 2,630.04E = 37.78'

S.E. = NC

#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS. ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY IS CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

REMOVAL LINES NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT AT THE CONCRETE SURFACES.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, CONCRETE SURFACE REPAIR AND FULL DEPTH DECK REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS."

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF  $1\frac{1}{2}$ " PLACED ABOVE THE DECK SURFACE AFTER "CLEANING DECKS". EXPECTED AVERAGE OVERLAY THICKNESS IS 23/4". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN  $\frac{1}{2}$ ", CONTACT THE STRUCTURES DESIGN SECTION. PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE

CONCRETE OVERLAY, TOP OF PARAPETS, AND INSIDE FACE OF PARAPETS. PROVIDE COLOR-MATCHED PIGMENTED SEALER ON PARAPETS.

#### **DESIGN DATA**

LIVE LOAD:

DESIGN LOADING: HS-20 INVENTORY RATING: HS-15 OPERATING RATING: HS-25

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

**ULTIMATE DESIGN STRESSES:** 

CONCRETE MASONRY OVERLAY DECKS\_  $f_C = 4,000 \text{ p.s.l.}$ 

TRAFFIC DATA:

IH 39

A.D.T. = 10,000 (2008) R.D.S. = 70 M.P.H.

LONG. CONST. JOINT (AT CROWN POINT) SEAL WITH CRACK SEALER PER SECTION 502.3.13 OF STD. SPEC.

★ NEW CONCRETE OVERLAY SLOPE = 0.02 ½ CURRENT CONCRETE DECK SLOPE = 0.015 1/2

★ THE PROPOSED OVERLAY THICKNESS VARIES FROM A MINIMUM OF 11/2" AT THE EAST PARAPET TO 21/8" AT THE CROWN AND 174" AT THE WEST ABUTMENT. THE EXPECTED AVERAGE OVERLAY THICKNESS IS 21/4".

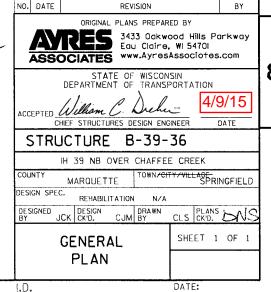
minimum in SCONS **DANIEL N** SYDOW E-38363 WI MILITAS SONAL E 12015

RE-CAULKING PARAPET JOINTS CONSIDERED INCIDENTAL TO CLEANING PARAPETS.

△ BID ITEM ALSO INCLUDES CONCRETE FOR: "PREPARATION DECKS TYPE 1" "PREPARATION DECKS TYPE 2" "FULL-DEPTH DECK REPAIR"

BRIDGE OFFICE CONTACT: WILLIAM DREHER (608)-266-8489

CONSULTANT CONTACT: DAN SYDOW (715)-834-3161



1/21/2015

8



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov